



MEASUREMENT REPORT FCC Part 22, 24 & 27 LTE

Applicant Name:
 Pantech Co Ltd
 Pantech Building, I-2, DMC
 Sangam-dong, Mapo-gu,
 Seoul, KOREA 121-792

Date of Testing:
 February 20-29, 2012
Test Site/Location:
 PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
 0Y1202100187.JCY

| | |
|-------------------|-----------------------|
| FCC ID : | JYCP8010 |
| APPLICANT: | PANTECH CO LTD |

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2; §22; §24; §27
EUT Type: Portable Handset
Model(s): P8010
Test Device Serial No.: *identical prototype* [S/N: EMC]



| LTE Band | Bandwidth (MHz) | Tx Frequency (MHz) | Modulation | Emission Designator | ERP/EIRP | |
|----------|-----------------|--------------------|------------|---------------------|----------------|------------------|
| | | | | | Max. Power (W) | Max. Power (dBm) |
| 17 | 5 | 706.5 - 713.5 | QPSK | 4M59G7D | 0.027 | 14.30 |
| 17 | 5 | 706.5 - 713.5 | 16QAM | 4M59W7D | 0.019 | 12.80 |
| 17 | 10 | 709 - 711 | QPSK | 8M96G7D | 0.026 | 14.10 |
| 17 | 10 | 709 - 711 | 16QAM | 8M96W7D | 0.020 | 13.10 |
| 5 | 5 | 826.5 - 846.5 | QPSK | 4M50G7D | 0.123 | 20.90 |
| 5 | 5 | 826.5 - 846.5 | 16QAM | 4M48W7D | 0.102 | 20.10 |
| 5 | 10 | 829 - 844 | QPSK | 8M94G7D | 0.129 | 21.10 |
| 5 | 10 | 829 - 844 | 16QAM | 8M89W7D | 0.100 | 20.00 |
| 4 | 5 | 1712.5 - 1752.5 | QPSK | 4M52G7D | 0.307 | 24.86 |
| 4 | 5 | 1712.5 - 1752.5 | 16QAM | 4M52W7D | 0.273 | 24.36 |
| 4 | 10 | 1715 - 1750 | QPSK | 8M98G7D | 0.259 | 24.13 |
| 4 | 10 | 1715 - 1750 | 16QAM | 8M98W7D | 0.201 | 23.03 |
| 2 | 5 | 1852.5 - 1907.5 | QPSK | 4M50G7D | 0.302 | 24.79 |
| 2 | 5 | 1852.5 - 1907.5 | 16QAM | 4M50W7D | 0.257 | 24.09 |
| 2 | 10 | 1855 - 1905 | QPSK | 9M00G7D | 0.281 | 24.49 |
| 2 | 10 | 1855 - 1905 | 16QAM | 8M96W7D | 0.208 | 23.19 |

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 §2.947. Test results reported herein relate only to the item(s) tested. 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.

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

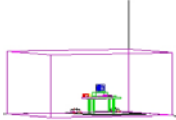


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T A B L E O F C O N T E N T S

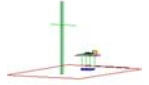
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MEASUREMENT REPORT

FCC Part 22, 24 & 27

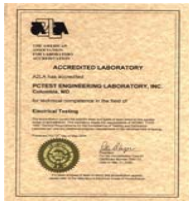


§2.1033 General Information

APPLICANT: Pantech Co Ltd
APPLICANT ADDRESS: Pantech Building, I-2, DMC
 Sangam-dong, Mapo-gu., Seoul, KOREA 121-792
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22; §24; §27
BASE MODEL: P8010
FCC ID: JYCP8010
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: EMC Production Pre-Production Engineering
DATE(S) OF TEST: February 20-29, 2012
TEST REPORT S/N: 0Y1202100187.JCY

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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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) 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 Testing Facility

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern't'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.

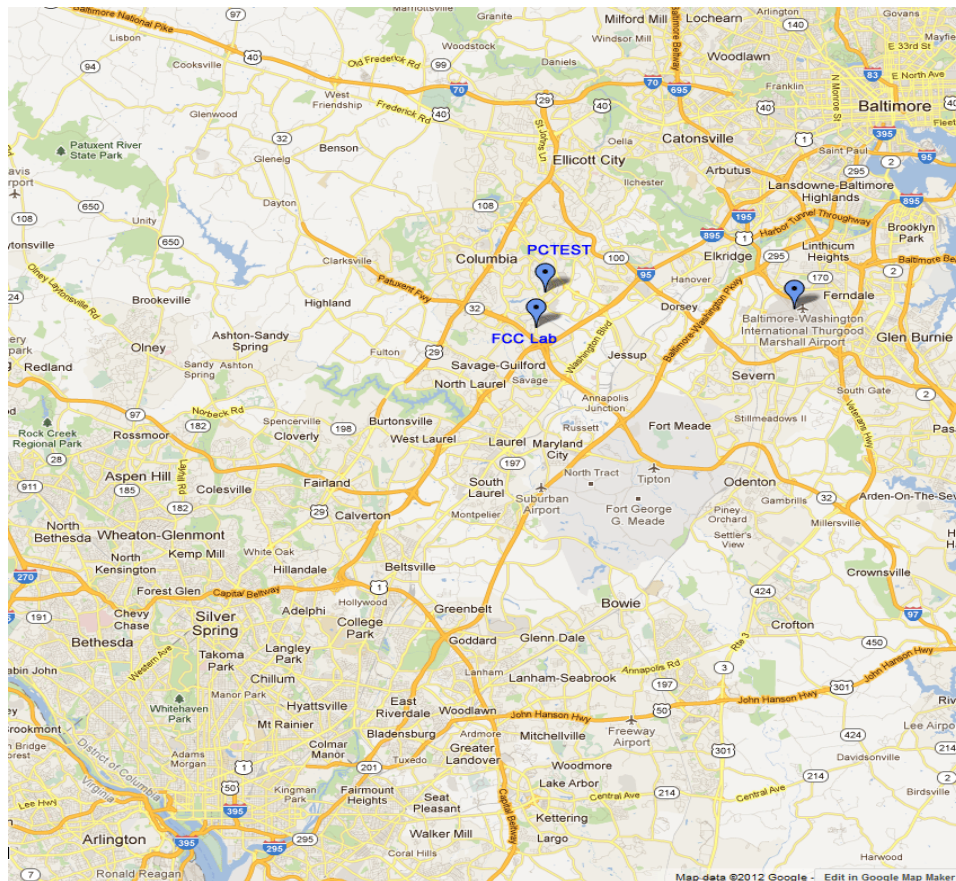


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Pantech Portable Handset FCC ID: JYCP8010**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1900 WCDMA/HSPA, Band 2, 4, 5, 17 LTE, 802.11a/b/g/n WLAN, 802.11a/n UNII, Bluetooth (EDR)

2.3 EMI Suppression Device(s)/Modifications

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

2.4 Labeling Requirements

Per 2.925

The FCC identifier shall be permanently affixed to the equipment and shall be readily visible to the purchaser at the time of purchase..

Per 15.19; Docket 95-19

In addition to this requirement, a device subject to certification shall be labeled as follows:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The measurement procedures described in the document titled “Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards” (ANSI/TIA-603-C-2004) was used in the measurement of the **Pantech Portable Handset** FCC ID: **JYCP8010**.

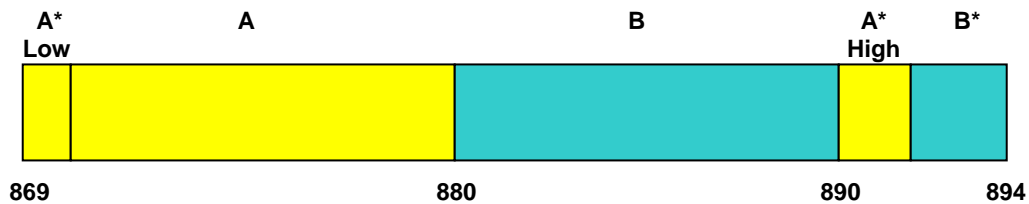
3.2 Block A Frequency Range

§27.5(c)

698-746 MHz band. The following frequencies are available for licensing pursuant to this part in the 698-746 MHz band: (1) Three paired channel blocks of 12 megahertz each are available for assignment as follows:

Block A: 698-704 MHz and 728-734 MHz;
 Block B: 704-710 MHz and 734-740 MHz; and
 Block C: 710-716 MHz and 740-746 MHz.

3.3 Cellular - Base Frequency Blocks



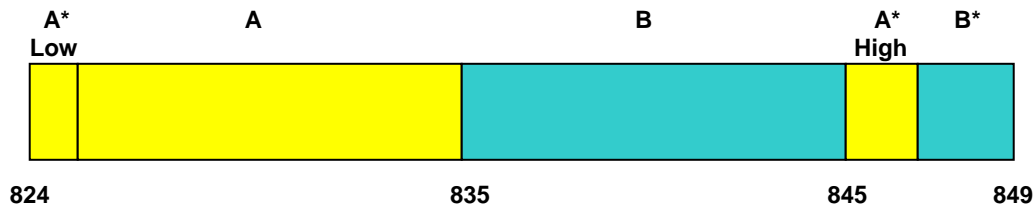
BLOCK 1: 869 – 880 MHz (A* Low + A)

BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 2: 880 – 890 MHz (B)

BLOCK 4: 891.5 – 894 MHz (B*)

3.4 Cellular - Mobile Frequency Blocks





BLOCK 1: 824 – 835 MHz (A* Low + A)

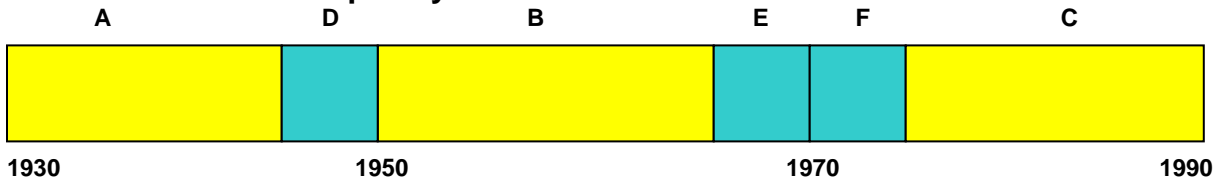
BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B*)

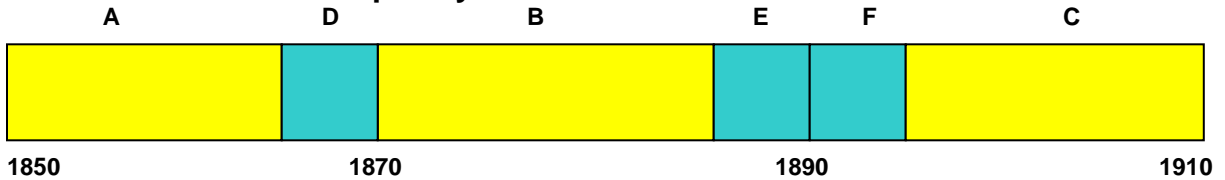
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3.5 PCS - Base Frequency Blocks



- | | |
|------------------------------|------------------------------|
| BLOCK 1: 1930 – 1945 MHz (A) | BLOCK 4: 1965 – 1970 MHz (E) |
| BLOCK 2: 1945 – 1950 MHz (D) | BLOCK 5: 1970 – 1975 MHz (F) |
| BLOCK 3: 1950 – 1965 MHz (B) | BLOCK 6: 1975 – 1990 MHz (C) |

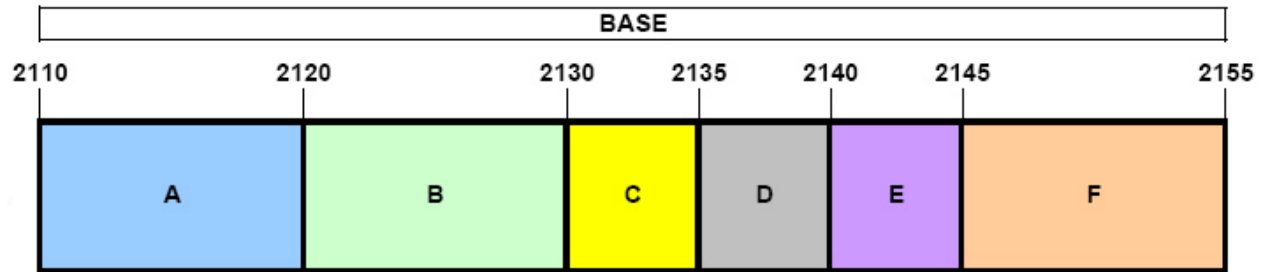
3.6 PCS - Mobile Frequency Blocks



- | | |
|------------------------------|------------------------------|
| BLOCK 1: 1850 – 1865 MHz (A) | BLOCK 4: 1885 – 1890 MHz (E) |
| BLOCK 2: 1865 – 1870 MHz (D) | BLOCK 5: 1890 – 1895 MHz (F) |
| BLOCK 3: 1870 – 1885 MHz (B) | BLOCK 6: 1895 – 1910 MHz (C) |

3.7 AWS - Base Frequency Blocks

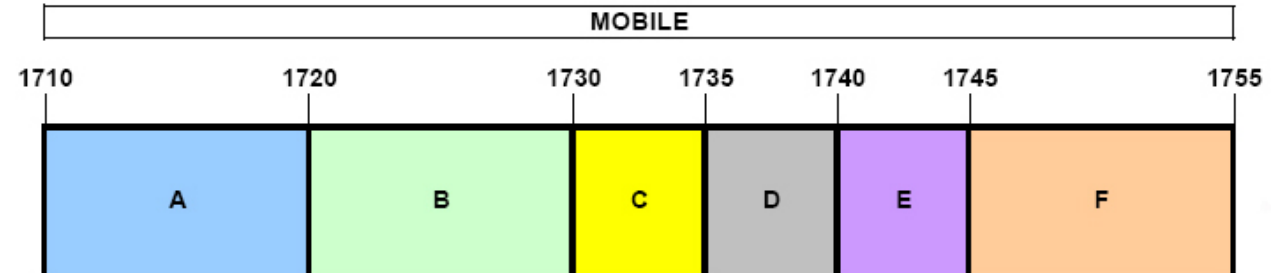
§27.5(h)



- | | |
|------------------------------|------------------------------|
| BLOCK 1: 2110 – 2120 MHz (A) | BLOCK 4: 2135 – 2140 MHz (D) |
| BLOCK 2: 2120 – 2130 MHz (B) | BLOCK 5: 2140 – 2145 MHz (E) |
| BLOCK 3: 2130 – 2135 MHz (C) | BLOCK 6: 2145 – 2155 MHz (F) |

3.8 AWS - Mobile Frequency Blocks

§27.5(h)



- | | |
|------------------------------|------------------------------|
| BLOCK 1: 1710 – 1720 MHz (A) | BLOCK 4: 1735 – 1740 MHz (D) |
| BLOCK 2: 1720 – 1730 MHz (B) | BLOCK 5: 1740 – 1745 MHz (E) |
| BLOCK 3: 1730 – 1735 MHz (C) | BLOCK 6: 1745 – 1755 MHz (F) |

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3.9 Occupied Bandwidth

§2.1049, RSS-Gen (4.6.1)

The implementation of this test is performed by the spectrum analyzer's occupied bandwidth function. The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

3.10 Spurious and Harmonic Emissions at Antenna Terminal



§2.1051, 22.917(a), 24.238(a)(b); RSS-132 (4.5.1), RSS-133 (6.5.1), §27.53(g)(h)

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

3.11 Peak-Average Ratio

§24.232(d), §27.50(d)(5), RSS-133 (6.4)

A peak to average ratio measurement is performed at the conducted port of the EUT. For LTE signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

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3.12 Radiated Power and Radiated Spurious Emissions

§2.1053, §22.913(a)(2), 22.917(a), 24.232(c), 24.238(a), §27.53(g)(h), 27.50(d)(4), 27.50(c)(10), RSS-132(4.5.1.2), RSS-133 (6.5.1)

Radiated spurious emissions are investigated indoors in a semi-anechoic chamber to determine the frequencies producing the worst case emissions. Final measurements for radiated power and radiated spurious emissions are performed on the 3 meter OATS per the guidelines of ANSI/TIA-603-C-2004. The measurement area is situated on an 18 meter x 20 meter galvanized 1/2" hardware cloth as the conducting ground plane. This material is sewn together in sections 4 feet wide and 60 feet long. A total of eighteen sections are required to cover the entire measurement area. Sections are laid across the width of the pad, overlapped 1" and sewn and soldered together at intervals of 3" (7.6 cm.) The terrain of the test site is reasonably flat and level. Power and cable to the test site are buried 18" deep into the ground outside the perimeter of the site. An all-weather non-metallic housing is situated on a 2 x 3 meter area adjacent to the measurement area to house the test equipment. The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Emissions are also investigated with the receive antenna horizontally and vertically polarized. The level of the maximized emission is recorded with the spectrum analyzer using a peak detector with RBW = 1MHz, VBW = 3MHz for emissions greater than 1GHz. For emissions below 1GHz, the spectrum analyzer is set to RBW = 100kHz and VBW = 300kHz.

A half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]}$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power [Watts]})$ specified in 22.917(a), 24.238(a), and 27.53(g)(h).

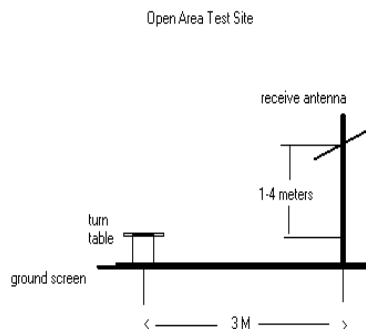


Figure 3-1. Diagram of 3-meter outdoor test range

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3.13 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235, §27.54, RSS-132 (4.3), RSS-133 (6.3)

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A sufficient stabilization period at each temperature shall be used prior to each frequency requirement.



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4.0 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 |
|-----------------|-----------|--|------------|--------------|------------|---------------|
| - | LTX1 | Licensed Transmitter Cable Set | 1/25/2012 | Annual | 1/25/2013 | N/A |
| - | RE1 | Radiated Emissions Cable Set (UHF/EHF) | 6/7/2011 | Annual | 6/7/2012 | N/A |
| - | RE2 | Radiated Emissions Cable Set (VHF/UHF) | 2/13/2012 | Annual | 2/13/2013 | N/A |
| Agilent | 8447D | Broadband Amplifier | 3/17/2011 | Annual | 3/17/2012 | 1937A03348 |
| Agilent | 8449B | (1-26.5GHz) Pre-Amplifier | 2/15/2012 | Annual | 2/15/2013 | 3008A00985 |
| Agilent | E4448A | PSA (3Hz-50GHz) Spectrum Analyzer | 2/15/2012 | Annual | 2/15/2013 | US42510244 |
| Agilent | E8257D | (250kHz-20GHz) Signal Generator | 4/8/2011 | Annual | 4/8/2012 | MY45470194 |
| 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 |
| Emco | 3115 | Horn Antenna (1-18GHz) | 4/8/2010 | Biennial | 4/8/2012 | 9205-3874 |
| Espec | ESX-2CA | Environmental Chamber | 4/21/2011 | Annual | 4/21/2012 | 17620 |
| ETS Lindgren | 3117 | 1-18 GHz DRG Horn (Medium) | 7/22/2011 | Annual | 7/22/2012 | 125518 |
| ETS Lindgren | 3160-09 | 18-26.5 GHz Standard Gain Horn | 5/31/2011 | Annual | 5/31/2012 | 135427 |
| ETS Lindgren | 3164-08 | Quad Ridge Horn Antenna | 10/1/2010 | Biennial | 10/1/2012 | 128337 |
| Mini-Circuits | VHF-1300+ | High Pass Filter | 2/7/2012 | Annual | 2/7/2013 | 30716 |
| Mini-Circuits | VHF-1200+ | High Pass Filter | 1/15/2012 | Annual | 1/15/2013 | 30923 |
| Mini-Circuits | VHF-3100+ | High Pass Filter | 1/15/2012 | Annual | 1/15/2013 | 30841 |
| Pasternack | PE2208-6 | Bidirectional Coupler | 6/3/2011 | Annual | 6/3/2012 | N/A |
| Rohde & Schwarz | CMW500 | LTE Radio Communication Tester | 8/5/2011 | Annual | 8/5/2012 | 112347 |
| Rohde & Schwarz | RS-PR18 | 1-18 GHz Pre-Amplifier | 6/9/2011 | Annual | 6/9/2012 | 100071 |
| Rohde & Schwarz | RS-PR26 | 18-26.5 GHz Pre-Amplifier | 6/9/2011 | Annual | 6/9/2012 | 100040 |
| Rohde & Schwarz | ESU26 | EMI Test Receiver | 4/27/2011 | Annual | 4/27/2012 | 100342 |
| Schwarzbeck | UHA 9105 | Dipole Antenna (400 - 1GHz) Rx | 11/14/2011 | Biennial | 11/14/2013 | 9105-2404 |
| Schwarzbeck | UHA 9105 | Dipole Antenna (400 - 1GHz) Tx | 11/14/2011 | Biennial | 11/14/2013 | 9105-2403 |
| Sunol | JB5 | Bi-Log Antenna (30M - 5GHz) | 1/26/2012 | Biennial | 1/26/2014 | A051107 |
| Sunol | DRH-118 | Horn Antenna (1-18 GHz) | 6/17/2011 | Biennial | 6/17/2013 | A042511 |

Table 4-1. Test Equipment

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
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5.0 SAMPLE CALCULATIONS

Emission Designator

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz
 G = Phase Modulation
 7 = Quantized/Digital Info
 D = Amplitude/Angle Modulated

16QAM Modulation


Emission Designator = 8M45W7D

LTE BW = 8.45 MHz
 W = Amplitude/Angle Modulated
 7 = Quantized/Digital Info
 D = Combination (Audio/Data)

Spurious Radiated Emission – LTE Band

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80).

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
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6.0 TEST RESULTS

6.1 Summary



Company Name: Pantech Co Ltd
 FCC ID: JYCP8010
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE

| FCC Part Section(s) | RSS Section(s) | Test Description | Test Limit | Test Condition | Result | Reference |
|---|-------------------------------------|--|--|----------------|--------|------------------------------|
| TRANSMITTER MODE (TX) | | | | | | |
| 2.1049 | RSS-Gen (4.6.1) RSS-133 (2.3) | Occupied Bandwidth | N/A | CONDUCTED | PASS | Section 7.0, 8.0, 9.0, 10.0 |
| 2.1051, 22.917(a), 24.238(a), 27.53(g)(h) | RSS-133 (6.5.1) | Band Edge / Conducted Spurious Emissions | < 43 + 10log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions | | PASS | Section 7.0, 8.0, 9.0, 10.0 |
| 24.232(d), 27.50(d)(5) | RSS-133 (6.4) | Peak-Average Ratio | < 13 dB | | PASS | Section 9.0, 10.0 |
| 2.1046 | RSS-132 (4.4) RSS-133 (4.1) | Transmitter Conducted Output Power | N/A | | PASS | See RF Exposure Report |
| 22.913(a)(2) | RSS-132 (4.4) [SRSP-503(5.1.3)] | Effective Radiated Power (Band 5) | < 7 Watts max. ERP | RADIATED | PASS | Section 6.2 |
| 27.50(c)(10) | | Effective Radiated Power (Band 17) | < 3 Watts max. ERP | | PASS | Section 6.2 |
| 24.232(c) | RSS-133 (6.4) [SRSP-510 (5.1.2)] | Equivalent Isotropic Radiated Power (Band 2) | < 2 Watts max. EIRP | | PASS | Section 6.3 |
| 27.50(d)(4) | | Equivalent Isotropic Radiated Power (Band 4) | < 1 Watts max. EIRP | | PASS | Section 6.3 |
| 2.1053, 27.53(g)(h), 22.917(a), 24.238(a) | RSS-132 (4.5.1) RSS-133 (6.5.1) | Undesirable Emissions | < 43 + 10log ₁₀ (P[Watts]) for all out-of-band emissions | | PASS | Section 6.4, 6.5, 6.6, 6.7 |
| 2.1055, 27.54, 22.355, 24.235 | RSS-132 (4.3) RSS-133 (6.3) | Frequency Stability | < 2.5 ppm | | PASS | Section 6.8, 6.9, 6.10, 6.11 |

Table 6-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in Sections 7, 8, 9, and 10 were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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6.2 Effective Radiated Power (ERP)

§22.913(a)(2), §27.50(c)(10)

| | Freq [MHz] | BW [MHz] | Mod. | RB Size / Offset | Battery | Measured Level [dBm] | Substitute Level [dBm] | Antenna Gain [dBd] | Pol [H/V] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-------------|------------|----------|--------|------------------|----------|----------------------|------------------------|--------------------|-----------|-----------|-------------|-----------------|-------------|
| Band 17 LTE | 706.50 | 5 | QPSK | 1 / 0 | Standard | -22.30 | 14.30 | 0.00 | H | 14.30 | 0.027 | 34.77 | -20.47 |
| | 710.00 | 5 | QPSK | 1 / 0 | Standard | -22.70 | 13.90 | 0.00 | H | 13.90 | 0.025 | 34.77 | -20.87 |
| | 713.50 | 5 | QPSK | 1 / 0 | Standard | -23.80 | 12.80 | 0.00 | H | 12.80 | 0.019 | 34.77 | -21.97 |
| | 706.50 | 5 | 16-QAM | 1 / 0 | Standard | -23.80 | 12.80 | 0.00 | H | 12.80 | 0.019 | 34.77 | -21.97 |
| | 710.00 | 5 | 16-QAM | 1 / 0 | Standard | -24.00 | 12.60 | 0.00 | H | 12.60 | 0.018 | 34.77 | -22.17 |
| | 713.50 | 5 | 16-QAM | 1 / 0 | Standard | -24.90 | 11.70 | 0.00 | H | 11.70 | 0.015 | 34.77 | -23.07 |
| | 709.00 | 10 | QPSK | 1 / 0 | Standard | -22.50 | 14.10 | 0.00 | H | 14.10 | 0.026 | 34.77 | -20.67 |
| | 710.00 | 10 | QPSK | 1 / 0 | Standard | -22.70 | 13.90 | 0.00 | H | 13.90 | 0.025 | 34.77 | -20.87 |
| | 711.00 | 10 | QPSK | 1 / 0 | Standard | -23.50 | 13.10 | 0.00 | H | 13.10 | 0.020 | 34.77 | -21.67 |
| | 709.00 | 10 | 16-QAM | 1 / 0 | Standard | -23.50 | 13.10 | 0.00 | H | 13.10 | 0.020 | 34.77 | -21.67 |
| | 710.00 | 10 | 16-QAM | 1 / 0 | Standard | -23.80 | 12.80 | 0.00 | H | 12.80 | 0.019 | 34.77 | -21.97 |
| 711.00 | 10 | 16-QAM | 1 / 0 | Standard | -24.60 | 12.00 | 0.00 | H | 12.00 | 0.016 | 34.77 | -22.77 | |



Table 6-2. ERP Data (Band 17)

| | Freq [MHz] | BW [MHz] | Mod. | RB Size / Offset | Battery | Measured Level [dBm] | Substitute Level [dBm] | Antenna Gain [dBd] | Pol [H/V] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|------------|------------|----------|--------|------------------|----------|----------------------|------------------------|--------------------|-----------|-----------|-------------|-----------------|-------------|
| Band 5 LTE | 826.50 | 5 | QPSK | 1 / 24 | Standard | -18.80 | 18.60 | 0.00 | H | 18.60 | 0.072 | 38.45 | -19.85 |
| | 836.50 | 5 | QPSK | 1 / 24 | Standard | -16.70 | 20.70 | 0.00 | H | 20.70 | 0.117 | 38.45 | -17.75 |
| | 846.50 | 5 | QPSK | 1 / 24 | Standard | -16.50 | 20.90 | 0.00 | H | 20.90 | 0.123 | 38.45 | -17.55 |
| | 826.50 | 5 | 16-QAM | 1 / 24 | Standard | -19.90 | 17.50 | 0.00 | H | 17.50 | 0.056 | 38.45 | -20.95 |
| | 836.50 | 5 | 16-QAM | 1 / 24 | Standard | -17.80 | 19.60 | 0.00 | H | 19.60 | 0.091 | 38.45 | -18.85 |
| | 846.50 | 5 | 16-QAM | 1 / 24 | Standard | -17.30 | 20.10 | 0.00 | H | 20.10 | 0.102 | 38.45 | -18.35 |
| | 829.00 | 10 | QPSK | 1 / 49 | Standard | -17.70 | 19.70 | 0.00 | H | 19.70 | 0.093 | 38.45 | -18.75 |
| | 836.50 | 10 | QPSK | 1 / 49 | Standard | -16.30 | 21.10 | 0.00 | H | 21.10 | 0.129 | 38.45 | -17.35 |
| | 844.00 | 10 | QPSK | 1 / 49 | Standard | -16.60 | 20.80 | 0.00 | H | 20.80 | 0.120 | 38.45 | -17.65 |
| | 829.00 | 10 | 16-QAM | 1 / 49 | Standard | -19.30 | 18.10 | 0.00 | H | 18.10 | 0.065 | 38.45 | -20.35 |
| | 836.50 | 10 | 16-QAM | 1 / 49 | Standard | -17.40 | 20.00 | 0.00 | H | 20.00 | 0.100 | 38.45 | -18.45 |
| | 844.00 | 10 | 16-QAM | 1 / 49 | Standard | -17.90 | 19.50 | 0.00 | H | 19.50 | 0.089 | 38.45 | -18.95 |

Table 6-3. ERP Data (Band 5)

NOTES:

1. This device was tested under all bandwidths, and RB configurations, and modulations. In Band 17 LTE, the highest power was found in QPSK modulation with RB size = 1 and RB offset = 0. In Band 5 LTE, the highest power was found in QPSK modulation with RB size = 1 and RB offset equal to the maximum allowed.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
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6.3 Equivalent Isotropic Radiated Power (EIRP)

§27.50(d)(4), §24.232(c)

| | Freq [MHz] | BW [MHz] | Mod. | RB Size / Offset | Battery | Measured Level [dBm] | Substitute Level [dBm] | Antenna Gain [dBi] | Pol [H/V] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|------------|------------|----------|--------|------------------|----------|----------------------|------------------------|--------------------|-----------|------------|--------------|------------------|-------------|
| Band 4 LTE | 1712.50 | 5 | QPSK | 1 / 0 | Standard | -17.70 | 14.40 | 8.81 | H | 23.21 | 0.209 | 30.00 | -6.79 |
| | 1732.50 | 5 | QPSK | 1 / 0 | Standard | -16.00 | 16.10 | 8.76 | H | 24.86 | 0.307 | 30.00 | -5.14 |
| | 1752.50 | 5 | QPSK | 1 / 0 | Standard | -16.70 | 15.40 | 8.72 | H | 24.12 | 0.258 | 30.00 | -5.88 |
| | 1712.50 | 5 | 16-QAM | 1 / 0 | Standard | -18.40 | 13.70 | 8.81 | H | 22.51 | 0.178 | 30.00 | -7.49 |
| | 1732.50 | 5 | 16-QAM | 1 / 0 | Standard | -16.50 | 15.60 | 8.76 | H | 24.36 | 0.273 | 30.00 | -5.64 |
| | 1752.50 | 5 | 16-QAM | 1 / 0 | Standard | -17.90 | 14.20 | 8.72 | H | 22.92 | 0.196 | 30.00 | -7.08 |
| | 1715.00 | 10 | QPSK | 1 / 0 | Standard | -21.40 | 10.70 | 8.80 | H | 19.50 | 0.089 | 30.00 | -10.50 |
| | 1732.50 | 10 | QPSK | 1 / 0 | Standard | -20.20 | 11.90 | 8.76 | H | 20.66 | 0.117 | 30.00 | -9.34 |
| | 1750.00 | 10 | QPSK | 1 / 0 | Standard | -16.70 | 15.40 | 8.73 | H | 24.13 | 0.259 | 30.00 | -5.87 |
| | 1715.00 | 10 | 16-QAM | 1 / 0 | Standard | -21.20 | 10.90 | 8.80 | H | 19.70 | 0.093 | 30.00 | -10.30 |
| | 1732.50 | 10 | 16-QAM | 1 / 0 | Standard | -20.90 | 11.20 | 8.76 | H | 19.96 | 0.099 | 30.00 | -10.04 |
| | 1750.00 | 10 | 16-QAM | 1 / 0 | Standard | -17.80 | 14.30 | 8.73 | H | 23.03 | 0.201 | 30.00 | -6.97 |


Table 6-4. EIRP Data (Band 4)

| | Freq [MHz] | BW [MHz] | Mod. | RB Size / Offset | Battery | Measured Level [dBm] | Substitute Level [dBm] | Antenna Gain [dBi] | Pol [H/V] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|------------|------------|----------|--------|------------------|----------|----------------------|------------------------|--------------------|-----------|------------|--------------|------------------|-------------|
| Band 2 LTE | 1852.50 | 5 | QPSK | 1 / 0 | Standard | -16.30 | 16.20 | 8.59 | H | 24.79 | 0.302 | 33.01 | -8.22 |
| | 1880.00 | 5 | QPSK | 1 / 0 | Standard | -16.90 | 15.60 | 8.58 | H | 24.18 | 0.262 | 33.01 | -8.83 |
| | 1907.50 | 5 | QPSK | 1 / 0 | Standard | -17.60 | 14.90 | 8.60 | H | 23.50 | 0.224 | 33.01 | -9.51 |
| | 1852.50 | 5 | 16-QAM | 1 / 0 | Standard | -17.00 | 15.50 | 8.59 | H | 24.09 | 0.257 | 33.01 | -8.92 |
| | 1880.00 | 5 | 16-QAM | 1 / 0 | Standard | -17.90 | 14.60 | 8.58 | H | 23.18 | 0.208 | 33.01 | -9.83 |
| | 1907.50 | 5 | 16-QAM | 1 / 0 | Standard | -18.00 | 14.50 | 8.60 | H | 23.10 | 0.204 | 33.01 | -9.91 |
| | 1855.00 | 10 | QPSK | 1 / 0 | Standard | -16.90 | 15.60 | 8.59 | H | 24.19 | 0.263 | 33.01 | -8.82 |
| | 1880.00 | 10 | QPSK | 1 / 0 | Standard | -16.80 | 15.70 | 8.58 | H | 24.28 | 0.268 | 33.01 | -8.73 |
| | 1905.00 | 10 | QPSK | 1 / 0 | Standard | -16.60 | 15.90 | 8.59 | H | 24.49 | 0.281 | 33.01 | -8.52 |
| | 1855.00 | 10 | 16-QAM | 1 / 0 | Standard | -18.00 | 14.50 | 8.59 | H | 23.09 | 0.204 | 33.01 | -9.92 |
| | 1880.00 | 10 | 16-QAM | 1 / 0 | Standard | -17.90 | 14.60 | 8.58 | H | 23.18 | 0.208 | 33.01 | -9.83 |
| | 1905.00 | 10 | 16-QAM | 1 / 0 | Standard | -17.90 | 14.60 | 8.59 | H | 23.19 | 0.208 | 33.01 | -9.82 |

Table 6-5. EIRP Data (Band 2)

NOTES:

1. This device was tested under all bandwidths, and RB configurations, and modulations. In Band 4 LTE, the highest power was found in QPSK modulation with RB size = 1 and RB offset = 0. In Band 5 LTE, the highest power was also found in QPSK modulation with RB size = 1 and RB offset = 0.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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6.4 Band 17 Radiated Spurious Emissions §2.1053, §27.53(g)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 706.50 MHz
 MEASURED OUTPUT POWER: 14.30 dBm = 0.027 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 27.30 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1413.00 | -54.18 | 3.63 | -50.55 | H | 64.9 |
| 2119.50 | -63.79 | 3.90 | -59.89 | H | 74.2 |
| 2826.00 | -92.55 | 5.01 | -87.54 | H | 101.8 |
| 3532.50 | -92.41 | 6.25 | -86.16 | H | 100.5 |
| 4239.00 | -91.64 | 7.23 | -84.40 | H | 98.7 |
| 4945.50 | -90.61 | 7.86 | -82.74 | H | 97.0 |

Table 6-6. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 17 Radiated Spurious Measurements (continued)
§2.1053, §27.53(g)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 710.00 MHz
 MEASURED OUTPUT POWER: 13.90 dBm = 0.025 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 26.90 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1420.00 | -65.62 | 3.68 | -61.94 | H | 75.8 |
| 2130.00 | -63.29 | 3.92 | -59.37 | H | 73.3 |
| 2840.00 | -92.54 | 5.02 | -87.52 | H | 101.4 |
| 3550.00 | -92.34 | 6.25 | -86.09 | H | 100.0 |
| 4260.00 | -91.61 | 7.25 | -84.36 | H | 98.3 |
| 4970.00 | -90.59 | 7.90 | -82.69 | H | 96.6 |

Table 6-7. Radiated Spurious Data- 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 17 Radiated Spurious Measurements (continued)
§2.1053, §27.53(g)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 713.50 MHz
 MEASURED OUTPUT POWER: 12.80 dBm = 0.019 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 25.80 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1427.00 | -64.26 | 3.73 | -60.53 | H | 73.3 |
| 2140.50 | -62.89 | 3.94 | -58.95 | H | 71.7 |
| 2854.00 | -92.52 | 5.04 | -87.49 | H | 100.3 |
| 3567.50 | -92.26 | 6.25 | -86.01 | H | 98.8 |
| 4281.00 | -91.56 | 7.25 | -84.31 | H | 97.1 |
| 4994.50 | -90.61 | 7.94 | -82.67 | H | 95.5 |

Table 6-8. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 17 Radiated Spurious Measurements (continued)
§2.1053, §27.53(g)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 709.00 MHz
 MEASURED OUTPUT POWER: 14.10 dBm = 0.026 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 27.10 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1418.00 | -63.28 | 3.63 | -59.65 | H | 73.8 |
| 2127.00 | -62.49 | 3.90 | -58.59 | H | 72.7 |
| 2836.00 | -92.55 | 5.01 | -87.54 | H | 101.6 |
| 3545.00 | -92.41 | 6.25 | -86.16 | H | 100.3 |
| 4254.00 | -91.64 | 7.23 | -84.40 | H | 98.5 |
| 4963.00 | -90.61 | 7.86 | -82.74 | H | 96.8 |

Table 6-9. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 17 Radiated Spurious Measurements (continued)
§2.1053, §27.53(g)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 710.00 MHz
 MEASURED OUTPUT POWER: 13.90 dBm = 0.025 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 26.90 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1420.00 | -67.92 | 3.68 | -64.24 | H | 78.1 |
| 2130.00 | -62.59 | 3.92 | -58.67 | H | 72.6 |
| 2840.00 | -92.54 | 5.02 | -87.52 | H | 101.4 |
| 3550.00 | -92.34 | 6.25 | -86.09 | H | 100.0 |
| 4260.00 | -91.61 | 7.25 | -84.36 | H | 98.3 |
| 4970.00 | -90.59 | 7.90 | -82.69 | H | 96.6 |

Table 6-10. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 17 Radiated Spurious Measurements (continued)
§2.1053, §27.53(g)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 711.00 MHz
 MEASURED OUTPUT POWER: 13.10 dBm = 0.020 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 26.10 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1422.00 | -66.66 | 3.73 | -62.93 | H | 76.0 |
| 2133.00 | -62.19 | 3.94 | -58.25 | H | 71.3 |
| 2844.00 | -92.52 | 5.04 | -87.49 | H | 100.6 |
| 3555.00 | -92.26 | 6.25 | -86.01 | H | 99.1 |
| 4266.00 | -91.56 | 7.25 | -84.31 | H | 97.4 |
| 4977.00 | -90.61 | 7.94 | -82.67 | H | 95.8 |

Table 6-11. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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6.5 Band 5 Radiated Spurious Emissions

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 826.50 MHz
 MEASURED OUTPUT POWER: 18.60 dBm = 0.072 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 31.60 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1653.00 | -42.33 | 2.55 | -39.78 | H | 58.4 |
| 2479.50 | -54.22 | 2.86 | -51.36 | H | 70.0 |
| 3306.00 | -91.78 | 5.48 | -86.30 | H | 104.9 |
| 4132.50 | -91.58 | 7.07 | -84.51 | H | 103.1 |
| 4959.00 | -90.60 | 7.89 | -82.71 | H | 101.3 |
| 5785.50 | -89.04 | 8.52 | -80.52 | H | 99.1 |

Table 6-12. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 24) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 5 Radiated Spurious Measurements (continued)
§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 836.50 MHz
 MEASURED OUTPUT POWER: 20.70 dBm = 0.117 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.70 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1673.00 | -43.79 | 2.34 | -41.45 | H | 62.1 |
| 2509.50 | -33.29 | 2.84 | -30.46 | H | 51.2 |
| 3346.00 | -91.94 | 5.64 | -86.30 | H | 107.0 |
| 4182.50 | -91.62 | 7.14 | -84.48 | H | 105.2 |
| 5019.00 | -90.59 | 7.97 | -82.62 | H | 103.3 |
| 5855.50 | -88.73 | 8.46 | -80.26 | H | 101.0 |

Table 6-13. Radiated Spurious Data- 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 24) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 5 Radiated Spurious Measurements (continued)
§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 846.50 MHz
 MEASURED OUTPUT POWER: 20.90 dBm = 0.123 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.90 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1693.00 | -33.26 | 2.13 | -31.13 | H | 52.0 |
| 2539.50 | -35.47 | 3.11 | -32.36 | H | 53.3 |
| 3386.00 | -61.92 | 5.80 | -56.12 | H | 77.0 |
| 4232.50 | -91.64 | 7.22 | -84.41 | H | 105.3 |
| 5079.00 | -90.46 | 8.01 | -82.44 | H | 103.3 |
| 5925.50 | -88.37 | 8.41 | -79.97 | H | 100.9 |

Table 6-14. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 24) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 5 Radiated Spurious Measurements (continued)
§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 829.00 MHz
 MEASURED OUTPUT POWER: 19.70 dBm = 0.093 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.70 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1658.00 | -43.73 | 2.55 | -41.18 | H | 60.9 |
| 2487.00 | -44.02 | 2.86 | -41.16 | H | 60.9 |
| 3316.00 | -91.78 | 5.48 | -86.30 | H | 106.0 |
| 4145.00 | -91.58 | 7.07 | -84.51 | H | 104.2 |
| 4974.00 | -90.60 | 7.89 | -82.71 | H | 102.4 |
| 5803.00 | -89.04 | 8.52 | -80.52 | H | 100.2 |

Table 6-15. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 49) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 5 Radiated Spurious Measurements (continued)
§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.50 MHz
 MEASURED OUTPUT POWER: 21.10 dBm = 0.129 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 34.10 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1673.00 | -45.69 | 2.34 | -43.35 | H | 64.4 |
| 2509.50 | -43.09 | 2.84 | -40.26 | H | 61.4 |
| 3346.00 | -91.94 | 5.64 | -86.30 | H | 107.4 |
| 4182.50 | -91.62 | 7.14 | -84.48 | H | 105.6 |
| 5019.00 | -90.59 | 7.97 | -82.62 | H | 103.7 |
| 5855.50 | -88.73 | 8.46 | -80.26 | H | 101.4 |

Table 6-16. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 49) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 5 Radiated Spurious Measurements (continued)
§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 844.00 MHz
 MEASURED OUTPUT POWER: 20.80 dBm = 0.120 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.80 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1688.00 | -31.56 | 2.13 | -29.43 | H | 50.2 |
| 2532.00 | -37.17 | 3.11 | -34.06 | H | 54.9 |
| 3376.00 | -92.12 | 5.80 | -86.31 | H | 107.1 |
| 4220.00 | -91.64 | 7.22 | -84.41 | H | 105.2 |
| 5064.00 | -90.46 | 8.01 | -82.44 | H | 103.2 |
| 5908.00 | -88.37 | 8.41 | -79.97 | H | 100.8 |

Table 6-17. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 49) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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6.6 Band 4 Radiated Spurious Emissions §2.1053, §27.53(h)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1712.50 MHz
 MEASURED OUTPUT POWER: 23.21 dBm = 0.209 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.21 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3425.00 | -53.26 | 9.35 | -43.91 | H | 67.1 |
| 5137.50 | -53.39 | 10.96 | -42.44 | H | 65.6 |
| 6850.00 | -85.66 | 10.52 | -75.14 | H | 98.3 |
| 8562.50 | -83.05 | 11.07 | -71.98 | H | 95.2 |
| 10275.00 | -82.38 | 12.47 | -69.90 | H | 93.1 |
| 11987.50 | -78.35 | 12.42 | -65.93 | H | 89.1 |

Table 6-18. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 4 Radiated Spurious Measurements (continued)
§2.1053, §27.53(h)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 1732.50 MHz
 MEASURED OUTPUT POWER: 24.86 dBm = 0.307 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.86 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3465.00 | -51.92 | 9.47 | -42.45 | H | 67.3 |
| 5197.50 | -51.32 | 10.87 | -40.45 | H | 65.3 |
| 6930.00 | -85.81 | 10.68 | -75.13 | H | 100.0 |
| 8662.50 | -83.01 | 11.25 | -71.77 | H | 96.6 |
| 10395.00 | -82.36 | 12.52 | -69.83 | H | 94.7 |
| 12127.50 | -77.70 | 12.28 | -65.42 | H | 90.3 |

Table 6-19. Radiated Spurious Data- 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 4 Radiated Spurious Measurements (continued)
§2.1053, §27.53(h)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1752.50 MHz
 MEASURED OUTPUT POWER: 24.12 dBm = 0.258 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.12 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3505.00 | -53.87 | 9.58 | -44.29 | H | 68.4 |
| 5257.50 | -53.15 | 10.57 | -42.57 | H | 66.7 |
| 7010.00 | -85.99 | 10.86 | -75.13 | H | 99.3 |
| 8762.50 | -83.15 | 11.50 | -71.65 | H | 95.8 |
| 10515.00 | -82.27 | 12.55 | -69.72 | H | 93.8 |
| 12267.50 | -77.56 | 12.38 | -65.18 | H | 89.3 |

Table 6-20. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 4 Radiated Spurious Measurements (continued)
§2.1053, §27.53(h)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 1715.00 MHz
 MEASURED OUTPUT POWER: 19.50 dBm = 0.089 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 32.50 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3430.00 | -52.66 | 9.35 | -43.31 | H | 62.8 |
| 5145.00 | -52.19 | 10.96 | -41.24 | H | 60.7 |
| 6860.00 | -85.66 | 10.52 | -75.14 | H | 94.6 |
| 8575.00 | -83.05 | 11.07 | -71.98 | H | 91.5 |
| 10290.00 | -82.38 | 12.47 | -69.90 | H | 89.4 |
| 12005.00 | -78.35 | 12.42 | -65.93 | H | 85.4 |

Table 6-21. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 4 Radiated Spurious Measurements (continued)
§2.1053, §27.53(h)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 1732.50 MHz
 MEASURED OUTPUT POWER: 20.66 dBm = 0.117 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 33.66 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3465.00 | -53.52 | 9.47 | -44.05 | H | 64.7 |
| 5197.50 | -53.32 | 10.87 | -42.45 | H | 63.1 |
| 6930.00 | -85.81 | 10.68 | -75.13 | H | 95.8 |
| 8662.50 | -83.01 | 11.25 | -71.77 | H | 92.4 |
| 10395.00 | -82.36 | 12.52 | -69.83 | H | 90.5 |
| 12127.50 | -77.70 | 12.28 | -65.42 | H | 86.1 |

Table 6-22. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 32 of 110 | |

Band 4 Radiated Spurious Measurements (continued)
§2.1053, §27.53(h)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1750.00 MHz
 MEASURED OUTPUT POWER: 24.13 dBm = 0.259 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.13 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3500.00 | -53.37 | 9.58 | -43.79 | H | 67.9 |
| 5250.00 | -53.75 | 10.57 | -43.17 | H | 67.3 |
| 7000.00 | -85.99 | 10.86 | -75.13 | H | 99.3 |
| 8750.00 | -83.15 | 11.50 | -71.65 | H | 95.8 |
| 10500.00 | -82.27 | 12.55 | -69.72 | H | 93.8 |
| 12250.00 | -77.56 | 12.38 | -65.18 | H | 89.3 |

Table 6-23. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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6.7 Band 2 Radiated Spurious Emissions

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1852.50 MHz
 MEASURED OUTPUT POWER: 24.79 dBm = 0.302 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.79 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3705.00 | -48.87 | 9.62 | -39.26 | H | 64.0 |
| 5557.50 | -52.32 | 10.61 | -41.71 | H | 66.5 |
| 7410.00 | -85.10 | 10.84 | -74.25 | H | 99.0 |
| 9262.50 | -83.60 | 12.20 | -71.41 | H | 96.2 |
| 11115.00 | -81.26 | 12.86 | -68.40 | H | 93.2 |
| 12967.50 | -76.15 | 12.69 | -63.45 | H | 88.2 |

Table 6-24. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Band 2 Radiated Spurious Measurements (continued)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 1880.00 MHz
 MEASURED OUTPUT POWER: 24.18 dBm = 0.262 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.18 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3760.00 | -50.05 | 9.30 | -40.75 | H | 64.9 |
| 5640.00 | -52.25 | 10.89 | -41.37 | H | 65.5 |
| 7520.00 | -84.86 | 10.85 | -74.01 | H | 98.2 |
| 9400.00 | -83.40 | 12.17 | -71.23 | H | 95.4 |
| 11280.00 | -81.58 | 13.05 | -68.53 | H | 92.7 |
| 13160.00 | -75.84 | 12.70 | -63.14 | H | 87.3 |

Table 6-25. Radiated Spurious Data- 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Band 2 Radiated Spurious Measurements (continued)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation


OPERATING FREQUENCY: 1907.50 MHz
 MEASURED OUTPUT POWER: 23.50 dBm = 0.224 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.50 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3815.00 | -46.64 | 9.05 | -37.59 | H | 61.1 |
| 5722.50 | -52.51 | 11.07 | -41.44 | H | 64.9 |
| 7630.00 | -85.20 | 11.11 | -74.09 | H | 97.6 |
| 9537.50 | -83.54 | 12.35 | -71.19 | H | 94.7 |
| 11445.00 | -81.54 | 13.22 | -68.31 | H | 91.8 |
| 13352.50 | -75.91 | 12.97 | -62.94 | H | 86.4 |

Table 6-26. Radiated Spurious Data - 5MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Band 2 Radiated Spurious Measurements (continued)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1855.00 MHz
 MEASURED OUTPUT POWER: 24.19 dBm = 0.263 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.19 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3710.00 | -50.97 | 9.62 | -41.36 | H | 65.5 |
| 5565.00 | -50.12 | 10.61 | -39.51 | H | 63.7 |
| 7420.00 | -85.10 | 10.84 | -74.25 | H | 98.4 |
| 9275.00 | -83.60 | 12.20 | -71.41 | H | 95.6 |
| 11130.00 | -81.26 | 12.86 | -68.40 | H | 92.6 |
| 12985.00 | -76.15 | 12.69 | -63.45 | H | 87.6 |

Table 6-27. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Band 2 Radiated Spurious Measurements (continued)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1880.00 MHz
 MEASURED OUTPUT POWER: 24.28 dBm = 0.268 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 37.28 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3760.00 | -49.85 | 9.30 | -40.55 | H | 64.8 |
| 5640.00 | -50.15 | 10.89 | -39.27 | H | 63.5 |
| 7520.00 | -84.86 | 10.85 | -74.01 | H | 98.3 |
| 9400.00 | -83.40 | 12.17 | -71.23 | H | 95.5 |
| 11280.00 | -81.58 | 13.05 | -68.53 | H | 92.8 |
| 13160.00 | -75.84 | 12.70 | -63.14 | H | 87.4 |

Table 6-28. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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Band 2 Radiated Spurious Measurements (continued)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation



OPERATING FREQUENCY: 1905.00 MHz
 MEASURED OUTPUT POWER: 24.49 dBm = 0.281 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 37.49 dBc

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3810.00 | -45.71 | 9.05 | -36.66 | H | 61.1 |
| 5715.00 | -51.41 | 11.07 | -40.34 | H | 64.8 |
| 7620.00 | -85.20 | 11.11 | -74.09 | H | 98.6 |
| 9525.00 | -83.54 | 12.35 | -71.19 | H | 95.7 |
| 11430.00 | -81.54 | 13.22 | -68.31 | H | 92.8 |
| 13335.00 | -75.91 | 12.97 | -62.94 | H | 87.4 |

Table 6-29. Radiated Spurious Data - 10MHz Bandwidth

NOTES:

1. This device was tested under all RB configurations and modulations. The worst case emissions are reported using 1RB (with offset 0) and QPSK modulation.
2. This unit was tested with its standard battery.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found in the horizontal setup. The data reported in the table above was measured in this test setup.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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6.8 Band 17 Frequency Stability Measurements



§2.1055, 27.54

OPERATING FREQUENCY: 710,000,000 Hz

REFERENCE VOLTAGE: 3.8 VDC

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|-------------|-------------|------------|----------------|-----------------|---------------|
| 100 % | 3.80 | + 20 (Ref) | 710,000,007 | 7 | 0.000001 |
| 100 % | | - 30 | 710,000,002 | 2 | 0.000000 |
| 100 % | | - 20 | 710,000,007 | 7 | 0.000001 |
| 100 % | | - 10 | 710,000,003 | 3 | 0.000000 |
| 100 % | | 0 | 710,000,003 | 3 | 0.000000 |
| 100 % | | + 10 | 710,000,011 | 11 | 0.000002 |
| 100 % | | + 20 | 710,000,008 | 8 | 0.000001 |
| 100 % | | + 30 | 710,000,008 | 8 | 0.000001 |
| 100 % | | + 40 | 710,000,013 | 13 | 0.000002 |
| 100 % | | + 50 | 710,000,004 | 4 | 0.000001 |
| 115 % | | 4.37 | + 20 | 710,000,006 | 6 |
| 85 % | 3.23 | + 20 | 710,000,002 | 2 | 0.000000 |

Table 6-30. Frequency Stability Data (Band 17)

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Band 17 Frequency Stability Measurements (Cont'd)
§2.1055, 27.54

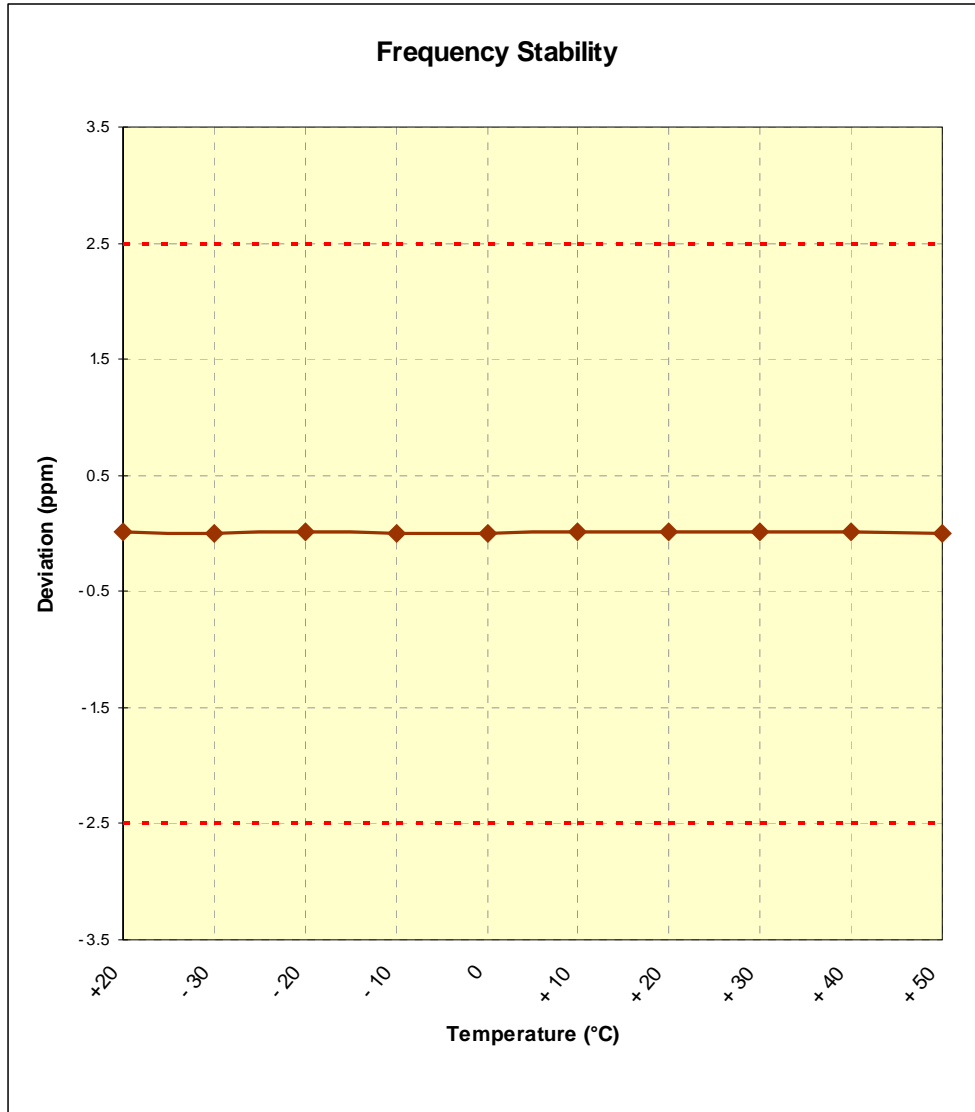




Figure 6-1. Frequency Stability Graph (Band 17)

| | | | | |
|---|---|--|---|--|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 41 of 110 | |



6.9 Band 5 Frequency Stability Measurements

§2.1055, 22.355; RSS-132 (4.3)

OPERATING FREQUENCY: 836,500,000 Hz
 REFERENCE VOLTAGE: 3.8 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|-------------|-------------|------------|----------------|-----------------|---------------|
| 100 % | 3.80 | + 20 (Ref) | 836,500,005 | 5 | 0.000001 |
| 100 % | | - 30 | 836,500,004 | 4 | 0.000000 |
| 100 % | | - 20 | 836,500,002 | 2 | 0.000000 |
| 100 % | | - 10 | 836,500,008 | 8 | 0.000001 |
| 100 % | | 0 | 836,500,010 | 10 | 0.000001 |
| 100 % | | + 10 | 836,500,006 | 6 | 0.000001 |
| 100 % | | + 20 | 836,500,002 | 2 | 0.000000 |
| 100 % | | + 30 | 836,500,003 | 3 | 0.000000 |
| 100 % | | + 40 | 836,500,003 | 3 | 0.000000 |
| 100 % | | + 50 | 836,500,004 | 4 | 0.000000 |
| 115 % | 4.37 | + 20 | 836,500,008 | 8 | 0.000001 |
| 85 % | 3.23 | + 20 | 836,500,009 | 9 | 0.000001 |

Table 6-31. Frequency Stability Data (Band 5)

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 42 of 110 | |

Band 5 Frequency Stability Measurements (Cont'd)
§2.1055, 22.355; RSS-132 (4.3)

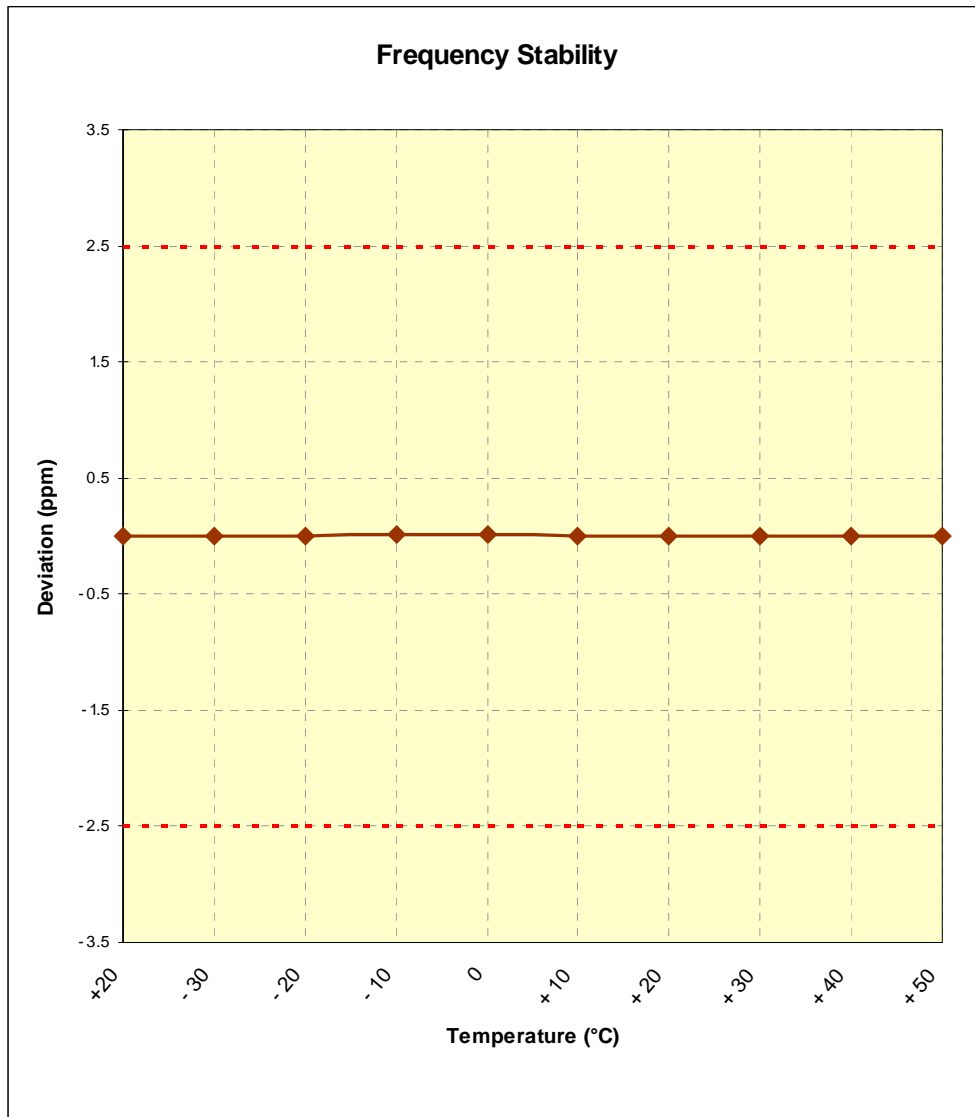




Figure 6-2. Frequency Stability Graph (Band 5)

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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6.10 Band 4 Frequency Stability Measurements



§2.1055, 27.54

OPERATING FREQUENCY: 1,732,500,000 Hz

REFERENCE VOLTAGE: 3.8 VDC

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|-------------|-------------|------------|----------------|-----------------|---------------|
| 100 % | 3.80 | + 20 (Ref) | 1,732,500,006 | 6 | 0.000000 |
| 100 % | | - 30 | 1,732,500,006 | 6 | 0.000000 |
| 100 % | | - 20 | 1,732,500,002 | 2 | 0.000000 |
| 100 % | | - 10 | 1,732,500,014 | 14 | 0.000001 |
| 100 % | | 0 | 1,732,500,008 | 8 | 0.000000 |
| 100 % | | + 10 | 1,732,500,009 | 9 | 0.000001 |
| 100 % | | + 20 | 1,732,500,011 | 11 | 0.000001 |
| 100 % | | + 30 | 1,732,500,013 | 13 | 0.000001 |
| 100 % | | + 40 | 1,732,500,006 | 6 | 0.000000 |
| 100 % | | + 50 | 1,732,500,010 | 10 | 0.000001 |
| 115 % | | 4.37 | + 20 | 1,732,500,004 | 4 |
| 85 % | 3.23 | + 20 | 1,732,500,011 | 11 | 0.000001 |

Table 6-32. Frequency Stability Data (Band 4)

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 44 of 110 | |

Band 4 Frequency Stability Measurements (Cont'd)
§2.1055, 27.54

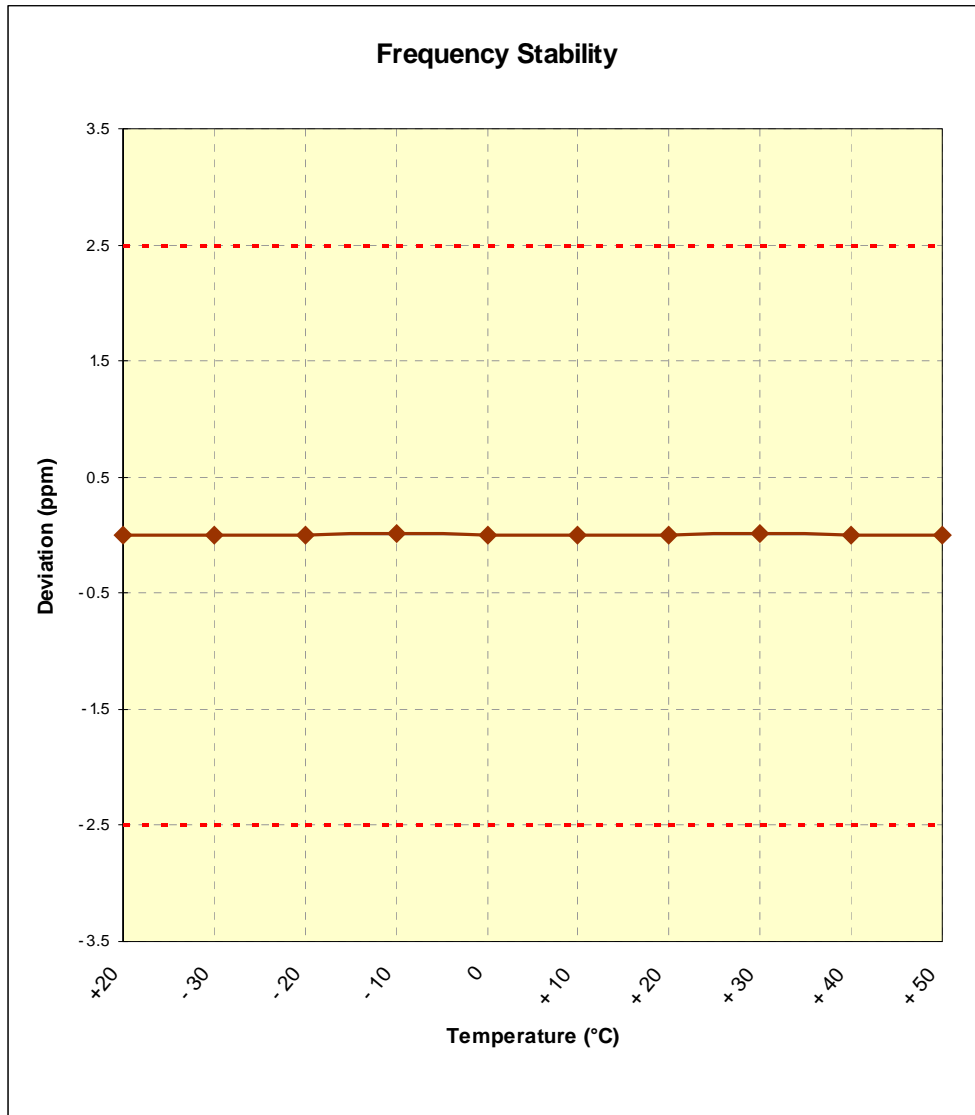




Figure 6-3. Frequency Stability Graph (Band 4)

| | | | | |
|---|---|--|---|--|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 45 of 110 | |



6.11 Band 2 Frequency Stability Measurements
§2.1055, 24.235, RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz

REFERENCE VOLTAGE: 3.8 VDC

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|-------------|-------------|------------|----------------|-----------------|---------------|
| 100 % | 3.80 | + 20 (Ref) | 1,880,000,004 | 4 | 0.000000 |
| 100 % | | - 30 | 1,880,000,004 | 4 | 0.000000 |
| 100 % | | - 20 | 1,880,000,010 | 10 | 0.000001 |
| 100 % | | - 10 | 1,880,000,002 | 2 | 0.000000 |
| 100 % | | 0 | 1,880,000,006 | 6 | 0.000000 |
| 100 % | | + 10 | 1,880,000,003 | 3 | 0.000000 |
| 100 % | | + 20 | 1,880,000,002 | 2 | 0.000000 |
| 100 % | | + 30 | 1,880,000,002 | 2 | 0.000000 |
| 100 % | | + 40 | 1,880,000,005 | 5 | 0.000000 |
| 100 % | | + 50 | 1,880,000,004 | 4 | 0.000000 |
| 115 % | 4.37 | + 20 | 1,880,000,009 | 9 | 0.000000 |
| 85 % | 3.23 | + 20 | 1,880,000,007 | 7 | 0.000000 |

Table 6-33. Frequency Stability Data (Band 2)

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 46 of 110 | |

Band 2 Frequency Stability Measurements (Cont'd)
§2.1055, 24.235, RSS-133 (6.3)

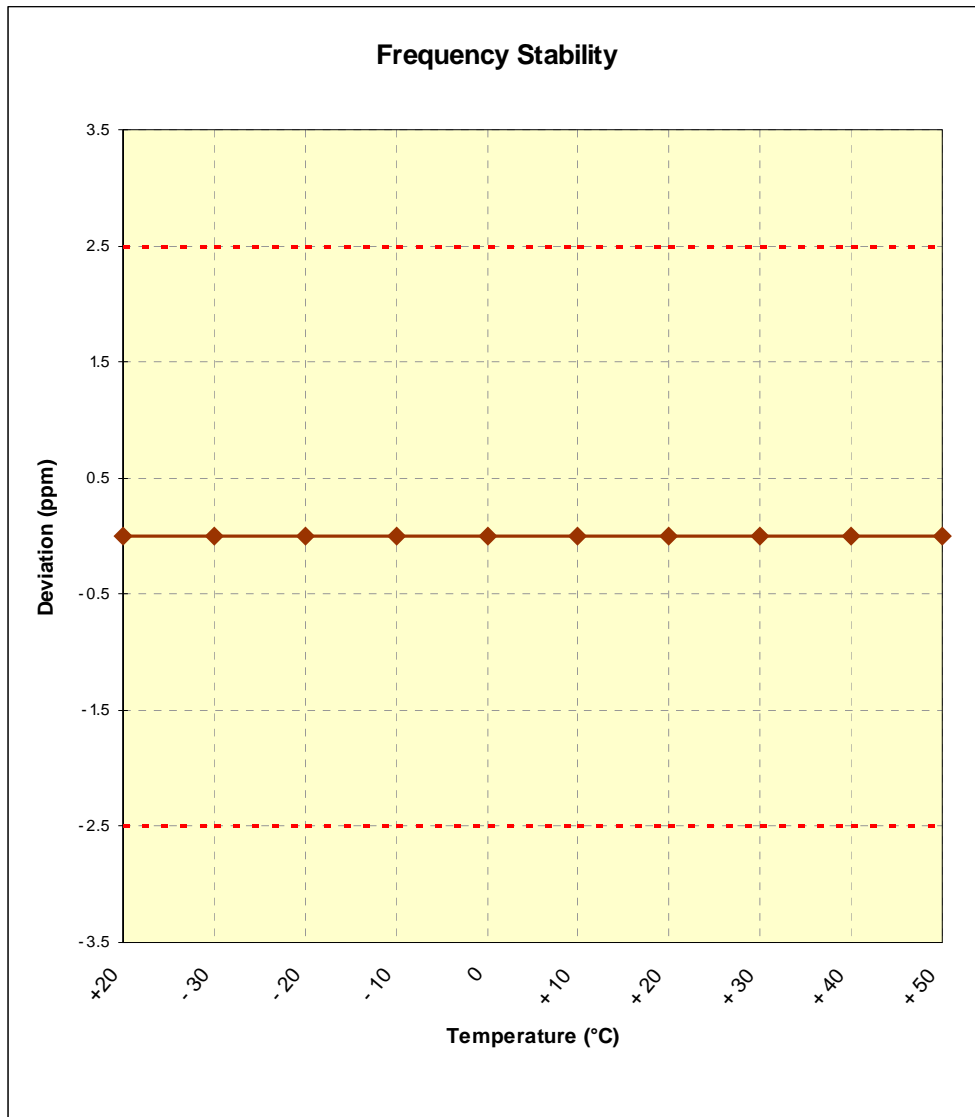
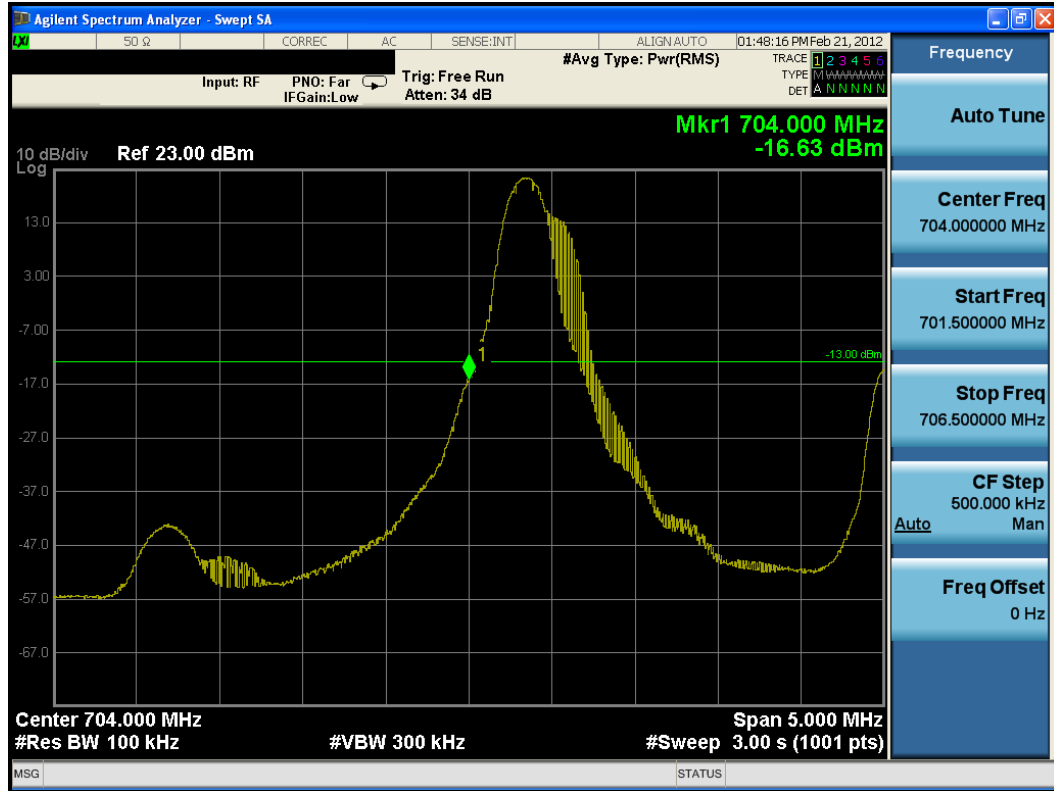


Figure 6-4. Frequency Stability Graph (Band 2)

| | | | | |
|---|--|--|--|--|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 47 of 110 |

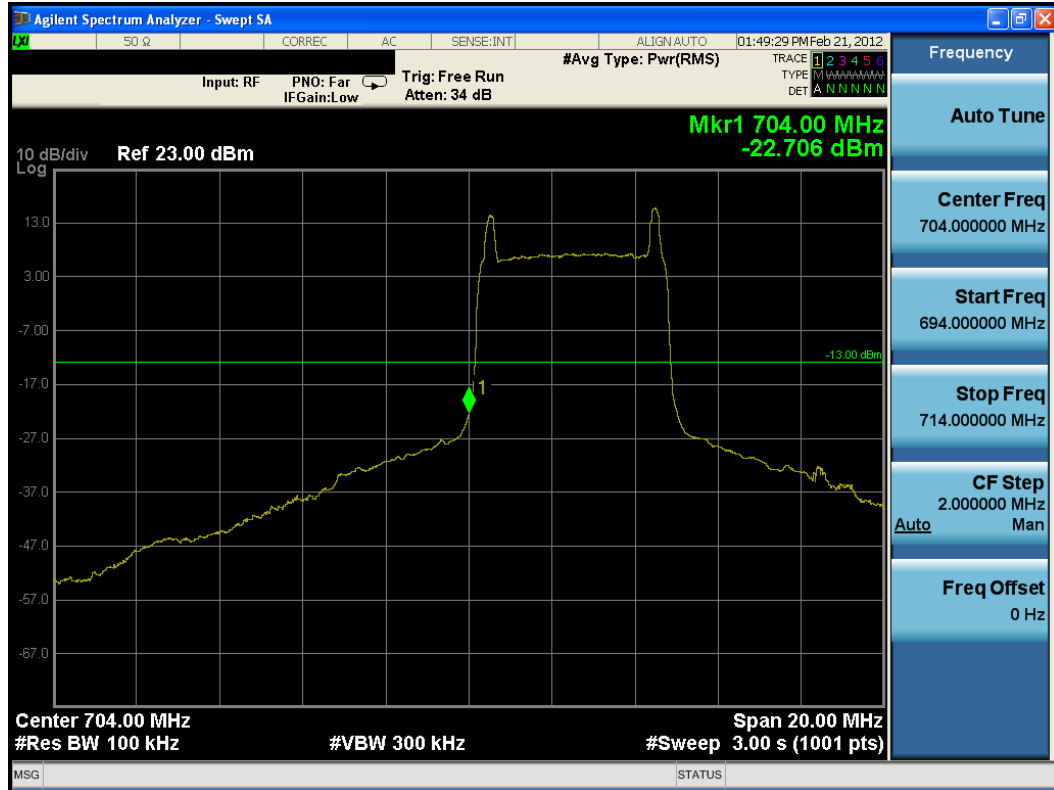
7.0 BAND 17 PLOTS OF EMISSIONS

Note: All bandwidths, RB configurations, and modulations were investigated. The worst case test results are reported below.

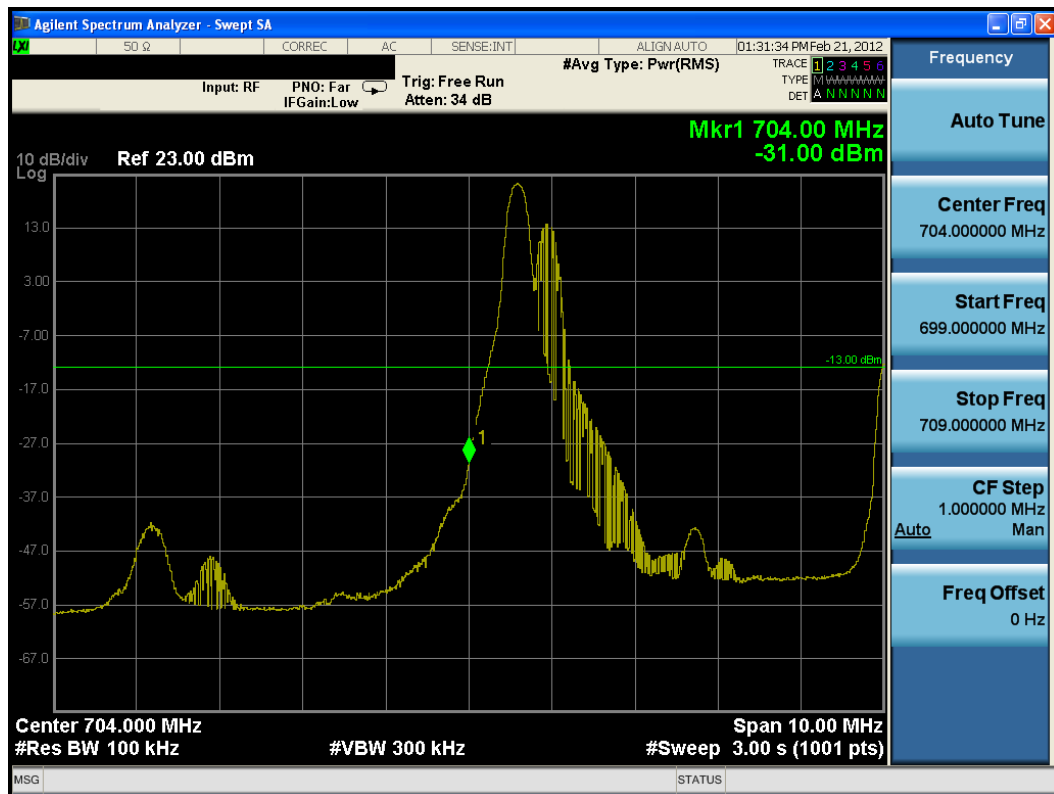


Plot 7-1. Lower Band Edge Plot (5MHz QPSK – RB Size 1, Offset 0)



| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
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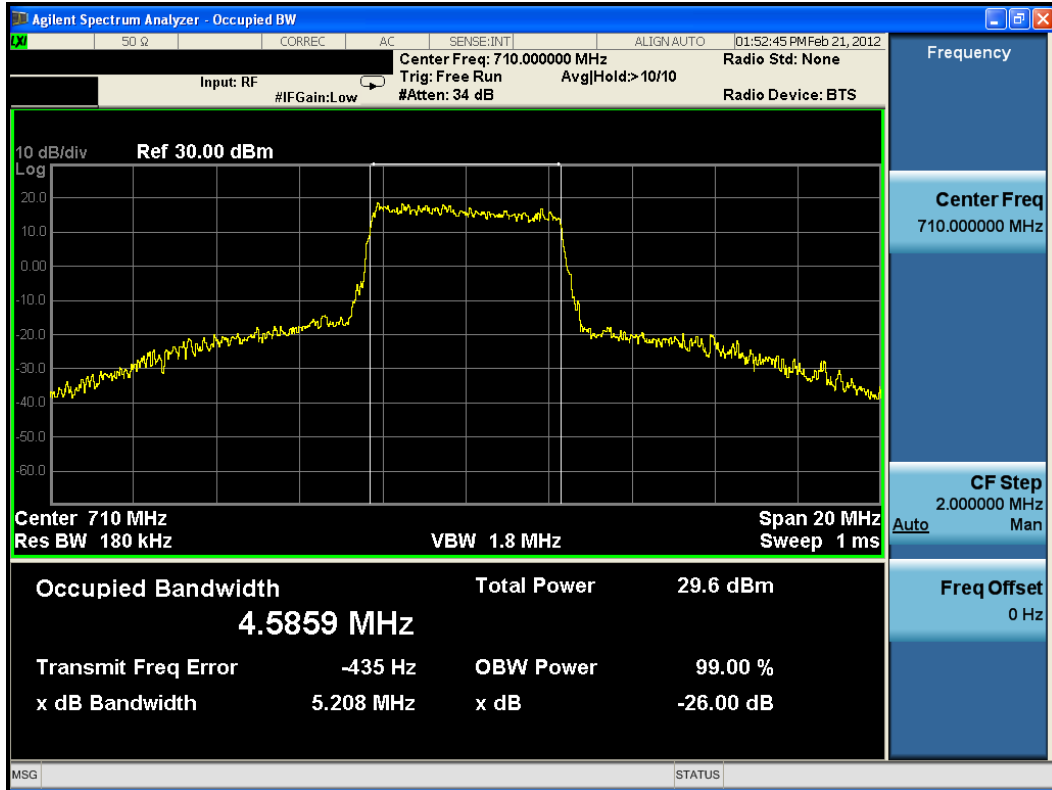


Plot 7-2. Lower Band Edge Plot (5MHz QPSK – RB Size 25, Offset 0)



Plot 7-3. Lower Band Edge Plot (10MHz QPSK – RB Size 1, Offset 0)

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 49 of 110 |

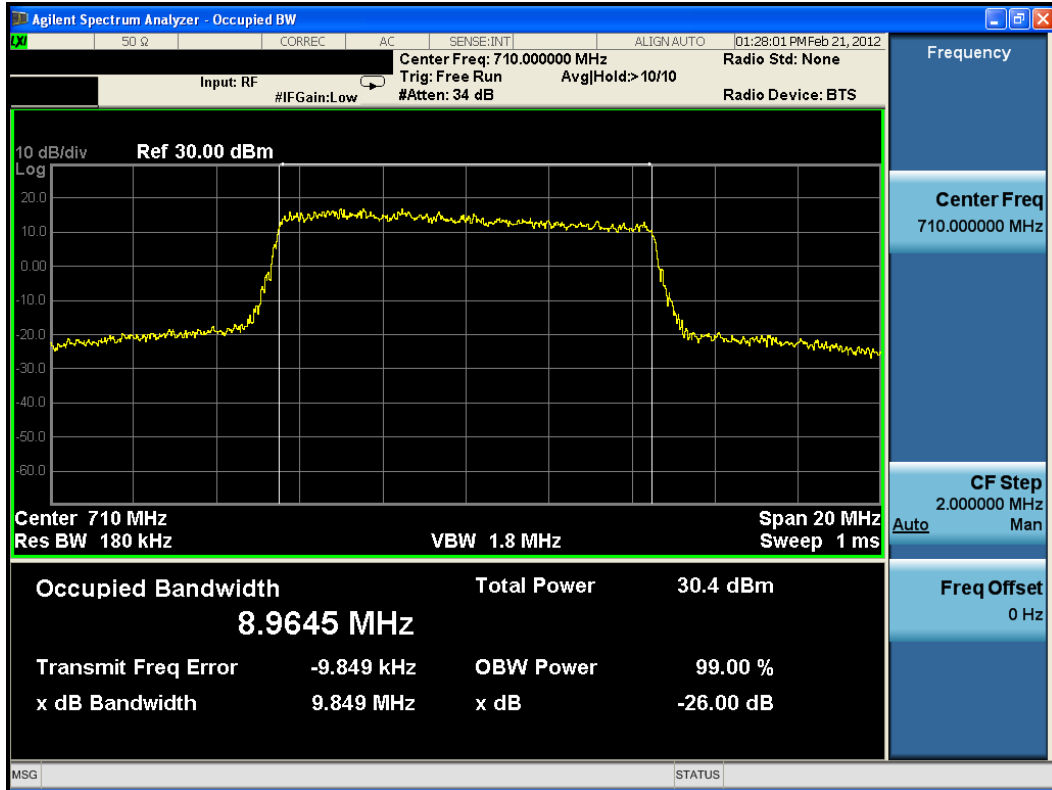


Plot 7-6. Occupied Bandwidth Plot (5MHz 16-QAM – RB Size 25)

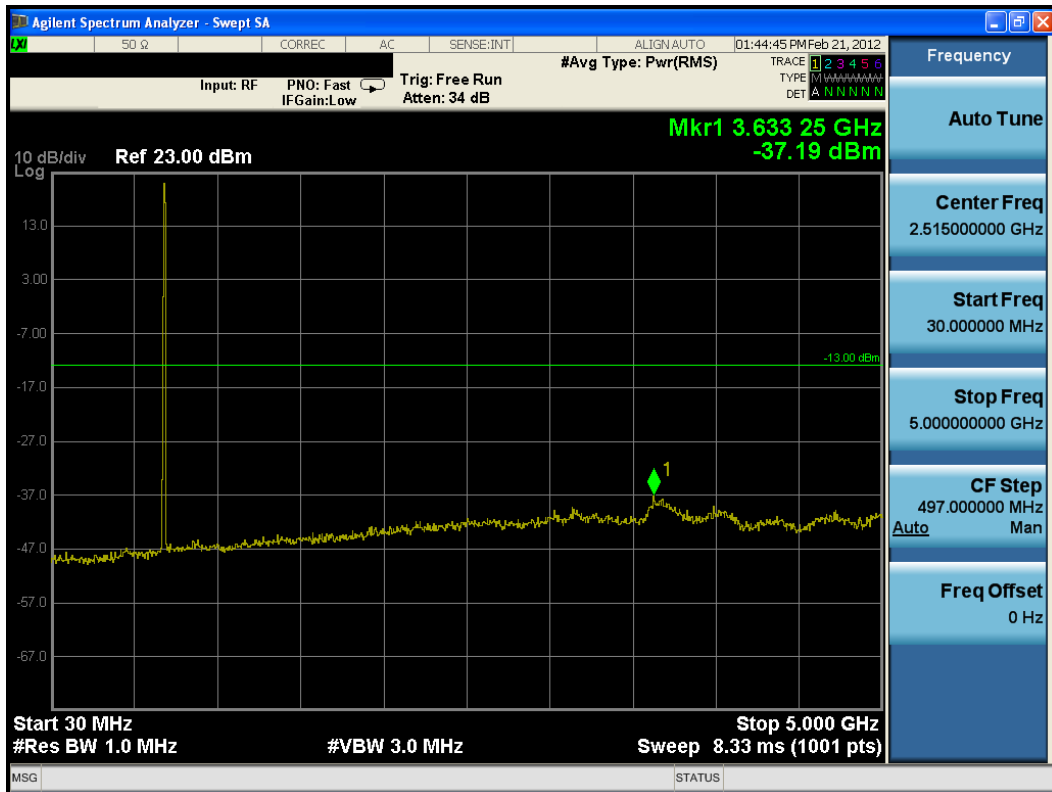


Plot 7-7. Occupied Bandwidth Plot (10MHz QPSK – RB Size 50)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 51 of 110 |

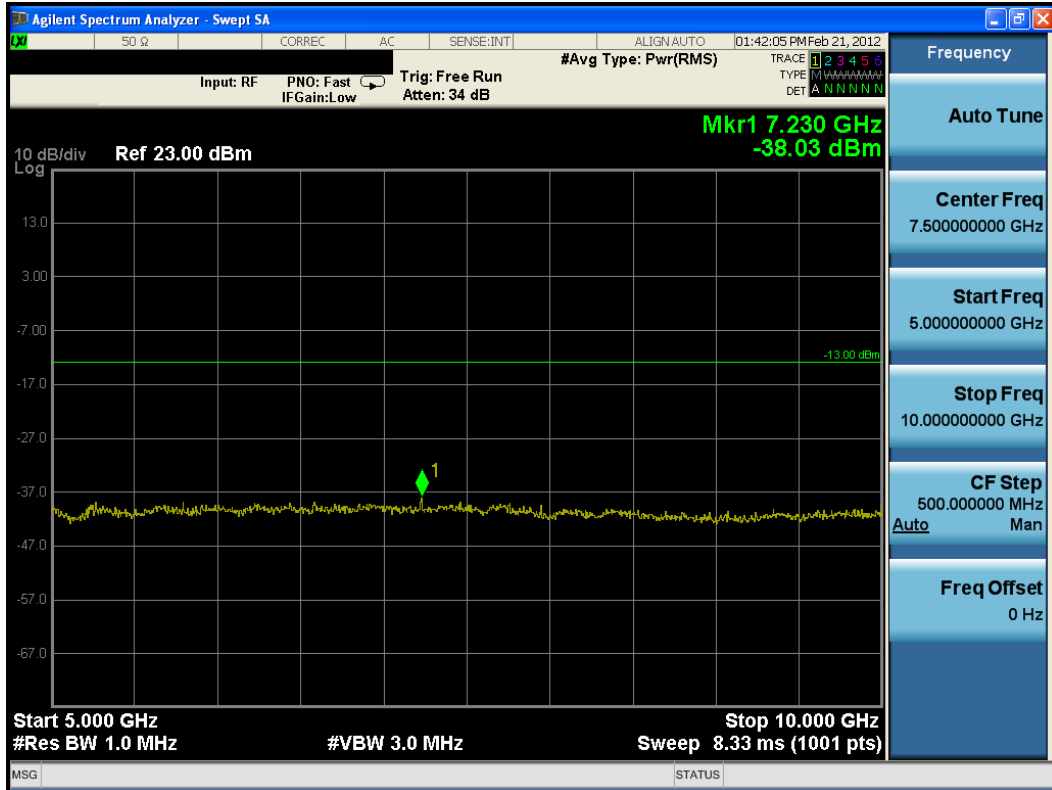


Plot 7-8. Occupied Bandwidth Plot (10MHz 16-QAM – RB Size 50)

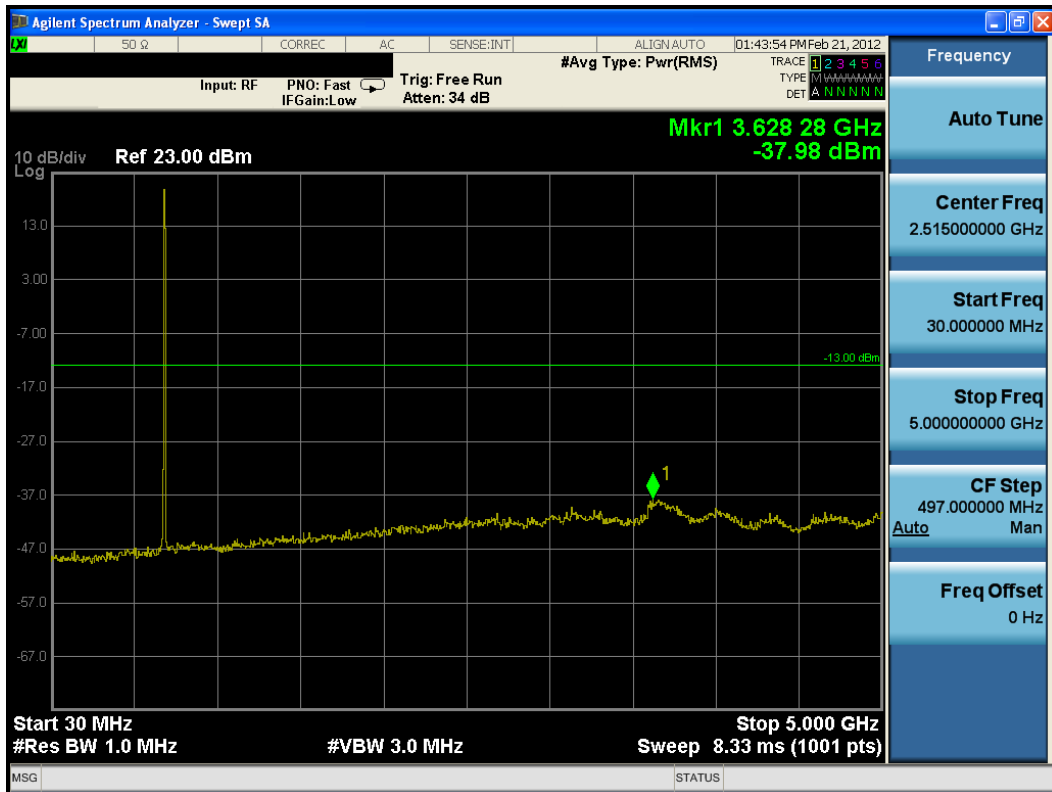


Plot 7-9. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 52 of 110 |

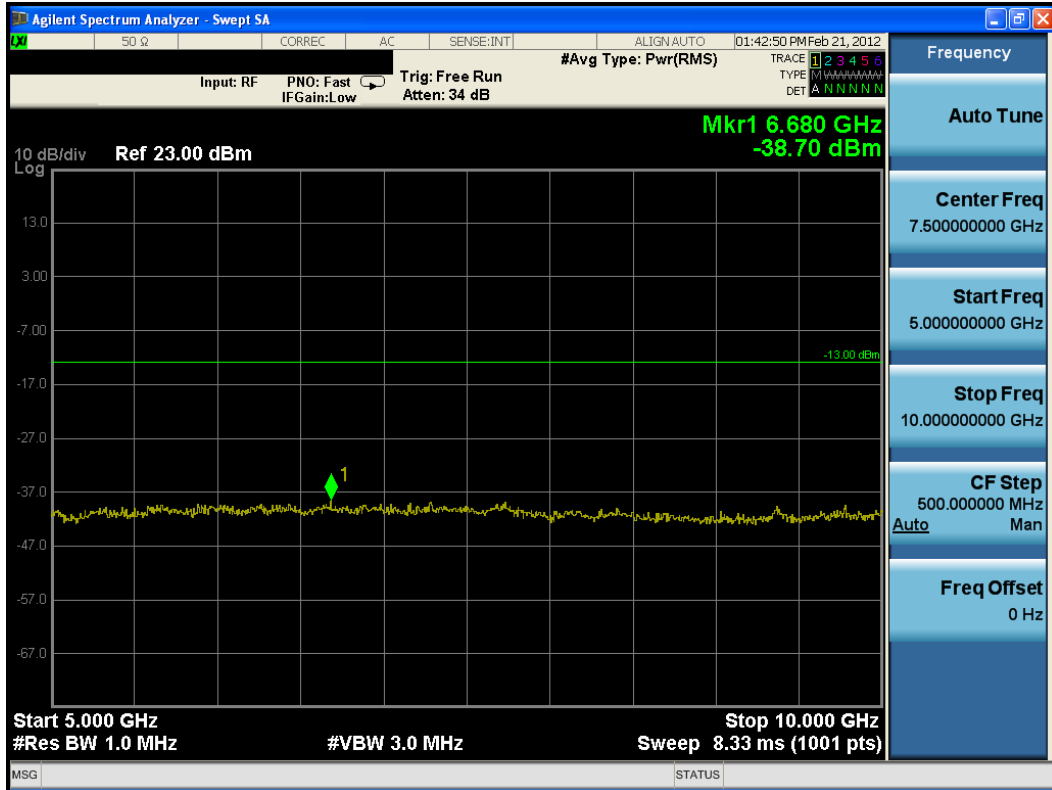


Plot 7-10. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

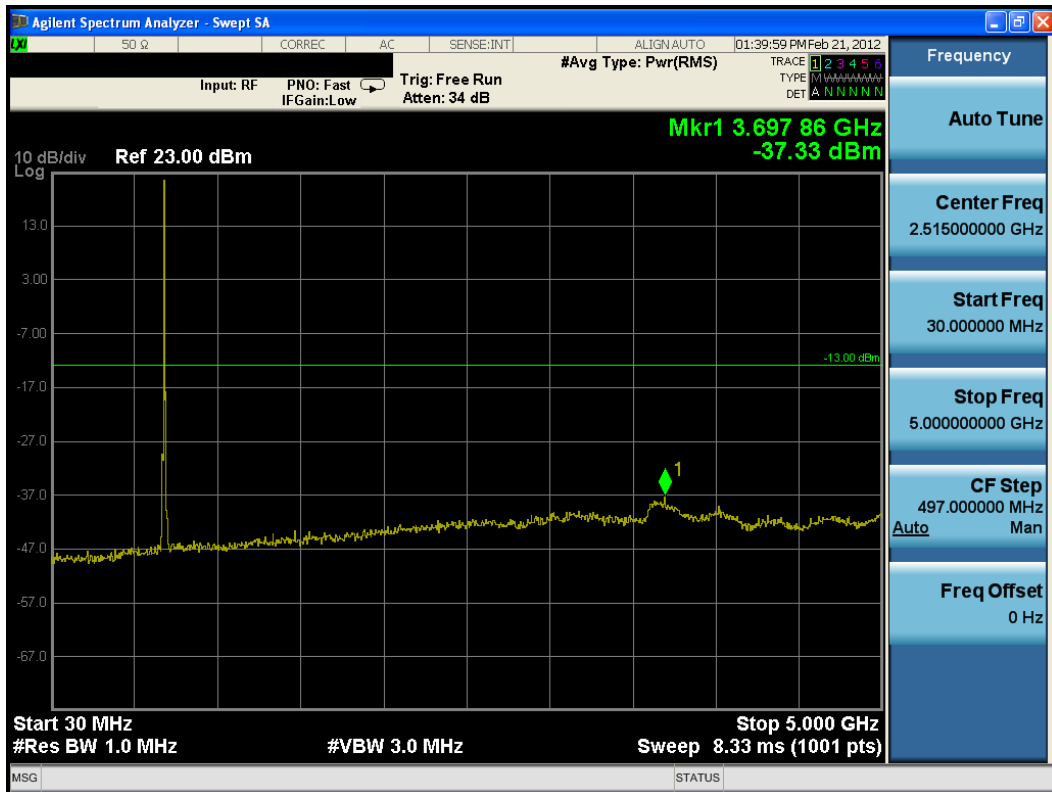


Plot 7-11. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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|--------------------------------------|---|--|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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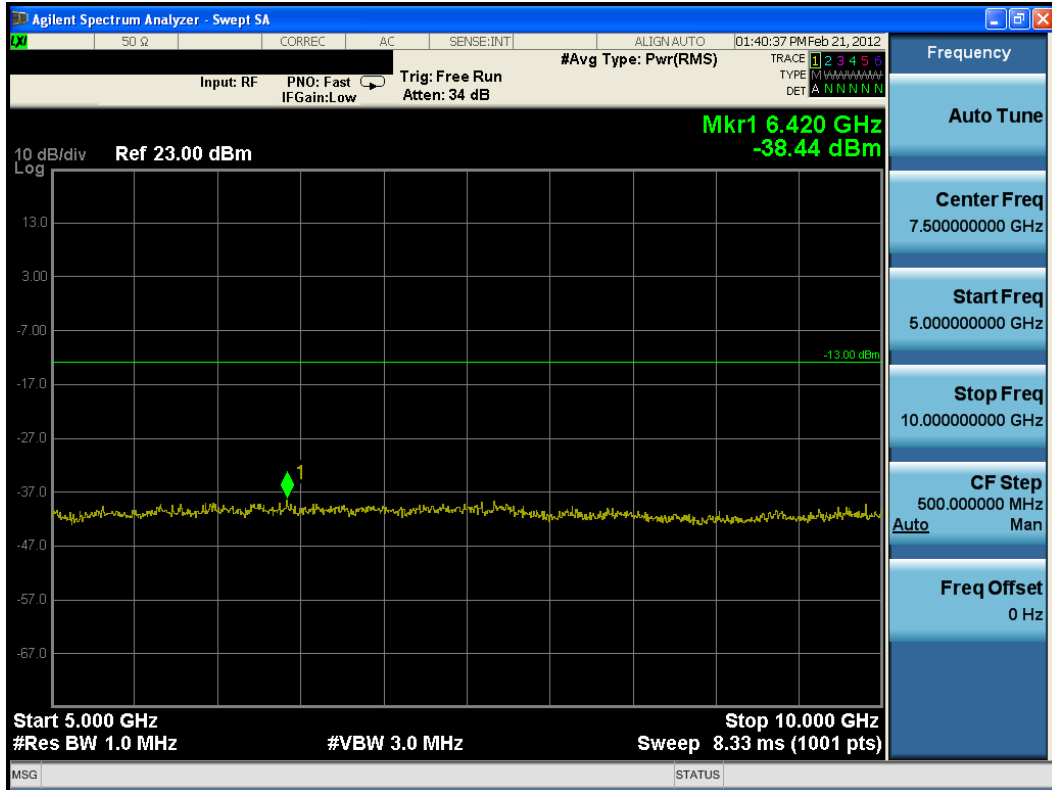


Plot 7-14. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

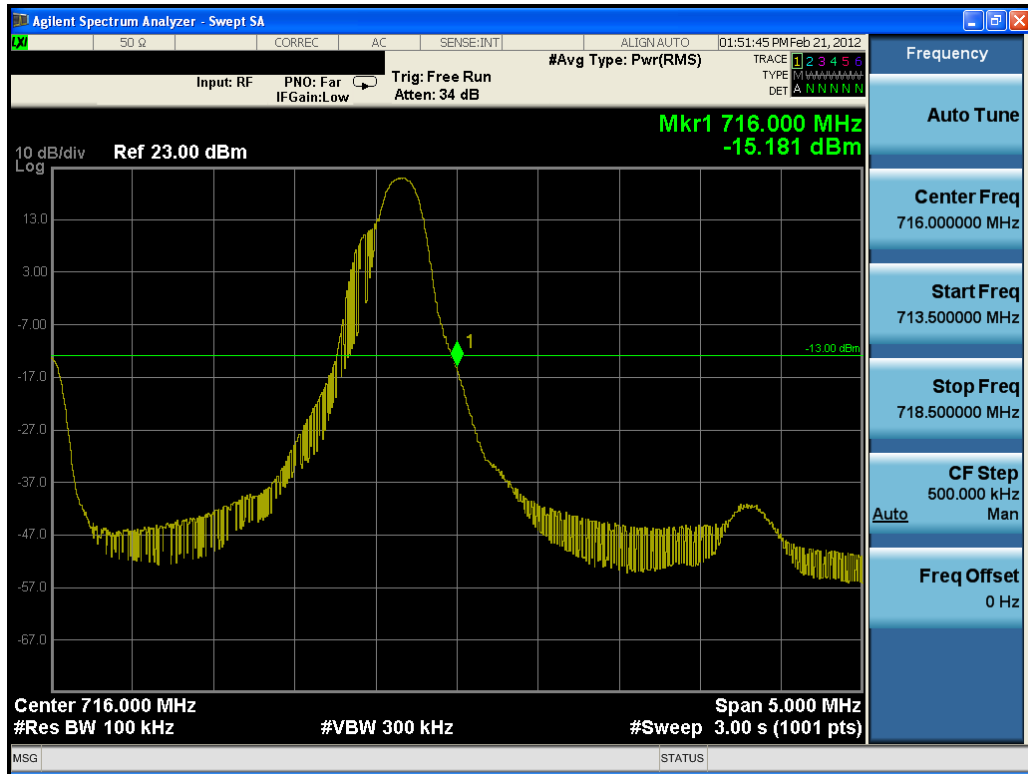


Plot 7-15. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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|--------------------------------------|--|--|---------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
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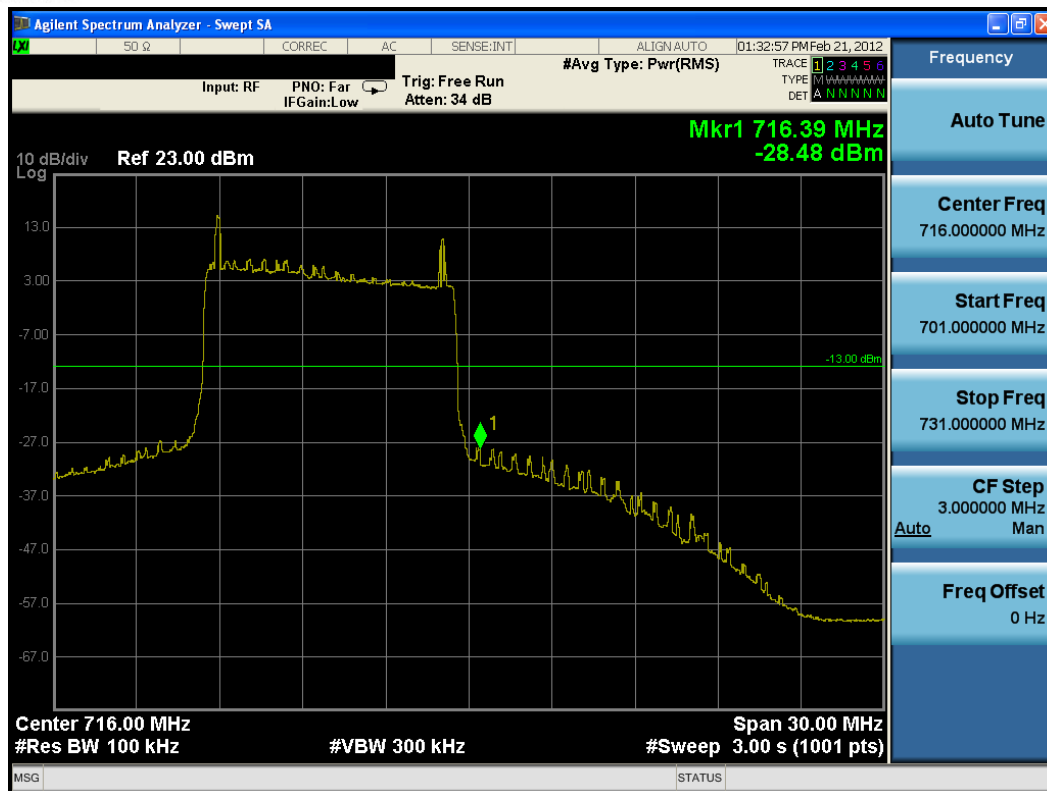


Plot 7-16. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 7-17. Upper Band Edge Plot (5MHz QPSK – RB Size 1, Offset 24)

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|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 56 of 110 |

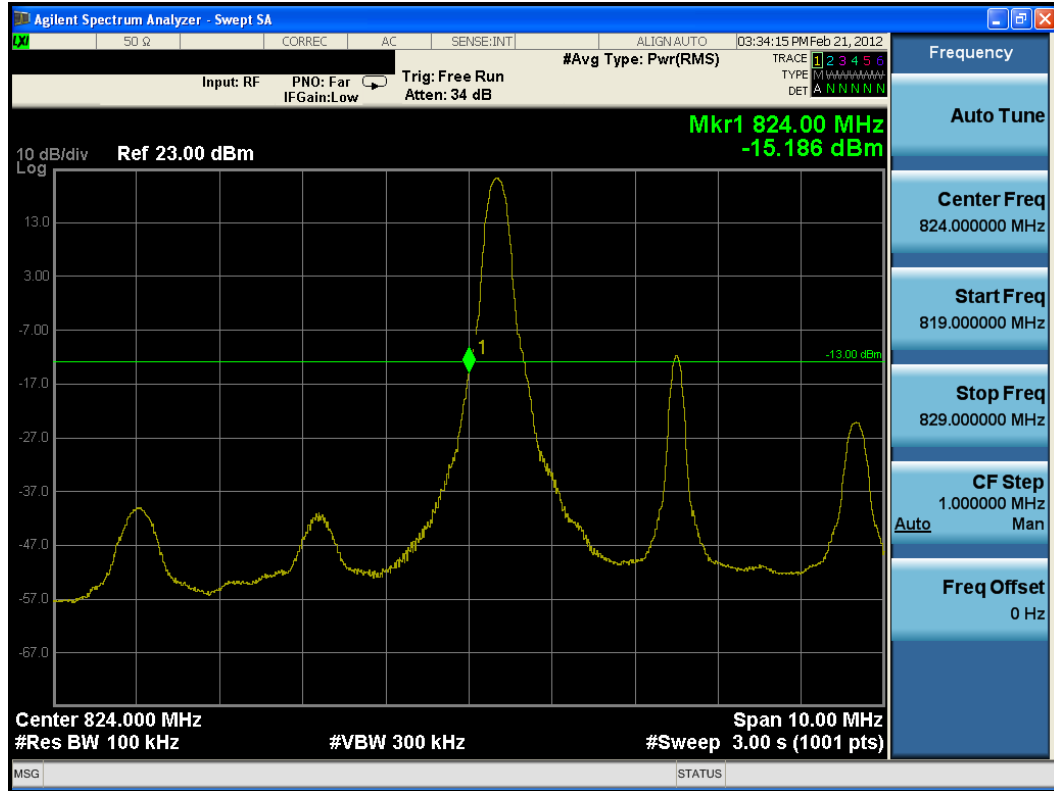


Plot 7-20. Upper Band Edge Plot (10MHz QPSK – RB Size 50, Offset 0)

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|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 58 of 110 |

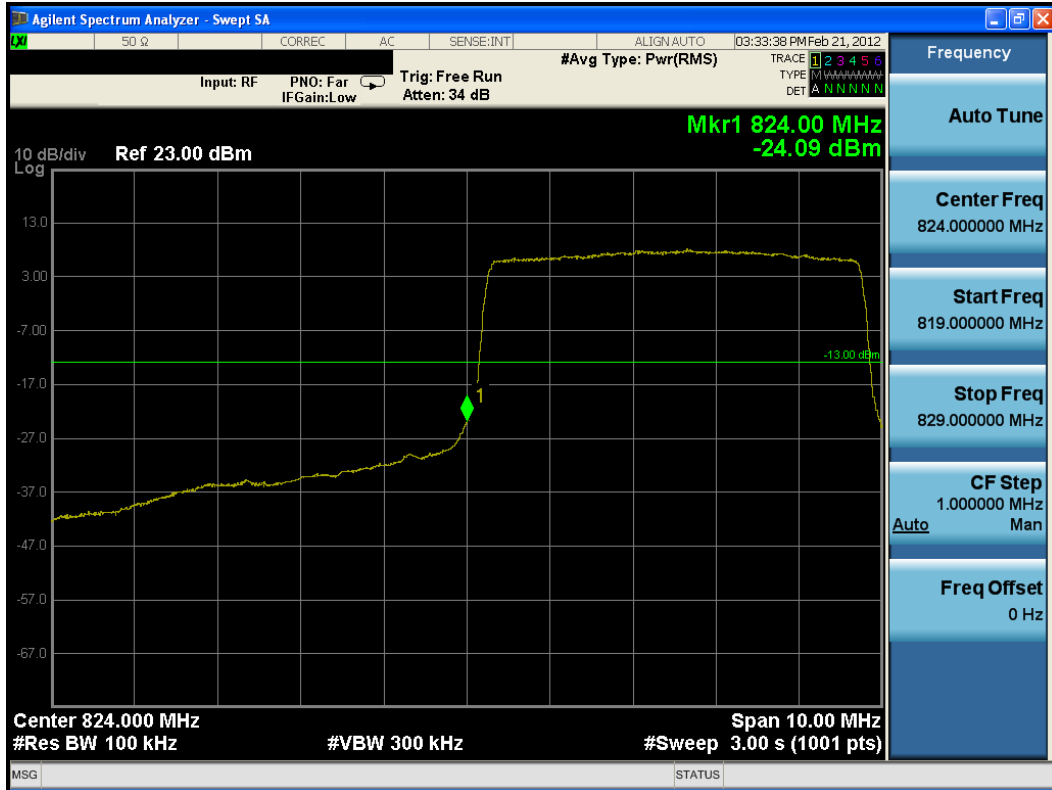
8.0 BAND 5 PLOTS OF EMISSIONS

Note: All bandwidths, RB configurations, and modulations were investigated. The worst case test results are reported below.

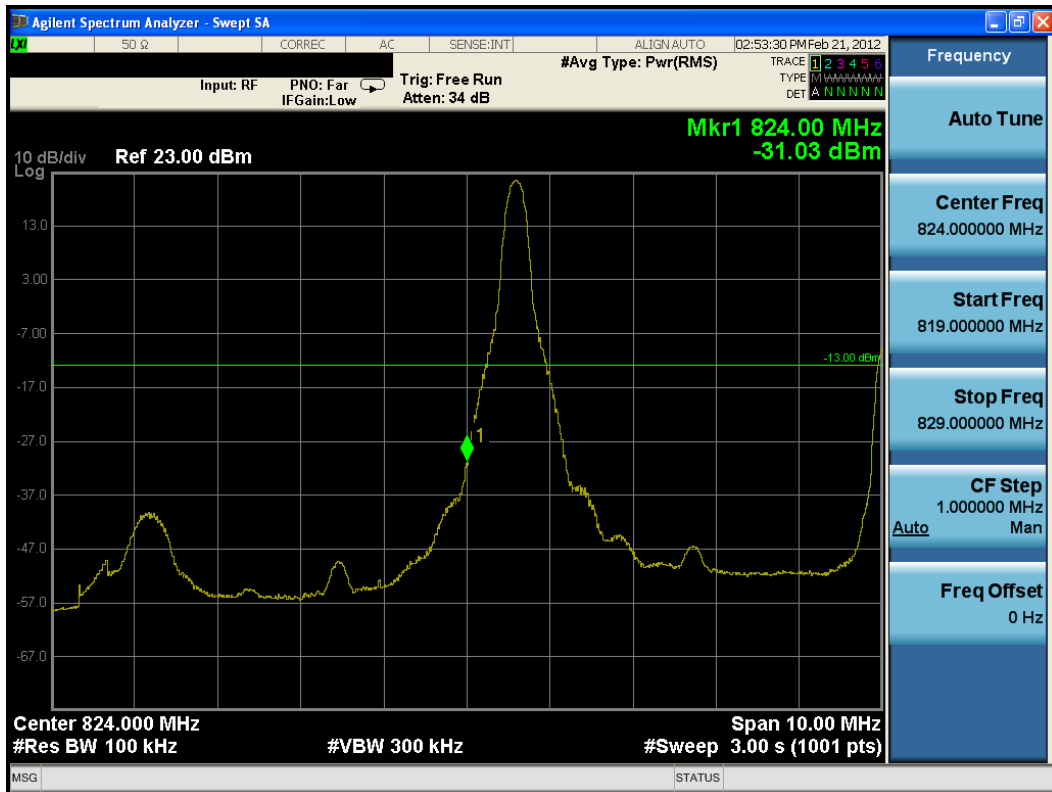


Plot 8-1. Lower Band Edge Plot (5MHz QPSK – RB Size 1, Offset 0)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 59 of 110 |



Plot 8-2. Lower Band Edge Plot (5MHz QPSK – RB Size 25, Offset 0)

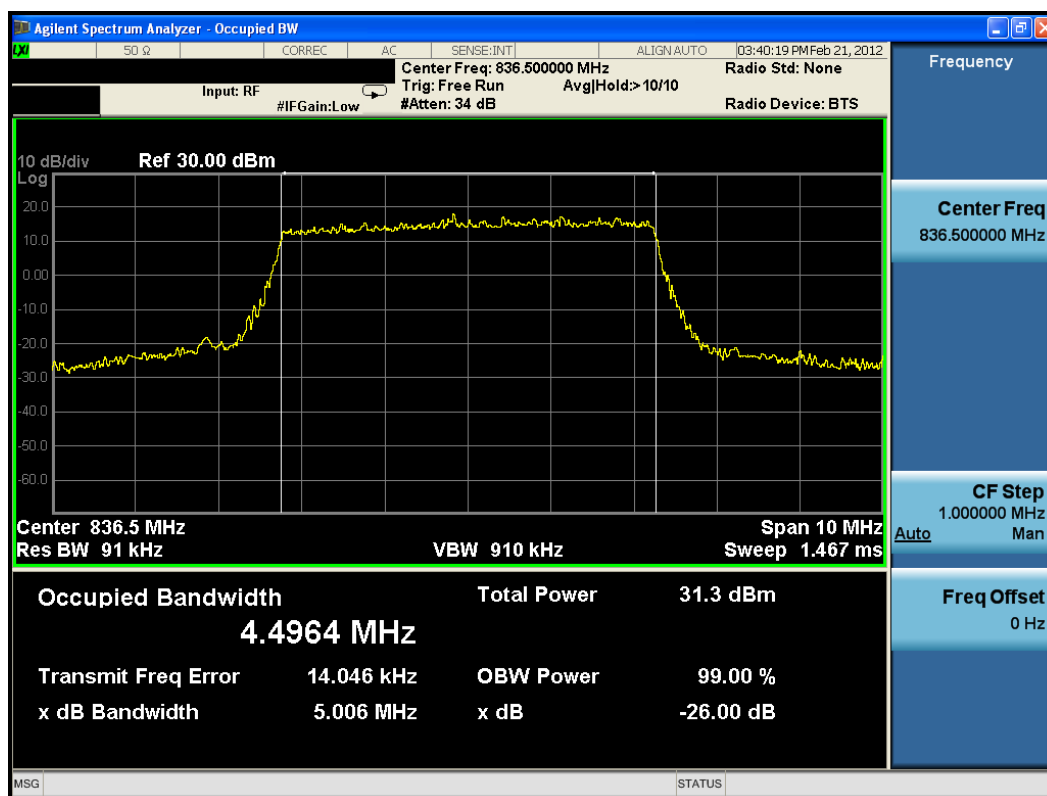


Plot 8-3. Lower Band Edge Plot (10MHz QPSK – RB Size 1, Offset 0)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 60 of 110 |

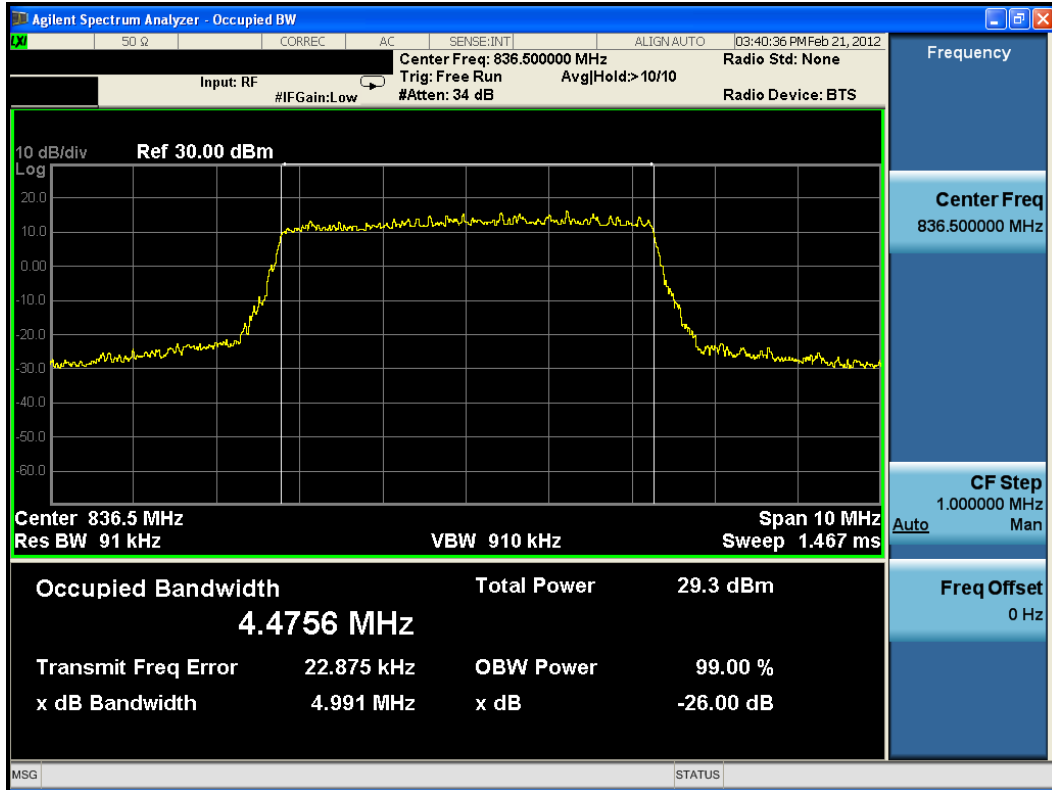


Plot 8-4. Lower Band Edge Plot (10MHz QPSK – RB Size 50, Offset 0)

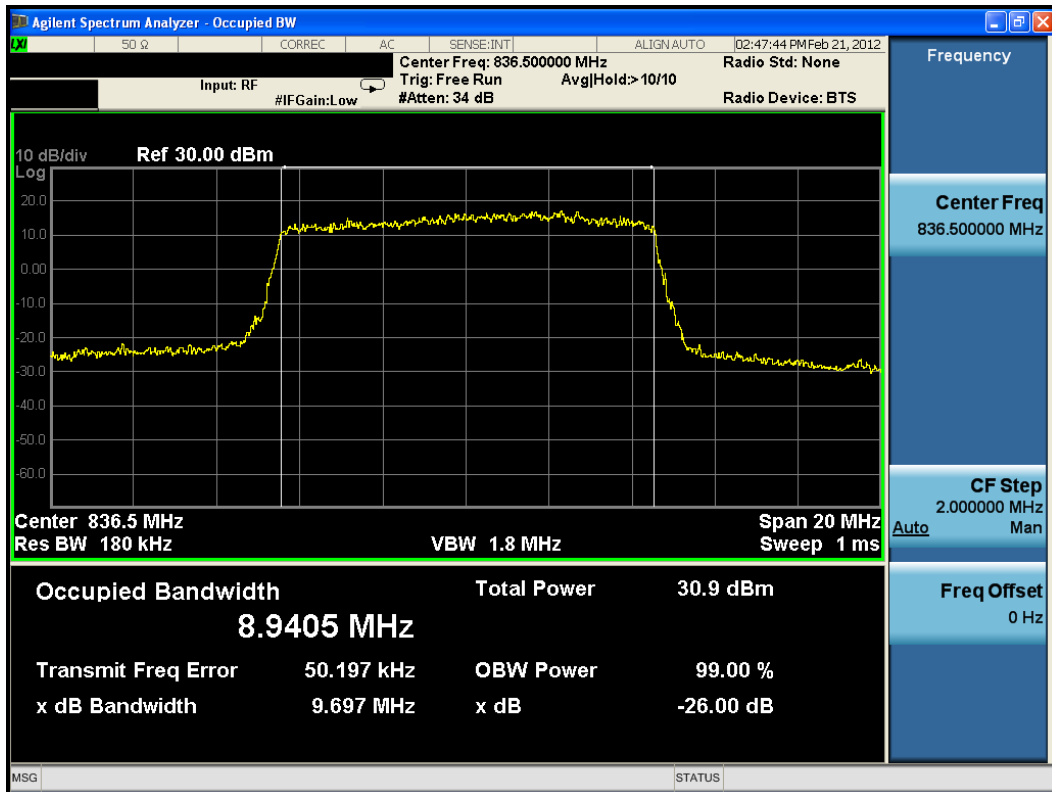


Plot 8-5. Occupied Bandwidth Plot (5MHz QPSK – RB Size 25)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 61 of 110 |

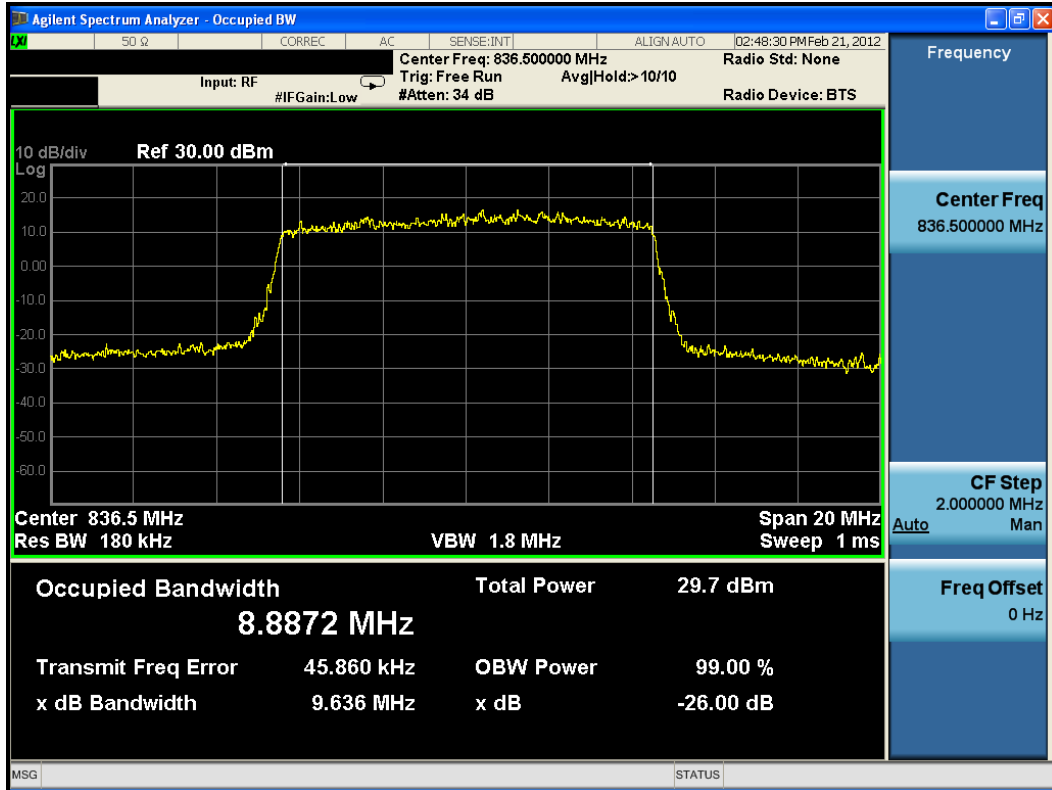


Plot 8-6. Occupied Bandwidth Plot (5MHz 16-QAM – RB Size 25)

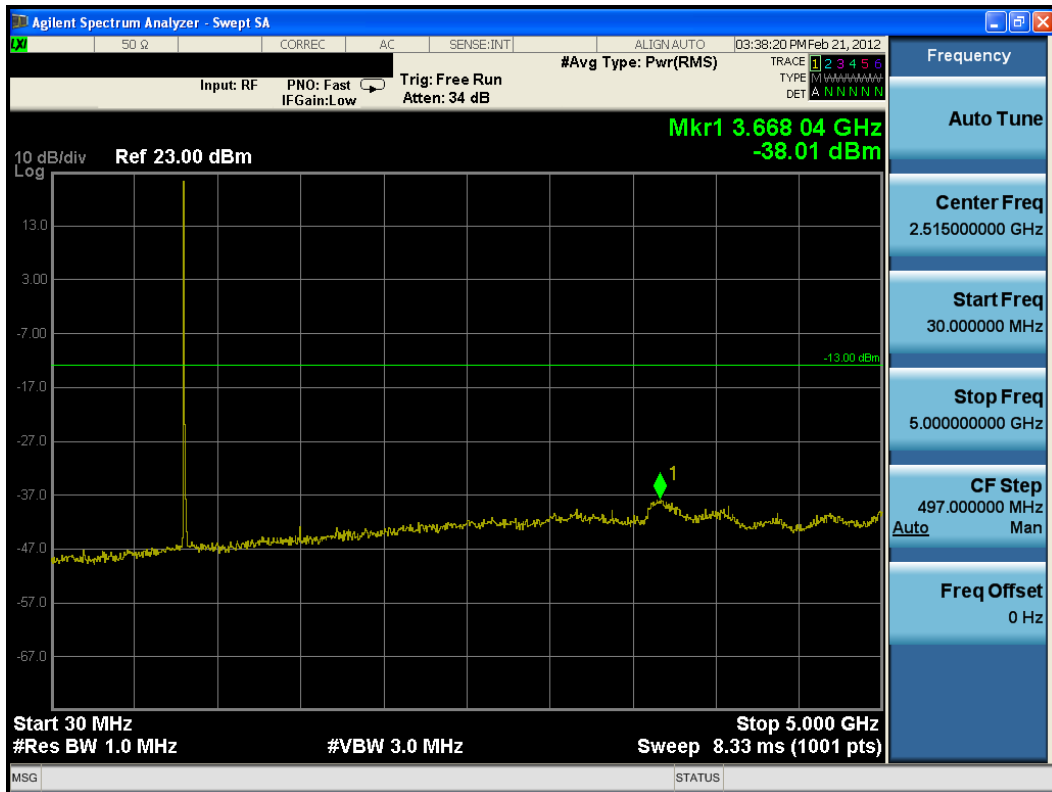


Plot 8-7. Occupied Bandwidth Plot (10MHz QPSK – RB Size 50)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 62 of 110 |

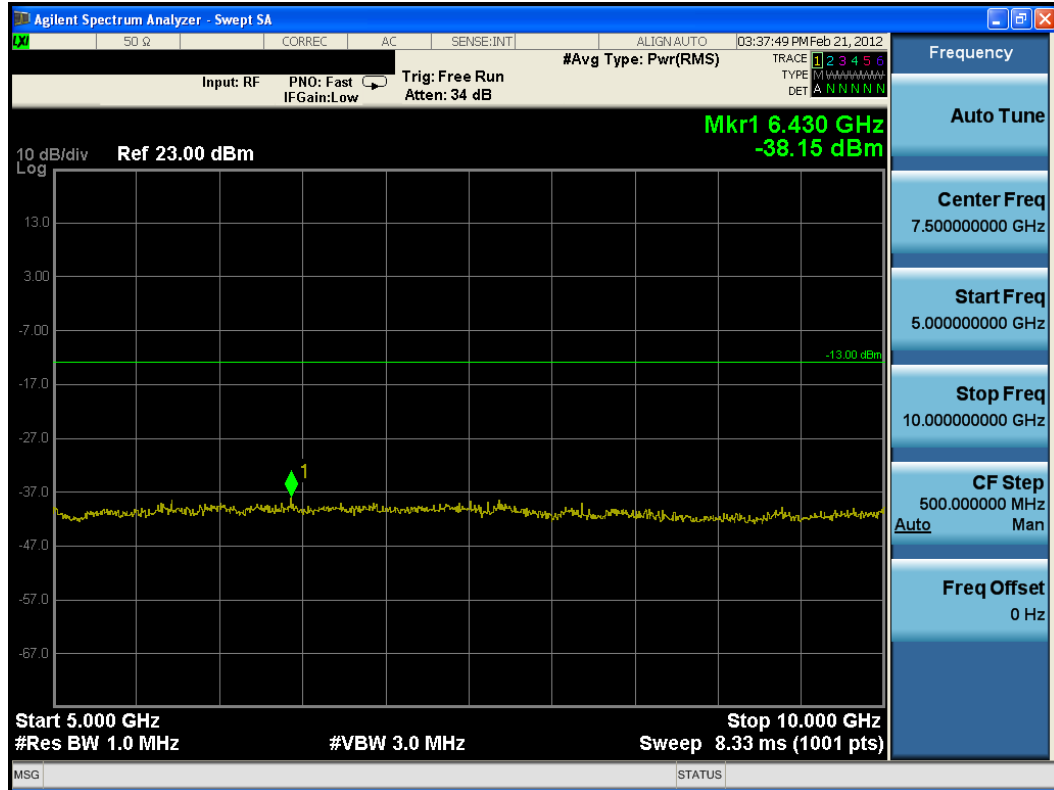


Plot 8-8. Occupied Bandwidth Plot (10MHz 16-QAM – RB Size 50)

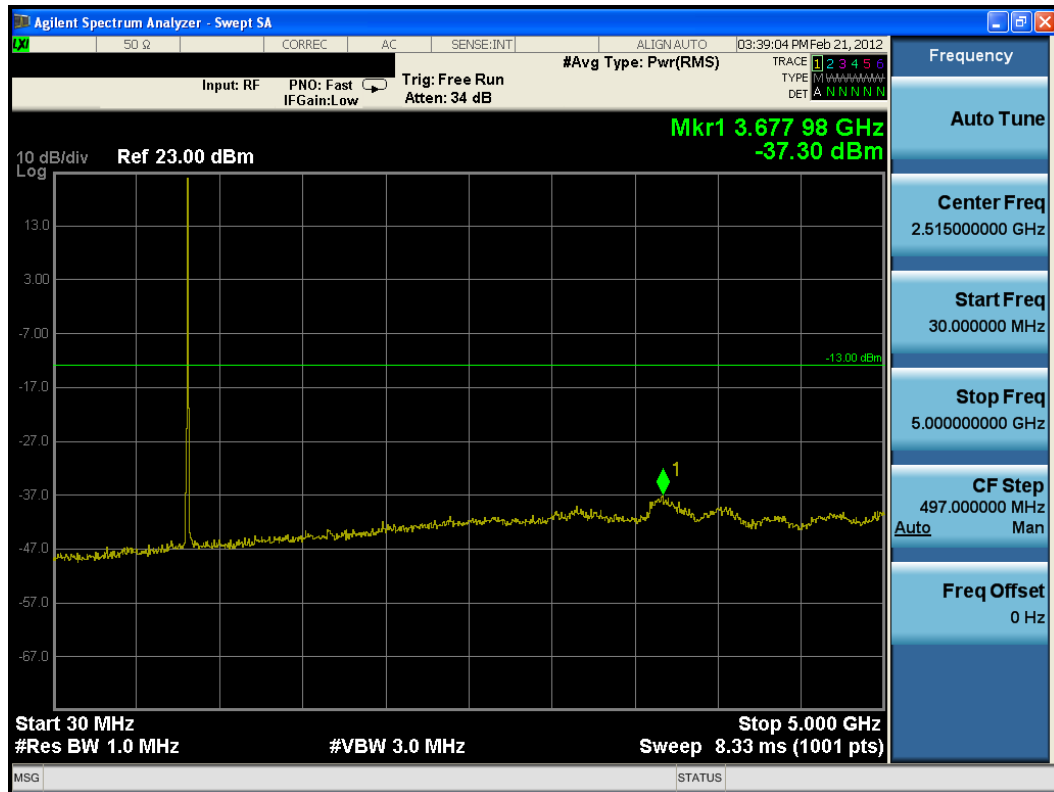


Plot 8-9. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

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|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 63 of 110 |

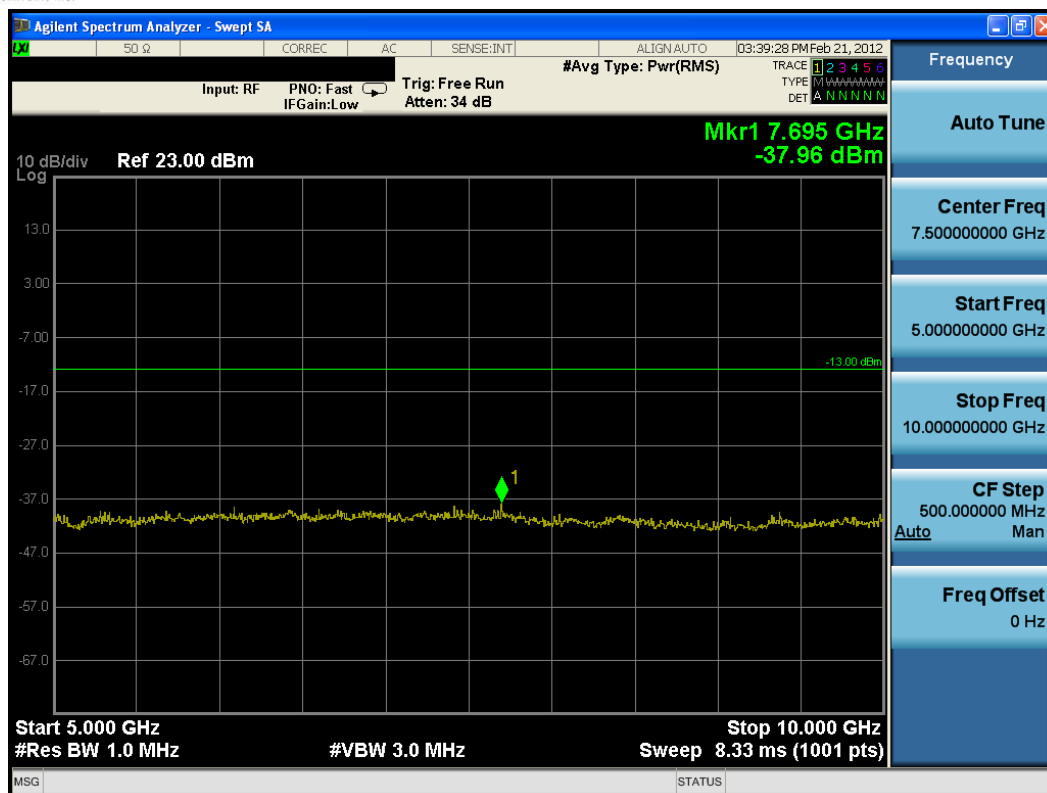


Plot 8-10. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

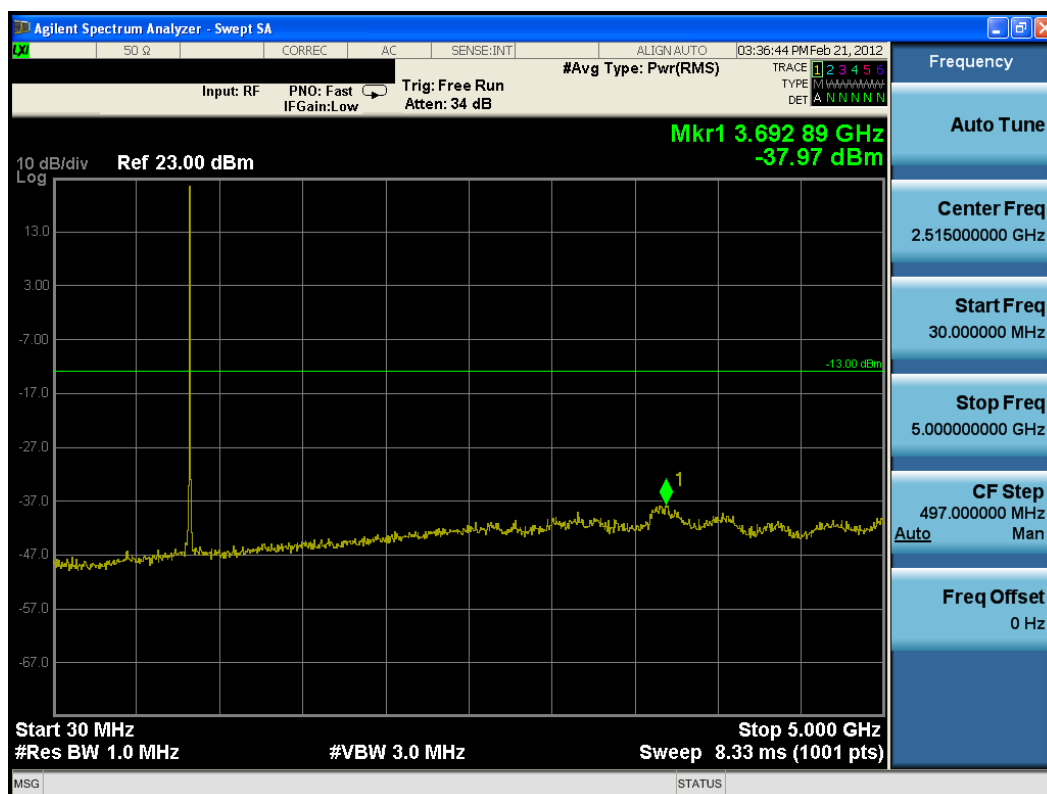


Plot 8-11. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
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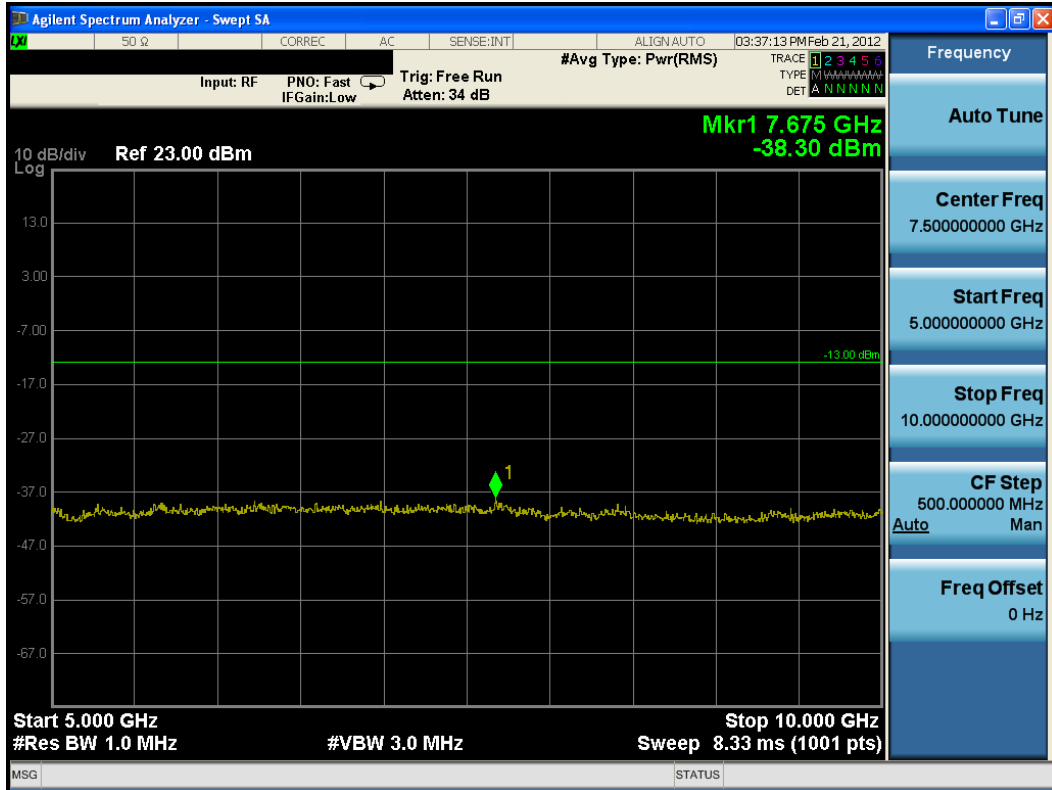


Plot 8-12. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

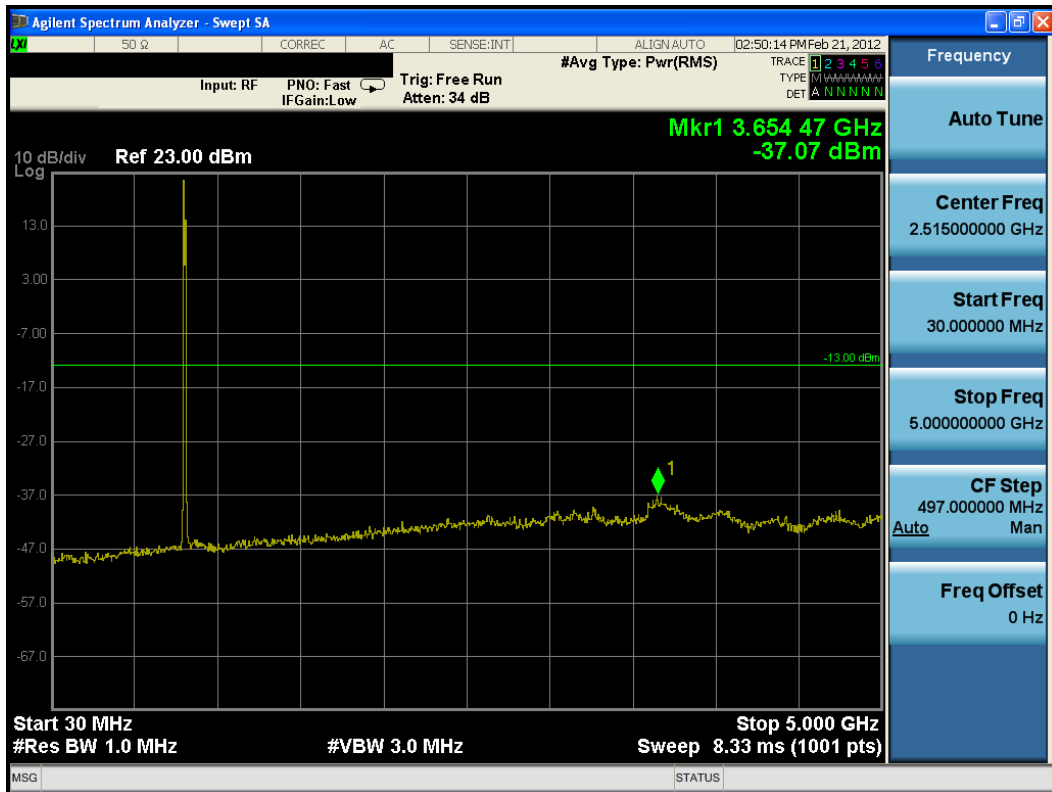


Plot 8-13. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
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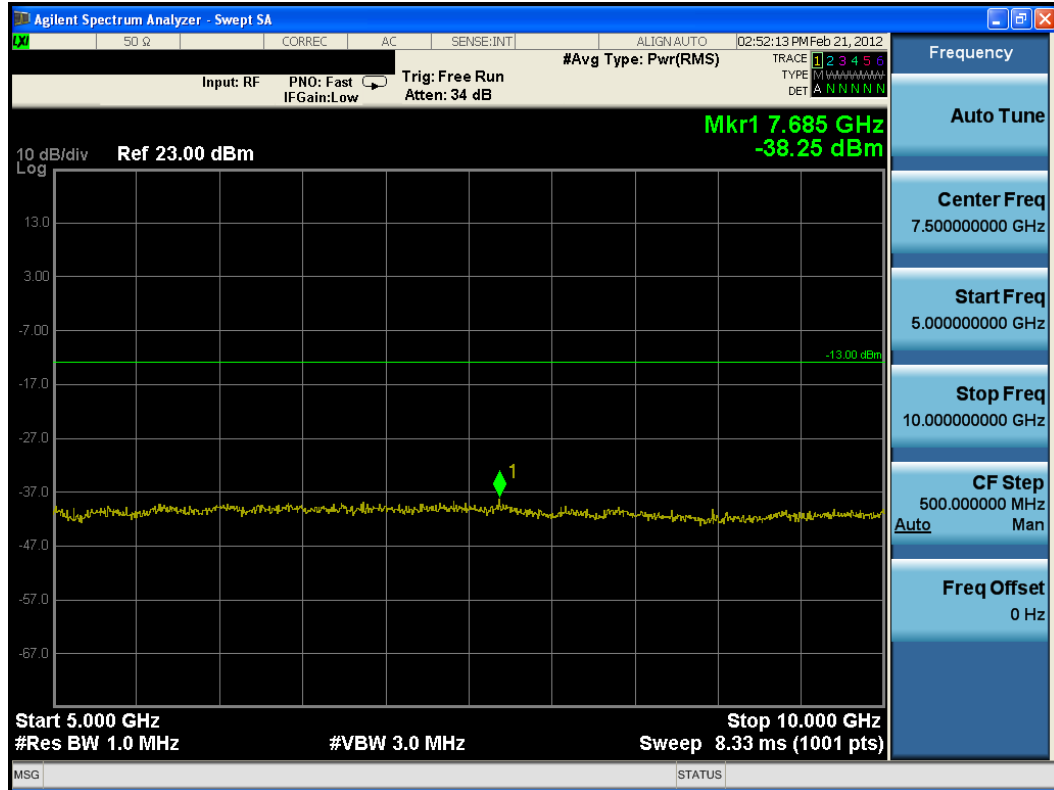


Plot 8-14. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

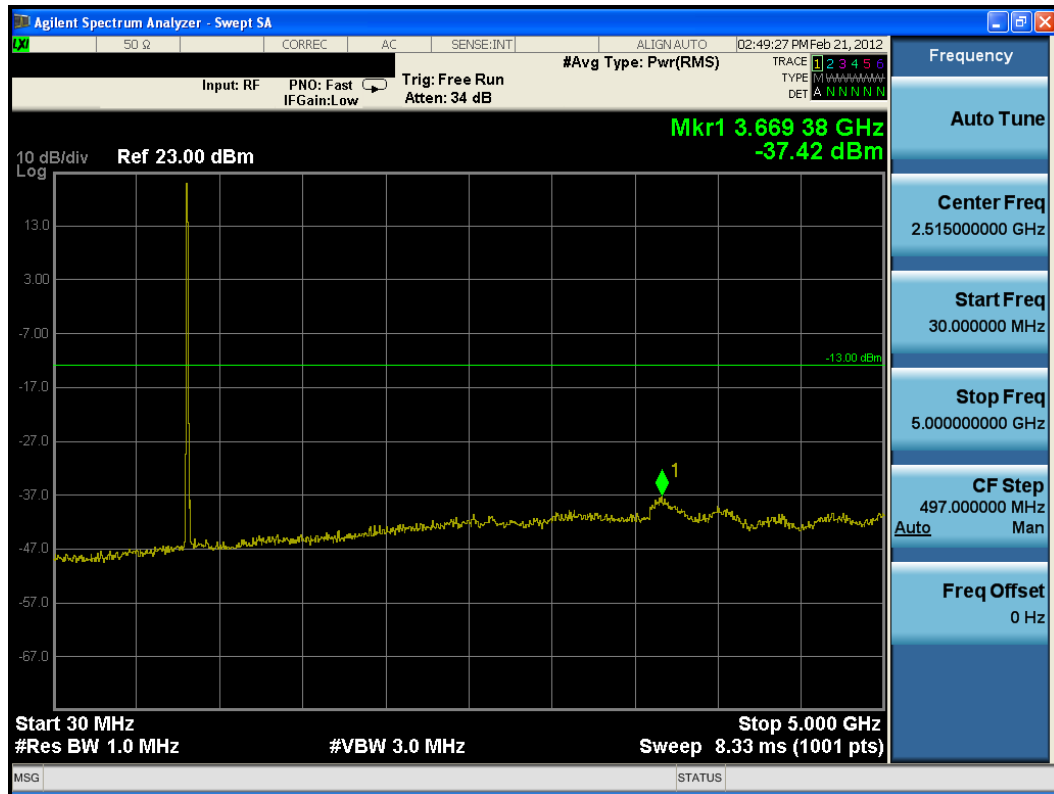


Plot 8-15. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

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|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 66 of 110 |

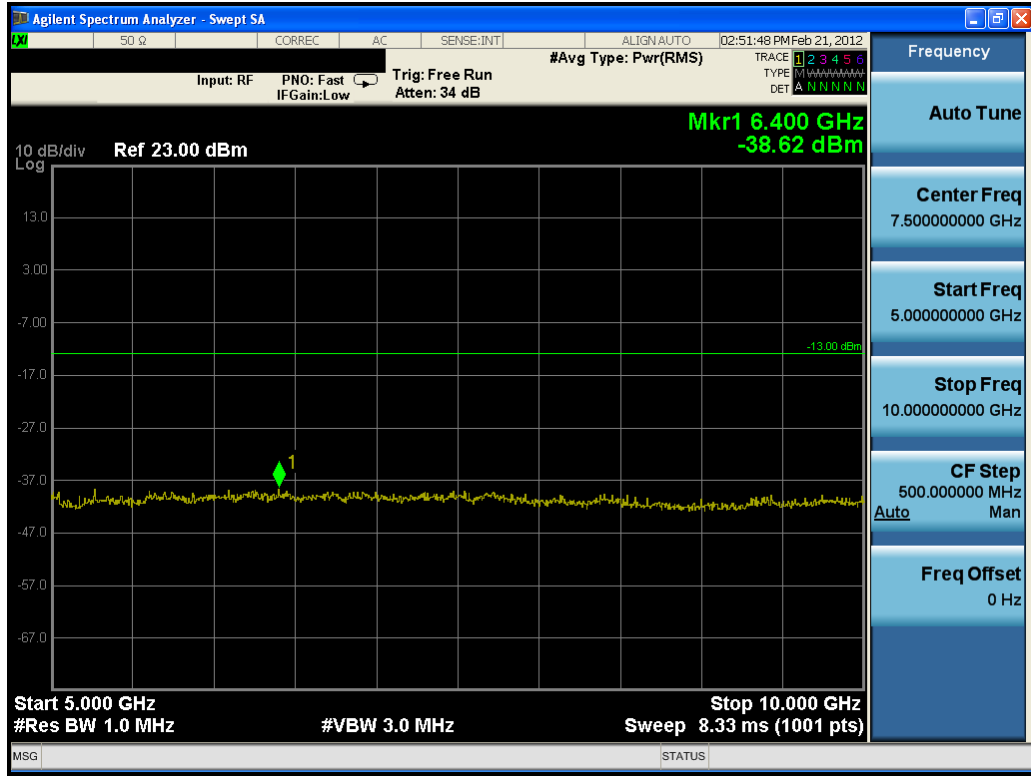


Plot 8-16. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

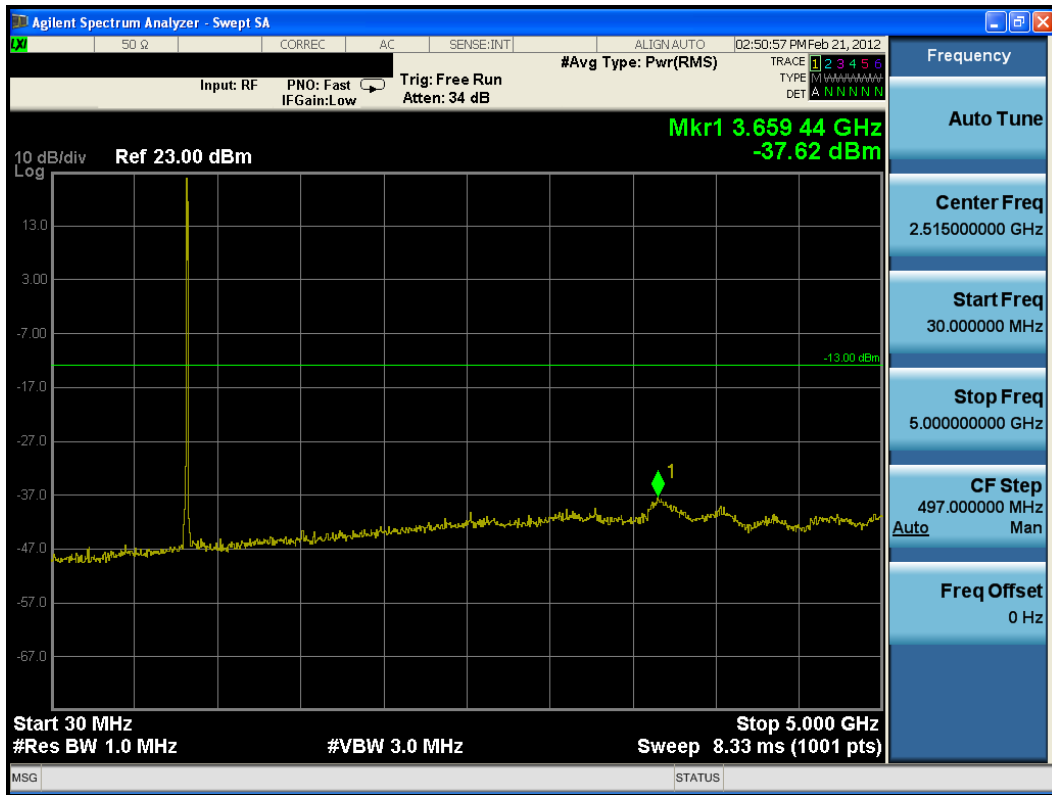


Plot 8-17. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

| | | | | |
|--------------------------------------|--|--|---------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 67 of 110 |

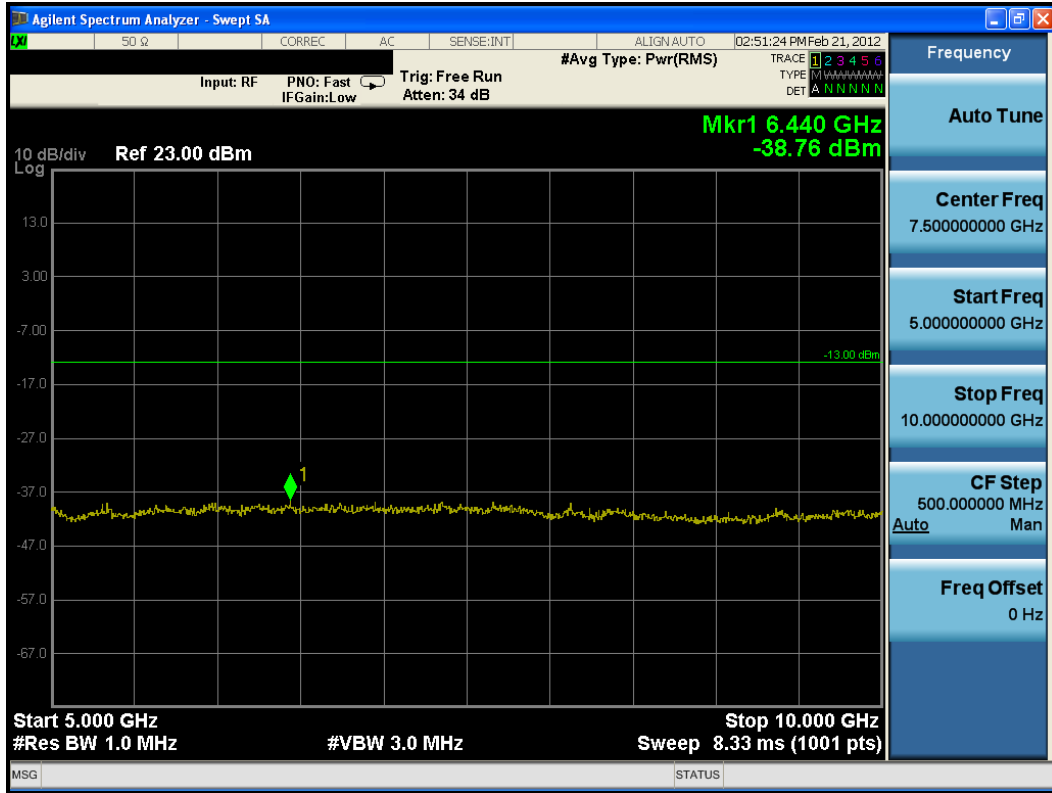


Plot 8-18. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

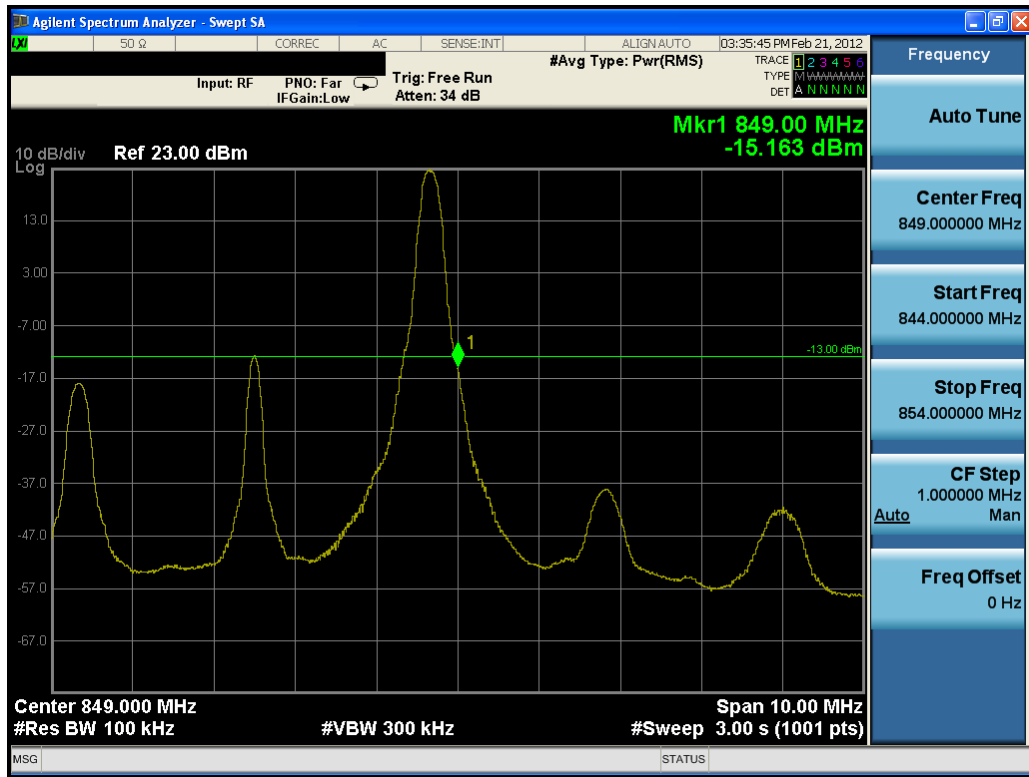


Plot 8-19. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 68 of 110 |



Plot 8-20. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

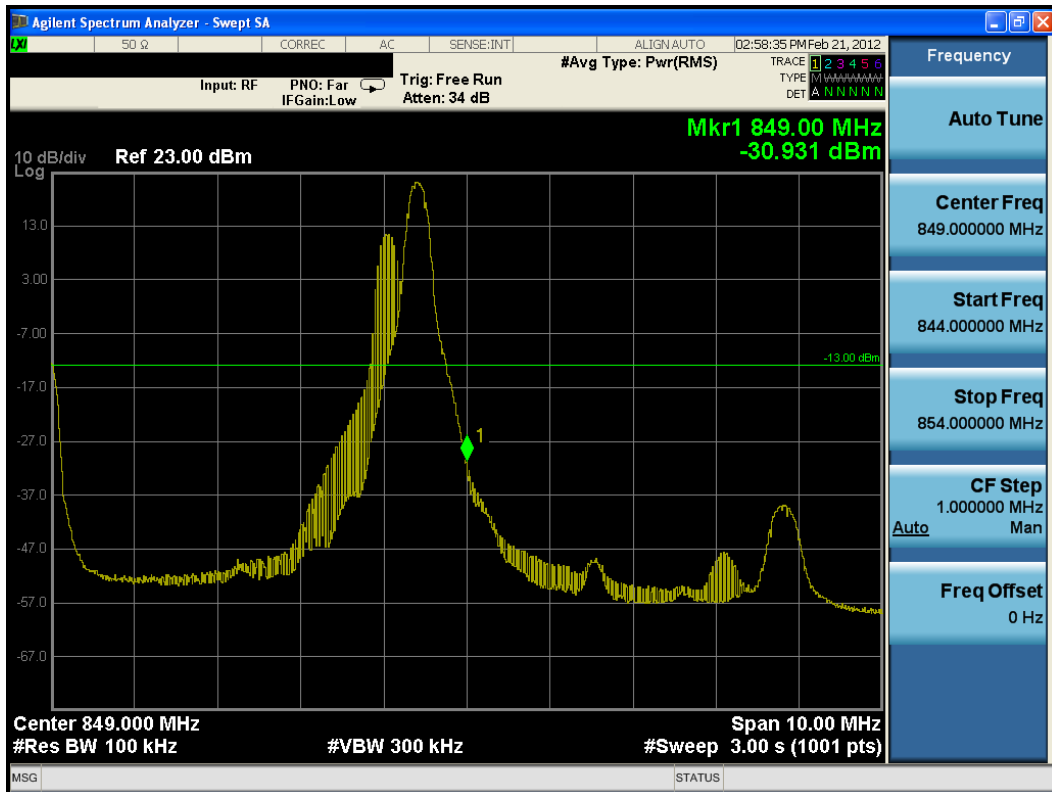


Plot 8-21. Upper Band Edge Plot (5MHz QPSK – RB Size 1, Offset 24)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 69 of 110 |



Plot 8-22. Upper Band Edge Plot (5MHz QPSK – RB Size 25, Offset 0)



Plot 8-23. Upper Band Edge Plot (10MHz QPSK – RB Size 1, Offset 49)

| | | | | |
|-----------------------------------|----------------------------------|---|--|------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 70 of 110 |

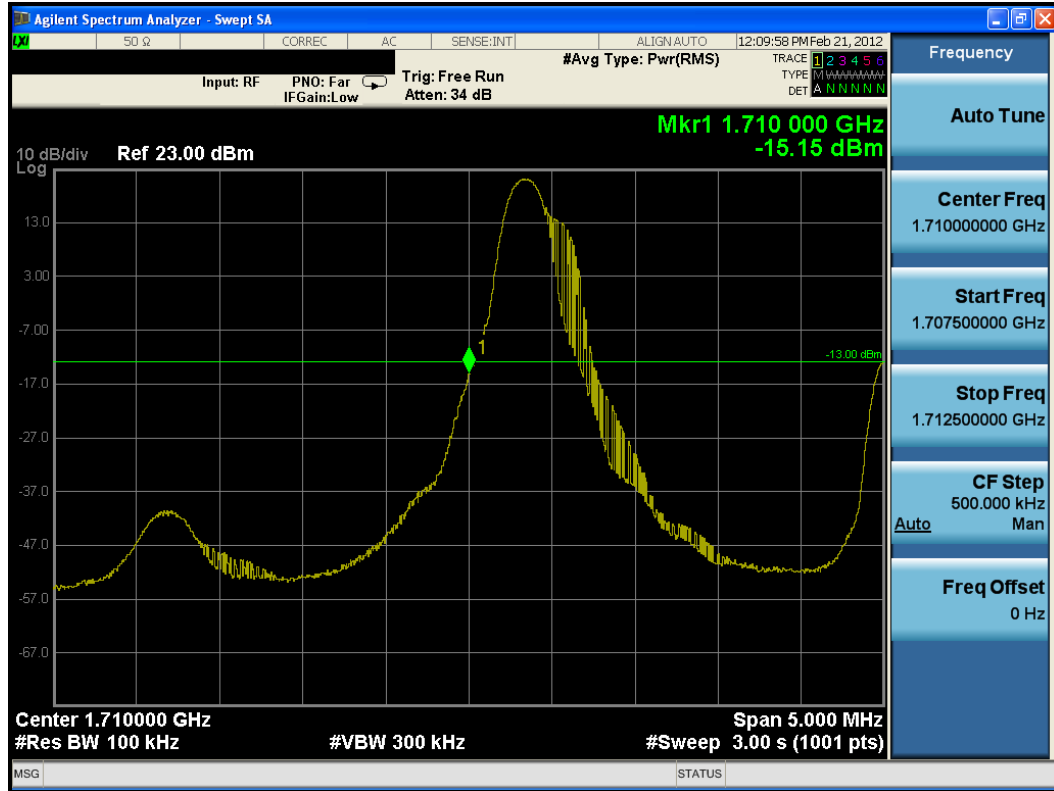


Plot 8-24. Upper Band Edge Plot (10MHz QPSK – RB Size 50, Offset 0)

| | | | | |
|--------------------------------------|--|--|---------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 71 of 110 |

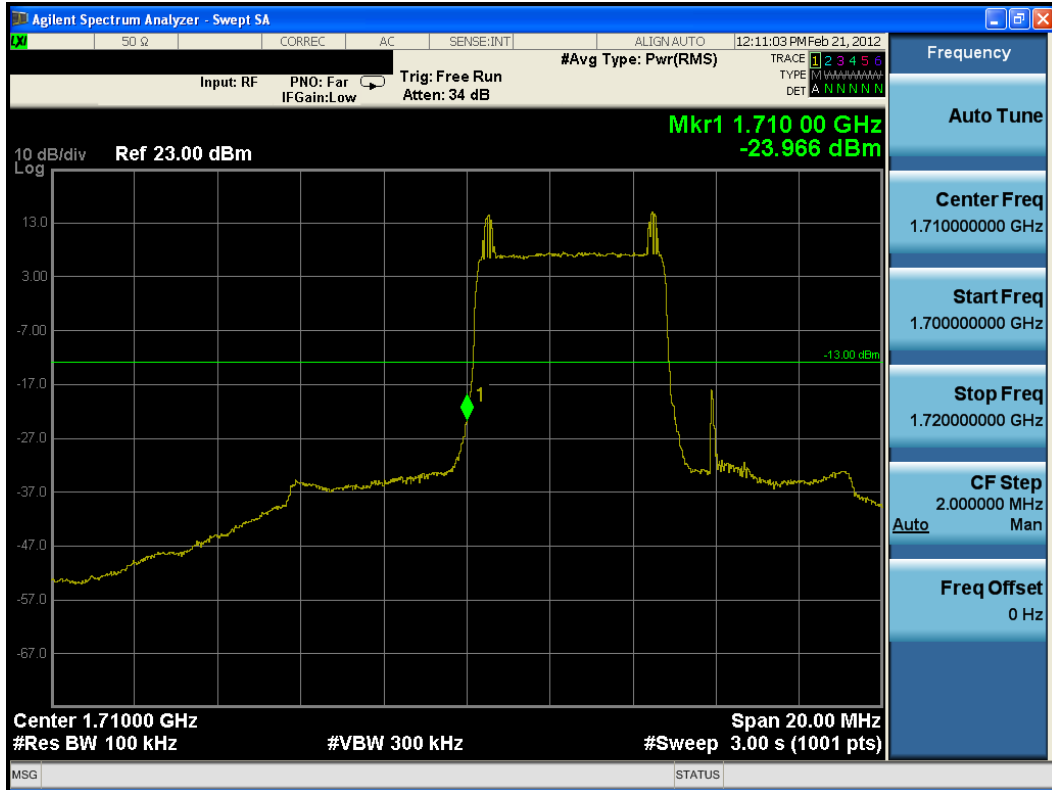
9.0 BAND 4 PLOTS OF EMISSIONS

Note: All bandwidths, RB configurations, and modulations were investigated. The worst case test results are reported below.

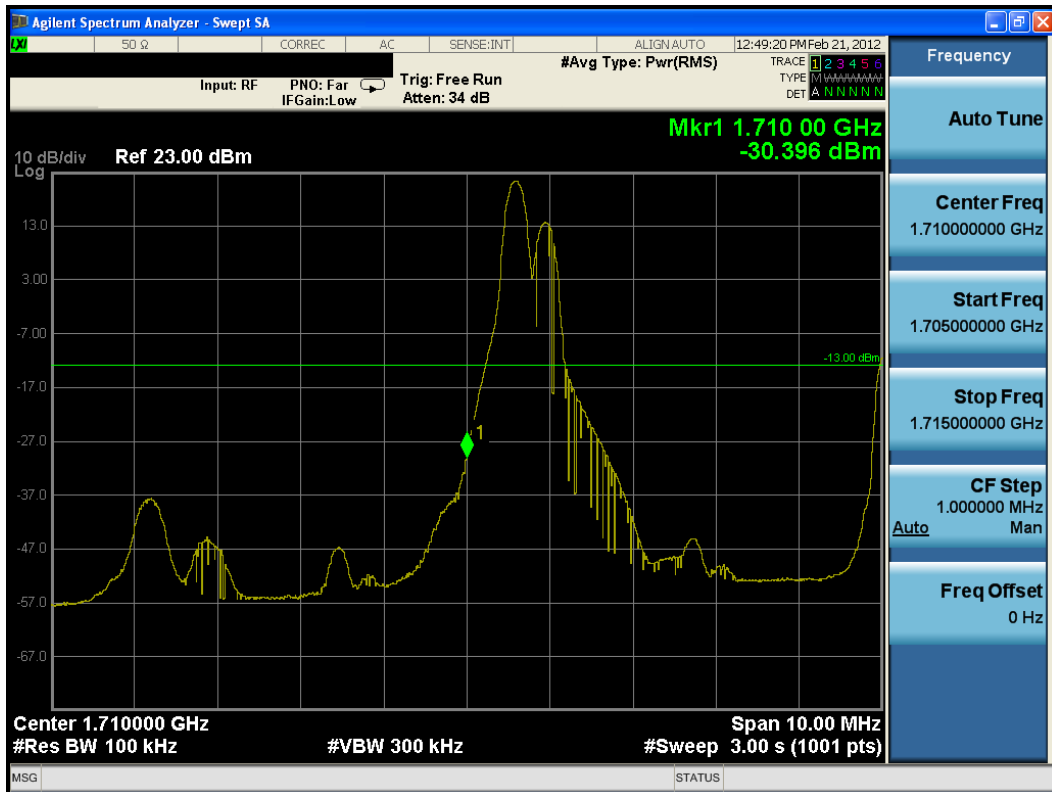


Plot 9-1. Lower Band Edge Plot (5MHz QPSK – RB Size 1, Offset 0)

| | | | | |
|---|--|--|----------------|--|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 72 of 110 | |

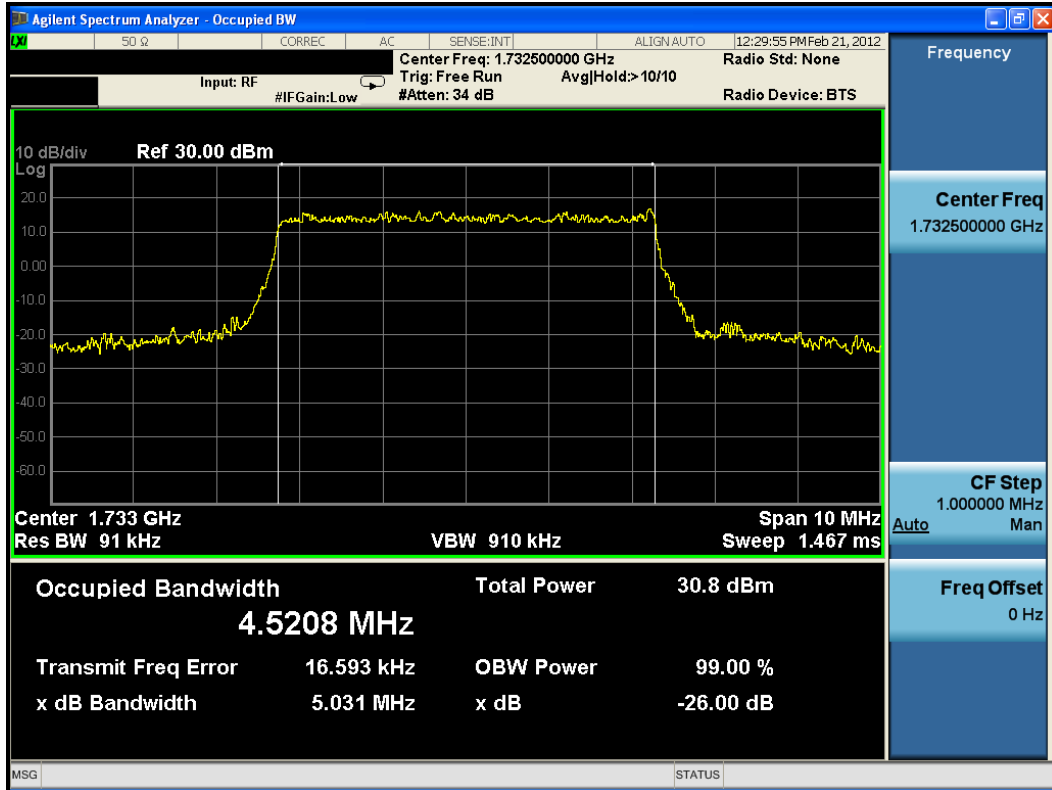


Plot 9-2. Lower Band Edge Plot (5MHz QPSK – RB Size 25, Offset 0)

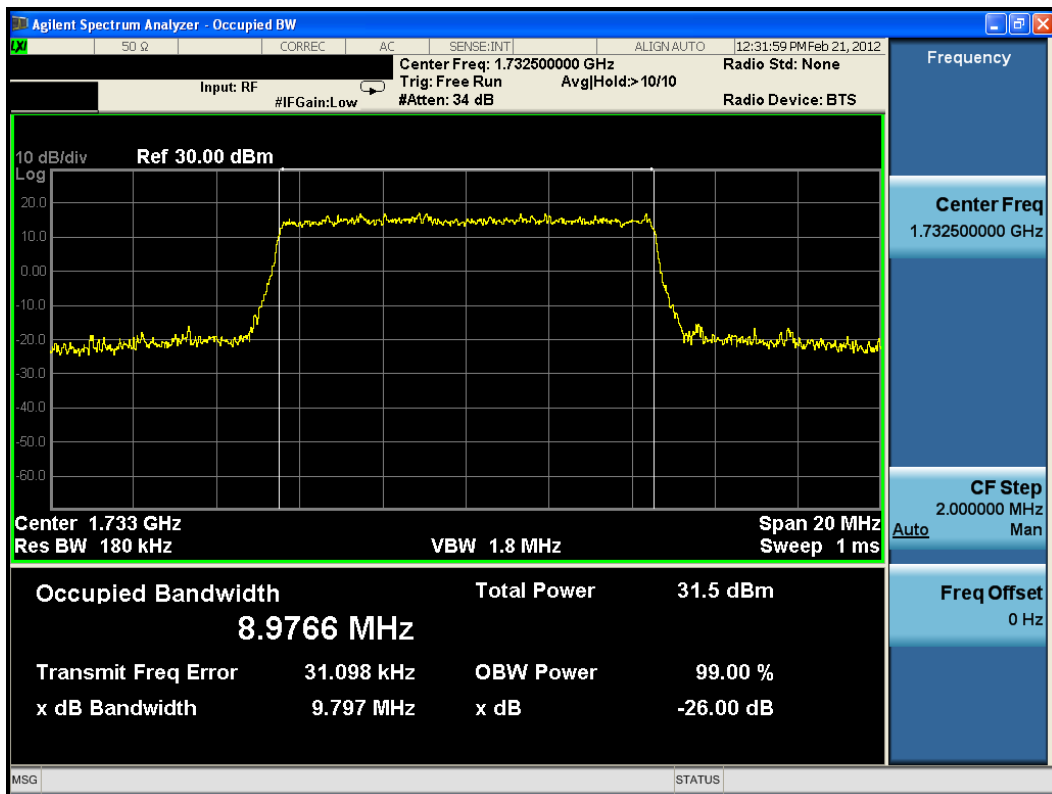


Plot 9-3. Lower Band Edge Plot (10MHz QPSK – RB Size 1, Offset 0)

| | | | | |
|--------------------------------------|--|--|---------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 73 of 110 |

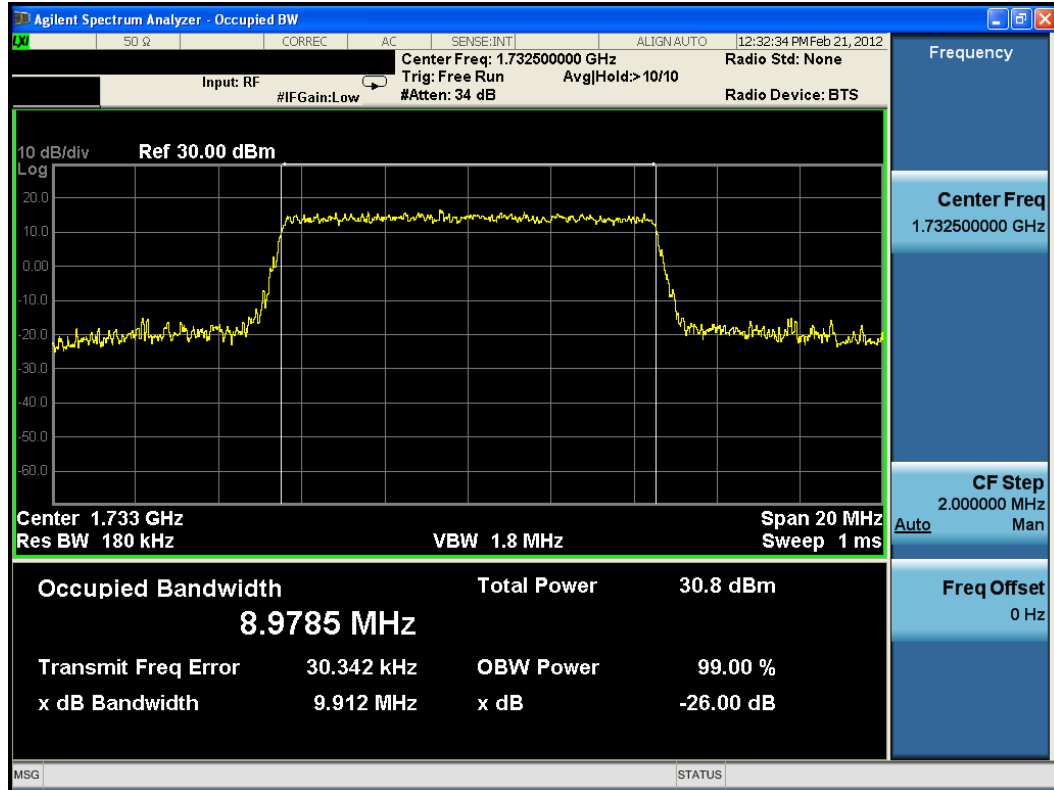


Plot 9-6. Occupied Bandwidth Plot (5MHz 16-QAM – RB Size 25)

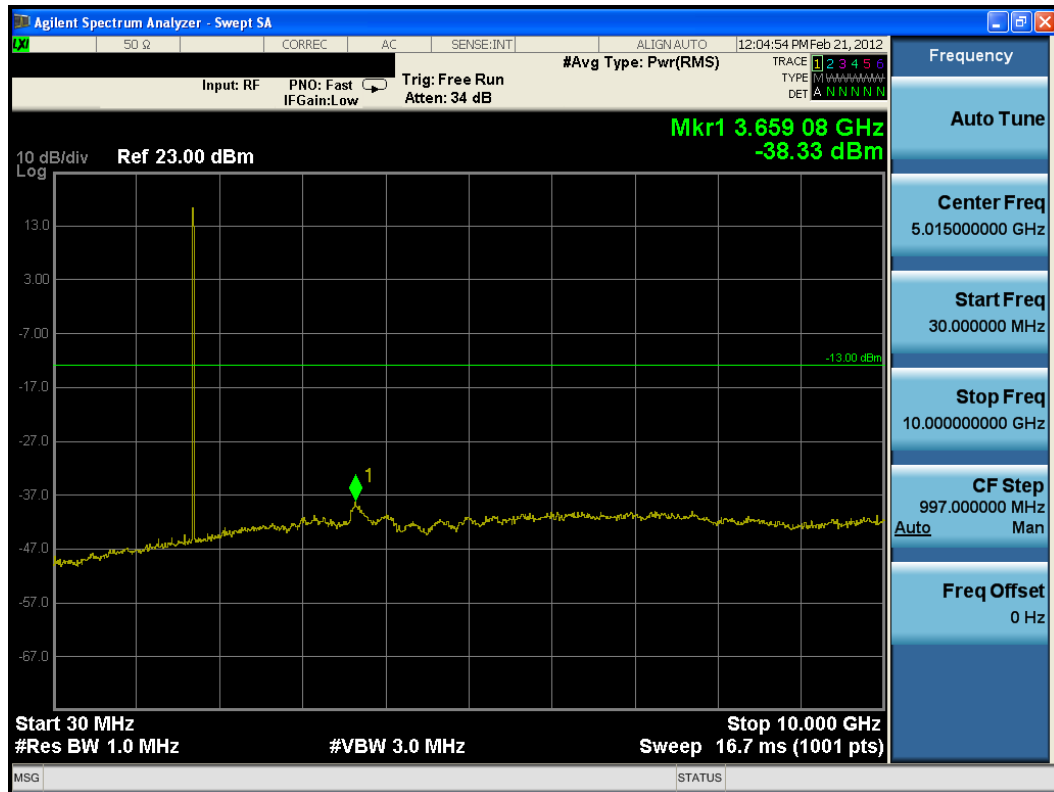


Plot 9-7. Occupied Bandwidth Plot (10MHz QPSK – RB Size 50)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 75 of 110 |

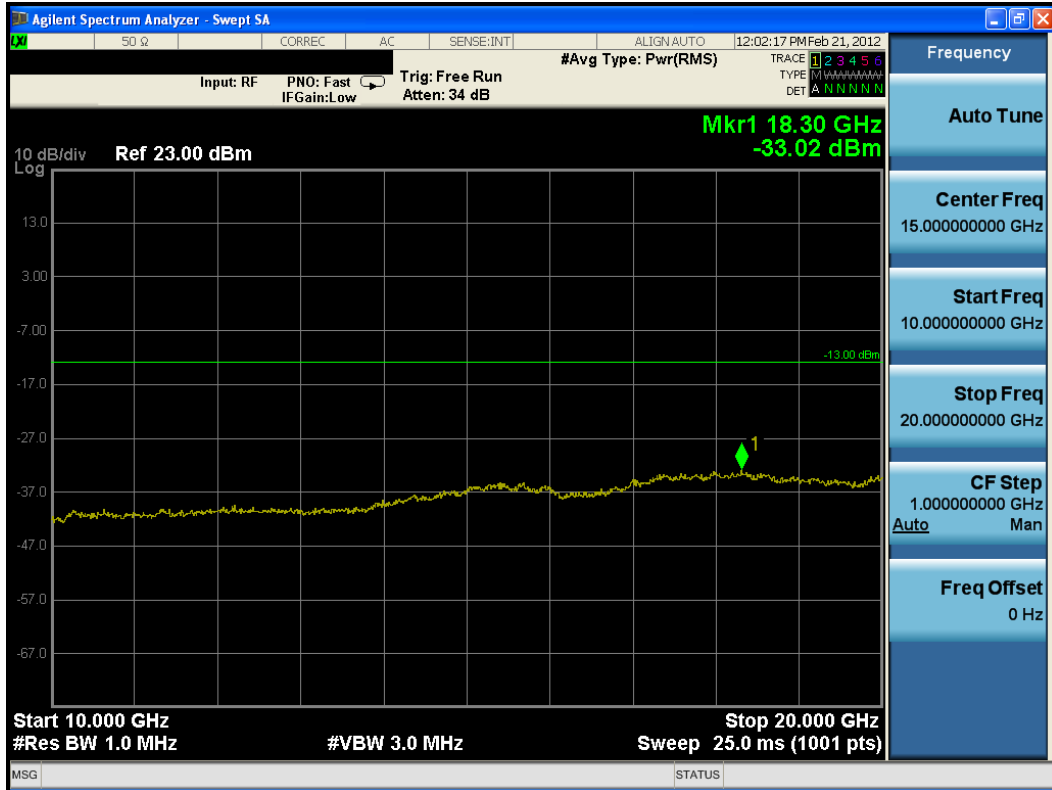


Plot 9-8. Occupied Bandwidth Plot (10MHz 16-QAM – RB Size 50)

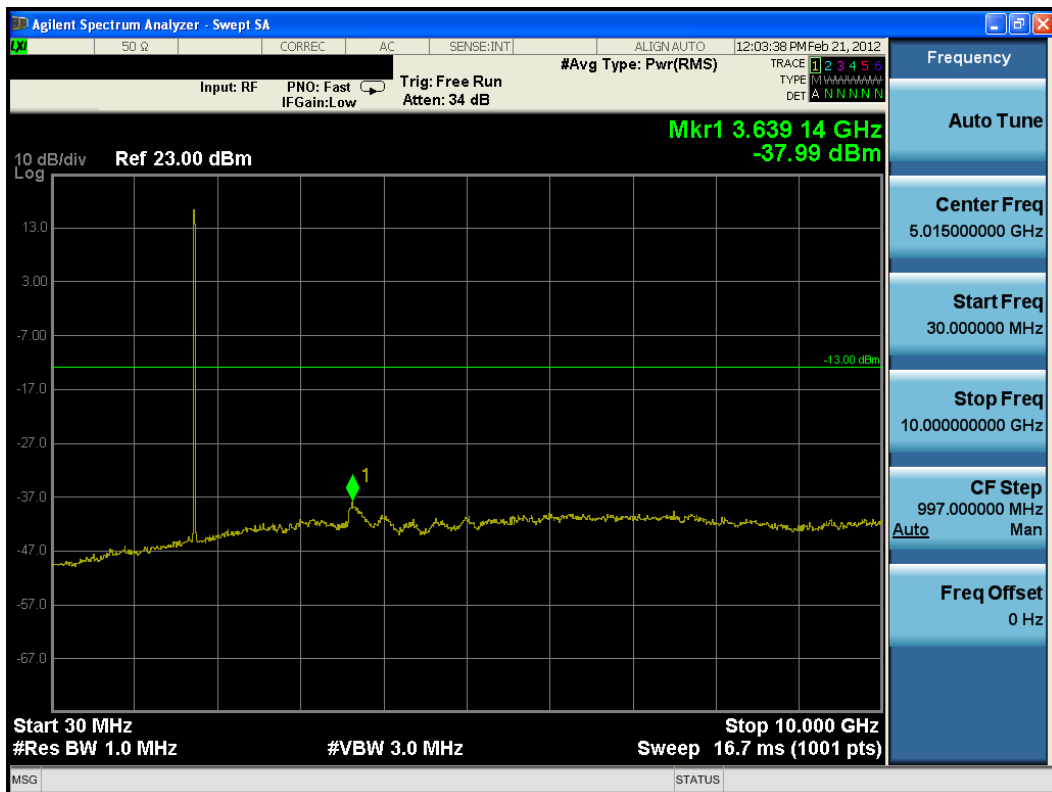


Plot 9-9. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 76 of 110 |



Plot 9-12. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

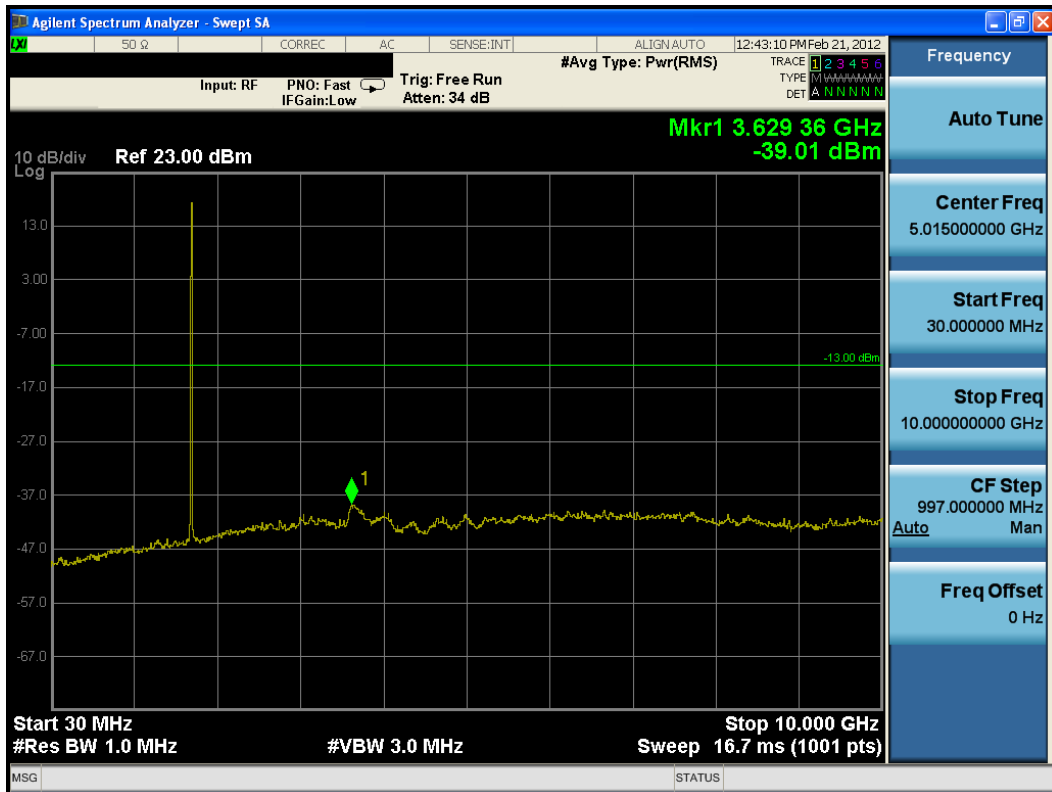


Plot 9-13. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 78 of 110 |

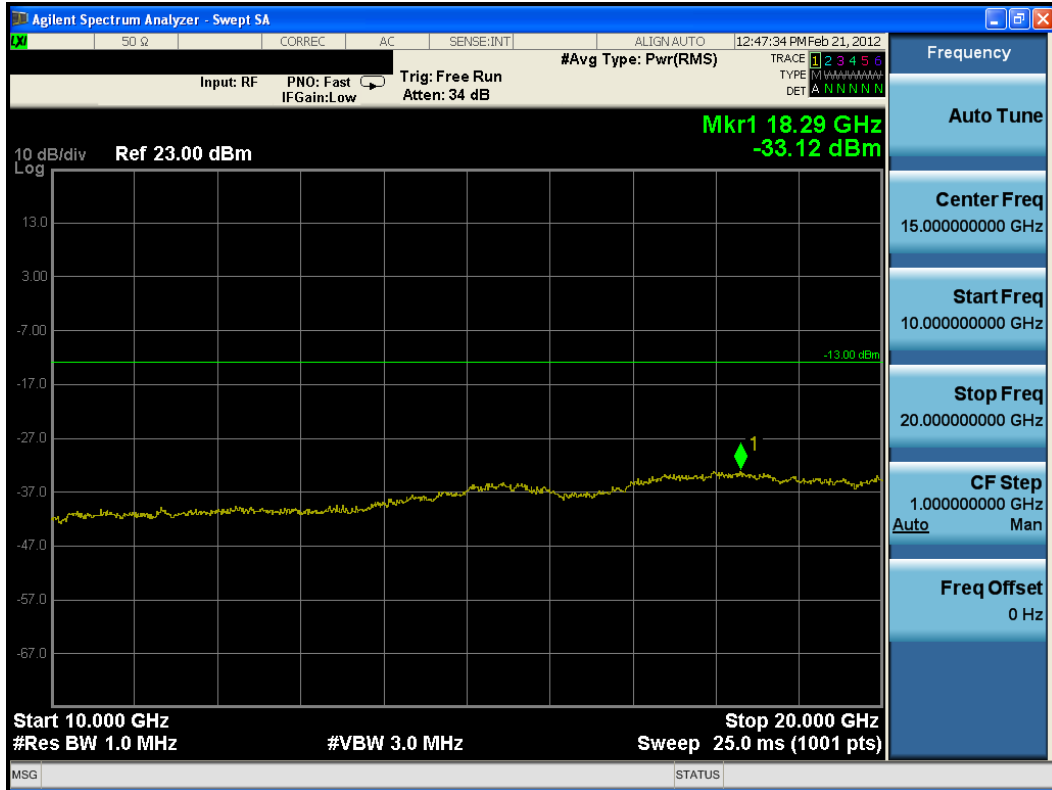


Plot 9-14. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

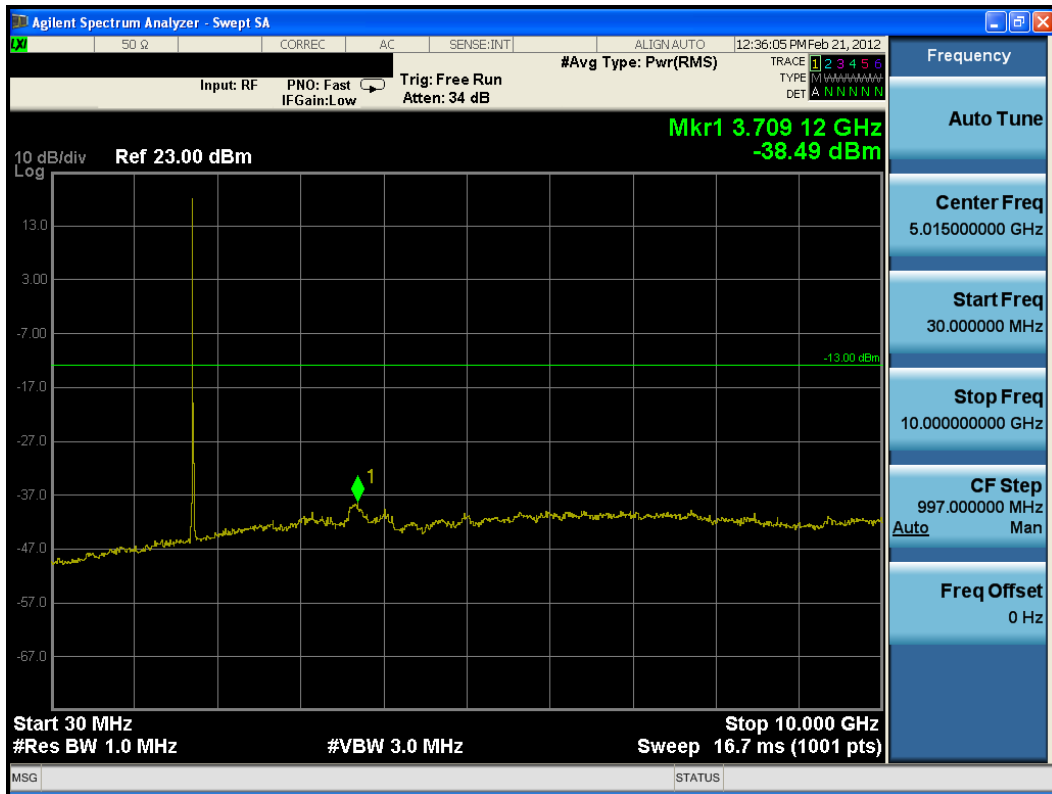


Plot 9-15. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

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|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 79 of 110 |

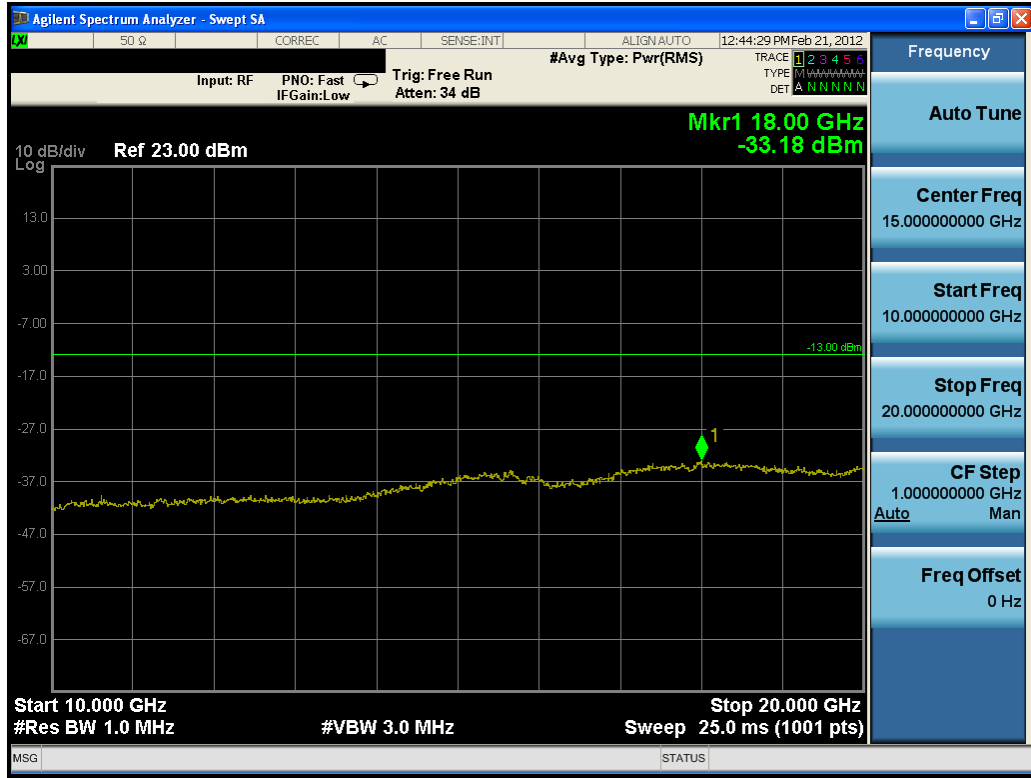


Plot 9-16. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

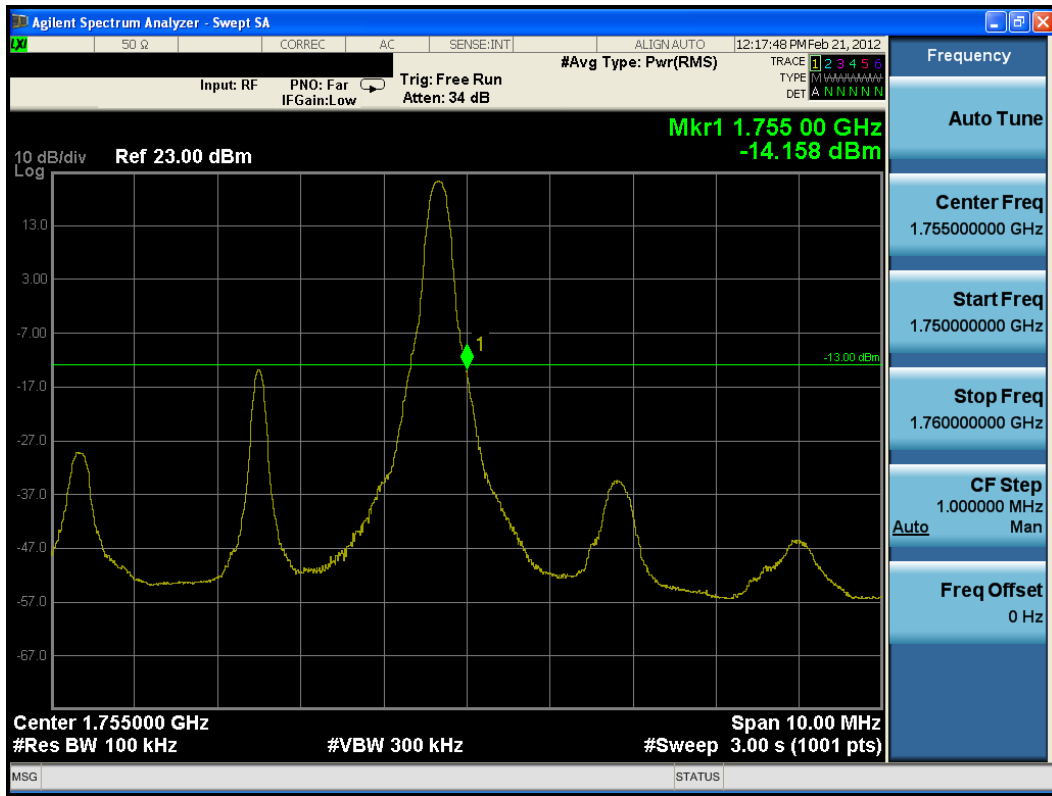


Plot 9-17. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 80 of 110 |



Plot 9-20. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

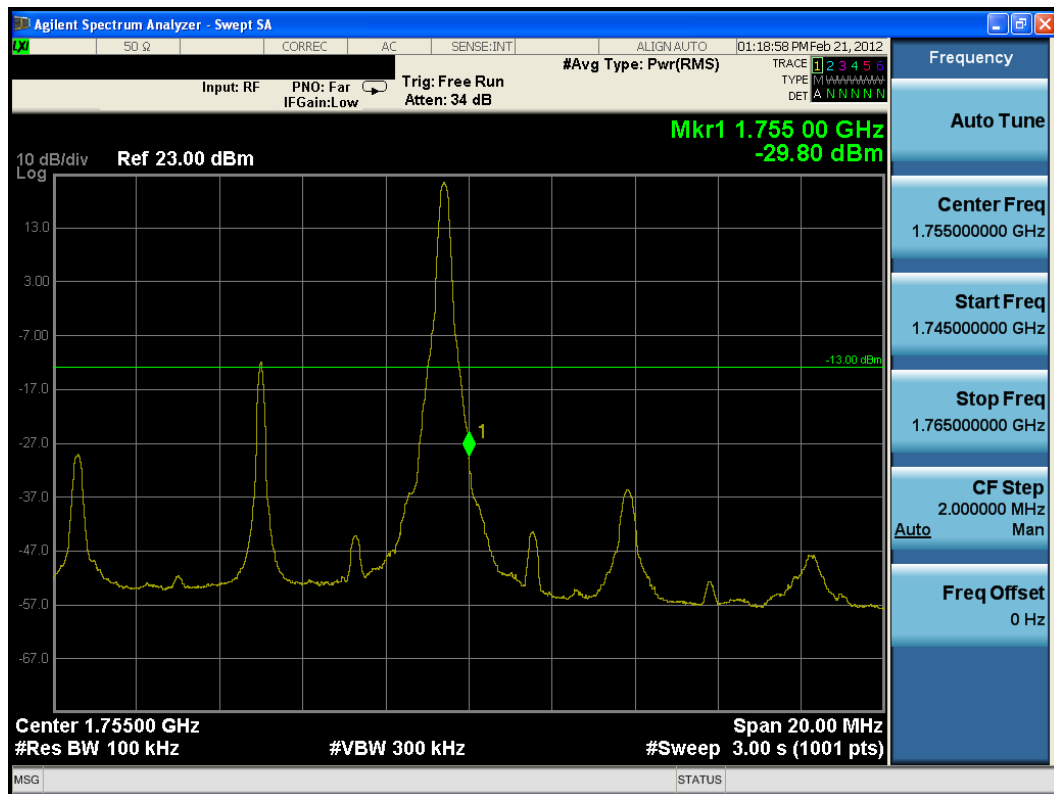


Plot 9-21. Upper Band Edge Plot (5MHz QPSK – RB Size 1, Offset 24)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 82 of 110 |

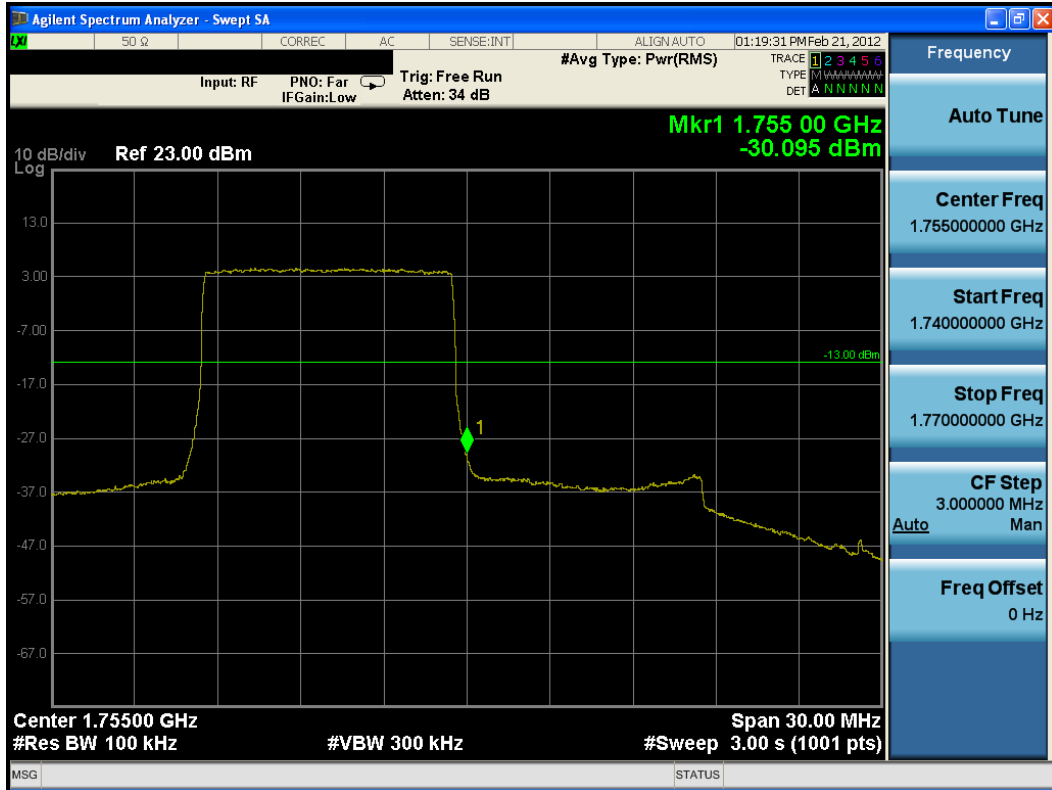


Plot 9-22. Upper Band Edge Plot (5MHz QPSK – RB Size 25, Offset 0)

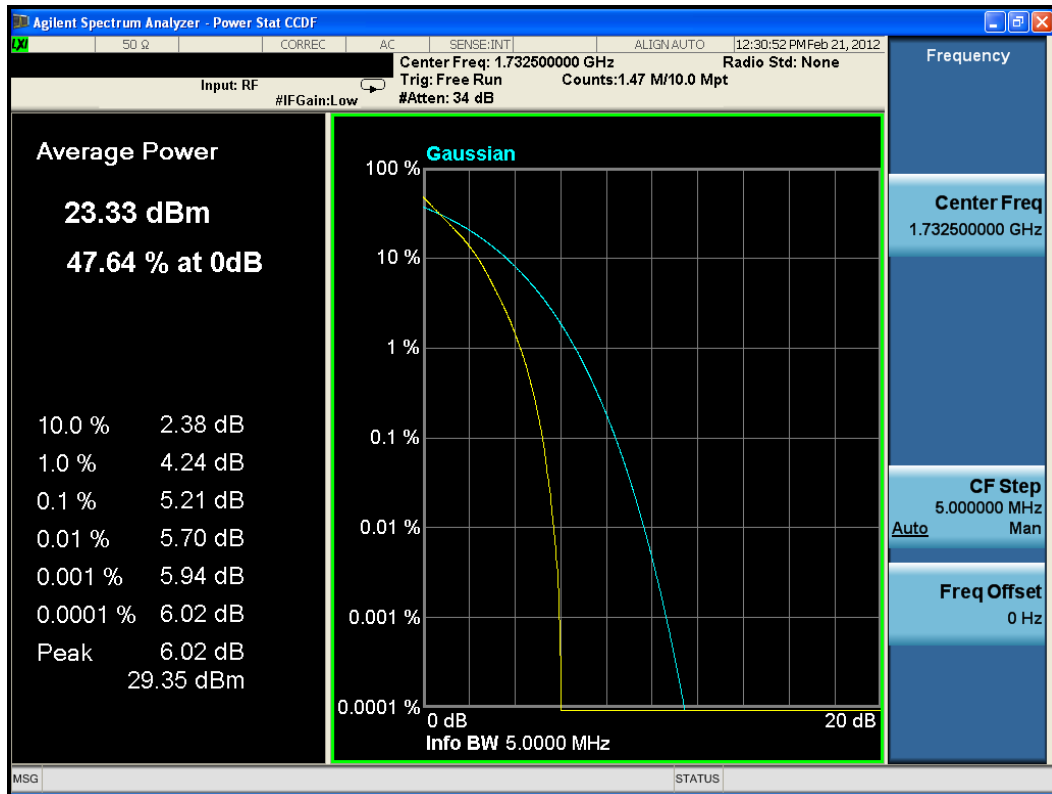


Plot 9-23. Upper Band Edge Plot (10MHz QPSK – RB Size 1, Offset 49)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 83 of 110 |

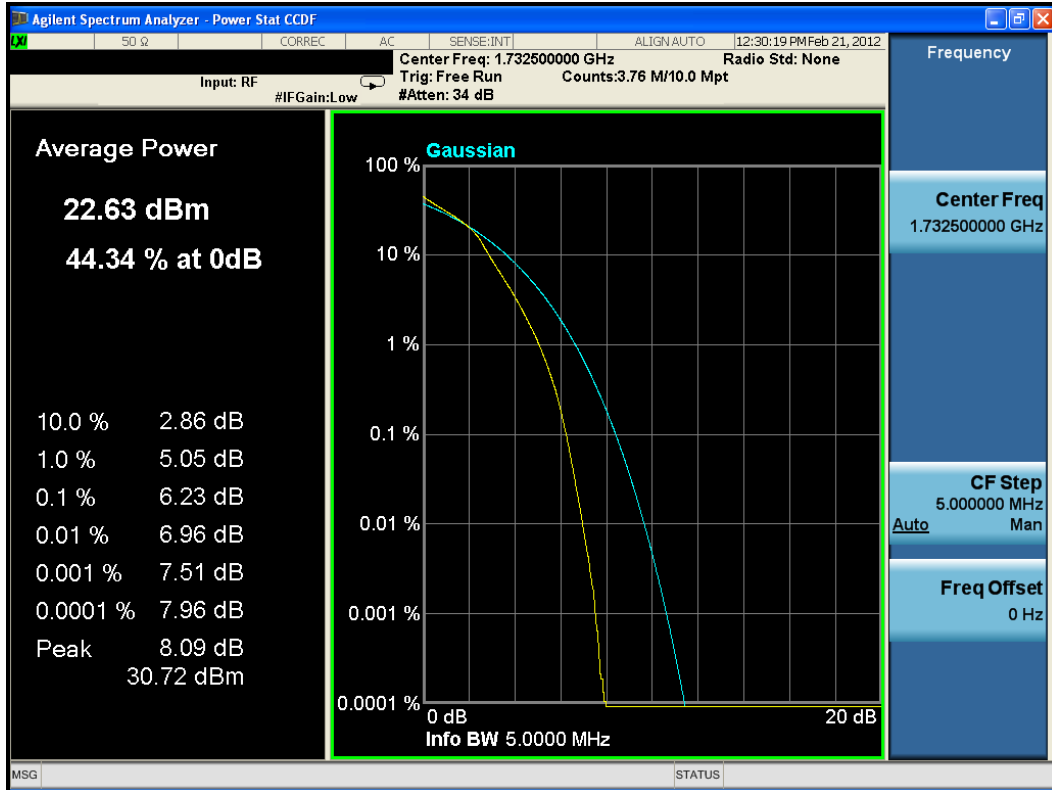


Plot 9-24. Upper Band Edge Plot (10MHz QPSK – RB Size 50, Offset 0)

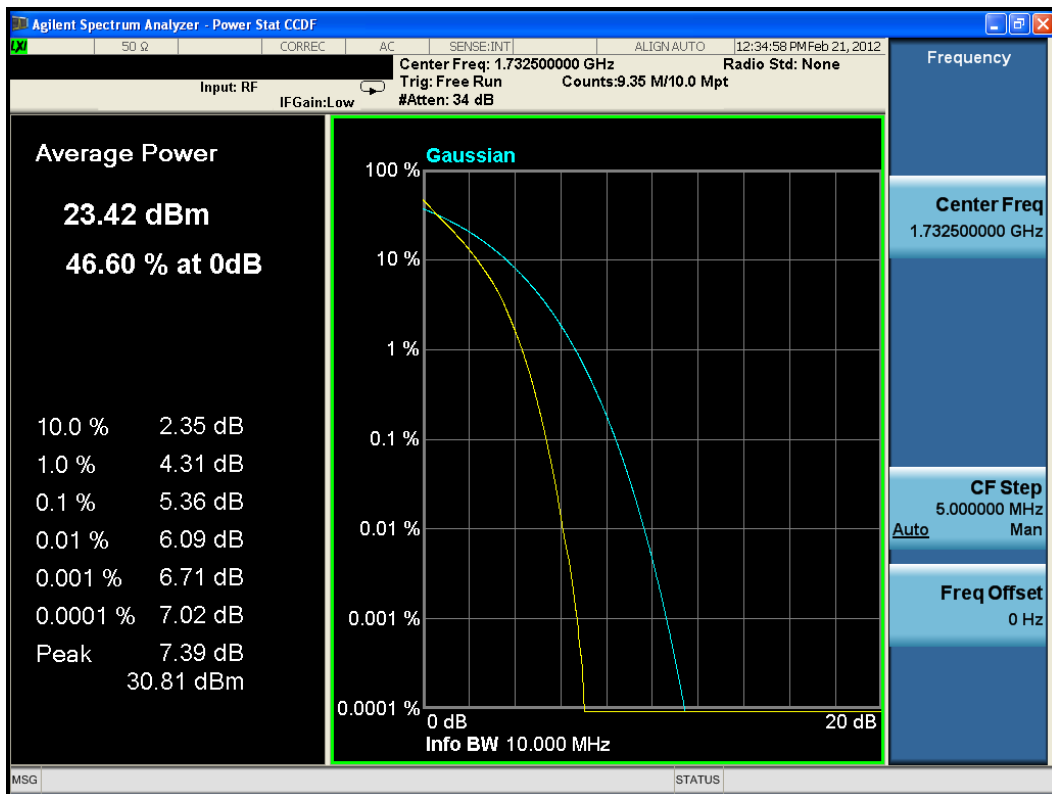


Plot 9-25. PAR Plot (5MHz QPSK – RB Size 25)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 84 of 110 |

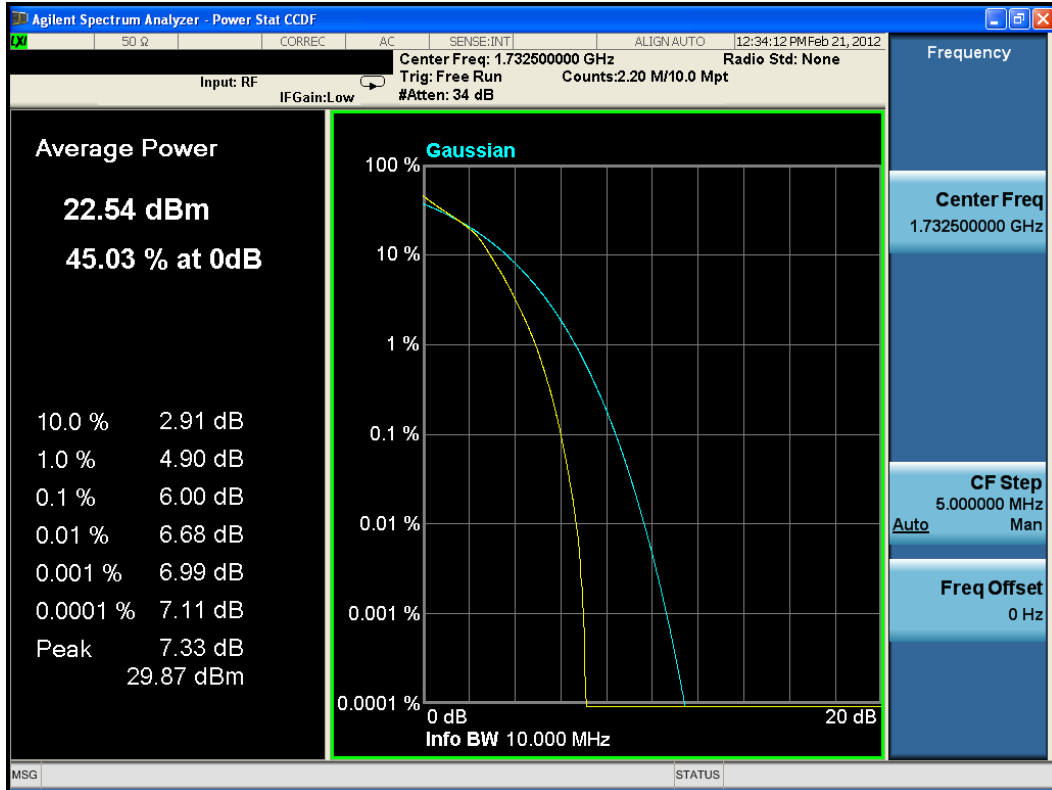


Plot 9-26. PAR Plot (5MHz 16QAM – RB Size 25)

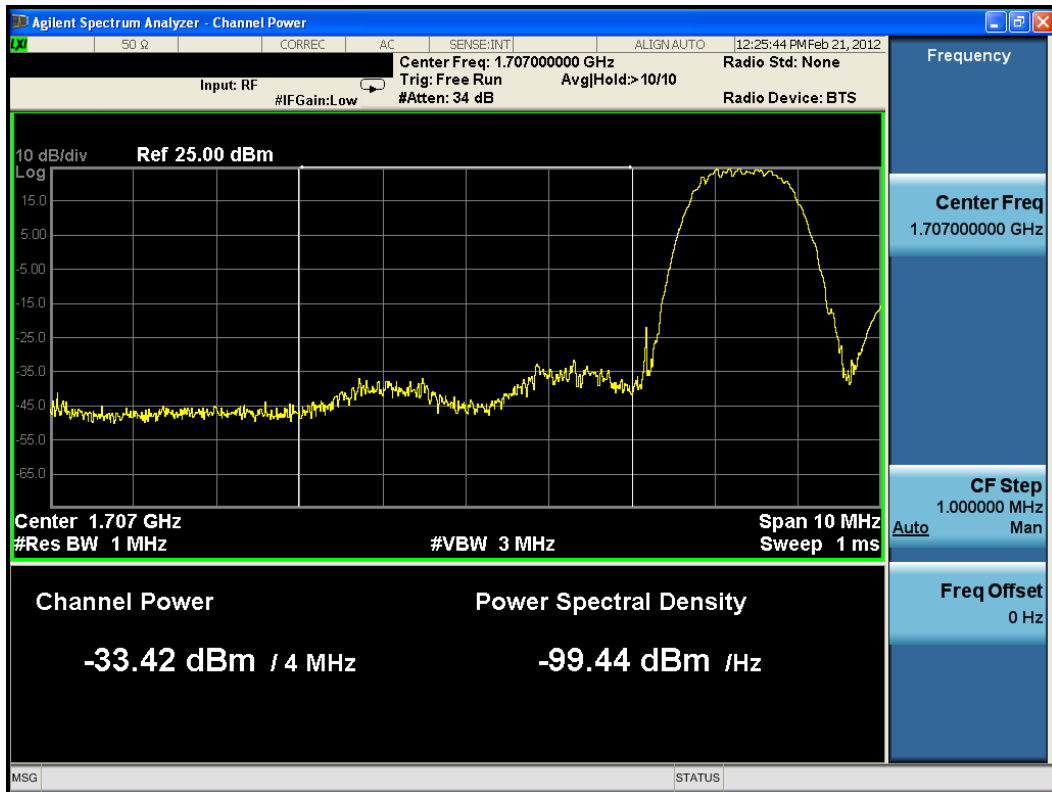


Plot 9-27. PAR Plot (10MHz QPSK – RB Size 50)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 85 of 110 |

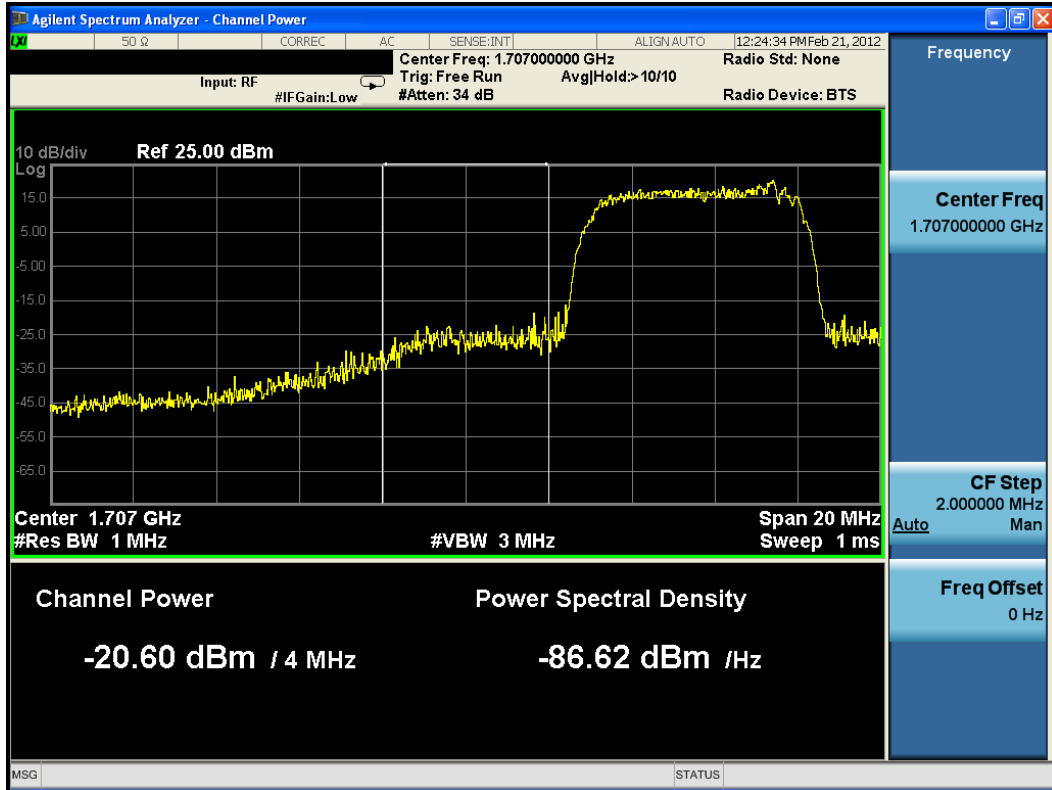


Plot 9-28. PAR Plot (10MHz 16QAM – RB Size 50)

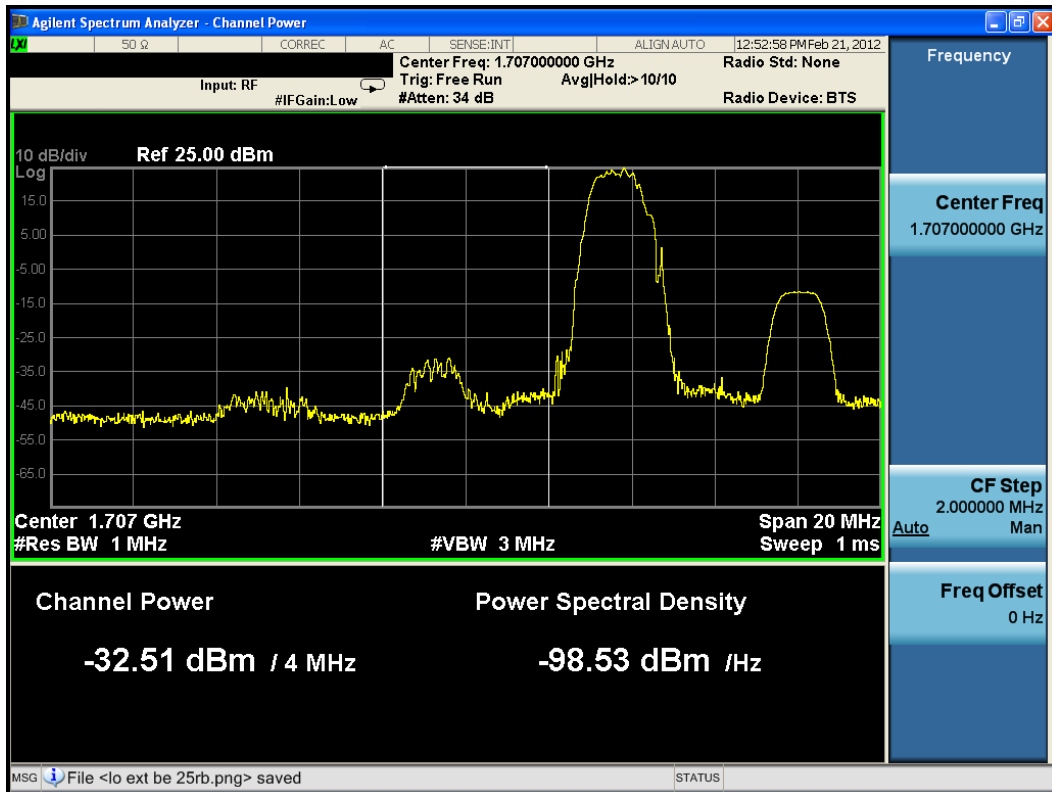


Plot 9-29. Lower Extended Band Edge Plot (5MHz QPSK– RB Size 1, Offset 0)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 86 of 110 |

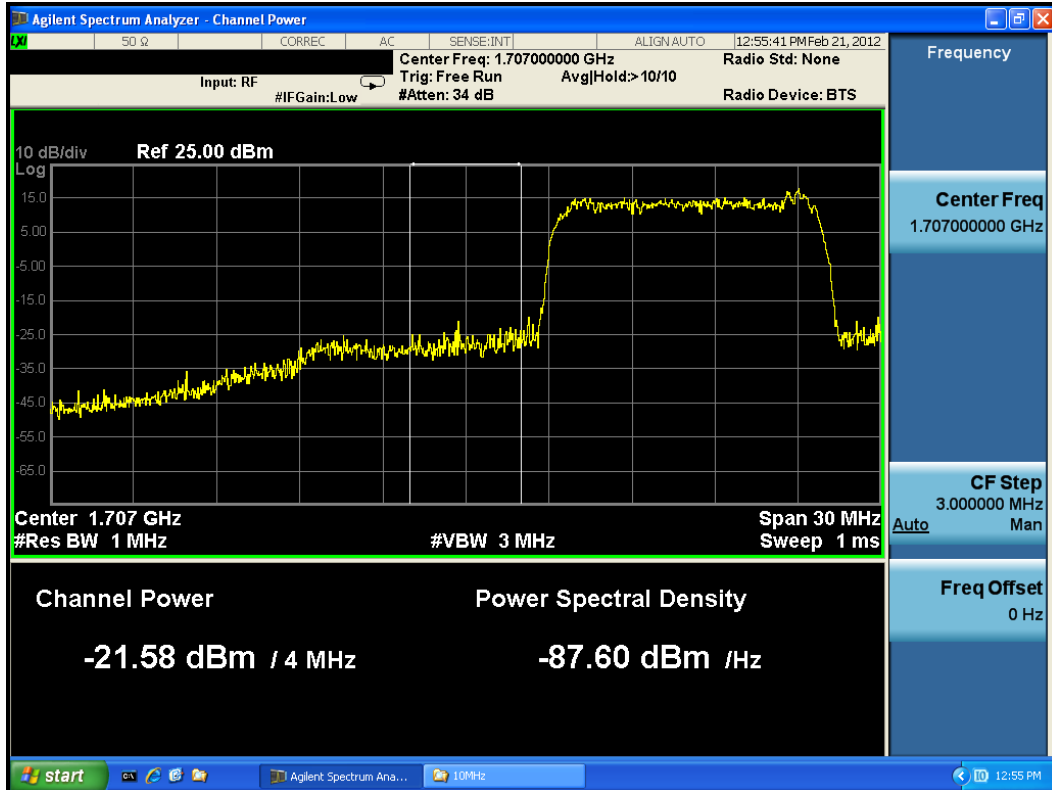


Plot 9-30. Lower Extended Band Edge Plot (5MHz QPSK– RB Size 25,Offset 0)

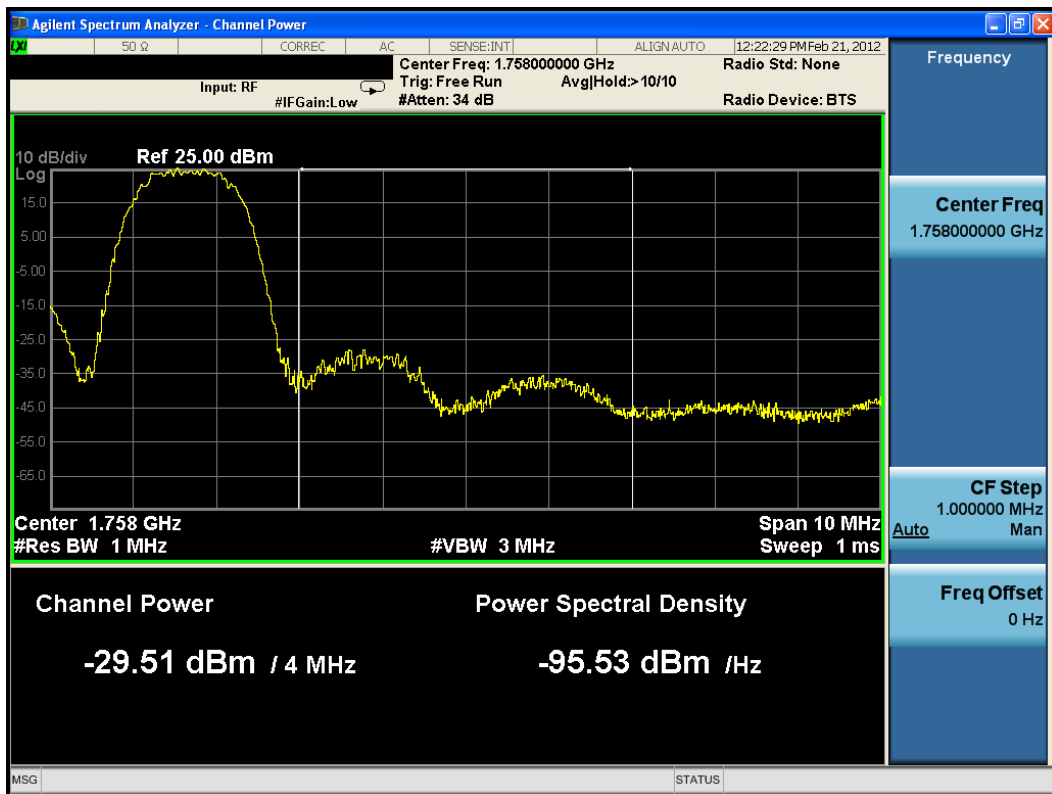


Plot 9-31. Lower Extended Band Edge Plot (10MHz QPSK– RB Size 1,Offset 0)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 87 of 110 |



Plot 9-32. Lower Extended Band Edge Plot (10MHz QPSK– RB Size 50, Offset 0)

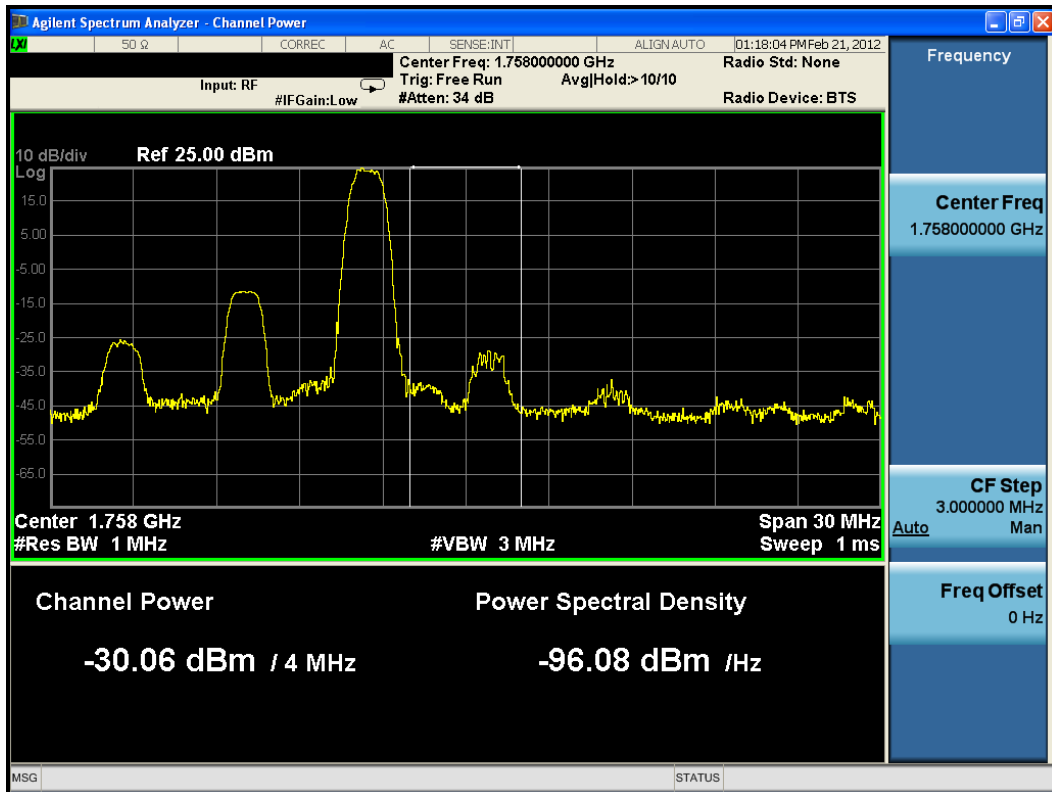


Plot 9-33. Upper Extended Band Edge Plot (5MHz QPSK– RB Size 1, Offset 24)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 88 of 110 |

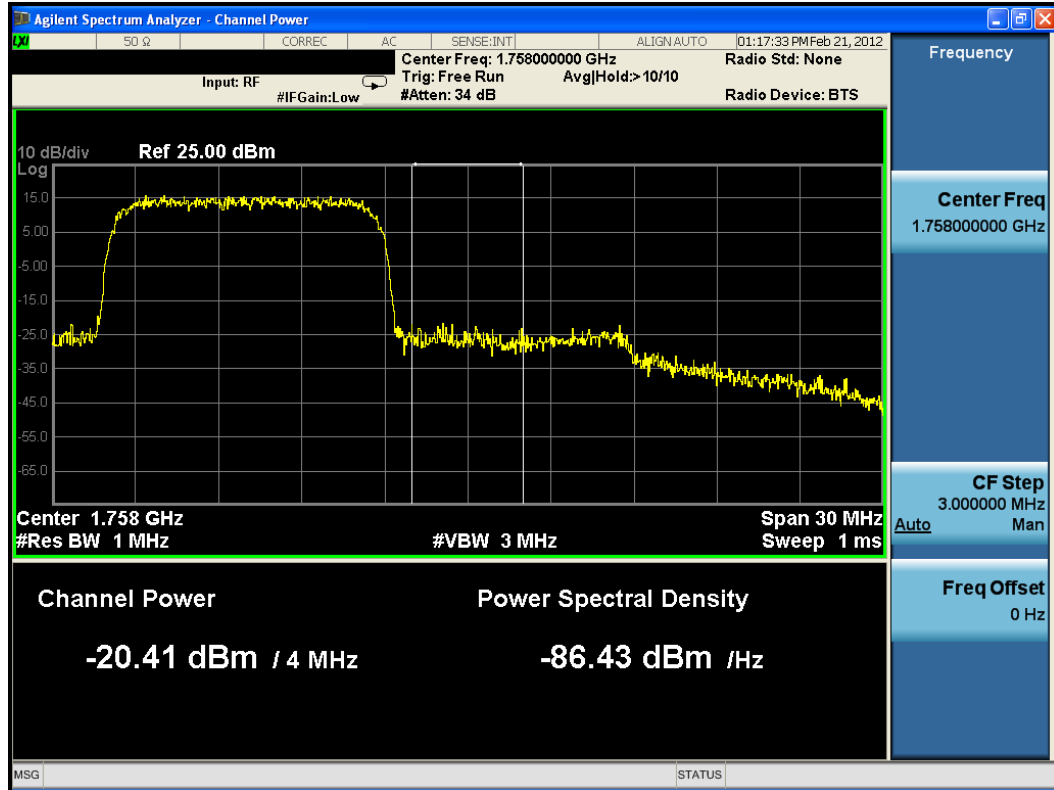


Plot 9-34. Upper Extended Band Edge Plot (5MHz QPSK– RB Size 25, Offset 0)



Plot 9-35. Upper Extended Band Edge Plot (10MHz QPSK– RB Size 1, Offset 49)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 89 of 110 |

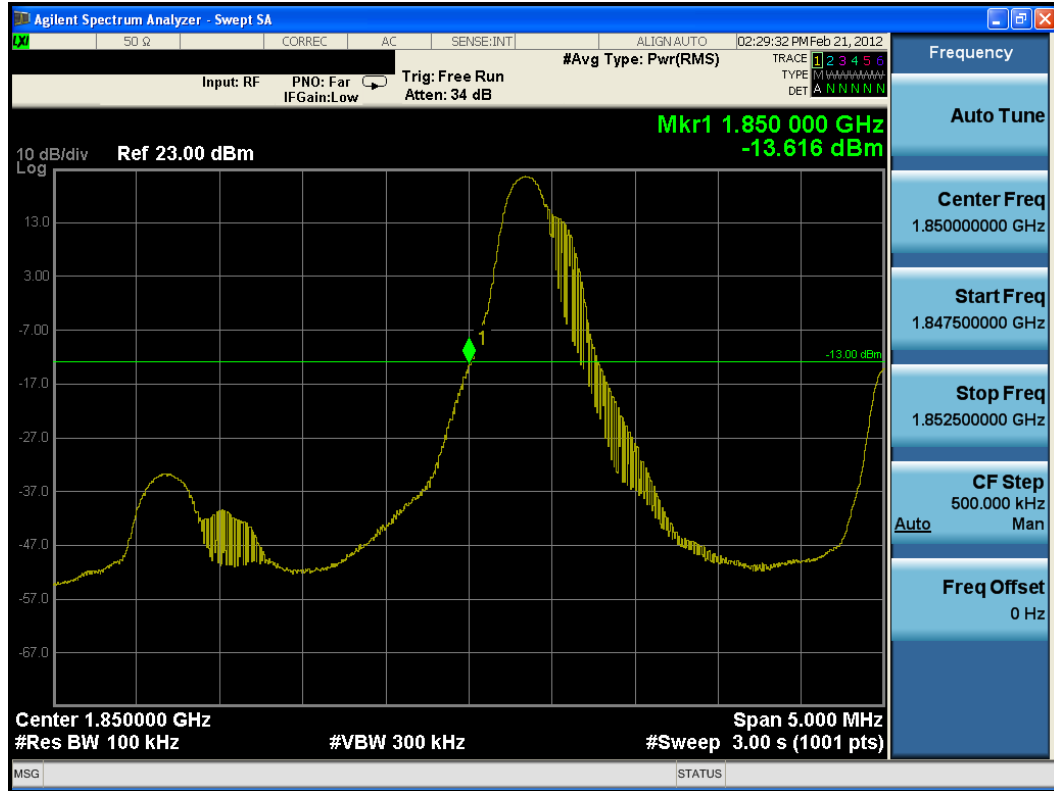


Plot 9-36. Upper Extended Band Edge Plot (10MHz QPSK– RB Size 50, Offset 0)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 90 of 110 |

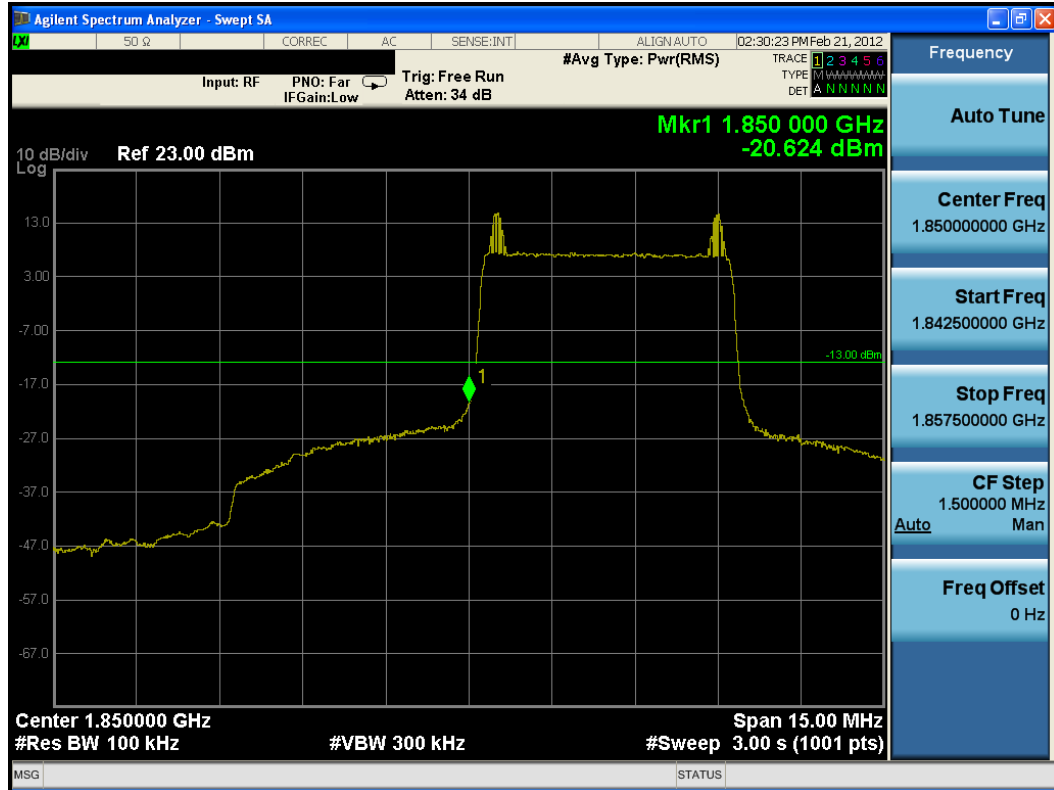
10.0 BAND 2 PLOTS OF EMISSIONS

Note: All bandwidths, RB configurations, and modulations were investigated. The worst case test results are reported below.

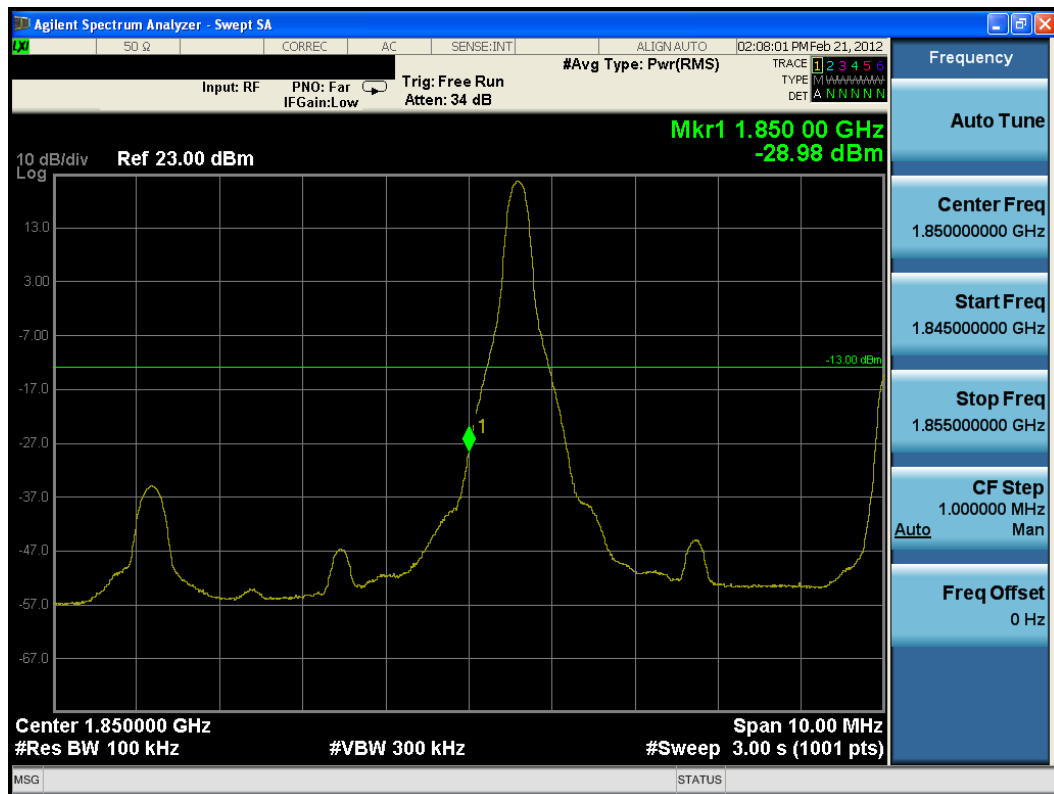


Plot 10-1. Lower Band Edge Plot (5MHz QPSK – RB Size 1, Offset 0)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 91 of 110 |

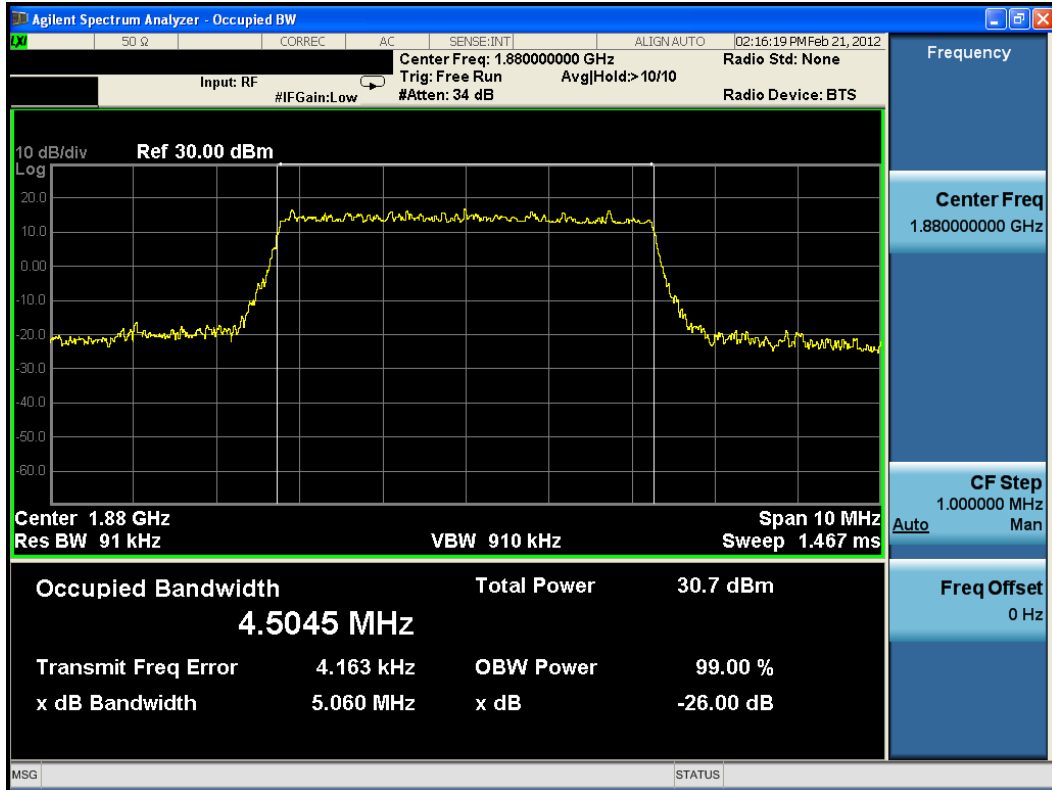


Plot 10-2. Lower Band Edge Plot (5MHz QPSK – RB Size 25, Offset 0)

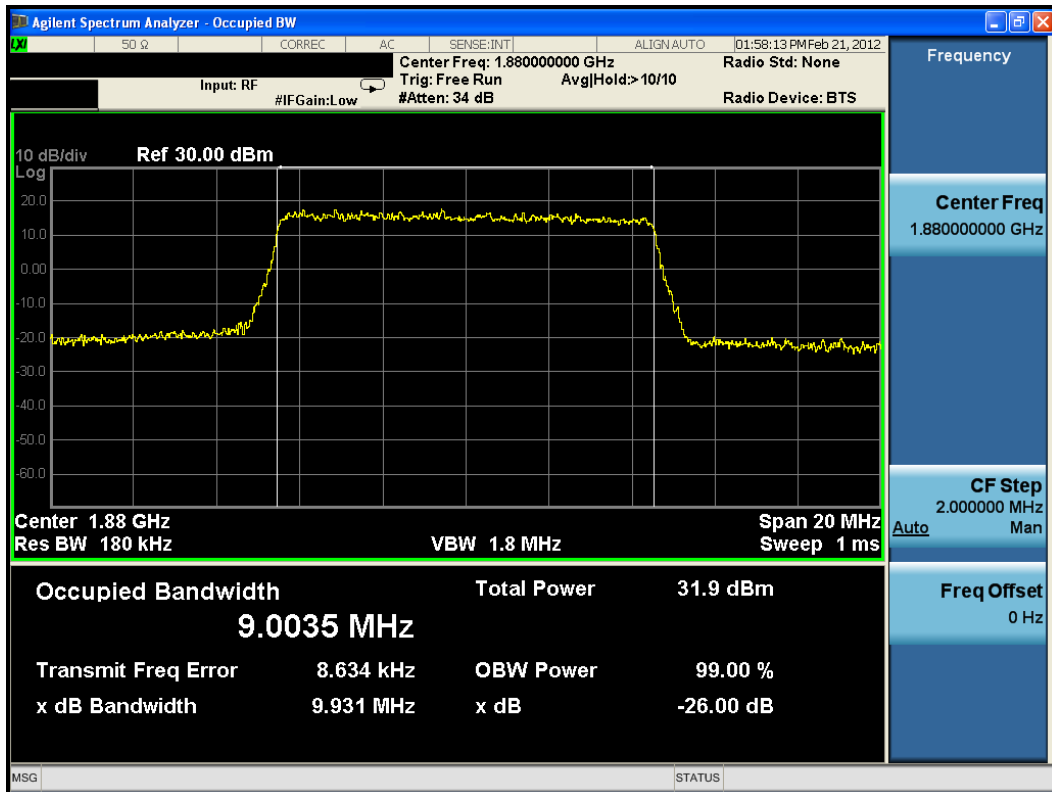


Plot 10-3. Lower Band Edge Plot (10MHz QPSK – RB Size 1, Offset 0)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 92 of 110 |

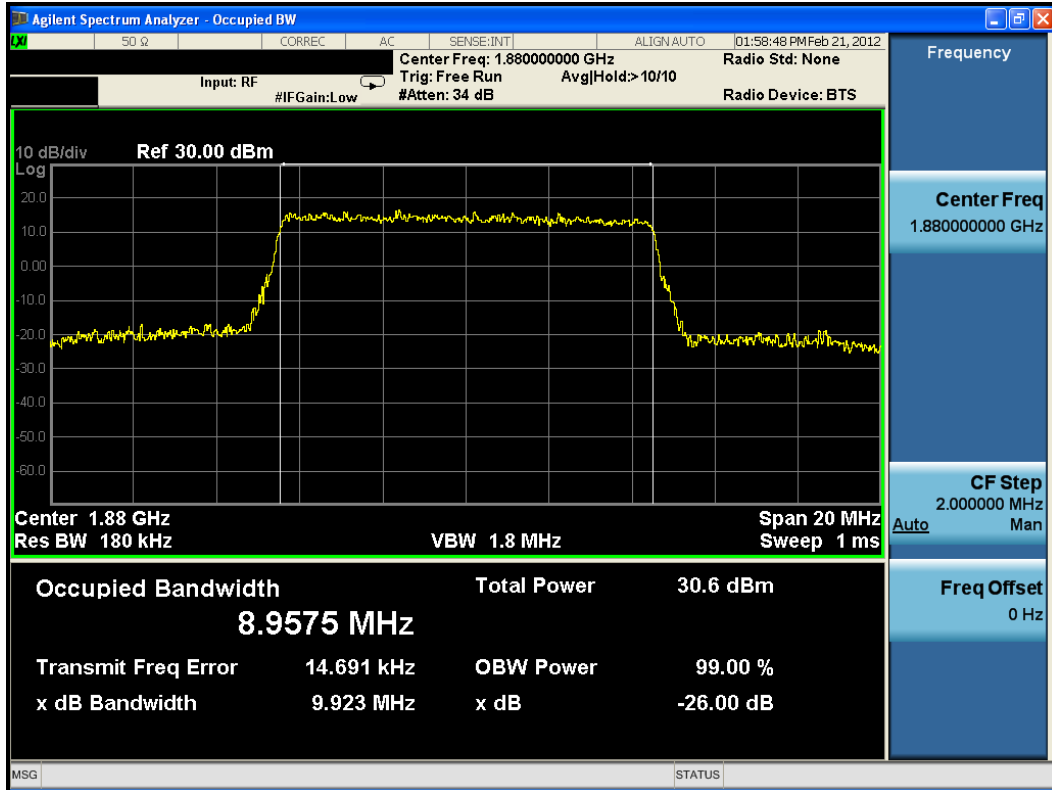


Plot 10-6. Occupied Bandwidth Plot (5MHz 16-QAM – RB Size 25)

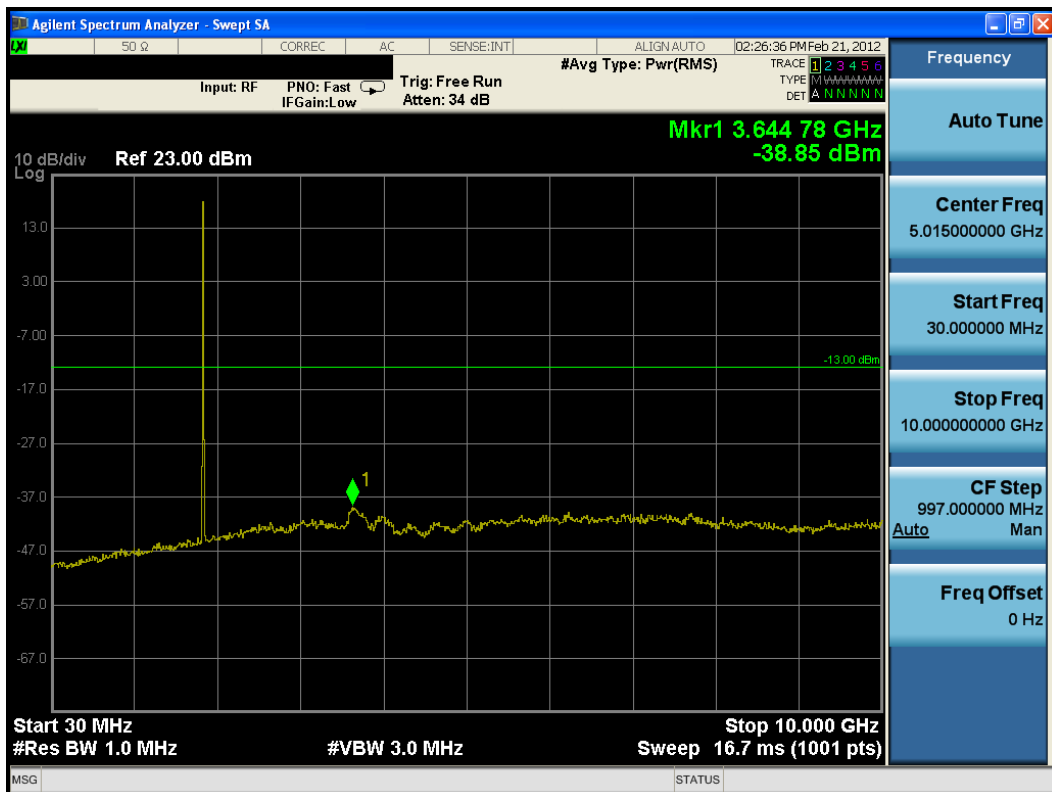


Plot 10-7. Occupied Bandwidth Plot (10MHz QPSK – RB Size 50)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 94 of 110 |



Plot 10-8. Occupied Bandwidth Plot (10MHz 16-QAM – RB Size 50)

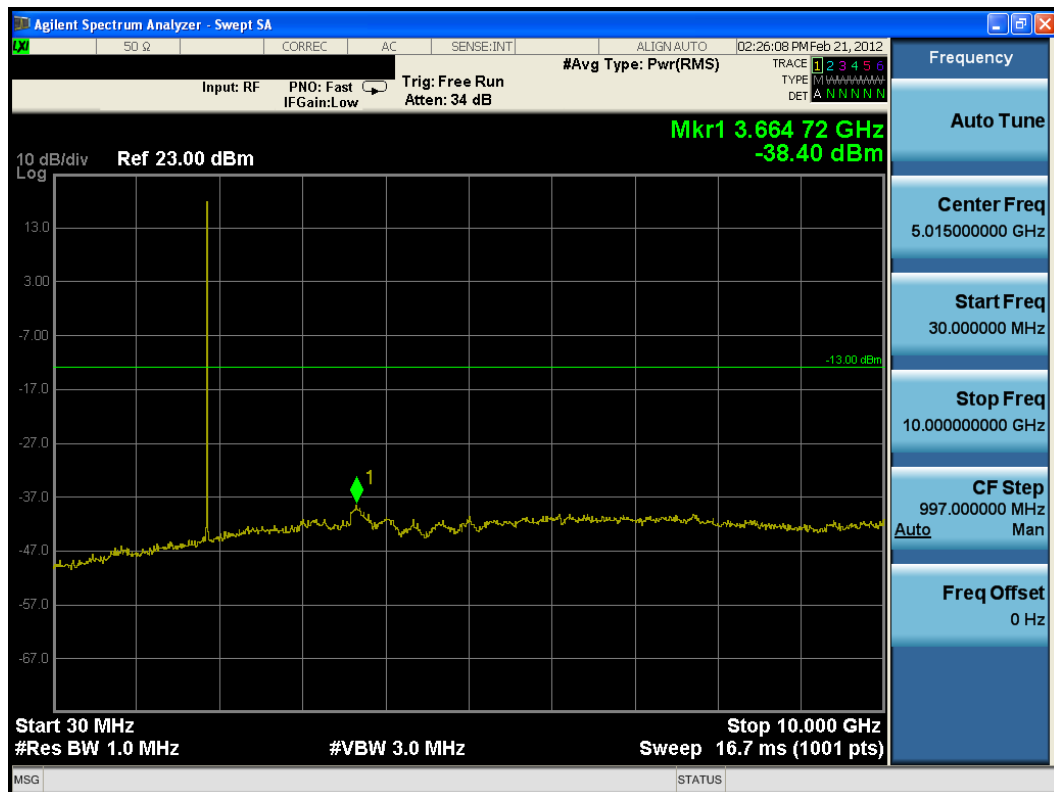


Plot 10-9. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

| | | | | |
|-----------------------------------|----------------------------------|---|--|------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 95 of 110 |

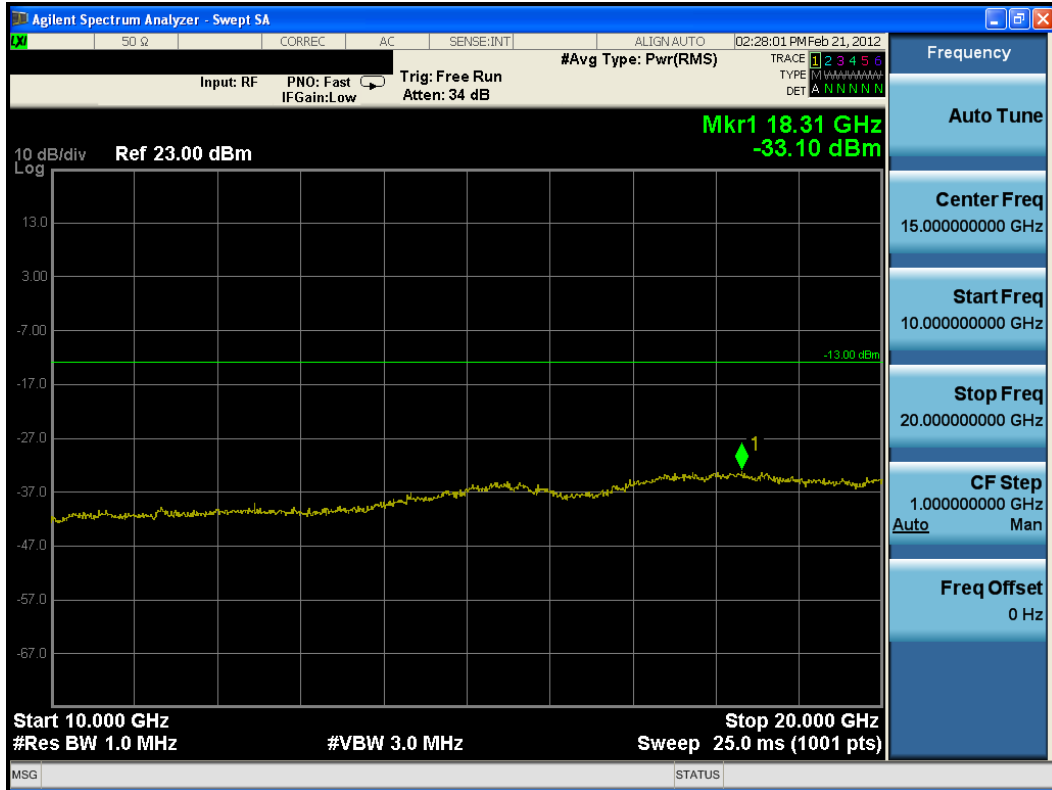


Plot 10-10. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

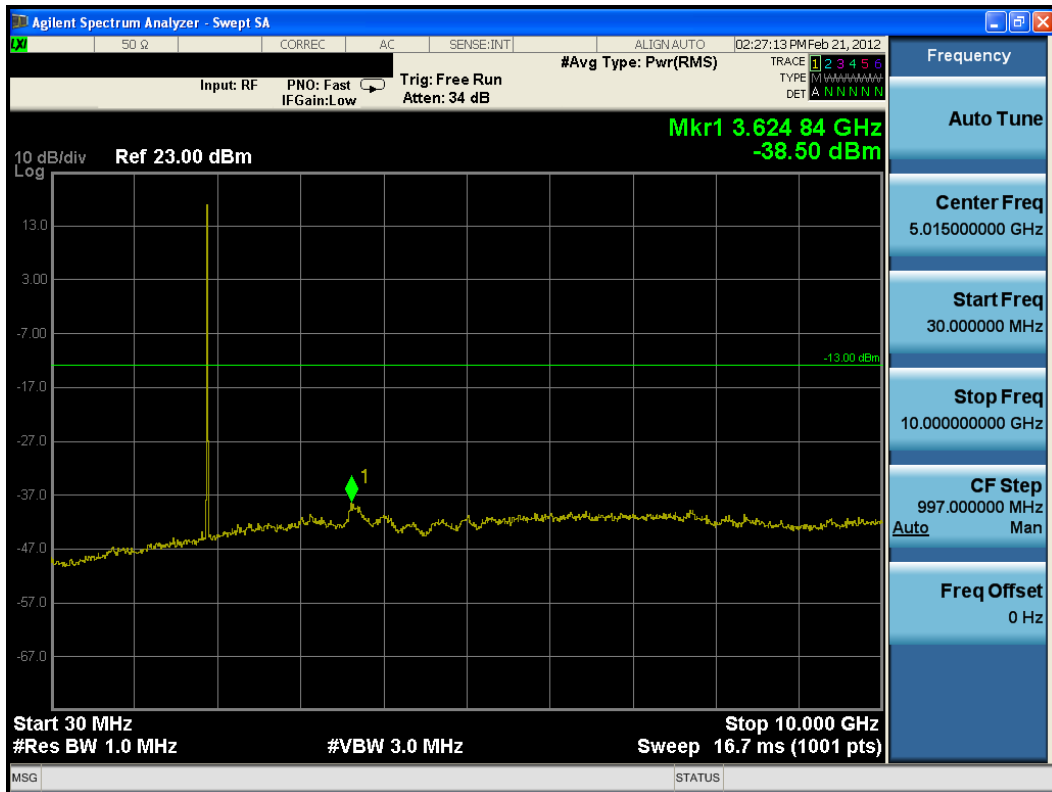


Plot 10-11. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 96 of 110 |

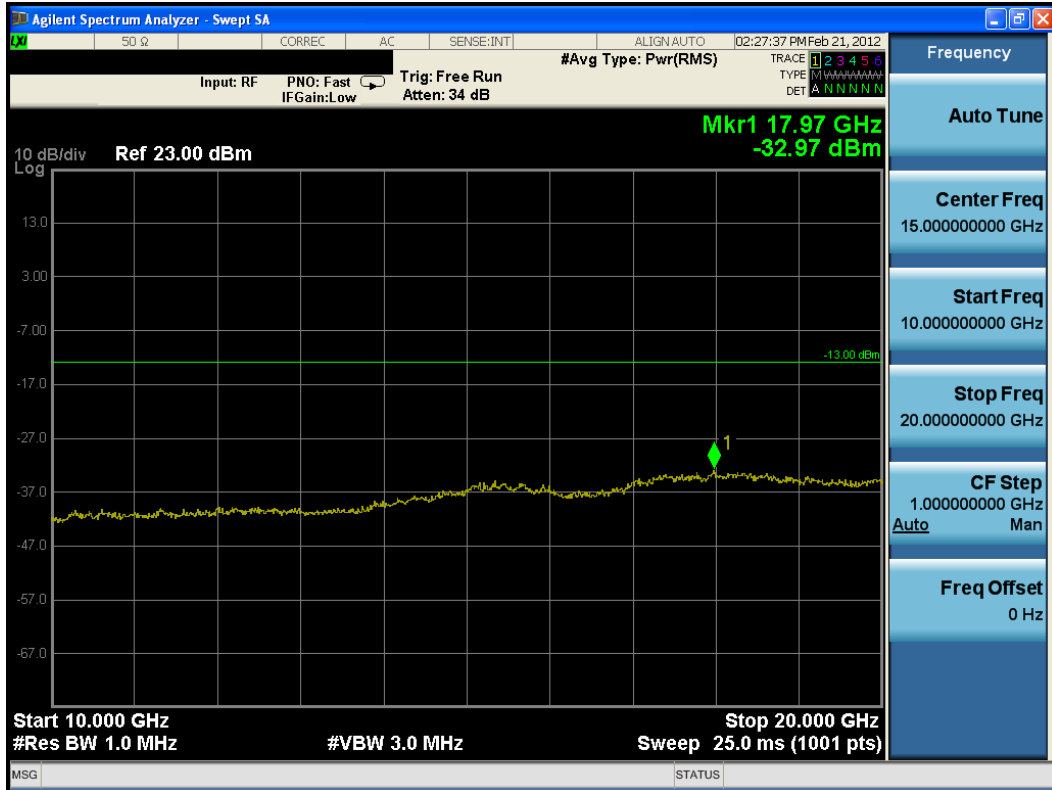


Plot 10-12. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

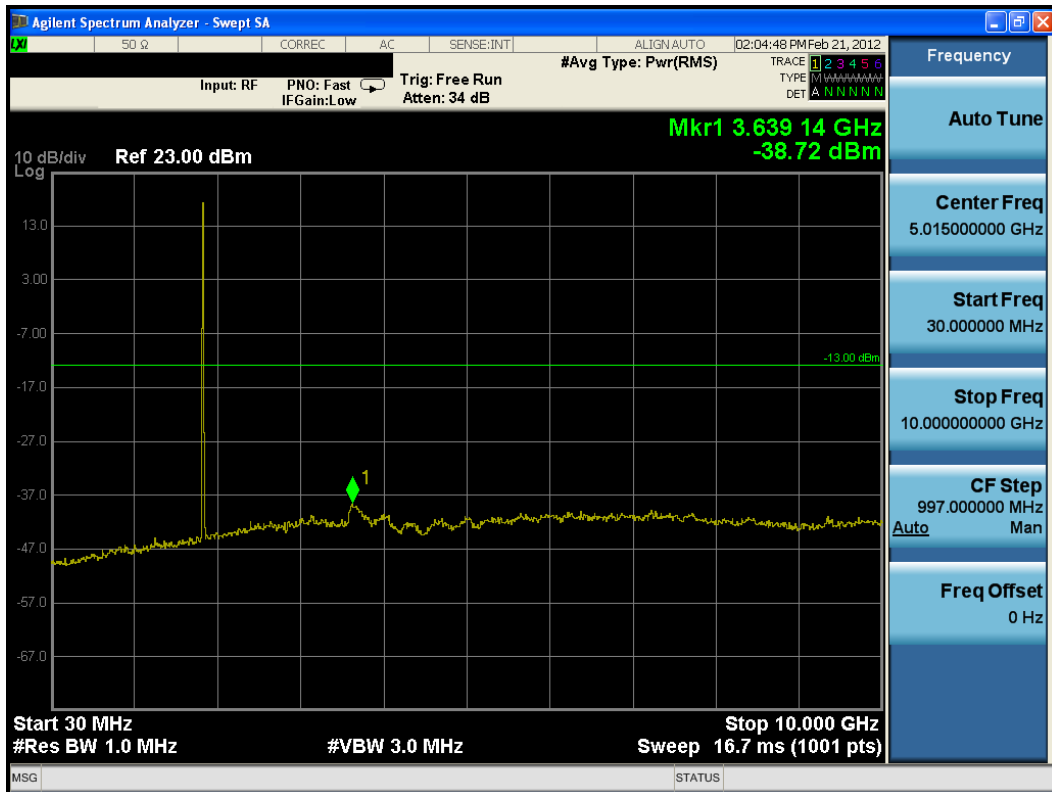


Plot 10-13. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 97 of 110 |

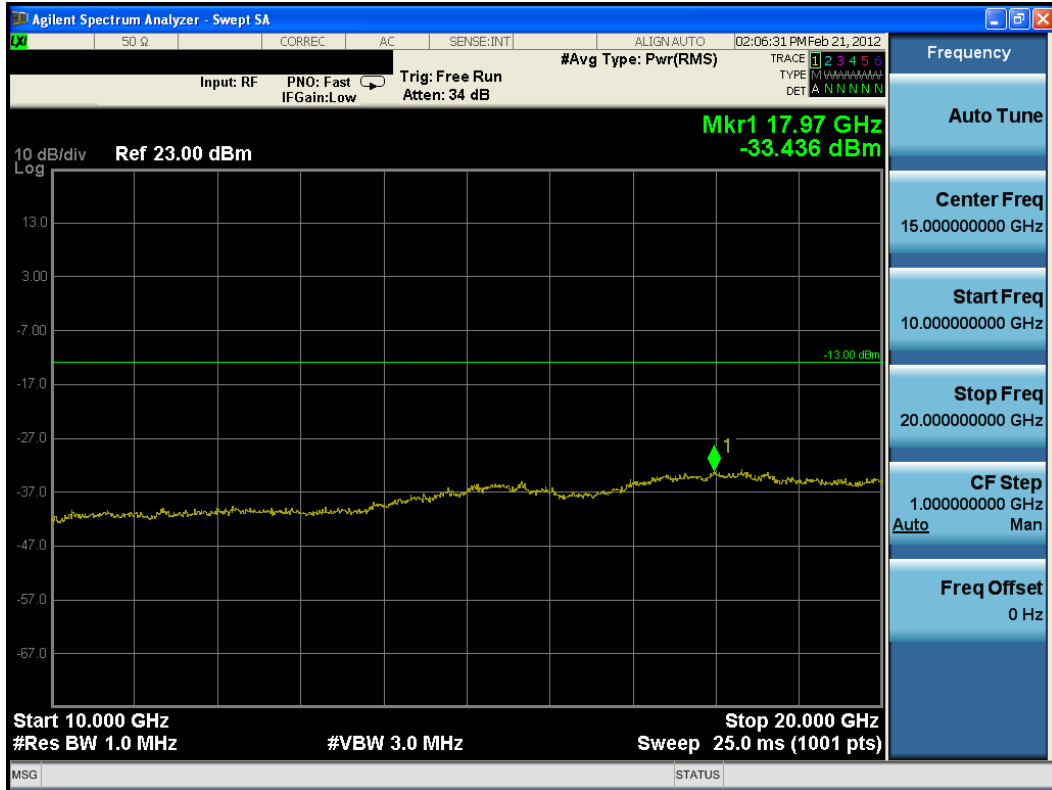


Plot 10-14. Conducted Spurious Plot (5MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

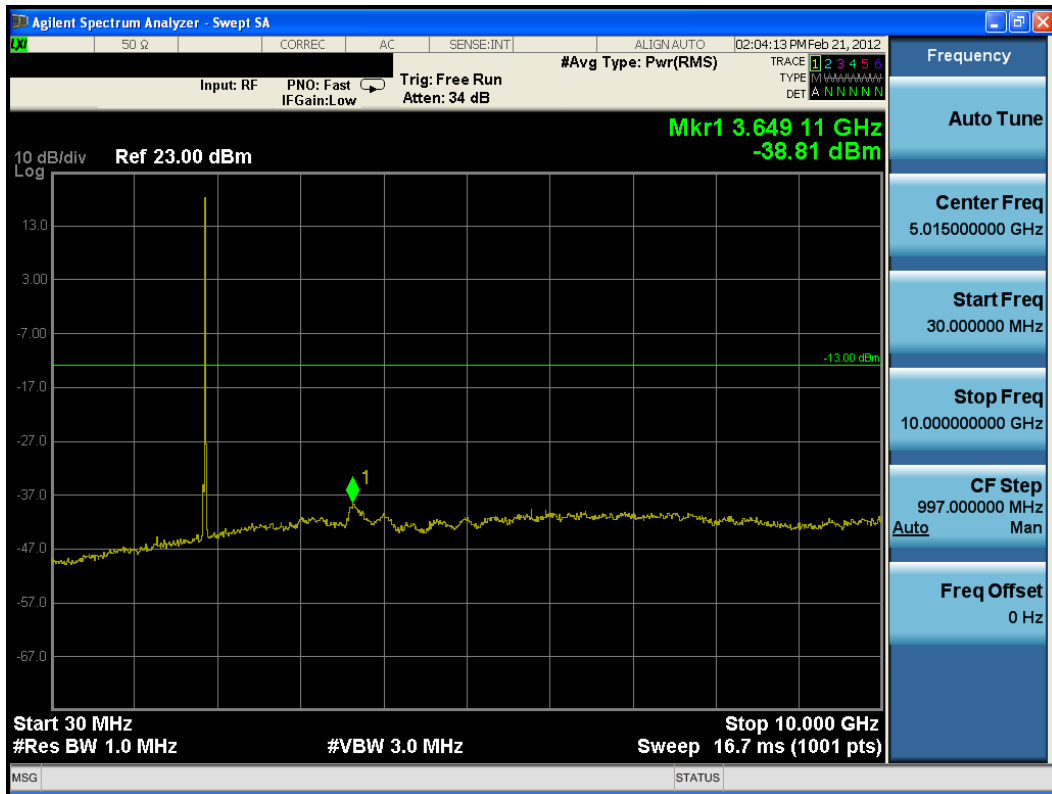


Plot 10-15. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 98 of 110 |

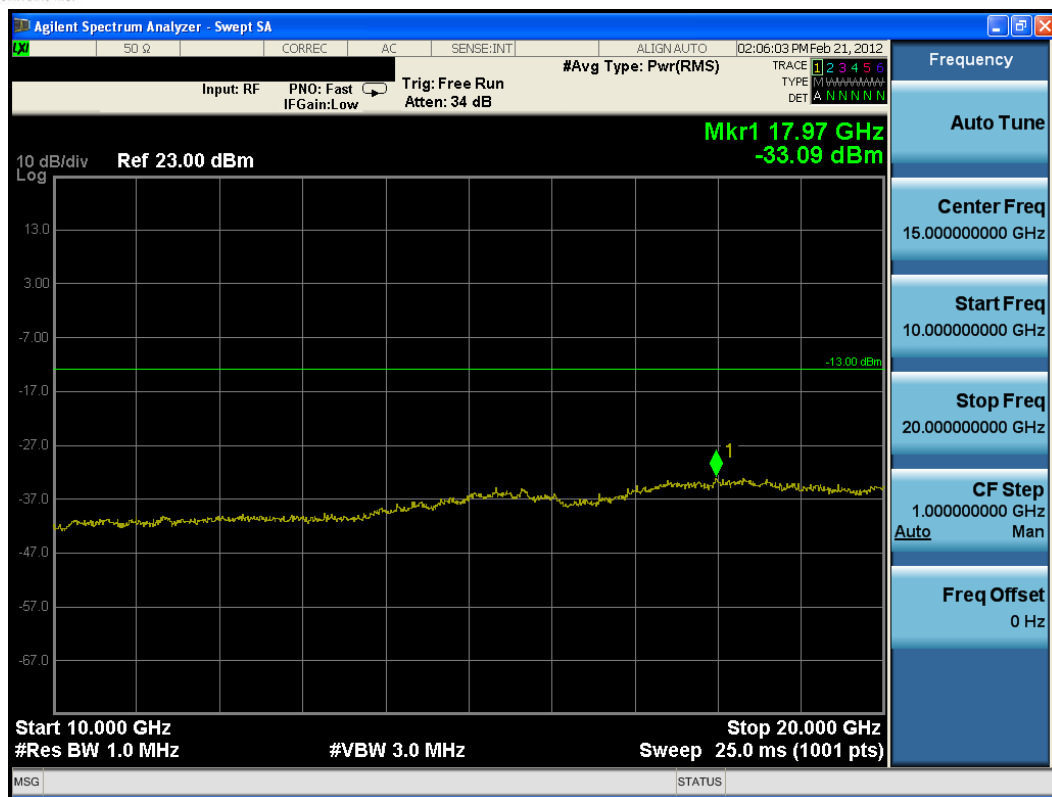


Plot 10-16. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

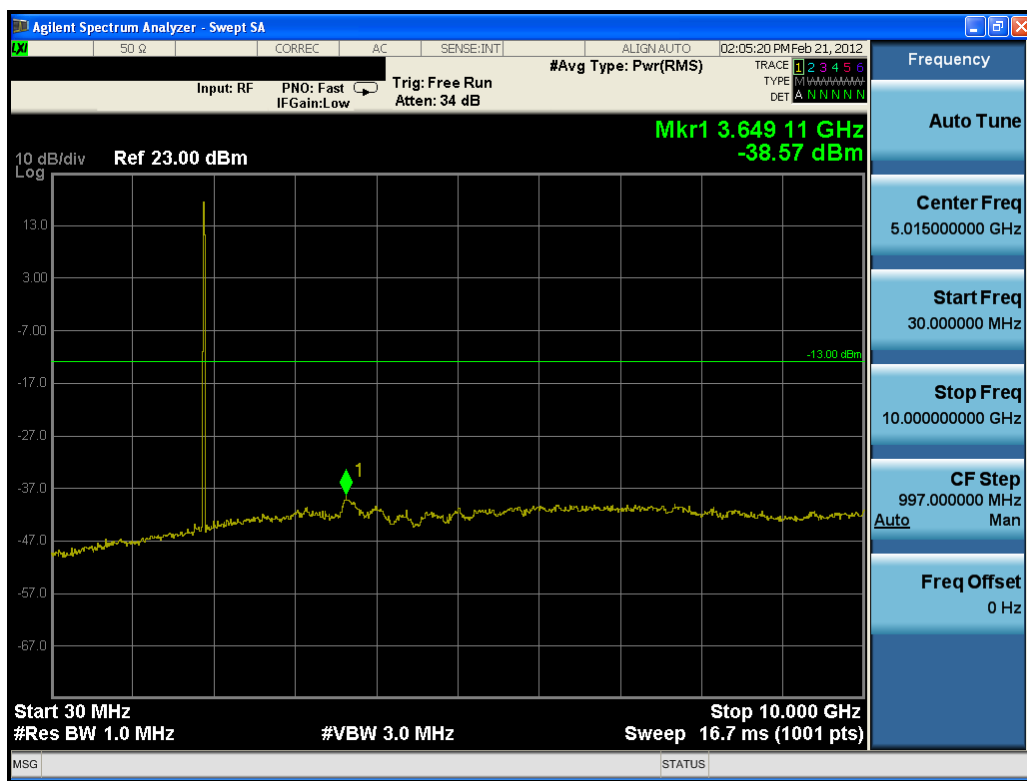


Plot 10-17. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 99 of 110 |



Plot 10-18. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

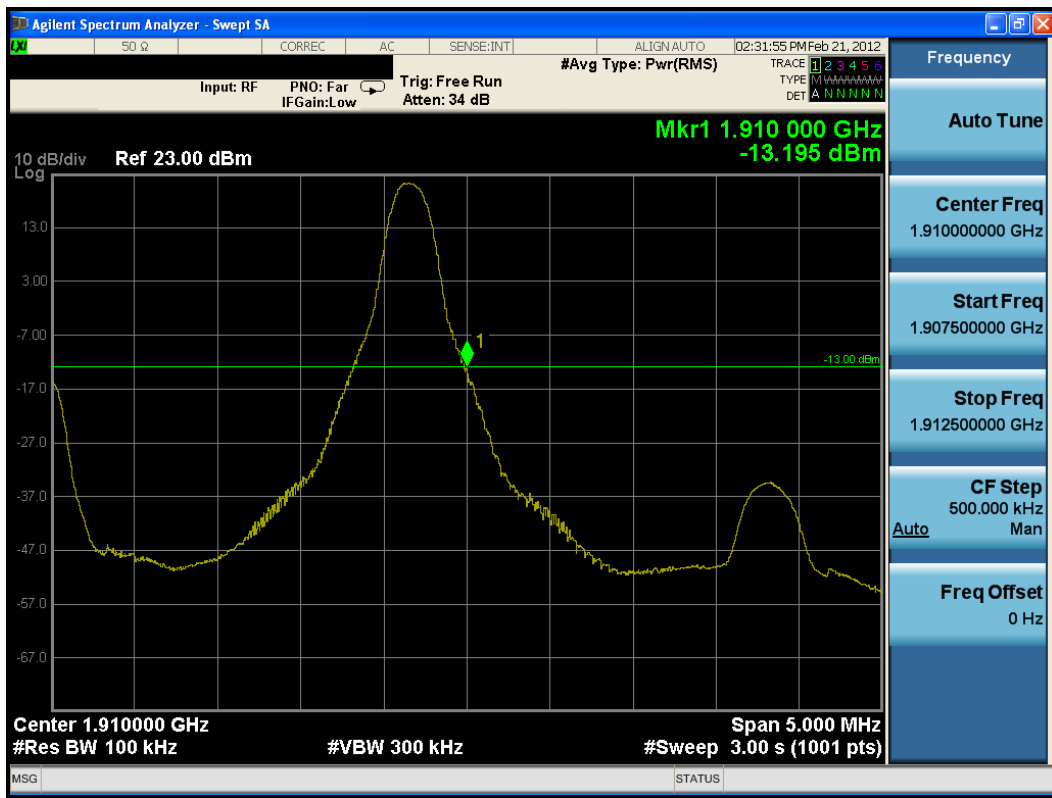


Plot 10-19. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 100 of 110 |



Plot 10-20. Conducted Spurious Plot (10MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

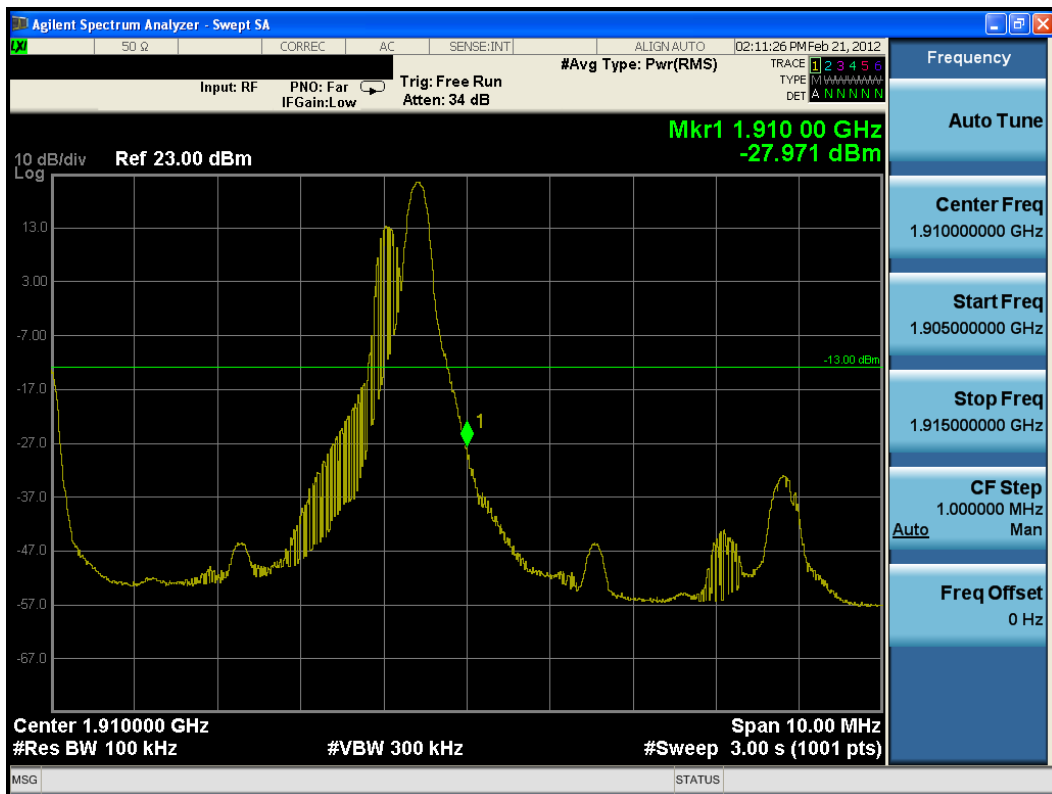


Plot 10-21. Upper Band Edge Plot (5MHz QPSK – RB Size 1, Offset 24)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 101 of 110 |

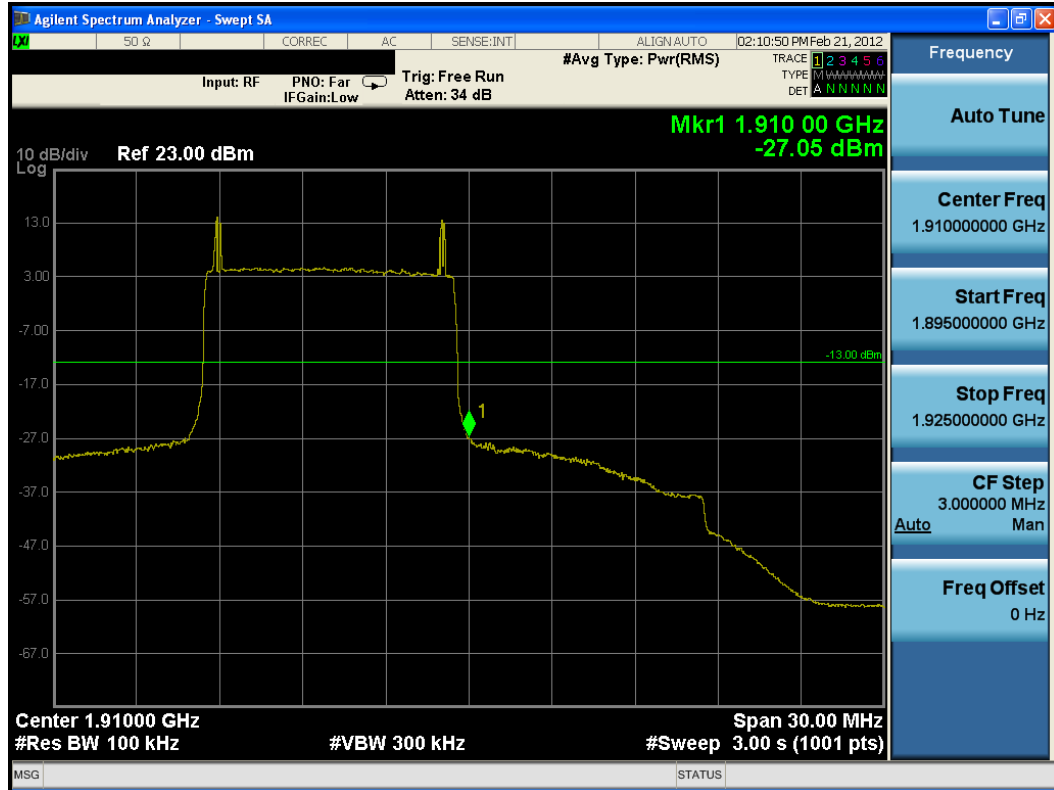


Plot 10-22. Upper Band Edge Plot (5MHz QPSK – RB Size 25, Offset 0)

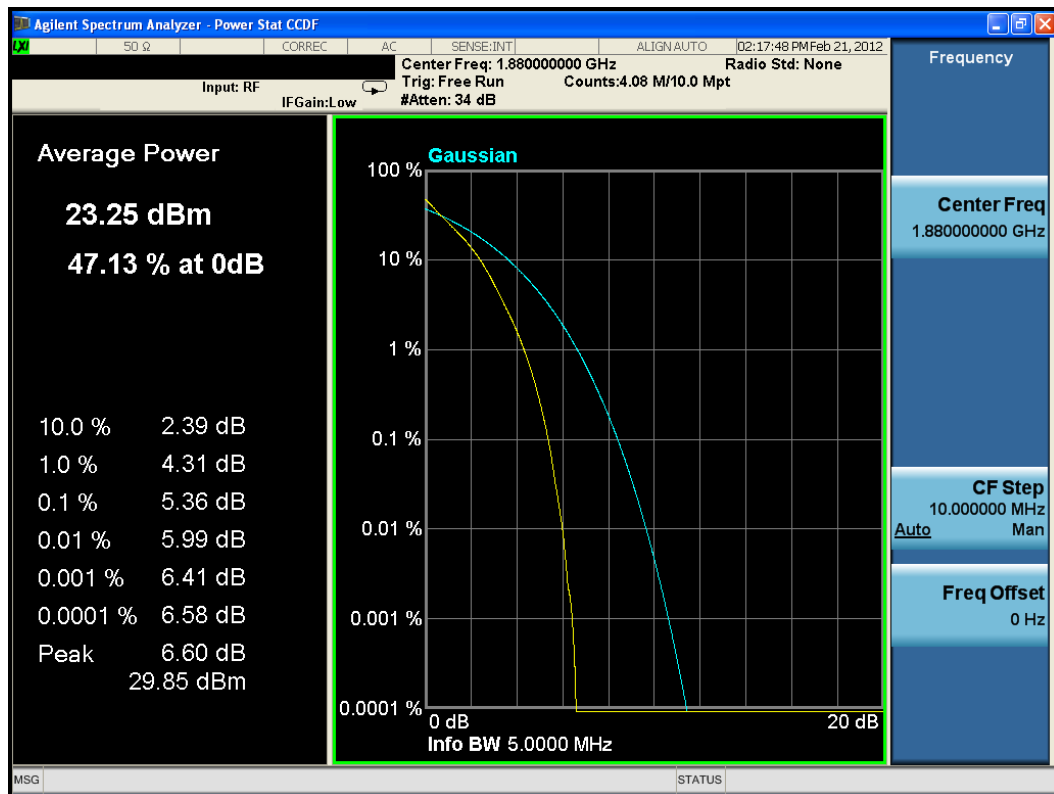


Plot 10-23. Upper Band Edge Plot (10MHz QPSK – RB Size 1, Offset 49)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 102 of 110 |

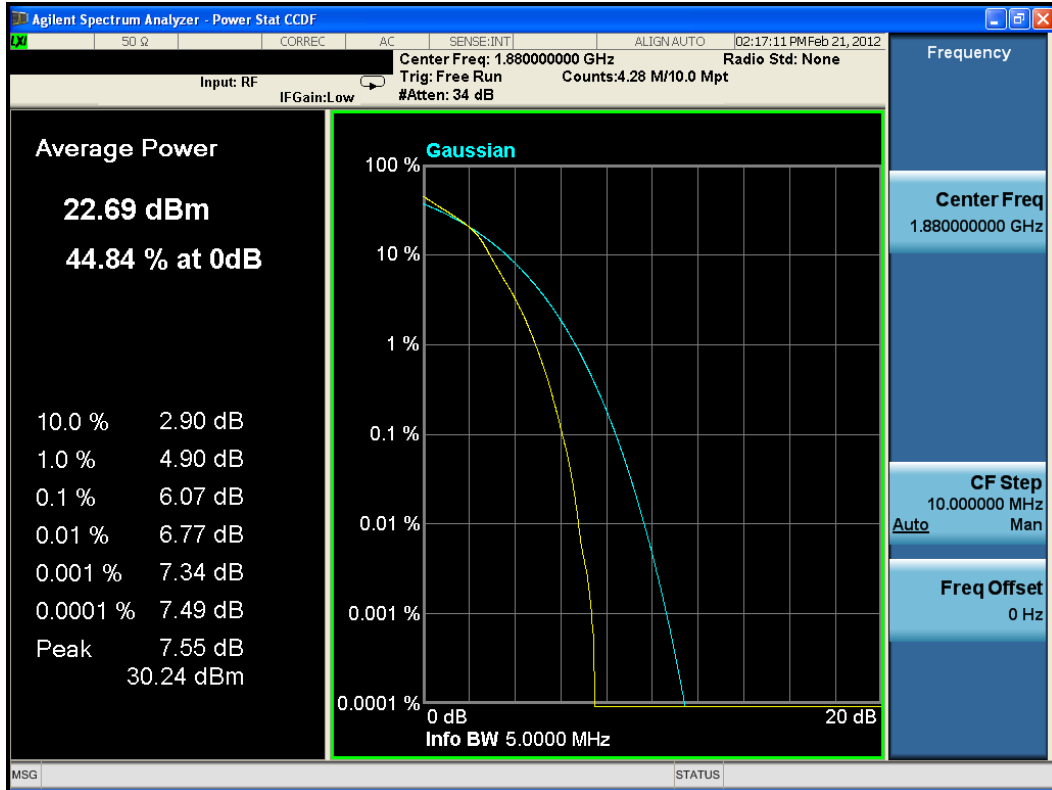


Plot 10-24. Upper Band Edge Plot (10MHz QPSK – RB Size 50, Offset 0)

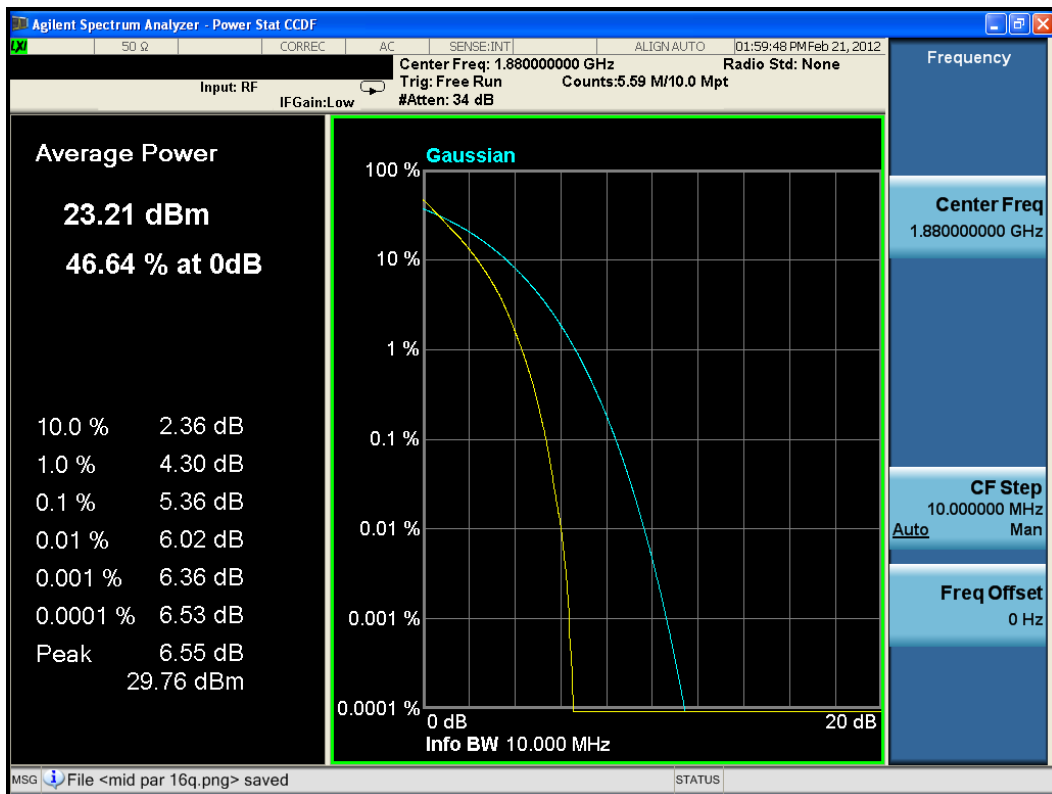


Plot 10-25. PAR Plot (5MHz QPSK – RB Size 25)

| | | | | |
|--------------------------------------|-------------------------------------|--|--|---------------------------------|
| FCC ID: JYCP8010 | | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 103 of 110 |

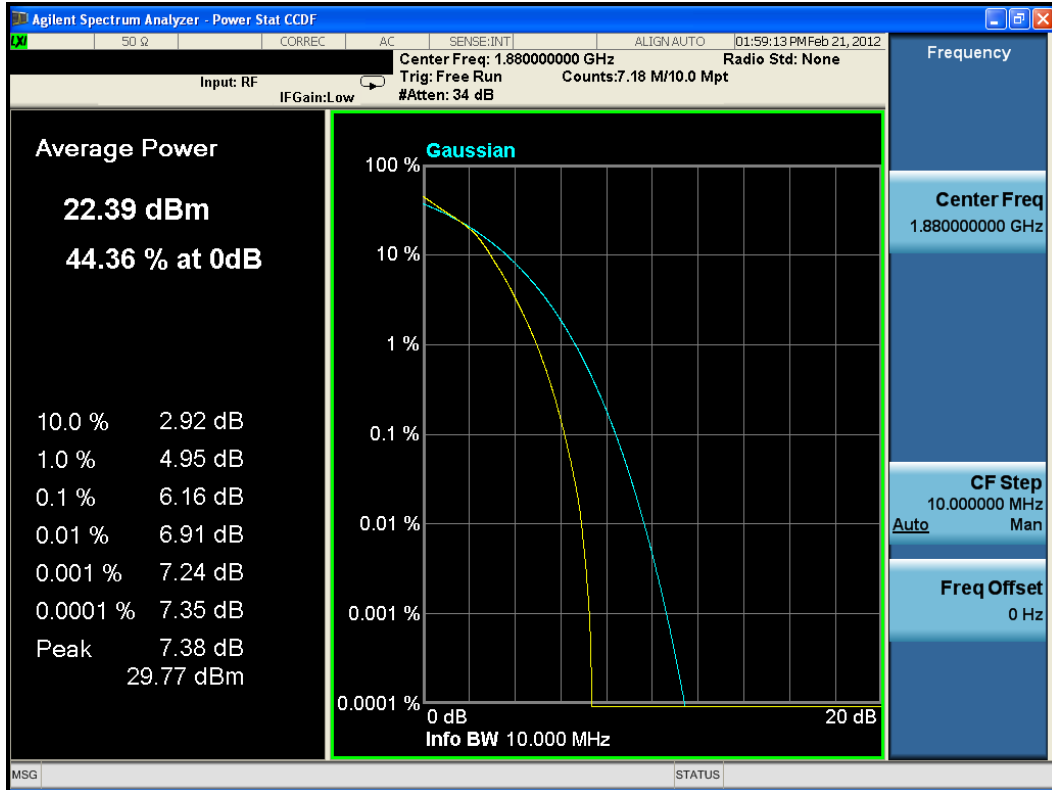


Plot 10-26. PAR Plot (5MHz 16QAM – RB Size 25)



Plot 10-27. PAR Plot (10MHz QPSK – RB Size 50)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 104 of 110 |

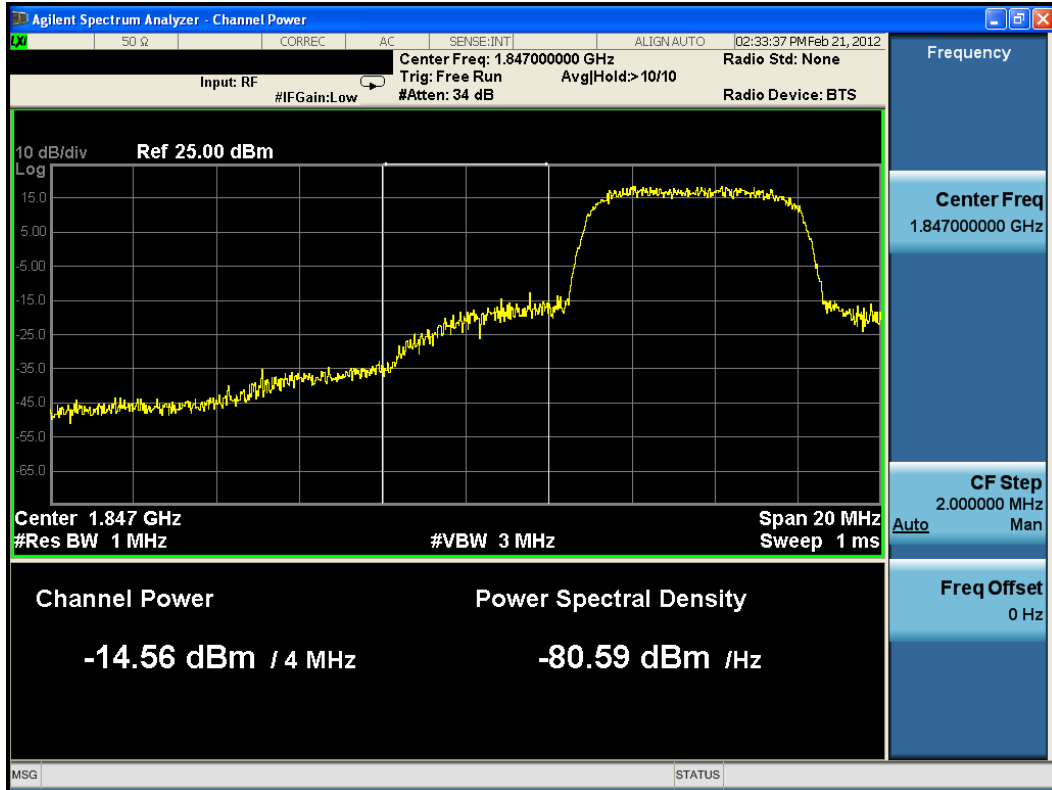


Plot 10-28. PAR Plot (10MHz 16QAM – RB Size 50)

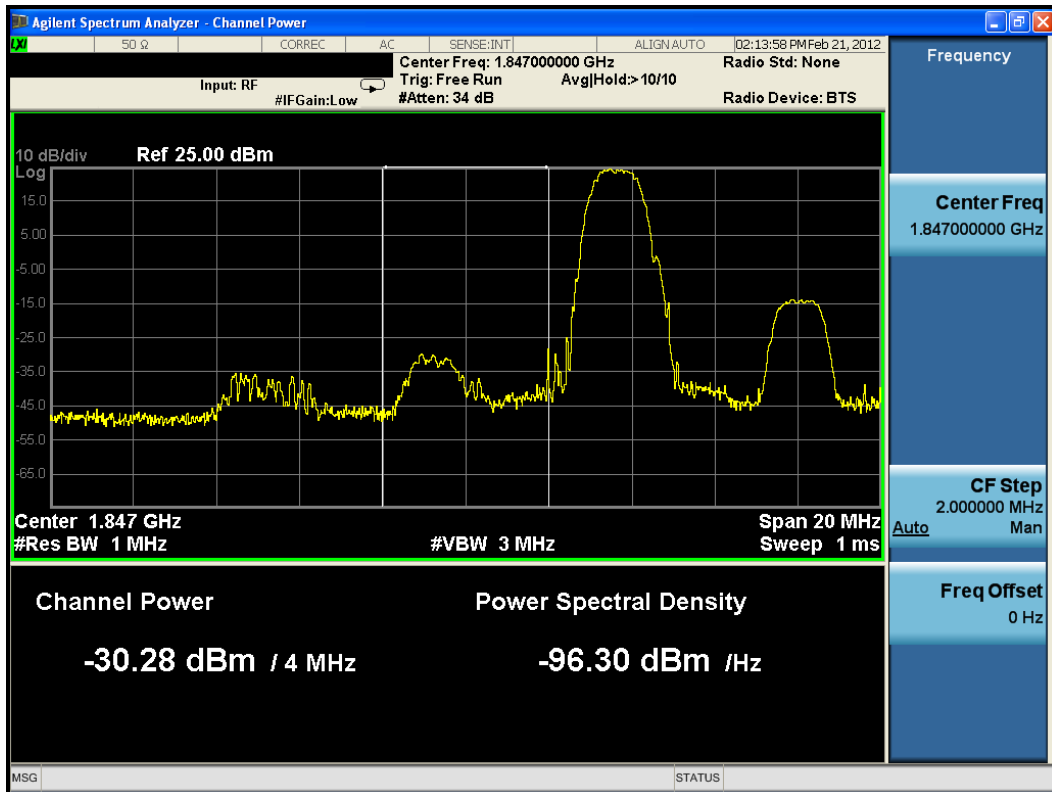


Plot 10-29. Lower Extended Band Edge Plot (5MHz QPSK– RB Size 1,Offset 0)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 105 of 110 |

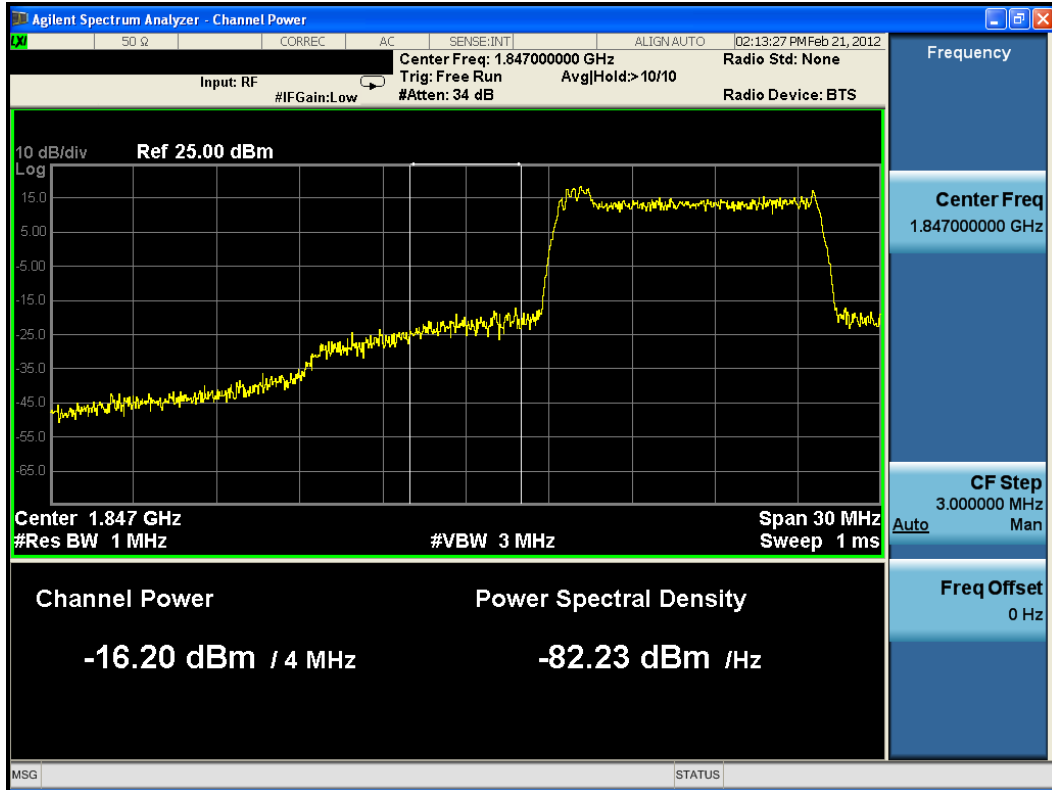


Plot 10-30. Lower Extended Band Edge Plot (5MHz QPSK– RB Size 25,Offset 0)

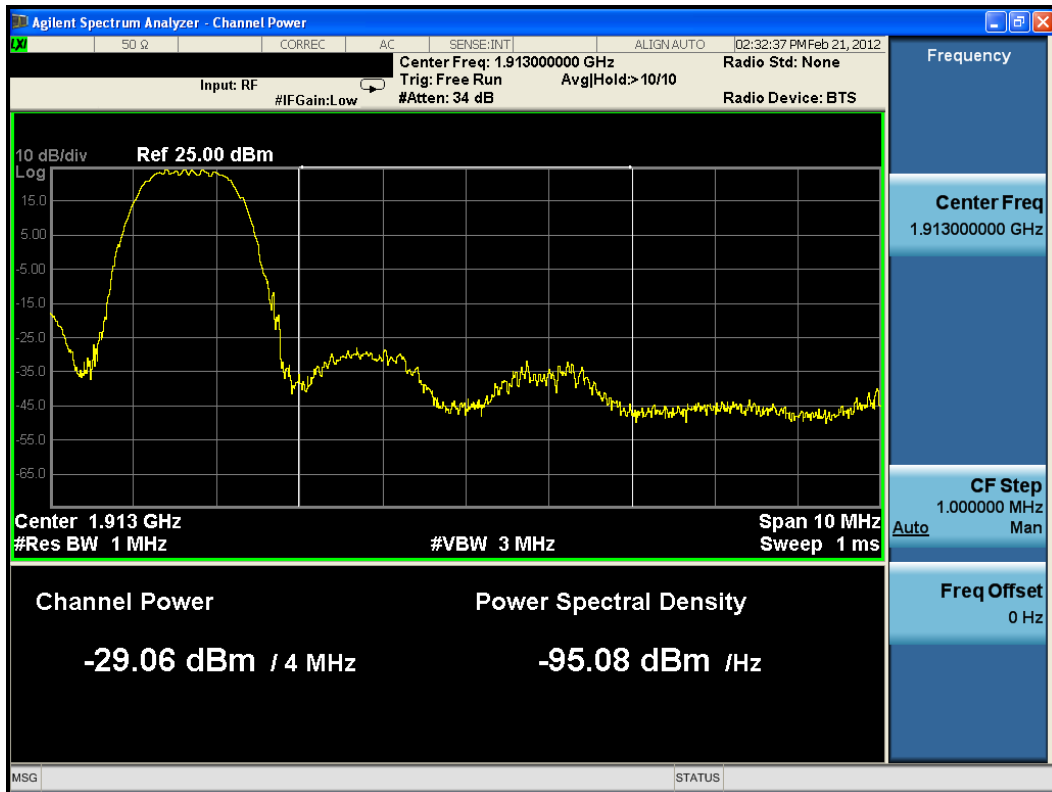


Plot 10-31. Lower Extended Band Edge Plot (10MHz QPSK– RB Size 1,Offset 0)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 106 of 110 |



Plot 10-32. Lower Extended Band Edge Plot (10MHz QPSK– RB Size 50,Offset 0)

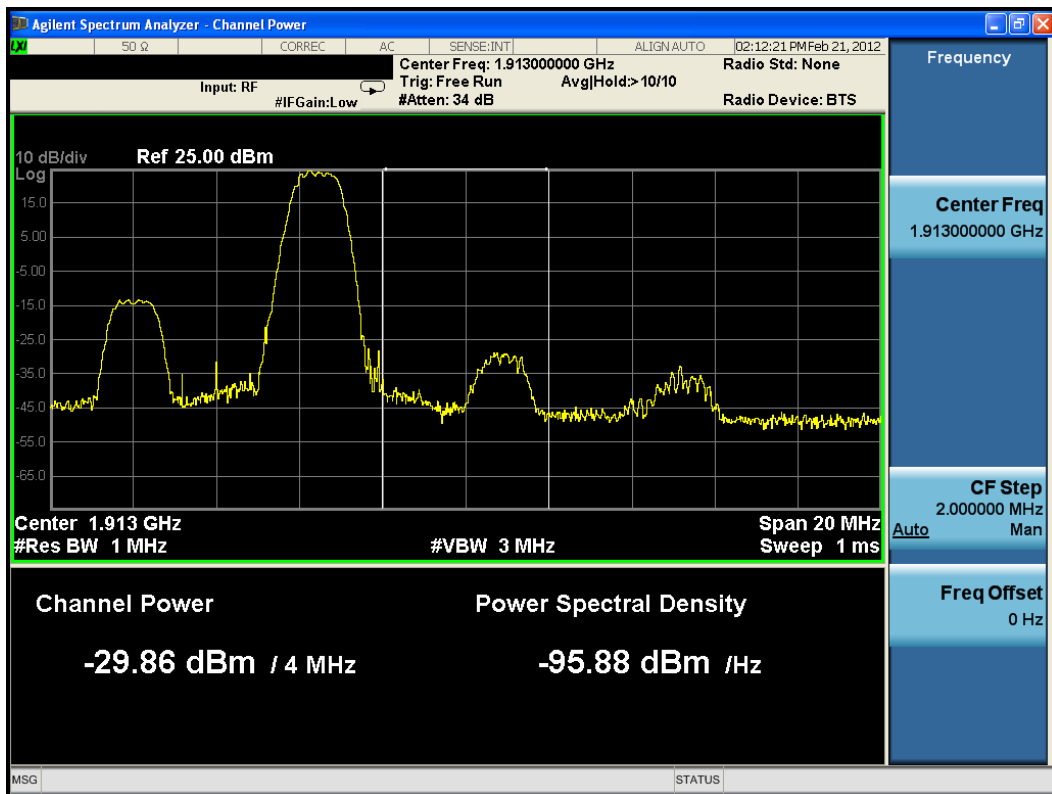


Plot 10-33. Upper Extended Band Edge Plot (5MHz QPSK– RB Size 1, Offset 24)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
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Plot 10-34. Upper Extended Band Edge Plot (5MHz QPSK– RB Size 25, Offset 0)





Plot 10-35. Upper Extended Band Edge Plot (10MHz QPSK– RB Size 1, Offset 49)

| | | | | |
|--------------------------------------|---|--|----------------|---------------------------------|
| FCC ID: JYCP8010 | PCTEST ENGINEERING LABORATORY, INC. | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) | PANTECH | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | | Page 108 of 110 |





Plot 10-36. Upper Extended Band Edge Plot (10MHz QPSK– RB Size 50, Offset 0)

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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11.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Pantech Portable Handset FCC ID: JYCP8010** complies with all the requirements of Parts 2, 22, 24 and 27 of the FCC rules for LTE operation only.

| | | | | |
|--------------------------------------|---|--|---|---------------------------------|
| FCC ID: JYCP8010 |  | FCC Pt. 22-24-27 LTE MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1202100187.JCY | Test Dates: February 20-29, 2012 | EUT Type: Portable Handset | Page 110 of 110 | |