

PCTEST ENGINEERING LABORATORY, INC.

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MEASUREMENT REPORT FCC Part 22, 24, 27 / IC RSS-132 RSS-133 RSS-139

Applicant Name:

Sony Mobile Communications Nya Vattentornet SE-221 88 Lund Sweden

Date of Testing: 6/12 – 7/16/2013 Test Site/Location: PCTEST Lab., Columbia, MD, USA Test Report Serial No.: 0Y1307231386.PY7

FCC ID:

PY7PM-0620

APPLICANT:

SONY MOBILE COMMUNICATIONS

Application Type: Type Number: EUT Type: FCC Classification: FCC Rule Part(s): IC Specification(s): Test Procedure(s): Test Device Serial No.:

Certification PM-0620-BV Portable Handset PCS Licensed Transmitter Held to Ear (PCE) §2 §22(H) §24(E) §27(L) RSS-132 Issue 3 RSS-133 Issue 6 RSS-139 Issue 2 ANSI/TIA-603-C-2004, KDB 971168 *identical prototype* [S/N:9236]

| | | | ERP/ | EIRP |
|-----------|-----------------------|------------------------|----------------------|------------------------|
| Mode | Tx Frequency (MHz) | Emission Designator | Max. Power (W) | Max. Power (dBm) |
| GSM850 | 824.2 - 848.8 | 244KGXW | 1.776 | 32.49 |
| EDGE850 | 824.2 - 848.8 | 245KG7W | 0.559 | 27.47 |
| GSM1900 | 1850.2 - 1909.8 | 241KGXW | 1.675 | 32.24 |
| EDGE1900 | 1850.2 - 1909.8 | 241KG7W | 0.513 | 27.10 |
| WCDMA850 | 826.4 - 846.6 | 4M14F9W | 0.128 | 21.07 |
| WCDMA1700 | 1712.4 - 1752.5 | 4M13F9W | 0.372 | 25.71 |
| WCDMA1900 | 1852.4 - 1907.6 | 4M13F9W | 0.271 | 24.32 |

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.

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.

Randy Ortanez President



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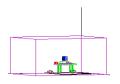
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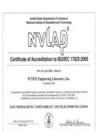
| APPLICANT: | Sony Mobile Commun | ications | | |
|-------------------------|-----------------------|-------------------|----------------|-------------|
| APPLICANT ADDRESS: | Nya Vattentornet | | | |
| | SE-221 88 Lund, Swee | den | | |
| TEST SITE: | PCTEST ENGINEERII | NG LABORATO | RY, INC. | |
| TEST SITE ADDRESS: | 7185 Oakland Mills Ro | oad, Columbia, N | ID 21046 USA | |
| FCC RULE PART(S): | §2 §22(H) §24(E) §27(| (L) | | |
| TYPE NUMBER: | PM-0620 | | | |
| FCC ID: | PY7PM-0620 | | | |
| FCC CLASSIFICATION: | PCS Licensed Transm | itter Held to Ear | (PCE) | |
| MODE: | GSM / EDGE / WCDM | IA | | |
| FREQUENCY TOLERANCE: | ±0.00025 % (2.5 ppm) | | | |
| Test Device Serial No.: | 9236 | Production | Pre-Production | Engineering |
| DATE(S) OF TEST: | 6/12 – 7/16/2013 | | | |
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Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) 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 (2451B-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
 - 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 (2451B-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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INTRODUCTION 1.0

Scope 1.1

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 Internt'I (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 located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on February 15, 2012.

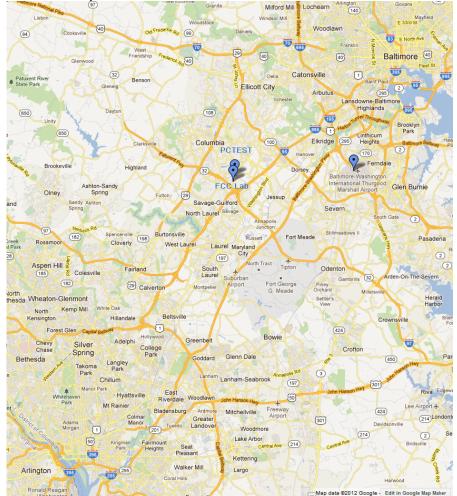


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Sony Portable Handset FCC ID: PY7PM-0620**. The test data contained in this report pertains only to the emissions due to the EUT's 2G/3G licensed transmitters.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Band 2, 4, 5, 7 LTE, 802.11a/b/g/n/ac WLAN (DTS/NII), Bluetooth (1x, EDR, LE), ANT+, NFC

2.3 Test Configuration

The Sony Portable Handset FCC ID: PY7PM-0620 was tested per the guidance of ANSI/TIA-603-C-2004 and KDB 971168. See Section 3.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

2.4 EMI Suppression Device(s)/Modifications

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

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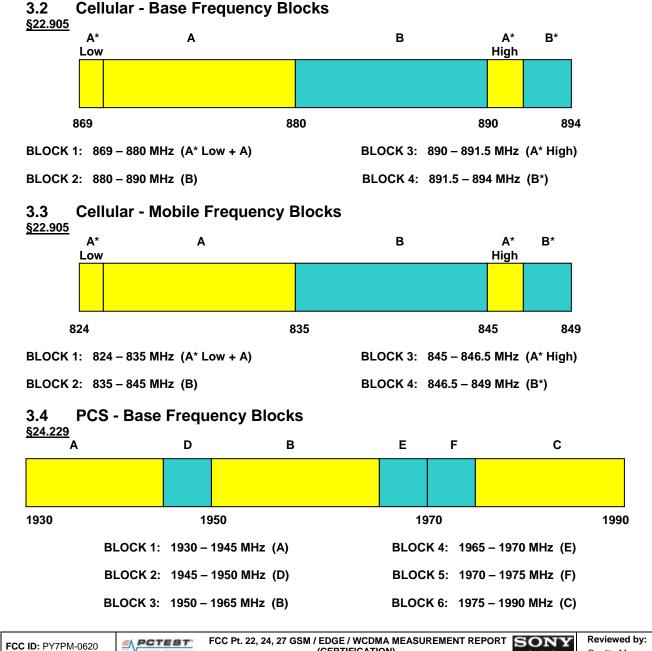


3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-C-2004) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168) were used in the measurement of the **Sony Portable Handset FCC ID: PY7PM-0620.**

Deviation from Measurement Procedure.....None



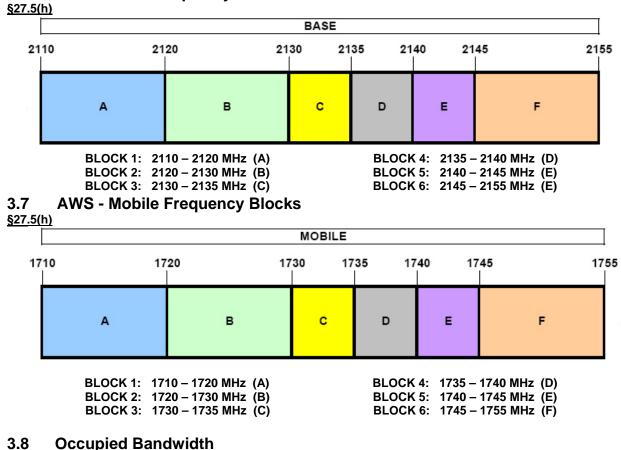
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3.5 PCS - Mobile Frequency Blocks

| <u>§24.22</u> | <u>9</u> A | D | В | Е | F | С | |
|---------------|---------------|--------|--------------|------|----------|--------------------|------|
| | | | | | | | |
| 4050 | | | | 100 | | | 1010 |
| 1850 | | | 370 | 189 | | | 1910 |
| | BLOCK 1: | 1850 – | 1865 MHz (A) | BLOC | K 4: 18 | 85 – 1890 MHz (E) | |
| | BLOCK 2: | 1865 – | 1870 MHz (D) | BLOC | K 5: 18 | 90 – 1895 MHz (F) | |
| | BLOCK 3: | 1870 – | 1885 MHz (B) | BLOC | K 6: 189 | 95 – 1910 MHz (C) | |

3.6 AWS - Base Frequency Blocks



§2.1049 RSS-Gen(4.6.1) RSS-133(2.3) RSS-139(2.3)

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 spectrum analyzers' "occupied bandwidth" measurement function was used to record the occupied bandwidth in accordance with KDB 971168.

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Spurious and Harmonic Emissions at Antenna Terminal 3.9 §2.1051 §22.917(a) §24.238(a) §27.53(h) RSS-132(4.5.1) RSS-133(6.5.1) RSS-139(6.5.1)

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 100 kHz or greater for Part 22 and 1 MHz or greater for Part 24, Part 27. 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.

3.10 Radiated Power and Radiated Spurious Emissions

§2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a) §27.50(d.10) §27.53(h) RSS-132(4.4) RSS-132(4.5.1) RSS-133(6.4) RSS-133(6.5.1) RSS-139(6.5.2)

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A 3/4" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.

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 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. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168.

Per the guidance of ANSI/TIA-603-C-2004, 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:

 $P_{d [dBm]} = P_{g [dBm]} - cable loss [dB] + antenna gain [dBd/dBi]$

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 Pg [dBm] - cable loss [dB].

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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 + 10log₁₀(Power [Watts]) specified in 22.917(a) and 24.238(a).

3.11 Peak-Average Ratio §24.232(d) §27.50(d.5) RSS-132(5.4) RSS-133(6.4) RSS-139(6.4)

A peak to average ratio measurement is performed at the conducted port of the EUT. 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.

For pulsed signals, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power. For continuous signals, the trigger is set to "free run" in the CCDF measurement mode.

3.12 Frequency Stability / Temperature Variation §2.1055 §22.355 §22.863 §22.905 §24.229 §24.235 §27.5(h) §27.54 RSS-132(4.3) RSS-133(6.3) RSS-139(6.3)

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-C-2004. 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 – For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 fifteen minutes 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 period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

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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 | 1/17/2013 | Annual | 1/17/2014 | N/A |
| - | RE1 | Radiated Emissions Cable Set (UHF/EHF) | 3/29/2013 | Annual | 3/29/2014 | N/A |
| Agilent | 8447D | Broadband Amplifier | 5/31/2013 | Annual | 5/31/2014 | 2443A01900 |
| Agilent | N5183A | MXG Analog Signal Generator | 1/6/2013 | Annual | 1/6/2014 | MY50141900 |
| Agilent | N9030A | PXA Signal Analyzer (44GHz) | 1/11/2013 | Annual | 1/11/2014 | MY52350166 |
| Agilent | 87405C | Pre-amplifier (0.1 - 18 GHz) | 3/11/2013 | Annual | 3/11/2014 | MY53010007 |
| Espec | ESX-2CA | Environmental Chamber | 4/16/2013 | Annual | 4/16/2014 | 17620 |
| ETS Lindgren | 3117 | 1-18 GHz DRG Horn (Medium) | 7/22/2011 | Biennial | 7/22/2013 | 125518 |
| ETS Lindgren | 3160-09 | 18-26.5 GHz Standard Gain Horn | 5/30/2012 | Biennial | 5/30/2014 | 135427 |
| ETS Lindgren | 3164-08 | Quad Ridge Horn Antenna | 11/7/2012 | Biennial | 11/7/2014 | 128338 |
| Mini-Circuits | VHF-1200+ | High Pass Filter | 1/17/2013 | Annual | 1/17/2014 | 30923 |
| Mini-Circuits | VHF-3100+ | High Pass Filter | 1/17/2013 | Annual | 1/17/2014 | 30841 |
| Mini-Circuits | PWR-SENS-4RMS | USB Power Sensor | 4/17/2013 | Annual | 4/17/2014 | 11210140001 |
| Rohde & Schwarz | CMU200 | Base Station Simulator | N/A | | NA | 836536/0005 |
| Rohde & Schwarz | TS-PR18 | 1-18 GHz Pre-Amplifier | 5/31/2013 | Annual | 5/31/2014 | 100071 |
| Rohde & Schwarz | TS-PR26 | 18-26.5 GHz Pre-Amplifier | 5/31/2013 | Annual | 5/31/2014 | 100040 |
| Rohde & Schwarz | ESU26 | EMI Test Receiver | 2/25/2013 | Annual | 2/25/2014 | 100342 |
| Schwarzbeck | UHA 9105 | Dipole Antenna (400 - 1GHz) Tx | 10/3/2011 | Biennial | 10/3/2013 | 91052522TX |
| Schwarzbeck | UHA 9105 | Dipole Antenna (400 - 1GHz) Rx | 10/3/2011 | Biennial | 10/3/2013 | 91052523RX |
| Seekonk | NC-100 | Torque Wrench (8" lb) | 3/5/2012 | Triennial | 3/5/2015 | N/A |
| Sunol | JB5 | Bi-Log Antenna (30M - 5GHz) | 1/26/2012 | Biennial | 1/26/2014 | A051107 |

Table 4-1. Test Equipment

Notes:

Equipment used for signaling with a calibration date of "N/A" shown in this list was only used for maintaining a link between the piece of equipment and the EUT. This equipment was not used to make direct calibrated measurements.

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5.0 SAMPLE CALCULATIONS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz G = Phase Modulation X = Cases not otherwise covered W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 250KG7W

EDGE BW = 250 kHz G = Phase Modulation 7 = Quantized/Digital Info W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 MHz F = Frequency Modulation 9 = Composite Digital Info W = Combination (Audio/Data) (Measured at the 99.75% power bandwidth)

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive 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 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

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

6.1 Summary

| Company Name: | Sony Mobile Communications |
|---------------------|--|
| FCC ID: | PY7PM-0620 |
| FCC Classification: | PCS Licensed Transmitter Held to Ear (PCE) |
| Mode(s): | <u>GSM / EDGE / WCDMA</u> |

| FCC Part Section(s) | RSS Section(s) | Test Description Test Limit | | Test Condition | Test Result | Reference |
|--|--|---|--|-------------------|----------------|--|
| TRANSMITTER | | | • | | | |
| 2.1049 | RSS-Gen(4.6.1) RSS-133(2.3) RSS-139(2.3) | Occupied Bandwidth | N/A | | PASS | Section 7.0 |
| 2.1051 22.917(a) 24.238(a) 27.53(h) | RSS-132(4.5.1) RSS-133(6.5.2) RSS-139(6.5.2) | Band Edge / Conducted Spurious Emissions | > 43 + log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions | CONDUCTED | PASS | Section 7.0 |
| 24.232(d) 27.50(d.5) | RSS-132(5.4) RSS-133(6.4) RSS-139(6.4) | Peak-Average Ratio | < 13 dB | CONDUCTED | PASS | Section 7.0 |
| 2.1046 | RSS-132(4.4) RSS-133(4.1) RSS-139(4.1) | Transmitter Conducted Output Power | N/A | | PASS | RF Exposure Report |
| 22.913(a.2) | RSS-132(4.4) [SRSP-503(5.1.3)] | Effective Radiated Power | < 7 Watts max. ERP | | PASS | Section 6.2 |
| 24.232(c) | RSS-133(6.4) [SRSP-510(5.1.2)] | Equivalent Isotropic Radiated Power | < 2 Watts max. EIRP | | PASS | Section 6.4 |
| 27.50(d.4) | RSS-139(6.4) | Equivalent Isotropic Radiated Power (Band 4) | < 1 Watts max. EIRP | RADIATED | PASS | Section 6.3 |
| 2.1053 22.917(a) 24.238(a) 27.53(h) | RSS-132(4.5.1) RSS-133(6.5.2) RSS-139(6.5.2) | Undesirable Emissions | > 43 + log ₁₀ (P[Watts]) for all out- of-band emissions | | PASS | Sections 6.5, 6.6, 6.7, 6.8, 6.9 |
| 2.1055 22.355 24.235 27.54 | RSS-132(4.3) RSS-133(6.3) RSS-139(6.3) | Frequency Stability | < 2.5 ppm (Part 22) Emission must remain in band (Part 24, 27) | | PASS | Sections 6.10, 6.11, 6.12, 6.13, 6.14 |

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 Section 7.0 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 Cellular Effective Radiated Power (ERP) §22.913(a)(2) RSS-132(4.4) [SRSP-503(5.1.3)]

| Frequency [MHz] | Mode | Battery Type | Substitute Level [dBm] | Antenna Gain [dBd] | Pol [H/V] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|--------------------|---------|-----------------|------------------------------|--------------------------|--------------|--------------|----------------|-----------------------|----------------|
| 824.20 | GSM850 | Standard | 27.55 | 4.59 | V | 32.14 | 1.638 | 38.45 | -6.31 |
| 836.60 | GSM850 | Standard | 27.67 | 4.82 | V | 32.49 | 1.776 | 38.45 | -5.96 |
| 848.80 | GSM850 | Standard | 26.65 | 5.05 | V | 31.70 | 1.479 | 38.45 | -6.75 |
| 836.60 | EDGE850 | Standard | 22.65 | 4.82 | V | 27.47 | 0.559 | 38.45 | -10.98 |

 Table 6-2. ERP (Cellular GSM)

| Mode | Battery Type | Substitute Level [dBm] | Antenna Gain [dBd] | Pol [H/V] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|----------|----------------------|--|--|---|--|---|--|--|
| WCDMA850 | Standard | 16.48 | 4.59 | V | 21.07 | 0.128 | 38.45 | -17.38 |
| WCDMA850 | Standard | 15.88 | 4.82 | V | 20.70 | 0.118 | 38.45 | -17.75 |
| WCDMA850 | Standard | 15.02 | 5.05 | V | 20.07 | 0.102 | 38.45 | -18.38 |
| _ | WCDMA850 WCDMA850 | ModeTypeWCDMA850StandardWCDMA850StandardWCDMA850Standard | ModeBattery TypeLevel [dBm]WCDMA850Standard16.48WCDMA850Standard15.88WCDMA850Standard15.02 | ModeBattery TypeLevel [dBm]Gain [dBd]WCDMA850Standard16.484.59WCDMA850Standard15.884.82WCDMA850Standard15.025.05 | ModeBattery TypeLevel [dBm]Gain [dBd]Pol [H/V]WCDMA850Standard16.484.59VWCDMA850Standard15.884.82VWCDMA850Standard15.025.05V | ModeBattery TypeLevel [dBm]Gain [dBd]Pol [H/V]ERP [dBm]WCDMA850Standard16.484.59V21.07WCDMA850Standard15.884.82V20.70WCDMA850Standard15.025.05V20.07 | ModeBattery TypeLevel [dBm]Gain [dBd]Pol [H/V]ERP [dBm]ERP [Watts]WCDMA850Standard16.484.59V21.070.128WCDMA850Standard15.884.82V20.700.118WCDMA850Standard15.025.05V20.070.102 | ModeBattery TypeLevel [dBm]Gain [dBd]Pol [H/V]ERP [dBm]ERP [Watts]ERP [Limit [dBm]WCDMA850Standard16.484.59V21.070.12838.45WCDMA850Standard15.884.82V20.700.11838.45 |

Table 6-4. ERP (Cellular WCDMA)

- This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active. This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | | | | | | |
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6.3 AWS Effective Radiated Power (EIRP) §22.913(a)(2) RSS-132(4.4) [SRSP-503(5.1.3)]

| Frequency [MHz] | Mode | Battery Type | Substitute Level [dBm] | Antenna Gain [dBi] | Pol [H/V] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|--------------------|-----------|-----------------|------------------------------|--------------------------|--------------|---------------|-----------------|------------------------|----------------|
| 1712.40 | WCDMA1700 | Standard | 14.72 | 9.89 | H2 | 24.61 | 0.289 | 30.00 | -5.39 |
| 1732.50 | WCDMA1700 | Standard | 14.96 | 9.85 | H2 | 24.81 | 0.303 | 30.00 | -5.19 |
| 1752.50 | WCDMA1700 | Standard | 15.90 | 9.81 | H2 | 25.71 | 0.372 | 30.00 | -4.29 |

Table 6-3. EIRP (AWS WCDMA)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H2 position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | |
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PCS Effective Radiated Power (EIRP) 6.4 §22.913(a)(2) RSS-132(4.4) [SRSP-503(5.1.3)]

| Frequency [MHz] | Mode | Battery Type | Substitute Level [dBm] | Antenna Gain [dBi] | Pol [H/V] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|--------------------|----------|-----------------|------------------------------|--------------------------|--------------|---------------|-----------------|------------------------|----------------|
| 1850.20 | GSM1900 | Standard | 22.64 | 9.60 | H2 | 32.24 | 1.675 | 33.01 | -0.77 |
| 1880.00 | GSM1900 | Standard | 21.56 | 9.53 | H2 | 31.09 | 1.286 | 33.01 | -1.92 |
| 1909.80 | GSM1900 | Standard | 22.07 | 9.47 | H2 | 31.54 | 1.427 | 33.01 | -1.47 |
| 1850.20 | EDGE1900 | Standard | 17.50 | 9.60 | H2 | 27.10 | 0.513 | 33.01 | -5.91 |

Table 6-4. EIRP (PCS GSM)

| Frequency [MHz] | Mode | Battery Type | Substitute Level [dBm] | Antenna Gain [dBi] | Pol [H/V] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|--------------------|-----------|-----------------|------------------------------|--------------------------|--------------|---------------|-----------------|------------------------|----------------|
| 1852.40 | WCDMA1900 | Standard | 14.73 | 9.59 | H2 | 24.32 | 0.271 | 33.01 | -8.69 |
| 1880.00 | WCDMA1900 | Standard | 13.43 | 9.53 | H2 | 22.96 | 0.198 | 33.01 | -10.05 |
| 1907.60 | WCDMA1900 | Standard | 13.69 | 9.48 | H2 | 23.17 | 0.207 | 33.01 | -9.84 |
| | | | | | | | | | |

Table 6-4. EIRP (PCS WCDMA)

- 1) This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active. This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H2 position. The data reported in the table above was measured in this test setup.

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6.5 Cellular GSM Radiated Measurements

<u>§2.1053 §22.917(a) RSS-132(4.5.1)</u>

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 824.2 | MHz | |
|------------------------|---------------------------------|--------|---------|
| CHANNEL: | 128 | 3 | _ |
| MEASURED OUTPUT POWER: | 32.14 | dBm = | 1.638 W |
| MODULATION SIGNAL: | GSM (GMSK) | | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 45.14 | dBc |

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 1648.40 | -50.16 | 2.60 | -47.56 | Н | 79.7 |
| 2472.60 | -38.64 | 2.90 | -35.75 | Н | 67.9 |
| 3296.80 | -81.79 | 5.44 | -76.35 | Н | 108.5 |
| 4121.00 | -81.50 | 7.05 | -74.45 | Н | 106.6 |
| 4945.20 | -80.98 | 7.86 | -73.12 | Н | 105.3 |

Table 6-5. Radiated Spurious Data (Cellular GSM Mode – Ch. 128)

- 1) This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
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<u>§2.1053 §22.917(a) RSS-132(4.5.1)</u>

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 836. | 60 | MHz |
|------------------------|---------------------------------|--------|--------|
| CHANNEL: | 190 |) | _ |
| MEASURED OUTPUT POWER: | 32.49 | dBm = | 1.776W |
| MODULATION SIGNAL: | GSM (GMSK) | | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 45.49 | dBc |

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | EUT POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|------------------|-------|
| 1673.20 | -47.34 | 2.34 | -45.00 | Н | 77.5 |
| 2509.80 | -38.25 | 2.84 | -35.41 | н | 67.9 |
| 3346.40 | -81.98 | 5.64 | -76.33 | н | 108.8 |
| 4183.00 | -81.65 | 7.15 | -74.51 | Н | 107.0 |
| 5019.60 | -81.01 | 7.97 | -73.04 | Н | 105.5 |

Table 6-6. Radiated Spurious Data (Cellular GSM Mode – Ch. 190)

- 1) This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | |
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Cellular GSM Radiated Measurements (Cont'd) §2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 848. | 80 | MHz |
|------------------------|---------------------------------|--------|----------------|
| CHANNEL: | 25 | 1 | |
| MEASURED OUTPUT POWER: | 31.70 | dBm = | <u>1.479</u> W |
| MODULATION SIGNAL: | GSM (GMSK) | _ | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 44.70 | dBc |

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 1697.60 | -48.20 | 2.08 | -46.12 | Н | 77.8 |
| 2546.40 | -38.84 | 3.17 | -35.67 | Н | 67.4 |
| 3395.20 | -82.15 | 5.84 | -76.31 | Н | 108.0 |
| 4244.00 | -81.80 | 7.24 | -74.56 | Н | 106.3 |
| 5092.80 | -80.78 | 8.03 | -72.76 | Н | 104.5 |

Table 6-7. Radiated Spurious Data (Cellular GSM Mode – Ch. 251)

- 1) This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
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6.6 Cellular WCDMA Radiated Measurements §2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 826.4 | 40 | MHz |
|------------------------|---------------------------------|--------|---------|
| CHANNEL: | 413 | 2 | _ |
| MEASURED OUTPUT POWER: | 21.07 | dBm = | 0.128 W |
| MODULATION SIGNAL: | WCDMA | | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 34.07 | dBc |

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 1652.80 | -55.56 | 2.55 | -53.01 | Н | 74.1 |
| 2479.20 | -79.80 | 2.86 | -76.93 | Н | 98.0 |
| 3305.60 | -81.82 | 5.48 | -76.35 | Н | 97.4 |
| 4132.00 | -81.53 | 7.06 | -74.46 | Н | 95.5 |
| 4958.40 | -81.00 | 7.88 | -73.12 | Н | 94.2 |

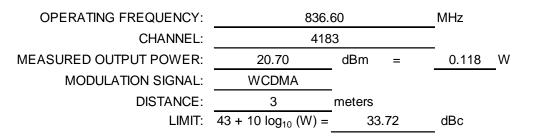
 Table 6-8. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4132)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | | |
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Cellular WCDMA Radiated Measurements (Cont'd) §2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation



| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | EUT POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|------------------|-------|
| 1673.20 | -48.91 | 2.37 | -46.54 | Н | 67.2 |
| 2509.80 | -79.73 | 2.80 | -76.93 | Н | 97.6 |
| 3346.40 | -81.96 | 5.62 | -76.35 | Н | 97.0 |
| 4183.00 | -81.60 | 7.13 | -74.46 | н | 95.2 |
| 5019.60 | -81.07 | 7.96 | -73.12 | н | 93.8 |

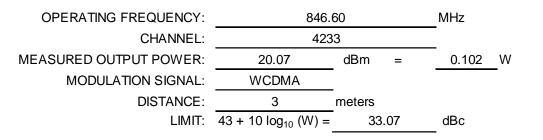
Table 6-9. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4183)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its sole, and the "V" position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | | | |
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Cellular WCDMA Radiated Measurements (Cont'd) §2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation



| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 1693.20 | -55.80 | 2.13 | -53.67 | Н | 73.7 |
| 2539.80 | -80.05 | 3.11 | -76.93 | Н | 97.0 |
| 3386.40 | -82.15 | 5.80 | -76.35 | Н | 96.4 |
| 4233.00 | -81.69 | 7.22 | -74.46 | Н | 94.5 |
| 5079.60 | -81.13 | 8.01 | -73.12 | Н | 93.2 |

Table 6-10. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4233)

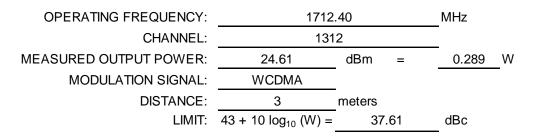
- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 2) This unit was tested with its standard battery.
- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its sole, and the "V" position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------------|--|---|---------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 21 of 72 | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 21 01 72 | |
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6.7 AWS WCDMA Radiated Measurements §2.1053 §24.238(a) RSS-139(6.5.2)

Field Strength of SPURIOUS Radiation



| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | EUT POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|------------------|-------|
| 3424.80 | -53.22 | 8.11 | -45.11 | н | 69.7 |
| 5137.20 | -81.99 | 10.21 | -71.78 | н | 96.4 |
| 6849.60 | -80.47 | 11.32 | -69.15 | н | 93.8 |
| 8562.00 | -79.97 | 13.03 | -66.94 | н | 91.6 |
| 10274.40 | -76.88 | 13.02 | -63.86 | н | 88.5 |

Table 6-11. Radiated Spurious Data (AWS WCDMA Mode – Ch. 9262)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------------|--|---|---------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 22 of 72 | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 22 01 72 | |
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AWS WCDMA Radiated Measurements (Cont'd) §2.1053 §24.238(a) RSS-139(6.5.2)

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 1732.50 | | MHz |
|------------------------|---------------------------------|--------|---------|
| CHANNEL: | 1412 | | _ |
| MEASURED OUTPUT POWER: | 24.81 | dBm = | 0.303 W |
| MODULATION SIGNAL: | WCDMA | | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 37.81 | dBc |

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | EUT POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|------------------|-------|
| 3465.00 | -51.83 | 8.26 | -43.57 | Н | 68.4 |
| 5197.50 | -82.04 | 10.26 | -71.78 | н | 96.6 |
| 6930.00 | -80.57 | 11.42 | -69.15 | Н | 94.0 |
| 8662.50 | -80.01 | 13.07 | -66.94 | Н | 91.8 |
| 10395.00 | -76.97 | 13.12 | -63.86 | Н | 88.7 |

Table 6-12. Radiated Spurious Data (AWS WCDMA Mode – Ch. 9400)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
|------------------------------|--|---|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 23 of 72 | |
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AWS WCDMA Radiated Measurements (Cont'd) §2.1053 §24.238(a) RSS-139(6.5.2)

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 1752 | 2.50 | MHz |
|------------------------|---------------------------------|--------|---------|
| CHANNEL: | 186 | 62 | |
| MEASURED OUTPUT POWER: | 25.71 | dBm = | 0.372 W |
| MODULATION SIGNAL: | WCDMA | _ | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 38.71 | dBc |

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | EUT POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|------------------|-------|
| 3505.00 | -53.95 | 8.40 | -45.55 | Н | 71.3 |
| 5257.50 | -82.09 | 10.31 | -71.78 | н | 97.5 |
| 7010.00 | -80.66 | 11.51 | -69.15 | н | 94.9 |
| 8762.50 | -80.05 | 13.11 | -66.94 | Н | 92.7 |
| 10515.00 | -77.06 | 13.20 | -63.86 | Н | 89.6 |

Table 6-13. Radiated Spurious Data (AWS WCDMA Mode – Ch. 9538)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 24 of 72 |
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6.8 PCS GSM Radiated Measurements §2.1053 §24.238(a) RSS-133(6.5.2)

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 1850 | .20 | MHz |
|------------------------|---------------------------------|--------|---------|
| CHANNEL: | 512 | 2 | _ |
| MEASURED OUTPUT POWER: | 32.24 | dBm = | 1.675 W |
| MODULATION SIGNAL: | GSM (GMSK) | _ | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 45.24 | dBc |

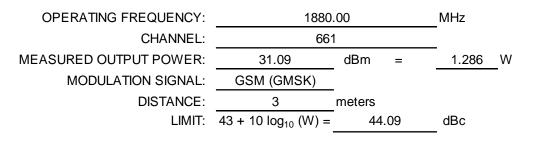
| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 3700.40 | -57.58 | 8.40 | -49.18 | Н | 81.4 |
| 5550.60 | -84.17 | 10.62 | -73.55 | Н | 105.8 |
| 7400.80 | -82.17 | 11.82 | -70.35 | Н | 102.6 |
| 9251.00 | -81.58 | 13.30 | -68.28 | Н | 100.5 |
| 11101.20 | -78.19 | 13.50 | -64.69 | Н | 96.9 |

Table 6-14. Radiated Spurious Data (PCS GSM Mode – Ch. 512)

- 1) This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
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Field Strength of SPURIOUS Radiation



| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | EUT POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|------------------|-------|
| 3760.00 | -54.26 | 8.42 | -45.83 | Н | 76.9 |
| 5640.00 | -81.96 | 10.66 | -71.30 | н | 102.4 |
| 7520.00 | -79.89 | 11.92 | -67.96 | н | 99.1 |
| 9400.00 | -79.01 | 13.24 | -65.77 | н | 96.9 |
| 11280.00 | -75.76 | 13.49 | -62.28 | Н | 93.4 |

Table 6-15. Radiated Spurious Data (PCS GSM Mode – Ch. 661)

- 1) This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 26 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 20 01 72 |
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Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 1909.80 | | MHz |
|------------------------|---------------------------------|--------|--------|
| CHANNEL: | 810 | | |
| MEASURED OUTPUT POWER: | 31.54 | dBm = | 1.427W |
| MODULATION SIGNAL: | GSM (GMSK) | _ | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 44.54 | dBc |

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 3819.60 | -57.97 | 8.57 | -49.40 | Н | 80.9 |
| 5729.40 | -84.04 | 10.69 | -73.35 | н | 104.9 |
| 7639.20 | -82.04 | 12.07 | -69.97 | н | 101.5 |
| 9549.00 | -80.84 | 13.20 | -67.64 | н | 99.2 |
| 11458.80 | -77.84 | 13.42 | -64.43 | Н | 96.0 |

Table 6-16. Radiated Spurious Data (PCS GSM Mode – Ch. 810)

- 1) This device was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
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6.9 PCS WCDMA Radiated Measurements

§2.1053 §24.238(a) RSS-133(6.5.2)

Field Strength of SPURIOUS Radiation

| OPERATING FREQUENCY: | 1852. | .40 | MHz |
|------------------------|---------------------------------|--------|---------|
| CHANNEL: | 926 | 2 | |
| MEASURED OUTPUT POWER: | 24.32 | dBm = | 0.271 W |
| MODULATION SIGNAL: | WCDMA | | |
| DISTANCE: | 3 | meters | |
| LIMIT: | 43 + 10 log ₁₀ (W) = | 37.32 | dBc |

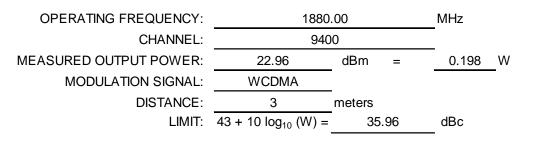
| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 3704.80 | -55.31 | 8.40 | -46.91 | Н | 71.2 |
| 5557.20 | -82.02 | 10.62 | -71.39 | н | 95.7 |
| 7409.60 | -80.01 | 11.83 | -68.19 | н | 92.5 |
| 9262.00 | -79.40 | 13.30 | -66.10 | н | 90.4 |
| 11114.40 | -76.02 | 13.50 | -62.52 | Н | 86.8 |

Table 6-17. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case configuration was found in the H position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | |
|-----------------------------|------------------|---|---------------------|
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Field Strength of SPURIOUS Radiation



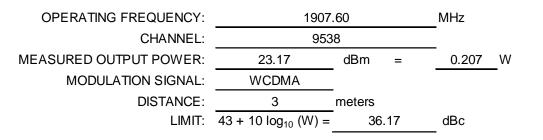
| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | EUT POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|------------------|-------|
| 3760.00 | -53.42 | 8.42 | -45.00 | н | 68.0 |
| 5640.00 | -82.05 | 10.66 | -71.39 | н | 94.4 |
| 7520.00 | -80.11 | 11.92 | -68.19 | н | 91.1 |
| 9400.00 | -79.34 | 13.24 | -66.10 | н | 89.1 |
| 11280.00 | -76.01 | 13.49 | -62.52 | н | 85.5 |

 Table 6-18. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its sole, and the "V" position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------------|--|---|---------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 29 of 72 | |
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Field Strength of SPURIOUS Radiation



| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | SPURIOUS EMISSION LEVEL (dBm) | POL (H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 3815.20 | -55.45 | 8.56 | -46.89 | Н | 70.1 |
| 5722.80 | -82.08 | 10.69 | -71.39 | Н | 94.6 |
| 7630.40 | -80.24 | 12.06 | -68.19 | Н | 91.4 |
| 9538.00 | -79.30 | 13.20 | -66.10 | Н | 89.3 |
| 11445.60 | -75.94 | 13.42 | -62.52 | Н | 85.7 |

Table 6-19. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

- This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. This device was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 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 "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing up on its sole, and the "V" position. The data reported in the table above was measured in this test setup.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | | |
|------------------------------|--|---|---------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 30 of 72 | |
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6.10 Cellular GSM Frequency Stability Measurements §2.1055 §22.355 RSS-132(4.3)

OPERATING FREQUENCY: 836,600,000 Hz

CHANNEL: _____190

REFERENCE VOLTAGE: 3.8 VDC

DEVIATION LIMIT: ±0.00025 % or 2.5 ppm

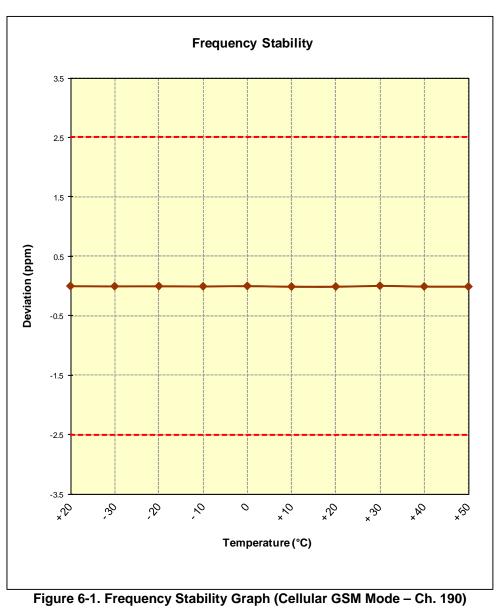
| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|----------------|--------------|-------------------|--------------------|------------------|
| 100 % | 3.80 | +20 (Ref) | 836,599,999 | -1 | -0.0000001 |
| 100 % | | - 30 | 836,599,996 | -4 | -0.0000005 |
| 100 % | | - 20 | 836,599,998 | -2 | -0.0000002 |
| 100 % | | - 10 | 836,599,995 | -5 | -0.0000006 |
| 100 % | | 0 | 836,600,000 | 0 | 0.0000000 |
| 100 % | | + 10 | 836,599,991 | -9 | -0.0000011 |
| 100 % | | + 20 | 836,599,991 | -9 | -0.0000011 |
| 100 % | | + 30 | 836,600,003 | 3 | 0.0000004 |
| 100 % | | + 40 | 836,599,993 | -7 | -0.0000008 |
| 100 % | | + 50 | 836,599,991 | -9 | -0.0000011 |
| 115 % | 4.37 | + 20 | 836,599,994 | -6 | -0.0000007 |
| BATT. ENDPOINT | 3.2 | + 20 | 836,600,000 | 0 | 0.0000000 |

Table 6-20. Frequency Stability Data (Cellular GSM Mode – Ch. 190)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
|------------------------------|--|---|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 31 of 72 | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage ST 0172 | |
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Cellular GSM Frequency Stability Measurements (Cont'd) §2.1055 §22.355 RSS-132(4.3)



| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 32 of 72 |
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6.11 Cellular WCDMA Frequency Stability Measurements §2.1055 §22.355 RSS-132(4.3)

OPERATING FREQUENCY: 836,600,000 Hz

CHANNEL: _____ 4183

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) | 836,600,003 | 3 | 0.0000004 |
| 100 % | | - 30 | 836,599,999 | -1 | -0.0000001 |
| 100 % | | - 20 | 836,599,991 | -9 | -0.0000011 |
| 100 % | | - 10 | 836,600,002 | 2 | 0.0000002 |
| 100 % | | 0 | 836,599,993 | -7 | -0.0000008 |
| 100 % | | + 10 | 836,599,997 | -3 | -0.0000004 |
| 100 % | | + 20 | 836,599,997 | -3 | -0.0000004 |
| 100 % | | + 30 | 836,599,997 | -3 | -0.0000004 |
| 100 % | | + 40 | 836,599,993 | -7 | -0.0000008 |
| 100 % | | + 50 | 836,599,992 | -8 | -0.0000010 |
| 115 % | 4.37 | + 20 | 836,599,995 | -5 | -0.0000006 |
| BATT. ENDPOINT | | + 20 | 836,600,002 | 2 | 0.0000002 |

Table 6-21. Frequency Stability Data (Cellular WCDMA Mode – Ch. 4183)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
|------------------------------|--|---|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 33 of 72 | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 33 01 72 | |
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Cellular WCDMA Frequency Stability Measurements (Cont'd) §2.1055 §22.355 RSS-132(4.3)

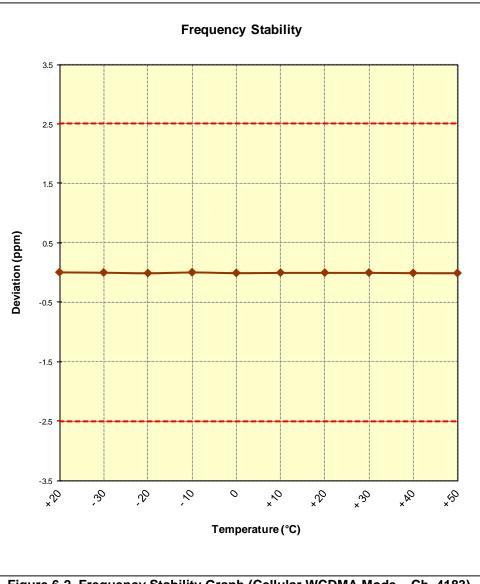


Figure 6-2. Frequency Stability Graph (Cellular WCDMA Mode – Ch. 4183)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 24 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 34 of 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 |

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6.12 AWS WCDMA Frequency Stability Measurements §2.1055 §27.54 RSS-139(6.3)

OPERATING FREQUENCY: 1,732,500,000 Hz

CHANNEL: 1412

 REFERENCE VOLTAGE:
 3.8
 VDC

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|----------------|--------------|-------------------|--------------------|------------------|
| 100 % | 3.80 | +20 (Ref) | 1,732,499,994 | -6 | -0.0000003 |
| 100 % | | - 30 | 1,732,500,001 | 1 | 0.0000001 |
| 100 % | | - 20 | 1,732,499,998 | -2 | -0.0000001 |
| 100 % | | - 10 | 1,732,500,001 | 1 | 0.0000001 |
| 100 % | | 0 | 1,732,499,998 | -2 | -0.0000001 |
| 100 % | | + 10 | 1,732,500,003 | 3 | 0.0000002 |
| 100 % | | + 20 | 1,732,499,991 | -9 | -0.0000005 |
| 100 % | | + 30 | 1,732,499,989 | -11 | -0.0000006 |
| 100 % | | + 40 | 1,732,499,994 | -6 | -0.0000003 |
| 100 % | | + 50 | 1,732,499,987 | -13 | -0.0000008 |
| 115 % | 4.37 | + 20 | 1,732,499,986 | -14 | -0.0000008 |
| BATT. ENDPOINT | 3.20 | + 20 | 1,732,499,993 | -7 | -0.0000004 |

Table 6-22. Frequency Stability Data (AWS WCDMA Mode – Ch. 1413)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain inband when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 25 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 35 of 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 04/15/2013 |



AWS WCDMA Frequency Stability Measurements (Cont'd) §2.1055 §27.54 RSS-139(6.3)

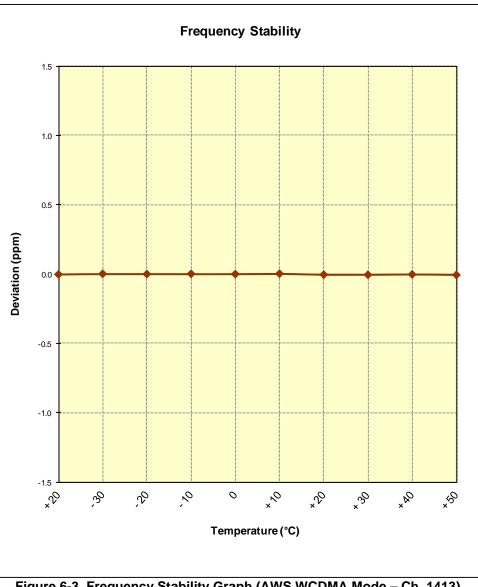


Figure 6-3. Frequency Stability Graph (AWS WCDMA Mode – Ch. 1413)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 36 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 36 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | · | V 2.9 |

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6.13 PCS GSM Frequency Stability Measurements §2.1055 §24.235 RSS-139(6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 661

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 | 0.0000002 |
| 100 % | | - 30 | 1,879,999,988 | -12 | -0.0000006 |
| 100 % | | - 20 | 1,879,999,988 | -12 | -0.0000006 |
| 100 % | | - 10 | 1,879,999,989 | -11 | -0.0000006 |
| 100 % | | 0 | 1,880,000,004 | 4 | 0.0000002 |
| 100 % | | + 10 | 1,879,999,998 | -2 | -0.0000001 |
| 100 % | | + 20 | 1,879,999,985 | -15 | -0.0000008 |
| 100 % | | + 30 | 1,879,999,990 | -10 | -0.0000005 |
| 100 % | | + 40 | 1,879,999,988 | -12 | -0.0000006 |
| 100 % | | + 50 | 1,879,999,995 | -5 | -0.0000003 |
| 115 % | 4.37 | + 20 | 1,879,999,994 | -6 | -0.0000003 |
| BATT. ENDPOINT | 3.20 | + 20 | 1,879,999,988 | -12 | -0.0000006 |

Table 6-23. Frequency Stability Data (PCS GSM Mode - Ch. 661)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain inband when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | |
|------------------------------|------------------|---|---------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 27 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 37 of 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 04/15/2013 |



PCS GSM Frequency Stability Measurements (Cont'd) §2.1055 §24.235 RSS-139(6.3)

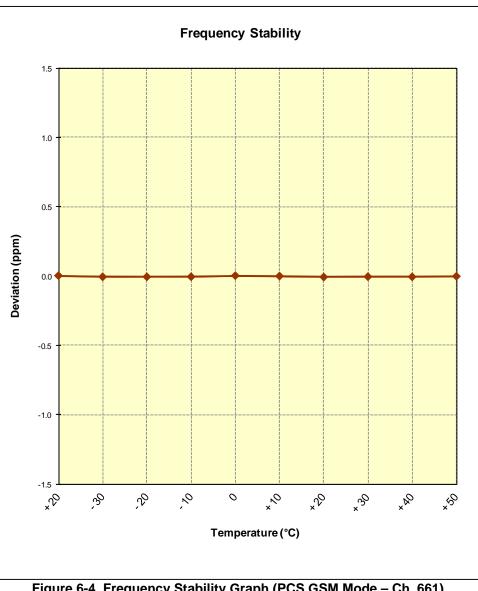


Figure 6-4. Frequency Stability Graph (PCS GSM Mode – Ch. 661)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 38 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 36 01 72 |
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6.14 PCS WCDMA Frequency Stability Measurements §2.1055 §24.235 RSS-139(6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 9400

REFERENCE VOLTAGE: <u>3.8</u> VDC

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|----------------|--------------|-------------------|--------------------|------------------|
| 100 % | 3.80 | +20 (Ref) | 1,879,999,988 | -12 | -0.0000006 |
| 100 % | | - 30 | 1,879,999,988 | -12 | -0.0000006 |
| 100 % | | - 20 | 1,879,999,999 | -1 | -0.0000001 |
| 100 % | | - 10 | 1,880,000,000 | 0 | 0.0000000 |
| 100 % | | 0 | 1,879,999,997 | -3 | -0.0000002 |
| 100 % | | + 10 | 1,879,999,993 | -7 | -0.0000004 |
| 100 % | | + 20 | 1,879,999,985 | -15 | -0.0000008 |
| 100 % | | + 30 | 1,880,000,003 | 3 | 0.0000002 |
| 100 % | | + 40 | 1,879,999,993 | -7 | -0.0000004 |
| 100 % | | + 50 | 1,879,999,988 | -12 | -0.0000006 |
| 115 % | 4.37 | + 20 | 1,879,999,994 | -6 | -0.0000003 |
| BATT. ENDPOINT | 3.20 | + 20 | 1,880,000,000 | 0 | 0.0000000 |

Table 6-24. Frequency Stability Data (PCS WCDMA Mode – Ch. 9400)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain inband when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 20 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 39 of 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 04/15/2013 |



PCS WCDMA Frequency Stability Measurements (Cont'd) §2.1055 §24.235 RSS-139(6.3)

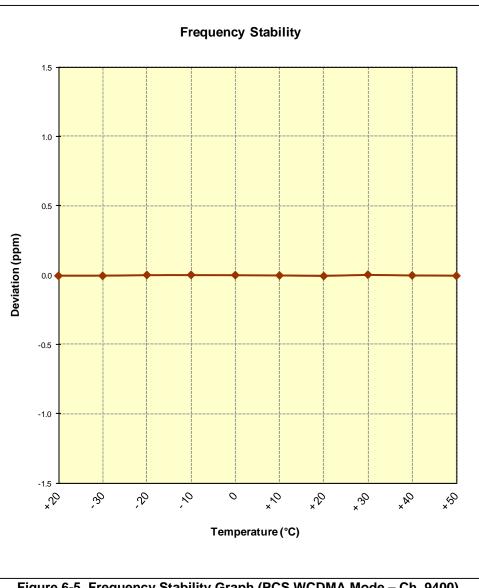
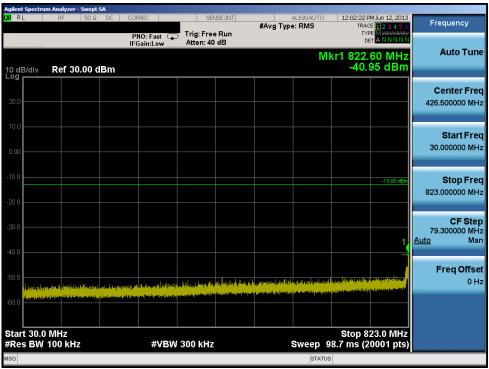


Figure 6-5. Frequency Stability Graph (PCS WCDMA Mode – Ch. 9400)

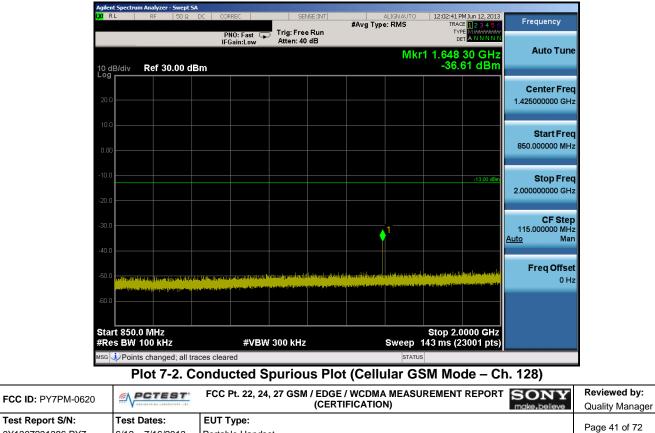
| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 40 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 40 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 |



PLOTS OF EMISSIONS 7.0



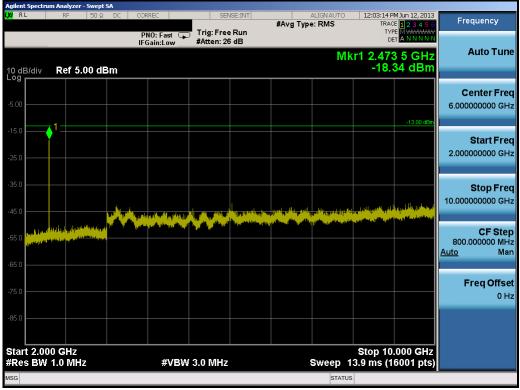
Plot 7-1. Conducted Spurious Plot (Cellular GSM Mode - Ch. 128)



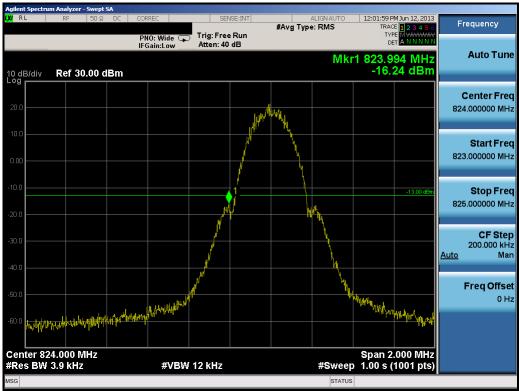
| | ····· Y INCIDENTIAL LINGUARDAY, INC. | (CERTIFICATION) | make.believe |
|-----------------------------|--------------------------------------|------------------|--------------|
| Test Report S/N: | Test Dates: | EUT Type: | |
| 0Y1307231386.PY7 | 6/12 – 7/16/2013 | Portable Handset | |
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Plot 7-3. Conducted Spurious Plot (Cellular GSM Mode - Ch. 128)



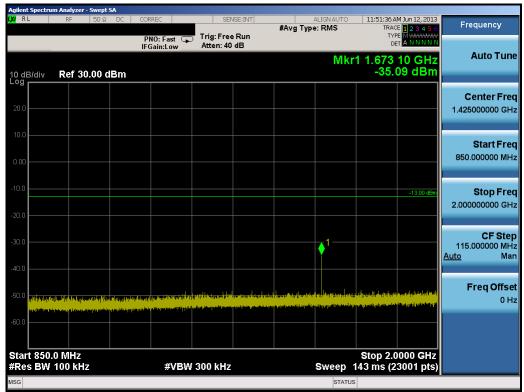
Plot 7-4. Band Edge Plot (Cellular GSM Mode – Ch. 128)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dega 42 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 42 of 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | • | V 2.9 |



| igilent Spectrum Analyzer - Swept SA XI RL RF 50 Ω DC | CORREC | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 11:51:03 AM Ju TRACE | n 12,2013 2 3 4 5 6 Wallward |
|--|---|-------------------------------|---|---------------------------|---|
| 10 dB/div Ref 30.00 dBm | | rig: Free Run Atten: 40 dB | N | Ikr1 702.86 -49.56 | MHz Auto Tune |
| 20.0 | | | | | Center Free 426.500000 MH |
| 0.00 | | | | | Start Free 30.000000 MH |
| -10.0 | | | | | -13.00 dBm Stop Free 823.000000 MH |
| 30.0 | | | | | CF Ste 79.300000 MH <u>Auto</u> Ma |
| 50.0 | d (jeweit) begenste Amerika beredense | | an bhuan na chun bha an bha an bha an tair an 1916. An tairtean bhaile An tairtean an tairtean an tair | | Freq Offse |
| 60.0 biological and the second of particular second s | n an an the action of the Unit of the U | | | | |
| FRES BW 100 kHz | #VBW 30 | 00 kHz | Sweep | Stop 823. 98.7 ms (200 | 01 pts) |

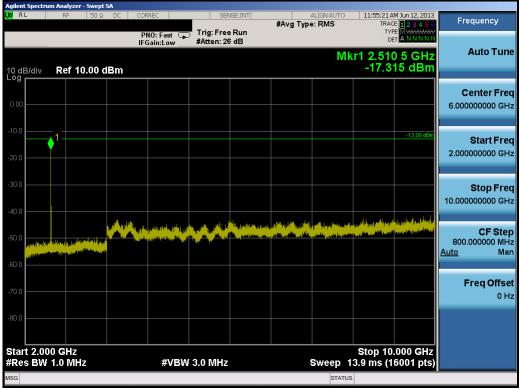




Plot 7-6. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|--|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 42 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 43 of 72 |
| © 2013 PCTEST Engineering Laboratory, Inc. | | | |





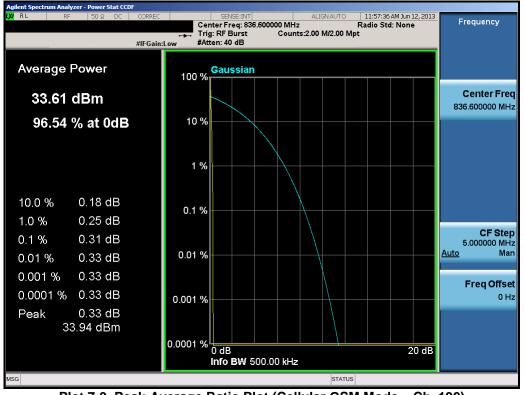
Plot 7-7. Conducted Spurious Plot (Cellular GSM Mode - Ch. 190)

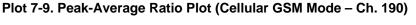


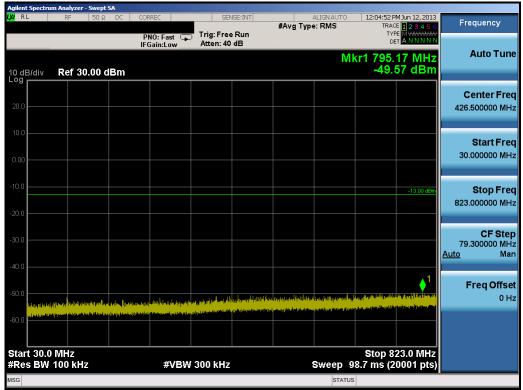
Plot 7-8. Occupied Bandwidth Plot (Cellular GSM Mode - Ch. 190)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 44 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Faye 44 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | · | V 2.9 |









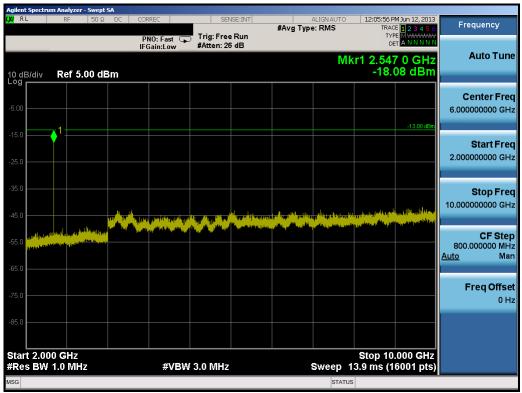
Plot 7-10. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 45 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 45 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 |



| Agilent Spectru | m Analyzer - Swept SA RF 50 Ω DC | CORREC | SENSE:INT | | ALIGNAUTO | 10/05/00 DM 3 | m 10, 0010 | |
|-----------------------|-------------------------------------|--|--|--|-----------|---|-----------------------------|---|
| LA KL | KF SU 92 DC | | | #Avg Typ | | 12:05:22 PM Ju TRACE | 2 3 4 5 6 | Frequency |
| | | PNO: Fast 🖵 IFGain:Low | Trig: Free Run Atten: 40 dB | | | DET | NNNNN | |
| 10 dB/div | Ref 30.00 dBm | | | | Mkr | 1 1.697 75 -35.53 | 5 GHz dBm | Auto Tune |
| 20.0 | | | | | | | | Center Freq 1.425000000 GHz |
| 0.00 | | | | | | | | Start Freq 850.000000 MHz |
| -10.0 | | | | | | | -13.00 dBm | Stop Freq 2.000000000 GHz |
| -30.0 | | | | | •1 | | | CF Step 115.000000 MHz <u>Auto</u> Man |
| | Navigni) na ppanya na fijna kana pa | gargenil (1997) og som er ra sjil i Verense 1 jangenil (1997) og som er ra sjil i Verense | an a | e <mark>len allen av der besette</mark> Rechtere beiden | | t ya hizang kateng Kande Mille a palanang Pepuanatan New | n ann an tha ann an tha tha | Freq Offset 0 Hz |
| -60.0 | | | | | | | | |
| Start 850. #Res BW | | #VBW | 300 kHz | | Sweep | Stop 2.000 143 ms (230 | 00 GHz | |
| 1 | ts changed; all traces | | | | STATUS | | /*** | |
| • | | | | | | | | 054) |

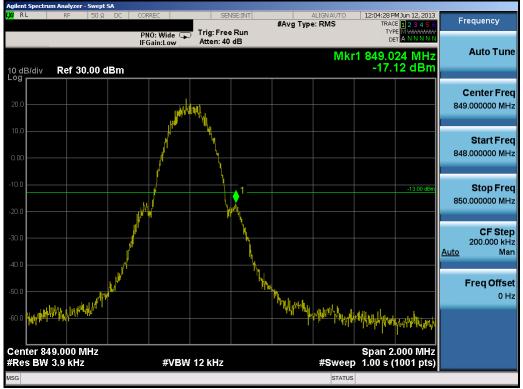




Plot 7-12. Conducted Spurious Plot (Cellular GSM Mode - Ch. 251)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | | |
|------------------------------|--|---|---------------------------------|--|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 46 of 70 | | | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 46 of 72 | | | |
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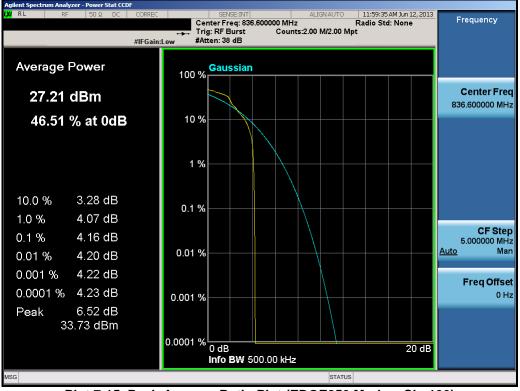
Plot 7-13. Band Edge Plot (Cellular GSM Mode - Ch. 251)



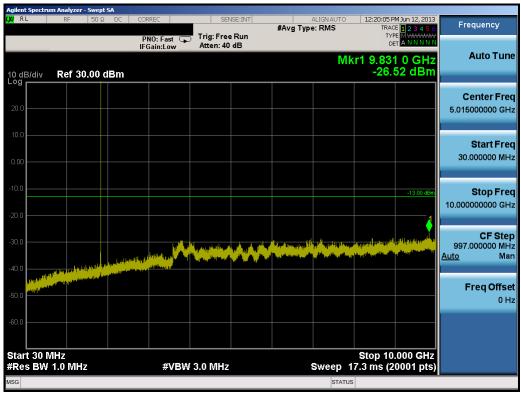
Plot 7-14. Occupied Bandwidth Plot (EDGE850 Mode – Ch. 190)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 47 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 47 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | · | V 2.9 |





Plot 7-15. Peak-Average Ratio Plot (EDGE850 Mode - Ch. 190)



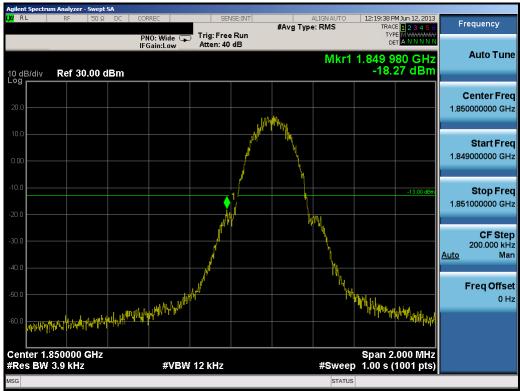


| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | | |
|-----------------------------|--|---|---------------------------------|--|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 49 of 70 | | | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 48 of 72 | | | |
| © 2013 PCTEST Engineering L | 2013 PCTEST Engineering Laboratory, Inc. | | | | | |



| Agilent Spectrum Analyzer - Swept SA | | | | - | |
|--|---|-------------------------------|--|---|--|
| LX/RL RF 50Ω DC | CORREC | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 12:20:35 PM Jun 12, 2013 TRACE 1 2 3 4 5 6 | Frequency |
| 10 dB/div Ref 0.00 dBm | | rig: Free Run Atten: 10 dB | Mkr | TYPE ANNNNN DET ANNNNN 1 18.749 5 GHz -51.60 dBm | Auto Tune |
| -10.0 | | | | -13.00 dBm | Center Freq 15.000000000 GHz |
| -20.0 | | | | | Start Freq 10.000000000 GHz |
| -40.0 | | | | | Stop Freq 20.000000000 GHz |
| -60.0 Here is a structure of the struct | neg half til fög h _{all förstand} sig half på säg på hand hand band at Sin half til fög half som som hand hand band band band band band band band b | | Angen Tanga Angen pakalan panakan pana Pang panakan pan | | CF Step 1.000000000 GHz <u>Auto</u> Man |
| -80.0 | | | | | Freq Offset 0 Hz |
| -90.0 Start 10.000 GHz #Res BW 1.0 MHz | #VBW 3. | 0 MHz | Sween 1 | Stop 20.000 GHz 7.3 ms (20001 pts) | |
| | #VDVV J. | 9 IVII 12 | SWEEP | | |
| | 0 1 4 14 | | | | |

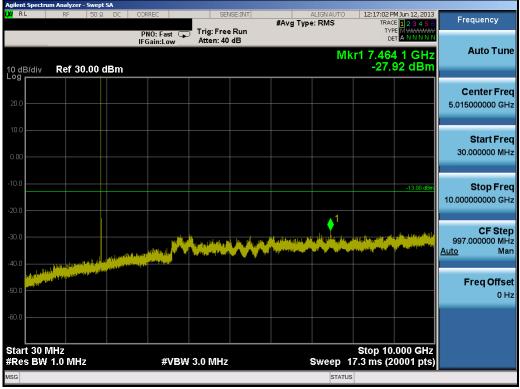




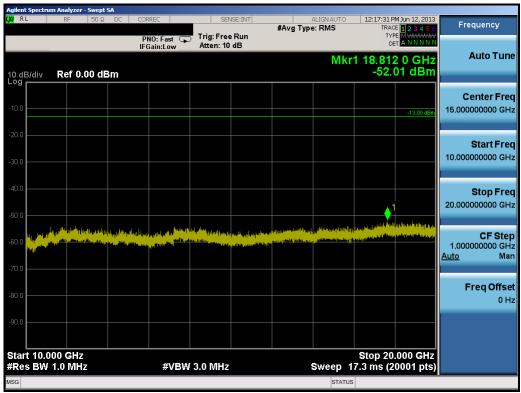
Plot 7-18. Band Edge Plot (PCS GSM Mode - Ch. 512)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | | |
|-----------------------------|--|---|---------------------------------|--|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 49 of 72 | | | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 49 01 72 | | | |
| © 2013 PCTEST Engineering L | © 2013 PCTEST Engineering Laboratory, Inc. | | | | | |









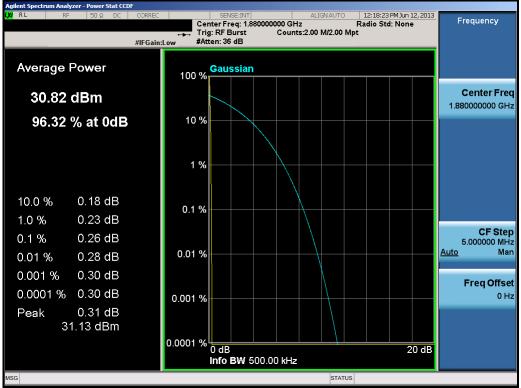
Plot 7-20. Conducted Spurious Plot (PCS GSM Mode - Ch. 661)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 50 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 50 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 |









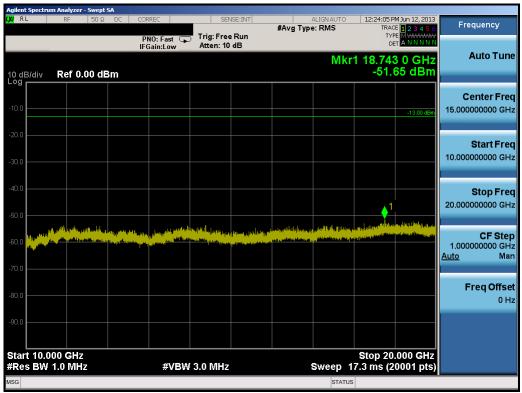
Plot 7-22. Peak-Average Ratio Plot (PCS GSM Mode – Ch. 661)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|-----------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 51 of 70 |
| 0Y1307231386.PY7 | 6/12 – 7/16/2013 | Portable Handset | Page 51 of 72 |
| © 2013 PCTEST Engineering L | aboratory, Inc. | | V 2.9 04/15/2013 |





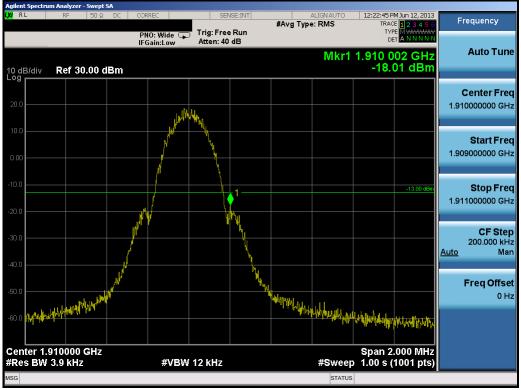


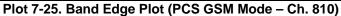


Plot 7-24. Conducted Spurious Plot (PCS GSM Mode - Ch. 810)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 52 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 52 of 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 |





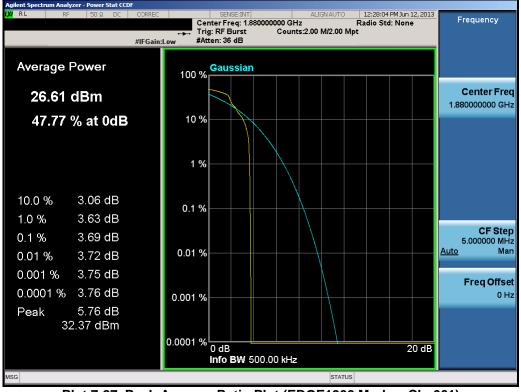




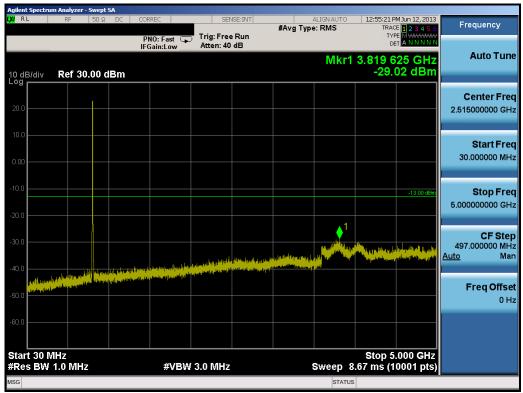
Plot 7-26. Occupied Bandwidth Plot (EDGE1900 Mode - Ch. 661)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 52 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 53 of 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 04/15/2013 |





Plot 7-27. Peak-Average Ratio Plot (EDGE1900 Mode - Ch. 661)



Plot 7-28. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | |
|------------------------------|--|---|---------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 54 of 72 | | |
| 0Y1307231386.PY7 | 6/12 – 7/16/2013 | Portable Handset | Fage 54 01 72 | | |
| © 2013 PCTEST Engineering La | 2013 PCTEST Engineering Laboratory, Inc. | | | | |



| Agilent Spectrum Analyzer - Swept SA XI RL RF 50 Ω DC | CORREC | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 12:55:48 PM Jun 12, 2013 TRACE 1 2 3 4 5 6 | Frequency |
|--|---|--|--|--|--|
| | PNO: Fast 😱 IFGain:Low | Trig: Free Run Atten: 10 dB | | TYPE MWWWWW DET ANNNNN | |
| 10 dB/div Ref 0.00 dBm | | | Mk | r1 9.775 5 GHz -58.13 dBm | Auto Tuno |
| -10.0 | | | | -13.00 dBm | Center Fre 7.500000000 GH |
| 30.0 | | | | | Start Fre 5.000000000 GH |
| -40.0 | | | | | Stop Fre 10.000000000 GH |
| | n de serve () folder d'ar ging fond de serve general a de la serve de serve de la serve de la serve de la serve | and an and a second | n 1949 yang di CC 1949 dan sa kang di ²⁹⁴ 8 di Managan di Kang di Kang di Kang di Kang di Kang | The first first particular state of the stat | CF Ste 500.000000 MH <u>Auto</u> Ma |
| 80.0 | | | | | Freq Offse 0 ⊢ |
| -90.0 | | | | Stop 10 000 CHr | |
| Res BW 1.0 MHz | #VBW | 3.0 MHz | Sweep 8 | Stop 10.000 GHz .67 ms (10001 pts) | |
| ISG | | | STATUS | | |

Plot 7-29. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)



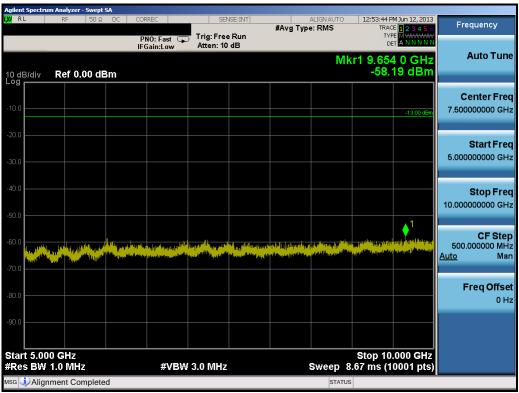
Plot 7-30. Band Edge Plot (Cellular WCDMA Mode - Ch. 4132)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 55 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 55 0172 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | · | V 2.9 |



| Agilent Spectrum Analyzer - Swept SA X/ RL RF 50 Ω | | SENSE:INT | ALIGN AUTO | 12:53:17 PM Jun 12, 2013 | |
|--|---|---|----------------|--|------------------------------------|
| | PNO: Fast 😱 | Trig: Free Run | #Avg Type: RMS | TRACE 123456 TYPE MWMMMM | Frequency |
| | IFGain:Low | Atten: 40 dB | BAland | | Auto Tune |
| 10 dB/div Ref 30.00 dB | m | | WIKET | 3.830 559 GHz -29.01 dBm | |
| | | | | | Center Freq |
| 20.0 | | | | | 2.515000000 GHz |
| 10.0 | | | | | Start Freq |
| 0.00 | | | | | 30.000000 MHz |
| | | | | | |
| -10.0 | | | | -13.00 dBm | Stop Freq 5.00000000 GHz |
| -20.0 | | | | | |
| -30.0 | | | | a an | CF Step 497.000000 MHz |
| -40.0 | and the state of the state of the state of the | an and an a stand of the standard stands | | | <u>Auto</u> Man |
| and a first to a static factor of the first state o | a statistic deal and sold a subseque a second story of the sub- | Article in the second se | | | Freq Offset |
| -50.0 | | | | | 0 Hz |
| -60.0 | | | | | |
| Start 30 MHz | | | | Stop 5.000 GHz | |
| #Res BW 1.0 MHz | #VBW : | 3.0 MHz | Sweep 8 | .67 ms (10001 pts) | |
| MSG | | | STATUS | | |

Plot 7-31. Conducted Spurious Plot (Cellular WCDMA Mode - Ch. 4183)



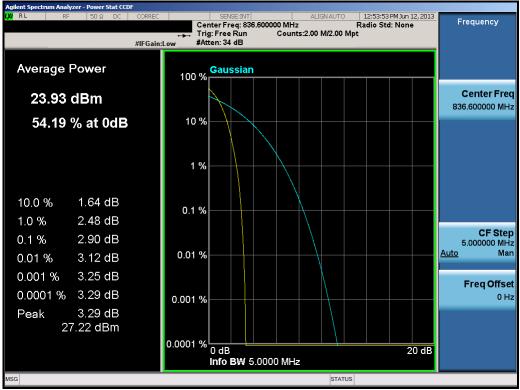
Plot 7-32. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4183)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 56 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 50 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 |





Plot 7-33. Occupied Bandwidth Plot (Cellular WCDMA Mode - Ch. 4183)



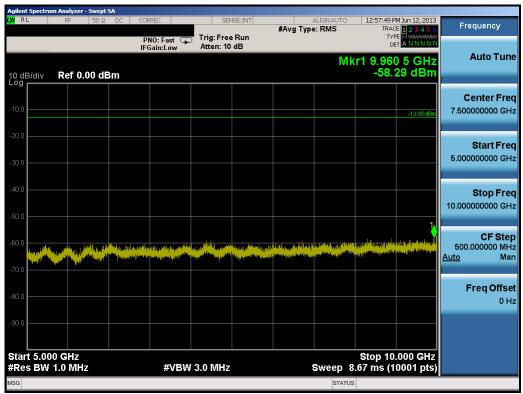
Plot 7-34. Peak-Average Ratio Plot (Cellular WCDMA Mode – Ch. 4183)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 57 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 57 0172 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | - | V 2.9 |



| Agilent Spectrum Analyzer - Swept SA X/ RL RF 50 Ω DC | CORREC | SENSE:INT | A | LIGNAUTO | 12:57:23 P | M Jun 12, 2013 | |
|--|--|---------------------------|--|----------------------|------------|--|------------------------------------|
| | PNO: Fast Trig: Fi | ree Run | #Avg Type | | TRAC | ^æ <mark>123456</mark> е М илили | Frequency |
| | IFGain:Low Atten: | 40 dB | | Mind | | | Auto Tune |
| 10 dB/div Ref 30.00 dBm | | | | IVIKET | -28. | 34 GHz 98 dBm | |
| | | | | | | | Center Freq |
| 20.0 | | | | | | | 2.515000000 GHz |
| 10.0 | | | | | | | Start Freq |
| 0.00 | | | | | | | 30.000000 MHz |
| | | | | | | | |
| -10.0 | | | | | | -13.00 dBm | Stop Freq 5.00000000 GHz |
| -20.0 | | | | . 1 | | | |
| -30.0 | | | | المريرة الأركان براد | | | CF Step 497.000000 MHz |
| -40.0 | | ullus al Pessenary, bat | The state of the s | | | | <u>Auto</u> Mar |
| | a balance of the day is the old bits of the second distribution of the seco | disk on the second second | | | | | Freq Offset |
| -50.0 | | | | | | | 0 Hz |
| -60.0 | | | | | | | |
| | | | | | | | |
| Start 30 MHz #Res BW 1.0 MHz | #VBW 3.0 MH | Iz | s | Sweep 8. | | .000 GHz 0001 pts) | |
| MSG | | | | STATUS | | | |

Plot 7-35. Conducted Spurious Plot (Cellular WCDMA Mode - Ch. 4233)



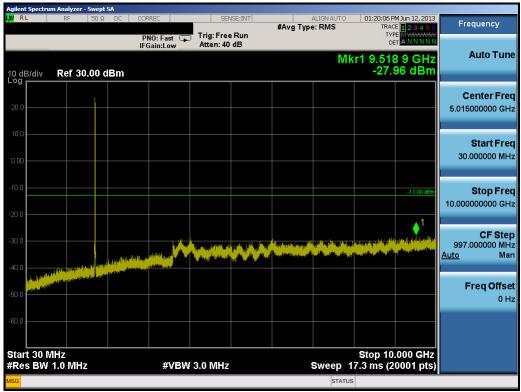
Plot 7-36. Conducted Spurious Plot (Cellular WCDMA Mode - Ch. 4233)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | | |
|--|------------------|---|---------------------------------|--|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 59 of 70 | | | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 58 of 72 | | | |
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Plot 7-37. Band Edge Plot (Cellular WCDMA Mode – Ch. 4233)



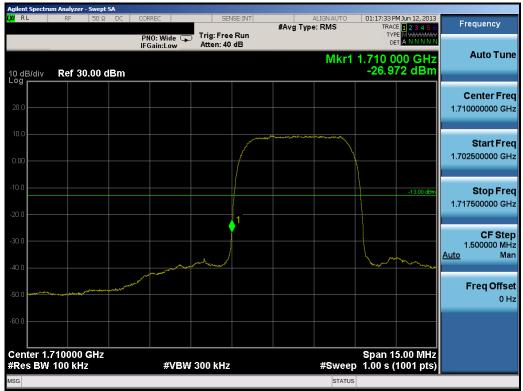
Plot 7-38. Conducted Spurious Plot (AWS WCDMA Mode - Ch. 1312)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | | |
|------------------------------|--|---|---------------------------------|--|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 59 of 72 | | | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 59 01 72 | | | |
| © 2013 PCTEST Engineering La | © 2013 PCTEST Engineering Laboratory, Inc. | | | | | |



| Ag <mark>ilent Spectrum Analyzer - Swept SA</mark> XI RL RF 50Ω DC | CORREC SEN | ISE:INT ALIGN AUT | 01:20:39 PM Jun 12, 2013 | |
|---|---|--|--|---|
| | | #Avg Type: RMS | TRACE 123456 TYPE MWWWW | Frequency |
| | PNO: Fast 🗭 Trig: Free IFGain:Low Atten: 10 | dB | _{det} <u>а n n n n</u> kr1 18.749 5 GHz | Auto Tune |
| 10 dB/div Ref 0.00 dBm | | | -51.31 dBm | |
| -10.0 | | | -13.00 dBm | Center Fred 15.000000000 GH: |
| -20.0 | | | | Start Free 10.000000000 GH |
| -40.0 | | | ↓1 | Stop Free 20.000000000 GH: |
| | ni ny Maria a daga kana ana ang kana da kana da kana da kana ang kana ang kana ang kana ang kana ang kana ang k Maria da pang kana ang | la faite ann a sa a bha an a faite ann a bhann ann an an an ann ann ann ann ann an | Hang al () Anna An Anna () Mar an Anna Anna Anna Anna Anna Anna Anna | CF Step 1.00000000 GH <u>Auto</u> Mar |
| -80.0 | | | | Freq Offse 0 H |
| -90.0 | | | | |
| Start 10.000 GHz #Res BW 1.0 MHz | #VBW 3.0 MHz | Sween | Stop 20.000 GHz 17.3 ms (20001 pts) | |
| | | STA | | |

Plot 7-39. Conducted Spurious Plot (AWS WCDMA Mode - Ch. 1312)



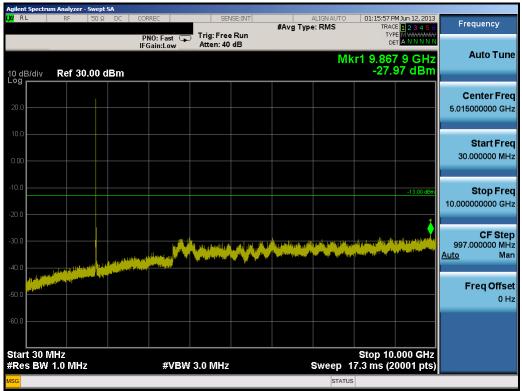
Plot 7-40. Band Edge Plot (AWS WCDMA Mode - Ch. 1312)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 60 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 60 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | · | V 2.9 |



| gilent Spectrum Analyzer - Swept SA | | | | | |
|-------------------------------------|---|--------------------------------|--|---|--|
| XIRL RF 50Ω DC | CORREC | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 01:17:56 PM Jun 12, 2013 TRACE 1 2 3 4 5 6 | Frequency |
| | PNO: Wide 🔸 IFGain:Low | Trig: Free Run Atten: 40 dB | Billow | TRACE 123456 TYPE MWWWW DET A N N N N N | |
| 10 dB/div Ref 30.00 dBm | | | | 1 1.709 000 GHz -16.31 dBm | |
| 20.0 | | | | | Center Fred 1.707000000 GHz |
| 0.00 | | | | | Start Fred 1.705000000 GHz |
| -10.0 | | | | -13.00 c 1 | Stop Fred 1.709000000 GH2 |
| 30.0 | ne station of the state of the | | and the second s | | CF Step 400.000 kH <u>Auto</u> Mar |
| 50.0 | | | | | Freq Offse 0 H |
| -60.0 | | | | Span 4.000 <u>MHz</u> | |
| #Res BW 1.0 MHz | #VBW | 3.0 MHz | #Swee | Span 4.000 MHz p 3.00 s (1001 pts) | |
| ISG | | | STATU | IS | |





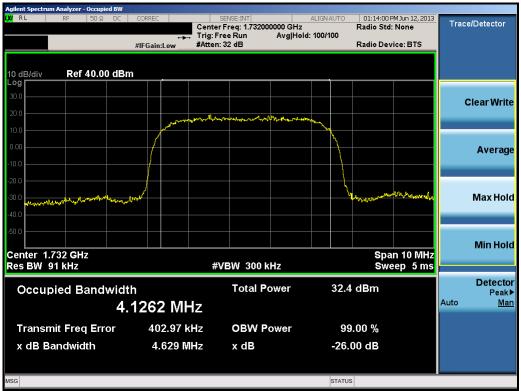
Plot 7-42. Conducted Spurious Plot (AWS WCDMA Mode - Ch. 1412)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 61 of 70 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 61 of 72 |
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| ISG | | | | | | | | STATUS | | | |
|------------|-------------------|--------------------------|---|-------------------------|---------------------------|---------------------------|--|--------------------------|---|--|--------------------------------|
| | t 10.00 s BW 1 | U GHZ .0 MHZ | | #V | BW 3.0 MI | Hz | | Sweep 1 | - stop 20 7.3 ms (2 | .000 GHz 0001 pts) | |
| 1 | 4 10 00 | | | | | | | | Stop 20 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | 0 H |
| 80.0 | | | | | | | | | | | Freq Offse |
| | | | | | | | | | | | Mato Ma |
| | | ر منظم ر مانتشر ر الله ر | ala a faith a start a s | | وجرين فالنقر رجا فر مثقان | القري العرب واللان ويتوجه | ر بنالاطلاط باللار مر بي و الرالاطلاط بالالار مر بي و | . In an hearing at the s | the state of the second second | | 1.000000000 GH |
| | | | والمتأور وروا للمارات | darar ratania | and the second second | والمراجع والمحافظ | and the second state of the second | | TO A REPORT OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPT | and the advanceme | CF Ste |
| 50.0 | | | | | | | | | | 1 | 20.00000000 GH |
| 40.0 | | | | | | | | | | | Stop Fre |
| | | | | | | | | | | | 10.000000000 GH |
| | | | | | | | | | | | Start Fre |
| 20.0 | | | | | | | | | | | |
| | | | | | | | | | | -13.00 dBm | Center Free 15.000000000 GH |
| 0 d _og | B/div | Ref 0.00 | aBm | | | | | | -01. | | |
| | | D - 6 0 00 | -15 | | | | | Mkr | 1 19.56 |) 5 GHz 68 dBm | Auto Tun |
| | | | | PNO: Fast IFGain:Lov | | ree Run : 10 dB | | | TYF | E M WAWAA A N N N N N | |
| KU R | - | RF 5 | OΩ DC | CORREC | | SENSE:INT | #Avg Typ | ALIGNAUTO e: RMS | | M Jun 12, 2013 E <mark>1 2 3 4 5 6</mark> | Frequency |

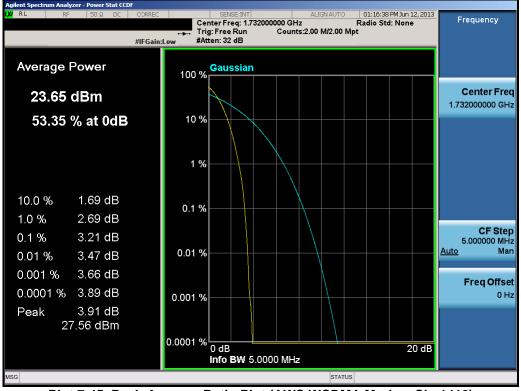
Plot 7-43. Conducted Spurious Plot (AWS WCDMA Mode - Ch. 1412)

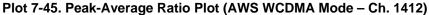


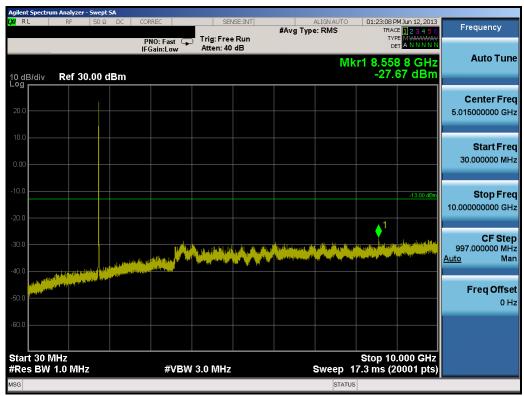
Plot 7-44. Occupied Bandwidth Plot (AWS WCDMA Mode - Ch. 1412)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 62 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 62 01 72 |
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Plot 7-46. Conducted Spurious Plot (AWS WCDMA Mode - Ch. 1862)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 63 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 03 01 72 |
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| Agilent Spectrum Analyzer - Swept SA XI RL RF 50 Ω DC | CORREC SENS | #Avg Type: RMS | 01:23:40 PM Jun 12, 2013 TRACE 1 2 3 4 5 6 TYPE MWWWW | Frequency |
|--|--|---|---|---|
| 10 dB/div Ref 0.00 dBm | PNO: Fast Fill Ing: Free IFGain:Low Atten: 10 d | В | r1 18.706 0 GHz -50.42 dBm | Auto Tune |
| -10.0 | | | -13.00 dBm | Center Free 15.000000000 GH |
| 30.0 | | | | Start Fre 10.000000000 GH |
| -40.0 | | | 1 | Stop Fre 20.000000000 GH |
| | laineann _{an t} arann an tarlann an tarlan | in langu na hili langu kang banang na hang kang kang banang na hang kang banang na hang banang na hang banang Pengang na hang banang kang banang kang banang na hang banang na hang banang na hang banang na hang banang mang Pengang na hang banang bana | g an | CF Step 1.000000000 GH <u>Auto</u> Ma |
| 80.0 | | | | Freq Offse 0 H |
| .90.0 | | | Stop 20.000 GHz | |
| #Res BW 1.0 MHz | #VBW 3.0 MHz | Sweep | 17.3 ms (20001 pts) | |

Plot 7-47. Conducted Spurious Plot (AWS WCDMA Mode - Ch. 1862)



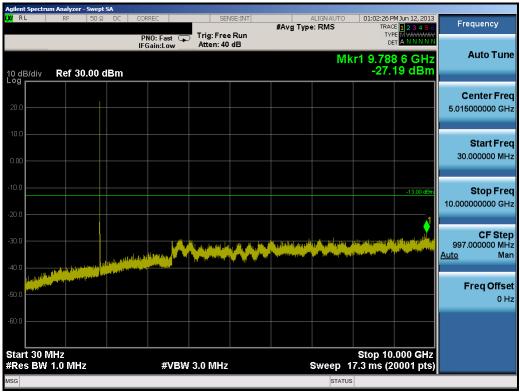
Plot 7-48. Band Edge Plot (AWS WCDMA Mode - Ch. 1862)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 64 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Fage 04 01 72 |
| © 2013 PCTEST Engineering La | aboratory, Inc. | | V 2.9 |



| Agilent Spectrum Analyzer - Swept SA | CODDEC | | 4170114117 | | 10.0010 | |
|--------------------------------------|--|--------------|----------------------------|----------------------------|-----------------------------|-------------------------------|
| XURL RF 50Ω DC | CORREC | SENSE:INT | ALIGNAUT #Avg Type: RMS | | 123456 MWWWWWW ANNNNN | Frequency |
| | PNO: Wide 🔸 IFGain:Low | Atten: 40 dB | | DET | ANNNNN | |
| | | | Mk | r1 1.756 00 | 0 GHz 6 dBm | Auto Tune |
| 10 dB/div Ref 30.00 dBm | | | | -19.90 | вивш | |
| | | | | | | Center Free |
| 20.0 | | | | | | 1.758000000 GH |
| 10.0 | | | | | | |
| | | | | | | Start Fred 1.756000000 GH; |
| 0.00 | | | | | | 1.756000000 GH. |
| -10.0 | | | | | | Oton Eno |
| 1 | | | | | -13.00 dBm | Stop Fred 1.76000000 GH: |
| -20.0 | | | | | | |
| 30.0 | and the second | | | | | CF Step |
| | | | | | | 400.000 kH <u>Auto</u> Mai |
| 40.0 | | | | | | |
| -50.0 | | | | | | Freq Offse |
| | | | | | | 0 H: |
| 60.0 | | | | | | |
| | | | | | | |
| Center 1.758000 GHz | | | | Span 4.0 eep 3.00 s (10 | 00 MHz | |
| #Res BW 1.0 MHz | #VBW | 3.0 MHz | | - | 001 pts) | |
| ISG | | | ST | ATUS | | |

Plot 7-49. 4MHz Span Plot (AWS WCDMA Mode - Ch. 1862)



Plot 7-50. Conducted Spurious Plot (PCS WCDMA Mode - Ch. 9262)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 65 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 65 of 72 |
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| PN0: Fast Trig: Free Run Trace 12.3.4.5.5 Frequency 100 IFGain:Low Atten: 10 dB Mkr1 19.057 5 GHz Auto Tur 100 GE/div Ref 0.00 dBm -52.21 dBm Image: Comparison of the second of the seco | Agilent Spectrum Analyzer - Swept S | | | | - | |
|--|-------------------------------------|---|--|--|--|--|
| PN0: Fast Trig: Free Run Atten: 10 dB Mkr1 19.057 5 GHz -52.21 dBm Auto Tur 100 dB/div Ref 0.00 dBm | <mark>lX/</mark> RL RF 50Ω | DC CORREC | SENSE:INT | ALIGNAUTO | 01:02:56 PM Jun 12, 2013 TRACE 12 3 4 5 6 | Frequency |
| Log Image: Control interview | | IFGain:Low F | | • | | Auto Tune |
| 300 Start Free 400 Start Free 400 Start Free 500 Image: Start Free </td <td>Log</td> <td></td> <td></td> <td></td> <td></td> <td>Center Freq 15.00000000 GHz</td> | Log | | | | | Center Freq 15.00000000 GHz |
| 500 1 1 20.00000000 GHz 500 1 | | | | | | Start Freq 10.000000000 GHz |
| -60.0 -7 | | | | | 1 | Stop Freq 20.000000000 GHz |
| -80 0 -90 0 Start 10.000 GHz Stop 20.000 GHz | | A transmission of the second | h na Antal Alam ya ya ka ƙafa ya ya ana ƙafa ƙasar | g an gan an sharan an gan an gan an a | an a | CF Step 1.000000000 GHz <u>Auto</u> Man |
| Start 10.000 GHz Stop 20.000 GHz | | | | | | Freq Offset 0 Hz |
| | Start 10.000 GHz | #VBW 3. | 0 MHz | Sweep 1 | Stop 20.000 GHz 7.3 ms (20001 pts) | |
| MSG JAlignment Completed | 1 | | | | | |

Plot 7-51. Conducted Spurious Plot (PCS WCDMA Mode - Ch. 9262)



Plot 7-52. Band Edge Plot (PCS WCDMA Mode - Ch. 9262)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|------------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 66 of 72 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 66 01 72 |
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| Agilent Spectrum Analyzer - Swept SA | CORREC | SENSE:INT | | IGNAUTO | 01 00 00 01 | 1Jun 12, 2013 | |
|--|----------|--------------|---------------------------------------|---------|--|-----------------------------|------------------------------------|
| | | ig: Free Run | #Avg Type: | | TRACE | 123456 MWWWWWW ANNNNN | Frequency |
| | | tten: 40 dB | | | | | Auto Tune |
| 10 dB/div Ref 30.00 dBm | | | | Mkr1 | 1.849 0 16.7- | 00 GHz 1 dBm | Auto Tulle |
| Log | | | | | | | Center Free |
| 20.0 | | | | | | | 1.847000000 GH: |
| 10.0 | | | | | | | Otort Frank |
| 0.00 | | | | | | | Start Fred 1.845000000 GH: |
| | | | | | | | |
| -10.0 | | | | | | -13.00 c 1 | Stop Fred 1.849000000 GH |
| -20.0 | | | | | | | 1.84900000 GH |
| -30.0 | | | · · · · · · · · · · · · · · · · · · · | | araan ahad ahaa ahaa ahaa ahaa ahaa ahaa a | | CF Ster 400.000 kH |
| and a contract of the contract | | | | | | | Auto Mai |
| -40.0 | | | | | | | Freq Offse |
| -50.0 | | | | | | | 0 H |
| -60.0 | | | | | | | |
| | | | | | | | |
| Center 1.847000 GHz #Res BW 1.0 MHz | #VBW 3.0 | MHz | | #Sweep | Span 4. 3.00 s <u>(</u> 1 | 000 MHz 001 pts) | |
| NSG | | | | STATUS | | | |

Plot 7-53. 4MHz Span Plot (PCS WCDMA Mode - Ch. 9262)



Plot 7-54. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9400)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|-----------------------------|------------------|---|---------------------------------|
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| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 67 of 72 |
| © 2013 PCTEST Engineering L | aboratory, Inc. | · | V 2.9 |



| Agilent Spectrum Analy | | | | | | |
|-------------------------|--|---|--|--|---|--|
| 🗶 RL RF | 50 Ω DC | CORREC | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 01:00:24 PM Jun 12, 2013 TRACE 1 2 3 4 5 6 | Frequency |
| 10 dB/div Ref | 0.00 dBm | PNO: Fast 🖵 IFGain:Low | Trig: Free Run Atten: 10 dB | Mkr | 1 19.432 5 GHz -51.96 dBm | Auto Tune |
| | | | | | -13.00 dBm | Center Fred 15.000000000 GHz |
| -20.0 | | | | | | Start Freq 10.000000000 GHz |
| -40.0 | | | | | 1 | Stop Fred 20.000000000 GH: |
| .70.0 | A Mahard Maland Kitego Akitego and a sang Ho Mahard Maland Kitego Akitego ang Kitego ang Kitego ang Kitego ang Mahard Mahard Malang ang Kitego an | n Leve, _{el} potes est el 10 filosòpie el 1 potes en 10 de como de la como el 1 potes en 10 de como de como de la como | n et en fallejen propinsjen po klappen po kla Na na | in the second second Second second | | CF Step 1.000000000 GH <u>Auto</u> Mar |
| 80.0 | | | | | | Freq Offse 0 H |
| -90.0 Start 10.000 G | Hz | | | | Stop 20.000 GHz | |
| #Res BW 1.0 N | | #VBW | 3.0 MHz | Sweep 1 | 7.3 ms (20001 pts) | |
| ISG | | | | STATUS | | |

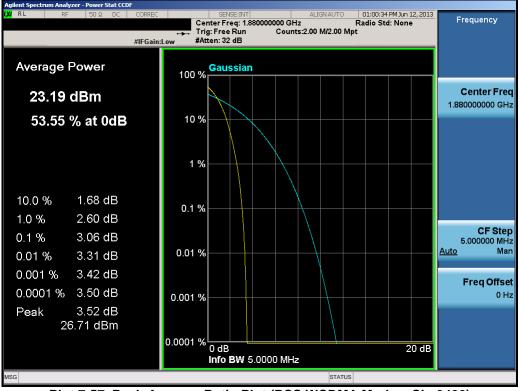
Plot 7-55. Conducted Spurious Plot (PCS WCDMA Mode - Ch. 9400)



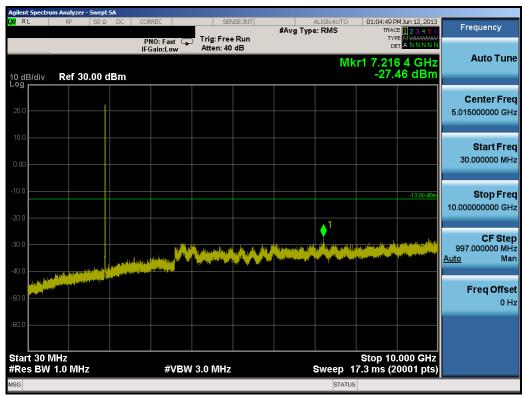
Plot 7-56. Occupied Bandwidth Plot (PCS WCDMA Mode - Ch. 9400)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager |
|-----------------------------|------------------|---|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 60 of 70 |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 68 of 72 |
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Plot 7-58. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9538)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | | |
|--|------------------|---|---------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 69 of 72 | | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 69 01 72 | | |
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| PN0: Fast IFGain.Low Trig: Free Run Atten: 10 dB Mkr1 19.834 5 GHz -52.16 dBm Auto Tune 0 dB/div Ref 0.00 dBm -52.16 dBm -52.16 dBm Center Freq 15.00000000 GHz 20 0 | Agilent Spectrum Analyzer - Swept SA | | | | | |
|--|--------------------------------------|----------|---|------------------------------|--|-----------------|
| Atten: 10 dB Mkr1 19.834 5 GHz -52.16 dBm Certer Freq 10 0 0 dB/div Ref 0.00 dBm -52.16 dBm -52.16 dBm Center Freq 15.0000000 GHz 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | XIRL RF 50Ω DC | CORREC | SENSE:INT | ALIGN AUTO #Avg Type: RMS | 01:05:19 PM Jun 12, 2013 TRACE 123456 | Frequency |
| Control in the interval interval in the interval interval interval in the interval | | | | Mkr | _{det} <u>annnn</u> 1 19.834 5 GHz | Auto Tune |
| 10.0 | 10 dB/div Ref 0.00 dBm | | | | -52.16 aBm | |
| Start Freq Start Start | -10.0 | | | | -13.00 dBm | |
| 50.0 | -30.0 | | | | | |
| 600 Image: Constraint of the straint of the strain | -40.0 | | | | | |
| 80.0 90.0 Start 10.000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.3 ms (20001 pts) | -60.0 | | n Hard Harvey () (yw Marywer y Affar (yw Angar Hard Hard Anwer Harver y Affar y yw Arwer y Affar (yw Arwer Harver y A | | a py production in the state of the second second second as the second sec | 1.000000000 GHz |
| Start 10.000 GHz Stop 20.000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.3 ms (20001 pts) | -80.0 | | | | | |
| | -90.0 | | | | | |
| | Start 10.000 GHz #Res BW 1.0 MHz | #VBW 3.0 | MH ₇ | Sween 1 | Stop 20.000 GHz 7.3 ms (20001 nts) | |
| | MSG | #TBN 5.0 | | | | |

Plot 7-59. Conducted Spurious Plot (PCS WCDMA Mode - Ch. 9538)



Plot 7-60. Band Edge Plot (PCS WCDMA Mode - Ch. 9538)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
|--|------------------|---|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 70 of 70 | |
| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page 70 of 72 | |
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| Agilent Spectrum Analyzer - Swept SA XW RL RF 50 Q DC CORREC SENSE:INT ALIGNAUTO 01:04:25 PMJun 12:2013 | | | | | | |
|---|---------------|---------------------------|--------------------------------|-----------------------------|---|------------------------|
| CAU KL | RF 50Ω DC | | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 01:04:25 PM Jun 12, 2013 TRACE 123456 | Frequency |
| | | PNO: Wide 🔸 IFGain:Low | Trig: Free Run Atten: 40 dB | | TRACE 123456 TYPE M WWWW DET A N N N N N | |
| | | | | Mkr1 | 1.911 000 GHz -16.84 dBm | Auto Tune |
| 10 dB/div Log | Ref 30.00 dBm | 1 | | | -16.84 dBm | |
| | | | | | | Center Freq |
| 20.0 | | | | | | 1.913000000 GHz |
| | | | | | | |
| 10.0 | | | | | | Start Freq |
| 0.00 | | | | | | 1.911000000 GHz |
| | | | | | | |
| -10.0 | | | | | -13.00 dBm | Stop Freq |
| -20.0 | | | | | | 1.915000000 GHz |
| -20.0 | | | | | | |
| -30.0 | | | | | | CF Step 400.000 kHz |
| | | | | | ····· | <u>Auto</u> Man |
| -40.0 | | | | | | |
| -50.0 | | | | | | Freq Offset |
| | | | | | | 0 Hz |
| -60.0 | | | | | | |
| | | | | | | |
| Center 1. | 913000 GHz | <i>"</i> | | | Span 4.000 MHz 5 3.00 s (1001 pts) | |
| #Res BW | 1.0 MHz | #VBW | 3.0 MHz | | | |
| MSG | | | | STATUS | | |

Plot 7-61. 4MHz Span Plot (PCS WCDMA Mode – Ch. 9538)

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
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| 0Y1307231386.PY7 | 6/12 - 7/16/2013 | Portable Handset | Page / 1 01 / 2 | |
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sony Portable Handset FCC ID: PY7PM-0620** complies with all the requirements of Parts 2, 22, 24, 27 of the FCC rules and RSS-132, RSS-133, RSS-139 of the Industry Canada rules.

| FCC ID: PY7PM-0620 | | FCC Pt. 22, 24, 27 GSM / EDGE / WCDMA MEASUREMENT REPORT (CERTIFICATION) | Reviewed by: Quality Manager | |
|--|------------------|---|---------------------------------|--|
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