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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:
04/30 - 05/06/2013
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0Y1304290748.PY7

FCC ID:	**PY7PM-0530**
IC CERTIFICATION NO.:	**4170B-PM0530**
APPLICANT:	**SONY MOBILE COMMUNICATIONS**

Application Type:	Certification
Type Number:	PM-0530-BV
EUT Type:	Portable Handset
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§2 §22(H) §24(E) §27(L)
IC Specification(s):	RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 2
Test Procedure(s):	ANSI/TIA-603-C-2004, KDB 971168
Test Device Serial No.:	*identical prototype* [S/N: 3016, 5028]

Mode	Tx Frequency (MHz)	Emission Designator	ERP/EIRP	
			Max. Power (W)	Max. Power (dBm)
GSM850	824.2 - 848.8	247KGXW	0.790	28.97
EDGE850	824.2 - 848.8	236KG7W	0.313	24.96
GSM1900	1850.2 - 1909.8	244KGXW	1.850	32.67
EDGE1900	1850.2 - 1909.8	242KG7W	0.637	28.04
WCDMA850	826.4 - 846.6	4M15F9W	0.122	20.86
WCDMA1700	1712.4 - 1752.5	4M14F9W	0.594	27.74
WCDMA1900	1852.4 - 1907.6	4M14F9W	0.426	26.29

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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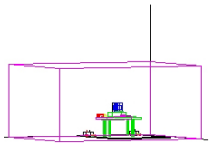


MEASUREMENT REPORT
FCC Part 22, 24, & 27

§2.1033 General Information

APPLICANT:	Sony Mobile Communications
APPLICANT ADDRESS:	Nya Vattentornet
	SE-221 88, Lund, Sweden
TEST SITE:	PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS:	7185 Oakland Mills Road, Columbia, MD 21046 USA
FCC RULE PART(S):	§2 §22(H) §24(E) §27(L)
TYPE NUMBER:	PM-0530-BV
FCC ID:	PY7PM-0530
FCC CLASSIFICATION:	PCS Licensed Transmitter Held to Ear (PCE)
MODE:	GSM/EDGE/WCDMA
FREQUENCY TOLERANCE:	±0.00025 % (2.5 ppm)
Test Device Serial No.:	3016, 5028 ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST:	04/30 - 05/06/2013
TEST REPORT S/N:	0Y1304290748.PY7

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 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.

1.0 INTRODUCTION

1.1 Scope

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

1.2 Testing Facility

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

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility 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.

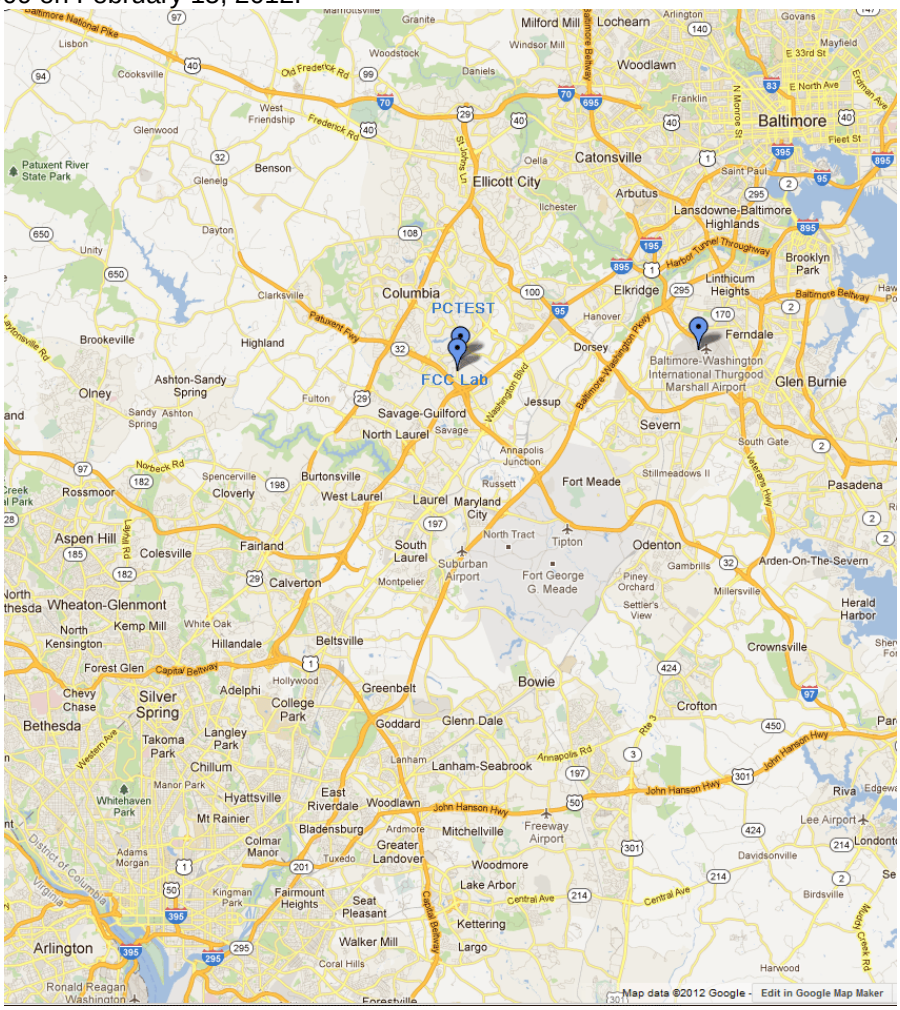


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Sony Portable Handset FCC ID: PY7PM-0530**. 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, 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-0530 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.

3.0 DESCRIPTION OF TESTS

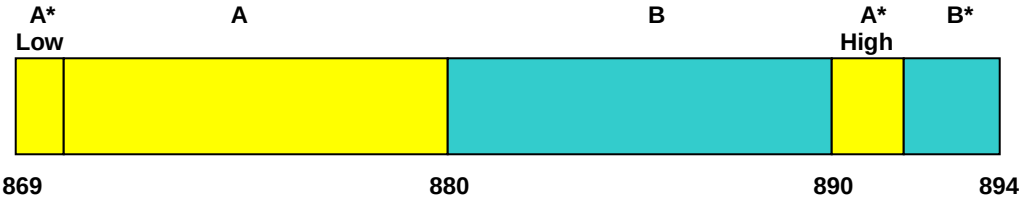
3.1 Evaluation Procedure

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-0530.**

Deviation from Measurement Procedure……..None

3.2 Cellular - Base Frequency Blocks

§22.905



BLOCK 1: 869 – 880 MHz (A* Low + A)

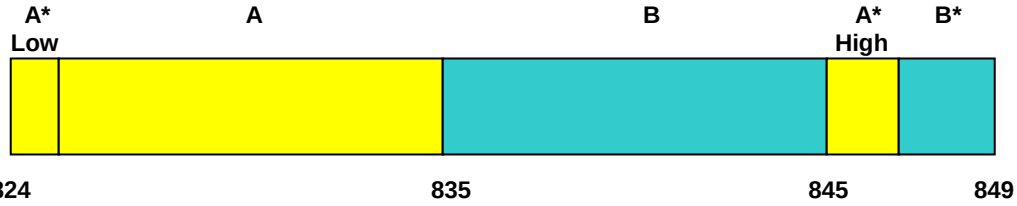
BLOCK 2: 880 – 890 MHz (B)

BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 4: 891.5 – 894 MHz (B*)

3.3 Cellular - Mobile Frequency Blocks

§22.905



BLOCK 1: 824 – 835 MHz (A* Low + A)

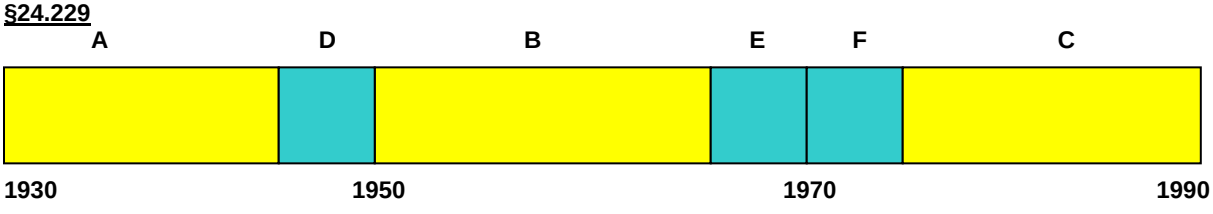
BLOCK 2: 835 – 845 MHz (B)

BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 4: 846.5 – 849 MHz (B*)

3.4 PCS - Base Frequency Blocks

§24.229



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 3: 1950 – 1965 MHz (B)

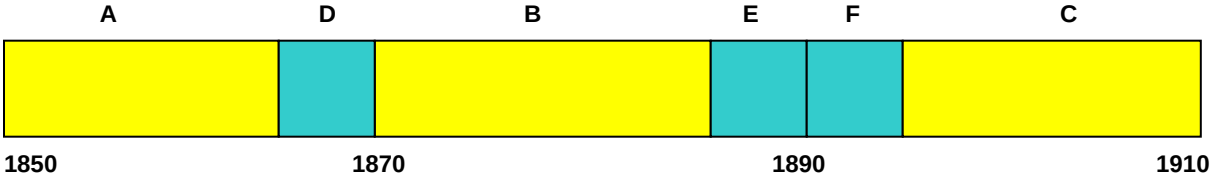
BLOCK 4: 1965 – 1970 MHz (E)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 6: 1975 – 1990 MHz (C)

3.5 PCS - Mobile Frequency Blocks

§24.229



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 3: 1870 – 1885 MHz (B)

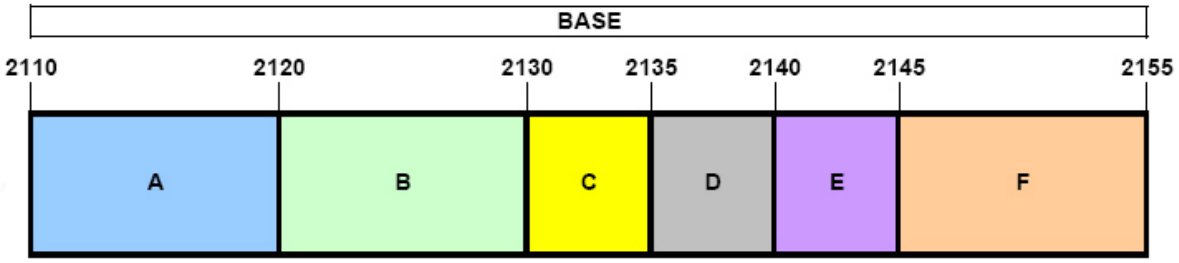
BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 5: 1890 – 1895 MHz (F)

BLOCK 6: 1895 – 1910 MHz (C)

3.6 AWS - Base Frequency Blocks

§27.5(h)

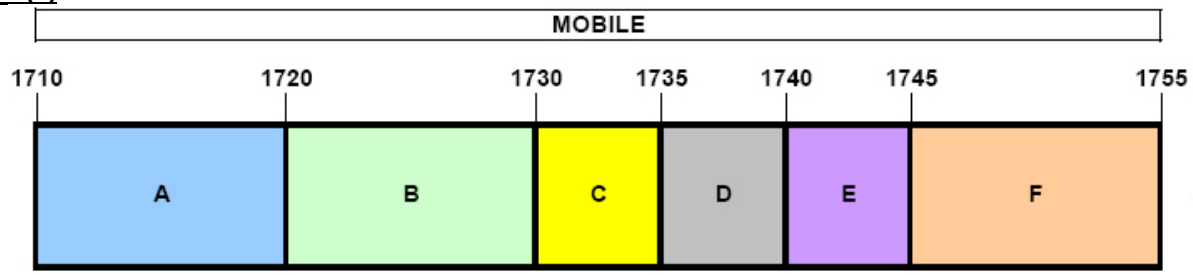


BLOCK 1: 2110 – 2120 MHz (A)
BLOCK 2: 2120 – 2130 MHz (B)
BLOCK 3: 2130 – 2135 MHz (C)

BLOCK 4: 2135 – 2140 MHz (D)
BLOCK 5: 2140 – 2145 MHz (E)
BLOCK 6: 2145 – 2155 MHz (E)

3.7 AWS - Mobile Frequency Blocks

§27.5(h)



BLOCK 1: 1710 – 1720 MHz (A)
BLOCK 2: 1720 – 1730 MHz (B)
BLOCK 3: 1730 – 1735 MHz (C)

BLOCK 4: 1735 – 1740 MHz (D)
BLOCK 5: 1740 – 1745 MHz (E)
BLOCK 6: 1745 – 1755 MHz (F)

3.8 Occupied Bandwidth

§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.

3.9 Spurious and Harmonic Emissions at Antenna Terminal

§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 and 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 ¾" (~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:

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

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

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

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 ±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.

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
-	RE2	Radiated Emissions Cable Set (VHF/UHF)	3/29/2013	Annual	3/29/2014	N/A
Agilent	8447D	Broadband Amplifier	6/8/2012	Annual	6/8/2013	2443A01900
Agilent	E8267C	Vector Signal Generator	10/10/2011	Biennial	10/10/2013	US42340152
Agilent	N9020A	MXA Signal Analyzer	10/9/2012	Annual	10/9/2013	US46470561
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	SSG-4000HP	USB Synthesized Signal Generator	N/A			11208010032
Mini-Circuits	PWR-SENS-4RMS	USB Power Sensor	4/17/2013	Annual	4/17/2014	11210140001
Mini-Circuits	TVA-11-422	RF Power Amp	N/A			QA1303002
Rohde & Schwarz	CMU200	Base Station Simulator	N/A			836536/0005
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	6/26/2012	Annual	6/26/2013	100071
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	5/30/2012	Annual	5/30/2013	100040
Rohde & Schwarz	ESU26	EMI Test Receiver	2/25/2013	Annual	2/25/2014	100342
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	11/14/2011	Biennial	11/14/2013	9105-2404
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/26/2012	Biennial	1/26/2014	A051107

Table 4-1. Test Equipment

Notes:

Signaling equipment used 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. Other equipment showing “N/A” for calibration dates was not used to make direct calibrated measurements.

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.

6.0 TEST RESULTS

6.1 Summary

Company Name: Sony Mobile Communications

FCC ID: PY7PM-0530

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

Mode(s): GSM/EDGE/WCDMA

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)						
2.1049	RSS-Gen(4.6.1) RSS-133(2.3) RSS-139(2.3)	Occupied Bandwidth	N/A	CONDUCTED	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		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		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	RADIATED	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		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.

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	24.04	4.59	V	28.63	0.730	38.45	-9.82
836.60	GSM850	Standard	24.15	4.82	V	**28.97**	**0.790**	38.45	-9.48
848.80	GSM850	Standard	23.77	5.05	V	28.82	0.762	38.45	-9.63
836.60	EDGE850	Standard	20.14	4.82	V	**24.96**	**0.313**	38.45	-13.49

Table 6-2. ERP (Cellular GSM)

Frequency [MHz]	Mode	Battery Type	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	Standard	15.80	4.63	V	20.43	0.111	38.45	-18.02
836.60	WCDMA850	Standard	16.06	4.80	V	**20.86**	**0.122**	38.45	-17.60
846.60	WCDMA850	Standard	15.62	5.01	V	20.63	0.116	38.45	-17.82

Table 6-3. ERP (Cellular WCDMA)

NOTES:

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. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

6.3 AWS Equivalent Isotropic 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	17.85	9.89	H	**27.74**	**0.594**	30.00	-2.26
1732.50	WCDMA1700	Standard	16.32	9.85	H	26.17	0.414	30.00	-3.83
1752.50	WCDMA1700	Standard	17.67	9.81	H	27.48	0.560	30.00	-2.52

Table 6-4. EIRP (AWS WCDMA)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

6.4 PCS Equivalent Isotropic 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]
1850.20	GSM1900	Standard	23.04	9.60	H	32.64	1.836	33.01	-0.37
1880.00	GSM1900	Standard	23.14	9.53	H	**32.67**	**1.850**	33.01	-0.34
1909.80	GSM1900	Standard	23.04	9.47	H	32.51	1.784	33.01	-0.50
1880.00	EDGE1900	Standard	18.51	9.53	H	**28.04**	**0.637**	33.01	-4.97

Table 6-5. 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	16.70	9.59	H	**26.29**	**0.426**	33.01	-6.72
1880.00	WCDMA1900	Standard	16.41	9.53	H	25.94	0.393	33.01	-7.07
1907.60	WCDMA1900	Standard	15.97	9.48	H	25.45	0.350	33.01	-7.56

Table 6-6. EIRP (PCS WCDMA)

NOTES:

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. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

6.5 Cellular GSM Radiated Measurements

§2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	824.20	MHz		
CHANNEL:	128			
MEASURED OUTPUT POWER:	28.63	dBm	=	0.730 W
MODULATION SIGNAL:	GSM (GMSK)			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	41.63	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1648.40	-45.69	2.60	-43.09	V	71.7
2472.60	-45.65	2.90	-42.76	V	71.4
3296.80	-81.79	5.44	-76.35	V	105.0
4121.00	-81.50	7.05	-74.45	V	103.1
4945.20	-80.98	7.86	-73.12	V	101.7

Table 6-7. Radiated Spurious Data (Cellular GSM Mode – Ch. 128)

NOTES:

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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

Cellular GSM Radiated Measurements (Cont'd)

§2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	836.60	MHz		
CHANNEL:	190			
MEASURED OUTPUT POWER:	28.97	dBm	=	0.790 W
MODULATION SIGNAL:	GSM (GMSK)			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	41.97	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1673.20	-41.61	2.34	-39.27	V	68.2
2509.80	-47.61	2.84	-44.77	V	73.7
3346.40	-81.98	5.64	-76.33	V	105.3
4183.00	-81.65	7.15	-74.51	V	103.5
5019.60	-81.01	7.97	-73.04		102.0

Table 6-8. Radiated Spurious Data (Cellular GSM Mode – Ch. 190)

NOTES:

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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

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:	251			
MEASURED OUTPUT POWER:	28.82	dBm	=	0.762 W
MODULATION SIGNAL:	GSM (GMSK)			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	41.82	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1697.60	-41.09	2.08	-39.01	V	67.8
2546.40	-49.15	3.17	-45.98	V	74.8
3395.20	-82.15	5.84	-76.31	V	105.1
4244.00	-81.80	7.24	-74.56	V	103.4
5092.80	-80.78	8.03	-72.76	V	101.6

Table 6-9. Radiated Spurious Data (Cellular GSM Mode – Ch. 251)

NOTES:

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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

6.6 Cellular WCDMA Radiated Measurements

§2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	826.40	MHz		
CHANNEL:	4132			
MEASURED OUTPUT POWER:	20.43	dBm	=	0.111 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	33.43	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1652.80	-51.03	2.55	-48.48	V	68.9
2479.20	-79.80	2.86	-76.93	V	97.4
3305.60	-81.82	5.48	-76.35	V	96.8
4132.00	-81.53	7.06	-74.46	V	94.9
4958.40	-81.00	7.88	-73.12	V	93.6

Table 6-10. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4132)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

Cellular WCDMA Radiated Measurements (Cont'd)

§2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	836.60	MHz		
CHANNEL:	4183			
MEASURED OUTPUT POWER:	20.86	dBm	=	0.122 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	33.86	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1673.20	-53.43	2.37	-51.06	V	71.9
2509.80	-79.73	2.80	-76.93	V	97.8
3346.40	-81.96	5.62	-76.35	V	97.2
4183.00	-81.60	7.13	-74.46	V	95.3
5019.60	-81.07	7.96	-73.12	V	94.0

Table 6-11. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4183)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

Cellular WCDMA Radiated Measurements (Cont'd)

§2.1053 §22.917(a) RSS-132(4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	846.60	MHz		
CHANNEL:	4233			
MEASURED OUTPUT POWER:	20.63	dBm	=	0.116 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	33.63	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
1693.20	-52.17	2.13	-50.04	V	70.7
2539.80	-80.05	3.11	-76.93	V	97.6
3386.40	-82.15	5.80	-76.35	V	97.0
4233.00	-81.69	7.22	-74.46	V	95.1
5079.60	-81.13	8.01	-73.12	V	93.7

Table 6-12. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4233)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

6.7 AWS WCDMA Radiated Measurements

§2.1053 §27.53(h) RSS-139(6.5.2)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	1712.40	MHz		
CHANNEL:	1312			
MEASURED OUTPUT POWER:	17.85	dBm	=	0.061 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	30.85	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3424.80	-53.69	8.11	-45.58	H	63.4
5137.20	-84.14	10.21	-73.93	H	91.8
6849.60	-82.62	11.32	-71.30	H	89.2
8562.00	-82.12	13.03	-69.09	H	86.9
10274.40	-79.02	13.02	-66.00	H	83.9

Table 6-13. Radiated Spurious Data (AWS WCDMA Mode – Ch. 9262)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

AWS WCDMA Radiated Measurements (Cont'd)

§2.1053 §27.53(h) RSS-139(6.5.2)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	1732.50	MHz		
CHANNEL:	1412			
MEASURED OUTPUT POWER:	16.32	dBm	=	0.043 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	29.32	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3465.00	-50.80	8.26	-42.54	H	58.9
5197.50	-84.19	10.26	-73.93	H	90.3
6930.00	-82.72	11.42	-71.30	H	87.6
8662.50	-82.16	13.07	-69.09	H	85.4
10395.00	-79.12	13.12	-66.00	H	82.3

Table 6-14. Radiated Spurious Data (AWS WCDMA Mode – Ch. 9400)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

AWS WCDMA Radiated Measurements (Cont'd)

§2.1053 §27.53(h) RSS-139(6.5.2)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	1752.50	MHz		
CHANNEL:	1862			
MEASURED OUTPUT POWER:	17.67	dBm	=	0.058 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	30.67	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3505.00	-53.17	8.40	-44.77	H	62.4
5257.50	-84.24	10.31	-73.93	H	91.6
7010.00	-82.81	11.51	-71.30	H	89.0
8762.50	-82.20	13.11	-69.09	H	86.8
10515.00	-79.20	13.20	-66.00	H	83.7

Table 6-15. Radiated Spurious Data (AWS WCDMA Mode – Ch. 9538)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

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			
MEASURED OUTPUT POWER:	32.64	dBm	=	1.836 W
MODULATION SIGNAL:	GSM (GMSK)			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	45.64	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3700.40	-54.14	8.40	-45.74	H	78.4
5550.60	-55.86	10.62	-45.24	H	77.9
7400.80	-82.17	11.82	-70.35	H	103.0
9251.00	-81.58	13.30	-68.28	H	100.9
11101.20	-78.19	13.50	-64.69	H	97.3

Table 6-16. Radiated Spurious Data (PCS GSM Mode – Ch. 512)

NOTES:

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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

PCS GSM Radiated Measurements (Cont'd)

§2.1053 §24.238(a) RSS-133(6.5.2)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	1880.00	MHz		
CHANNEL:	661			
MEASURED OUTPUT POWER:	32.67	dBm	=	1.850 W
MODULATION SIGNAL:	GSM (GMSK)			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	45.67	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-48.11	8.42	-39.68	H	72.4
5640.00	-84.10	10.66	-73.45	H	106.1
7520.00	-82.04	11.92	-70.11	H	102.8
9400.00	-81.16	13.24	-67.92	H	100.6
11280.00	-77.91	13.49	-64.42	H	97.1

Table 6-17. Radiated Spurious Data (PCS GSM Mode – Ch. 661)

NOTES:

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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

PCS GSM Radiated Measurements (Cont'd)

§2.1053 §24.238(a) RSS-133(6.5.2)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	1909.80	MHz		
CHANNEL:	810			
MEASURED OUTPUT POWER:	32.51	dBm	=	1.784 W
MODULATION SIGNAL:	GSM (GMSK)			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	45.51	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3819.60	-49.46	8.57	-40.89	H	73.4
5729.40	-84.04	10.69	-73.35	H	105.9
7639.20	-82.04	12.07	-69.97	H	102.5
9549.00	-80.84	13.20	-67.64	H	100.1
11458.80	-77.84	13.42	-64.43	H	96.9

Table 6-18. Radiated Spurious Data (PCS GSM Mode – Ch. 810)

NOTES:

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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

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:	9262			
MEASURED OUTPUT POWER:	26.29	dBm	=	0.426 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	39.29	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3704.80	-48.87	8.40	-40.47	H	66.8
5557.20	-82.02	10.62	-71.39	H	97.7
7409.60	-80.01	11.83	-68.19	H	94.5
9262.00	-79.40	13.30	-66.10	H	92.4
11114.40	-76.02	13.50	-62.52	H	88.8

Table 6-19. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

PCS WCDMA Radiated Measurements (Cont'd)

§2.1053 §24.238(a) RSS-133(6.5.2)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	1880.00	MHz		
CHANNEL:	9400			
MEASURED OUTPUT POWER:	25.94	dBm	=	0.393 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	38.94	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-52.79	8.42	-44.37	H	70.3
5640.00	-82.05	10.66	-71.39	H	97.3
7520.00	-80.11	11.92	-68.19	H	94.1
9400.00	-79.34	13.24	-66.10	H	92.0
11280.00	-76.01	13.49	-62.52	H	88.5

Table 6-20. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

PCS WCDMA Radiated Measurements (Cont'd)

§2.1053 §24.238(a) RSS-133(6.5.2)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY:	1907.60	MHz		
CHANNEL:	9538			
MEASURED OUTPUT POWER:	25.45	dBm	=	0.350 W
MODULATION SIGNAL:	WCDMA			
DISTANCE:	3	meters		
LIMIT:	43 + 10 $\log_{10}$ (W) =	38.45	dBc	

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	(dBc)
3815.20	-51.19	8.56	-42.63	H	68.1
5722.80	-82.08	10.69	-71.39	H	96.8
7630.40	-80.24	12.06	-68.19	H	93.6
9538.00	-79.30	13.20	-66.10	H	91.5
11445.60	-75.94	13.42	-62.52	H	88.0

Table 6-21. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

NOTES:

1) This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA, and GSM/GPRS/EDGE capabilities. For WCDMA and HSUPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2kbps with HSDPA inactive 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 test configuration was found in the EUT in the V position for cellular band operation and the H position for AWS and PCS band operation. The data reported in the table above was measured in this test setup.

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)	836,599,988	-12	-0.0000014
100 %		- 30	836,599,991	-9	-0.0000011
100 %		- 20	836,599,985	-15	-0.0000018
100 %		- 10	836,600,010	10	0.0000012
100 %		0	836,599,989	-11	-0.0000013
100 %		+ 10	836,599,987	-13	-0.0000016
100 %		+ 20	836,599,991	-9	-0.0000011
100 %		+ 30	836,600,010	10	0.0000012
100 %		+ 40	836,599,993	-7	-0.0000008
100 %		+ 50	836,600,004	4	0.0000005
115 %	4.37	+ 20	836,599,992	-8	-0.0000010
BATT. ENDPOINT	3.41	+ 20	836,599,999	-1	-0.0000001

Table 6-22. Frequency Stability Data (Cellular GSM Mode – Ch. 190)

Cellular GSM Frequency Stability Measurements (Cont'd)

§2.1055 §22.355 RSS-132(4.3)

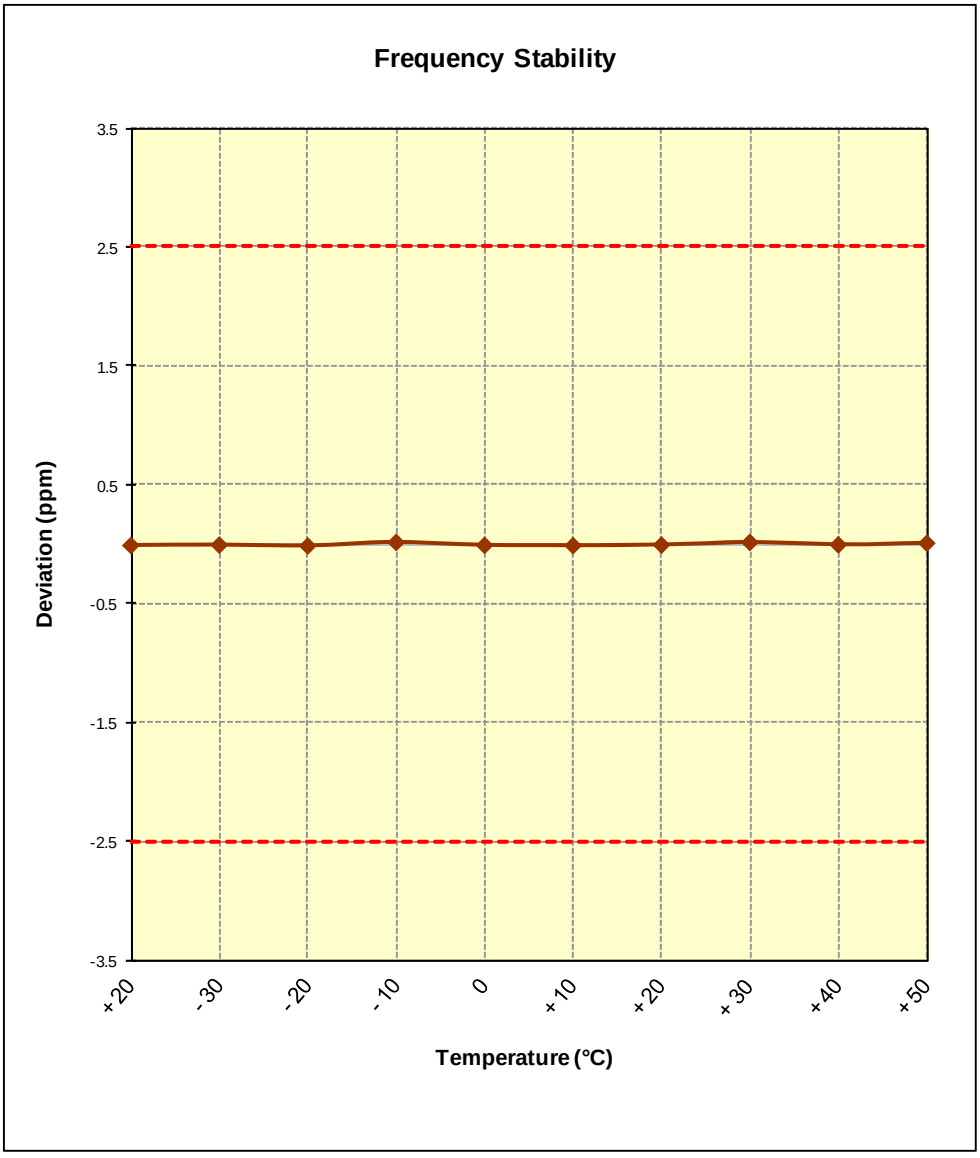


Figure 6-1. Frequency Stability Graph (Cellular GSM Mode – Ch. 190)

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)	836,599,986	-14	-0.0000017
100 %		- 30	836,599,992	-8	-0.0000010
100 %		- 20	836,600,005	5	0.0000006
100 %		- 10	836,599,985	-15	-0.0000018
100 %		0	836,599,994	-6	-0.0000007
100 %		+ 10	836,599,988	-12	-0.0000014
100 %		+ 20	836,599,993	-7	-0.0000008
100 %		+ 30	836,599,999	-1	-0.0000001
100 %		+ 40	836,600,003	3	0.0000004
100 %		+ 50	836,599,994	-6	-0.0000007
115 %	4.37	+ 20	836,599,989	-11	-0.0000013
BATT. ENDPOINT	3.41	+ 20	836,599,998	-2	-0.0000002

Table 6-23. Frequency Stability Data (Cellular WCDMA Mode – Ch. 4183)

Cellular WCDMA Frequency Stability Measurements (Cont'd)

§2.1055 §22.355 RSS-132(4.3)

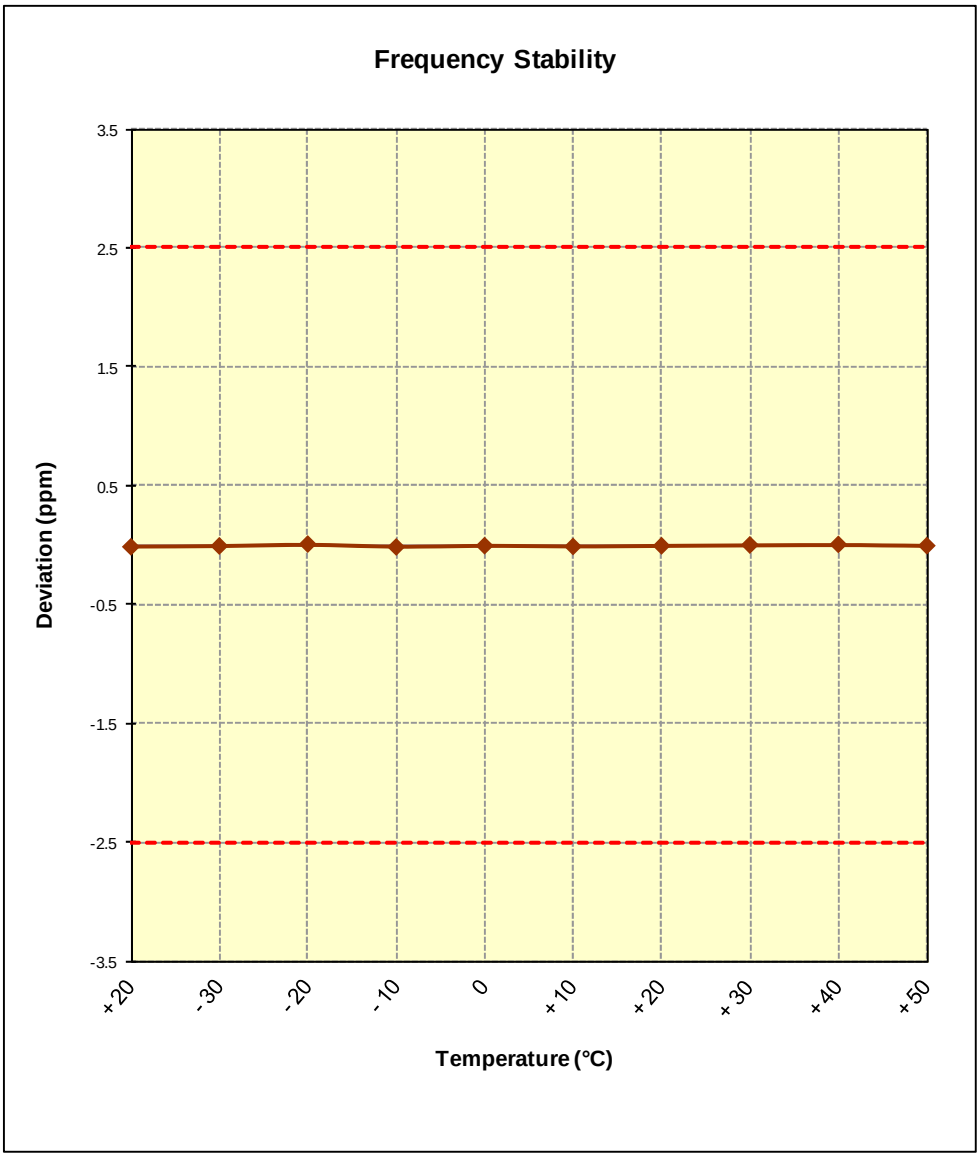


Figure 6-2. Frequency Stability Graph (Cellular WCDMA Mode – Ch. 4183)

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)	1,732,500,001	1	0.0000001
100 %		- 30	1,732,500,005	5	0.0000003
100 %		- 20	1,732,499,997	-3	-0.0000002
100 %		- 10	1,732,499,994	-6	-0.0000003
100 %		0	1,732,499,987	-13	-0.0000008
100 %		+ 10	1,732,499,998	-2	-0.0000001
100 %		+ 20	1,732,499,993	-7	-0.0000004
100 %		+ 30	1,732,500,005	5	0.0000003
100 %		+ 40	1,732,499,996	-4	-0.0000002
100 %		+ 50	1,732,500,012	12	0.0000007
115 %	4.37	+ 20	1,732,500,005	5	0.0000003
BATT. ENDPOINT	3.41	+ 20	1,732,499,989	-11	-0.0000006

Table 6-24. 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 in-band 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.

AWS WCDMA Frequency Stability Measurements (Cont'd)

§2.1055 §27.54 RSS-139(6.3)

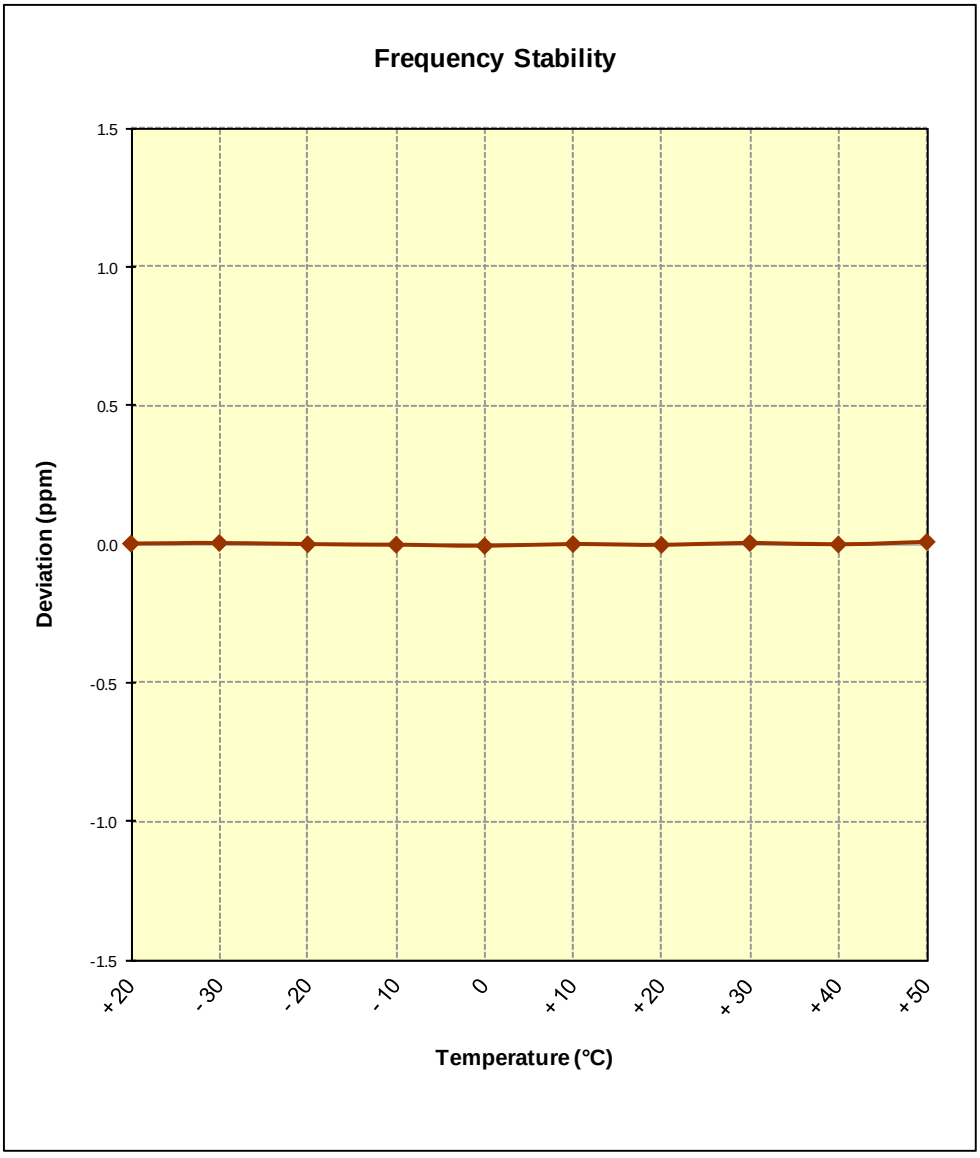


Figure 6-3. Frequency Stability Graph (AWS WCDMA Mode – Ch. 1413)

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)	1,880,000,007	7	0.0000004
100 %		- 30	1,880,000,002	2	0.0000001
100 %		- 20	1,879,999,996	-4	-0.0000002
100 %		- 10	1,879,999,992	-8	-0.0000004
100 %		0	1,880,000,003	3	0.0000002
100 %		+ 10	1,879,999,987	-13	-0.0000007
100 %		+ 20	1,879,999,985	-15	-0.0000008
100 %		+ 30	1,880,000,011	11	0.0000006
100 %		+ 40	1,880,000,004	4	0.0000002
100 %		+ 50	1,879,999,992	-8	-0.0000004
115 %	4.37	+ 20	1,880,000,010	10	0.0000005
BATT. ENDPOINT	3.41	+ 20	1,879,999,997	-3	-0.0000002

Table 6-25. 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 in-band 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.

PCS GSM Frequency Stability Measurements (Cont'd)

§2.1055 §24.235 RSS-139(6.3)

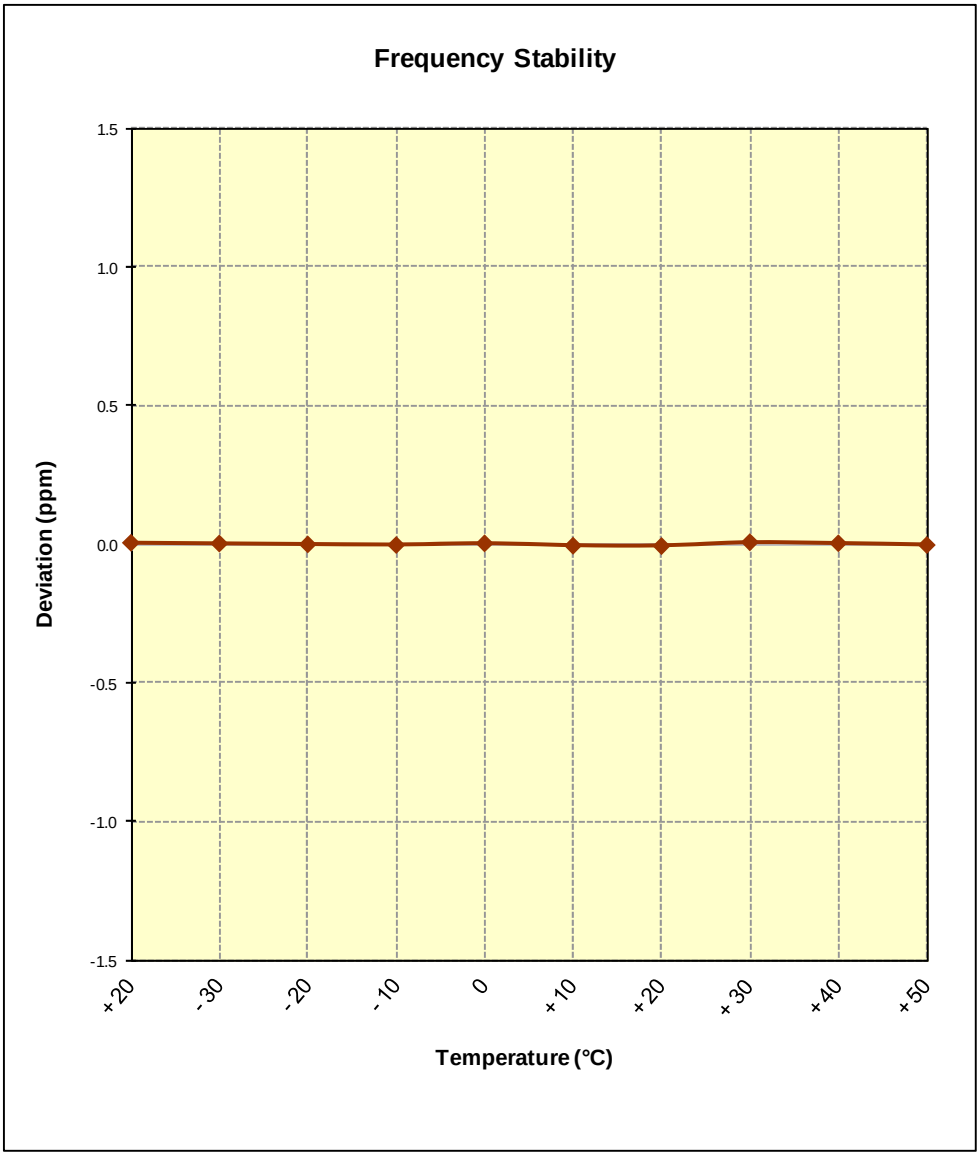


Figure 6-4. Frequency Stability Graph (PCS GSM Mode – Ch. 661)

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: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	1,880,000,003	3	0.0000002
100 %		- 30	1,879,999,988	-12	-0.0000006
100 %		- 20	1,880,000,002	2	0.0000001
100 %		- 10	1,879,999,990	-10	-0.0000005
100 %		0	1,879,999,993	-7	-0.0000004
100 %		+ 10	1,880,000,012	12	0.0000006
100 %		+ 20	1,880,000,008	8	0.0000004
100 %		+ 30	1,879,999,987	-13	-0.0000007
100 %		+ 40	1,880,000,015	15	0.0000008
100 %		+ 50	1,879,999,993	-7	-0.0000004
115 %	4.37	+ 20	1,879,999,998	-2	-0.0000001
BATT. ENDPOINT	3.41	+ 20	1,879,999,995	-5	-0.0000003

Table 6-26. 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 in-band 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.

PCS WCDMA Frequency Stability Measurements (Cont'd)

§2.1055 §24.235 RSS-139(6.3)

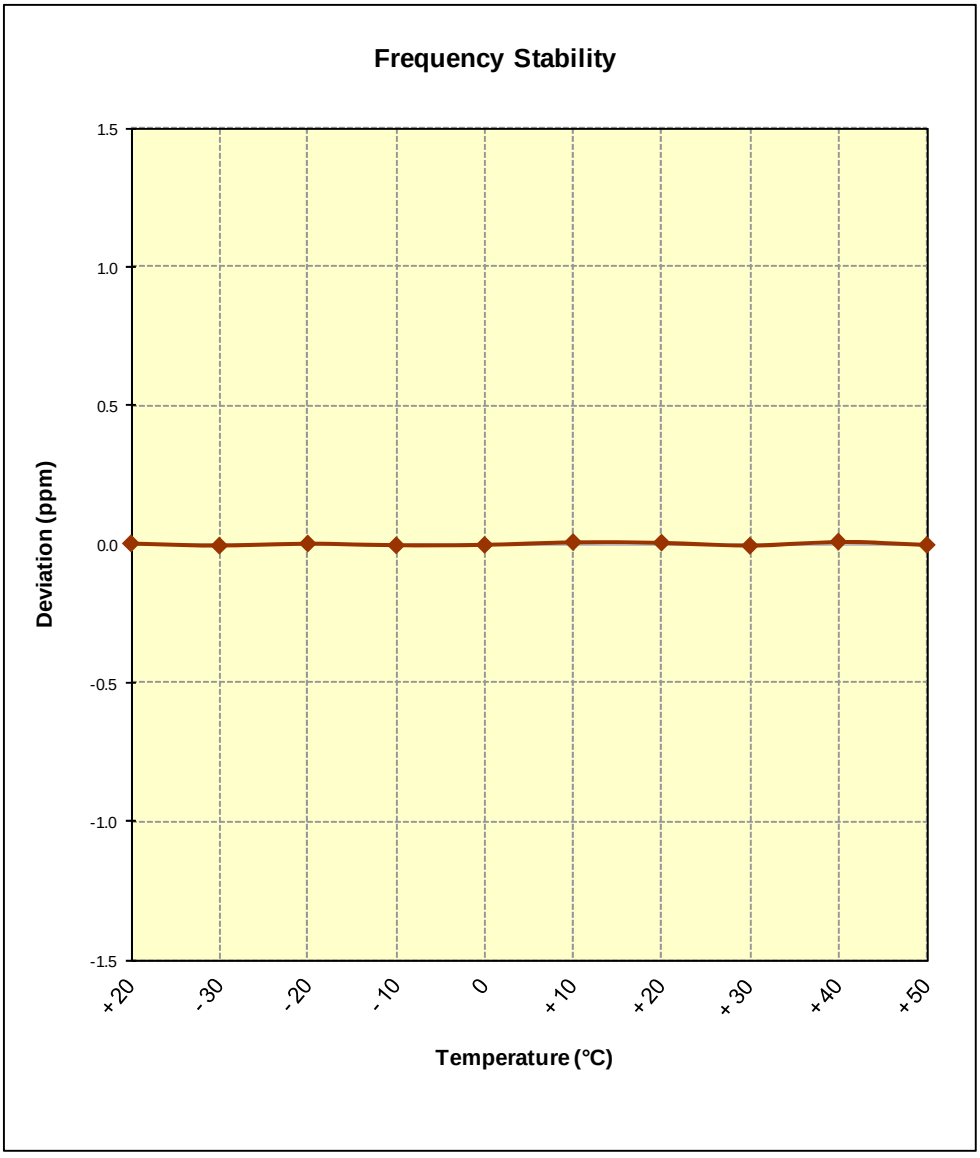
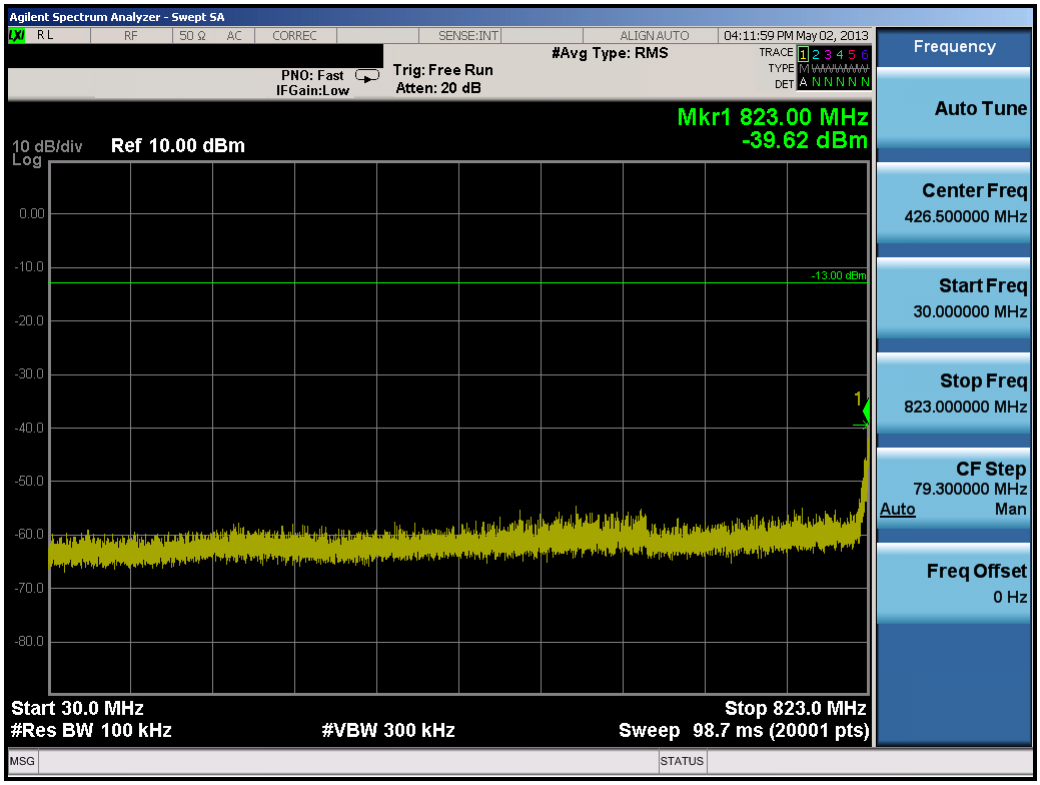
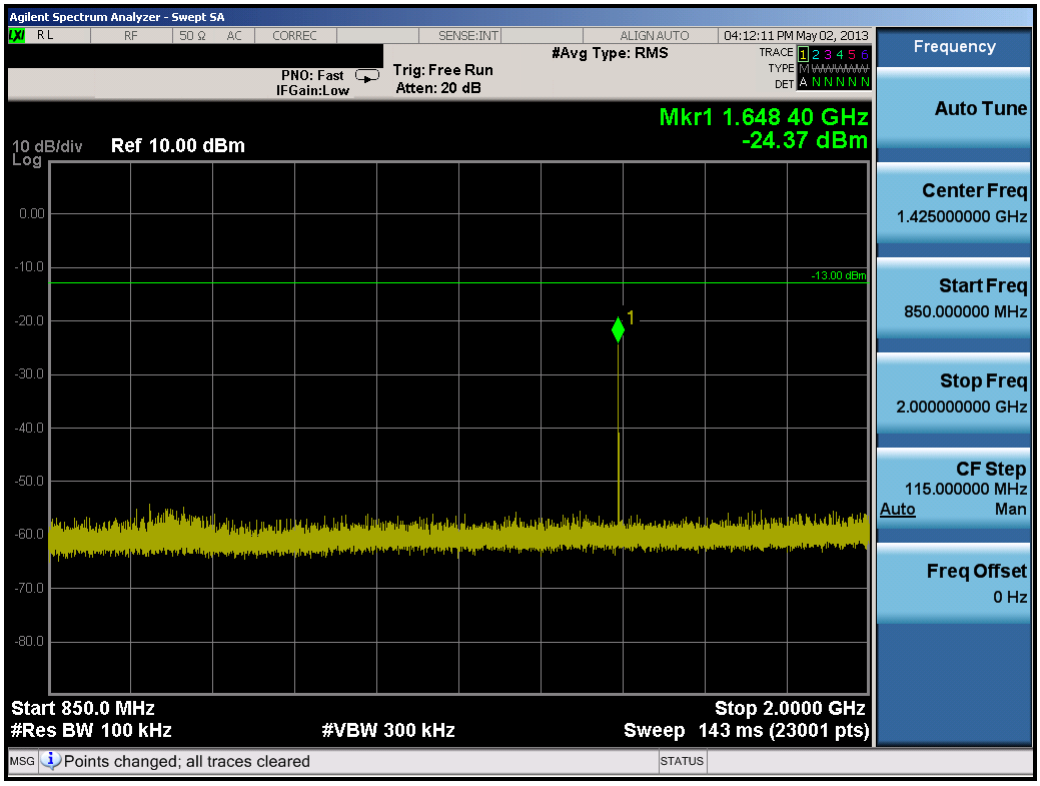


Figure 6-5. Frequency Stability Graph (PCS WCDMA Mode – Ch. 9400)

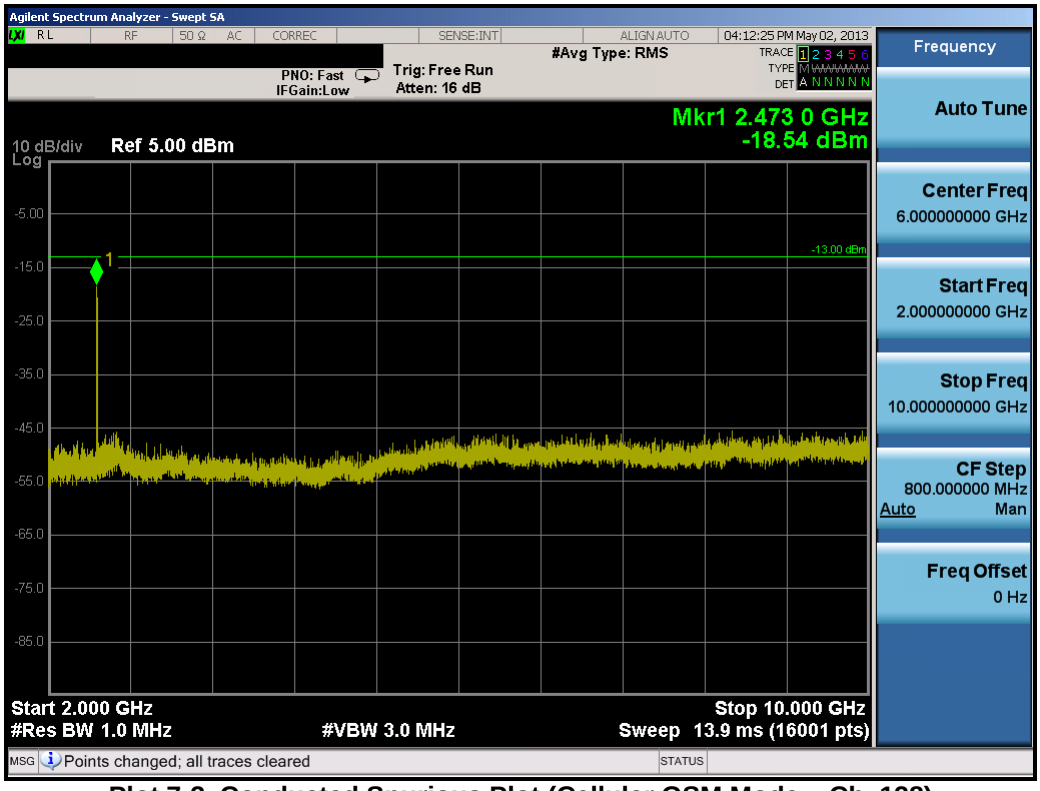
7.0 PLOTS OF EMISSIONS



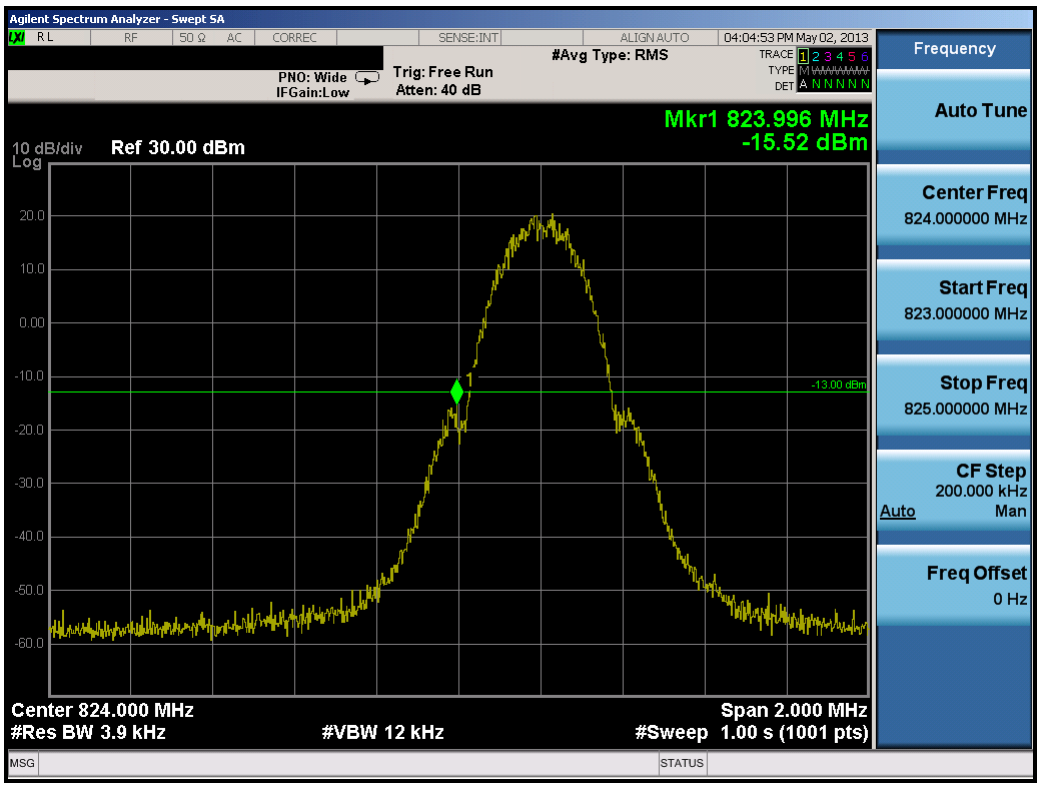
Plot 7-1. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)



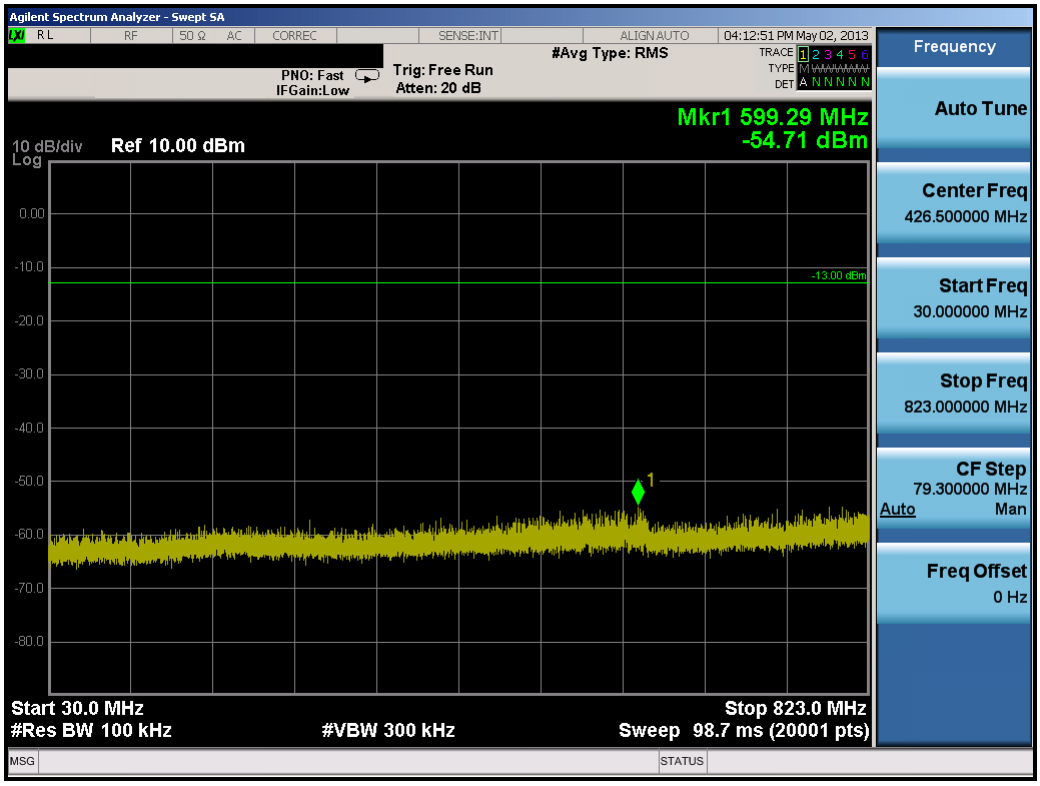
Plot 7-2. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)



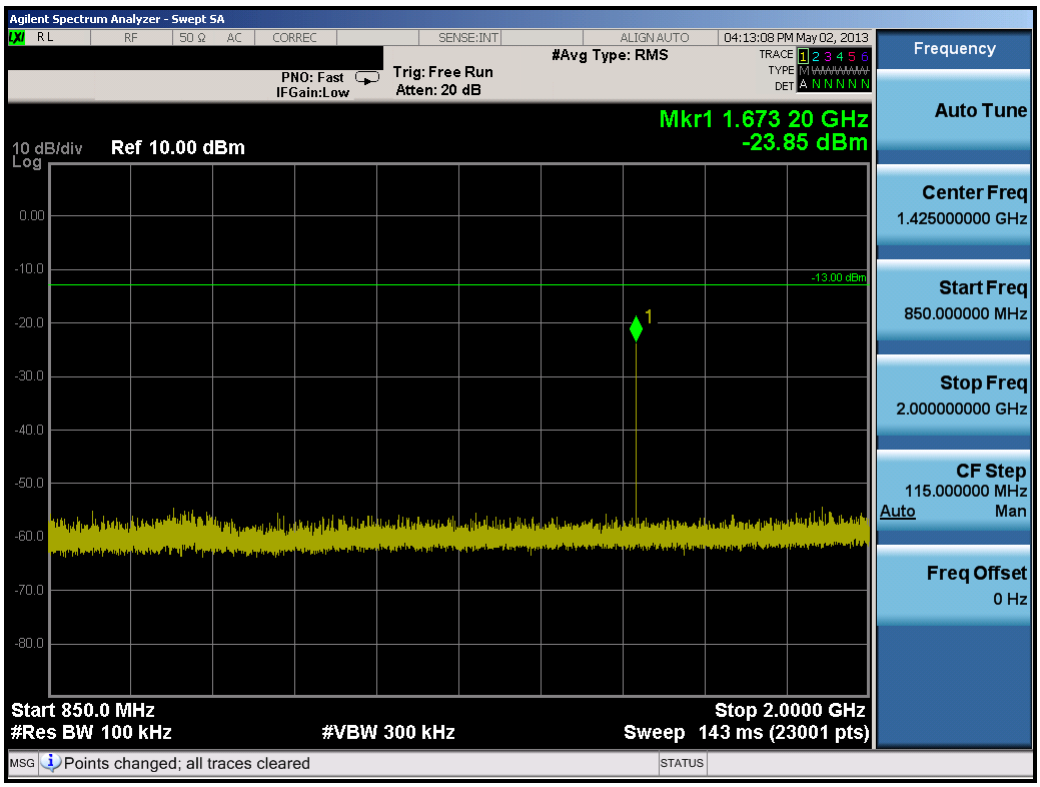
Plot 7-3. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)



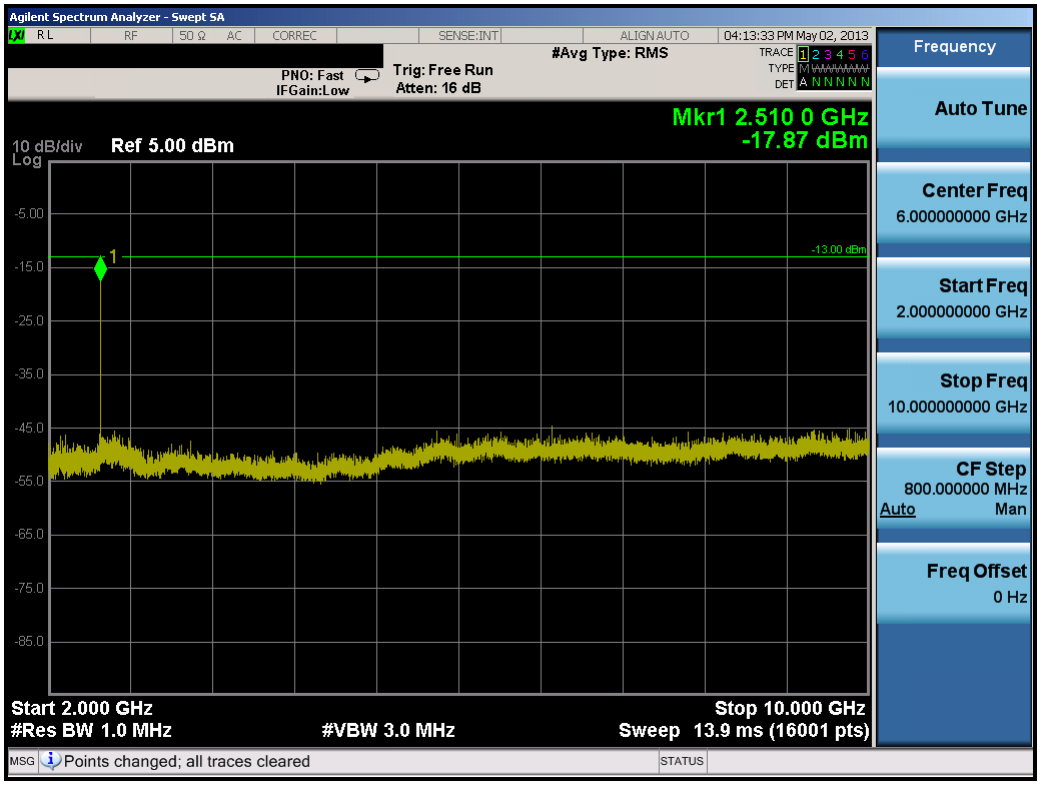
Plot 7-4. Band Edge Plot (Cellular GSM Mode – Ch. 128)



Plot 7-5. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

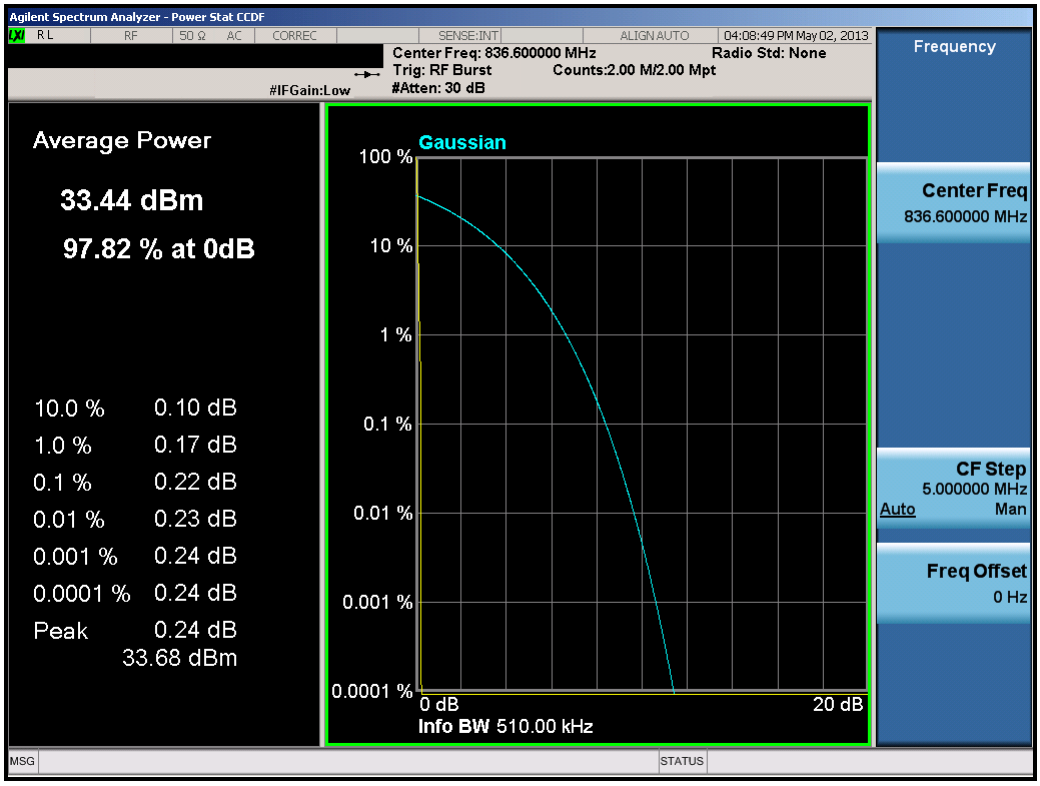


Plot 7-6. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

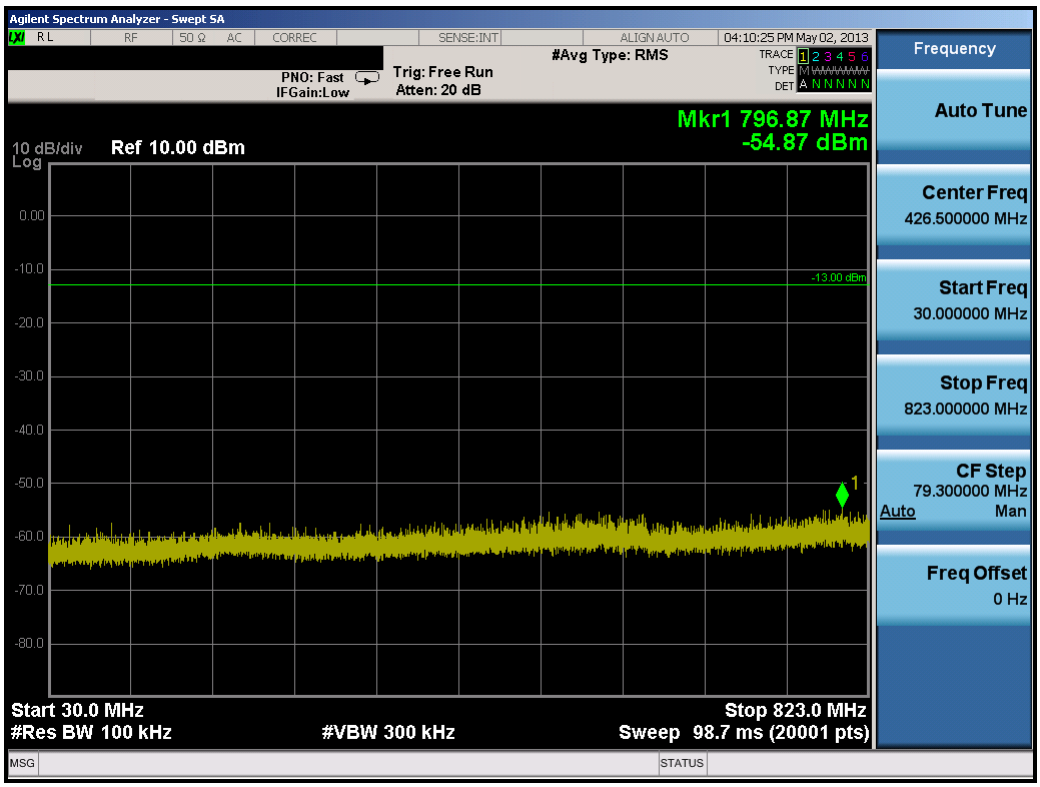


Plot 7-7. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

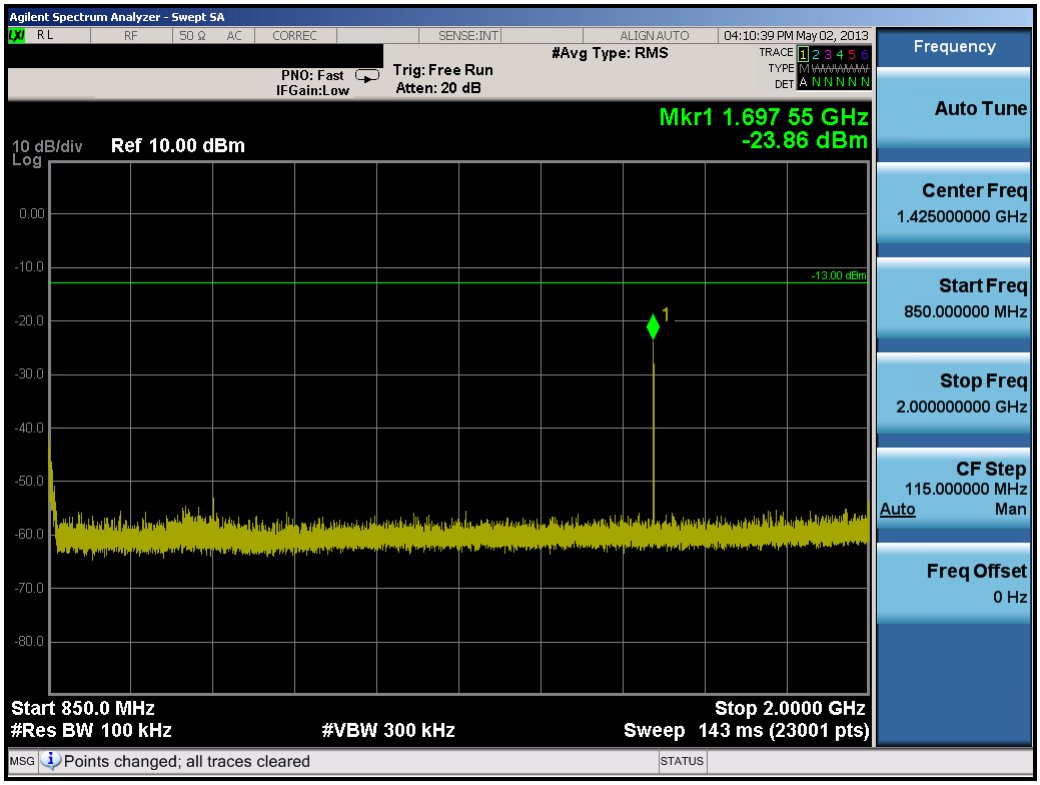
Plot 7-8. Occupied Bandwidth Plot (Cellular GSM Mode – Ch. 190)



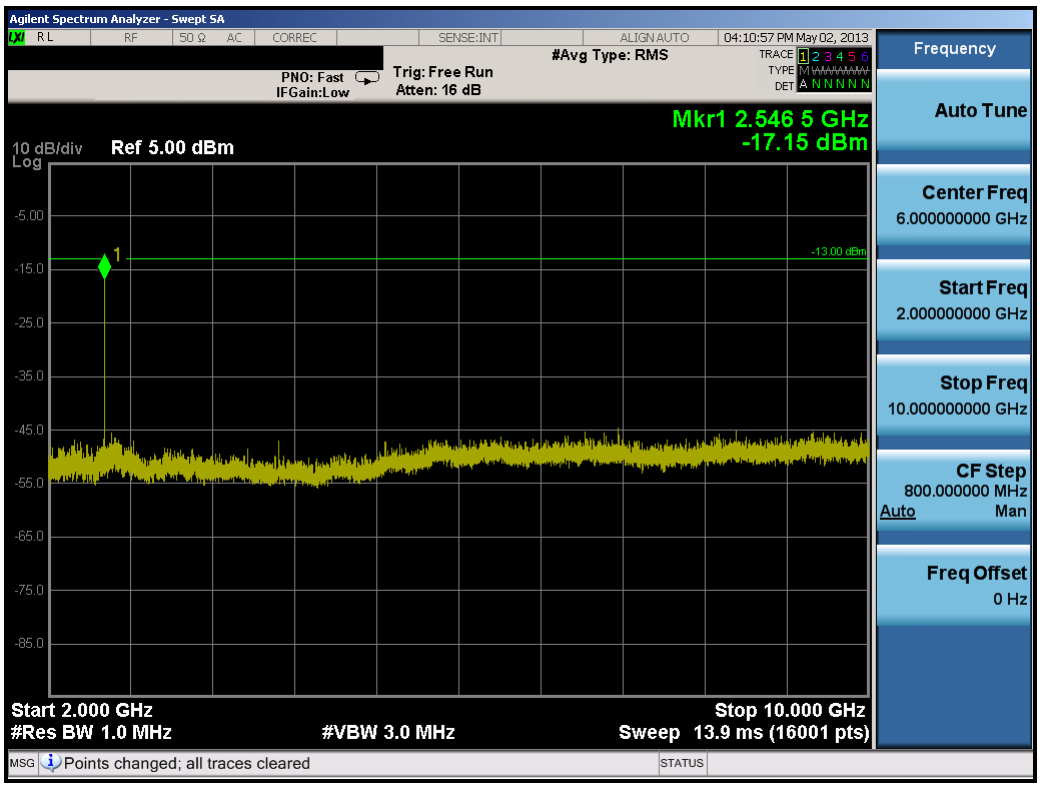
Plot 7-9. Peak-Average Ratio Plot (Cellular GSM Mode – Ch. 190)



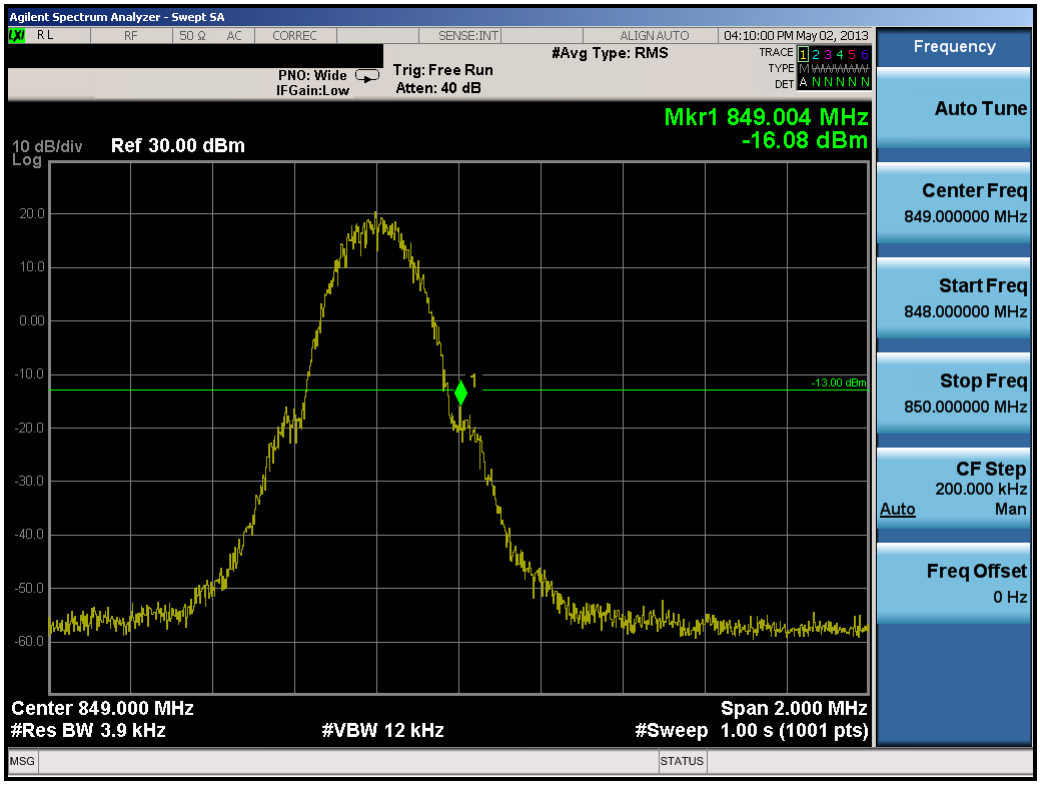
Plot 7-10. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)



Plot 7-11. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

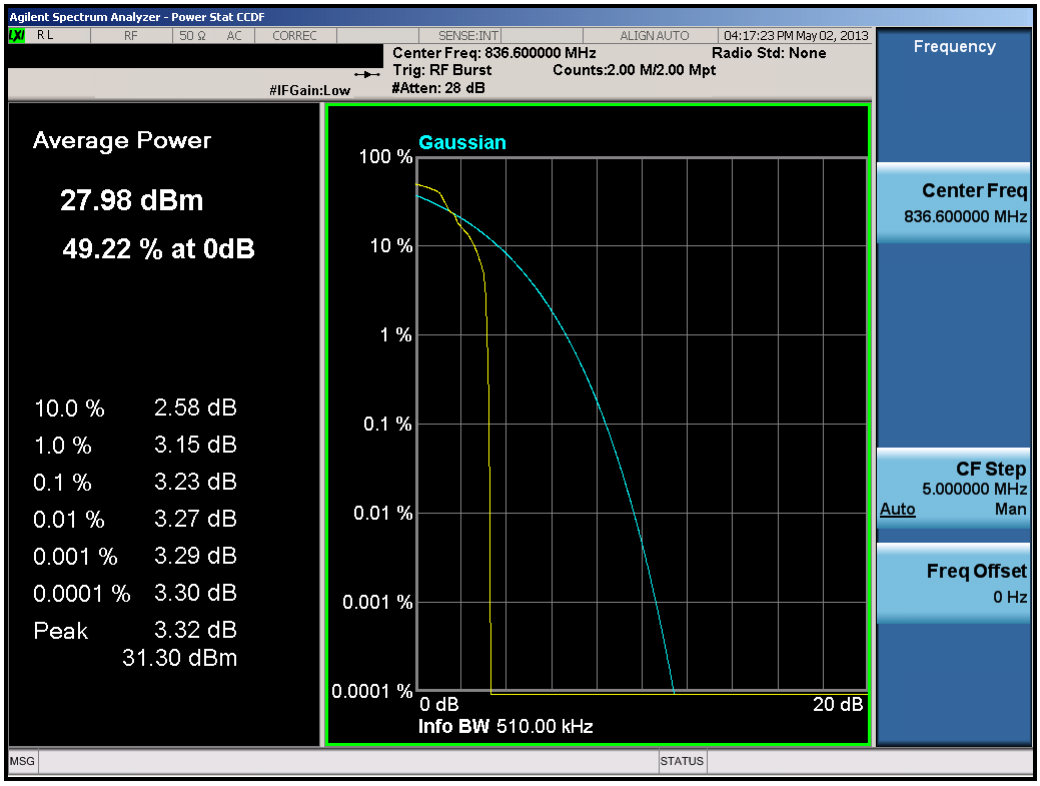


Plot 7-12. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

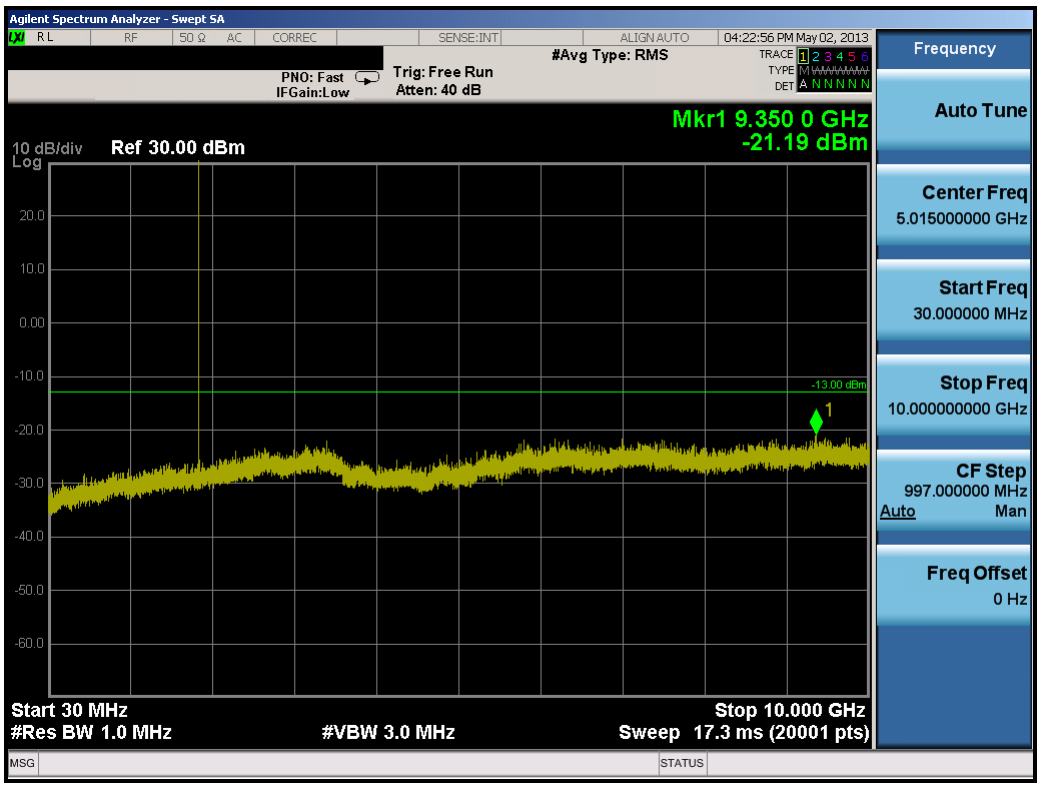


Plot 7-13. Band Edge Plot (Cellular GSM Mode – Ch. 251)

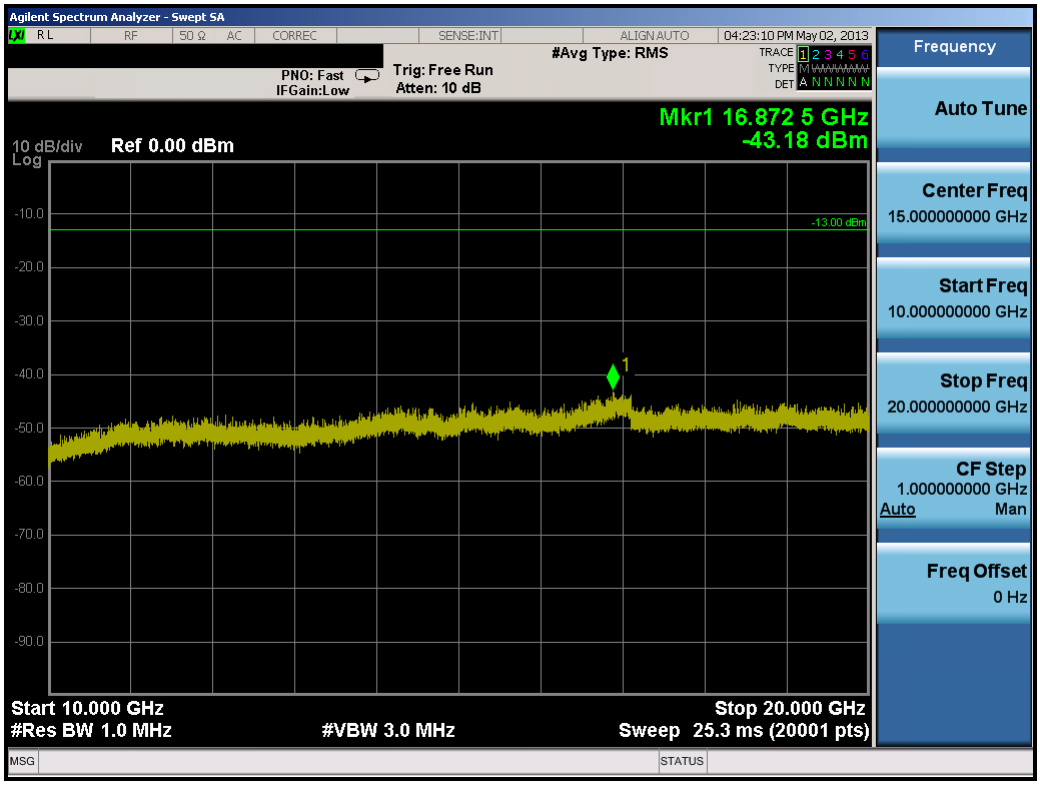
Plot 7-14. Occupied Bandwidth Plot (EDGE850 Mode – Ch. 190)



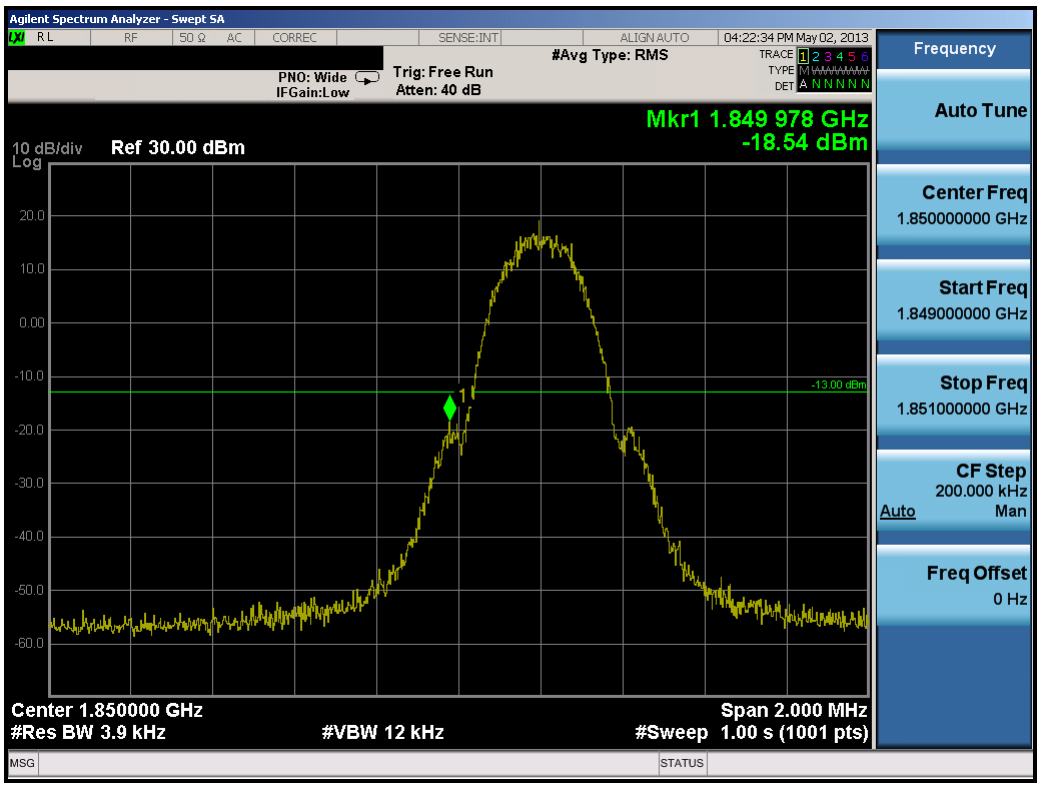
Plot 7-15. Peak-Average Ratio Plot (EDGE850 Mode – Ch. 190)



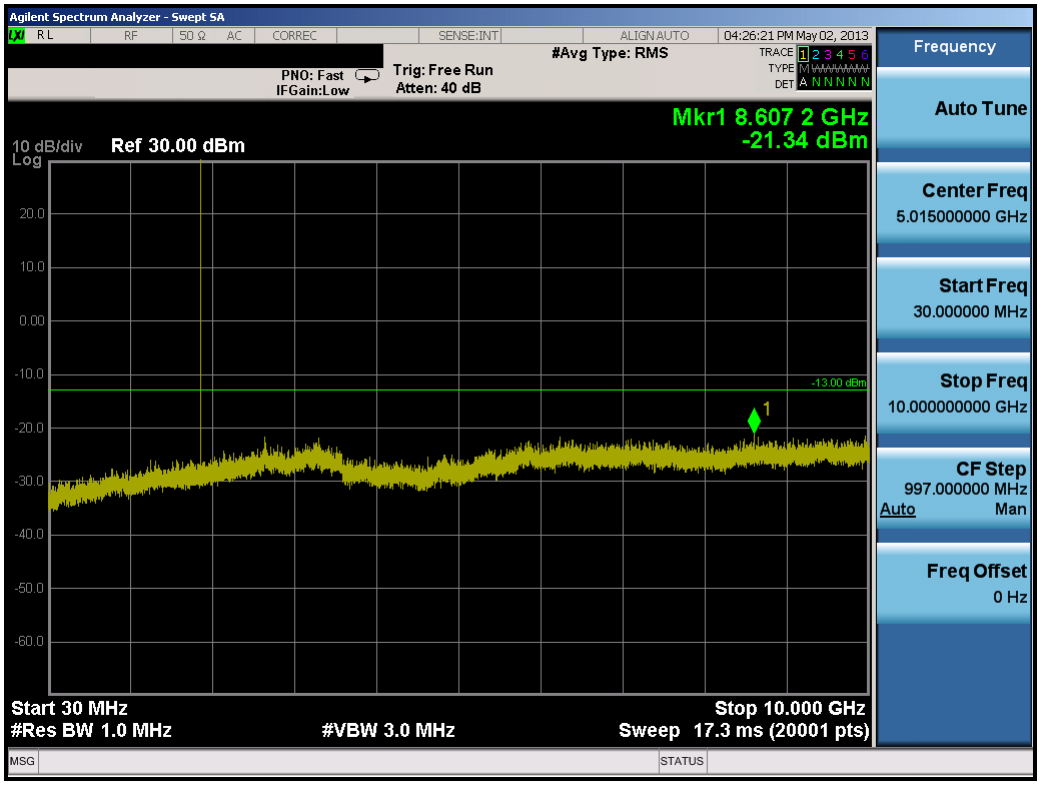
Plot 7-16. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)



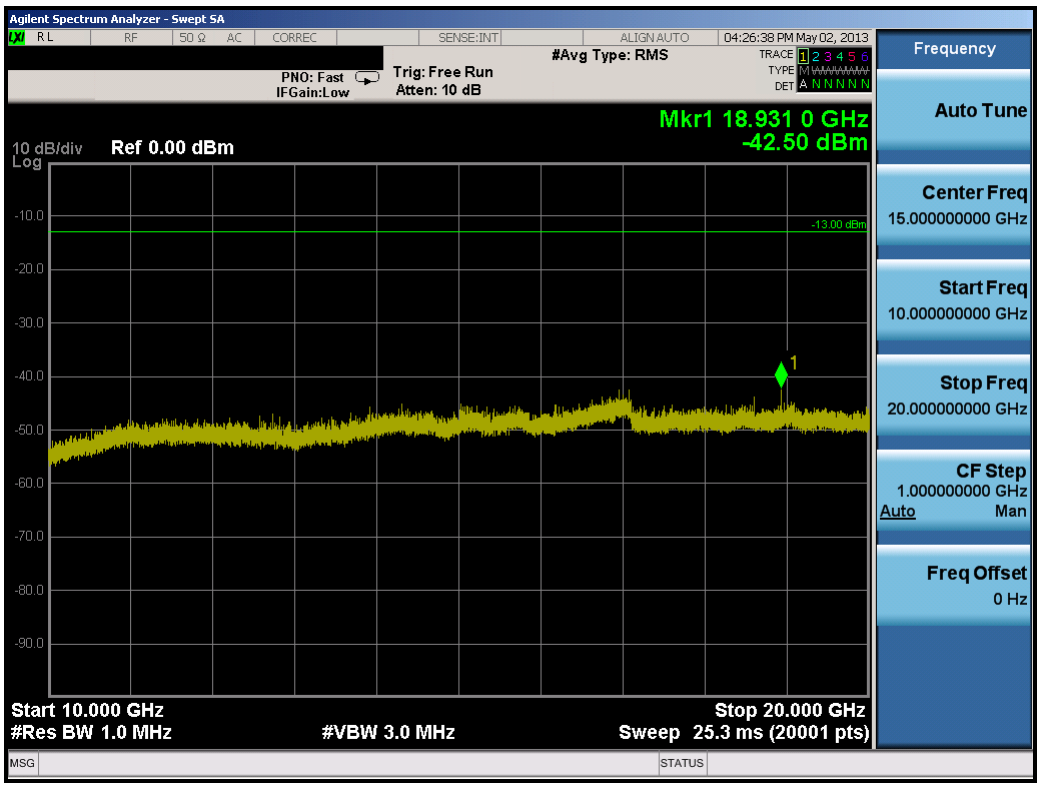
Plot 7-17. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)



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

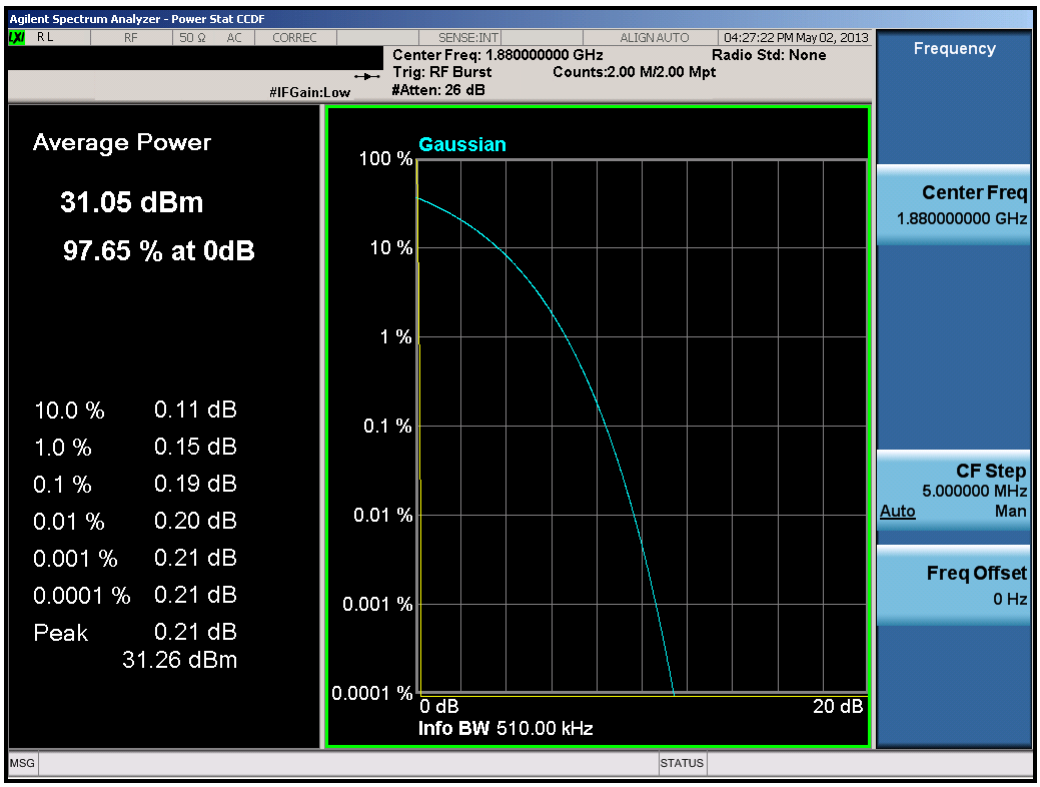


Plot 7-19. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

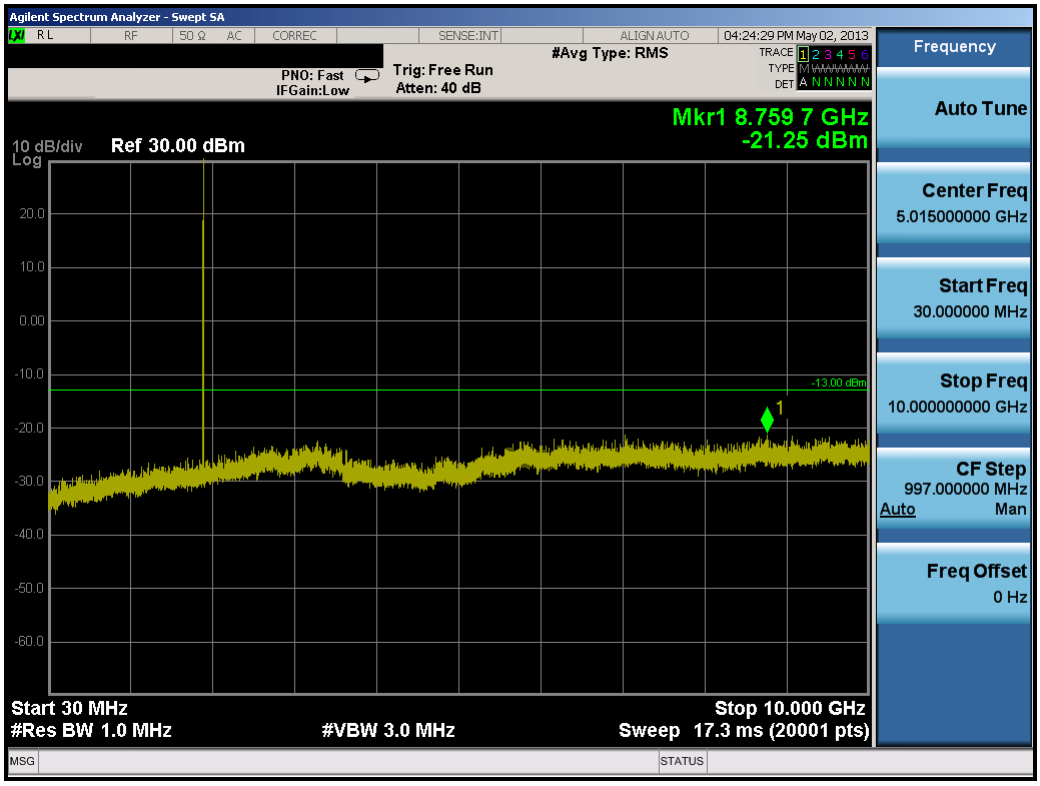


Plot 7-20. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

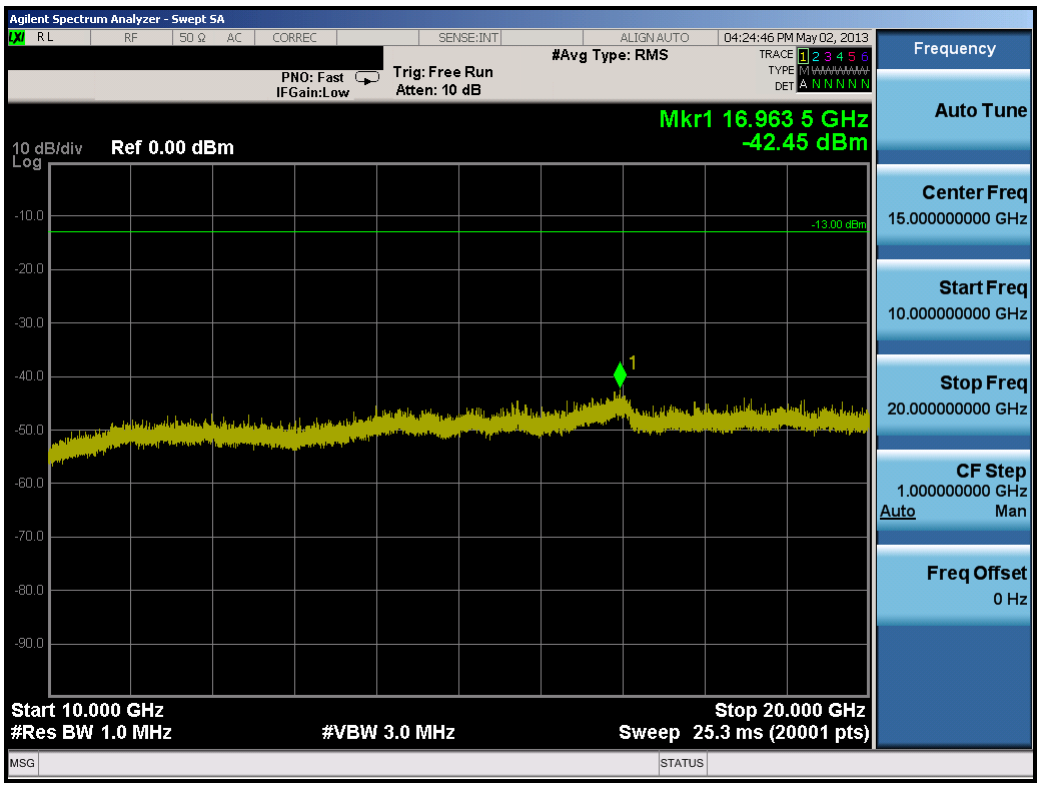
Plot 7-21. Occupied Bandwidth Plot (PCS GSM Mode – Ch. 661)



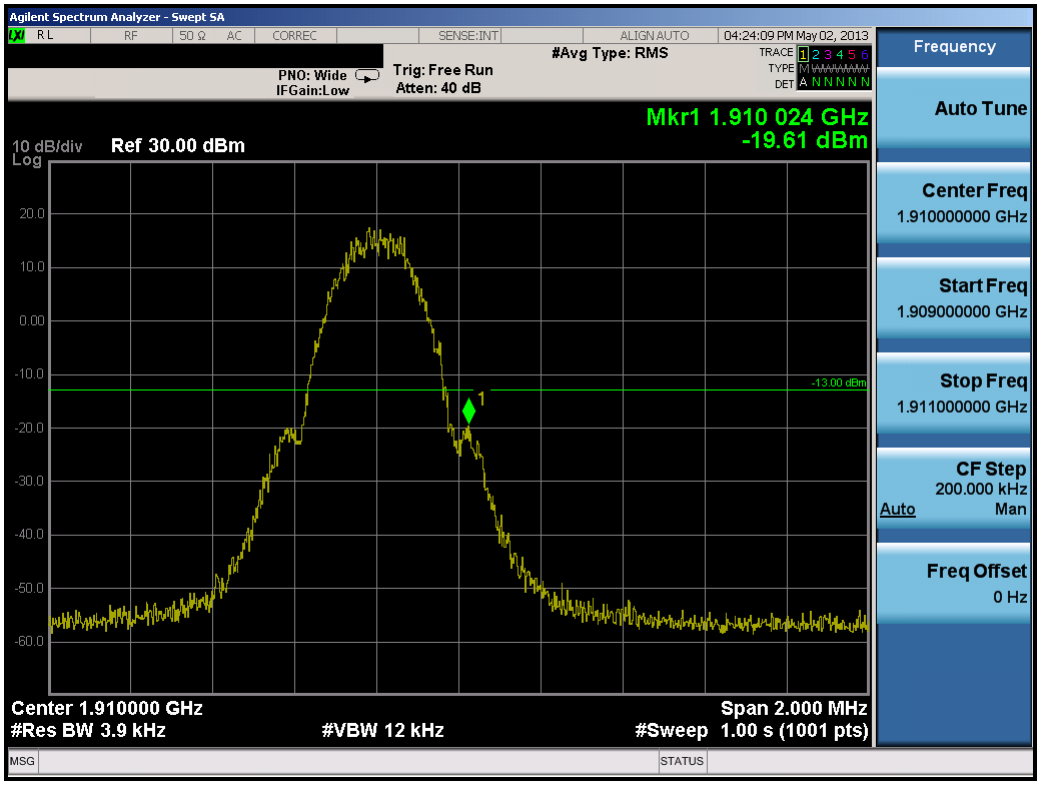
Plot 7-22. Peak-Average Ratio Plot (PCS GSM Mode – Ch. 661)



Plot 7-23. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

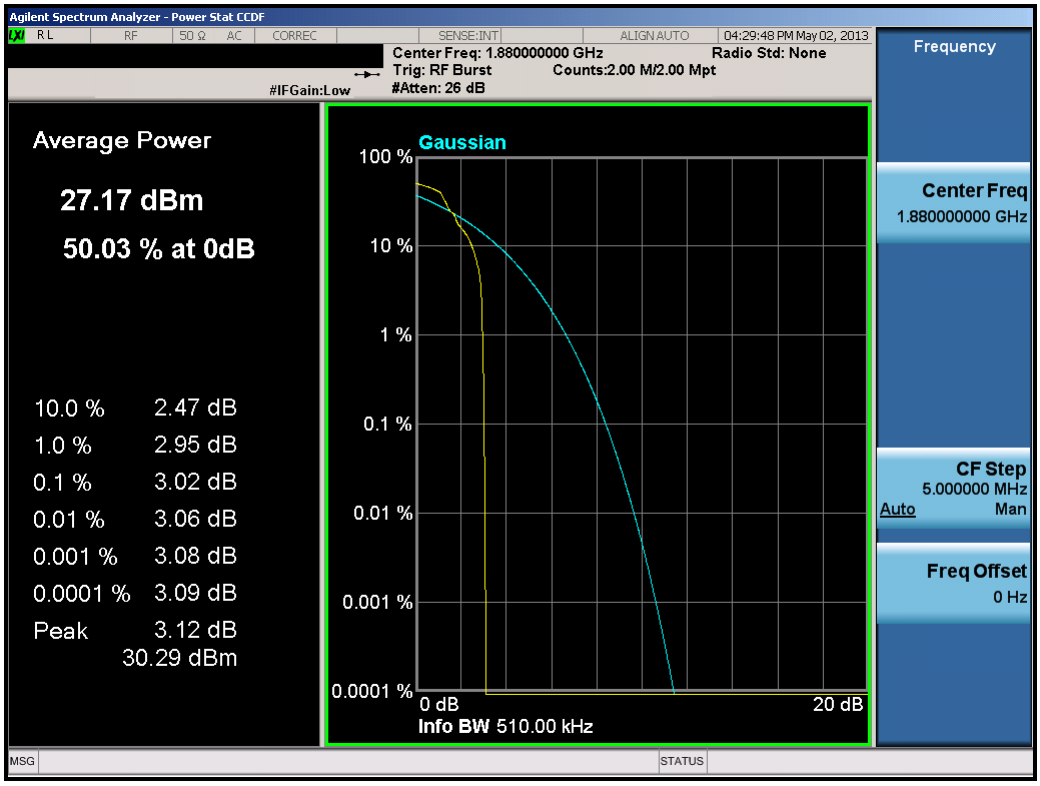


Plot 7-24. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

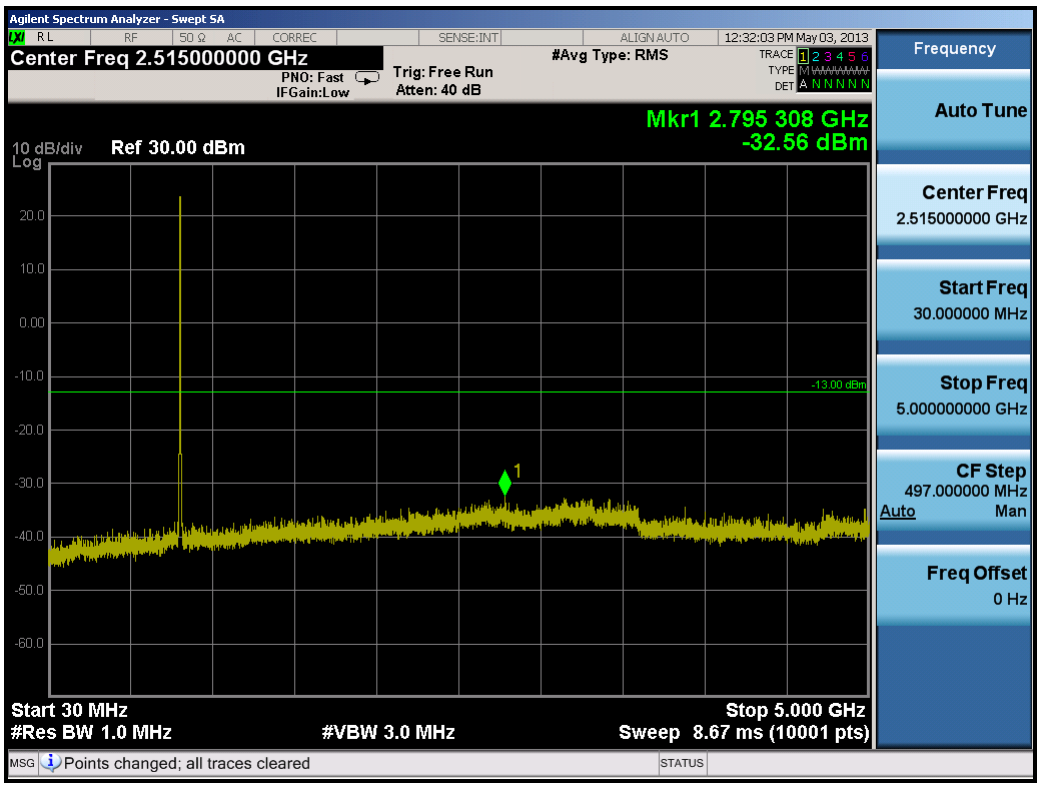


Plot 7-25. Band Edge Plot (PCS GSM Mode – Ch. 810)

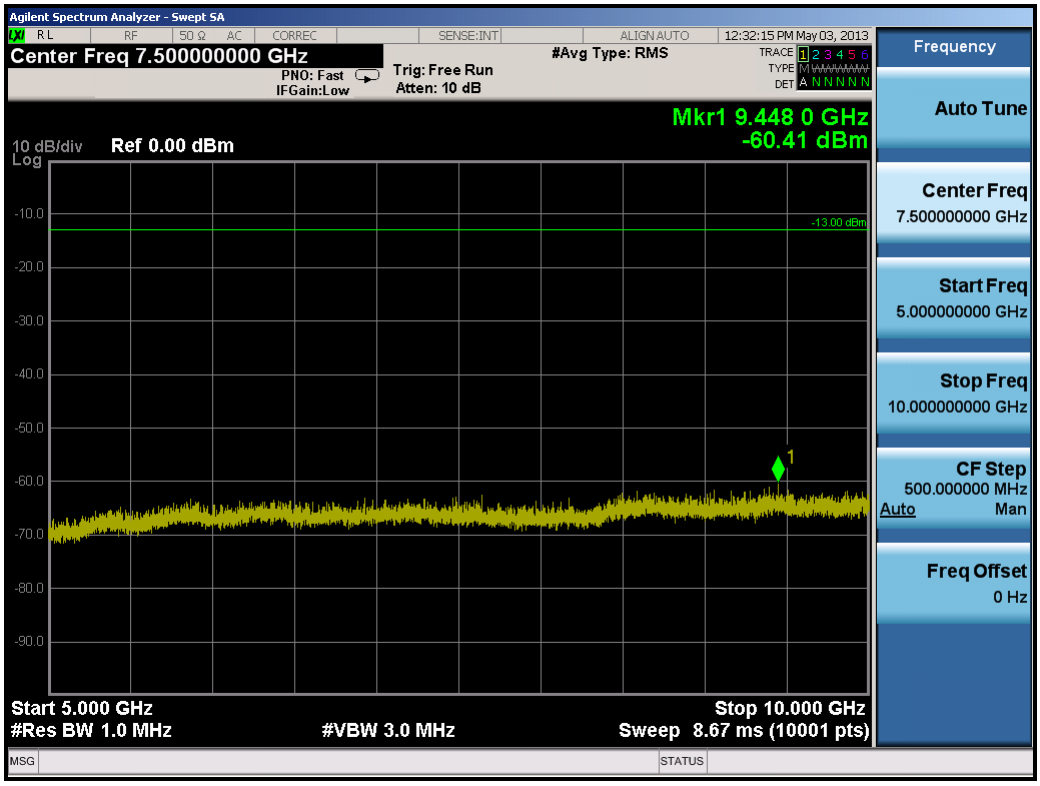
Plot 7-26. Occupied Bandwidth Plot (EDGE1900 Mode – Ch. 661)



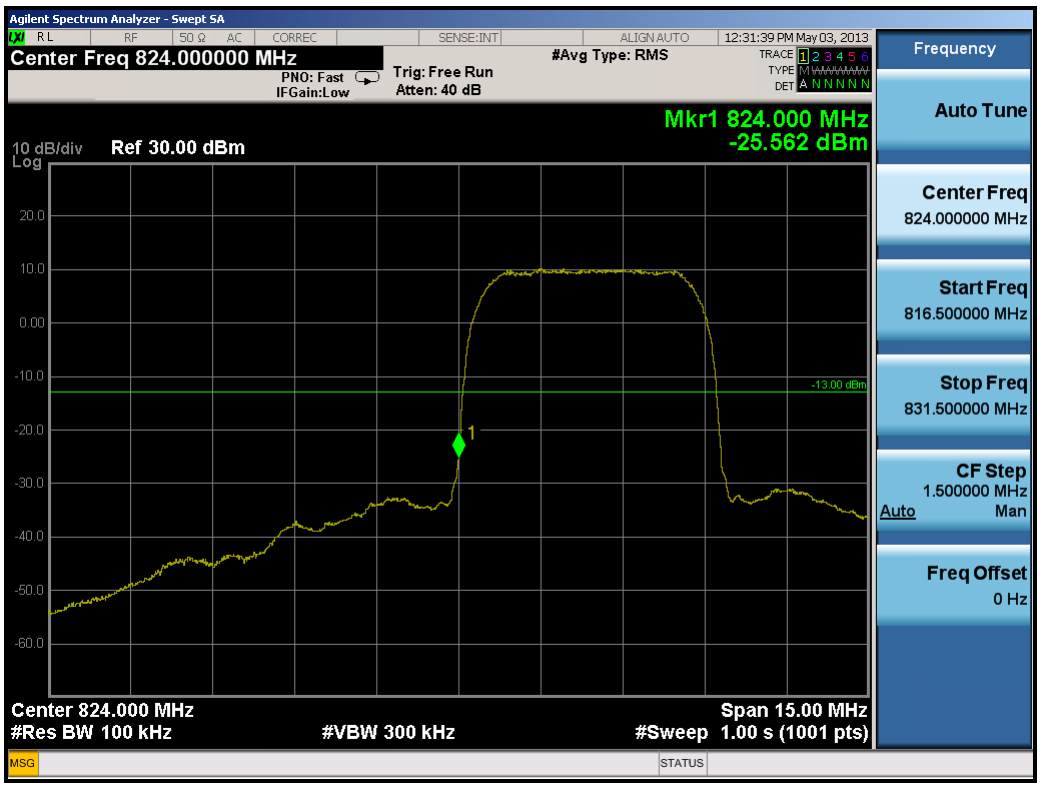
Plot 7-27. Peak-Average Ratio Plot (EDGE1900 Mode – Ch. 661)



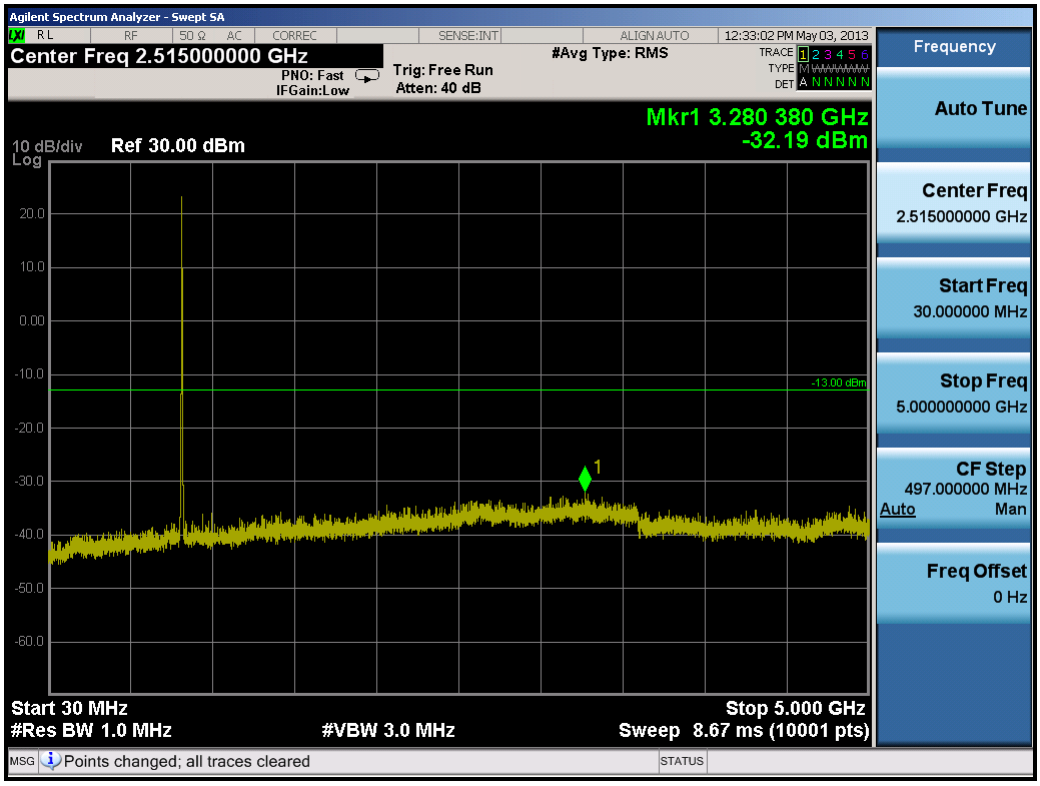
Plot 7-28. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)



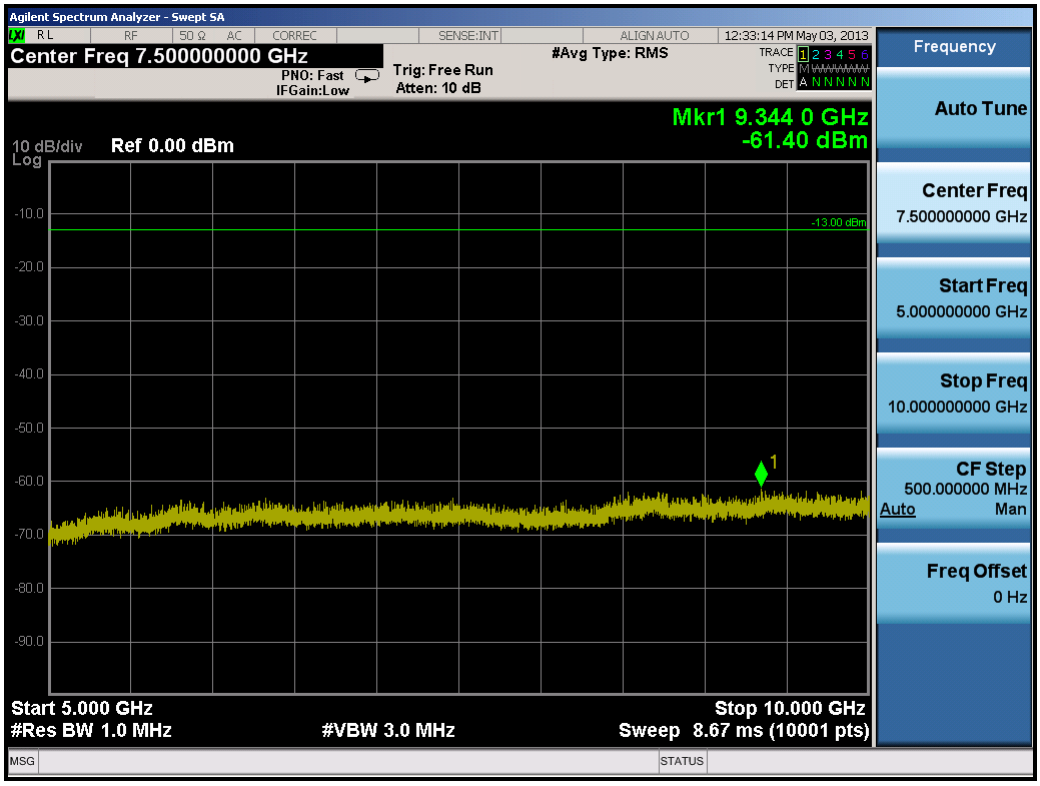
Plot 7-29. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)



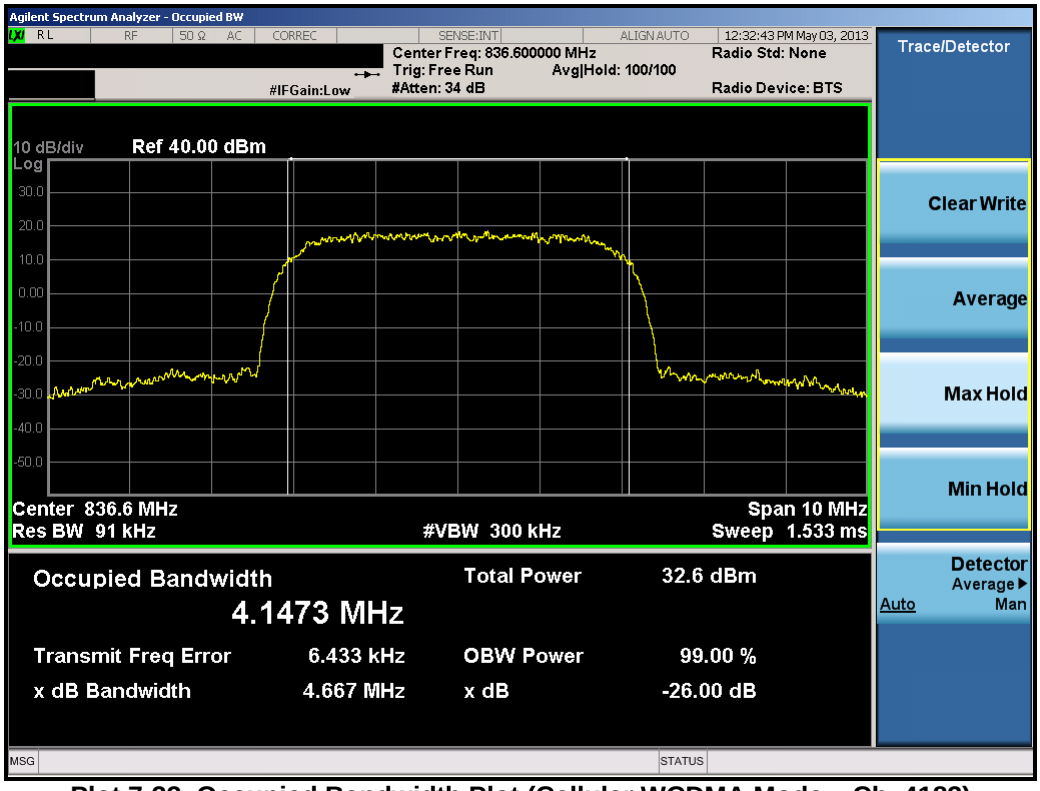
Plot 7-30. Band Edge Plot (Cellular WCDMA Mode – Ch. 4132)



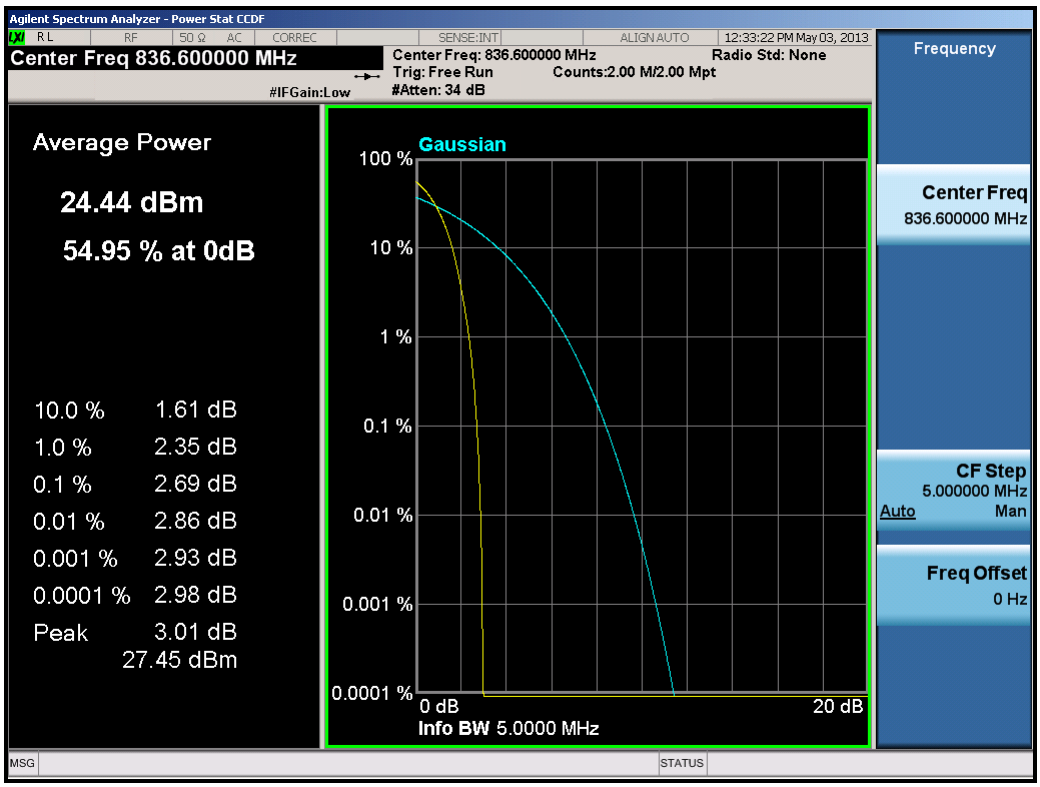
Plot 7-31. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4183)



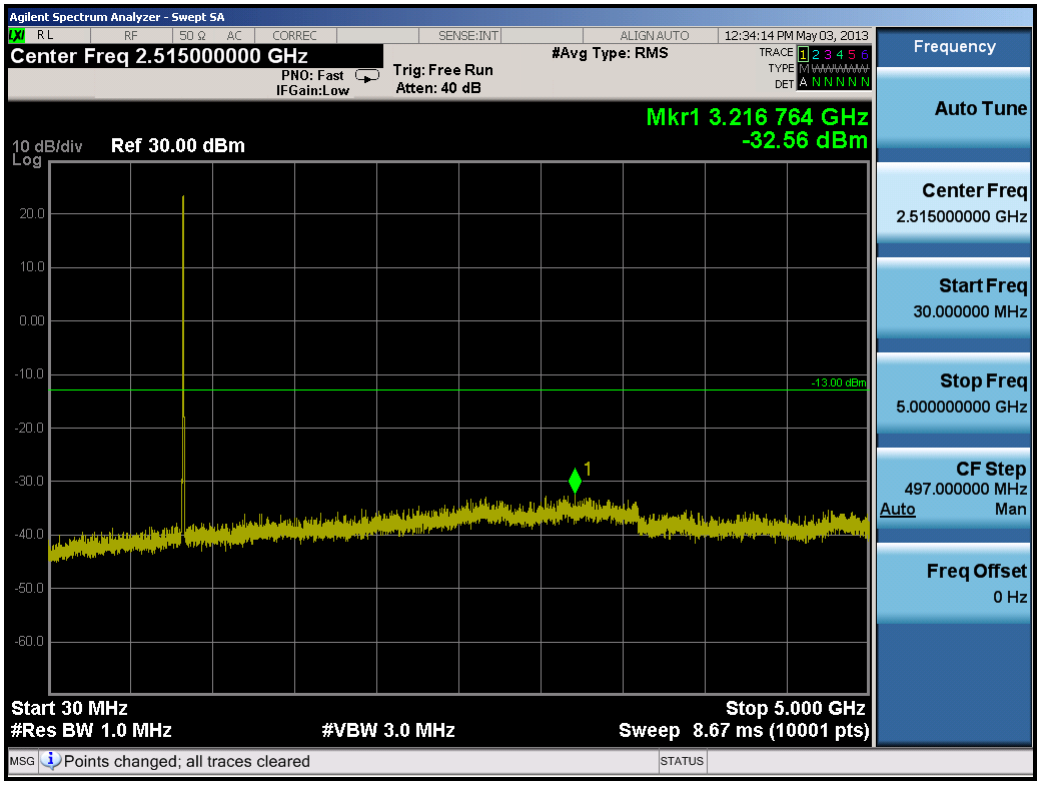
Plot 7-32. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4183)



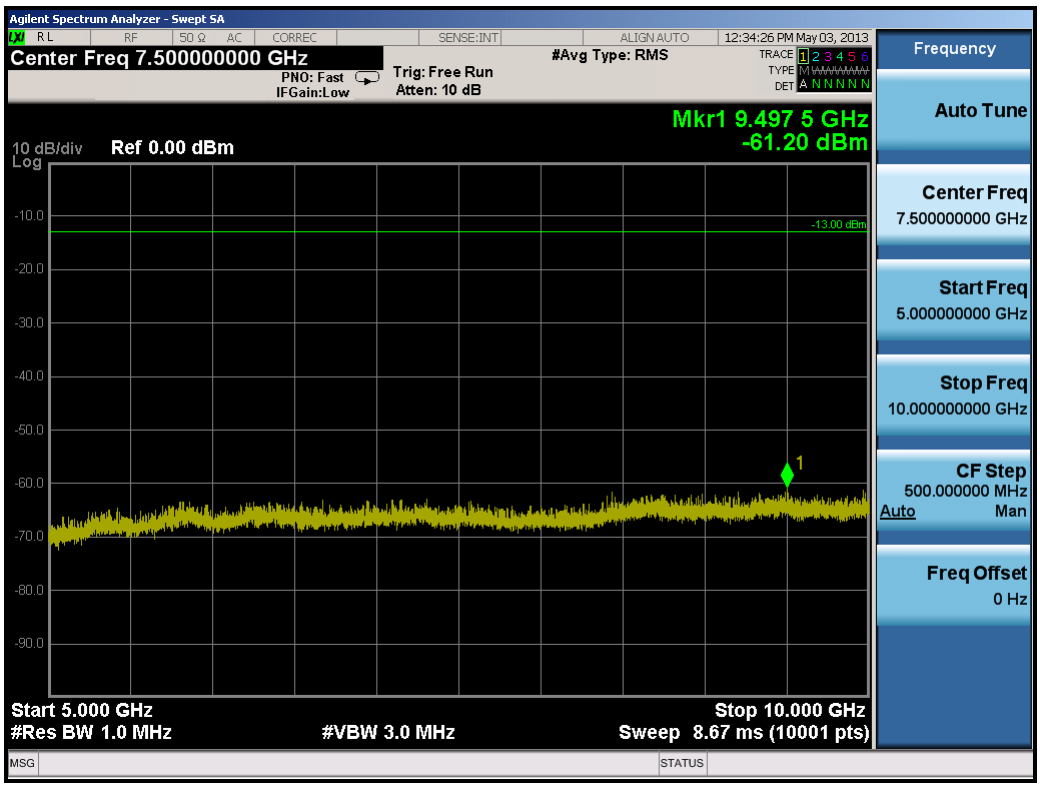
Plot 7-33. Occupied Bandwidth Plot (Cellular WCDMA Mode – Ch. 4183)



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

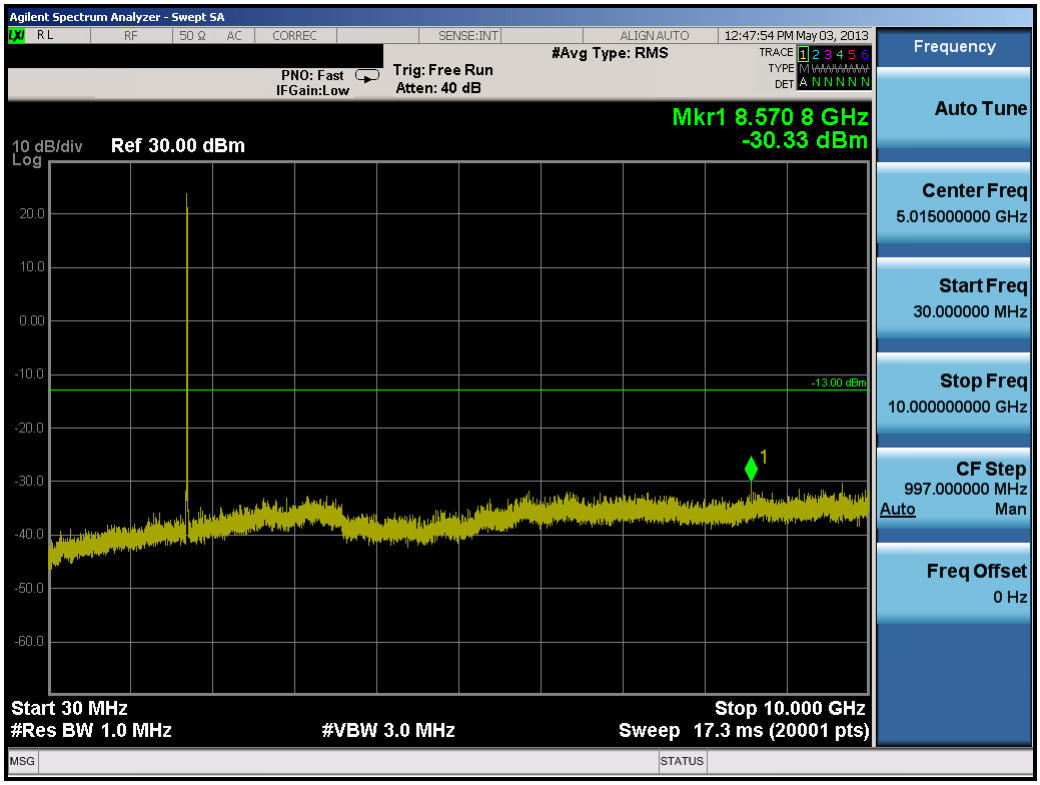


Plot 7-35. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)

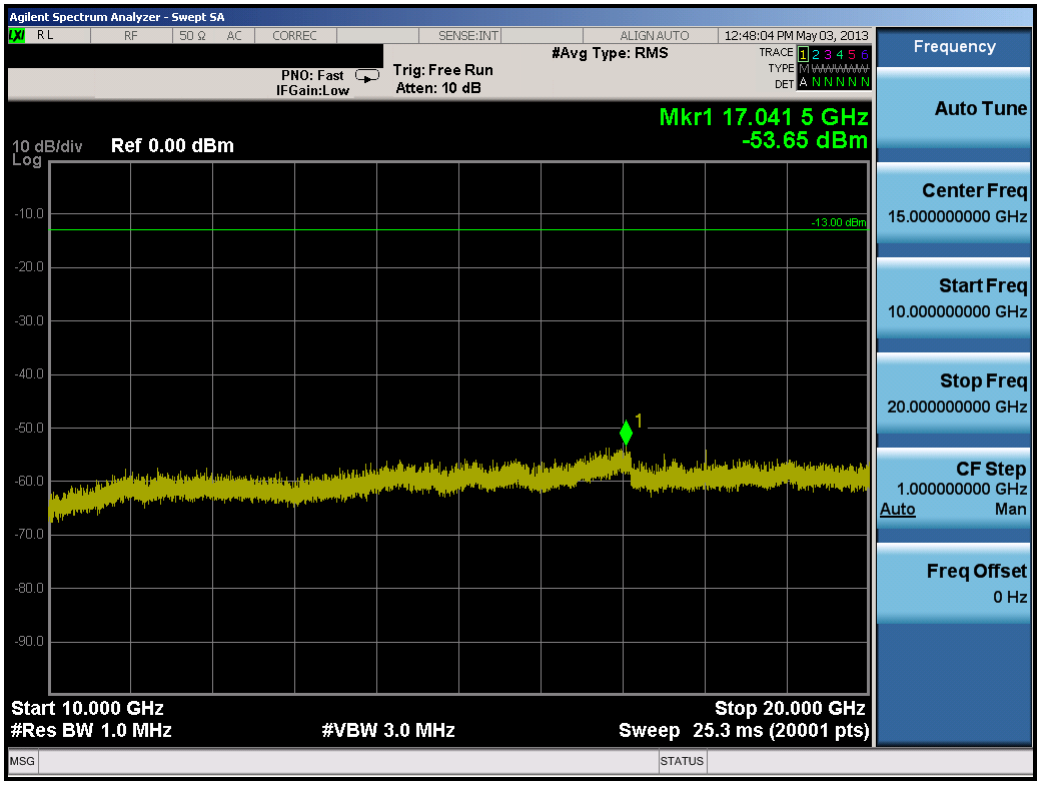


Plot 7-36. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)

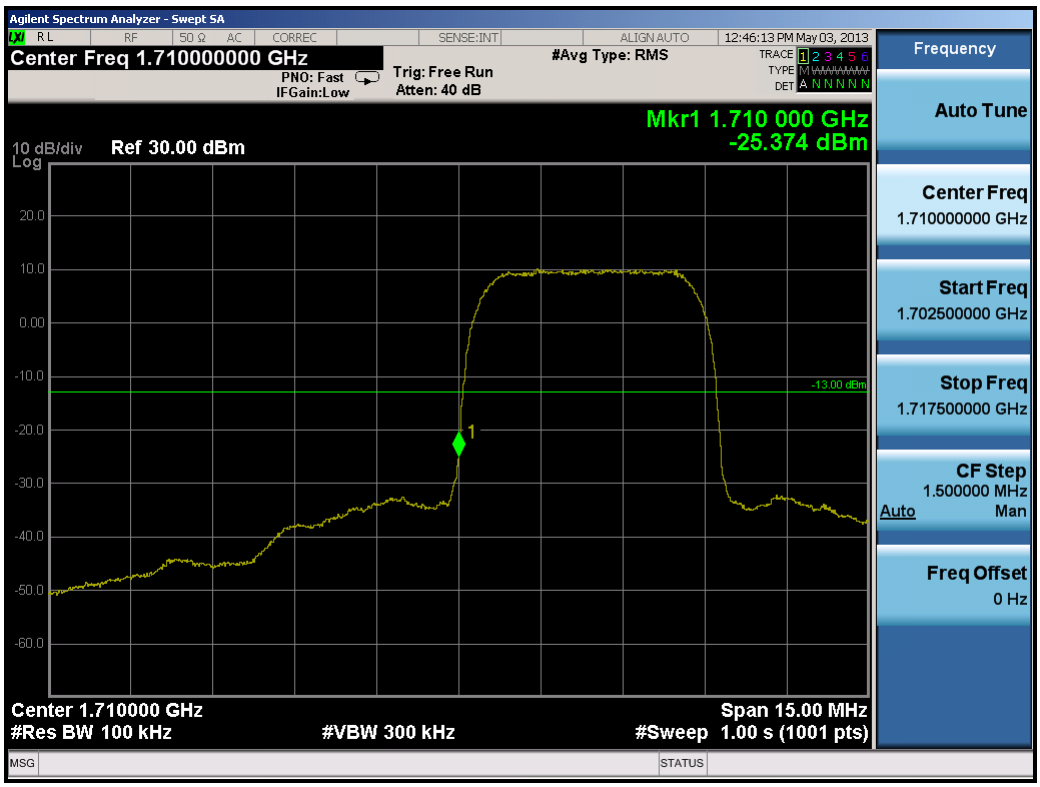
Plot 7-37. Band Edge Plot (Cellular WCDMA Mode – Ch. 4233)



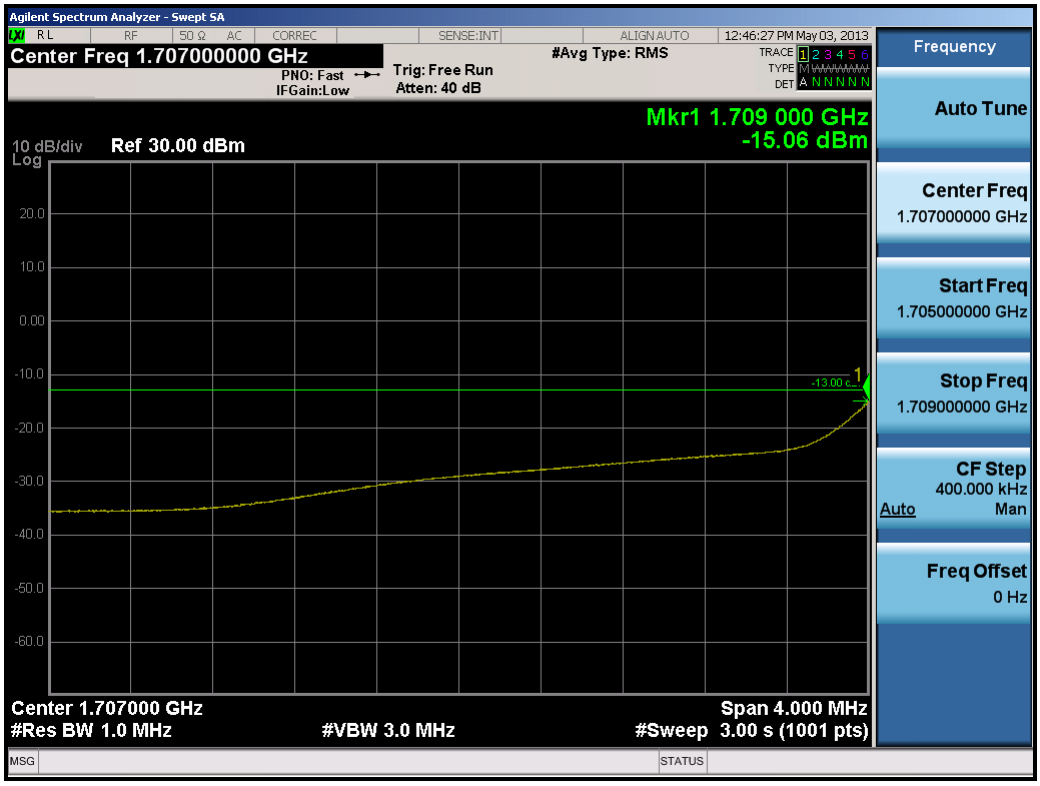
Plot 7-38. Conducted Spurious Plot (AWS WCDMA Mode – Ch. 1312)



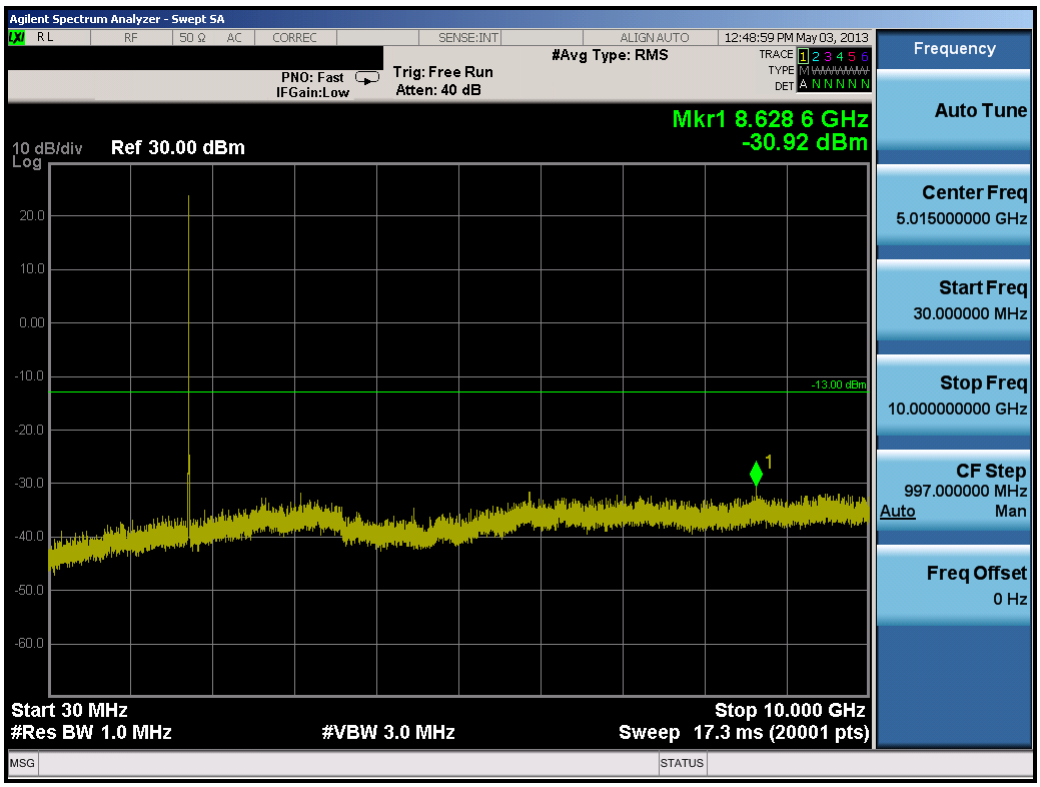
Plot 7-39. Conducted Spurious Plot (AWS WCDMA Mode – Ch. 1312)



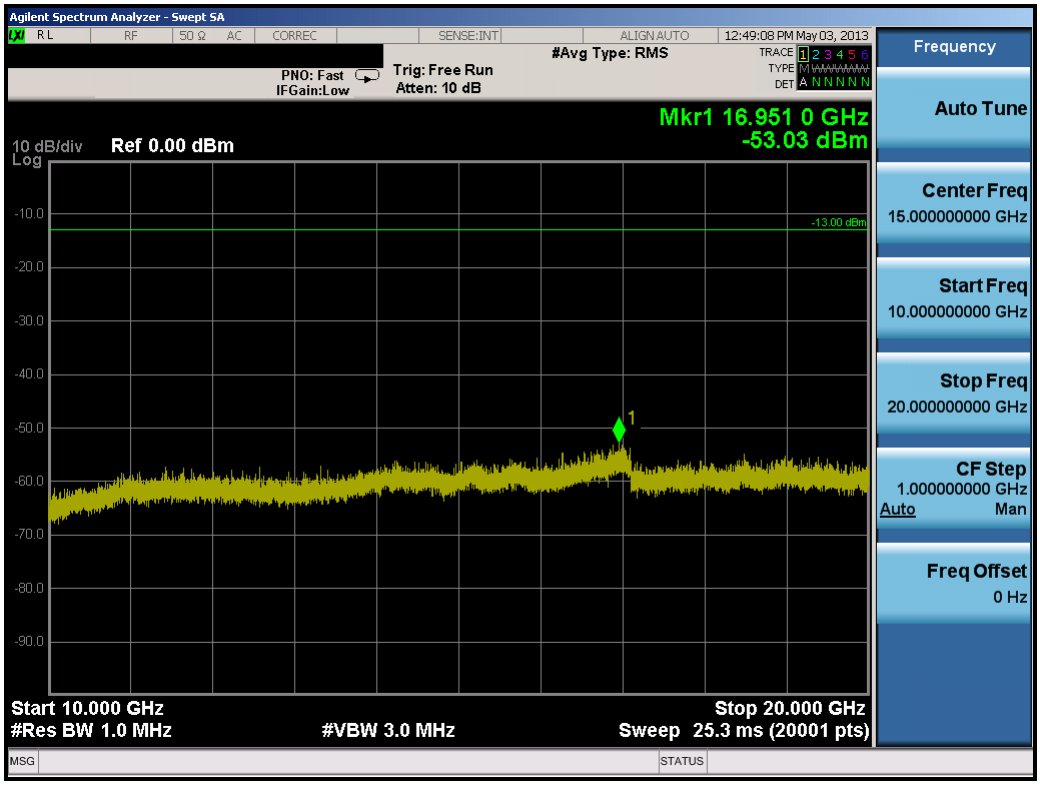
Plot 7-40. Band Edge Plot (AWS WCDMA Mode – Ch. 1312)



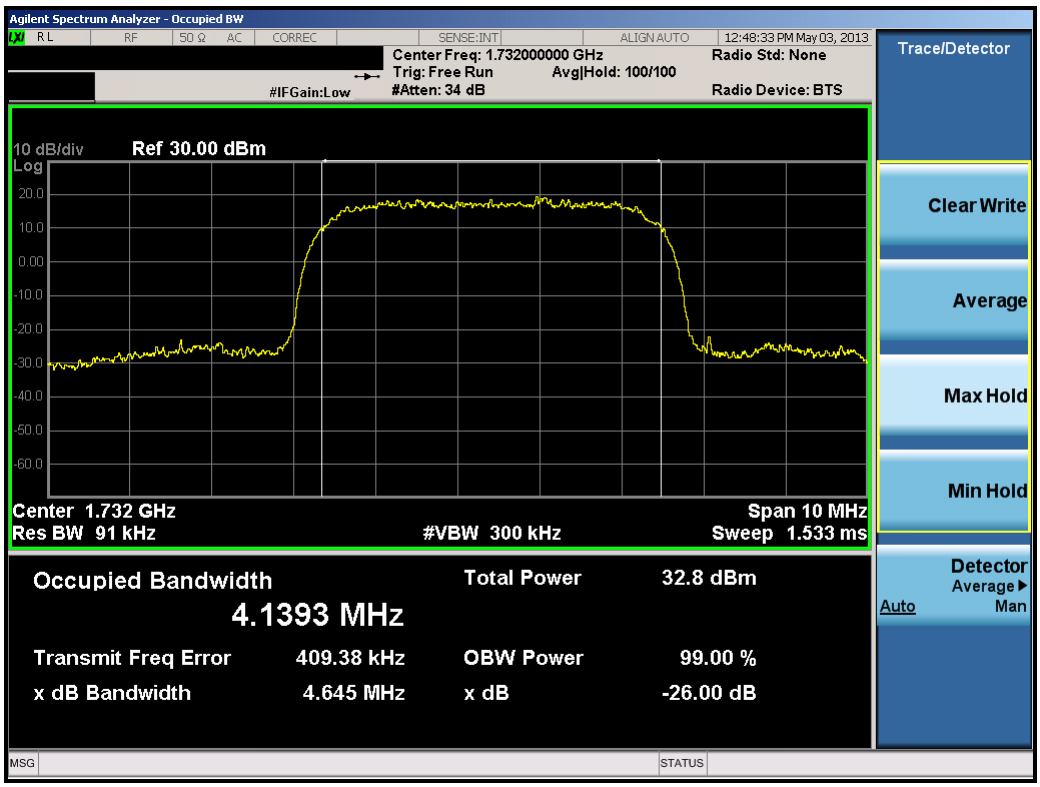
Plot 7-41. 4MHz Span Plot (AWS WCDMA Mode – Ch. 1312)



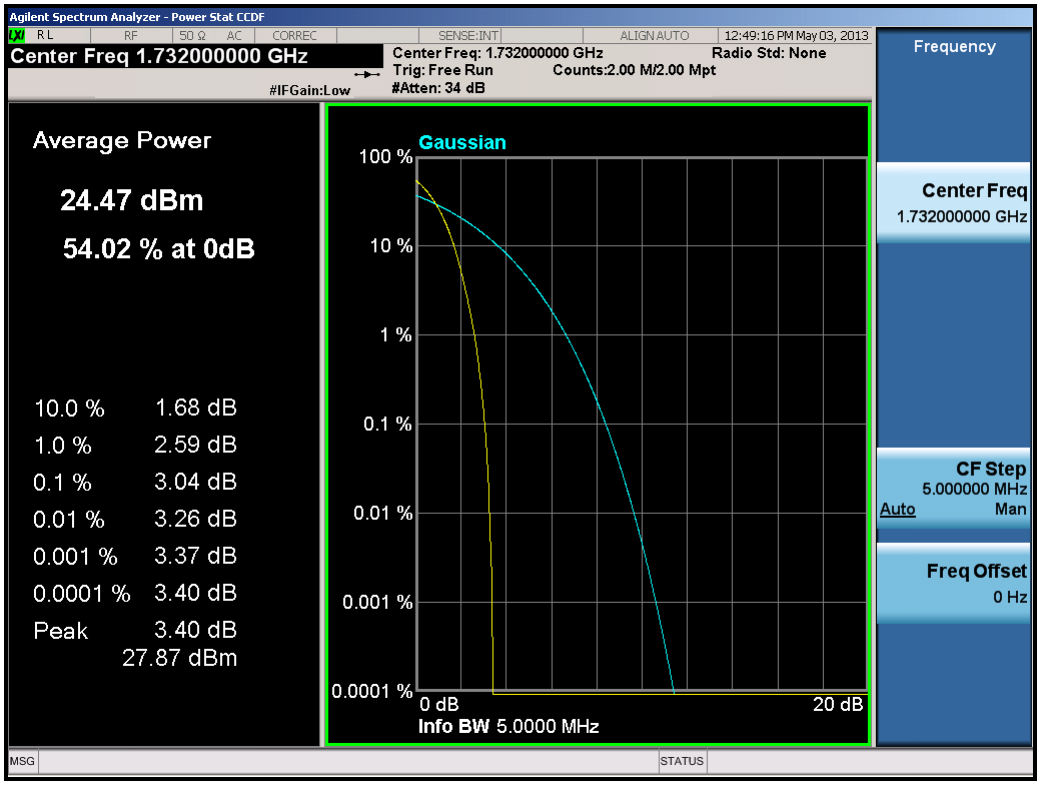
Plot 7-42. Conducted Spurious Plot (AWS WCDMA Mode – Ch. 1412)



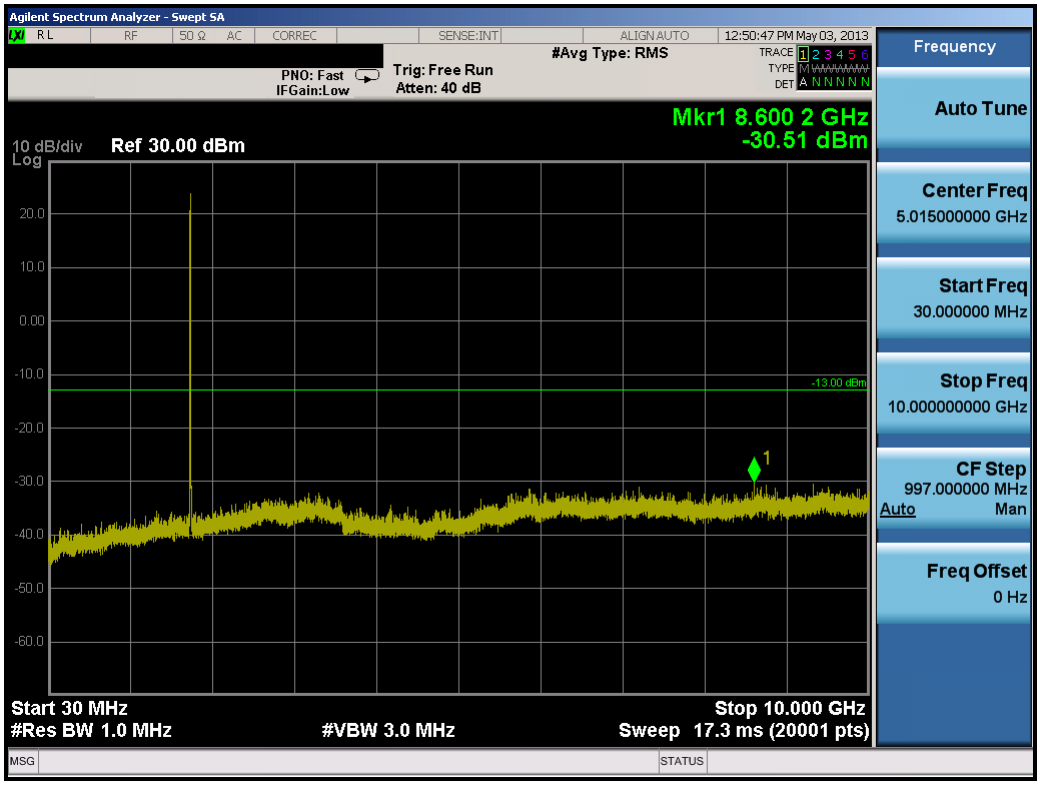
Plot 7-43. Conducted Spurious Plot (AWS WCDMA Mode – Ch. 1412)



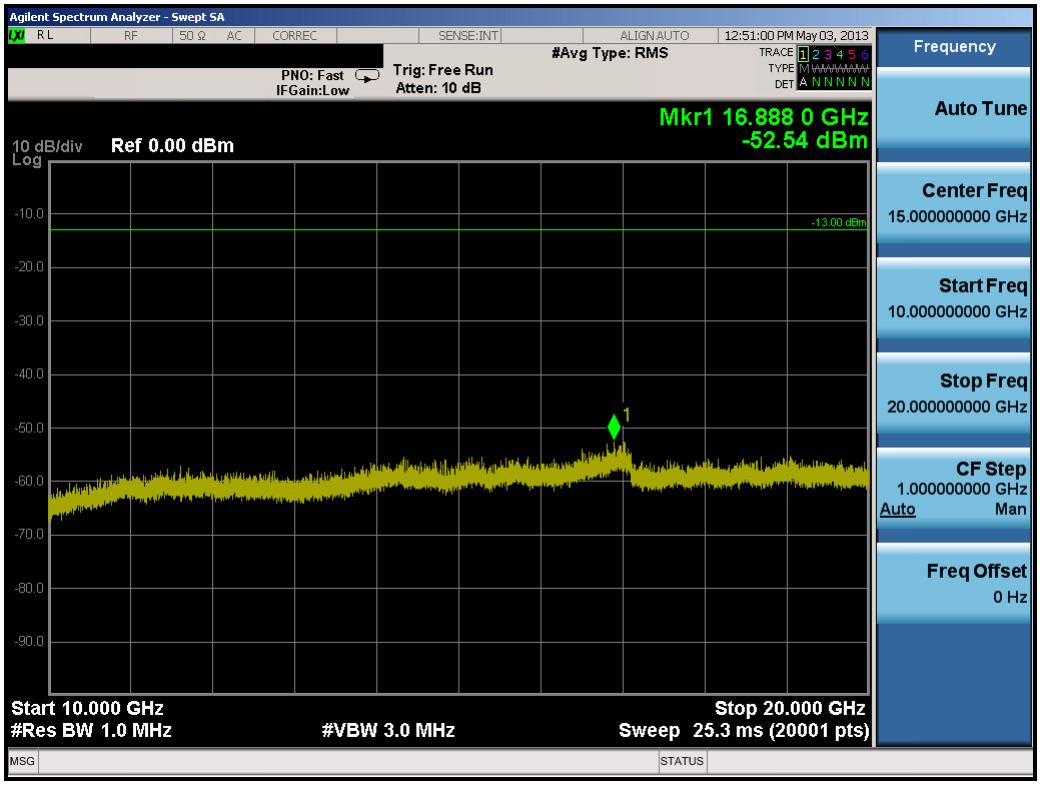
Plot 7-44. Occupied Bandwidth Plot (AWS WCDMA Mode – Ch. 1412)



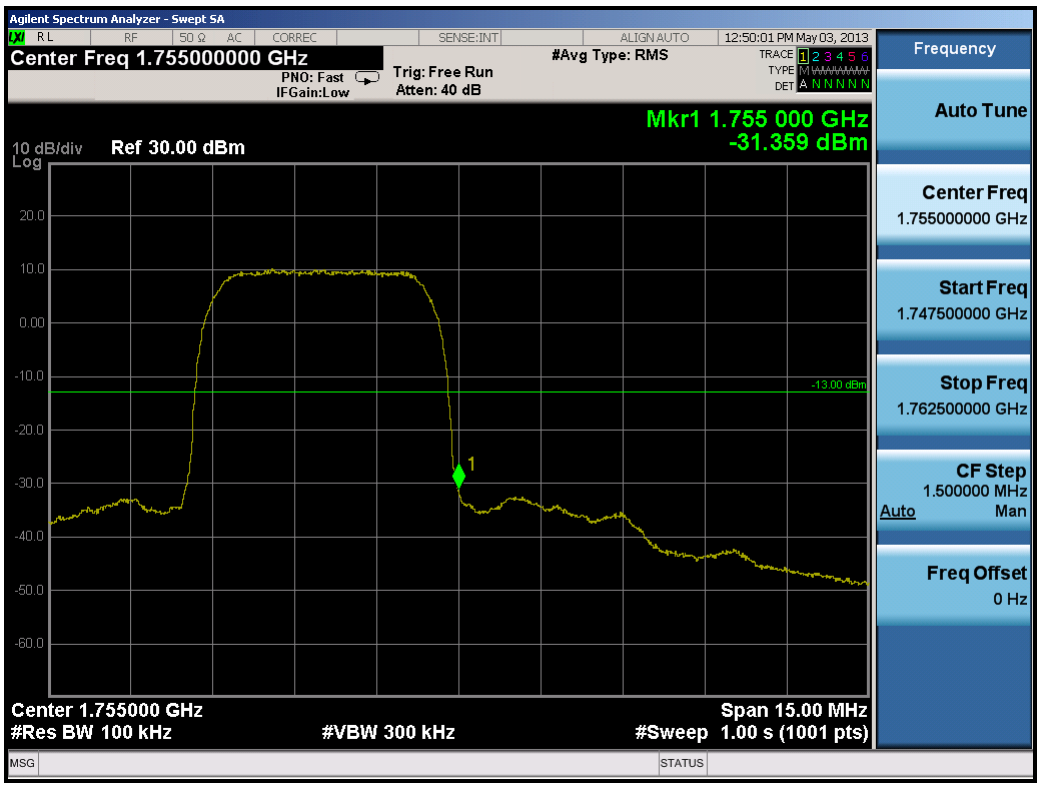
Plot 7-45. Peak-Average Ratio Plot (AWS WCDMA Mode – Ch. 1412)



Plot 7-46. Conducted Spurious Plot (AWS WCDMA Mode – Ch. 1862)

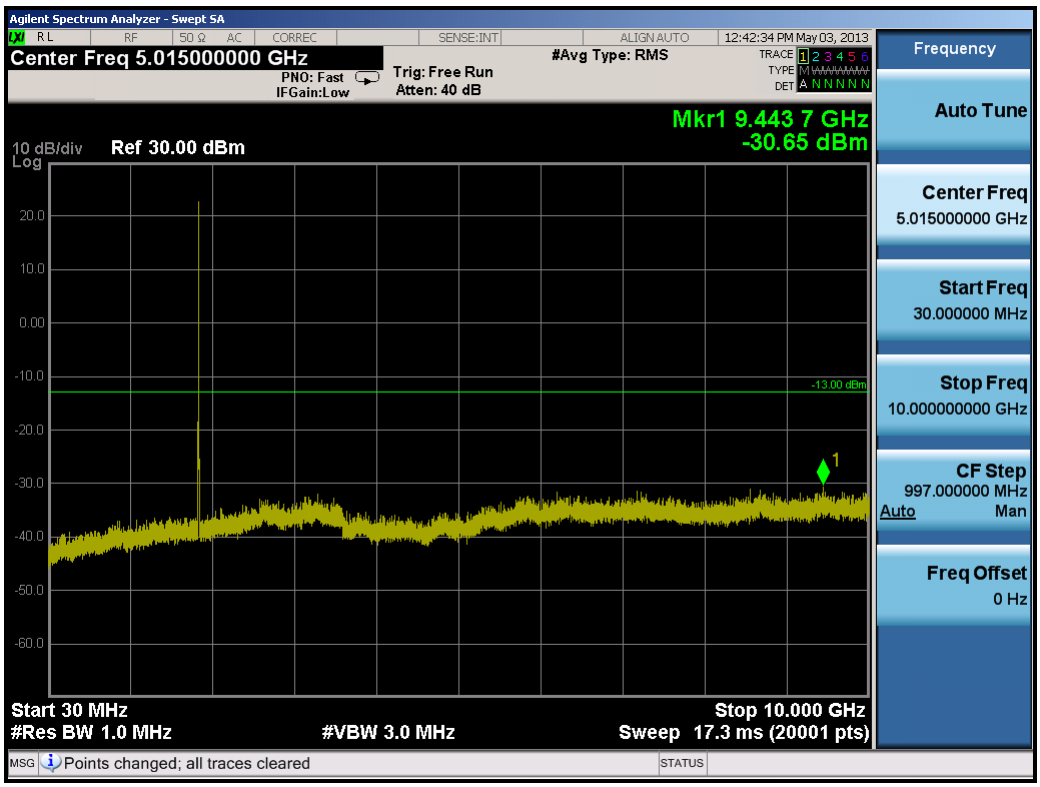


Plot 7-47. Conducted Spurious Plot (AWS WCDMA Mode – Ch. 1862)

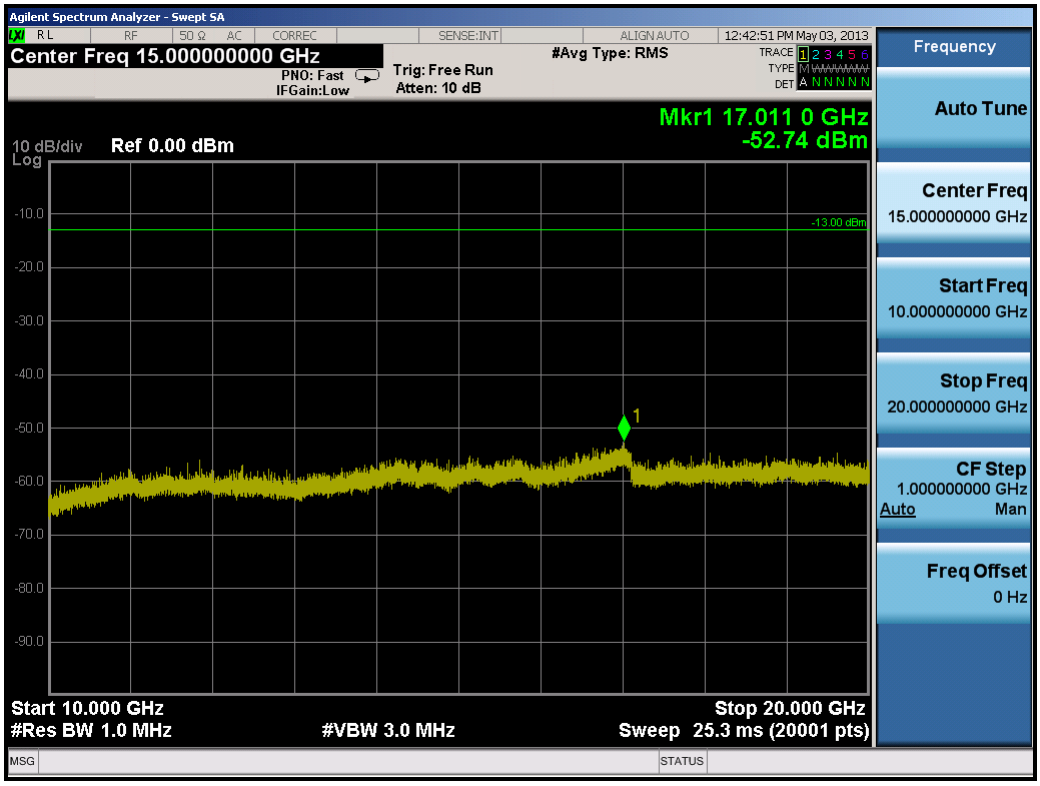


Plot 7-48. Band Edge Plot (AWS WCDMA Mode – Ch. 1862)

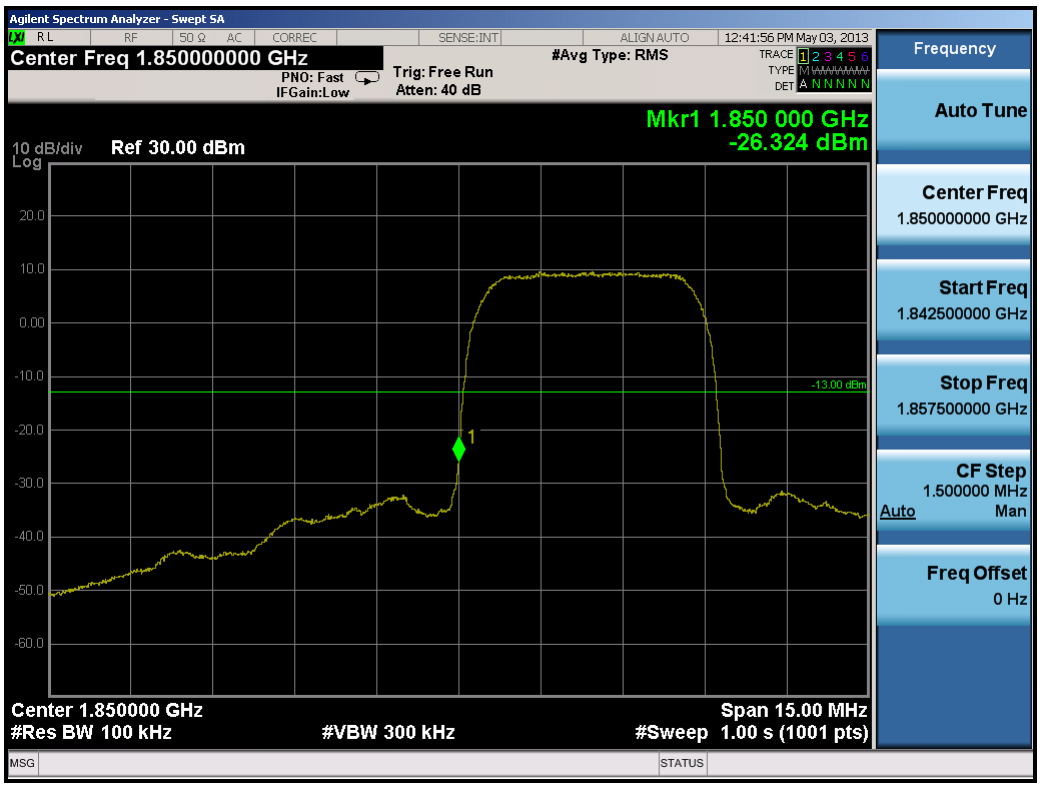
Plot 7-49. 4MHz Span Plot (AWS WCDMA Mode – Ch. 1862)



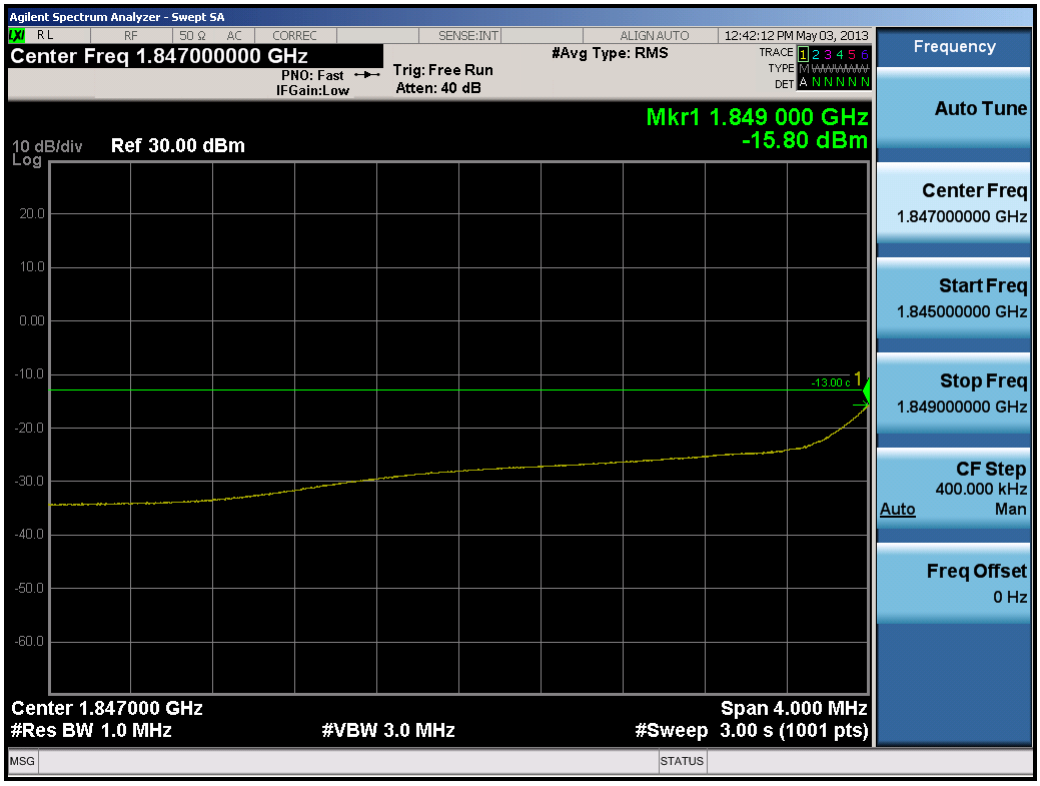
Plot 7-50. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9262)



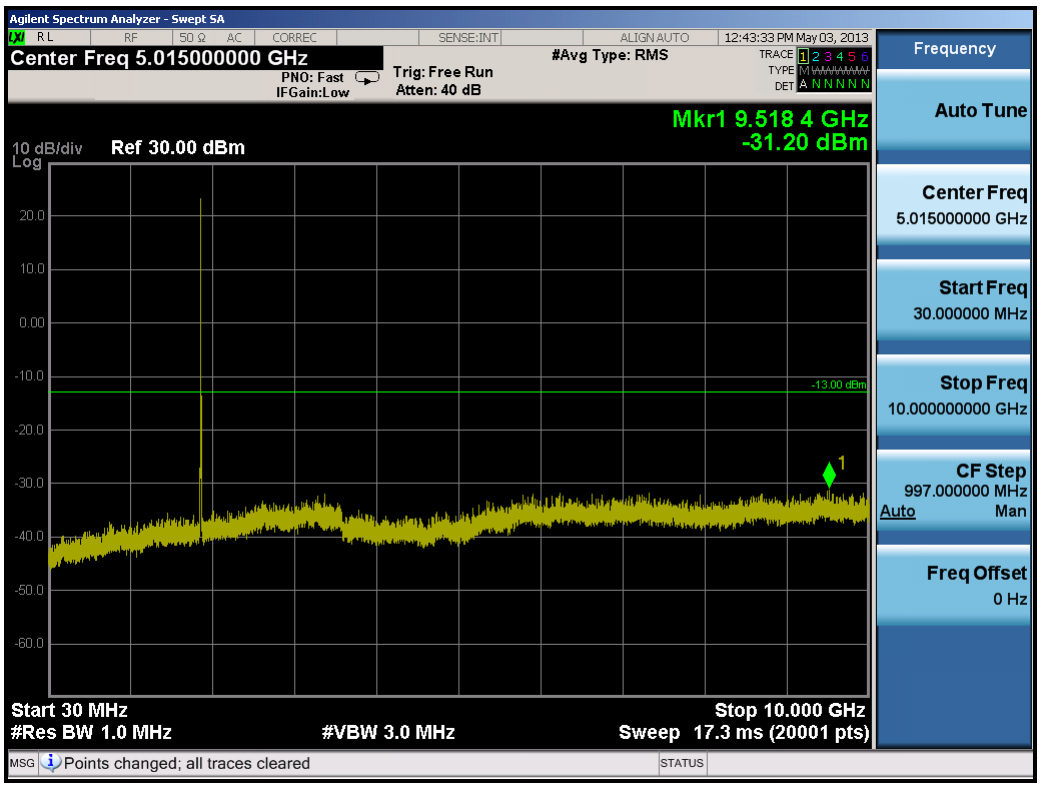
Plot 7-51. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9262)



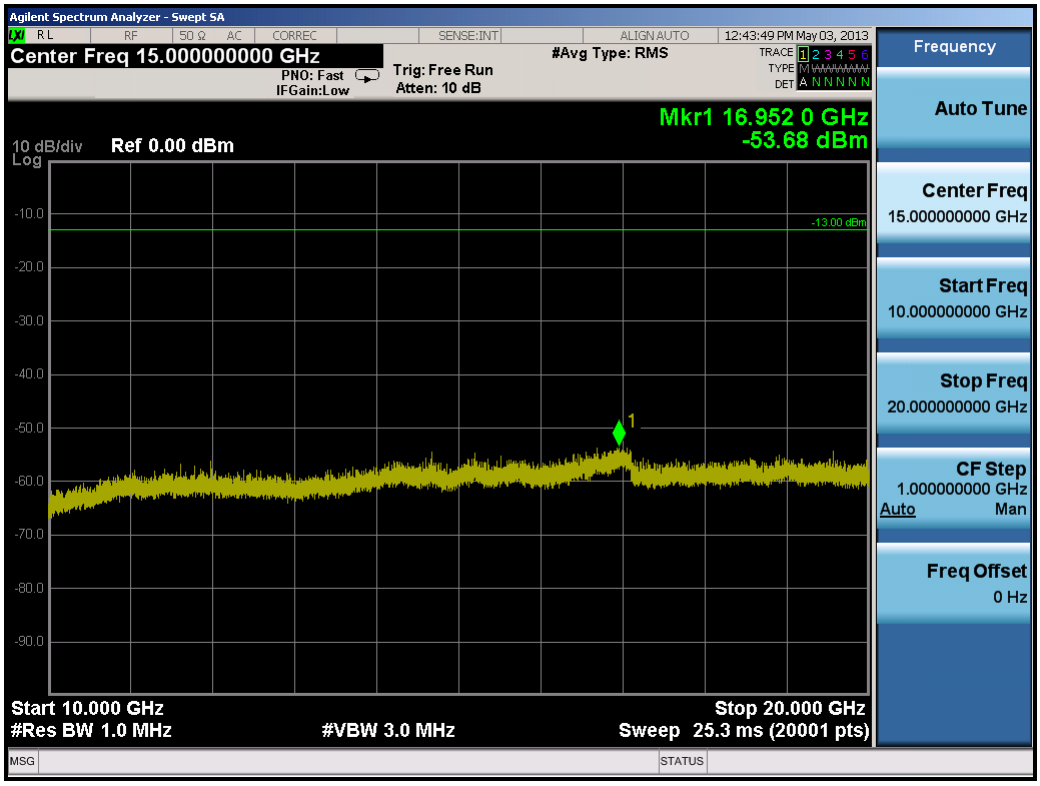
Plot 7-52. Band Edge Plot (PCS WCDMA Mode – Ch. 9262)



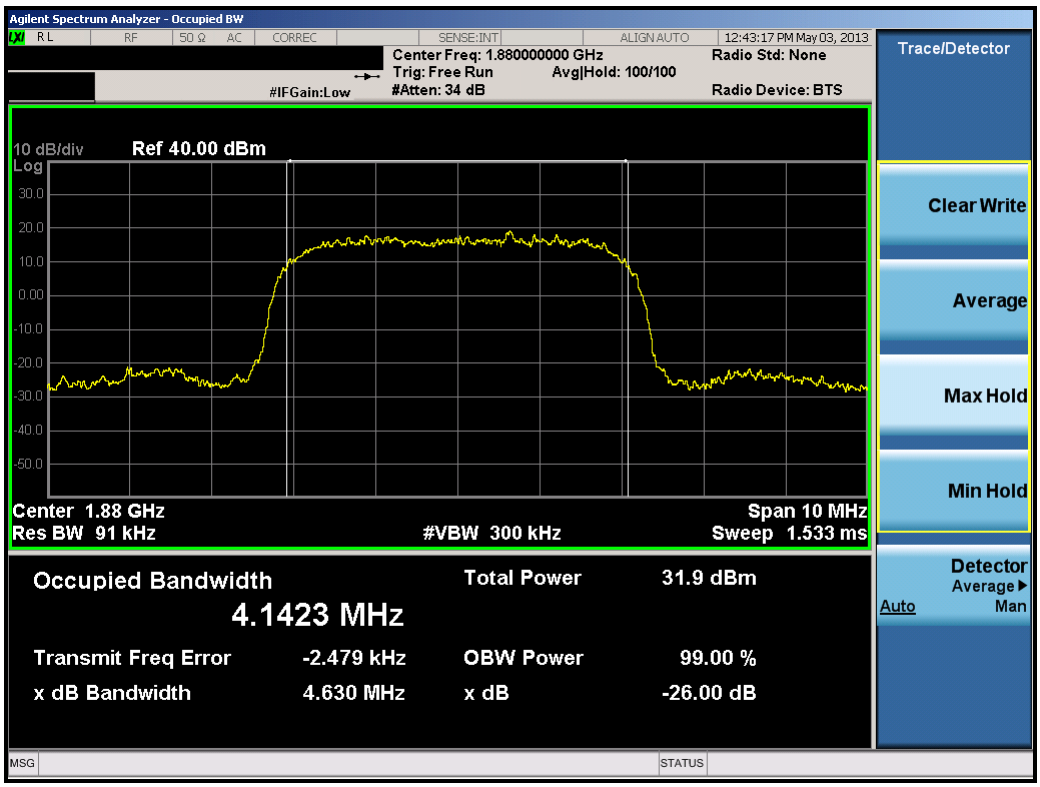
Plot 7-53. 4MHz Span Plot (PCS WCDMA Mode – Ch. 9262)



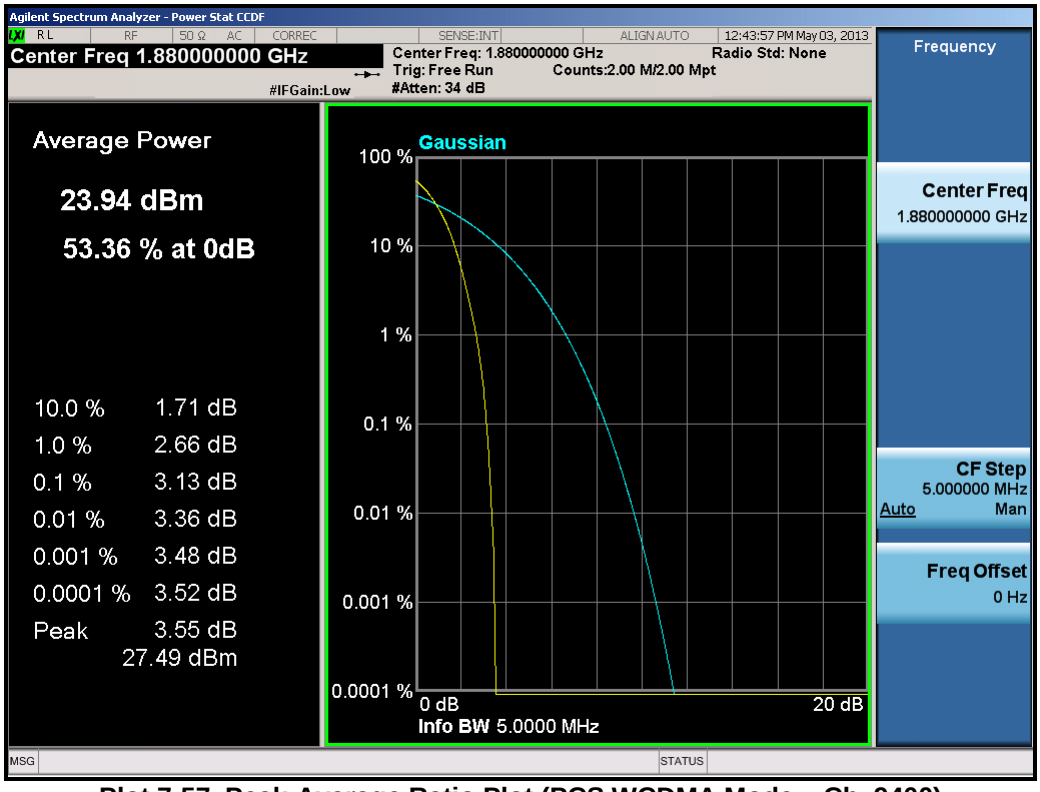
Plot 7-54. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9400)



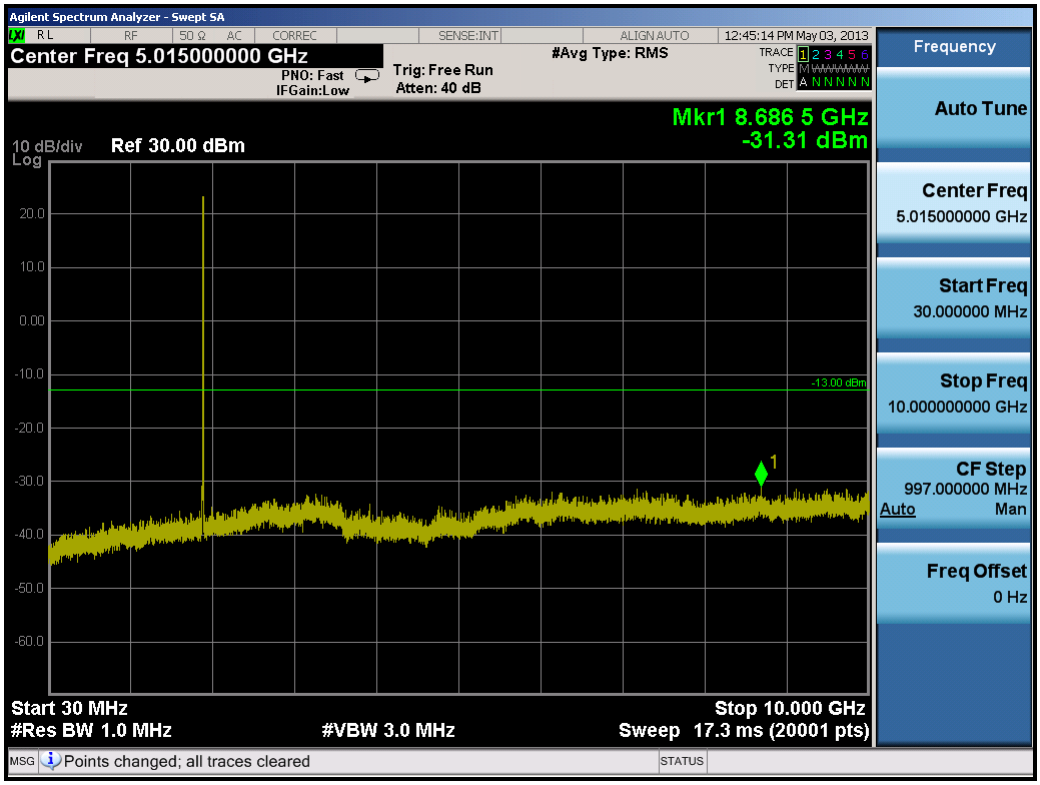
Plot 7-55. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9400)



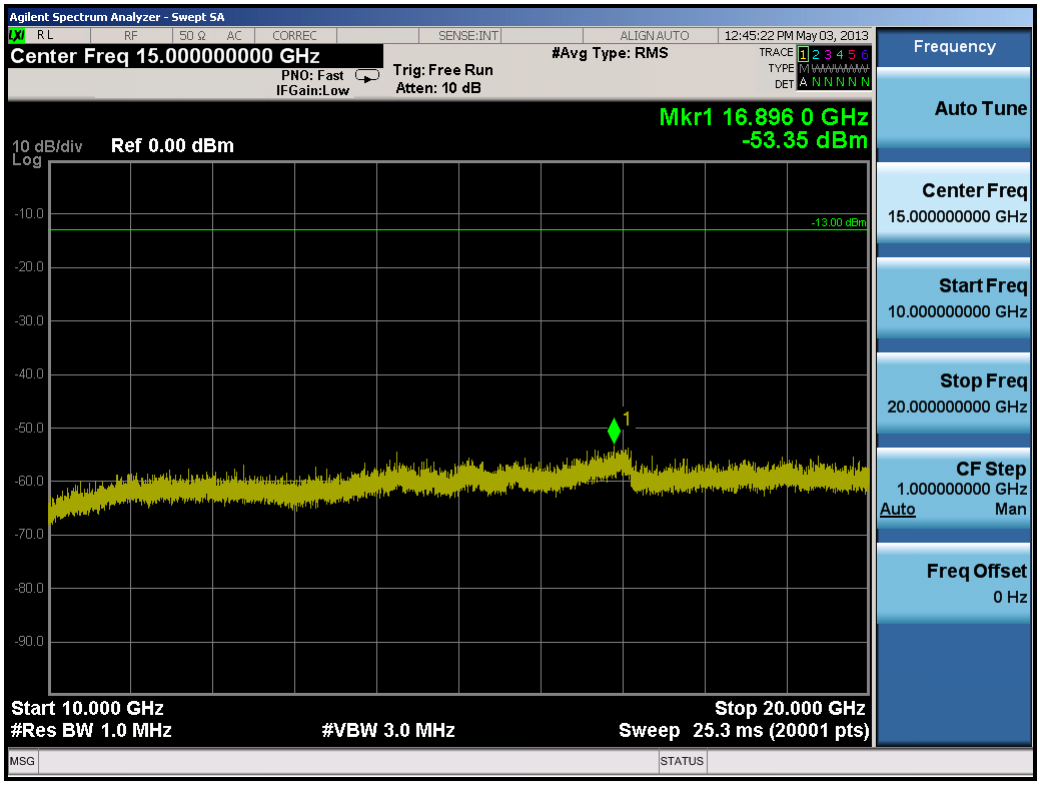
Plot 7-56. Occupied Bandwidth Plot (PCS WCDMA Mode – Ch. 9400)



Plot 7-57. Peak-Average Ratio Plot (PCS WCDMA Mode – Ch. 9400)



Plot 7-58. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9538)



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

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

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

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sony Portable Handset FCC ID: PY7PM-0530** complies with all the requirements of Parts 2, 22, 24, and 27 of the FCC rules and RSS-132, RSS-133, and RSS-139 of the Industry Canada rules.