



PCTEST ENGINEERING LABORATORY, INC.

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MEASUREMENT REPORT FCC Part 22 & 24 / IC RSS-132/RSS-133

Applicant Name:
Sierra Wireless, Inc.
13811 Wireless Way
Richmond, Canada

Date of Testing:
Oct. 25 - Nov. 11, 2010
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0Y1010261758.N7N-R2

FCC ID:	N7NMC7750
APPLICANT:	SIERRA WIRELESS, INC.

Application Type: Certification
FCC Classification: PCS Licensed Transmitter (PCB)
FCC Rule Part(s): §2; §22(H), §24(E)
IC Specification(s): RSS-132 Issue 2; RSS-133 Issue 5
EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module
Model(s): MC7750
Tx Frequency Range: 824.20 - 848.80MHz (Cell. GSM) / 1850.20 - 1909.80MHz (PCS GSM)
826.40 - 846.60MHz (Cell. WCDMA) / 1852.4 - 1907.6MHz (PCS WCDMA)
824.70 - 848.31MHz (Cell. CDMA) / 1851.25 - 1908.75MHz (PCS CDMA)
Max. RF Output Power: 32.60dBm (1.820W) (Cellular GSM), 29.54dBm (0.899W) (PCS GSM)
26.22dBm (0.419W) (EDGE850), 25.31dBm (0.340W) (EDGE1900)
23.42dBm (0.220W) (Cell. WCDMA), 22.61dBm (0.182W) (PCS WCDMA)
25.31dBm (0.340W) (Cell. CDMA), 25.28dBm (0.337W) (PCS CDMA)
Emission Designator(s): 241KGXW (Cellular GSM), 243KGXW (PCS GSM), 236KG7W (EDGE850), 240KG7W (EDGE1900), 4M14F9W (Cellular WCDMA), 4M17F9W (PCS WCDMA), 1M28F9W (Cellular CDMA), 1M28F9W (PCS CDMA)
Test Device Serial No.: *identical prototype* [S/N: MCDK2433]

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.

This revised Test Report (S/ N: 0Y1010261758.N7N-R2) supersedes and replaces the previously issued test report on the same subject EUT for the same type of testing as indicated. Please discard and destroy the previously issued test report (S/N: 0Y1010261758.N7N-R1) and dispose of it accordingly.

Grant Conditions: Power output listed is conducted.

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



Randy Ortanez
President

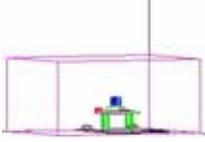


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T A B L E O F C O N T E N T S

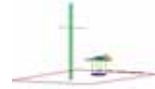
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MEASUREMENT REPORT

FCC Part 22 & 24



§2.1033 General Information



APPLICANT: Sanyo Fisher Company
APPLICANT ADDRESS: 13811 Wireless Way
 Richmond, Canada,
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22(H), §24(E)
BASE MODEL: MC7750
FCC ID: N7NMC7750
FCC CLASSIFICATION: PCS Licensed Transmitter (PCB)
EMISSION DESIGNATOR(S): 241KGXW (Cellular GSM), 243KGXW (PCS GSM)
 236KG7W (EDGE850), 240KG7W (EDGE1900)
 4M14F9W (Cellular WCDMA), 4M17F9W (PCS WCDMA)
 1M28F9W (Cellular CDMA), 1M28F9W (PCS CDMA)
MODE: GSM/EDGE/CDMA/WCDMA
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: MCDK2433 Production Pre-Production Engineering
DATE(S) OF TEST: Oct. 25 - Nov. 11, 2010
TEST REPORT S/N: 0Y1010261758.N7N-R2

Test Facility / Accreditations

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



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

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Testing Facility

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

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

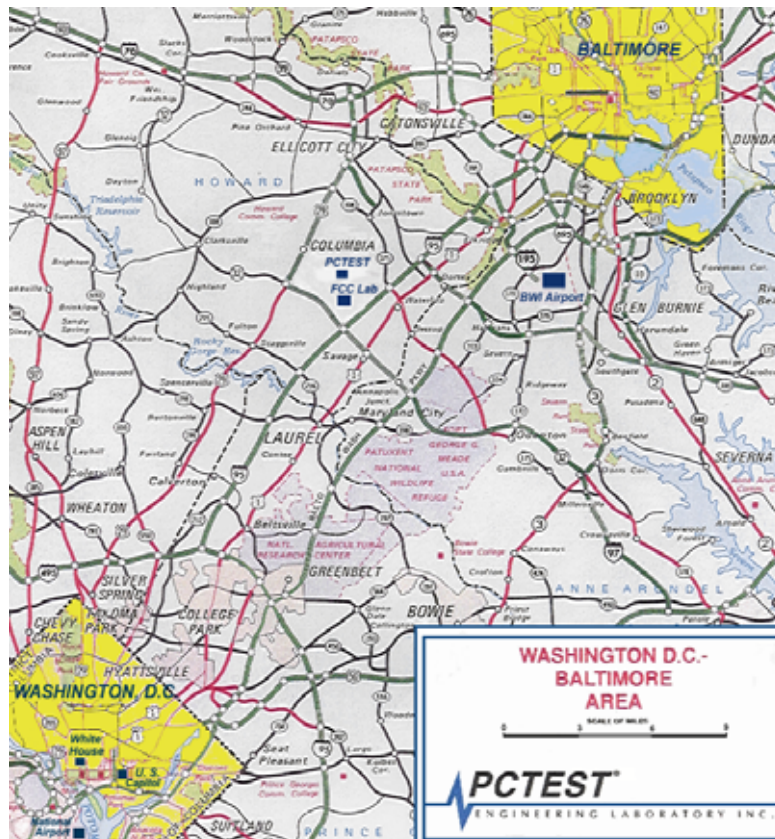




Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Sierra Wireless Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module FCC ID: N7NMC7750**. The EUT consisted of the following component(s):

Trade Name / Base Model	FCC ID	Description
Sierra Wireless / Model: MC7750	N7NMC7750	Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module

Table 2-1. EUT Equipment Description

Note: A monopole antenna was supplied as a proper termination to the RF antenna port and for allowing network connection during radiated spurious emissions testing.

2.2 EMI Suppression Device(s)/Modifications

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

2.3 Labeling Requirements

Per 2.925

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



Per 15.19; Docket 95-19

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

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

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

Please see attachment for FCC ID label and label location.

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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure 3-1). The equipment under test is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. This power level was recorded using a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This level is recorded with the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

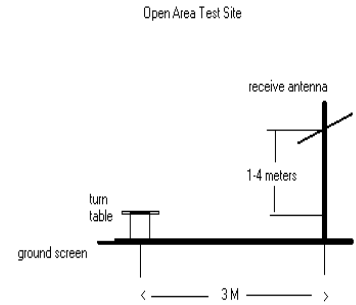


Figure 3-1. Diagram of 3-meter outdoor test range

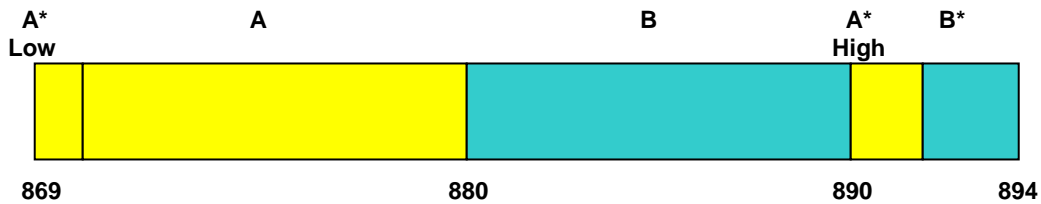
Deviation from Measurement Procedure.....None

3.2 Occupied Bandwidth

§2.1049, RSS-Gen (4.6.1)

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

3.3 Cellular - Base Frequency Blocks



BLOCK 1: 869 – 880 MHz (A* Low + A)

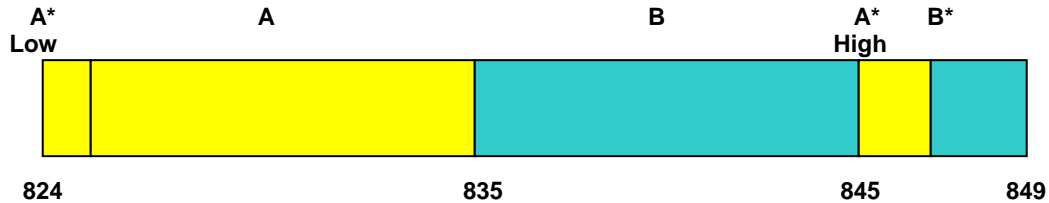
BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 2: 880 – 890 MHz (B)

BLOCK 4: 891.5 – 894 MHz (B*)

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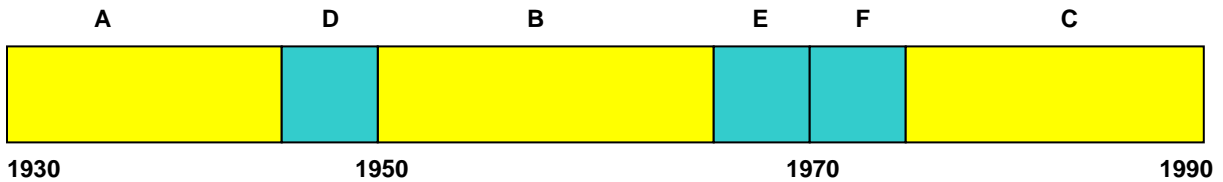
3.4 Cellular - Mobile Frequency Blocks



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*)

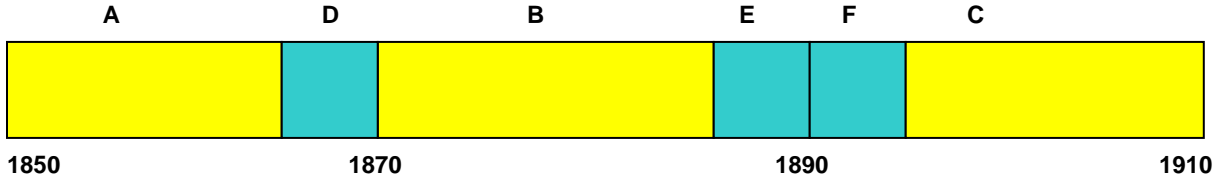
3.5 PCS - Base Frequency Blocks



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)

3.6 PCS - Mobile Frequency Blocks





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)

3.7 Spurious and Harmonic Emissions at Antenna Terminal

\$2.1051, 22.917(a), 24.238(a)(b); RSS-132 (4.5.1), RSS-133 (6.5.1)

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

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3.8 Radiated Power and Radiated Spurious Emissions

§2.1053, 22.917(a), 22.913(a), 24.232(c), 24.238(a); RSS-132 (4.5.1), RSS-133 (6.5.1)

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

For radiated power measurements below 1GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:



For radiated power measurements above 1GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

Radiated spurious emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration. 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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits.

3.9 Peak-Average Ratio

§24.232(d); RSS-133 (6.4)

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

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3.10 Frequency Stability / Temperature Variation

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



The frequency stability of the transmitter is measured by:

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

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

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A 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
-	263-10dB	(DC-18GHz) 10 dB Attenuator	N/A		N/A	N/A
-	No.166	(1000-26500MHz) Microwave RF Cable	N/A		N/A	N/A
-	No.167	(100kHz - 100MHz) RG58 Coax Cable	N/A		N/A	N/A
Agilent	11713A	Attenuation/Switch Driver	12/2/2009	Annual	12/2/2010	3439A02645
Agilent	8449B	(1-26.5GHz) Pre-Amplifier	12/2/2009	Annual	12/2/2010	3008A00985
Agilent	85650A	Quasi-Peak Adapter	12/2/2009	Annual	12/2/2010	3303A01872
Agilent	85650A	Quasi-Peak Adapter	3/30/2010	Annual	3/30/2011	2043A00301
Agilent	8566B	(100Hz-22GHz) Spectrum Analyzer	12/2/2009	Annual	12/2/2010	3638A08713
Agilent	8648D	(9kHz-4GHz) Signal Generator	10/11/2010	Annual	10/11/2011	3613A00315
Agilent	E4407B	ESA Spectrum Analyzer	3/30/2010	Annual	3/30/2011	US39210313
Agilent	E4448A	PSA (3Hz-50GHz) Spectrum Analyzer	10/11/2010	Annual	10/11/2011	US42510244
Agilent	E5515C	Wireless Communications Test Set	10/11/2010	Annual	10/11/2011	GB46110872
Agilent	E5515C	Wireless Communications Test Set	10/11/2010	Annual	10/11/2011	GB46310798
Agilent	E5515C	Wireless Communications Test Set	8/12/2010	Annual	8/12/2011	GB41450275
Agilent	E8257D	(250kHz-20GHz) Signal Generator	3/30/2010	Annual	3/30/2011	MY45470194
Agilent	E8267C	Vector Signal Generator	10/11/2010	Annual	10/11/2011	US42340152
Agilent	N9020A	MXA Signal Analyzer	9/8/2010	Annual	9/8/2011	US46470561
Anritsu	ML2495A	Power Meter	10/13/2010	Annual	10/13/2011	941001
Anritsu	MA2411B	Pulse Sensor	11/13/2010	Annual	11/13/2011	1027293
Compliance Design	Roberts	Dipole Set	4/7/2010	Biennial	4/7/2012	146
Compliance Design	Roberts	Dipole Set	4/7/2010	Biennial	4/7/2012	147
Emco	3115	Horn Antenna (1-18GHz)	10/14/2009	Biennial	10/14/2011	9704-5182
Emco	3115	Horn Antenna (1-18GHz)	4/8/2010	Biennial	4/8/2012	9205-3874
Espec	ESX-2CA	Environmental Chamber	4/1/2010	Annual	4/1/2011	17620
Gigatronics	80701A	(0.05-18GHz) Power Sensor	10/11/2010	Annual	10/11/2011	1833460
Gigatronics	8651A	Universal Power Meter	10/11/2010	Annual	10/11/2011	8650319
K & L	11SH10	Band Pass Filter	N/A	Annual	N/A	1300/4000
K & L	11SH10	Band Pass Filter	N/A	Annual	N/A	4000/12000
MiniCircuits	VHF-1300+	High Pass Filter	N/A		N/A	30716
MiniCircuits	VHF-3100+	High Pass Filter	N/A		N/A	30721
Pasternack	PE2208-6	Bidirectional Coupler	N/A		N/A	N/A
Rohde & Schwarz	CMU200	Base Station Simulator	6/21/2010	Annual	6/21/2011	833855/0010
Rohde & Schwarz	CMU200	Base Station Simulator	6/17/2010	Annual	6/17/2011	836536/0005
Rohde & Schwarz	FSQ 26	Spectrum Analyzer	8/28/2010	Annual	8/28/2011	200452
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	8/30/2010	Annual	8/30/2011	100976
Schwarzbeck	UHA9105	Dipole Antenna (400 - 1GHz) Rx	7/17/2009	Biennial	7/17/2011	9105-2404
Schwarzbeck	UHA9105	Dipole Antenna (400 - 1GHz) Tx	7/17/2009	Biennial	7/17/2011	9105-2403
Sunol	DRH-118	Horn Antenna (1 - 18GHz)	5/14/2009	Biennial	5/14/2011	A050307
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	7/17/2009	Biennial	7/17/2011	A051107

Table 4-1. Test Equipment

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 10 of 79

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)

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)

CDMA Emission Designator



Emission Designator = 1M27F9W

CDMA BW = 1.27 MHz
 F = Frequency Modulation
 9 = Composite Digital Info
 W = Combination (Audio/Data) (Measured at the 99.75% power bandwidth)

Spurious Radiated Emission - PCS Band

Example: GSM Channel 512 PCS Mode 2nd Harmonic (3700.40 MHz)

The average power meter 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 terminal is adjusted to produce a reading of -81.0 dBm on the power meter. 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 25.501 dBm so this harmonic was 25.501 dBm $- (-24.80) = 50.3$ dBc.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 11 of 79



6.0 TEST RESULTS

6.1 Summary

Company Name: Sanyo Fisher Company
 FCC ID: N7NMC7750
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): GSM/EDGE/CDMA/WCDMA

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)						
2.1049, 22.917(a), 24.238(a)	RSS-Gen (4.6.1) RSS-133 (2.3)	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 7.0
2.1051, 22.917(a), 24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Band Edge / Conducted Spurious Emissions	< 43 + log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions		PASS	Section 7.0
2.1046	RSS-133 (6.4)	Transmitter Conducted Output Power	N/A		PASS	RF Exposure Report
24.232(d)	RSS-132 (4.4) RSS-133 (4.1)	Peak-Average Ratio	< 13 dB		PASS	Section 7.0
2.1053, 22.917(a), 24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Undesirable Emissions	< 43 + log ₁₀ (P[Watts]) for all out-of-band emissions	RADIATED	PASS	Sections 6.2, 6.3, 6.4, 6.5, 6.6, 6.7
2.1055, 22.355, 24.235	RSS-132 (4.3) RSS-133 (6.3)	Frequency Stability	< 2.5 ppm		PASS	Sections 6.9, 6.10, 6.11, 6.12, 6.13, 6.14
RECEIVER MODE (RX) / DIGITAL EMISSIONS						
N/A	RSS-132 (4.6) RSS-133 (6.6)	Receiver Spurious Emissions Limits	< RSS-Gen limits [Section 6; Table 1]	RADIATED	PASS	Section 6.15

Table 6-1. Summary of Test Results

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 12 of 79

6.2 Output Power Measurement

§22.913(a)(2); RSS-132 (4.4) [SRSP-503(5.1.3)]

Band	Channel	SO55 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC	RC3	(RTAP)	(RETAP)
Cellular	1013	25.07	25.31	25.30
	384	25.09	25.28	25.28
	777	25.16	25.29	25.23
PCS	25	25.11	25.25	25.28
	600	24.96	24.71	24.63
	1175	25.03	25.24	25.27



Table 6-2. CDMA/EvDO Average Conducted Powers

		RF Conducted Power Table							
		GPRS Data				EDGE Data			
Band	Channel	GPRS [dBm]	GPRS [dBm]	GPRS [dBm]	GPRS [dBm]	EDGE [dBm]	EDGE [dBm]	EDGE [dBm]	EDGE [dBm]
		1 Tx Slot	2 Tx Slot	3 Tx Slot	4 Tx Slot	1 Tx Slot	2 Tx Slot	3 Tx Slot	4 Tx Slot
Cellular	128	32.47	31.59	28.97	25.27	26.09	25.94	25.68	25.62
	190	32.42	32.00	29.06	25.38	26.13	25.98	25.78	25.72
	251	32.60	31.85	29.21	25.32	26.22	26.07	25.87	25.81
PCS	512	29.03	28.64	28.31	28.46	25.02	24.91	24.57	24.61
	661	29.54	28.51	28.81	28.25	25.19	25.02	24.69	24.68
	810	29.47	29.06	28.59	28.77	25.31	24.92	24.78	24.76

Table 6-3. GPRS/EDGE Average Conducted Powers

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			PCS Band [dBm]		
			4132	4183	4233	9262	9400	9538
99	WCDMA	12.2 kbps RMC	23.38	23.42	23.08	22.59	22.61	22.32
99		12.2 kbps AMR	23.25	22.96	22.65	21.94	22.27	21.56
6	HSDPA	Subtest 1	23.10	23.16	22.88	21.78	21.87	21.75
6		Subtest 2	23.19	23.35	22.86	22.01	21.89	21.95
6		Subtest 3	22.69	22.77	22.40	21.47	21.36	21.38
6		Subtest 4	22.59	22.58	22.42	21.48	21.50	21.40
6	HSUPA	Subtest 1	23.22	22.52	22.97	21.54	21.52	21.84
6		Subtest 2	21.65	21.47	21.25	20.37	20.08	20.35
6		Subtest 3	21.72	21.72	21.44	20.74	20.60	20.42
6		Subtest 4	21.76	21.61	21.94	20.46	20.49	20.82
6		Subtest 5	22.65	22.57	22.85	21.71	21.21	21.48

Table 6-4. WCDMA/HSPA Average Conducted Powers

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 13 of 79

6.3 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
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1648.40	-54.73	6.42	-48.31	V	-35.3
2472.60	-53.99	6.74	-47.25	V	-34.3
3296.80	-60.85	7.55	-53.30	V	-40.3
4121.00	-93.25	7.56	-85.69	V	-72.7
4945.20	-92.87	9.05	-83.82	V	-70.8



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 14 of 79

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
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1673.20	-53.79	6.43	-47.37	V	-34.4
2509.80	-53.75	6.77	-46.98	V	-34.0
3346.40	-60.09	7.55	-52.54	V	-39.5
4183.00	-93.51	7.81	-85.70	V	-72.7
5019.60	-92.52	9.02	-83.50	V	-70.5



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 15 of 79

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
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1697.60	-53.23	6.44	-46.79	V	-33.8
2546.40	-54.14	6.83	-47.31	V	-34.3
3395.20	-59.79	7.55	-52.24	V	-39.2
4244.00	-93.76	8.06	-85.70	V	-72.7
5092.80	-92.06	8.91	-83.14	V	-70.1



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 16 of 79

6.4 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
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1652.80	-57.65	6.42	-51.23	V	-38.2
2479.20	-61.51	6.74	-54.76	V	-41.8
3305.60	-95.93	7.55	-88.38	V	-75.4
4132.00	-93.29	7.60	-85.69	V	-72.7
4958.40	-92.81	9.05	-83.76	V	-70.8



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 17 of 79

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
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1673.20	-59.22	6.42	-52.79	V	-39.8
2509.80	-61.79	6.76	-55.03	V	-42.0
3346.40	-95.82	7.55	-88.27	V	-75.3
4183.00	-93.47	7.78	-85.70	V	-72.7
5019.60	-92.58	9.04	-83.54	V	-70.5



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 18 of 79

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
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1693.20	-59.79	6.43	-53.36	V	-40.4
2539.80	-61.63	6.82	-54.81	V	-41.8
3386.40	-95.67	7.55	-88.12	V	-75.1
4233.00	-93.71	8.01	-85.70	V	-72.7
5079.60	-92.14	8.93	-83.20	V	-70.2



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 19 of 79

6.5 Cellular CDMA Radiated Measurements

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1649.40	-56.87	6.42	-50.45	V	-37.4
2474.10	-56.43	6.74	-49.69	V	-36.7
3298.80	-60.24	7.55	-52.69	V	-39.7
4123.50	-93.26	7.57	-85.69	V	-72.7
4948.20	-92.85	9.05	-83.80	V	-70.8



Table 6-11. Radiated Spurious Data (Cellular CDMA Mode – Ch. 1013)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

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Cellular CDMA Radiated Measurements (Cont'd)
§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.52 MHz
 CHANNEL: 384
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1673.04	-55.66	6.43	-49.24	V	-36.2
2509.56	-58.69	6.77	-51.92	V	-38.9
3346.08	-60.24	7.55	-52.69	V	-39.7
4182.60	-93.51	7.81	-85.70	V	-72.7
5019.12	-92.52	9.02	-83.50	V	-70.5



Table 6-12. Radiated Spurious Data (Cellular CDMA Mode – Ch. 384)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 21 of 79

Cellular CDMA Radiated Measurements (Cont'd)
§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 777
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
1696.62	-57.11	6.44	-50.68	V	-37.7
2544.93	-58.11	6.83	-51.28	V	-38.3
3393.24	-59.75	7.55	-52.20	V	-39.2
4241.55	-93.75	8.05	-85.70	V	-72.7
5089.86	-92.07	8.92	-83.15	V	-70.2



Table 6-13. Radiated Spurious Data (Cellular CDMA Mode – Ch. 777)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.6 PCS GSM Radiated Measurements

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3700.40	-57.61	9.49	-48.12	V	-35.1
5550.60	-90.94	10.41	-80.53	V	-67.5
7400.80	-88.58	11.08	-77.50	V	-64.5
9251.00	-87.31	12.26	-75.04	V	-62.0
11101.20	-85.54	13.19	-72.35	V	-59.4



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS GSM Radiated Measurements (Cont'd)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 661
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3760.00	-57.37	9.43	-47.94	V	-34.9
5640.00	-90.41	10.24	-80.17	V	-67.2
7520.00	-88.48	11.12	-77.36	V	-64.4
9400.00	-87.50	12.32	-75.18	V	-62.2
11280.00	-84.83	13.17	-71.66	V	-58.7



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS GSM Radiated Measurements (Cont'd)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1909.80 MHz
 CHANNEL: 810
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3819.60	-56.74	9.37	-47.36	V	-34.4
5729.40	-89.89	10.08	-79.81	V	-66.8
7639.20	-88.45	11.21	-77.24	V	-64.2
9549.00	-87.55	12.38	-75.17	V	-62.2
11458.80	-84.13	13.15	-70.97	V	-58.0



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 25 of 79

6.7 PCS WCDMA Radiated Measurements

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3704.80	-55.56	9.49	-46.08	V	-33.1
5557.20	-90.90	10.39	-80.51	V	-67.5
7409.60	-88.57	11.08	-77.49	V	-64.5
9262.00	-87.32	12.27	-75.05	V	-62.1
11114.40	-85.49	13.19	-72.30	V	-59.3



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS WCDMA Radiated Measurements (Cont'd)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 9400
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3760.00	-54.18	9.43	-44.75	V	-31.7
5640.00	-90.41	10.24	-80.17	V	-67.2
7520.00	-88.48	11.12	-77.36	V	-64.4
9400.00	-87.50	12.32	-75.18	V	-62.2
11280.00	-84.83	13.17	-71.66	V	-58.7



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS WCDMA Radiated Measurements (Cont'd)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1907.60 MHz
 CHANNEL: 9538
 MODULATION SIGNAL: WCDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3815.20	-54.54	9.38	-45.17	V	-32.2
5722.80	-89.93	10.09	-79.84	V	-66.8
7630.40	-88.45	11.21	-77.25	V	-64.2
9538.00	-87.57	12.37	-75.19	V	-62.2
11445.60	-84.18	13.16	-71.02	V	-58.0



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

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

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6.8 PCS CDMA Radiated Measurements

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1851.25 MHz
 CHANNEL: 25
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3702.50	-45.45	9.49	-35.96	V	-23.0
5553.75	-54.16	10.40	-43.76	V	-30.8
7405.00	-88.58	11.08	-77.49	V	-64.5
9256.25	-87.31	12.26	-75.05	V	-62.0
11107.50	-85.52	13.19	-72.33	V	-59.3



Table 6-20. Radiated Spurious Data (PCS CDMA Mode – Ch. 25)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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PCS CDMA Radiated Measurements (Cont'd)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 600
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3760.00	-48.47	9.43	-39.04	V	-26.0
5640.00	-54.12	10.24	-43.88	V	-30.9
7520.00	-88.48	11.12	-77.36	V	-64.4
9400.00	-87.50	12.32	-75.18	V	-62.2
11280.00	-84.83	13.17	-71.66	V	-58.7



Table 6-21. Radiated Spurious Data (PCS CDMA Mode – Ch. 600)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 30 of 79

PCS CDMA Radiated Measurements (Cont'd)
§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1908.75 MHz
 CHANNEL: 1175
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	SPURIOUS EMISSION LEVEL (dBm)	POL (H/V)	MARGIN (dB)
3817.50	-47.36	9.37	-37.98	V	-25.0
5726.25	-53.24	10.08	-43.15	V	-30.2
7635.00	-88.45	11.21	-77.24	V	-64.2
9543.75	-87.56	12.38	-75.18	V	-62.2
11452.50	-84.15	13.15	-71.00	V	-58.0



Table 6-22. Radiated Spurious Data (PCS CDMA Mode – Ch. 1175)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. Final power measurements are made with a broadband average power meter. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. This spurious level is recorded using the power meter. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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" and in GPRS mode while transmitting with one slot active. In CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. This unit was tested with its standard battery. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case test configuration was found having module in the horizontal position with antenna, connected to the Rx/Tx port, in vertical position. The data reported in the table above was measured in this test setup.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 31 of 79

6.9 Cellular GSM Frequency Stability Measurements

§2.1055, 22.355; RSS-132 (4.3)

OPERATING FREQUENCY: 836,600,000 Hz



CHANNEL: 190

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	836,600,004	4	0.000000
100 %		- 30	836,600,007	7	0.000001
100 %		- 20	836,600,011	11	0.000001
100 %		- 10	836,599,996	-4	0.000000
100 %		0	836,599,995	-5	-0.000001
100 %		+ 10	836,600,002	2	0.000000
100 %		+ 20	836,599,994	-6	-0.000001
100 %		+ 30	836,600,011	11	0.000001
100 %		+ 40	836,600,021	21	0.000003
100 %		+ 50	836,600,004	4	0.000000
115 %	5.75	+ 20	836,599,994	-6	-0.000001
85 %	4.25	+ 20	836,599,992	-8	-0.000001

Table 6-23. Frequency Stability Data (Cellular GSM Mode – Ch. 190)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 32 of 79

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

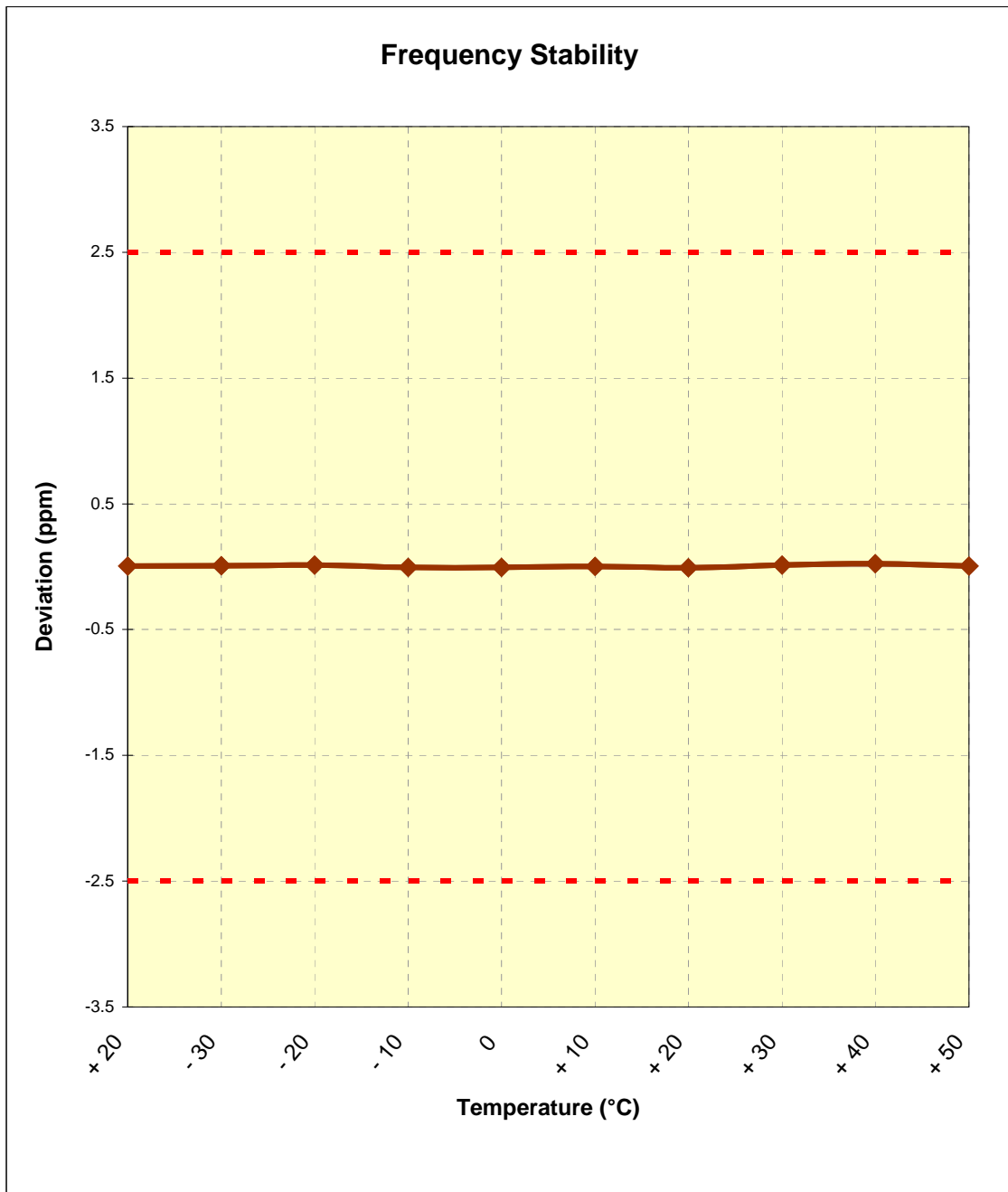




Figure 6-1. Frequency Stability Graph (Cellular GSM Mode – Ch. 190)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 33 of 79

6.10 Cellular WCDMA Frequency Stability Measurements

§2.1055, 22.355; RSS-132 (4.3)

OPERATING FREQUENCY: 836,600,000 Hz



CHANNEL: 4183

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	836,599,993	-7	-0.000001
100 %		- 30	836,600,004	4	0.000000
100 %		- 20	836,600,012	12	0.000001
100 %		- 10	836,600,004	4	0.000000
100 %		0	836,600,005	5	0.000001
100 %		+ 10	836,600,002	2	0.000000
100 %		+ 20	836,600,013	13	0.000002
100 %		+ 30	836,600,024	24	0.000003
100 %		+ 40	836,600,025	25	0.000003
100 %		+ 50	836,600,002	2	0.000000
115 %	5.75	+ 20	836,600,004	4	0.000000
85 %	4.25	+ 20	836,600,003	3	0.000000

Table 6-24. Frequency Stability Data (Cellular WCDMA Mode – Ch. 4183)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 34 of 79

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

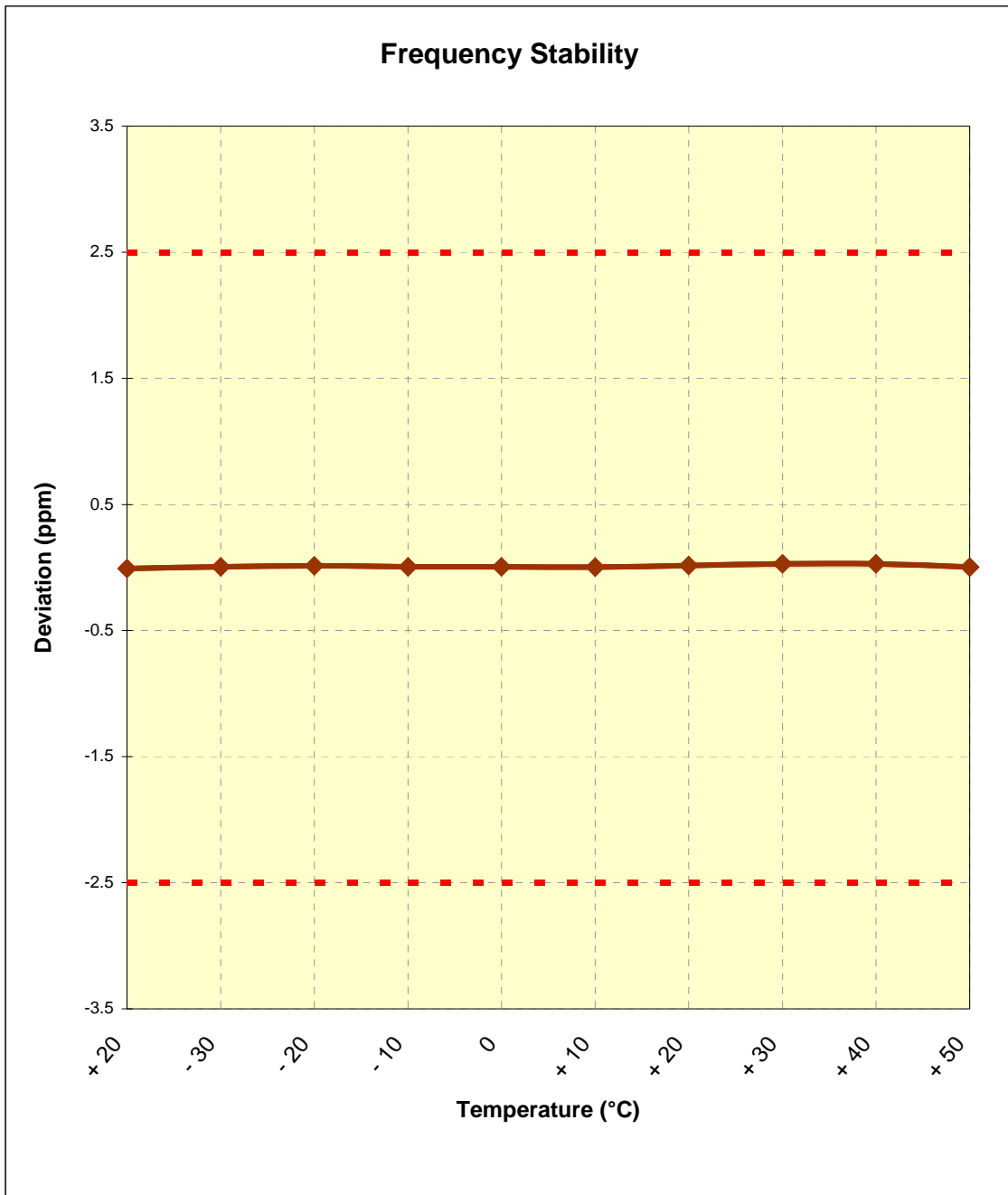




Figure 6-2. Frequency Stability Graph (Cellular WCDMA Mode – Ch. 4183)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 35 of 79

6.11 Cellular CDMA Frequency Stability Measurements

§2.1055, 22.355; RSS-132 (4.3)

OPERATING FREQUENCY: 836,520,000 Hz



CHANNEL: 384

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	836,520,006	6	0.000001
100 %		- 30	836,519,999	-1	0.000000
100 %		- 20	836,520,020	20	0.000002
100 %		- 10	836,520,012	12	0.000001
100 %		0	836,520,004	4	0.000000
100 %		+ 10	836,519,994	-6	-0.000001
100 %		+ 20	836,519,986	-14	-0.000002
100 %		+ 30	836,519,995	-5	-0.000001
100 %		+ 40	836,519,987	-13	-0.000002
100 %		+ 50	836,520,002	2	0.000000
115 %		5.75	+ 20	836,520,023	23
85 %	4.25	+ 20	836,520,013	13	0.000002

Table 6-25. Frequency Stability Data (Cellular CDMA Mode – Ch. 384)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 36 of 79

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

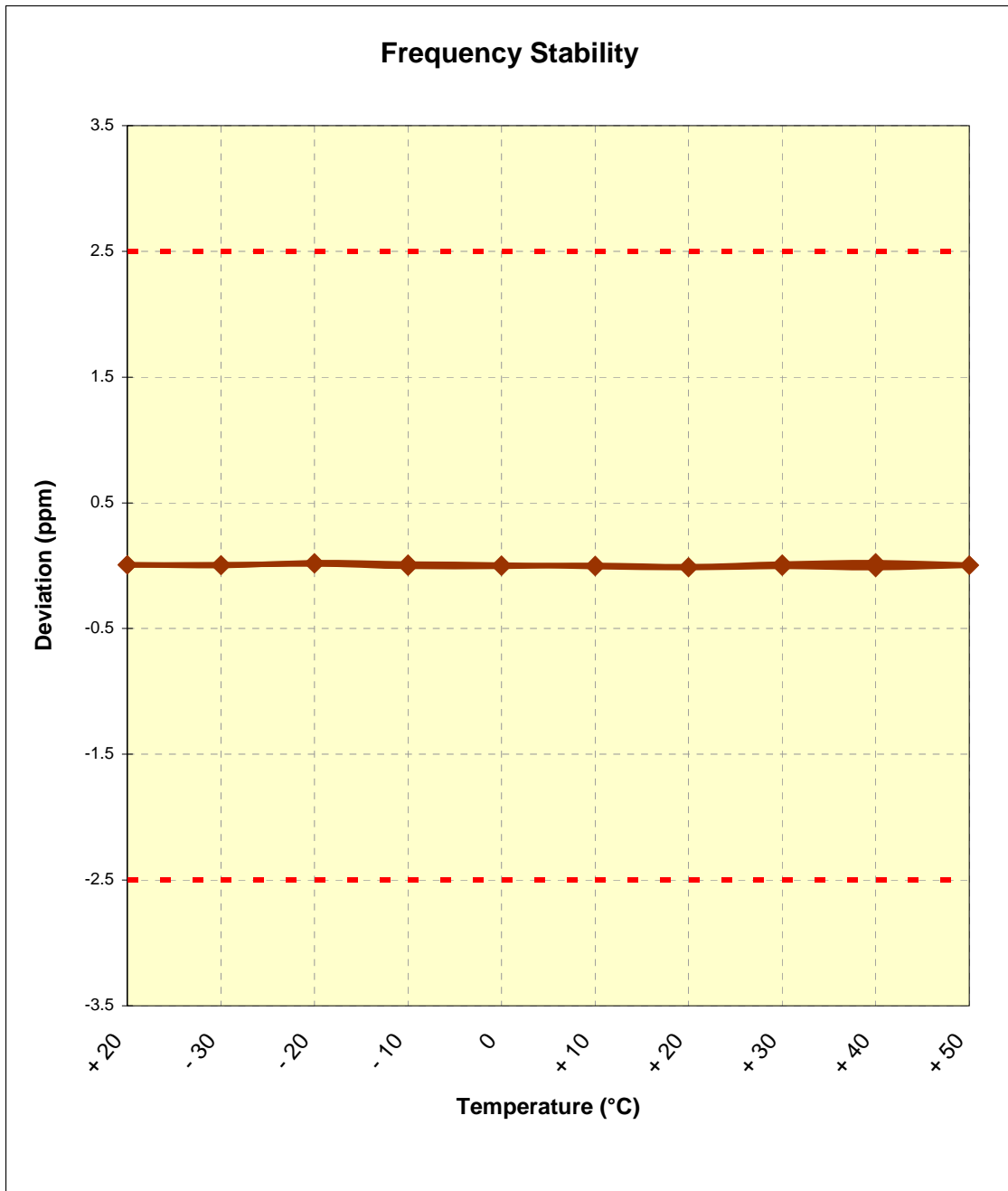




Figure 6-3. Frequency Stability Graph (Cellular CDMA Mode – Ch. 384)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 37 of 79

6.12 PCS GSM Frequency Stability Measurements

§2.1055, 24.235; RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz



CHANNEL: 661

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	1,880,000,006	6	0.000000
100 %		- 30	1,879,999,997	-3	0.000000
100 %		- 20	1,880,000,012	12	0.000001
100 %		- 10	1,879,999,987	-13	-0.000001
100 %		0	1,880,000,004	4	0.000000
100 %		+ 10	1,879,999,988	-12	-0.000001
100 %		+ 20	1,879,999,992	-8	0.000000
100 %		+ 30	1,880,000,005	5	0.000000
100 %		+ 40	1,880,000,014	14	0.000001
100 %		+ 50	1,879,999,994	-6	0.000000
115 %	5.75	+ 20	1,879,999,999	-1	0.000000
85 %	4.25	+ 20	1,879,999,997	-3	0.000000

Table 6-26. Frequency Stability Data (PCS GSM Mode – Ch. 661)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 38 of 79

PCS GSM Frequency Stability Measurements (Cont'd)
§2.1055, 24.235; RSS-133 (6.3)

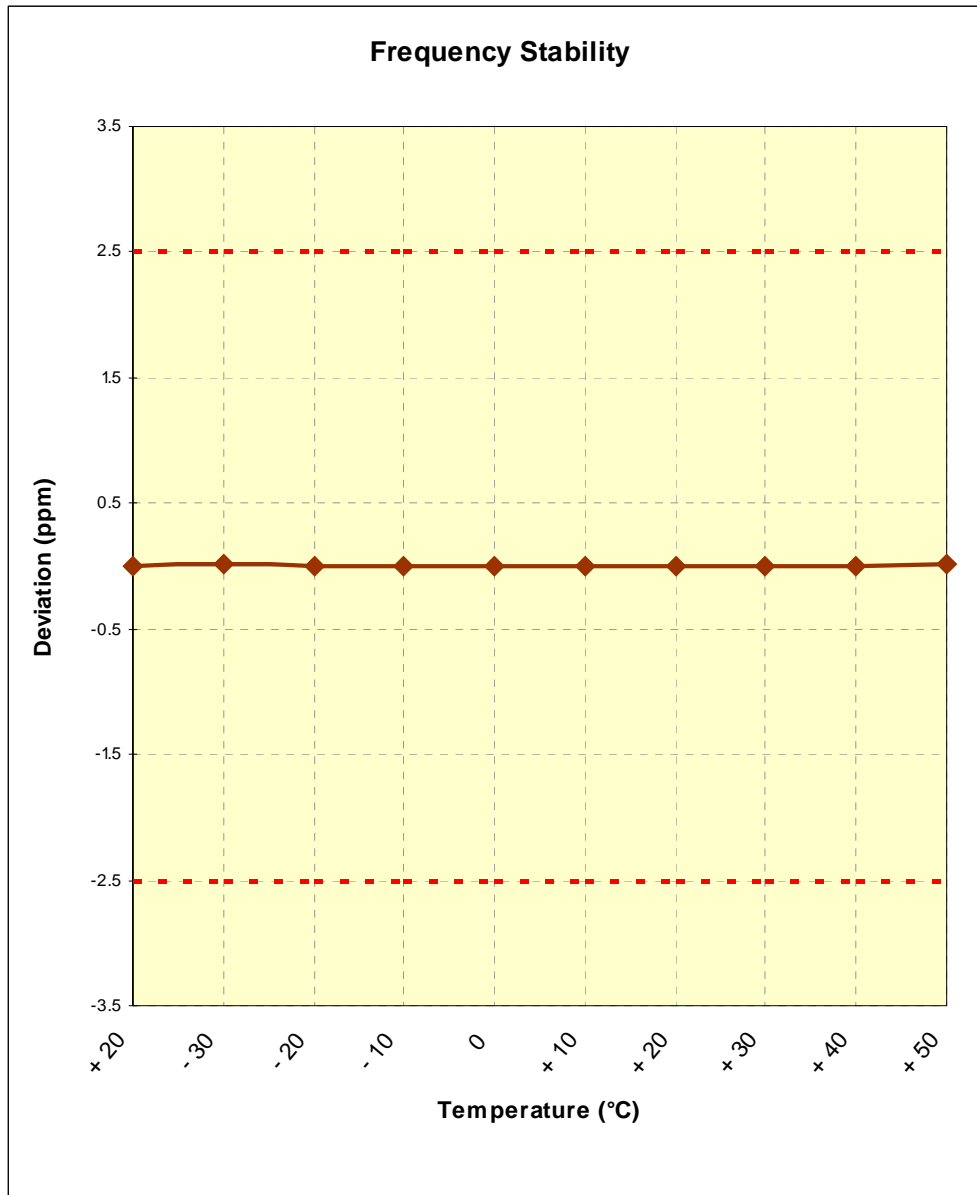




Figure 6-4. Frequency Stability Graph (PCS GSM Mode – Ch. 661)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 39 of 79

6.13 PCS WCDMA Frequency Stability Measurements

§2.1055, 24.235; RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz



CHANNEL: 9400

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	1,880,000,013	13	0.000001
100 %		- 30	1,880,000,017	17	0.000001
100 %		- 20	1,880,000,002	2	0.000000
100 %		- 10	1,880,000,006	6	0.000000
100 %		0	1,879,999,995	-5	0.000000
100 %		+ 10	1,879,999,997	-3	0.000000
100 %		+ 20	1,879,999,988	-12	-0.000001
100 %		+ 30	1,880,000,004	4	0.000000
100 %		+ 40	1,880,000,007	7	0.000000
100 %		+ 50	1,880,000,018	18	0.000001
115 %		5.75	+ 20	1,880,000,004	4
85 %	4.25	+ 20	1,880,000,007	7	0.000000

Table 6-27. Frequency Stability Data (PCS WCDMA Mode – Ch. 9400)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 40 of 79

PCS WCDMA Frequency Stability Measurements (Cont'd)
§2.1055, 24.235; RSS-133 (6.3)

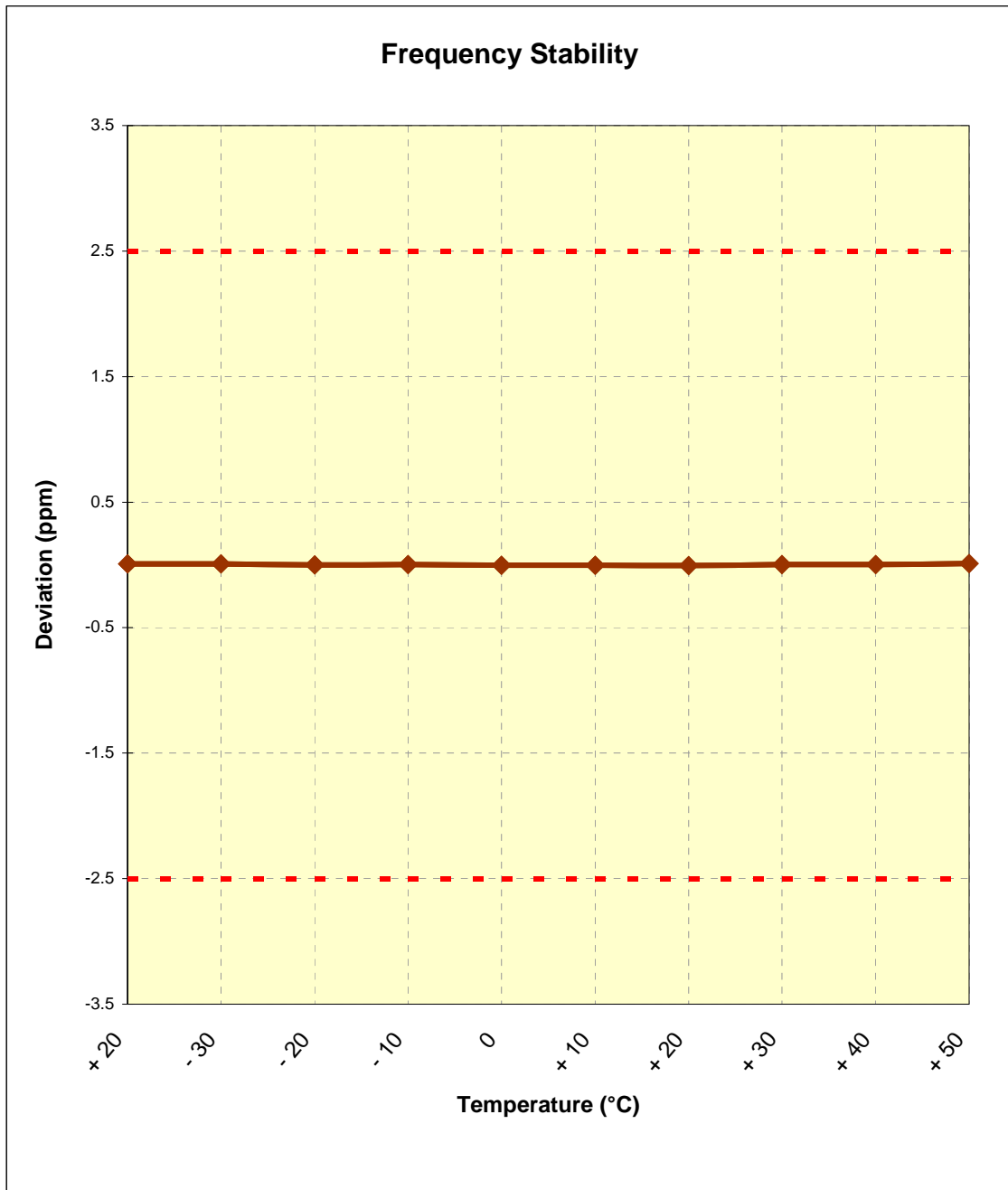




Figure 6-5. Frequency Stability Graph (PCS WCDMA Mode – Ch. 9400)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 41 of 79

6.14 PCS CDMA Frequency Stability Measurements

§2.1055, 24.235; RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz



CHANNEL: 600

REFERENCE VOLTAGE: 5 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	5.00	+ 20 (Ref)	1,880,000,004	4	0.000000
100 %		- 30	1,880,000,007	7	0.000000
100 %		- 20	1,880,000,012	12	0.000001
100 %		- 10	1,880,000,023	23	0.000001
100 %		0	1,880,000,027	27	0.000001
100 %		+ 10	1,880,000,011	11	0.000001
100 %		+ 20	1,880,000,014	14	0.000001
100 %		+ 30	1,879,999,995	-5	0.000000
100 %		+ 40	1,879,999,992	-8	0.000000
100 %		+ 50	1,879,999,999	-1	0.000000
115 %		5.75	+ 20	1,880,000,005	5
85 %	4.25	+ 20	1,880,000,009	9	0.000000

Table 6-28. Frequency Stability Data (PCS CDMA Mode – Ch. 600)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 42 of 79

PCS CDMA Frequency Stability Measurements (Cont'd)
§2.1055, 24.235; RSS-133 (6.3)

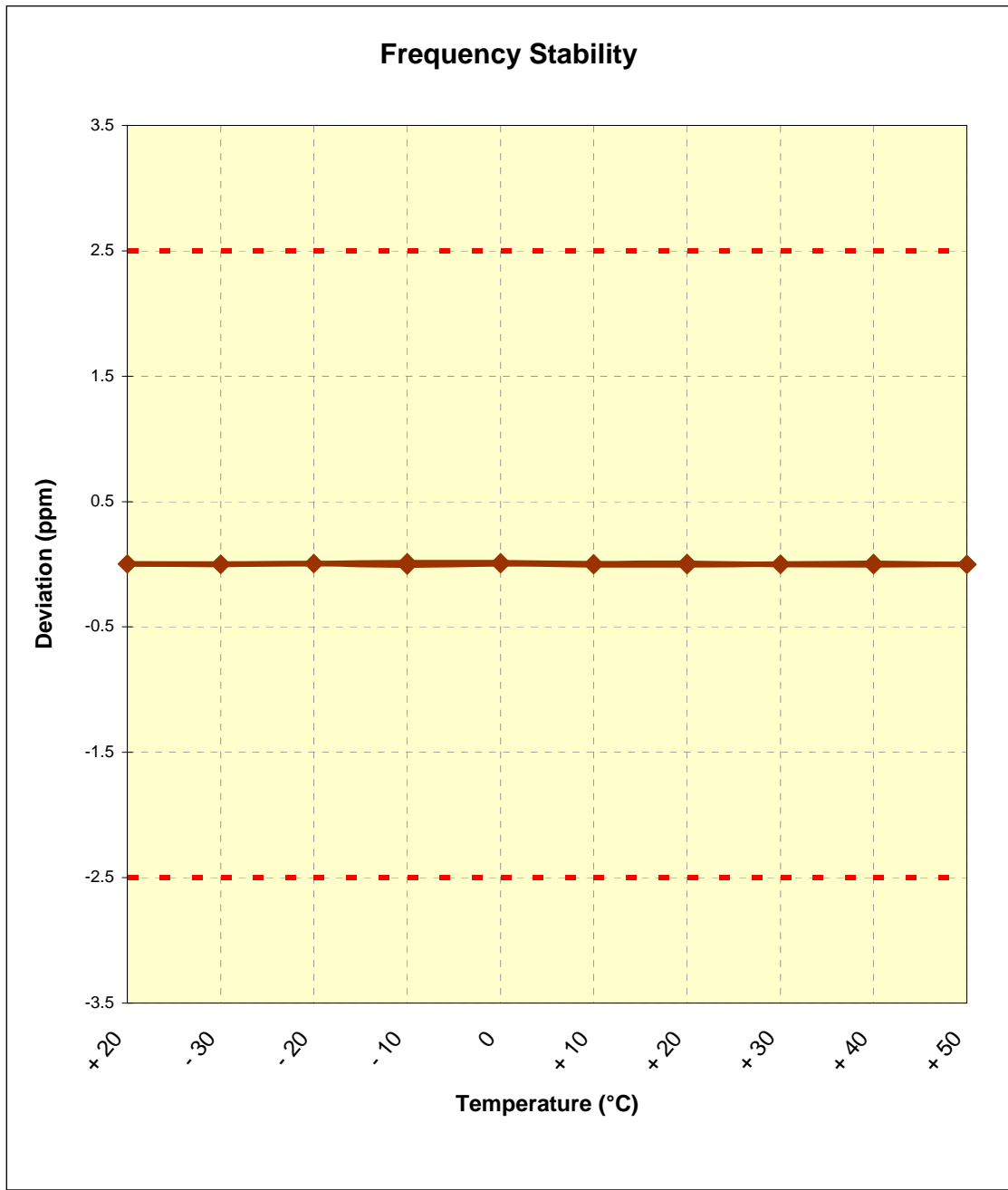




Figure 6-6. Frequency Stability Graph (PCS CDMA Mode – Ch. 600)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 43 of 79

6.15 Receiver Spurious Emissions

RSS-132 (4.6), RSS-133 (6.6)

Frequency [MHz]	Level [dBm]	AFCL [dB]	PoI [H/V]	Height [m]	Azimuth [degrees]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
65.37	-83.89	11.67	V	1.5	315	34.78	40.00	-5.22
194.90	-92.76	12.19	V	1.8	240	26.43	43.52	-17.09
258.10	-95.13	11.21	V	1.7	25	23.08	46.02	-22.94
386.50	-94.12	14.56	H	1.7	35	27.44	46.02	-18.58
459.20	-93.76	17.13	V	2.3	40	30.37	46.02	-15.65
517.40	-97.84	23.24	V	2.5	95	32.40	46.02	-13.62

Table 6-29. Radiated Measurements at 3-meters

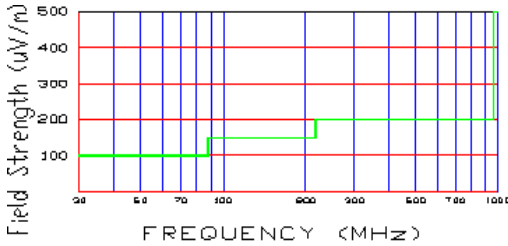




Figure 6-7. 3-Meter Limits

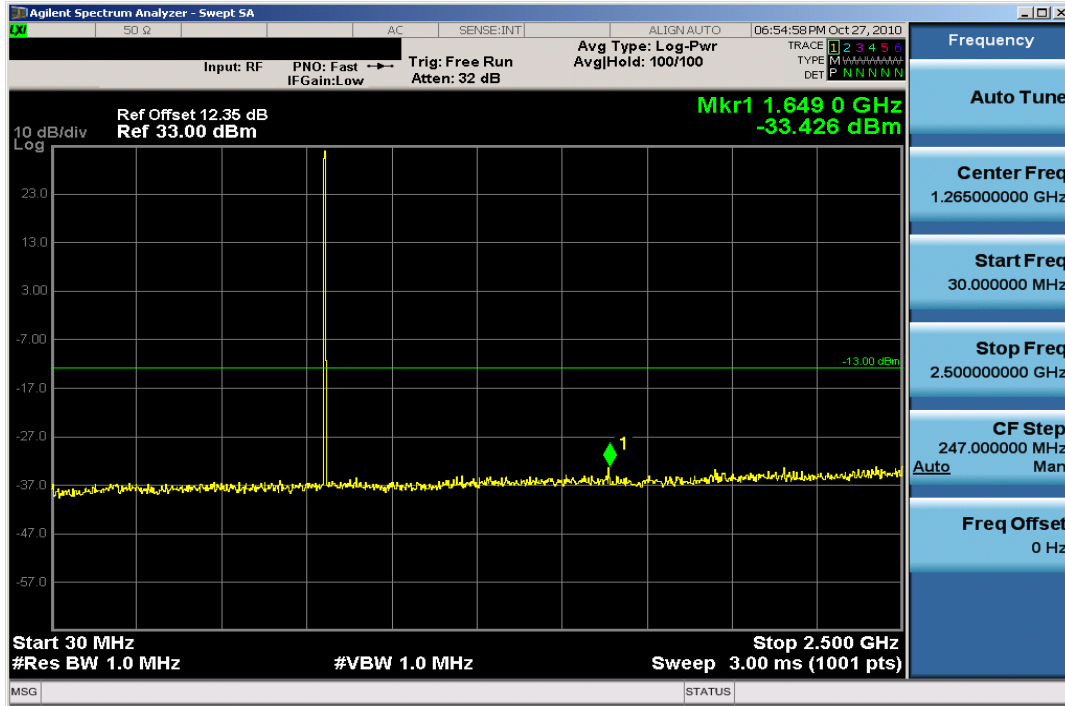
NOTES:

1. All modes of operation were investigated and the worst-case emissions are reported.
2. The EUT was set to receive mode in the middle channel of operation.
3. Radiated emissions were measured from 30MHz to three times that of the highest tunable frequency or local oscillator.
4. The radiated limits are shown on Figure 6-7. Above 960MHz the limit is 500 μ V/m.

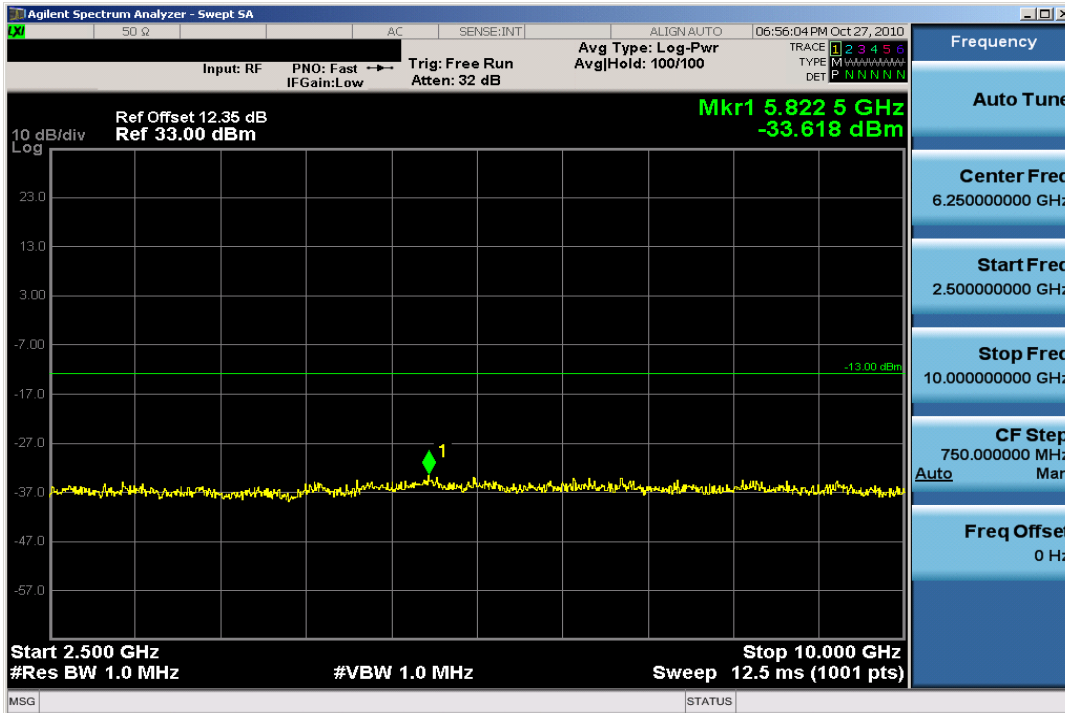
1. All readings are calibrated by a Signal Generator with accuracy traceable to the National Institute of Standards and Technology (NIST).
2. AFCL = Antenna Factor and Cable Loss
3. Measurements are made using CISPR quasi-peak mode. Average measurements are recorded above 1GHz.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 44 of 79

7.0 PLOTS OF EMISSIONS

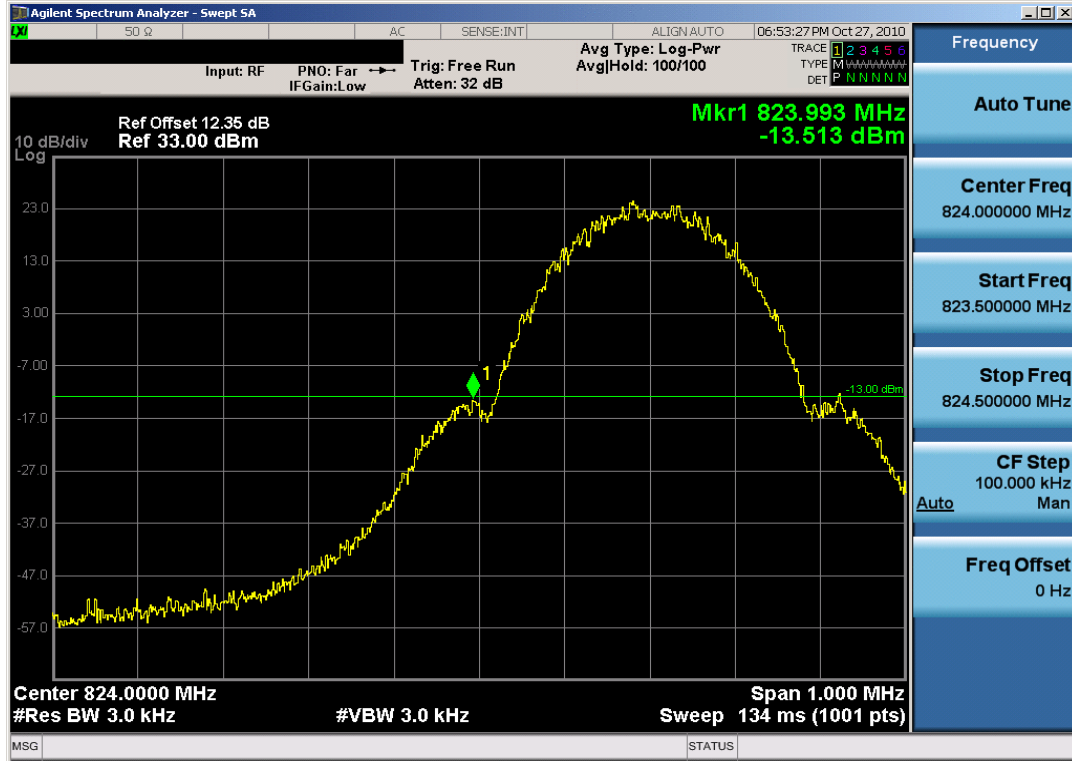


Plot 7-1. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

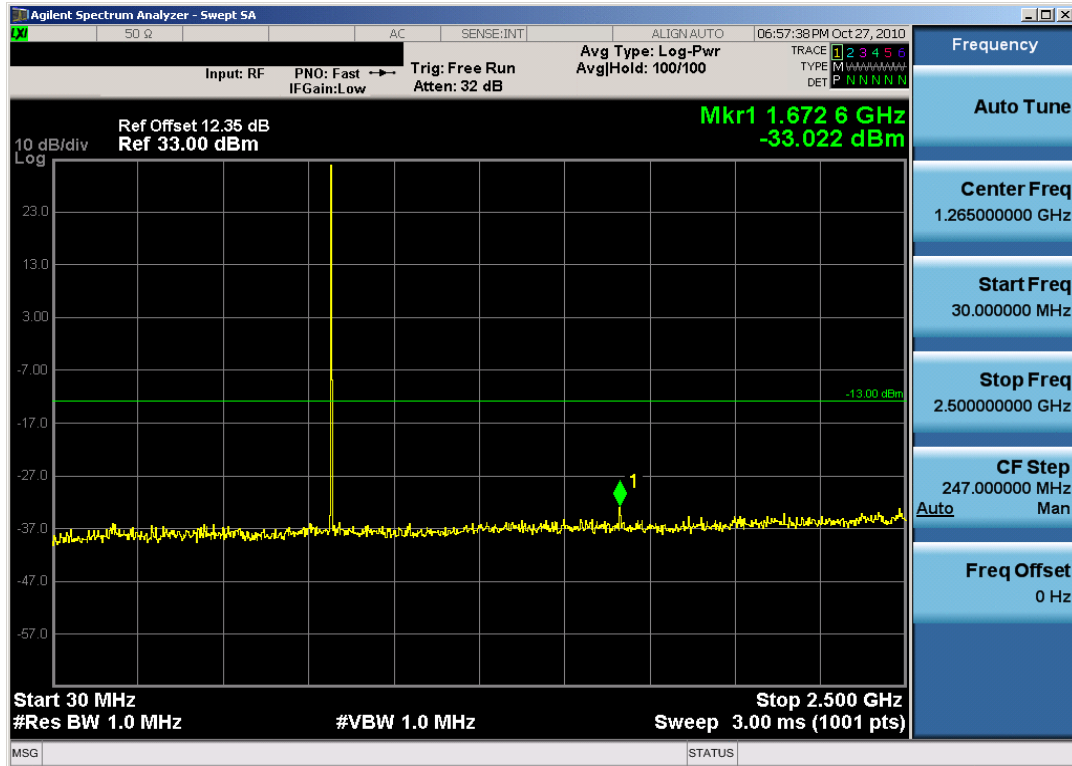


Plot 7-2. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 45 of 79

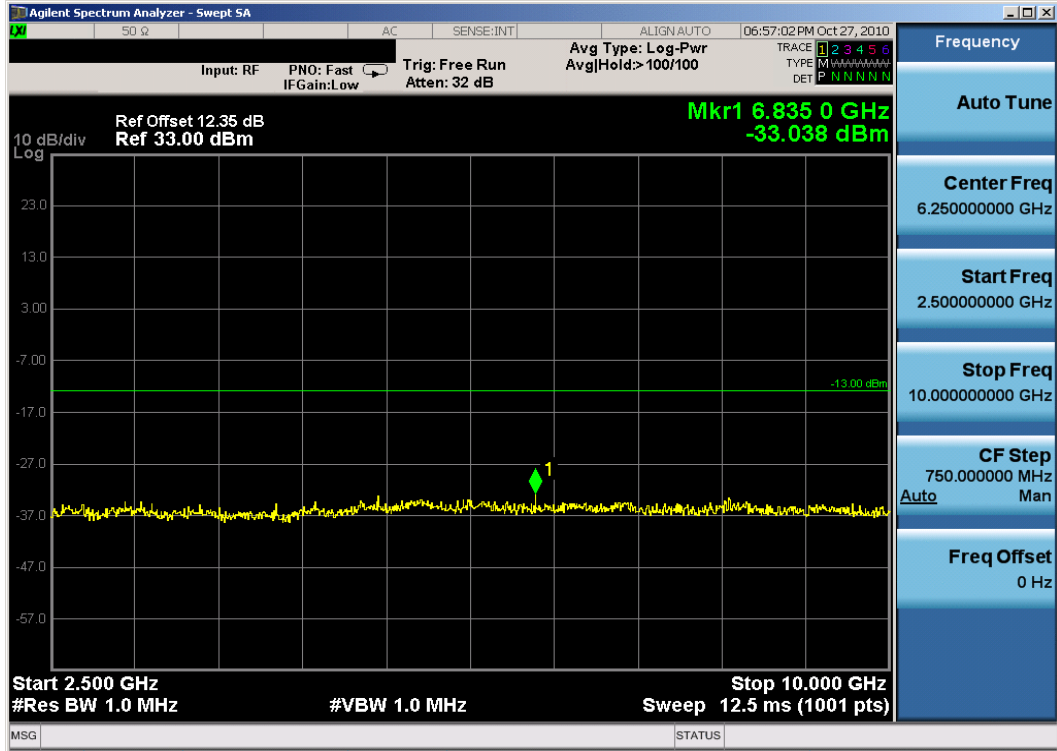


Plot 7-3. Band Edge Plot (Cellular GSM Mode – Ch. 128)

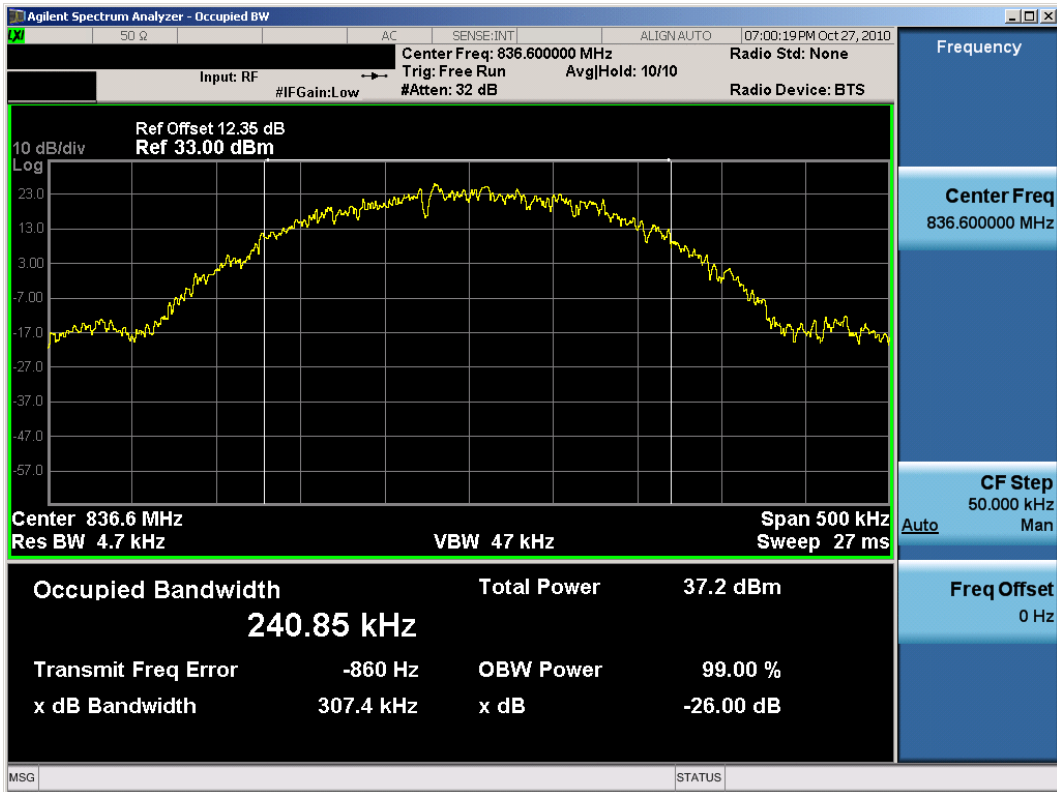


Plot 7-4. Conducted Spurious (Cellular GSM Mode – Ch. 190)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 46 of 79

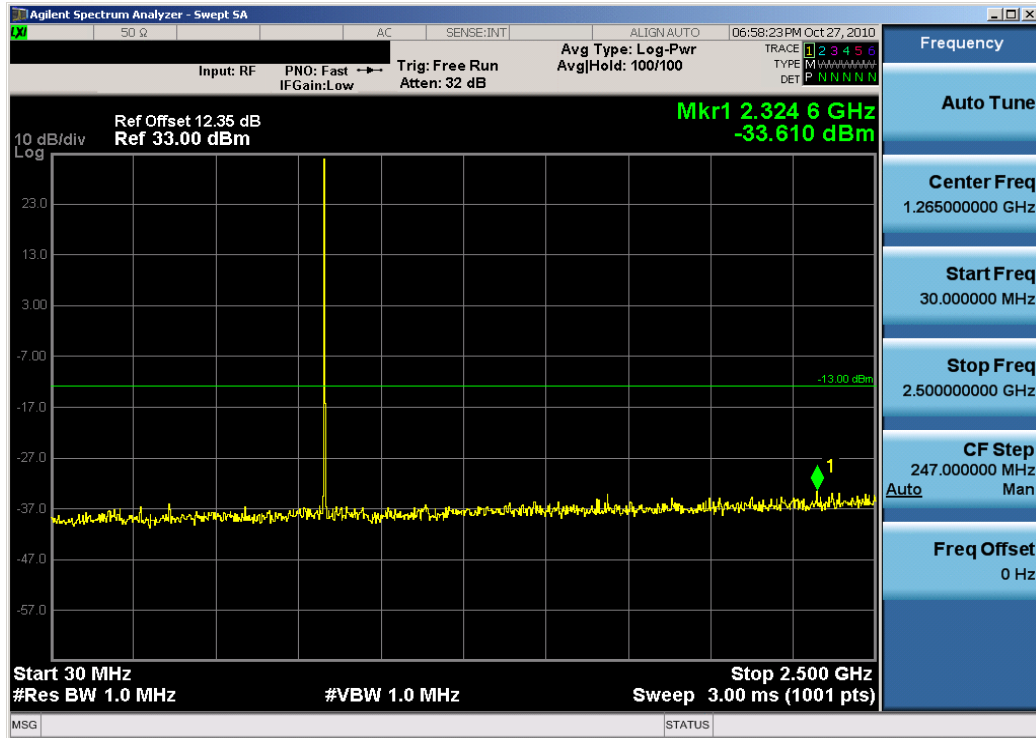


Plot 7-5. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

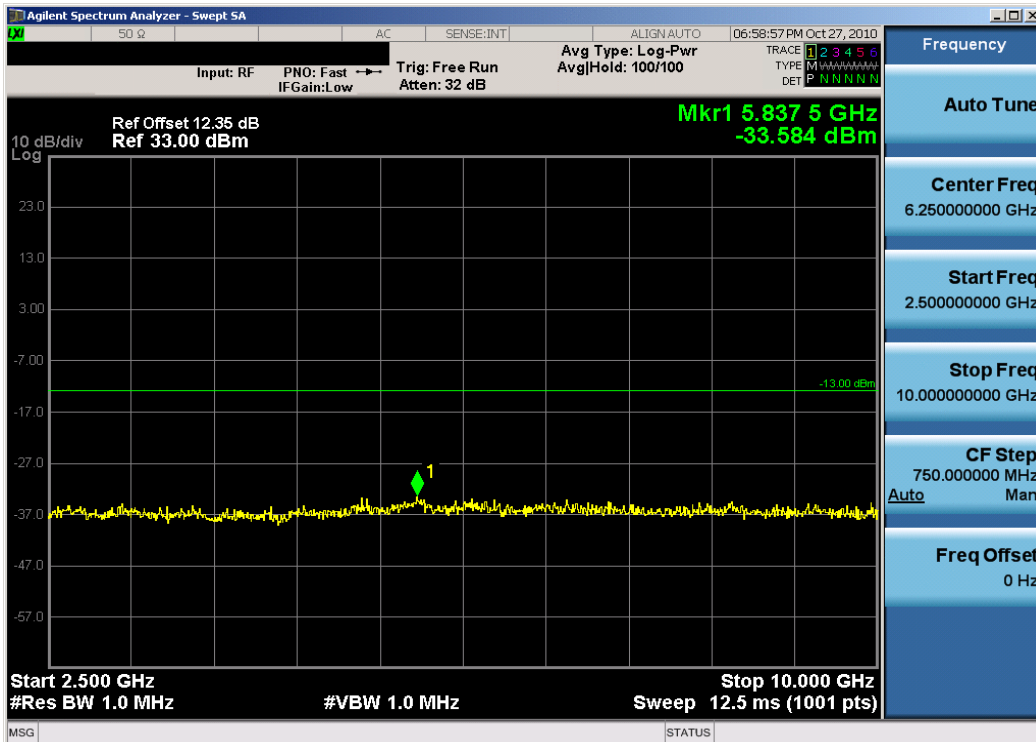


Plot 7-6. Occupied Bandwidth Plot (Cellular GSM Mode – Ch. 190)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 47 of 79

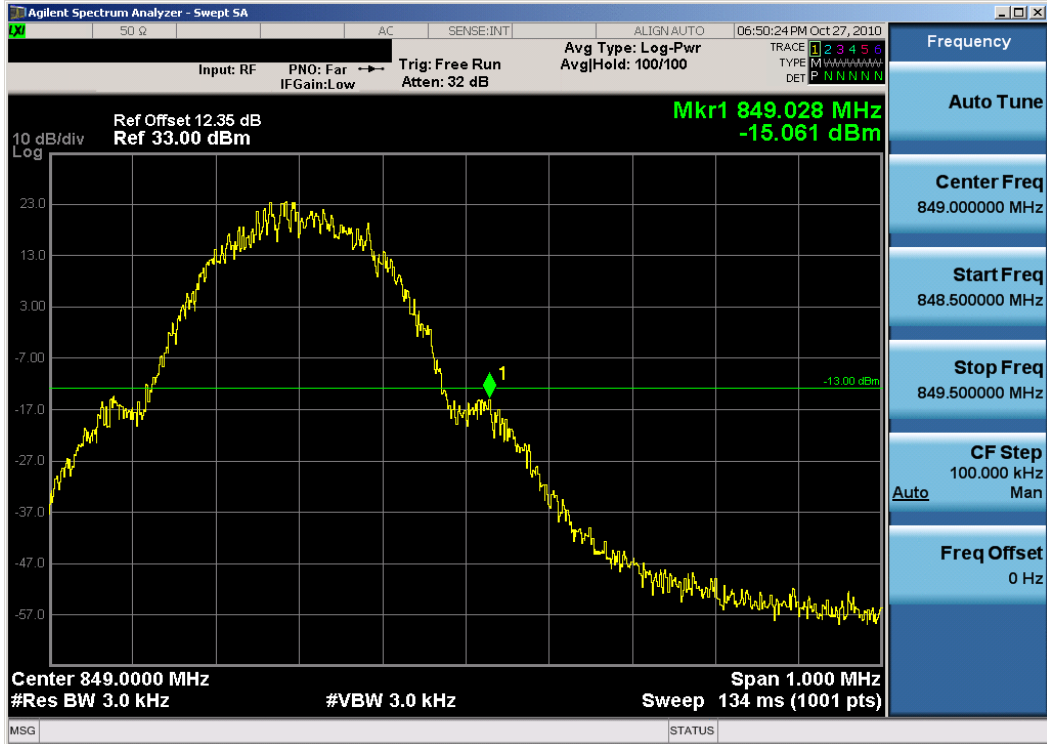


Plot 7-7. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

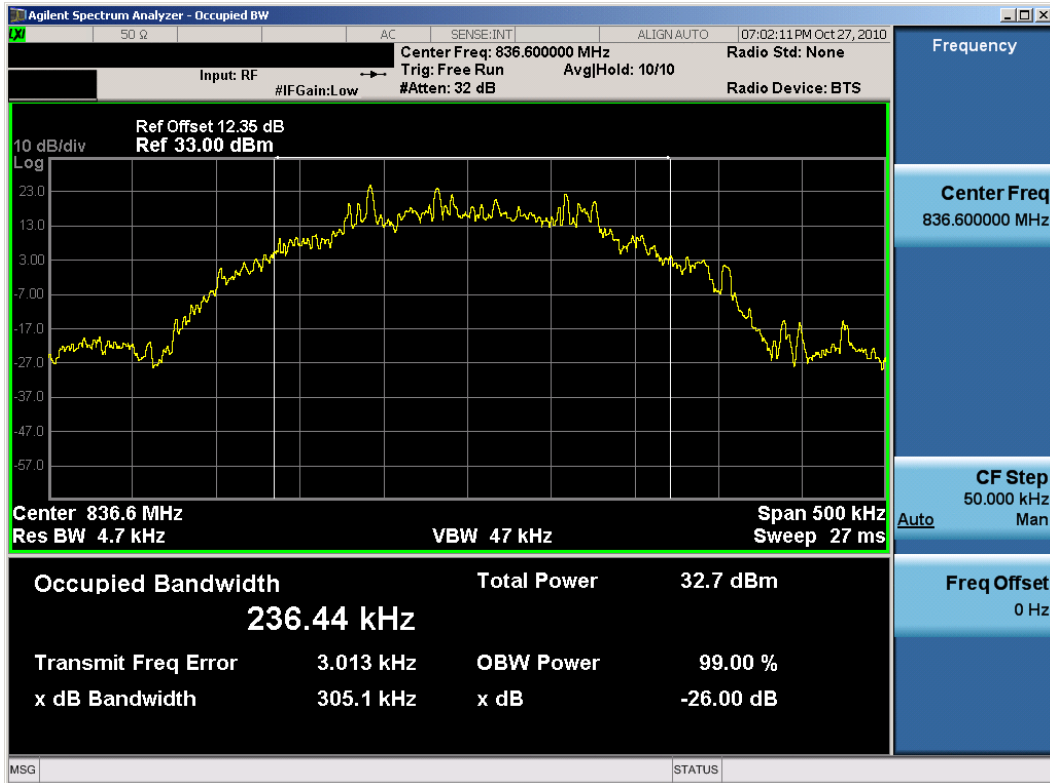


Plot 7-8. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 48 of 79

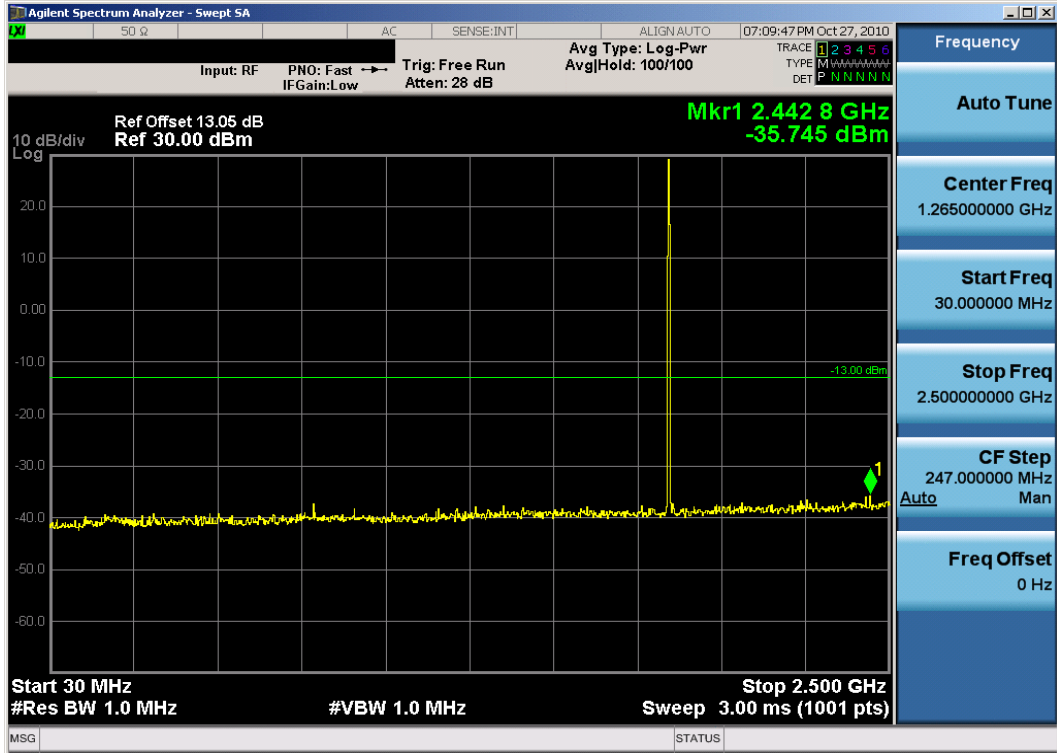


Plot 7-9. Band Edge Plot (Cellular GSM Mode – Ch. 251)

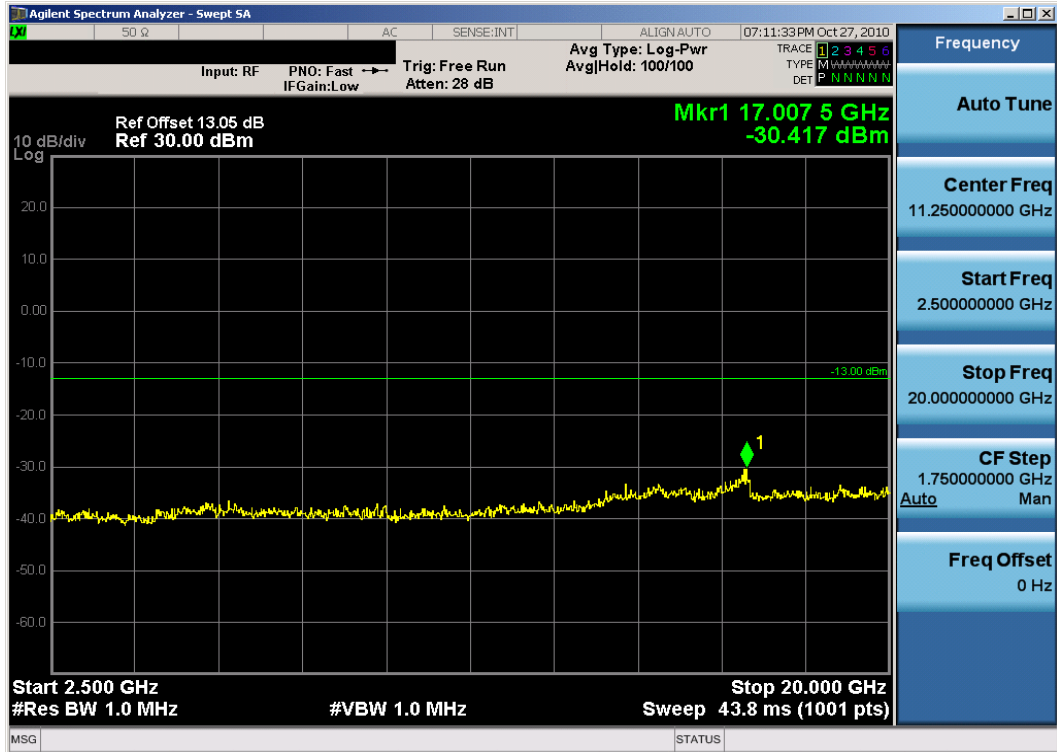


Plot 7-10. Occupied Bandwidth Plot (EDGE850 Mode – Ch. 190)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 49 of 79

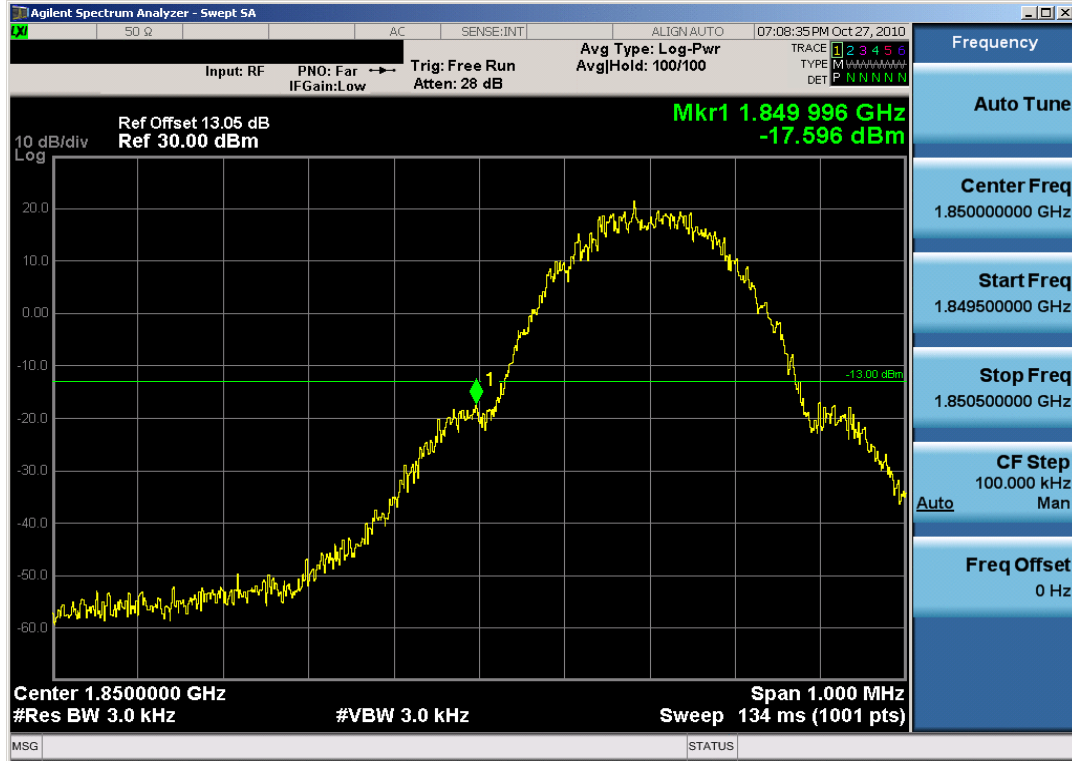


Plot 7-11. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

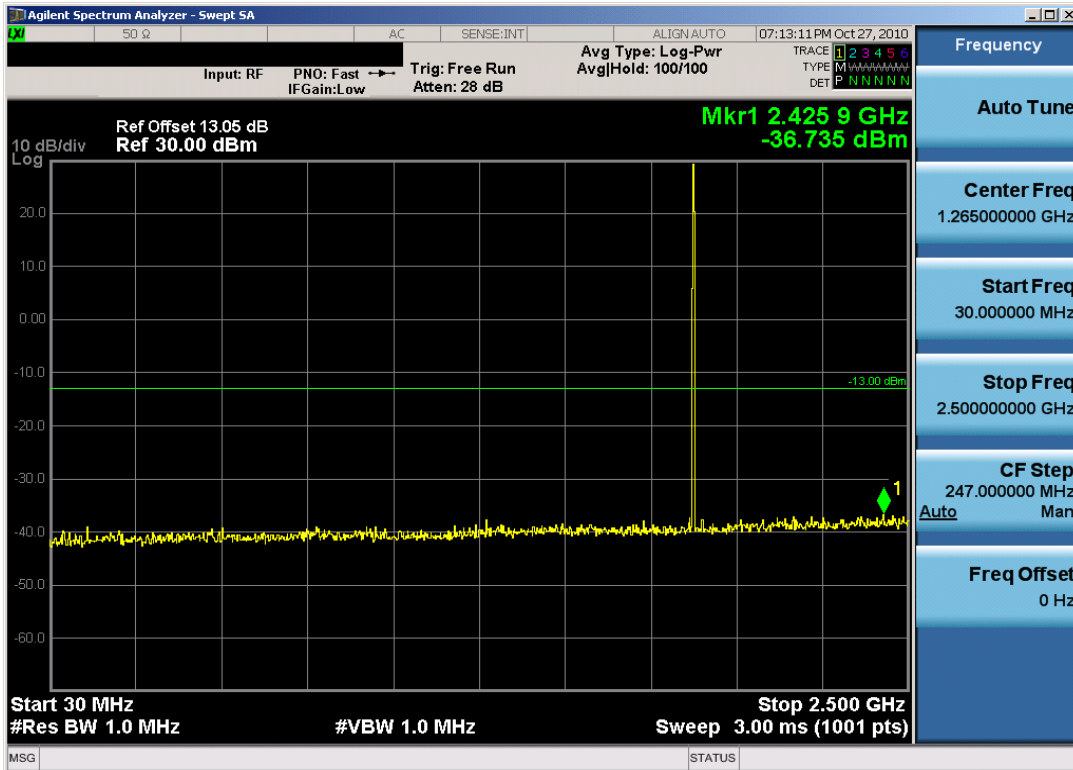


Plot 7-12. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 50 of 79

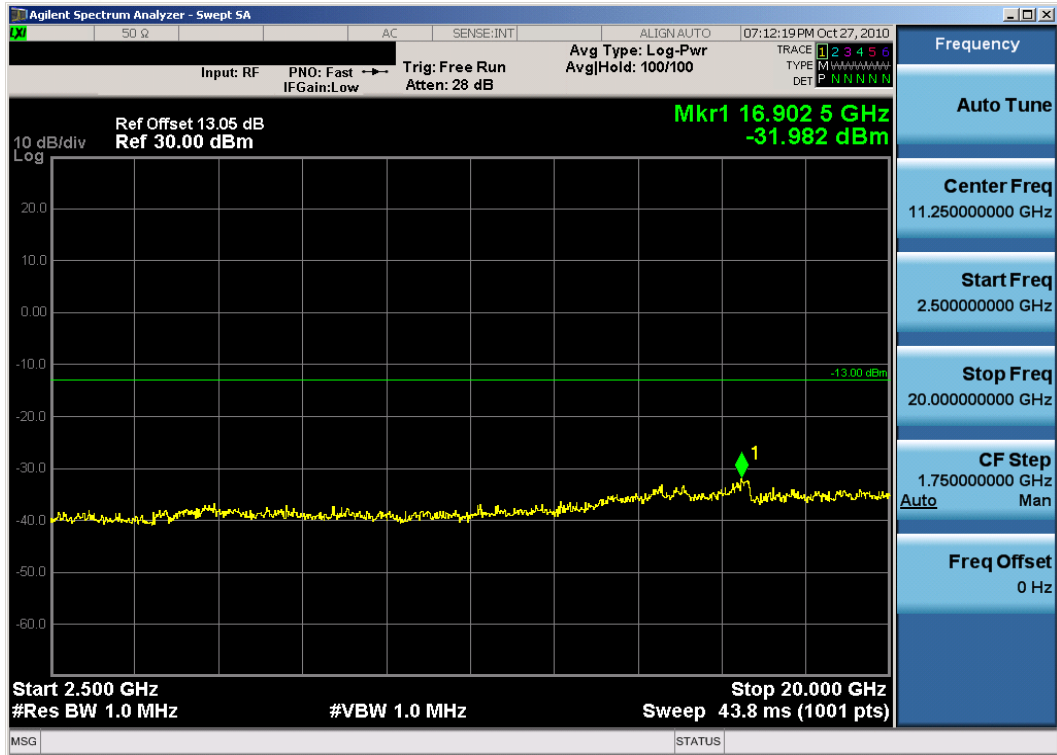


Plot 7-13. Band Edge Plot (PCS GSM Mode – Ch. 512)

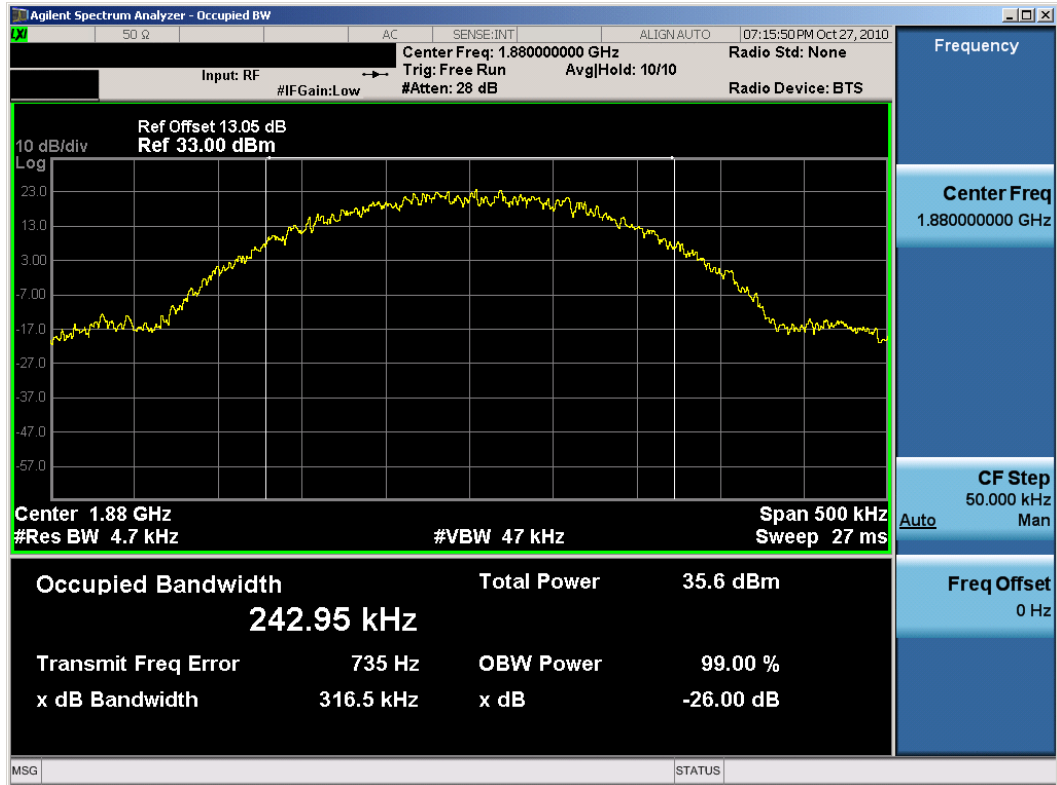


Plot 7-14. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 51 of 79

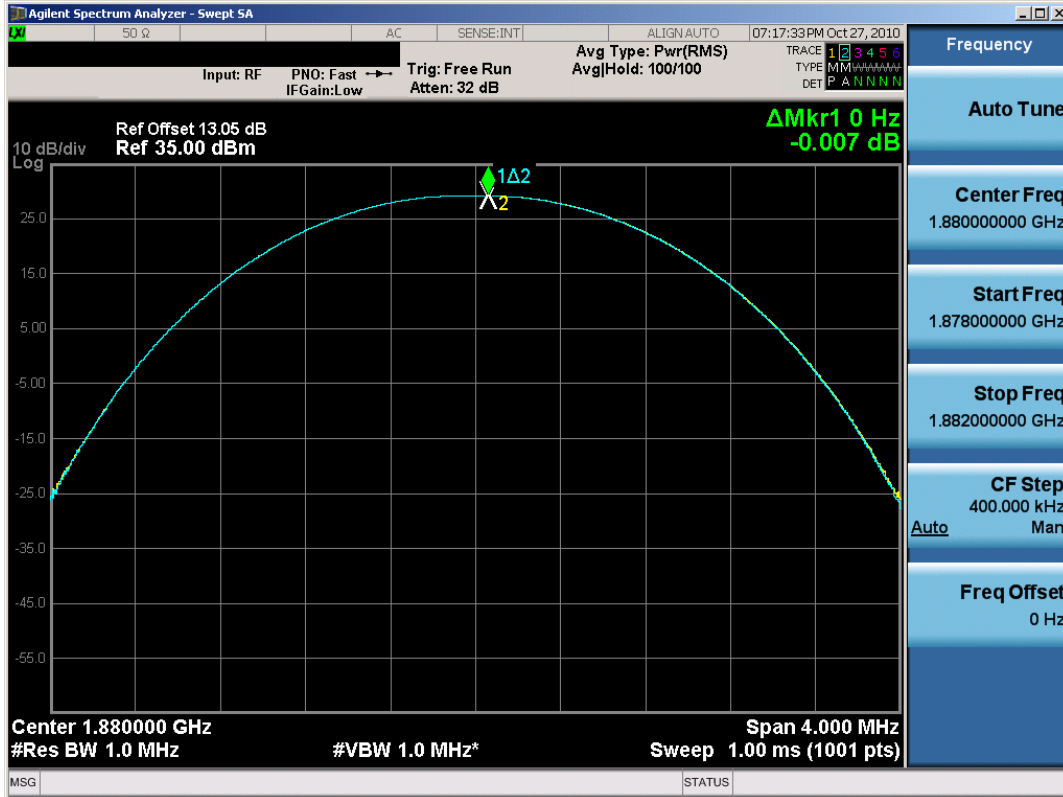


Plot 7-15. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

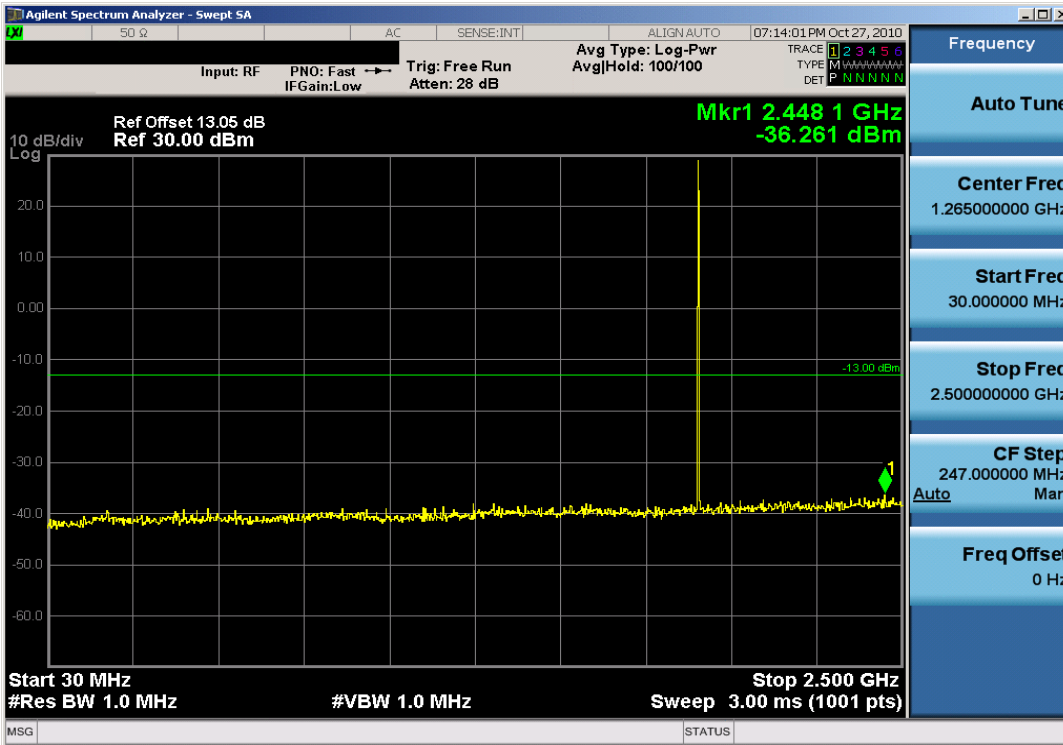


Plot 7-16. Occupied Bandwidth Plot (PCS GSM Mode – Ch. 661)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 52 of 79

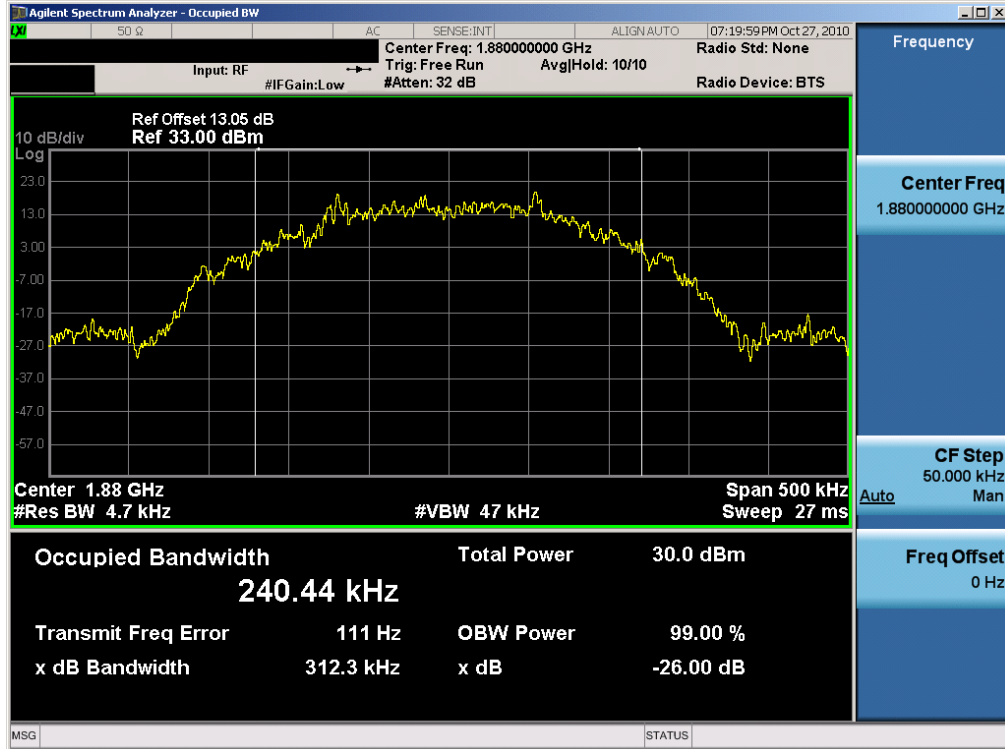


Plot 7-17. Peak-Average Ratio Plot (PCS GSM Mode – Ch. 661)

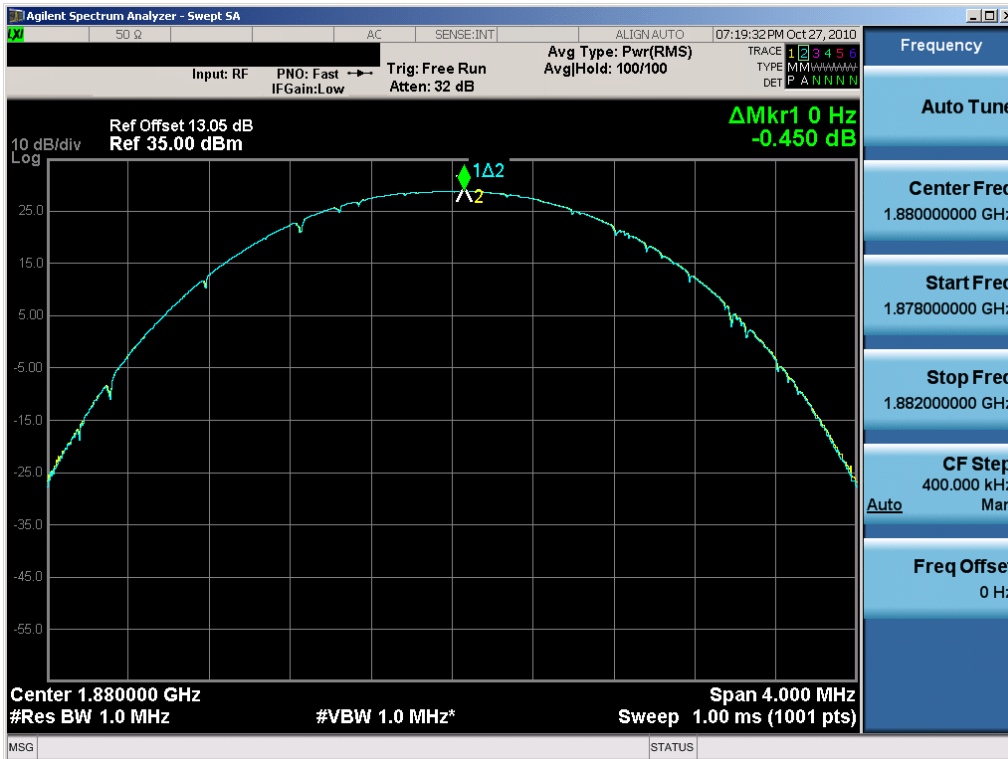


Plot 7-18. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 53 of 79

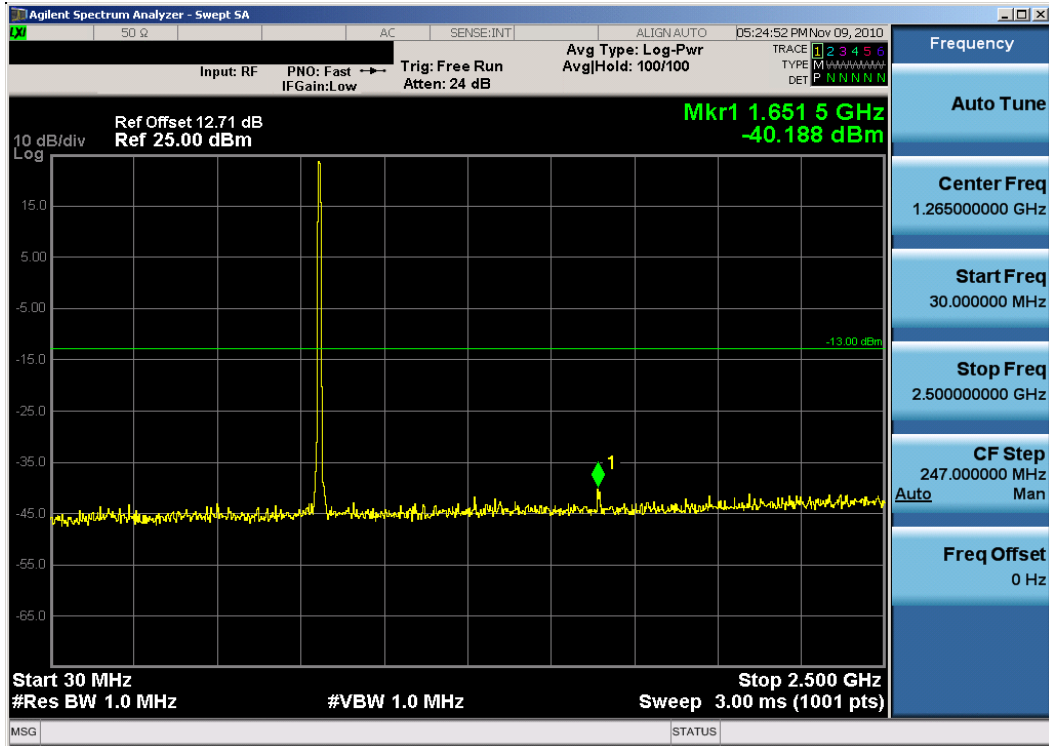


Plot 7-21. Occupied Bandwidth Plot (EDGE1900 Mode – Ch. 661)

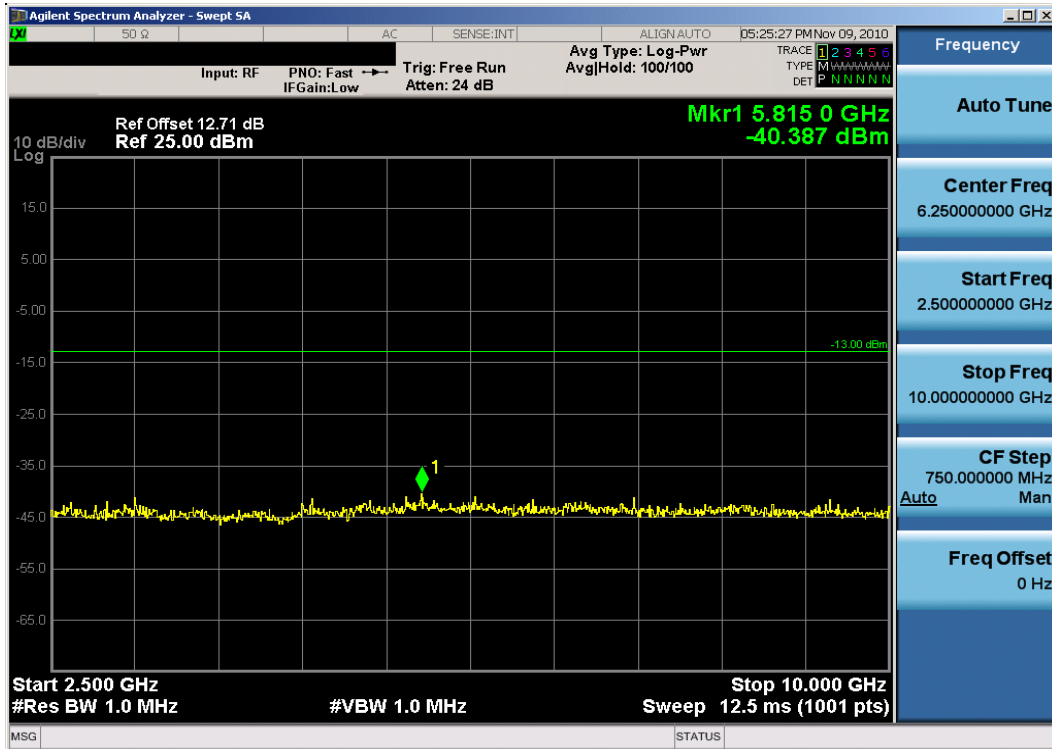


Plot 7-22. Peak-Average Ratio Plot (EDGE1900 Mode – Ch. 661)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 55 of 79

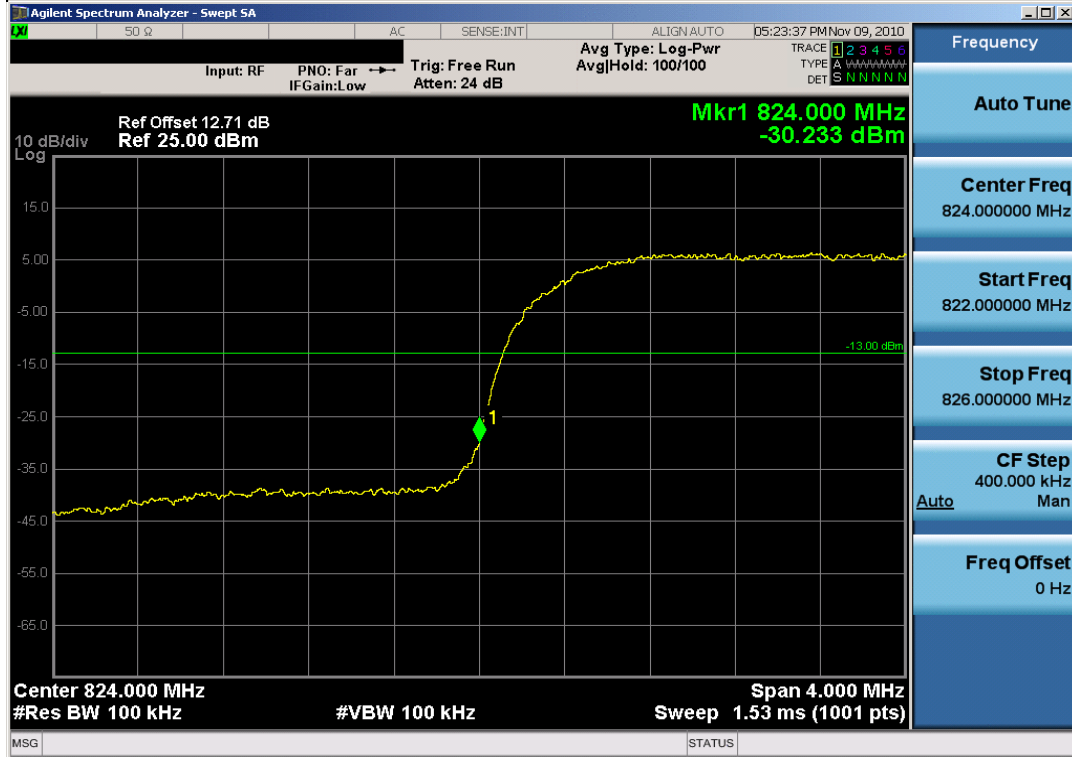


Plot 7-23. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)

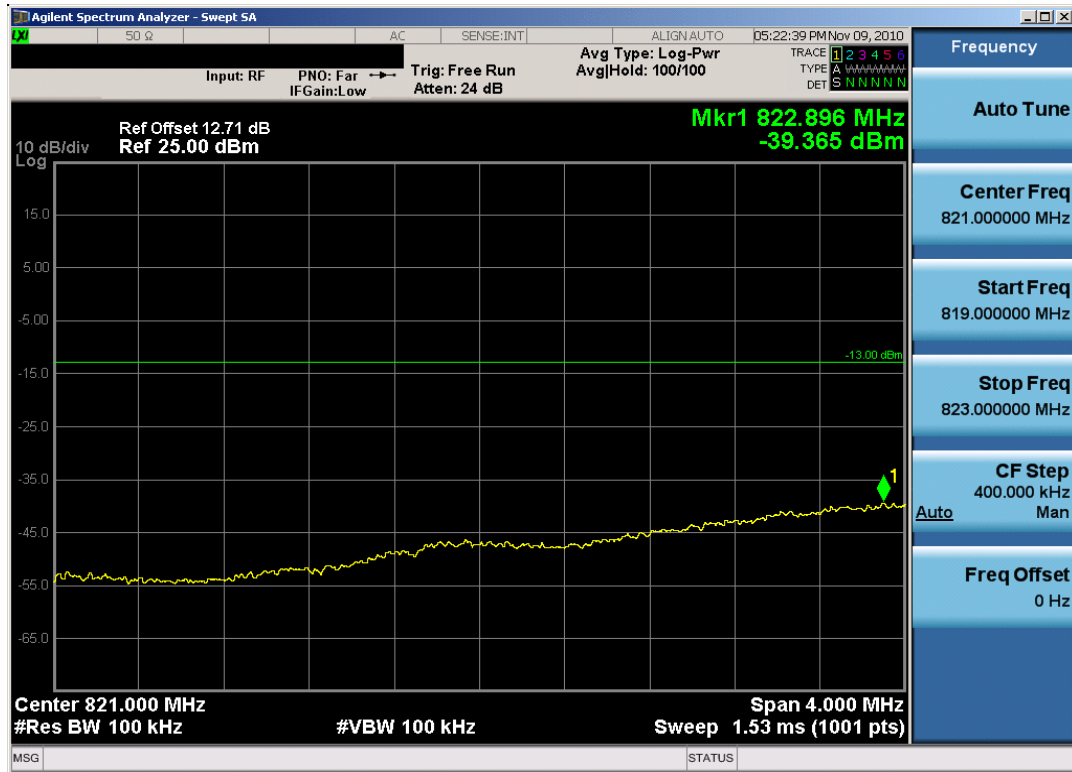


Plot 7-24. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4132)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 56 of 79

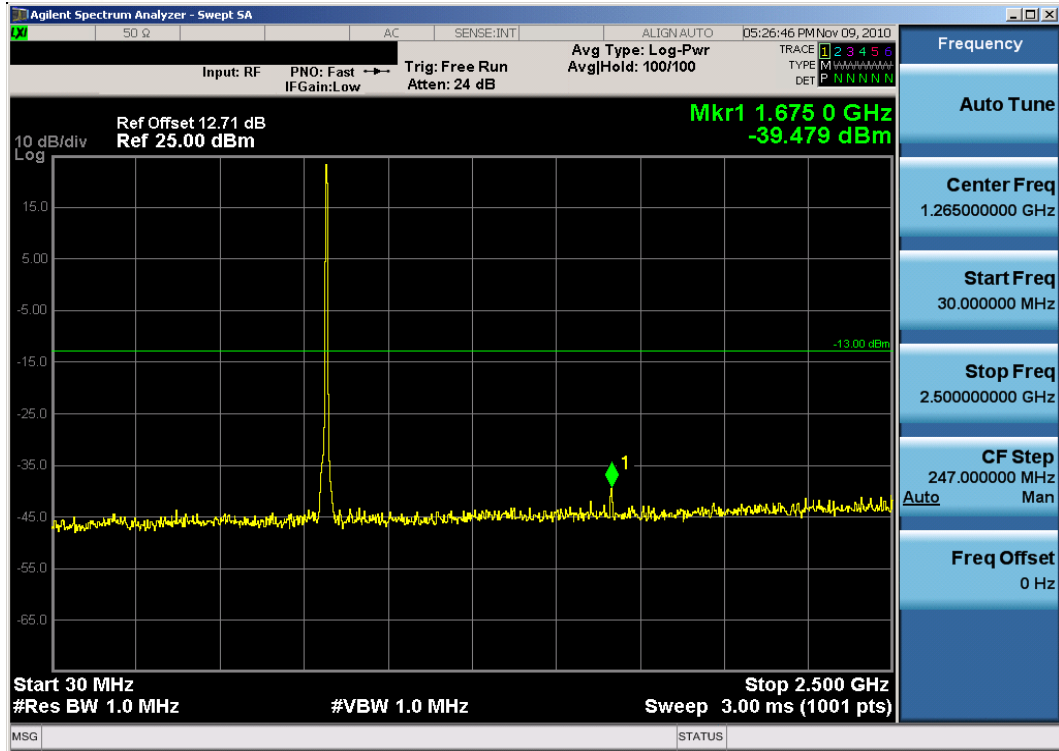


Plot 7-25. Band Edge Plot (Cellular WCDMA Mode – Ch. 4132)

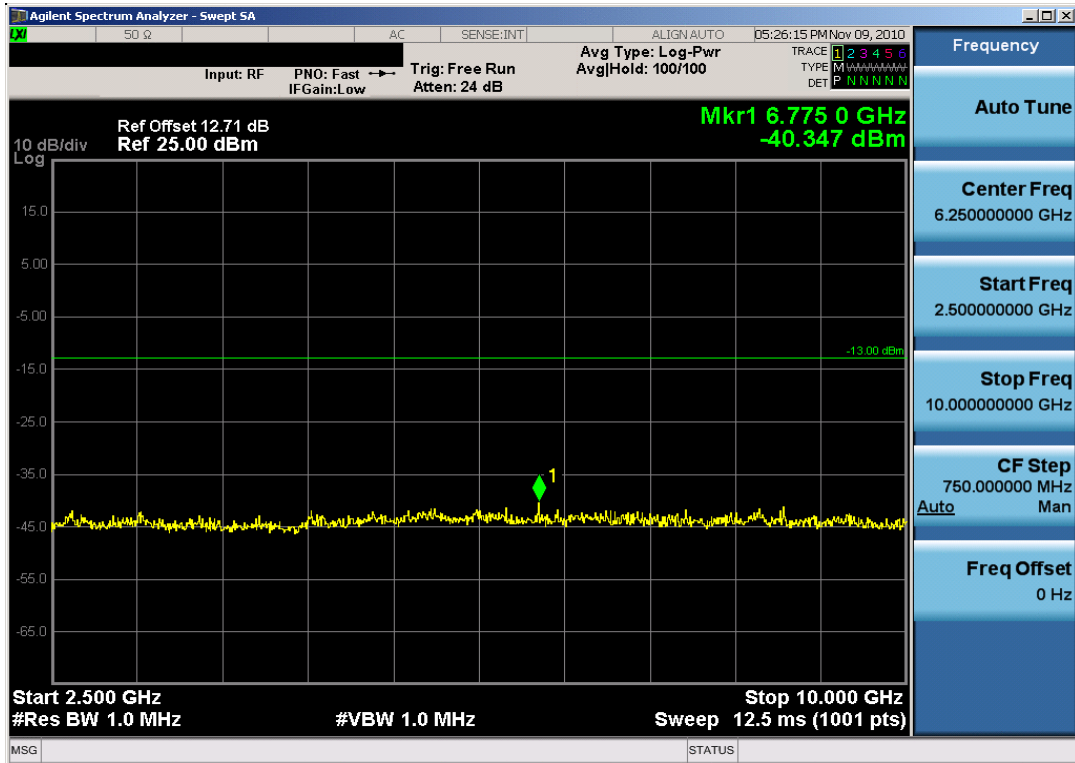


Plot 7-26. 4MHz Span Plot (Cellular WCDMA Mode – Ch. 4132)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 57 of 79

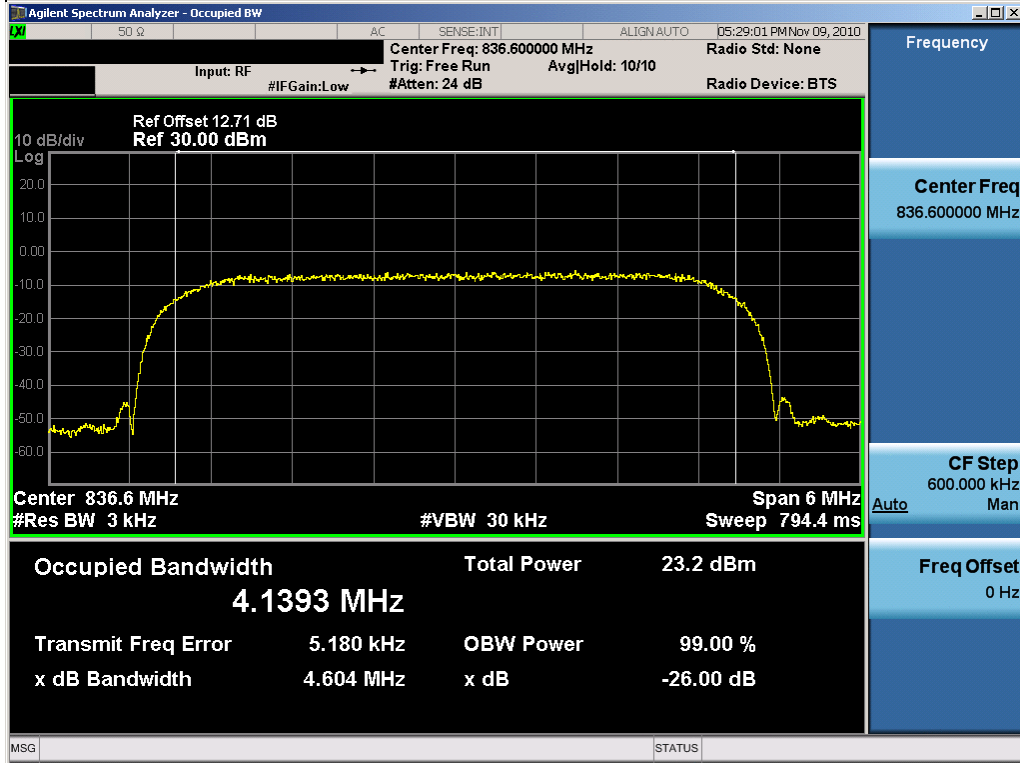


Plot 7-27. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4183)

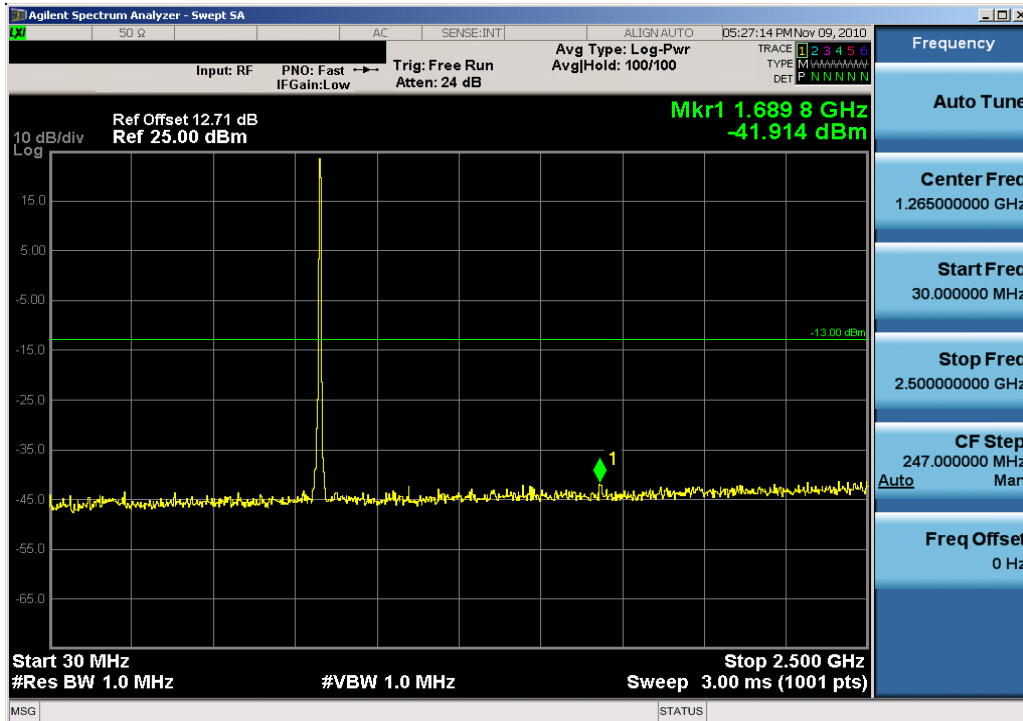


Plot 7-28. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4183)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 58 of 79

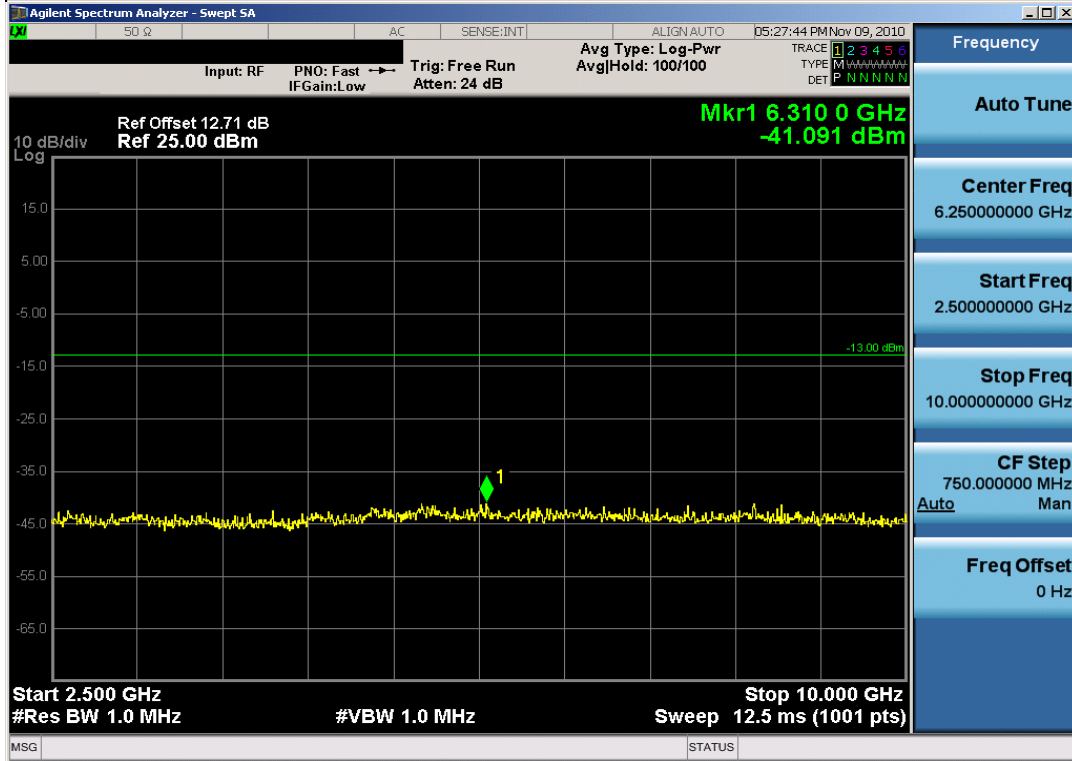


Plot 7-29. Occupied Bandwidth Plot (Cellular WCDMA Mode – Ch. 4183)

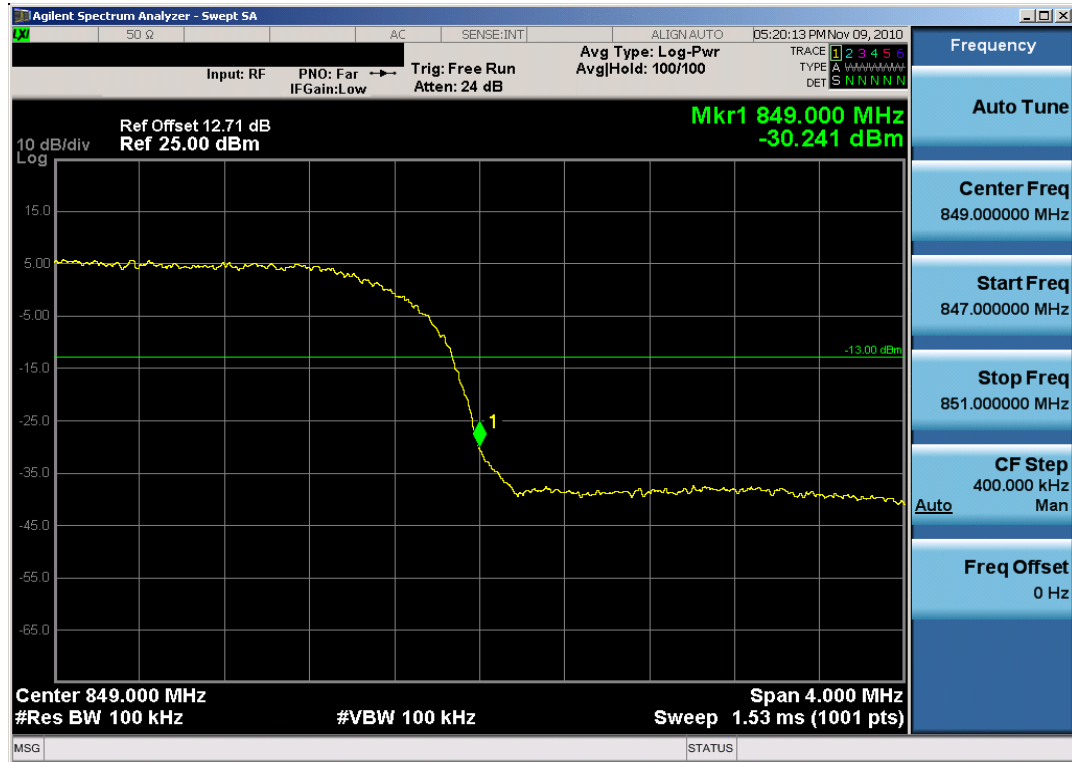


Plot 7-30. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 59 of 79

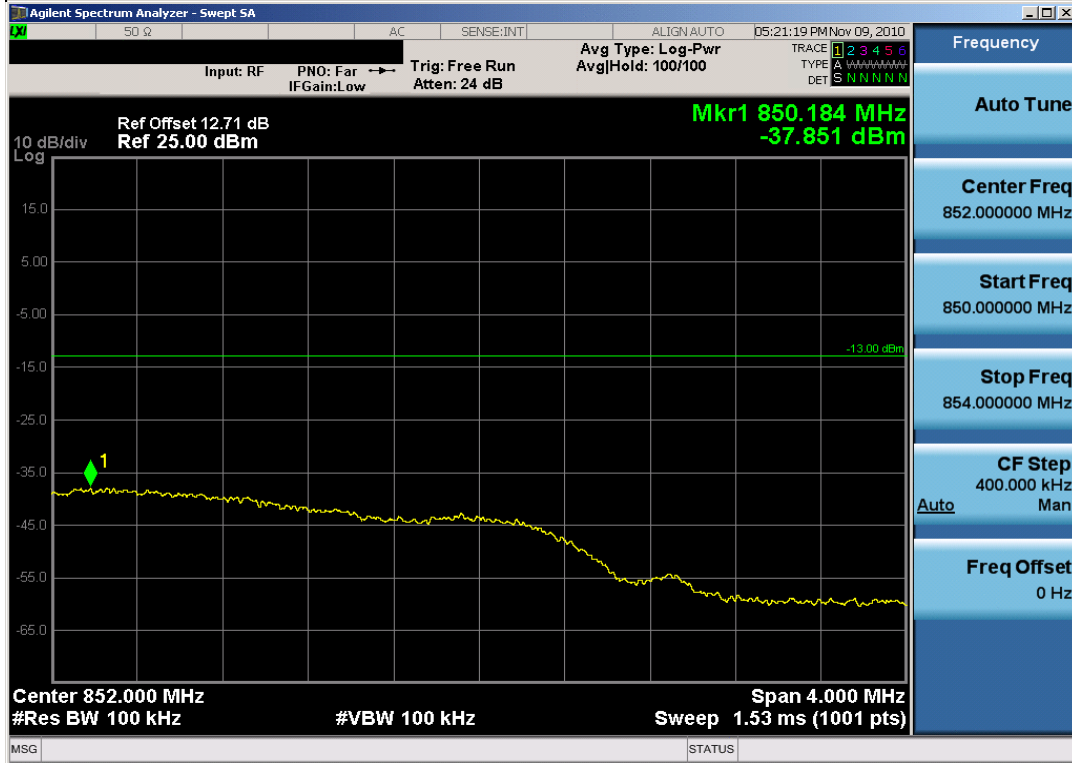


Plot 7-31. Conducted Spurious Plot (Cellular WCDMA Mode – Ch. 4233)

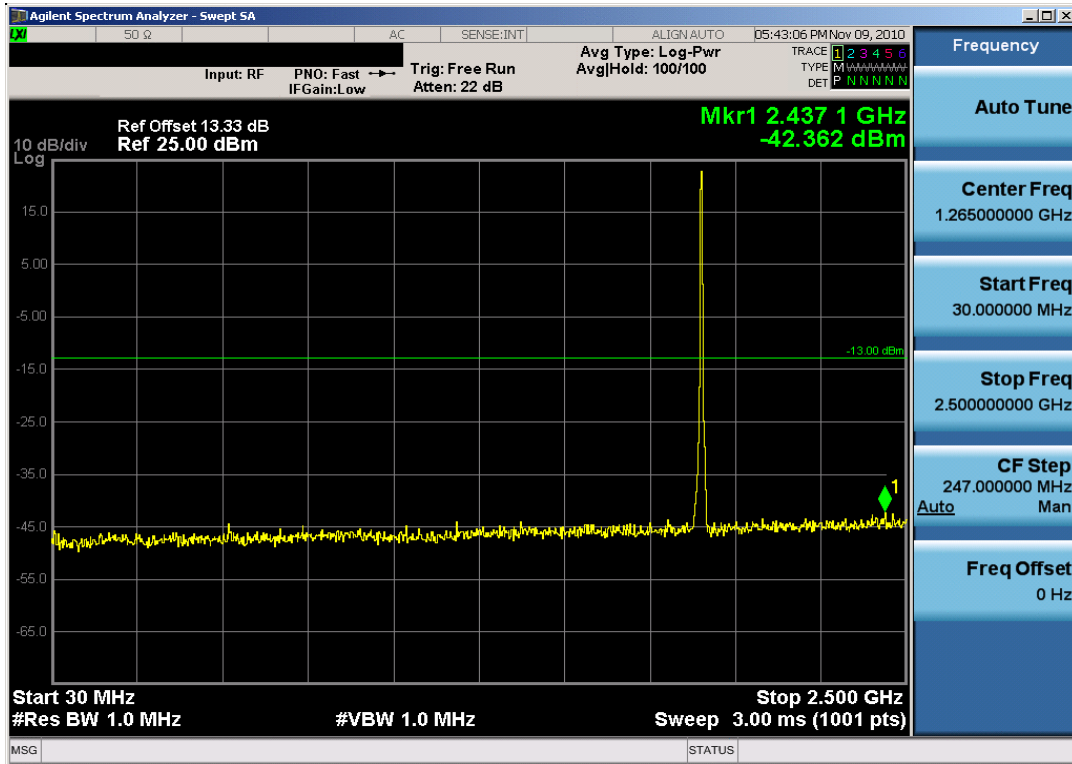


Plot 7-32. Band Edge Plot (Cellular WCDMA Mode – Ch. 4233)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 60 of 79

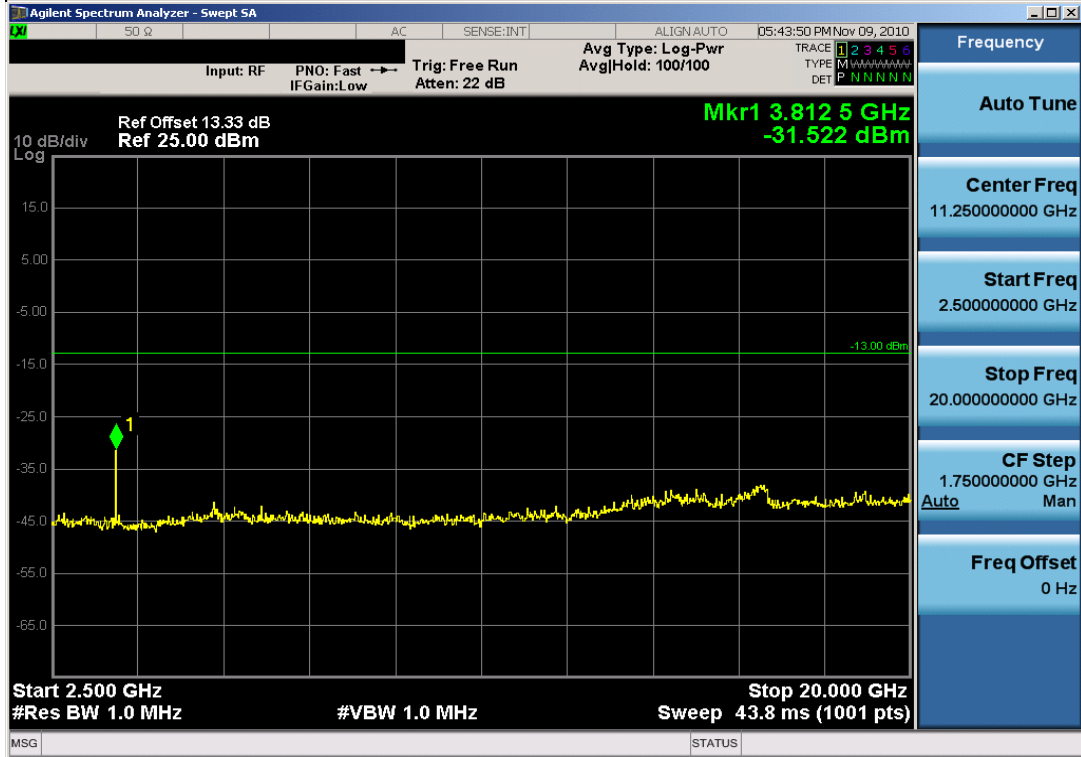


Plot 7-33. 4MHz Span Plot (Cellular WCDMA Mode – Ch. 4233)

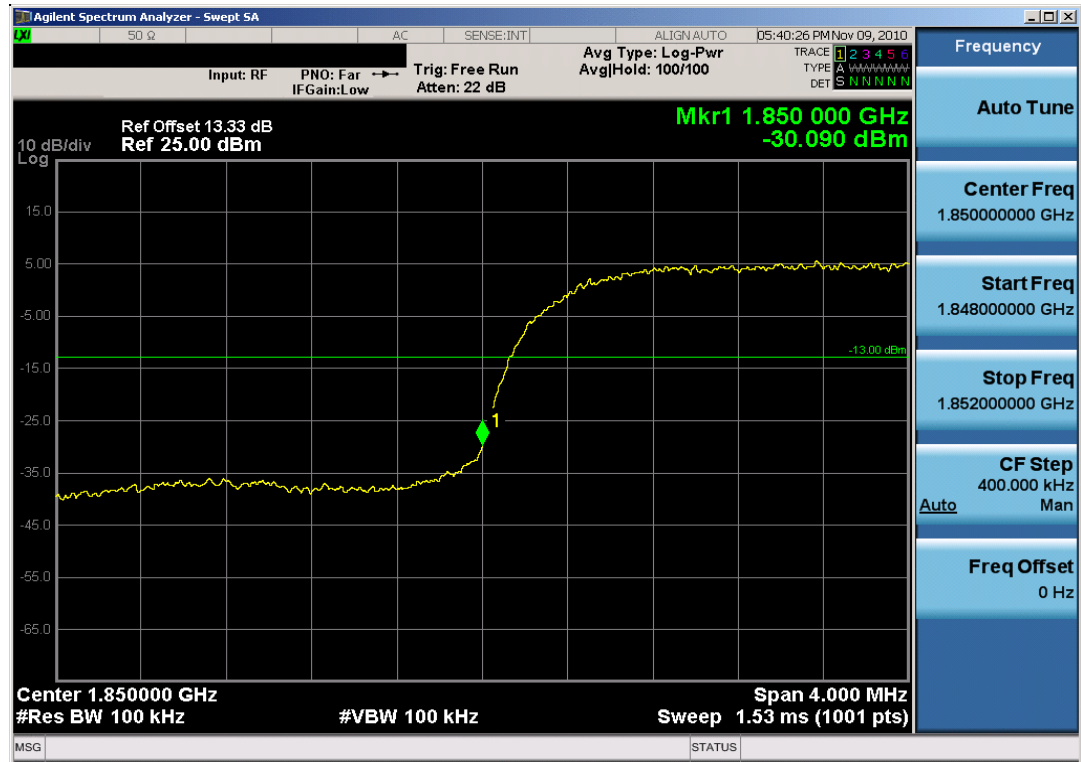


Plot 7-34. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9262)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 61 of 79

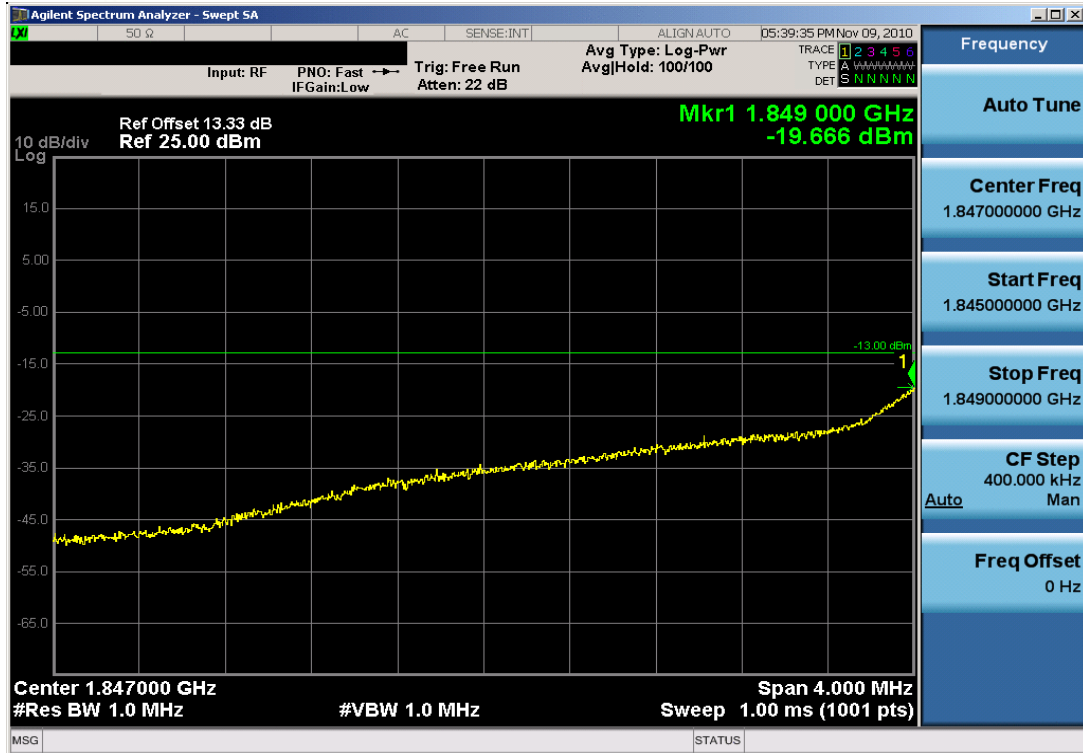


Plot 7-35. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9262)

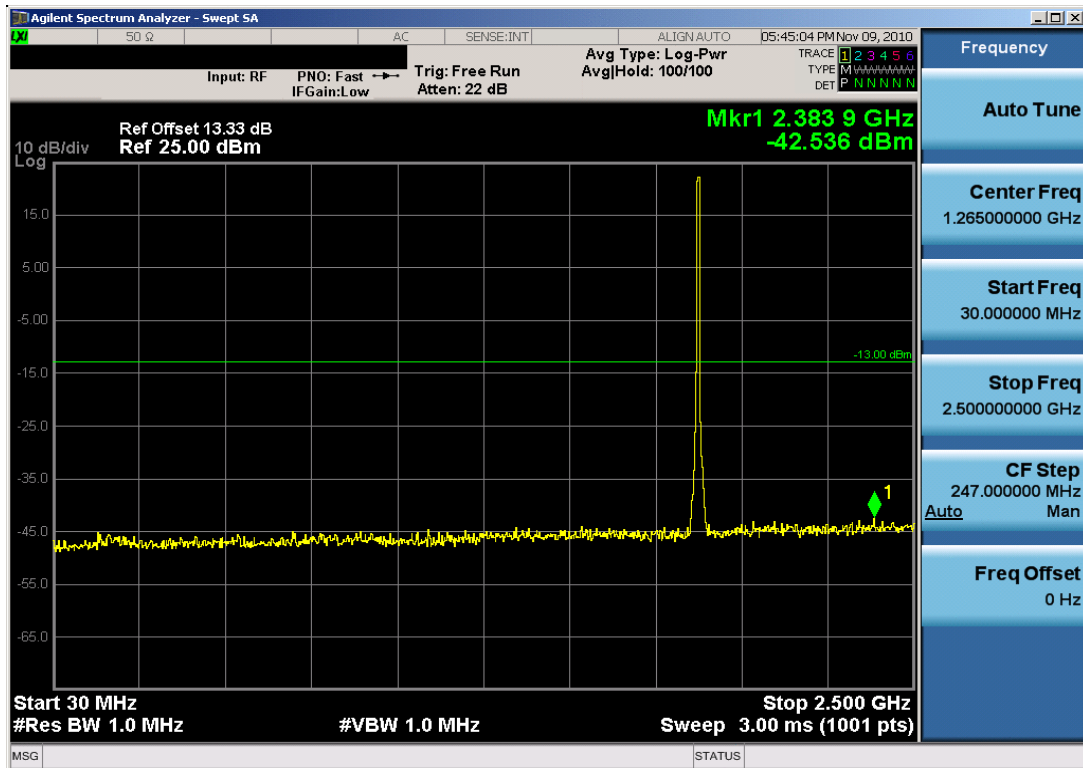


Plot 7-36. Band Edge Plot (PCS WCDMA Mode – Ch. 9262)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 62 of 79

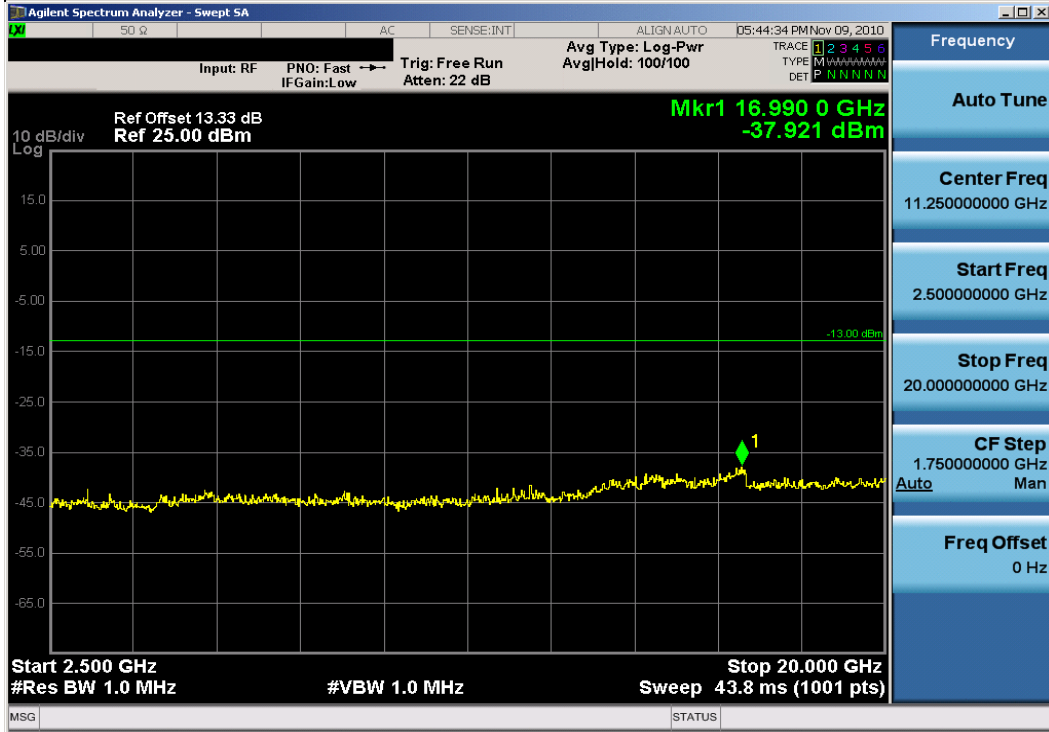


Plot 7-37. 4MHz Span Plot (PCS WCDMA Mode – Ch. 9262)

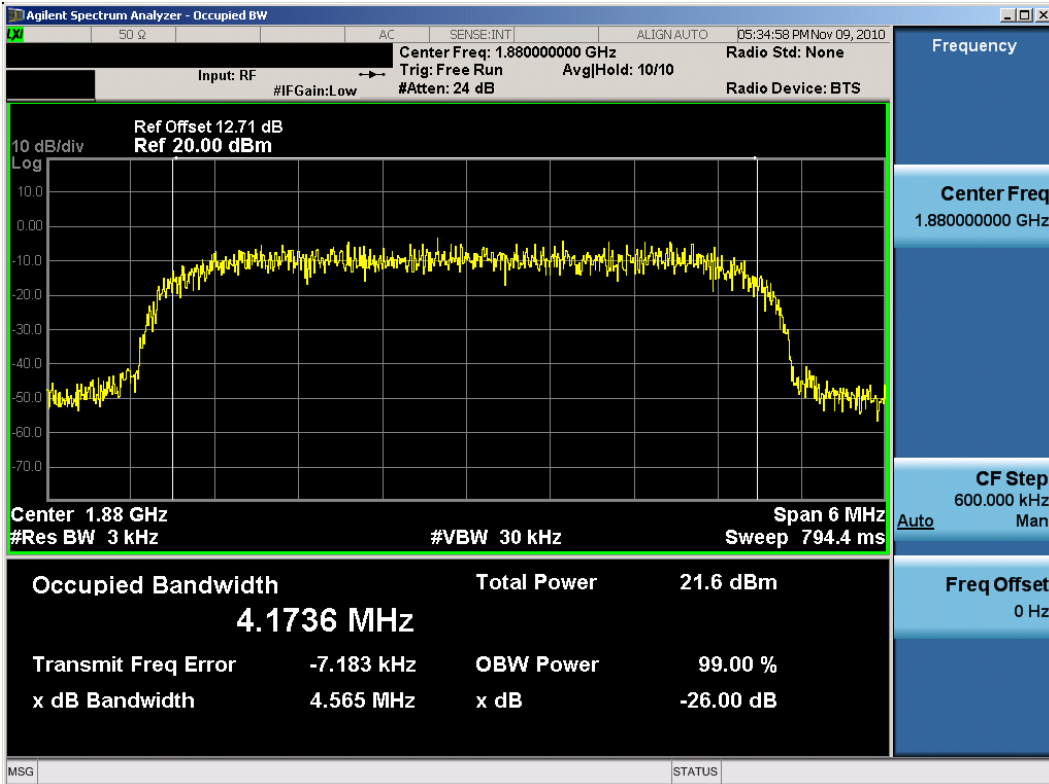


Plot 7-38. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9400)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 63 of 79

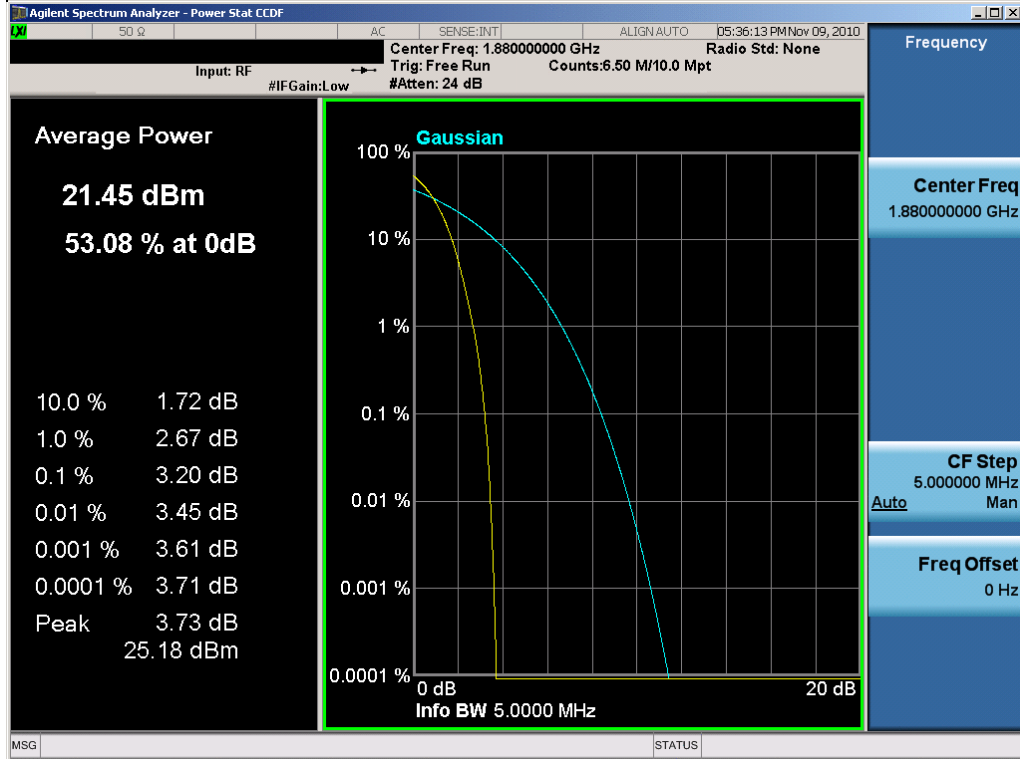


Plot 7-39. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9400)

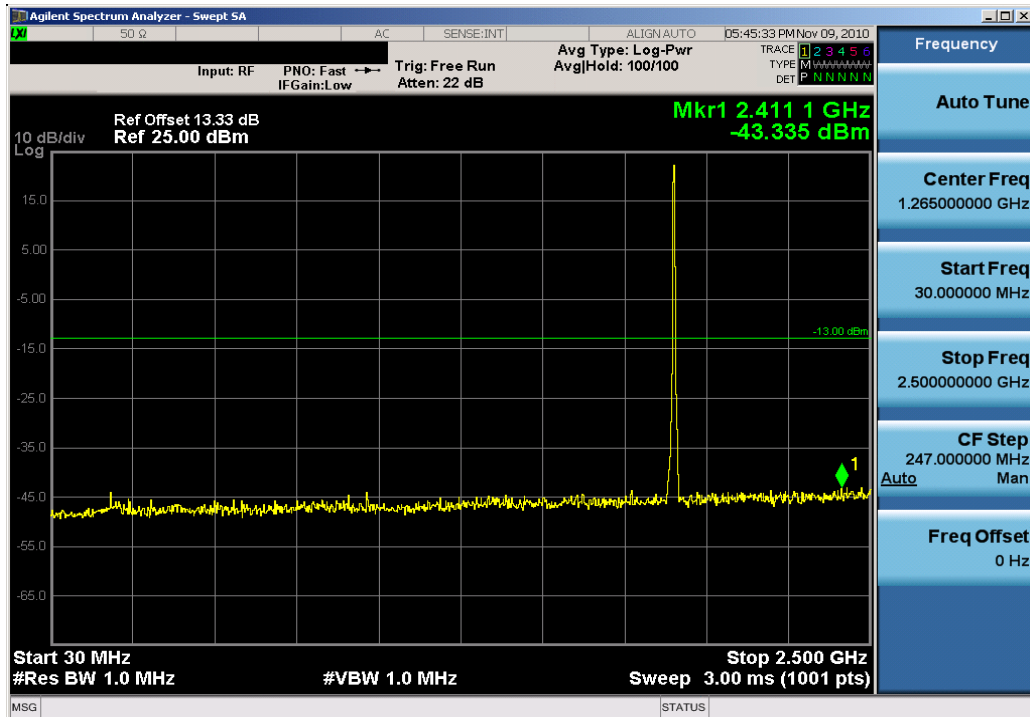


Plot 7-40. Occupied Bandwidth Plot (PCS WCDMA Mode – Ch. 9400)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 64 of 79

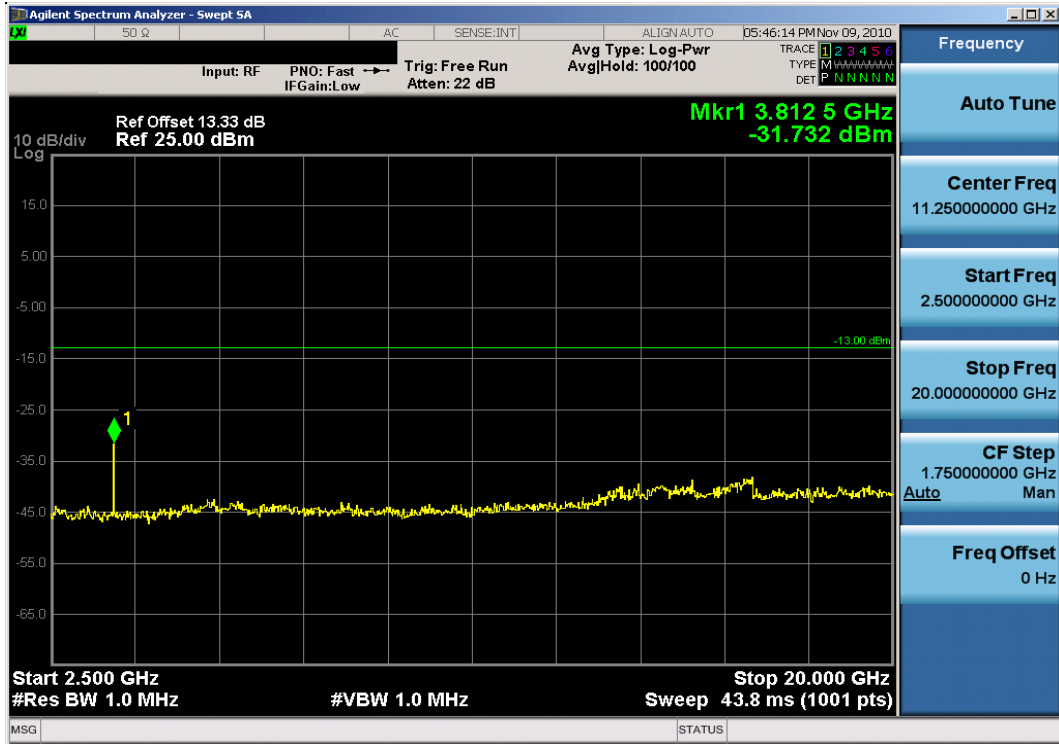


Plot 7-41. Peak-Average Ratio Plot (PCS WCDMA Mode – Ch. 9400)

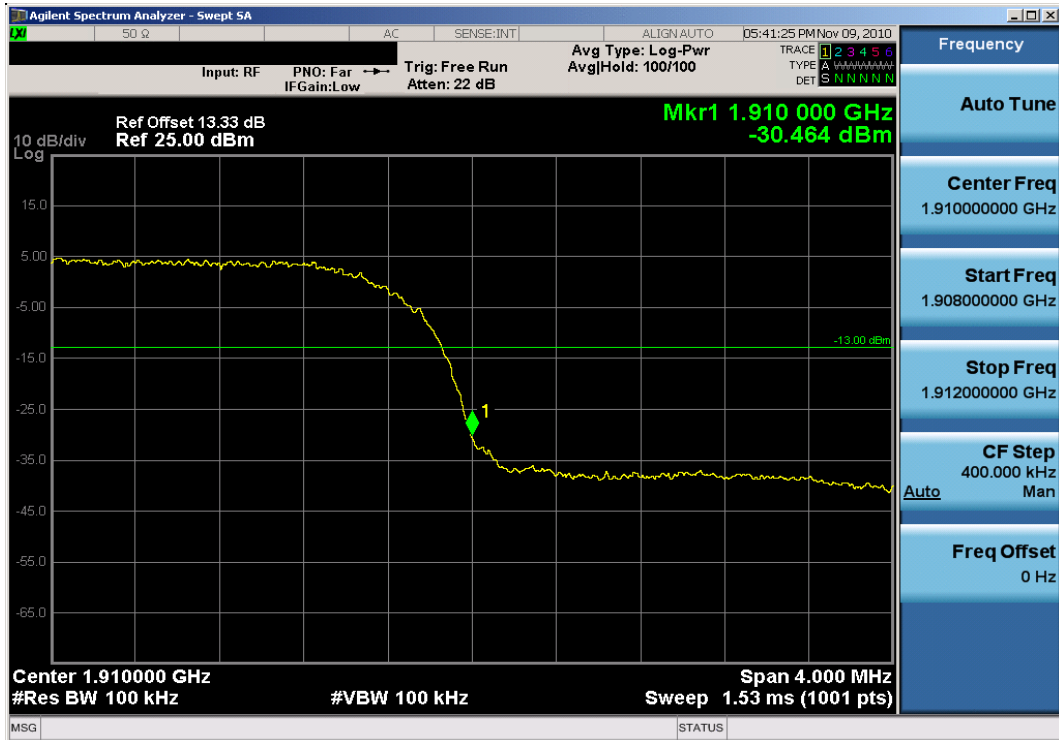


Plot 7-42. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9538)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 65 of 79

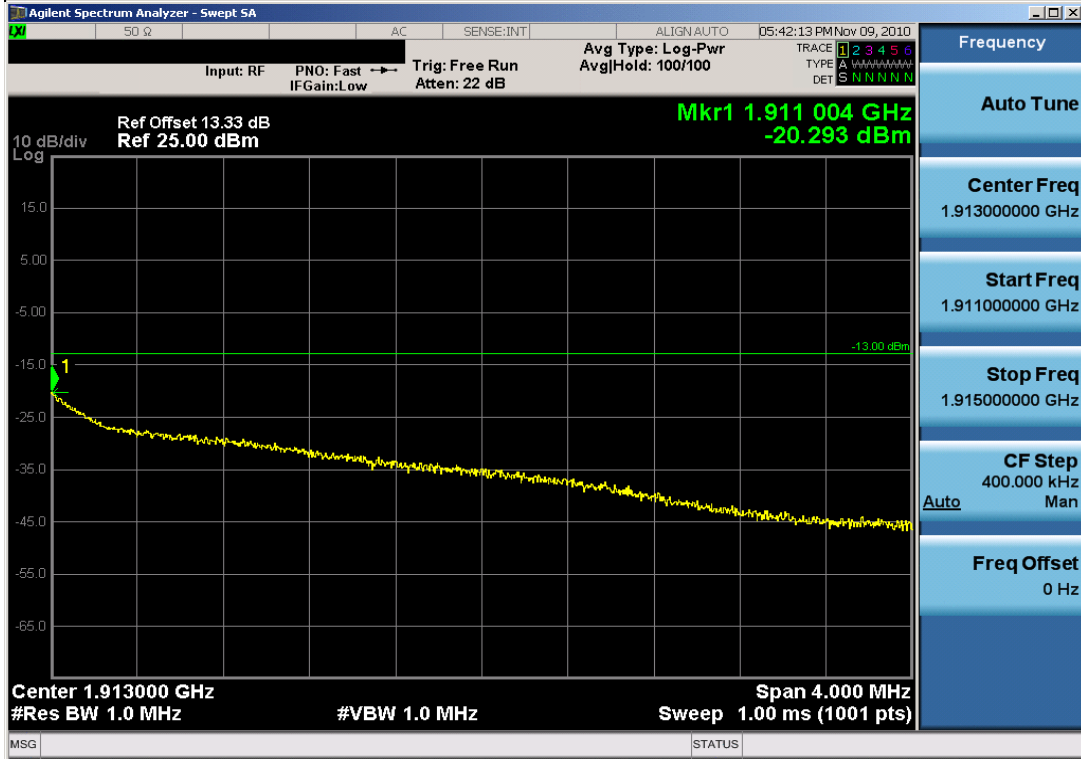


Plot 7-43. Conducted Spurious Plot (PCS WCDMA Mode – Ch. 9538)

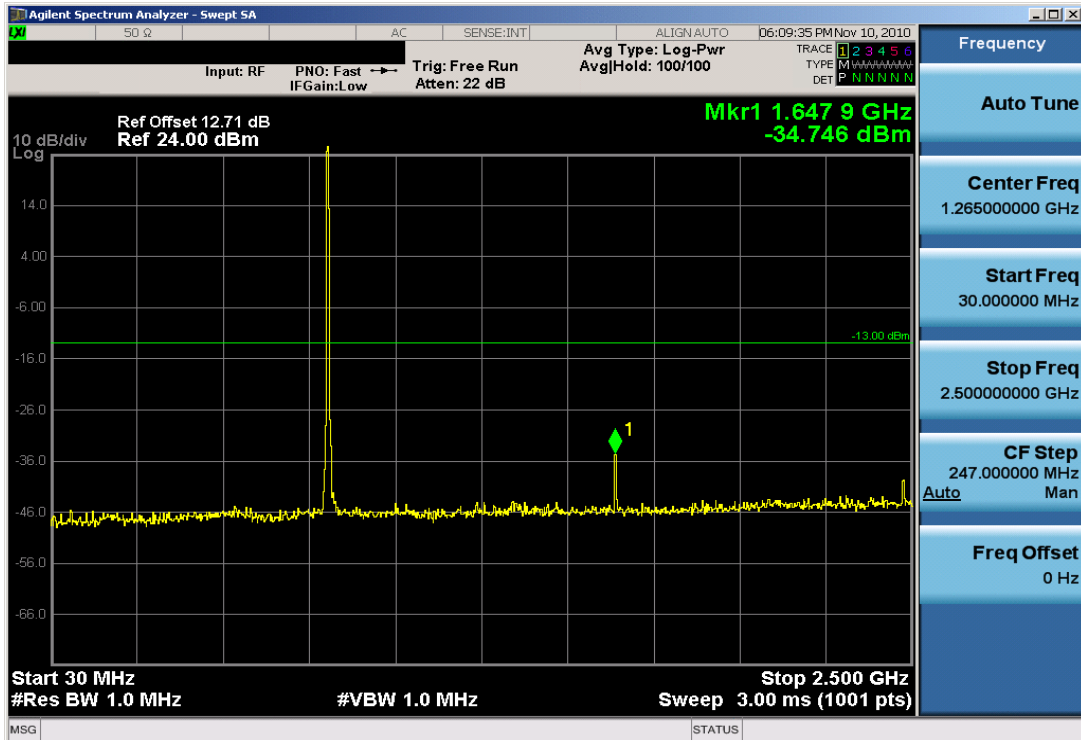


Plot 7-44. Band Edge Plot (PCS WCDMA Mode – Ch. 9538)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 66 of 79

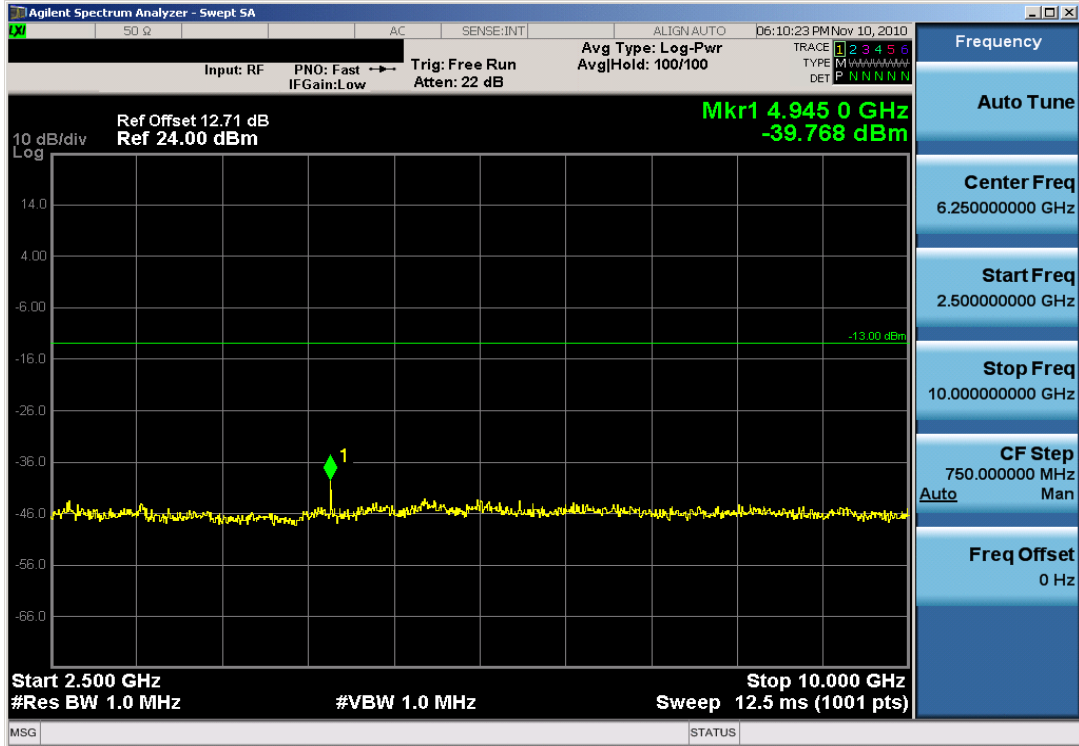


Plot 7-45. 4MHz Span Plot (PCS WCDMA Mode – Ch. 9538)

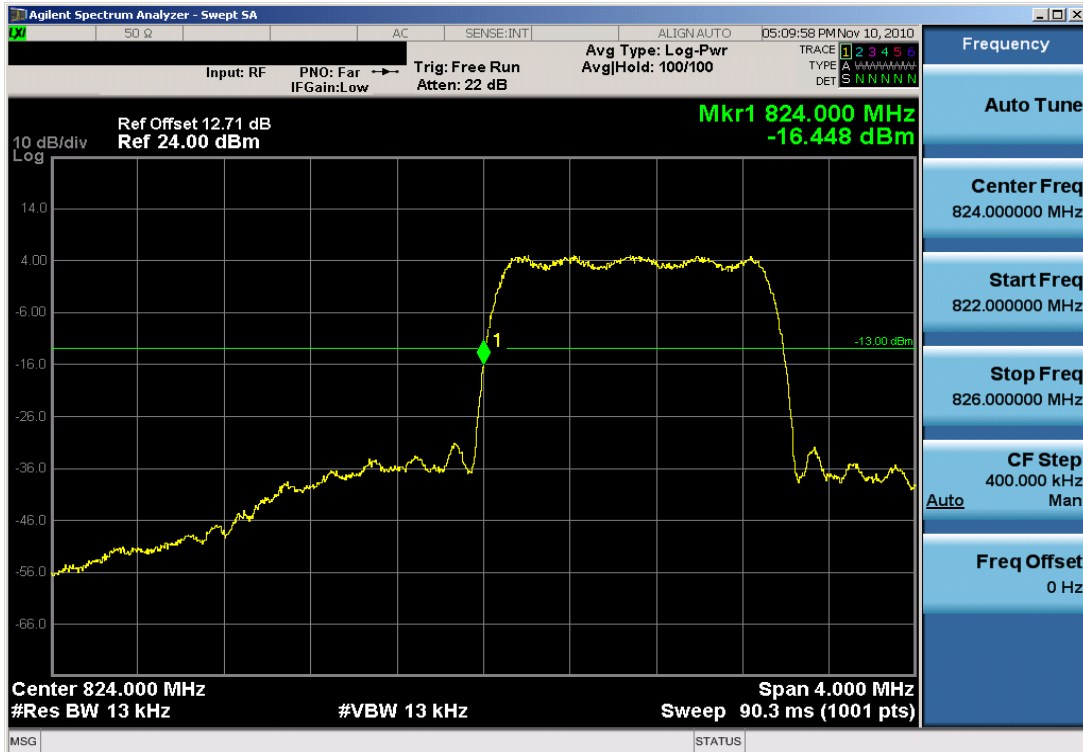


Plot 7-46. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 67 of 79



Plot 7-47. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)

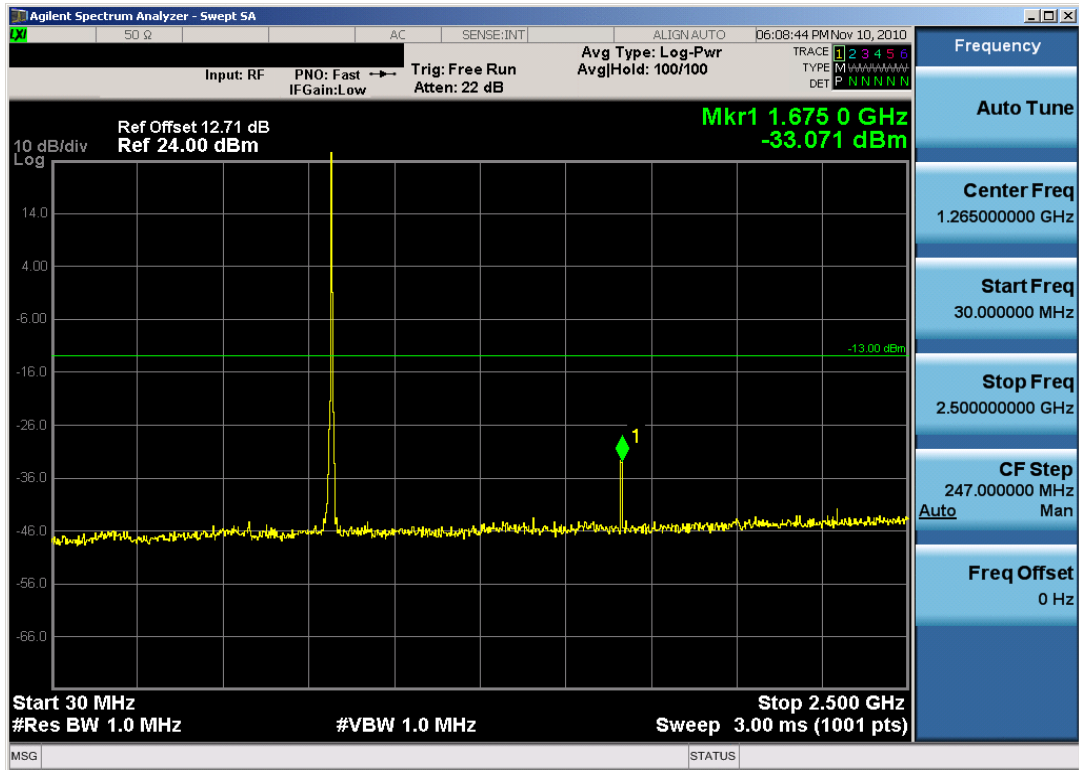


Plot 7-48. Band Edge Plot (Cellular CDMA Mode – Ch. 1013)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 68 of 79

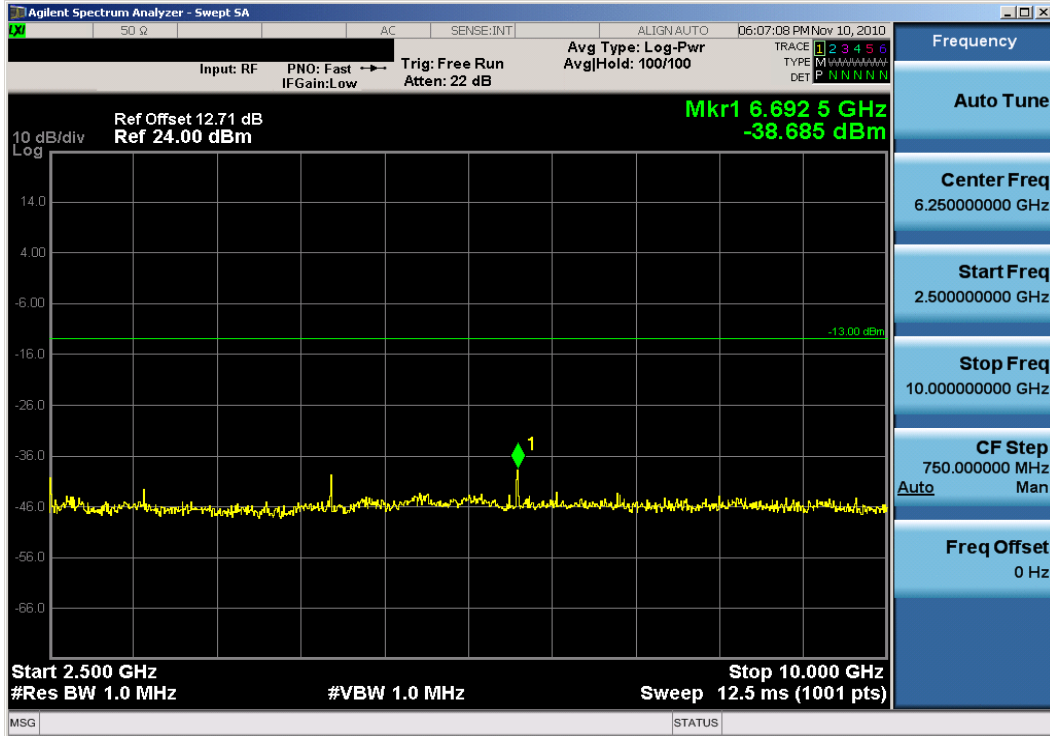


Plot 7-49. 4MHz Span Plot (Cellular CDMA Mode – Ch. 1013)

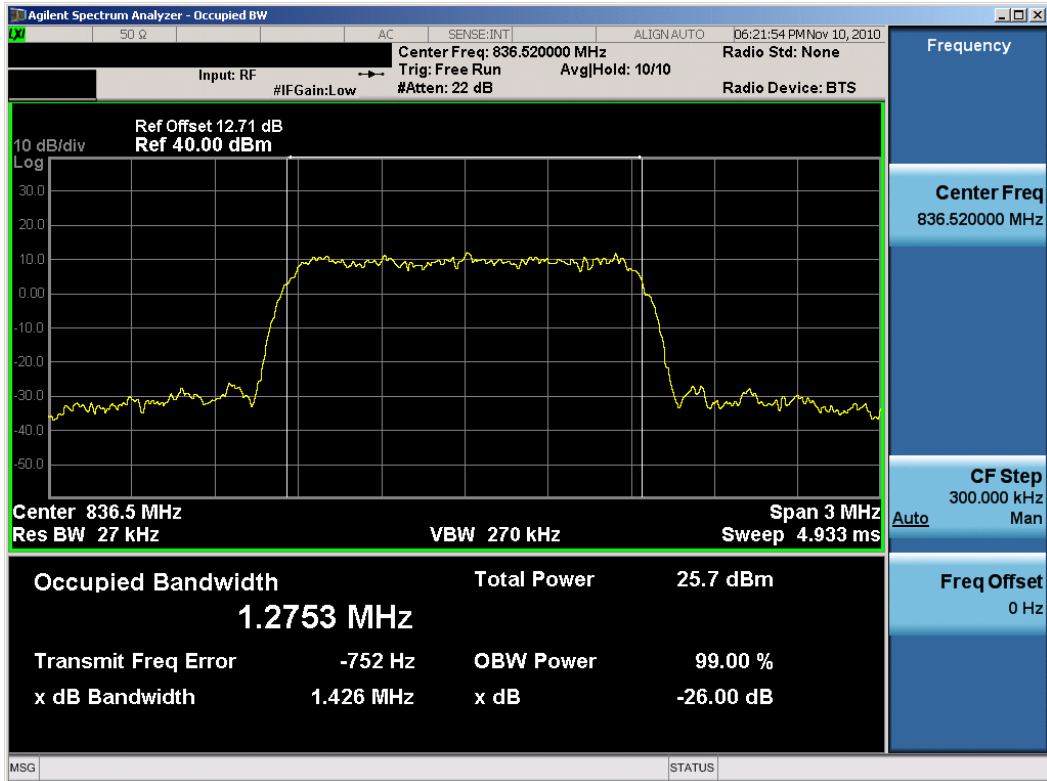


Plot 7-50. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 69 of 79

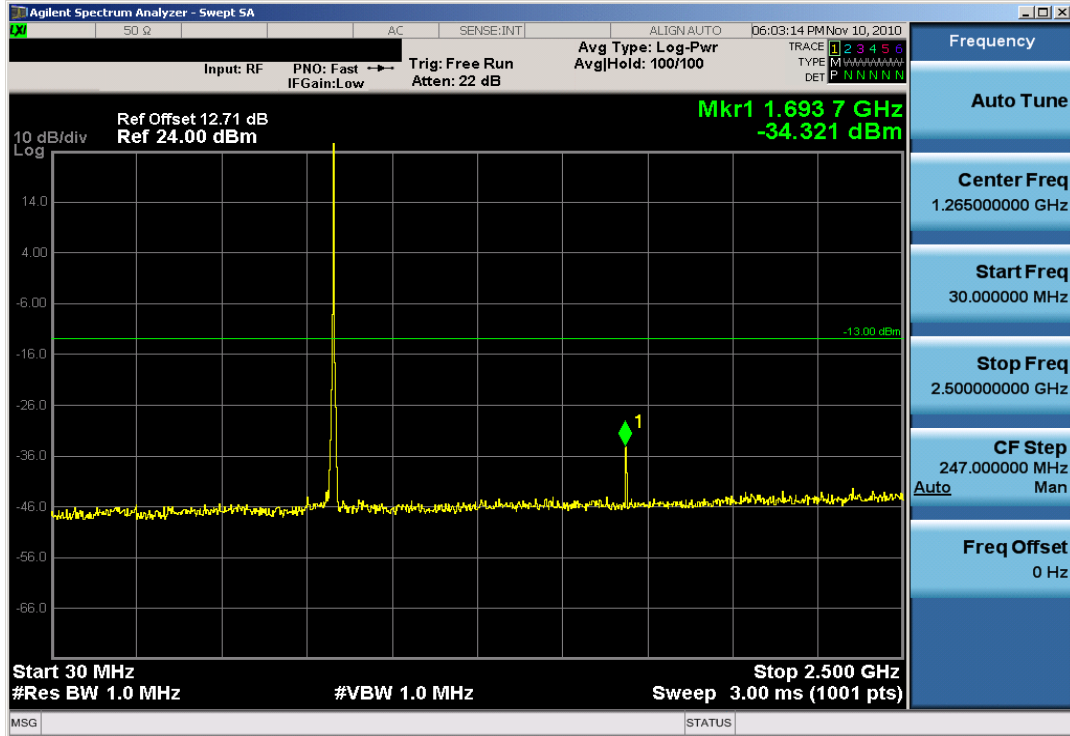


Plot 7-51. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

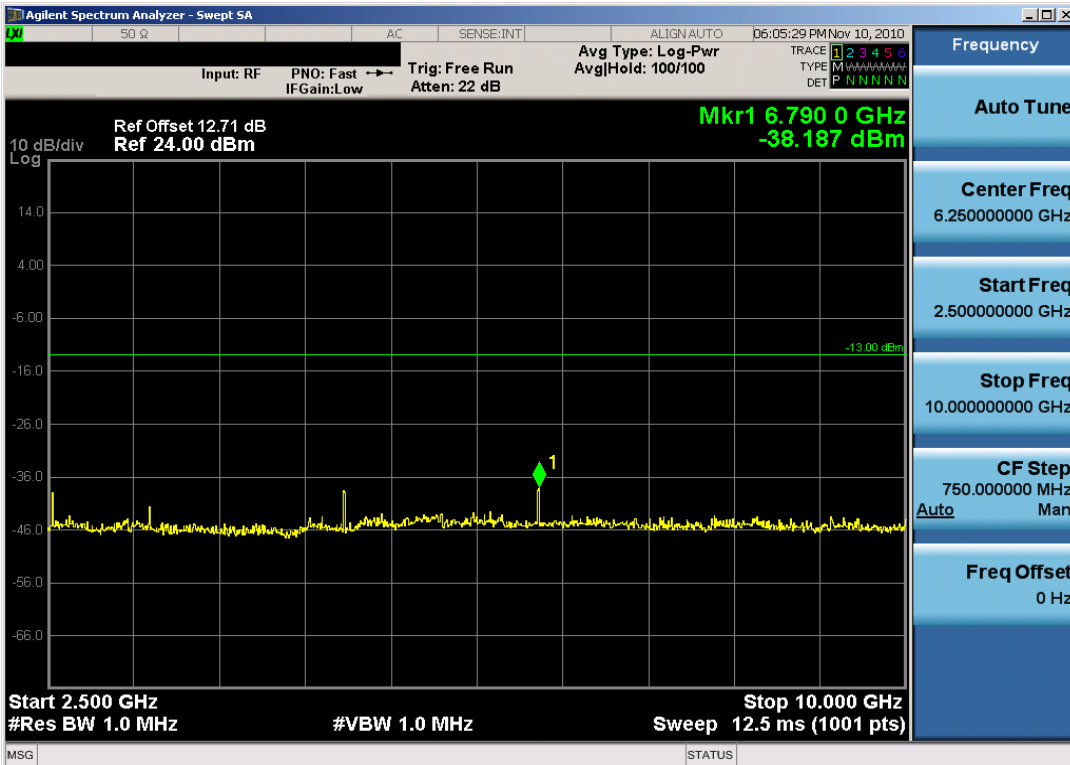


Plot 7-52. Occupied Bandwidth Plot (Cellular CDMA Mode – Ch. 1013)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 70 of 79



Plot 7-53. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

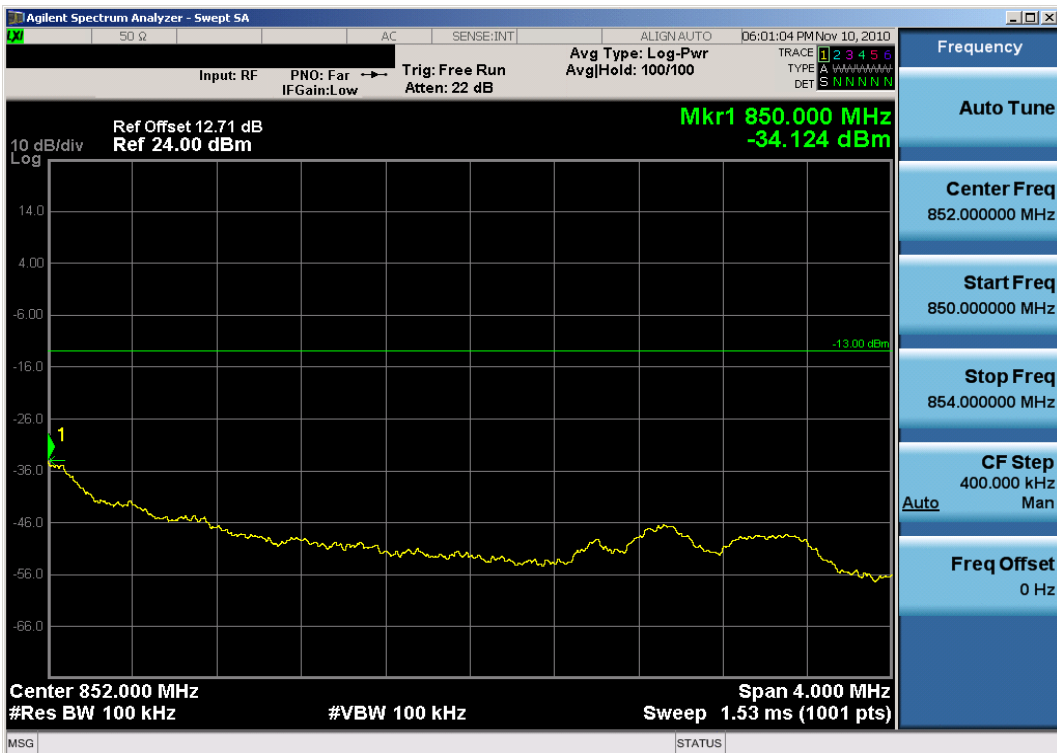


Plot 7-54. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 71 of 79

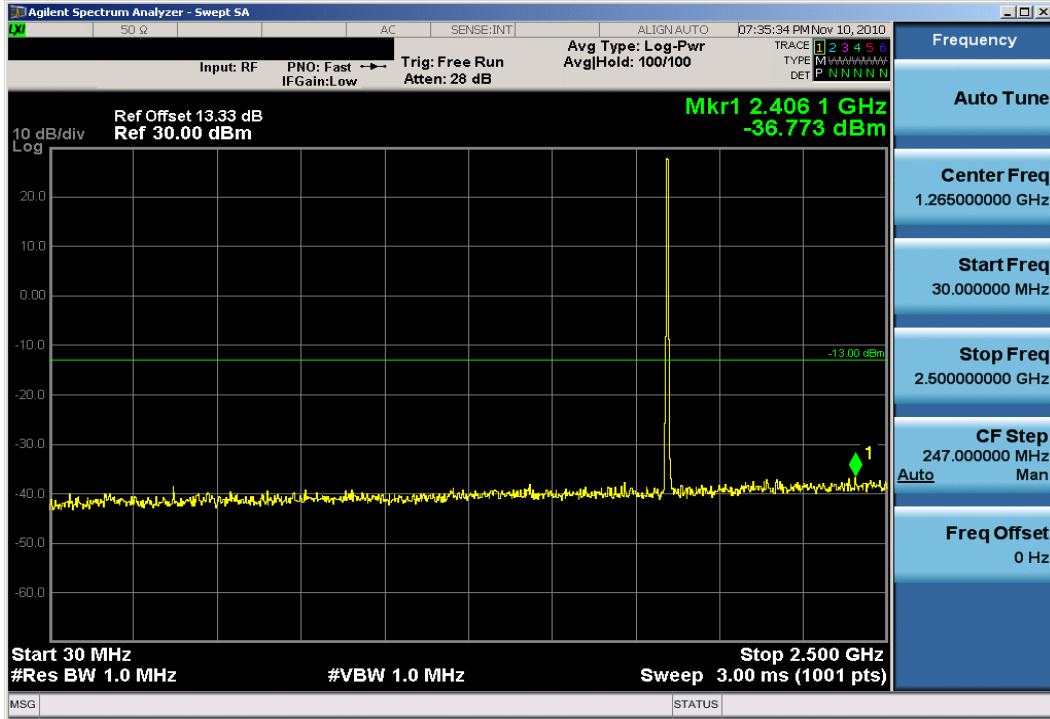


Plot 7-55. Band Edge Plot (Cellular CDMA Mode – Ch. 777)

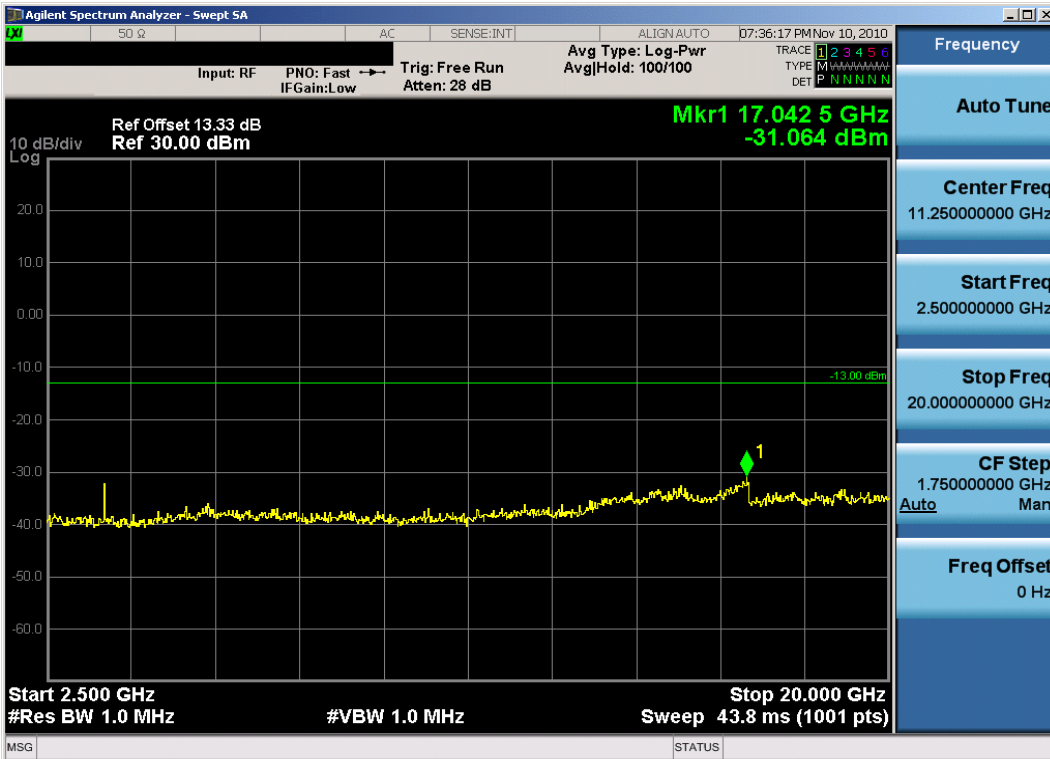


Plot 7-56. 4MHz Span Plot (Cellular CDMA Mode – Ch. 777)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 72 of 79



Plot 7-57. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

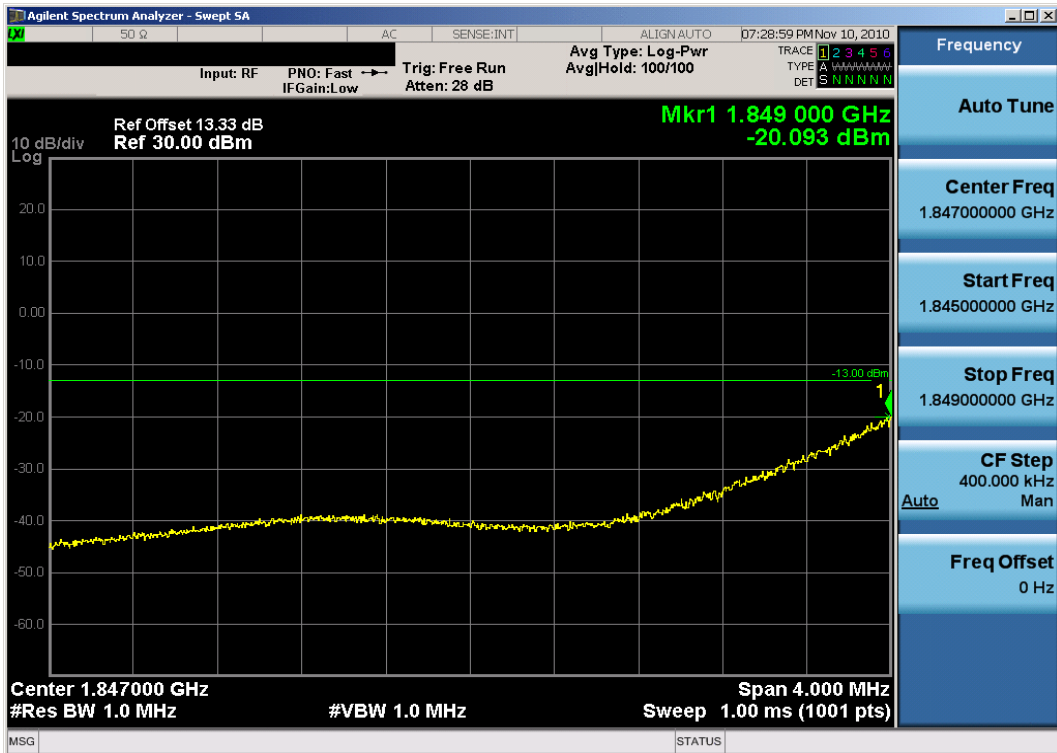


Plot 7-58. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 73 of 79

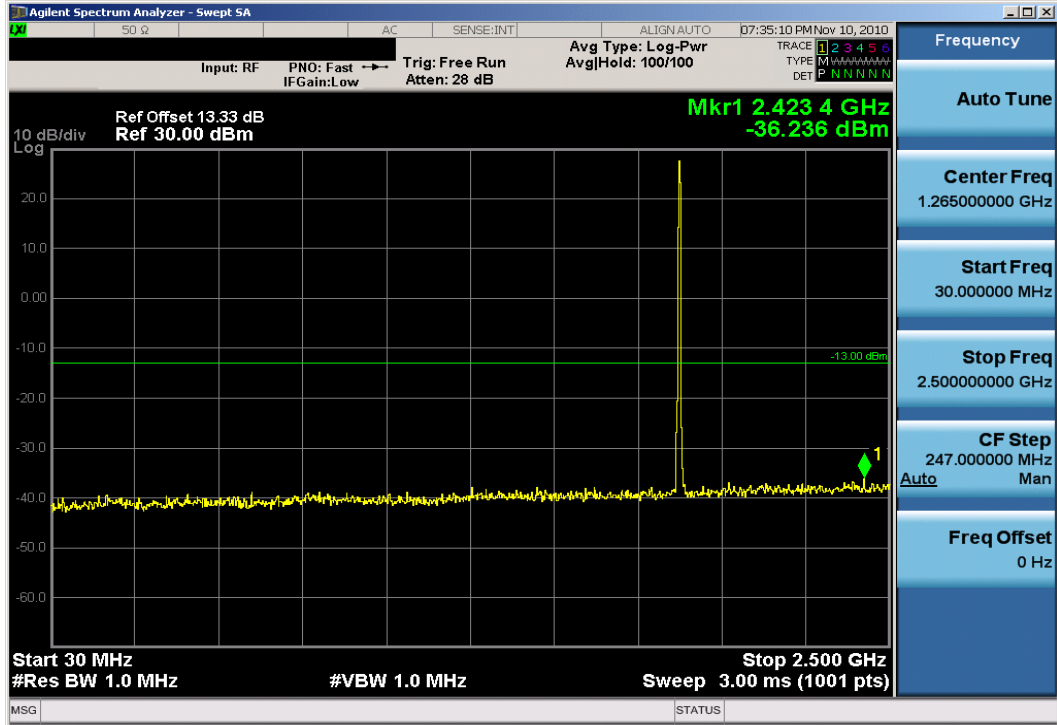


Plot 7-59. Band Edge Plot (PCS CDMA Mode – Ch. 25)

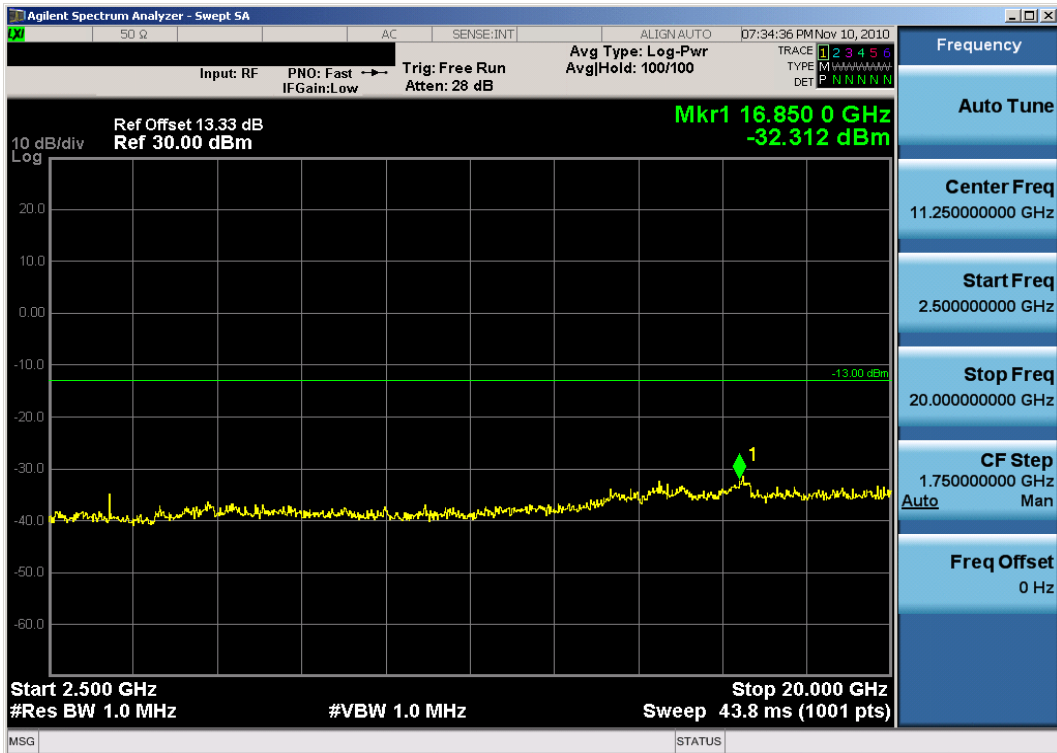


Plot 7-60. 4MHz Span Plot (PCS CDMA Mode – Ch. 25)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 74 of 79

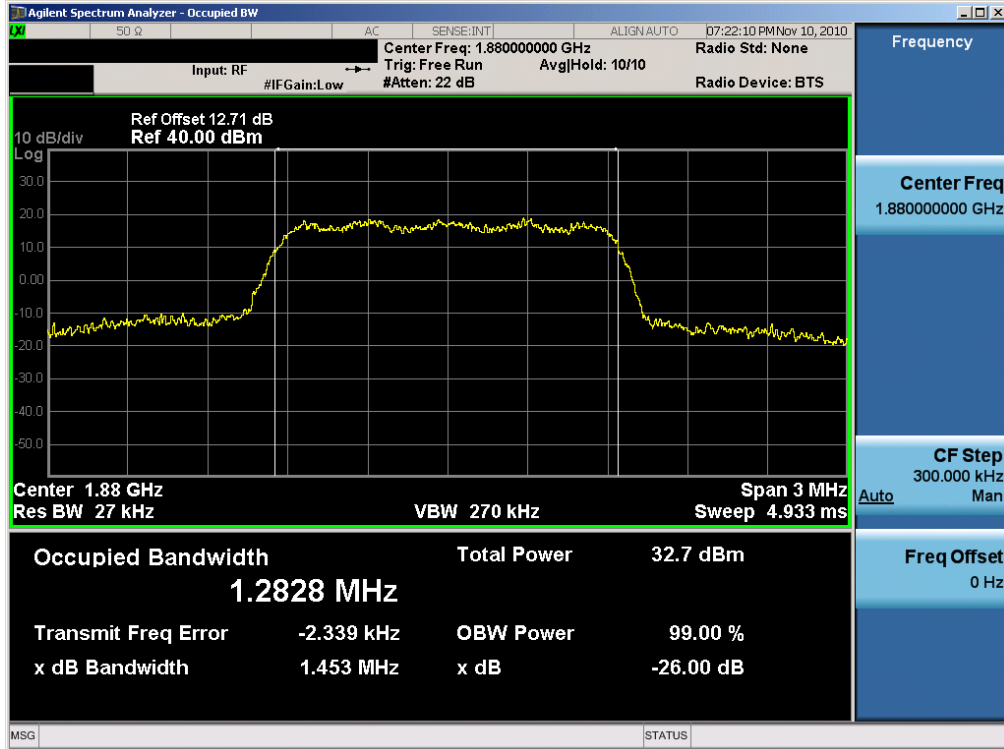


Plot 7-61. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

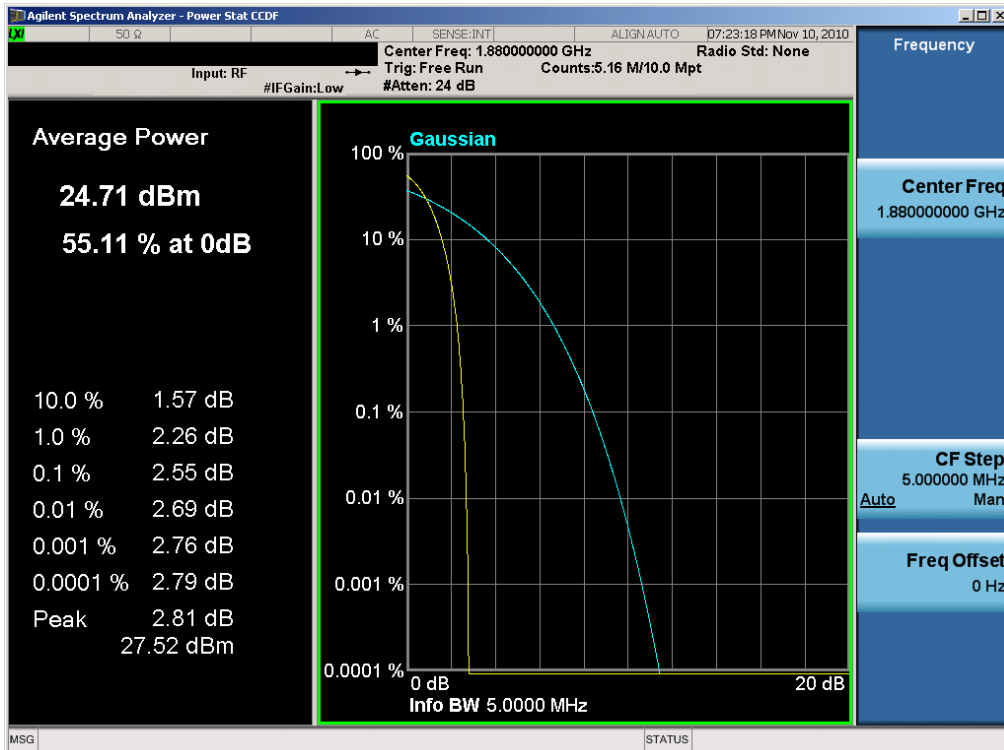


Plot 7-62. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 75 of 79

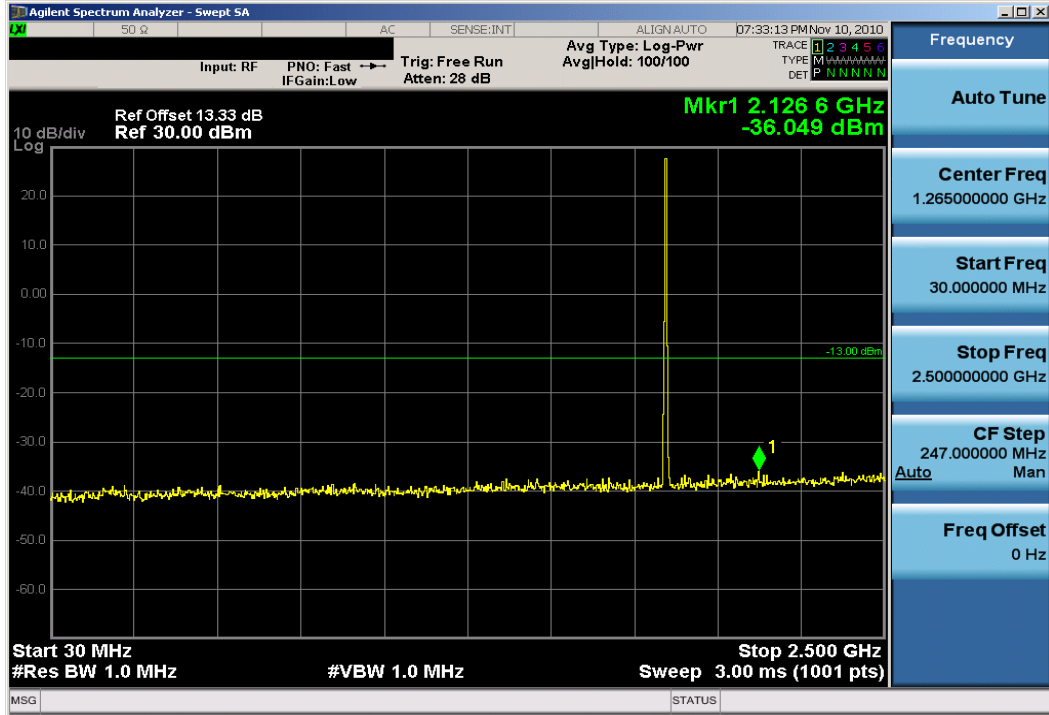


Plot 7-63. Occupied Bandwidth Plot (PCS CDMA Mode – Ch. 600)

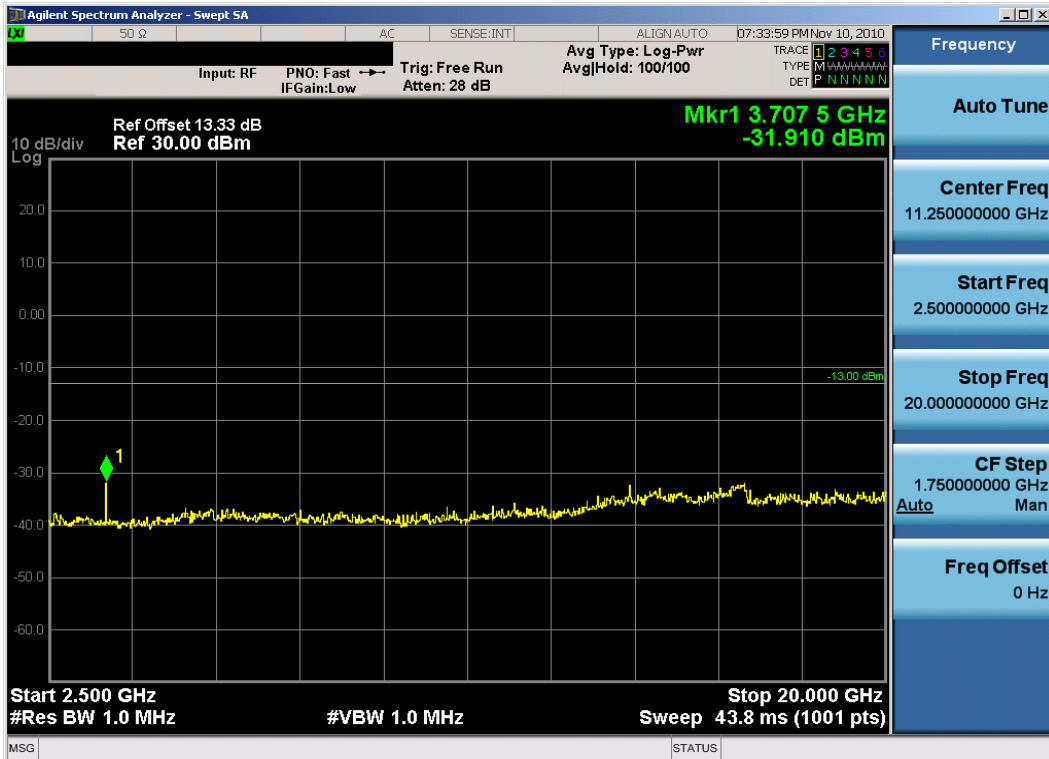


Plot 7-64. Peak-Average Ratio Plot (PCS CDMA Mode – Ch. 600)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 76 of 79



Plot 7-65. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)

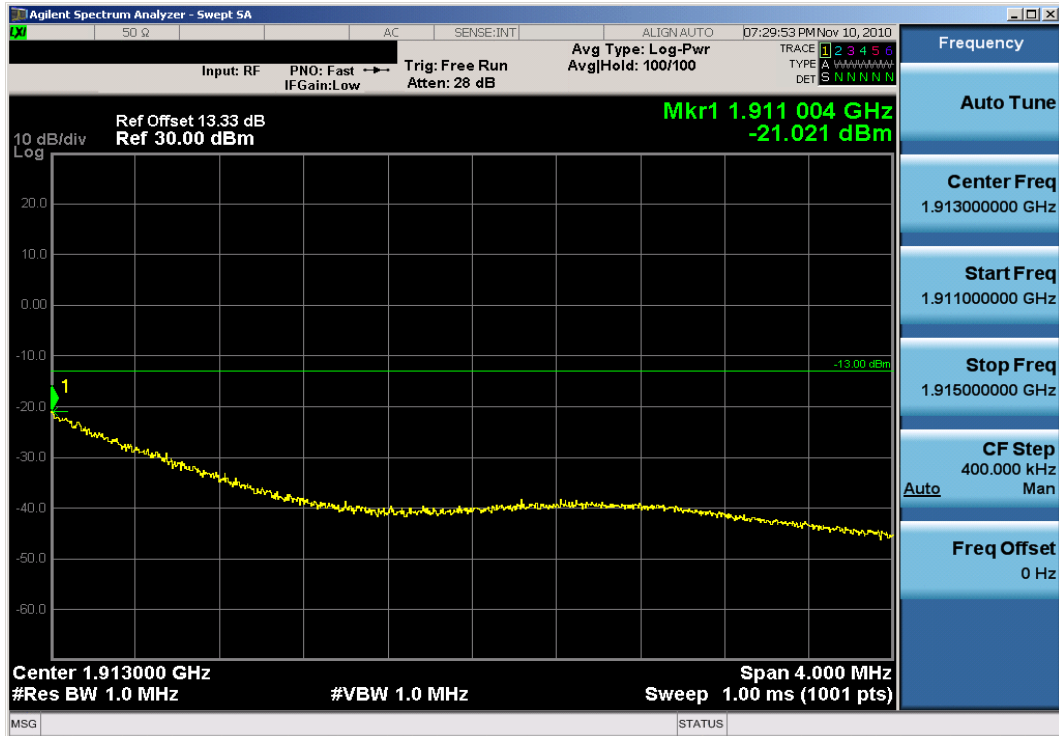


Plot 7-66. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 77 of 79



Plot 7-67. Band Edge Plot (PCS CDMA Mode – Ch. 1175)





Plot 7-68. 4MHz Span Plot (PCS CDMA Mode – Ch. 1175)

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 78 of 79

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sierra Wireless Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module FCC ID: N7NMC7750** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules and RSS-132 and RSS-133 of the Industry Canada rules.

FCC ID: N7NMC7750		FCC Pt. 22/24 GSM/EDGE/CDMA/WCDMA TEST REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1010261758.N7N-R2	Test Dates: Oct. 25 - Nov. 11, 2010	EUT Type: Cellular/PCS GSM/EDGE/WCDMA/CDMA/EvDO and 700MHz LTE Wireless Module		Page 79 of 79