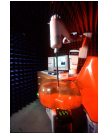




# PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road, Columbia, MD 21045 USA  
Tel. 410.290.6652 / Fax 410.290.6554  
<http://www.pctestlab.com>



## CERTIFICATE OF COMPLIANCE FCC Part 22 & 24 Certification

**Applicant Name:**

Wavecom SA  
3 esplanade du Foncet  
Issy-les-Moulineaux Cedex, 92442  
France

**Date of Testing:**

February 24 - 25, 2009

**Test Site/Location:**

PCTEST Lab., Columbia, MD, USA

**Test Report Serial No.:**

0902100237.O9E

**FCC ID:** O9EQ26ELITE

**APPLICANT:** WAVECOM SA

**Application Type:** Certification

**FCC Classification:** PCS Licensed Transmitter (PCB)

**FCC Rule Part(s):** §2; §22(H), §24(E)

**EUT Type:** Cellular/PCS CDMA Module

**Model(s):** Q26 ELITE

**Tx Frequency Range:** 824.70 - 848.31MHz (Cell. CDMA) / 1851.25 - 1908.75MHz (PCS CDMA)

**Max. RF Output Power:** 274.16 mW (24.38 dBm) Conducted (Cell. CDMA)

242.66 mW (23.85 dBm) Conducted (PCS CDMA)

**Emission Designator(s):** 1M28F9W (CDMA) / 1M27F9W (PCS)

**Test Device Serial No.:** *identical prototype* [S/N: A1000009400240]

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.

**Grant Conditions:** Power output listed is conducted for Part 22 and Part 24.

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



  
Randy Ortanez  
President



|   |   |  |   |  |
|---|---|--|---|--|
| <b>FCC ID:</b> O9EQ26ELITE                |  | <b>FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>0902100237.O9E | <b>Test Dates:</b><br>February 24 - 25, 2009  | <b>EUT Type:</b><br>Cellular/PCS CDMA Module                     |   | Page 1 of 35                           |

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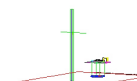
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# MEASUREMENT REPORT

## FCC Part 22 & 24



### §2.1033 General Information



**APPLICANT:** Wavecom SA  
**APPLICANT ADDRESS:** 3 esplanade du Foncet  
 Issy-les-Moulineaux Cedex, 92442  
**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:** Q26 ELITE  
**FCC ID:** O9EQ26ELITE  
**FCC CLASSIFICATION:** PCS Licensed Transmitter (PCB)  
**EMISSION DESIGNATOR(S):** 1M28F9W (CDMA) / 1M27F9W (PCS)  
**MODE:** CDMA  
**FREQUENCY TOLERANCE:**  $\pm 0.00025\%$  (2.5 ppm)  
**Test Device Serial No.:** A1000009400240 ☐ Production ☒ Pre-Production ☐ Engineering  
**DATE(S) OF TEST:** February 24 - 25, 2009  
**TEST REPORT S/N:** 0902100237.O9E

### Test Facility / Accreditations

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



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

|                                    |   |  |   |                                 |
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## 1.0 INTRODUCTION

### 1.1 Scope

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

### 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't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (See Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006.

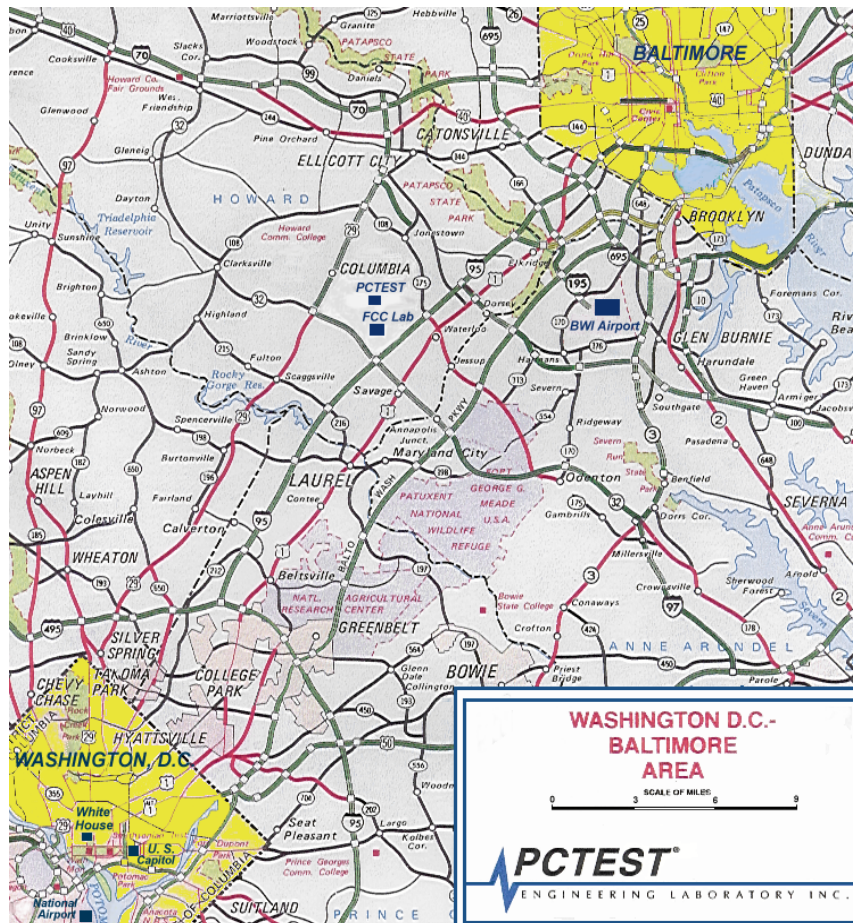



Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Wavecom Cellular/PCS CDMA Module FCC ID: O9EQ26ELITE**. The EUT consisted of the following component(s):

| Trade Name / Base Model    | FCC ID      | Description              |
|----------------------------|-------------|--------------------------|
| Wavecom / Model: Q26 ELITE | O9EQ26ELITE | Cellular/PCS CDMA Module |

**Table 2-1. EUT Equipment Description**

### 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.

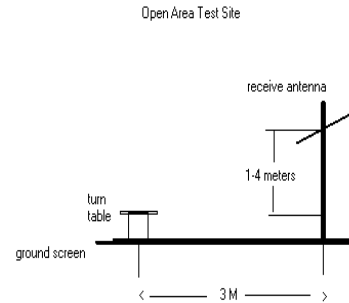
|                                    |   |  |   |                                 |
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## 3.0 DESCRIPTION OF TESTS

### 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 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. 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. 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**

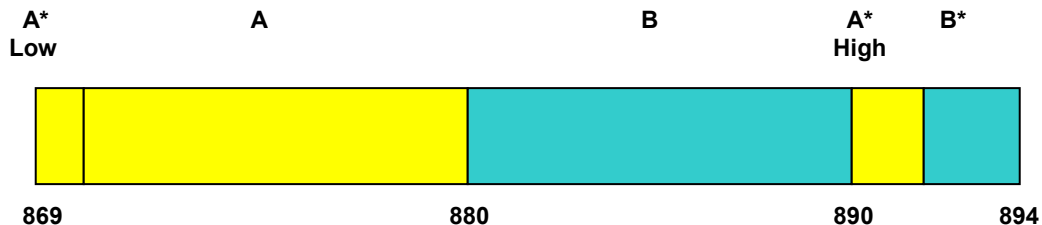
Deviation from Measurement Procedure.....None

### 3.2 Occupied Bandwidth Emission Limits

§2.1049, 22.917(a), 24.238(a)

- 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.
- When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

### 3.3 Cellular - Base Frequency Blocks




**BLOCK 1:** 869 – 880 MHz (A\* Low + A)

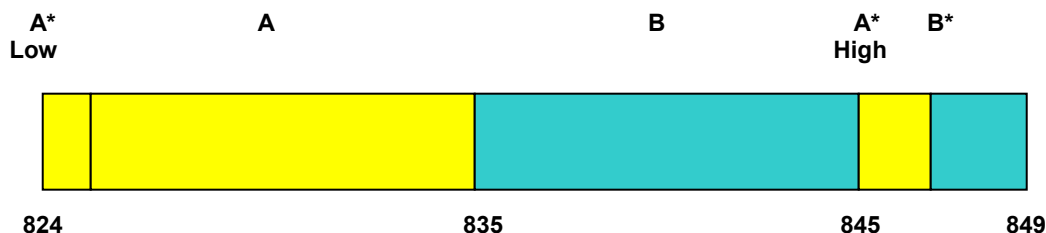
**BLOCK 3:** 890 – 891.5 MHz (A\* High)

**BLOCK 2:** 880 – 890 MHz (B)

**BLOCK 4:** 891.5 – 894 MHz (B\*)

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
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### 3.4 Cellular - Mobile Frequency Blocks



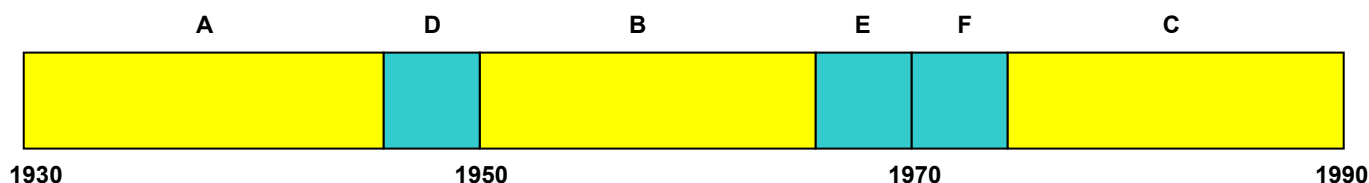
BLOCK 1: 824 – 835 MHz (A\* Low + A)

BLOCK 3: 845 – 846.5 MHz (A\* High)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B\*)

### 3.5 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

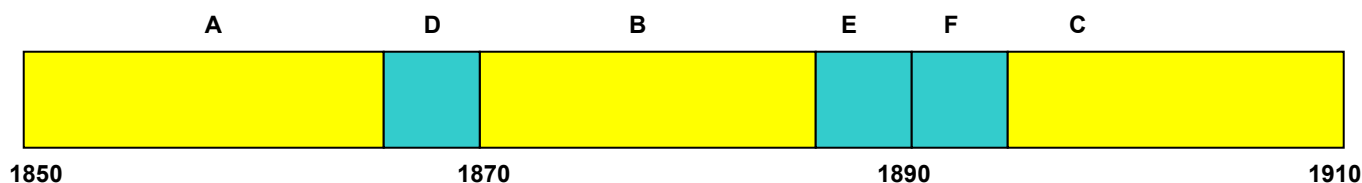
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

### 3.6 PCS - Mobile Frequency Blocks



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 5: 1890 – 1895 MHz (F)



BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 6: 1895 – 1910 MHz (C)

### 3.7 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, 22.917(a), 24.238(a)

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 10<sup>th</sup> harmonic.

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
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### 3.8 Radiated Spurious and Harmonic Emissions

§2.1053, 22.917(a), 24.238(a)

Spurious and harmonic radiated emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 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 10<sup>th</sup> 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 R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits. This unit was tested with the antenna port terminated in 50Ω.

### 3.9 Peak-Average Ratio

§24.232(d)

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.

### 3.10 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235



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 equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

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

#### Time Period and Procedure:

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

|                                    |   |  |   |                                 |
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## 4.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

| Manufacturer      | Model            | Description                        | Cal Date  | Cal Interval | Cal Due   | Serial Number |
|-------------------|------------------|------------------------------------|-----------|--------------|-----------|---------------|
| -                 | 263-10dB         | (DC-18GHz) 10 dB Attenuator        | N/A       |              | N/A       | N/A           |
| -                 | No.165           | (30MHz - 1000MHz) RG58 Coax Cable  | N/A       |              | N/A       | N/A           |
| -                 | No.166           | (1000-26500MHz) Microwave RF Cable | N/A       |              | N/A       | N/A           |
| -                 | No.167           | (100kHz - 100MHz) RG58 Coax Cable  | N/A       |              | N/A       | N/A           |
| Agilent           | 11713A           | Attenuation/Switch Driver          | 12/4/2008 | Annual       | 12/4/2009 | 3439A02645    |
| Agilent           | 8449B            | (1-26.5GHz) Pre-Amplifier          | 12/4/2008 | Annual       | 12/4/2009 | 3008A00985    |
| Agilent           | 8495A            | (0-70dB) DC-4GHz Attenuator        | N/A       |              | N/A       | N/A           |
| Agilent           | 85650A           | Quasi-Peak Adapter                 | 12/4/2008 | Annual       | 12/4/2009 | 3303A01872    |
| Agilent           | 8566B            | (100Hz-22GHz) Spectrum Analyzer    | 12/5/2008 | Annual       | 12/5/2009 | 3638A08713    |
| Agilent           | 8591A            | (9kHz-1.8GHz) Spectrum Analyzer    | 8/19/2008 | Annual       | 8/19/2009 | 3144A02458    |
| Agilent           | E4432B           | ESG-D Series Signal Generator      | 8/18/2008 | Annual       | 8/18/2009 | US40053896    |
| Agilent           | E8257D           | (250kHz-20GHz) Signal Generator    | 3/25/2009 | Biennial     | 3/25/2011 | MY45470194    |
| Agilent           | N9020A           | MXA Signal Analyzer                | 9/17/2008 | Annual       | 9/17/2009 | US46470561    |
| Compliance Design | Roberts          | Dipole Set                         | 11/9/2007 | Biennial     | 11/9/2009 | 146           |
| Compliance Design | Roberts          | Dipole Set                         | 11/9/2007 | Biennial     | 11/9/2009 | 147           |
| Emco              | 3115             | Horn Antenna (1-18GHz)             | 9/24/2007 | Biennial     | 9/24/2009 | 9704-5182     |
| Emco              | 3115             | Horn Antenna (1-18GHz)             | 10/4/2007 | Biennial     | 10/4/2009 | 9205-3874     |
| Espec             | ESX-2CA          | Environmental Chamber              | 4/12/2008 | Annual       | 4/12/2009 | 17620         |
| Gigatronics       | 80701A           | (0.05-18GHz) Power Sensor          | 8/18/2008 | Annual       | 8/18/2009 | 1833460       |
| Gigatronics       | 8651A            | Universal Power Meter              | 8/18/2008 | Annual       | 8/18/2009 | 1835299       |
| 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             | 5/29/2008 | Annual       | 5/29/2009 | 836371/0079   |
| Schwarzbeck       | UHA9105          | Dipole Antenna (400 - 1GHz) Rx     | 6/19/2007 | Biennial     | 6/18/2009 | 9105-2404     |
| Schwarzbeck       | UHA9105          | Dipole Antenna (400 - 1GHz) Tx     | 6/19/2007 | Biennial     | 6/18/2009 | 9105-2403     |
| Solar Electronics | 8012-50-R-24-BNC | LISN                               | 11/8/2007 | Biennial     | 11/8/2009 | 310233        |
| Sunol             | DRH-118          | Horn Antenna (1 - 18GHz)           | 5/9/2007  | Biennial     | 5/9/2009  | A050307       |

Table 4-1. Test Equipment

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
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## 5.0 SAMPLE CALCULATIONS

### Emission Designator

**Emission Designator = 1M25F9W**

CDMA BW = 1.25 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: Channel 25 PCS Mode 2<sup>nd</sup> Harmonic (3702.50 MHz)**

The receive analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the receive analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3702.50 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.

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



### 6.1 Summary

Company Name: Wavecom SA  
 FCC ID: O9EQ26ELITE  
 FCC Classification: PCS Licensed Transmitter (PCB)  
 Mode(s): CDMA

| FCC Part Section(s)                    | Test Description   | Test Limit   | Test Condition                   | Test Result | Reference           |
|--|--|--|----------------------------------|-------------|---------------------|
| TRANSMITTER MODE (TX)                  |  |  |                                  |             |                     |
| 2.1049, 22.917(a), 24.238(a)           | Occupied Bandwidth   | N/A  | CONDUCTED                        | PASS        | Section 7.0         |
| 2.1051, 22.917(a), 24.238(a)           | Band Edge / Conducted Spurious Emissions                                       | < 43 + 10log <sub>10</sub> (P[Watts]) at Band Edge and for all out-of-band emissions |                                  | PASS        | Section 7.0         |
| 24.232(d)                              | Peak-Average Ratio   | < 13 dB  |                                  | PASS        | Section 7.0         |
| 2.1046                                 | Transmitter Conducted Output Power   | N/A  |                                  | PASS        | Section 6.2         |
| 2.1053, 22.917(a), 24.238(a)           | Undesirable Emissions  | < 43 + 10log <sub>10</sub> (P[Watts]) for all out-of-band emissions                  | RADIATED                         | PASS        | Sections 6.3, 6.4   |
| 2.1055, 22.355, 24.235                 | Frequency Stability  | < 2.5 ppm  |                                  | PASS        | Sections 6.5, 6.6   |
| RECEIVER MODE (RX) / DIGITAL EMISSIONS |  |  |                                  |             |                     |
| 15.107                                 | AC Conducted Emissions 150kHz – 30MHz  | < FCC 15.107 limits  | LINE CONDUCTED                   | PASS        | Pt. 15B Test Report |
| 15.109                                 | General Field Strength Limits (Restricted Bands and Radiated Emissions Limits) | < FCC 15.109 limits  | RADIATED (30MHz-1GHz) (1-25 GHz) | PASS        | Pt. 15B Test Report |

**Table 6-1. Summary of Test Results**

**Note:** This unit was tested with the antenna port terminated in 50Ω.

|                                    |   |   |   |                                 |
|------------------------------------|---|---|---|---------------------------------|
| FCC ID: O9EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.O9E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                 | Page 11 of 35   |                                 |

## 6.2 Conducted Output Power

### §2.1046

This device was tested under all R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits.

### Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by "SAR Measurement Procedures for 3G Devices", June 2006.



1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 6-2 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH0 and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH0 data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 6-3 was applied.
5. FCHs were configured at full rate for maximum power with "All Up" power control bits.

| Parameter                    | Units        | Value |
|------------------------------|--------------|-------|
| $I_{or}$                     | dBm/1.23 MHz | -86   |
| $\frac{Pilot E_c}{I_{or}}$   | dB           | -7    |
| $\frac{Traffic E_c}{I_{or}}$ | dB           | -7.4  |

**Table 6-2. Parameters for Max. Power for RC3**

| CDMA 2000 | Channel      | SO55 [dBm] | TDSO SO32 [dBm] |
|-----------|--------------|------------|-----------------|
|           | F-RC         | RC3        | RC3             |
| Band      | Vocoder Rate | Full       | Full            |
| Cellular  | 1013         | 24.32      | 24.38           |
|           | 384          | 24.24      | 24.18           |
|           | 777          | 23.98      | 24.04           |
| PCS       | 25           | 23.75      | 23.79           |
|           | 600          | 23.81      | 23.85           |
|           | 1175         | 23.80      | 23.68           |

**Table 6-3. Maximum Conducted Output Power Table for Q26 ELITE**

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 12 of 35                   |

### 6.3 Cellular CDMA Radiated Measurements

§2.1053, 22.917(a)

#### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz  
 CHANNEL: 1013  
 MODULATION SIGNAL: CDMA (Internal)  
 DISTANCE: 3 meters  
 LIMIT:  $43 + 10 \log_{10} (W) =$  -13.00 dBm

| FREQUENCY<br>(MHz) | LEVEL @<br>ANTENNA<br>TERMINALS<br>(dBm) | SUBSTITUTE<br>ANTENNA GAIN<br>(dBd) | CORRECT<br>GENERATOR<br>LEVEL<br>(dBm) | POL<br>(H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 1649.40            | -48.76                                   | 6.08                                | -42.68                                 | V            | 42.7  |
| 2474.10            | -56.66                                   | 6.08                                | -50.58                                 | V            | 50.6  |
| 3298.80            | -54.76                                   | 6.53                                | -48.23                                 | V            | 48.2  |
| 4123.50            | -65.08                                   | 6.87                                | -58.21                                 | V            | 58.2  |
| 4948.20            | -64.16                                   | 7.21                                | -56.94                                 | V            | 56.9  |



**Table 6-4. 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 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 R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits. This unit was tested with its standard battery. This unit was tested with the antenna port terminated in 50Ω.

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 13 of 35                   |

## Cellular CDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.52 MHz  
 CHANNEL: 384  
 MODULATION SIGNAL: CDMA (Internal)  
 DISTANCE: 3 meters  
 LIMIT:  $43 + 10 \log_{10} (W) =$  -13.00 dBm

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBd) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 1673.04         | -56.18                          | 6.09                          | -50.09                        | V         | 50.1  |
| 2509.56         | -64.39                          | 6.55                          | -57.84                        | V         | 57.8  |
| 3346.08         | -63.03                          | 6.89                          | -56.14                        | V         | 56.1  |
| 4182.60         | -64.49                          | 7.43                          | -57.05                        | V         | 57.1  |
| 5019.12         | -62.52                          | 8.35                          | -54.18                        | V         | 54.2  |



Table 6-5. 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 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 R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits. This unit was tested with its standard battery. This unit was tested with the antenna port terminated in 50Ω.

|                                    |   |   |   |                                 |
|------------------------------------|---|---|---|---------------------------------|
| FCC ID: O9EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                 |   | Page 14 of 35                   |



## Cellular CDMA Radiated Measurements (Cont'd)

§2.1053, 22.917(a)

### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz  
 CHANNEL: 777  
 MODULATION SIGNAL: CDMA (Internal)  
 DISTANCE: 3 meters  
 LIMIT:  $43 + 10 \log_{10} (W) =$  -13.00 dBm

| FREQUENCY<br>(MHz) | LEVEL @<br>ANTENNA<br>TERMINALS<br>(dBm) | SUBSTITUTE<br>ANTENNA GAIN<br>(dBd) | CORRECT<br>GENERATOR<br>LEVEL<br>(dBm) | POL<br>(H/V) | (dBc) |
|--------------------|--|-------------------------------------|--|--------------|-------|
| 1696.62            | -42.75                                   | 6.09                                | -36.66                                 | V            | 36.7  |
| 2544.93            | -41.38                                   | 6.57                                | -34.81                                 | V            | 34.8  |
| 3393.24            | -58.29                                   | 6.91                                | -51.38                                 | V            | 51.4  |
| 4241.55            | -61.66                                   | 7.65                                | -54.02                                 | V            | 54.0  |
| 5089.86            | -61.86                                   | 8.33                                | -53.53                                 | V            | 53.5  |



Table 6-6. 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 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 R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits. This unit was tested with its standard battery. This unit was tested with the antenna port terminated in 50Ω.

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 15 of 35                   |

## 6.4 PCS CDMA Radiated Measurements

§2.1053, 24.238(a)

### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1851.25 MHz  
 CHANNEL: 25  
 MODULATION SIGNAL: CDMA (Internal)  
 DISTANCE: 3 meters  
 LIMIT:  $43 + 10 \log_{10} (W) =$  -13.00 dBm

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3702.50         | -49.85                          | 9.02                          | -40.83                        | V         | 40.8  |
| 5553.75         | -44.57                          | 10.40                         | -34.17                        | V         | 34.2  |
| 7405.00         | -51.94                          | 10.51                         | -41.43                        | V         | 41.4  |
| 9256.25         | -55.47                          | 11.84                         | -43.63                        | V         | 43.6  |
| 11107.50        | -52.65                          | 12.76                         | -39.89                        | V         | 39.9  |



Table 6-7. 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 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 R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits. This unit was tested with its standard battery. This unit was tested with the antenna port terminated in 50Ω.

|                                    |   |   |   |                                 |
|------------------------------------|---|---|---|---------------------------------|
| FCC ID: O9EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                 |   | Page 16 of 35                   |

## PCS CDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz  
 CHANNEL: 600  
 MODULATION SIGNAL: CDMA (Internal)  
 DISTANCE: 3 meters  
 LIMIT:  $43 + 10 \log_{10} (W) =$  -13.00 dBm

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3760.00         | -45.38                          | 8.99                          | -36.38                        | V         | 36.4  |
| 5640.00         | -35.51                          | 10.40                         | -25.11                        | V         | 25.1  |
| 7520.00         | -41.71                          | 10.62                         | -31.09                        | V         | 31.1  |
| 9400.00         | -55.19                          | 11.70                         | -43.49                        | V         | 43.5  |
| 11280.00        | -53.08                          | 12.69                         | -40.39                        | V         | 40.4  |



**Table 6-8. 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 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 R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits. This unit was tested with its standard battery. This unit was tested with the antenna port terminated in 50Ω.

|                                    |   |   |   |                                 |
|------------------------------------|---|---|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                 |   | Page 17 of 35                   |

## PCS CDMA Radiated Measurements (Cont'd)

§2.1053, 24.238(a)

### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1908.75 MHz  
 CHANNEL: 1175  
 MODULATION SIGNAL: CDMA (Internal)  
 DISTANCE: 3 meters  
 LIMIT:  $43 + 10 \log_{10} (W) =$  -13.00 dBm

| FREQUENCY (MHz) | LEVEL @ ANTENNA TERMINALS (dBm) | SUBSTITUTE ANTENNA GAIN (dBi) | CORRECT GENERATOR LEVEL (dBm) | POL (H/V) | (dBc) |
|-----------------|---------------------------------|-------------------------------|-------------------------------|-----------|-------|
| 3817.50         | -39.81                          | 8.97                          | -30.84                        | V         | 30.8  |
| 5726.25         | -34.25                          | 10.40                         | -23.85                        | V         | 23.9  |
| 7635.00         | -40.57                          | 10.71                         | -29.86                        | V         | 29.9  |
| 9543.75         | -55.72                          | 11.64                         | -44.09                        | V         | 44.1  |
| 11452.50        | -52.62                          | 12.62                         | -40.00                        | V         | 40.0  |



**Table 6-9. 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 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 R.C.s and S.O.s and the worst case is reported with Test Data Service SO32 with "All Up" power control bits. This unit was tested with its standard battery. This unit was tested with the antenna port terminated in 50Ω.

|                                    |   |   |   |                                 |
|------------------------------------|---|---|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                 |   | Page 18 of 35                   |

## 6.5 Cellular CDMA Frequency Stability Measurements

§2.1055, 22.355

OPERATING FREQUENCY: 836,520,000 Hz

CHANNEL: 384

REFERENCE VOLTAGE: 5 VDC

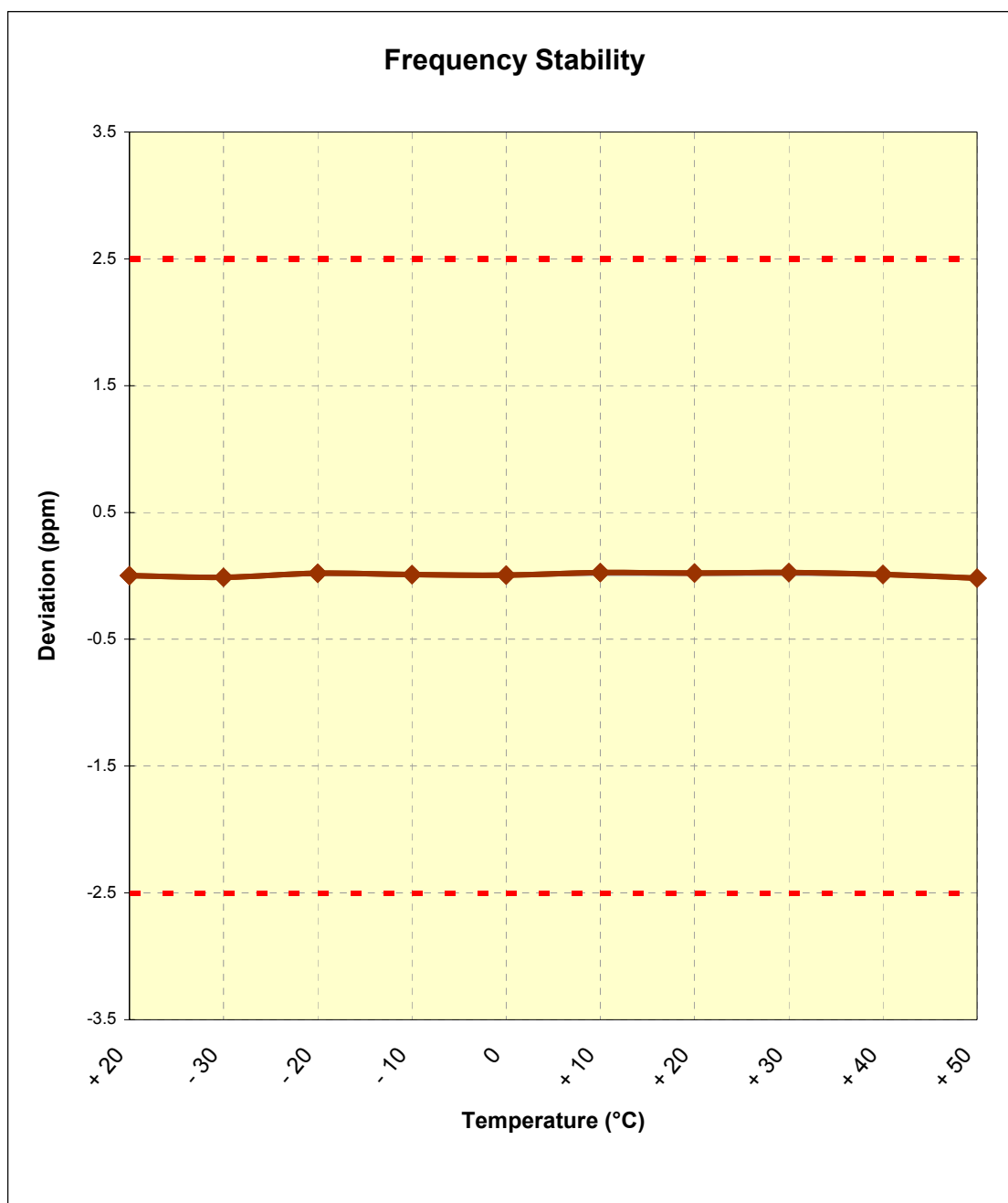
DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 5.00        | + 20 (Ref) | 836,520,001    | 1               | 0.000000      |
| 100 %          |             | - 30       | 836,519,990    | -10             | -0.000001     |
| 100 %          |             | - 20       | 836,520,017    | 17              | 0.000002      |
| 100 %          |             | - 10       | 836,520,009    | 9               | 0.000001      |
| 100 %          |             | 0          | 836,520,005    | 5               | 0.000001      |
| 100 %          |             | + 10       | 836,520,022    | 22              | 0.000003      |
| 100 %          |             | + 20       | 836,520,019    | 19              | 0.000002      |
| 100 %          |             | + 30       | 836,520,022    | 22              | 0.000003      |
| 100 %          |             | + 40       | 836,520,010    | 10              | 0.000001      |
| 100 %          |             | + 50       | 836,519,985    | -15             | -0.000002     |
| 115 %          | 5.75        | + 20       | 836,519,971    | -29             | -0.000003     |
| BATT. ENDPOINT | 4.13        | + 20       | 836,519,979    | -21             | -0.000002     |



Table 6-10. Frequency Stability Data (Cellular CDMA Mode – Ch. 384)

# Cellular CDMA Frequency Stability Measurements (Cont'd)

§2.1055, 22.355



**Figure 6-1. Frequency Stability Graph (Cellular CDMA Mode – Ch. 384)**

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 20 of 35                   |



## 6.6 PCS CDMA Frequency Stability Measurements

§2.1055, 24.235

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 600

REFERENCE VOLTAGE: 5 VDC

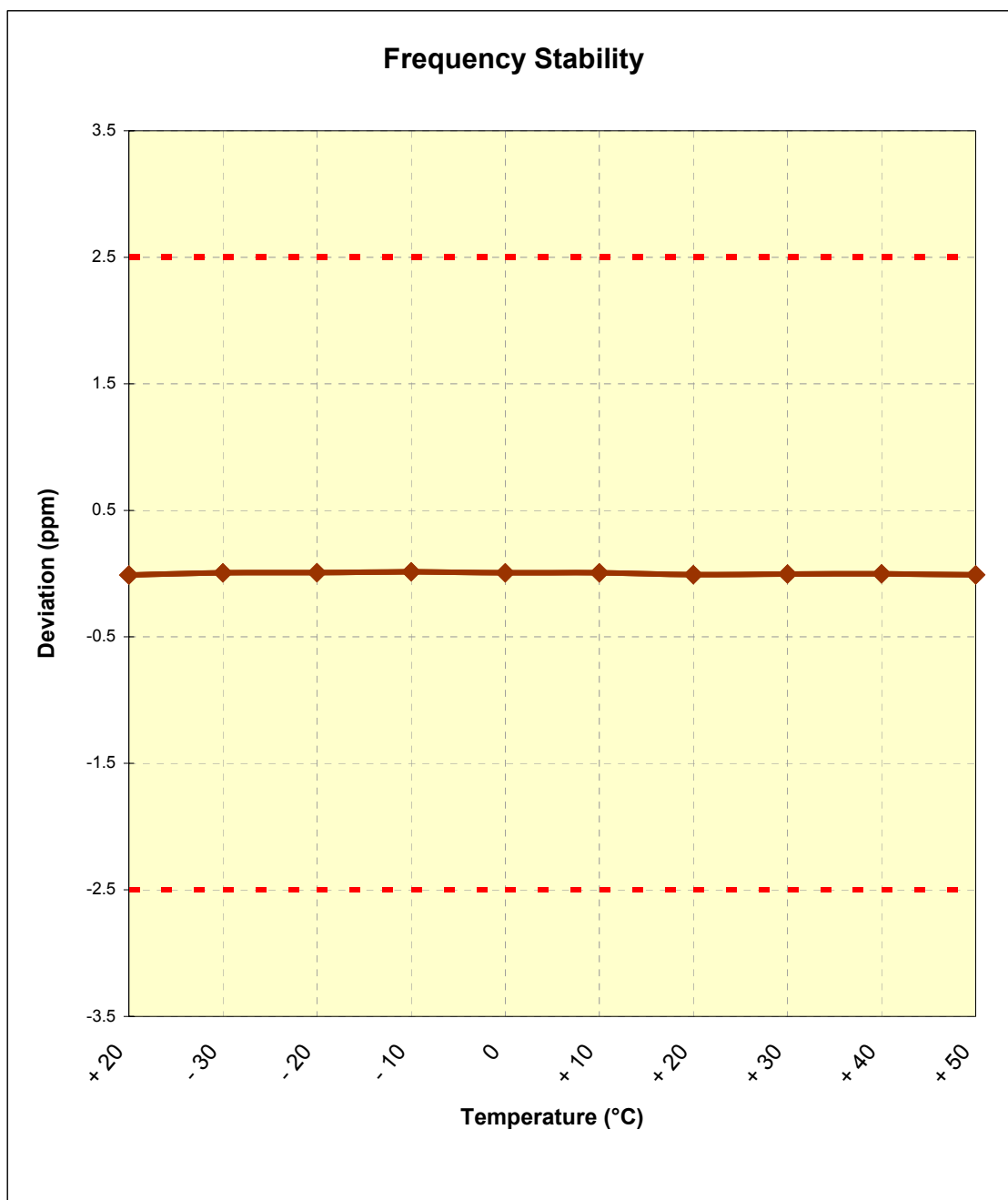
DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 5.00        | + 20 (Ref) | 1,879,999,978  | -22             | -0.000001     |
| 100 %          |             | - 30       | 1,880,000,010  | 10              | 0.000001      |
| 100 %          |             | - 20       | 1,880,000,014  | 14              | 0.000001      |
| 100 %          |             | - 10       | 1,880,000,026  | 26              | 0.000001      |
| 100 %          |             | 0          | 1,880,000,012  | 12              | 0.000001      |
| 100 %          |             | + 10       | 1,880,000,010  | 10              | 0.000001      |
| 100 %          |             | + 20       | 1,879,999,983  | -17             | -0.000001     |
| 100 %          |             | + 30       | 1,879,999,994  | -6              | 0.000000      |
| 100 %          |             | + 40       | 1,879,999,995  | -5              | 0.000000      |
| 100 %          |             | + 50       | 1,879,999,981  | -19             | -0.000001     |
| 115 %          | 5.75        | + 20       | 1,879,999,972  | -28             | -0.000001     |
| BATT. ENDPOINT | 4.13        | + 20       | 1,880,000,016  | 16              | 0.000001      |



Table 6-11. Frequency Stability Data (PCS CDMA Mode – Ch. 600)

## PCS CDMA Frequency Stability Measurements (Cont'd)

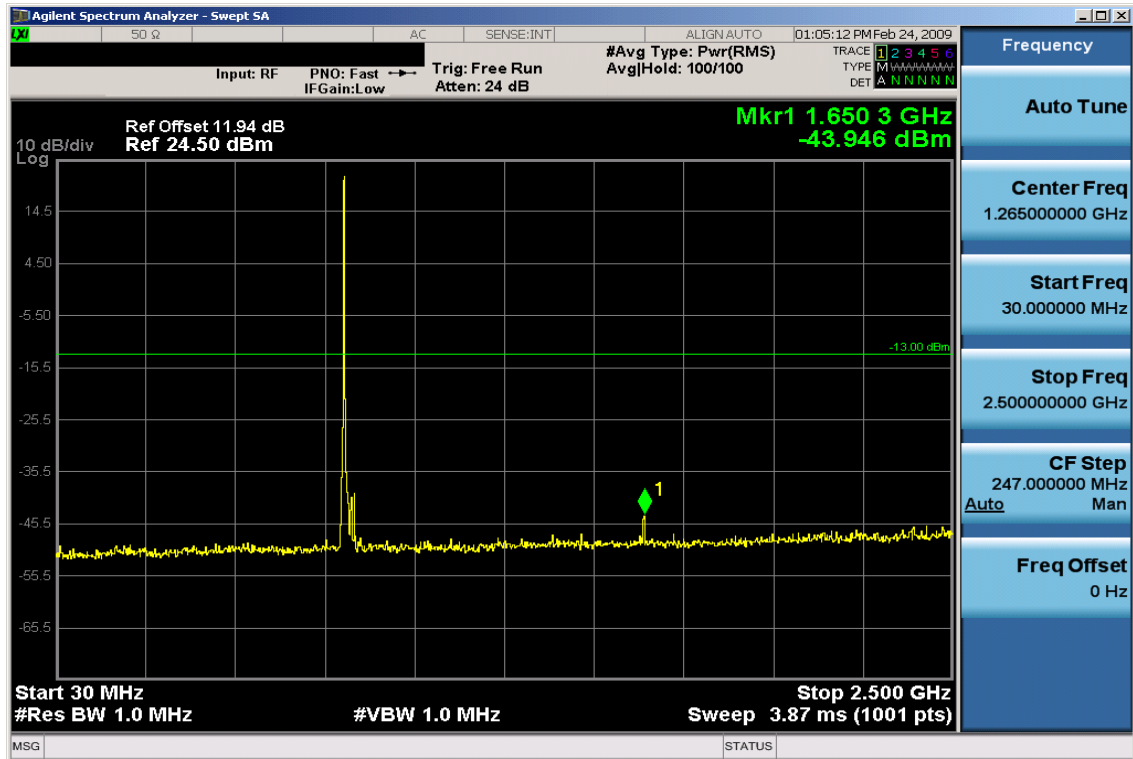
§2.1055, 24.235



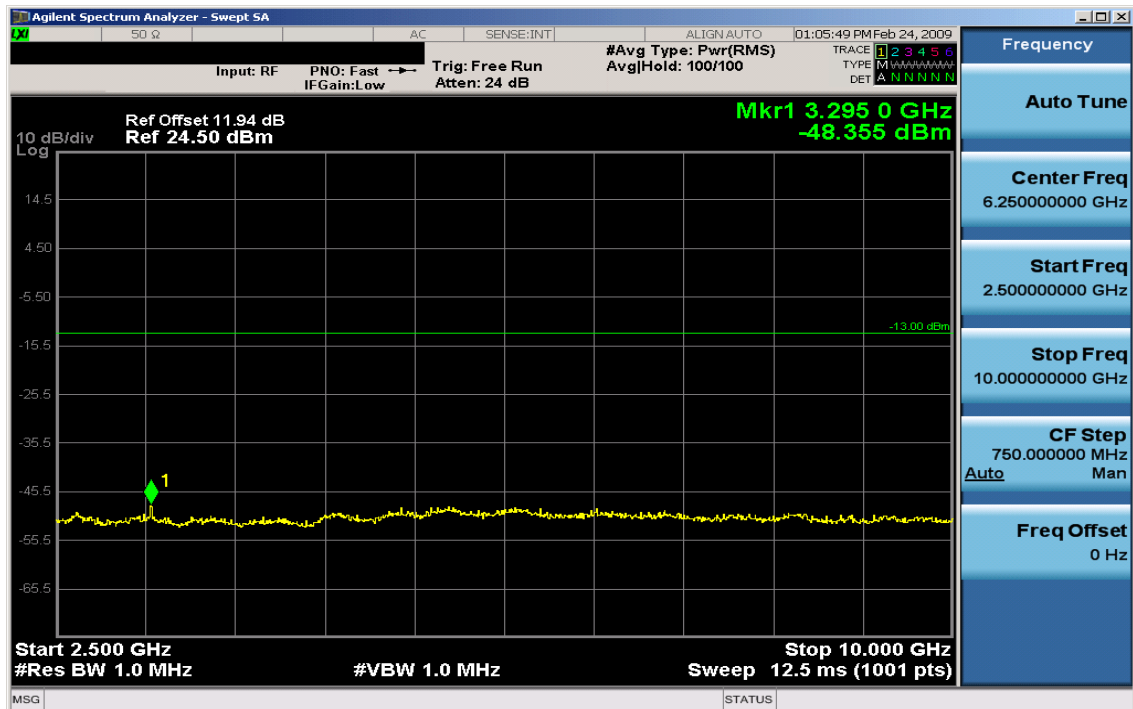
**Figure 6-2. Frequency Stability Graph (PCS CDMA Mode – Ch. 600)**

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                |  | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009   | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 22 of 35                   |

## 7.0 PLOT(S) OF EMISSIONS

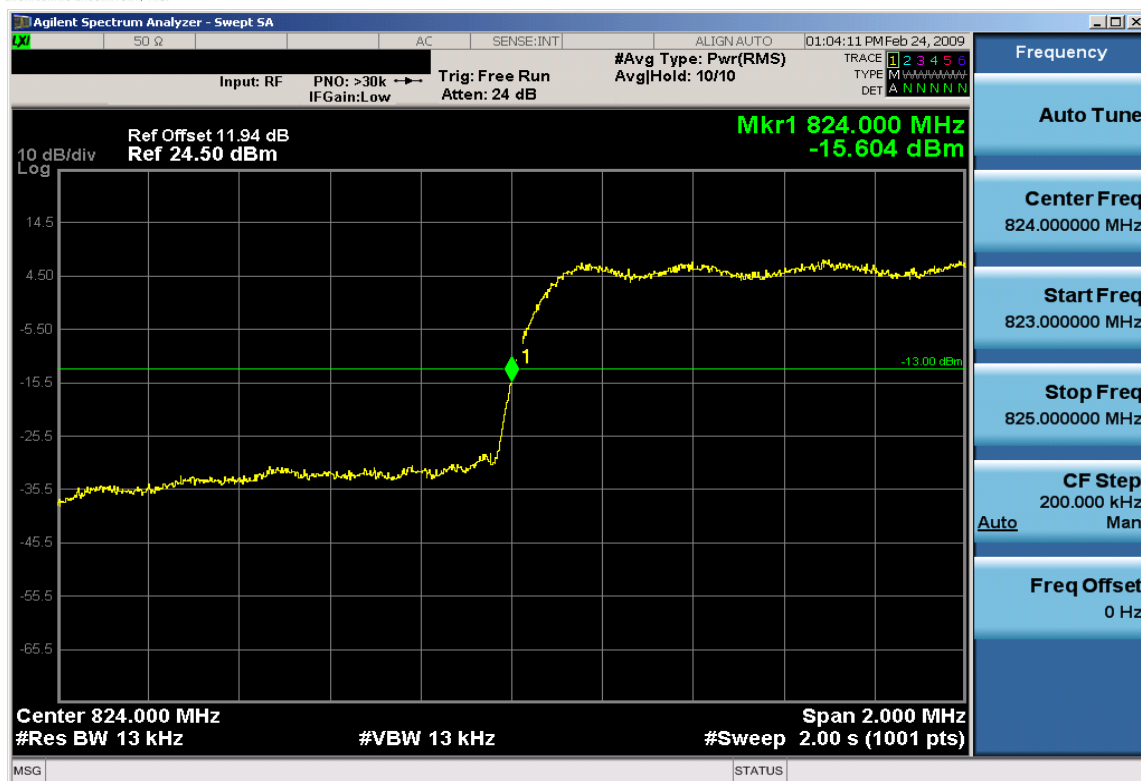


Plot 7-1. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)

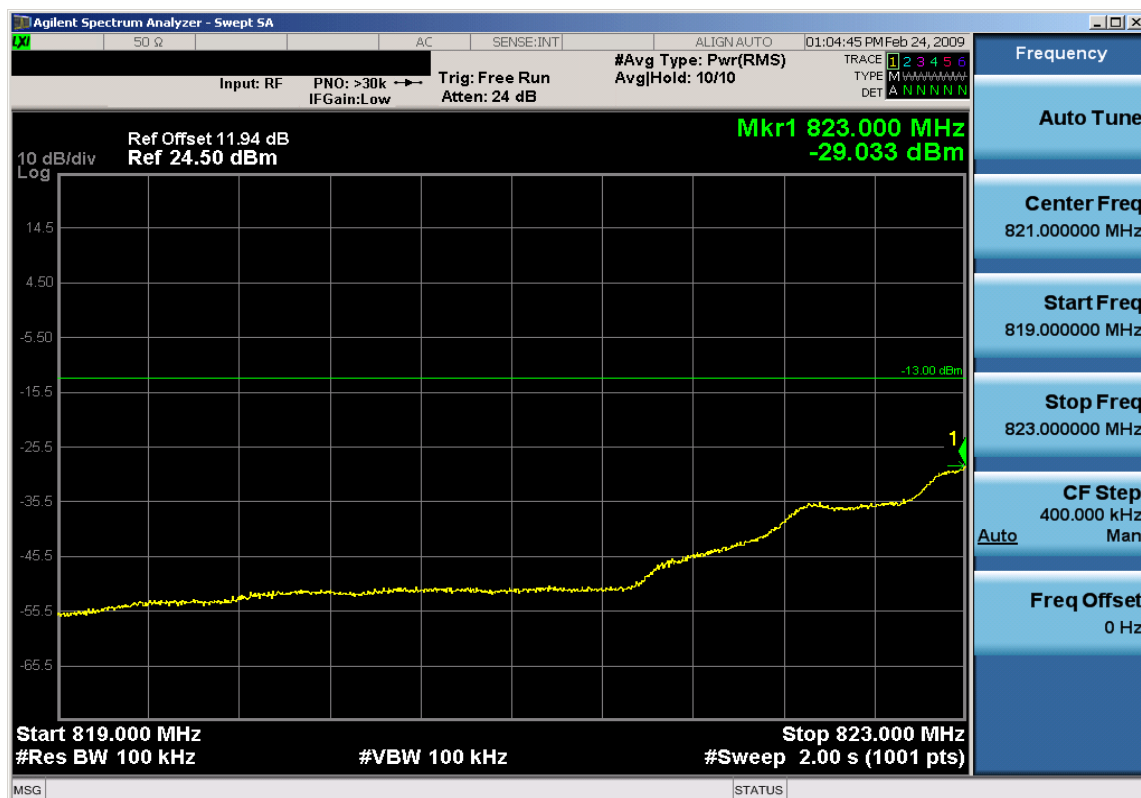


Plot 7-2. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)

|                                    |   |  |  |                                 |
|------------------------------------|---|--|--|---------------------------------|
| FCC ID: 09EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |  | Page 23 of 35                   |

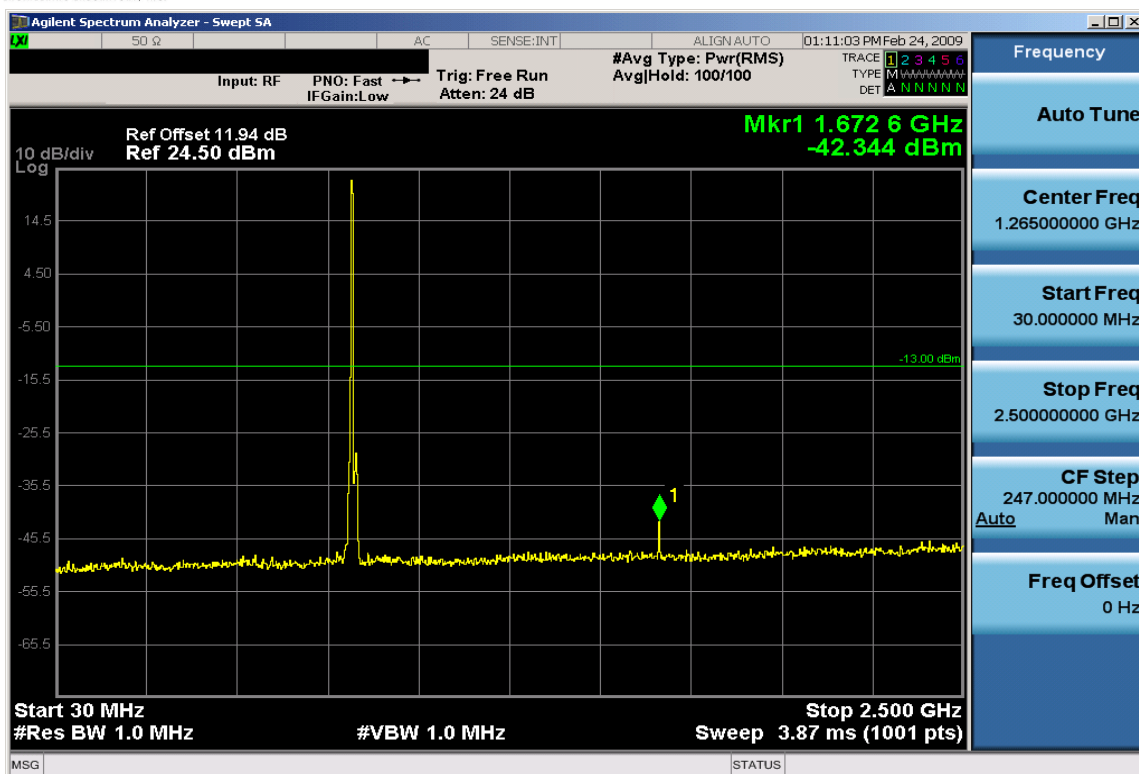


Plot 7-3. Band Edge Plot (Cellular CDMA Mode – Ch. 1013)

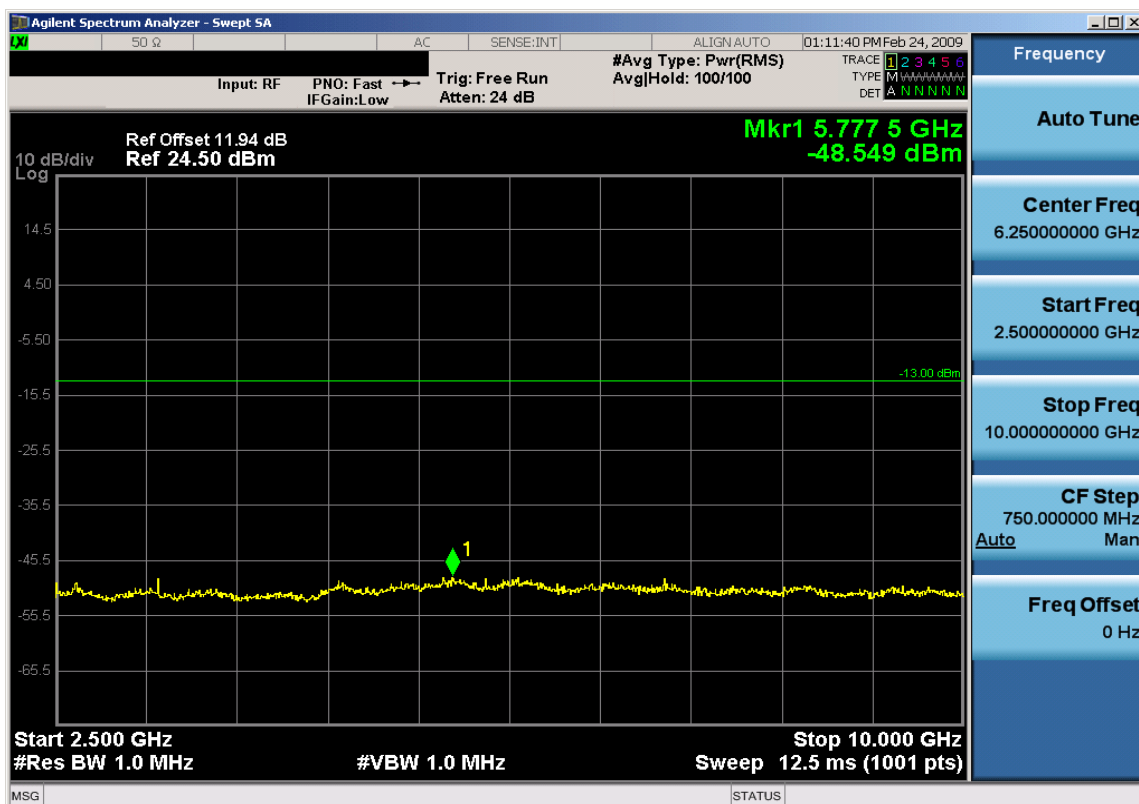


Plot 7-4. 4MHz Span Plot (Cellular CDMA Mode – Ch. 1013)


|                                    |   |  |  |                                 |
|------------------------------------|---|--|--|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |  | Page 24 of 35                   |

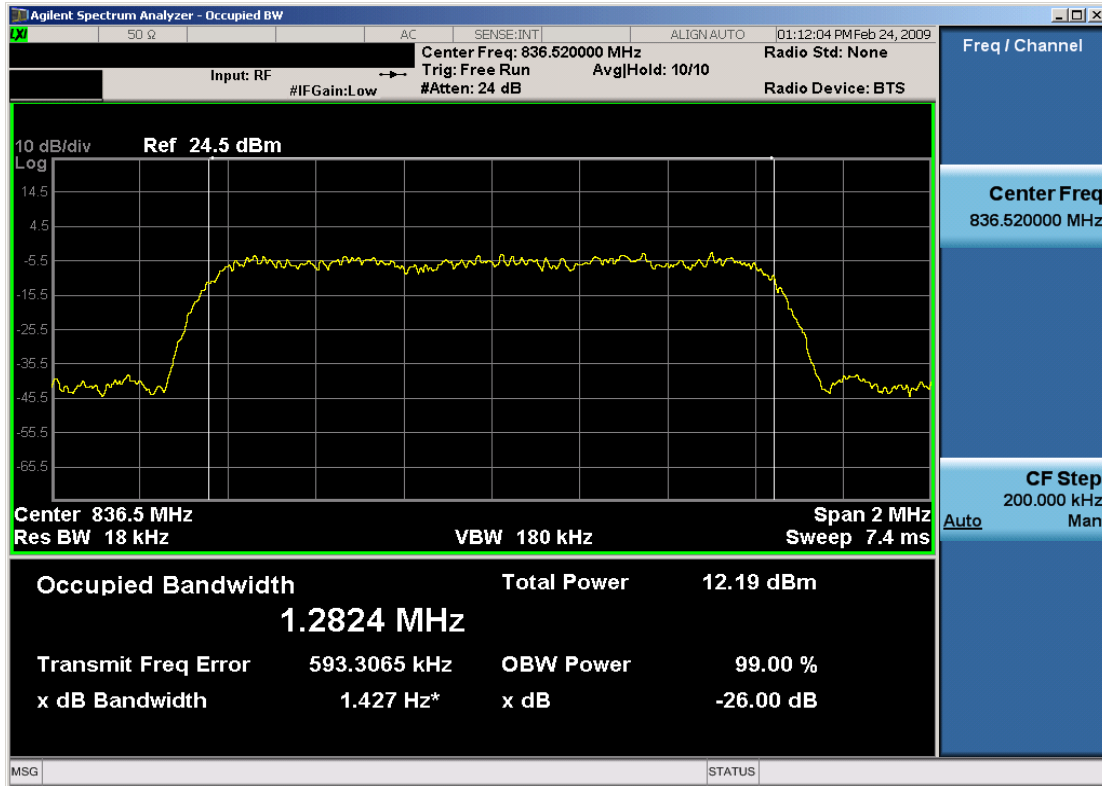


Plot 7-5. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

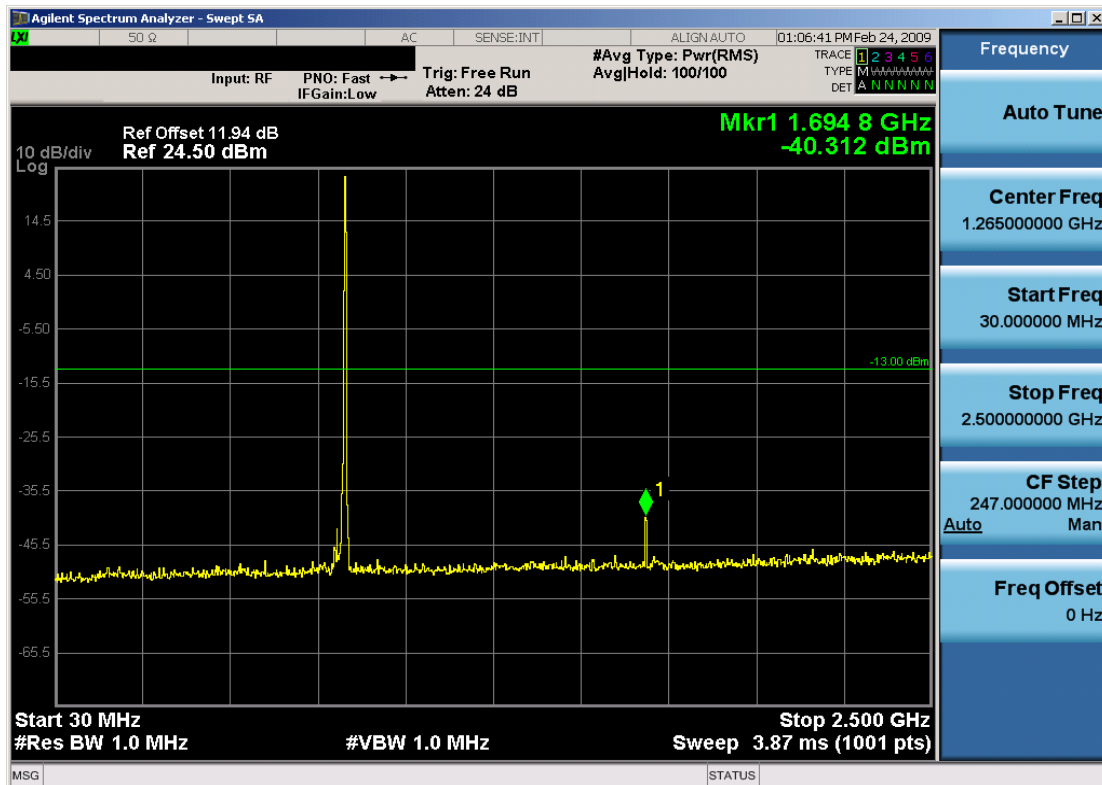


Plot 7-6. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)


|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 25 of 35                   |



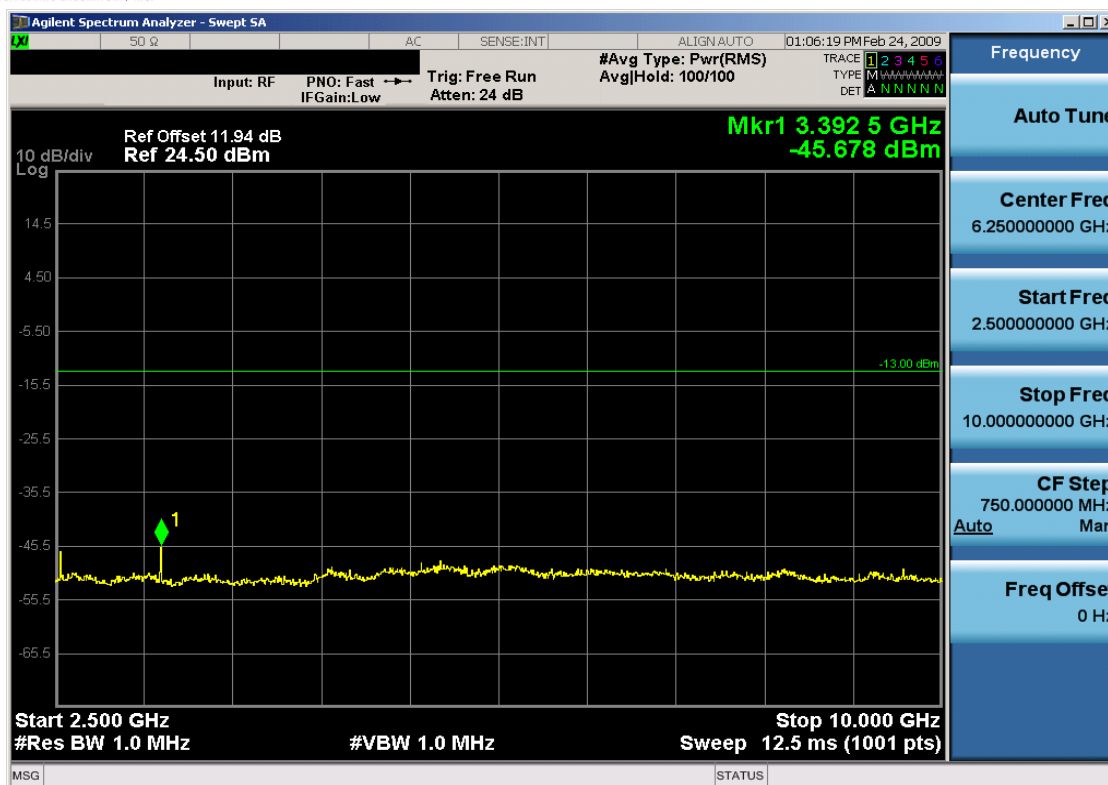
Plot 7-7. Occupied Bandwidth Plot (Cellular CDMA Mode – Ch. 384)



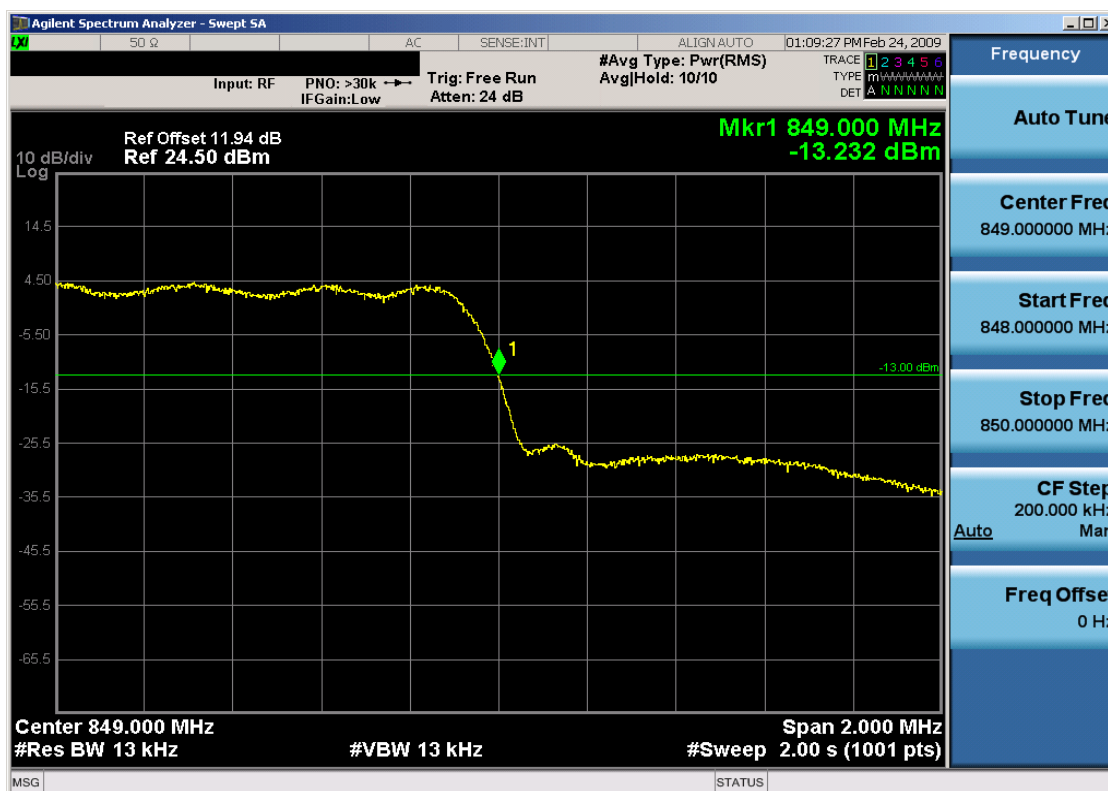
Plot 7-8. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
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Plot 7-9. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

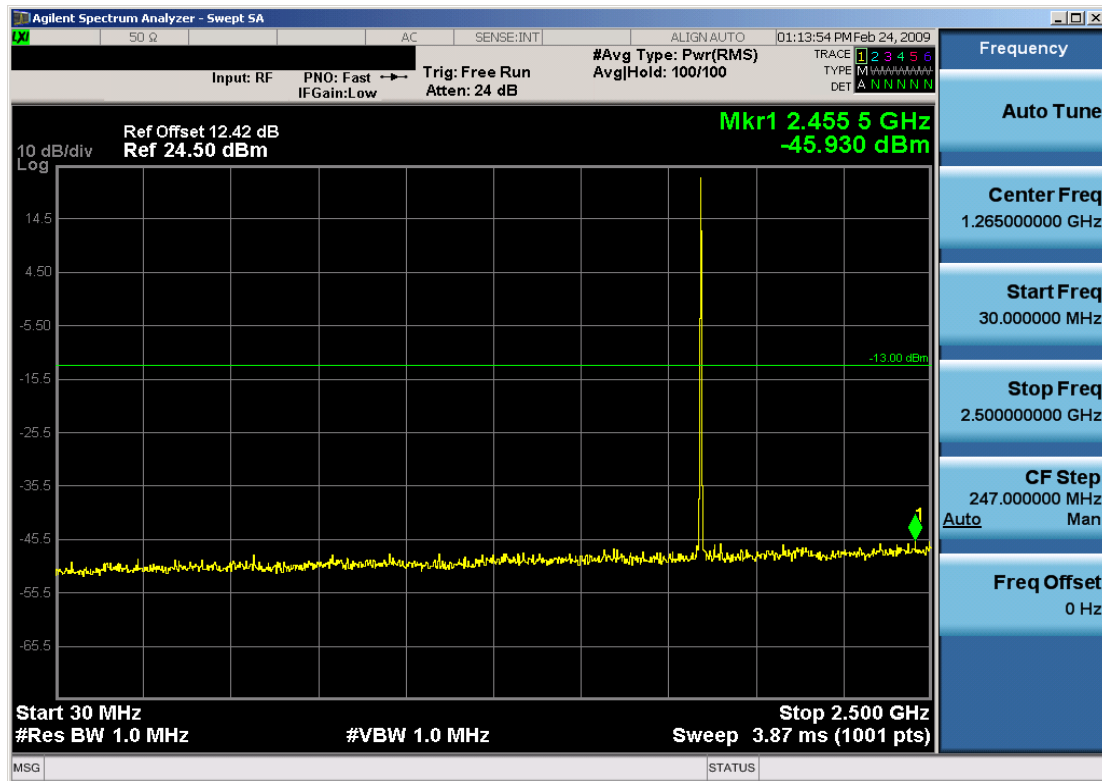


Plot 7-10. Band Edge Plot (Cellular CDMA Mode – Ch. 777)


|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 27 of 35                   |

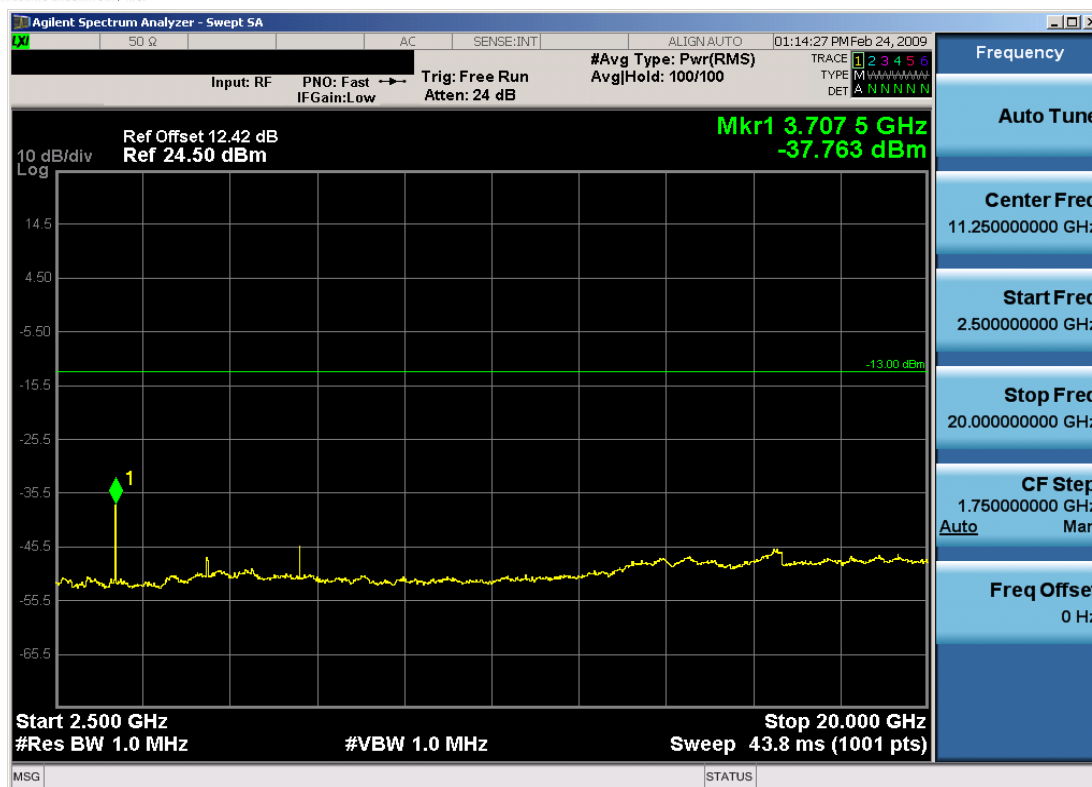


Plot 7-11. 4MHz Span Plot (Cellular CDMA Mode – Ch. 777)

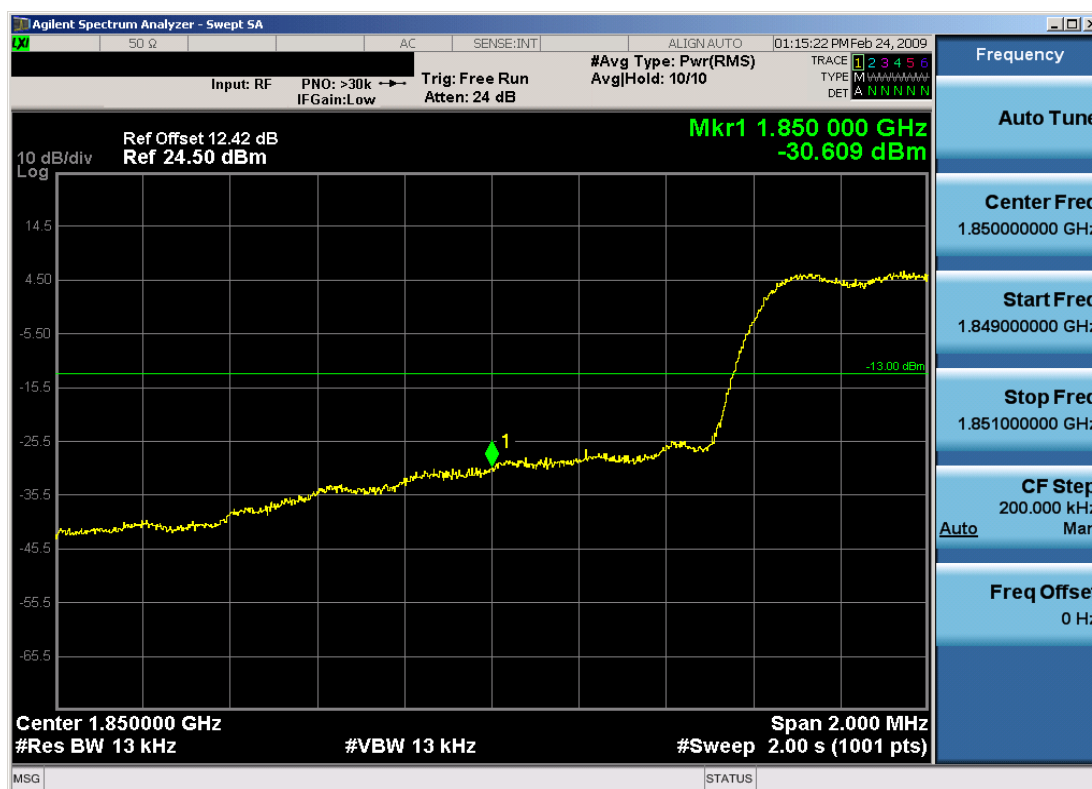


Plot 7-12. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)


|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 28 of 35                   |

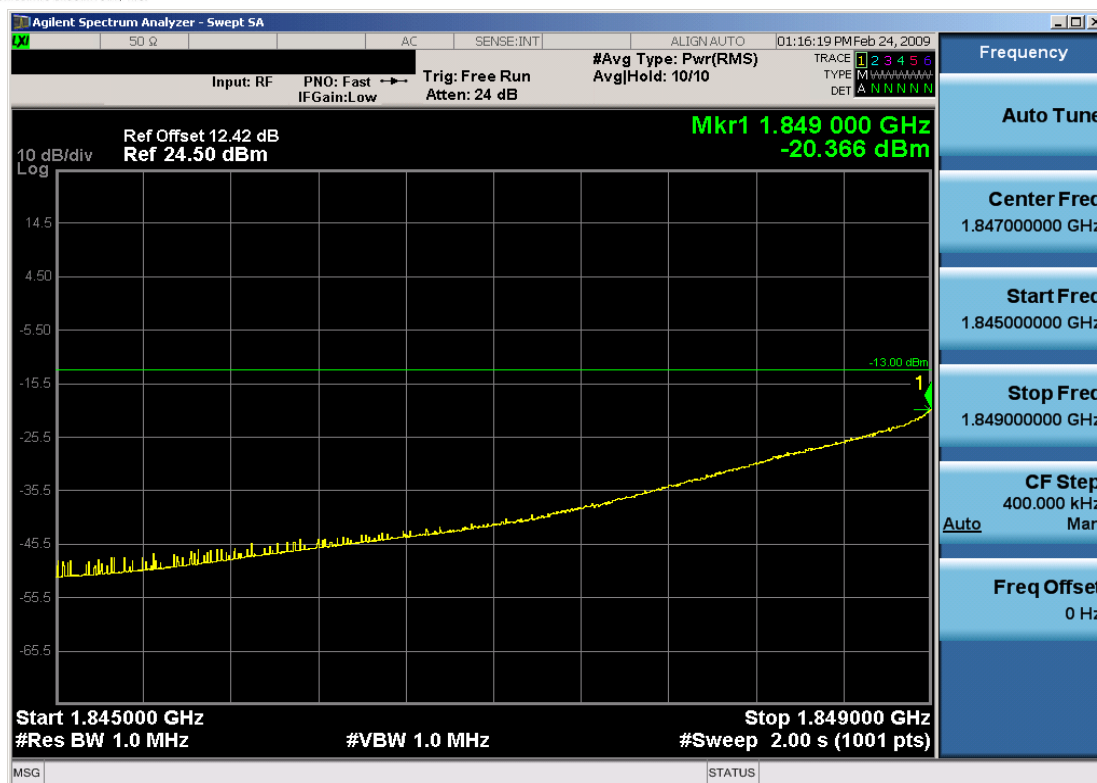


Plot 7-13. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

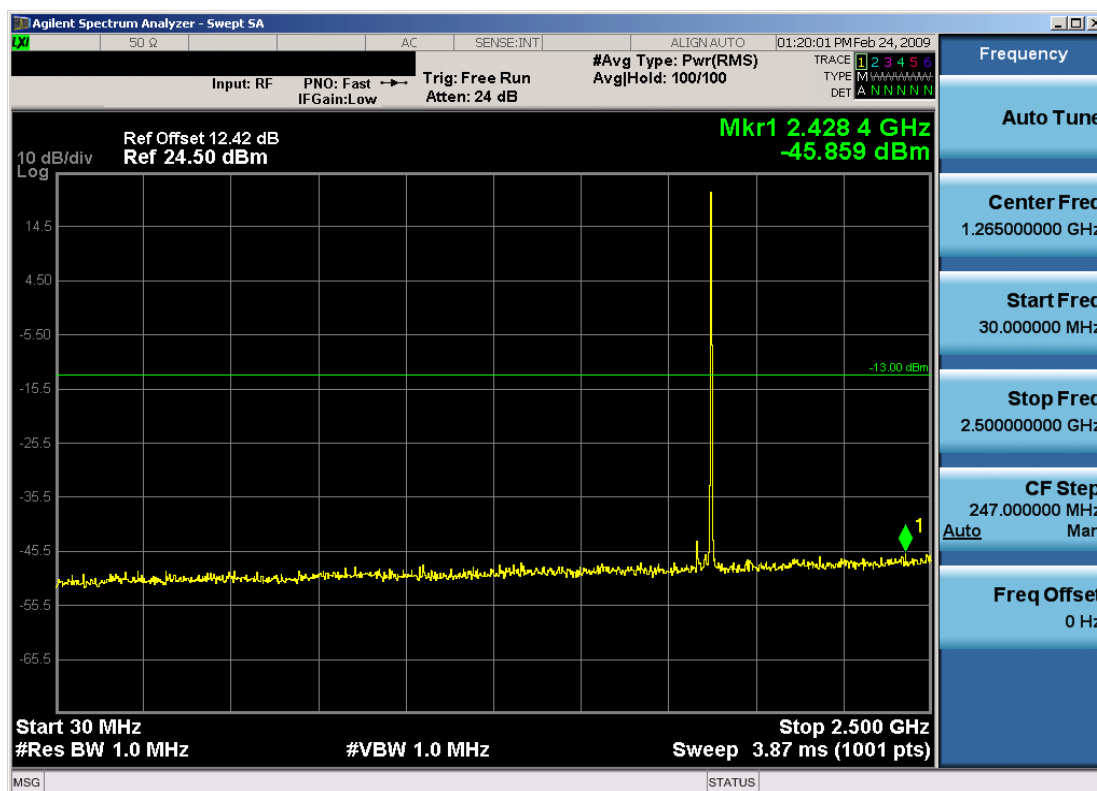


Plot 7-14. Band Edge Plot (PCS CDMA Mode – Ch. 25)

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 29 of 35                   |

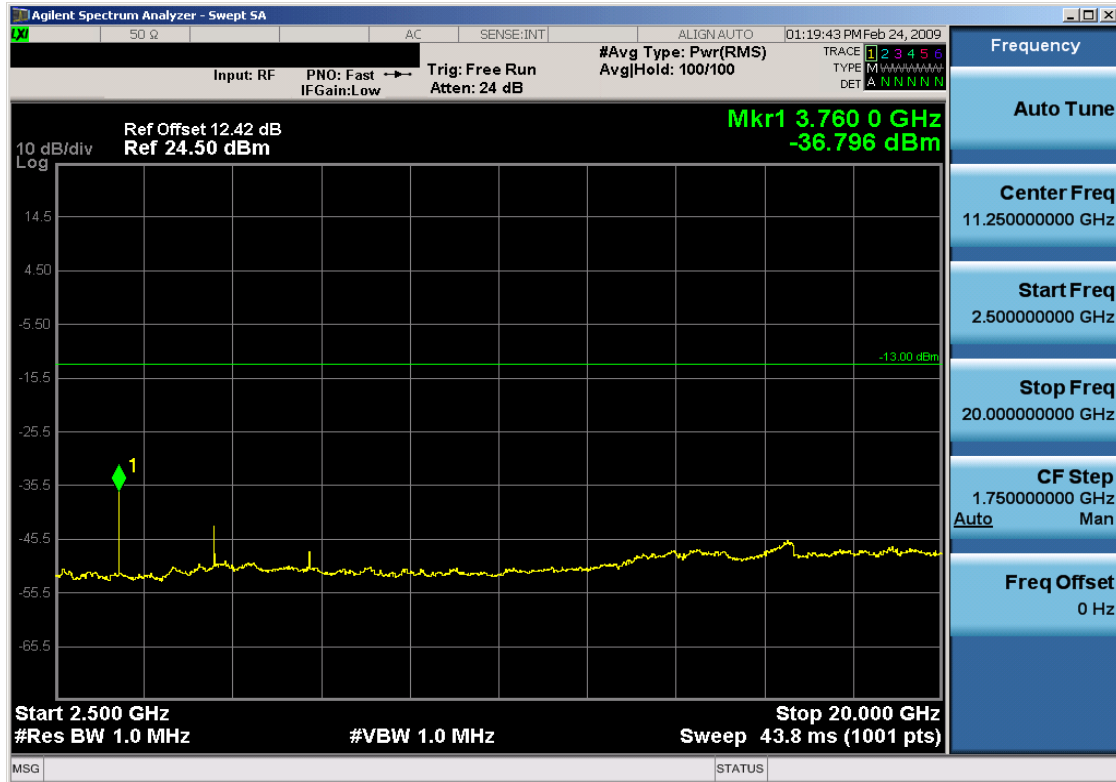


Plot 7-15. 4MHz Span Plot (PCS CDMA Mode – Ch. 25)

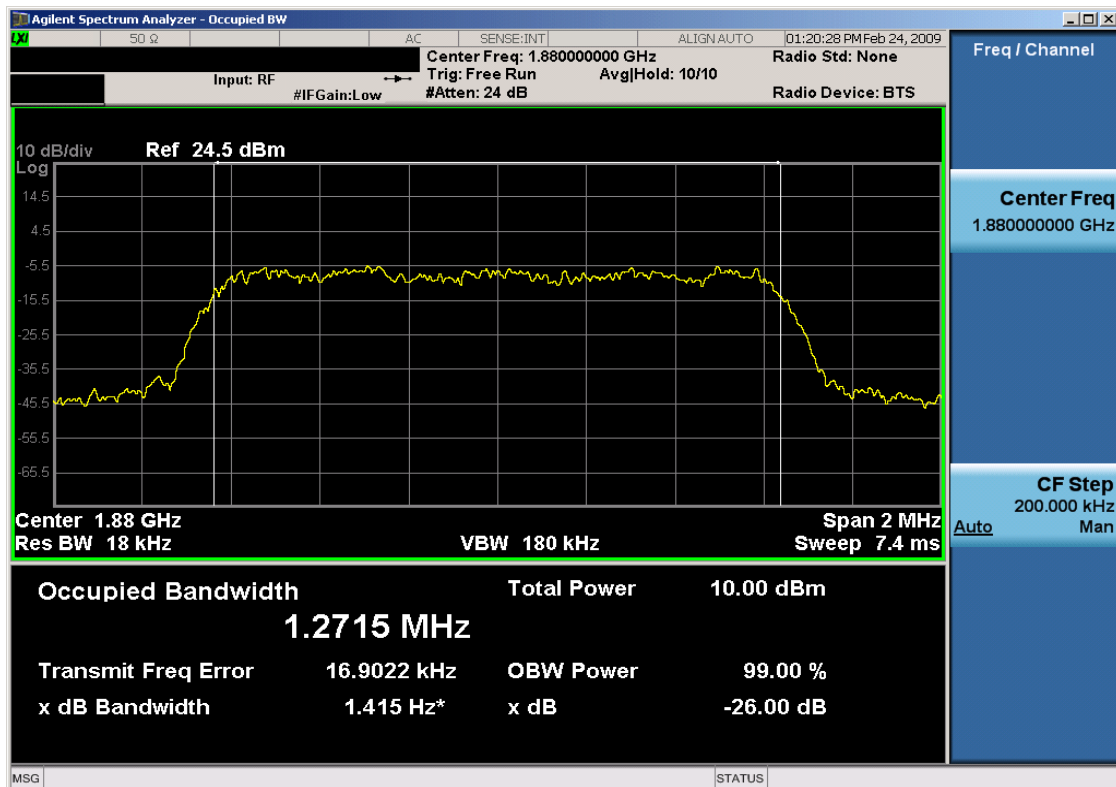


Plot 7-16. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)


|                                    |   |  |  |                                 |
|------------------------------------|---|--|--|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |  | Page 30 of 35                   |

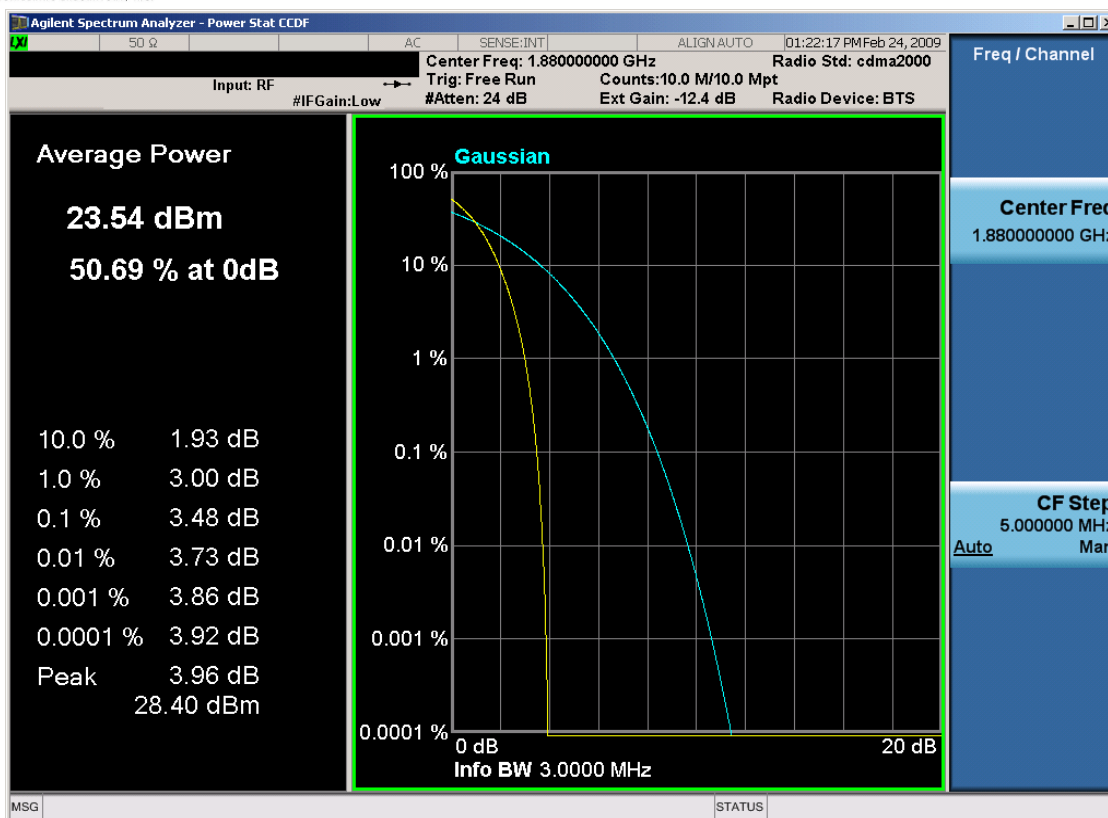


Plot 7-17. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

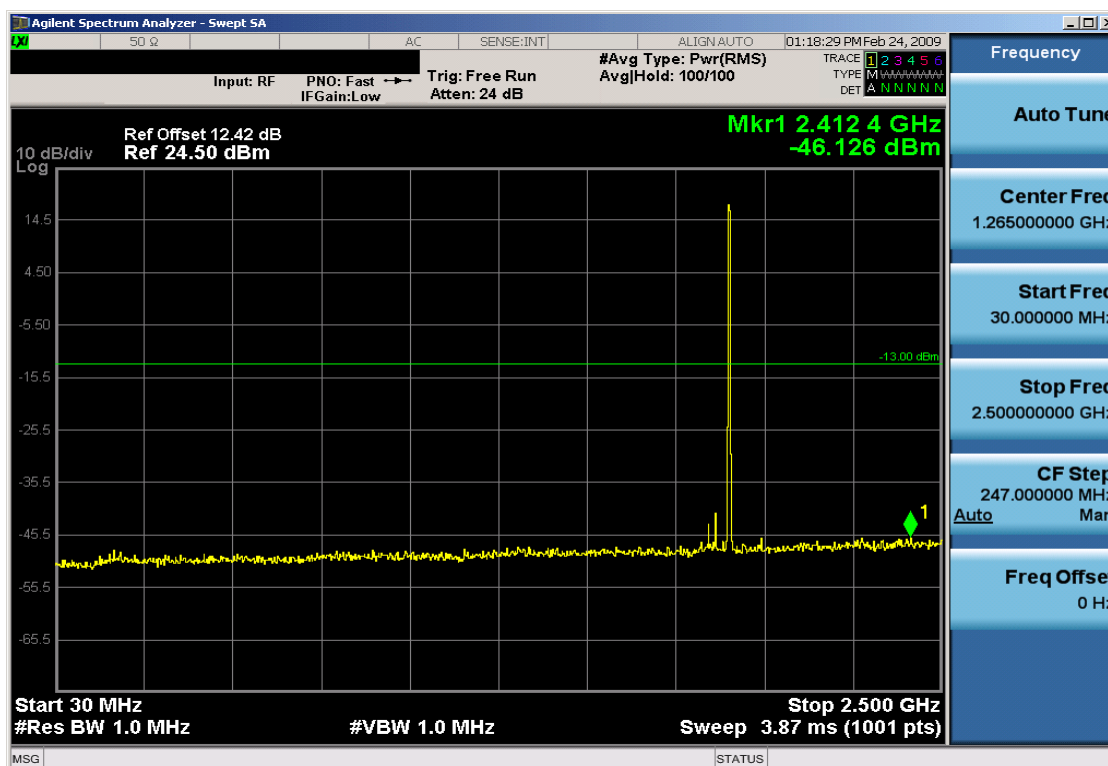


Plot 7-18. Occupied Bandwidth Plot (PCS CDMA Mode – Ch. 600)

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
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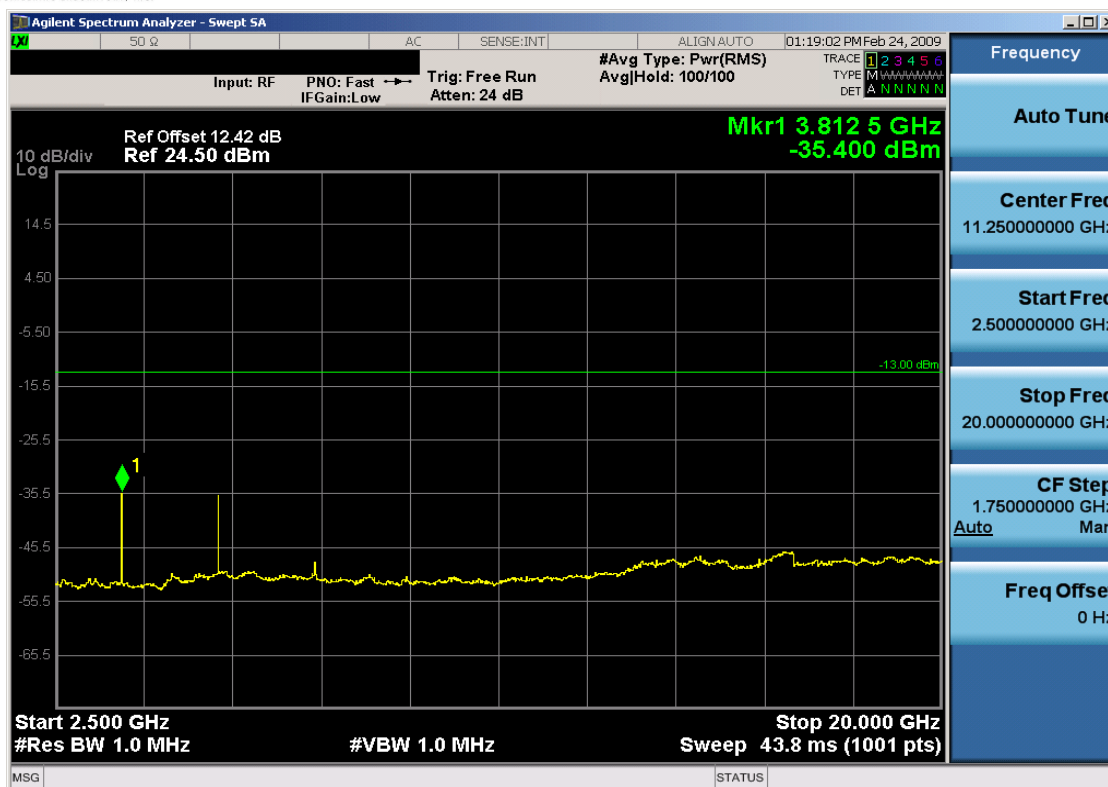
Plot 7-19. Peak-Average Ratio Plot (PCS CDMA Mode – Ch. 600)



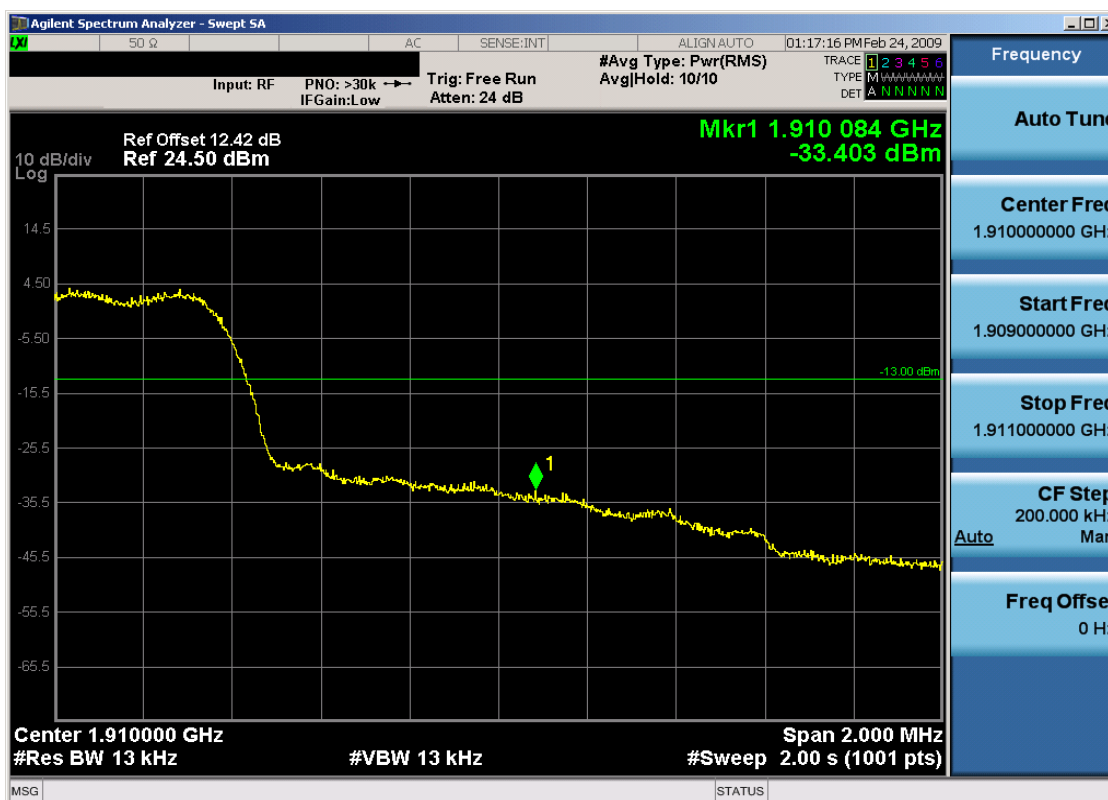
Plot 7-20. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)

|                                    |   |  |                                 |
|------------------------------------|---|--|---------------------------------|
| FCC ID: O9EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    | Page 32 of 35                   |




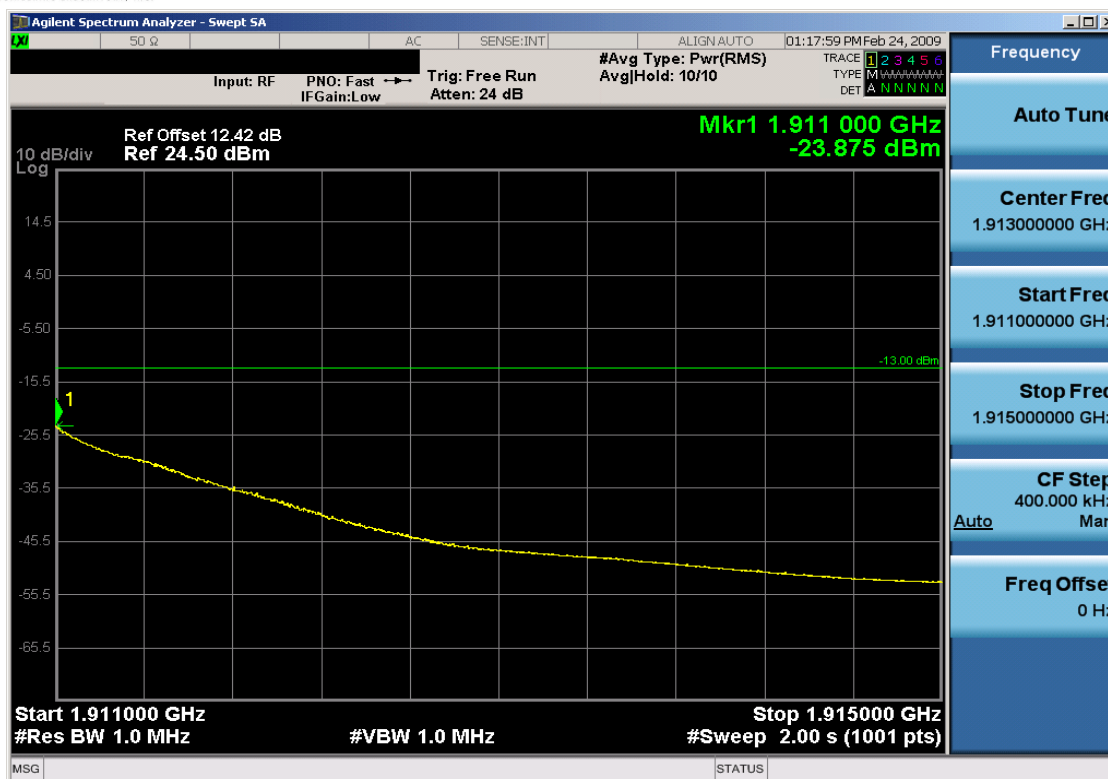


Plot 7-21. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)




Plot 7-22. Band Edge Plot (PCS CDMA Mode – Ch. 1175)

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 33 of 35                   |





Plot 7-23. 4MHz Span Plot (PCS CDMA Mode – Ch. 1175)

|                                    |   |  |   |                                 |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: 09EQ26ELITE                | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0902100237.09E | Test Dates:<br>February 24 - 25, 2009         | EUT Type:<br>Cellular/PCS CDMA Module                    |   | Page 34 of 35                   |

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Wavecom Cellular/PCS CDMA Module FCC ID: 09EQ26ELITE** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

|   |   |  |   |  |
|---|---|--|---|--|
| <b>FCC ID:</b> 09EQ26ELITE                |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>FCC Pt. 22/24 CDMA MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>0902100237.09E | <b>Test Dates:</b><br>February 24 - 25, 2009  | <b>EUT Type:</b><br>Cellular/PCS CDMA Module                     |   | Page 35 of 35                          |