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CERTIFICATE OF COMPLIANCE FCC Part 22 & 24 Class II Permissive Change

Applicant Name:

Panasonic Corporation of North America
One Panasonic Way, 4B-8
Secaucus, NJ 07094
United States

Date of Testing:

November 22, 2006

Test Site/Location:

PCTEST Lab., Columbia, MD, USA

Test Report Serial No.:

0609200818-R1

FCC ID:**ACJ9TGCF-W51****APPLICANT:****PANASONIC CORPORATION OF NORTH AMERICA**

Application Type: Class II Permissive Change
FCC Classification: PCS Licensed Transmitter (PCB)
FCC Rule Part(s): §2; §22(H), §24(E)
EUT Type: Toughbook Model: CF-W5
Model(s): CF-W5
Tx Frequency Range: 824.70 - 848.31MHz (Cell. CDMA) / 1851.25 - 1908.75MHz (PCS CDMA)
Rx Frequency Range: 869.70 - 893.31MHz (Cell. CDMA) / 1931.25 - 1988.75MHz (PCS CDMA)
Max. RF Output Power: 0.485 W ERP Cellular CDMA EvDO (26.860 dBm) /
0.356 W EIRP PCS CDMA EvDO (25.510 dBm)
Emission Designator(s): 1M40F9W (CDMA EvDO) / 1M43F9W (PCS EvDO)
Test Device Serial No.: *identical prototype* [S/N: 6GKSA00067R]
Class II Permissive Change: Updated CDMA Module from EVDO Rev. 0 to Rev. A
Original Grant Date: 08/25/2006

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.

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: 0609200818-R1) supersedes and replaces the previously issued test report on the same subject EUT for the same type of testing as indicated. Please discard or destroy the previously issued report (S/N: 0609200818) and dispose of it accordingly.

Grant Conditions: Power output listed is ERP for Part 22 and EIRP for 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.

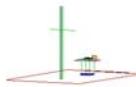
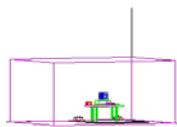
Randy Ortanez
President

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Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 1 of 28

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MEASUREMENT REPORT

FCC Part 22 & 24

A. §2.1033 General Information

APPLICANT: Panasonic Corporation of North America
APPLICANT ADDRESS: One Panasonic Way, 4B-8
SECaucus, NJ 07094
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)
MODEL NAME: CF-W5
FCC ID: ACJ9TGCF-W51
FCC CLASSIFICATION: PCS Licensed Transmitter (PCB)
EMISSION DESIGNATOR(S): 1M40F9W (CDMA EvDO) / 1M43F9W (PCS EvDO)
MODE: CDMA / EvDO
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: 6GKSA00067R Production Pre-Production Engineering
DATE(S) OF TEST: November 22, 2006
TEST REPORT S/N: 0609200818-R1

A.1 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 (IC-2451).
- 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 (IC-2451) 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 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure 1-1). 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.

Deviation from Measurement Procedure.....None

1.2 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.

1.3 Testing Facility

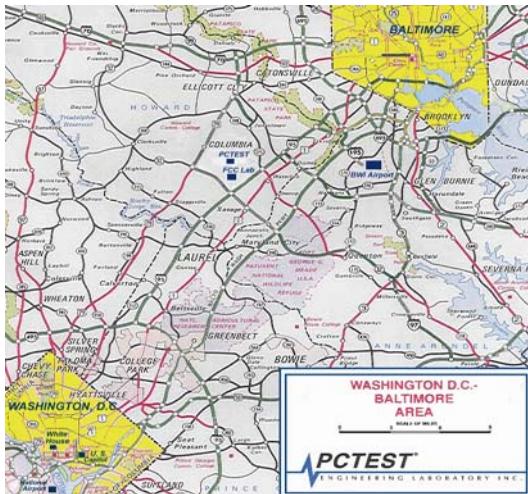


Figure 1-3. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

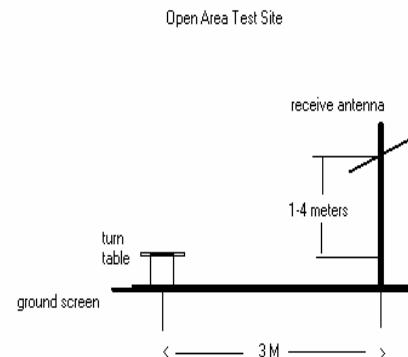


Figure 1-1. Diagram of 3-meter outdoor test range

These measurement tests were conducted at 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 and Industry Canada.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Panasonic Toughbook Model: CF-W5** **FCC ID: ACJ9TGCF-W51**. The EUT consisted of the following component(s):

Manufacturer / Description	FCC ID	Model
Panasonic Toughbook Model: CF-W5	ACJ9TGCF-W51	CF-W5
Intel PRO/Wireless Network Module	PD9WM3945ABG	WM3945ABG
* Sierra Wireless EVDO Rev. A Module	N7N-MC5725	MC5725

Table 2.1. EUT Equipment Description

* This EUT is identical to the previously certified device except for the EVDO Rev. A module.

2.2 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing.

- None

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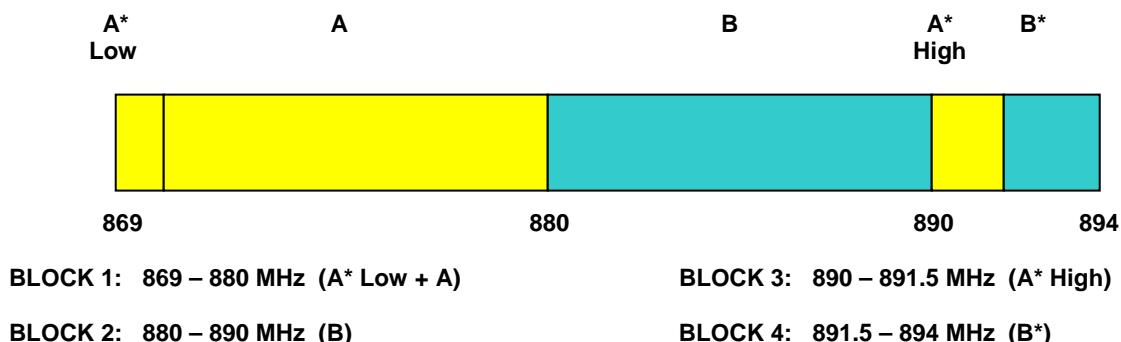
3.0 DESCRIPTION OF TESTS

3.1 Occupied Bandwidth Emission Limits

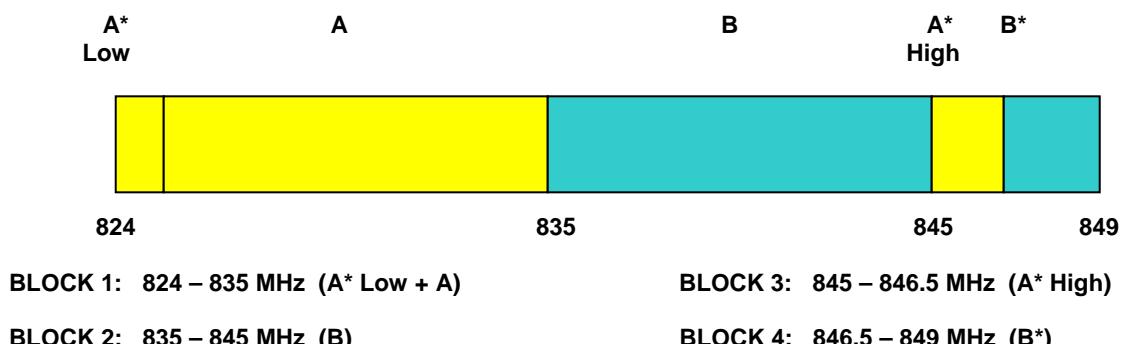
§2.1049, 22.917(a), 24.238(a)

- 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.
- b. 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.
- c. 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.
- d. 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.

3.2 Cellular - Base Frequency Blocks

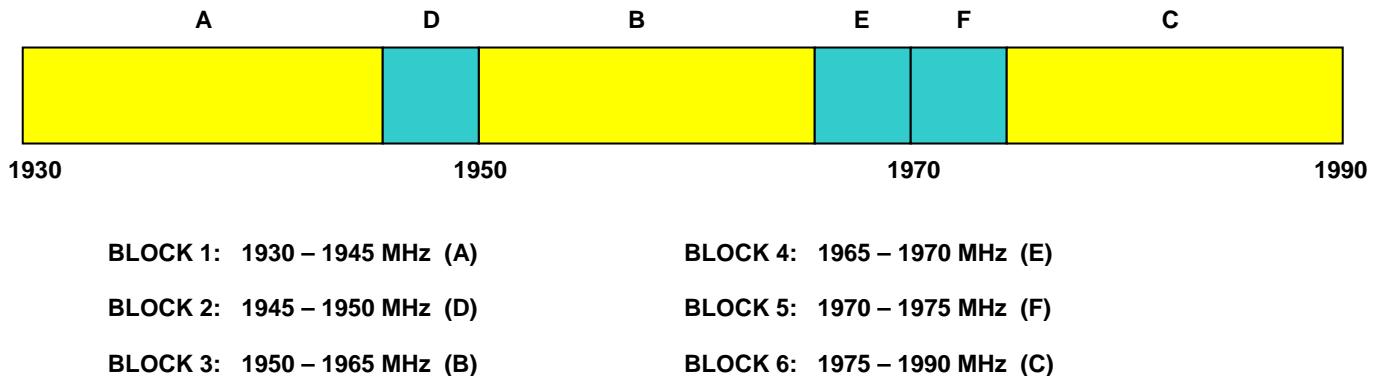


3.3 Cellular - Mobile Frequency Blocks

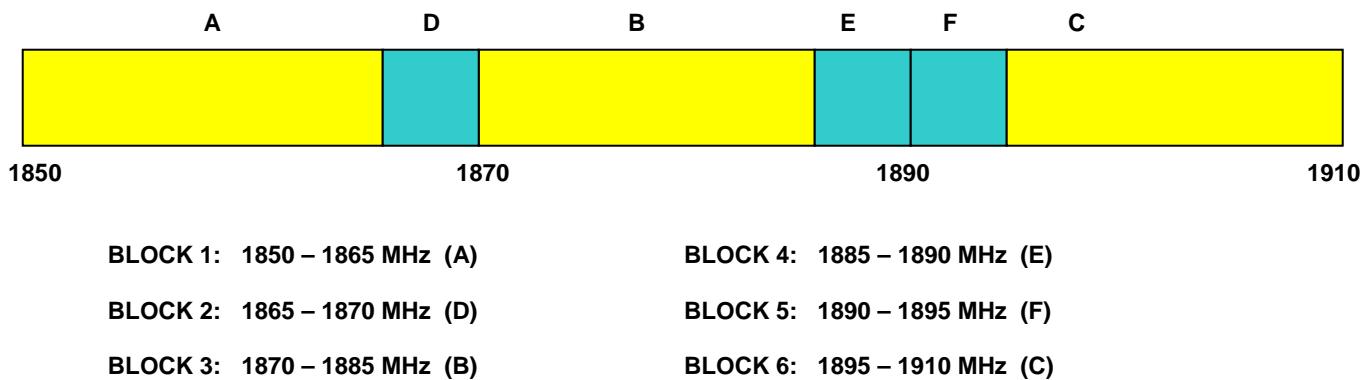


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3.4 PCS - Base Frequency Blocks



3.5 PCS - Mobile Frequency Blocks



3.6 Frequencies

At the input terminals of the spectrum analyzer, an isolator (RF pad) and a high-pass filter are connected between the test transceiver (for conducted tests) or the receive antenna (for radiated tests) and the analyzer. The high-pass filter (signals below 1.6 GHz) is to limit the fundamental frequency from interfering with the measurement of low-level spurious and harmonic emissions and to ensure that the preamplifier is not saturated.

3.7 Radiated Spurious and Harmonic Emissions

§2.1051, 22.917(a), 24.238(a); RSS-129 (8.1.1), RSS-133 (6.5.1(i))

Radiation and harmonic 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. 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 EvDO RETAP with "All Up" power control bits.

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3.8 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235; RSS-129 (9.2.1), RSS-133 (6.7(a,b))

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +60°C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

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 and the individual oscillators is measured at room temperature (22°C to 25°C to provide a reference).
2. The equipment is subjected to an overnight “soak” at -30°C without any power applied.
3. After the overnight “soak” at -30°C (usually 14-16 hours), 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 and the individual oscillators is made within a three minute interval after applying power to the transmitter.
4. Frequency measurements are made at 10°C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency measurements are at 10 intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

NOTE: The EUT is tested down to the battery endpoint.

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4.0 TEST EQUIPMENT CALIBRATION DATA

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

TYPE	MODEL	CAL. DUE DATE	CAL. INTERVAL	SERIAL No.
Microwave Spectrum Analyzer	Agilent E4448A (3Hz-50GHz)	09/22/07	Annual	US42510244
Spectrum Analyzer	HP 8566B (100Hz-22GHz)	12/22/07	Annual	3638A08713
PSG Analog Signal Generator	Agilent E8257D (250kHz-20GHz)	02/11/07	Annual	MY45470194
5 Watt Amplifier	5S1G4 (800MHz-4.2GHz)	N/A	N/A	22332
Wireless Communication Test Set	Agilent 8960 Series 10 E5515C	06/10/07	Annual	6B46110872
Universal Power Meter	Gigatronics 8651A (50MHz-18GHz)	07/28/07	Annual	1834052
Power Sensor	Gigatronics 80701A	04/11/07	Annual	1833460
Quasi-Peak Adapter	HP 85650A	12/22/07	Annual	2043A00301
Preamplifier	HP 8449B (1-26.5GHz)	12/22/07	Annual	3008A00985
Attenuation/Switch Driver	HP 11713A	12/22/07	Annual	N/A
Preselector	HP 85685A (20Hz-2GHz)	12/22/07	Annual	N/A
6dB Res BW Spec. Analyzer Display	OPT 462	12/22/07	Annual	3701A22204
Horn Antenna	EMCO Model 3115 (1-18GHz)	08/25/07	Biennial	9704-5182
Horn Antenna	EMCO Model 3116 (18-40GHz)	08/25/07	Biennial	9203-2178
EMCO Dipoles (2)	N/A	05/08/08	Biennial	00023951
SOLAR LISN (2)	8012-50	11/18/07	Biennial	0313233, 0310234
10dB Attenuator	HP 8493B	N/A	N/A	N/A
Bi-Directional Coax Coupler	PE2208-6	N/A	Annual	N/A
Microwave Cables	MicroCoax (1.0-26.5GHz)	02/26/07	Annual	N/A
Temperature & Humidity Chamber	ESPEC SCP-220	06/08/07	Annual	017620

Table 4.1. Test Equipment

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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 2nd 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

Summary

The intentional radiator has been tested in a simulated typical installation to demonstrate compliance with the relevant FCC performance and procedural standards. The radio was transmitting at full power on the specified channels. The channels tested are high, middle and low of the allocated bands. Final system data was gathered in a mode that tended to maximize emissions by varying the orientation of the EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization. This device was tested under all R.C.s and S.O.s and the worst case is reported with EvDO RETAP with "All Up" power control bits.

Method/System: PCS Licensed Transmitter (PCB)

Mode(s): CDMA / EvDO Rev. A

FCC Part Section(s)	RSS Section	Test Description	Test Limit	Test Condition	Test Result
TRANSMITTER MODE (TX)					
2.1049, 22.917(a), 24.238(a)	N/A	Occupied Bandwidth	N/A	CONDUCTED	PASS
22.917(a), 24.238(a)	RSS-129 (8.1.1) RSS-133 (6.5.1)	Band Edge / Conducted Spurious Emissions	< $43 + 10\log_{10} (P[\text{Watts}])$ at Band Edge and for all out-of-band emissions		PASS
2.1046	N/A	Transmitter Conducted Output Power	N/A		PASS
22.913(a)(2)	RSS-129 (9.1)	Effective Radiated Power	< 7 Watts max. ERP	RADIATED	PASS
24.232(c)	RSS-133 (6.4) [SRSP-510 (5.1.2)]	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP		PASS
2.1051, 22.917(a), 24.238(a)	RSS-129 (8.1.1) RSS-133 (6.5.1)	Undesirable Emissions	< $43 + 10\log_{10} (P[\text{Watts}])$ for all out-of-band emissions		PASS
2.1055, 22.355, 24.235	RSS-129 (9.2.1) RSS-133 (6.3)	Frequency Stability	< 2.5 ppm		PASS
RECEIVER MODE (RX)					
15.107	RSS-Gen [7.2.2]	AC Conducted Emissions 150kHz – 30MHz	EN55022	Line Conducted	PASS
15.109	RSS-129 (10(a,d)), RSS-133 (6.7(a,b)), RSS-210 (7.3)	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.209 limits or < RSS-Gen limits [Section 6; Table1]	RADIATED (30MHz-1GHz) (1-25 GHz)	PASS
RF EXPOSURE (SAR)					
2.1093	RSS-102	MPE	1 mW/cm ² @ 20 cm (MPE Limit)	3 Channels	PASS

Table 6-1. Summary of Test Results

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
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6.1 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 EvDO RETAP with "All Up" power control bits.

SAR Measurement Conditions for CDMA2000

The following procedures were followed according to FCC "SAR Measurement Procedures for 3G Devices", June 2006.

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 SAR with "All Up" power control bits.

Parameter	Units	Value
\bar{I}_{or}	dBm/1.23 MHz	-104
Pilot E_c \bar{I}_{or}	dB	-7
Traffic E_c \bar{I}_{or}	dB	-7.4

Table 6-2
Parameters for Max. Power for RC1

Parameter	Units	Value
\bar{I}_{or}	dBm/1.23 MHz	-86
Pilot E_c \bar{I}_{or}	dB	-7
Traffic E_c \bar{I}_{or}	dB	-7.4

Table 6-3
Parameters for Max. Power for RC3

Band	Channel	TDSO SO32 [dBm]	1x EvDO Rev. A [dBm]	1x EvDO Rev. A [dBm]
	RC3/3	(FETAP)	(RETAP)	
Cellular	1013	24.44	24.19	24.66
	384	24.32	23.86	24.57
	777	24.38	24.18	24.69
PCS	25	24.17	24.09	24.67
	600	24.12	23.81	24.46
	1175	24.34	24.21	24.63

Table 6-4. Maximum Power Output Table for CF-W5

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
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6.2 Effective Radiated Power Output Data

§22.913(a)(2); RSS-129 (9.1)

POWER: High (EvDO Mode)

Freq. Tuned (MHz)	REF. LEVEL (dBm)	POL (H/V)	ERP (W)	ERP (dBm)	BATTERY
824.70	-14.874	H	0.436	26.399	Standard
836.52	-14.573	H	0.485	26.860	Standard
848.31	-15.137	H	0.441	26.446	Standard

Table 6-5. Effective Radiated Power Output Data

NOTES:

Effective Radiated Power Output 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested under all R.C.s and S.O.s and the worst case is reported with EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 13 of 28

6.3 Equivalent Isotropic Radiated Power Output Data

§24.232(c); RSS-133 (6.4) [SRSP-510 (5.1.2)]

Radiated measurements at 3 meters

Supply Voltage:	10.65 VDC
Modulation:	PCS CDMA (EvDO)

FREQ. (MHz)	REF. LEVEL (dBm)	POL (H/V)	Azimuth (o angle)	EIRP (dBm)	EIRP (W)	Battery
1851.25	-17.881	H	95	25.200	0.331	Standard
1880.00	-17.741	H	95	25.510	0.356	Standard
1908.75	-18.051	H	95	25.370	0.344	Standard

Table 6-6. Equivalent Isotropic Radiated Power Output Data

NOTES:

Equivalent Isotropic Radiated Power 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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 receive 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.

This device was tested under all R.C.s and S.O.s and the worst case is reported with EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 14 of 28



6.4 Cellular CDMA EvDO Radiated Measurements

§2.1051, 22.917(a): RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.70 MHz
 CHANNEL: 1013 (Low)
 MEASURED OUTPUT POWER: 26.860 dBm = 0.485 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.86 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1649.40	-53.03	6.10	-46.93	V	73.8
2474.10	-64.35	6.70	-57.65	V	84.5
3298.80	-60.89	6.80	-54.09	V	80.9
4123.50	-59.88	6.50	-53.38	V	80.2
4948.20	-84.38	7.00	-77.38	V	104.2

Table 6-7. 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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 spurious 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 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 EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 15 of 28

Cellular CDMA EvDO Radiated Measurements (Cont'd)

§2.1051, 22.917(a); RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.52 MHz
 CHANNEL: 0384 (Mid)
 MEASURED OUTPUT POWER: 26.860 dBm = 0.485 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.86 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.04	-54.03	6.10	-47.93	V	74.8
2509.56	-66.66	6.70	-59.96	V	86.8
3346.08	-63.50	6.80	-56.70	V	83.6
4182.60	-58.61	6.50	-52.11	V	79.0
5019.12	-83.78	7.00	-76.78	V	103.6

Table 6-8. 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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 spurious 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 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 EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
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Cellular CDMA EvDO Radiated Measurements (Cont'd)

§2.1051, 22.917(a); RSS-129 (8.1.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.31 MHz
 CHANNEL: 0777 (High)
 MEASURED OUTPUT POWER: 26.860 dBm = 0.485 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 39.86 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBD)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1696.62	-53.14	6.10	-47.04	V	73.9
2544.93	-64.26	6.70	-57.56	V	84.4
3393.24	-62.31	6.80	-55.51	V	82.4
4241.55	-58.75	6.50	-52.25	V	79.1
5089.86	-83.98	7.00	-76.98	V	103.8

Table 6-9. 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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 spurious 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 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 EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 17 of 28



6.5 PCS CDMA EvDO Radiated Measurements

§2.1051, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1851.25 MHz
CHANNEL: 0025 (Low)
MEASURED OUTPUT POWER: 25.510 dBm = 0.356 W
MODULATION SIGNAL: CDMA (Internal)
DISTANCE: 3 meters
LIMIT: $43 + 10 \log_{10} (W) =$ 38.51 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3702.50	-54.55	8.70	-45.85	V	71.4
5553.75	-47.90	9.70	-38.20	V	63.7
7405.00	-48.92	9.90	-39.02	V	64.5
9256.25	-77.43	11.40	-66.03	V	91.5
11107.50	-77.33	12.10	-65.23	V	90.7

Table 6-10. 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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 spurious 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 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 EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 18 of 28



PCS CDMA EvDO Radiated Measurements (Cont'd)

§2.1051, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 0600 (Mid)
 MEASURED OUTPUT POWER: 25.510 dBm = 0.356 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.51 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-48.00	8.70	-39.30	V	64.8
5640.00	-59.53	9.70	-49.83	V	75.3
7520.00	-47.63	9.90	-37.73	V	63.2
9400.00	-77.23	11.40	-65.83	V	91.3
11280.00	-77.13	12.10	-65.03	V	90.5

Table 6-11. 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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 spurious 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 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 EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 19 of 28



PCS CDMA EvDO Radiated Measurements (Cont'd)

§2.1051, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1908.75 MHz
 CHANNEL: 1175 (High)
 MEASURED OUTPUT POWER: 25.510 dBm = 0.356 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.51 dBc

FREQ. (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3817.50	-35.24	8.70	-26.54	V	52.0
5726.25	-27.42	9.70	-17.72	V	43.2
7635.00	-45.00	9.90	-35.10	V	60.6
9543.75	-76.93	11.40	-65.53	V	91.0
11452.50	-76.93	12.10	-64.83	V	90.3

Table 6-12. 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. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. 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 spurious 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 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 EvDO RETAP with "All Up" power control bits. This unit was tested with its standard battery.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 20 of 28



6.6 Frequency Stability (Cellular CDMA EvDO)

§2.1055, 22.355; RSS-129 (9.2.1)

OPERATING FREQUENCY: 836,520,004 Hz
 CHANNEL: 384
 REFERENCE VOLTAGE: 10.65 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	11.10	+ 20 (Ref)	836,520,004	0.00	0.000000
100 %		-30	836,519,979	25.10	0.000003
100 %		-20	836,520,071	-66.92	-0.000008
100 %		-10	836,520,096	-92.02	-0.000011
100 %		0	836,520,146	-142.21	-0.000017
100 %		10	836,520,163	-158.94	-0.000019
100 %		20	836,520,121	-117.11	-0.000014
100 %		25	836,520,063	-58.56	-0.000007
100 %		30	836,520,046	-41.83	-0.000005
100 %		40	836,520,104	-100.38	-0.000012
100 %		50	836,520,079	-75.29	-0.000009
100 %		60	836,520,096	-92.02	-0.000011
85 %	9.05	20	836,520,171	-167.30	-0.000020
115 %	12.25	20	836,520,196	-192.40	-0.000023
BATT. ENDPOINT	8.73	20	836,520,163	-158.94	-0.000019

Table 6-13. Frequency Stability Data (Cellular CDMA Mode – Ch. 384)

Note:

Standard batteries were used to perform this test.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 21 of 28

Frequency Stability (Cellular CDMA EvDO) (Cont'd)

§2.1055, 22.355; RSS-129 (9.2.1)

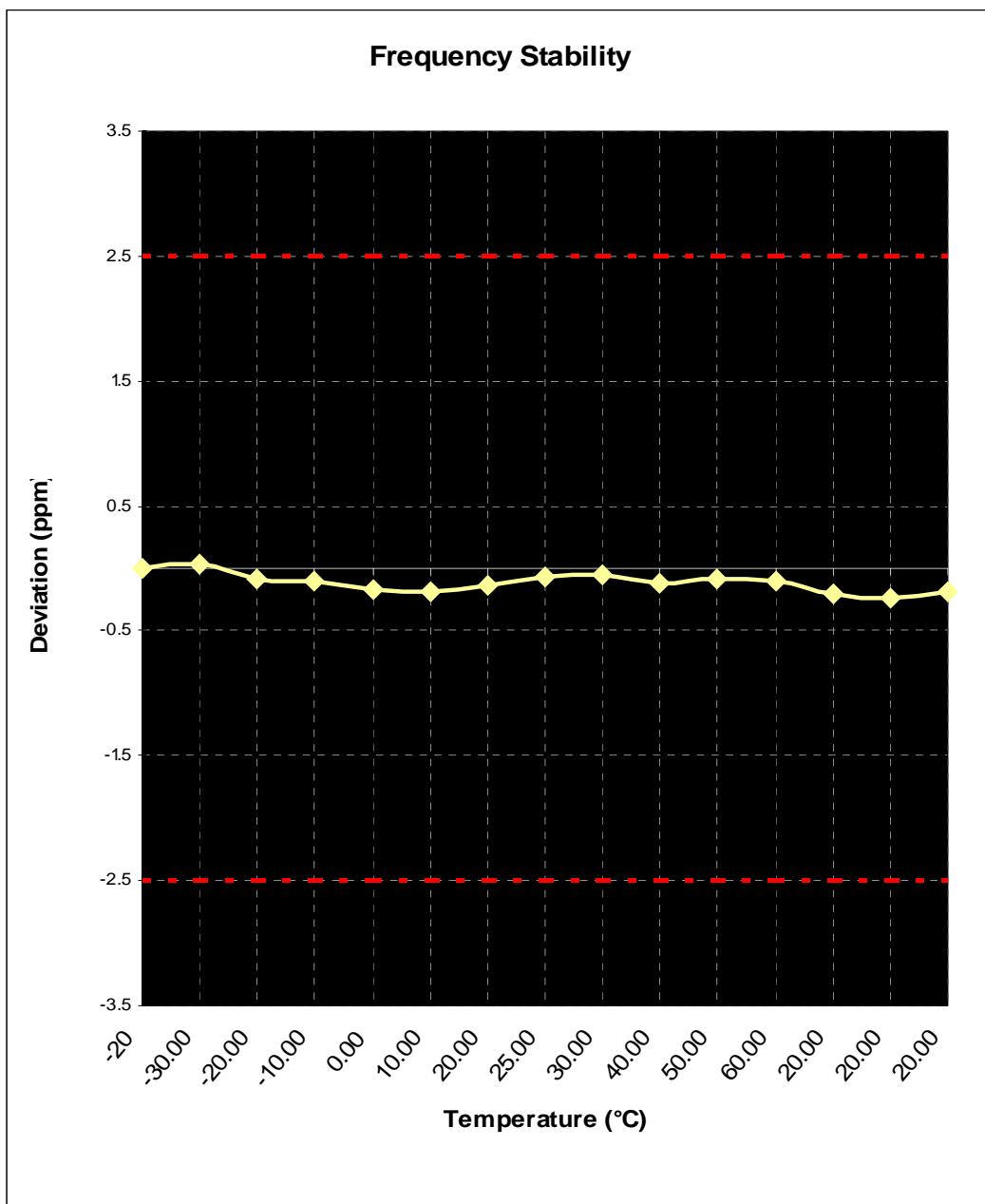


Figure 6-1. Frequency Stability Graph (Cellular CDMA Mode – Ch. 384)

Note:

Standard batteries were used to perform this test.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 22 of 28



6.7 Frequency Stability (PCS CDMA EvDO)

§2.1055, 24.235; RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,003 Hz

CHANNEL: 600

REFERENCE VOLTAGE: 10.65 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQ. (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	10.65	+ 20 (Ref)	1,880,000,003	0.00	0.000000
100 %		-30	1,879,999,853	150.40	0.000008
100 %		-20	1,880,000,135	-131.60	-0.000007
100 %		-10	1,880,000,097	-94.00	-0.000005
100 %		0	1,880,000,210	-206.80	-0.000011
100 %		10	1,880,000,172	-169.20	-0.000009
100 %		20	1,880,000,078	-75.20	-0.000004
100 %		25	1,880,000,116	-112.80	-0.000006
100 %		30	1,880,000,172	-169.20	-0.000009
100 %		40	1,880,000,247	-244.40	-0.000013
100 %		50	1,880,000,285	-282.00	-0.000015
100 %		60	1,880,000,398	-394.80	-0.000021
85 %	9.05	20	1,880,000,360	-357.20	-0.000019
115 %	12.25	20	1,880,000,323	-319.60	-0.000017
BATT. ENDPOINT	8.69	20	1,880,000,172	-169.20	-0.000009

Table 6-14. Frequency Stability Data (PCS CDMA Mode – Ch. 600)

Note:

Standard batteries were used to perform this test.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 23 of 28

Frequency Stability (PCS CDMA) (Cont'd)

§2.1055, 24.235; RSS-133 (6.3)

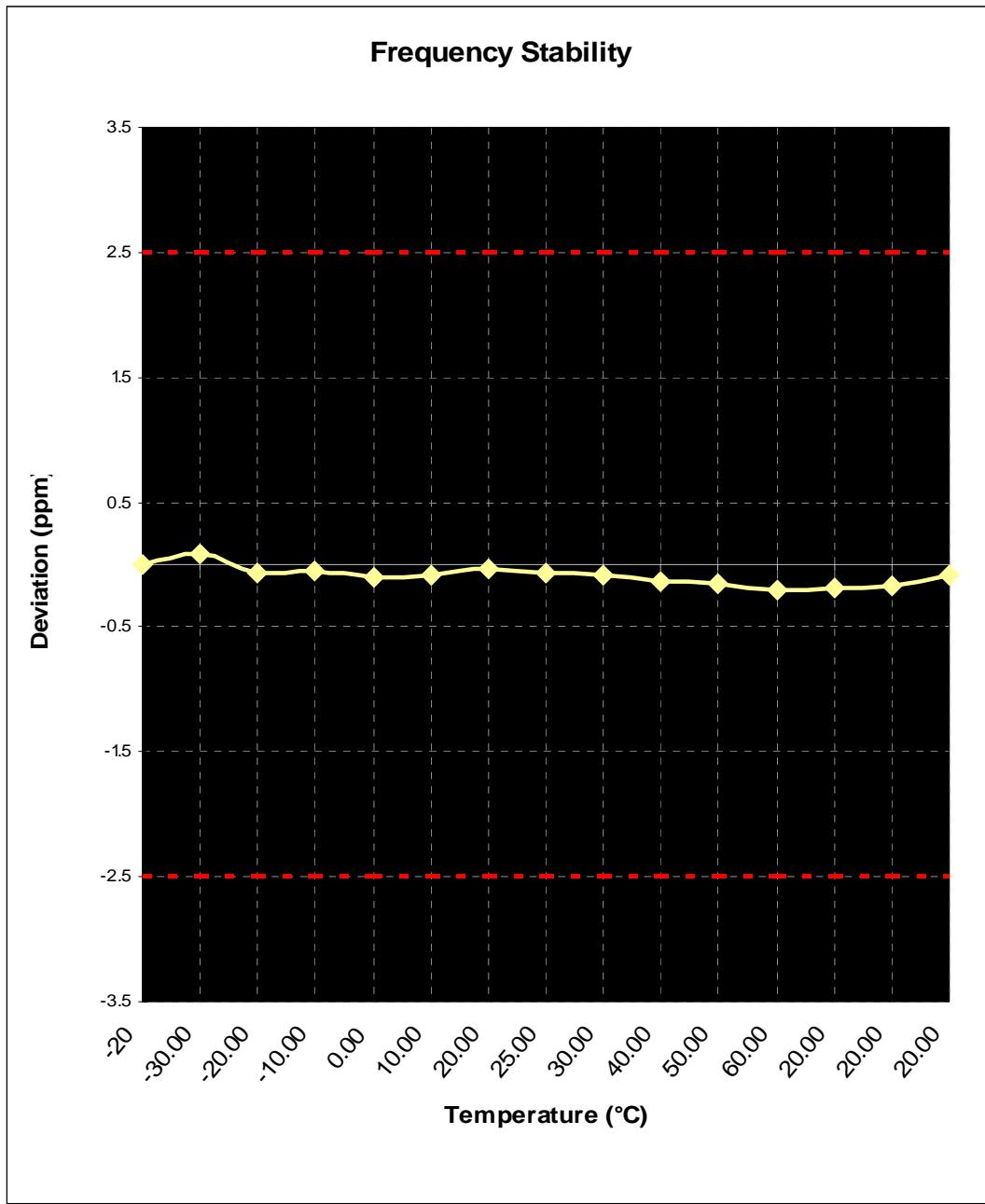


Figure 6-2. Frequency Stability Graph (PCS CDMA Mode – Ch. 600)

Note:

Standard batteries were used to perform this test.

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 24 of 28

7.0 CONCLUSION

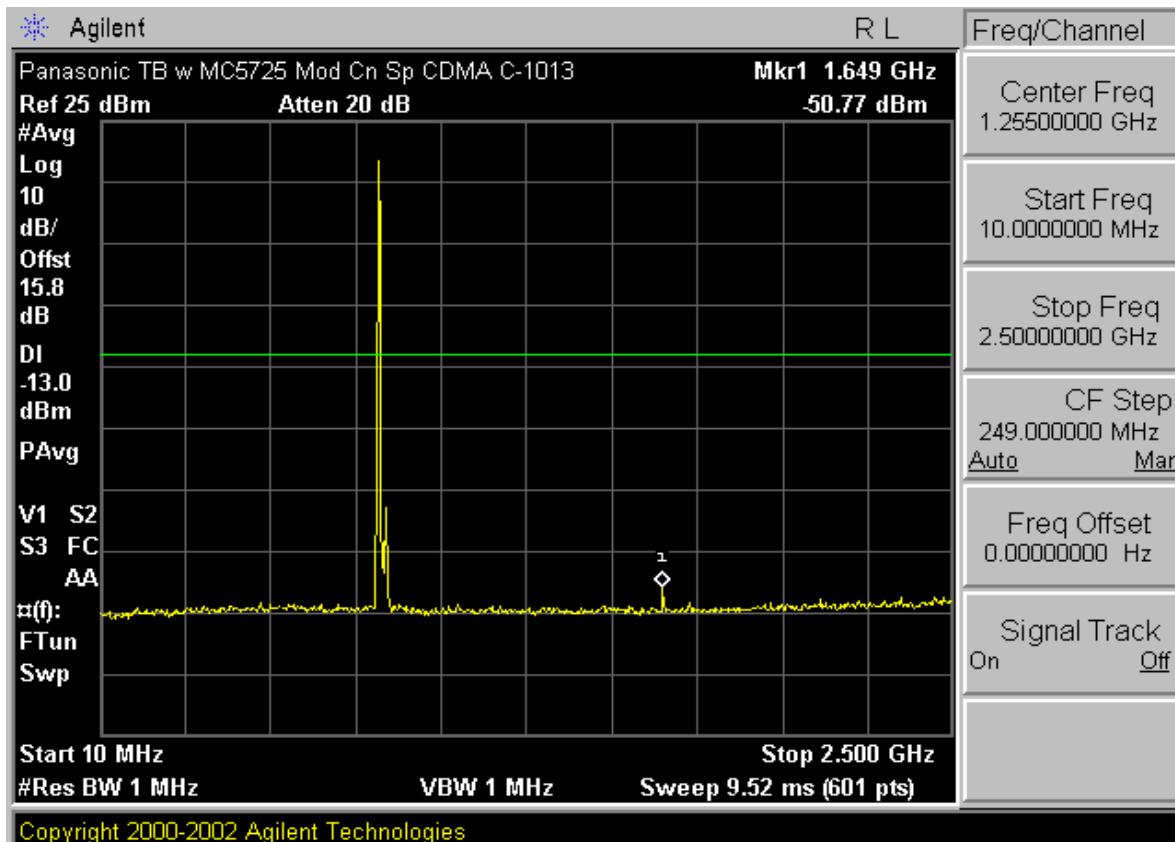
The data collected shows that the **Panasonic Toughbook Model: CF-W5 FCC ID: ACJ9TGCF-W51** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

FCC ID: ACJ9TGCF-W51	 PCTEST WIRELESS	FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 25 of 28



EXHIBIT A - PLOT(S) OF EMISSIONS

FCC ID: ACJ9TGCF-W51	 FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
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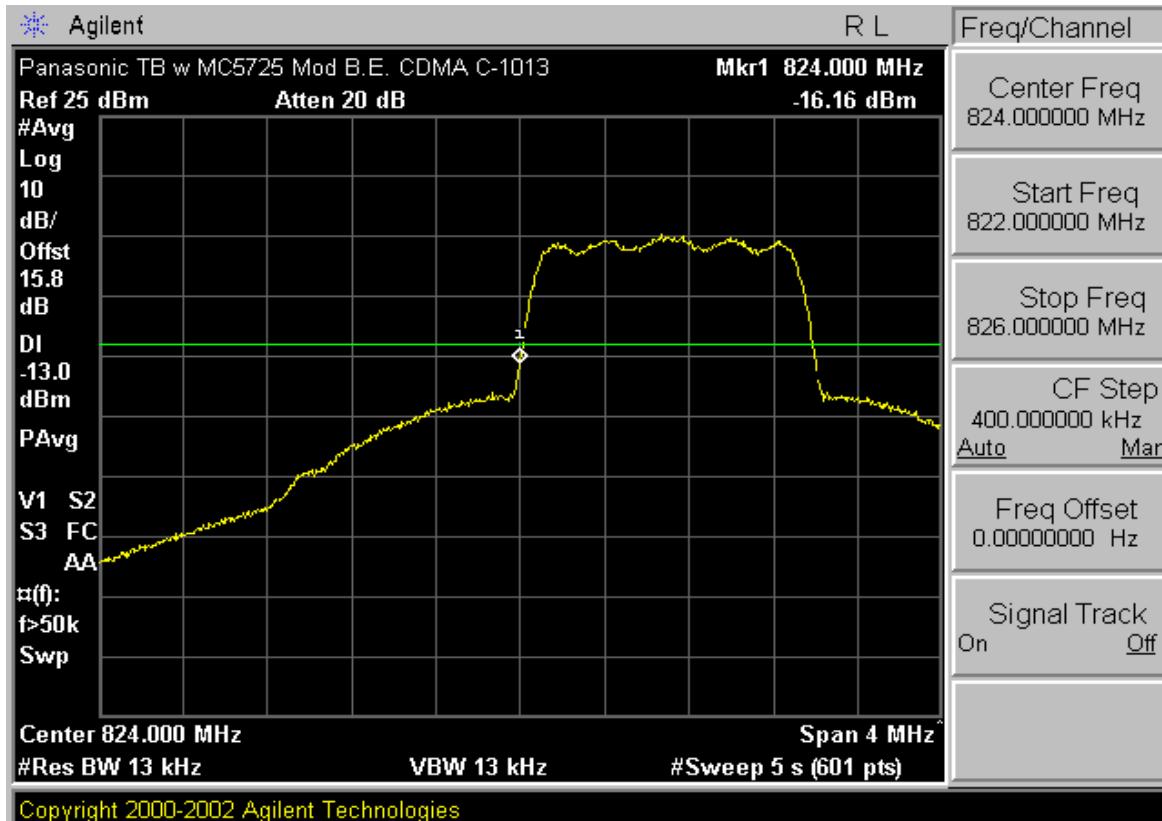


Plot A-1. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 1013)



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

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 1 of 11

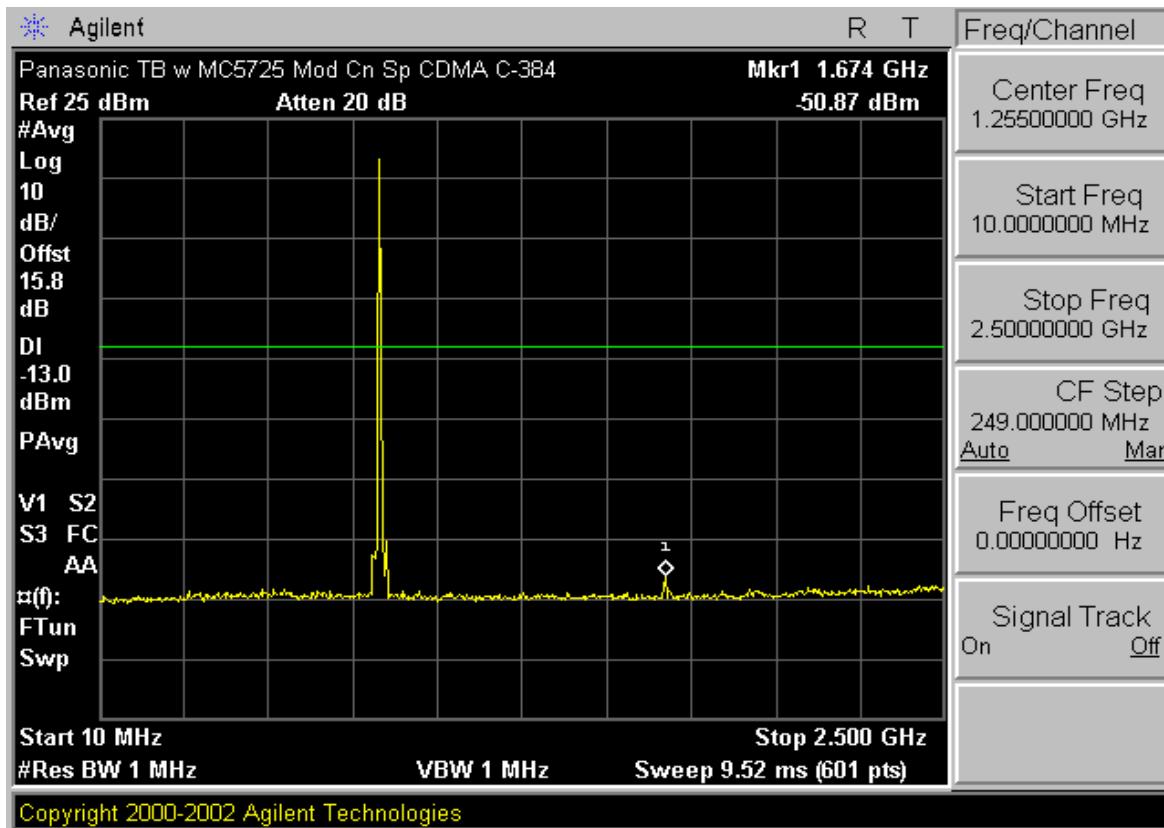


Plot A-3. Band Edge Plot (Cellular CDMA Mode – Ch. 1013)



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

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
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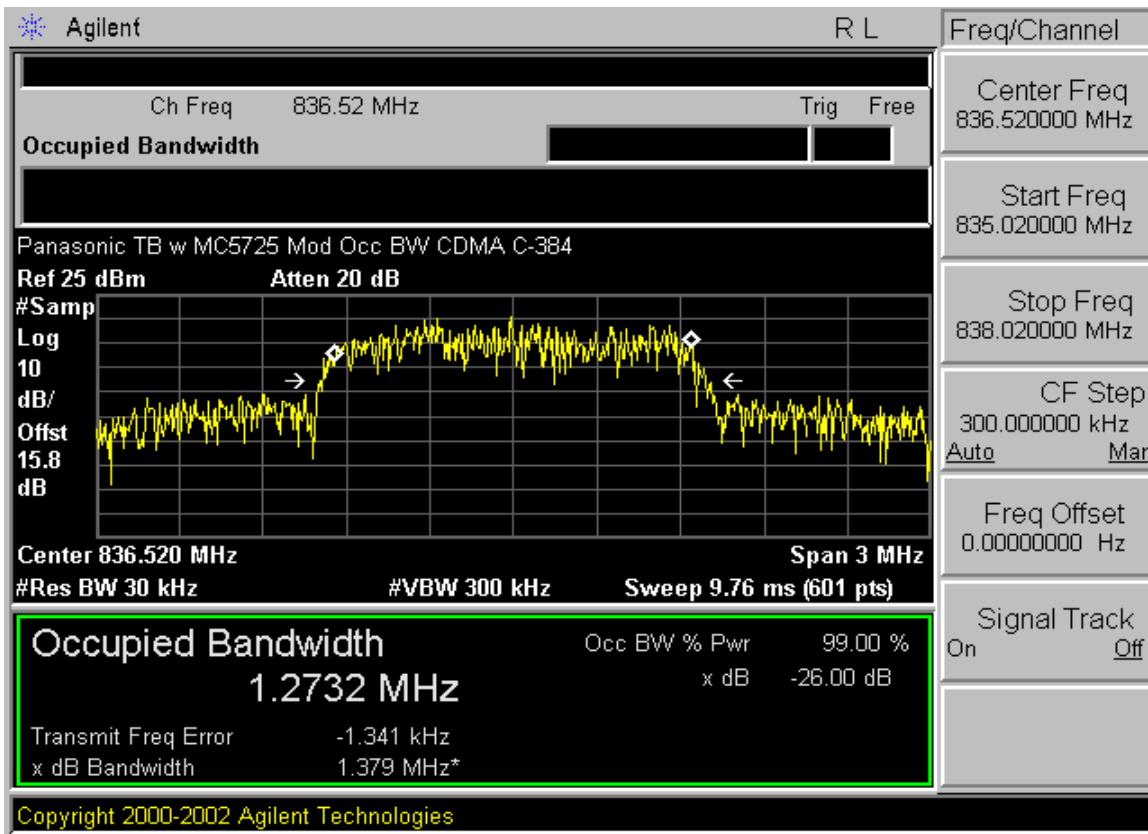


Plot A-5. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

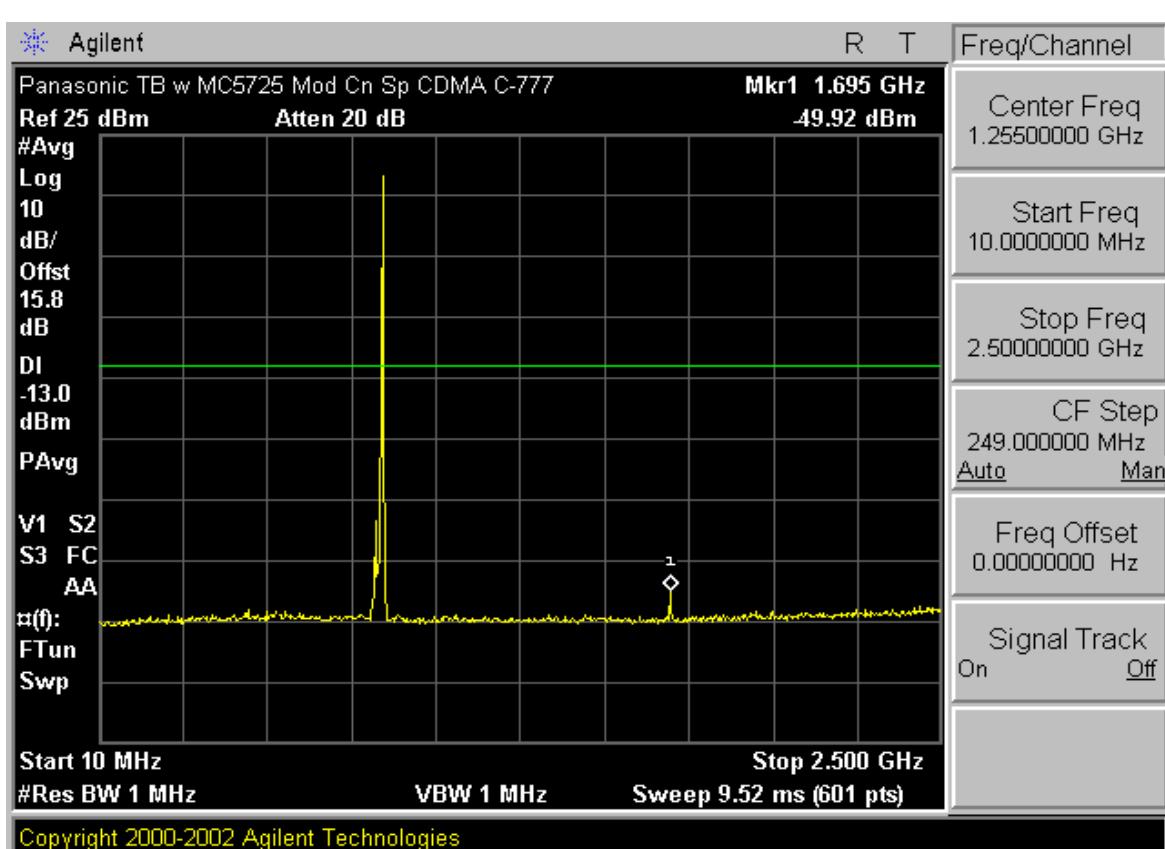


Plot A-6. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 384)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 3 of 11

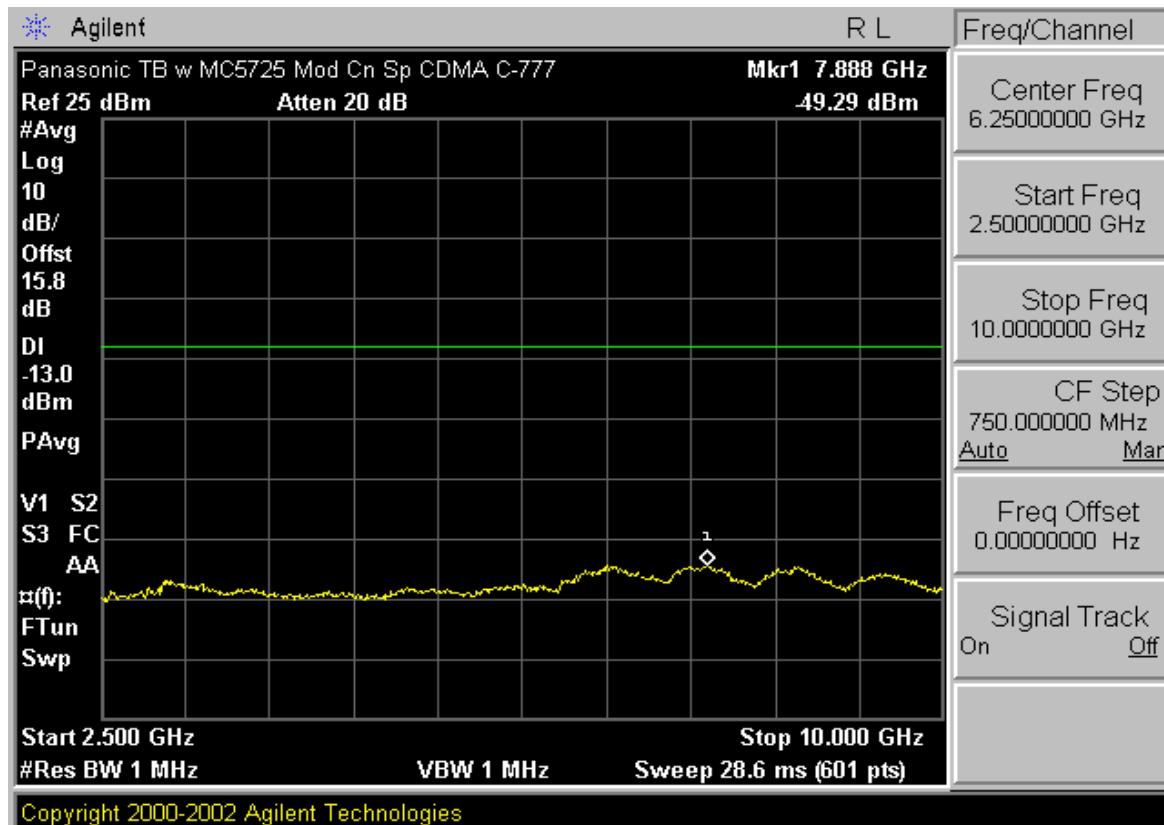


Plot A-7. Occupied Bandwidth Plot (Cellular CDMA Mode – Ch. 384)

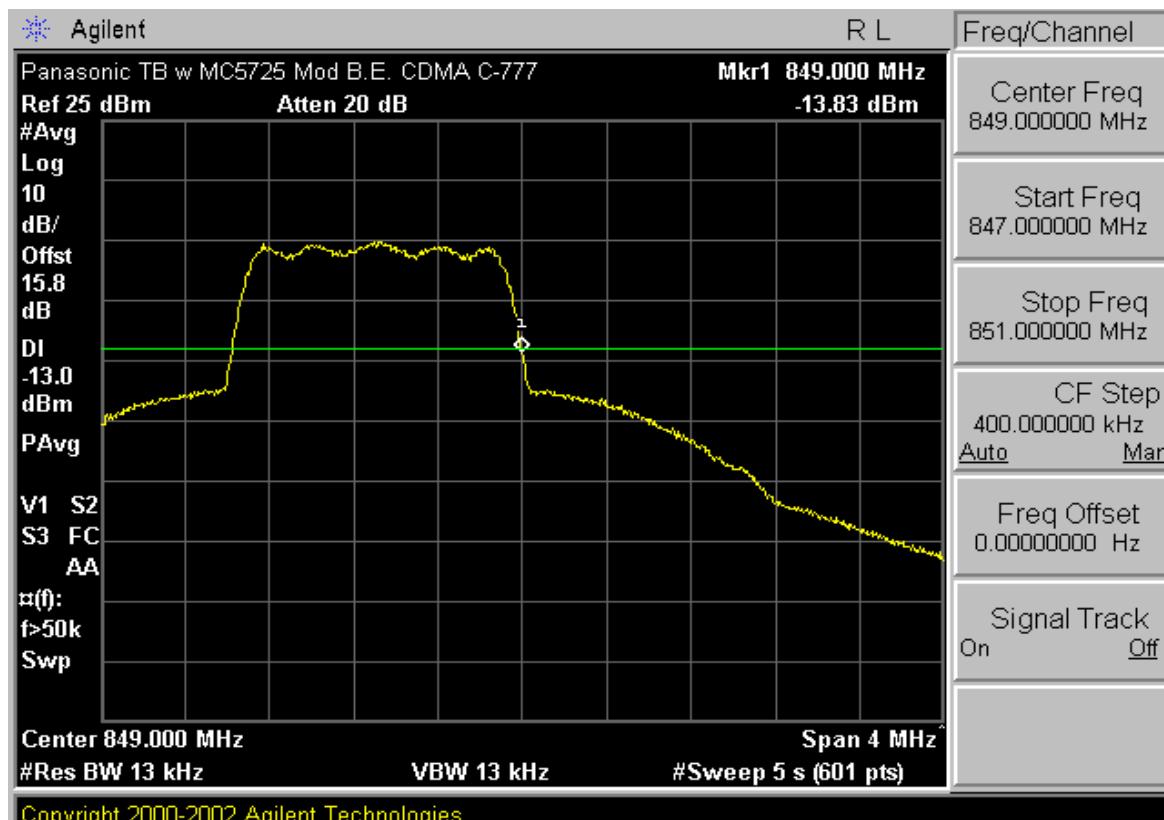


Plot A-8. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 4 of 11

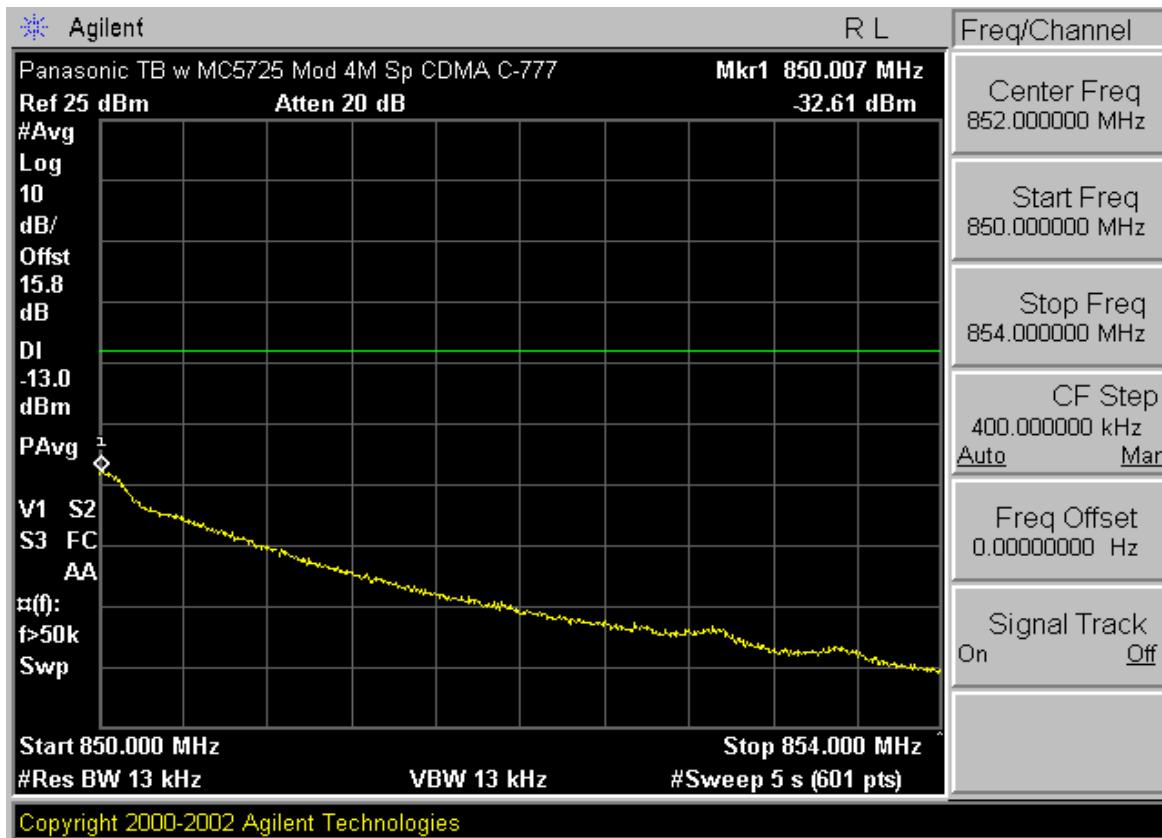


Plot A-9. Conducted Spurious Plot (Cellular CDMA Mode – Ch. 777)

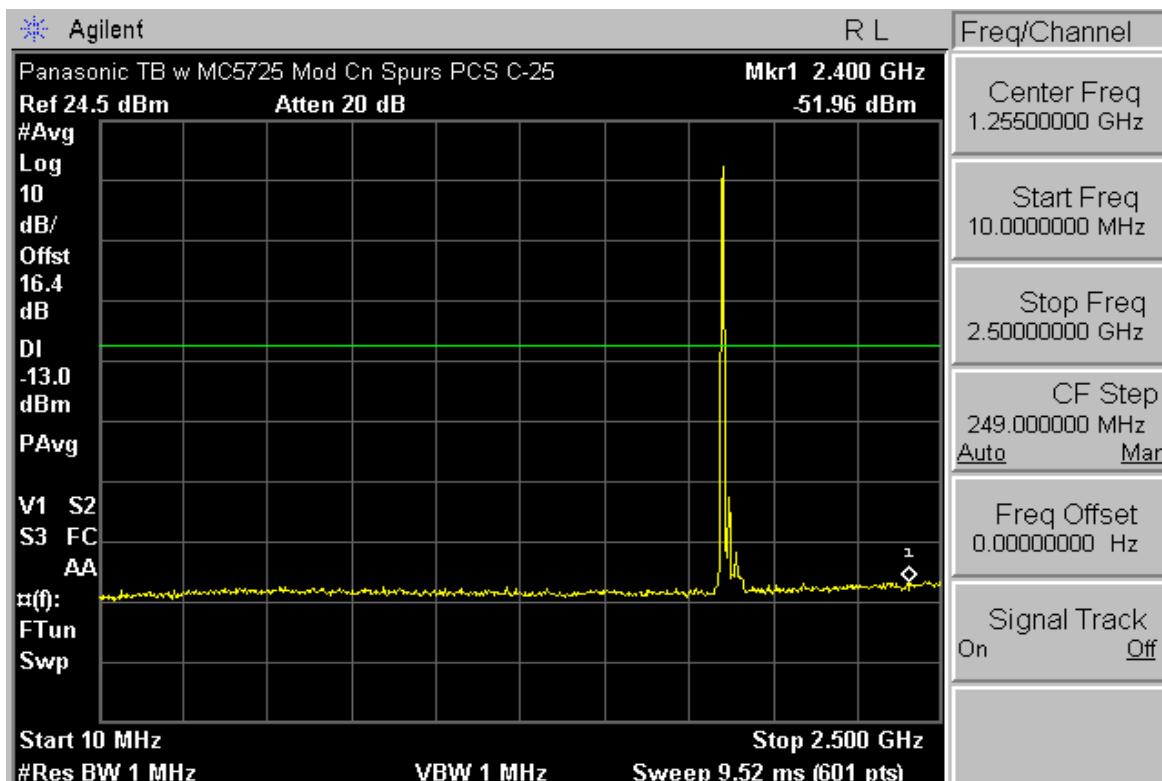


Plot A-10. Band Edge Plot (Cellular CDMA Mode – Ch. 777)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 5 of 11

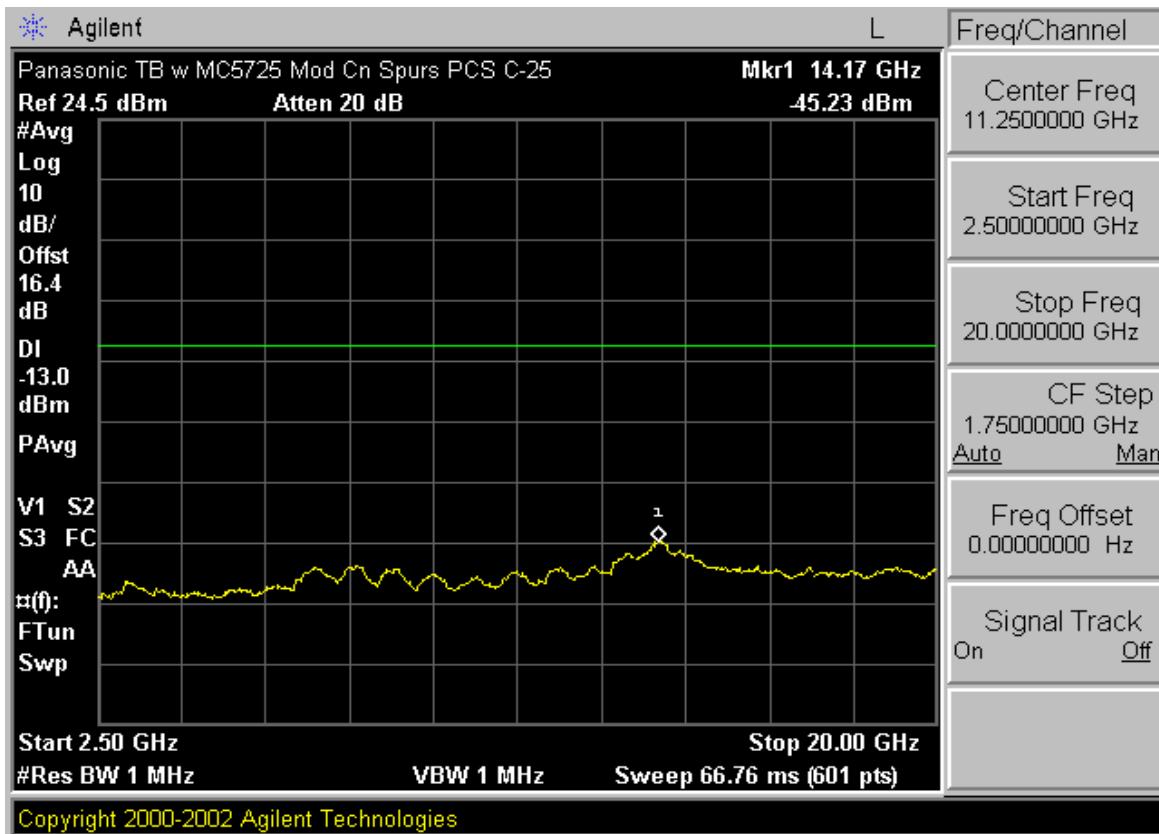


Plot A-11. 4MHz Span Plot (Cellular CDMA Mode – Ch. 777)

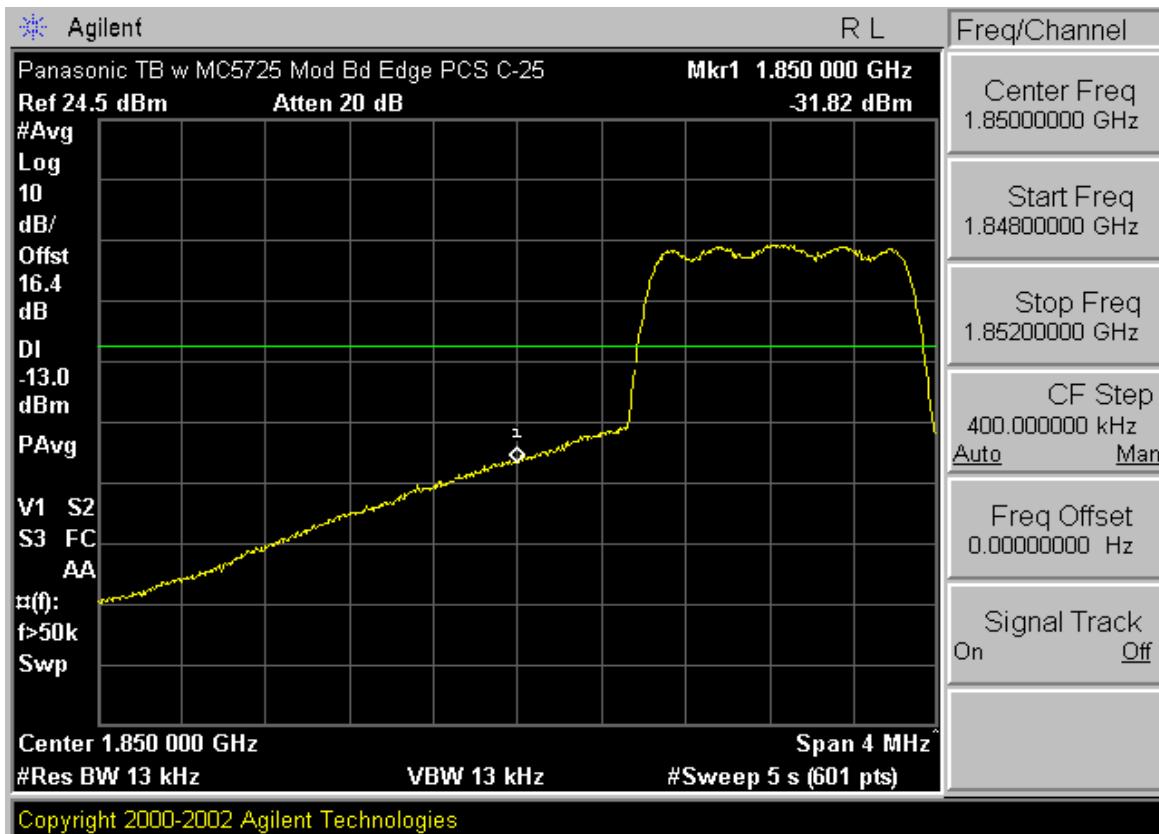


Plot A-12. Conducted Spurious Plot (PCS CDMA Mode – Ch. 25)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 6 of 11



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

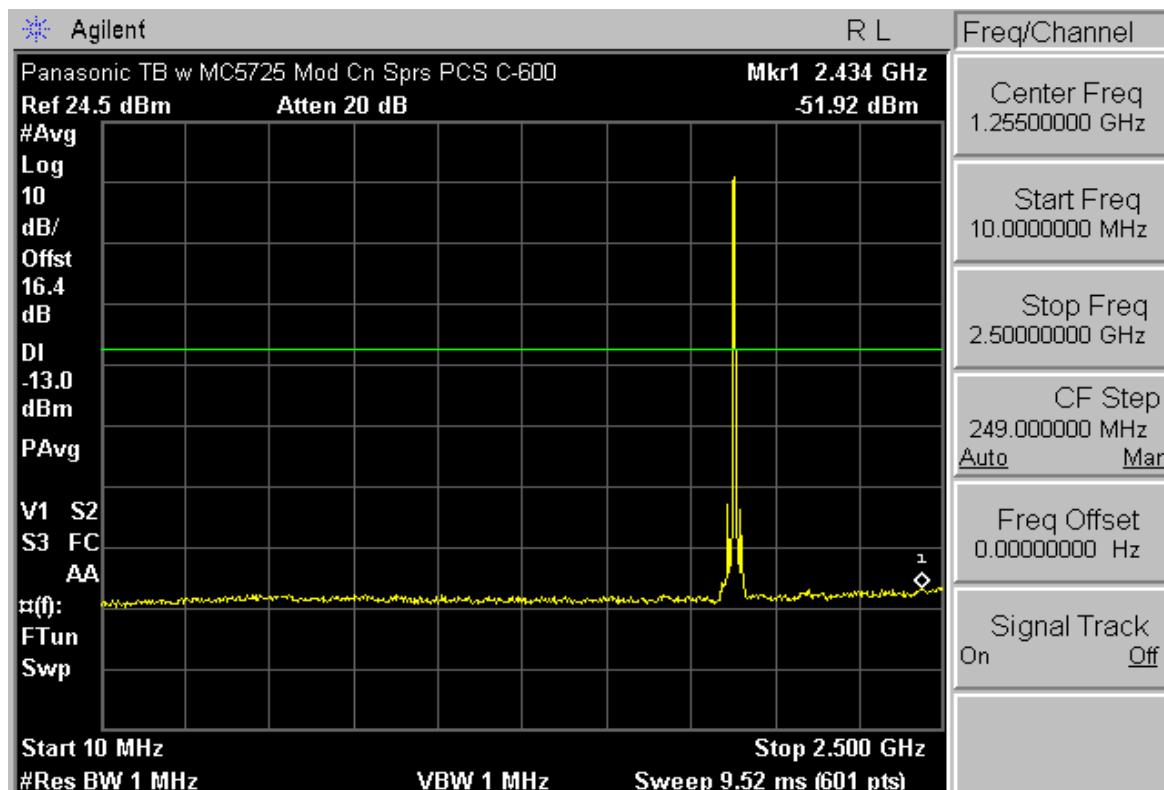


Plot A-14. Band Edge Plot (PCS CDMA Mode – Ch. 25)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 7 of 11



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

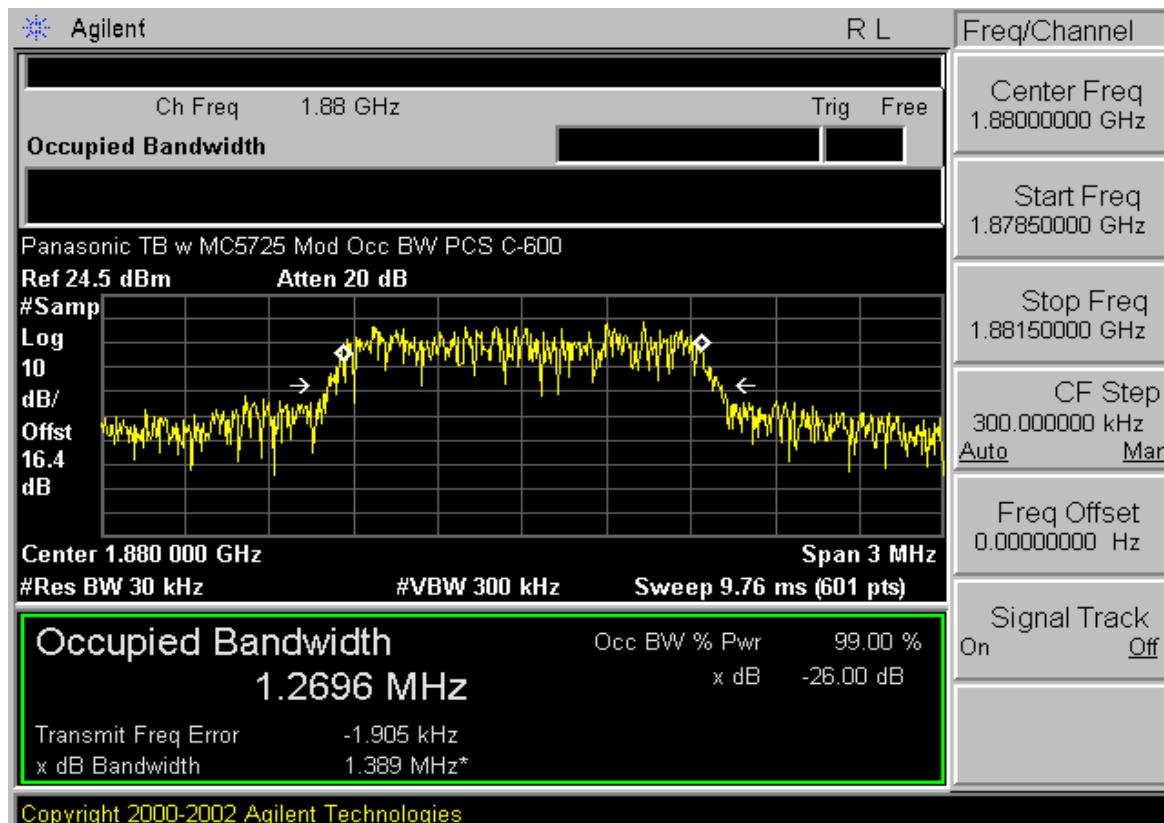


Plot A-16. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 8 of 11

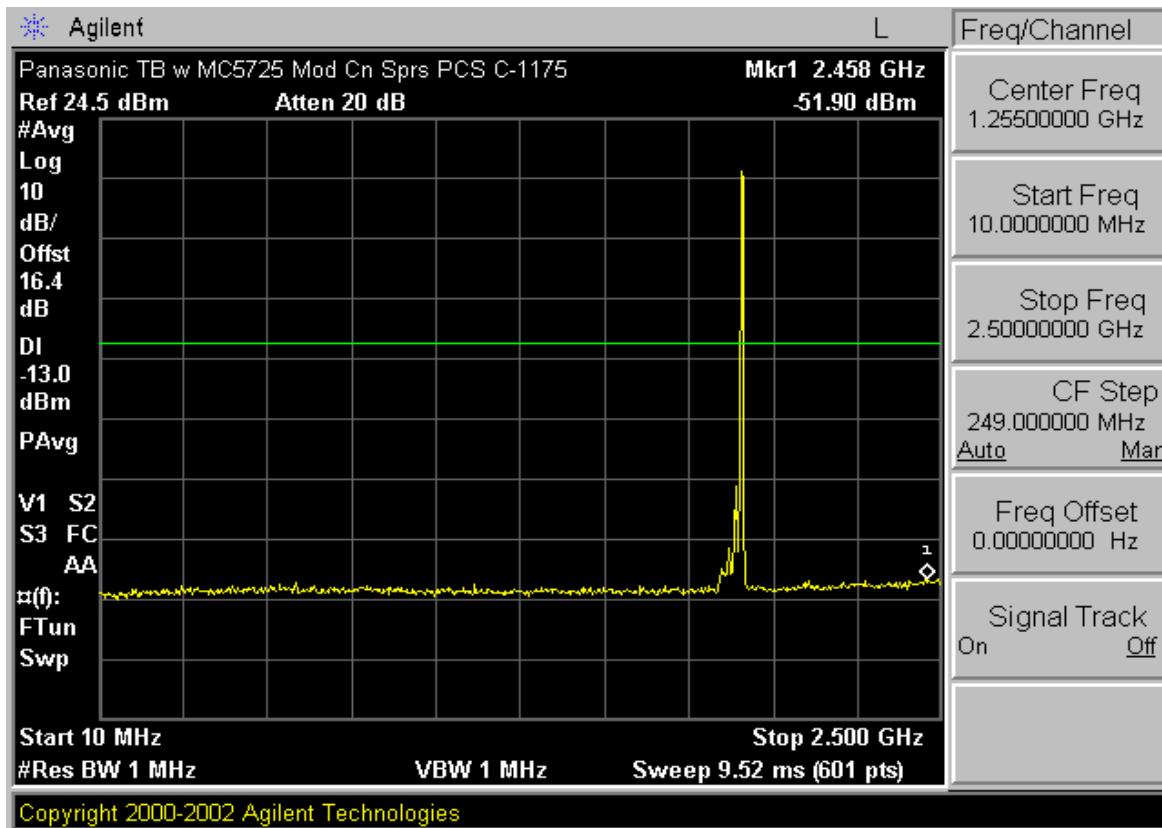


Plot A-17. Conducted Spurious Plot (PCS CDMA Mode – Ch. 600)

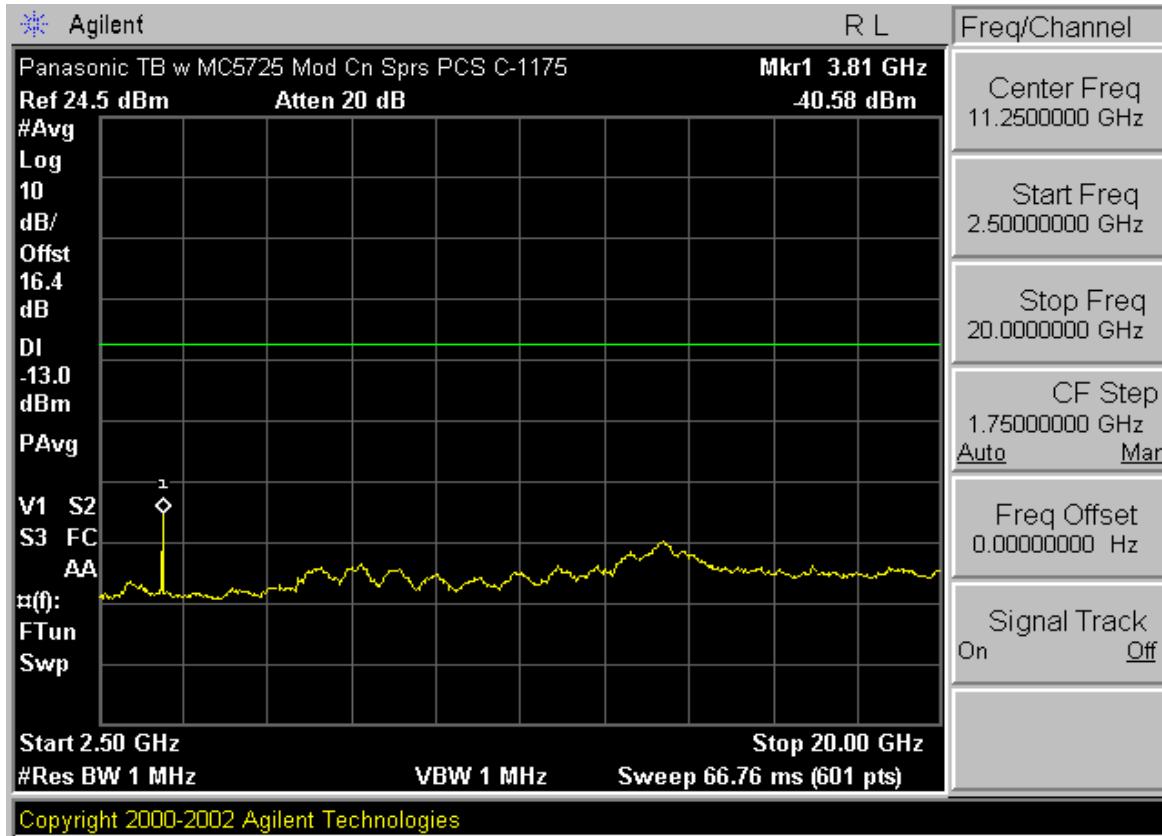


Plot A-18. Occupied Bandwidth Plot (PCS CDMA Mode – Ch. 600)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
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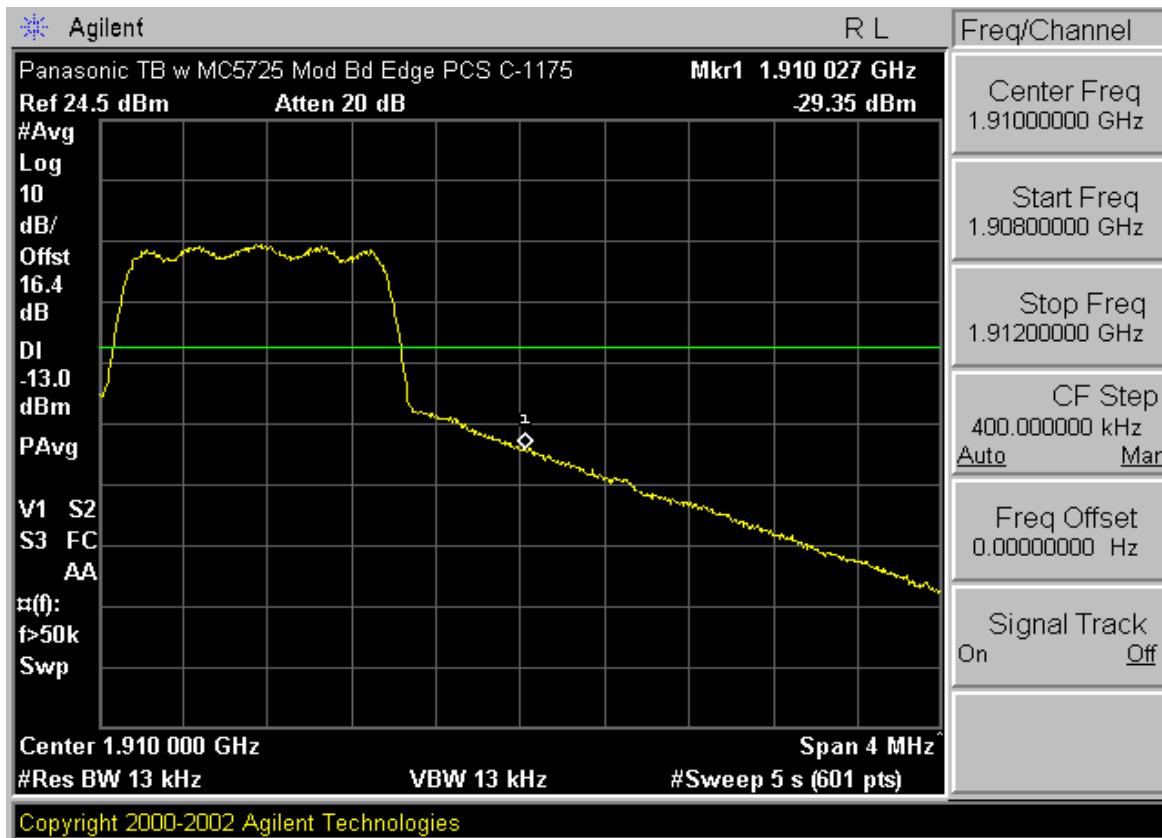


Plot A-19. Conducted Spurious Plot (PCS CDMA Mode – Ch. 1175)



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

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 10 of 11



Plot A-21. Band Edge Plot (PCS CDMA Mode – Ch. 1175)



Plot A-22. 4MHz Span Plot (PCS CDMA Mode – Ch. 1175)

FCC ID: ACJ9TGCF-W51		FCC Pt. 22/24 EVDO MODE CONDUCTED PLOTS	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 11 of 11



EXHIBIT B – TEST SETUP PHOTOGRAPHS

FCC ID: ACJ9TGCF-W51	 PCTEST WIRELESS	FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5		Page 27 of 28



EXHIBIT C – INTERNAL/EXTERNAL PHOTOGRAPHS

FCC ID: ACJ9TGCF-W51			 FCC Pt. 22/24 CDMA (EvDO) MEASUREMENT REPORT (Class II Permissive Change)	Panasonic	Reviewed by: Quality Manager
Test Report S/N: 0609200818-R1	Test Dates: November 22, 2006	EUT Type: Toughbook Model: CF-W5			Page 28 of 28