



FCC CFR47 PART 22 SUBPART H  
FCC CFR47 PART 24 SUBPART E  
INDUSTRY CANADA RSS-132 ISSUE 2  
INDUSTRY CANADA RSS-133 ISSUE 5

**CERTIFICATION TEST REPORT  
FOR  
CDMA/1x EVDO Phone with 802.11b/g and Bluetooth**

**MODEL NUMBER: P121EWW**

**FCC ID: O8F-PIXEW  
IC: 3905A-PIXEW**

**REPORT NUMBER: 09U12852-3, Revision A  
ISSUE DATE: NOVEMBER 12, 2009**

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Date	Issue	Revisions	Revised By
---	11/09/09		Initial Issue	T. Chan
A	11/12/09		Revised FCC ID	A. Zaffar

## TABLE OF CONTENTS

<b>1. ATTESTATION OF TEST RESULTS.....</b>	<b>4</b>
<b>2. TEST METHODOLOGY .....</b>	<b>5</b>
<b>3. FACILITIES AND ACCREDITATION.....</b>	<b>5</b>
<b>4. CALIBRATION AND UNCERTAINTY .....</b>	<b>5</b>
4.1. <i>MEASURING INSTRUMENT CALIBRATION.....</i>	<i>5</i>
4.2. <i>SAMPLE CALCULATION.....</i>	<i>5</i>
4.3. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>5</i>
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>6</b>
5.1. <i>DESCRIPTION OF EUT.....</i>	<i>6</i>
5.2. <i>TEST CONFIGURATIONS.....</i>	<i>7</i>
5.3. <i>MAXIMUM OUTPUT POWER.....</i>	<i>8</i>
5.4. <i>DESCRIPTION OF AVAILABLE ANTENNAS.....</i>	<i>8</i>
5.5. <i>SOFTWARE AND FIRMWARE.....</i>	<i>8</i>
5.6. <i>WORST-CASE CONFIGURATION AND MODE .....</i>	<i>9</i>
5.7. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>10</i>
<b>6. TEST AND MEASUREMENT EQUIPMENT .....</b>	<b>14</b>
<b>7. RF POWER OUTPUT VERIFICATION .....</b>	<b>15</b>
7.1. <i>RF POWER OUTPUT FOR 1xRTT.....</i>	<i>15</i>
7.2. <i>RF POWER OUTPUT FOR CDMA2000 1xEV-DO Release 0 (Rel. 0).....</i>	<i>18</i>
7.3. <i>RF POWER OUTPUT FOR CDMA2000 1xEV-DO Revision A (Rev. A) .....</i>	<i>19</i>
<b>8. CONDUCTED TEST RESULTS.....</b>	<b>20</b>
8.1. <i>OCCUPIED BANDWIDTH.....</i>	<i>20</i>
8.2. <i>BAND EDGE .....</i>	<i>29</i>
8.3. <i>OUT OF BAND EMISSIONS.....</i>	<i>38</i>
8.4. <i>FREQUENCY STABILITY.....</i>	<i>51</i>
<b>9. RADIATED TEST RESULTS .....</b>	<b>54</b>
9.1. <i>RADIATED POWER (ERP &amp; EIRP).....</i>	<i>54</i>
9.2. <i>FIELD STRENGTH OF SPURIOUS RADIATION .....</i>	<i>59</i>
9.3. <i>RECEIVER SPURIOUS EMISSIONS .....</i>	<i>68</i>
9.4. <i>POWER LINE CONDUCTED EMISSION .....</i>	<i>76</i>
<b>10. SETUP PHOTOS .....</b>	<b>79</b>

## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** PALM  
950 MAUDE AVENUE  
SUNNYVALE, CA 94085, U.S.A.

**EUT DESCRIPTION:** CDMA/1x EVDO Phone with 802.11b/g and Bluetooth

**MODEL:** P121EWW

**SERIAL NUMBER:** PD2CV9J94451

**DATE TESTED:** October 20 - November 02, 2009

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 22H and 24E	Pass
IC RSS-132 ISSUE 2 and RSS-133 ISSUE 5	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For CCS By:



Tested By:



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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, FCC CFR 47 Part 22, FCC CFR Part 24, RSS-132 Issue 2, and RSS-133 Issue 5.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) +  
Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

CDMA/1x EVDO Phone with 802.11b/g and Bluetooth.

#### GENERAL INFORMATION

<b>Power Requirements</b>	100-240 VAC / 50-60 Hz
<b>List of frequencies generated or used by the EUT</b>	600MHz

#### ACCESSORIES

The EUT was constructed and using the following accessories:

Accessories Description	Manufacturer/ Trademark	Part Number
AC Power Adapter source #1 Input Rating: 100–240 Vac, 50/60Hz, 0.2A Output Rating: 5Vdc, 1000mA	Palm	157-10130-00
AC Power Adapter source #2 Input Rating: 100–240 Vac, 50/60Hz, 0.2A Output Rating: 5Vdc, 1000mA	Palm	157-10124-00
Inductive Charging Dock Input Rating: 5Vdc, 1000mA	Palm	157-10123-00
Battery source #1 (Cell Origin Japan) Type: Rechargeable Li-ion Polymer Rating: 3.7Vdc, 1150mAh (minimum)	Palm	157-10119-00
Battery source #2 (Cell Origin Korea) Type: Rechargeable Li-ion Polymer Rating: 3.7Vdc, 1150mAh (minimum)	Palm	157-10119-00
Wired Stereo Headset	Palm	180-10632-00
USB cable	Palm	180-10647-00

## 5.2. TEST CONFIGURATIONS

The following configurations were investigated during RF testing:

Configuration	Description	Mode
1	EUT (for RF conducted test)	Stand alone
2	EUT (Standard backcover for RF radiated test)	Stand alone
3	EUT (Inductive backcover for RF radiated test)	Stand alone

The following configurations were investigated during radiated emission and power line conducted emission testing:

### AC Power Adapter Source #1 Part Number: 157-10130-00

Configuration	Description	Mode
4	EUT(Standard backcover) powered by AC adapter	Charging
5	EUT(Inductive backcover) powered by AC adapter	Charging
6	EUT(Inductive backcover) powered by Inductive Charging Dock. Note: Inductive charging dock connected to AC adapter.	Charging

### AC Power Adapter Source #2 Part Number: 157-10124-00

Configuration	Description	Mode
7	EUT(Standard backcover) powered by AC adapter	Charging
8	EUT(Inductive backcover) powered by AC adapter	Charging
9	EUT (Inductive backcover) powered by Inductive Charging Dock. Note: Inductive Charging Dock connected to AC adapter.	Charging

Configuration	Description	Mode
10	EUT(Standard backcover) powered by PC through USB cable	Charging
11	EUT(Inductive backcover) powered by PC through USB cable	Charging

### 5.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum output power as follows:

Part 22 Cellular Band

Frequency range (MHz)	Modulation	Conducted		ERP (Standard Cover)		ERP (Inductive Cover)	
		dBm	mW	dBm	mW	dBm	mW
824.7 – 848.31	1xRTT (RC1, SO55)	28.80	758.6	28.2	660.7	26.8	478.6
824.7 – 848.31	EV-DO - REV A	28.82	762.1	27.8	602.6	28.0	631.0

Part 24 PCS Band

Frequency range (MHz)	Modulation	Conducted		EIRP( Standard Cover)		EIRP(Inductive Cover)	
		dBm	mW	dBm	mW	dBm	mW
1851.25 – 1908.8	1xRTT (RC1, SO55)	28.50	707.9	28.8	758.6	28.0	631.0
1851.25 – 1908.8	EV-DO - REV A	27.38	547.0	29.1	812.8	29.1	812.8

### 5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral antenna for the 900MHz and 1800MHz bands with a maximum peak gain of 0.2 dBi for cell band and 0.6dBi for PCS band.

### 5.5. SOFTWARE AND FIRMWARE

The EUT is linked with Agilent Communication Test Set.

## 5.6. WORST-CASE CONFIGURATION AND MODE

The worst-case channel for RF radiated emissions below 1GHz and AC conducted emissions are determined as the channel with the AC Power Adapter Source #1 Part Number: 157-10130-00 / 157-10124-00 and Configuration 1: EUT (Standard backcover) powered by AC adapter.

Based on the investigation results, the highest peak power and enhanced data rate is the worst-case scenario for all measurements.

Worst case modes:

- For Cellular and PCS band: 1xRTT (RC1 SO55)
- For Cellular and PCS band: CDMA2000 1xEV-DO Revision A (Rev. A)

The worst-case configuration has been evaluated on EUT with antenna @ Y-position for both 850MHz and 1900MHz bands by comparing the fundamental ERP / EIRP output power.

## 5.7. DESCRIPTION OF TEST SETUP

### I/O CABLES ( RF CONDUCTED TEST )

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	NA
2	DC	1	DC	Un-shielded	2m	NA
3	Directional	1	Spectrum Analyzer	Un-shielded	1m	NA
4	RF In/Out	1	Communications Test Set	Un-shielded	1m	NA
5	Directional	1	EUT	Un-shielded	NA	NA

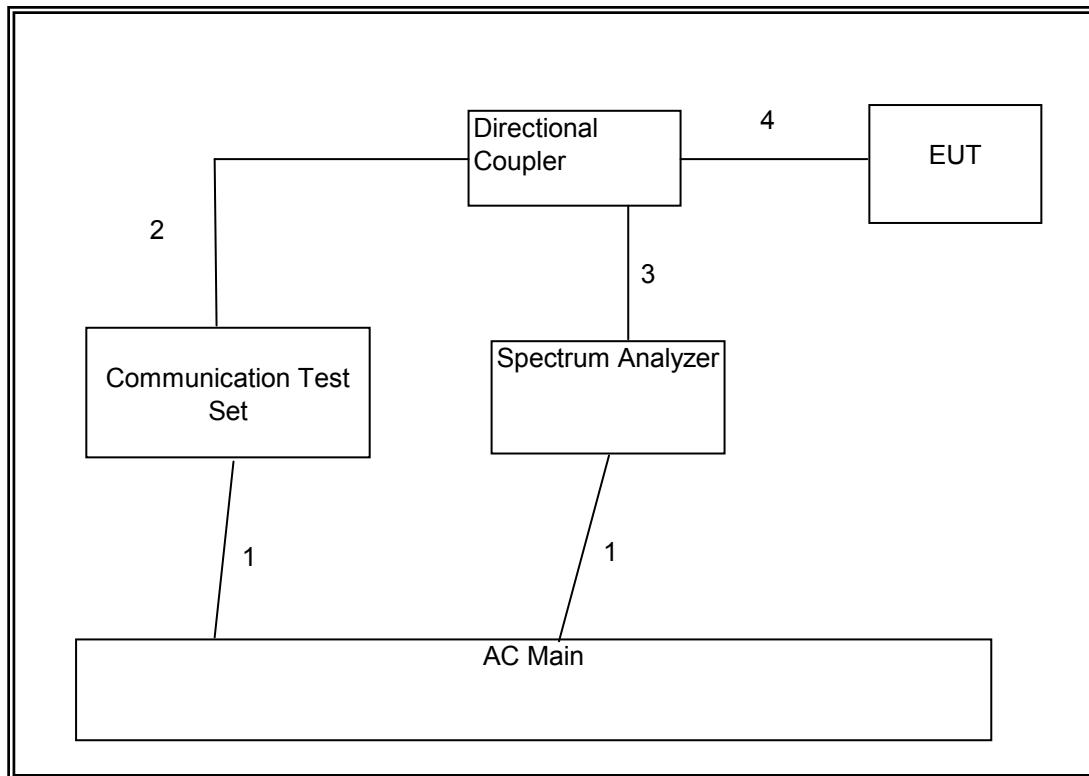
### I/O CABLES ( RF RADIATED TEST )

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	NA
2	DC	1	DC	Un-shielded	2m	NA
3	RF In/Out	1	Horn	Un-shielded	1m	NA

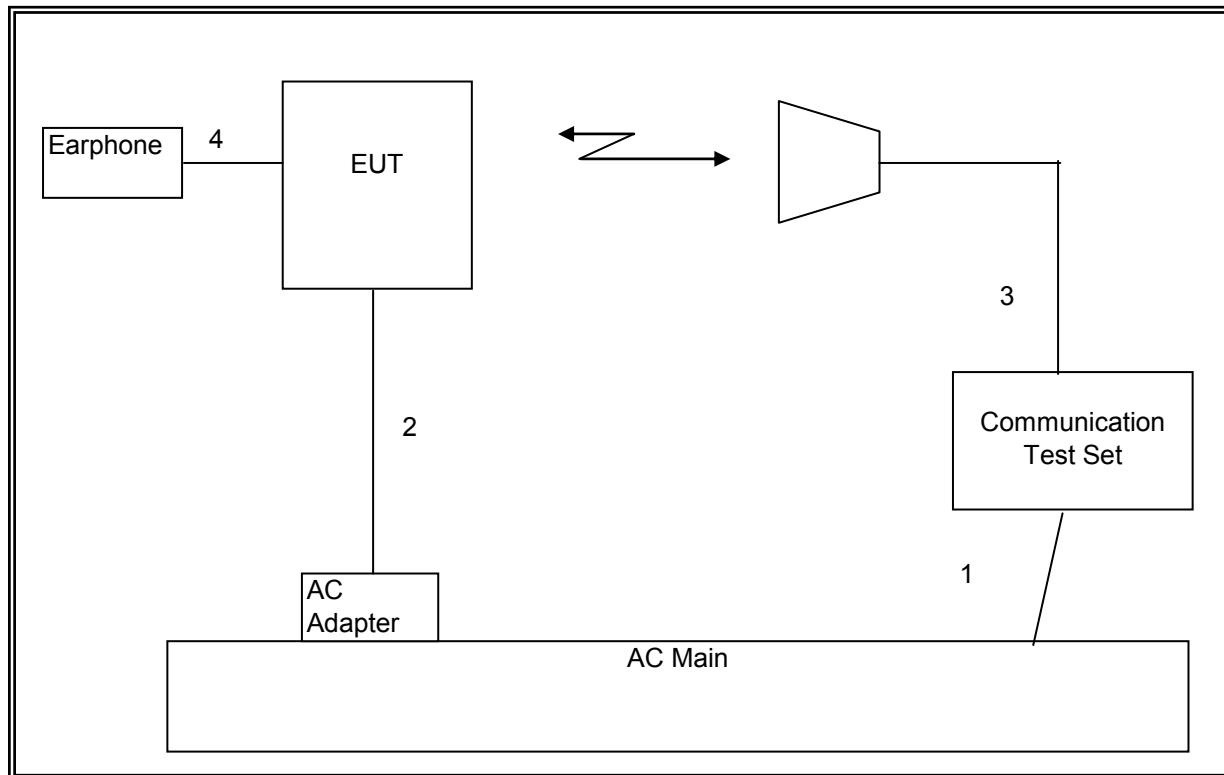
## **TEST SETUP**

The EUT is a stand-alone device. The Wireless Communication test set exercised the EUT.

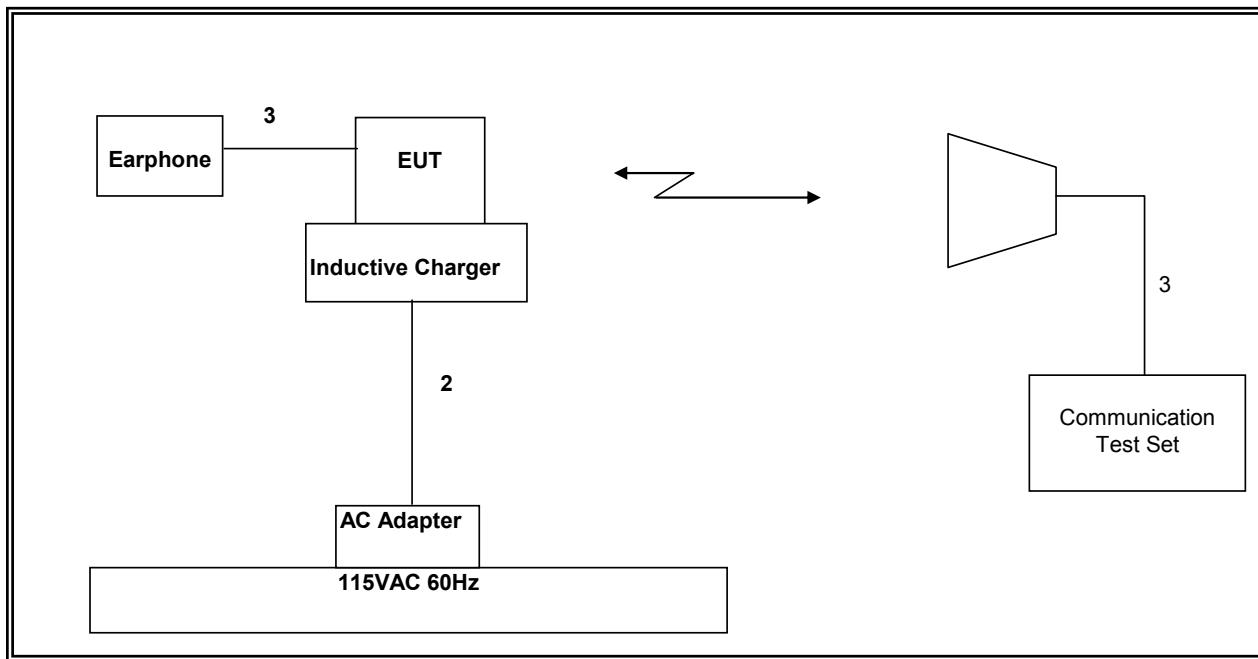
### **SETUP DIAGRAM FOR RF CONDUCTED TESTS**



**SETUP DIAGRAM FOR RF RADIATED TESTS (Standard Backcover)**



**SETUP DIAGRAM FOR RF RADIATED TESTS (Inductive Backcover)**



## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01159	02/07/10
Antenna, Horn, 18 GHz	EMCO	3115	C00872	01/29/10
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	12/16/09
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	02/04/10
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	05/06/11
Communication Test Set	R & S	CMU 200	C01131	02/27/11
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	11/05/10
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	C00930	04/06/10
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02689	CNR
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	N02687	CNR
Directional Coupler, 18 GHz	Krytar	1817	N02656	CNR
Signal Generator, 20 GHz	Agilent / HP	83732B	C00774	07/03/10
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121C DB4	C00993	06/28/10

## 7. RF POWER OUTPUT VERIFICATION

Maximum output power is verified on the Low, Middle and High channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E for 1xRTT, section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rel. 0 and section 4.3.4 of 3GPP2 C.S0033-A for Rev. A

## 7.1. RF POWER OUTPUT FOR 1xRTT

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

**RF Power Output Results for 1XRTT**

RF Power Output for 1xRTT - Cell Band		Conducted Output Power (dBm)					
Radio Configuration (RC)	Service Option (SO)	Ch. 1013/824.7MHz		Ch. 384/836.52MHz		Ch. 777/848.31MHz	
		Average	Peak	Average	Peak	Average	Peak
RC1 (Fwd1, Rvs1)	1 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	2 (Loopback)	23.95	28.5	24.05	28.6	24.14	28.6
	3 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	<b>55 (Loopback)</b>	<b>24.16</b>	<b>28.8</b>	<b>24.05</b>	<b>28.8</b>	<b>24.23</b>	<b>28.8</b>
	68 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
RC2 (Fwd2, Rvs2)	9 (Loopback)	24.20	28.7	24.15	28.7	24.15	28.8
	17 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	24.10	28.3	24	28.5	24.05	28.3
	32768 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
RC3 (Fwd3, Rvs3)	1 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	2 (Loopback)	23.91	28.2	24.51	28.5	24.31	27.9
	3 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	<b>55 (Loopback)</b>	23.89	28.0	24.50	28.1	24.32	28.2
	<b>32 (+ F-SCH)</b>	23.92	28	24.30	28.3	24.35	28.3
	32 (+ SCH)	23.88	28	24.26	28.2	24.32	28.2
	68 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
RC4 (Fwd4, Rvs3)	1 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	2 (Loopback)	23.75	27.9	23.78	28	24	28.2
	3 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	23.67	27.7	23.75	27.7	23.75	28.1
	32 (+ F-SCH)	23.85	28.0	23.95	28.1	24.10	28.2
	32 (+ SCH)	23.82	27.90	23.87	27.9	23.98	28.0
RC5 (Fwd5, Rvs4)	68 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	9 (Loopback)	23.85	27.9	23.88	28.0	24.00	28.2
	17 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	23.95	28.1	23.90	28.2	24.2	28.3
	32768 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a

**RF Power Output Results for 1xRTT**

RF Power Output for 1xRTT - PCS Band		Conducted Output Power (dBm)					
Radio Configuration (RC)	Service Option (SO)	Ch. 25/1851.25MHz		Ch. 600/1880MHz		Ch. 1175/1908.75 MHz	
		Average	Peak	Average	Peak	Average	Peak
RC1 (Fwd1, Rvs1)	1 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	2 (Loopback)	23.15	27.8	23.43	28.4	23.11	27.7
	3 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	23.40	28.2	23.70	28.50	23.20	28
	68 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
RC2 (Fwd2, Rvs2)	9 (Loopback)	23.20	27.8	23.50	28.3	23.12	27.8
	17 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	23.39	27.7	23.63	28.0	23.40	27.8
	32768 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
RC3 (Fwd3, Rvs3)	1 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	2 (Loopback)	23.13	27.4	23.11	27.6	23.11	27.3
	3 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	23.17	27.4	23.14	27.7	23.11	27.3
	32 (+ F-SCH)	23.18	27.6	23.18	27.8	23.19	27.4
	32 (+ SCH)	23.14	27.4	23.17	27.7	23.18	27.4
RC4 (Fwd4, Rvs3)	68 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	1 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	2 (Loopback)	23.16	27.5	23.20	27.7	23.13	27.4
	3 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	23.18	27.5	23.21	28.0	23.13	27.5
	32 (+ F-SCH)	23.18	27.5	23.35	27.80	23.20	27.4
RC5 (Fwd5, Rvs4)	32 (+ SCH)	23.15	27.5	23.32	27.80	23.15	27.3
	68 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	9 (Loopback)	23.25	27.5	23.35	27.9	23.20	27.5
	17 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a
	55 (Loopback)	23.25	27.5	23.23	27.80	23.17	27.5
	32768 (Voice)	n/a	n/a	n/a	n/a	n/a	n/a

## 7.2. RF POWER OUTPUT FOR CDMA2000 1xEV-DO Release 0 (Rel. 0)

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

<u>Application</u>	<u>Rev. License</u>
1xEV-DO Terminal Test	A.09.13

### EVDO Release 0 - RTAP

- Call Setup > Shift & Preset
- Call Control:
  - Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
  - Generator Info > Termination Parameters > Max Forward Packet Duration > 16 Slots
- CallParms:
  - Cell Power > -105.5 dBm/1.23 MHz
  - Cell Band > (Select US Cellular or US PCS)
  - Channel > (Enter channel number)
  - Application Config > Enhanced Test Application Protocol > RTAP
  - RTAP Rate > 153.6 kbps
  - Rvs Power Ctrl > Active bits
  - Protocol Rel > 0 (1xEV-DO)
- Press "Start Data Connection" when "Session Open" appear in "Active Cell"
- Rvs Power Ctrl > All Up bits (Maximum TxPout)

### EVDO Release 0 - FTAP

- Call Setup > Shift & Preset
- Call Control:
  - Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
  - Generator Info > Termination Parameters > Max Forward Packet Duration > 16 Slots
- CallParms:
  - Cell Power > -105.5 dBm/1.23 MHz
  - Cell Band > (Select US Cellular or US PCS)
  - Channel > (Enter channel number)
  - Application Config > Enhanced Test Application Protocol > FTAP (default)
  - FTAP Rate > 307.2 kbps (2 Slot, QPSK)
  - Rvs Power Ctrl > Active bits
  - Protocol Rel > 0 (1xEV-DO)
- Press "Start Data Connection" when "Session Open" appear in "Active Cell"
- Rvs Power Ctrl > All Up bits (Maximum TxPout)

### RF Power Output for CDMA2000 1xEV-DO Release 0 (Rel. 0)

#### Cell Band

FTAP Rate	RTAP Rate	Channel	f (MHz)	Conducted power (dBm)	
				Average	Peak
307.2 kbps (2 slot, QPSK)	153.6 kbps	1013	824.70	23.68	27.82
		384	836.52	23.77	28.13
		777	848.31	23.77	28.04

#### PCS Band

FTAP Rate	RTAP Rate	Channel	f (MHz)	Conducted power (dBm)	
				Average	Peak
307.2 kbps (2 slot, QPSK)	153.6 kbps	25	1851.25	23.29	28.30
		600	1880.00	23.50	28.53
		1175	1908.75	23.38	28.22

### 7.3. RF POWER OUTPUT FOR CDMA2000 1xEV-DO Revision A (Rev. A)

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

Application	Rev. License
1xEV-DO Terminal Test	A.09.13

#### EVDO Release A – RETAP

- Call Setup > Shift & Preset
  - Cell Power > -60 dBm/1.23 MHz
  - Protocol Rev > A (1xEV-DO-A)
  - Application Config > Enhanced Test Application Protocol > RETAP
  - R-Data Pkt Size > 4096
  - Protocol Subtype Config > Release A Physical Layer Subtype > Subtype 2
- > PL Subtype 2 Access Channel MAC Subtype > Default (Subtype 0)
- Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
  - Generator Info > Termination Parameters > Max Forward Packet Duration >16 Slots > ACK R-Data After > Subpacket 0 (All ACK)
  - Rvs Power Ctrl > All Up bits (to get the maximum power)

#### EVDO Release A - FETAP

- Call Setup > Shift & Preset
  - Cell Power > -60 dBm/1.23 MHz
  - Protocol Rev > A (1xEV-DO-A)
  - Application Config > Enhanced Test Application Protocol > FETAP
  - F-Traffic Format > 4 (1024, 2,128) Canonical (307.2k, QPSK)
  - Protocol Subtype Config > Release A Physical Layer Subtype > Subtype 2
- > PL Subtype 2 Access Channel MAC Subtype > Default (Subtype 0)
- Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
  - Generator Info > Termination Parameters > Max Forward Packet Duration >16 Slots > ACK R-Data After > Subpacket 0 (All ACK)
  - Rvs Power Ctrl > All Up bits (to get the maximum power)

#### RF Power Output Results for CDMA2000 1xEV-DO Revision A (Rev. A)

##### Cell Band

FETAP-Traffic Format	RETAP-Data Payload Size	Channel	f (MHz)	Conducted power (dBm)	
				Average	Peak
307.2k, QPSK/ ACK channel is transmitted at all the slots	4096	1013	824.70	23.14	28.47
		384	836.52	24.03	28.82
		777	848.31	23.80	28.34

##### PCS Band

FETAP-Traffic Format	RETAP-Data Payload Size	Channel	f (MHz)	Conducted power (dBm)	
				Average	Peak
307.2k, QPSK/ ACK channel is transmitted at all the slots	4096	25	1851.25	23.15	27.10
		600	1880.00	23.12	27.38
		1175	1908.75	23.14	26.45

## 8. CONDUCTED TEST RESULTS

### 8.1. OCCUPIED BANDWIDTH

#### RULE PART(S)

FCC: §2.1049  
IC: RSS-Gen, 4.6

#### LIMITS

For reporting purposes only

#### TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

#### MODES TESTED

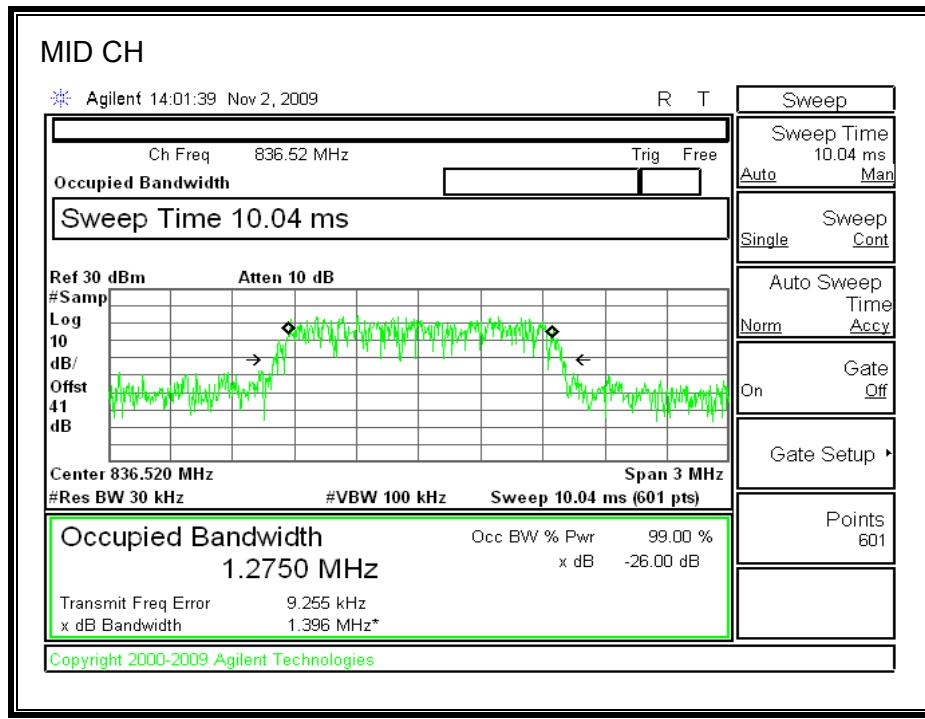
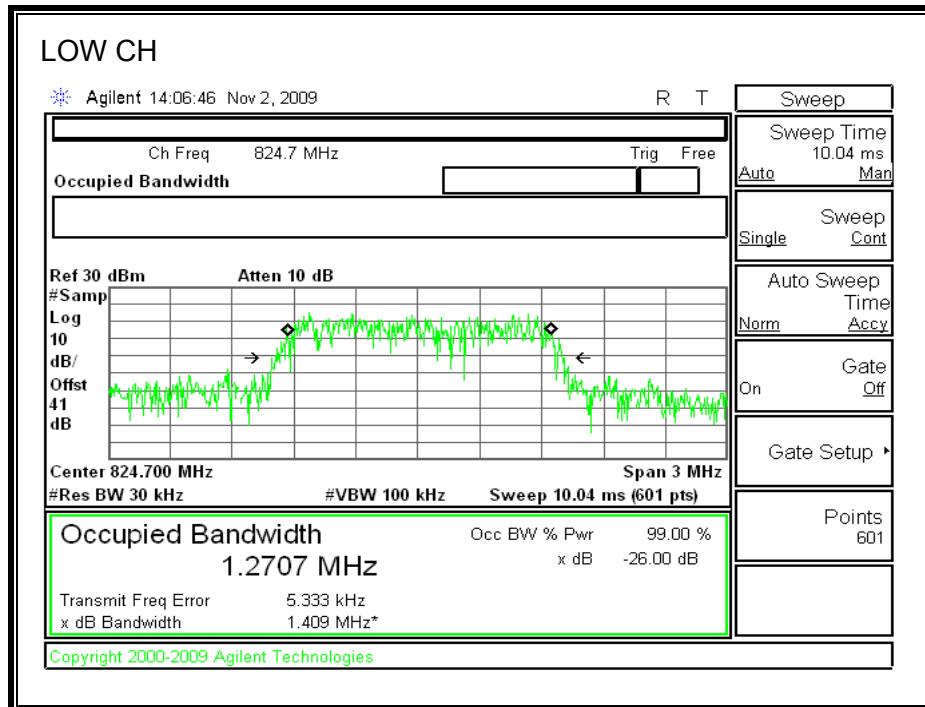
- 1xRTT - RC1, SO55
- CDMA2000 1xEV-DO Revision A (Rev. A)

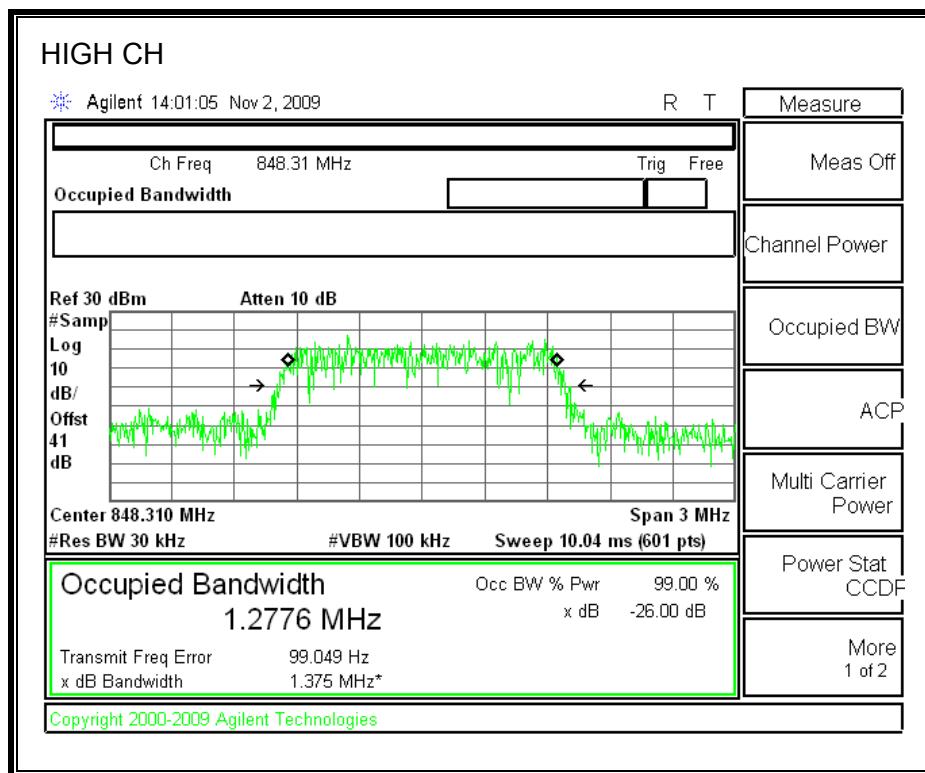
#### RESULTS

Band	Mode	Channel	f (MHz)	99% BW (MHz)	-26dB BW MHz
Cellular	1xRTT	1013	824.70	1.2707	1.409
		384	836.52	1.2750	1.396
		777	848.31	1.2776	1.375
	CDMA2000 1xEV-DO Revision A (Rev. A)	1013	824.70	1.2777	1.382
		384	836.52	1.2769	1.386
		777	848.31	1.2751	1.408
PCS	1xRTT	25	1851.25	1.2727	1.391
		600	1880.0	1.2749	1.417
		1175	1908.75	1.2786	1.385
	CDMA2000 1xEV-DO Revision A (Rev. A)	25	1851.25	1.2628	1.389
		600	1880.0	1.2698	1.413
		1175	1908.75	1.2608	1.381

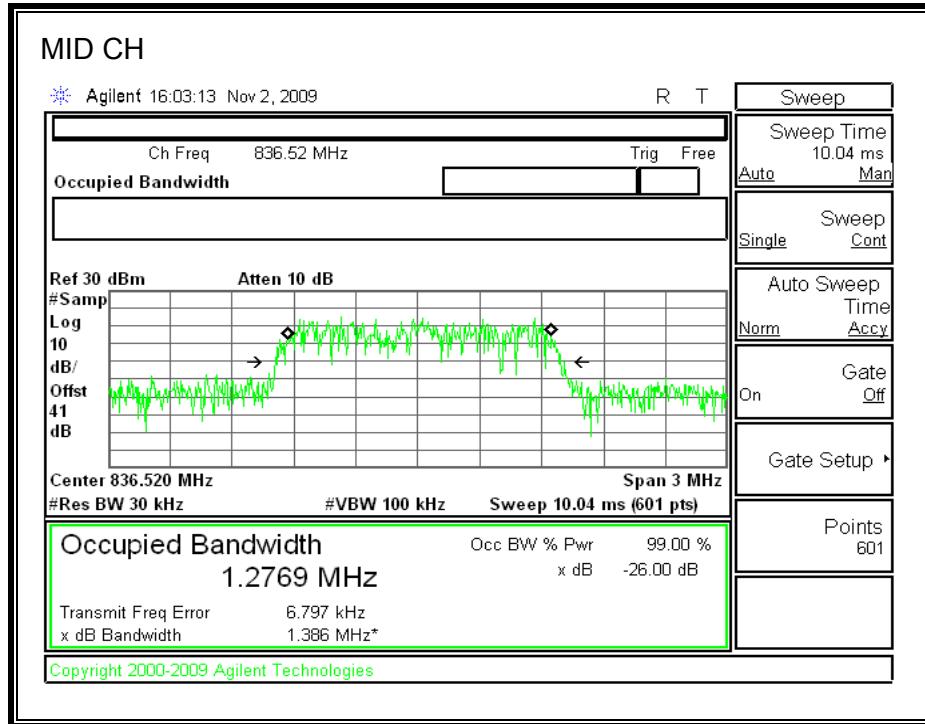
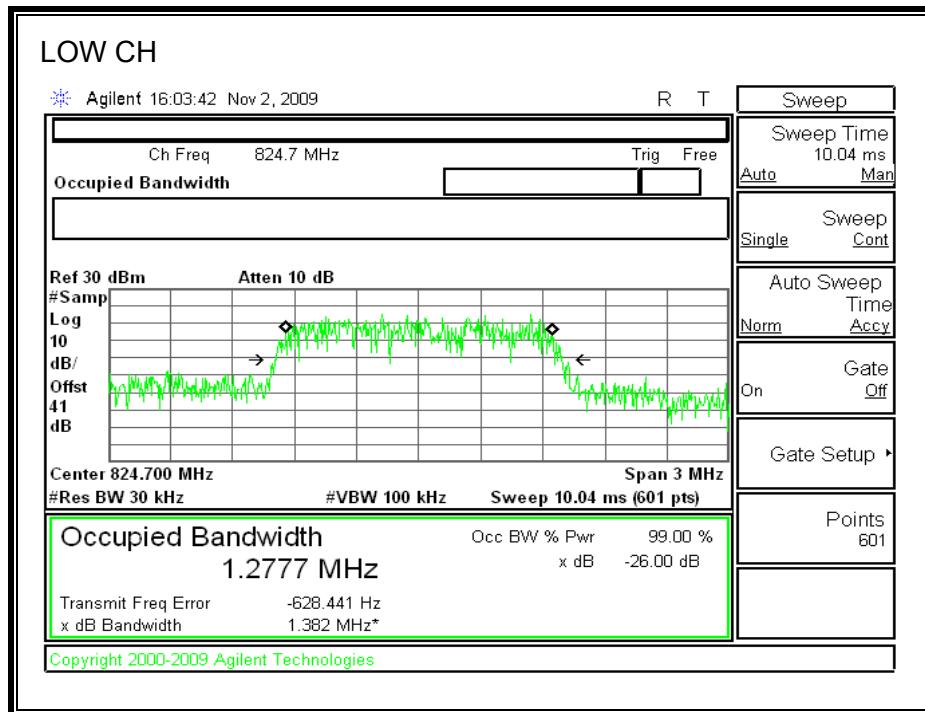
**CDMA2000 1xRTT Mode (Cellular Band)**

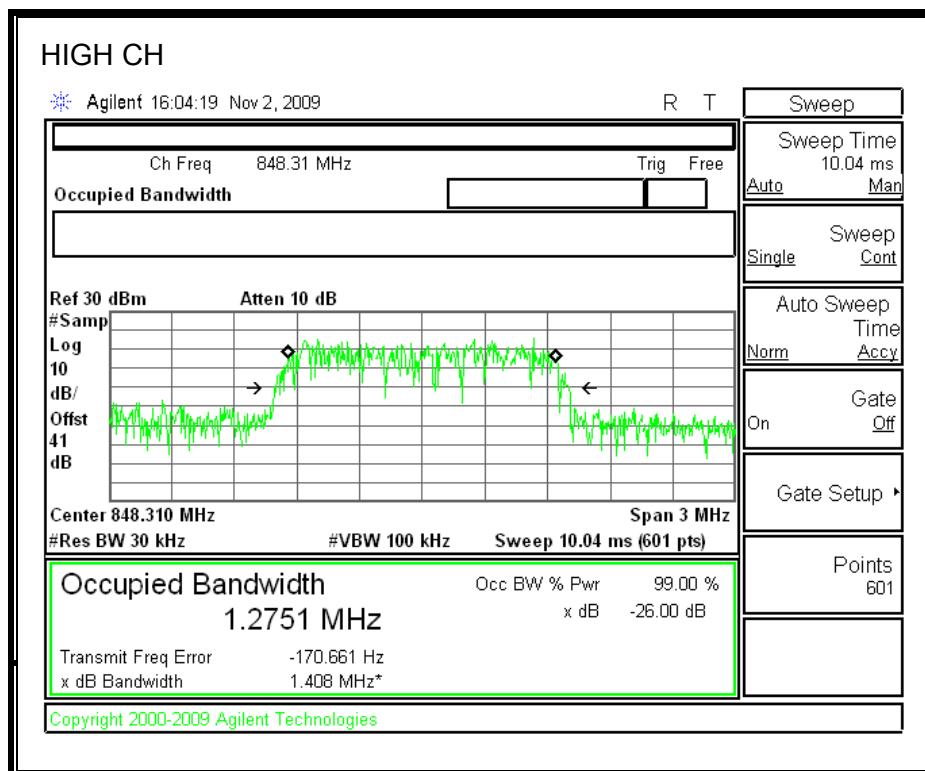
**99% BANDWIDTH and 26dB**



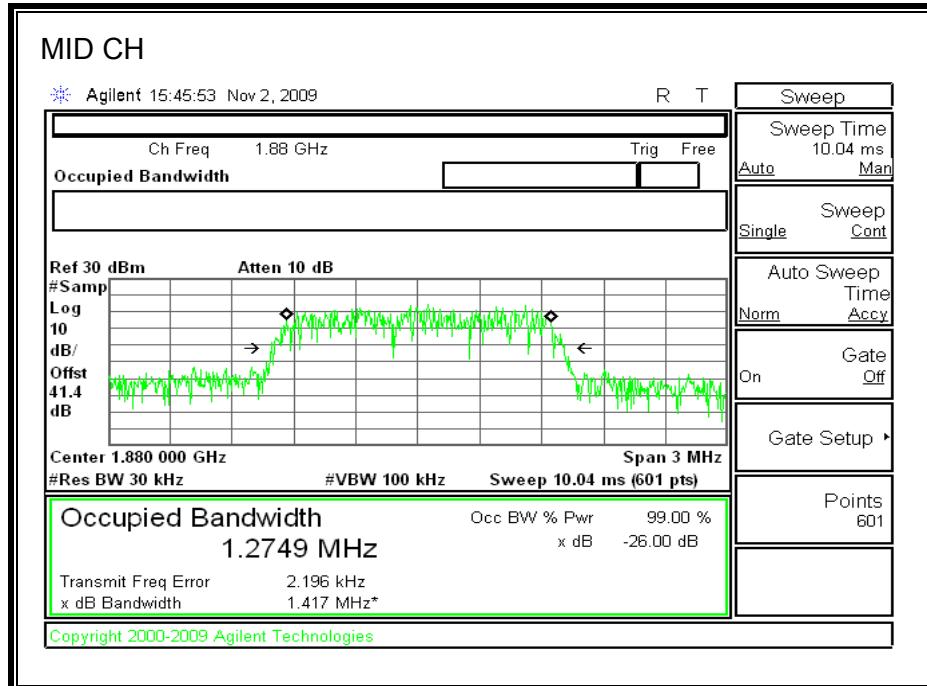
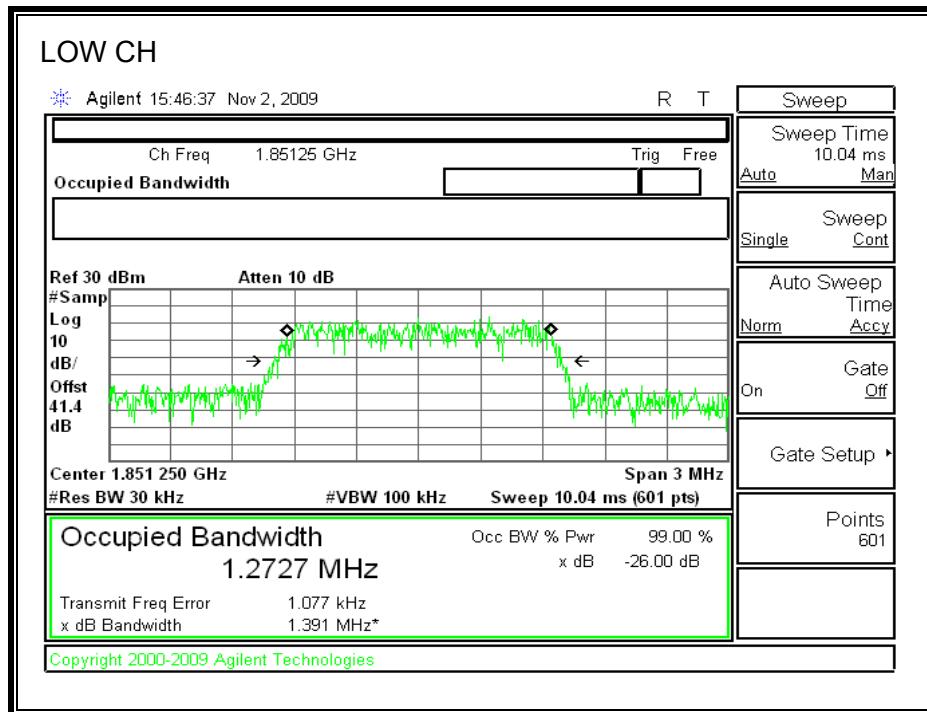


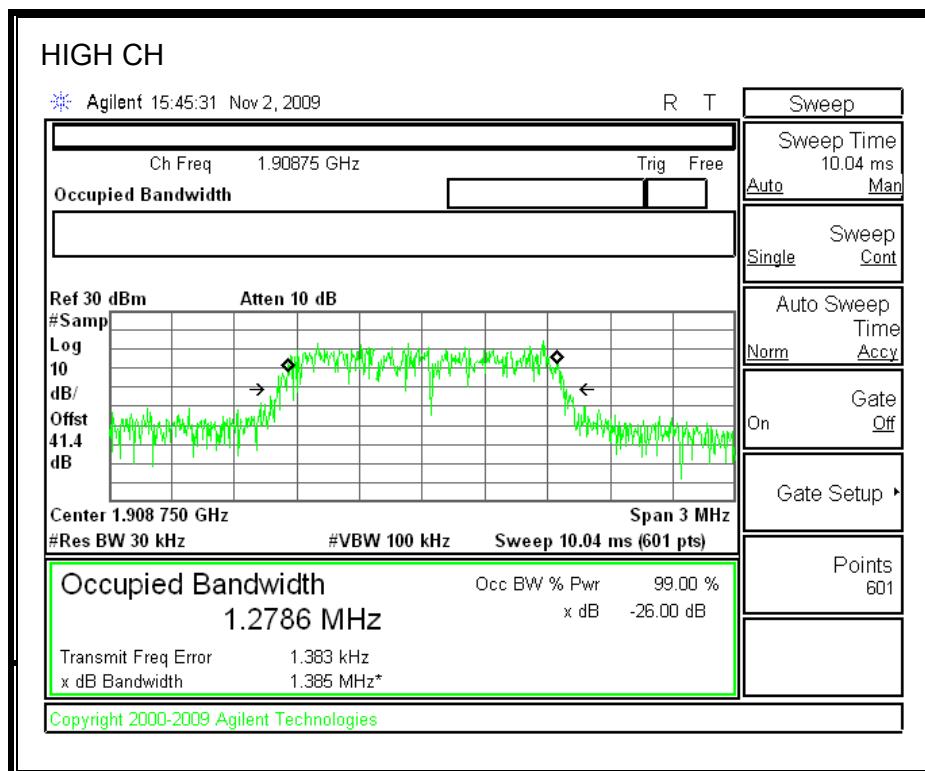
**CDMA2000 1xEV-DO Revision A (Rev. A) Cellular Band**



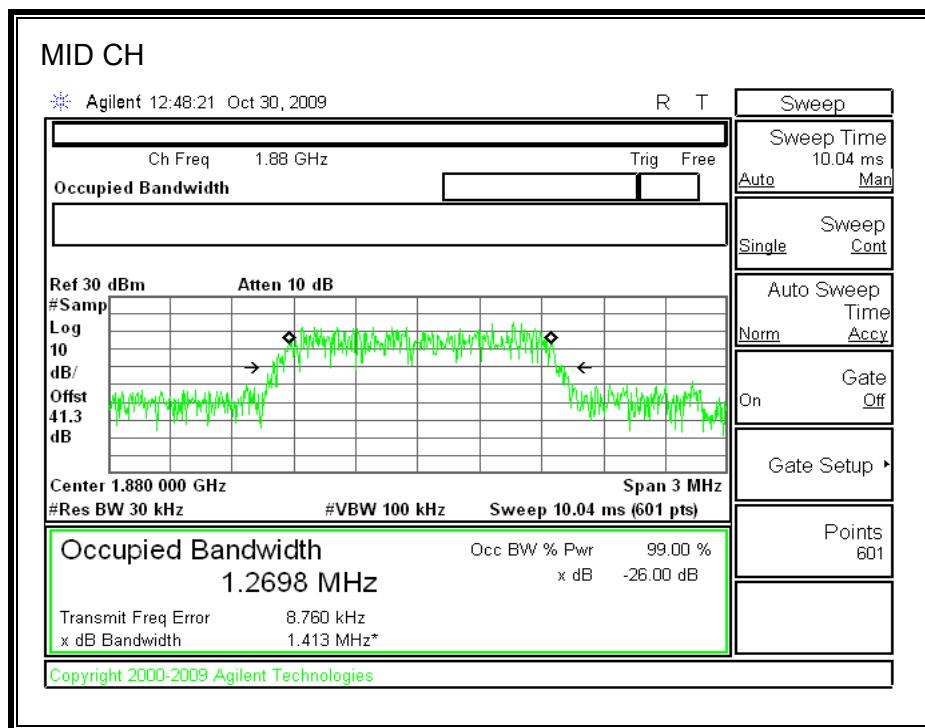
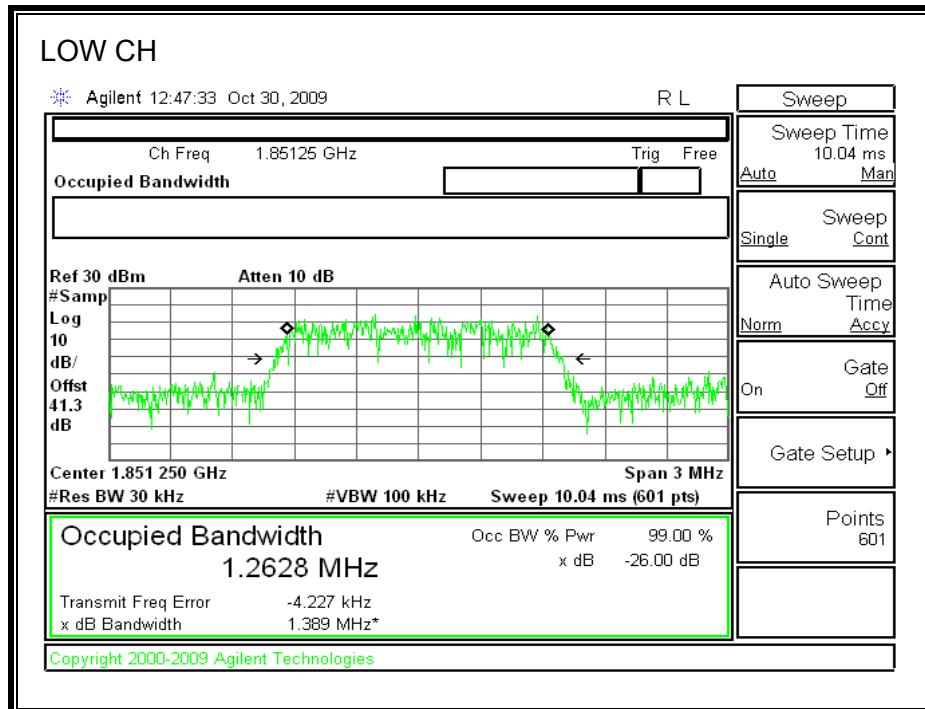


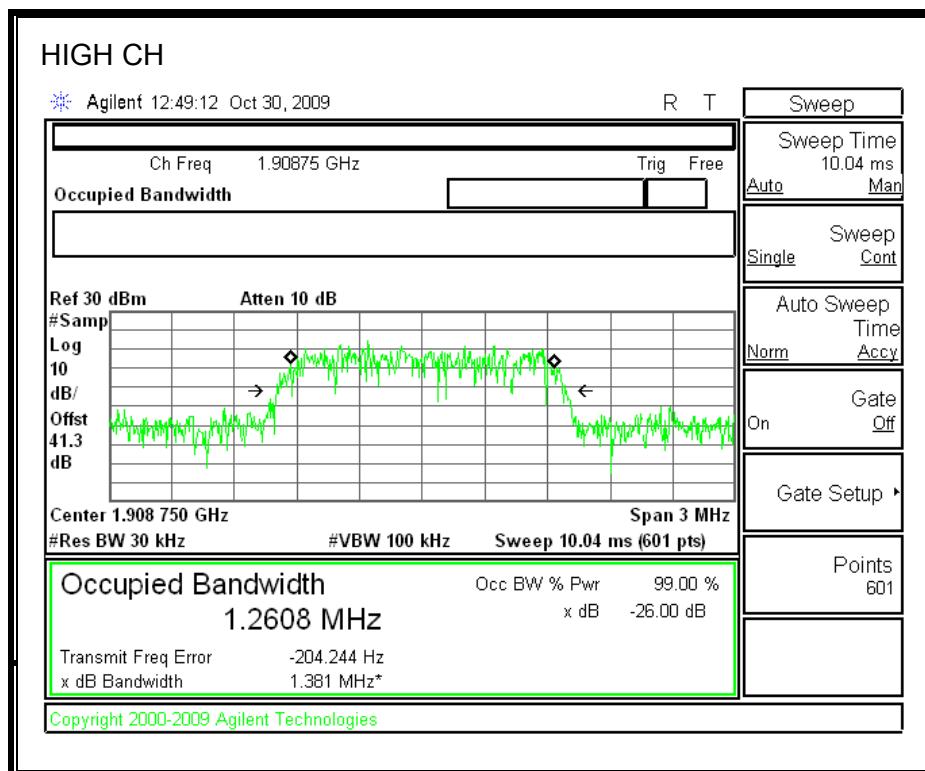
**CDMA2000 1xRTT Mode (PCS Band)**





**CDMA2000 1xEV-DO Revision A (Rev. A) Mode (PCS Band)**





## 8.2. BAND EDGE

### RULE PART(S)

FCC: §22.359, 24.238  
IC: RSS-132, 4.5; RSS-133, 6.5

### LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

### TEST PROCEDURE

The transmitter output was connected to a Agilent 8960 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- Set the spectrum analyzer span to include the block edge frequency (824, 848, 1850, 1910MHz)
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

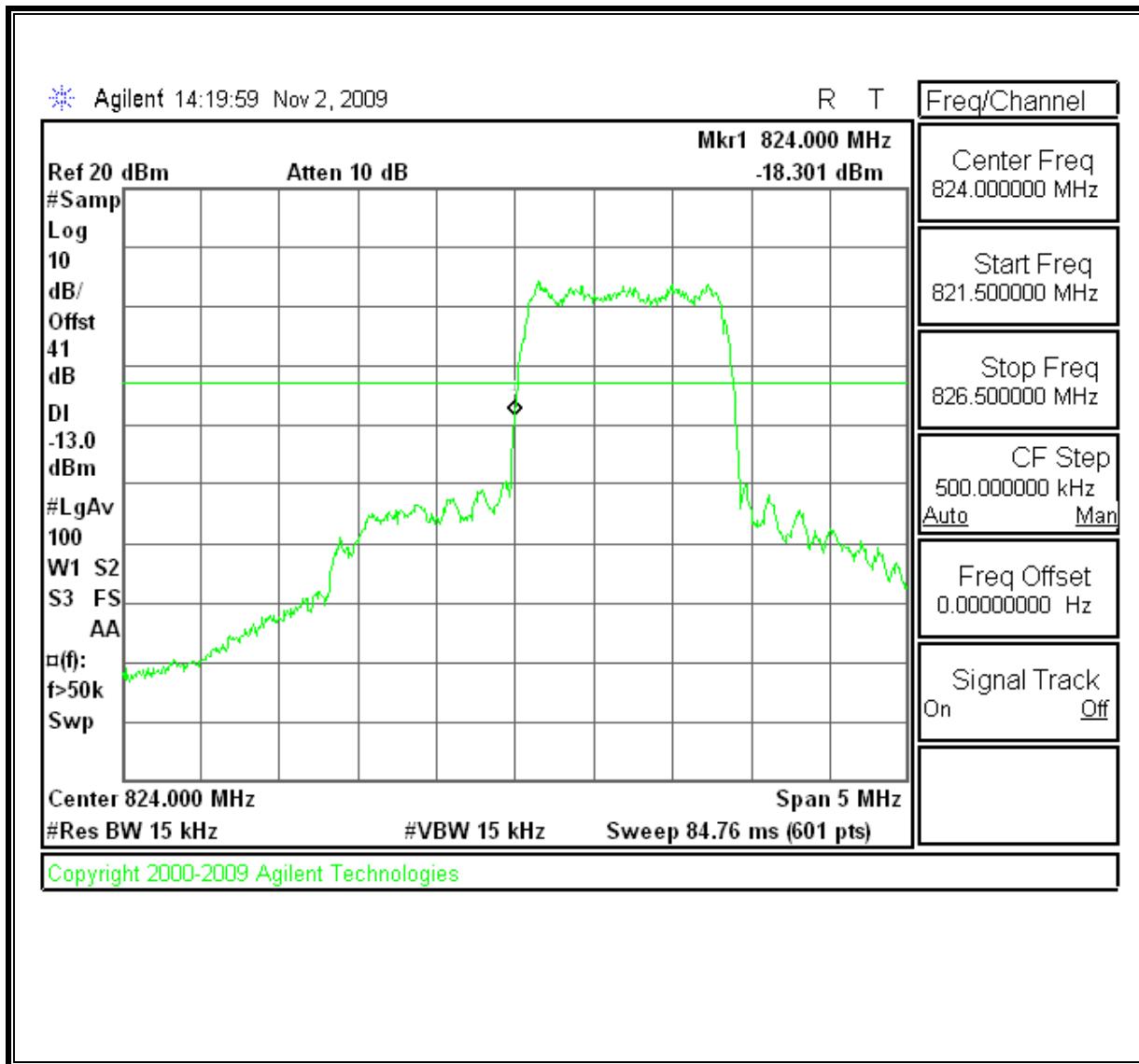
### MODES TESTED

- 1xRTT - RC1, SO55
- CDMA2000 1xEV-DO Revision A (Rev. A)

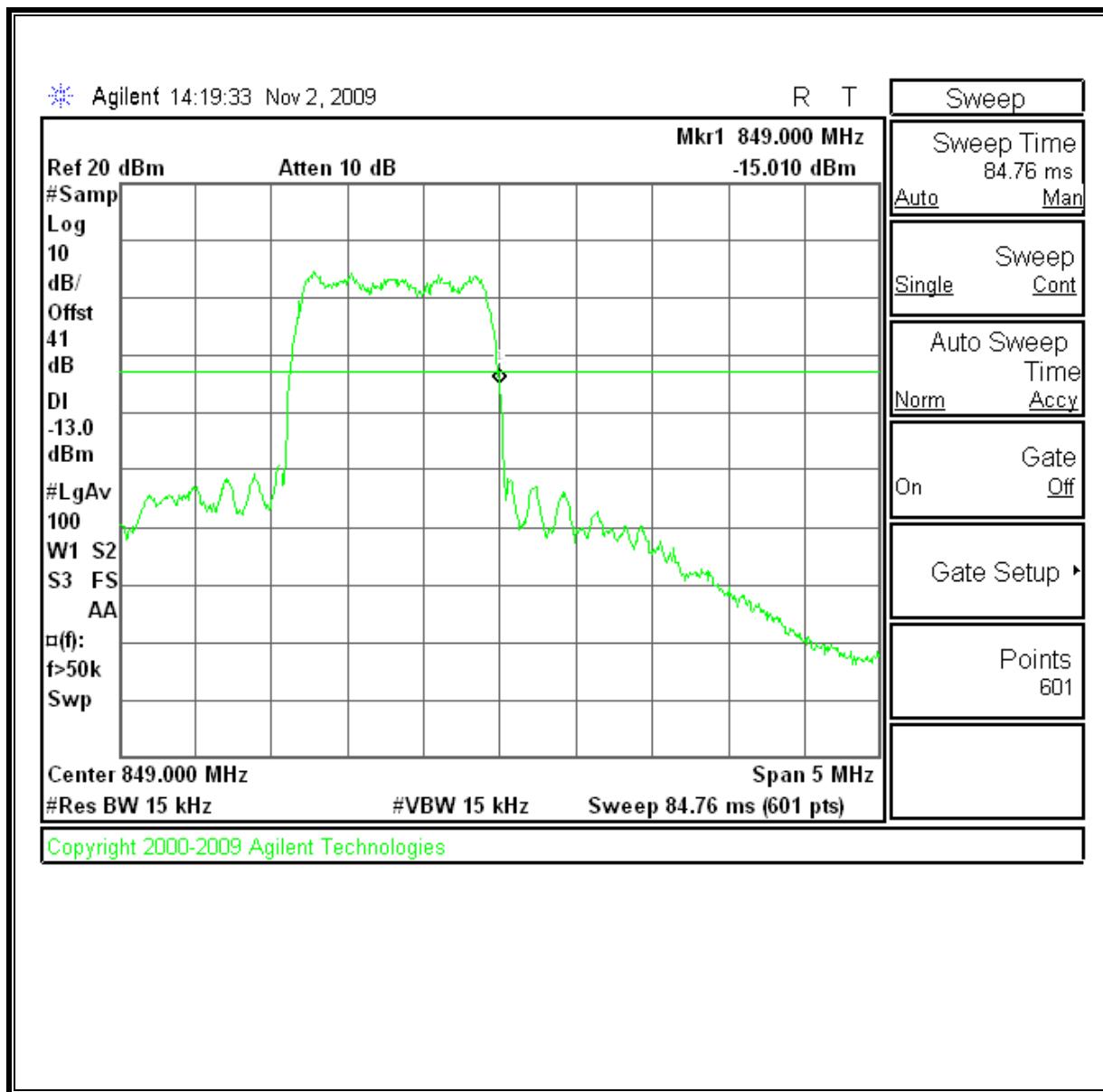
### RESULTS

**CDMA2000 1xRTT mode (Cellular Band)**

**Low Channel Band Edge**

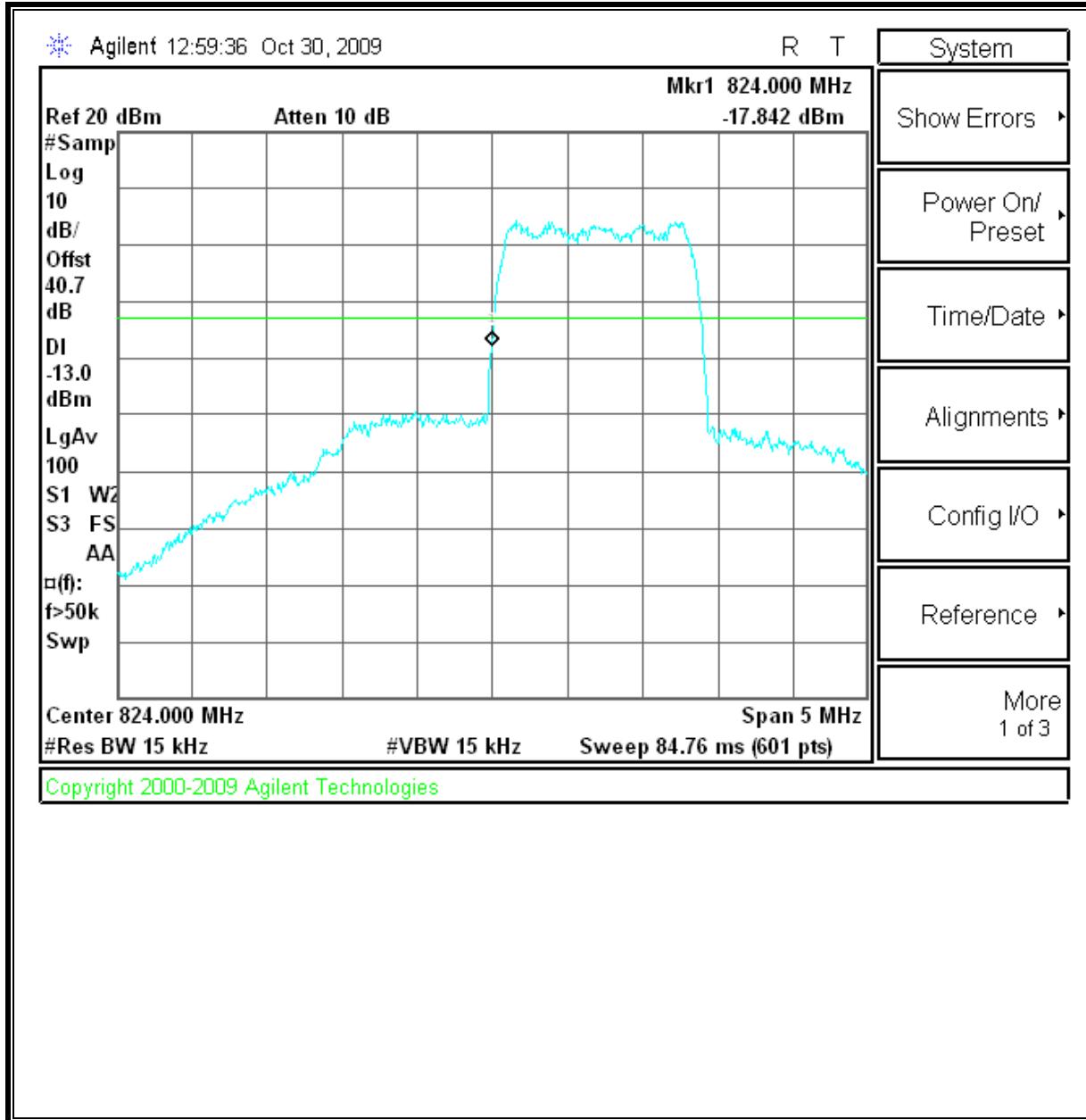


**High Channel Band Edge**

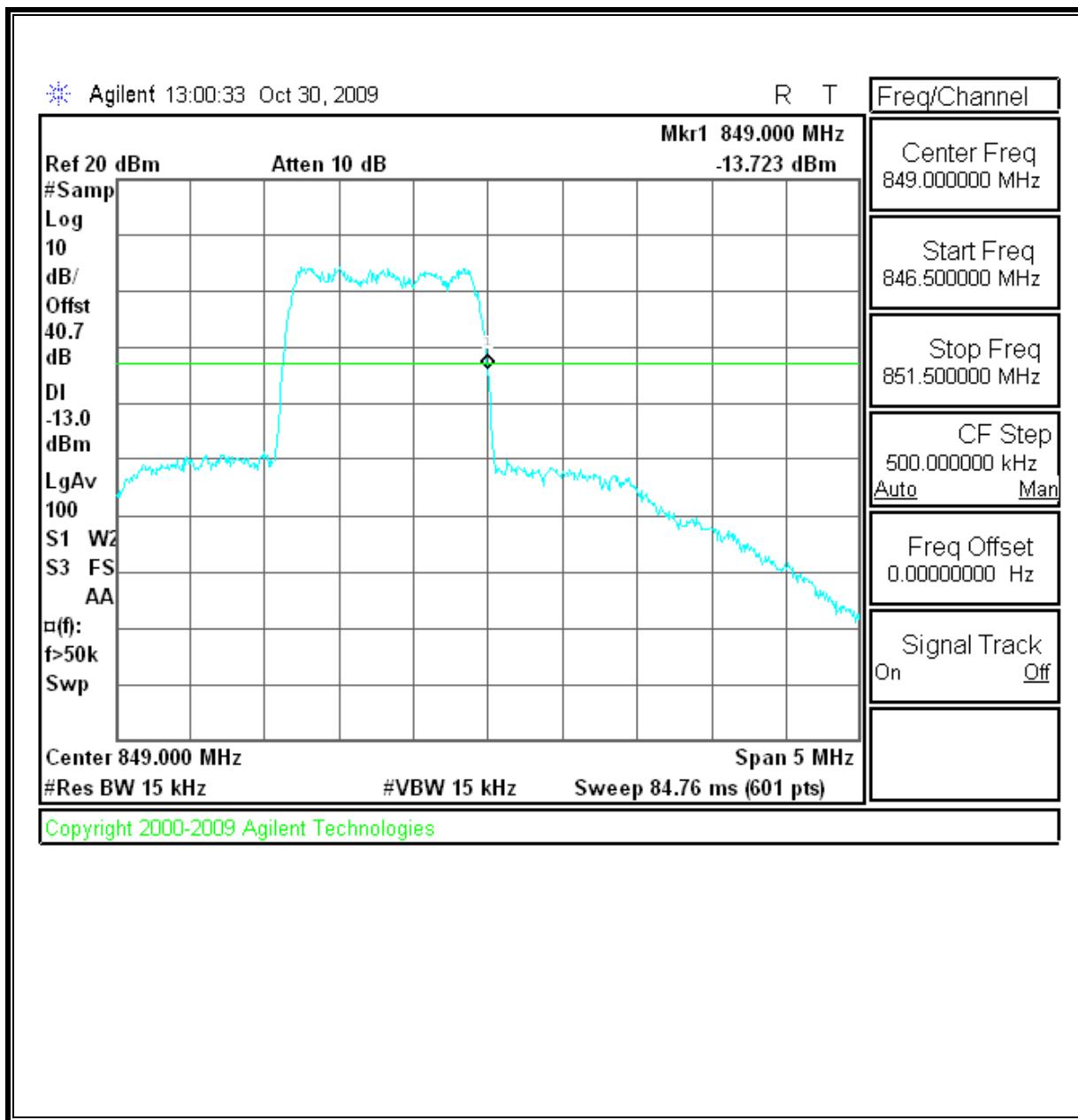


**CDMA2000 1xEV-DO Revision A (Rev. A) mode (Cellular Band)**

**Low Channel Band Edge**

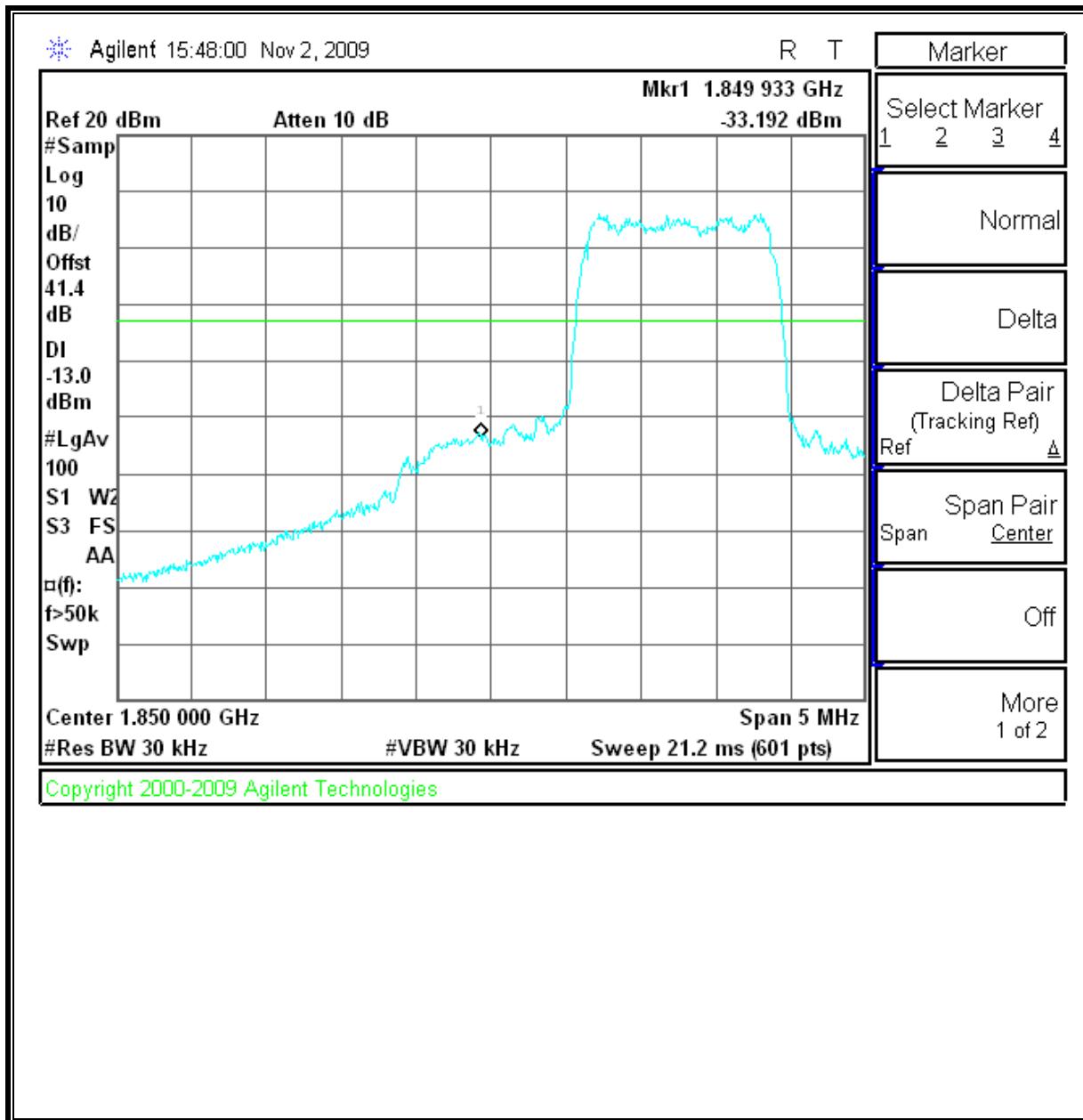


**High Channel Band Edge**

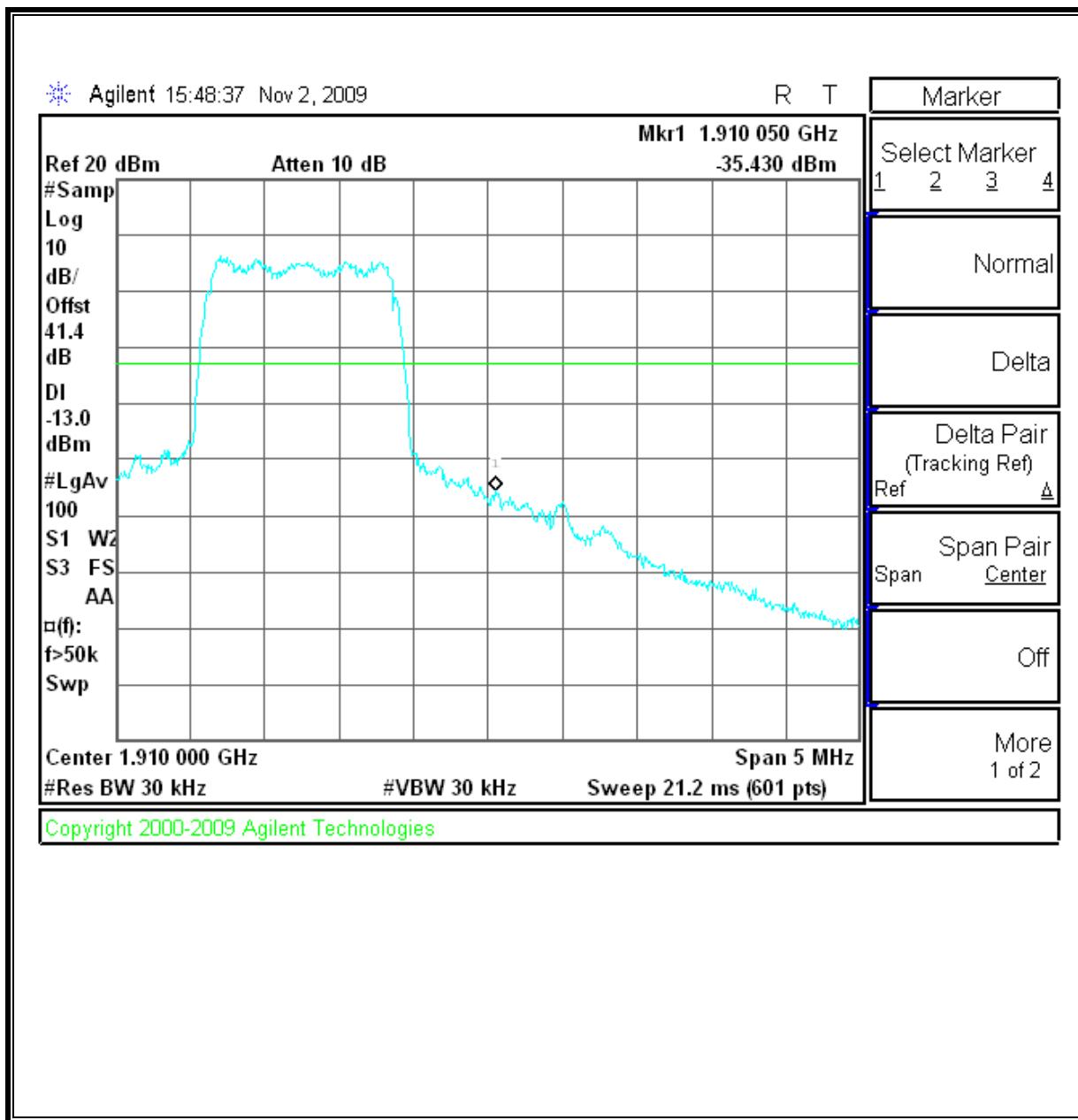


CDMA2000 1xRTT mode (PCS Band)

Low Channel Band Edge

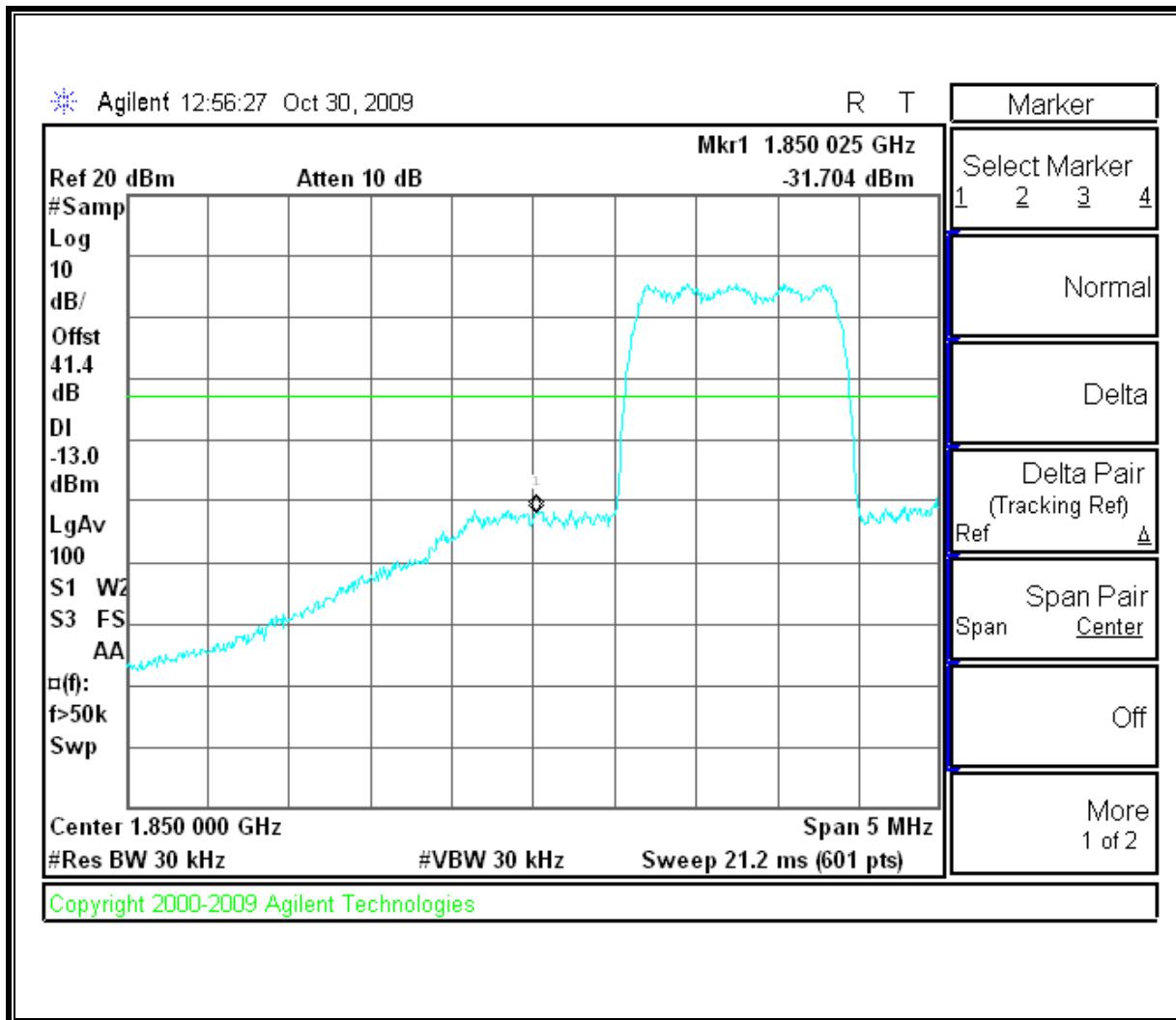


**High Channel Band Edge**

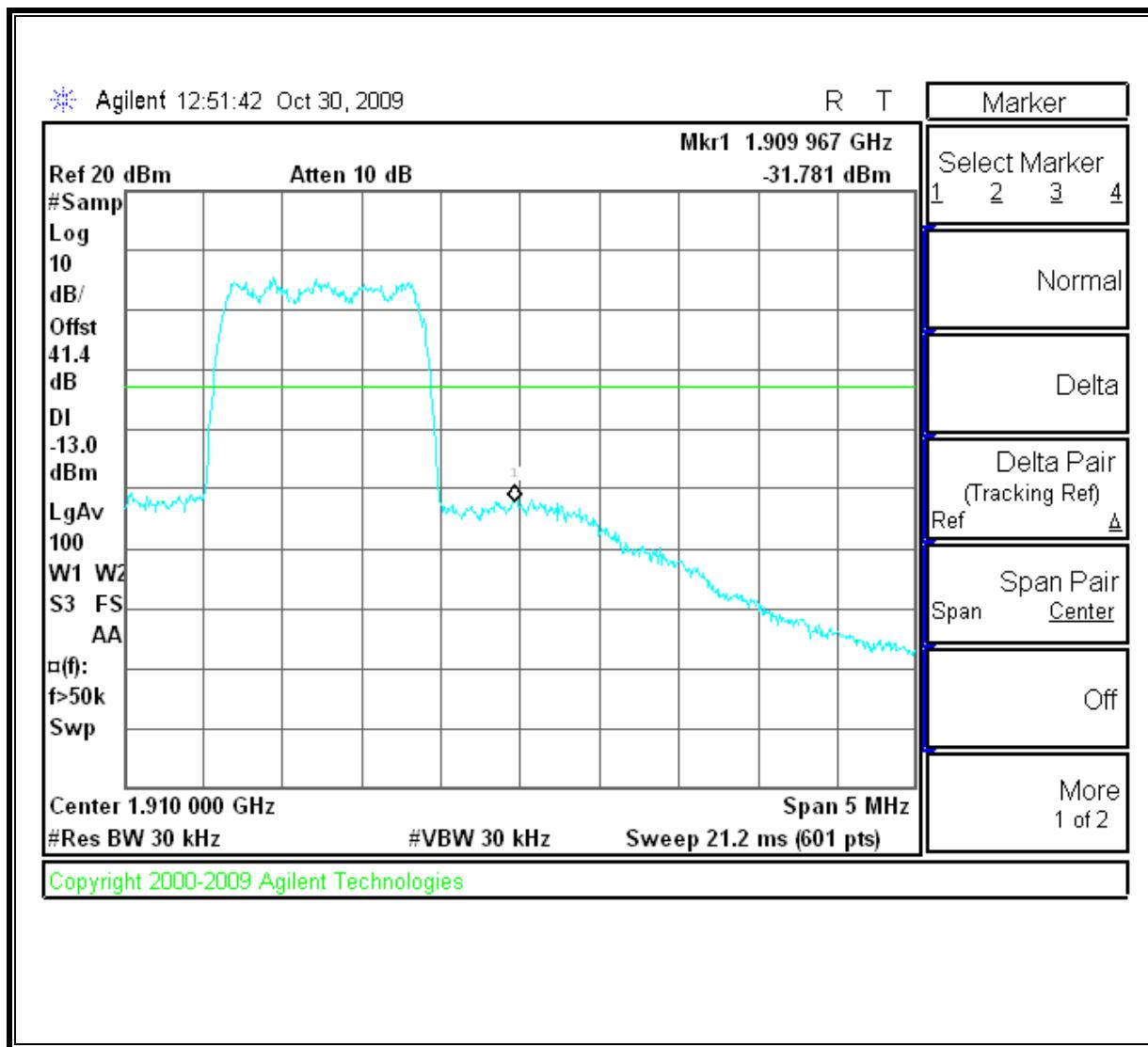


**CDMA2000 1xEV-DO Revision A (Rev. A) mode (PCS Band)**

**Low Channel Band Edge**



**High Channel Band Edge**



### 8.3. OUT OF BAND EMISSIONS

#### RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238  
IC: RSS-132, 4.5; RSS-133, 6.5

#### LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

#### TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

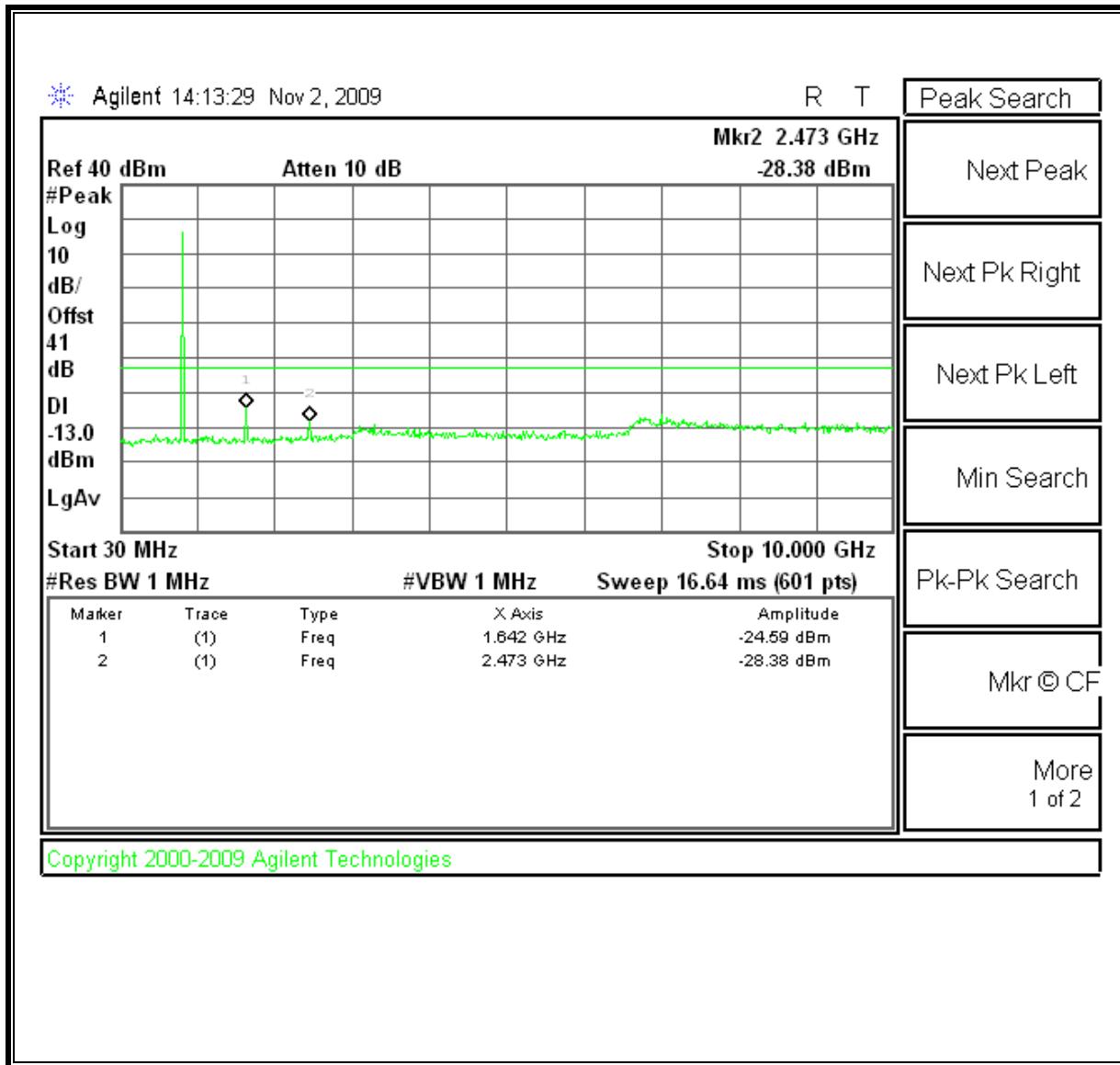
#### MODES TESTED

- 1xRTT – RC1, SO55
- CDMA2000 1xEV-DO Revision A (Rev. A)

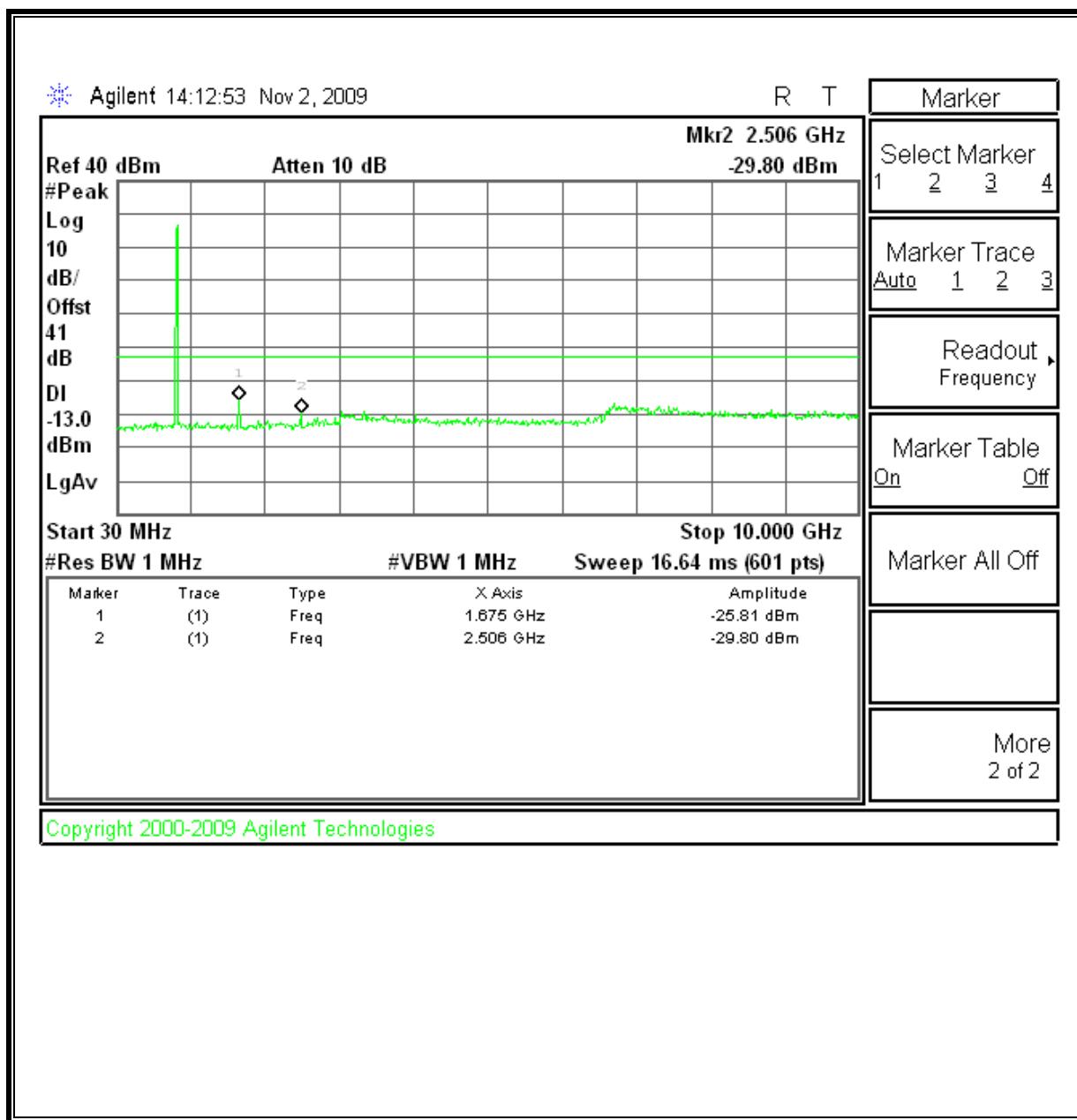
#### RESULTS

**1xRTT Mode (Cellular Band)**

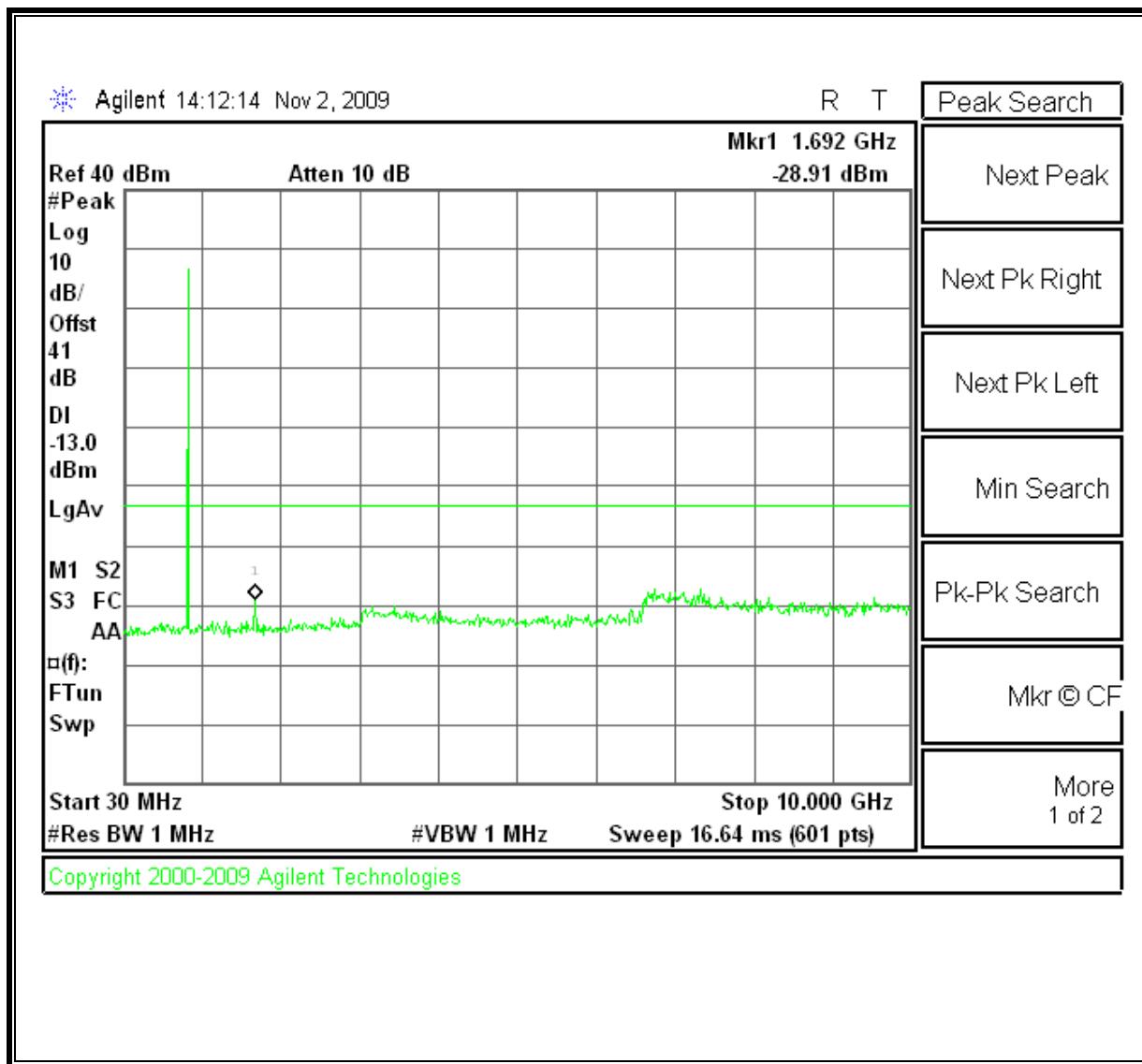
**LOWCHANNEL**



**MID CHANNEL**

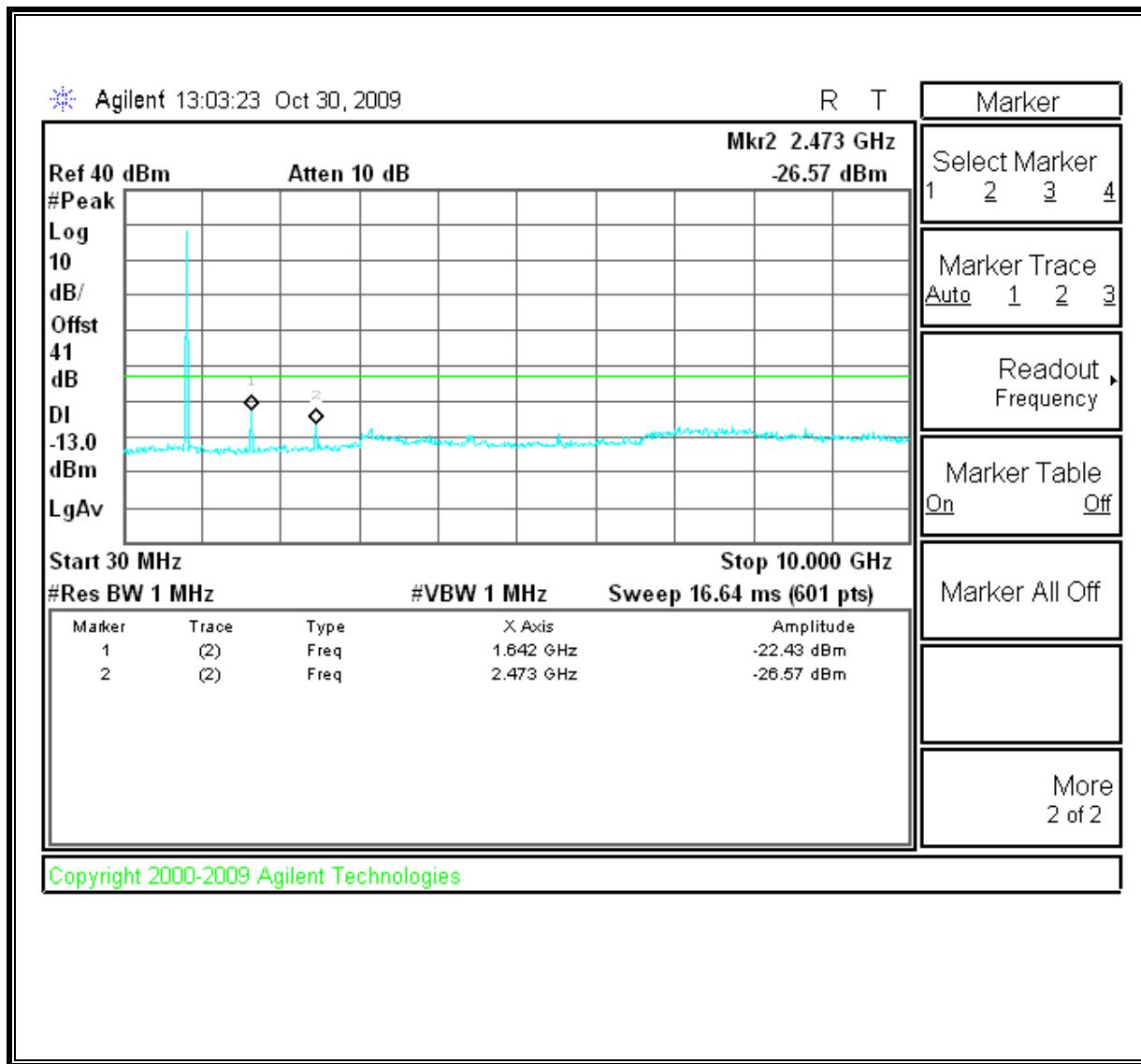


High Channel

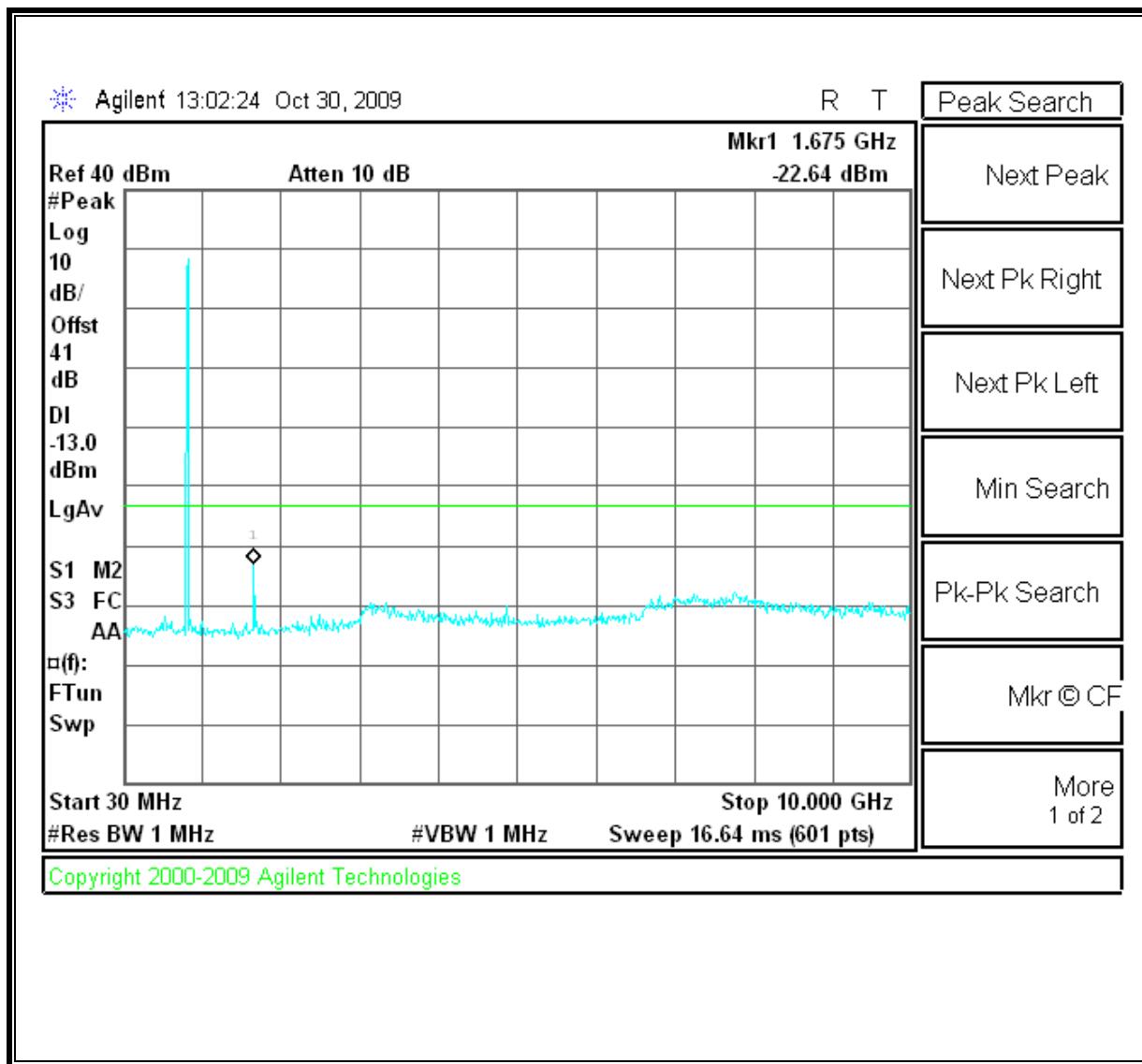


**CDMA2000 1xEV-DO Revision A (Rev. A) Mode (Cellular Band)**

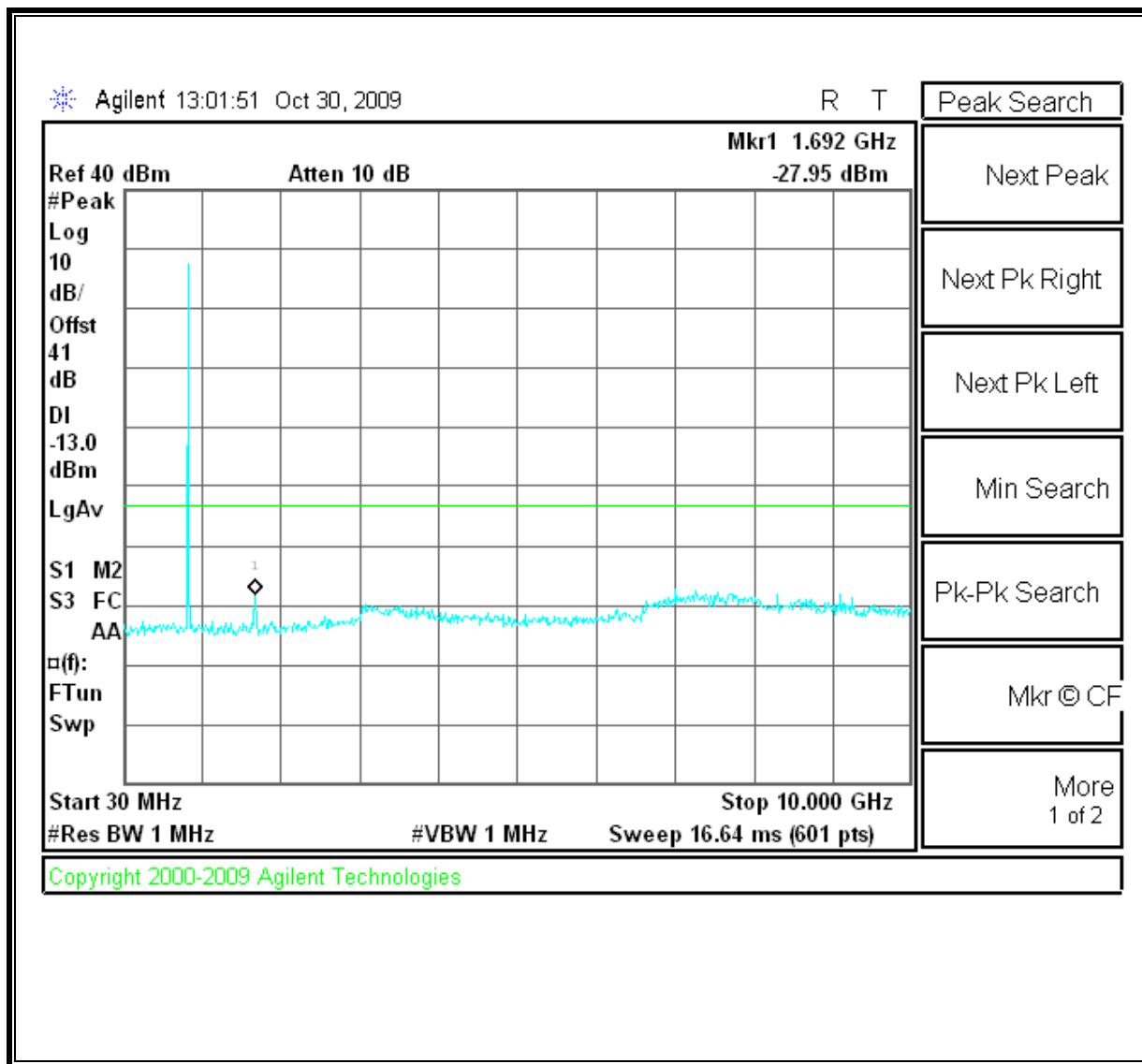
**LOW CHANNEL**



MID CHANNEL

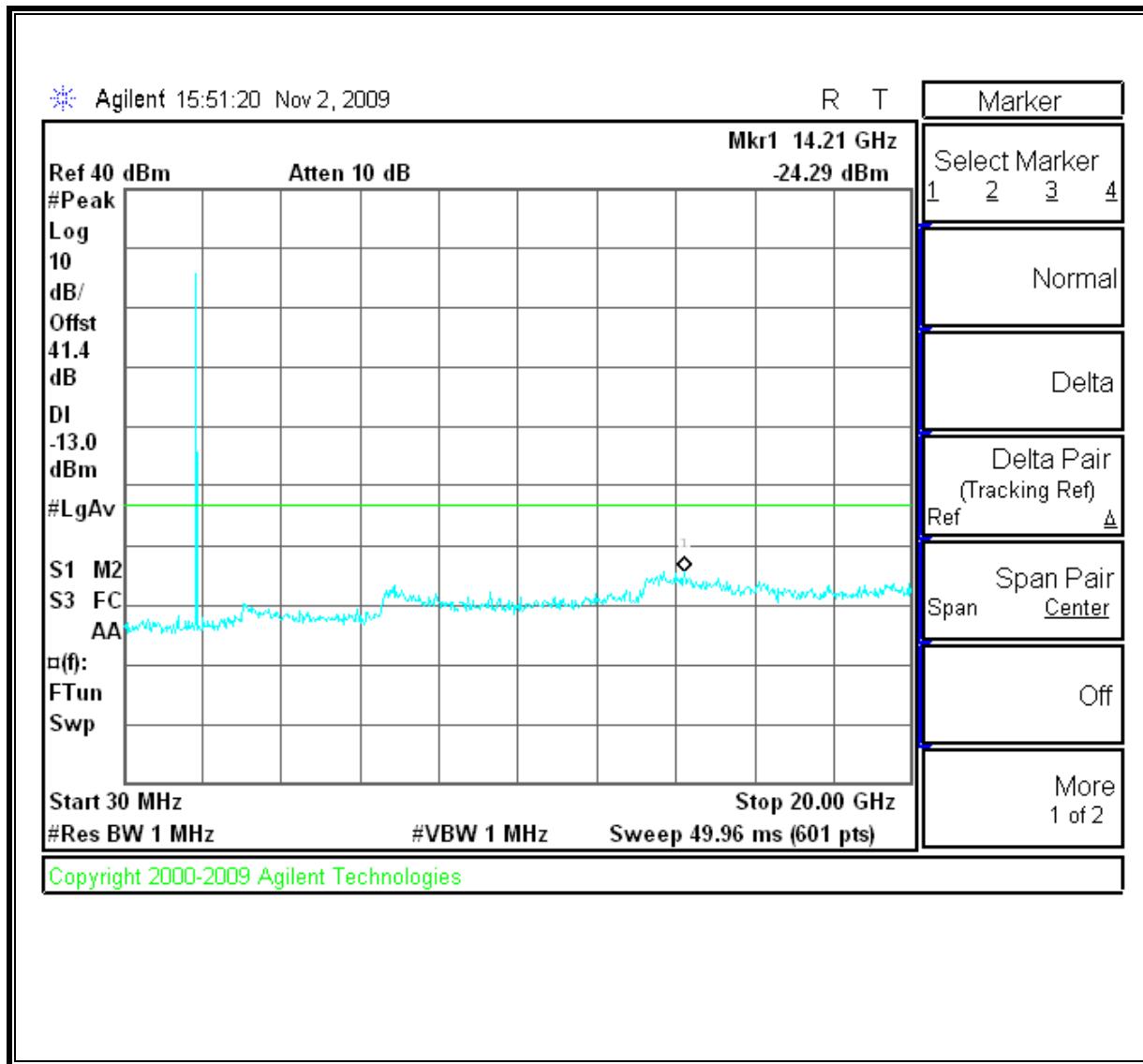


**HIGH CHANNEL**

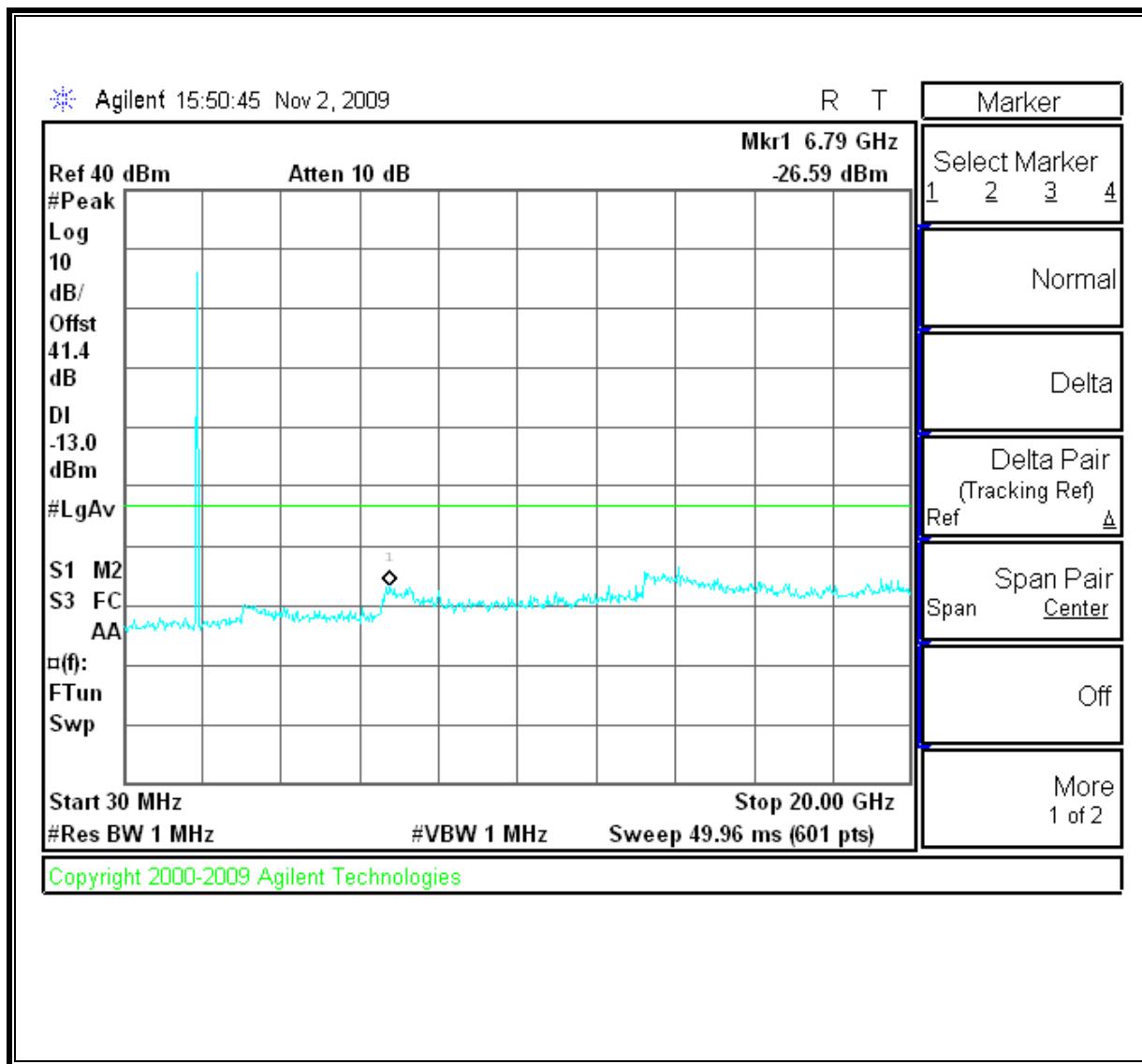


**1xRTT Mode (PCS Band)**

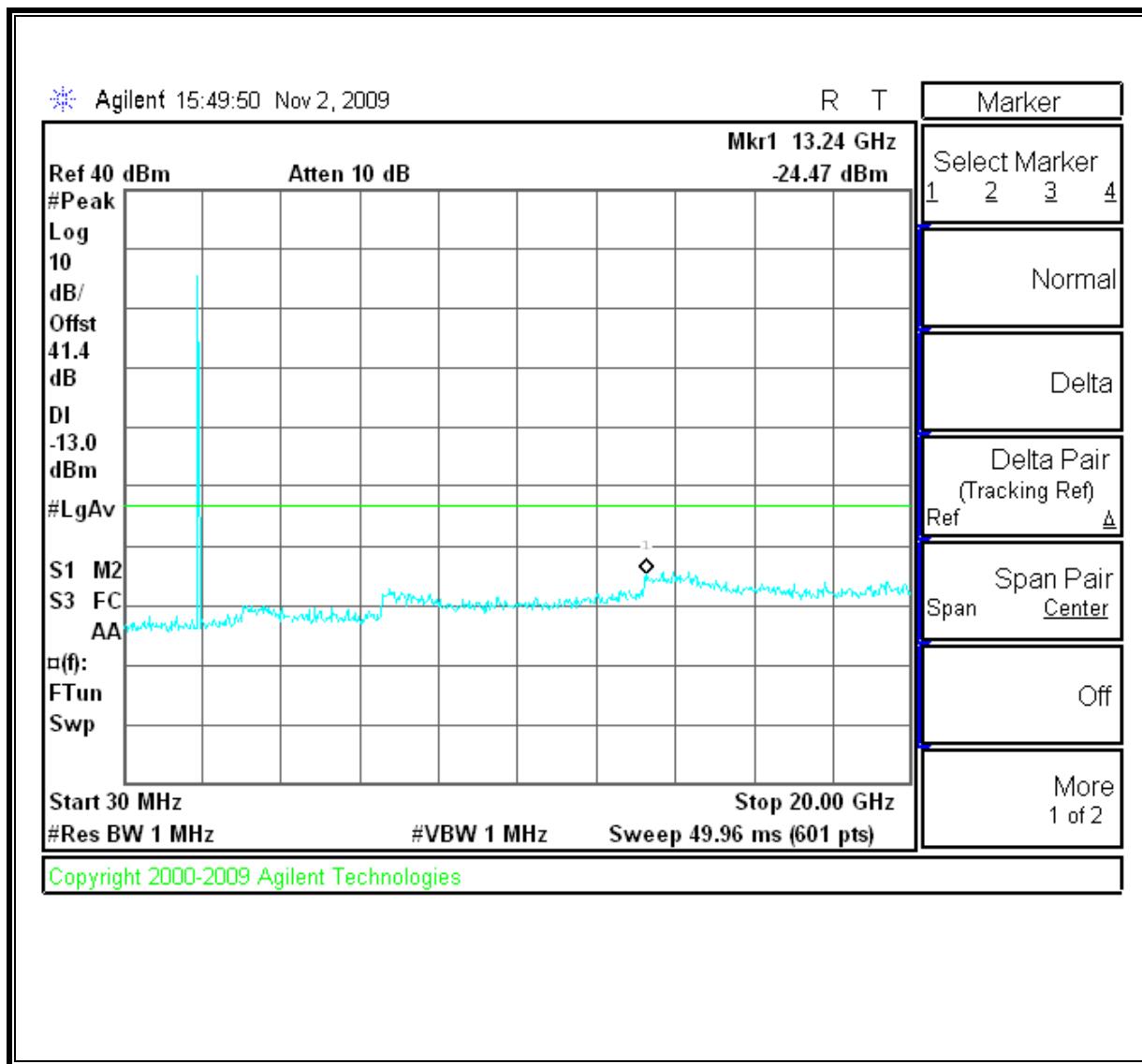
**LOW CHANNEL**



**MID CHANNEL**

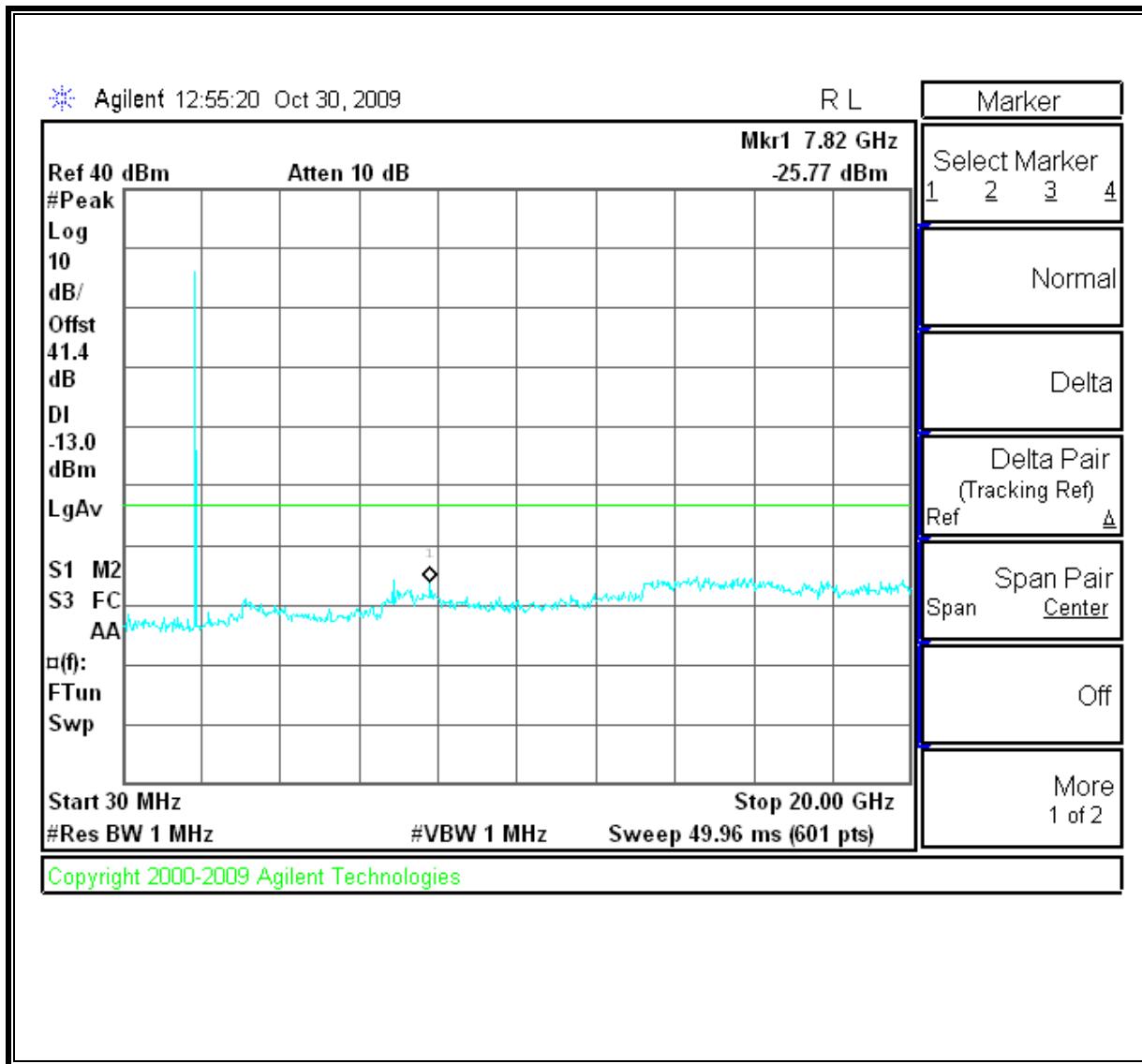


**HIGH CHANNEL**

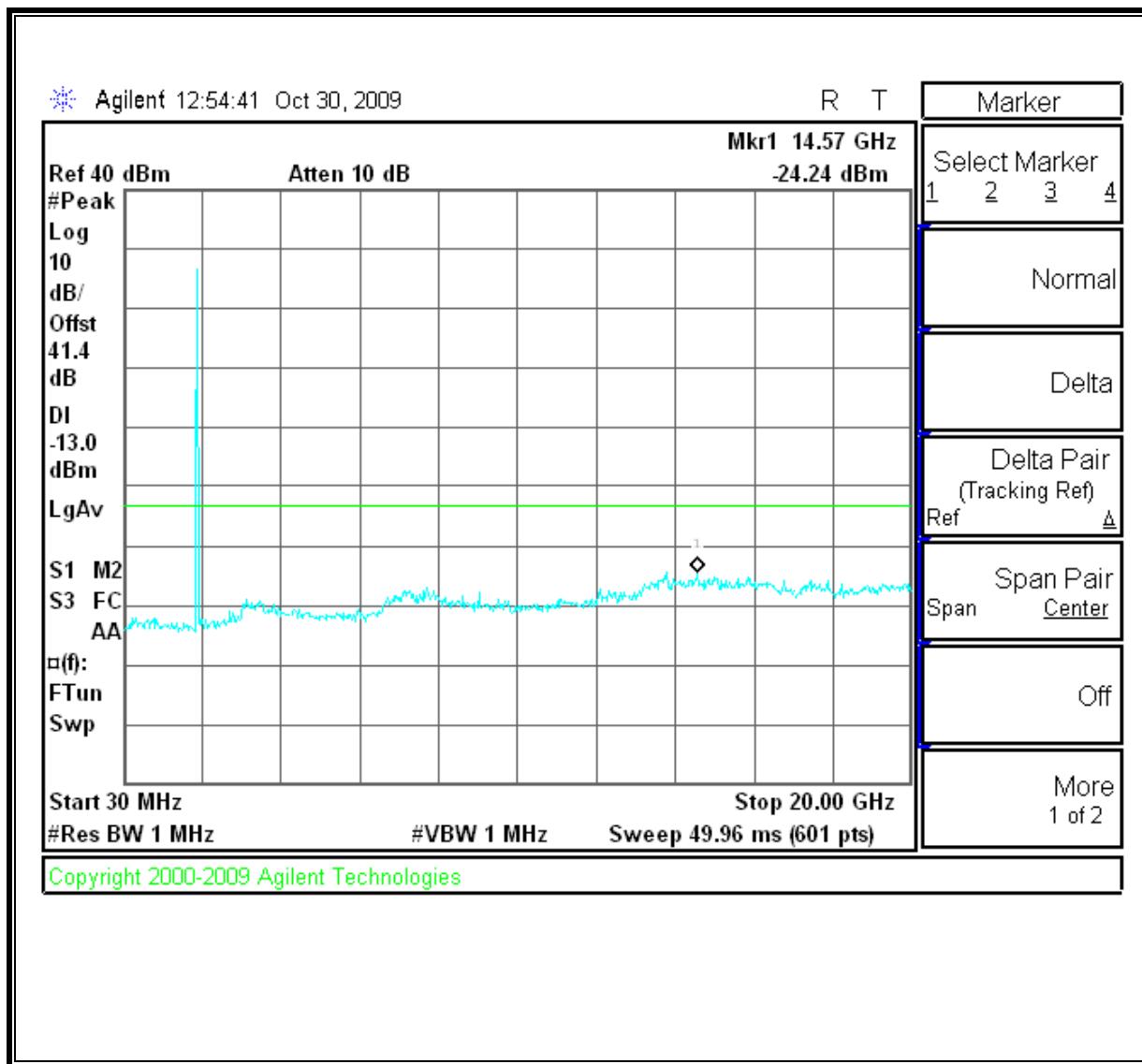


**CDMA2000 1xEV-DO Revision A (Rev. A) Mode (PCS Band)**

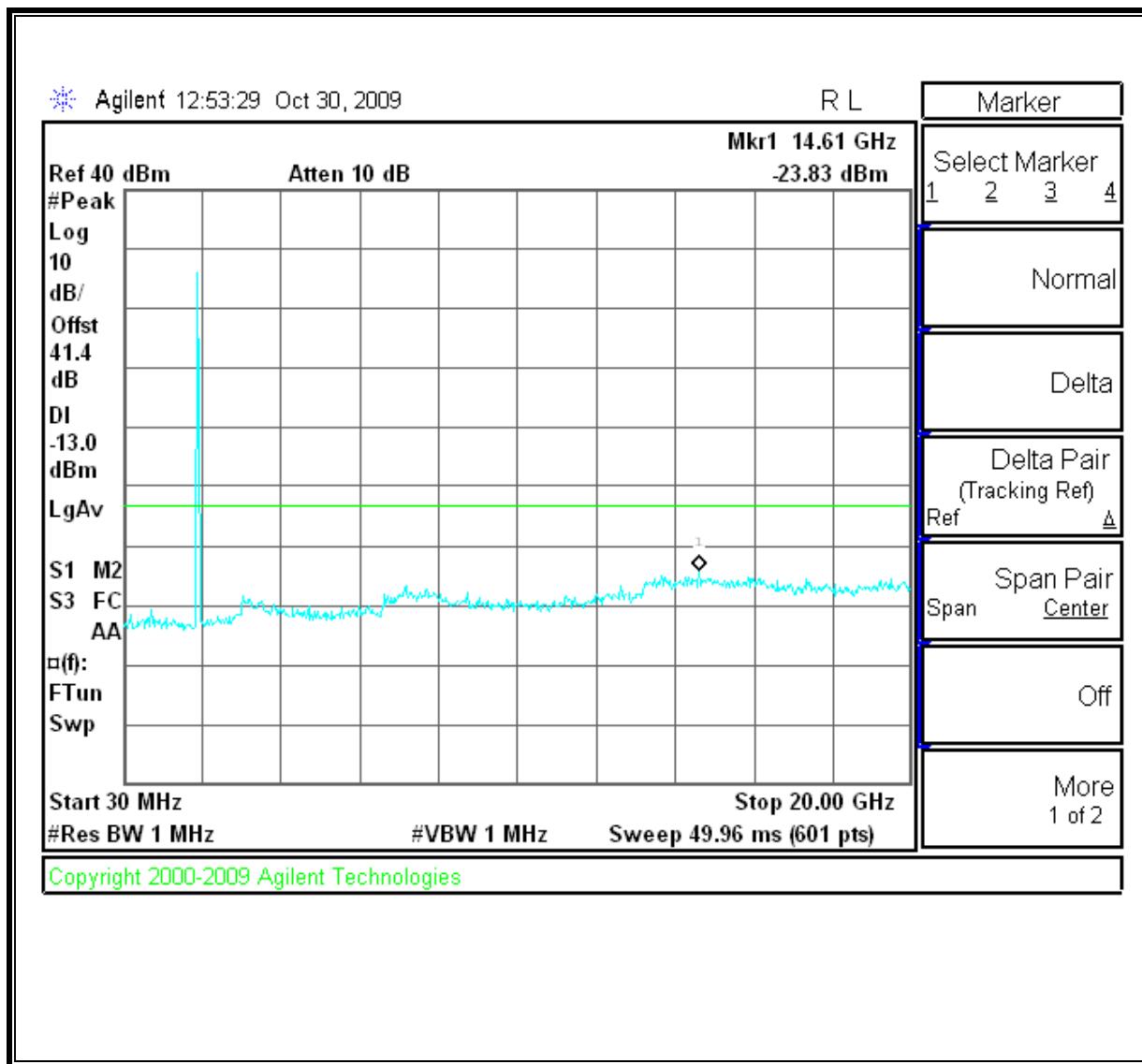
**LOW CHANNEL**



MID CHANNEL



**HIGH CHANNEL**



## 8.4. FREQUENCY STABILITY

### RULE PART(S)

FCC: §2.1055, §22.355, §24.235  
IC: RSS-132, 4.3; RSS-133, 6.3

### LIMITS

- §22.355 & RSS-132 4.3 - The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.
- RSS-133 6.3 - The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.
- §24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### TEST PROCEDURE

Use Agilent 8960 with Frequency Error measurement capability.

- Temp. =  $-20^{\circ}$  to  $+50^{\circ}\text{C}$
- Voltage = 3.7 Vdc (85% - 115%)

#### **Frequency Stability vs Temperature:**

The EUT is place inside a temperature chamber. The temperature is set to  $20^{\circ}\text{C}$  and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until  $+50^{\circ}\text{C}$  is reached.

#### **Frequency Stability vs Voltage:**

The peak frequency error is recorded (worst-case).

### MODES TESTED

- CDMA2000 1xEV-DO Revision A (Rev. A)

### RESULTS

See the following pages.

**CELL, CDMA2000 1xEV-DO Revision A (Rev. A) – MID CHANNEL**

<b>Reference Frequency: Cellular Mid Channel 835.519972MHz @ 20°C</b> <b>Limit: to stay +- 2.5 ppm = 2091.300 Hz</b>				
<b>DC Power Supply (Vdc)</b>	<b>Environment Temperature (°C)</b>	<b>Frequency Deviation Measured with Time Elapse</b>		
		<b>(MHz)</b>	<b>Delta (ppm)</b>	<b>Limit (ppm)</b>
3.70	50	836.519945	0.032	2.5
3.70	40	836.520007	-0.042	2.5
3.70	30	836.519997	-0.030	2.5
<b>3.70</b>	<b>20</b>	<b>836.519972</b>	<b>0</b>	<b>2.5</b>
3.70	10	836.519942	0.036	2.5
3.70	0	836.519927	0.054	2.5
3.70	-10	836.519900	0.086	2.5
3.70	-20	836.519991	-0.023	2.5
3.70	-30	836.519946	0.031	2.5

<b>Reference Frequency: Cellular Mid Channel 835.519972MHz @ 20°C</b> <b>Limit: to stay +- 2.5 ppm = 2091.300 Hz</b>				
<b>DC Power Supply (Vdc)</b>	<b>Environment Temperature (°C)</b>	<b>Frequency Deviation Measured with Time Elapse</b>		
		<b>(MHz)</b>	<b>Delta (ppm)</b>	<b>Limit (ppm)</b>
100%	20	836.519972	0	2.5
85%	20	836.519985	-0.016	2.5
115%	20	836.519960	0.014	2.5
2.7V (end voltage)	20	836.519946	0.031	2.5

**PCS, CDMA2000 1xEV-DO Revision A (Rev. A) – MID CHANNEL**

Reference Frequency: PCS Mid Channel 1879.999983MHz @ 20°C Limit: within the authorized block or +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.70	50	1879.999953	0.016	2.5
3.70	40	1880.000020	-0.020	2.5
3.70	30	1879.999970	0.007	2.5
<b>3.70</b>	<b>20</b>	<b>1879.999983</b>	<b>0</b>	<b>2.5</b>
3.70	10	1879.999955	0.015	2.5
3.70	0	1880.000014	-0.016	2.5
3.70	-10	1879.999926	0.030	2.5
3.70	-20	1880.000007	-0.013	2.5
3.70	-30	1879.999940	0.023	2.5

Reference Frequency: PCS Mid Channel 1879.999983MHz @ 20°C Limit: within the authorized block or +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
<b>100%</b>	<b>20</b>	<b>1879.999983</b>	<b>0</b>	<b>2.5</b>
0.85	20	1880.000010	-0.014	2.5
1.15	20	1879.999958	0.013	2.5
2.7V (End Point)	20	1879.999990	-0.004	2.5

## 9. RADIATED TEST RESULTS

### 9.1. RADIATED POWER (ERP & EIRP)

#### RULE PART(S)

FCC: §2.1046, §22.913, §24.232  
IC: RSS-132; 4.4, RSS-133, 6.4

#### LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) & RSS-133 § 6.4 - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

RSS-132 4.4, SRSP503 5.1.3 - The maximum ERP shall be 11.5 Watts for mobile stations.

#### TEST PROCEDURE

ANSI / TIA / EIA 603C  
RSS-132; RSS-133

#### MODES TESTED

- 1xRTT – RC1, SO55
- CDMA2000 1xEV-DO Revision A (Rev. A)

#### RESULTS for Cellular Band (ERP)

Mode	Channel	f (MHz)	ERP ( Standard Cover )		ERP ( Inductive Cover )	
			dBm	mW	dBm	mW
1xRTT (RC1, SO55)	1013	824.70	28.20	660.69	26.10	407.38
	384	836.52	27.70	588.84	26.80	478.63
	777	848.75	27.80	602.56	26.70	467.74
EVDO-REV A	1013	824.70	27.80	602.56	27.60	575.44
	384	836.52	27.70	588.84	28.00	630.96
	777	848.75	27.30	537.03	27.70	588.84

#### RESULTS for PCS Band (EIRP)

Mode	Channel	f (MHz)	EIRP ( Standard Cover)		EIRP ( Inductive Cover)	
			dBm	mW	dBm	mW
1xRTT (RC1, SO55)	25	1851.25	26.50	446.68	27.70	588.84
	600	1880.00	28.80	758.58	28.00	630.96
	1175	1908.75	28.60	724.44	27.70	588.84
EVDO-REV A	25	1851.25	28.10	645.65	28.40	691.83
	600	1880.00	29.10	812.83	29.10	812.83
	1175	1908.75	28.70	741.31	28.60	724.44

### EUT WITH STANDARD COVER

#### ERP for 1xRTT Mode (Cellular Band)

##### High Frequency Substitution Measurement Compliance Certification Services Chamber B

Company: Palm  
Project #: 09U12852  
Date: 10/24/2009  
Test Engineer: Chin Pang  
Configuration: EUT only  
Mode: CDMA2000, Cell  
Worst Case: Y position

##### Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT)  
Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.70	-4.4	V	32.6	28.2	38.5	-10.2	
824.70	-14.5	H	30.4	15.9	38.5	-22.6	
<b>Mid Ch</b>							
836.52	-5.0	V	32.7	27.7	38.5	-10.8	
836.52	-15.3	H	30.7	15.4	38.5	-23.0	
<b>High Ch</b>							
848.31	-4.2	V	32.0	27.8	38.5	-10.7	
848.31	-15.6	H	30.8	15.2	38.5	-23.3	

Rev. 1.24.7

#### ERP for CDMA2000 1xEV-DO Revision A (Rev. A) Mode (Cellular Band)

##### High Frequency Substitution Measurement Compliance Certification Services Chamber B

Company: Palm  
Project #: 09U12852  
Date: 10/29/2009  
Test Engineer: Chin Pang  
Configuration: EUT only  
Mode: EVDO-Rev A, Cell  
Worst Case: Y position

##### Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT)  
Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.70	-4.8	V	32.6	27.8	38.5	-10.7	
824.70	-15.8	H	30.4	14.6	38.5	-23.9	
<b>Mid Ch</b>							
836.52	-4.9	V	32.7	27.7	38.5	-10.7	
836.52	-15.4	H	30.7	15.3	38.5	-23.1	
<b>High Ch</b>							
848.31	-4.7	V	32.0	27.3	38.5	-11.1	
848.31	-15.3	H	30.8	15.5	38.5	-23.0	

Rev. 1.24.7

EIRP for 1xRTT Mode (PCS Band)

High Frequency Fundamental Measurement Compliance Certification Services Chamber B							
Company:Palm Project #:09U12852 Date: 10/24/2009 Test Engineer: Chin Pang Configuration:EUT only Mode:CDMA200 1xRTT Worst Case: X position							
<u>Test Equipment:</u> Receiving: Horn T59, and Chamber B SMA Cables Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse							
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.851	-22.0	V	40.2	18.2	33.0	-14.8	
1.851	-13.0	H	39.5	26.5	33.0	-6.5	
<b>Mid Ch</b>							
1.880	-22.0	V	40.3	18.3	33.0	-14.8	
1.880	-11.3	H	40.1	28.8	33.0	-4.2	
<b>High Ch</b>							
1.910	-21.0	V	40.2	19.2	33.0	-13.8	
1.910	-11.6	H	40.1	28.6	33.0	-4.5	
Rev. 1.24.7							

EIRP for CDMA2000 1xEV-DO Revision A (Rev. A) Mode (PCS Band)

High Frequency Fundamental Measurement Compliance Certification Services Chamber B							
Company:Palm Project #:09U12852 Date: 10/29/2009 Test Engineer: Chin Pang Configuration:EUT only Mode:EVDO-Rev A , PCS Worst Case: X position							
<u>Test Equipment:</u> Receiving: Horn T59, and Chamber B SMA Cables Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse							
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.851	-17.5	V	40.2	22.7	33.0	-10.3	
1.851	-11.4	H	39.5	28.1	33.0	-4.9	
<b>Mid Ch</b>							
1.880	-17.4	V	40.3	22.9	33.0	-10.2	
1.880	-11.0	H	40.1	29.1	33.0	-3.9	
<b>High Ch</b>							
1.910	-17.7	V	40.2	22.5	33.0	-10.5	
1.910	-11.4	H	40.1	28.7	33.0	-4.3	
Rev. 1.24.7							

### EUT WITH INDUCTIVE COVER

#### ERP for 1xRTT Mode (Cellular Band)

High Frequency Substitution Measurement Compliance Certification Services Chamber B							
Company: Palm Project #: 09U12852 Date: 10/24/2009 Test Engineer: Chin Pang Configuration: EUT/Inductive Charging Dock Mode: CDMA2000, Cell							
<u>Test Equipment:</u> Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.70	-11.0	V	32.6	21.6	38.5	-16.9	
824.70	-4.3	H	30.4	26.1	38.5	-12.4	
<b>Mid Ch</b>							
836.52	-11.6	V	32.7	21.1	38.5	-17.4	
836.52	-3.9	H	30.7	26.8	38.5	-11.6	
<b>High Ch</b>							
848.31	-11.2	V	32.0	20.8	38.5	-17.7	
848.31	-4.1	H	30.8	26.7	38.5	-11.7	

Rev. 1.24.7

#### ERP for CDMA2000 1xEV-DO Revision A (Rev. A) Mode (Cellular Band)

High Frequency Substitution Measurement Compliance Certification Services Chamber B							
Company: Palm Project #: 09U12852 Date: 10/29/2009 Test Engineer: Chin Pang Configuration: EUT/Inductive Charging Dock Mode: EVDO-REV A, Cell							
<u>Test Equipment:</u> Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.70	-9.3	V	32.6	23.3	38.5	-15.2	
824.70	-2.7	H	30.4	27.6	38.5	-10.8	
<b>Mid Ch</b>							
836.52	-8.3	V	32.7	24.4	38.5	-14.1	
836.52	-2.7	H	30.7	28.0	38.5	-10.4	
<b>High Ch</b>							
848.31	-9.8	V	32.0	22.2	38.5	-16.2	
848.31	-3.1	H	30.8	27.7	38.5	-10.7	

Rev. 1.24.7

EIRP for 1xRTT Mode (PCS Band)

High Frequency Fundamental Measurement  
Compliance Certification Services Chamber B

Company:Palm  
Project #:09U12852  
Date: 10/24/2009  
Test Engineer: Chin Pang  
Configuration:EUT/Inductive Charging Dock  
Mode:CDMA200 1xRTT

Test Equipment:

Receiving: Horn T59, and Camber B SMA Cables  
Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.851	-18.1	V	40.2	22.1	33.0	-10.9	
1.851	-11.8	H	39.5	27.7	33.0	-5.3	
<b>Mid Ch</b>							
1.880	-17.8	V	40.3	22.5	33.0	-10.6	
1.880	-12.2	H	40.1	28.0	33.0	-5.1	
<b>High Ch</b>							
1.910	-18.0	V	40.2	22.2	33.0	-10.8	
1.910	-12.4	H	40.1	27.7	33.0	-5.3	

Rev. 1.24.7

EIRP for CDMA2000 1xEV-DO Revision A (Rev. A) Mode (PCS Band)

High Frequency Fundamental Measurement  
Compliance Certification Services Chamber B

Company:Palm  
Project #:09U12852  
Date: 10/29/2009  
Test Engineer: Chin Pang  
Configuration:EUT/Inductive Charging Dock  
Mode:EVDO-Rev A

Test Equipment:

Receiving: Horn T59, and Camber B SMA Cables  
Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse

f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.851	-12.6	V	40.2	27.6	33.0	5.4	
1.851	-11.1	H	39.5	28.4	33.0	4.6	
<b>Mid Ch</b>							
1.880	-11.8	V	40.3	28.5	33.0	4.6	
1.880	-11.0	H	40.1	29.1	33.0	3.9	
<b>High Ch</b>							
1.909	-13.0	V	40.2	27.2	33.0	5.8	
1.909	-11.5	H	40.1	28.6	33.0	4.4	

Rev. 1.24.7

## 9.2. FIELD STRENGTH OF SPURIOUS RADIATION

### RULE PART(S)

FCC: §2.1053, §22.917, §24.238  
IC: RSS-132, 4.5; RSS-233, 6.5

### LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

### TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth ( i.e. 100 kHz or 1 percent of emission bandwidth, as specified). 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 emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth ( i.e. 1 MHz or 1 percent of emission bandwidth, as specified). 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 emissions are attenuated at least 26 dB below the transmitter power.

### MODES TESTED

- 1xRTT – RC1, SO55
- CDMA2000 1xEV-DO Revision A (Rev. A)

### RESULTS

**EUT WITH STANDARD COVER**

**1xRTT Mode (Cellular Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:Palm										
Project #09U12852										
Date:10/24/09										
Test Engineer:Chin Pang										
Configuration:EUT ( Standard Cover) only										
Mode:CDMA2000 1xRTT, Cell										
Chamber		Pre-amplifier			Filter			Limit		
5m Chamber B		T145 8449B			Filter 1			Part 22		
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch										
1.649	-40.0	H	3.0	37.2	35.5	1.0	-39.5	-13.0	-26.5	
2.474	59.2	H	3.0	39.8	35.4	1.0	-55.9	-13.0	-42.9	
1.649	-34.1	V	3.0	36.8	35.5	1.0	-34.0	-13.0	-21.0	
2.474	58.0	V	3.0	41.7	35.4	1.0	-52.9	-13.0	-39.9	
Mid Ch										
1.673	-39.5	H	3.0	37.5	35.5	1.0	-38.7	-13.0	-25.7	
2.510	-60.0	H	3.0	39.9	35.4	1.0	-56.7	-13.0	-43.7	
1.673	-33.5	V	3.0	37.1	35.5	1.0	-33.1	-13.0	-20.1	
2.510	59.4	V	3.0	41.8	35.4	1.0	-54.1	-13.0	-41.1	
High Ch										
1.697	-45.4	H	3.0	37.7	35.5	1.0	-44.4	-13.0	-31.4	
3.393	62.0	H	3.0	44.3	35.5	1.0	-54.4	-13.0	-41.4	
1.697	-42.3	V	3.0	37.4	35.5	1.0	-41.5	-13.0	-28.5	
2.545	62.1	V	3.0	42.0	35.4	1.0	-56.7	-13.0	-43.7	

Rev. 03.03.09  
Note: No other emissions were detected above the system noise floor

**CDMA2000 1xEV-DO Revision A (Rev. A) Mode (Cellular Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm										
Project #: 09U12852										
Date: 10/24/09										
Test Engineer: Chin Pang										
Configuration: EUT ( Standard Cover) only										
Mode: EVDO-Rev A, Cell										
Chamber		Pre-amplifier			Filter			Limit		
5m Chamber B		T145 8449B			Filter 1			Part 22		
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>										
1.649	-32.0	H	3.0	37.2	35.5	1.0	-31.5	-13.0	-18.5	
2.474	-60.3	H	3.0	39.8	35.4	1.0	-57.0	-13.0	-44.0	
1.649	-30.0	V	3.0	36.8	35.5	1.0	-29.9	-13.0	-16.9	
2.474	-50.0	V	3.0	41.7	35.4	1.0	-44.9	-13.0	-31.9	
<b>Mid Ch</b>										
1.673	-35.2	H	3.0	37.5	35.5	1.0	-34.4	-13.0	-21.4	
2.510	-62.0	H	3.0	39.9	35.4	1.0	-58.7	-13.0	-45.7	
1.673	-27.5	V	3.0	37.1	35.5	1.0	-27.1	-13.0	-14.1	
2.510	-60.0	V	3.0	41.8	35.4	1.0	-54.7	-13.0	-41.7	
<b>High Ch</b>										
1.697	-36.1	H	3.0	37.7	35.5	1.0	-35.1	-13.0	-22.1	
3.393	-64.0	H	3.0	44.3	35.5	1.0	-56.4	-13.0	-43.4	
1.697	-33.0	V	3.0	37.4	35.5	1.0	-32.2	-13.0	-19.2	
2.545	-62.5	V	3.0	42.0	35.4	1.0	-57.1	-13.0	-44.1	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor										

**1xRTT Mode (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:Palm Project #:09U12852 Date:10/24/09 Test Engineer:Chin Pang Configuration:EUT( Standard Cover) only Mode:CDMA2000 1xRTT, PCS band										
Chamber			Pre-amplifier		Filter			Limit		
5m Chamber B			T145 8449B		Filter 1			Part 24		
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>										
7.405	-62.3	H	3.0	53.0	35.7	1.0	-44.0	-13.0	-31.0	
9.256	-63.4	H	3.0	55.1	35.6	1.0	-42.9	-13.0	-29.9	
7.405	-60.5	V	3.0	51.3	35.7	1.0	-43.9	-13.0	-30.9	
9.256	-63.1	V	3.0	53.6	35.6	1.0	-44.1	-13.0	-31.1	
<b>Mid Ch</b>										
7.520	-58.2	H	3.0	53.1	35.7	1.0	-39.8	-13.0	-26.8	
9.400	-65.4	H	3.0	55.2	35.6	1.0	-44.7	-13.0	-31.7	
7.520	-57.7	V	3.0	51.4	35.7	1.0	-41.0	-13.0	-28.0	
9.400	-64.6	V	3.0	53.7	35.6	1.0	-45.4	-13.0	-32.4	
<b>High Ch</b>										
7.635	-61.0	H	3.0	53.2	35.7	1.0	-42.5	-13.0	-29.5	
9.544	-66.0	H	3.0	55.4	35.6	1.0	-45.2	-13.0	-32.2	
7.635	-57.8	V	3.0	51.6	35.7	1.0	-40.9	-13.0	-27.9	
9.544	-64.2	V	3.0	53.9	35.6	1.0	-44.8	-13.0	-31.8	

Rev. 03.03.09  
Note: No other emissions were detected above the system noise floor.

**CDMA2000 1xEV-DO Revision A (Rev. A) Mode (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm										
Project #: 09U12852										
Date: 10/29/09										
Test Engineer: Chin Pang										
Configuration: EUT( Standard Cover) only										
Mode: EVDO-Rev A, PCS band										
Chamber		Pre-amplifier			Filter			Limit		
5m Chamber B		T145 8449B			Filter 1			Part 24		
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>										
7.405	-62.3	H	3.0	53.0	35.7	1.0	-44.0	-13.0	-31.0	
9.256	-63.4	H	3.0	55.1	35.6	1.0	-42.9	-13.0	-29.9	
7.405	-60.5	V	3.0	51.3	35.7	1.0	-43.9	-13.0	-30.9	
9.256	-63.1	V	3.0	53.6	35.6	1.0	-44.1	-13.0	-31.1	
<b>Mid Ch</b>										
7.520	-62.8	H	3.0	53.1	35.7	1.0	-44.4	-13.0	-31.4	
9.400	-65.1	H	3.0	55.2	35.6	1.0	-44.4	-13.0	-31.4	
7.520	-60.0	V	3.0	51.4	35.7	1.0	-43.3	-13.0	-30.3	
9.400	-66.0	V	3.0	53.7	35.6	1.0	-46.8	-13.0	-33.8	
<b>High Ch</b>										
7.635	-64.4	H	3.0	53.2	35.7	1.0	-45.9	-13.0	-32.9	
9.544	-65.0	H	3.0	55.4	35.6	1.0	-44.2	-13.0	-31.2	
7.635	-63.5	V	3.0	51.6	35.7	1.0	-46.6	-13.0	-33.6	
9.544	-64.0	V	3.0	53.9	35.6	1.0	-44.6	-13.0	-31.6	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

**EUT WITH INDUCTIVE COVER**

**1xRTT Mode (Cellular Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement											
Company:Palm Project #:09U12852 Date:10/24/09 Test Engineer:Chin Pang Configuration:EUT ( Inductive Cover) with Charging Dock Mode:CDMA2000 1xRTT, Cell											
Chamber			Pre-amplifier			Filter			Limit		
5m Chamber B			T145 8449B			Filter 1			Part 22		
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch											
1.649	-32.0	H	3.0	37.2	35.5	1.0	-31.5	-13.0	-18.5		
2.474	-57.0	H	3.0	39.8	35.4	1.0	-53.7	-13.0	-40.7		
1.649	-35.2	V	3.0	36.8	35.5	1.0	-35.1	-13.0	-22.1		
2.474	-60.3	V	3.0	41.7	35.4	1.0	-55.2	-13.0	-42.2		
Mid Ch											
1.673	-31.8	H	3.0	37.5	35.5	1.0	-31.0	-13.0	-18.0		
2.510	-56.5	H	3.0	39.9	35.4	1.0	-53.2	-13.0	-40.2		
1.673	-37.1	V	3.0	37.1	35.5	1.0	-36.7	-13.0	-23.7		
2.510	-60.8	V	3.0	41.8	35.4	1.0	-55.5	-13.0	-42.5		
High Ch											
1.697	-31.3	H	3.0	37.7	35.5	1.0	-30.3	-13.0	-17.3		
3.393	-60.0	H	3.0	44.3	35.5	1.0	-52.4	-13.0	-39.4		
1.697	-38.0	V	3.0	37.4	35.5	1.0	-37.2	-13.0	-24.2		
2.545	-62.5	V	3.0	42.0	35.4	1.0	-57.1	-13.0	-44.1		

Rev. 03.03.09  
Note: No other emissions were detected above the system noise floor

**CDMA2000 1xEV-DO Revision A (Rev. A) Mode (Cellular Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:Palm										
Project #:09U12852										
Date:10/30/09										
Test Engineer:Chin Pang										
Configuration:EUT ( Inductive Cover) with Charging Dock										
Mode:EVDO-Rev A, Cell										
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T145 8449B		Filter 1		Part 22				
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch										
1.649	-28.3	H	3.0	37.2	35.5	1.0	-27.8	-13.0	-14.8	
2.474	-57.0	H	3.0	39.8	35.4	1.0	-53.7	-13.0	-40.7	
1.649	-32.1	V	3.0	36.8	35.5	1.0	-32.0	-13.0	-19.0	
2.474	-52.7	V	3.0	41.7	35.4	1.0	-47.6	-13.0	-34.6	
Mid Ch										
1.673	-32.7	H	3.0	37.5	35.5	1.0	-31.9	-13.0	-18.9	
2.510	-60.5	H	3.0	39.9	35.4	1.0	-57.2	-13.0	-44.2	
1.673	-34.5	V	3.0	37.1	35.5	1.0	-34.1	-13.0	-21.1	
2.510	-61.4	V	3.0	41.8	35.4	1.0	-56.1	-13.0	-43.1	
High Ch										
1.697	-34.0	H	3.0	37.7	35.5	1.0	-33.0	-13.0	-20.0	
2.545	-57.0	H	3.0	40.1	35.4	1.0	-53.5	-13.0	-40.5	
1.697	-38.5	V	3.0	37.4	35.5	1.0	-37.7	-13.0	-24.7	
2.545	-64.2	V	3.0	42.0	35.4	1.0	-58.8	-13.0	-45.8	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor										

**1xRTT Mode (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:Palm Project #:09U12852 Date:10/24/09 Test Engineer:Chin Pang Configuration:EUT( Inductive Cover) with Charging Dock Mode:CDMA2000 1xRTT, PCS band										
Chamber			Pre-amplifier		Filter			Limit		
5m Chamber B			T145 8449B		Filter 1			Part 24		
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>										
7.405	-61.5	H	3.0	53.0	35.7	1.0	-43.2	-13.0	-30.2	
9.256	-64.0	H	3.0	55.1	35.6	1.0	-43.5	-13.0	-30.5	
7.405	-65.1	V	3.0	51.3	35.7	1.0	-48.5	-13.0	-35.5	
9.256	-65.3	V	3.0	53.6	35.6	1.0	-46.3	-13.0	-33.3	
<b>Mid Ch</b>										
7.520	-64.0	H	3.0	53.1	35.7	1.0	-45.6	-13.0	-32.6	
9.400	-65.2	H	3.0	55.2	35.6	1.0	-44.5	-13.0	-31.5	
7.520	-62.0	V	3.0	51.4	35.7	1.0	-45.3	-13.0	-32.3	
9.400	-66.0	V	3.0	53.7	35.6	1.0	-46.8	-13.0	-33.8	
<b>High Ch</b>										
7.635	-62.5	H	3.0	53.2	35.7	1.0	-44.0	-13.0	-31.0	
9.544	-65.0	H	3.0	55.4	35.6	1.0	-44.2	-13.0	-31.2	
7.635	-59.5	V	3.0	51.6	35.7	1.0	-42.6	-13.0	-29.6	
9.544	-63.0	V	3.0	53.9	35.6	1.0	-43.6	-13.0	-30.6	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

**CDMA2000 1xEV-DO Revision A (Rev. A) Mode (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:Palm										
Project #:09U12852										
Date:10/29/09										
Test Engineer:Chin Pang										
Configuration:EUT (Inductive Cover) with Charging Dock										
Mode:EVDO-Rev A, PCS band										
Chamber		Pre-amplifier			Filter			Limit		
5m Chamber B		T145 8449B			Filter 1			Part 24		
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>										
7.405	-63.8	H	3.0	53.0	35.7	1.0	-45.5	-13.0	-32.5	
9.256	-63.2	H	3.0	55.1	35.6	1.0	-42.7	-13.0	-29.7	
7.405	-66.0	V	3.0	51.3	35.7	1.0	-49.4	-13.0	-36.4	
9.256	-63.0	V	3.0	53.6	35.6	1.0	-44.0	-13.0	-31.0	
<b>Mid Ch</b>										
7.520	-65.0	H	3.0	53.1	35.7	1.0	-46.6	-13.0	-33.6	
9.400	-65.2	H	3.0	55.2	35.6	1.0	-44.5	-13.0	-31.5	
7.520	-63.5	V	3.0	51.4	35.7	1.0	-46.8	-13.0	-33.8	
9.400	-65.3	V	3.0	53.7	35.6	1.0	-46.1	-13.0	-33.1	
<b>High Ch</b>										
7.635	-63.2	H	3.0	53.2	35.7	1.0	-44.7	-13.0	-31.7	
9.544	-62.8	H	3.0	55.4	35.6	1.0	-42.0	-13.0	-29.0	
7.635	-61.5	V	3.0	51.6	35.7	1.0	-44.6	-13.0	-31.6	
9.544	-64.3	V	3.0	53.9	35.6	1.0	-44.9	-13.0	-31.9	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

### 9.3. RECEIVER SPURIOUS EMISSIONS

#### RULE PART(S)

FCC: N/A  
IC: RSS-132, 4.6; RSS-133, 6.6, RSS-Gen

#### LIMIT

RSS-Gen 6 (a) - If a radiated measurement is made, all spurious emissions shall comply with the limits of Table 1.

Table 1 - Spurious Emission Limits for Receivers:

Spurious Frequency (MHz)	Field Strength(microvolt/m at 3 meters)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

#### TEST PROCEDURE

RSS-Gen 4.10 - The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is the higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is the higher, without exceeding 40 GHz.

#### RESULTS

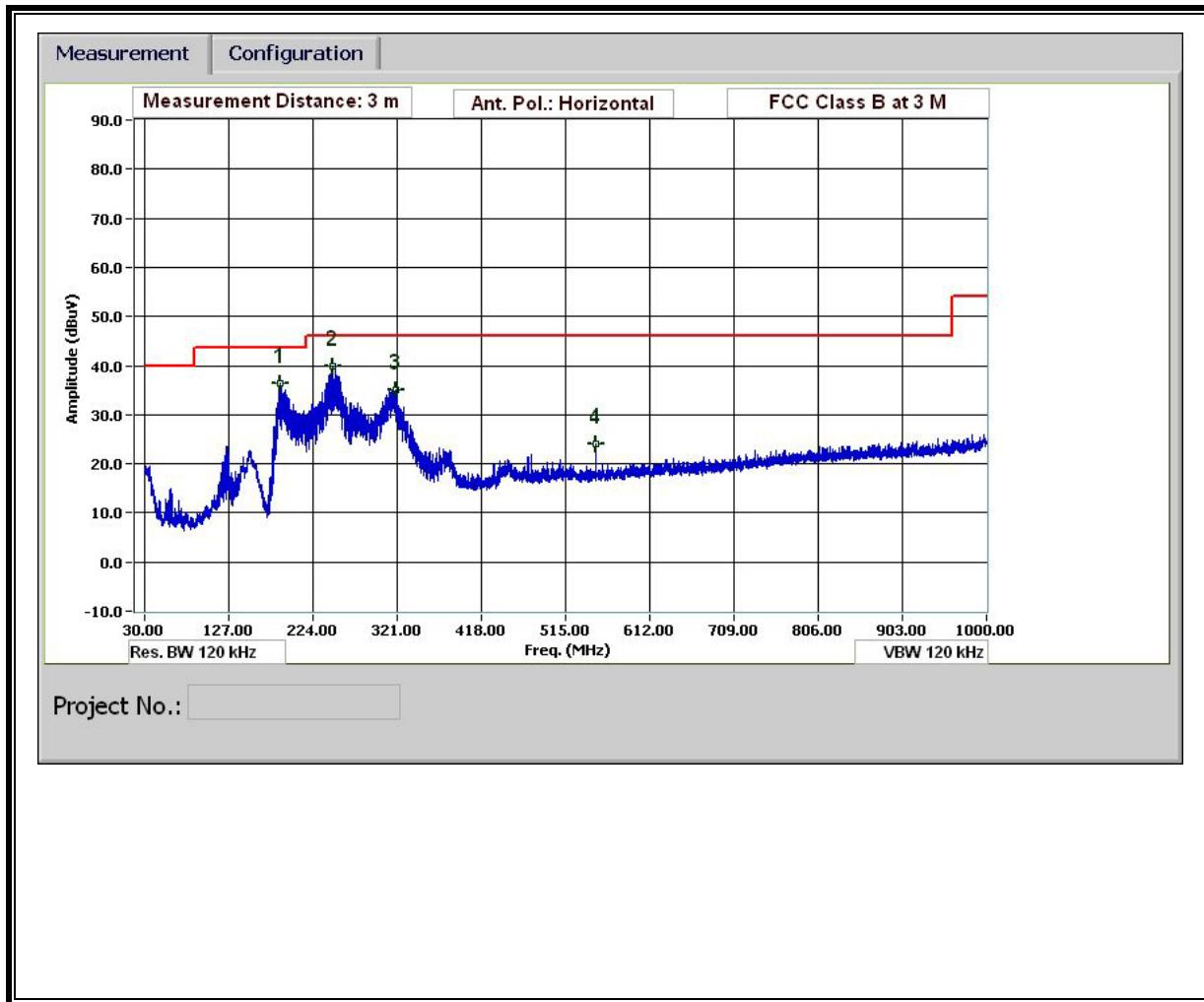
See the following pages.

**EUT WITH STANDARD COVER**

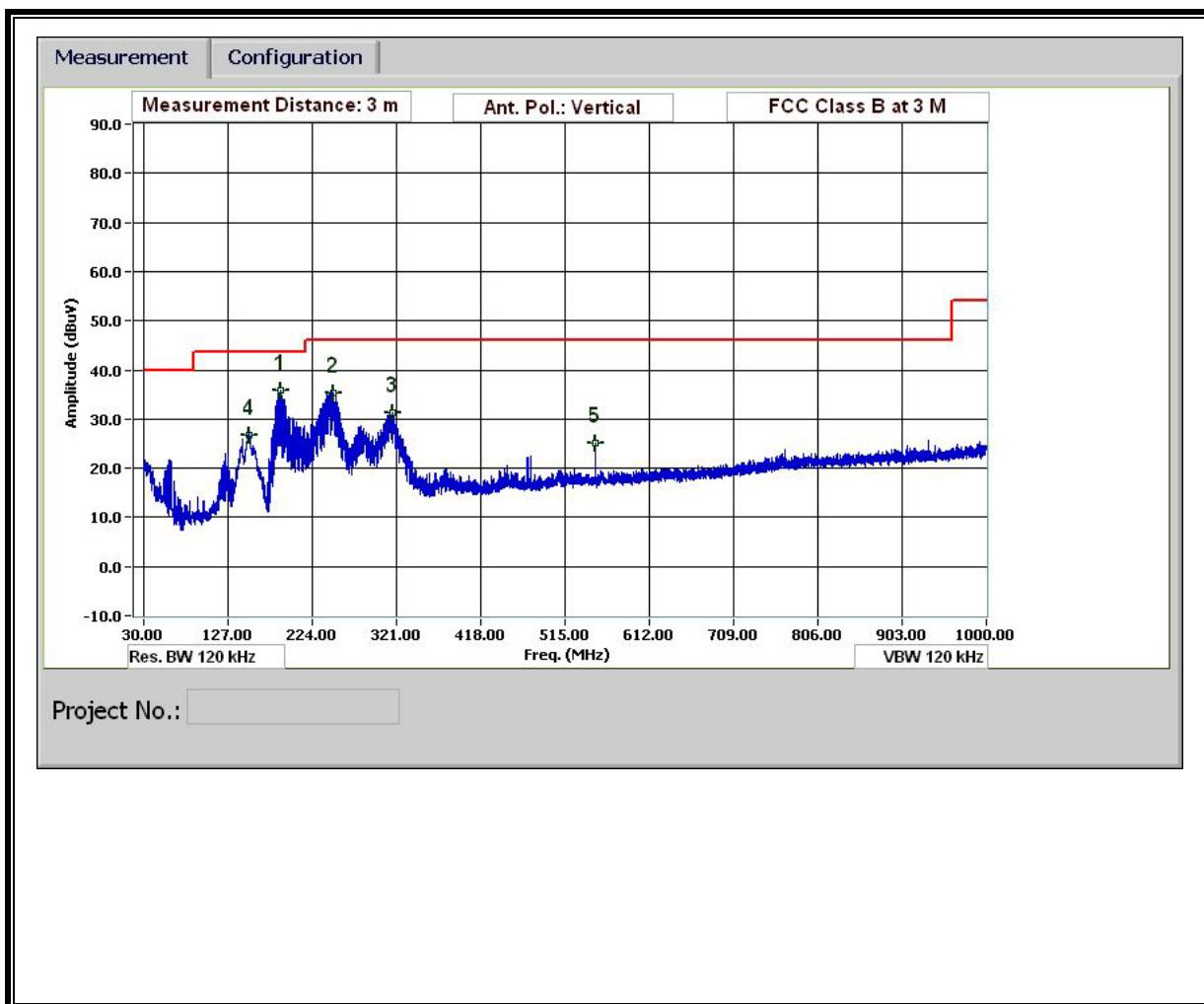
**RECEIVER SPURIOUS EMISSIONS FOR 30 TO 1000 MHz**

30-1000MHz Frequency Measurement Compliance Certification Services, Fremont 5m Chamber													
Test Engr:	Chin Pang												
Date:	10/31/09												
Project #:	09U12852												
Company:	Palm												
EUT Description:	EUT( Standard Cover) with AC adapter												
EUT M/N:	PI21FWW												
Test Target:	FCC Class B												
Mode Oper:	Normal												
f	Measurement Frequency	Amp	Preamp Gain							Margin	Margin vs. Limit		
Dist	Distance to Antenna	D	Corr	Distance Correct to 3 meters									
Read	Analyzer Reading	Filter	Filter	Insert Loss									
AF	Antenna Factor	Corr.	Calculated Field Strength										
CL	Cable Loss	Limit	Field Strength Limit										
f	Dist	Read	AF	CL	Amp	D	Corr.	Filter	Corr.	Margin	Ant. Pol	Det.	Notes
MHz	(m)	dBuV	dB/m	dB	dB	Corr.	dBuV/m	dB	dBuV/m	dB	V/H	P/A/QP	
151.565	3.0	42.5	12.3	1.1	29.3	0.0	0.0	26.7	43.5	-16.8	V	P	
187.086	3.0	52.5	11.1	1.2	29.0	0.0	0.0	35.8	43.5	-7.7	V	P	
248.649	3.0	51.0	11.8	1.4	28.8	0.0	0.0	35.4	46.0	-10.6	V	P	
316.332	3.0	45.1	13.6	1.6	28.9	0.0	0.0	31.4	46.0	-14.6	V	P	
550.461	3.0	35.0	17.5	2.3	29.7	0.0	0.0	25.1	46.0	-20.9	V	P	
186.726	3.0	53.0	11.1	1.2	29.0	0.0	0.0	36.3	43.5	-7.2	H	P	
247.209	3.0	55.5	11.8	1.4	28.8	0.0	0.0	40.0	46.0	-6.0	H	P	
319.332	3.0	48.5	13.6	1.7	28.9	0.0	0.0	34.9	46.0	-11.1	H	P	
550.461	3.0	34.1	17.5	2.3	29.7	0.0	0.0	24.2	46.0	-21.8	H	P	

**HORIZONTAL PLOT**



## VERTICAL PLOT



**EUT WITH INDUCTIVE COVER**

**RECEIVER SPURIOUS EMISSIONS FOR 30 TO 1000 MHz**

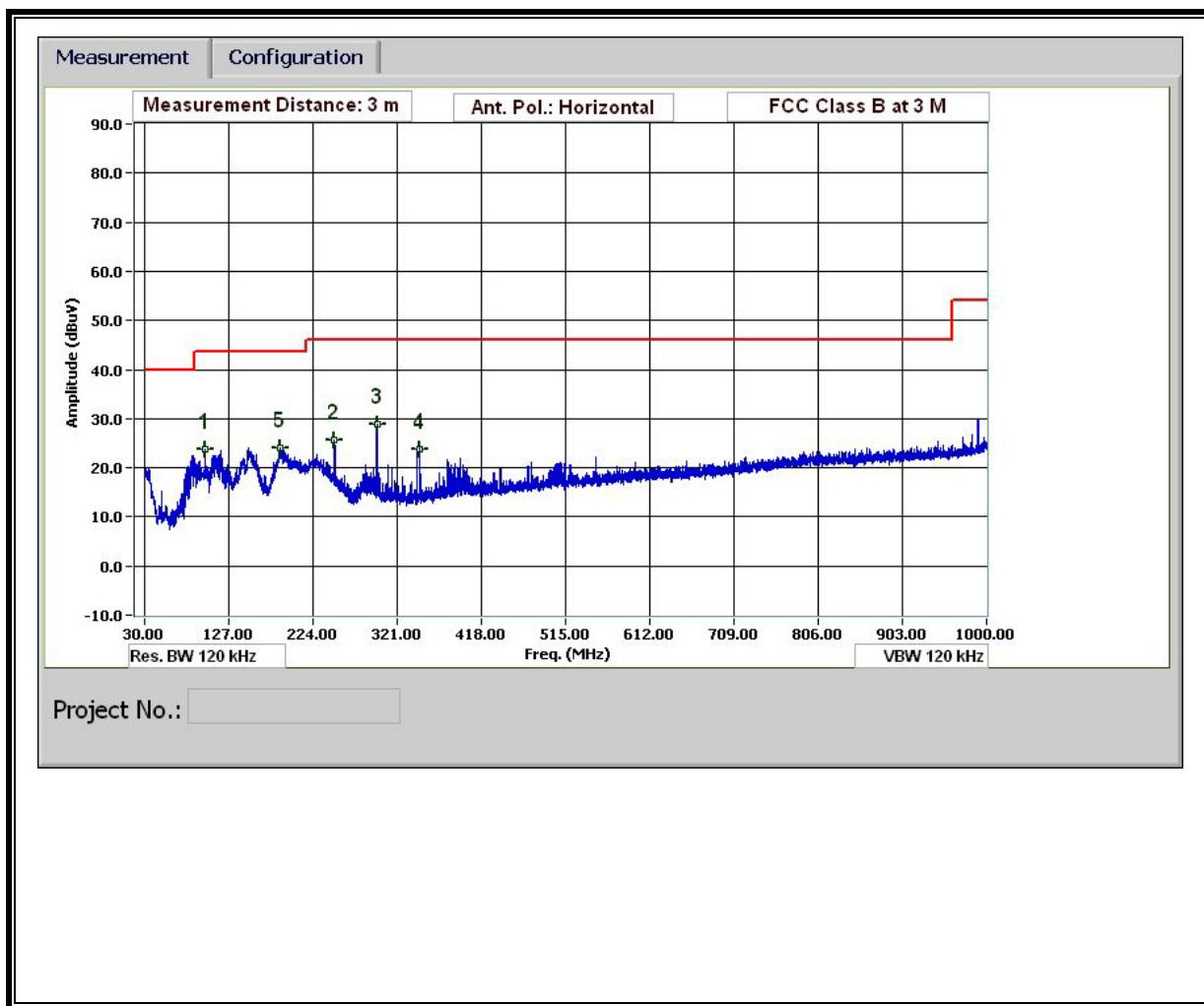
**30-1000MHz Frequency Measurement  
Compliance Certification Services, Fremont 5m Chamber**

Test Engr: Chin Pang  
Date: 10/31/09  
Project #: 09U12852  
Company: Palm  
EUT Description: EUT( Inductive backcover) with inductive charging dock  
EUT M/N: PI21EWW  
Test Target: FCC Class B  
Mode Oper: Normal

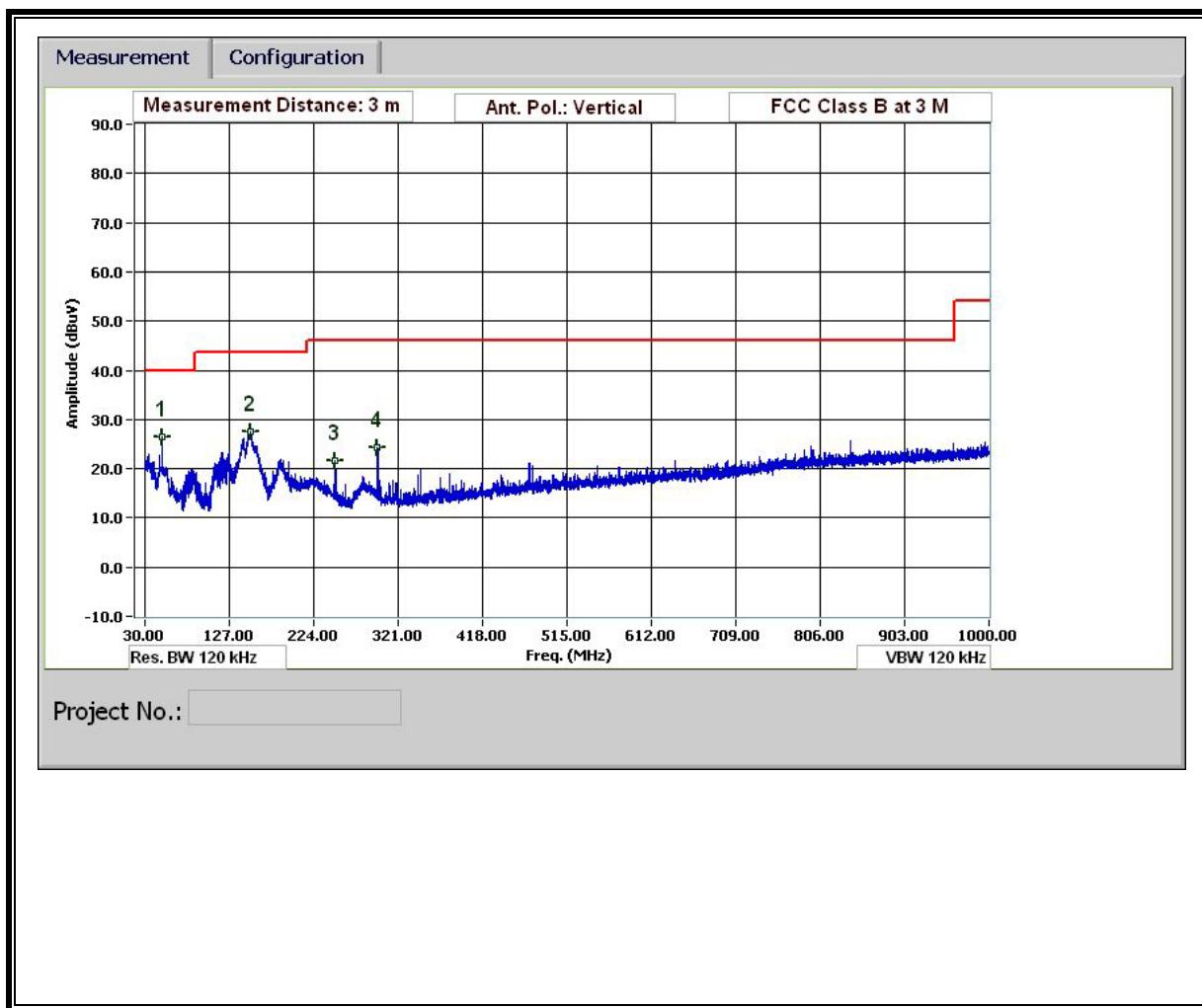
f	Measurement Frequency	Amp	Preamp Gain	Margin	Margin vs. Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters		
Read	Analyzer Reading	Filter	Filter Insert Loss		
AF	Antenna Factor	Corr.	Calculated Field Strength		
CL	Cable Loss	Limit	Field Strength Limit		

f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filter dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol V/H	Det. P/A/QP	Notes
99.123	3.0	42.5	9.8	0.9	29.5	0.0	0.0	23.7	43.5	-19.8	H	P	
186.246	3.0	40.8	11.1	1.2	29.0	0.0	0.0	24.1	43.5	-19.4	H	P	
248.049	3.0	41.3	11.8	1.4	28.8	0.0	0.0	25.7	46.0	-20.3	H	P	
297.731	3.0	42.7	13.2	1.6	28.8	0.0	0.0	28.8	46.0	-17.3	H	P	
347.413	3.0	37.1	14.1	1.7	29.0	0.0	0.0	23.9	46.0	-22.1	H	P	
49.561	3.0	47.1	8.3	0.6	29.6	0.0	0.0	26.4	40.0	-13.6	V	P	
151.085	3.0	43.4	12.4	1.1	29.3	0.0	0.0	27.6	43.5	-15.9	V	P	
247.929	3.0	37.1	11.8	1.4	28.8	0.0	0.0	21.5	46.0	-24.5	V	P	
297.491	3.0	38.3	13.2	1.6	28.8	0.0	0.0	24.3	46.0	-21.7	V	P	

**HORIZONTAL PLOT**



**VERTICAL PLOT**



Project No.:

**RECEIVER SPURIOUS EMISSIONS FOR ABOVE 1GHz**

Note: No emissions were found within above 1GHz of 20dB below the system noise floor.

## 9.4. POWER LINE CONDUCTED EMISSION

### LIMIT

RSS-Gen 7.2.2

Except when the requirements applicable to a given device state otherwise, for any licence-exempt radio communication device equipped to operate from the public utility AC power supply, either directly or indirectly, the radio frequency voltage that is conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in Table 2. The tighter limit applies at the frequency range boundaries.

Table 2 – AC Power Lines Conducted Emission Limits

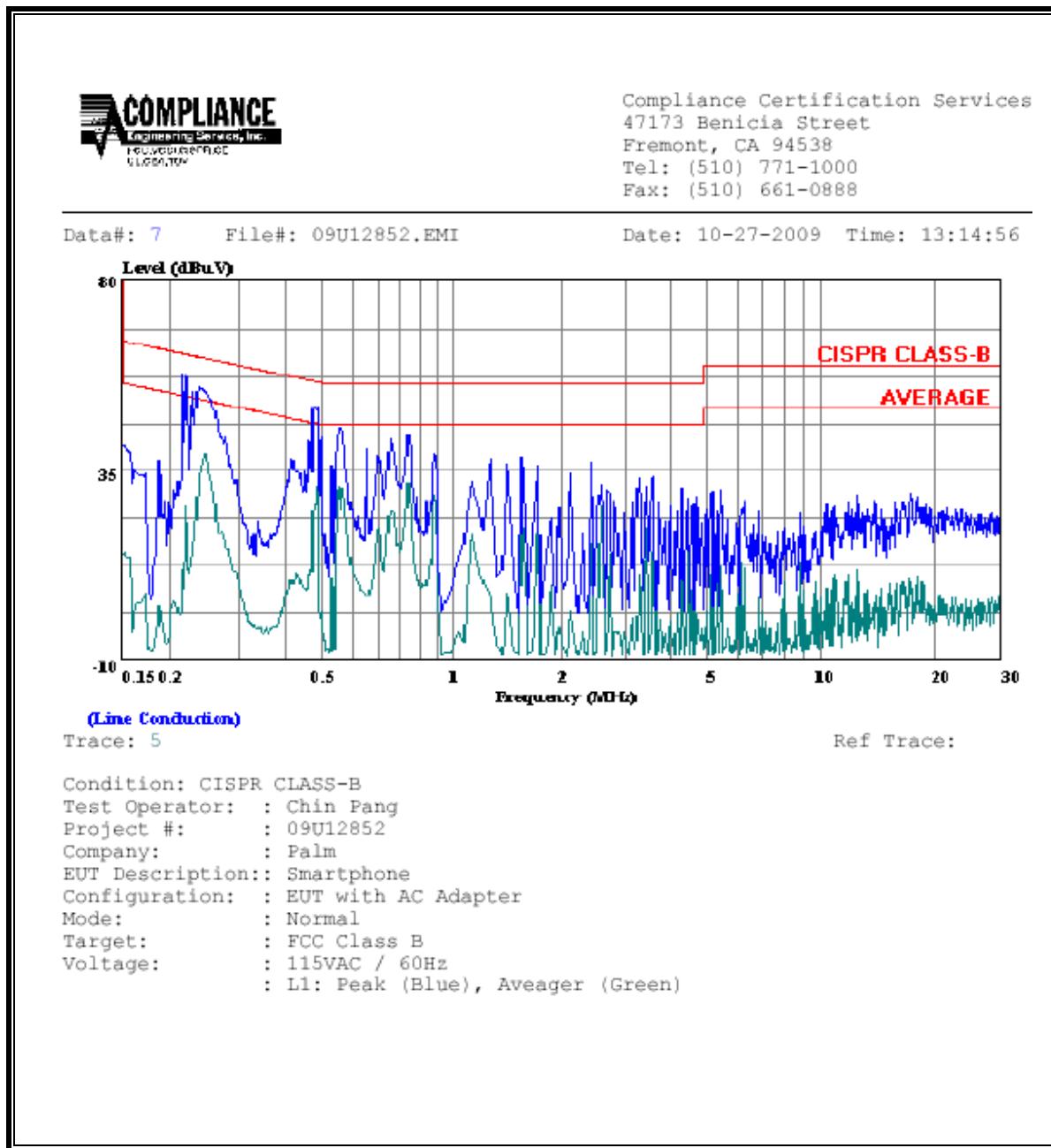
Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
	66 to 56 <sup>*</sup>	56 to 46 <sup>*</sup>
0.15-0.5	56	46
0.5-5	60	50
5-30		

<sup>\*</sup> Decreases with the logarithm of the frequency.

### RESULTS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq. (MHz)	Reading			Closs (dB)	Limit	FCC_B	Margin		Remark
	PK (dBuV)	QP (dBuV)	AV (dBuV)				QP	AV	
0.19	55.51	--	42.98	0.00	64.08	54.08	-8.57	-11.10	L1
0.63	49.12	--	39.01	0.00	56.00	46.00	-6.88	-6.99	L1
15.89	45.19	--	32.29	0.00	60.00	50.00	-14.81	-17.71	L1
0.19	47.17	--	33.56	0.00	64.08	54.08	-16.91	-20.52	L2
0.63	45.14	--	30.49	0.00	56.00	46.00	-10.86	-15.51	L2
15.97	48.74	--	35.07	0.00	60.00	50.00	-11.26	-14.93	L2
6 Worst Data									

**LINE 1 RESULTS**



**LINE 2 RESULTS**

