



HCT CO., LTD.

Product Compliance Division

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FCC Certification

Applicant Name:

M Seven System Ltd.

Address:

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Korea(137-739)

Date of Issue:

August 13, 2010

Location:

HCT CO., LTD., San 136-1 Ami-ri, Bubal-eup, Icheon-si,
Kyungki-do, Korea

Test Report No.: HCTR1008FR03-1

HCT FRN: 0005866421

IC Recognition No.: IC 5944A-1

FCC ID : XOECMRF101B

APPLICANT : M Seven System Ltd.

Model(s): 28235591

EUT Type: Dual Band CDMA 1x / GPS(Module)

Tx Frequency: 824.70 — 848.31 MHz (CDMA)
1 851.25 — 1 908.75 MHz (PCS CDMA)

Rx Frequency: 869.70 — 893.31 MHz (CDMA)
1 931.25 — 1 988.75 MHz (PCS CDMA)

Max. RF Output Power: 0.324 W ERP CDMA (25.10 dBm) / 0.110 W EIRP PCS CDMA (20.42 dBm)

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

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): §22, §24, §2

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S. C.853(a)

Hyo Sun Kwak
Report prepared by

: Hyo Sun Kwak

Test engineer of RF Team

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Approved by

: Sang Jun Lee

Manager of RF Team

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Test Report No. HCTR1008FR03-2	Date of Issue: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECMRF101B	Page 1 of 37



Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1008FR03	August 12, 2010	First Approval Report.
HCTR1008FR03-1	August 13, 2010	Change the EUT Type.
HCTR1008FR03-2	August 16, 2010	Change the FCC Classification

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 2 of 37

Table of Contents

1. GENERAL INFORMATION	4
2. INTRODUCTION	5
2.1. EUT DESCRIPTION	5
2.2. MEASURING INSTRUMENT CALIBRATION	5
2.3. TEST FACILITY	5
3. DESCRIPTION OF TESTS	6
3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER	6
3.2 PEAK- TO- AVERAGE RATIO	7
3.3 OCCUPIED BANDWIDTH	8
3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	9
3.5 RADIATED SPURIOUS AND HARMONIC EMISSIONS	10
3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	11
4. LIST OF TEST EQUIPMENT	12
5. SUMMARY OF TEST RESULTS	13
6. SAMPLE CALCULATION	14
7. TEST DATA	15
7.1 CONDUCTED OUTPUT POWER	15
7.3 OCCUPIED BANDWIDTH	16
7.4 CONDUCTED SPURIOUS EMISSIONS	16
7.4.1 BAND EDGE	16
7.5 EFFECTIVE RADIATED POWER OUTPUT	17
7.6 EQUIVALENT ISOTROPIC RADIATED POWER	18
7.7 RADIATED SPURIOUS EMISSIONS	19
7.7.1 RADIATED SPURIOUS EMISSIONS(CDMA Mode)	19
7.7.2 RADIATED SPURIOUS EMISSIONS(PCS Mode)	20
7.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	21
7.8.1 FREQUENCY STABILITY (CDMA)	21
7.8.2 FREQUENCY STABILITY (PCS CDMA)	22
8. TEST PLOTS	23



MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: M Seven System Ltd.

Address: 24F, Trust Tower Bldg., 275-7, Yangjae 2-Dong, Seoul, Korea(137-739)

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FCC ID: XOECDMRF101B

Application Type: Certification

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): §22, §24, §2

EUT Type: Dual Band CDMA 1x / GPS(Module)

Model(s): 28235591

Tx Frequency:
824.70 — 848.31 MHz (CDMA)
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Max. RF Output Power: 0.324 W ERP CDMA (25.10 dBm) / 0.110 W EIRP PCS CDMA (20.42 dBm)

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

Antenna Specification
Manufacturer: HANWOOL TECHNOLOGY
Antenna type: monopole Antenna
Peak Gain: -2.00 dBi

Date(s) of Tests: August 03, 2010 ~ August 06, 2010

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 4 of 37



2. INTRODUCTION

2.1. EUT DESCRIPTION

The 28235591 Dual Band CDMA 1x / GPS(Module) consists of Cellular CDMA and PCS.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

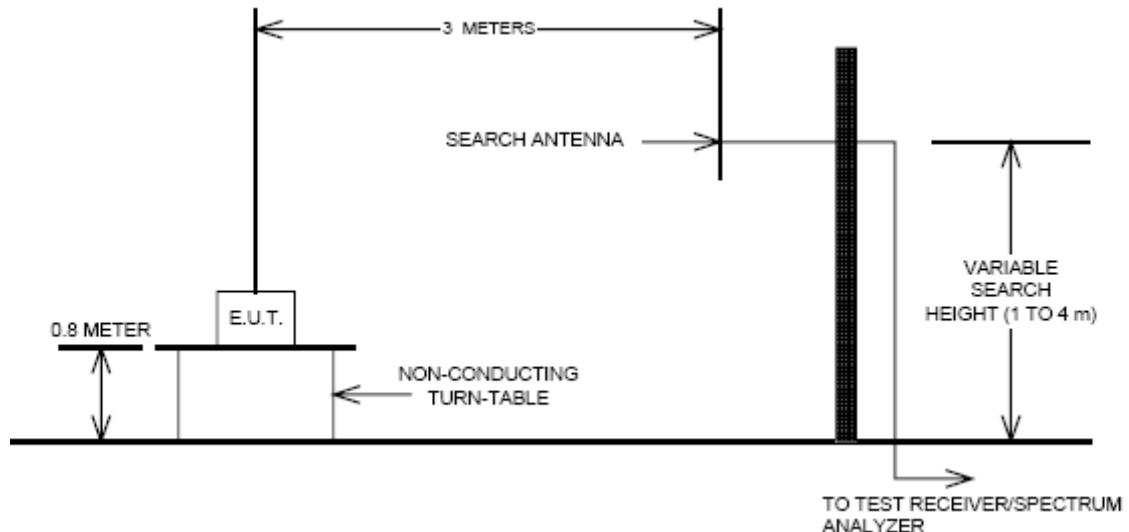
The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated June 10, 2009 (Registration Number: 90661)

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 5 of 37

3. DESCRIPTION OF TESTS

3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER

Test Set-up



Test Procedure

Radiated emission measurements were performed at an open Site.

The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.

A wooden turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. 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.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55(CDMA) and RC1/SO55(PCS), with 'All Up' power control bits.

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 6 of 37



3.2 PEAK- TO- AVERAGE RATIO

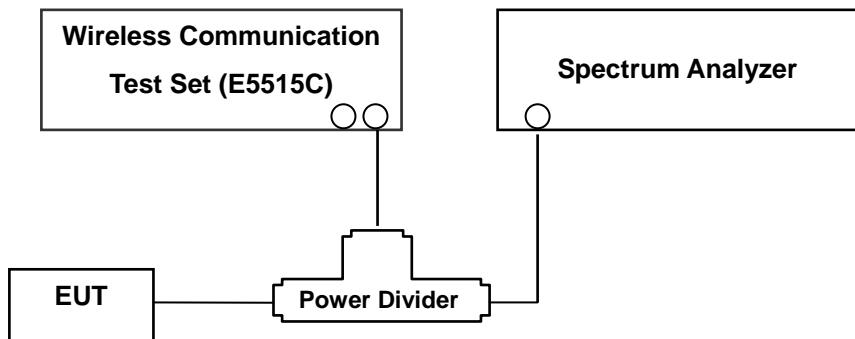
A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA and WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT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

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55(CDMA) and RC1/SO55(PCS), with 'All Up' power control bits

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 7 of 37

3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

Test Procedure

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Plots of the EUT's occupied bandwidth are shown herein.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55(CDMA) and RC1/SO55(PCS), with 'All Up' power control bits

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 8 of 37



3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

The EUT was setup to maximum output power at its lowest channel. The Resolution BW of the analyzer is set to 1 % of the emission bandwidth to show compliance with the – 13 dBm limit, in the 1 MHz bands immediately outside and adjacent to the edge of the frequency block. The 1 MHz RBW was used to scan from 30 MHz to 10 GHz. (PCS CDMA Mode: 30 MHz to 20 GHz). A display line was placed at – 13 dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

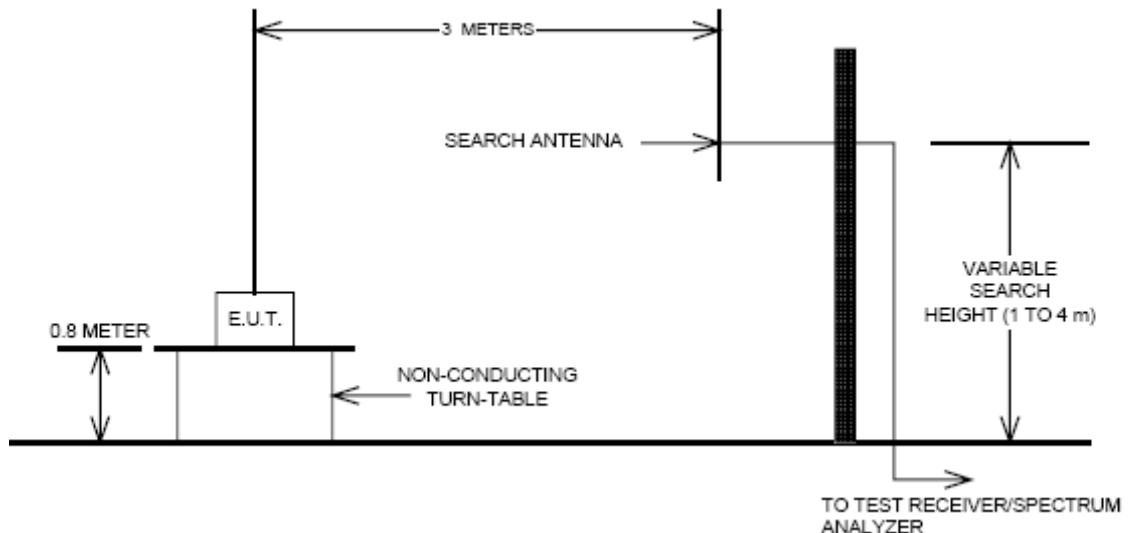
- Band Edge Requirement : In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55(CDMA) and RC1/SO55(PCS), with 'All Up' power control bits

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 9 of 37

3.5 RADIATED SPURIOUS AND HARMONIC EMISSIONS

Test Set-up



The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section § 2.948. The open field test site is situated in open field with ground screen whose site attenuation characteristics meet ANSI C63.4 –2003. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotatable wooden platform mounted at three from the antenna mast.

- 1) The unit mounted on a wooden table 1.5 m x 1.0 m x 0.80 m is 0.8 meter above test site ground level.
- 2) During the emission test, the turntable is rotated and the EUT is manipulated to find the configuration resulting in maximum emission under normal condition of installation and operation.
- 3) The antenna height and polarization are also varied from 1 to 4 meters until the maximum signal is found.
- 4) The spectrum shall be scanned up to the 10th harmonic of the fundamental frequency.

Test Procedure

The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.

A wooden turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

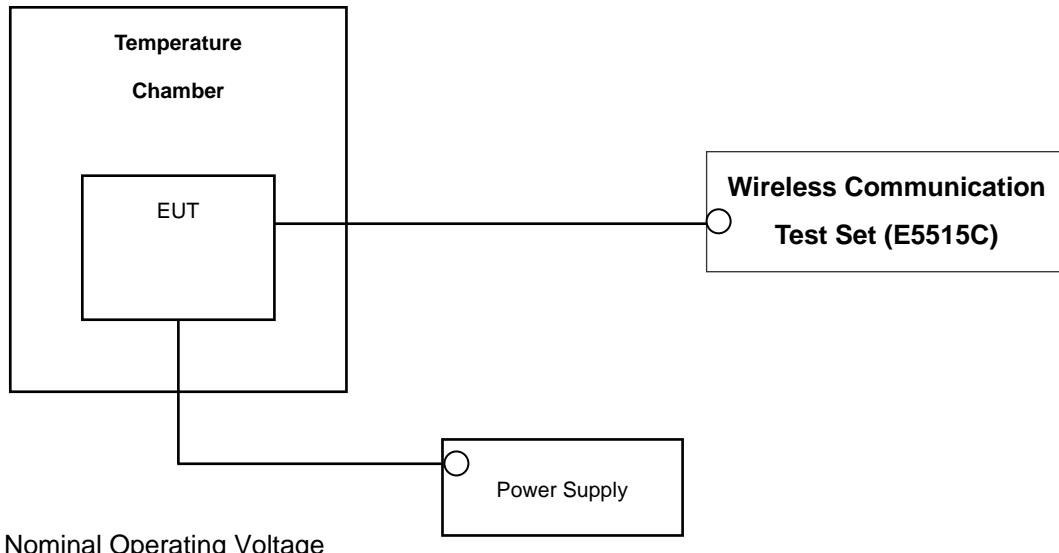
The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55(CDMA) and RC1/SO55(PCS), with 'All Up' power control bits

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 10 of 37

3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



Test Procedure

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point 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 $\pm 0.000\ 25\% (\pm 2.5\ ppm)$ of the center frequency.

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

1. The equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

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

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55(CDMA) and RC1/SO55(PCS), with 'All Up' power control bits

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 11 of 37



4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
R&S	ESI40/ Spectrum Analyzer	831564/003	Annual	10/30/2010
Agilent	E4416A/ Power Meter	GB41291412	Annual	01/14/2011
Agilent	E9327A/ Power Sensor	MY4442009	Annual	07/23/2011
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/10/2011
MITEQ	AMF-6D-001180-35-20P/AMP	990893	Annual	05/20/2011
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	06/25/2011
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	06/25/2011
Agilent	775D/ Dual Directional Coupler	12922	Annual	12/24/2010
Agilent	11636B/ Power Divider	11377	Annual	12/24/2010
Digital	EP-3010/ Power Supply	3110117	Annual	01/08/2011
Schwarzbeck	UHAP/ Dipole Antenna	585	Biennial	02/13/2011
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	02/13/2011
Korea Engineering	KR-1005L / Chamber	KRAB07063-2CH	Annual	12/28/2010
Schwarzbeck	BBHA 9120D/ Horn Antenna	296	Biennial	09/23/2011
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	06/09/2011

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 1 2 of 37



5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 22.917(a), 24.238(a)	Occupied Bandwidth	N/A	CONDUCTED	PASS
2.1051, 22.917(a), 24.238(a)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< $43 + 10\log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions		PASS
2.1046	Conducted Output Power	N/A		PASS
24.232(d),	Peak- to- Average Ratio	< 13 dB		PASS
2.1055, 22.355, 24.235	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
22.913(a)(2) 24.232(c)	Effective Radiated Power	< 7 Watts max. ERP	RADIATED	PASS
	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP		PASS
2.1053, 22.917(a), 24.238(a)	Radiated Spurious and Harmonic Emissions	< $43 + 10\log_{10}(P[\text{Watts}])$ for all out-of band emissions		PASS

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 13 of 37



6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured Level(dBm)	Substitute LEVEL(dBm)	Ant. Gain	C.L	Pol.	ERP	
	channel	Freq.(MHz)						W	dBm
CDMA	384	836.52	-10.96	24.81	2.50	1.19	H	0.41	26.12

ERP = SubstituteLEVEL(dBm) + Ant. Gain – CL(Cable Loss)

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test , the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (**ERP**).

B. Emission Designator

CDMA Emission Designator

Emission Designator = 1M27F9W

CDMA BW = 1.27 MHz (Measured at the 99% power bandwidth)

F = Frequency Modulation

9 = Composite Digital Info

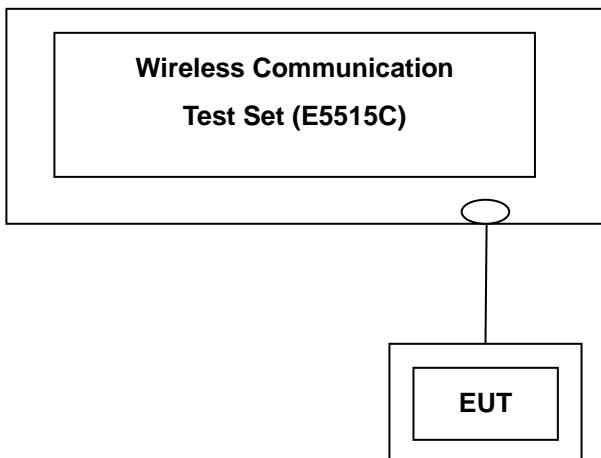
W = Combination (Audio/Data)

FCC CERTIFICATION REPORT					www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)		FCC ID: XOECDMRF101B	Page 1 4 of 37

7. TEST DATA

7.1 CONDUCTED OUTPUT POWER

A base station simulator was used to establish communication with The EUT. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the highest power is reported. Conducted Output Powers of EUT are reported below.



Band	Channel	SO2	SO2	SO55	SO55	TDSO SO32
		RC1/1 (dBm)	RC3/3 (dBm)	RC1/1 (dBm)	RC3/3 (dBm)	RC3/3 (dBm)
CDMA	1013	23.75	23.66	23.95	24.08	23.80
	384	23.89	23.76	23.93	23.92	23.80
	777	24.04	24.02	24.00	24.18	23.94
PCS	25	23.63	23.78	23.85	23.74	23.70
	600	23.62	23.58	23.70	23.74	23.72
	1175	23.53	23.63	23.66	23.64	23.55

(Maximum Conducted Output Powers)

Note : Detecting mode is average.

7.2 PEAK-TO-AVERAGE RATIO

- Plot of the EUT's Peak- to- Average Ratio is shown Page 27.

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 15 of 37



7.3 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (MHz)
CDMA	1013	824.70	1.2756
	384	836.52	1.2707
	777	848.31	1.2744
PCS	25	1851.25	1.2758
	600	1880.00	1.2778
	1175	1908.75	1.2762

- Plots of the EUT's Occupied Bandwidth are shown Page 24 ~ 26.

7.4 CONDUCTED SPURIOUS EMISSIONS

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
CDMA	1013	7.8250	-40.75
	384	7.1000	-40.95
	777	7.7875	-40.60
PCS	25	3.7020	-37.25
	600	3.7620	-35.33
	1175	3.8150	-31.24

- Plots of the EUT's Conducted Spurious Emissions are shown Page 31 ~ 37.

7.4.1 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 27 ~ 31.

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 16 of 37



7.5 EFFECTIVE RADIATED POWER OUTPUT

(CDMA Mode)

Mode	Ch./ Freq.		Measured Level(dBm)	Substitute LEVEL (dBm)	Ant. Gain	C.L	Pol.	ERP	
	channel	Freq.(MHz)						W	dBm
CDMA	1013	824.70	-11.93	35.84	-10.25	1.17	H	0.28	24.42
	384	836.52	-12.53	36.10	-10.36	1.19	H	0.29	24.55
	777	848.31	-12.70	36.77	-10.47	1.20	H	0.32	25.10

Note: Standard batteries are the only options for this phone

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 = 5MHz. 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.

Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is in y plane in CDMA mode. Also worst case of detecting Antenna is in horizontal polarization in CDMA mode.

FCC CERTIFICATION REPORT					www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:		
HCTR1008FR03-2	August 16, 2010	Dual Band CDMA 1x / GPS(Module)	XOECDMRF101B		Page 17 of 37



7.6 EQUIVALENT ISOTROPIC RADIATED POWER

(PCS CDMA Mode)

Mode	Ch./ Freq.		Measured Level(dBm)	Substitute LEVEL (dBm)	Ant. Gain	C.L	Pol.	EIRP	
	channel	Freq.(MHz)						W	dBm
PCS	25	1,851.25	-21.30	9.95	10.40	1.91	V	0.07	18.44
	600	1,880.00	-19.50	11.94	10.43	1.95	V	0.11	20.42
	1175	1,908.75	-21.00	10.49	10.47	1.97	V	0.08	18.99

Note: Standard batteries are the only options for this phone

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 = 5MHz. 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.

Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is in y plane in PCS mode. Also worst case of detecting Antenna is in vertical polarization in PCS mode.

FCC CERTIFICATION REPORT					www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:	FCC ID:	Page	of 37
HCTR1008FR03-2	August 16, 2010	Dual Band CDMA 1x / GPS(Module)	XOECDMRF101B	1	8



7.7 RADIATED SPURIOUS EMISSIONS

7.7.1 RADIATED SPURIOUS EMISSIONS(CDMA Mode)

MEASURED OUTPUT POWER: 25.10 dBm = 0.324 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: - (43 + 10 log₁₀ (W)) = - 38.10 dBc

Ch.	Freq.(MHz)	<u>Measured Level</u> <u>[dBm]</u>	Ant. Gain	<u>Substitute</u> <u>Level</u> <u>[dBm]</u>	C.L	Pol.	ERP (dBm)	dBc
1013	1,649.40	-56.64	7.09	-67.17	1.73	H	-61.81	-86.91
	2,474.10	-43.31	8.12	-50.42	2.28	H	-44.58	-69.68
	3,298.80	-	-	-	-	-	-	-
384	1,673.04	-56.80	7.23	-67.56	1.79	V	-62.12	-87.22
	2,509.56	-45.09	8.14	-52.22	2.33	V	-46.41	-71.51
	3,346.08	-	-	-	-	-	-	-
777	1,696.62	-57.76	7.41	-68.37	1.83	H	-62.79	-87.89
	2,544.93	-46.24	8.21	-53.52	2.34	H	-47.65	-72.75
	3,393.24	-	-	-	-	-	-	-

NOTES:

1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:
2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5th Harmonic for all channel.
3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC CERTIFICATION REPORT					www.hct.co.kr
Test Report No.	Test Dates:	EUT Type:			FCC ID:
HCTR1008FR03-2	August 16, 2010	Dual Band CDMA 1x / GPS(Module)			XOECDMRF101B
					Page 19 of 37



7.7.2 RADIATED SPURIOUS EMISSIONS(PCS Mode)

MEASURED OUTPUT POWER: 20.42 dBm = 0.110 W

MODULATION SIGNAL: PCS CDMA

DISTANCE: 3 meters

LIMIT: - (43 + 10 \log_{10} (W)) = - 33.42 dBc

Ch.	Freq.(MHz)	<u>Measured Level</u> <u>[dBm]</u>	Ant. Gain	<u>Substitute</u> <u>Level</u> <u>[dBm]</u>	C.L	Pol.	EIRP (dBm)	dBc
25	3,702.50	-48.04	12.46	-54.31	2.73	V	-44.58	-65.00
	5,553.75	-	-	-	-	-	-	-
	7,405.00	-	-	-	-	-	-	-
600	3,760.00	-52.16	12.47	-58.13	2.73	V	-48.39	-68.81
	5,640.00	-	-	-	-	-	-	-
	7,520.00	-	-	-	-	-	-	-
1175	3,817.50	-39.24	12.49	-45.12	2.73	V	-35.36	-55.78
	5,726.25	-	-	-	-	-	-	-
	7,635.00	-	-	-	-	-	-	-

NOTES:

1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:
2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5th Harmonic for all channel.
3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

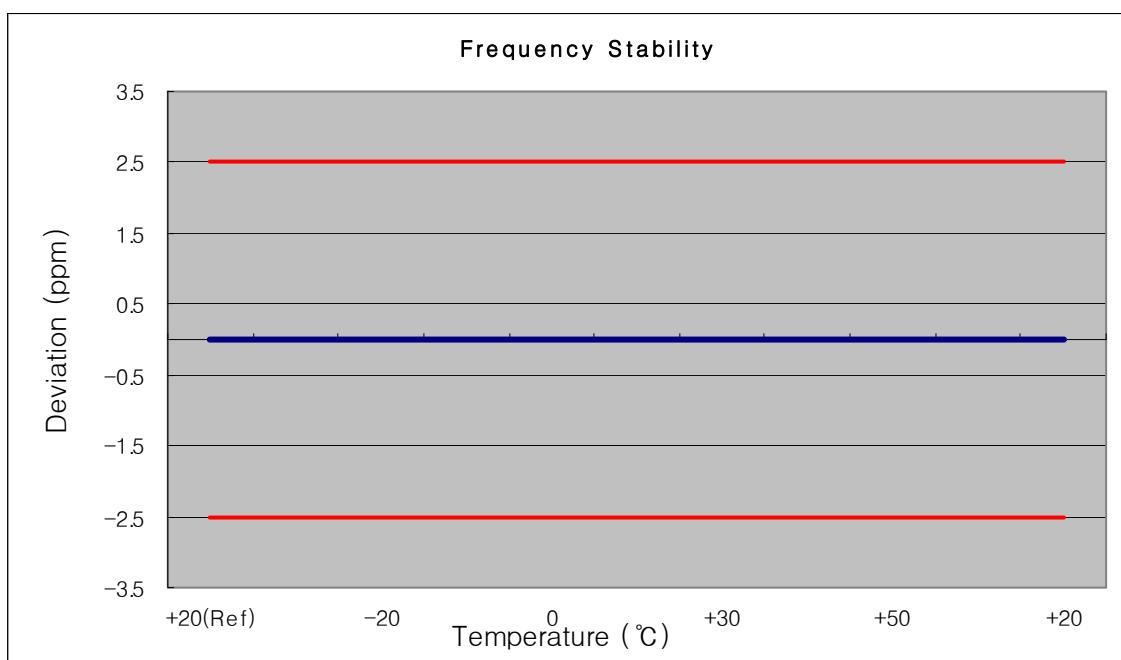
FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 20 of 37

7.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

7.8.1 FREQUENCY STABILITY (CDMA)

OPERATING FREQUENCY: 836,520,000 Hz
 CHANNEL: 384
 REFERENCE VOLTAGE: 3.7 VDC
 DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.700	+20(Ref)	836 519 996	0	0.000 000	0.000
100%		-30	836 519 996	-4.00	0.000 000	-0.005
100%		-20	836 519 998	-1.98	0.000 000	-0.002
100%		-10	836 520 005	4.75	0.000 001	0.006
100%		0	836 520 003	2.79	0.000 000	0.003
100%		+10	836 519 994	-5.72	-0.000 001	-0.007
100%		+30	836 520 003	2.72	0.000 000	0.003
100%		+40	836 519 996	-3.94	0.000 000	-0.005
100%		+50	836 520 003	3.01	0.000 000	0.004
115%	4.255	+20	836 519 996	-3.52	0.000 000	-0.004
Batt. Endpoint	3.400	+20	836 520 003	3.12	0.000 000	0.004

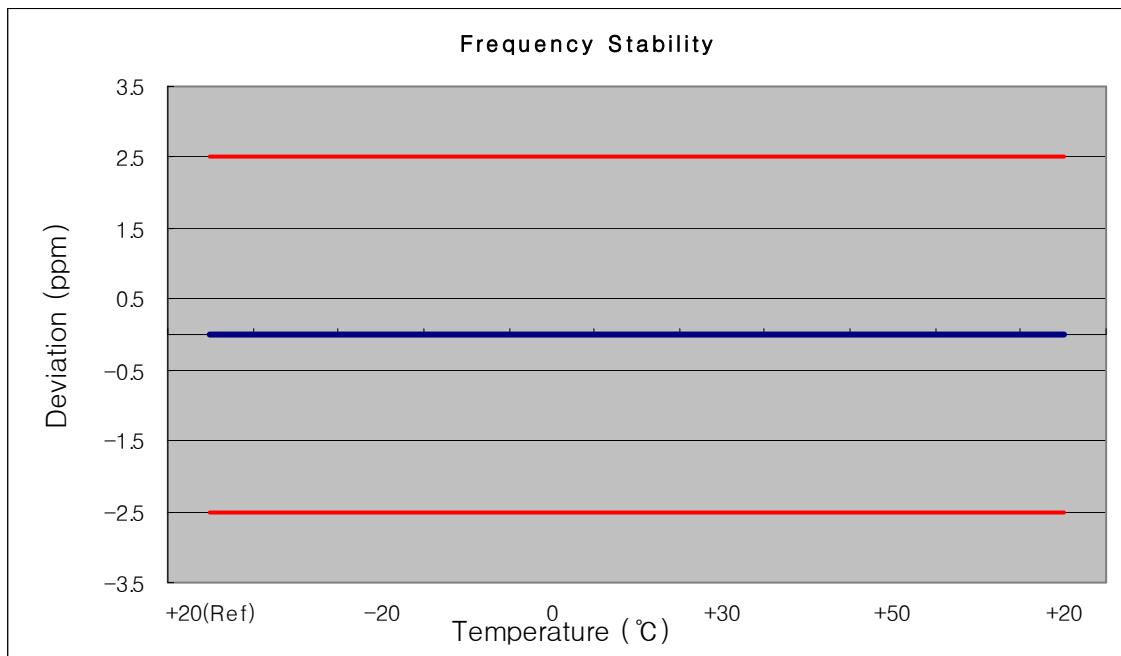


FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 21 of 37

7.8.2 FREQUENCY STABILITY (PCS CDMA)

OPERATING FREQUENCY: 1880,000,000 Hz
 CHANNEL: 600
 REFERENCE VOLTAGE: 3.7 VDC
 DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.700	+20(Ref)	1880 000 004	0	0.000 000	0.000
100%		-30	1880 000 005	4.53	0.000 000	0.002
100%		-20	1880 000 004	3.51	0.000 000	0.002
100%		-10	1880 000 004	4.04	0.000 000	0.002
100%		0	1880 000 002	2.43	0.000 000	0.001
100%		+10	1879 999 995	-4.55	0.000 000	-0.002
100%		+30	1880 000 002	2.03	0.000 000	0.001
100%		+40	1880 000 005	5.48	0.000 000	0.003
100%		+50	1879 999 997	-3.14	0.000 000	-0.002
115%	4.255	+20	1880 000 002	2.10	0.000 000	0.001
Batt. Endpoint	3.400	+20	1880 000 002	1.83	0.000 000	0.001

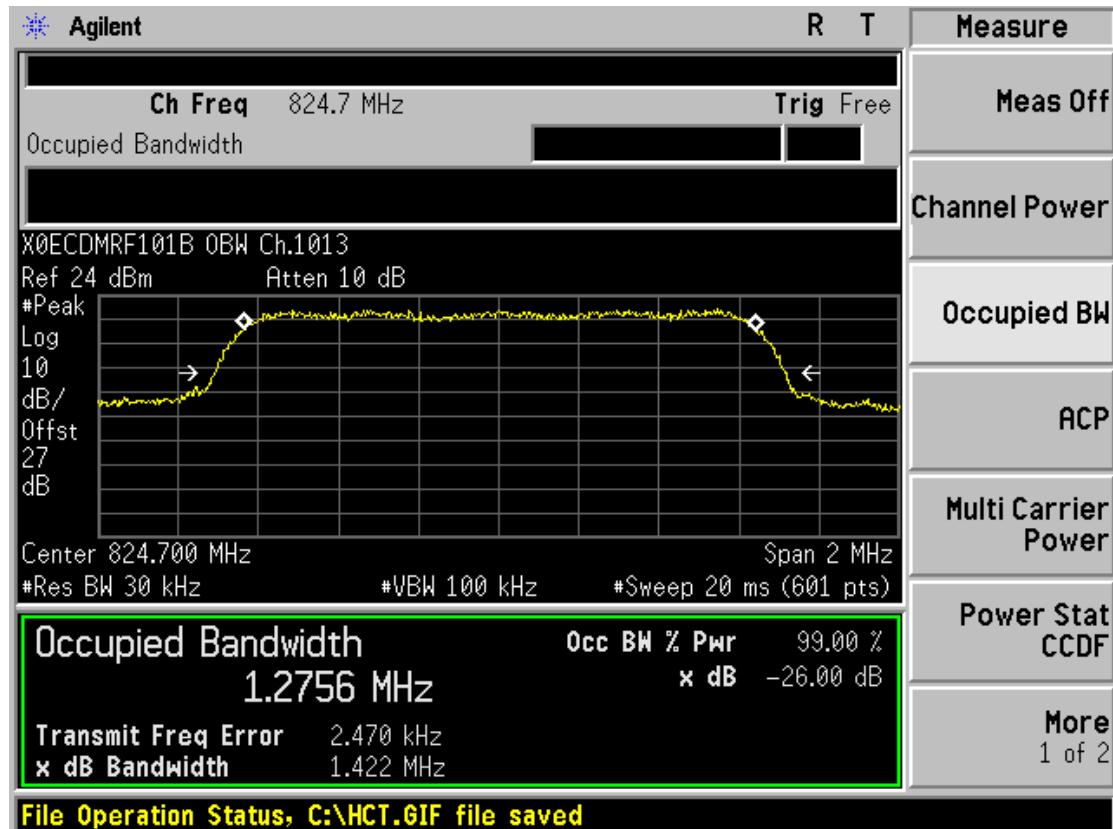




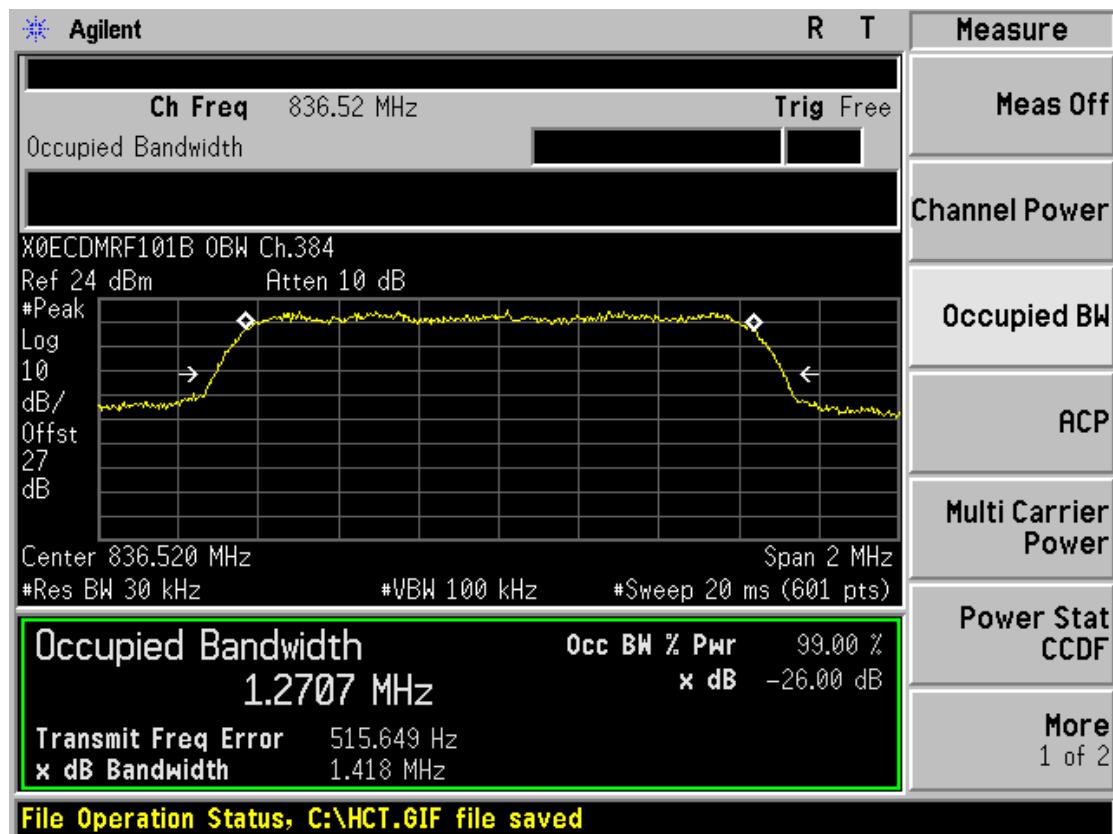
8. TEST PLOTS

FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 23 of 37

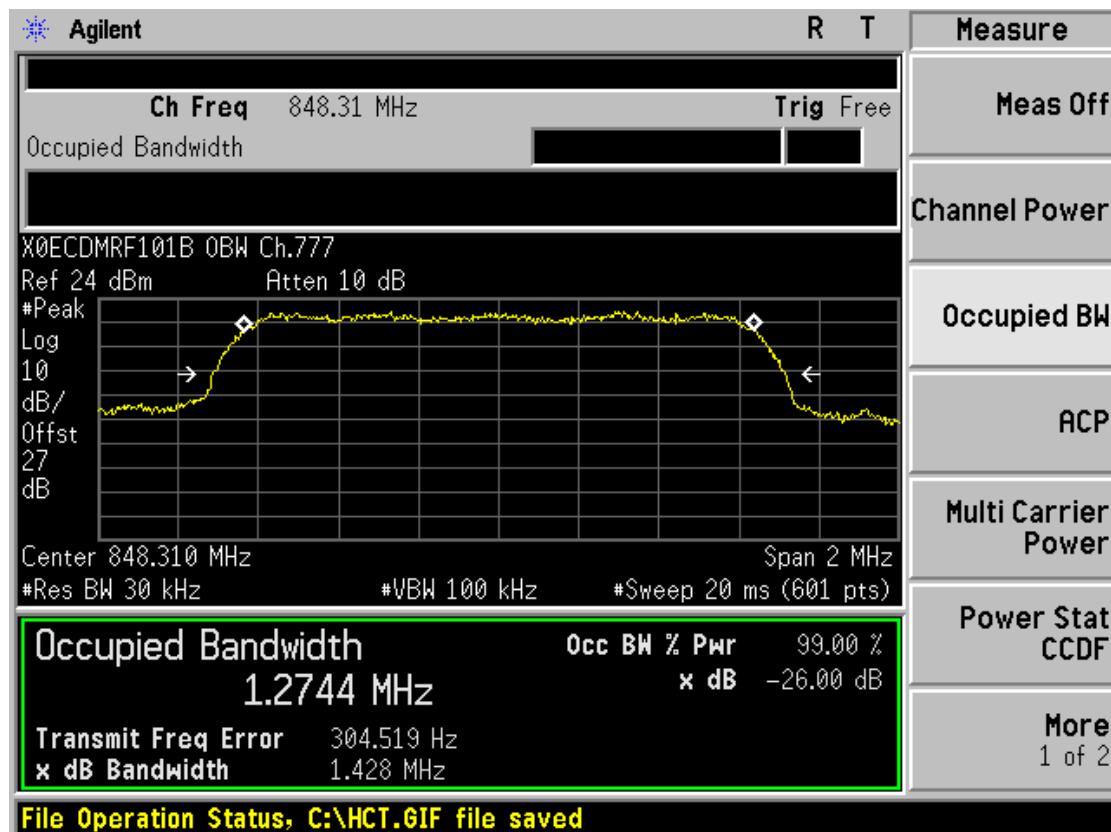
■ CDMA MODE (1013 CH.) Occupied Bandwidth



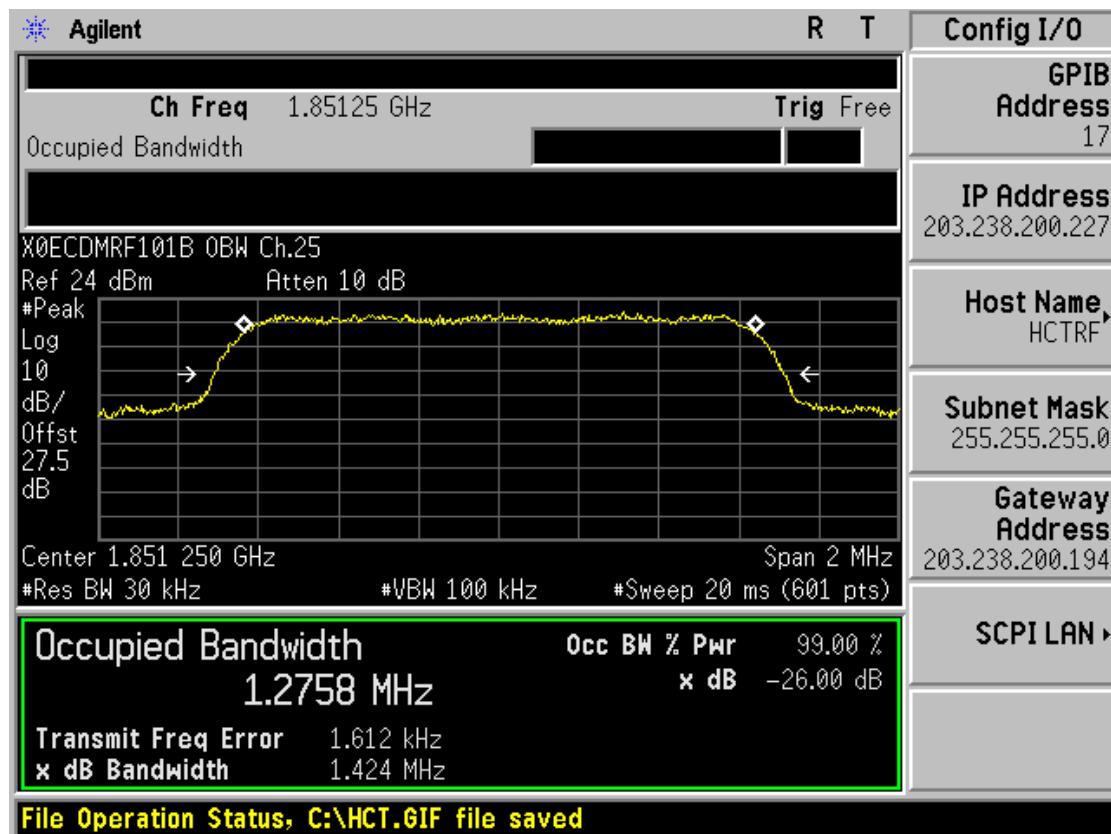
■ CDMA MODE (384 CH.) Occupied Bandwidth



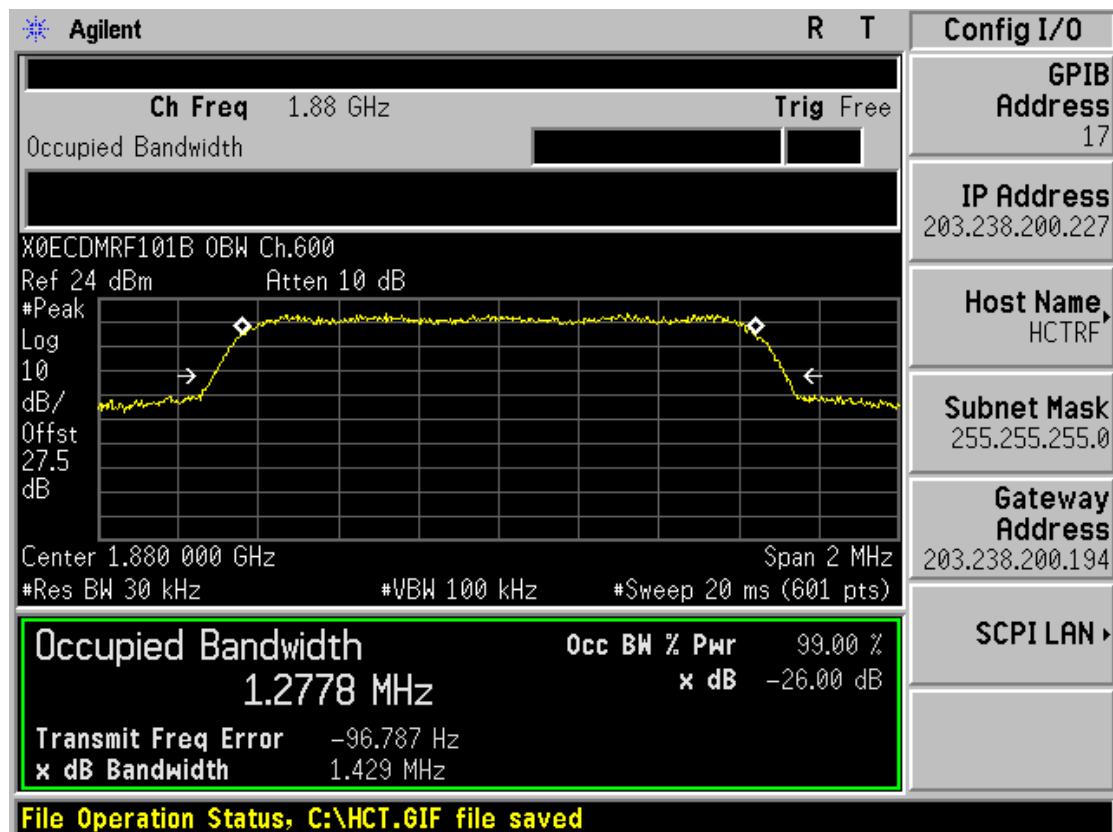
■ CDMA MODE (777 CH.) Occupied Bandwidth



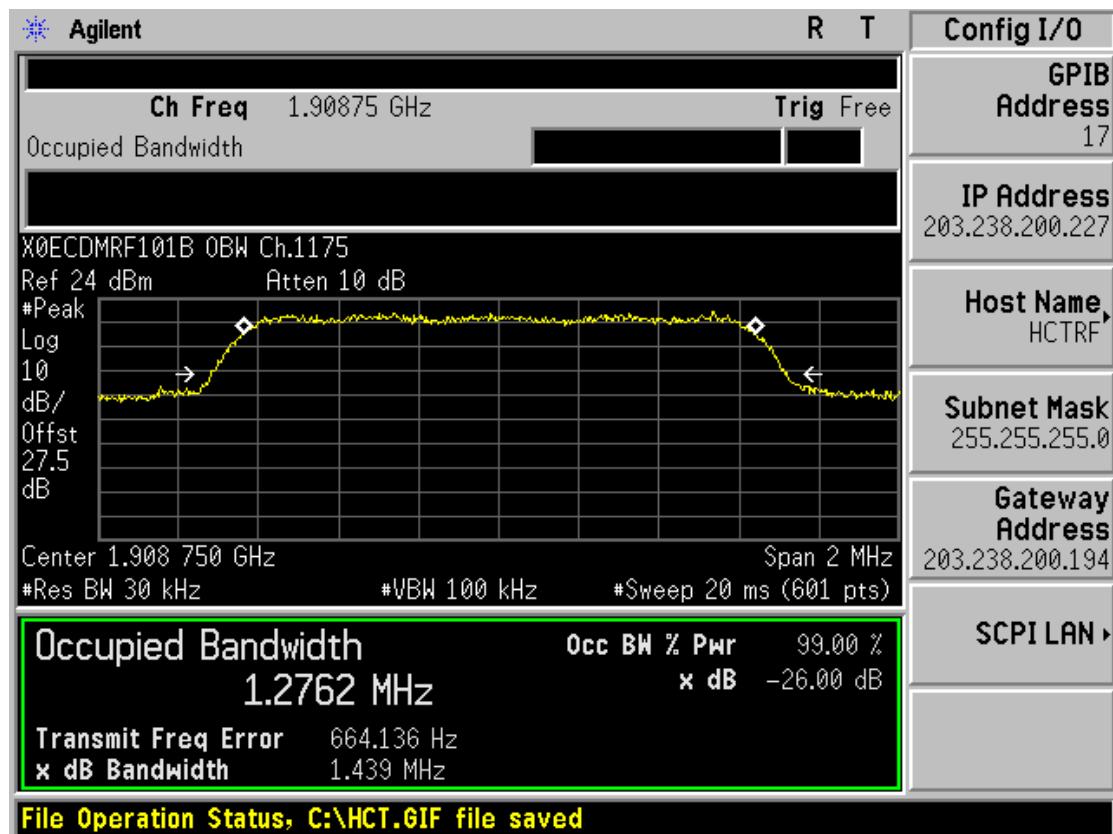
■ PCS CDMA MODE (25 CH.) Occupied Bandwidth



■ PCS CDMA MODE (600 CH.) Occupied Bandwidth



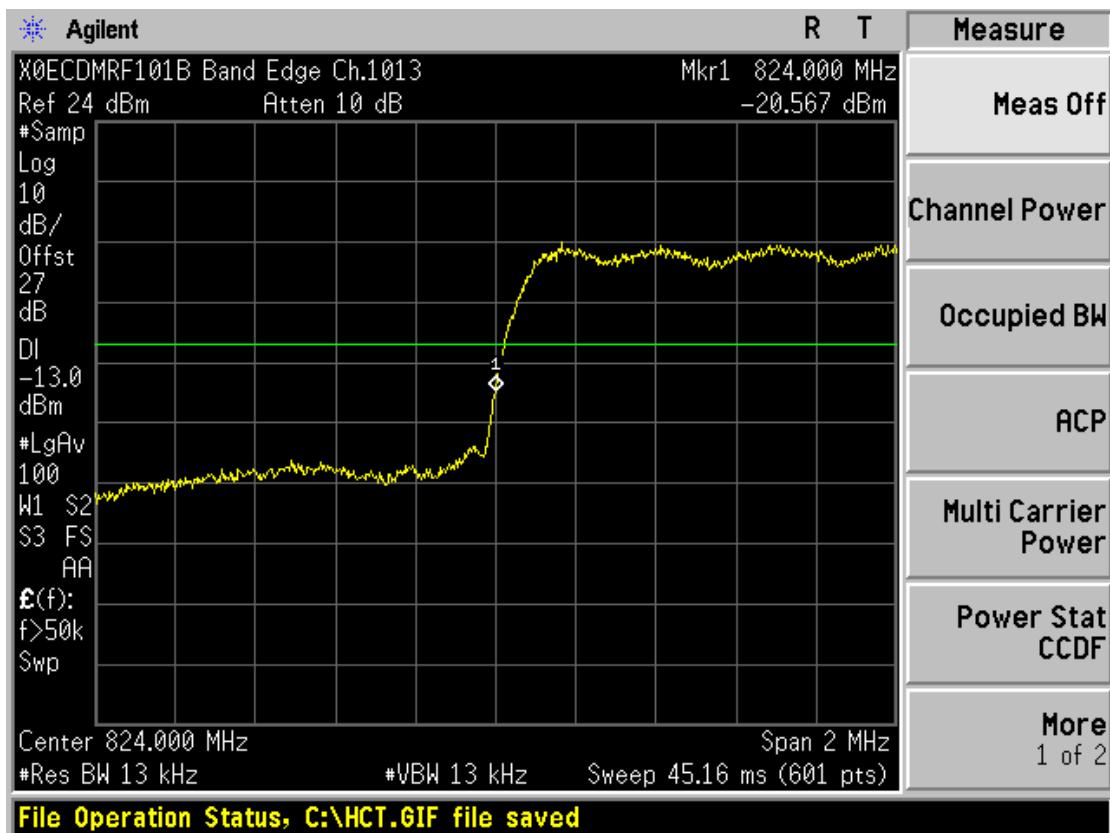
■ PCS CDMA MODE (1175 CH.) Occupied Bandwidth



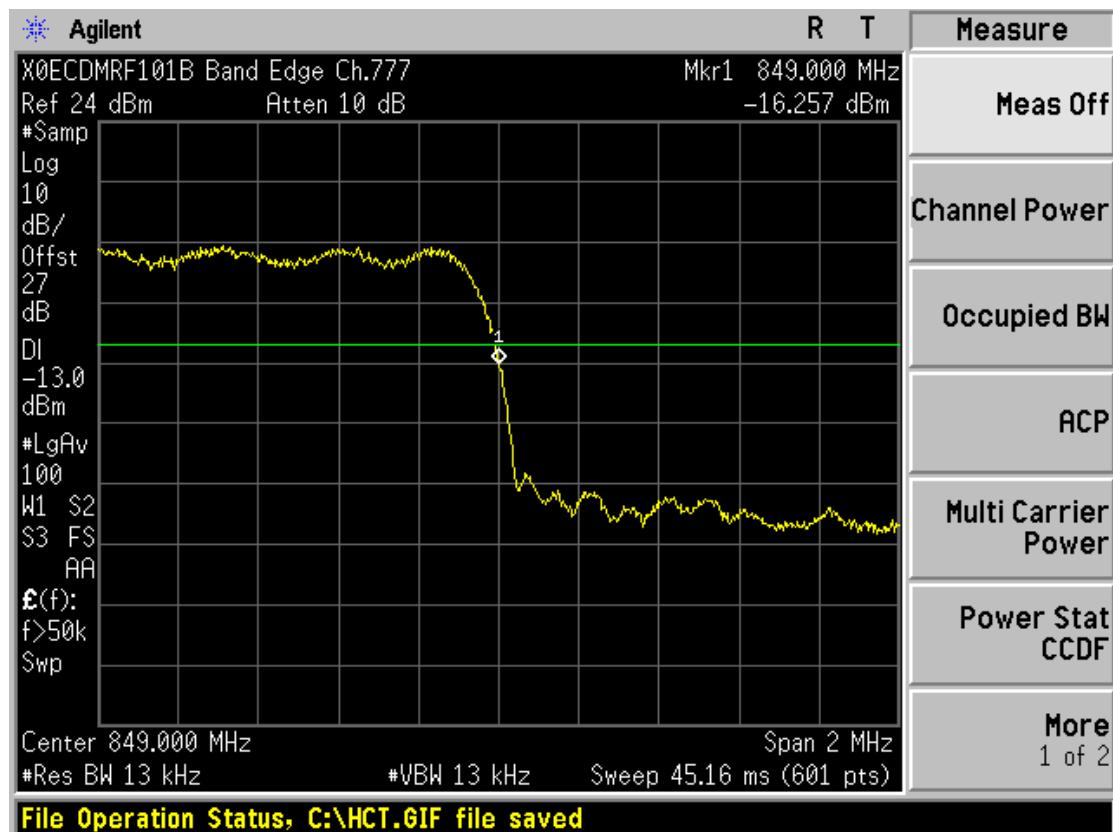
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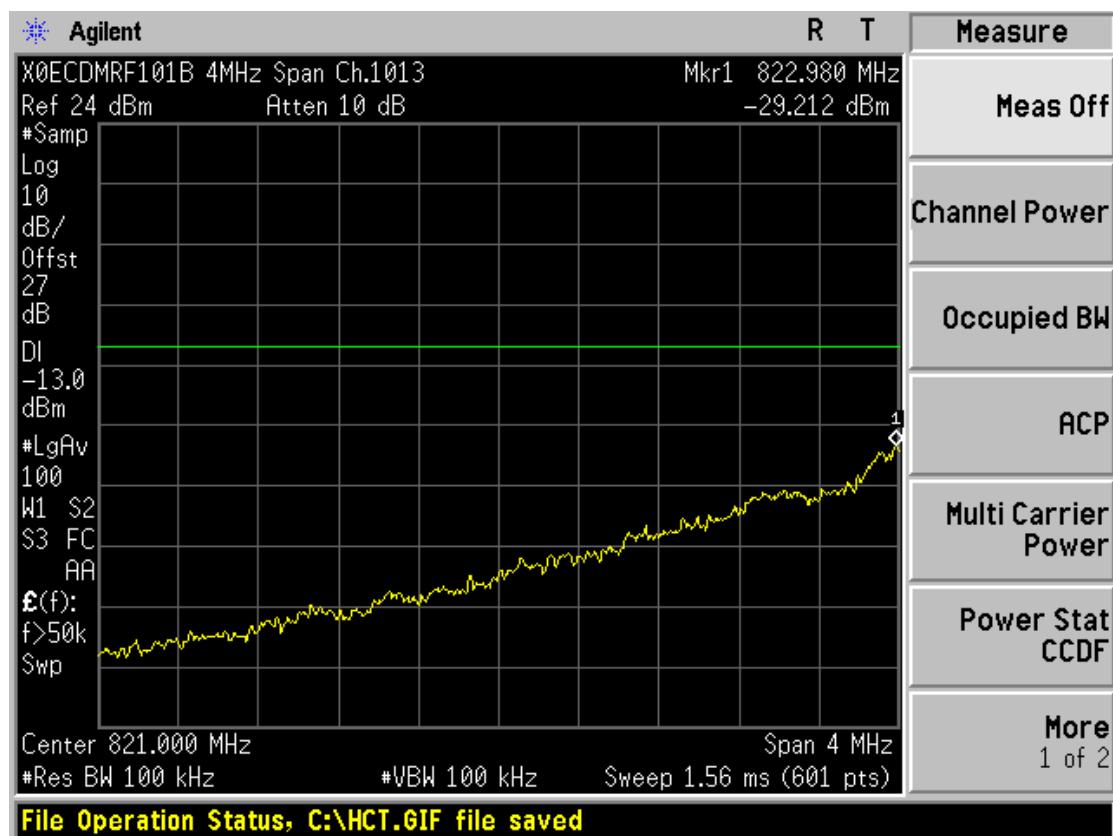
■ CDMA MODE (1013 CH.) Band Edge



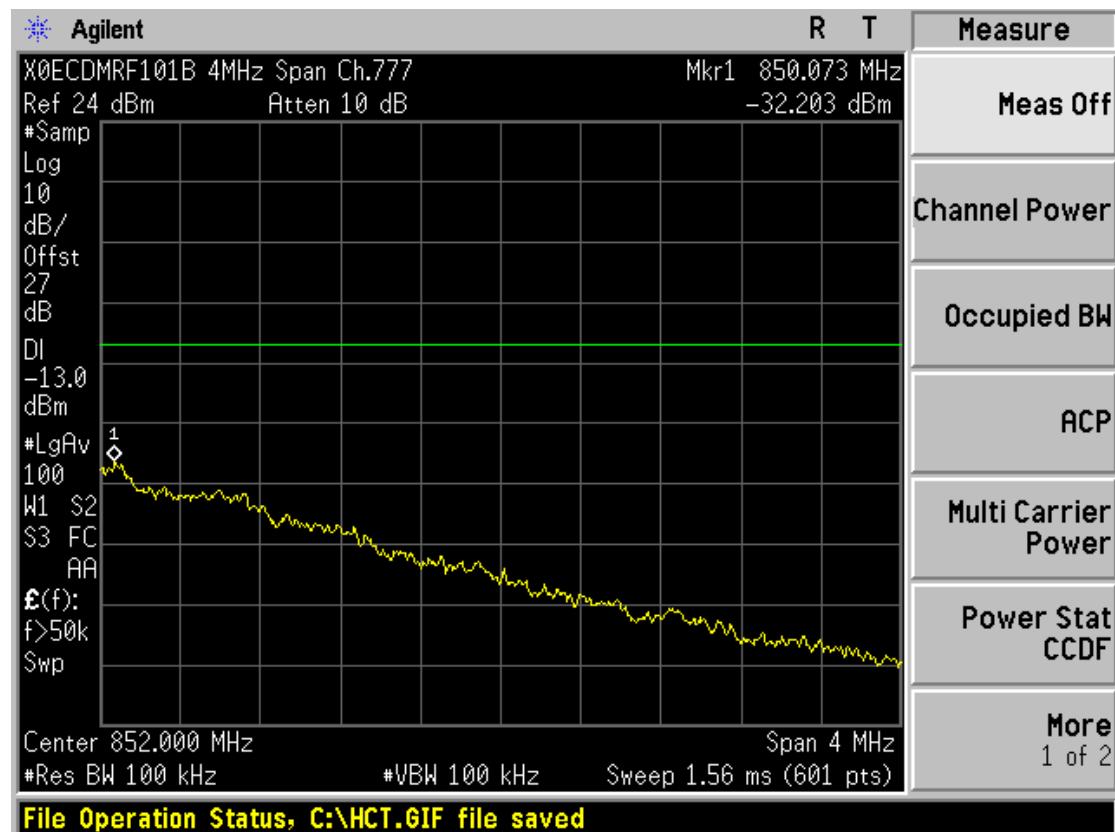
■ CDMA MODE (777 CH.) Band Edge



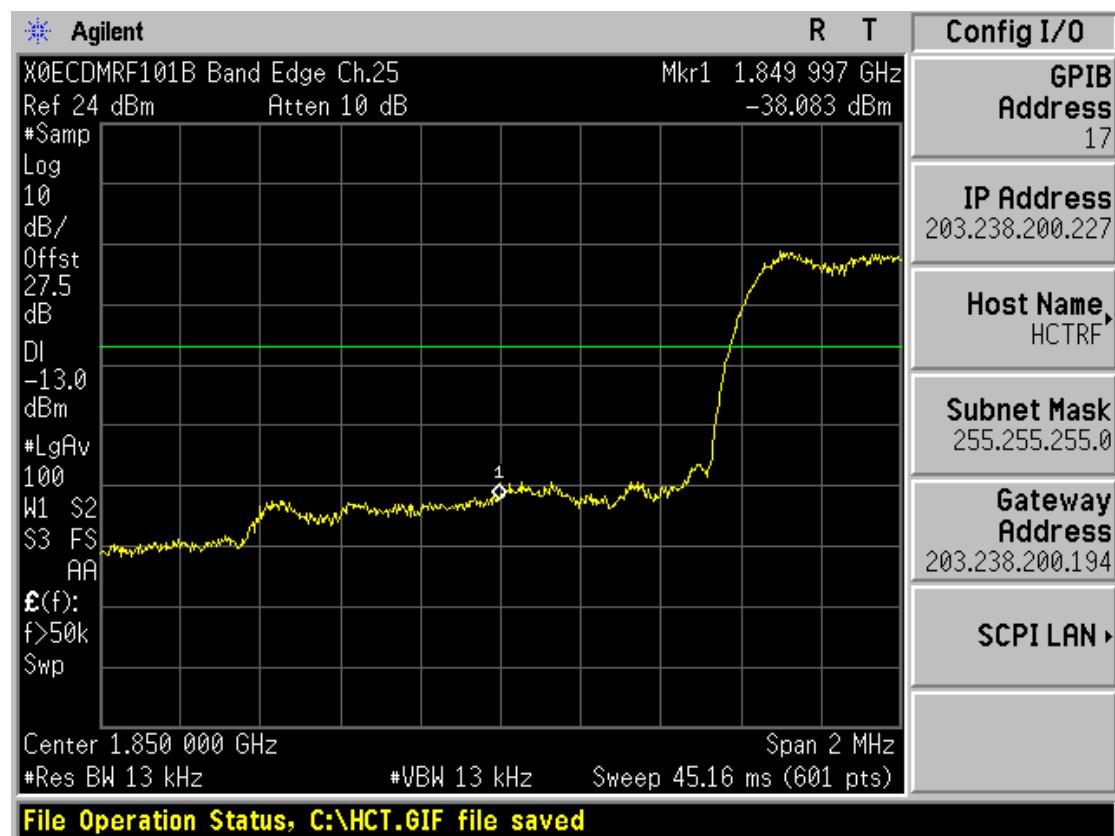
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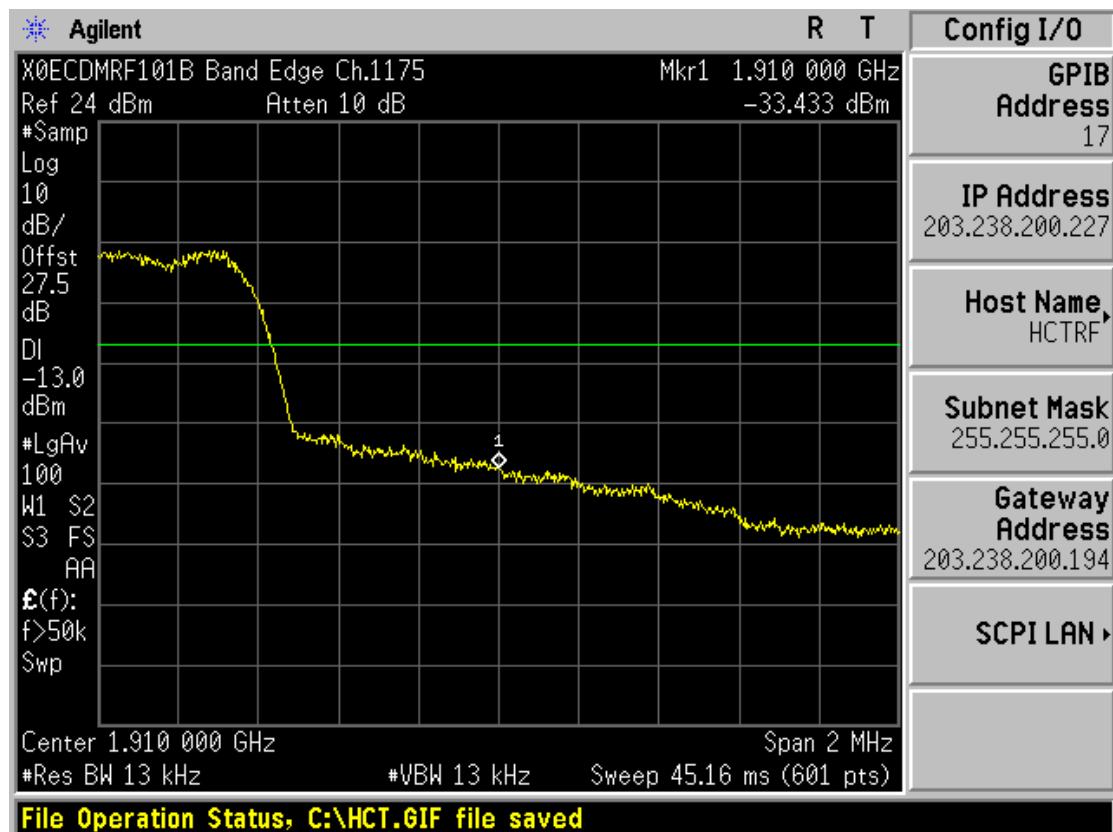
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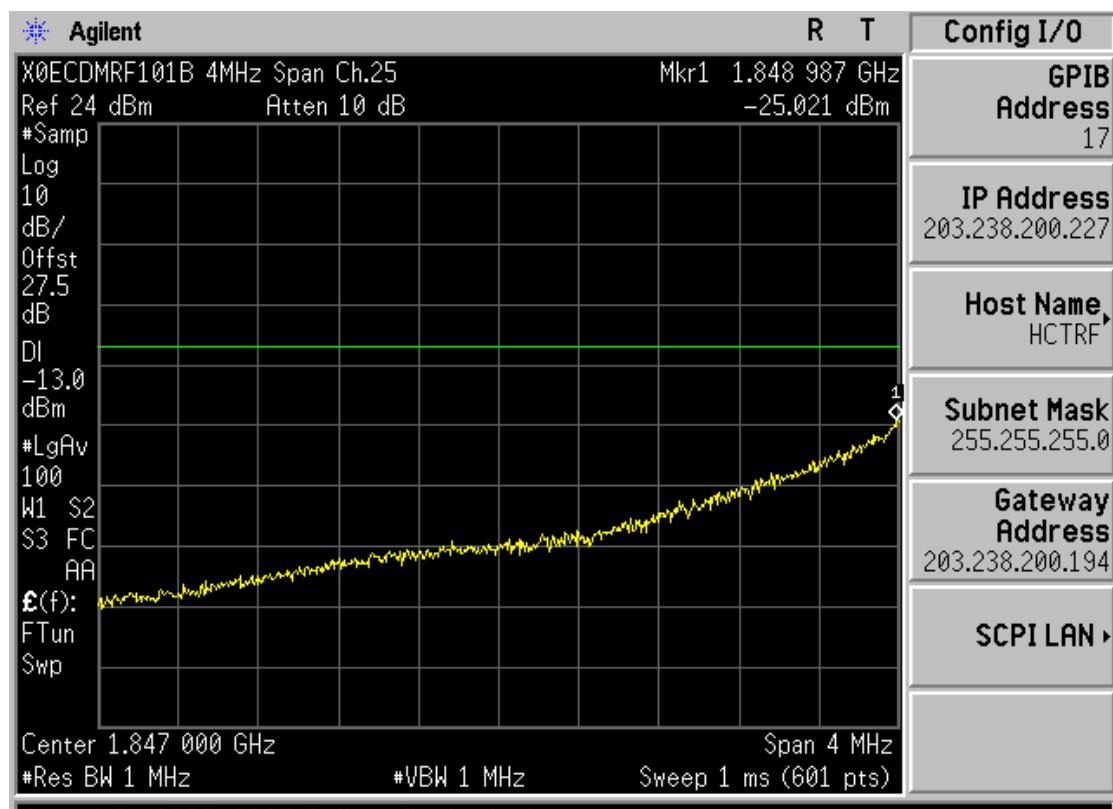
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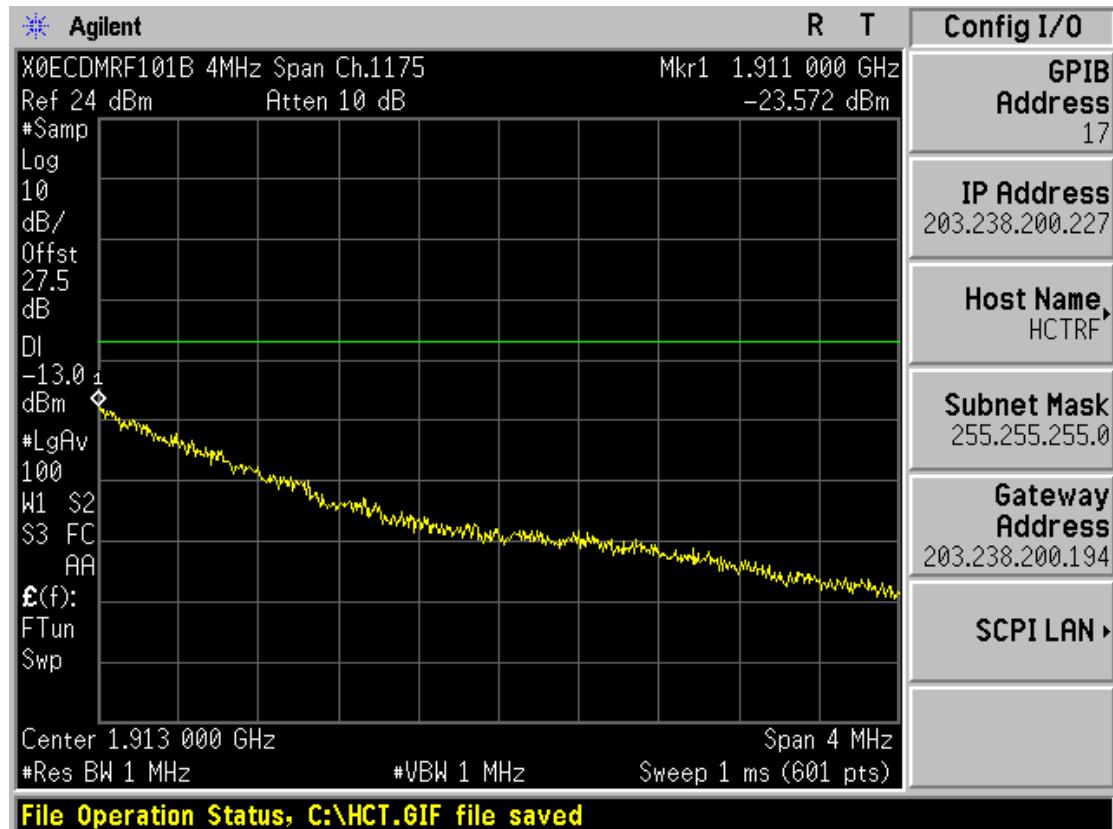
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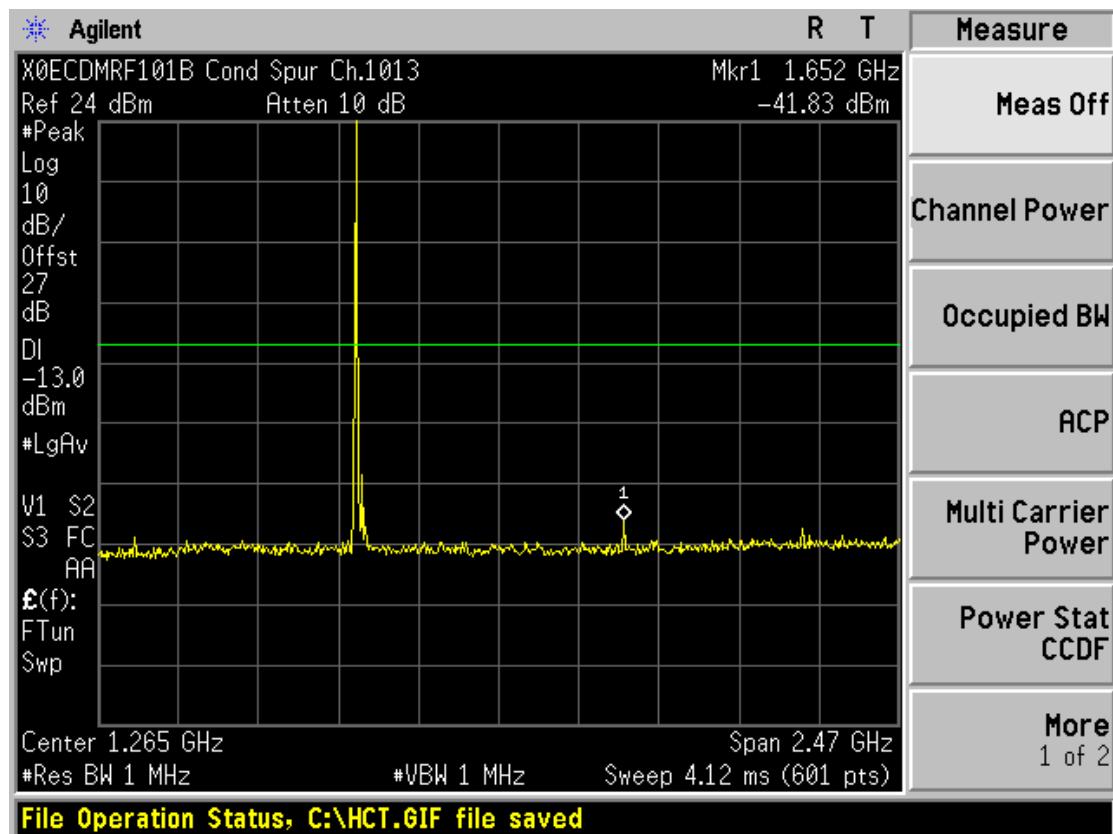
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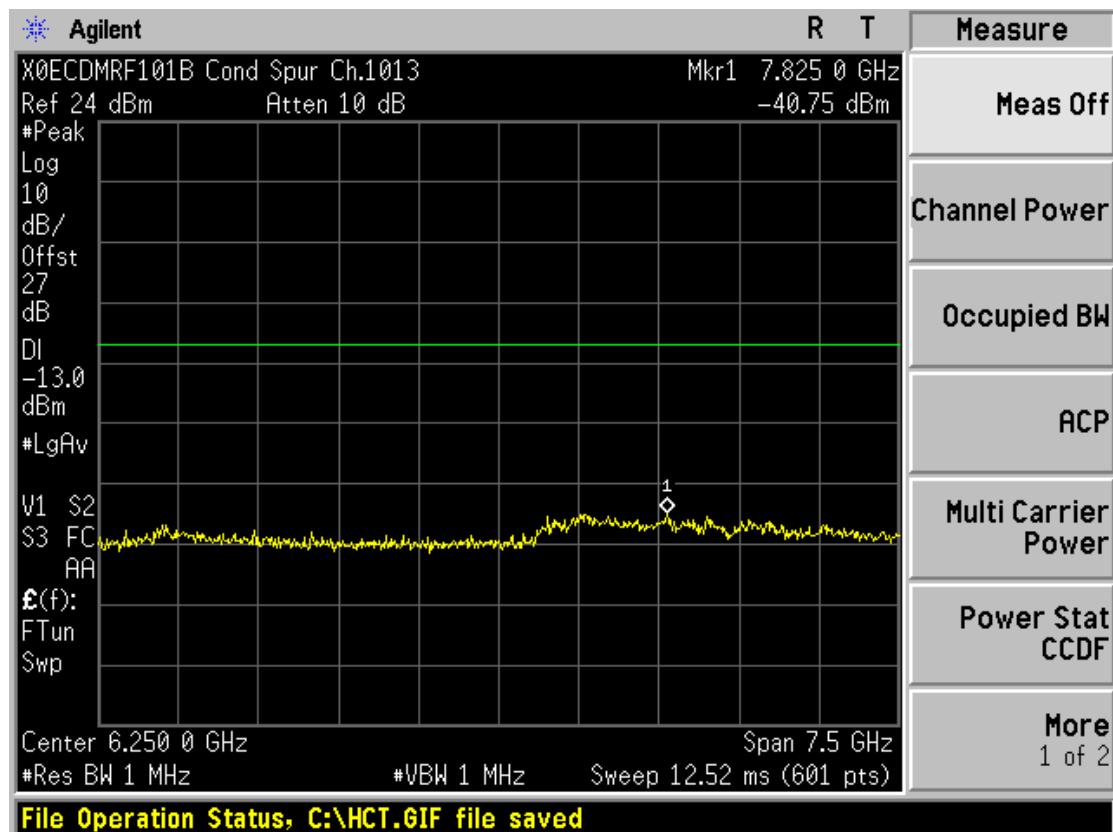
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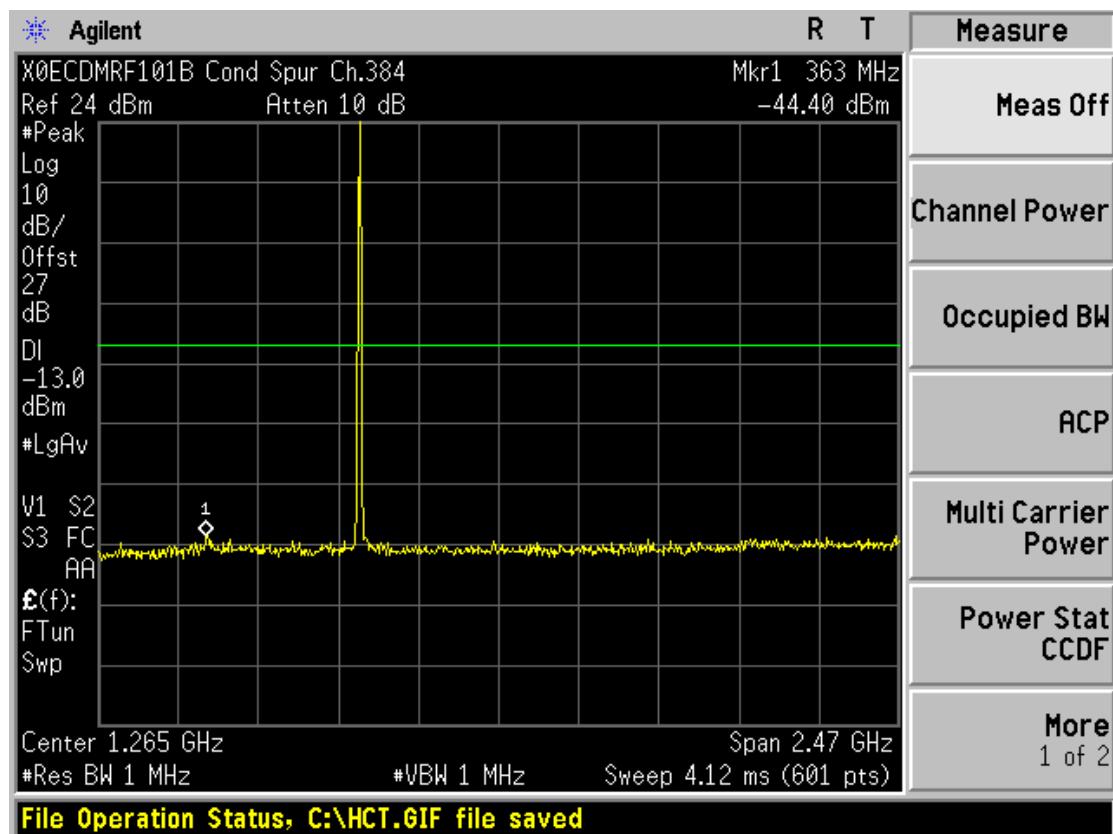
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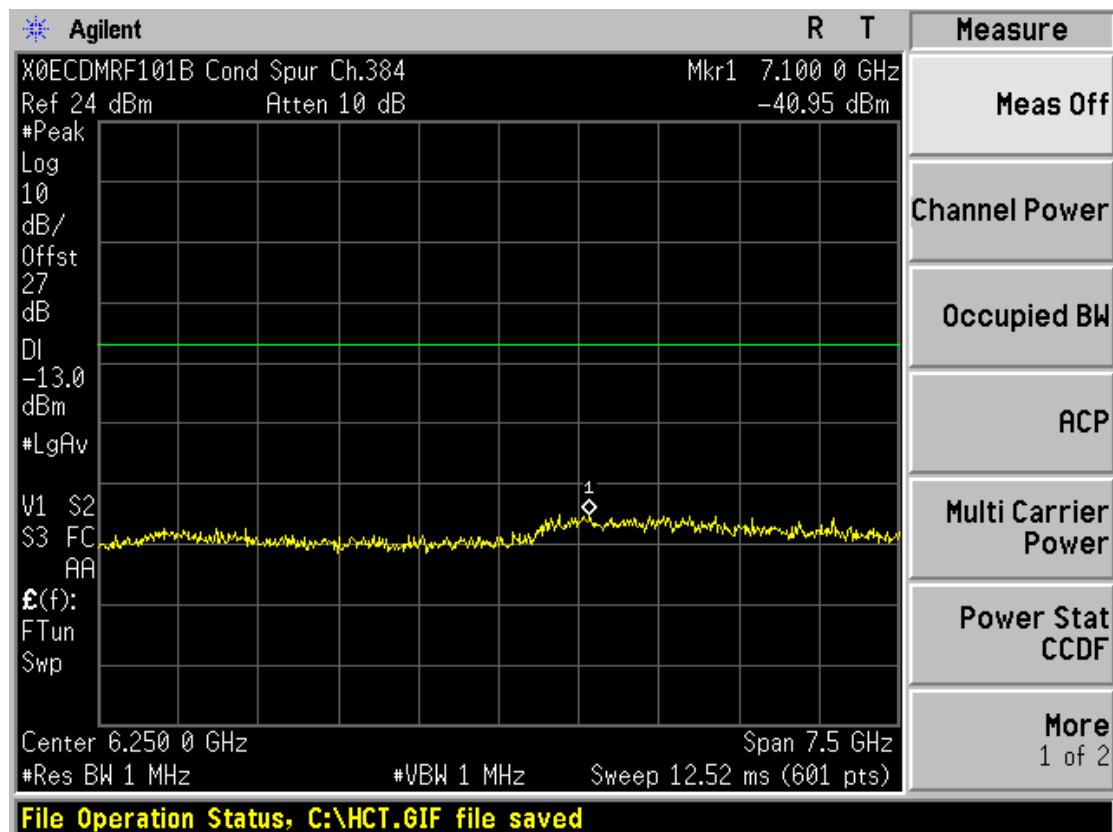
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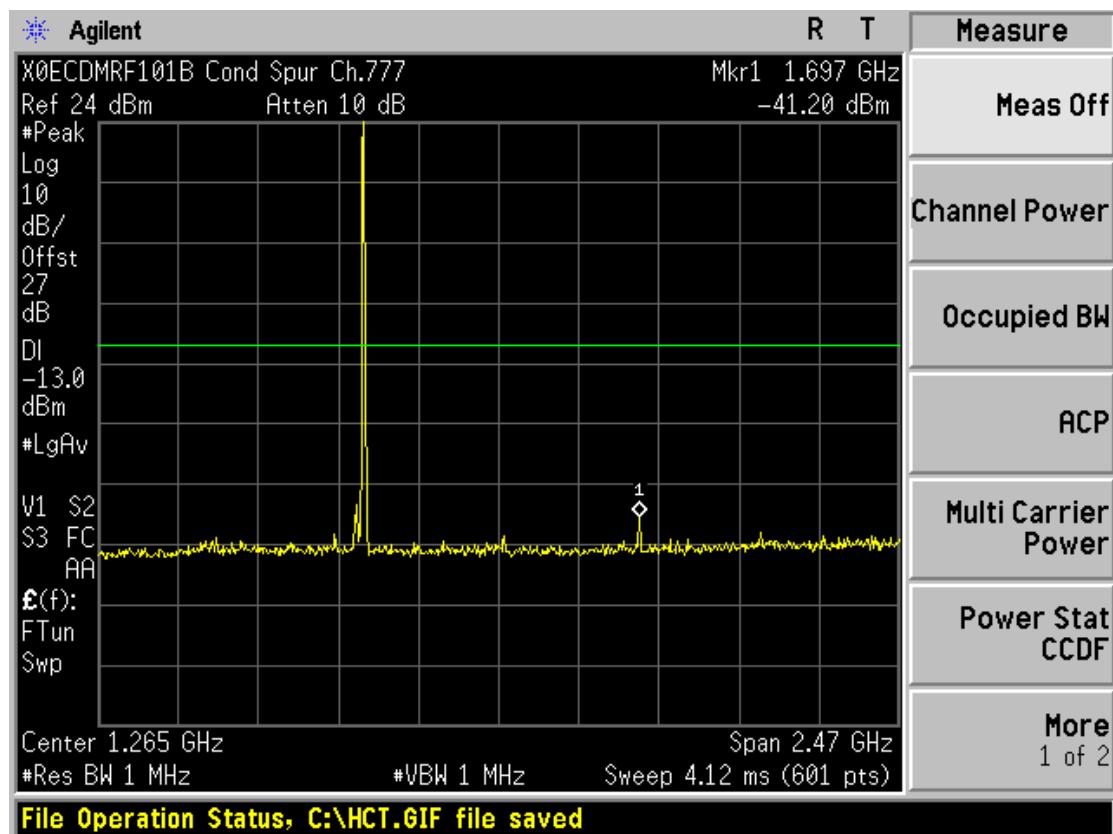
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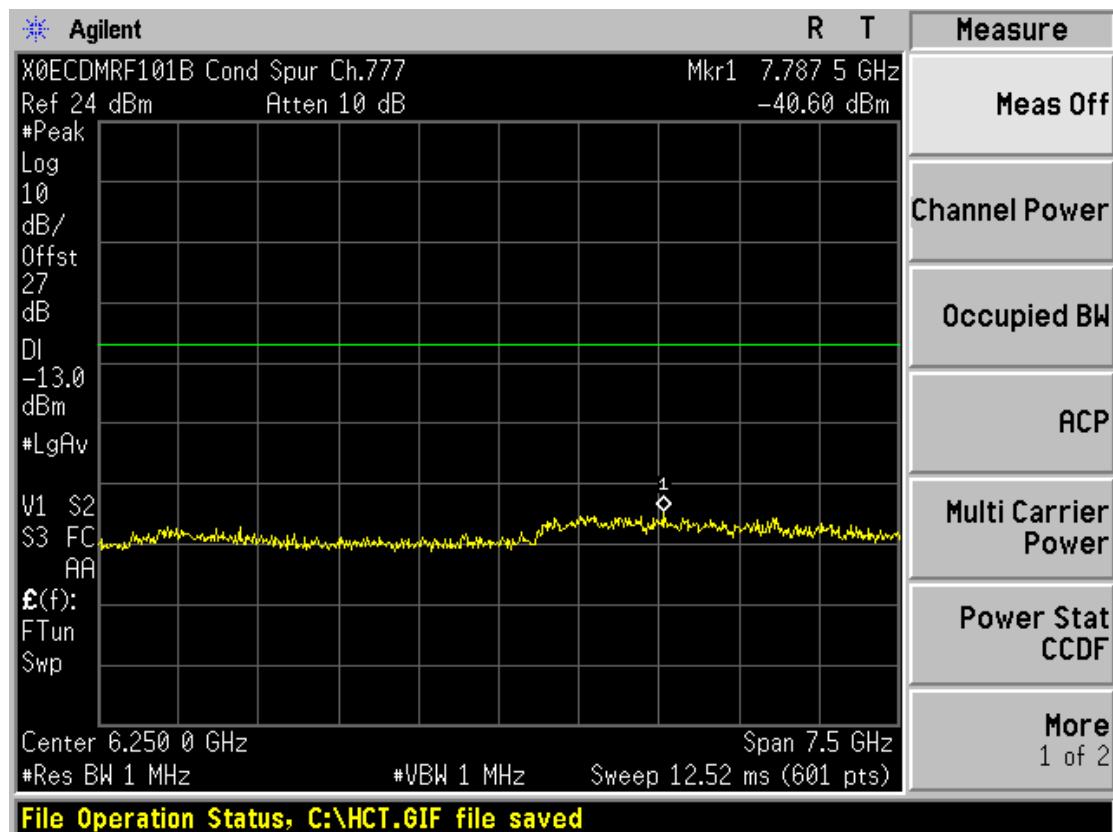
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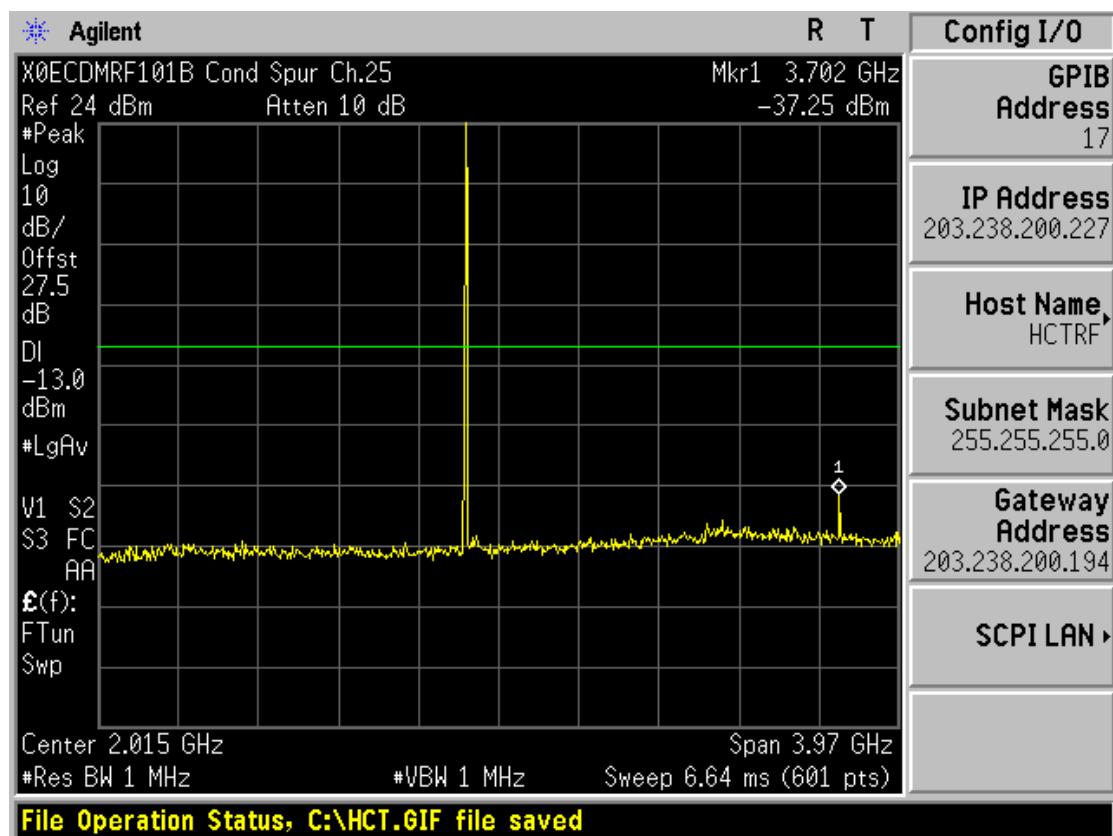
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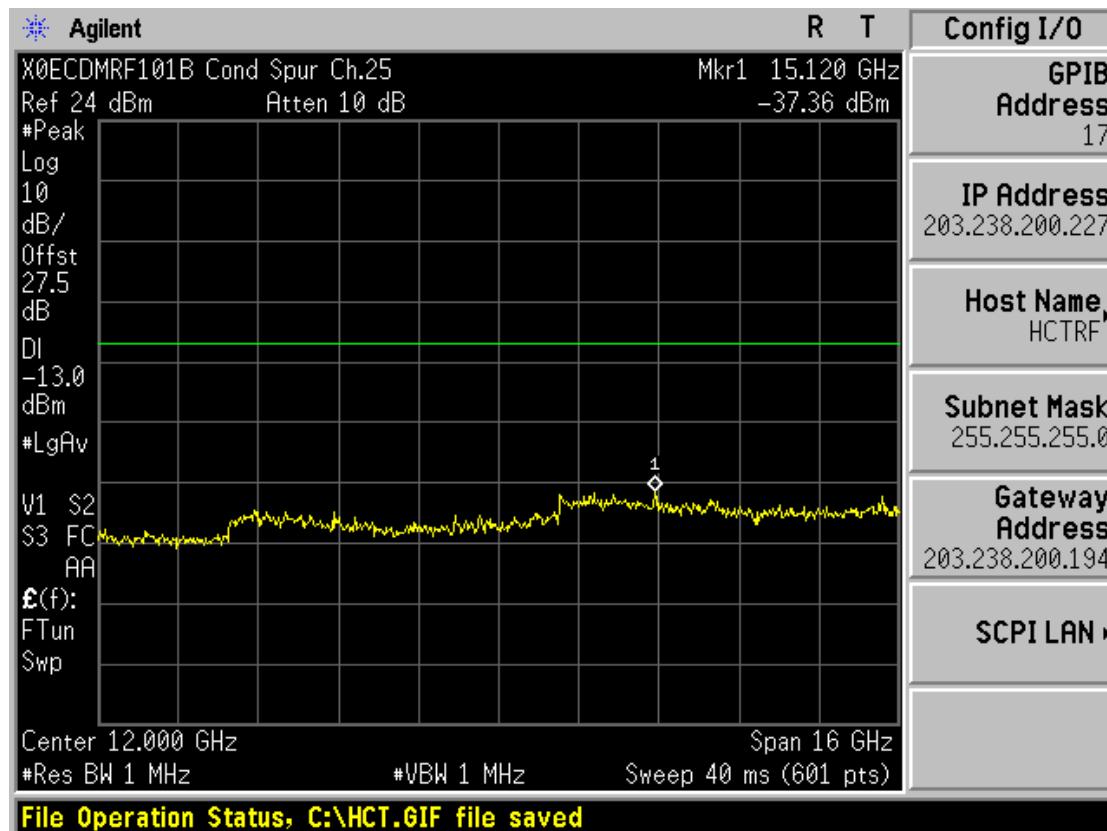
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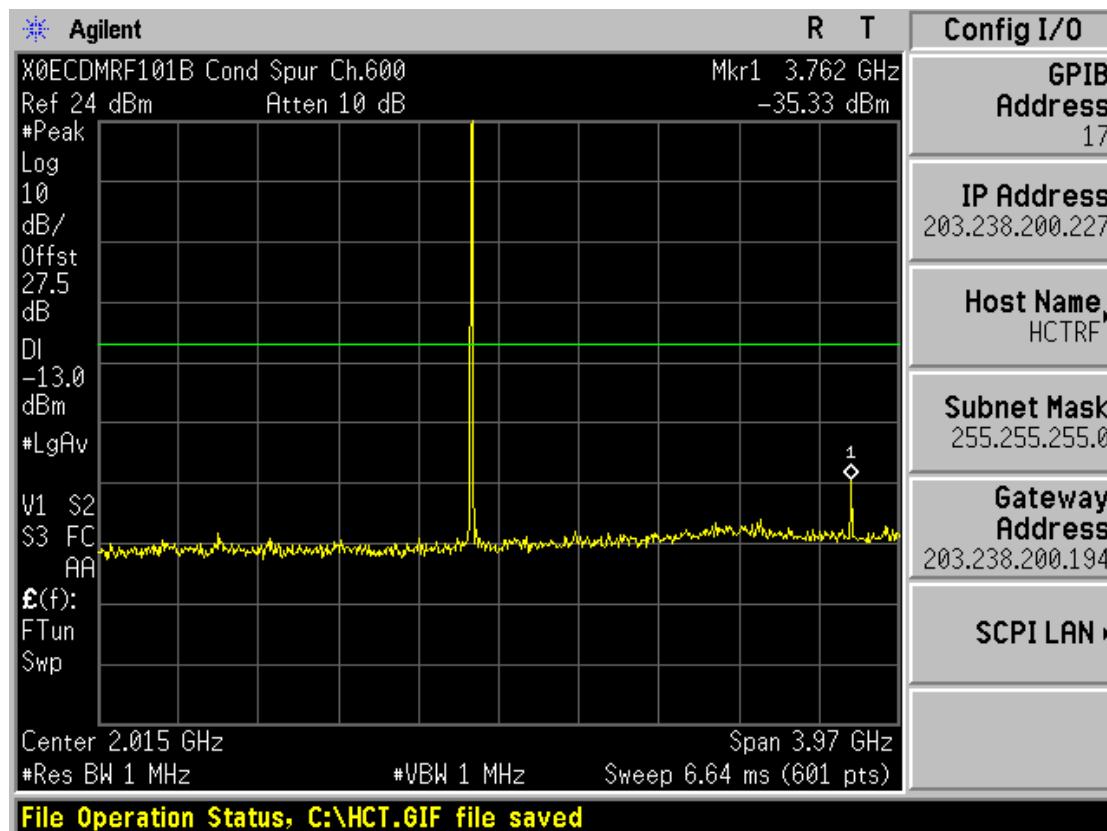
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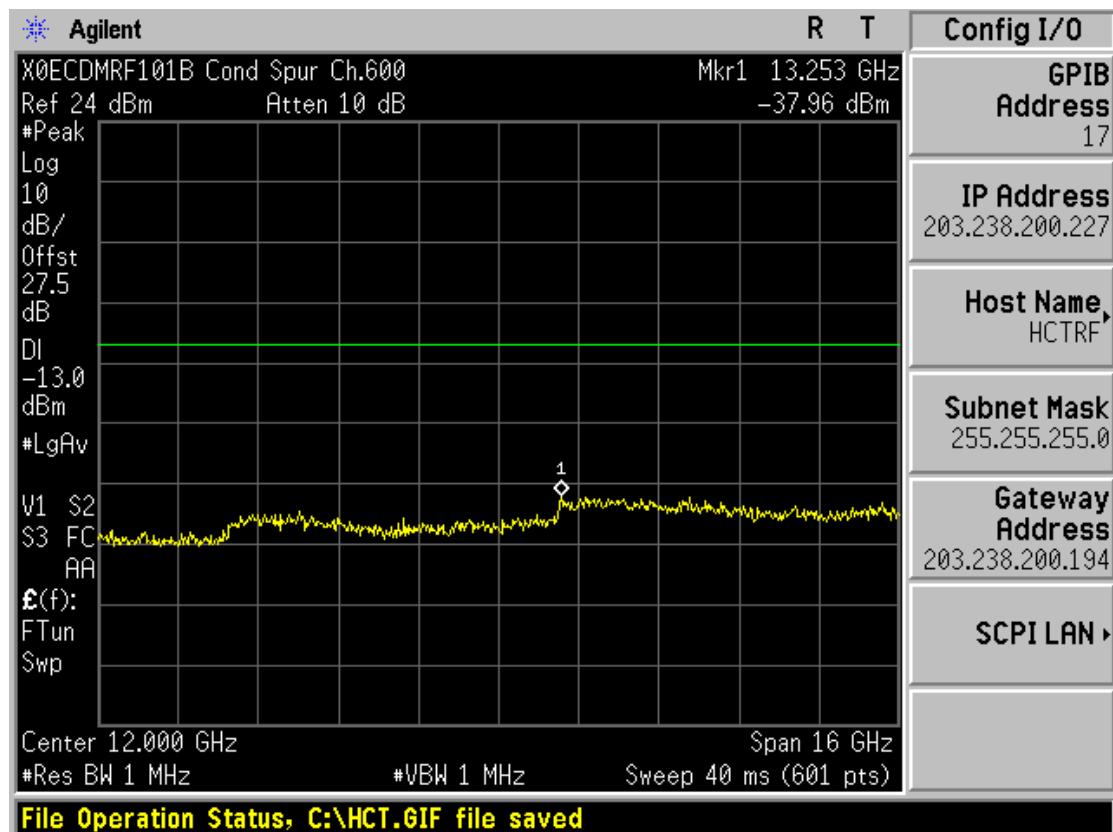
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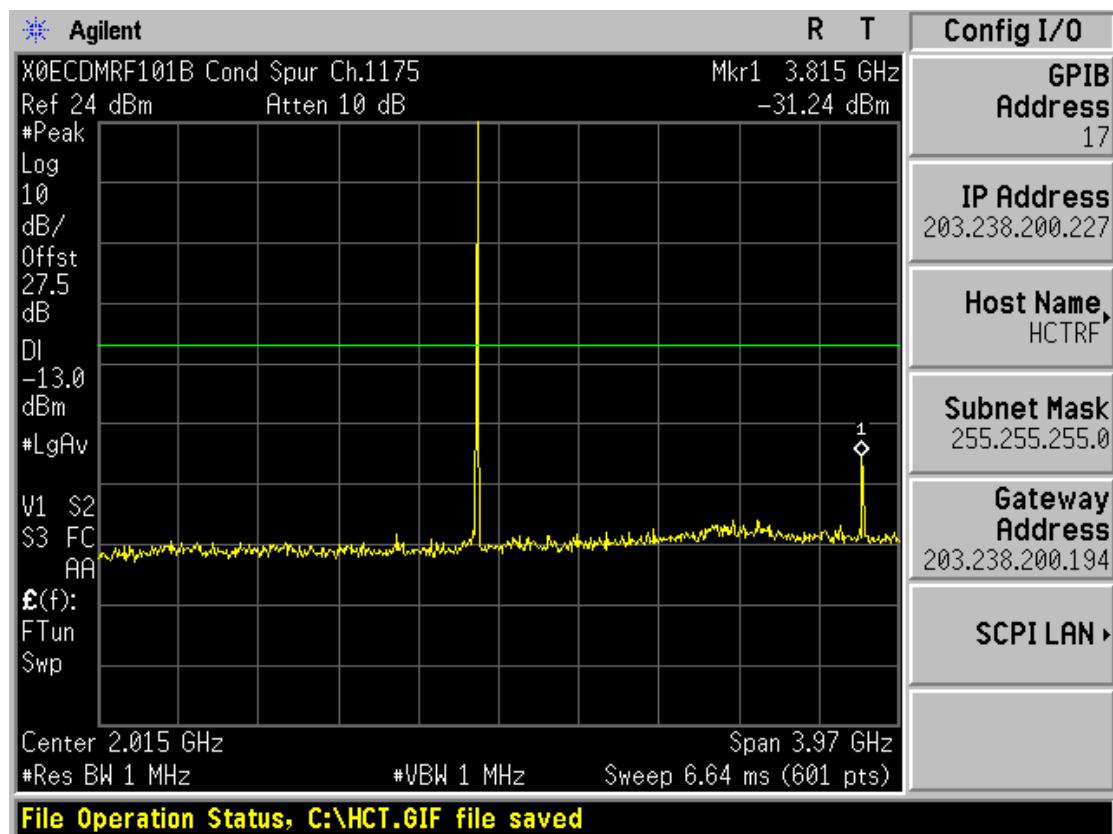
■ PCS CDMA MODE (600 CH.) Conducted Spurious Emissions - 1



■ PCS CDMA MODE (600 CH.) Conducted Spurious Emissions - 2

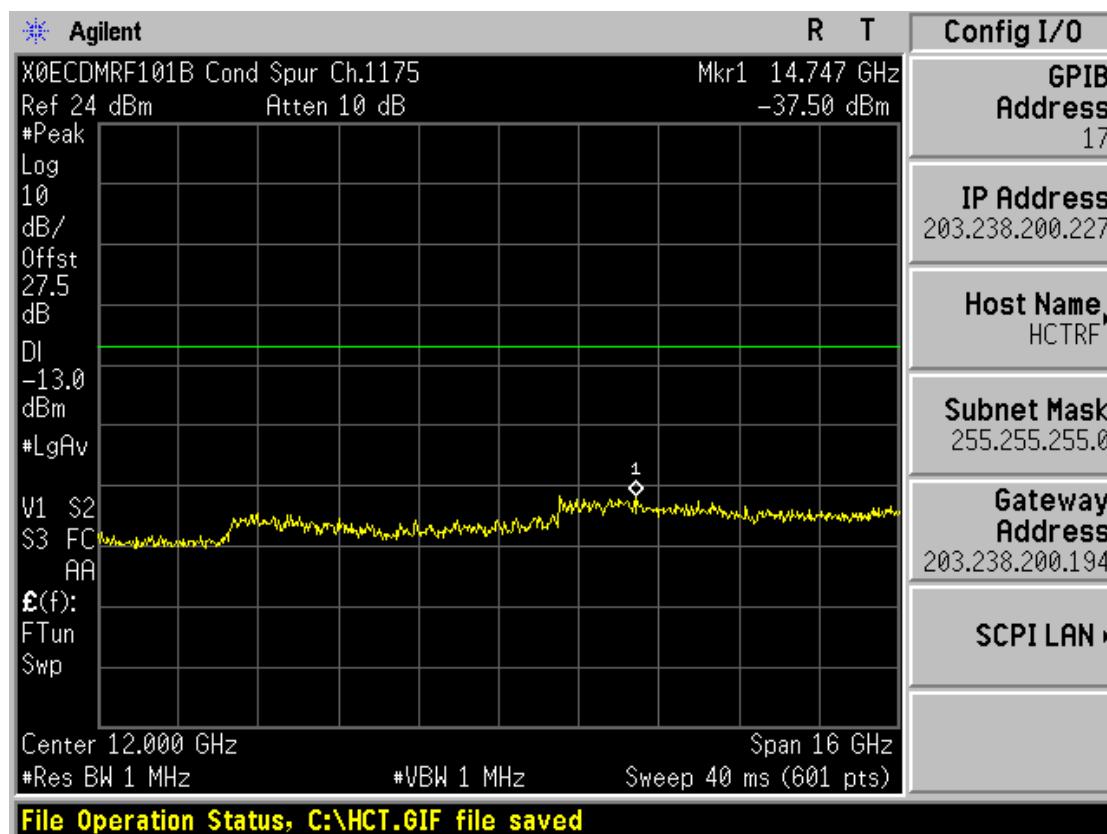


■ PCS CDMA MODE (1175 CH.) Conducted Spurious Emissions - 1



FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 36 of 37

■ PCS CDMA MODE (1175 CH.) Conducted Spurious Emissions - 2



FCC CERTIFICATION REPORT				www.hct.co.kr
Test Report No. HCTR1008FR03-2	Test Dates: August 16, 2010	EUT Type: Dual Band CDMA 1x / GPS(Module)	FCC ID: XOECDMRF101B	Page 37 of 37