



HCT CO., LTD.

Product Compliance Division

TEL : +82 31 639 8518 FAX : +82 31 639 8535

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name:

LG Electronics, Inc.

Address:

60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023,
Korea

Date of Issue:

December 28, 2009

Location:

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

Test Report No.: HCTR0912FR09-1

HCT FRN: 0005866421

IC Recognition No.: IC 5944A-1

FCC ID : BEJLDU810

APPLICANT : LG Electronics, Inc.

Model(s):

LDU-810

Additional Model(s):

HDM-2100

EUT Type:

835 CDMA/EVDO USB Modem

Tx Frequency:

824.70 — 848.31 MHz (CDMA)

Rx Frequency:

869.70 — 893.31 MHz (CDMA)

Max. RF Output Power:

0.222 W ERP CDMA (23.47 dBm) / 0.203 W ERP CDMA EVDO (23.07 dBm)

Emission Designator(s):

1M28F9W (CDMA) / 1M27F9W (CDMA EVDO)

FCC Classification:

Licensed Non-Broadcast Station Transmitter(TNB)

FCC Rule Part(s):

§22, §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)

Report prepared by

: Jong Seok Lee

Test engineer of RF Team

Approved by

: Sang Jun Lee

Manager of RF Team

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: LG Electronics, Inc.
Address: 60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea
Contact Person: Name: Bong Hyo Han
Phone #: TEL :+82-2-2033-1160 / FAX : +82-2-2033-1222
FCC ID: BEJLDU810
Application Type: Certification
FCC Classification: Licensed Non-Broadcast Station Transmitter(TNB)
FCC Rule Part(s): §22, §2
EUT Type: 835 CDMA/EVDO USB Modem
Model(s): LDU-810
Additional Model(s): HDM-2100
Tx Frequency: 824.70 — 848.31 MHz (CDMA)
Rx Frequency: 869.70 — 893.31 MHz (CDMA)
Max. RF Output Power: 0.222 W ERP CDMA (23.47 dBm) / 0.203 W ERP CDMA EVDO (23.07 dBm)
Emission Designator(s): 1M28F9W (CDMA) / 1M27F9W (CDMA EVDO)
Antenna Specification Manufacturer: E.M.W. Antenna Co., Ltd.
Antenna type: Internal Antenna
Peak Gain: 0.32 dBi
Date(s) of Tests: December 15, 2009 ~ December 21, 2009

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2. INTRODUCTION

2.1. EUT DESCRIPTION

The LDU-810 835 CDMA/EVDO USB Modem consists of Cellular CDMA and EVDO Rev.0.

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

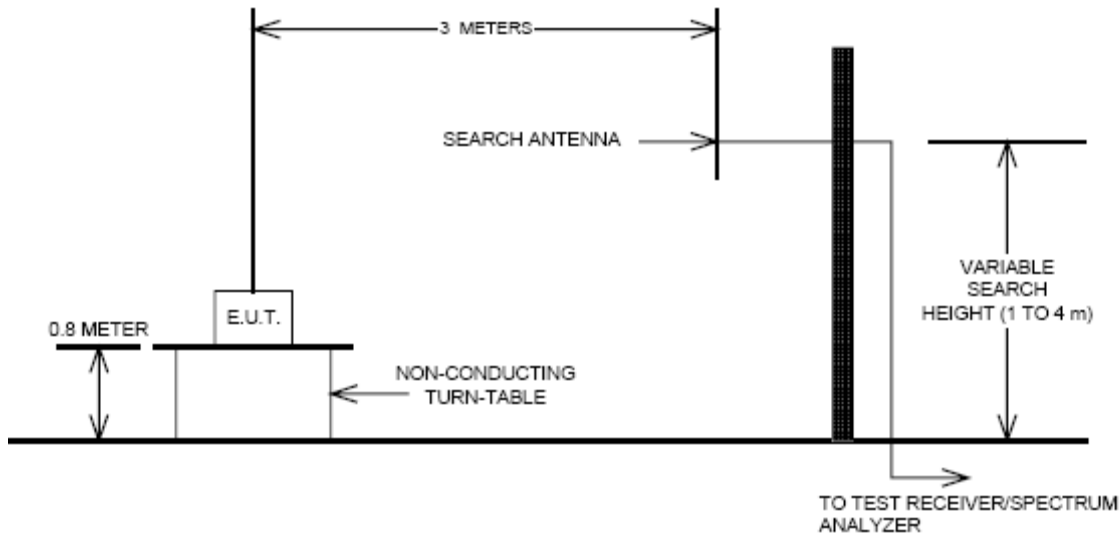
The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description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

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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 RC1/SO02, with 'All Up' power control bits.



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.

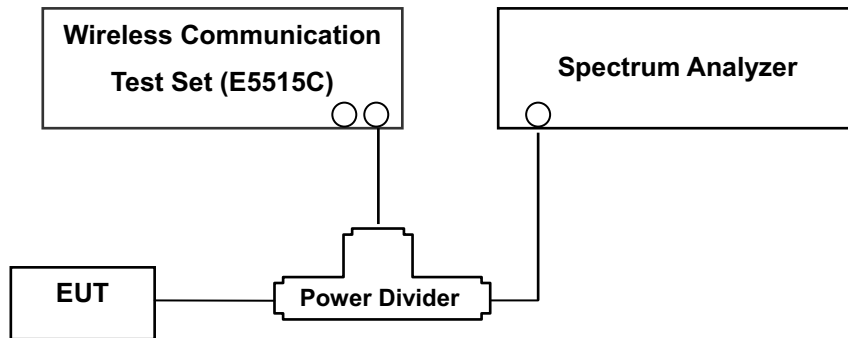
Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC1/SO02, with 'All Up' power control bits.

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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 RC1/SO02, with 'All Up' power control bits.

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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.

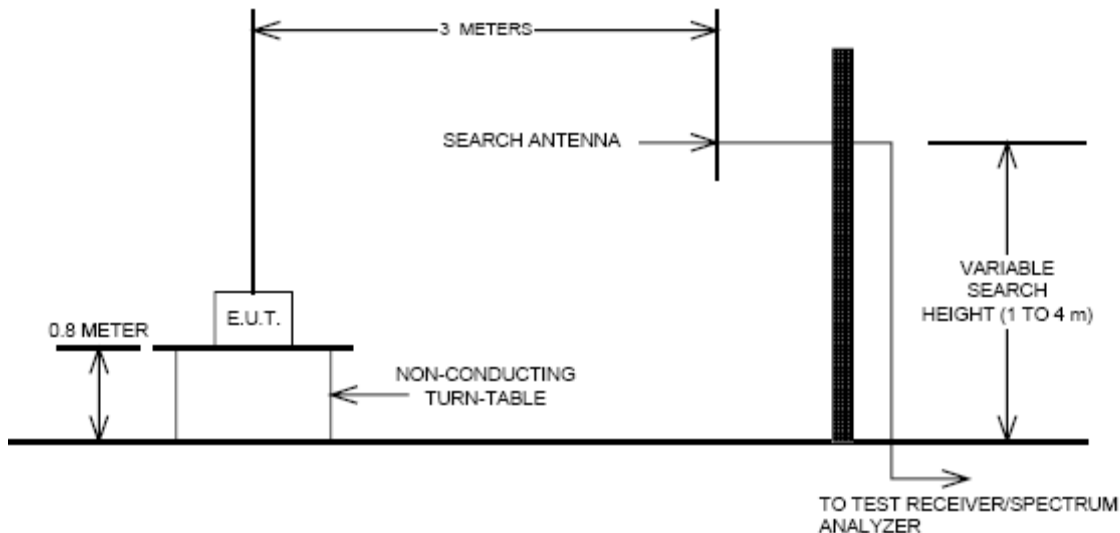
- Band Edge Requirement : In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC1/SO02, with 'All Up' power control bits.

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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 × 1.0 m × 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.

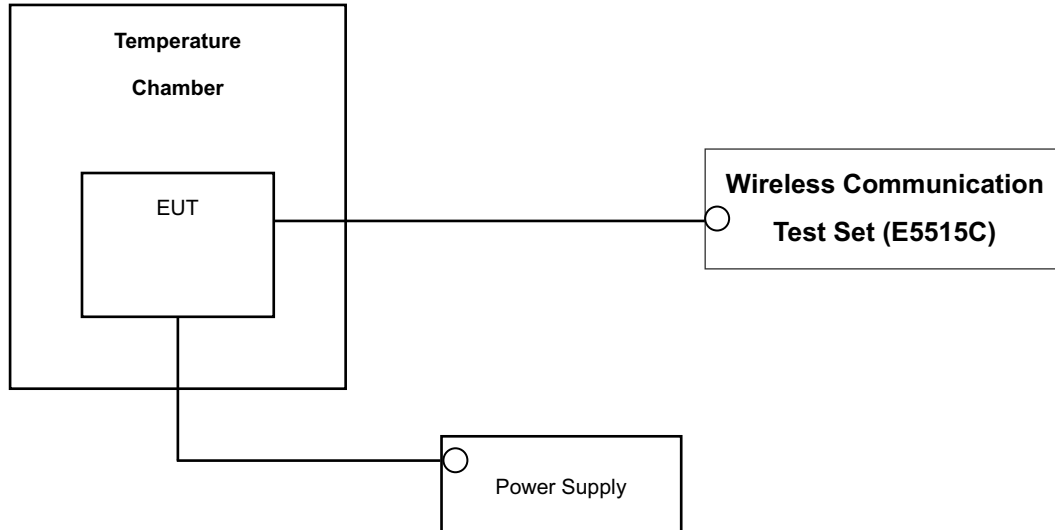
Note : This device was tested under all R.C.s and S.O.s and worst case is reported with RC1/SO02, with 'All Up' power control bits.

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3.6 Frequency stability / variation of ambient temperature

Test Set-up



* Nominal Operating Voltage

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 $\pm 0.00025\%$ (± 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 RC1/SO02, with ‘All Up’ power control bits.

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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	01/21/2010
Agilent	E9327A/ Power Sensor	MY4442009	Annual	07/28/2010
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/10/2010
MITEQ	AMF-60-0010 1800-35-20P / AMP	1200937	Annual	05/20/2010
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	06/29/2010
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	06/29/2010
Agilent	775D/ Dual Directional Coupler	12922	Annual	12/24/2009
Agilent	11636B/ Power Divider	11377	Annual	12/24/2009
Digital	EP-3010/ Power Supply	3110117	Annual	01/07/2010
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	12/31/2009
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	Biennial	03/26/2010
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	12/23/2009



5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 22.917(a)	Occupied Bandwidth	N/A	CONDUCTED	PASS
2.1051, 22.917(a)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 + 10log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions		PASS
2.1046	Conducted Output Power	N/A		PASS
2.1055, 22.355	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
				PASS
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP	RADIATED	PASS
2.1053, 22.917(a)	Radiated Spurious and Harmonic Emissions	< 43 + 10log ₁₀ (P[Watts]) for all out-of band emissions		PASS



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

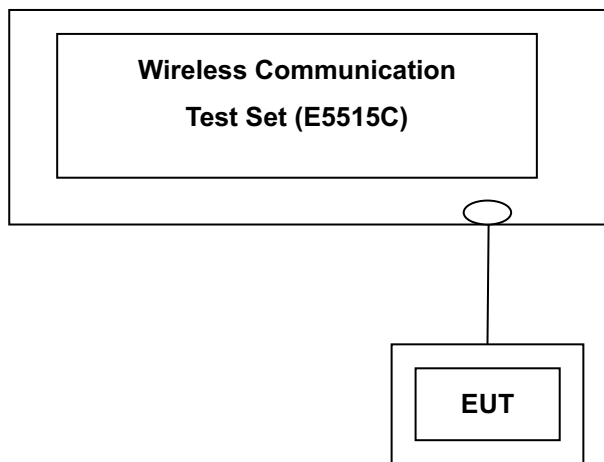
W = Combination (Audio/Data)

7. TEST DATA

This EUT is not supported a USB cable.

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	1xEVDO Rev.O	1xEVDO Rev.O
		RC1/1 (dBm)	RC3/3 (dBm)	RC1/1 (dBm)	RC3/3 (dBm)	RC3/3 (dBm)	(FTAP)	(RTAP)
CDMA	1013	24.78	24.72	24.67	24.69	24.63	24.47	24.57
	384	24.38	24.38	24.29	24.40	24.36	24.34	24.53
	777	24.50	24.52	24.49	24.51	24.50	24.46	24.58

(Maximum Conducted Output Powers)

Note : Detecting mode is average.



7.2 Occupied Bandwidth

Band	Channel	Frequency(MHz)	Data (MHz)
CDMA	1013	824.70	1.2735
	384	836.52	1.2765
	777	848.31	1.2730
CDMA EVDO	384	836.52	1.2734

- Plots of the EUT's Occupied Bandwidth are shown Page 20 ~ 21.

7.3 Conducted Spurious Emissions

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
CDMA	1013	6.9500	-41.11
	384	7.7750	-40.38
	777	7.7375	-40.37

- Plots of the EUT's Conducted Spurious Emissions are shown Page 26 ~ 28.

7.3.1 Band Edge

- Plots of the EUT's Band Edge are shown Page 22 ~ 25.



7.4 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	-12.88	32.95	-8.31	1.17	H	0.22	23.47
	384	836.52	-14.40	32.09	-8.22	1.19	H	0.19	22.68
	777	848.31	-15.53	31.60	-8.13	1.20	H	0.17	22.27
EVDO	1013	824.70	-13.56	32.27	-8.31	1.17	H	0.19	22.79
	384	836.52	-14.01	32.48	-8.22	1.19	H	0.20	23.07
	777	848.31	-15.52	31.61	-8.13	1.20	H	0.17	22.28

Note: This unit was tested with a notebook computer.

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 z plane in CDMA mode. Also worst case of detecting Antenna is in horizontal polarization in CDMA mode.

The EVDO mode testing were performed using RTAP on Rev.0 because RTAP on Rev.0 is highest power in EVDO mode.



7.5 Radiated Spurious Emissions

7.5.1 Radiated Spurious Emissions

- MEASURED OUTPUT POWER: 23.47 dBm = 0.222 W
- MODULATION SIGNAL: CDMA EVDO
- DISTANCE: 3 meters
- LIMIT: $-(43 + 10 \log_{10}(W)) =$ - 36.47 dBc

Ch.	Freq.(MHz)	Measured Level [dBm]	Ant. Gain	Substitute Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
1013	1,649.40	-55.30	7.09	-65.83	1.73	H	-60.47	-83.94
	2,474.10	-58.33	8.12	-65.44	2.28	V	-59.60	-83.07
	3,298.80	-58.09	9.72	-65.67	2.57	H	-58.52	-81.99
384	1,673.04	-53.57	7.23	-64.33	1.79	H	-58.89	-82.36
	2,509.56	-57.75	8.14	-64.88	2.33	H	-59.07	-82.54
	3,346.08	-57.98	9.99	-66.01	2.66	H	-58.68	-82.15
777	1,696.62	-51.74	7.41	-62.35	1.83	H	-56.77	-80.24
	2,544.93	-58.29	8.21	-65.57	2.34	H	-59.70	-83.17
	3,393.24	-57.85	9.91	-65.48	2.85	H	-58.42	-81.89

- 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.

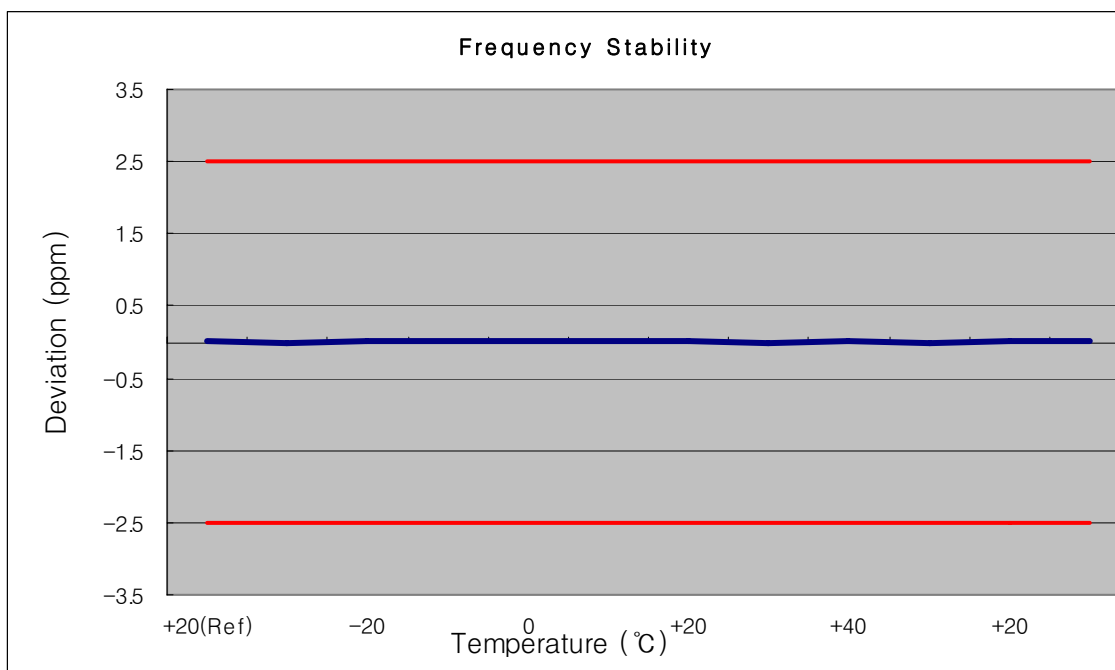


7.6 Frequency stability / variation of ambient temperature

7.6.1 FREQUENCY STABILITY (CDMA)

OPERATING FREQUENCY: 836,520,000 Hz
 CHANNEL: 384
 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)	836 520 002	1.86	0.000 000	0.002
100%		-30	836 519 999	-0.91	0.000 000	-0.001
100%		-20	836 520 002	1.52	0.000 000	0.002
100%		-10	836 520 002	1.70	0.000 000	0.002
100%		0	836 520 002	1.88	0.000 000	0.002
100%		+10	836 520 001	1.37	0.000 000	0.002
100%		+20	836 520 001	1.48	0.000 000	0.002
100%		+30	836 519 998	-2.04	0.000 000	-0.002
100%		+40	836 520 003	3.27	0.000 000	0.004
100%		+50	836 519 992	-7.79	-0.000 001	-0.009
115%	4.255	+20	836 520 002	2.02	0.000 000	0.002
Batt. Endpoint	3.400	+20	836 520 007	6.71	0.000 001	0.008

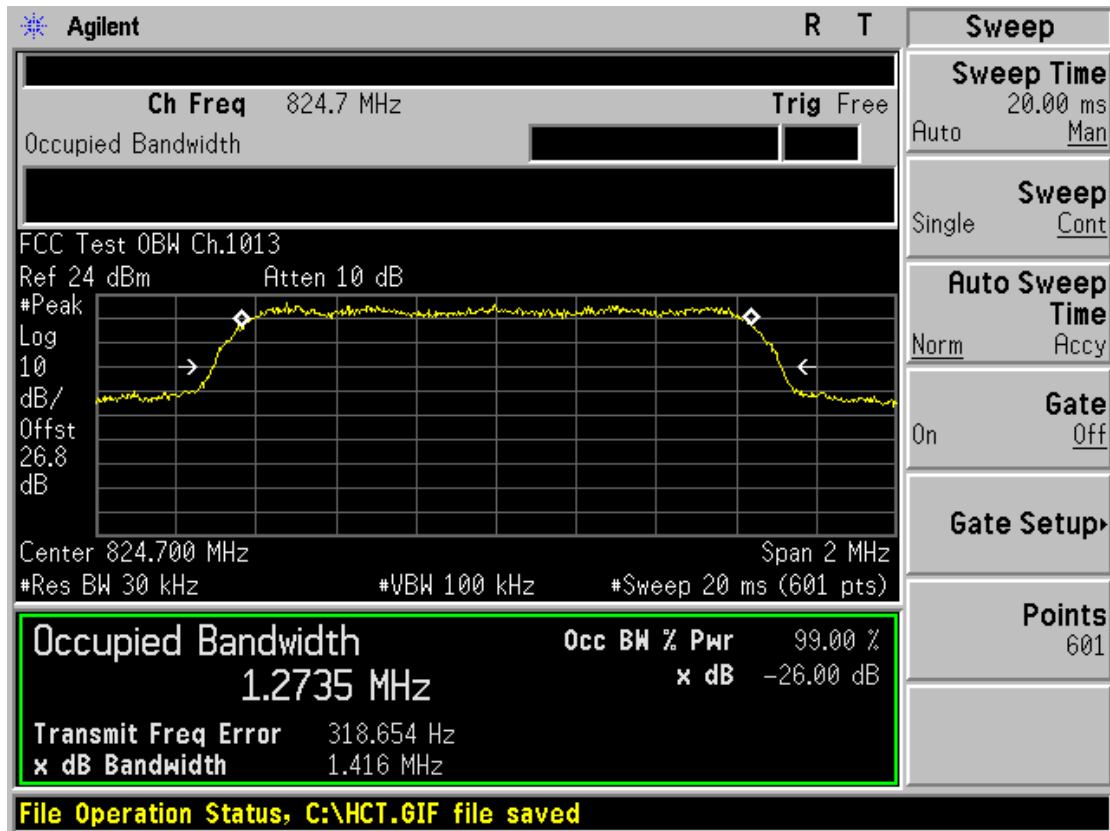




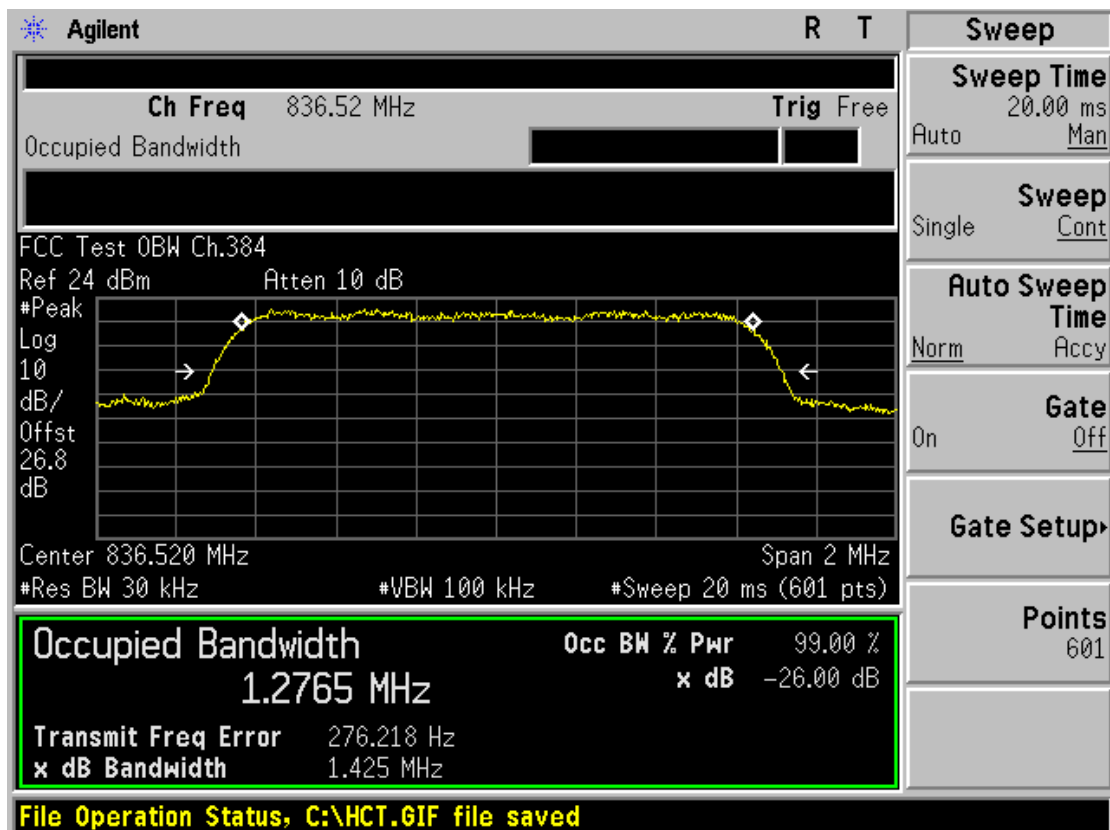
8. TEST PLOTS

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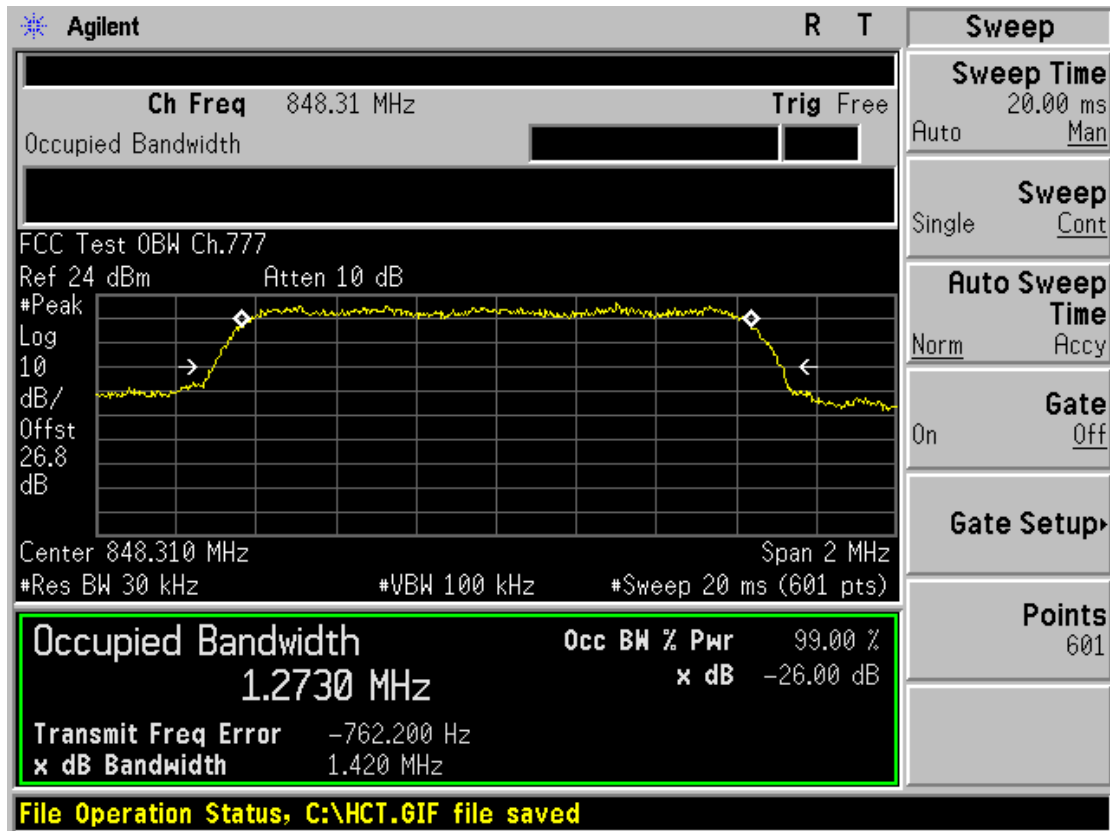
■ CDMA MODE (1013 CH.) Occupied Bandwidth



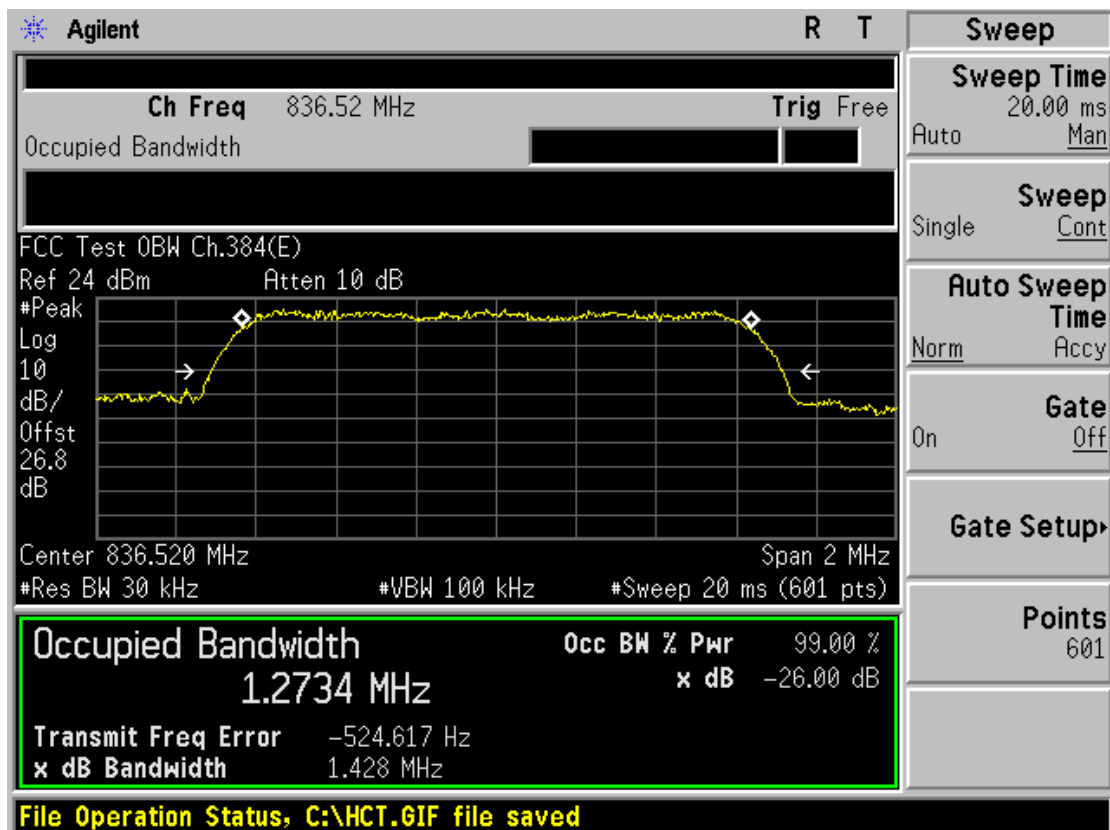
■ CDMA MODE (384 CH.) Occupied Bandwidth



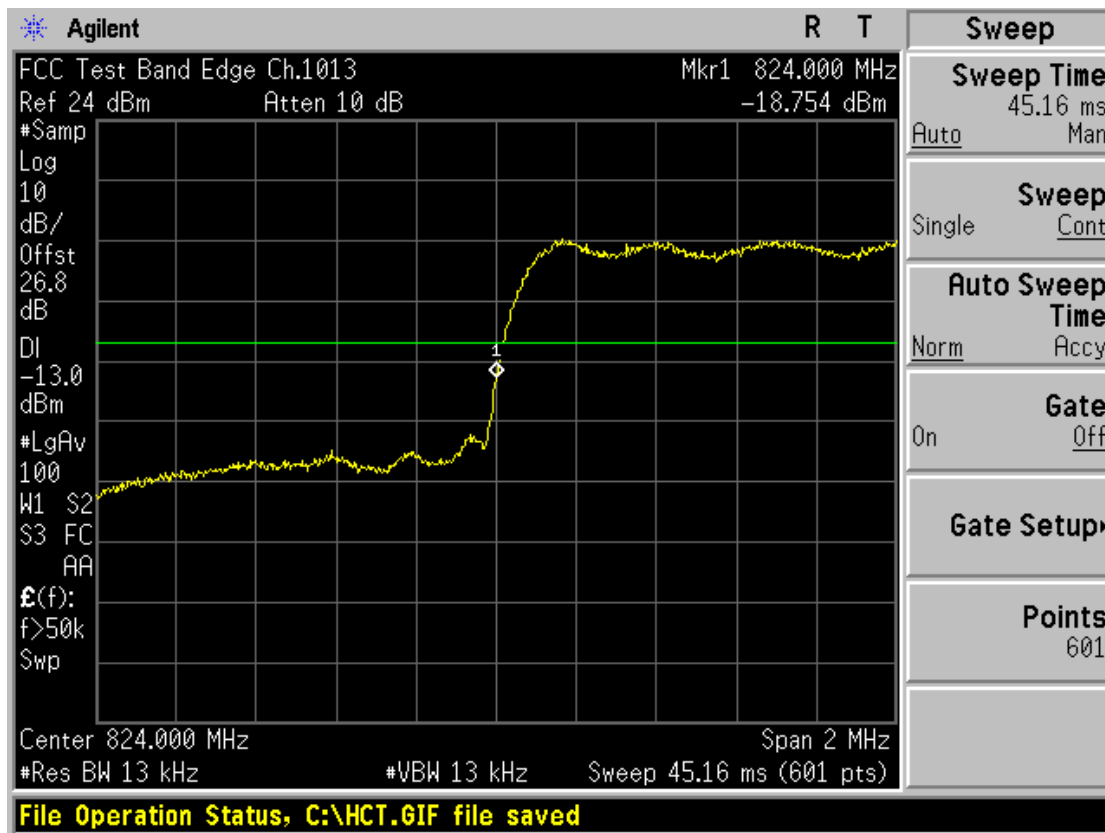
■ CDMA MODE (777 CH.) Occupied Bandwidth



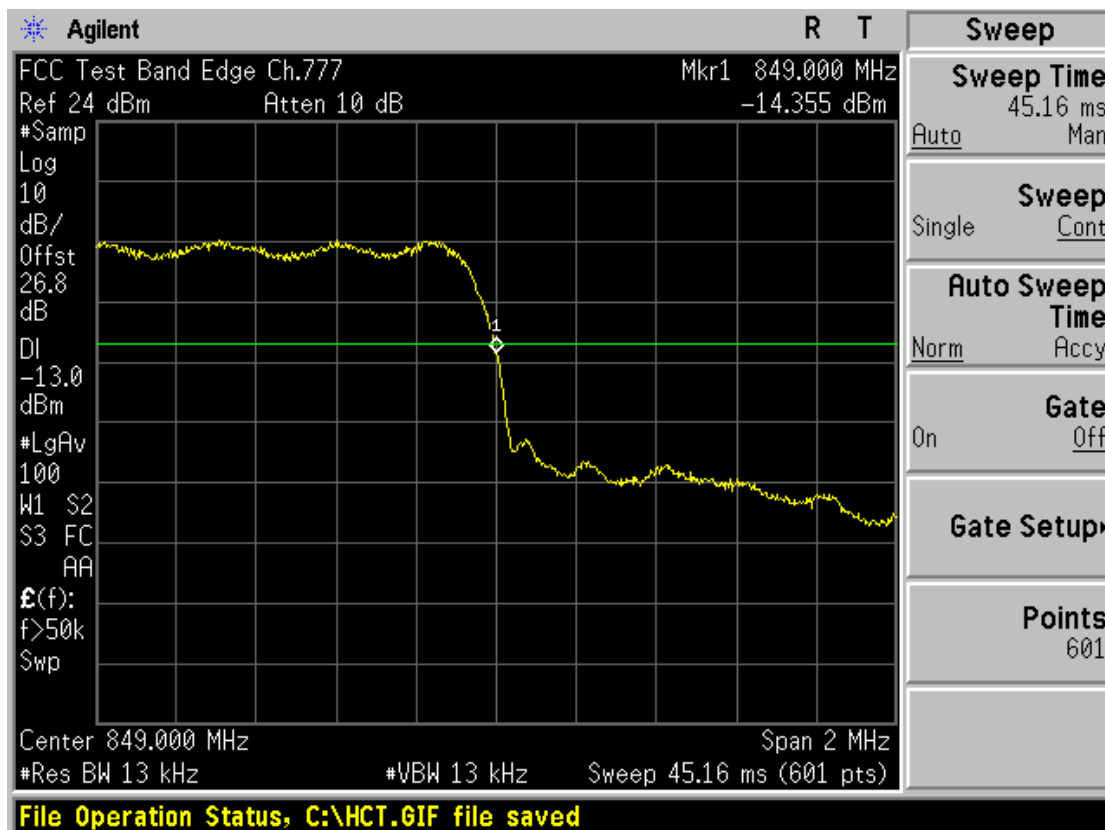
■ CDMA EVDO MODE (384 CH.) Occupied Bandwidth



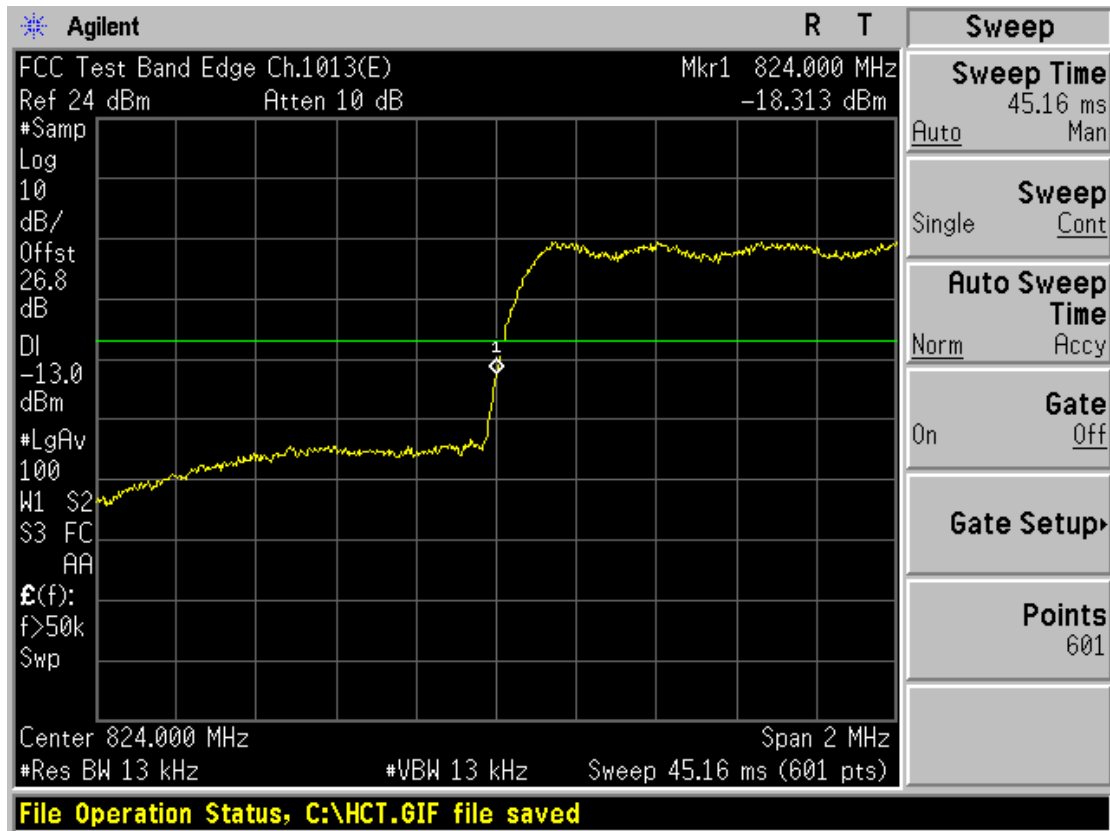
■ CDMA MODE (1013 CH.) Band Edge



■ CDMA MODE (777 CH.) Band Edge



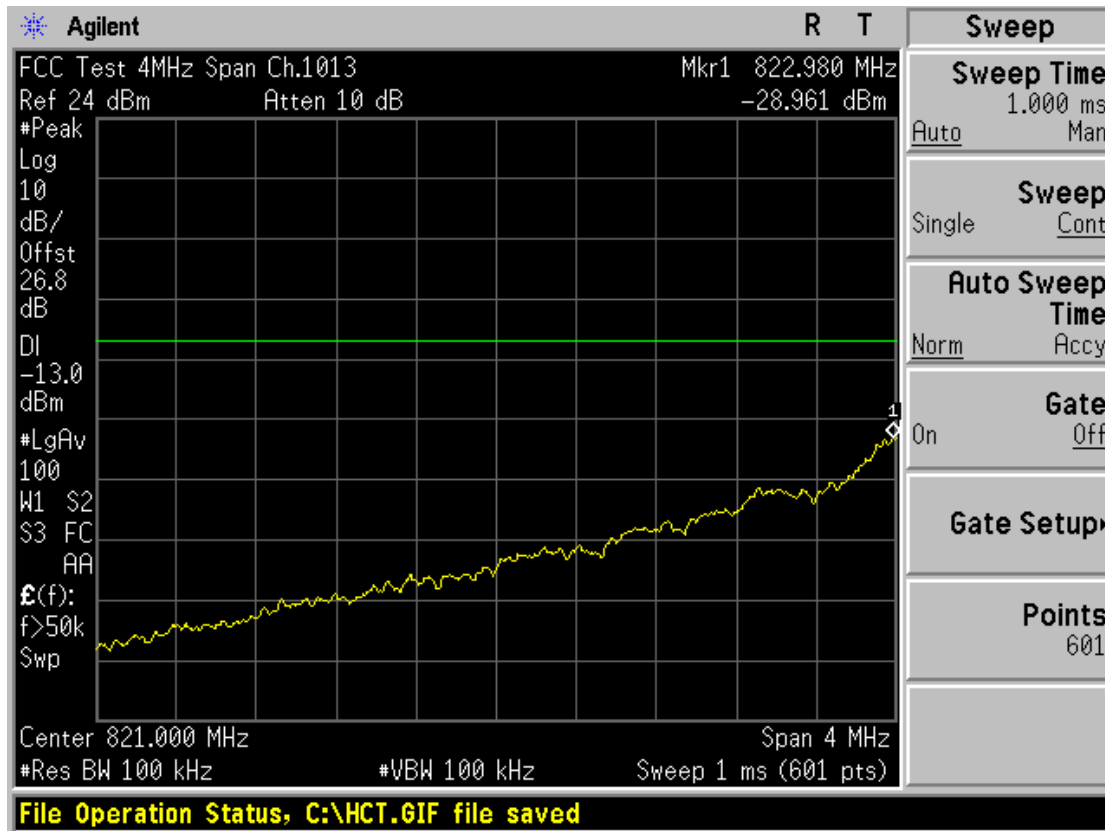
■ CDMA EVDO MODE (1013 CH.) Band Edge



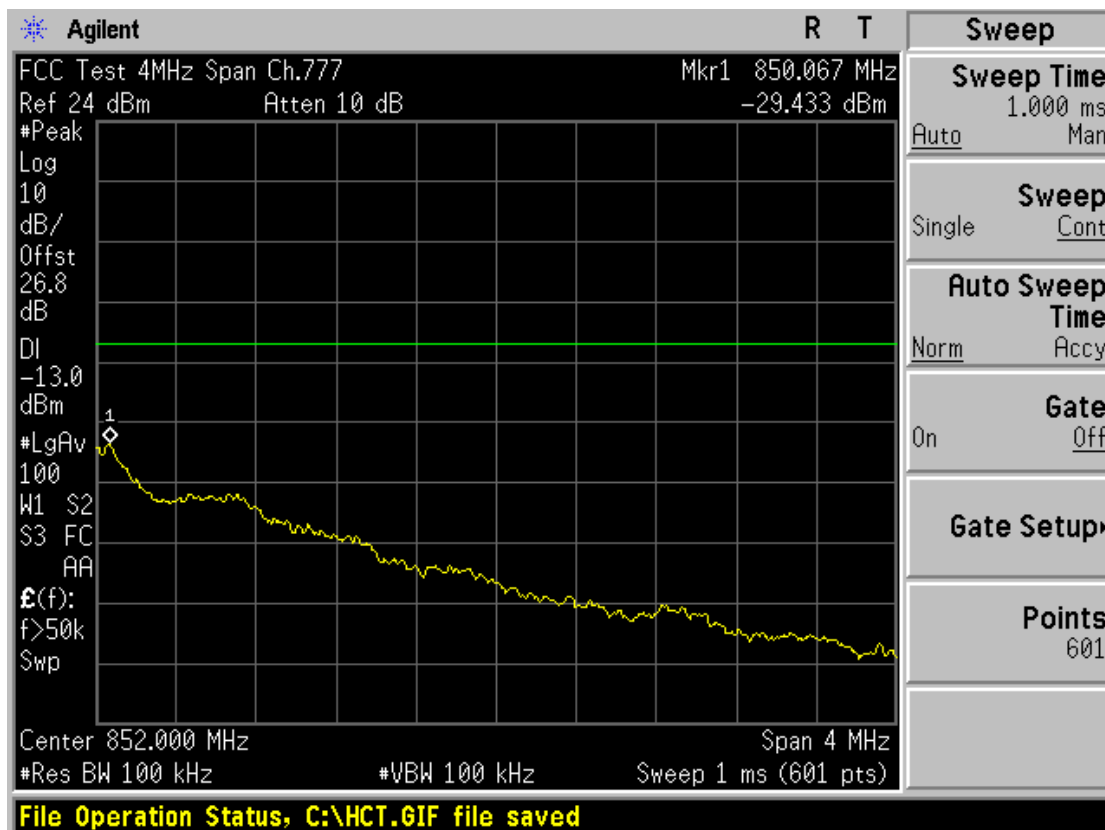
■ CDMA EVDO MODE (777 CH.) Band Edge



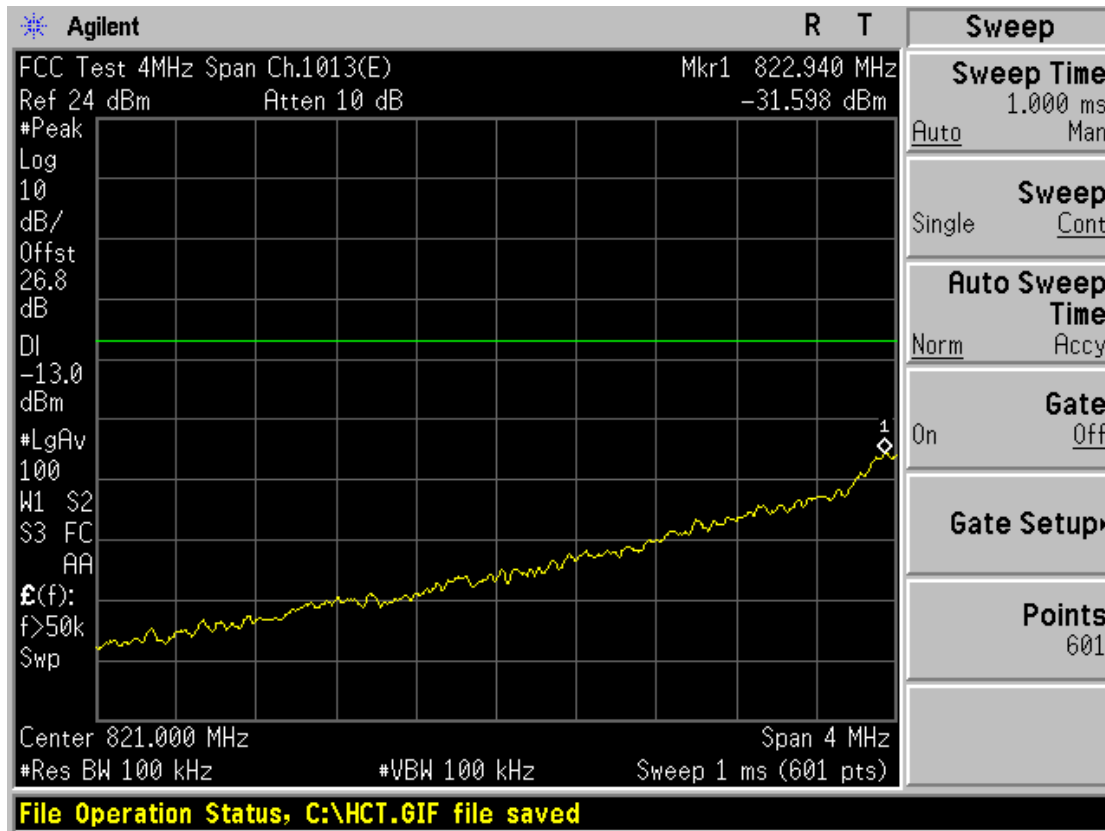
■ CDMA MODE (1013 CH.) 4 MHz Span



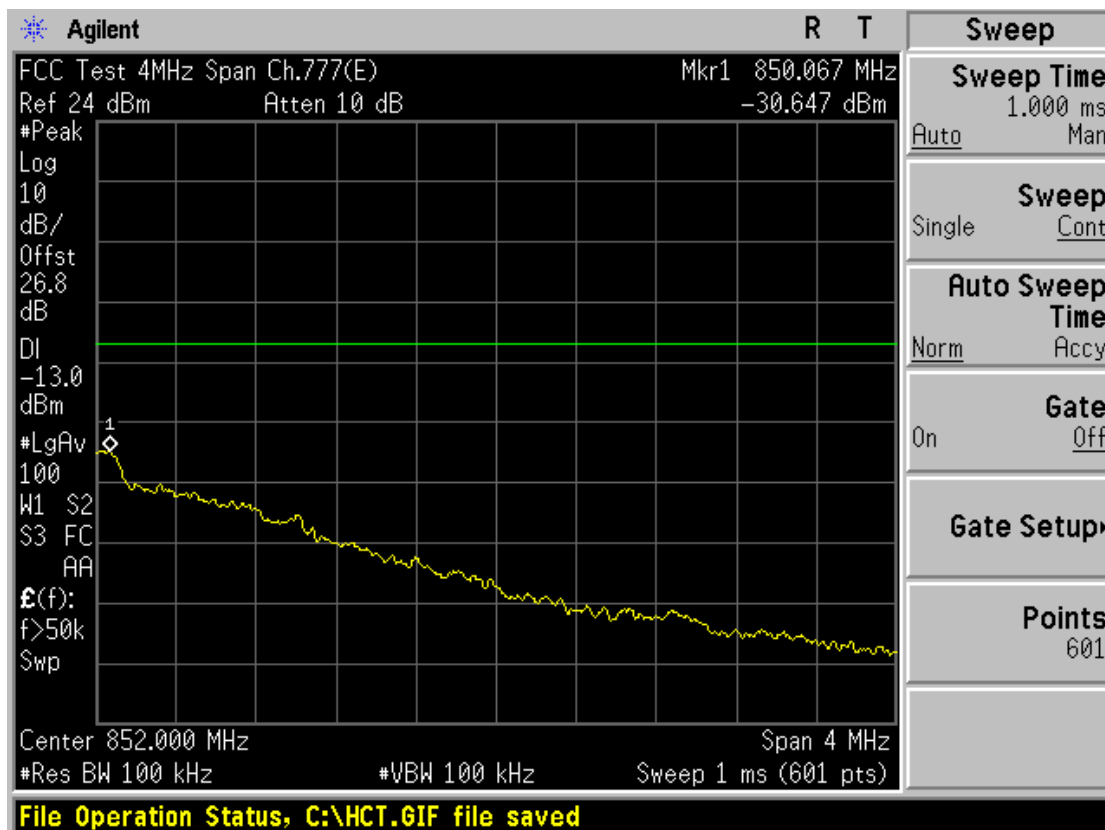
■ CDMA MODE (777 CH.) 4 MHz Span



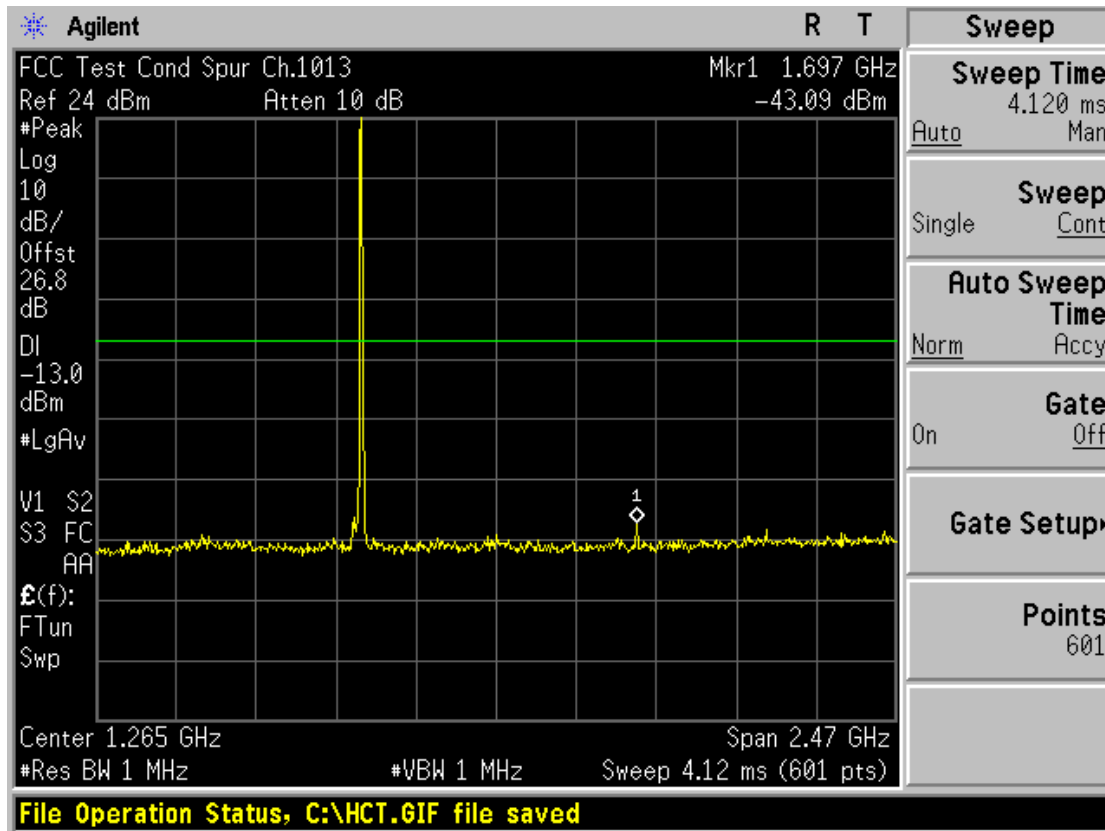
■ CDMA EVDO MODE (1013 CH.) 4 MHz Span



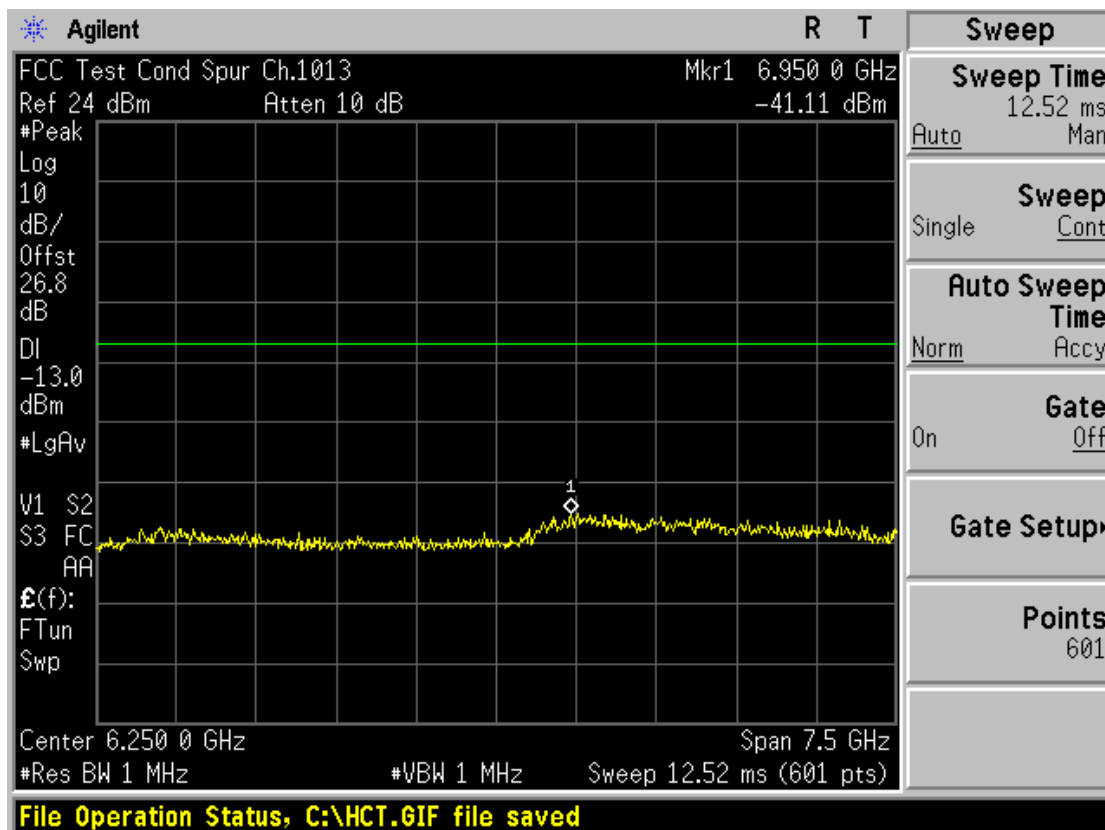
■ CDMA EVDO MODE (777 CH.) 4 MHz Span



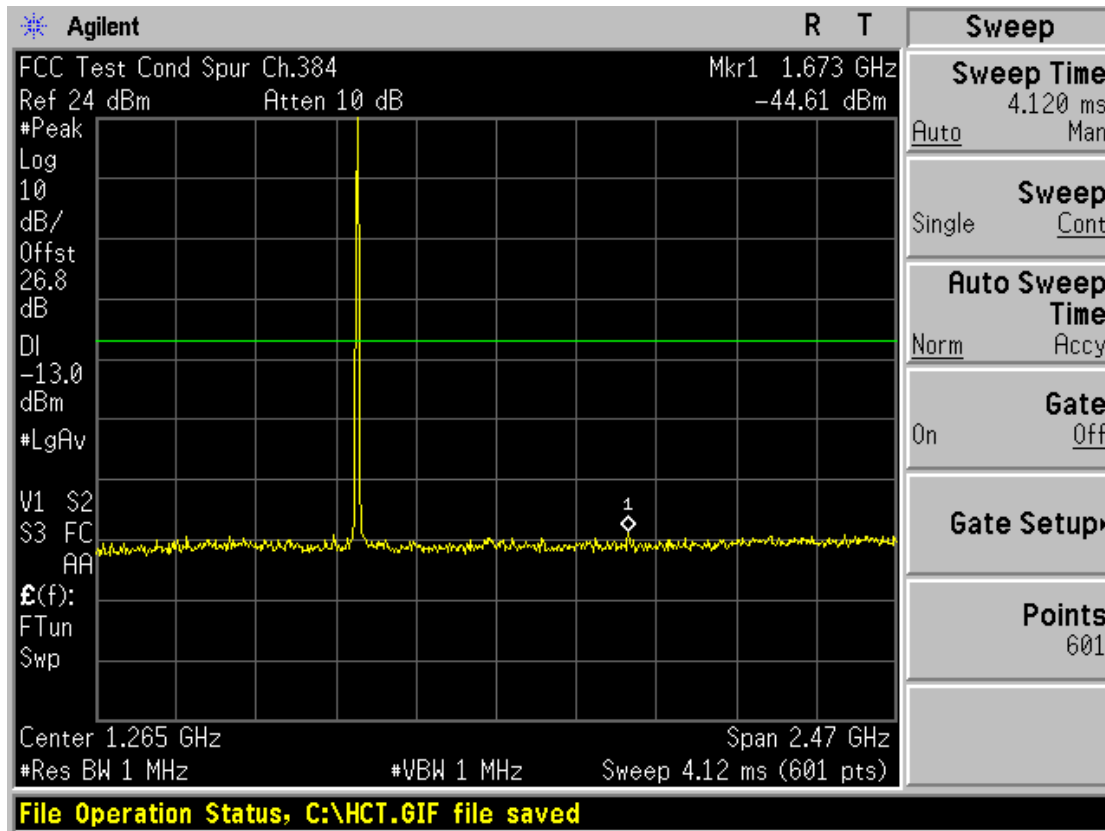
■ CDMA MODE (1013 CH.) Conducted Spurious Emissions - 1



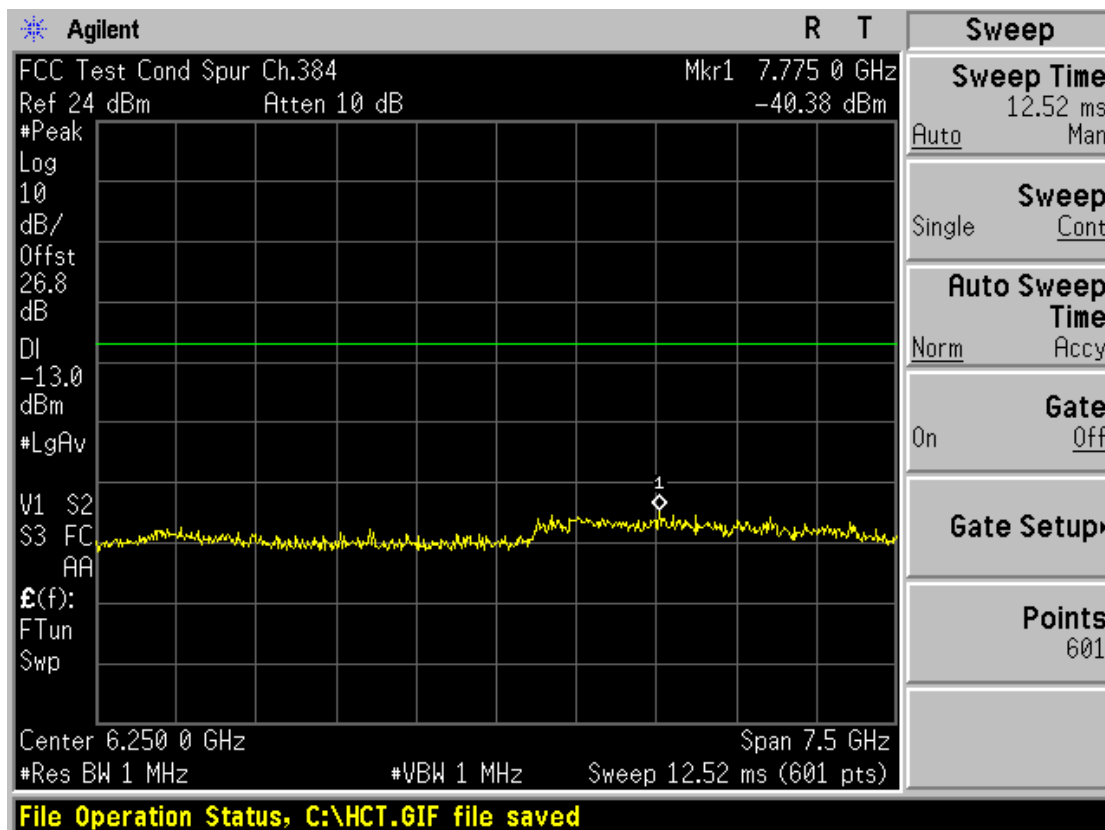
■ CDMA MODE (1013 CH.) Conducted Spurious Emissions - 2



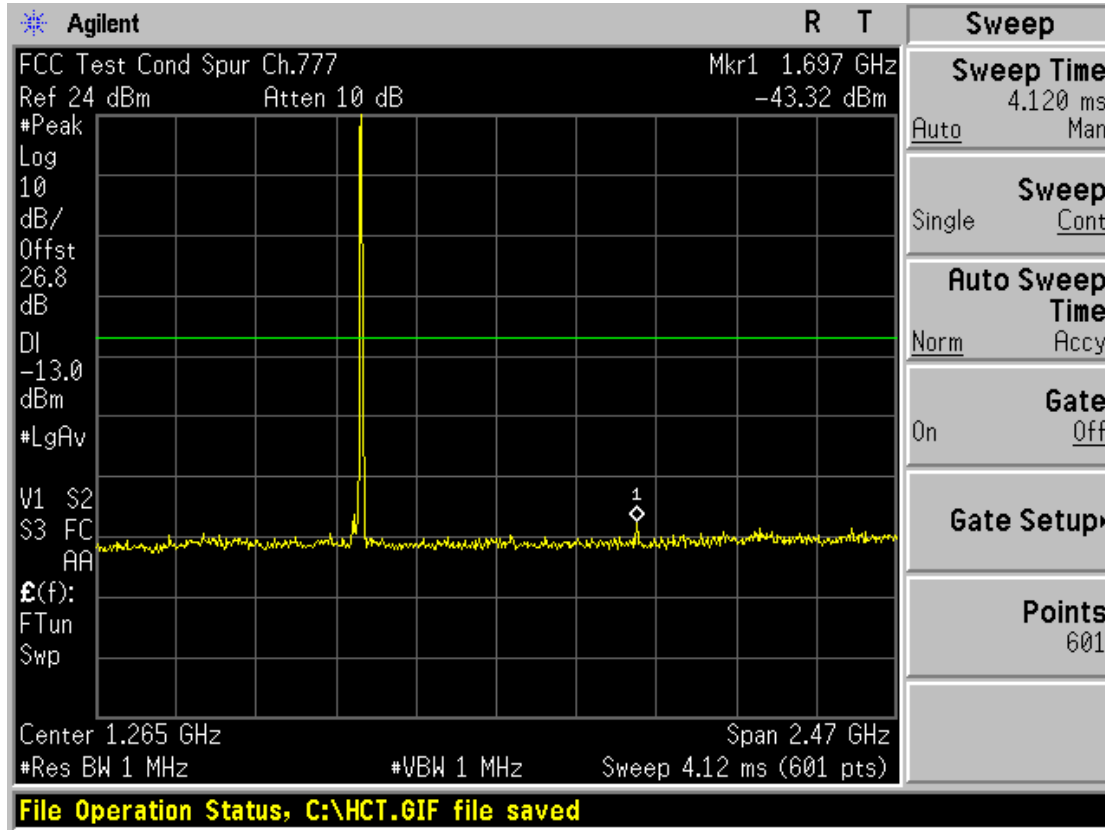
■ CDMA MODE (384 CH.) Conducted Spurious Emissions - 1



■ CDMA MODE (384 CH.) Conducted Spurious Emissions - 2



■ CDMA MODE (777 CH.) Conducted Spurious Emissions - 1



■ CDMA MODE (777 CH.) Conducted Spurious Emissions - 2

