

HCT CO., LTD.

Product Compliance Division

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CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name: PANTECH&CURITEL COMMUNICATION, INC. Address:	Date of Issue: December 22, 2009 Location:
PANTECH Building, I-2, DMC, Sangam-dong, Mapo-gu,	HCT CO., LTD., San 136-1 Ami-ri, Bubal-eup, Icheon-si,
Seoul, 121-792, Korea	Kyungki-do, Korea
	Test Report No.: HCTR0912FR08

HCT FRN: 0005866421

IC Recognition No.: IC 5944A-1

FCC ID : PP4COACH

APPLICANT : PANTECH&CURITEL COMMUNICATION, INC.

Model(s):	CDM8635
EUT Type:	Dual-band CDMA Phone
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:	0.463 W ERP CDMA (26.66 dBm) / 0.579 W EIRP PCS CDMA (27.63 dBm)
Emission Designator(s):	1M28F9W (CDMA) / 1M27F9W (PCS CDMA)
FCC Classification:	Licensed Portable Transmitter Held to Ear (PCE)
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)

eck

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:		PANTECH&CURITEL COMMUNICATION, INC.
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FCC ID:		PP4COACH
Applicati	ion Type:	Certification
FCC Clas	ssification:	Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule	e Part(s):	§22, §24, §2
EUT Typ	e:	Dual-band CDMA Phone
Model(s)	:	CDM8635
Battery	Model Name: Power Rating: Type:	BTR8635B(Standard) 3.7 V, 920 mAh, 3.4 Wh Li-ion Battery
Tx Freq	uency:	824.70 — 848.31 MHz (CDMA) 1 851.25 — 1 908.75 MHz (PCS CDMA)
Rx Freq	uency:	869.70 — 893.31 MHz (CDMA) 1 931.25 — 1 988.75 MHz (PCS CDMA)
Max. RF	Output Power:	0.463 W ERP CDMA (26.66 dBm) / 0.579 W EIRP PCS CDMA (27.63 dBm)
Emissio	on Designator(s):	1M28F9W (CDMA) / 1M27F9W (PCS CDMA)
Antenna	Specification	Manufacturer: KARAM Solution
	-	Antenna type: BUILT-IN Antenna
		Peak Gain: -0.07 dBi
Date(s) o	of Tests:	December 15, 2009 ~ December 16, 2009

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2. INTRODUCTION

2.1. EUT DESCRIPTION

The CDM8635 Dual-band CDMA Phone consists of Cellular CDMA and PCS CDMA.

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)

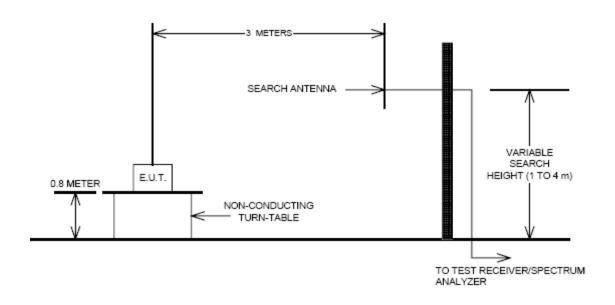
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3. DESCRIPTION OF TESTS

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.

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3.2 Peak- to- Average Ratio

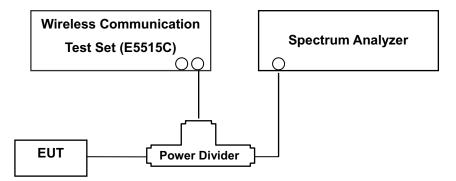
A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA and WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT 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.

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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.

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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.

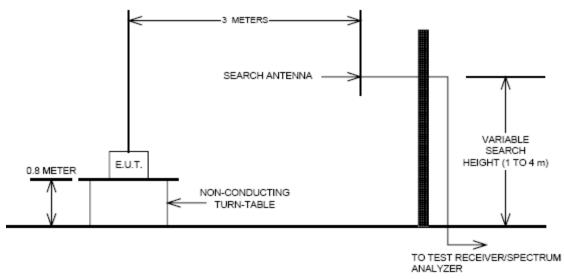
- Band Edge Requirement : In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

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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.

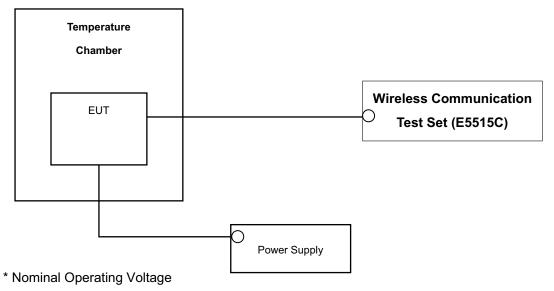
The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and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

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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 halfhour is provided to allow stabilization of the equipment at each temperature level. **NOTE: The EUT is tested down to the battery endpoint.**

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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

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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		PASS
2.1051, 22.917(a), 24.238(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	CONDUCTED	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)	Effective Radiated Power	< 7 Watts max. ERP		PASS
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP	RADIATED	PASS
2.1053, 22.917(a), 24.238(a)	Radiated Spurious and Harmonic Emissions	< 43 + 10log ₁₀ (P[Watts]) for all out-of band emissions		PASS

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6. SAMPLE CALCULATION

A. ERP Sample Calculation

Ī	Mode	Ch./ Freq.		Measured	Substitude	Ant. Gain	C.L	Pol.	EF	RP
	wode	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	Ant. Gain	U.L	P01.	w	dBm
	CDMA	384	836.52	-10.96	24.81	2.50	1.19	Н	0.41	26.12

ERP = SubstitudeLEVEL(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)

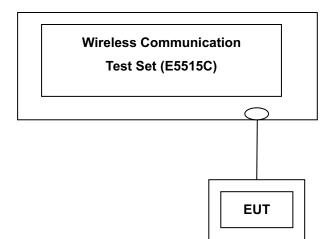
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7. TEST DATA

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.



		SO2	SO2	SO55	SO55	TDSO
Dand	Channel	502	502	3033		SO32
Band	Channel	RC1/1	RC3/3	RC1/1	RC3/3	RC3/3
		(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
	1013	24.51	24.42	24.52	24.39	24.45
CDMA	384	24.43	24.33	24.42	24.32	24.34
	777	24.40	24.37	24.38	24.33	24.38
PCS	25	24.82	24.72	24.79	24.68	24.63
	600	24.20	24.17	24.15	24.12	24.17
	1175	24.35	24.35	24.3	24.31	24.37

(Maximum Conducted Output Powers)

Note : Detecting mode is average.

7.2 Peak-to-Average Ratio

- Plots of the EUT's Peak- to- Average Ratio are shown Page 26.

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7.3 Occupied Bandwidth

Band	Channel	Frequency(MHz)	Data (MHz)
	1013	824.70	1.2784
CDMA	384	836.52	1.2785
	777	848.31	1.2723
	25	1851.25	1.2733
PCS	600	1880.00	1.2711
	1175	1908.75	1.2746

- Plots of the EUT's Occupied Bandwidth are shown Page 23 ~ 25.

7.4 Conducted Spurious Emissions

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
	1013	1.6480	-36.51
CDMA	384	2.5125	-39.46
	777	1.6970	-32.39
	25	13.7330	-37.83
PCS	600	13.5730	-37.60
	1175	3.8210	-33.54

- Plots of the EUT's Conducted Spurious Emissions are shown Page 30 ~ 36.

7.4.1 Band Edge

- Plots of the EUT's Band Edge are shown Page 26 ~ 30.

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7.5 Effective Radiated Power Output

(CDMA Mode)

	Ch.	/ Freq.	Measured	Substitude	Ant.			EF	RP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	Gain	C.L	Pol.	W	dBm
	1013	824.70	-11.08	34.75	-8.31	1.17	V	0.34	25.27
CDMA	384	836.52	-13.43	33.06	-8.22	1.19	Н	0.23	23.65
	777	848.31	-11.14	35.99	-8.13	1.20	Н	0.46	26.66

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 = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested under all configurations and the highest power is reported. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. And worst case of the EUT is in y plane(1013 CH.) and z plane(384, 777 CH.) in CDMA mode. Also worst case of detecting Antenna is in vertical(1013 CH.) and horizontal(384, 777 CH.) polarization in CDMA mode.

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7.6 Equivalent Isotropic Radiated Power

(PCS CDMA Mode)

Mode	Ch	./ Freq.	Measured	Substitude	Ant Coin	C.L	Pol.	E	IRP
Mode	channel	Freq.(MHz)	Hz) Level(dBm) LEVEL (dBm) Ant. Gain	Ant. Gain	U.L	F0I.	W	dBm	
	25	1,851.25	-13.31	18.30	10.05	1.91	V	0.44	26.43
PCS	600	1,880.00	-12.29	19.53	10.05	1.95	V	0.58	27.63
	1175	1,908.75	-13.30	18.60	10.06	1.97	V	0.47	26.69

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 = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

This device was tested under all configurations and the highest power is reported. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. And 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.

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7.7 Radiated Spurious Emissions

7.7.1 Radiated Spurious Emissions(CDMA Mode)

MEASURED OUTPUT POWER: <u>26.66 dBm = 0.463 W</u>

MODULATION SIGNAL:
 CDMA

DISTANCE:

■ LIMIT: - (43 + 10 log10 (W)) =

<u>3 meters</u> - 39.66 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,649.40	-37.07	7.09	-47.60	1.73	н	-42.24	-68.90
1013	2,474.10	-40.90	8.12	-48.01	2.28	Н	-42.17	-68.83
	3,298.80	-54.93	9.72	-62.51	2.57	Н	-55.36	-82.02
	1,673.04	-41.71	7.23	-52.47	1.79	V	-47.03	-73.69
384	2,509.56	-48.64	8.14	-55.77	2.33	н	-49.96	-76.62
	3,346.08	-52.06	9.99	-60.09	2.66	Н	-52.76	-79.42
	1,696.62	-31.95	7.41	-42.56	1.83	V	-36.98	-63.64
777	2,544.93	-52.32	8.21	-59.60	2.34	Н	-53.73	-80.39
	3,393.24	-54.57	9.91	-62.20	2.85	Н	-55.14	-81.80

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5th Harmonic for <u>all channel.</u>

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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7.7.2 Radiated Spurious Emissions(PCS CDMA Mode)

- MEASURED OUTPUT POWER: <u>27.63 dBm = 0.579 W</u>
- MODULATION SIGNAL:
 PCS CDMA
- DISTANCE:
- LIMIT: (43 + 10 log10 (W)) =

Ch.	Freq.(MHz)	<u>Measured Level</u> [dBm]	Ant. Gain	<u>Substitute</u> Level [dBm]	C.L	Pol.	EIRP (dBm)	dBc
	3,702.50	-51.87	12.46	-58.14	2.73	н	-48.41	-76.04
25	5,553.75	-56.11	12.70	-57.69	3.60	V	-48.59	-76.22
	7,405.00	-58.00	11.36	-49.12	3.88	н	-41.64	-69.27
	3,760.00	-47.93	12.47	-53.90	2.73	Н	-44.16	-71.79
600	5,640.00	-57.00	12.75	-58.65	3.60	V	-49.50	-77.13
	7,520.00	-58.12	11.33	-49.02	3.88	н	-41.57	-69.20
	3,817.50	-41.85	12.49	-47.73	2.73	н	-37.97	-65.60
1175	5,726.25	-56.28	12.80	-57.59	3.60	н	-48.39	-76.02
	7,635.00	-58.62	11.30	-49.29	3.88	Н	-41.87	-69.50

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> <u>according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:</u>

2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5th Harmonic for <u>all channel.</u>

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

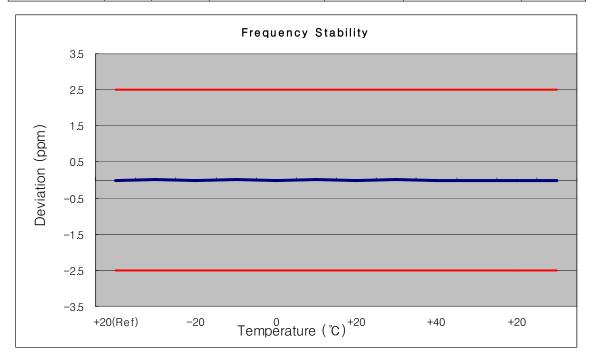
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7.8 Frequency stability / variation of ambient temperature 7.8.1 FREQUENCY STABILITY (CDMA)

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

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 519 998	-1.86	0.000 000	-0.002
100%		-30	836 520 002	1.90	0.000 000	0.002
100%		-20	836 519 998	-2.19	0.000 000	-0.003
100%		-10	836 520 002	1.69	0.000 000	0.002
100%	3.700	0	836 519 998	-2.28	0.000 000	-0.003
100%	3.700	+10	836 520 002	1.98	0.000 000	0.002
100%		+20	836 519 998	-1.89	0.000 000	-0.002
100%		+30	836 520 001	0.51	0.000 000	0.001
100%		+40	836 519 999	-1.50	0.000 000	-0.002
100%		+50	836 519 998	-1.64	0.000 000	-0.002
115%	4.255	+20	836 519 997	-2.71	0.000 000	-0.003
Batt. Endpoint	3.400	+20	836 519 996	-4.08	0.000 000	-0.005



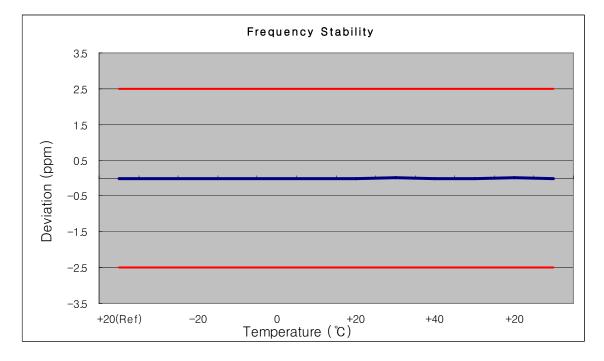
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7.8.2 FREQUENCY STABILITY (PCS CDMA)

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	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1879 999 993	-7.37	0.000 000	-0.004
100%		-30	1879 999 996	-4.35	0.000 000	-0.002
100%		-20	1879 999 996	-4.22	0.000 000	-0.002
100%]	-10	1879 999 996	-3.81	0.000 000	-0.002
100%	3.700	0	1879 999 994	-5.73	0.000 000	-0.003
100%	0.700	+10	1879 999 995	-5.13	0.000 000	-0.003
100%		+20	1879 999 991	-8.71	0.000 000	-0.005
100%		+30	1880 000 003	2.85	0.000 000	0.002
100%]	+40	1879 999 995	-4.59	0.000 000	-0.002
100%		+50	1879 999 994	-6.00	0.000 000	-0.003
115%	4.255	+20	1880 000 004	3.75	0.000 000	0.002
Batt. Endpoint	3.400	+20	1879 999 991	-9.11	0.000 000	-0.005



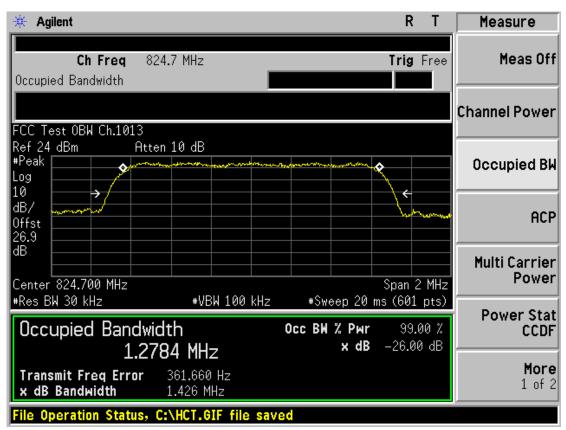
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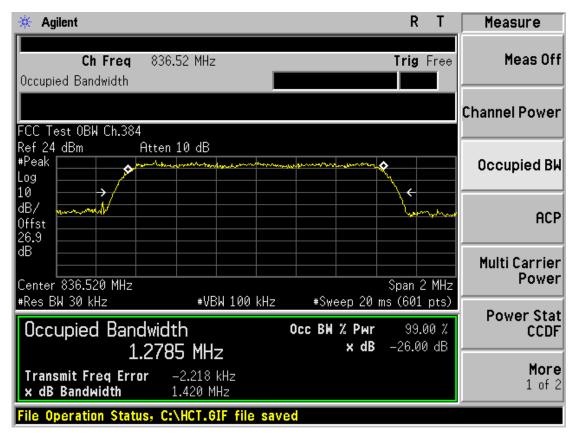
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CDMA MODE (1013 CH.) Occupied Bandwidth



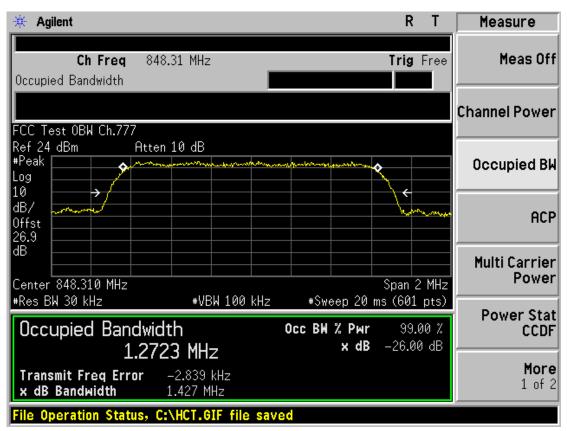
CDMA MODE (384 CH.) Occupied Bandwidth



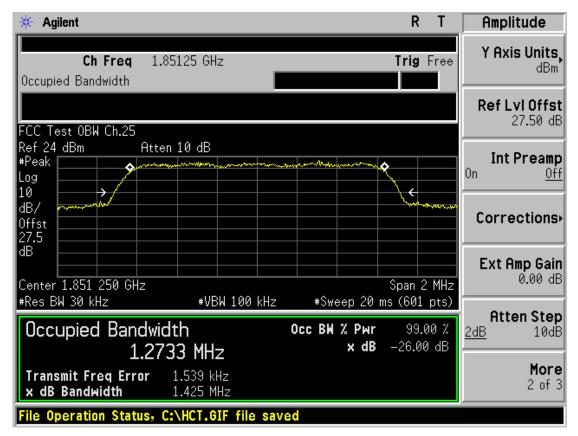
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CDMA MODE (777 CH.) Occupied Bandwidth



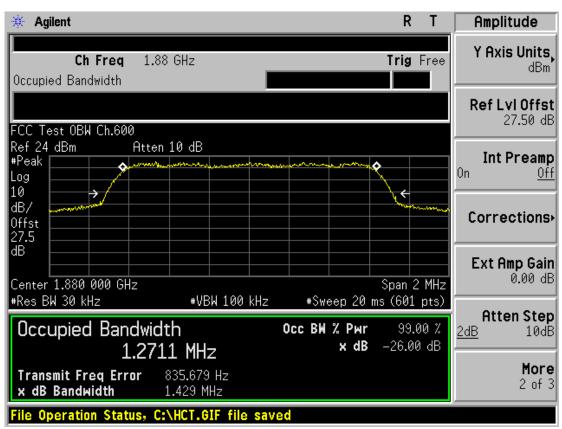
■ PCS CDMA MODE (25 CH.) Occupied Bandwidth



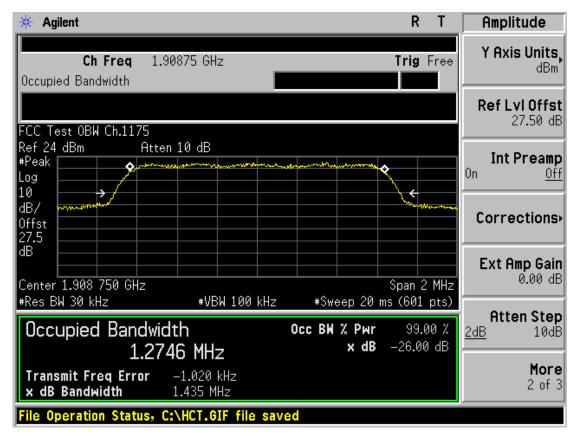
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PCS CDMA MODE (600 CH.) Occupied Bandwidth



PCS CDMA MODE (1175 CH.) Occupied Bandwidth



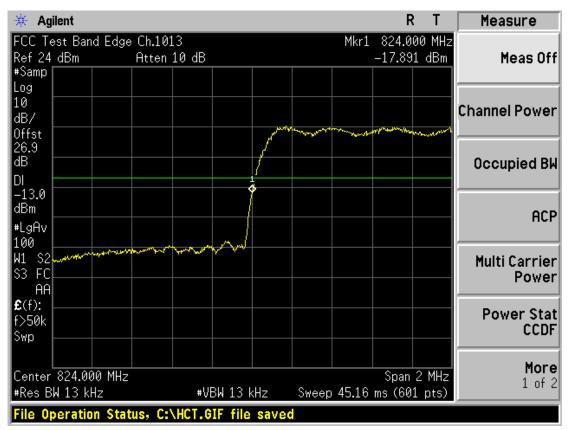
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* Agilent		R	Т	Measure
Ch Freq 1.83	GHz Counts(k): 100	Trig	Free	Meas Off
	100.00% Gaussian Referen			Channel Power
Average Power 24.13 dBm 49.62%	100.00% Gaussian Referen 10.00%	ce		Occupied BW
	1.00%			ACP
10.0% 1.91 dB 1.0% 3.17 dB 0.1% 3.77 dB	0.102			Multi Carrier Power
0.01% 4.08 dB 0.001% 4.26 dB 0.0001%	0.01%			Power Stat CCDF
Peak 4.26 dB	0.0001% 0 dB Meas BW 5.00000000 M	2 Hz	0 dB	More 1 of 2
Copyright 2000-2007 Ag				

■ PCS CDMA MODE (600 CH.) Peak-to-Average Ratio

■ CDMA MODE (1013 CH.) Band Edge



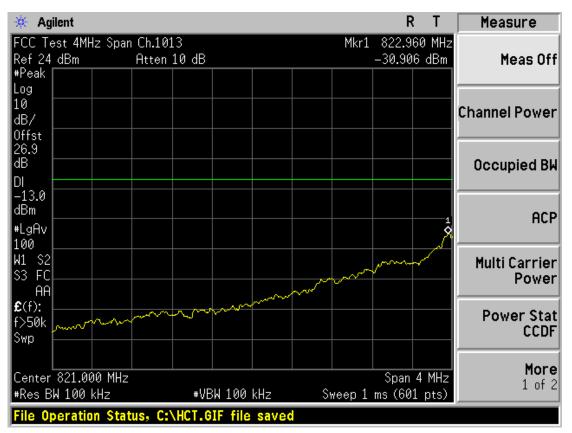
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🔆 Agilent				R	Т	Measure
FCC Test Band Edg			Mkr1			
Ref 24 dBm	Atten 10 dB			-14.671	dBm	Meas Off
#Samp Log						
10						ol
dB/						Channel Power
Offst Management	and the second second second	~~				
26.9 dB						Occurried BU
		<u>\</u>				Occupied BW
-13.0		`				
dBm) (ACP
#LgAv						псг
100						
W1 S2		W Virm	mon	monor		Multi Carrier
S3 FC AA					and a locate	Power
£(f):						
f>50k						Power Stat
Śwp						CCDF
Center 849.000 MH	7			Span 2	MHz	More
#Res BW 13 kHz		w 13 kHz – Swee	ep 45.16 i			1 of 2
File Operation Sta						
The operation of	acus, cranerior	The Suvew				

■ CDMA MODE (777 CH.) Band Edge

CDMA MODE (1013 CH.) 4 MHz Span



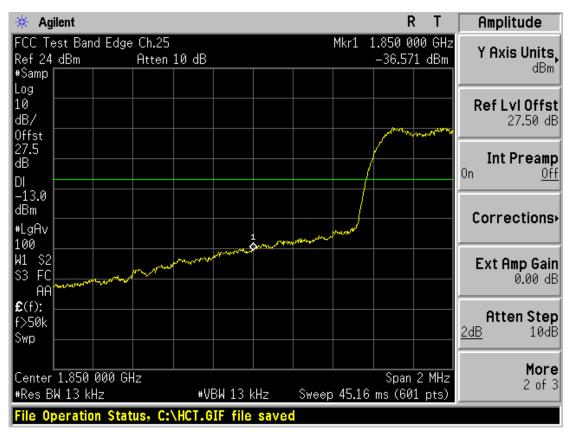
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CCC Test 4MHz Span Ch.777 Mkr1 850.027 MHz Ref 24 dBm Atten 10 dB -35.480 dBm Og 0 0 0 1B/ 0 0 11 52 0 13.0 0 0 13.0 0 0 13.0 0 0 13.0 0 0 13.0 0 0 13.0 0 0
Peak og O 0g O O 1B/ O O 0ffst O O 16.9 O O 18 O O 13.0 O O 14 O O 15 O O 16 O O
.og
0 IB/ IB/ Channel Power 0ffst IB/ IB/ ID/ 18 ID/ ID/ ID/ -13.0 IB/ ID/ ID/ IB/ ID/ ID/ ID/ -13.0 ID/ ID/ ID/ <
IB/ Dffst 26.9 IB DI -13.0 IBm LgAv 1 S3 FC Channel Power Occupied BW Occupied BW ACP Multi Carrier Power
Diffst 16.9 18 01 -13.0 18 15 15 15 15 16 16 16 17 17 17 17 17 17 17 17 17 17
Cocupied BW DI -13.0 IBm LgAv 11 S2 Multi Carrier Power
ACP 13.0 IBm LgAv 1 S2 3 FC Multi Carrier Power
13.0 IBm 00 11 S2 3 FC Multi Carrier Power
IBm ACP LgAv 1 00 4 I1 \$2 3 FC Multi Carrier Power
LgAv 1 00 0 11 S2 3 FC Multi Carrier Power
LgAv 1 00 o 11 S2 3 FC Multi Carrier Power
II S2 Multi Carrier B3 FC Power
3 FC Power
C(f): Power Stat
>50k Power stat
More
enter 852.000 MHZ Span 4 MHZ 1 of 2
Res BW 100 kHz #VBW 100 kHz Sweep 1 ms (601 pts)
ile Operation Status, C:\HCT.GIF file saved

■ CDMA MODE (777 CH.) 4 MHz Span

■ PCS CDMA MODE (25 CH.) Band Edge



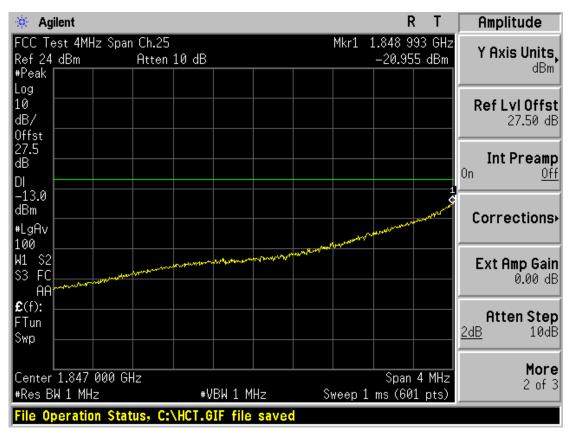
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🔆 Agilent				R	T Amplitude
FCC Test Band I			Mkr1	1.910 000	
Ref 24 dBm #Samp	Atten 10 dB	1	1	-35.402 c	Bm dBm
Log					
10					Ref LvI Offst
dB/					27.50 dB
Offst	~~				
27.5 dB	<u> </u>				Int Preamp
	<u> </u>				On <u>Off</u>
-13.0					
dBm					Corrections.
#LgAv	harmont	1			con conoria,
100	and a feature		hore and		
W1 S2 S3 FC				Ward Martin	Ext Amp Gain
S3 FC AA				The state of the second	•••••• 0.00 dB
£ (f):					
f>50k					Atten Step
Swp					<u>2dB</u> 10dB
Center 1.910 00	0 GHz			Span 2 1	More
# Res BW 13 kHz		BW 13 kHz	Sweep 45.16		
File Operation	Status, C:\HCT.G				

■ PCS CDMA MODE (1175 CH.) Band Edge

PCS CDMA MODE (25 CH.) 4 MHz Span



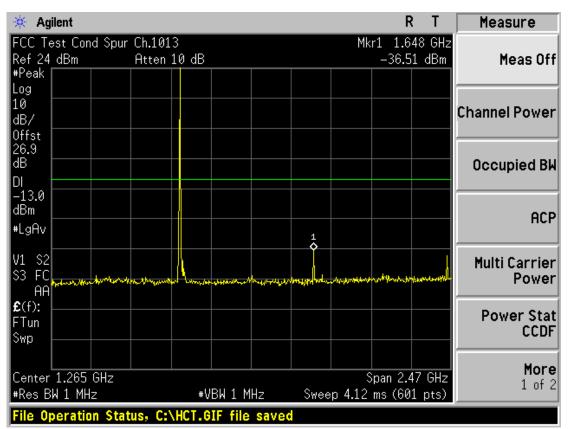
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🔆 Agilent				RT	Amplitude
FCC Test 4MHz Span Ref 24 dBm	Ch.1175 Atten 10 dB		Mkr1 (1.911 013 GHz -19.815 dBm	Y Axis Units,
#Peak					dBm
Log 10 dB/					Ref Lvl Offst 27.50 dB
0ffst 27.5 dB DI 1					Int Preamp On <u>Off</u>
-13.0 dBm #LgAv 100	1 Mar Mar Mater				Corrections•
AA		and a second and a second and a second and a second a s	have not the second second	and and a second and	Ext Amp Gain 0.00 dB
€(f): FTun Swp					Atten Step 2dB 10dB
Center 1.913 000 GH #Res BW 1 MHz		BW 1 MHz	Sweep 1	Span 4 MHz ms (601 pts)	More 2 of 3
File Operation Stat	us, C:\HCT.G	IF file saved			

■ PCS CDMA MODE (1175 CH.) 4 MHz Span

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



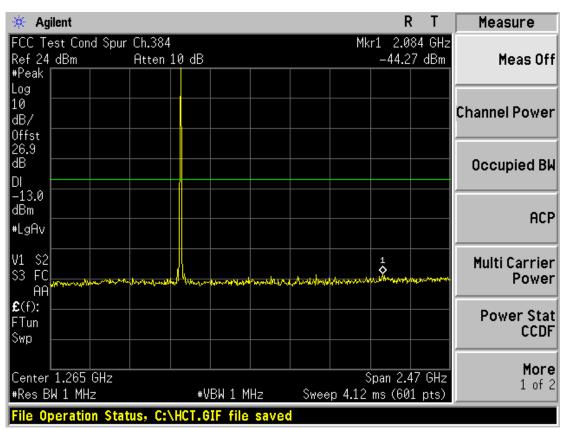
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🔆 Agilent							R	Т	Measure
FCC Test Cond Spur						Mkr1	7.025		
Ref 24 dBm #Peak	Atten 1	0 dB					-39.35	dBm	Meas Off
Log									
10 dB/									Channel Power
Offst									
26.9									
dB DI									Occupied BW
-13.0									
dBm									ACP
#LgAv									
V1 S2 S3 FC	Here a fato and a fato	-	9.vr4.1.+1114v	1.	tager, Mont	www.harro	Marrownym	whilestrates	Multi Carrier Power
AA £(f):									
FTun Swp									Power Stat CCDF
Center 6.250 0 GHz							Span 7.	5 GHz	More 1 of 2
#Res BW 1 MHz		#VBk	l 1 MHz	2	Sweep	12.52	ms (601	pts)	1012
File Operation Stat	us, C:\	HCT.GIF	file s	aved					

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

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



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🔆 Agilent				RT	Measure
FCC Test Cond Spur Ref 24 dBm #Peak	Ch.384 Atten 10 dB		Mkr1	2.512 5 GHz -39.46 dBm	
under Log 10 dB/ Offst					Channel Power
26.9 dB DI -13.0					Occupied Bk
-15.0 dBm #LgAv					ACP
V1 S2 9 S3 FC , , , , , , , , , , , , , , , , , ,	amada faadaa faadaa ahaa ahaa ahaa ahaa ah	where the second state the second	Honsen and the second stands	on hulle before you we	Multi Carrier Power
£(f): FTun Swp					Power Stat CCDF
Center 6.250 0 GHz #Res BW 1 MHz	#V	BW 1 MHz	Sweep 12.52	Span 7.5 GHz ms (601 pts)	More 1 of 2
File Operation Stat	us, C:\HCT.G	IF file saved			

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

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

🔆 Agilent							R	Т	Measure
FCC Test Cond Spur						Mk	r1 1.6		
Ref 24 dBm #Peak	Atten 1	.0 dB					-32.3	9 dBm	Meas Off
Log									
10									01
dB/									Channel Power
Offst									
26.9 dB									O
									Occupied BW
DI -13.0									
dBm									000
#LgAv					1				ACP
V1 S2									Multi Carrier
S3 FC	WWW. And Law	Hickory	Jultilian	-	westerned for	Jest have	Arren and	horithere	Power
AA									
£(f):									Power Stat
FTun Swp									CCDF
duc duc									
									More
Center 1.265 GHz					¢		pan 2.4		1 of 2
#Res BW 1 MHz			BW 1 M			p 4. 12	ms (60.	i pts)	
File Operation Stat	tus, C:\	HCT.G	IF file	savec					

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🔆 Agilent					R	Т	Measure
FCC Test Cond Spur				Mkr1		5 GHz	
Ref 24 dBm	Atten 10) dB			-40.21	l dBm	Meas Off
#Peak							
Log 10							
dB/							Channel Power
Öffst							
26.9							
dB							Occupied BW
-13.0 dBm							
#LgAv							ACP
*L9HV							
V1 S2			• •				Multi Carrier
S3 FC monthe Multimeter	Maryon Mayne	Annally and Alexander	half and a source of the	manutynus	warning	where where the	Power
AA							
£ (f):							Power Stat
FTun							CCDF
Swp							
							More
Center 6.250 0 GHz					Span 7.		1 of 2
#Res BW 1 MHz		#VBW 1 M	Hz Sweer	o 12 . 52 i	ms (601	. pts)	
File Operation Stat	us, C:\H	CT.GIF file	saved				

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

PCS CDMA MODE (25 CH.) Conducted Spurious Emissions - 1

🔆 Agilent				R	Т	Amplitude
FCC Test Cond Spur			Mk	r1 3.70		Y Axis Units,
Ref 24 dBm #Peak	Atten 10 dB			-40.62	dBm	dBm
Log						
10						Ref LvI Offst
dB/						27.50 dB
Offst 27.5						
dB						Int Preamp
DI						0n <u>0ff</u>
-13.0						
dBm						Corrections.
#LgAv						
V1 S2					\$	Ext Amp Gain
S3 FC	ande Maran and Percebara inte	Andrew Markenson	an marth and miller	Hornenton	hornor	0.00 dB
AA						
£(f):						Atten Step
FTun Swp						<u>2dB</u> 10dB
Center 2.015 GHz) Span 3.97	7 CU-7	More
#Res BW 1 MHz	#1	/BW 1 MHz	Sweep 6.64			2 of 3
File Operation Stat					194007	

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🔆 Agilent				RT	Amplitude
FCC Test Cond Spur Ref 24 dBm			Mkr:	1 13.733 GHz -37.83 dBm	Y Axis Units
#Peak				-57.05 0.01	dBm
Log 10					Ref Lvl Offst
dB/					27.50 dB
Offst 27.5					Int Proomn
dB DI					Int Preamp On <u>Off</u>
-13.0					
dBm #LgAv					Corrections•
			1 ◊		
V1 S2 S3 FC	When have no have and	umann	adalant managementers	the way the property of the second	Ext Amp Gain 0.00 dB
AA					0.00 UD
£(f): FTun					Atten Step
Swp					<u>2dB</u> 10dB
					More
Center 12.000 GHz #Res BW 1 MHz	#	VBW 1 MHz	Sweep 40	Span 16 GHz ms (601 pts)	2 of 3
File Operation Stat					

■ PCS CDMA MODE (25 CH.) Conducted Spurious Emissions - 2

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

🔆 Agilent			R	Т	Amplitude
FCC Test Cond Spur Ref 24 dBm #Peak	Ch.600 Atten 10 dB		Mkr1 3.76 –38.40		Y Axis Units, dBm
Log 10 dB/ Offst					Ref Lvl Offst 27.50 dB
27.5 dB					Int Preamp ^{On <u>Off</u>}
-13.0 dBm #LgAv					Corrections•
V1 S2 S3 FC AA	maningana	hon ware and the	unghour man and and		Ext Amp Gain 0.00 dB
€(f): FTun Swp					Atten Step 2dB 10dB
Center 2.015 GHz #Res BW 1 MHz	#VBW 1	. MHz Swe	Span 3.9 ep 6.64 ms (601		More 2 of 3
File Operation Stat	us, C:\HCT.GIF f	ile saved			

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🔆 Agilent				RT	Amplitude
FCC Test Cond Spur				573 GHz	Y Axis Units,
Ref 24 dBm #Peak	Atten 10 dB		-37.	60 dBm	dBm
Log					
10 dB/					Ref Lvl Offst 27.50 dB
Offst 27.5					
dB					Int Preamp On <u>Off</u>
–13.0 dBm					
#LgAv					Corrections
V1 S2 S3 FC material and second	Kanphinesesper Angelenethisperioreseet	mannin	hangsaturen daan deba	autoria	Ext Amp Gain 0.00 dB
£(f): FTun Swp					Atten Step 2dB 10dB
Center 12.000 GHz			Span	16 GHz	More 2 of 3
#Res BW 1 MHz	#VBW	1 MHz S	weep 40 ms (6		2 Of 3
File Operation Stat	us, C:\HCT.GIF	file saved			

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

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

🔆 Agilent				R	Т	Amplitude
CC Test Cond Spur			Mkr	1 3.821		Y Axis Units
Ref 24 dBm #Peak	Atten 10 dB			-33.54	dBm	dBm
-og						
10						Ref LvI Offst
JB∕ I						27.50 dB
)ffst						
27.5 A						Int Preamp
						0n <u>Off</u>
-13.0						
dBm						Corrections
+LgAv					1 \$	corrections
					<u> </u>	
/1 S2						Ext Amp Gain
S3 FC	allow and the state of the stat	and and the second and a second a	Law marked mark the market	****************	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0.00 dB
AA C(f):						
Tun						Atten Step
бwр						<u>2dB</u> 10dB
Center 2.015 GHz				oan 3.97	GHz	More
Res BW 1 MHz	#V	BW 1 MHz	Sweep 6.64 i			2 of 3
ile Operation Sta						

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🔆 Agilent			RT	Amplitude
FCC Test Cond Spur Ref 24 dBm #Peak	Ch.1175 Atten 10 dB		Mkr1 13.867 GH: -37.22 dBm	V flyie lipite
Log 10 dB/				Ref Lvl Offst 27.50 dB
0ffst 27.5 dB DI				Int Preamp On <u>Off</u>
-13.0 dBm #LgAv				Corrections
V1 S2 S3 FC	untur and a second	www.www.	hand the shade of the stand	Ext Amp Gain 0.00 dB
£(f): FTun Swp				Atten Step 2dB 10dB
Center 12.000 GHz #Res BW 1 MHz	#VBW 1	. MHz Sw	Span 16 GHz veep 40 ms (601 pts)	
File Operation Stat	us, C:\HCT.GIF f	ile saved		

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

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