

HCT CO., LTD.

Product Compliance Division

TEL: +82 31 639 8518 FAX: +82 31 639 8525

CERTIFICATE OF COMPLIANCE

FCC PART 15.247 Certification

Date of Issue:

Applicant Name: Cal-Comp Electronics & Communications Company Limited

Address:

3F., No.99, NAN-KING E.RD., SEC.5, Taipei 105, Taiwan

August 24, 2009 **Test Site/Location:** HCT.CO., LTD., San 136-1 Ami-ri, Bubal-eup, Icheon-si, Kyungki-do, Korea **Test Report No.:** HCT-RF09-0809 HCT FRN: 0005866421

IC Recognition No.: 5944A-1

FCC ID: US7-A300

APPLICANT: Cal-Comp Electronics & Communications Company Limited

Model(s):	A300
EUT Type:	Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)
Max. RF Output Power:	0.89 dBm(1.23 mW)
Frequency Range:	2402 - 2480 MHz (Bluetooth)
Modulation type	GFSK
FCC Classification:	FCC Part 15 Frequency Hopping Spread Spectrum Transceiver
FCC Rule Part(s):	Part 15 subpart C 15.247

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. 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.862

Wak

Report prepared by : hyo Sun Kwak Test engineer of RF Team

Approved by

: Sang Jun Lee Manager of RF Team

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 of 38



Table of Contents

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT <u>www.hct.co.kr</u>			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 of 38



1. GENERAL INFORMATION

Applicant:	Cal-Comp Electronics & Communications Company Limited
Address:	3F., No.99, NAN-KING E.RD.,SEC.5, Taipei 105, Taiwan
FCC ID:	US7-A300
EUT:	Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)
Model:	A300
Date of Test:	August 10, 2009 ~ August 20, 2009
Contact person:	Name: Jong Ho, Kim
	Phone #: +82 2 2662 2660 #7532
	Fax #: +82 2 8913 2001 #7573

2. EUT DESCRIPTION

Product	Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)
Model Name	A300
Power Supply	DC 3.7 V
Battery type	Standard
Frequency Range	2402 ~ 2480 MHz
Transmit Power	0.89 dBm(1.23 mW)
Modulation Type	GFSK(Normal)
Modulation Technique	FHSS
Number of Channels	79 Channels
	Manufacturer:
Antenna Specification	Antenna type: Antenna
	Peak Gain : dBi

*** 15.247 Requirements for Bluetooth transmitter.**

• This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:

1) This system is hopping pseudorandomly.

2) Each frequency is used equally on the average by each transmitter.

3) The receiver input bandwidths that match the hopping channel bandwidths of their corresponding transmitters

4) The receiver shifts frequencies in synchronization with the transmitted signals.

15.247(g): The system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this Section 15.247 should the transmitter be presented with a continuous data (or information) stream.
15.247(h): The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT <u>www.hct.c</u>			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 of 38



3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz(ANSI C63.4-2003) and FCC Public Notice DA 00-705 dated March 30, 2000 entitled "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" were used in the measurement of the **Cal-Comp Electronics & Communications Company Limited**

Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA) FCC ID: US7-A300

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 4 of 38



4. 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 equipments, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

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. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated June 10, 2009 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 5 of 38



6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

* The antennas of this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 6 of 38



7. FCC PART 15.247 REQUIREMENTS

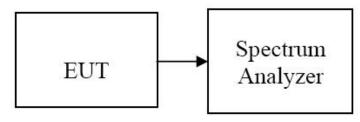
7.1 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902 ~ 928 MHz, 2400 ~ 2483.5 MHz, and 5725 ~ 5850 MHz: 1 watt.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to the peak detector mode.

- 1. Span = 2 MHz
- 2. RBW = 1 MHz
- 3. VBW = 1 MHz
- 4. Sweep = auto
- 5. Packet type= DH5

TEST RESULTS

No non-compliance noted

Test Data

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Limit (W)	Result
Low	2402	0.89	1.23	1	PASS
Mid	2441	-3.79	0.42		PASS
High	2480	-0.91	0.81		PASS

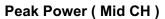
HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 7 of 38

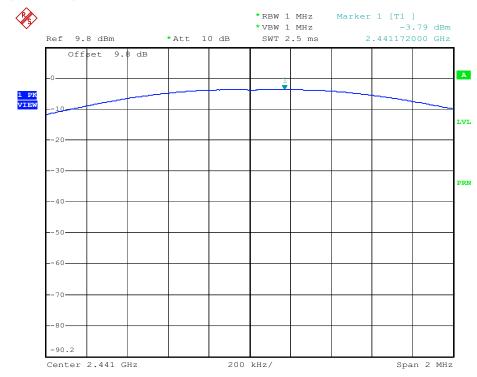


Test Plots







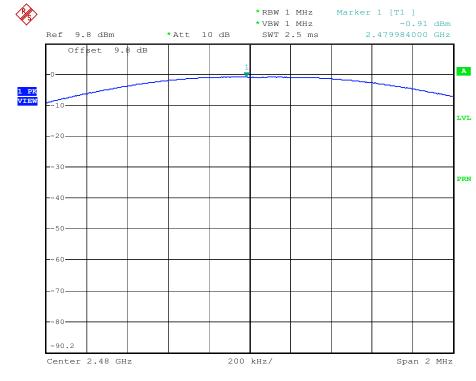


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HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 8 of 38



Peak Power (High CH)



Date: 10.AUG.2009 10:11:41

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 9 of 38

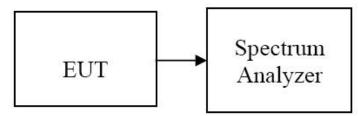


7.2 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Configuration



TEST PROCEDURE

The spectrum analyzer is set to :

- 1. Span = 8 MHz
- 2. RBW = 100 kHz
- 3. VBW = 300 kHz
- 4. Sweep = auto
- 5. Detector Mode = Peak

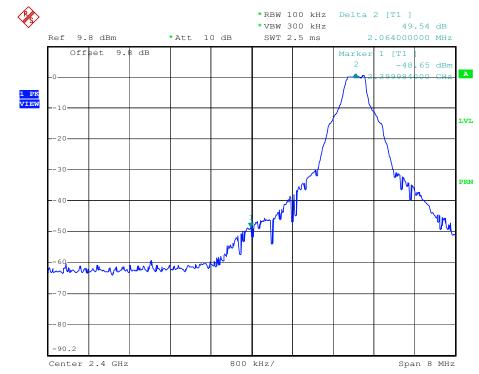
TEST RESULTS

See attached.

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 0 of 38

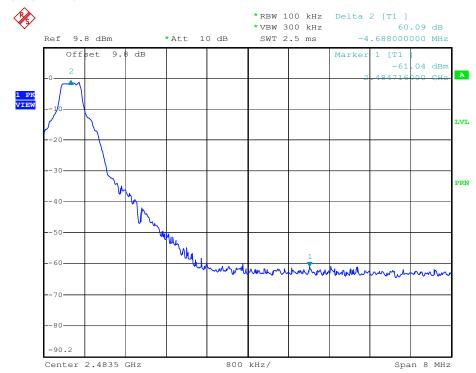


Test Data Band Edges (Low- CH)









Date: 10.AUG.2009 10:14:32

HCT PT.15.247 TEST REPORT				www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 1 of 38

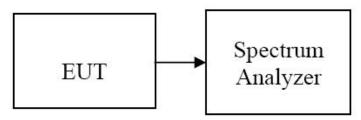


7.3 FREQUENCY SEPARATION

LIMIT

According to §15.247(a)(1), Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Test Configuration



TEST PROCEDURE

The spectrum analyzer is set to:

- 1. Span = 3 MHz
- 2. RBW = 30 kHz
- 3. VBW = 100 kHz
- 4. Sweep = auto

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

TEST RESULTS

No non-compliance noted

Test Data

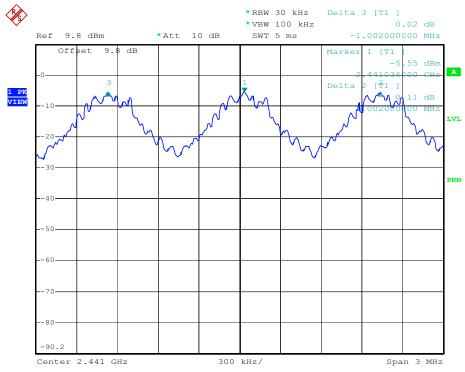
Channel Separation	20dB Bandwidth		Limit	Result
(kHz)	(kHz)		(kHz)	
	Low CH	966	>25 or	
1002	Middle CH	960	>2/3 of the 20dB	Pass
	High CH	972	BW	

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 2 of 38



Test Plot

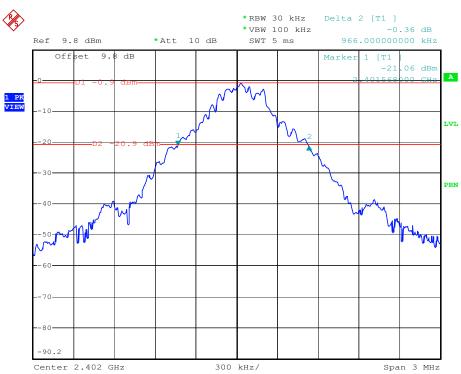
Measurement of Channel Separation



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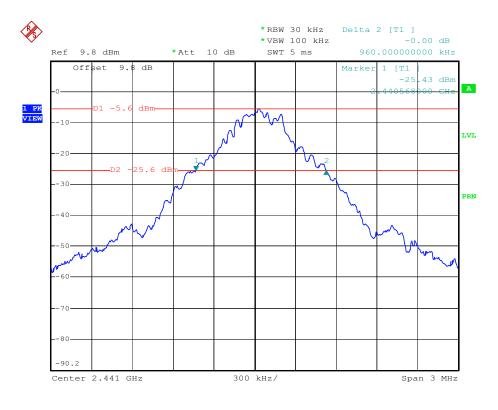
Test Plot

20 dB bandwidth (Low CH)



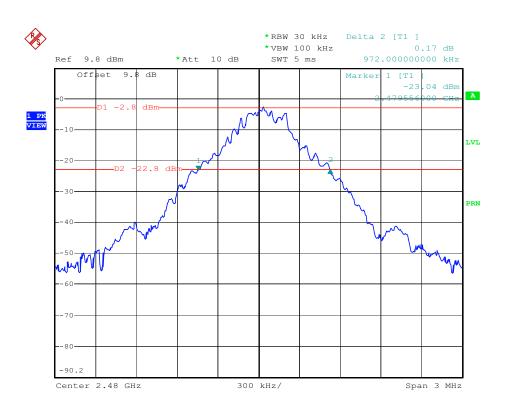
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HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 3 of 38





Date: 10.AUG.2009 10:05:03

(High CH)



	Date:	10.AUG.2009	10:07:24		
HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809		e of Issue: ust 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 4 of 38

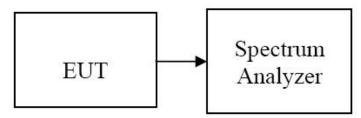


7.4 NUMBER OF HOPPING FREQUENCY

LIMIT

According to 15.247(a)(1)(ii), Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands shall use at least 15 hopping frequencies.

Test Configuration



TEST PROCEDURE

The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer was set to :

- 1. Span = the frequency band of operation (Start = 2400 MHz, Stop = 2483.5 MHz)
- 2. RBW = 300 kHz
- 3. VBW = 300 kHz
- 4. Sweep = auto

The trace was allowed to stabilize.

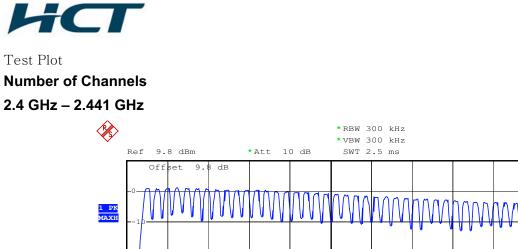
TEST RESULTS

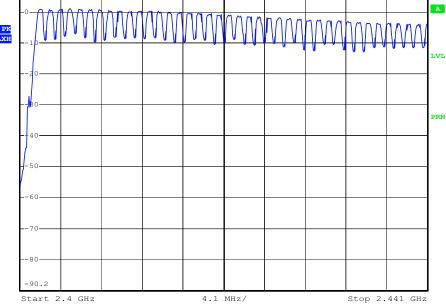
No non-compliance noted

Test Data

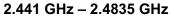
Result (No. of CH)	Limit (No. of CH)	Result
79	>15	Pass

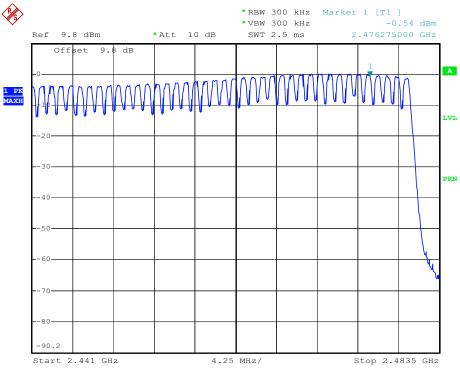
HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 5 of 38





Date: 10.AUG.2009 10:18:21





Date: 10.AUG.2009 10:19:13

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 6 of 38

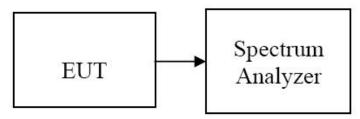


7.5 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to \$15.247(a)(1)(iii), Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Test Configuration



TEST PROCEDURE

EUT was set to transmit the longest packet type (DH5)

- 1. Span = zero span
- 2. RBW = 1 MHz
- 3. VBW = 1 MHz
- 4. Sweep = as necessary to capture the entire dwell time per channel

The marker-delta function was used to determine the dwell time.

TEST RESULTS

See the table.

DH 5(The longest packet type)

CH Mid : 2.90 * (1600/6) / 79 * 31.6 = 309.33

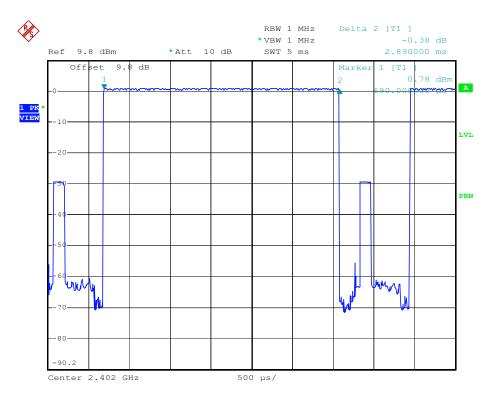
Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	2.89	308.27	31.6		PASS
Mid	2.90	309.33	31.6	400	PASS
High	2.90	309.33	31.6		PASS

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 7 of 38



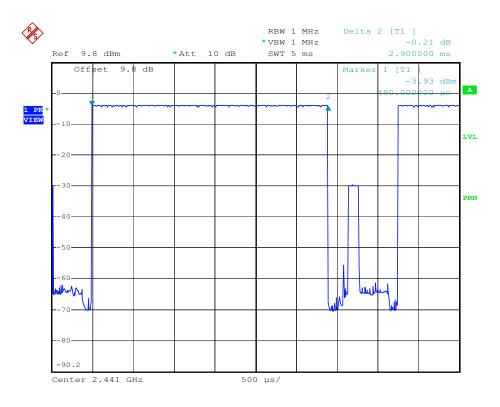
Test Plots **DH 5**

(Low CH)





(Mid CH)

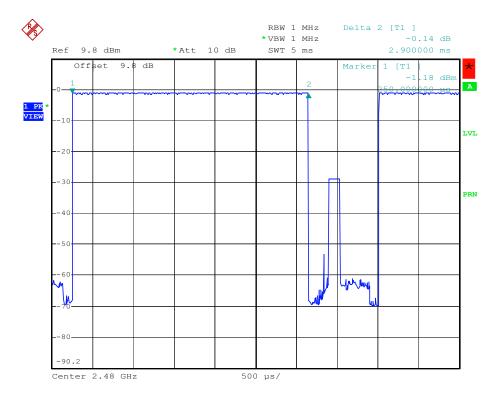


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HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 8 of 38



(CH High)



Date: 10.AUG.2009 10:21:15

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 1 9 of 38



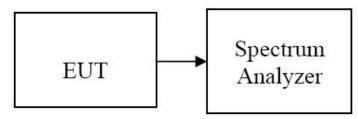
7.6 SPURIOUS EMISSIONS

7.6.1 Conducted Spurious Measurement

LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz. Detector Mode is set to a peak detector Mode.

Measurements are made over the 30 MHz to 26 GHz range with the transmitter set to the lowest, middle, and highest channels.

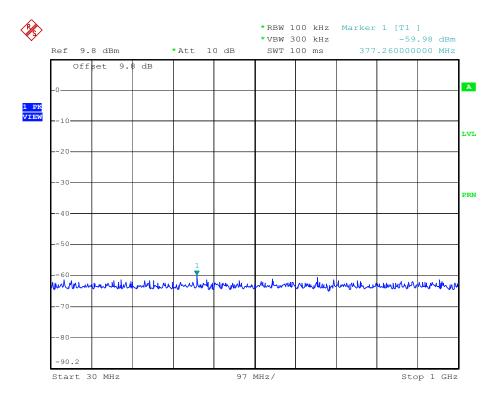
TEST RESULTS

No non-compliance noted

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 0 of 38

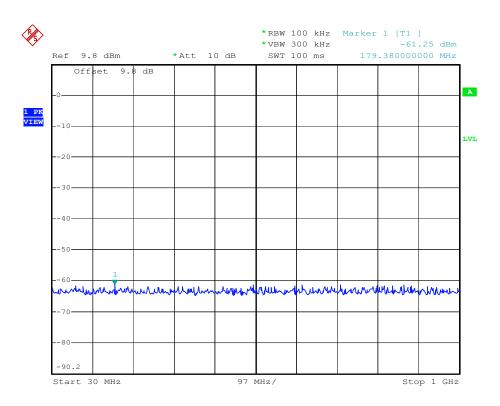


Test Plots: 30 MHz \sim 1 GHz (Low CH)



Date: 10.AUG.2009 10:30:48

(Mid CH)

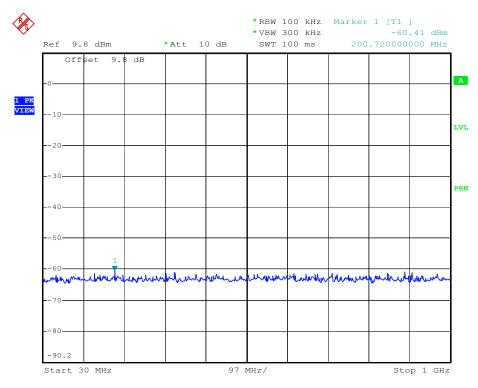


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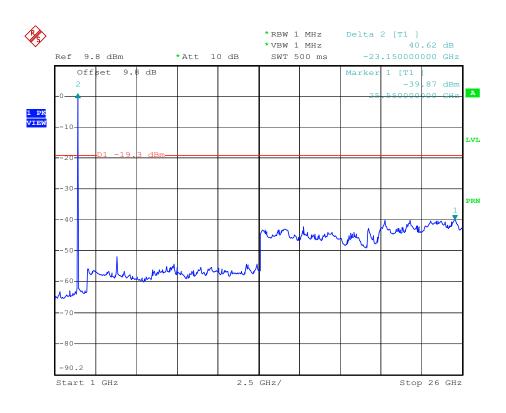
HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 1 of 38



(High CH)



Date: 10.AUG.2009 10:46:43 Test Plots: 1 MHz ~ 26 GHz (Low CH)

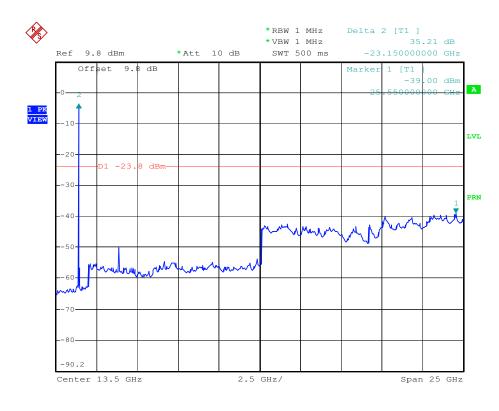


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HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 2 of 38

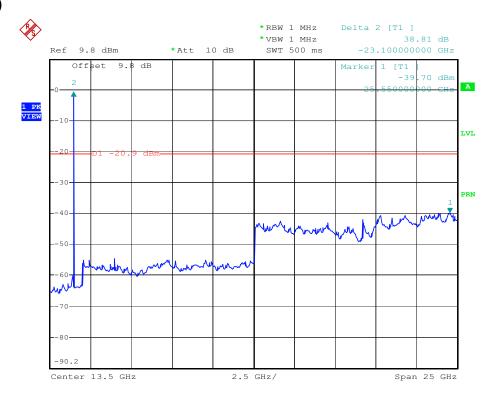


(Mid CH)



Date: 10.AUG.2009 10:49:38

(High CH)





HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 3 of 38



7.6.2 Radiated Spurious Emissions

LIMIT

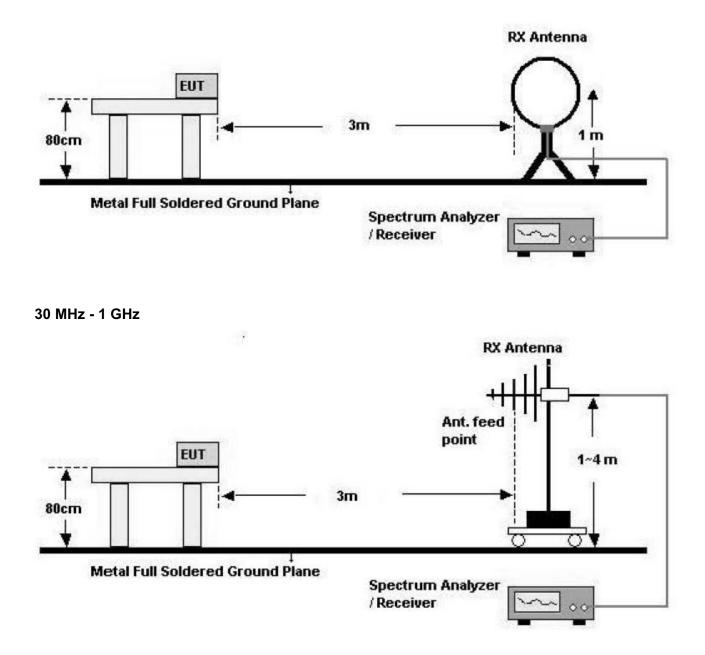
1. 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 4 of 38



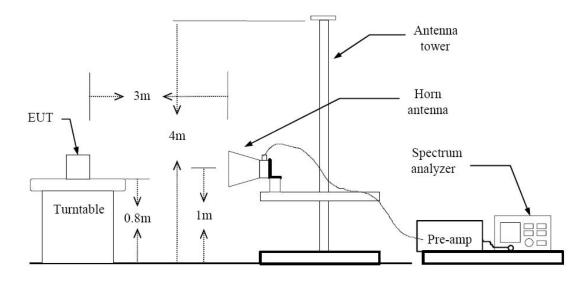
Below 30 MHz



HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 5 of 38



Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 6 of 38



TEST RESULTS 9 kHz – 30MHz Operation Mode: Normal Link

- 1. Measuring frequencies from 9 kHz to the 30 MHz.
- 2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 4. Limit line = specific Limits (dBuV) + Distance extrapolation factor

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 7 of 38



TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link

Frequency	Reading	Ant. Factor	Cable Loss	Ant. POL	Total	Limit	Margin
MHz	dBµN	dB /m	dB	(H/V)	dBµN/m	dBµN/m	dB
45.0	17.6	12.5	0.7	V	30.8	40.0	9.2
115.0	11.1	10.3	1.2	V	22.6	43.5	20.9
127.0	14.9	11.3	1.2	V	27.4	43.5	16.1
253.0	14.4	11.6	1.7	V	27.7	46.0	18.3

- 1. Measuring frequencies from 30 MHz to the 1 GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

HCT PT.15.247 TEST REPORT		www.hct.co.kr		
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 8 of 38



Above 1 GHz

Operation Mode: CH Low

Frequency	Reading	AN.+CL-AMP GAIN.	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Delect
4804	46.35	-4.79	V	41.56	74	32.44	PK
4804	34.36	-4.79	V	29.57	54	24.43	AV
7206	48.05	1.21	V	49.26	74	24.74	PK
7206	35.91	1.21	V	37.12	54	16.88	AV
4804	46.93	-4.79	Н	42.14	74	31.86	PK
4804	34.24	-4.79	Н	29.45	54	24.55	AV
7206	48.90	1.21	Н	50.11	74	23.89	PK
7206	36.25	1.21	Н	37.46	54	16.54	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
- a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
- b. AV Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT www.hct.co.kr				
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 2 9 of 38	



Operation Mode: CH Mid

Frequency	Reading	AN.+CL-AMP GAIN.	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Deleci
4882	46.82	-4.61	V	42.21	74	31.79	PK
4882	35.20	-4.61	V	30.59	54	23.41	AV
7323	48.72	1.62	V	50.34	74	23.66	PK
7323	36.55	1.62	V	38.17	54	15.83	AV
4882	46.58	-4.61	Н	41.97	74	32.03	PK
4882	34.33	-4.61	Н	29.72	54	24.28	AV
7323	48.76	1.62	Н	50.38	74	23.62	PK
7323	36.56	1.62	Н	38.18	54	15.82	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT www.hct.co.kr				
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 0 of 38	



Operation Mode: CH High

Frequency	Reading	AN.+CL-AMP GAIN.	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Delect
4960	46.52	-4.42	V	42.10	74	31.90	PK
4960	34.32	-4.42	V	29.90	54	24.10	AV
7440	48.73	2.04	V	50.77	74	23.23	PK
7440	36.54	2.04	V	38.58	54	15.42	AV
4960	46.26	-4.42	Н	41.84	74	32.16	PK
4960	34.26	-4.42	Н	29.84	54	24.16	AV
7440	48.57	2.04	Н	50.61	74	23.39	PK
7440	36.60	2.04	Н	38.64	54	15.36	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MH.
 - b. AV Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT <u>www.hct.co.kr</u>				
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 1 of 38	



7.6.3 Radiated Restricted Band Edge Measurements

Test Requirements and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c).

Operation Mode:	GFSK(Normal)
Operating Frequency	2402 MHz, 2480 MHz
Channel No.	0,78

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Deleci
2358.00	47.78	-10.29	Н	37.49	74	36.51	PK
2358.00	35.79	-10.29	Н	25.50	54	28.50	AV
2321.04	47.33	-10.45	V	36.88	74	37.12	PK
2321.04	35.52	-10.45	V	25.07	54	28.93	AV
2492.84	47.59	-9.72	Н	37.87	74	36.13	PK
2492.84	35.29	-9.72	Н	25.57	54	28.43	AV
2492.77	46.66	-9.72	V	36.94	74	37.06	PK
2492.77	35.31	-9.72	V	25.59	54	28.41	AV

- 1. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 10 Hz.

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 2 of 38



7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

	Limits (dBµV)			
Frequency Range (MHz)	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 3 of 38



Test Plot

Conducted emissions (Line 1 / Mid CH)

Operating Condition: Bluetooth Mode Test Site: SHIELD ROOM Operator: YH-LEE Test Specification: CISPR22 Class B Comment: H SCAN TABLE: "CISPR22 CLASS B" Short Description: KN22 CLASS B	EUT: A300 Manufacturer: Cal-comp Electronics & Communications Company Lim Operating Condition: Bluetooth Mode Test Site: SHIELD ROOM Operator: YH-LEE Test Specification: CISPR22 CLASS B Comment: H SCAN TABLE: "CISPR22 CLASS B" Short Description: KN22 CLASS B Start Stop Step Detector Meas. IF Transduc Time Bandw. 150.0 kHz 500.0 kHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 500.0 kHz 5.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 5.0 MHz 5.0 MHz 5.0 MHz 5.0 KHz MaxPeak 10.0 ms 9 kHz None Average	HCT							
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+ + + MES PHONE fin AV MES PHONE pre PK	+ + + MES PHONE fin AV MES PHONE pre PK	50 40 30 20 10	* * * * *		a antipolitika a	e e e e e e e e e e e e e e e e e e e			
MES PHONE_pre PK MES PHONE_pre AV	MES PHONE_pre AV	50 40 30 20 10	* * * * 300k 400k 500k		2м. 2м.		5M 6M 7M	10M	
		50 40 30 20 10 0 150k * * * MES PHONI * * * MES PHONI	E_fin QP E fin AV		2м. 2м.		5M 6M 7M	10M	
		50 40 30 20 10 0 150k * * * MES PHONI + + HES PHONI	E_fin QP E_fin AV E_pre_PK		2м. 2м.		5M 6M 7M	10M	
MEASUREMENT RESULT: "PHONE_fin QP"		50 40 30 20 10 0 150k * * X MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI	E fin OP E fin AV E pre PK E pre AV	700k 1M	2M Frequency [F		5M 6M 7M	10M	
8/20/2009 4:15PM	8/20/2009 4:15PM	50 40 30 20 10 0 150k * * * MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI	E fin OP E fin AV E_pre PK E_pre AV NT RESULT: 4:15PM	700k 1M	2M Frequency [F	iz]		10M	
8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE	8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE	50 40 30 20 10 0 150k * * * MES PHONI * * + MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI	E_fin OP E_fin AV E_pre PK E_pre AV NT RESULT. 4:15PM Y Level	700k 1M	2M Frequency [F	z] Line		10M	
8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBμV dB dBμV dB	8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBμV dB dBμV dB	50 40 30 20 10 0 150k * * * MES PHONI * + + MES PHONI MES	E fin OP E fin AV E pre PK E pre AV NT RESULT 4:15PM Y Level z dBµV	700k 1M	2M Frequency [F	z] Line		10M	
8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBμV dB dBμV dB 0.302000 50.60 10.1 60 9.6	8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBμV dB dBμV dB 0.302000 50.60 10.1 60 9.6	50 40 30 20 10 0 150k * * * MES PHON MES PHON MES PHON MES PHON MES PHON MES PHON MES PHON MES PHON MES PHON MES PHON 0 0 0 0 0 0 0 0 0 0 0 0 0	E fin OP E fin AV E pre AV E pre AV NT RESULT. 4:15PM Y Level z dBµV 0 50.60	700k 1M 700k 1M Transd 1 dB 10.1	2M Frequency [F fin QP" Limit Margin dBpV dB 60 9.6	Line	PE	10M	
8/20/2009 4:15PM Frequency Level MHz dBµV dB dBµV 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2	8/20/2009 4:15PM Frequency Level MHz dBµV dB dBµV 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2	50 40 30 20 10 0 150k * * * MES PHON MES PHON M	E_fin OP E_fin AV E_pre AV NT RESULT. 4:15PM Y Level z dBµV 0 50.60 0 50.40	700k 1M 700k 1M Transd 1 dB 10.1 10.1	2M Frequency[F Limit Margin dBµV dB 60 9.6 59 8.2	Line	PE	10M	
8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB dB 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2 0.434000 55.30 10.1 57 1.9	8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB dB 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2 0.434000 55.30 10.1 57 1.9	50 40 30 20 10 0 150k * * * MES PHONI * * * MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI 0 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0	E_fin OP E_fin AV E_pre AV NT RESULT. 4:15PM Y Level z dBµV 0 50.60 0 50.40 0 55.30	700k 1M 700k 1M Transd 1 dB 10.1 10.1 10.1	2M Frequency [F 5 fin QP" Limit Margin dBµV dB 60 9.6 59 8.2 57 1.9	Line 	PE	10M	
8/20/2009 4:15PM Frequency Level MHz dBµV dBµV dB 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2	8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB Comparison Description 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2 0.434000 55.30 10.1 57 1.9 0.648000 56.10 10.1 56 -0.1	50 40 30 20 10 0 150k * * * MES PHONI * + MES PHONI MES PHONI MES PHONI MES PHONI 0 0 0 0 0 0 0 0 0 0 0 0 0	E fin OP E fin AV E pre AV E pre AV MT RESULT: 4:15PM y Level z dBµV 0 50.60 0 50.40 0 55.30 0 56.10	700k 1M 700k 1M Transd 1 dB 10.1 10.1 10.1 10.1	2M Frequency [F 2 fin QP" Limit Margin dBµV dB 60 9.6 59 8.2 57 1.9 56 -0.1	Line	PE	10M	
8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB dB PE 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2 0.434000 55.30 10.1 57 1.9 0.648000 56.10 10.1 56 -0.1 0.904000 53.70 10.1 56 4.9 1.192000 51.10 10.1 56 4.9	8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB dB PE 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2 0.434000 55.30 10.1 57 1.9 0.648000 56.10 10.1 56 -0.1 0.904000 53.70 10.1 56 4.9 1.192000 51.10 10.1 56 4.9	50 40 30 20 10 0 150k * * * MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI MES PHONI 0.30200 0.36200 0.43400 0.64800 0.90400 1.19200	E fin OP E fin AV E pre AV E pre AV NT RESULT: 4:15PM Y Level z dBµV 0 50.60 0 50.40 0 55.30 0 56.10 0 53.70 0 51.10	700k 1M 700k 1M 700k 1M Transd 1 dB 10.1 10.1 10.1 10.1 10.1 10.1	2M Frequency [F 2 fin QP" Limit Margin dBµV dB 60 9.6 59 8.2 57 1.9 56 -0.1 56 2.3 56 4.9	Line	PE	10M	
8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB Composition Description 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2 0.434000 55.30 10.1 57 1.9 0.648000 56.10 10.1 56 -0.1 0.904000 53.70 10.1 56 2.3	8/20/2009 4:15PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB dB U dB 0.302000 50.60 10.1 60 9.6 0.362000 50.40 10.1 59 8.2 0.434000 55.30 10.1 57 1.9 0.648000 56.10 10.1 56 -0.1 0.904000 53.70 10.1 56 2.3 1.192000 51.10 10.1 56 4.9 5.000000 43.80 10.3 56 12.2	50 40 30 20 10 0 150k X X X MES PHONI MES PHONI	E_fin OP E_fin AV E_pre AV MT RESULT. 4:15PM Y Level z dBµV 0 50.60 0 50.40 0 55.30 0 56.10 0 53.70 0 51.10 0 43.80	700k 1M 700k 1M 700k 1M Transd 1 dB 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.	2M Frequency [F 2 fin QP" Limit Margin dBµV dB 60 9.6 59 8.2 57 1.9 56 -0.1 56 2.3 56 4.9 56 12.2	Line	PE	10M	

MEASUREMENT RESULT: "PHONE_fin AV"

8/20/2009 4:	15PM					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.302000	38.80	10.1	50	11.4		
0.378000	38.70	10.1	48	9.6		

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 4 of 38



MEASUREMENT RESULT: "PHONE_fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.434000	44.60	10.1	47	2.6		
0.576000	38.90	10.1	46	7.1		
0.680000	42.30	10.1	46	3.7		
0.936000	39.60	10.1	46	6.4	-	-
5.256000	31.70	10.4	50	18.3		
5.472000	31.40	10.4	50	18.6		
5.544000	30.30	10.4	50	19.7		

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 5 of 38



Conducted emissions (Line 2 / Mid CH)

HCT EMC EUT: A300 Manufacturer: Cal-comp Electronics & Communications Company Limited Operating Condition: Bluetooth Mode Test Site: SHIELD ROOM Operator: YH-LEE Test Specification: CISPR22 Class B Comment: N

 SCAN TABLE:
 "CISPR22 CLASS
 B"

 Short Description:
 KN22 CLASS B

 Start
 Stop
 Detector M

 Frequency
 Frequency Width
 T

 150.0 kHz
 500.0 kHz
 4.0 kHz
 MaxPeak

 IF Detector Meas. Transducer Bandw. Time 10.0 ms 9 kHz None Average 500.0 kHz 5.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average 5.0 MHz 30.0 MHz 4.0 kHz MaxPeak 10.0 ms 9 kHz None Average Level [dBµV] 70 60 *** A HT CPM I M WHEND MAD AND BUT 50 AN PORT STREET ti shundhada 40 + + 1 30 where the state of the states 20 10 0 150k 4M 5M 6M 7M 300k 400k 500k 700k 1M 2M 3M 10M 20M 30M Frequency [Hz] × × × MES PHONE_fin QP + + + MES PHONE_fin AV MES PHONE_pre PK MES PHONE_pre AV

MEASUREMENT RESULT: "PHONE fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.358000	50.50	10.1	59	8.3		
0.430000	54.70	10.1	57	2.6		
0.500000	46.30	10.1	56	9.7		
0.644000	53.40	10.1	56	2.6		0.00
0.860000	50.60	10.1	56	5.4		-
0.932000	52.70	10.1	56	3.3		
5.024000	36.20	10.3	60	23.8		
5.096000	36.60	10.3	60	23.4		
5.596000	40.00	10.4	60	20.0		

MEASUREMENT RESULT: "PHONE fin AV"

8/20/2009 4:	:11PM					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.218000	38.10	10.1	53	14.7		
0.362000	40.00	10.1	49	8.7		

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 6 of 38



MEASUREMENT RESULT: "PHONE_fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.430000	44.10	10.1	47	3.2		
0.648000	43.40	10.1	46	2.6		
0.860000	37.90	10.1	46	8.1		
1.652000	38.80	10.1	46	7.2		
5.168000	20.70	10.4	50	29.3		
5.240000	21.80	10.4	50	28.2		
5.740000	21.20	10.4	50	28.8		

HCT PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 7 of 38



8. LIST OF EQUIPMENT

Manufacturer	Model / Equipment	Cal Interval	Calibration Due	Serial No.
Rohde & Schwarz	ESH2-Z5/ LISN	Annual	04/10/2010	861741/013
Rohde & Schwarz	ESH3-Z6/ LISN	Annual	06/13/2010	100329
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	12/18/2010	9160-3150
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	Annual	10/30/2009	375.8810.352
MITEQ	AMF-60-0010 1800-35-20P/AMP	Annual	05/20/2010	1200937
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	03/26/2010	147
Rohde & Schwarz	6502/Loop Antenna	Biennial	12/26/2009	9009-2536
Rohde & Schwarz	FSP30/Spectrum Analyzer	Annual	07/31/2010	839117/011
Agilent	E4416A /Power Meter	Annual	01/21/2010	GB41291412
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	Annual	06/29/2010	1
Hewlett Packard	11636B/Power Divider	Annual	12/24/2009	11377
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	01/07/2010	3110117

HCT PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-RF09-0809	Date of Issue: August 24, 2009	EUT Type: Tri-Band CDMA Phone with Bluetooth (CDMA/ PCS CDMA/ AWS CDMA)	FCC ID: US7-A300	Page 3 8 of 38