

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name: Pantech Co., Ltd.	Date of Issue: July 19, 2012 Test Site/Location:
Address:	HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon,
Pantech Bldg, I-2, DMC, Sangam-dong, Mapo-gu,	Icheon-si, Kyunggi-Do, Korea
Seoul, 121-792, Korea	Report No.: HCTR1207FR13
	HCT FRN: 0005866421

FCC ID : JYCPREMIAV

APPLICANT : Pantech Co., Ltd.

FCC Model(s):	ADR930LVW
EUT Type:	CDMA/GSM/LTE Phone with BT/WLAN/NFC
Max. RF Output Power:	Wi-Fi 802.11b (23.87 dBm) / Wi-Fi 802.11g (23.76 dBm)/ Wi-Fi 802.11n (2.4 GHz) (18.91 dBm) / Wi-Fi 802.11a (5.8 GHz) (19.37 dBm)/ Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (18.36 dBm) / Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (17.45 dBm)
Frequency Range:	2412 MHz - 2462 MHz (2.4 GHz Band) 5745 MHz - 5825 MHz (5.8 GHz Band)_20 MHz BW, 5755 MHz - 5795 MHz (5.8 GHz Band)_40 MHz BW
Modulation type	CCK/DSSS/OFDM
FCC Classification:	Digital Transmission System(DTS)
FCC Rule Part(s):	Part 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 subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Jong Seak Lee

Report prepared by : Jong Seok Lee Test engineer of RF Team

Approved by : Sang Jun Lee Manager of RF Team

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1207FR13	July 19, 2012	- First Approval Report

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FCC ID:	JYCPREMIAV
EUT Type:	CDMA/GSM/LTE Phone with BT/WLAN/NFC
Model name(s):	ADR930LVW
Date(s) of Tests:	May 08, 2012 ~ July 18, 2012
Place of Tests:	HCT Co., Ltd. 105-1, Jangam-ri , Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, KOREA. (IC Recognition No. : 5944A-3)

2. EUT DESCRIPTION

ЕИТ Туре	CDMA/GSM/LTE Phone with BT/WLAN/NFC		
FCC Model Name	ADR930LVW		
Power Supply	DC 3.7 V		
Battery type	Li-ion Battery(Standard)		
Frequency Range	TX: 2412 MHz ~ 2462 MHz, 5745 MHz – 5825 MHz_20 MHz, 5755 MHz - 5795 MHz_ 40 MHz RX: 2412 MHz ~ 2462 MHz, 5745 MHz – 5825 MHz_20 MHz, 5755 MHz - 5795 MHz_ 40 MHz		
Max. RF Output Power:	Peak Wi-Fi 802.11b (23.87 dBm) / Wi-Fi 802.11g (23.76 dBm)/ Wi-Fi 802.11n (2.4 GHz) (18.91 dBm) / Wi-Fi 802.11a (5.8 GHz) (19.37 dBm)/ Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (18.36 dBm) / Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (17.45 dBm)		
	Average Wi-Fi 802.11b (17.18 dBm) / Wi-Fi 802.11g (15.32 dBm)/ Wi-Fi 802.11n (2.4 GHz) (10.38 dBm) / Wi-Fi 802.11a (5.8 GHz) (11.67 dBm)/ Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (10.75 dBm) / Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (10.86 dBm)		
Modulation Type	DSSS/CCK(802.11b), OFDM(802.11a, 802.11g, 802.11n_20 MHz BW, 802.11n_40 MHz BW)		
Antenna Specification	Manufacturer: DONGNAM		
	Antenna type: FPCB Antenna		
	Peak Gain : 0.5 dBi (2.4 GHz Band), 0.5 dBi (5.8 GHz Band)		

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices(ANSI C63.10-2009) and FCC KDB 558074 D01 DTS Meas Guidance V01 dated January 18, 2012 entitled "Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) Operating Under §15.247" were used in the measurement.

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 6.2 of ANSI C63.10. (Version :2009) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz 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 6.3 of ANSI C63.10. (Version: 2009).

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.

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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 SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, 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 March 02, 2011 (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."

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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

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7. SUMMARY TEST OF RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
6 dB Bandwidth	§15.247(a)(2)	> 500 kHz		PASS
Conducted Maximum Peak Output Power	§15.247(b)(3)	< 1 Watt		PASS
Power Spectral Density	§15.247(e)	< 8 dBm / 3 kHz Band	CONDUCTED	PASS
Band Edge(Out of Band Emissions)	§15.247(d)	Conducted < 20 dBc		PASS
AC Power line Conducted Emissions	§15.207	cf. Section 8.6		PASS
Radiated Spurious Emissions	§15.205, 15.209	cf. Section 8.5.1	RADIATED	PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.5.2	RADIATED	PASS

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8. TEST RESULT

8.1 6 dB BANDWIDTH MEASUREMENT (802.11a/b/g/n)

Test Requirements and limit, §15.247(a)(2)

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6 dB bandwidth is 500 kHz.

TEST CONFIGURATION

TEST PROCEDURE

ı.

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to RBW = 1 – 5 % of the EBW VBW = 3 * RBW SPAN = 40 MHz(20 MHz BW) / 60 MHz(40 MHz BW) Detector = Peak Trace mode = max hold Sweep = auto couple

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802.11b Mo	ode	Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
2412	1	8.662	0.500	Pass
2437	6	8.324	0.500	Pass
2462	11	8.546	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11b

Conducted 6 dB Bandwidth Measurements for 802.11g

802.11g Mo	ode	Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
2412	1	16.540	0.500	Pass
2437	6	16.650	0.500	Pass
2462	11	16.560	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n(2.4 GHz Band)

802.11n Mo	ode	Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
2412	1	17.910	0.500	Pass
2437	6	17.830	0.500	Pass
2462	11	17.750	0.500	Pass

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802.11a Mode		Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Frequency [MHz]	[MHz]	[MHz]	Pass / Fail
5745	149	16.560	0.5	Pass
5785	157	16.570	0.5	Pass
5825	165	16.500	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11a

Conducted 6 dB Bandwidth Measurements for 802.11n_20 MHz BW(5.8 GHz Band)

802.11n Mo	ode	Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
5745	149	17.700	0.5	Pass
5785	157	17.770	0.5	Pass
5825	165	17.680	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_40 MHz BW(5.8 GHz Band)

802.11n Mode		Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
5755	151	36.020	0.5	Pass
5795	159	35.980	0.5	Pass

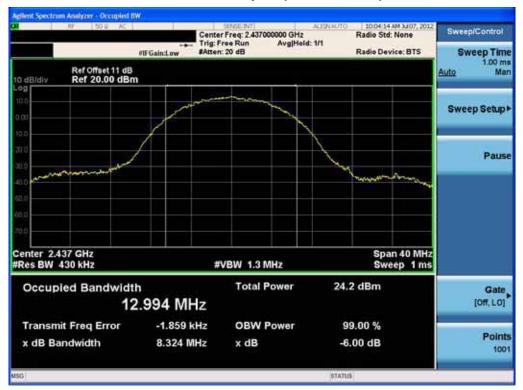
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6dB Bandwidth plot (802.11b-CH 1)



6dB Bandwidth plot (802.11b-CH 6)



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6dB Bandwidth plot (802.11b-CH 11)



6dB Bandwidth plot (802.11g-CH 1)



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6dB Bandwidth plot (802.11g-CH 6)

6dB Bandwidth plot (802.11g-CH 11)



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6dB Bandwidth plot (802.11n-CH 1)

6dB Bandwidth plot (802.11n-CH 6)



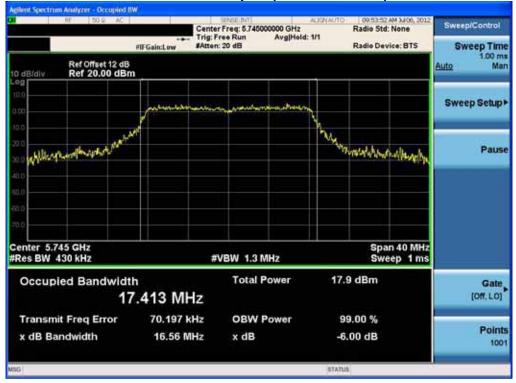
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6dB Bandwidth plot (802.11n-CH 11)



6dB Bandwidth plot (802.11a-CH 149)



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6dB Bandwidth plot (802.11a-CH 157)



6dB Bandwidth plot (802.11a-CH 165)



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6dB Bandwidth plot (802.11n-CH 149)



6dB Bandwidth plot (802.11n-CH 157)



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nt Spectrum Analyzer - Occupied BW Center Freq: 5.825000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 20 dB RF 10:12:24 AM 3406, 2012 Radio Std: None 50.9 ALIGNALITO Sweep/Control Sweep Time 1.00 ms Man #IFGain:Low Radio Device: BTS Ref Offset 12 dB Ref 20.00 dBm Auto 10 dB/div Log Sweep Setup > 44 -..... Mayny A. Babbill and allow Waterpool Summed Analysis Pause Center 5.825 GHz #Res BW 430 kHz Span 40 MHz Sweep 1 ms #VBW 1.3 MHz Total Power Occupied Bandwidth 17.1 dBm Gate 18.339 MHz -17.419 kHz Transmit Freq Error **OBW Power** 99.00 % Points x dB Bandwidth 17.68 MHz x dB -6.00 dB 1001 STATUS scii

6dB Bandwidth plot (802.11n-CH 165)

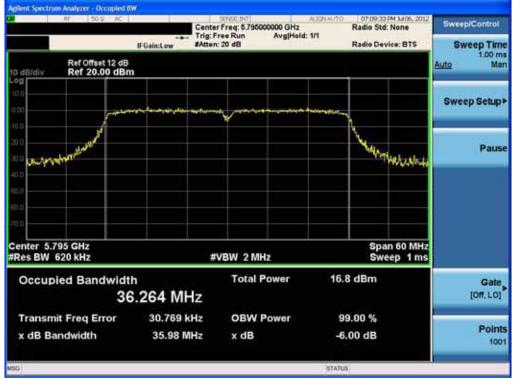
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6dB Bandwidth plot (802.11n-CH 151)



6dB Bandwidth plot (802.11n-CH 159)



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8.2 OUTPUT POWER MEASUREMENT (802.11a/b/g/n)

Test Requirements and limit, §15.247(b)(3)

A transmitter antenna terminal of EUT is connected to the input of a Spectrum Analyzer. Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

TEST CONFIGURATION

TEST PROCEDURE

...

The transmitter output is connected to the Spectrum Analyzer. We use the spectrum analyzer's integrated band power measurement function. We tested according to KDB 558074(issued 1/18/2012).

This EUT TX condition is actual operating mode(not near 100 % duty cycle) by WLAN test program.

The Spectrum Analyzer is set to

Peak Power(Measurement Procedure PK2 in KDB 558074)

RBW = 1 MHz

VBW = 3 MHz

SPAN = 5 - 30 % greater than the EBW

Detector Mode = Peak

Integrated bandwidth = EBW

Sweep = auto couple

Trace Mode = max hold

• Average Power(Measurement Procedure AVG2 in KDB 558074)

RBW = 1 MHz

VBW = 3 MHz

SPAN = 5 - 30 % greater than the EBW

Detector Mode = power averaging(RMS) or sample

Integrated bandwidth = EBW

Sweep = auto couple

Sweep Point = 1001

Trace average at least 100 traces in power averaging(RMS) mode

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Sample Calculation

Output Power = Reading Value + ATT loss + Cable loss(1 ea)

= 10 dBm + 10 dB + 0.8 dB = 20.8 dBm

Note :

- 1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the attenuator and cable combination.
- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is 11 dB at 2.4 GHz and 12 dB at 5 GHz. We used the particular cable type that is supported by manufacture.

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802.11b	Mode	Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		1 Mbps	20.17	30
2442	4	2 Mbps	20.48	30
2412	1	5.5 Mbps	22.41	30
		11 Mbps	23.75	30
	6	1 Mbps	20.61	30
0.407		2 Mbps	20.90	30
2437		5.5 Mbps	22.40	30
		11 Mbps	23.87	30
		1 Mbps	20.14	30
2462	11	2 Mbps	20.54	30
		5.5 Mbps	22.37	30
		11 Mbps	23.54	30

Conducted Output Power Measurements (802.11b Mode)

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Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	23.34	30
		9 Mbps	23.72	30
		12 Mbps	23.17	30
0440		18 Mbps	23.14	30
2412	1	24 Mbps	23.59	30
		36 Mbps	23.48	30
		48 Mbps	23.58	30
		54 Mbps	23.76	30
		6 Mbps	23.69	30
	6	9 Mbps	23.62	30
		12 Mbps	23.34	30
0.407		18 Mbps	23.37	30
2437		24 Mbps	23.64	30
		36 Mbps	23.66	30
		48 Mbps	23.68	30
		54 Mbps	23.75	30
		6 Mbps	22.39	30
		9 Mbps	22.55	30
		12 Mbps	22.22	30
2462	11	18 Mbps	22.30	30
2462	11	24 Mbps	22.60	30
		36 Mbps	22.52	30
		48 Mbps	22.74	30
		54 Mbps	22.79	30

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Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	18.72	30
		13 Mbps	18.59	30
		19.5 Mbps	18.32	30
2412	4	26 Mbps	18.87	30
2412	1	39 Mbps	18.81	30
		52 Mbps	18.60	30
		58.5 Mbps	18.71	30
		65 Mbps	18.91	30
		6.5 Mbps	18.43	30
	6	13 Mbps	18.34	30
		19.5 Mbps	18.28	30
2437		26 Mbps	18.72	30
2437		39 Mbps	18.61	30
		52 Mbps	18.64	30
		58.5 Mbps	18.52	30
		65 Mbps	18.76	30
		6.5 Mbps	17.67	30
		13 Mbps	17.44	30
		19.5 Mbps	17.30	30
2462	11	26 Mbps	17.83	30
2402		39 Mbps	17.73	30
		52 Mbps	17.67	30
		58.5 Mbps	17.70	30
		65 Mbps	17.77	30

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Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a	802.11a Mode		Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	19.15	30
		9 Mbps	18.86	30
		12 Mbps	18.47	30
5745	110	18 Mbps	18.39	30
5745	149	24 Mbps	18.65	30
		36 Mbps	18.30	30
		48 Mbps	18.42	30
		54 Mbps	18.57	30
		6 Mbps	18.78	30
	157	9 Mbps	18.83	30
		12 Mbps	19.02	30
5785		18 Mbps	18.94	30
5765		24 Mbps	19.37	30
		36 Mbps	18.55	30
		48 Mbps	18.43	30
		54 Mbps	18.67	30
		6 Mbps	18.66	30
		9 Mbps	18.64	30
		12 Mbps	18.43	30
5825	165	18 Mbps	18.48	30
JOZJ	105	24 Mbps	18.40	30
		36 Mbps	18.70	30
		48 Mbps	18.31	30
		54 Mbps	18.47	30

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Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n	Mode	Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	17.62	30
		13 Mbps	17.29	30
		19.5 Mbps	17.62	30
	4.40	26 Mbps	18.05	30
5745	149	39 Mbps	17.48	30
		52 Mbps	17.39	30
		58.5 Mbps	17.32	30
		65 Mbps	17.40	30
		6.5 Mbps	17.50	30
	157	13 Mbps	17.66	30
		19.5 Mbps	17.07	30
5705		26 Mbps	17.32	30
5785		39 Mbps	17.32	30
		52 Mbps	17.14	30
		58.5 Mbps	16.99	30
		65 Mbps	17.02	30
		6.5 Mbps	18.14	30
		13 Mbps	18.36	30
		19.5 Mbps	17.61	30
EDDE	165	26 Mbps	17.95	30
5825	COL	39 Mbps	17.65	30
		52 Mbps	17.62	30
		58.5 Mbps	17.74	30
		65 Mbps	17.51	30

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802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		13.5 Mbps	17.28	30
		27 Mbps	17.26	30
		40.5 Mbps	17.25	30
5755	151	54 Mbps	17.45	30
5755	151	81 Mbps	17.43	30
		108 Mbps	17.22	30
		121.5 Mbps	16.95	30
		135 Mbps	17.06	30
		13.5 Mbps	17.18	30
		27 Mbps	16.94	30
		40.5 Mbps	17.06	30
5795	159	54 Mbps	17.11	30
5795	159	81 Mbps	17.07	30
		108 Mbps	16.92	30
		121.5 Mbps	16.92	30
		135 Mbps	17.01	30

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

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802.11b Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		1 Mbps	17.18	30
2412	4	2 Mbps	17.00	30
2412	1	5.5 Mbps	17.17	30
		11 Mbps	16.48	30
	6	1 Mbps	16.97	30
0407		2 Mbps	16.81	30
2437		5.5 Mbps	16.97	30
		11 Mbps	16.71	30
	11	1 Mbps	16.92	30
2462		2 Mbps	16.91	30
		5.5 Mbps	16.82	30
		11 Mbps	16.31	30

Conducted Output Power Measurements (802.11b Mode)

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Conducted Output Power Measurements (802.11g Mode)

802.11g	Mode	Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	15.18	30
		9 Mbps	14.88	
		12 Mbps	14.66	30
0440		18 Mbps	14.25	30
2412	1	24 Mbps	13.84	30 30 30
		36 Mbps	13.24	
		48 Mbps	12.67	30
		54 Mbps	12.44	30
		6 Mbps	15.32	30
		9 Mbps	15.04	30
		12 Mbps	14.83	30
0.407	0	18 Mbps	14.37	30 30 30
2437	6	24 Mbps	13.93	
		36 Mbps	13.37	30
		48 Mbps	12.79	30
		54 Mbps	12.56	30
		6 Mbps	14.26	30
		9 Mbps	13.92	30
		12 Mbps	13.76	30
2462	11	18 Mbps	13.35	30
2462	11	24 Mbps	12.95	30
		36 Mbps	12.25	30
		48 Mbps	11.75	30 30
		54 Mbps	11.50	30

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Conducted Output Power Measurements (802.11n Mode)

802.11n	Mode	Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	10.38	30
		13 Mbps	9.87	30
		19.5 Mbps	9.42	30
0.440		26 Mbps	9.24	30
2412	1	39 Mbps	8.39	30 30 30
		52 Mbps	7.89	
		58.5 Mbps	7.68	30
		65 Mbps	7.53	30
		6.5 Mbps	10.17	30
		13 Mbps	9.64	30
		19.5 Mbps	9.23	30
0407	6	26 Mbps	8.76	30 30
2437	6	39 Mbps	8.21	
		52 Mbps	7.67	30
		58.5 Mbps	7.46	30
		65 Mbps	7.29	30
		6.5 Mbps	9.25	30
		13 Mbps	8.75	30
		19.5 Mbps	8.32	30
2462	44	26 Mbps	8.01	30
	11	39 Mbps	7.28	30
		52 Mbps	6.77	30 30
		58.5 Mbps	6.57	30
		65 Mbps	6.39	30

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Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a	Mode	Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	11.14	30
		9 Mbps	10.90	30
		12 Mbps	10.73	30
5745	140	18 Mbps	10.28	30
5745	149	24 Mbps	9.80	30 30
		36 Mbps	8.80	
		48 Mbps	8.72	30
		54 Mbps	8.54	30
		6 Mbps	11.67	30
		9 Mbps	11.31	30
		12 Mbps	10.98	30
5785	157	18 Mbps	10.46	30
5765	157	24 Mbps	10.21	30
		36 Mbps	9.54	30
		48 Mbps	9.13	30
		54 Mbps	8.90	30
		6 Mbps	11.28	30
		9 Mbps	11.12	30
		12 Mbps	10.89	30
5825	165	18 Mbps	10.59	30
	105	24 Mbps	9.97	30
		36 Mbps	9.11	30
		48 Mbps	8.88	30
		54 Mbps	8.42	30

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Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	10.18	30
		13 Mbps	9.71	30
		19.5 Mbps	9.27	30
5745	149	26 Mbps	8.95	30
5745	149	39 Mbps	8.25	30
		52 Mbps	7.65	30
		58.5 Mbps	7.45	30
		65 Mbps	7.28	30
		6.5 Mbps	9.87	30
		13 Mbps	9.32	30 30
		19.5 Mbps	9.11	
5705	157	26 Mbps	8.46	30
5785	157	39 Mbps	7.70	30
		52 Mbps	7.55	30
		58.5 Mbps	7.22	30
		65 Mbps	6.85	30
		6.5 Mbps	10.75	30
		13 Mbps	10.01	(dBm) 30 30 30 30 30 30 30 30 30 30
		19.5 Mbps	9.50	30
5825	165	26 Mbps	9.04	30
	COI	39 Mbps	8.46	30
		52 Mbps	8.53	30
		58.5 Mbps	7.88	30
		65 Mbps	7.64	30

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Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		13.5 Mbps	10.86	30
		27 Mbps	10.43	30
		40.5 Mbps	10.05	30
6766	454	54 Mbps	9.66	30
5755	151	81 Mbps	9.14	30
		108 Mbps	8.75	30
		121.5 Mbps	8.58	30
		135 Mbps	8.50	30
		13.5 Mbps	9.80	30
		27 Mbps	9.38	30
		40.5 Mbps	8.99	30
E70E	450	54 Mbps	8.63	30
5795	159	81 Mbps	8.17	30
		108 Mbps	7.85	30
		121.5 Mbps	7.53	30
		135 Mbps	7.52	30

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RESULT PLOTS-Peak





Conducted Output Power (802.11b-CH 1) 2Mbps



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m Analyzer - Channel Po 10-29-30 AM 3407, 2012 Radio Std: None Sweep/Control Center Freq: 2.412000000 GHz riFGain:Low FAtten: 20 dB Avg|Hold>1/1 Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 0 dB/div 00 Sweep Setup > Pause Span 17.11 MHz Sweep 1 ms Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 22.41 dBm / 13.16 MHz -48.78 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11b-CH 1) 5.5Mbps

Conducted Output Power (802.11b-CH 1) 11Mbps



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m Analyzer - Channel Pow 10:32:00 AM 3407, 2012 Radio Std: None Center Freq: 2.437000000 GHz Trig: Free Run Avg[Hold: 1/1 Sweep/Control Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 0 dB/div 00 Sweep Setup > Pause Span 16.89 MHz Sweep 1 ms Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] -50.53 dBm /Hz 20.61 dBm / 12.99 MHz Points 1001 STATUS

Conducted Output Power (802.11b-CH 6) 1Mbps

Conducted Output Power (802.11b-CH 6) 2Mbps



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Conducted Output Power (802.11b-CH 6) 5.5Mbps

Conducted Output Power (802.11b-CH 6) 11Mbps



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m Analyzer - Channel Po 10-41-43 AM 3207, 2012 Radio Std: None Sweep/Control Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 1/1 riFGain:Low FAtten: 20 dB Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 10 dB/div -00 Sweep Setup > Pause Span 16.99 MHz Sweep 1 ms Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 20.14 dBm / 13.07 MHz -51.02 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11b-CH 11) 1Mbps

Conducted Output Power (802.11b-CH 11) 2Mbps



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m Analyzer - Channel Po 10-42-27 AM 3407, 2012 Radio Std: None Sweep/Control Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 1/1 riFGain:Low FAtten: 20 dB Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 10 dB/div -00 Sweep Setup > Pause Span 16.99 MHz Sweep 1 ms Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 22.37 dBm / 13.07 MHz -48.79 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11b-CH 11) 5.5Mbps

Conducted Output Power (802.11b-CH 11) 11Mbps



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Conducted Output Power (802.11g-CH 1) 6Mbps

Conducted Output Power (802.11g-CH 1) 9Mbps



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Conducted Output Power (802.11g-CH 1) 12Mbps

Conducted Output Power (802.11g-CH 1) 18Mbps



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Conducted Output Power (802.11g-CH 1) 24Mbps

Conducted Output Power (802.11g-CH 1) 36Mbps



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Conducted Output Power (802.11g-CH 1) 48Mbps

Conducted Output Power (802.11g-CH 1) 54Mbps



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Conducted Output Power (802.11g-CH 6) 6Mbps

Conducted Output Power (802.11g-CH 6) 9Mbps



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Conducted Output Power (802.11g-CH 6) 12Mbps

Conducted Output Power (802.11g-CH 6) 18Mbps



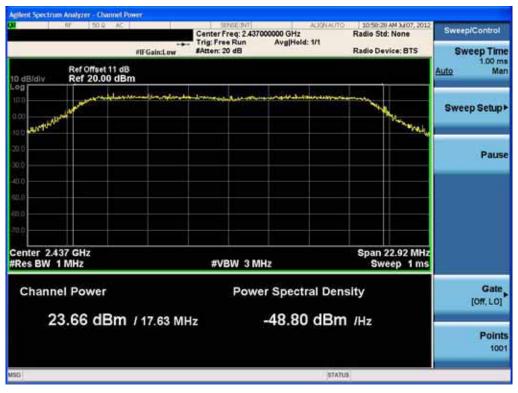
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
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Conducted Output Power (802.11g-CH 6) 24Mbps

Conducted Output Power (802.11g-CH 6) 36Mbps



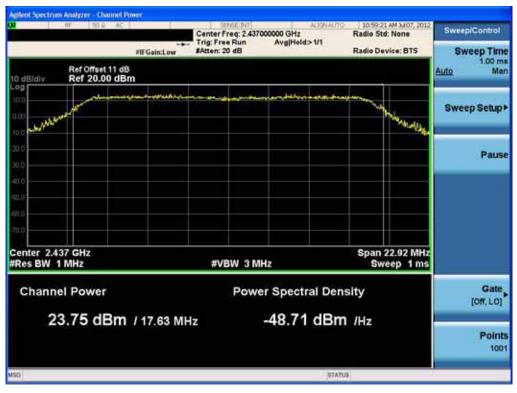
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
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Conducted Output Power (802.11g-CH 6) 48Mbps

Conducted Output Power (802.11g-CH 6) 54Mbps



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m Analyzer - Channel Ps 11:02:56 AM 3407, 2012 Radio Std: None Sweep/Control Center Freq: 2.462000000 GHz riFGain:Low FAtten: 20 dB Avg|Hold: 1/1 Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 0 dB/div 00 Sweep Setup > N. H. .. Pause Span 22.98 MHz Sweep 1 ms Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 22.39 dBm / 17.68 MHz -50.08 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11g-CH 11) 6Mbps

Conducted Output Power (802.11g-CH 11) 9Mbps



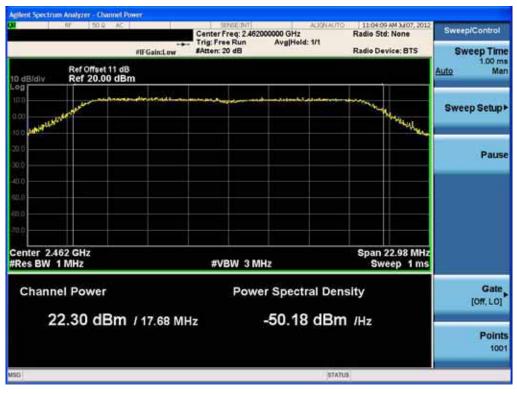
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
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m Analyzer - Channel Ps 11:03:50 AM 34:07, 2012 Radio Std: None Sweep/Control Center Freq: 2.462000000 GHz riFGain:Low FAtten: 20 dB Avg|Hold: 1/1 Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 0 dB/div 00 Sweep Setup > Trate Pause Span 22.98 MHz Sweep 1 ms Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 22.22 dBm / 17.68 MHz -50.25 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11g-CH 11) 12Mbps

Conducted Output Power (802.11g-CH 11) 18Mbps



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m Analyzer - Channel Ps 11:04:45 AM 34:07, 2012 Radio Std: None Sweep/Control Center Freq: 2.462000000 GHz riFGain:Low FAtten: 20 dB Avg|Hold: 1/1 Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 0 dB/div 00 Sweep Setup > - million Pause Span 22.98 MHz Sweep 1 ms Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Gate_ **Channel Power Power Spectral Density** [Off, LO] 22.60 dBm / 17.68 MHz -49.87 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11g-CH 11) 24Mbps

Conducted Output Power (802.11g-CH 11) 36Mbps



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m Analyzer - Channel Po 11:05:25 AM 34:07, 2012 Radio Std: None Sweep/Control Center Freq: 2.462000000 GHz riFGain:Low FAtten: 20 dB Avg|Hold: 1/1 Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 0 dB/div 00 Sweep Setup > H-m Pause Span 22.98 MHz Sweep 1 ms Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz **Channel Power** Gate_ **Power Spectral Density** [Off, LO] 22.74 dBm / 17.68 MHz -49.74 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11g-CH 11) 48Mbps

Conducted Output Power (802.11g-CH 11) 54Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC		JYCPREMIAV		
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Conducted Output Power (802.11n-CH 1) 6.5Mbps

Conducted Output Power (802.11n-CH 1) 13Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11n-CH 1) 19.5Mbps

Conducted Output Power (802.11n-CH 1) 26Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11n-CH 1) 39Mbps

Conducted Output Power (802.11n-CH 1) 52Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC		JYCPREMIAV		
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Conducted Output Power (802.11n-CH 1) 58.5Mbps

Conducted Output Power (802.11n-CH 1) 65Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11n-CH 6) 6.5Mbps

Conducted Output Power (802.11n-CH 6) 13Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC		JYCPREMIAV		
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Conducted Output Power (802.11n-CH 6) 19.5Mbps

Conducted Output Power (802.11n-CH 6) 26Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC		JYCPREMIAV		
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Conducted Output Power (802.11n-CH 6) 39Mbps

Conducted Output Power (802.11n-CH 6) 52Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC		JYCPREMIAV		
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Conducted Output Power (802.11n-CH 6) 58.5Mbps

Conducted Output Power (802.11n-CH 6) 65Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11n-CH 11) 6.5Mbps

Conducted Output Power (802.11n-CH 11) 13Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11n-CH 11) 19.5Mbps

Conducted Output Power (802.11n-CH 11) 26Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11n-CH 11) 39Mbps

Conducted Output Power (802.11n-CH 11) 52Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11n-CH 11) 58.5Mbps

Conducted Output Power (802.11n-CH 11) 65Mbps



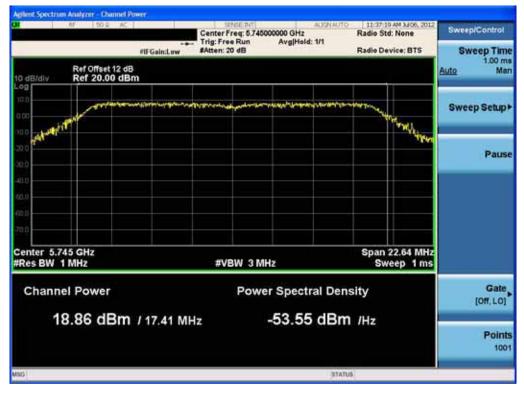
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 149) 6 Mbps



Conducted Output Power (802.11a-CH 149) 9 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 149) 12 Mbps

Conducted Output Power (802.11a-CH 149) 18 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 149) 24 Mbps

Conducted Output Power (802.11a-CH 149) 36 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 149) 48 Mbps

Conducted Output Power (802.11a-CH 149) 54 Mbps

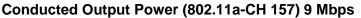


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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t Spectrum Analyzer - Channel P 01:00:34 PM 3406, 2012 Radio Std: None Center Freq: 5.785000000 GHz Trig: Free Run Avg[Hold: 1/1 #Atten: 20 dB ALIGNALITO Sweep/Control #IFGain:Low Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 12 dB Ref 20.00 dBm Auto 10 dB/dis 00 Sweep Setup YTHE Pause Center 5.785 GHz #Res BW 1 MHz Span 22.4 MHz Sweep 1 ms #VBW 3 MHz Gate **Channel Power Power Spectral Density** 18.78 dBm / 17.23 MHz -53.58 dBm /Hz Points 1001 STATUS 50

Conducted Output Power (802.11a-CH 157) 6 Mbps





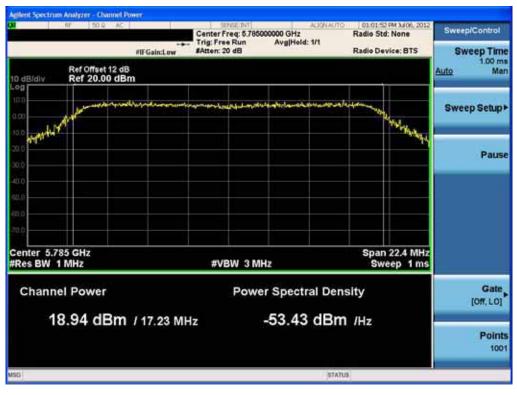
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 157) 12 Mbps

Conducted Output Power (802.11a-CH 157) 18 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 157) 24 Mbps

Conducted Output Power (802.11a-CH 157) 36 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 157) 48 Mbps

Conducted Output Power (802.11a-CH 157) 54 Mbps

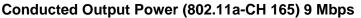


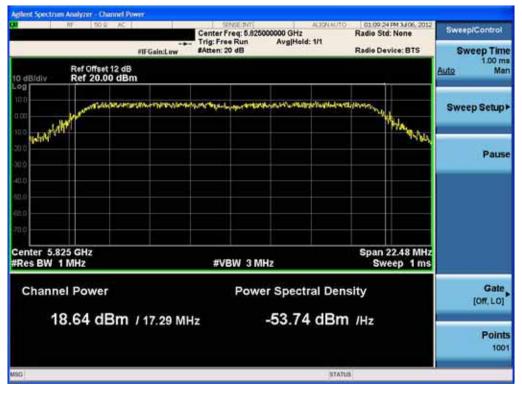
FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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t Spectrum Analyzer - Channel J 01:00:52 PM 3406, 2012 Radio Std: None Center Freq: 5.825000000 GHz Trig: Free Run Avg[Hold: 1/1 #Atten: 20 dB ALIGNALITO Sweep/Control #IFGain:Low Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 12 dB Ref 20.00 dBm Auto 10 dB/dis 00 Sweep Setup Arra alter Mary Pause Center 5.825 GHz #Res BW 1 MHz Span 22.48 MHz Sweep 1 ms #VBW 3 MHz Gate **Channel Power Power Spectral Density** 18.66 dBm / 17.29 MHz -53.72 dBm /Hz Points 1001 STATUS 50

Conducted Output Power (802.11a-CH 165) 6 Mbps





FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	ЕИТ Туре:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11a-CH 165) 12 Mbps

Conducted Output Power (802.11a-CH 165) 18 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11a-CH 165) 24 Mbps

Conducted Output Power (802.11a-CH 165) 36 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11a-CH 165) 48 Mbps

Conducted Output Power (802.11a-CH 165) 54 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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20 MHz BW

(5745 MHz ~5825 MHz)

Conducted Output Power (802.11n-CH 149) 6.5 Mbps



Conducted Output Power (802.11n-CH 149) 13 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC		JYCPREMIAV		
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Conducted Output Power (802.11n-CH 149) 19.5 Mbps

Conducted Output Power (802.11n-CH 149) 26 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC		JYCPREMIAV		
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Conducted Output Power (802.11n-CH 149) 39 Mbps

Conducted Output Power (802.11n-CH 149) 52 Mbps



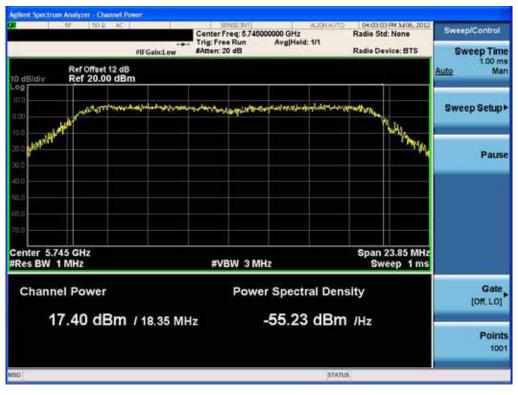
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11n-CH 149) 58.5 Mbps

Conducted Output Power (802.11n-CH 149) 65 Mbps

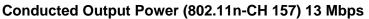


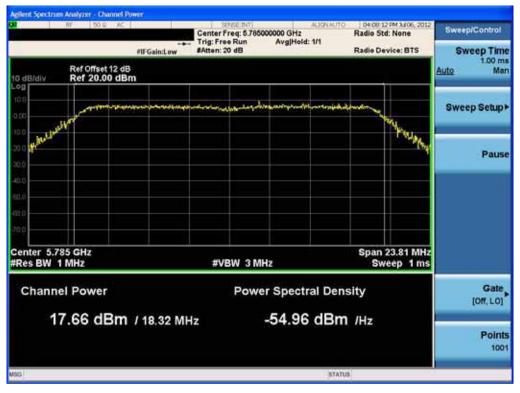
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:			
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV			
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Spectrum Analyzer - Channel J SHALERT ALDIALTO Center Freq: 5.765000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 20 dB 04:07:45 PM 3406, 2012 Radio Std: None Sweep/Control #IFGain:Low Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 12 dB Ref 20.00 dBm Auto 10 dB/dis .00 Sweep Setup A+ 1-14 "m 100 Whow Web Pause Center 5.785 GHz #Res BW 1 MHz Span 23.81 MHz Sweep 1 ms #VBW 3 MHz Gate **Channel Power Power Spectral Density** 17.50 dBm / 18.32 MHz -55.13 dBm /Hz Points 1001 STATUS 50

Conducted Output Power (802.11n-CH 157) 6.5 Mbps





FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11n-CH 157) 19.5 Mbps

Conducted Output Power (802.11n-CH 157) 26 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 157) 39 Mbps

Conducted Output Power (802.11n-CH 157) 52 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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Conducted Output Power (802.11n-CH 157) 58.5 Mbps

Conducted Output Power (802.11n-CH 157) 65 Mbps

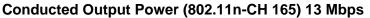


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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it Spectrum Analyzer - Channel P Center Freq: 5.825000000 GHz Trig: Freq: 6.825000000 GHz Trig: Freq: 6.825000000 GHz Atten: 20 dB 04-18-23 PM 3406, 2012 Radio Std: None Sweep/Control #IFGain:Low Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 12 dB Ref 20.00 dBm Auto 10 dB/di .00 Sweep Setup The all white 10.00 Pause Center 5.825 GHz #Res BW 1 MHz Span 25 MHz Sweep 1 ms #VBW 3 MHz Gate **Channel Power Power Spectral Density** 18.14 dBm / 18.34 MHz -54.50 dBm /Hz Points 1001 STATUS scii

Conducted Output Power (802.11n-CH 165) 6.5 Mbps





FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV	
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Conducted Output Power (802.11n-CH 165) 19.5 Mbps

Conducted Output Power (802.11n-CH 165) 26 Mbps



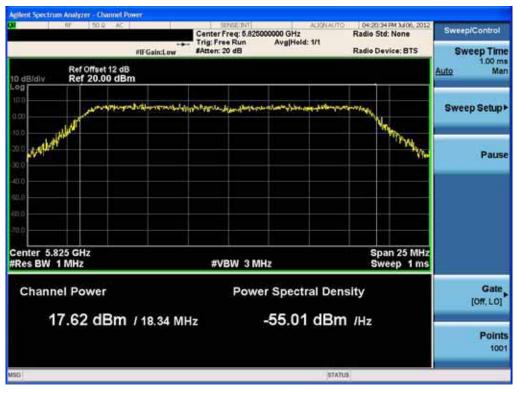
FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 165) 39 Mbps

Conducted Output Power (802.11n-CH 165) 52 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 165) 58.5 Mbps

Conducted Output Power (802.11n-CH 165) 65 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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40 MHz BW

(5755 MHz ~5795 MHz)

Conducted Output Power (802.11n-CH 149) 13.5 Mbps



Conducted Output Power (802.11n-CH 149) 27 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 149) 40.5 Mbps

Conducted Output Power (802.11n-CH 149) 54 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	July 19, 2012 CDMA/GSM/LTE Phone with BT/WLAN/NFC	
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Conducted Output Power (802.11n-CH 149) 81 Mbps

Conducted Output Power (802.11n-CH 149) 108 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 149) 121.5 Mbps

Conducted Output Power (802.11n-CH 149) 135 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 149) 13.5 Mbps

Conducted Output Power (802.11n-CH 149) 27 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	ЕИТ Туре:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 149) 40.5 Mbps

Conducted Output Power (802.11n-CH 149) 54 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 149) 81 Mbps

Conducted Output Power (802.11n-CH 149) 108 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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Conducted Output Power (802.11n-CH 149) 121.5 Mbps

Conducted Output Power (802.11n-CH 149) 135 Mbps



FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV
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RESULT PLOTS-Average

Conducted Output Power (802.11b-CH 1) 1Mbps



Conducted Output Power (802.11b-CH 1) 2Mbps



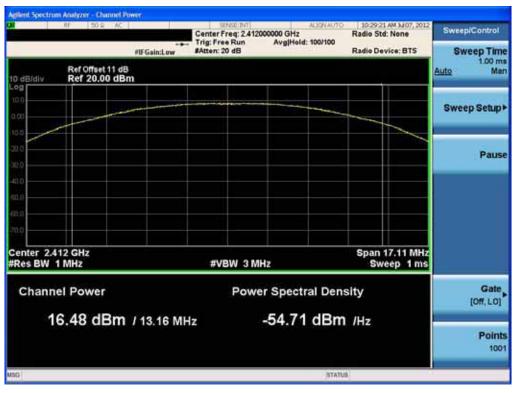
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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m Analyzer - Channel Po 10-29-45 AM 3407, 2012 Radio Std: None Sweep/Control Center Freq: 2.412000000 GHz riFGain:Low FAtten: 20 dB Avg|Hold: 100/100 Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 10 dB/div -00 Sweep Setup > Pause Span 17.11 MHz Sweep 1 ms Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 17.17 dBm / 13.16 MHz -54.02 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11b-CH 1) 5.5Mbps

Conducted Output Power (802.11b-CH 1) 11Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1207FR13	July 19, 2012	CDMA/GSM/LTE Phone with BT/WLAN/NFC	JYCPREMIAV		
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m Analyzer - Channel Pow 10:35:28 AM 3407, 2012 Radio Std: None Sweep/Control Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 100/100 riFGain:Low FAtten: 20 dB Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 10 dB/div -00 Sweep Setup > Pause Span 16.89 MHz Sweep 1 ms Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 16.97 dBm / 12.99 MHz -54.17 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11b-CH 6) 1Mbps

Conducted Output Power (802.11b-CH 6) 2Mbps



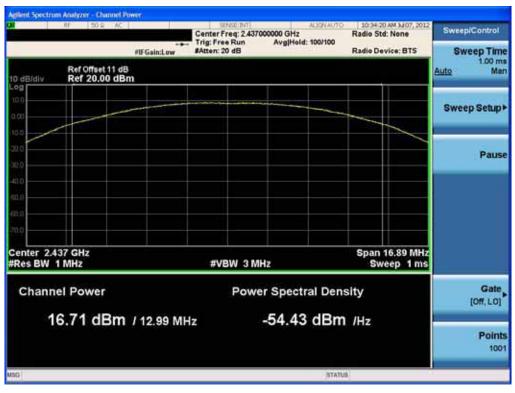
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr		
Test Report No.	Date of Issue:	ЕИТ Туре:	FCC ID:		
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m Analyzer - Channel Pos 10:34-38 AM 34/07, 2012 Radio Std: None Sweep/Control Center Freq: 2.437000000 GHz Trig: Free Run Avg|Hold: 100/100 riFGain:Low FAtten: 20 dB Radio Device: BTS Sweep Time 1.00 ms Man Ref Offset 11 dB Ref 20.00 dBm Auto 10 dB/div -00 Sweep Setup > Pause Span 16.89 MHz Sweep 1 ms Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Gate **Channel Power Power Spectral Density** [Off, LO] 16.97 dBm / 12.99 MHz -54.17 dBm /Hz Points 1001 STATUS

Conducted Output Power (802.11b-CH 6) 5.5Mbps

Conducted Output Power (802.11b-CH 6) 11Mbps



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