

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name: Franklin Wireless Corp	Date of Issue: October 4, 2012 Location:
Address: 6205 Lusk Blvd, San Diego CA 92121	HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, Korea Test Report No.: HCTR1208FR24-2 HCT FRN: 0005866421

FCC ID : RB2-U772

APPLICANT : Franklin Wireless Corp

FCC Model(s): EUT Type: Tx Frequency:	U772 Cellular/PCS CDMA & LTE USB Dongle with WLAN 824.70 — 848.31 MHz (CDMA) 1 851.25 — 1 908.75 MHz (PCS CDMA)
Rx Frequency:	869.70 — 893.31 MHz (CDMA) 1 931.25 — 1 988.75 MHz (PCS CDMA)
Max. RF Output Power:	When connected to the USB port of the computer : 0.159 W ERP CDMA (22.01 dBm)/ 0.624 W EIRP PCS CDMA (27.95 dBm) 0.189 W ERP CDMA EVDO (22.77 dBm)/ 0.733 W EIRP PCS EVDO (28.65 dBm) When connected to the AC-USB adaptor : 0.370 W ERP CDMA (25.68 dBm)/ 0.533 W EIRP PCS CDMA (27.27 dBm) 0.400 W ERP CDMA EVDO (26.02 dBm)/ 0.673 W EIRP PCS EVDO (28.28 dBm)
Emission Designator(s):	1M28F9W (CDMA), 1M28F9W (PCS CDMA), 1M28F9W (CDMA EVDO), 1M28F9W (PCS CDMA EVDO)
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§22, §24, §2

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. **HCT CO., LTD.** Certifies that no party to this application has 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)

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

Approved by : Chang Seok Choi Manager of RF Team

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FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No. Date of Issue: EUT Type: HCTR1208FR24-2 October 4, 2012 Cellular/PCS CDMA & LTE USB Dongle with WLAN		FCC ID: RB2-U772	
$D_{} = 1 - f_{-} f_{-}^{-1} T_{-}^{-1}$			



<u>Version</u>

TEST REPORT NO. DATE		DESCRIPTION
HCTR1208FR24	August 16, 2012	- First Approval Report
HCTR1208FR24-1 September 18, 2012		-Add EIRP and RSE test results for the case that the EUT is
HG1R1200FR24-1	September 18, 2012	connected to AC-USB adaptor.
HCTR1208FR24-2 October 4, 2012		-Revise antenna specification.

FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



Table of Contents

1. GENERAL INFORMATION	. 4
2. INTRODUCTION	. 5
2.1. EUT DESCRIPTION	. 5
2.2. MEASURING INSTRUMENT CALIBRATION	. 5
2.3. TEST FACILITY	. 5
3. DESCRIPTION OF TESTS	. 6
3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER	. 6
3.2 PEAK- TO- AVERAGE RATIO	. 7
3.3 OCCUPIED BANDWIDTH	. 8
3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	. 9
3.5 RADIATED SPURIOUS AND HARMOMIC EMISSIONS 1	0 ו
3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 1	1
4. LIST OF TEST EQUIPMENT 1	12
5. SUMMARY OF TEST RESULTS 1	13
6. SAMPLE CALCULATION 1	4
7. TEST DATA 1	5
7.1 CONDUCTED OUTPUT POWER 1	5
7.2 PEAK-TO-AVERAGE RATIO 1	6
7.3 OCCUPIED BANDWIDTH 1	6
7.4 CONDUCTED SPURIOUS EMISSIONS 1	
7.4.1 Band Edge 1	7
7.5 EFFECTIVE RADIATED POWER OUTPUT 1	8 1
7.6 EQUIVALENT ISOTROPIC RADIATED POWER 2	2 0
7.7 RADIATED SPURIOUS EMISSIONS	22
7.7.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)	2 2
7.7.2 RADIATED SPURIOUS EMISSIONS (PCS Mode)	24
7.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	26
7.8.1 FREQUENCY STABILITY (CDMA) 2	26
7.8.2 FREQUENCY STABILITY (PCS CDMA) 2	27
8. TEST PLOTS	28

FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	Franklin Wireless Corp
Address:	6205 Lusk Blvd, San Diego CA 92121
FCC ID:	RB2-U772
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§22, §24, §2,
EUT Type:	Cellular/PCS CDMA & LTE USB Dongle with WLAN
FCC Model(s):	U772
Tx Frequency:	824.70 — 848.31 MHz (CDMA) 1 851.25 — 1 908.75 MHz (PCS CDMA)
Rx Frequency:	869.70 — 893.31 MHz (CDMA) 1 931.25 — 1 988.75 MHz (PCS CDMA)
Max. RF Output	When connected to the USB port of the computer :
Power:	0.159 W ERP CDMA (22.01 dBm)/ 0.624 W EIRP PCS CDMA (27.95 dBm) 0.189 W ERP CDMA EVDO (22.77 dBm)/ 0.733 W EIRP PCS EVDO (28.65 dBm)
	When connected to the AC-USB adaptor : 0.370 W ERP CDMA (25.68 dBm)/ 0.533 W EIRP PCS CDMA (27.27 dBm) 0.400 W ERP CDMA EVDO (26.02 dBm)/ 0.673 W EIRP PCS EVDO (28.28 dBm)
Emission Designator(s):	1M28F9W (CDMA), 1M28F9W (PCS CDMA), 1M28F9W (CDMA EVDO), 1M28F9W (PCS CDMA EVDO)
Date(s) of Tests:	July 23, 2012 ~ September 18, 2012
Antenna Specification	Manufacturer: KWANG HYUN AIRTECH
	Antenna type: Monopole Antenna
	Peak Gain: CDMA : -3.10 dBi
	PCS CDMA : 0.80 dBi

FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



2. INTRODUCTION

2.1. EUT DESCRIPTION

The U772 Cellular/PCS CDMA & LTE USB Dongle with WLAN consists of Cellular CDMA, PCS CDMA, 1xRTT and EVDO Rev.0,A.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

The 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 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated March 02, 2011 (Registration Number: 90661)

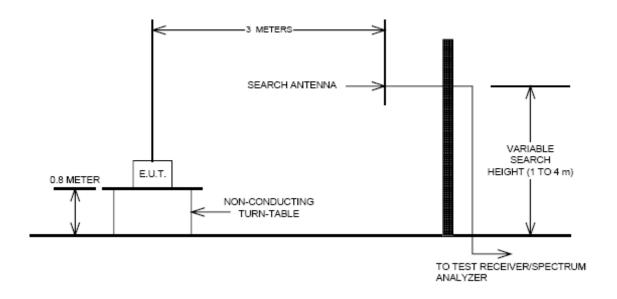
FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



3. DESCRIPTION OF TESTS

3.1 EFFECTIVE RADIATED POWER/EQUIVALENT ISOTROPIC RADIATED POWER

Test Set-up



Test Procedure

emission measurements were performed at an Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters from the receive antenna. A turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

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

FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



3.2 PEAK- TO- AVERAGE RATIO

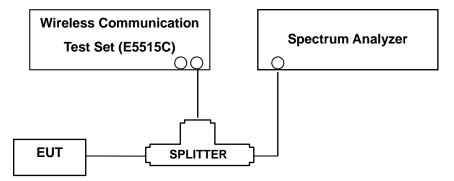
A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA and WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT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

FCC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No.	Test Report No. Date of Issue: EUT Type:		FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



3.3 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels(low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



3.4 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

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

The EUT was setup to maximum output power at its lowest channel. The Resolution BW of the analyzer is set to < 1 % of the emission bandwidth to show compliance with the – 13 dBm limit, in the 1 MHz bands immediately outside and adjacent to the edge of the frequency block. The 1 MHz RBW was used to scan from 10 MHz to 10 GHz. (GSM1900 Mode: 10 MHz to 20 GHz). A display line was placed at – 13 dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

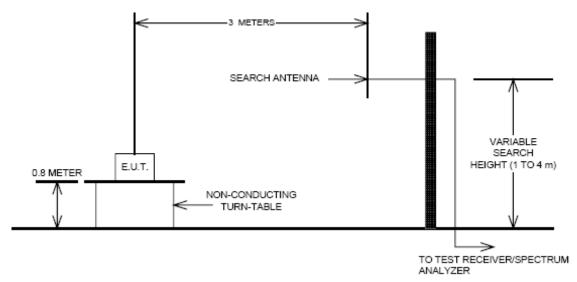
- Band Edge Requirement : In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



3.5 RADIATED SPURIOUS AND HARMOMIC EMISSIONS

Test Set-up



The measurement facilities used for this test have been documented in previous filings with the commission pursuant to section § 2.948. The Fully-anechoic chamber meets requirements in ANSI C63.4 –2003. A mast capable of lifting the receiving antenna from a height of one to four meters is used together with a rotatable platform mounted at three from the antenna mast.

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

Test Procedure

The equipment under test is placed on a non-conductive table 3-meters from the receive antenna. A turntable was rotated 360° and the receiving antenna scanned from 1-4m in order to capture the maximum emission. A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the previously recorded signal was duplicated.

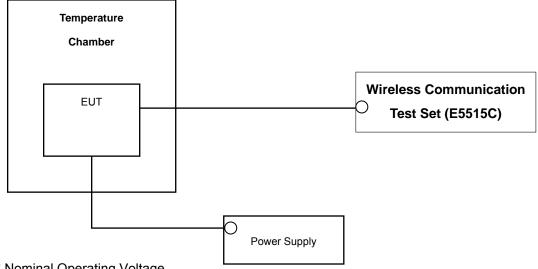
The maximum EIRP was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried out with the receiving antenna in both vertical and horizontal polarization. For readings above 1GHz, the above procedure is repeated using horn antennas and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

FCC CERTIFICATION REPORT						
Test Report No.	Date of Issue:	EUT Type:	FCC ID:			
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772			



3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



* Nominal Operating Voltage

Test Procedure

The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.

b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point to 115 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within \pm 0.000 25 %(\pm 2.5 ppm) of the center frequency.

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference). 1. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
Agilent	E9327A/ Power Sensor	MY4442009	Annual	05/02/2013
R&S	CMW500/ Base Station	1201.0002K50_116858	Annual	01/17/2013
MITEQ	AMF-6D-001180-35-20P/AMP	1081666	Annual	09/11/2013
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	05/02/2013
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	05/02/2013
Hewlett Packard	11667B / Power Splitter	10126	Annual	11/04/2012
Digital	EP-3010/ Power Supply	3110117	Annual	11/07/2012
Schwarzbeck	UHAP/ Dipole Antenna	557	Biennial	03/11/2013
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	03/11/2013
Korea Engineering	KR-1005L / Chamber	KRAB05063-3CH	Annual	11/07/2012
Schwarzbeck	BBHA 9120D/ Horn Antenna	296	Biennial	02/20/2014
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	05/02/2013
WEINSCHEL	ATTENUATOR	BR0592	Annual	11/07/2012
REOHDE&SCHWARZ	FSV40/Spectrum Analyzer	1307.9002K40-100931-NK	Annual	06/11/2013
Agilent	8960 (E5515C)/ Base Station	GB44400269	Annual	02/10/2013

FCC CERTIFICATION REPORT						
Test Report No.	Date of Issue:	EUT Type:	FCC ID:			
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772			
Page 1.2 of 47						



5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 22.917(a), 24.238(a)	Occupied Bandwidth	N/A		PASS
2.1051, 22.917(a), 24.238(a)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 + 10log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions	OONDUOTED	PASS
2.1046	Conducted Output Power	N/A	CONDUCTED	5400
24.232(d)	Peak- to- Average Ratio	< 13 dB		PASS
2.1055, 22.355, 24.235	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP		PASS
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP	RADIATED	PASS
2.1053, 22.917(a), 24.238(a)	Radiated Spurious and Harmonic Emissions	< 43 + 10log ₁₀ (P[Watts]) for all out-of band emissions		PASS

FCC CERTIFICATION REPORT						
Test Report No.	Date of Issue:	EUT Type:	FCC ID:			
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772			
Page 1.2 of 47						



6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mada	Ch./ Freq.		Measured	Substitude	Ant. Gain	<u></u>	Del	EF	RP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	(dBd)	C.L	Pol.	w	dBm
CDMA	384	836.52	-10.96	24.81	2.50	1.19	Н	0.41	26.12

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

1) The EUT mounted on a non-conductive tuntable is 0.8 meter above test site ground level.

2) During the test, the turn table is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.

3) Record the field strength meter's level.

4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.

5) Increase the signal generator output till the field strength meter's level is equal to the item (3).

6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (**ERP**).

B. Emission Designator CDMA Emission Designator

Emission Designator = 1M27F9W

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

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

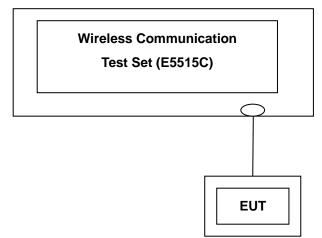
FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2 Oc	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



7. TEST DATA

7.1 CONDUCTED OUTPUT POWER

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



Band Channel	SO2	SO2	SO55	SO55	TDSO SO32	1xEvDO Rev.O	1xEvDO Rev.O	1xEvDO Rev.1	1xEvDO Rev.1	
	RC1/1 (dBm)	RC3/3 (dBm)	RC1/1 (dBm)	RC3/3 (dBm)	RC3/3 (dBm)	(FTAP)	(RTAP)	(FETAP)	(RETAP)	
	1013	23.80	23.85	23.85	23.86	23.88	23.67	24.00	23.56	23.59
CDMA	384	23.60	23.58	23.57	23.56	23.67	23.56	23.83	23.77	23.69
	777	23.51	23.53	23.52	23.54	23.59	23.61	23.63	23.49	23.52
	25	23.71	23.52	23.71	23.51	23.51	23.63	23.84	23.65	23.71
PCS	600	23.74	23.72	23.72	23.62	23.66	23.79	24.00	23.73	23.71
	1175	23.79	23.68	23.62	23.57	23.57	23.76	23.82	23.68	23.65

(Maximum Conducted Output Powers)

Note : Detecting mode is average.

FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



7.2 PEAK-TO-AVERAGE RATIO

- Plots of the EUT's Peak- to- Average Ratio are shown Page 33.

7.3 OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (MHz)
	1013	824.70	1.2779
CDMA	384	836.52	1.2709
	777	848.31	1.2757
CDMA EVDO	1013	824.70	1.2773
	25	1851.25	1.2766
PCS	600	1880.00	1.2749
	1175	1908.75	1.2763
PCS EVDO	25	1851.25	1.2787

- Plots of the EUT's Occupied Bandwidth are shown Page 29 ~ 32.

FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



7.4 CONDUCTED SPURIOUS EMISSIONS

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
	1013	2.414	-36.67
CDMA	384	2.409	-36.43
	777	2.409	-37.22
	25	2.412	-35.73
PCS	600	2.412	-35.57
	1175	2.412	-35.53

- Plots of the EUT's Conducted Spurious Emissions are shown Page 42 ~ 47.

7.4.1 Band Edge

- Plots of the EUT's Band Edge are shown Page 34 ~ 41.

FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



7.5 EFFECTIVE RADIATED POWER OUTPUT

When connected to the USB port of the computer

(CDMA Mode)

	Ch.	/ Freq.	Measured	Substitude	Ant. Gain			EF	RΡ
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBd)	C.L	Pol.	W	dBm
	1013	824.70	-14.74	34.16	-10.54	1.61	V	0.159	22.01
CDMA	384	836.52	-15.54	33.38	-10.50	1.67	V	0.132	21.21
	777	848.31	-15.06	34.00	-10.47	1.64	V	0.155	21.89
	1013	824.70	-13.98	34.92	-10.54	1.61	V	0.189	22.77
EVDO	384	836.52	-14.43	34.49	-10.50	1.67	V	0.171	22.32
	777	848.31	-14.40	34.66	-10.47	1.64	V V V V V	0.180	22.55

Note: A peak detector is used.

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a non-conductive styrofoam resin table table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

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

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



When connected to the AC-USB adaptor

(CDMA Mode)

	Ch.	/ Freq.	Measured	Substitude	Ant. Gain			EF	RP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBd)	C.L	Pol.	W	dBm
	1013	824.70	-11.07	37.83	-10.54	1.61	Н	0.370	25.68
CDMA	384	836.52	-12.08	36.84	-10.50	1.67	Н	0.293	24.67
	777	848.31	-12.13	36.93	-10.47	1.64	H V	0.303	24.82
	1013	824.70	-10.73	38.17	-10.54	1.61	Н	0.400	26.02
EVDO	384	836.52	-11.65	37.27	-10.50	1.67	Н	0.324	25.10
	777	848.31	-11.78	37.28	-10.47	1.64	H H V H H	0.329	25.17

Note: A peak detector is used.

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a non-conductive styrofoam resin table table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

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

	FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772		



7.6 EQUIVALENT ISOTROPIC RADIATED POWER

When connected to the USB port of the computer

(PCS CDMA Mode)

Mode	Ch	./ Freq.	Measured	Substitude	Ant. Gain	C.L	Pol.	E	IRP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBi)	U.L	FUI.	W	dBm
	25	1,851.25	-13.17	18.77	10.23	1.78	Н	0.527	27.22
PCS	600	1,880.00	-14.47	17.66	10.25	1.77	Н	0.411	26.14
	1175	1,908.75	-12.79	19.41	10.29	1.75	Н	0.624	27.95
	25	1,851.25	-11.74	20.20	10.23	1.78	Н	0.733	28.65
EVDO	600	1,880.00	-12.14	19.99	10.25	1.77	Н	0.703	28.47
	1175	1,908.75	-12.39	19.81	10.29	1.75	Н	0.684	28.35

Note: A peak detector is used.

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a non-conductive styrofoam resin table table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

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

	FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



When connected to the AC-USB adaptor

(PCS CDMA Mode)

Mode	Ch	./ Freq.	Measured	Substitude	Ant. Gain	C.L	Pol.	E	IRP
Mode	channel	Freq.(MHz)	Level(dBm)	LEVEL (dBm)	(dBi)	U.L	FUI.	W	dBm
	25	1,851.25	-13.12	18.82	10.23	1.78	V	0.533	27.27
PCS	600	1,880.00	-15.25	16.88	10.25	1.77	V	0.344	25.36
	1175	1,908.75	-15.80	16.40	10.29	1.75	Н	0.312	24.94
	25	1,851.25	-12.11	19.83	10.23	1.78	V	0.673	28.28
EVDO	600	1,880.00	-13.26	18.87	10.25	1.77	V	0.543	27.35
	1175	1,908.75	-14.94	17.26	10.29	1.75	V	0.380	25.80

Note: A peak detector is used.

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a non-conductive styrofoam resin table table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

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

	FCC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type:	FCC ID:			
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772			



7.7 RADIATED SPURIOUS EMISSIONS 7.7.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)

When connected to the USB port of the computer

MEASURED OUTPUT POWER:	22.77 dBm = 0.189 W
MODULATION SIGNAL:	CDMA EVDO
DISTANCE:	<u>3 meters</u>
LIMIT: - (43 + 10 log10 (W)) =	-35.77 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain [dBd]	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,649.40	-37.03	9.69	-46.32	1.71	Н	-38.34	-61.11
1013	2,474.10	-51.67	10.56	-57.51	2.08	Н	-49.03	-71.80
	3,298.80	-54.93	11.84	-61.07	2.45	V	-51.68	-74.45
	1,673.04	-37.82	9.82	-47.43	1.74	V	-39.35	-62.12
384	2,509.56	-47.51	10.57	-53.48	2.11	Н	-45.02	-67.79
	3,346.08	-54.50	11.96	-61.16	2.48	V	-51.68	-74.45
	1,696.62	-38.56	10.01	-47.98	1.70	н	-39.67	-62.44
777	2,544.93	-45.71	10.60	-51.49	2.13	V	-43.02	-65.79
	3,393.24	-54.17	12.09	-60.79	2.53	V	-51.23	-74.00

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

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

FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



When connected to the AC-USB adaptor

MEASURED OUTPUT POWER:	26.02 dBm = 0.400 W
MODULATION SIGNAL:	CDMA EVDO
DISTANCE:	3 meters
LIMIT: - (43 + 10 log10 (W)) =	-39.02 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain [dBd]	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	1,649.40	-37.85	9.69	-47.14	1.71	Н	-39.16	-65.18
1013	2,474.10	-56.65	10.56	-62.49	2.08	Н	-54.01	-80.03
	3,298.80	-56.01	11.84	-62.15	2.45	Н	-52.76	-78.78
	1,673.04	-39.07	9.82	-48.68	1.74	Н	-40.60	-66.62
384	2,509.56	-55.42	10.57	-61.39	2.11	Н	-52.93	-78.95
	3,346.08	-	-	-	-	-	-	-
	1,696.62	-37.73	10.01	-47.15	1.70	Н	-38.84	-64.86
777	2,544.93	-54.73	10.60	-60.51	2.13	Н	-52.04	-78.06
	3,393.24	-55.36	12.09	-61.98	2.53	Н	-52.42	-78.44

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

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

	FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772		



7.7.2 RADIATED SPURIOUS EMISSIONS (PCS Mode)

When connected to the USB port of the computer

MEASURED OUTPUT POWER:	28.65 dBm = 0.733 W
MODULATION SIGNAL:	PCS CDMA EVDO
DISTANCE:	<u>3 meters</u>
LIMIT: - (43 + 10 log10 (W)) =	-41.65 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain [dBi]	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	3,702.50	-48.14	12.50	-53.11	2.55	V	-43.16	-71.81
25	5,553.75	-52.78	13.04	-51.85	3.17	V	-41.98	-70.63
	7,405.00	-34.80	11.10	-23.70	3.54	V	-16.14	-44.79
	3,760.00	-49.87	12.54	-54.55	2.60	V	-44.61	-73.26
600	5,640.00	-53.42	13.05	-51.88	3.21	V	-42.04	-70.69
	7,520.00	-37.50	10.99	-26.99	3.72	V	-19.72	-48.37
	3,817.50	-52.60	12.59	-57.04	2.59	V	-47.04	-75.69
1175	5,726.25	-49.04	13.07	- 47.01	3.35	V	- 37.29	-65.94
	7,635.00	-39.12	11.06	-29.14	3.23	V	-21.31	-49.96

NOTES:	1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method
	according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:
	2. The magnitude of spurious emissions attenuated more than 20dB below the limit above 5 th Harmonic for
	all channel.

FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type:	FCC ID:	
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772	



When connected to the AC-USB adaptor

MEASURED OUTPUT POWER:	28.28 dBm = 0.673 W
MODULATION SIGNAL:	PCS CDMA EVDO
DISTANCE:	3 meters
LIMIT: - (43 + 10 log10 (W)) =	-41.28 dBc

Ch.	Freq.(MHz)	Measured Level	Ant. Gain [dBi]	<u>Substitute</u> Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
	3,702.50	-38.15	12.50	-43.12	2.55	Н	-33.17	-61.45
25	5,553.75	-35.62	13.04	-34.69	3.17	V	-24.82	-53.10
	7,405.00	-35.00	11.10	-23.90	3.54	V	-16.34	-44.62
	3,760.00	-33.75	12.54	-38.43	2.60	Н	-28.49	-56.77
600	5,640.00	-42.61	13.05	-41.07	3.21	V	-31.23	-59.51
	7,520.00	-35.16	10.99	-24.65	3.72	Н	-17.38	-45.66
	3,817.50	-46.63	12.59	-51.07	2.59	Н	-41.07	-69.35
1175	5,726.25	-33.71	13.07	-31.68	3.35	V	-21.96	-50.24
	7,635.00	-37.68	11.06	-27.70	3.23	V	- 19.87	-48.15

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

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

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



7.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 7.8.1 FREQUENCY STABILITY (CDMA)

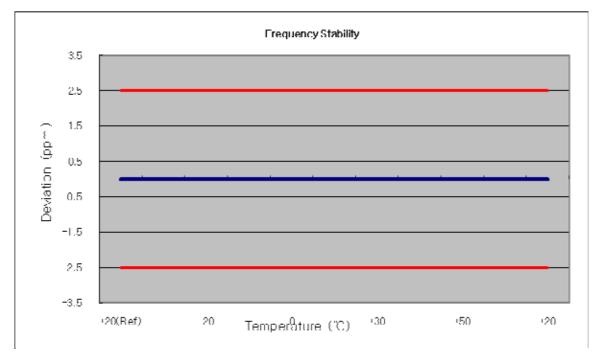
 OPERATING FREQUENCY:
 836,520,000 Hz

 CHANNEL:
 384

 REFERENCE VOLTAGE:
 5 VDC

 DEVIATION LIM IT:
 ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	836 520 014	0	0.000 000	0.000
100%		- 30	836 520 003	-10.42	-0.000 001	-0.012
100%		-20	836 520 004	-9.72	-0.000 001	-0.012
100%		- 10	836 520 002	-11.75	-0.000 001	-0.014
100%	5.00	0	836 520 003	-11.13	-0.000 001	-0.013
100%		+10	836 520 004	-9.42	-0.000 001	-0.011
100%		+30	836 520 000	-14.16	-0.000 002	-0.017
100%		+40	836 520 004	-9.82	-0.000 001	-0.012
100%		+50	836 520 003	- 10.88	-0.000 001	-0.013
115%	5.75	+20	836 520 003	-11.03	-0.000 001	-0.013



FCC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1208FR24-2 October 4, 2012 Cellular/PCS CDMA & LTE USB Dongle with WLAN					
	Page 2.6 of 47				



7.8.2 FREQUENCY STABILITY (PCS CDMA)

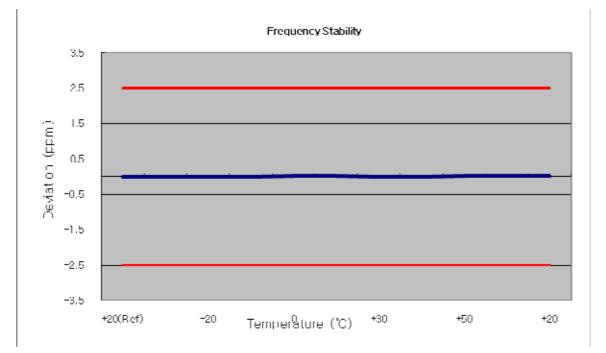
 OPERATING FREQUENCY:
 1880,000,000 Hz

 CHANNEL:
 600

 REFERENCE VOLTAGE:
 5 VDC

 DEVIATION LIM IT:
 ± 0.000 25 % or 2.5 ppm

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1880 000 012	0	0.000 000	0.000
100%		- 30	1879 999 994	-6.04	0.000 000	-0.003
100%		-20	1879 999 990	-9.58	-0.000 001	-0.005
100%		- 10	1879 999 984	-16.20	-0.000 001	-0.009
100%	5.00	0	1880 000 008	8.27	0.000 000	0.004
100%		+10	1880 000 010	10.22	0.000 001	0.005
100%		+30	1879 999 984	-16.34	-0.000 001	-0.009
100%		+40	1879 999 986	-13.52	-0.000 001	-0.007
100%		+50	1880 000 008	7.74	0.000 000	0.004
115%	5.75	+20	1880 000 008	7.72	0.000 000	0.004



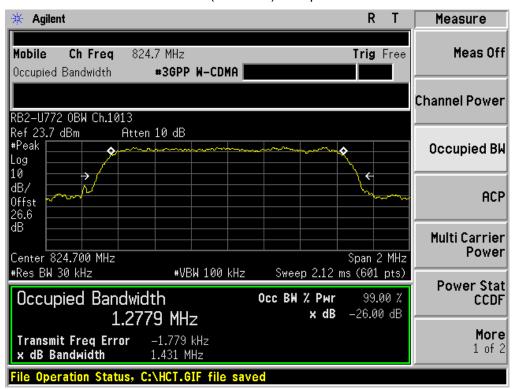
FCC CERTIFICATION REPORT					
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1208FR24-2 October 4, 2012 Cellular/PCS CDMA & LTE USB Dongle with WLAN			RB2-U772		
	Dogo 2.7 of 47				



8. TEST PLOTS

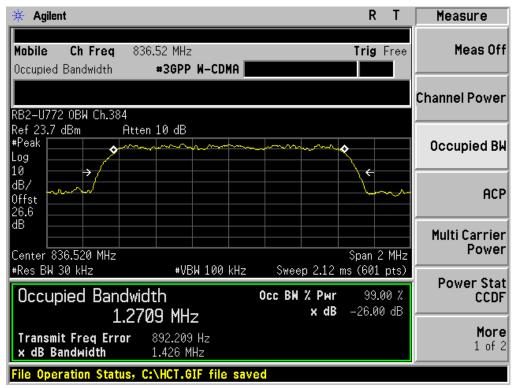
FCC CERTIFICATION REPORT			www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772		





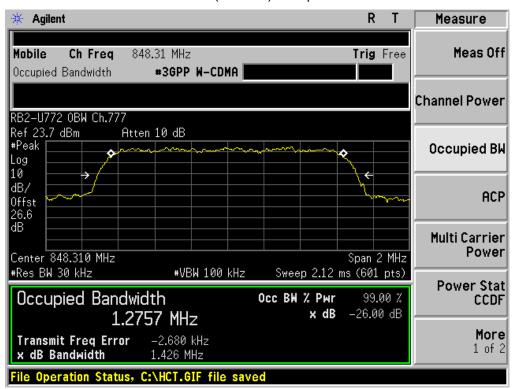
■ CDMA MODE (1013 CH.) Occupied Bandwidth

CDMA MODE (384 CH.) Occupied Bandwidth



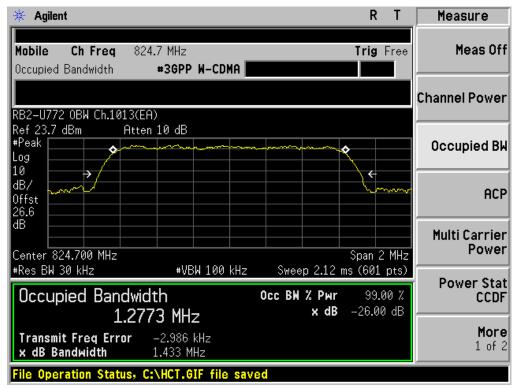
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. Date of Issue: EUT Type:			FCC ID:
HCTR1208FR24-2 October 4, 2012 Cellular/PCS CDMA & LTE USB Dongle with WLAN			RB2-U772
		Dage 2.0 of 47	





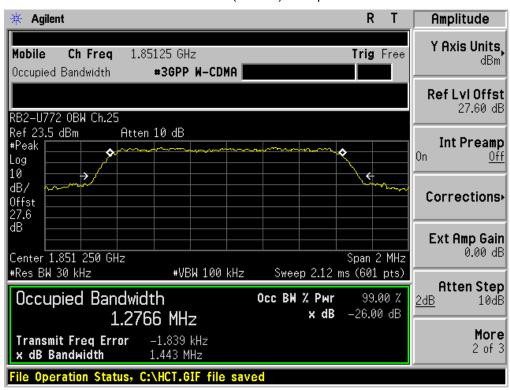
■ CDMA MODE (777 CH.) Occupied Bandwidth

■ CDMA EVDO MODE (1013 CH.) Occupied Bandwidth



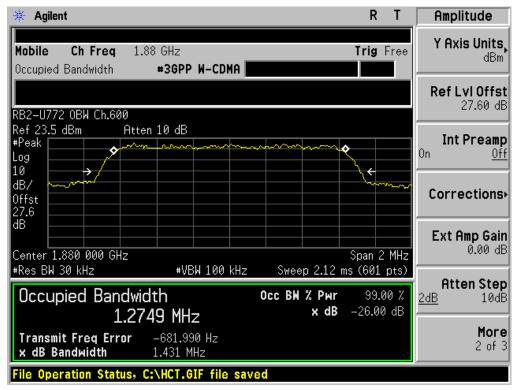
FCC CERTIFICATION REPORT			www.hct.co.kr	
Test Report No. Date of Issue: EUT Type:		FCC ID:		
HCTR1208FR24-2 October 4, 2012 Cellular/PCS CDMA & LTE USB Dongle with WLAN			RB2-U772	
Page 2.0 of 47				





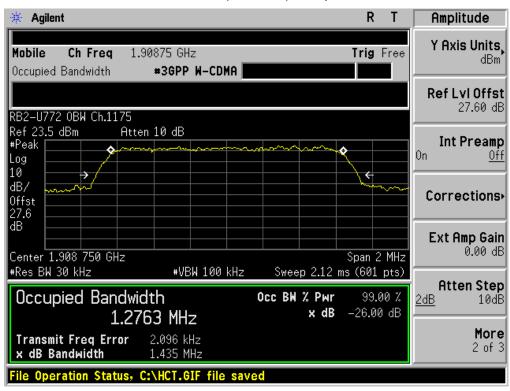
■ PCS CDMA MODE (25 CH.) Occupied Bandwidth

PCS CDMA MODE (600 CH.) Occupied Bandwidth



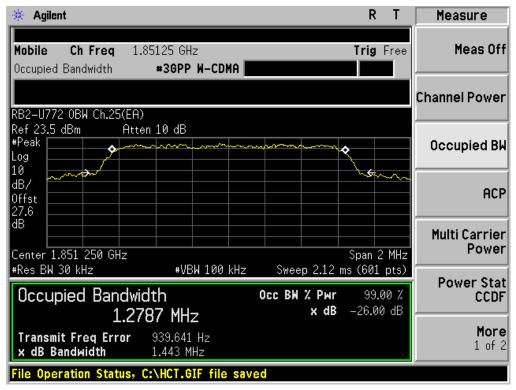
FCC CERTIFICATION REPORT			www.hct.co.kr	
Test Report No. Date of Issue: EUT Type:		FCC ID:		
			RB2-U772	
Page 2.1 of 47				





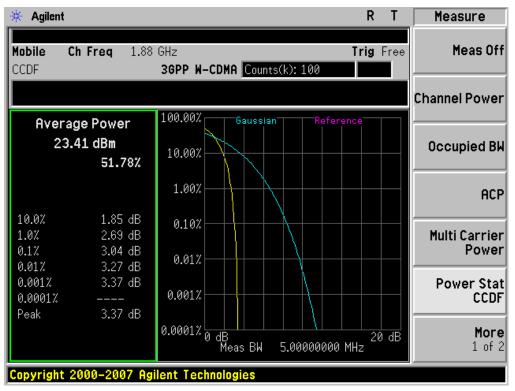
■ PCS CDMA MODE (1175 CH.) Occupied Bandwidth

■ PCS CDMA EVDO MODE (25 CH.) Occupied Bandwidth



FCC CERTIFICATION REPORT			www.hct.co.kr	
Test Report No. Date of Issue: EUT Type:		FCC ID:		
HCTR1208FR24-2 October 4, 2012 Cellular/PCS CDMA & LTE USB Dongle with WLAN			RB2-U772	
Page 2.2 of 47				





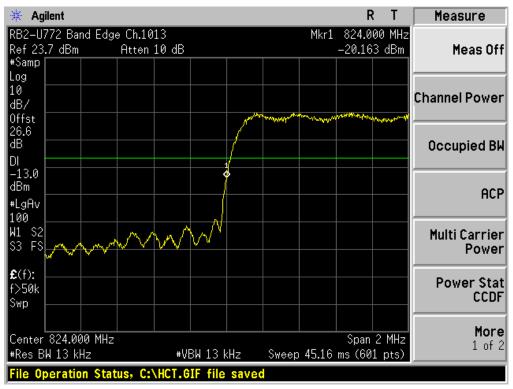
■ PCS CDMA MODE (600 CH.) Peak-to-Average Ratio





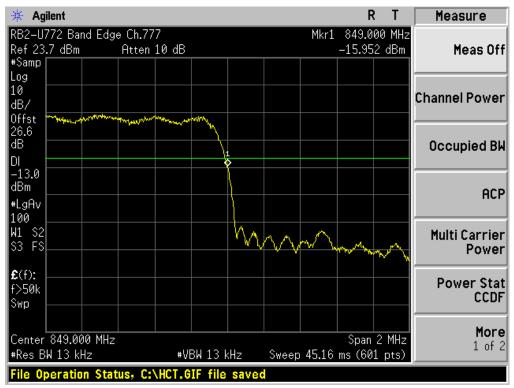
FCC CERTIFICATION REPORT			www.hct.co.kr		
Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772		





■ CDMA MODE (1013 CH.) Block Edge

■ CDMA MODE (777 CH.) Block Edge



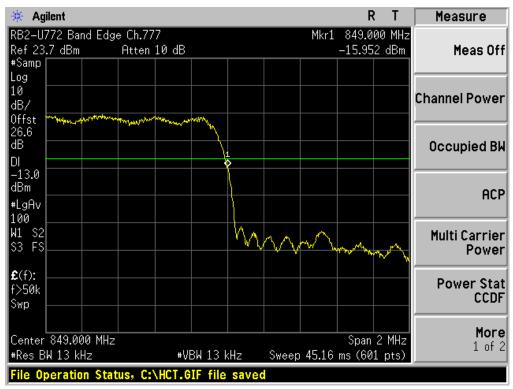
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Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



🔆 Agilent				R	Т	Measure
RB2-U772 Band Edg				824.000		
Ref 23.7 dBm #Samp	Atten 10 dB			-19.261	dBm	Meas Off
Log						
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£ (f):						Power Stat
f>50k						CCDF
Swp						
						More
Center 824.000 MHz		. 10		Span 2		1 of 2
#Res BW 13 kHz			weep 45.16	ms (601	pts)	
File Operation Stat	us, C:\HCT.GI	file saved				

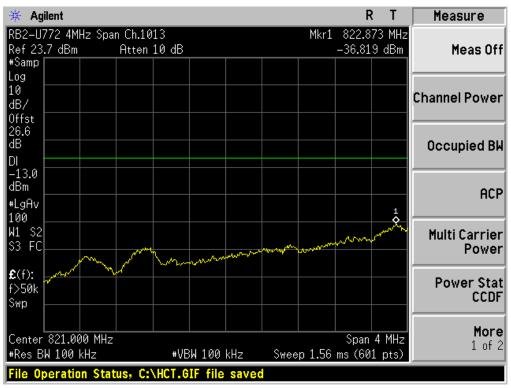
■ CDMA EVDO MODE (1013 CH.) Block Edge

■ CDMA EVDO MODE (777 CH.) Block Edge



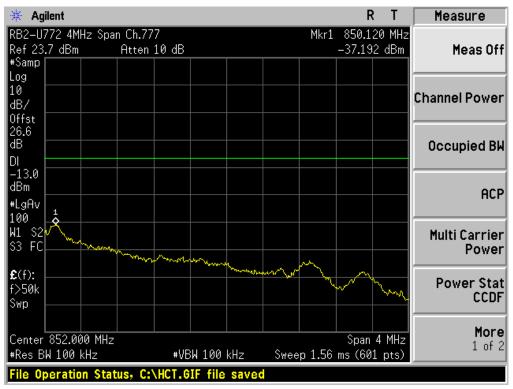
FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772





■ CDMA MODE (1013 CH.) 4 MHz Span

CDMA MODE (777 CH.) 4 MHz Span



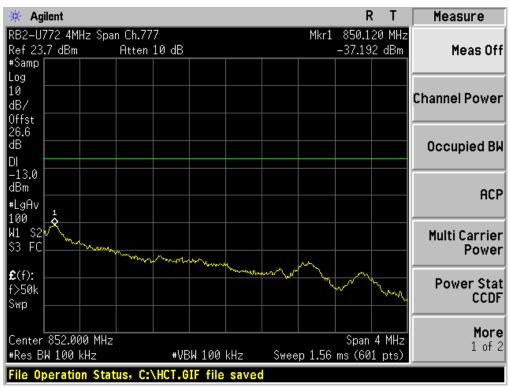
FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772
		Dage 2.6 of 47	



🔆 Agilent				R	Т	Measure
RB2-U772 4MHz Spa	n Ch.1013(EA))	Mkr1	823.00	0 MHz	
Ref 23.7 dBm	Atten 10 dB			-35.588	dBm	Meas Off
#Samp						
.og 10						
4B/						Channel Power
Offst						
26.6						
dB				+		Occupied Bk
DI						
-13.0						
dBm						ACF
*LgAv					1	
100						ł
v1 S2				anner	~~ *	Multi Carrier
\$3 FC	-m	mount	man and the second s			Power
m.	pr non	a million and the contract				
E(f):	Y V			+		Power Stat
f>50k						CCDF
Swp						
						More
Center 821.000 MHz				Span 4		1 of 2
ŧRes BW 100 kHz	#VI	3W 100 kHz	Sweep 1.56	ms (601	pts)	
File Operation Stat	us, C:\HCT.O	IF file save	d			

CDMA EVDO MODE (1013 CH.) 4 MHz Span

CDMA EVDO MODE (777 CH.) 4 MHz Span



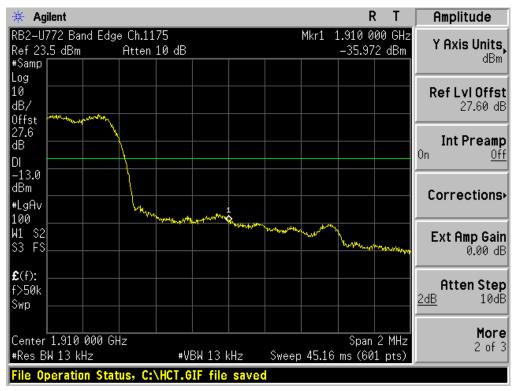
FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



Agilent				R	т	Amplitude
-	- Ch 2E		Mler 1	1.850 0		mipircude
:B2-U772 Band Edg ef 23.5 dBm Samp	Atten 10 dB		Mkr1	-35.47		Y Axis Units dBn
og 0 B/					wy water and a start	Ref Lvi Offs 27.60 d
7.6 B N 13.0						Int Pream
LgAv		1	a marine and the second			Correction
1 S2 3 FS	- Martin Martin and					Ext Amp Ga 0.00 c
:(f): >50k wp						Atten Ste 2dB 100
Center 1.850 000 GH Res BW 13 kHz		3W 13 kHz	Sweep 45.1		2 MHz 1 pts)	Mor 2 of

■ PCS CDMA MODE (25 CH.) Block Edge

■ PCS CDMA MODE (1175 CH.) Block Edge



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Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



🔆 Agilent				R	Т	Measure
RB2-U772 Band E			Mkr1	1.849 99		
Ref 23.5 dBm	Atten 10 dB			-29.769	dBm	Meas Off
#Samp						
10 dB/						Channel Power
ab/ Offst				hand a start	. Arterity	
27.6				/	<i>M</i>	
dB				1		Occupied BW
-13.0						
dBm		1	mound			ACP
#LgAv	يوينه المرين	may and	trade of the second s			псг
100	Marth Martin Martin					
W1 S2	~ MARA					Multi Carrier
S3 FS						Power
£ (f):						Power Stat
f>50k						CCDF
Swp						
						Mara
Center 1.850 000	GHz			Span 2	2 MHz	More 1 of 2
#Res BW 13 kHz	#VB	W 13 kHz	Sweep 45.16			1 01 2
	tatus, C:\HCT.GI					
ne operation o						

■ PCS CDMA EVDO MODE (25 CH.) Block Edge

■ PCS CDMA EVDO MODE (1175 CH.) Block Edge



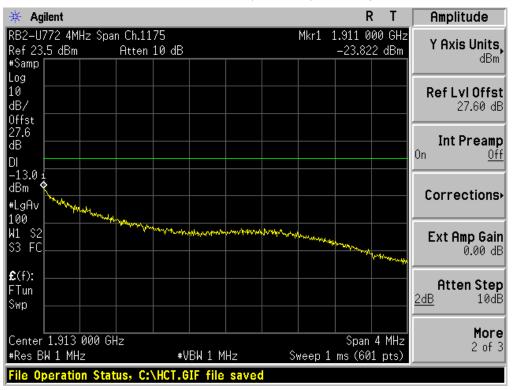
FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772
		Base 3.0 of 47	



🔆 Agilent			RT	Amplitude
RB2-U772 4MHz Spa Ref 23.5 dBm	an Ch.25 Atten 10 dB	Mkr1	1.849 000 GH: -24.760 dBm	Y HXIS Units
+Samp Log				dBm
10 187				Ref Lvi Offst 27.60 dE
Offst 27.6 JB DI				Int Preamp On <u>Of</u>
-13.0 JBm #LgAv				Corrections
100 11 S2 53 FC	and the state of t	ne-net-strangert, out over right of the state of the stat	a shannan an a	Ext Amp Gair 0.00 dE
E(f): Tun Gwp				Atten Step 2dB 10dE
Center 1.847 000 G +Res BW 1 MHz	Hz #VBW 1	MHz Sweep	Span 4 MHz 1 ms (601 pts)	

■ PCS CDMA MODE (25 CH.) 4 MHz Span

■ PCS CDMA MODE (1175 CH.) 4 MHz Span



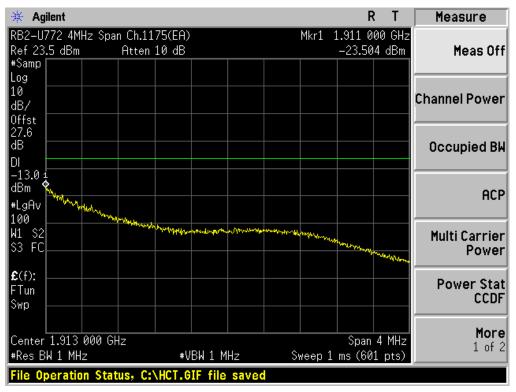
FCC CERTIFICATION REPORT			
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



🗧 Agilent				R	Т	Measure
B2-U772 4MHz S				.848 973		
lef 23.5 dBm	Atten 10 dB			-23.636	dBm	Meas Off
Samp						
og						
0						Channel Power
IB/						
)ffst 27.6						
IB						Occupied BW
)						occupied by
-13.0						
IBm					\$	
LgAv					N. Martin	ACP
.00				Helen Martin Martin	·	
ا مما		and was seen as a second	www.white			Multi Annul an
	and the second					Multi Carrier
DO FU						Power
(f):						
Tun						Power Stat
Swp						CCDF
4						
						More
Center 1.847 000				Span 4		1 of 2
Res BW 1 MHz	#V	BW 1 MHz	Sweep 1 i	ms (601	pts)	1 01 2
ile Operation St	tatus, C:\HCT.G	IF file saved				

■ PCS CDMA EVDO MODE (25 CH.) 4 MHz Span

■ PCS CDMA EVDO MODE (1175 CH.) 4 MHz Span



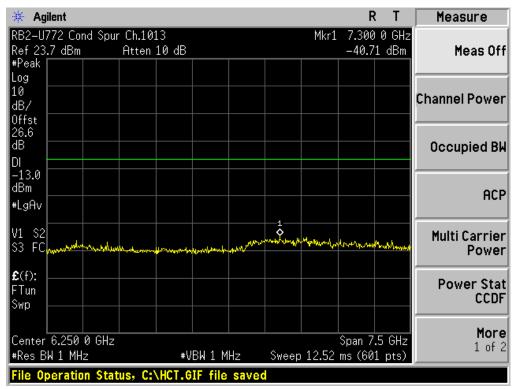
	FC	C CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



🔆 Agilent			RT	Measure
RB2-U772 Cond Spur			2.414 GHz	
Ref 23.7 dBm I	Atten 10 dB		-36.67 dBm	Meas Off
#Peak				
Log 10				
dB/				Channel Power
Öffst				
26.6				
dB				Occupied BW
-13.0 dBm				
				ACP
#LgAv			1	
V1 S2			Ĭ	Multi Carrier
sa Erl I. I	and and a farmer with a second			Power
And a substitution of the	andar ar faile and a faile and an	landia di alta da anti al anti anti anti anti anti anti anti anti		1000
£ (f):				Power Stat
FTun				CCDF
Swp				
				Mawa
Center 1.265 GHz		Spa	an 2.47 GHz	More 1 of 2
#Res BW 1 MHz	#VBW 1 №	Hz Sweep 4.12 m	s (601 pts)	1 UT 2
File Operation Statu	is, C:\HCT.GIF file	saved		

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

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



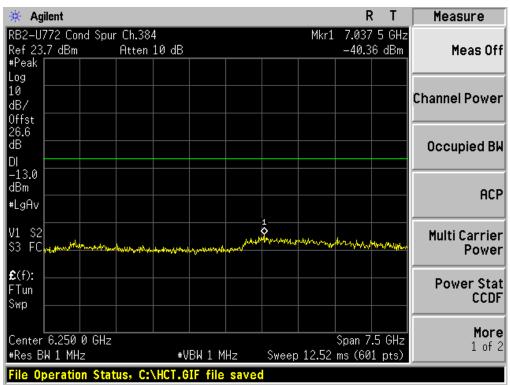
	FC	C CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



Agilent							R	Т	Measure
B2–U772 Cond Spi	ır Ch.384	1				Mkr		9 GHz	
ef 23.7 dBm	Atten	10 dB					-36.43	dBm	Meas Off
Peak									
og									
0,									Channel Power
B/									
ffst									
6.6 B									Occurried PU
									Occupied BW
13.0									
Bm									
									ACP
LgAv								1	
1 \$2								- 🏌	
3 FC		- N			l.				Multi Carrier
) C Winner and	and the state	and horizonation	an all and the	hurtymask	والمحرمة المردية	harportenter	or when have been been been been been been been be	aday forda	Power
:(f):									
Tun									Power Stat
wp									CCDF
wh									
									More
enter 1.265 GHz						Sp	oan 2 . 47	7 GHz	1 of 2
Res BW 1 MHz		#V	'BW 1 M	Hz	Swee	ep 4.12 r	ns (601	pts)	1012
ile Operation Sta	tue. C-V	HCT G	TE GILA	eavod					

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

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

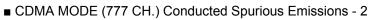


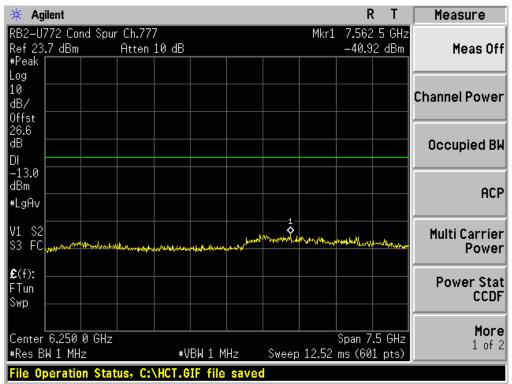
	FC	C CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



🔆 Agilent				R	Т	Measure
RB2-U772 Cond Spur Ref 23.7 dBm #Peak	Ch.777 Atten 10 dB		Mkr1	2.409 37.22		Meas Off
Log LØ dB/ Dffst						Channel Power
26.6 dB DI						Occupied Bk
-13.0 dBm #LgAv					1	ACF
V1 S2 S3 FC		an the state of th	when the man so we have the	n, sefit de la	Ĵ.	Multi Carrier Power
Є (f): -Tun Swp						Power Stat CCDF
Center 1.265 GHz #Res BW 1 MHz	#VE	BW 1 MHz S	Spar weep 4.12 ms	1 2.47 (601		More 1 of 2

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





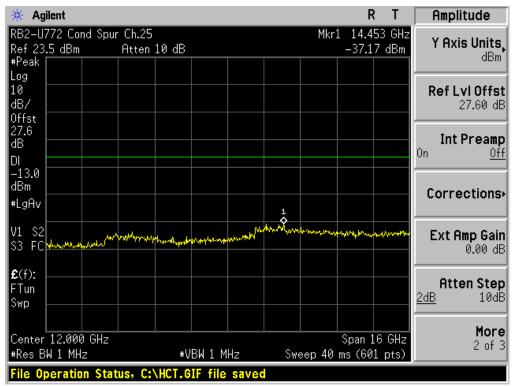
	FC	C CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



🗧 Agilent		RT	Amplitude
B2-U772 Cond Spu Ref 23.5 dBm	Ch.25 Atten 10 dB	Mkr1 2.412 GHz -35.73 dBm	Y Axis Units, dBm
Peak og 0			Ref LvI Offst
IB/			27.60 dE
IB			Int Preamp On <u>Of</u>
-13.0 Bm LgAv			Corrections
1 \$2 3 FC	way whether and a start of the	ma mandatanda and a subject of the	Ext Amp Gair 0.00 dE
C(f): Tun Wp			Atten Step 2dB 10dB
Center 2.015 GHz Res BW 1 MHz	#VBW11MHz Swee	Span 3.97 GHz pp 6.64 ms (601 pts)	More 2 of 3

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

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

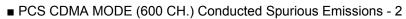


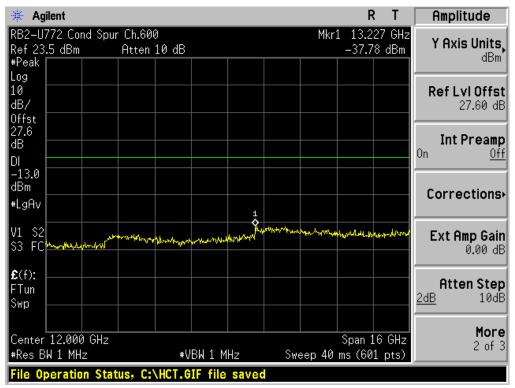
	F	CC CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



🗧 Agilent		RT	Amplitude
82-U772 Cond Sp Ref 23.5 dBm Peak	ur Ch.600 Atten 10 dB	Mkr1 2.412 GHz -35.57 dBm	Y Axis Units, dBm
og 0 IB/			Ref Lvi Offst 27.60 dE
)ffst :7.6 IB			Int Preamp On <u>Of</u>
-13.0 IBm LgAv			Corrections
1 S2 3 FC		S Januar Agentin Marine Marine Marine Marine M	Ext Amp Gail 0.00 df
C(f):			Atten Ste 2dB 10d
Center 2.015 GHz Res BW 1 MHz	#VBW 1 MHz	Span 3.97 GHz Sweep 6.64 ms (601 pts)	Mor 2 of

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





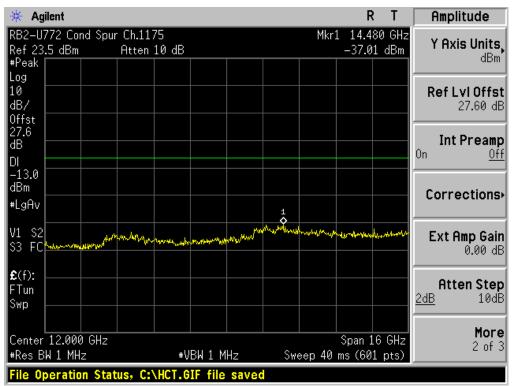
	FC	C CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772



32-U772 Cond Spur Ch.1175 of 23.5 dBm Atten 10 dB 'eak	Mkr1 2.412 GHz -35.53 dBm Y Axis Units
g	
	Ref LvI Offs
37	27.60 c
fst	
7.6	Int Pream
	On <u>O</u>
13.0	
Sm	Correction
gAv	corrections
. <u>\$2</u>	Ext Amp Ga
3 FC marther and a second	U.O.O C
(f):	
Fun	Atten Ste
μp	<u>2dB</u> 10d
enter 2.015 GHz	Span 3.97 GHz
es BW 1 MHz #VBW 1 MHz	Sweep 6.64 ms (601 pts)
le Operation Status, C:\HCT.GIF file saved	

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

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



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Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR24-2	October 4, 2012	Cellular/PCS CDMA & LTE USB Dongle with WLAN	RB2-U772