

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name:

Kyocera Corporation.

Date of Issue:

March 18, 2014

Test Site/Location:

Address: 1-34 Sanyo-cho, Daito-Shi, Osaka 574-8501 Japan HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-

myeon, Icheon-si, Gyeonggi-do, Korea

Report No.: HCT-R-1403-F035

HCT FRN: 0005866421

FCC ID

: V65C6530

APPLICANT

: Kyocera Corporation.

FCC Model(s):

C6530N

EUT Type:

Mobile Phone

Max. RF Output Power:

1.371 dBm (1.3711 mW)

Frequency Range:

2402 MHz -2480 MHz(BT 4.0_Low Energy Mode)

Modulation type

GFSK

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)

Report prepared by : Jae Chul Shin

Test engineer of RF Team

Approved by

: Kyoung Houn Seo

Manager of RF Team

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1403-F035	March 18, 2014	- First Approval Report

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1. GENERAL INFORMATION

Applicant: Kyocera Corporation.

Address: 1-34 Sanyo-cho, Daito-Shi, Osaka 574-8501 Japan

FCC ID: V65C6530
EUT Type: Mobile Phone

Model name(s): C6530N

Date(s) of Tests: February 24, 2014 ~ March 12, 2014

Place of Tests: HCT Co., Ltd.

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

(IC Recognition No.: 5944A-3)

2. EUT DESCRIPTION

EUT Type	Mobile Phone			
FCC Model Name	C6530N			
Power Supply	DC 3.8 V			
Battery type	Li-ion Battery(S	tandard)		
Frequency Range	TX: 2402 MHz ~ 2480 MHz			
	RX: 2402 MHz	~ 2480 MHz		
Max. RF Output Power	Peak 1.371 dBm (1.3711 mW)			
	Average	1.14 dBm (1.3002 mW)		
BT Operating Mode	BT 4.0_Low En	ergy Mode		
Modulation Type	Modulation Type GFSK			
Number of Channels	40 Channels			
Antenna Specification	Manufacturer: HCT Co. Ltd.			
	Antenna type: FPCB Antenna			
	Peak Gain: 0.6	6 dBi		

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3. TEST METHODOLOGY

FCC KDB 558074 D01 DTS Meas Guidance v03r01 dated April 09, 2013 entitled "Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) and the measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices(ANSI C63.4-2003) 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 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 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 13.1.4.1 of ANSI C63.4. (Version: 2003)

Conducted Antenna Terminal

See Section from 9.1 to 9.2.(KDB 558074)

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 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 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 February 28, 2014 (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."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

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

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

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



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	CONDUCTED	PASS
Conducted Maximum Peak Output Power	§15.247(b)(3)	< 1 Watt		PASS
Power Spectral Density	§15.247(e)	< 8 dBm / 3 kHz Band		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		PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.5.2	RADIATED	PASS

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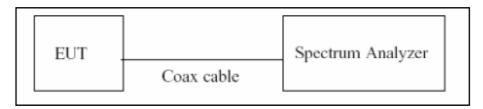
8. TEST RESULT

8.1 DUTY CYCLE

TEST PROCEDURE

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0)b) in KDB 558074(issued 04/09/2013)

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

- 1. RBW = 8 MHz (the largest available value)
- 2. VBW = 8 MHz (≥ RBW)
- 3. SPAN = 0 Hz
- 4. Detector = Peak
- 5. Number of points in sweep > 100
- 6. Trace mode = Clear write
- 7. Measure T_{total} and T_{on}
- 8. Calculate Duty Cycle = T_{on}/T_{total} and Duty Cycle Factor = 10*log(1/Duty Cycle)

LE Mode	T _{on}	T _{total} (ms)	Duty Cycle	Duty Cycle Factor
	0.1744	0.6236	0.2797	5.53

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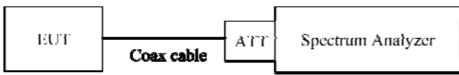
8.2 6dB BANDWIDTH MEASUREMENT

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

The bandwidth at 6dB 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 6dB bandwidth is 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to (Page 5 in KDB 558074, issued 04/09/2013)

RBW = 100 kHz

 $VBW \ge 3 \times RBW$

Detector = Peak

Trace mode = max hold

Sweep = auto couple

Allow the trace to stabilize

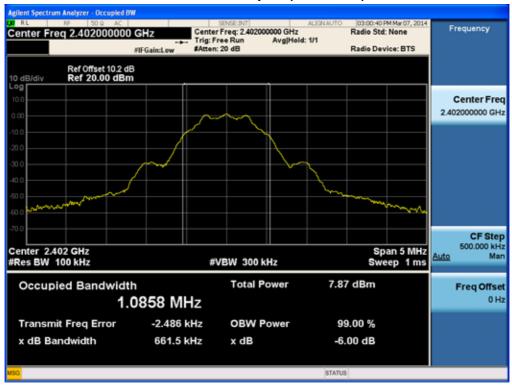
Note: We tested 6 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 6 dB.

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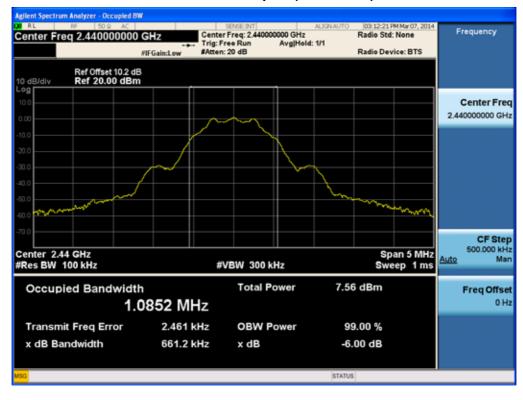


RESULT PLOTS

6dB Bandwidth plot (Low-CH 0)



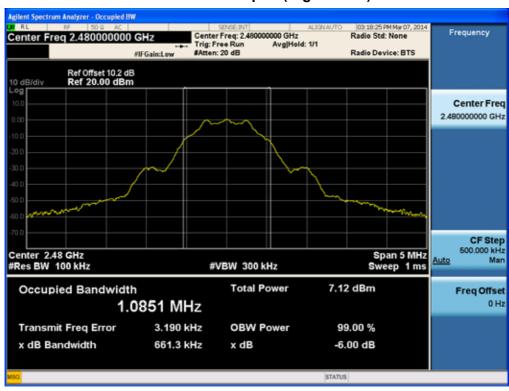
6dB Bandwidth plot (Mid-CH 19)



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6dB Bandwidth plot (High-CH 39)



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8.3 OUTPUT POWER MEASUREMENT

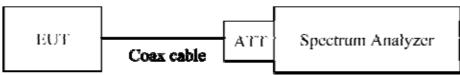
Test Requirements and limit, §15.247(b)(3)

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.

This EUT TX condition is actual operating mode by BT LE mode test program.

The Spectrum Analyzer is set to

Peak Power (Procedure 9.1.1 in KDB 558074, issued 04/09/2013)

RBW ≥ DTS Bandwidth

 $VBW \ge 3 \times RBW$

SPAN \geq 3 x RBW

Detector Mode = Peak

Sweep = auto couple

Trace Mode = max hold

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level

Average Power (Procedure 9.2.2.4 in KDB 558074, issued 04/09/2013)

Measure the duty cycle

Set span to at least 1.5 times the OBW

RBW = 1-5 % of the OBW, not to exceed 1 MHz.

 $VBW \ge 3 \times RBW$.

Number of points in sweep $\geq 2 x \text{ span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW/2}$,

so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS(i.e., power averaging)

Do not use sweep triggering. Allow the sweep to "free run".

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

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band

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power measurement function with band limits set equal to the OBW band edges.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

Output Power = Reading Value + ATT loss + Cable loss(1 ea) + Duty Cycle Factor Output Power = 10 dBm + 10 dB + 0.8 dB + 0.2 dB = 21.0 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 range that was rounded off to the closest tenth dB. So, 10.2 dB is offset for 2.4 GHz Band.

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TEST RESULTS-Peak

Conducted Output Power Measurements

LE Me	ode	Measured	Limit
Frequency[MHz]	Channel No.	Power(dBm)	(dBm)
2402	0	1.371	30
2440	19	1.064	30
2480	39	0.614	30

TEST RESULTS-Average

Conducted Output Power Measurements

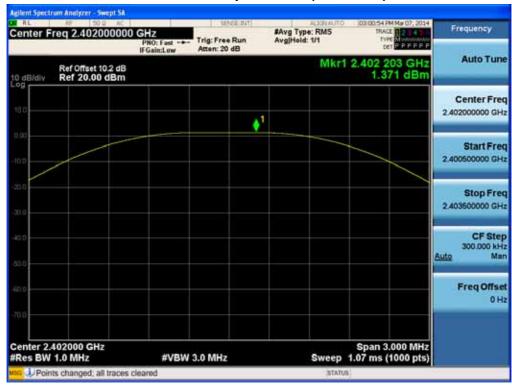
LE Mo	ode			Measured	
Frequency[MHz]	Channel No.	Measured Power(dBm)	Duty Cycle Factor	Power(dBm) + Duty Cycle Factor	Limit (dBm)
2402	0	-4.39	5.53	1.14	30
2440	19	-4.63	5.53	0.90	30
2480	39	-5.25	5.53	0.28	30

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RESULT PLOTS-Peak

Conducted Output Power (Low-CH 0)



Conducted Output Power (Mid-CH 19)



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Conducted Output Power (High-CH 39)



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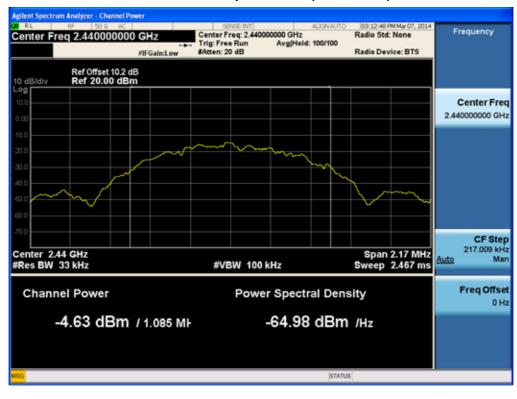


RESULT PLOTS-Average

Conducted Output Power (Low-CH 0)



Conducted Output Power (Mid-CH 19)



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Conducted Output Power (High-CH 39)



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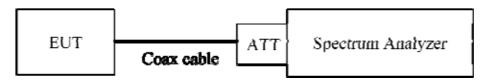
8.4 POWER SPECTRAL DENSITY

Test Requirements and limit, §15.247(e)

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – The transmitter power density average over 1-second interval shall not be greater than 8dBm in any 3kHz BW.

TEST CONFIGURATION



TEST PROCEDURE

We tested according to Procedure 10.2 in KDB 558074, issued 04/09/2013

The spectrum analyzer is set to:

Set analyzer center frequency to DTS channel center frequency.

Span = 1.5 times the DTS channel bandwidth.

 $RBW = 3 kHz \le RBW \le 100 kHz.$

 $VBW \ge 3 \times RBW$.

Sweep = auto couple

Detector = peak

Trace Mode = max hold

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Sample Calculation

PSD = Reading Value + ATT loss + Cable loss(1 ea)

Output Power = -5 dBm + 10 dB + 0.8 dB = 5.8 dBm

Note:

- 1. Spectrum reading values are not plot data. The PSD 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 range that was rounded off to the closest tenth dB. So,10.2 dB is offset for 2.4 GHz Band.

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Conducted Power Density Measurements

Frequency (MHz)	Channel		Test Result		
	No.	Mode	PSD	Limit	Pass/
	140.		(dBm)	(dBm)	Fail
2402	0		-16.126	8	Pass
2440	19	LE	-16.417	8	Pass
2480	39		-16.824	8	Pass

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RESULT PLOTS

Power Spectral Density (Low-CH 0)



Power Spectral Density (Mid-CH 19)



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Power Spectral Density (High-CH 39)



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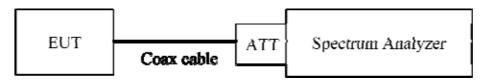


8.5 OUT OF BAND EMISSIONS AT THE BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS Test Requirements and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

Limit: 20 dBc

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. (Procedure 11.0 in KDB 558074, issued 04/09/2013)

RBW = 100 kHz

 $VBW \ge 3 \times RBW$

Set span to encompass the spectrum to be examined

Detector = Peak

Trace Mode = max hold

Sweep time = auto couple

Ensure that the number of measurement points ≥ 2*Span/RBW

Allow trace to fully stabilize.

Use peak marker function to determine the maximum amplitude level.

Measurements are made over the 30 MHz to 10th harmonic range with the transmitter set to the lowest, middle, and highest channels.

Note:

- 1. The band edge 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 range that was rounded off to the closest tenth dB. So, 10.2 dB is

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offset for 2.4 GHz Band.

- 4. In case of conducted spurious emissions test, please check factors blow table.
- 5. In order to simplify the report, attached plots were only the worst case channel and data rate.

FACTORS FOR FREQUENCY

Freq(MHz)	Factor(dB)
30	9.95
100	10.01
200	10.03
300	10.04
400	10.05
500	10.04
600	10.03
700	10.09
800	10.10
900	10.08
1000	10.11
2000	10.25
2400*	10.19
2500*	10.26
3000	10.27
4000	10.22
5000	10.48
5700*	10.42
5800*	10.48
6000	10.48
7000	10.57
8000	10.45
9000	10.50
10000	10.64
11000	10.69
12000	10.75
13000	10.92
14000	11.90
15000	11.00
16000	11.03
17000	10.93
18000	10.96

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19000	10.85
20000	12.11
21000	11.17
22000	10.99
23000	11.12
24000	11.10
25000	11.42

Note : 1. '*' is fundamental frequency range.

2. Factor = Cable loss + Attenuator loss

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RESULT PLOTS

BandEdge (Low-CH 0)



BandEdge (High-CH 39)



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HCT-R-1403-F035	March 18, 2014		V65C6530

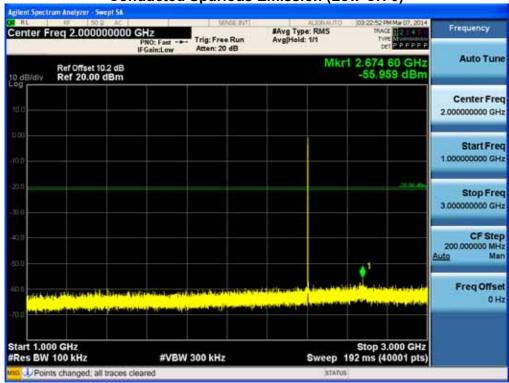


30 MHz ~ 1 GHz

Conducted Spurious Emission (Low-CH 0)



1 GHz ~ 3 GHz

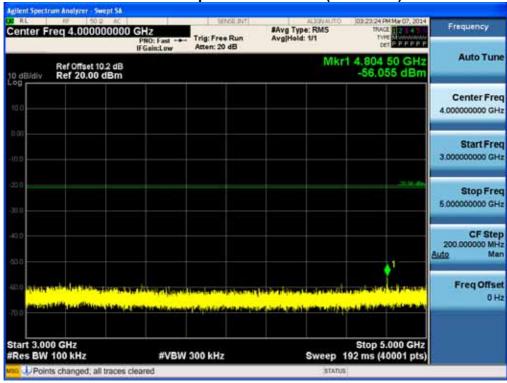


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530

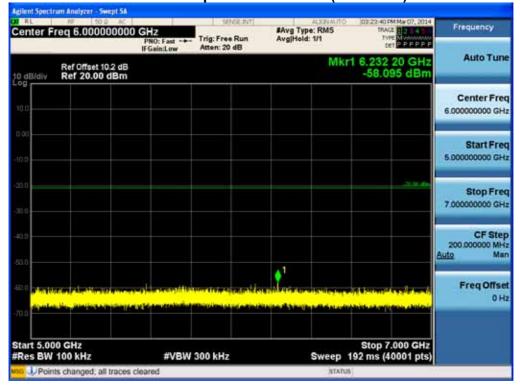


3 GHz ~ 5 GHz





5 GHz ~ 7 GHz

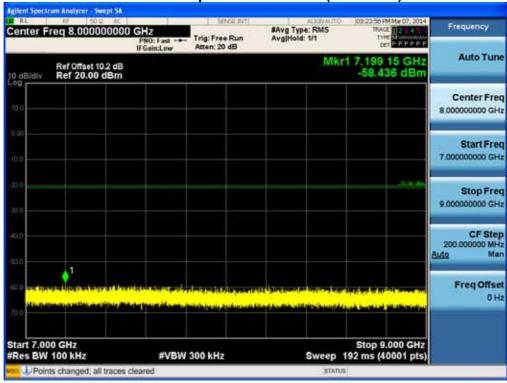


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530

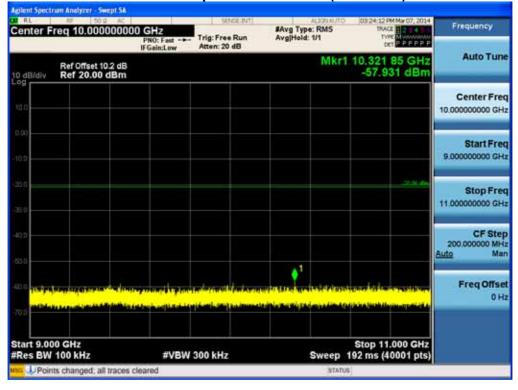


7 GHz ~ 9 GHz





9 GHz ~ 11 GHz

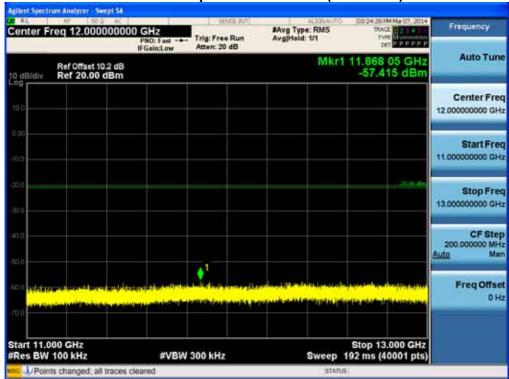


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530

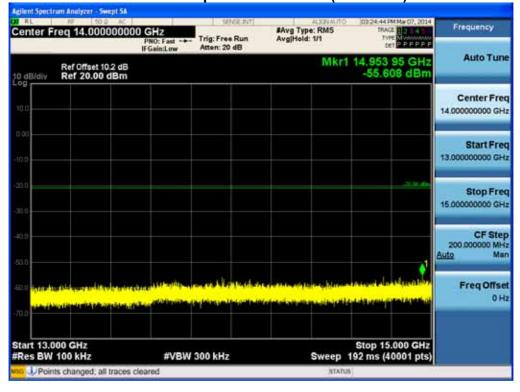


11 GHz ~ 13 GHz





13 GHz ~ 15 GHz

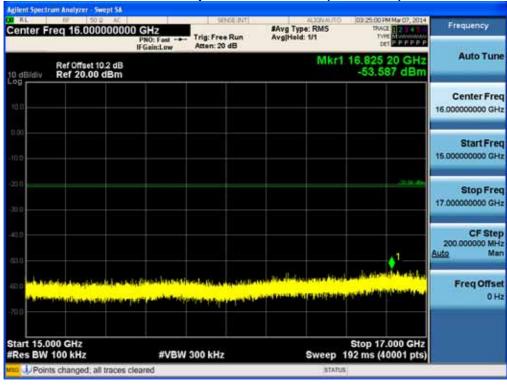


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530

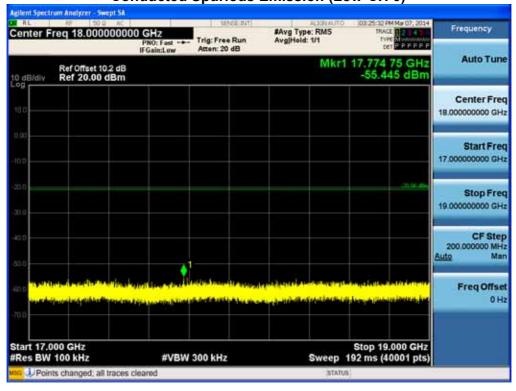


15 GHz ~ 17 GHz

Conducted Spurious Emission (Low-CH 0)



17 GHz ~ 19 GHz

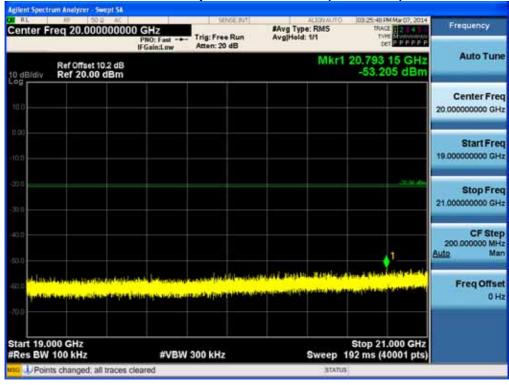


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530

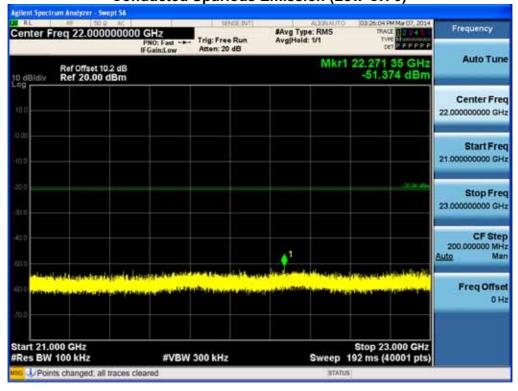


19 GHz ~ 21 GHz

Conducted Spurious Emission (Low-CH 0)



21 GHz ~ 23 GHz

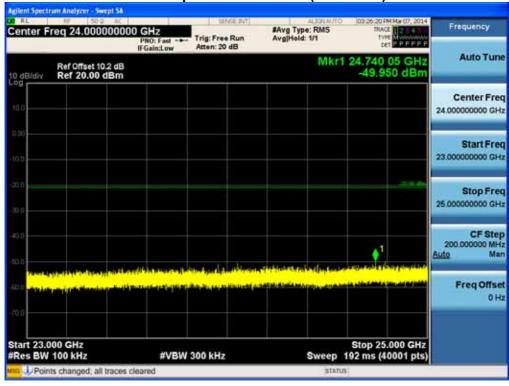


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530



23 GHz ~ 25 GHz





FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530



8.6 RADIATED MEASUREMENT.

8.6.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209

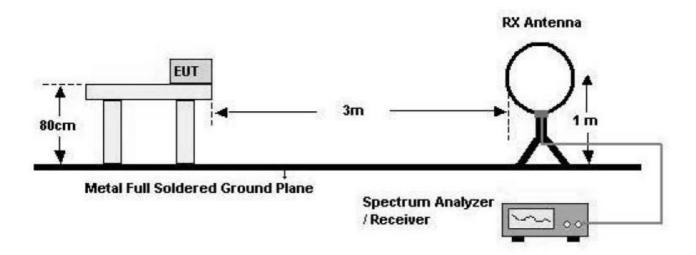
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530

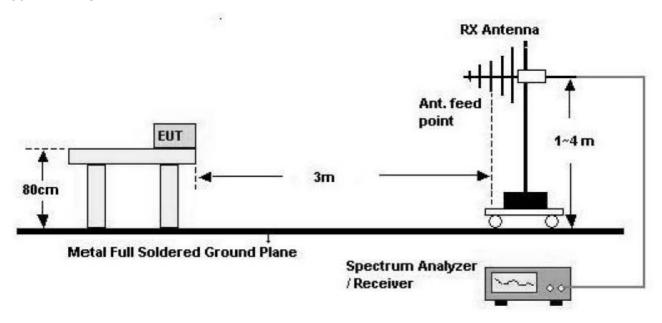


Test Configuration

Below 30 MHz



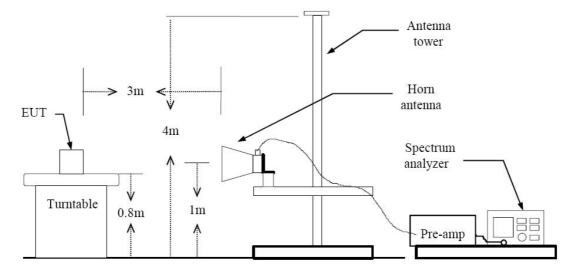
30 MHz - 1 GHz



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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HCT-R-1403-F035	March 18, 2014		V65C6530



Above 1 GHz



TEST PROCEDURE USED

ANSI C63.4(2003)

Method 12.1 in KDB 558074, issued 04/09/2013

Spectrum Setting

- Peak

Peak emission levels are measured by setting the instrument as follows:

RBW = cf. Table 1.

VBW ≥ $3 \times RBW$.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes.

(Note that the required measurement time may be longer for low duty cycle applications).

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

 FCC PT.15.247 TEST REPORT
 FCC CERTIFICATION REPORT
 www.hct.co.kr

 Test Report No. HCT-R-1403-F035
 Date of Issue: March 18, 2014
 EUT Type: Mobile Phone
 FCC ID: V65C6530



- Average

Set RBW = 1 MHz

Set VBW ≥ 1/T.(at least 100 times less than the resolution bandwidth, but no less than 10 Hz.)

Select spectrum analyzer linear display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

- 1. We are performed the RSE and radiated band edge using standard radiated method.
- 2. The actual setting value of VBW for BT LE mode.

BT LE Mode	T _{on}	T _{total}	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
	0.1744	0.6236	27.97	5734	10000



TEST RESULTS

9 kHz - 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB <i>μ</i> V/m	dBm /m	dBm	(H/V)	dB <i>μ</i> V/m	dB <i>μ</i> V/m	dB
No Critical peaks found							

- 1. Measuring frequencies from 9 kHz to the 30MHz.
- 2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
- 5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530



TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB <i>μ</i> V/m	dBm /m	dBm	(H/V)	dB <i>μ</i> V/m	dB <i>μ</i> V/m	dB
No Critical peaks found							

- 1. Measuring frequencies from 30 MHz to the 1 GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
- 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530



Above 1 GHz

Operation Mode: CH Low(LE Mode)

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4804	53.21	-4.32	V	48.89	73.98	25.09	PK
4804	40.91	-4.32	V	36.59	53.98	17.39	AV
7206	52.32	5.18	V	57.50	73.98	16.48	PK
7206	39.45	5.18	V	44.63	53.98	9.35	AV
4804	53.11	-4.32	Н	48.79	73.98	25.19	PK
4804	40.88	-4.32	Н	36.56	53.98	17.42	AV
7206	52.11	5.18	Н	57.29	73.98	16.69	PK
7206	39.22	5.18	Н	44.40	53.98	9.58	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:	
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Operation Mode: CH Mid(LE Mode)

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4880	52.68	-3.95	V	48.73	73.98	25.25	PK
4880	39.48	-3.95	V	35.53	53.98	18.45	AV
7320	51.86	5.46	V	57.32	73.98	16.67	PK
7320	39.55	5.46	V	45.01	53.98	8.98	AV
4880	52.67	-3.95	Н	48.72	73.98	25.26	PK
4880	39.23	-3.95	Н	35.28	53.98	18.70	AV
7320	51.71	5.46	Н	57.17	73.98	16.82	PK
7320	39.24	5.46	Н	44.70	53.98	9.29	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:	
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Operation Mode: CH High(LE Mode)

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4960	52.34	-3.49	V	48.85	73.98	25.13	PK
4960	40.27	-3.49	V	36.78	53.98	17.20	AV
7440	51.77	5.10	V	56.87	73.98	17.11	PK
7440	39.72	5.10	V	44.82	53.98	9.16	AV
4960	52.13	-3.49	Н	48.64	73.98	25.34	PK
4960	40.16	-3.49	Н	36.67	53.98	17.31	AV
7440	51.65	5.10	Н	56.75	73.98	17.23	PK
7440	39.43	5.10	Н	44.53	53.98	9.45	AV

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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8.6.2 RADIATED RESTRICTED BAND EDGES

Test Requirements and limit, §15.247(d) §15.205, §15.209

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

Operation Mode	BT 4.0_LE
Operating Frequency	2402 MHz
Channel No	0 Ch

Frequency	Reading	A.F.+CL	Ant. Pol.	Total	Limit	Margin	Detect
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
2390.0	26.69	33.90	Н	60.59	73.98	13.39	PK
2390.0	16.87	33.90	Н	50.77	53.98	3.21	AV
2390.0	26.44	33.90	V	60.34	73.98	13.64	PK
2390.0	16.84	33.90	V	50.74	53.98	3.24	AV

- 1. Frequency range of measurement = 2310 MHz ~ 2390 MHz
- 2. Total = Reading Value + Antenna Factor + Cable Loss
- 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
- 4. The radiated restricted band edge measurements are measured with a spectrum analyzer connected to the receive antenna while the EUT is transmitting.

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:			
HCT-R-1403-F035	March 18, 2014		V65C6530			



Operation Mode BT 4.0_LE

Operating Frequency 2480 MHz

Channel No 39 Ch

Frequency	Reading	A.F.+CL	Ant. Pol.	Total	Limit	Margin	Detect
[MHz]	[dBuV/m]	[dBm]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
2483.5	27.20	33.99	Н	61.19	73.98	12.79	PK
2483.5	16.76	33.99	Н	50.75	53.98	3.23	AV
2483.5	26.90	33.99	٧	60.89	73.98	13.09	PK
2483.5	16.81	33.99	V	50.80	53.98	3.18	AV

- 1. Frequency range of measurement = 2483.5 MHz ~ 2500 MHz
- 2. Total = Reading Value + Antenna Factor + Cable Loss
- 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
- 4. The radiated restricted band edge measurements are measured with a spectrum analyzer connected to the receive antenna while the EUT is transmitting.

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT				
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:			
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8.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

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

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

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

Test Configuration

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

TEST PROCEDURE

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.
- 5. We are performed the AC Power Line Conducted Emission test for Ch.0 on BT 4.0 LE mode. Because Ch.0 on BT 4.0 LE mode is worst case.

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT			
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HCT-R-1403-F035	March 18, 2014		V65C6530		



RESULT PLOTS

Conducted Emissions (Line 1)

EMI Auto Test(1) 1/2

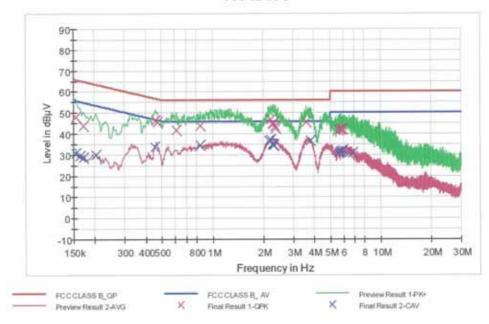
HCT TEST Report

Common Information

EUT: C6530N Manufacturer: M7

Test Site: SHIELD ROOM
Operating Conditions: BT LE MODE
Operator Name: JC SHIN

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	47.9	9,000	Off	L1	9.7	17.9	65.8
0.172500	43.7	9.000	Off	L1	9.7	21.1	64.8
0.460500	46.3	9.000	Off	L1	9.7	10.4	56.7
0.469500	45.3	9.000	Off	L1	9.7	11.2	56.5
0.612500	41.8	9.000	Off	L1	9.8	14.2	56.0
0.851000	43.9	9,000	Off	L1	9.8	12.1	56.0
2.223500	46.9	9,000	Off	L1	9.9	9.1	56.0
2.273000	44.6	9.000	Off	L1	9.9	11.4	56.0
2.286500	44.7	9,000	Off	L1	9.9	11.3	56.0
2,345000	43.5	9,000	Off	L1	9.9	12.5	56.0
2.381000	42.5	9.000	Off	L1	9.9	13.5	56.0
3,605000	45.3	9,000	Off	L1	10.0	10.7	56.0
5.589500	41.5	9.000	Off	L1	10.1	18.5	60.0
5,756000	42.0	9,000	Off	L1	10.1	18.0	60.0
5.796500	42.0	9.000	Off	L1	10.1	18.0	60.0
5.810000	42.3	9.000	Off	L1	10.1	17.7	60.0

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FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Mobile Phone	FCC ID:
HCT-R-1403-F035	March 18, 2014		V65C6530



EMI Auto Test(1) 2/2

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
5.936000	42.0	9,000	Off	L1	10.2	18.0	60.0
5.949500	42.0	9,000	Off	L1	10.2	18.0	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBpV)
0.154500	30.8	9,000	Off	L1	9.7	25.0	55.8
0.163500	29.5	9,000	Off	L1	9.7	25.8	55,3
0.172500	28.9	9.000	Off	L1	9.7	25.9	54.8
0.204000	30.1	9,000	Off	L1	9.7	23,3	53,4
0.456000	33.8	9,000	Off	L1	9.7	13.0	46,8
0.851000	34.6	9.000	Off	L1	9.8	11.4	46.0
2,160500	36.5	9.000	Off	L1	9.9	9,5	46.0
2.228000	37.2	9,000	110	L1	9.9	8.8	46.0
2.259500	35,1	9.000	Off	L1	9.9	10.9	46.0
2.291000	34.5	9,000	Off	L1	9.9	11.5	46.0
2.327000	34.3	9.000	Off	L1	9.9	11.7	46.0
3.830000	36.7	9.000	Off	L1	10.0	9.3	46.0
5.589500	30.7	9.000	Off	L1	10.1	19.3	50.0
5.756000	31.3	9.000	Off	L1	10.1	18.7	50.0
5.796500	31.4	9.000	Off	L1	10.1	18.6	50.0
5,810000	31.6	9.000	Off	L1	10.1	18.4	50.0
5,936000	31.8	9.000	Off	L1	10.2	18.2	50.0
6.827000	30.9	9.000	Off	L1	10.2	19.1	50.0

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Conducted Emissions (Line 2)

EMI Auto Test(1) 1/2

HCT TEST Report

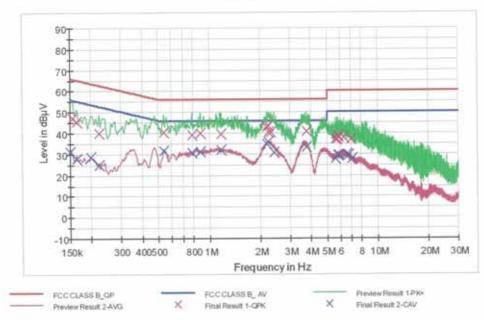
Common Information

EUT: C6530N

Manufacturer: M7

Test Site: SHIELD ROOM
Operating Conditions: BT LE MODE
Operator Name: JC SHIN

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBpV)
0.154500	47.1	9.000	Off	N	9.7	18.7	65.8
0.163500	45.5	9.000	Off	N	9.7	19.8	65.3
0.222000	39.9	9,000	Off	N	9.7	22.8	62.7
0.540500	40.5	9.000	Off	N	9.8	15.5	56.0
0.788000	39.1	9,000	Off	N	9.8	16.9	56.0
0.891500	40.1	9,000	Off	N	9,8	15.9	56.0
1,175000	39.7	9.000	Off	N	9.8	16.3	56.0
2.187500	42.8	9,000	Off	N	9.9	13.2	56.0
2.232500	43.4	9,000	Off	N	9.9	12.6	56.0
2.255000	40.6	9,000	Off	N	9.9	15.4	56.0
2,331500	40.5	9.000	110	N	9.9	15.5	56.0
3.789500	41.0	9.000	Off	N	10.1	15.0	56.0
5.639000	37.1	9,000	Off	N	10.1	22.9	60.0
5.747000	37.0	9.000	Off	N	10.1	23.0	60.0
5.787500	38,3	9.000	Off	N.	10.1	21,7	60.0
5,832500	38.6	9.000	Off	N	10.1	21.4	60.0

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EMI Auto Test(1)

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Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Fitter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
6,296000	37.8	9.000	Off	N	10.2	22.2	60.0
6,966500	37.1	9,000	Off	N	10.2	22.9	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Fitter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	31.2	9.000	Off	N	9.7	24.8	56.0
0.163500	27.9	9.000	Off	N	9.7	27.4	55.3
0.199500	28.5	9,000	Off	N	9,7	25.1	53.6
0.222000	24.8	9,000	Off	N	9.7	27.9	52.7
0.540500	31.6	9,000	Off	N	9.8	14.4	46.0
0.788000	30.6	9,000	Off	N	9,8	15.4	46.0
0.891500	31.3	9.000	Off	N	9.8	14.7	46.0
1.175000	31.9	9,000	Off	N	9,8	14.1	46.0
2.187500	35.0	9,000	Off	N	9.9	11.0	46.0
2.255000	35.7	9.000	Off	N	9.9	10.3	46.0
2,426000	30.7	9.000	110	N	9.9	15.3	46.0
3,780500	33.2	9.000	Off	N	10.1	12.8	46.0
5,639000	27.9	9.000	Off	N	10.1	22.1	50.0
5.832500	29.6	9.000	Off	N.	10.1	20.4	50.0
5.886500	29.7	9.000	Off	N	10.1	20.3	50.0
6,566000	29.9	9.000	Off	N	10.2	20.1	50.0
6.759500	29.4	9.000	Off	N	10.2	20.6	50.0
7.065500	27.8	9.000	Off	N	10.2	22.2	50.0

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9. LIST TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration	Calibration	Serial No.	
Mandiacturei	Woder / Equipment	Interval	Due		
Rohde & Schwarz	ENV216/ LISN	Annual	01/29/2015	100073	
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	12/17/2014	3150	
Rohde & Schwarz	ESI 40 / EMI TEST RECEIVER	Annual	04/16/2014	831564103	
Agilent	E4440A/ Spectrum Analyzer	Annual	04/25/2014	US45303008	
Agilent	N9020A/ SIGNAL ANALYZER	Annual	05/14/2014	MY51110063	
HD	MA240/ Antenna Position Tower	N/A	N/A	556	
EMCO	1050/ Turn Table	N/A	N/A	114	
HD GmbH	HD 100/ Controller	N/A	N/A	13	
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12	
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	Annual	09/10/2014	10094	
CERNEX	CBL18265035 / POWER AMP	Annual	07/24/2014	22966	
CERNEX	CBL26405040 / POWER AMP	Annual	04/16/2014	19660	
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	07/05/2015	1151	
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	Biennial	10/30/2014	BBHA9170124	
Rohde & Schwarz	FSP / Spectrum Analyzer	Annual	01/24/2015	839117/011	
Agilent	N1911A/Power Meter	Annual	01/24/2015	MY45100523	
Agilent	N1921A /POWER SENSOR	Annual	07/11/2014	MY45241059	
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	Annual	02/03/2015	F6	
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	Annual	04/16/2014	1	
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	Annual	04/16/2014	29	
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	Annual	06/24/2014	1	
Hewlett Packard	11636B/Power Divider	Annual	10/22/2014	11377	
Agilent	87300B/Directional Coupler	Annual	12/18/2014	3116A03621	
Hewlett Packard	11667B / Power Splitter	Annual	05/29/2014	05001	
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	10/29/2014	3110117	
ITECH	IT6720 / DC POWER SUPPLY	Annual	11/05/2014	010002156287001199	
TESCOM	TC-3000C / BLUETOOTH TESTER	Annual	04/24/2014	3000C000276	
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	04/25/2014	100422	
EMCO	6502.LOOP ANTENNA	Biennial	01/27/2016	9009-2536	
Agilent	8493C / Attenuator(10 dB)	Annual	07/24/2014	76649	
WEINSCHEL	2-3 / Attenuator(3 dB)	Annual	10/28/2014	BR0617	
CERNEX	CBL06185030 / POWER AMP	Annual	07/24/2014	22965	
CERNEX	CBLU1183540 / POWER AMP	Annual	07/24/2014	22964	

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