

Conducted Output Power (802.11n-CH 1) 39Mbps



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



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNF895

Conducted Output Power (802.11n-CH 1) 58.5Mbps



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



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Conducted Output Power (802.11n-CH 6) 6.5Mbps



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



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Conducted Output Power (802.11n-CH 6) 19.5Mbps



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



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Conducted Output Power (802.11n-CH 6) 39Mbps



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



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Conducted Output Power (802.11n-CH 6) 58.5Mbps



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

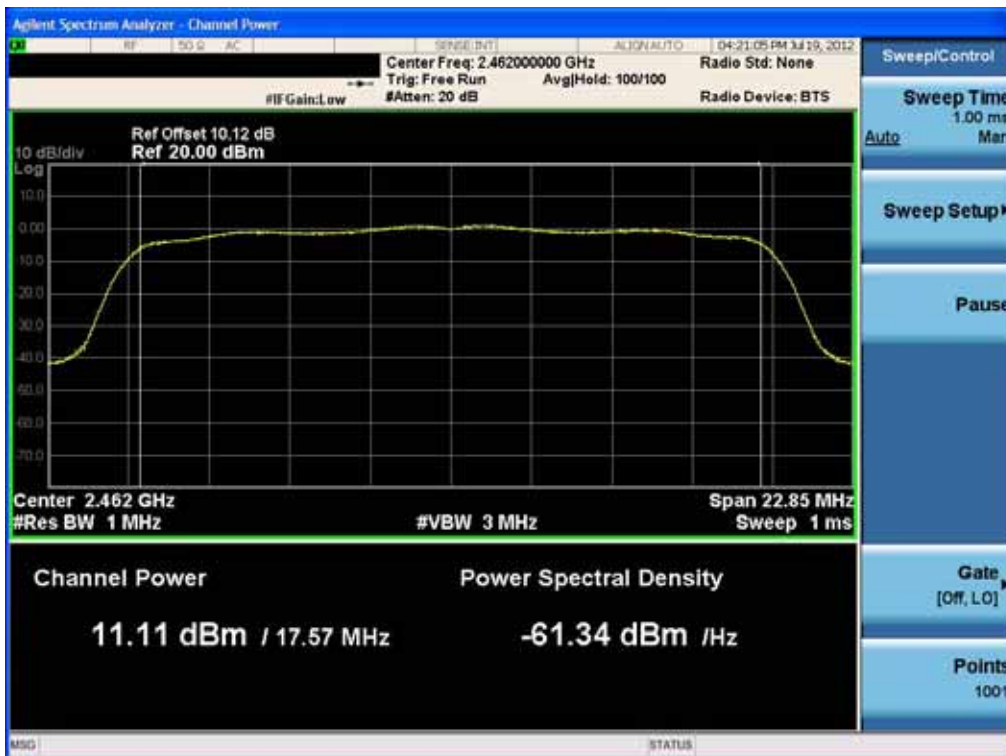


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Conducted Output Power (802.11n-CH 11) 6.5Mbps



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



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Conducted Output Power (802.11n-CH 11) 19.5Mbps



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



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Conducted Output Power (802.11n-CH 11) 39Mbps

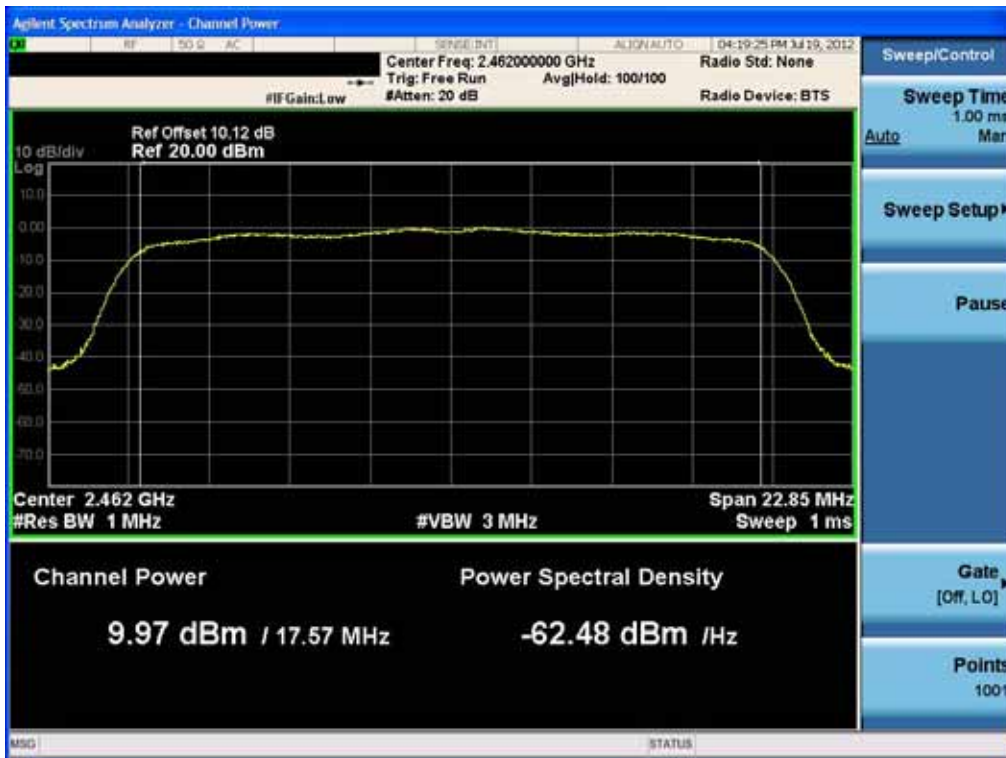


Conducted Output Power (802.11n-CH 11) 52Mbps



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Conducted Output Power (802.11n-CH 11) 58.5Mbps



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



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Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFP895

(5745 MHz ~5825 MHz)

Conducted Output Power (802.11a-CH 149) 6 Mbps



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



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Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFP895

Conducted Output Power (802.11a-CH 149) 12 Mbps



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



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Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNF895

Conducted Output Power (802.11a-CH 149) 24 Mbps



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

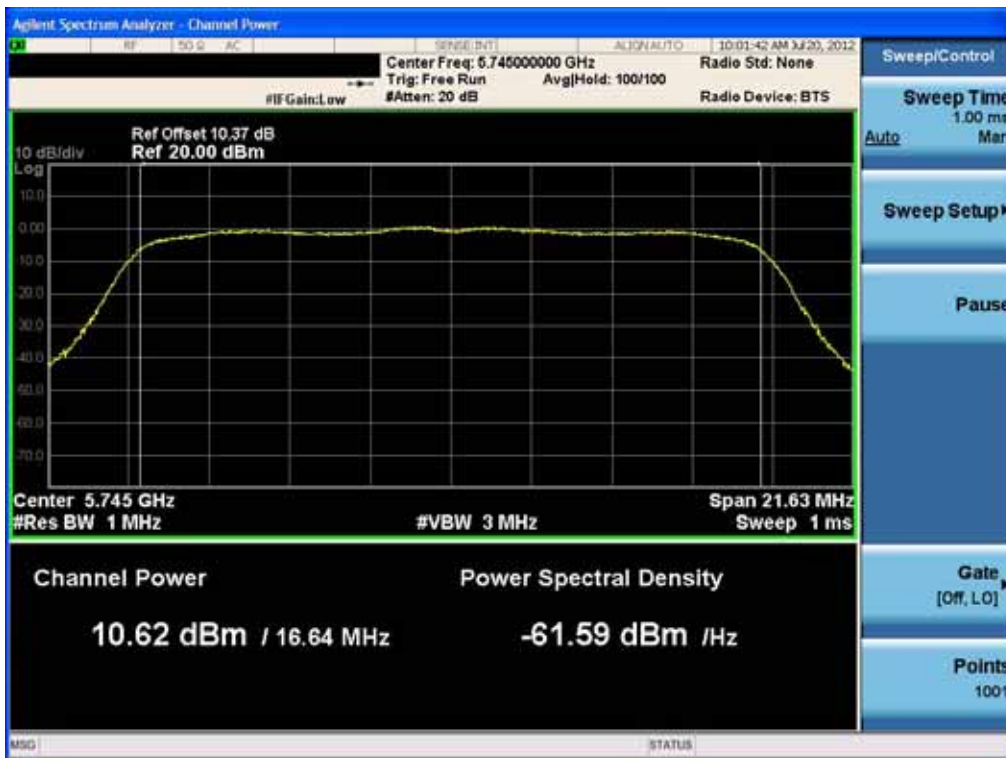


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Conducted Output Power (802.11a-CH 149) 48 Mbps



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



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



Conducted Output Power (802.11a-CH 157) 9 Mbps



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Conducted Output Power (802.11a-CH 157) 12 Mbps



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



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Conducted Output Power (802.11a-CH 157) 24 Mbps



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



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Conducted Output Power (802.11a-CH 157) 48 Mbps

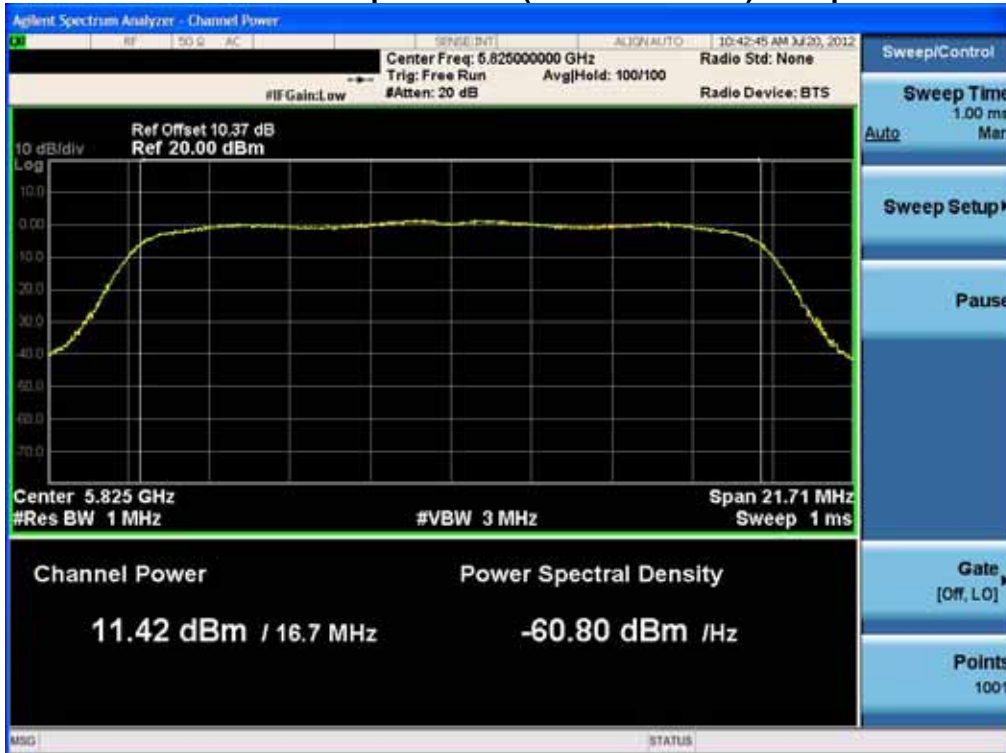


Conducted Output Power (802.11a-CH 157) 54 Mbps



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



Conducted Output Power (802.11a-CH 165) 9 Mbps



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Conducted Output Power (802.11a-CH 165) 12 Mbps



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



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Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFP895

Conducted Output Power (802.11a-CH 165) 24 Mbps



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



Conducted Output Power (802.11a-CH 165) 48 Mbps



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



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(5745 MHz ~5825 MHz)

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



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



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Conducted Output Power (802.11n-CH 149) 19.5 Mbps



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



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Conducted Output Power (802.11n-CH 149) 39 Mbps



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



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Conducted Output Power (802.11n-CH 149) 58.5 Mbps



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



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

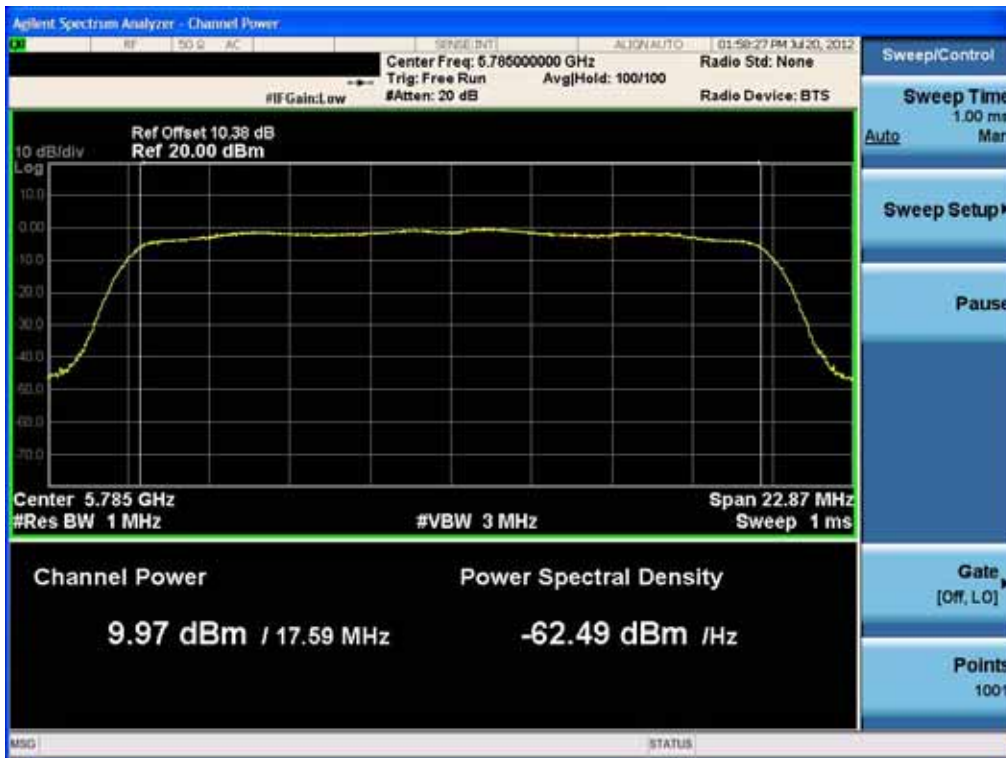


Conducted Output Power (802.11n-CH 157) 13 Mbps



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Conducted Output Power (802.11n-CH 157) 19.5 Mbps



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



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Conducted Output Power (802.11n-CH 157) 39 Mbps



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



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Conducted Output Power (802.11n-CH 157) 58.5 Mbps



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



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Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNF895

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



Conducted Output Power (802.11n-CH 165) 13 Mbps



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Conducted Output Power (802.11n-CH 165) 19.5 Mbps



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



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



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Conducted Output Power (802.11n-CH 165) 58.5 Mbps



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



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8.3 POWER SPECTRAL DENSITY (802.11a/b/g/n)

Test Requirements and limit, §15.247(e)

The peak power spectral 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 power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

■ TEST CONFIGURATION

■ TEST PROCEDURE

We tested according to KDB 558074(issued 1/18/2012).

The spectrum analyzer is set to :

1. Span = 5 – 30 % greater than the EBW
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Sweep = Auto couple
5. Detector Mode = Peak
6. Trace Mode = Max hold
7. Search peak

■ Sample Calculation

$$\begin{aligned} \text{PSD} &= \text{Reading Value} + \text{ATT loss} + \text{Cable loss}(1 \text{ ea}) + \text{BWCF} \\ &= -5 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} - 15.2 \text{ dB} = 0.6 \text{ dBm} \end{aligned}$$

Where: BWCF(Bandwidth Correction Factor) = $10\log(3 \text{ kHz}/100 \text{ kHz}) = -15.2 \text{ dB}$

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 and 5.8 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table.

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Band	Frequency(MHz)	Loss(dB)
2.4 GHz	2412	10.11
	2437	10.10
	2462	10.12
5.8 GHz	5745	10.37
	5785	10.38
	5825	10.37

(Actual value of loss for the attenuator and cable combination)

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Spectrum Value(dBm)	BWCF (dB)	PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	4.603	-15.2	-10.597	8	Pass
2437	6		4.829	-15.2	-10.371	8	Pass
2462	11		5.052	-15.2	-10.148	8	Pass
2412	1	802.11g	2.166	-15.2	-13.034	8	Pass
2437	6		2.563	-15.2	-12.637	8	Pass
2462	11		3.096	-15.2	-12.104	8	Pass
2412	1	2.4 GHz Band	1.426	-15.2	-13.774	8	Pass
2437	6		1.680	-15.2	-13.520	8	Pass
2462	11		1.821	-15.2	-13.379	8	Pass
5745	149	802.11a	1.157	-15.2	-14.043	8	Pass
5785	157		1.016	-15.2	-14.184	8	Pass
5825	165		-0.292	-15.2	-15.492	8	Pass
5745	149	5.8 GHz Band	0.297	-15.2	-14.903	8	Pass
5785	157		0.279	-15.2	-14.921	8	Pass
5825	165		-0.071	-15.2	-15.271	8	Pass

Note : PSD = Spectrum Value + BWCF

RESULT PLOTS

Power Spectral Density (802.11b-CH 1)



Power Spectral Density (802.11b-CH 6)



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Power Spectral Density (802.11b-CH 11)



Power Spectral Density (802.11g-CH 1)



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Power Spectral Density (802.11g-CH 6)



Power Spectral Density (802.11g-CH11)



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Power Spectral Density (802.11n-CH 1)



Power Spectral Density (802.11n-CH 6)



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Power Spectral Density (802.11n-CH11)



Power Spectral Density (802.11a-CH 149)



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Power Spectral Density (802.11a-CH 157)



Power Spectral Density (802.11a-CH 165)

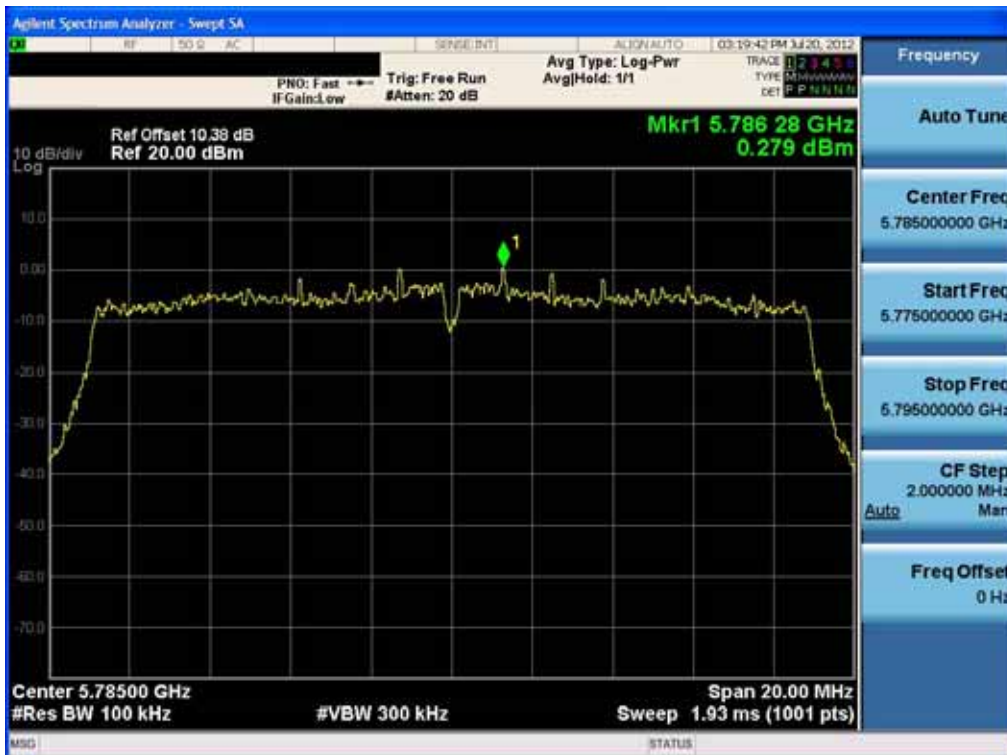


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Power Spectral Density (802.11n-CH 149)



Power Spectral Density (802.11n-CH 157)



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8.4 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 § 15.209(a) (see § 15.205(c)).

Limit : 20 dBc

■ TEST CONFIGURATION

■ TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer.

RBW = 100 kHz(Upon 1 GHz = 1 MHz)

VBW = 300 kHz(Upon 1 GHz = 1 MHz)

Set span to encompass the spectrum to be examined

Detector = Peak

Trace Mode = max hold

Sweep = auto couple

Measurements are made over the 30 MHz to 40 GHz 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 and 5.8 GHz range that was rounded off to the closest tenth dB.
Actual value of loss for the attenuator and cable combination is below table.

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Band	Frequency(MHz)	Loss(dB)
2.4 GHz	2412	10.11
	2437	10.10
	2462	10.12
5.8 GHz	5745	10.37
	5785	10.38
	5825	10.37

(Actual value of loss for the attenuator and cable combination)

4. In case of conducted spurious emissions test, please check factors blow table.

■ FACTORS FOR FREQUENCY

Freq(MHz)	Factor(dB)
30	10.37
100	10.16
200	10.15
300	10.14
400	10.18
500	10.19
600	10.20
700	10.30
800	10.25
900	10.28
1000	10.29
2000	10.17
2400*	10.10
2500*	10.12
3000	10.26
4000	10.31
5000	9.85
5700*	10.40
5800*	10.38
6000	10.20
7000	10.60
8000	10.53
9000	10.23
10000	10.41
11000	10.65
12000	11.19
13000	10.97

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14000	11.42
15000	12.01
16000	11.77
17000	10.78
18000	10.76
19000	11.15
20000	10.75
21000	10.82
22000	10.82
23000	11.26
24000	11.08
25000	11.18
26000	10.90
27000	11.32
28000	11.33
29000	11.77
30000	11.40
31000	11.82
32000	11.07
33000	13.05
34000	15.68
35000	14.08
36000	15.88
37000	17.32
38000	15.44
39000	14.48
40000	16.50

Note : 1. ** is fundamental frequency range.
 2. Factor = Cable loss + Attenuator loss

RESULT PLOTS

BandEdge (802.11b-CH1)



BandEdge (802.11b-CH11)

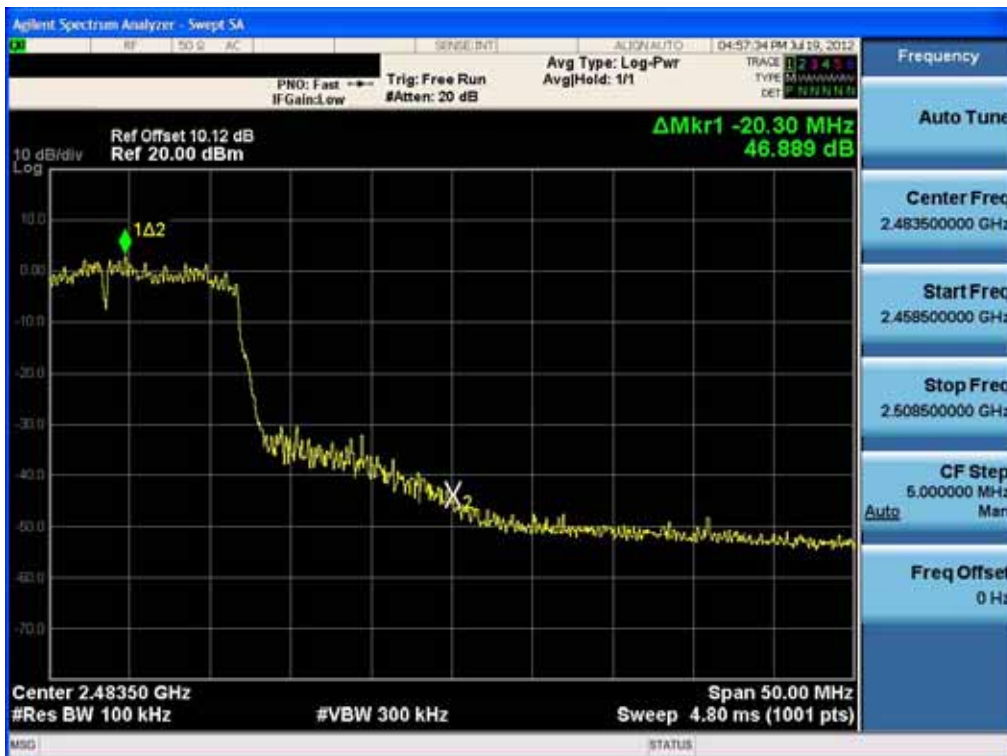


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFP895

BandEdge (802.11g-CH1)



BandEdge (802.11g-CH11)



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BandEdge (802.11n-CH1)



BandEdge (802.11n-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1208FR18	Date of Issue: August 16, 2012	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFP895