

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



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



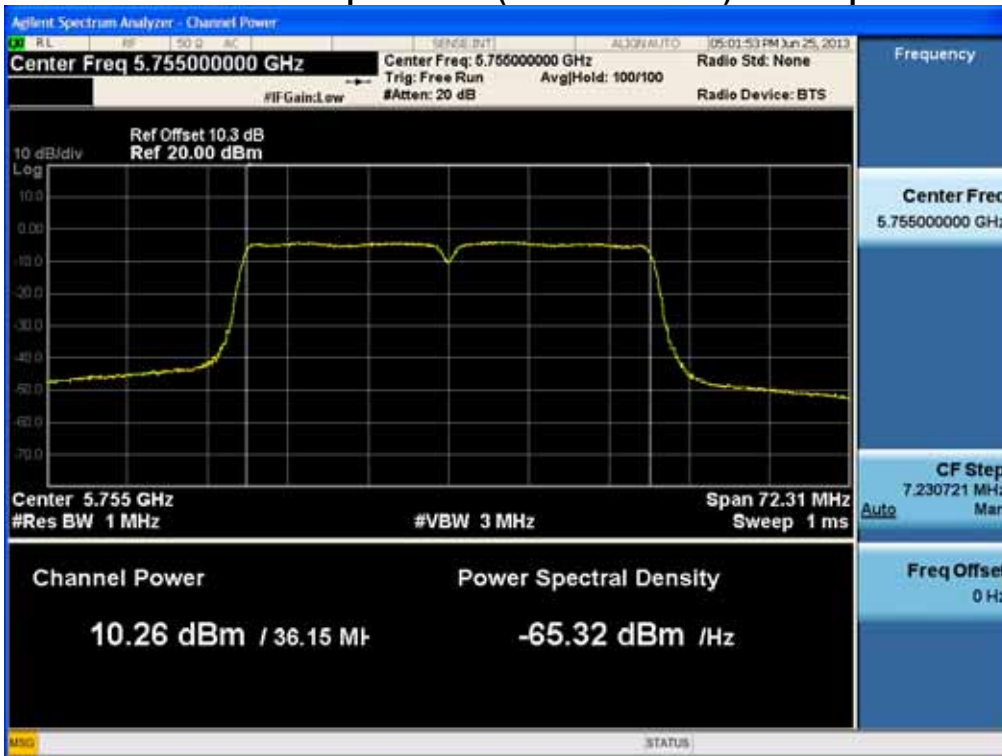
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F



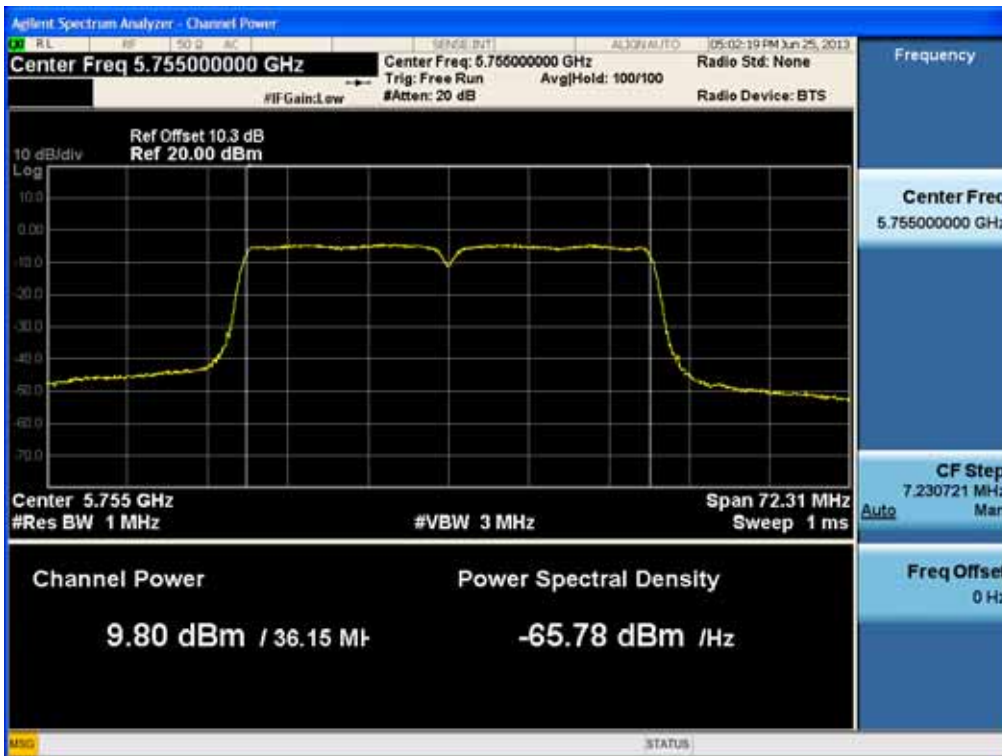
40 MHz BW

(5755 MHz ~5795 MHz)

Conducted Output Power (802.11n-CH 151) 13.5 Mbps

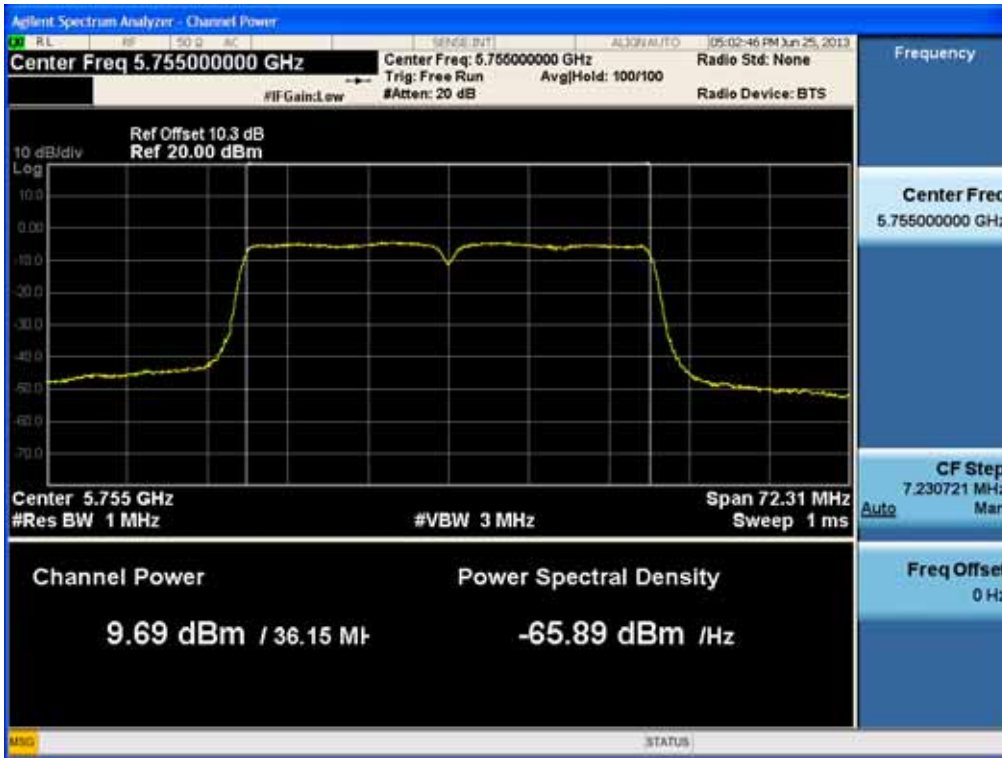


Conducted Output Power (802.11n-CH 151) 27 Mbps



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Conducted Output Power (802.11n-CH 151) 40.5 Mbps



Conducted Output Power (802.11n-CH 151) 54 Mbps

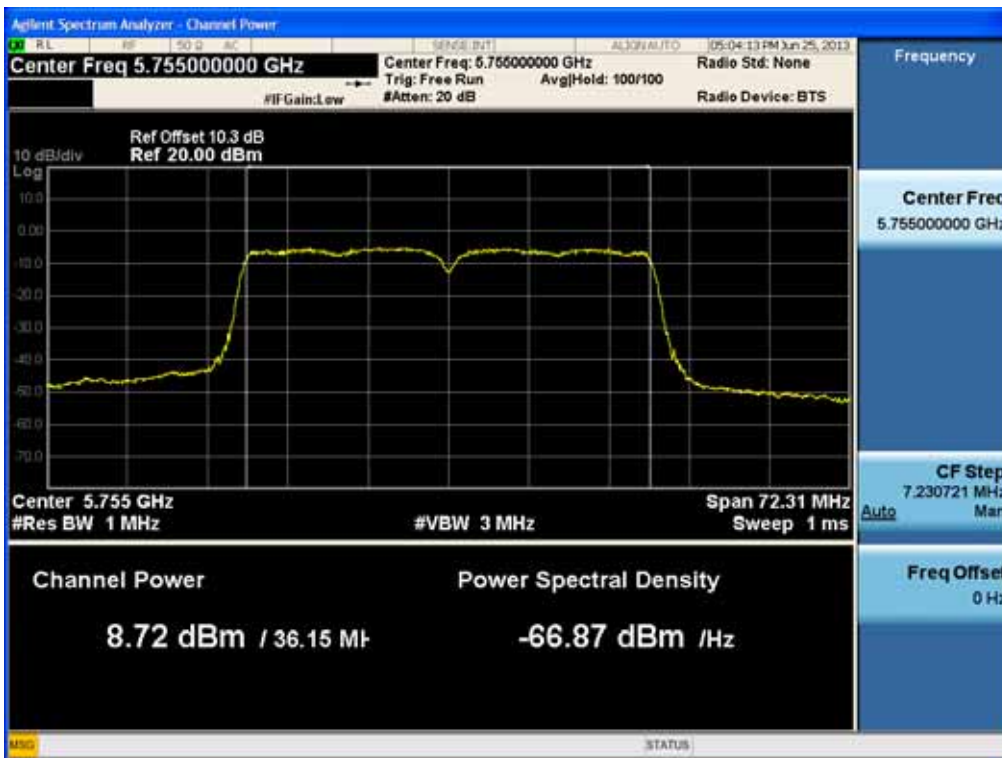


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Conducted Output Power (802.11n-CH 151) 81 Mbps



Conducted Output Power (802.11n-CH 151) 108 Mbps



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Conducted Output Power (802.11n-CH 151) 121.5 Mbps



Conducted Output Power (802.11n-CH 151) 135 Mbps



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Conducted Output Power (802.11n-CH 159) 13.5 Mbps



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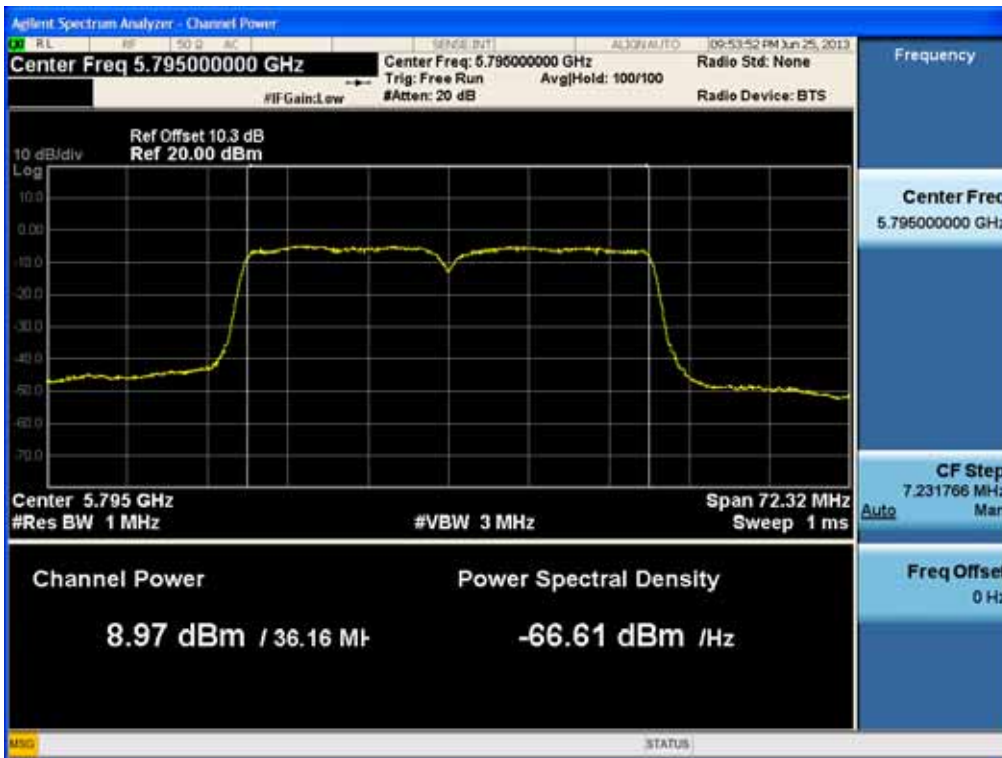


Conducted Output Power (802.11n-CH 159) 54 Mbps

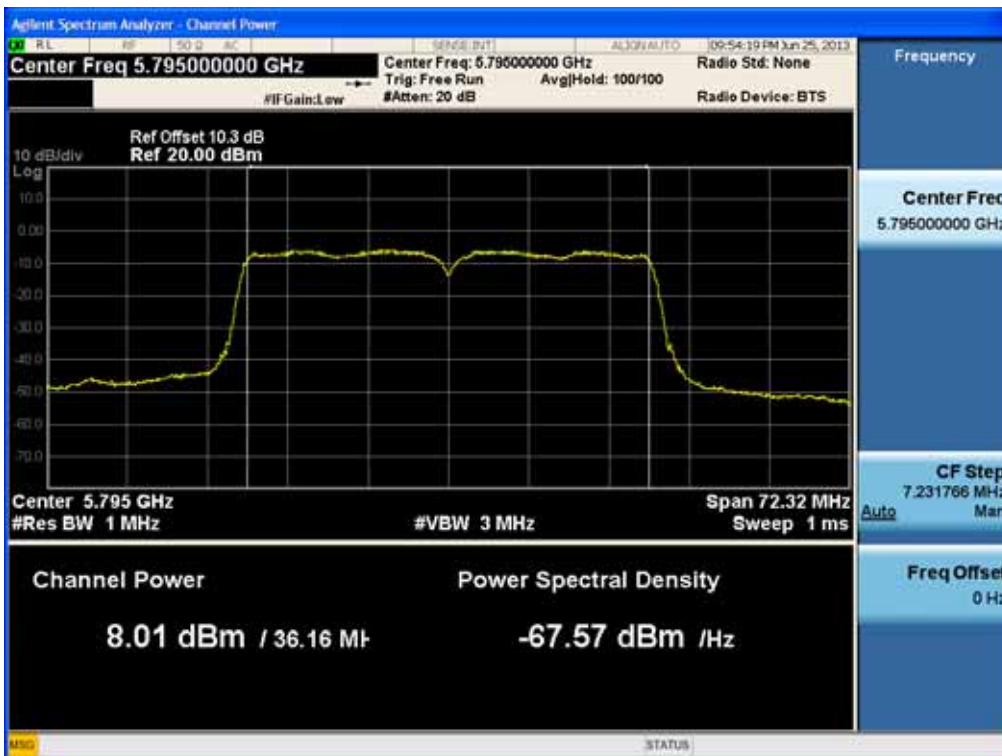


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Conducted Output Power (802.11n-CH 159) 121.5 Mbps



Conducted Output Power (802.11n-CH 159) 135 Mbps



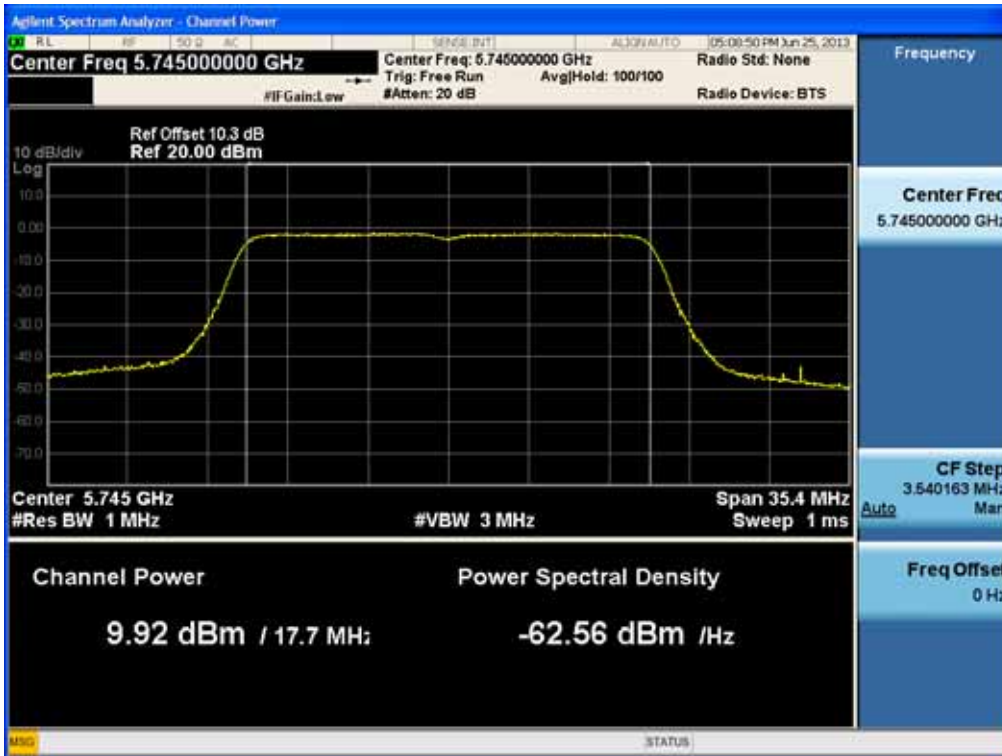
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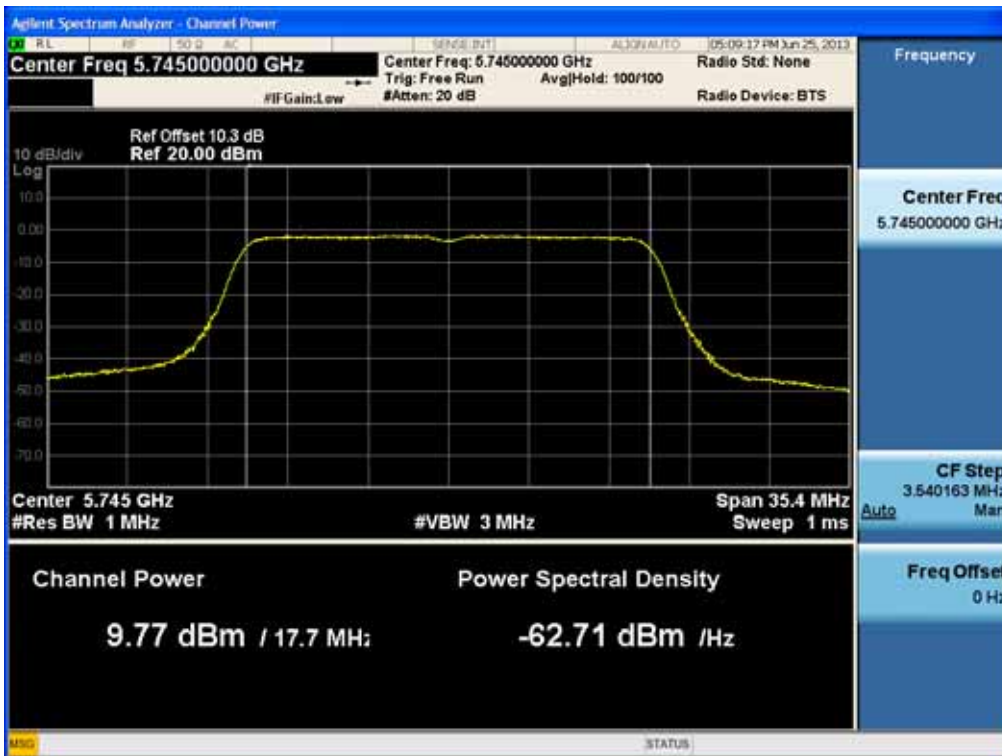
20 MHz BW

(5745 MHz ~5825 MHz)

Conducted Output Power (802.11ac-CH 149) MCS0Mbps



Conducted Output Power (802.11ac-CH 149) MCS1Mbps

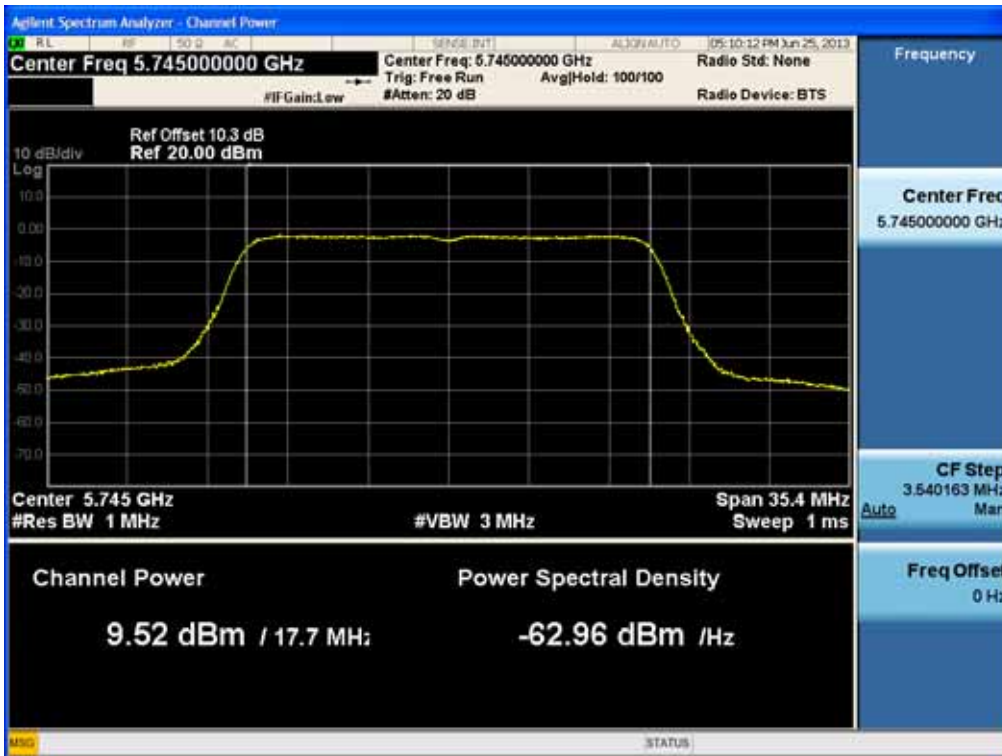


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Conducted Output Power (802.11ac-CH 149) MCS2Mbps



Conducted Output Power (802.11ac-CH 149) MCS3Mbps

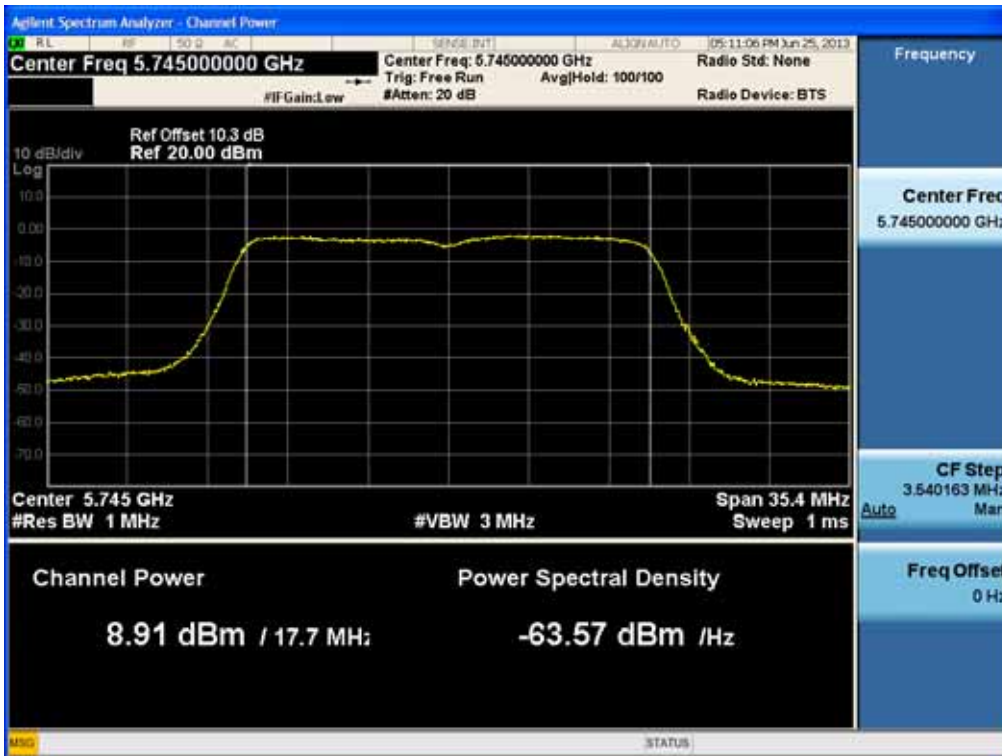


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Conducted Output Power (802.11ac-CH 149) MCS4Mbps



Conducted Output Power (802.11ac-CH 149) MCS5Mbps



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Conducted Output Power (802.11ac-CH 149) MCS6Mbps

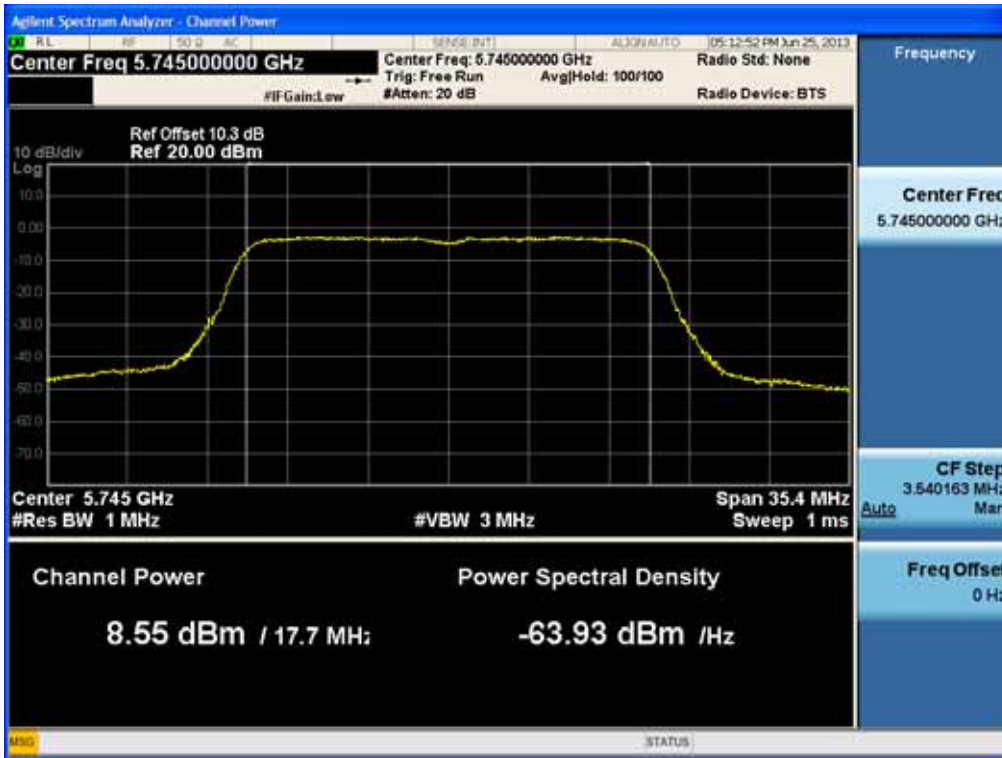


Conducted Output Power (802.11ac-CH 149) MCS7Mbps



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Conducted Output Power (802.11ac-CH 149) MCS8Mbps



Conducted Output Power (802.11ac-CH 157) MCS0Mbps

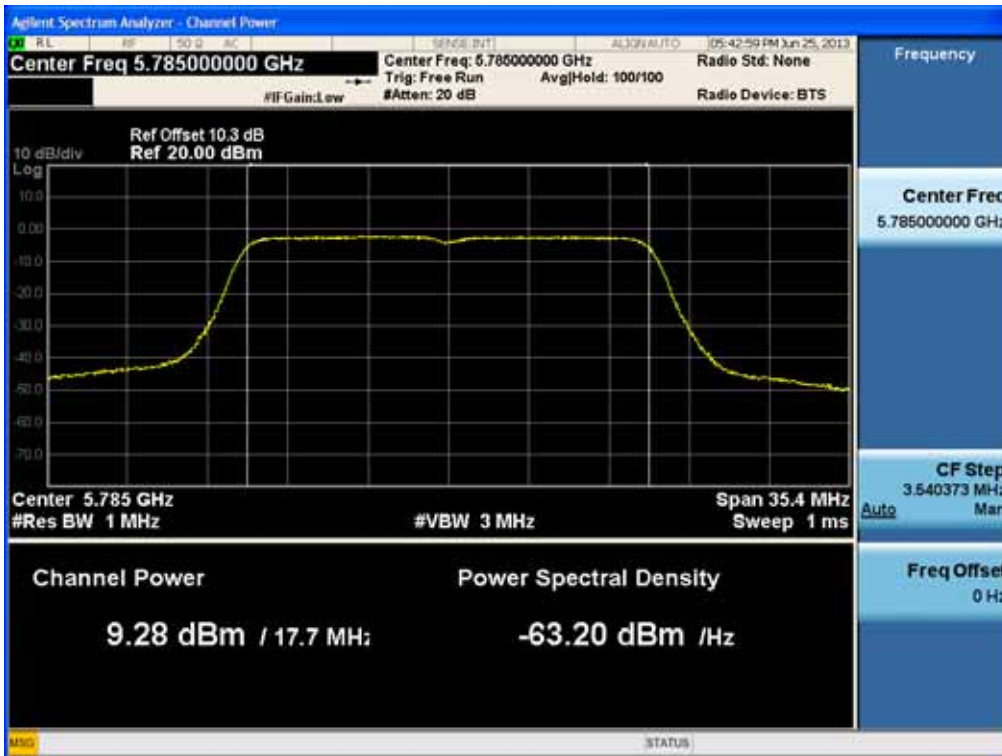


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Conducted Output Power (802.11ac-CH 157) MCS1Mbps



Conducted Output Power (802.11ac-CH 157) MCS2Mbps



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Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Conducted Output Power (802.11ac-CH 157) MCS3Mbps



Conducted Output Power (802.11ac-CH 157) MCS4Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Conducted Output Power (802.11ac-CH 157) MCS5Mbps



Conducted Output Power (802.11ac-CH 157) MCS6Mbps



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Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Conducted Output Power (802.11ac-CH 157) MCS7Mbps



Conducted Output Power (802.11ac-CH 157) MCS8Mbps



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Conducted Output Power (802.11ac-CH 165) MCS0Mbps



Conducted Output Power (802.11ac-CH 165) MCS1Mbps



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Conducted Output Power (802.11ac-CH 165) MCS2Mbps



Conducted Output Power (802.11ac-CH 165) MCS3Mbps



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Conducted Output Power (802.11ac-CH 165) MCS4Mbps



Conducted Output Power (802.11ac-CH 165) MCS5Mbps

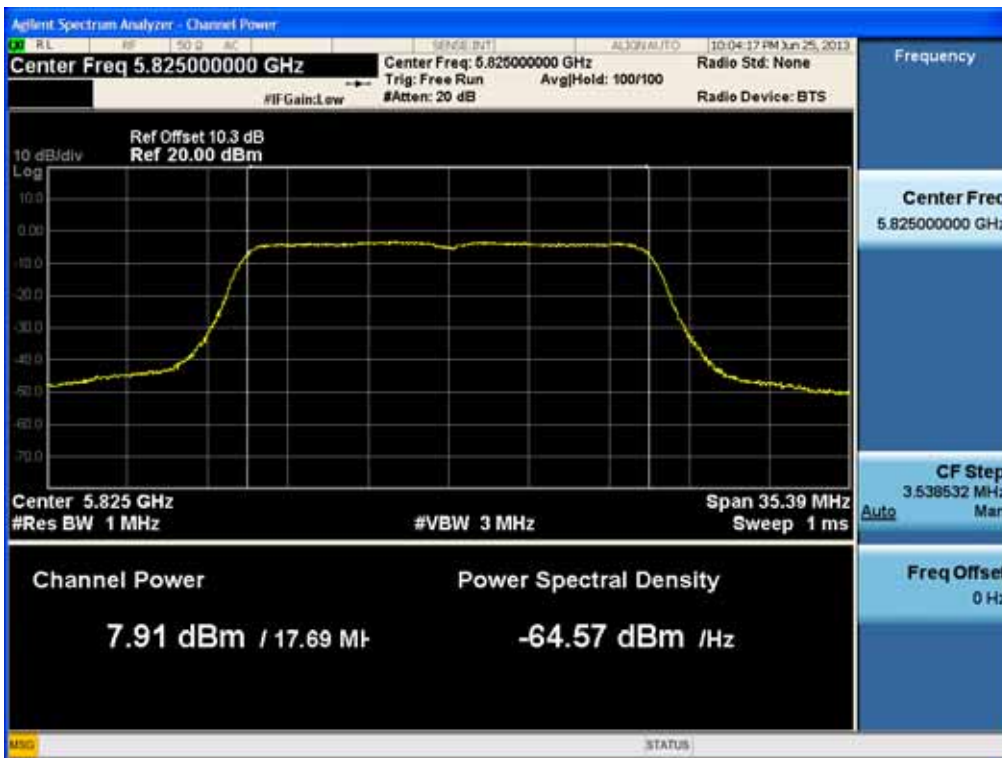


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Conducted Output Power (802.11ac-CH 165) MCS6Mbps



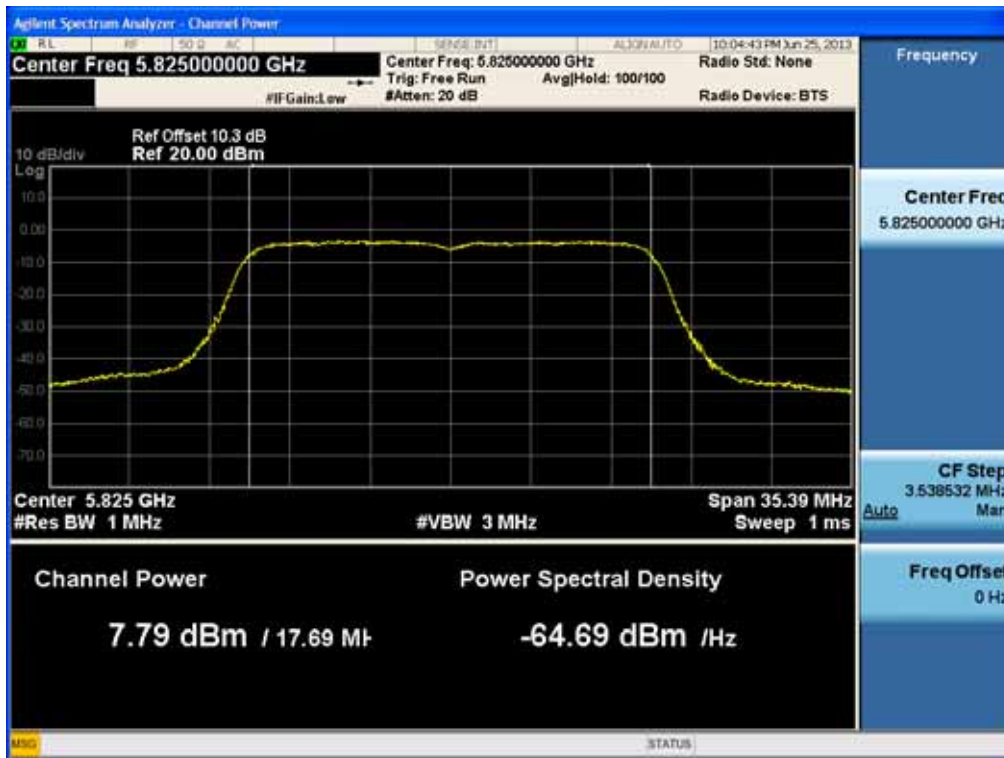
Conducted Output Power (802.11ac-CH 165) MCS7Mbps



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Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Conducted Output Power (802.11ac-CH 165) MCS8Mbps



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40 MHz BW

(5755 MHz ~5795 MHz)

Conducted Output Power (802.11ac-CH 151) MCS0Mbps



Conducted Output Power (802.11ac-CH 151) MCS1Mbps

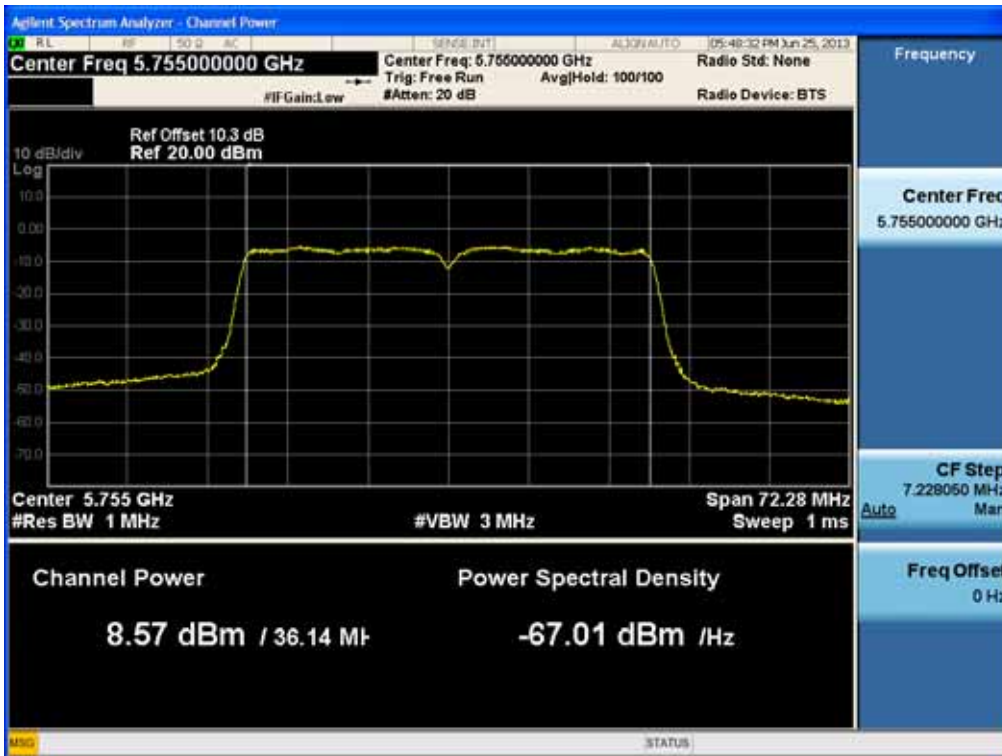


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Conducted Output Power (802.11ac-CH 151) MCS2Mbps



Conducted Output Power (802.11ac-CH 151) MCS3Mbps



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Conducted Output Power (802.11ac-CH 151) MCS4Mbps



Conducted Output Power (802.11ac-CH 151) MCS5Mbps

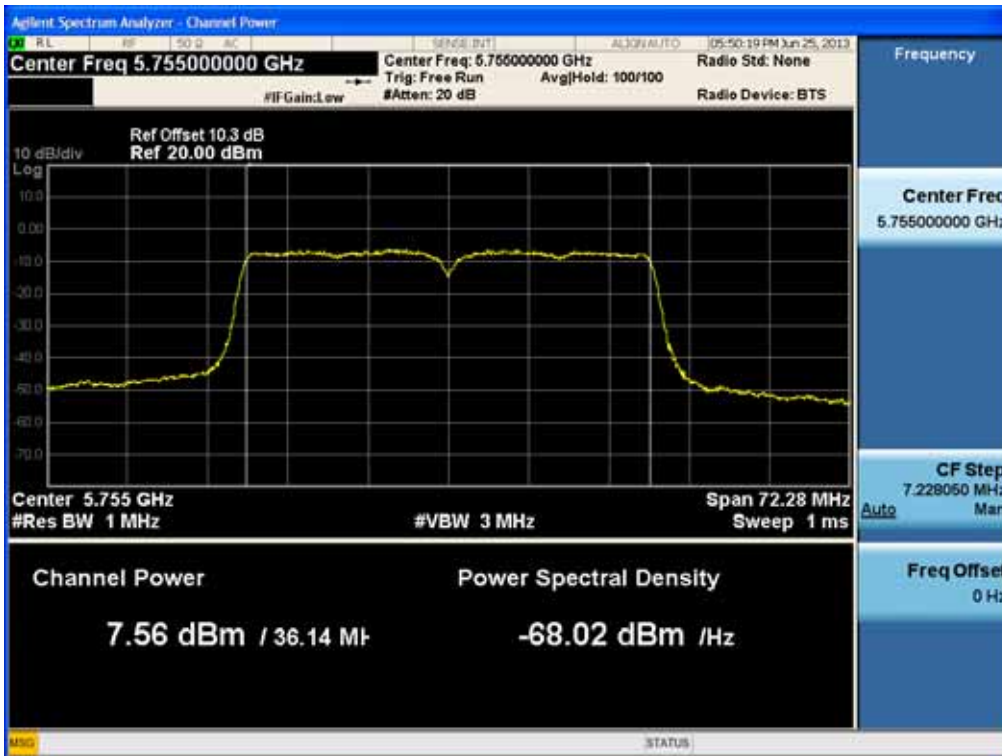


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Conducted Output Power (802.11ac-CH 151) MCS6Mbps



Conducted Output Power (802.11ac-CH 151) MCS7Mbps



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Conducted Output Power (802.11ac-CH 151) MCS8Mbps



Conducted Output Power (802.11ac-CH 151) MCS9Mbps



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Conducted Output Power (802.11ac-CH 159) MCS0Mbps



Conducted Output Power (802.11ac-CH 159) MCS1Mbps

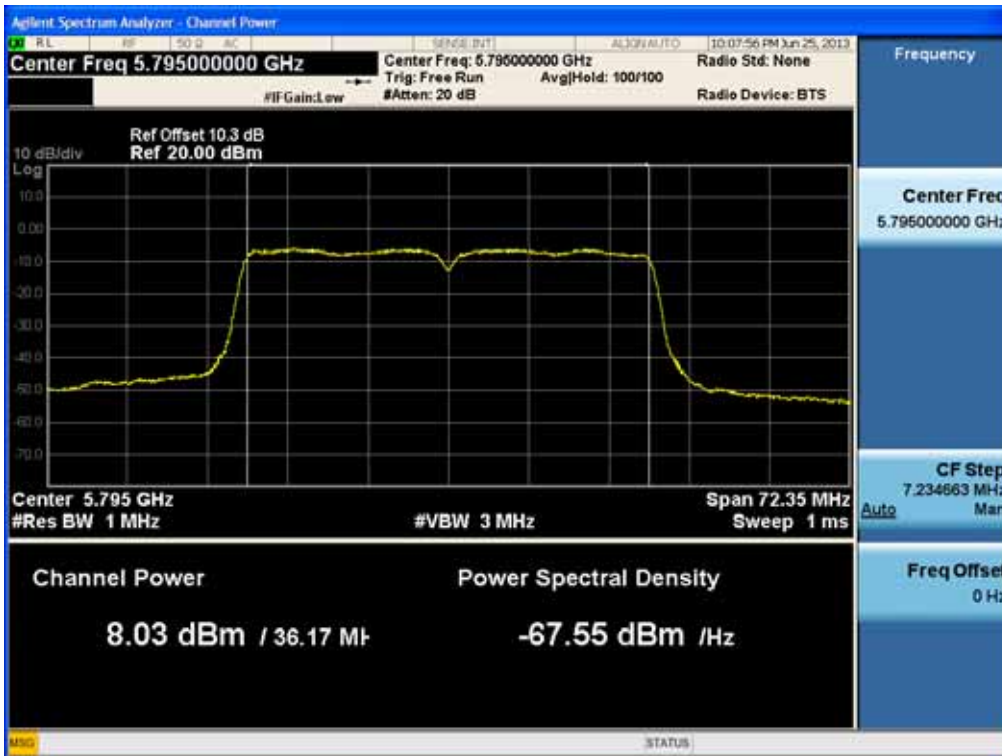


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Conducted Output Power (802.11ac-CH 159) MCS2Mbps



Conducted Output Power (802.11ac-CH 159) MCS3Mbps

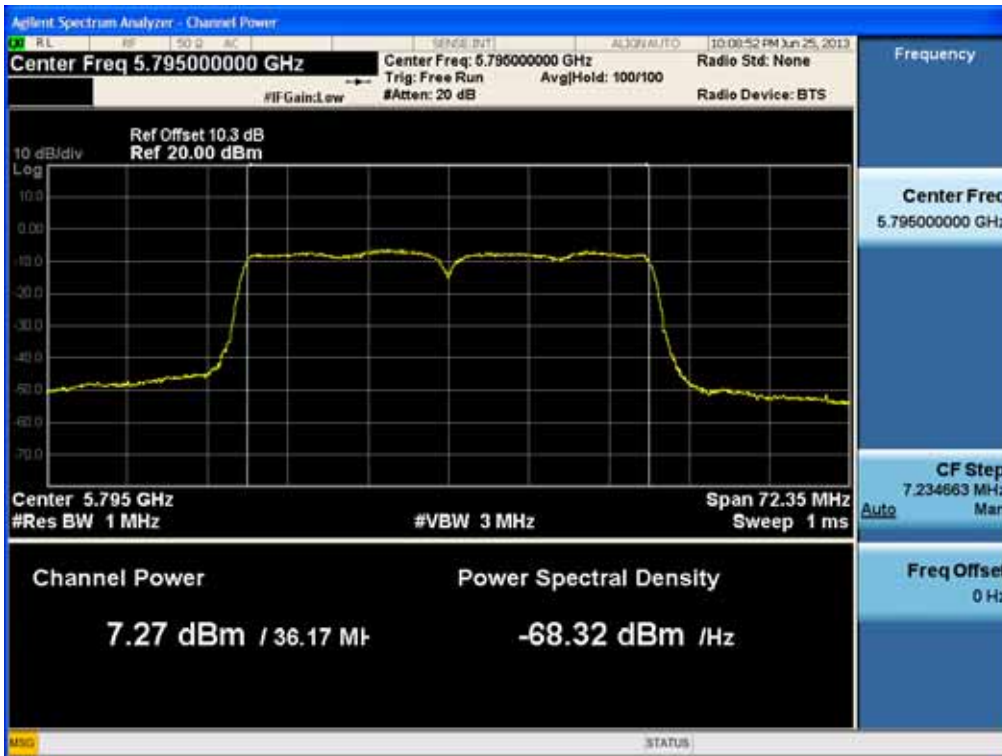


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Conducted Output Power (802.11ac-CH 159) MCS4Mbps



Conducted Output Power (802.11ac-CH 159) MCS5Mbps

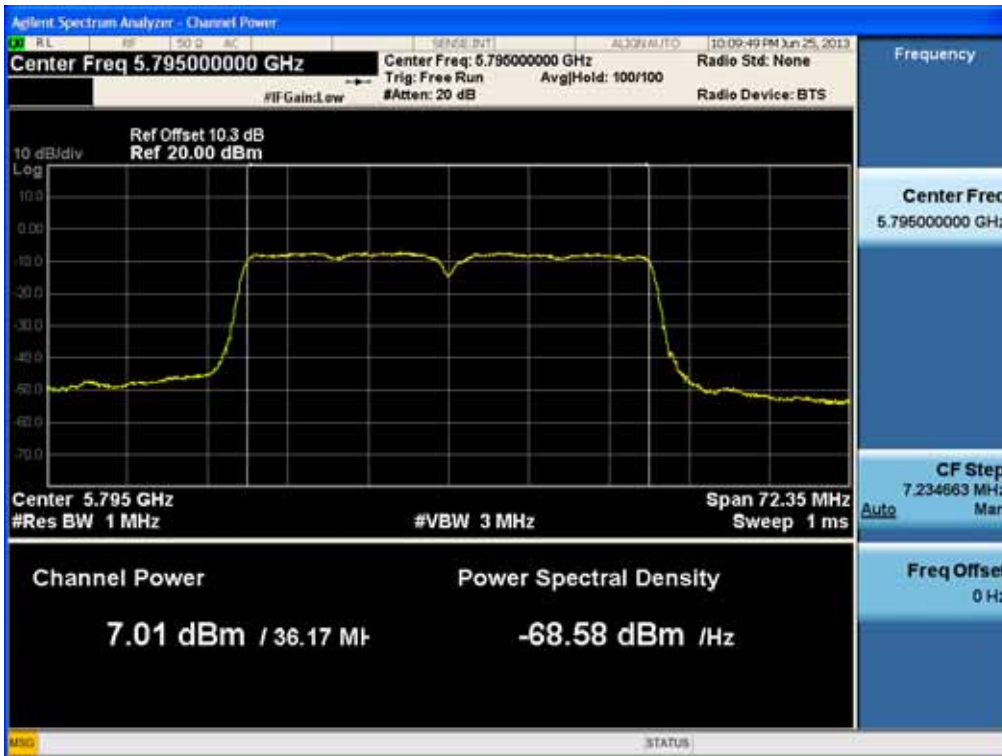


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Conducted Output Power (802.11ac-CH 159) MCS6Mbps



Conducted Output Power (802.11ac-CH 159) MCS7Mbps

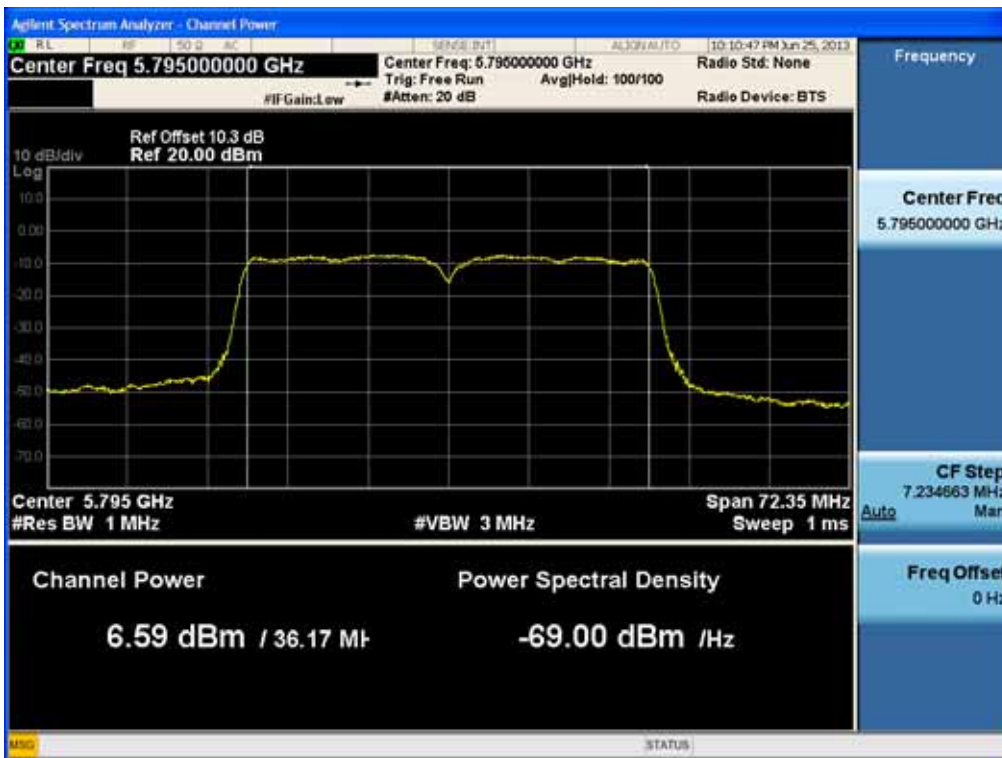


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Conducted Output Power (802.11ac-CH 159) MCS8Mbps



Conducted Output Power (802.11ac-CH 159) MCS9Mbps



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80 MHz BW
(5755 MHz)

Conducted Output Power (802.11ac-CH 155) MCS0Mbps



Conducted Output Power (802.11ac-CH 155) MCS1Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Conducted Output Power (802.11ac-CH 155) MCS2Mbps



Conducted Output Power (802.11ac-CH 155) MCS3Mbps

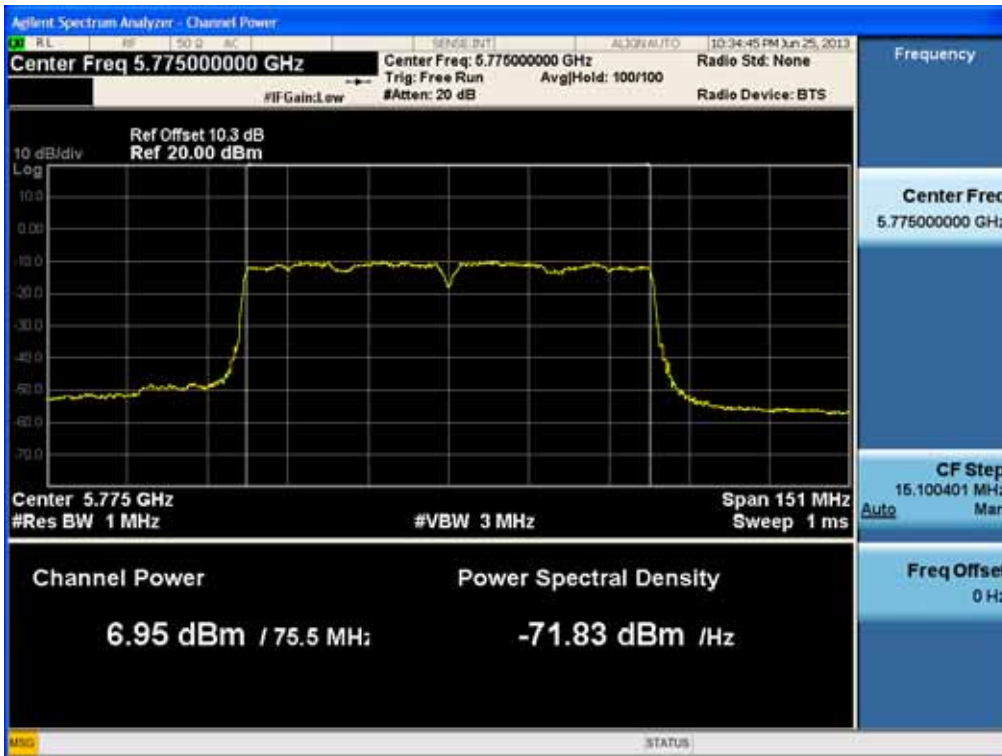


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Conducted Output Power (802.11ac-CH 155) MCS4Mbps



Conducted Output Power (802.11ac-CH 155) MCS5Mbps



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Conducted Output Power (802.11ac-CH 155) MCS6Mbps



Conducted Output Power (802.11ac-CH 155) MCS7Mbps



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Conducted Output Power (802.11ac-CH 155) MCS8Mbps



Conducted Output Power (802.11ac-CH 155) MCS9Mbps



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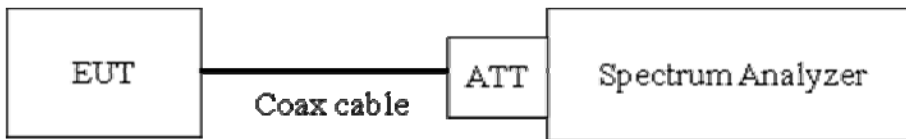
8.4 POWER SPECTRAL DENSITY (802.11a/b/g/n/ac)

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 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 ≤ RBW ≤ 100 kHz.

VBW ≥ 3 x 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

$$\begin{aligned} \text{PSD} &= \text{Reading Value} + \text{ATT loss} + \text{Cable loss}(1 \text{ ea}) \\ &= -5 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} = 5.8 \text{ dBm} \end{aligned}$$

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. So, 10.2 dB is offset for 2.4 GHz Band and 10.3 dB is offset for 5.8 GHz Band.
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	10.21
	2437	10.24
	2462	10.24
5.8 GHz	5745	10.31
	5755	10.30
	5785	10.29
	5795	10.26
	5825	10.28

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

TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-6.730	8	Pass
2437	6		-8.032		Pass
2462	11		-7.452		Pass
2412	1	802.11g	-11.514		Pass
2437	6		-13.093		Pass
2462	11		-11.521		Pass
2412	1	802.11n	-13.874		Pass
2437	6	2.4 GHz	-13.785		Pass
2462	11	Band	-14.276		Pass
2412	1	802.11ac	-15.552		Pass
2437	6	2.4 GHz	-14.516		Pass
2462	11	Band	-15.290		Pass
5745	149	802.11a	-13.275		Pass
5785	157		-12.975		Pass
5825	165		-13.493		Pass
5745	149	802.11n_20 MHz	-14.384		Pass
5785	157	BW	-15.512		Pass
5825	165	5.8 GHz Band	-15.926		Pass
5755	151	802.11n_40 MHz	-17.952 8		Pass
5795	159	BW	-18.261		Pass
5745	149	802.11ac_20 MHz	-14.439		Pass
5785	157	BW	-14.372		Pass
5825	165	5.8 GHz Band	-15.989		Pass
5755	151	802.11ac_40 MHz	-16.053		Pass
5795	159	BW	-17.418	Pass	
5775	155	802.11ac_80MHz	-21.472	Pass	
		BW			
		5.8 GHz Band			

RESULT PLOTS

Power Spectral Density (802.11b-CH 1)



Power Spectral Density (802.11b-CH 6)

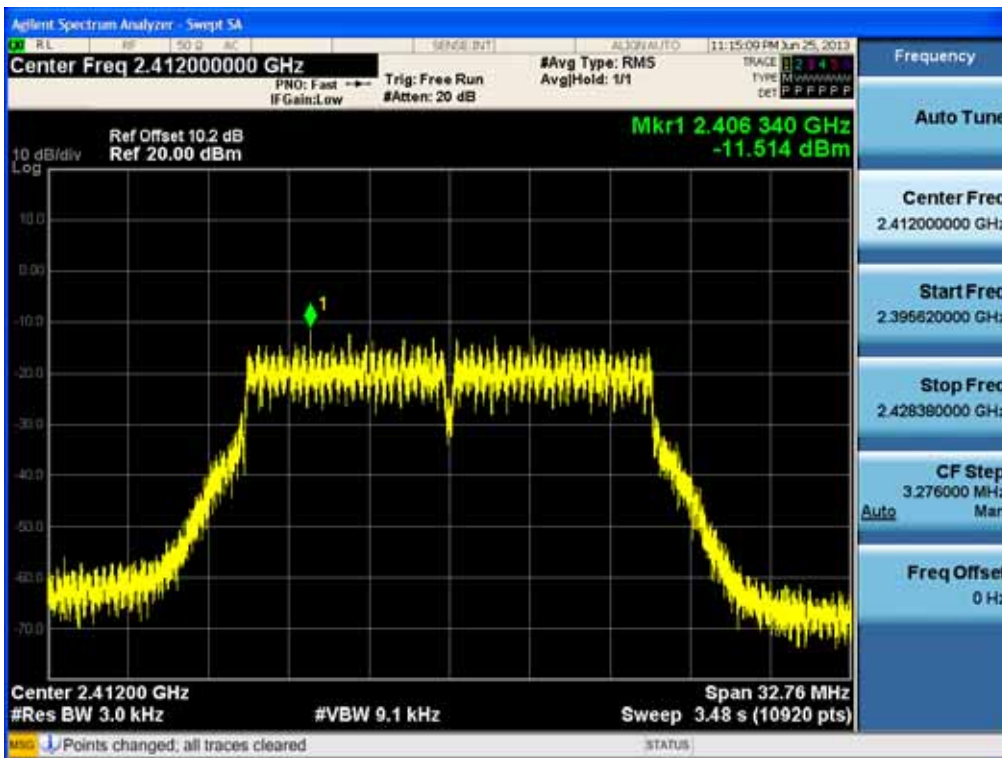


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11b-CH 11)

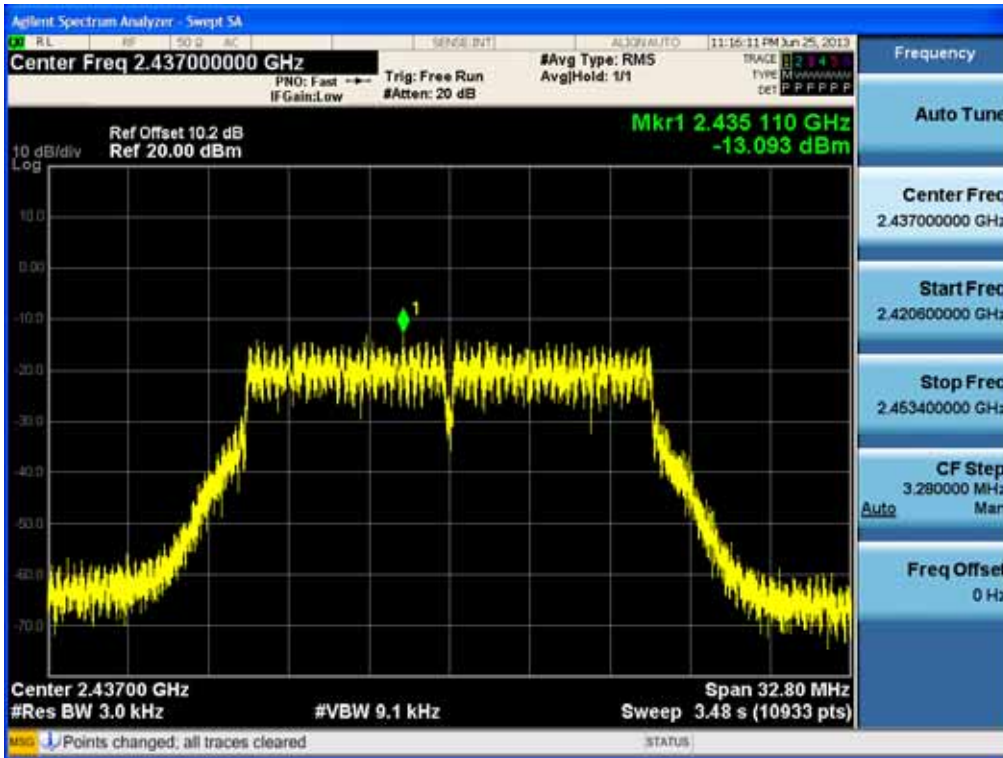


Power Spectral Density (802.11g-CH 1)

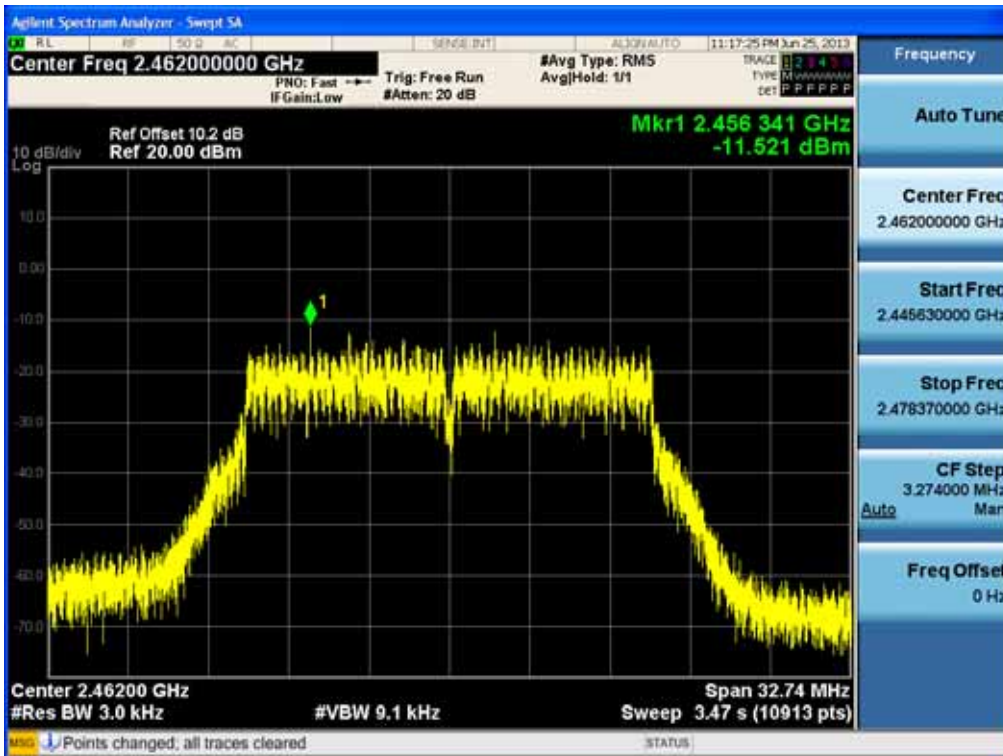


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Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11g-CH 6)

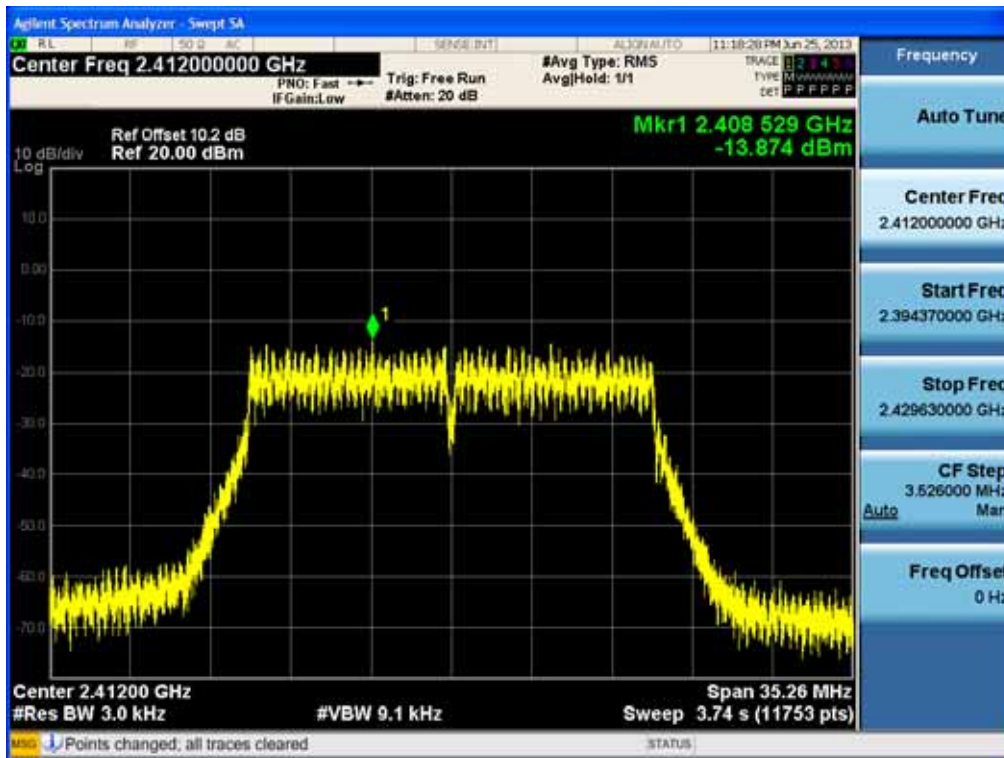


Power Spectral Density (802.11g-CH11)

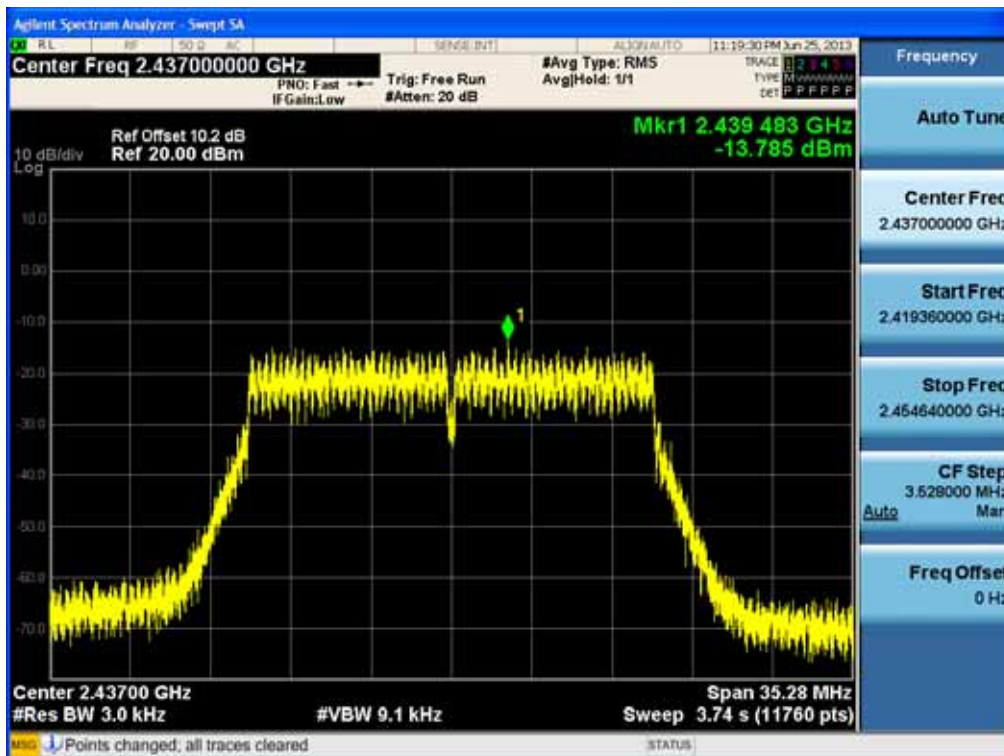


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11n-CH 1)

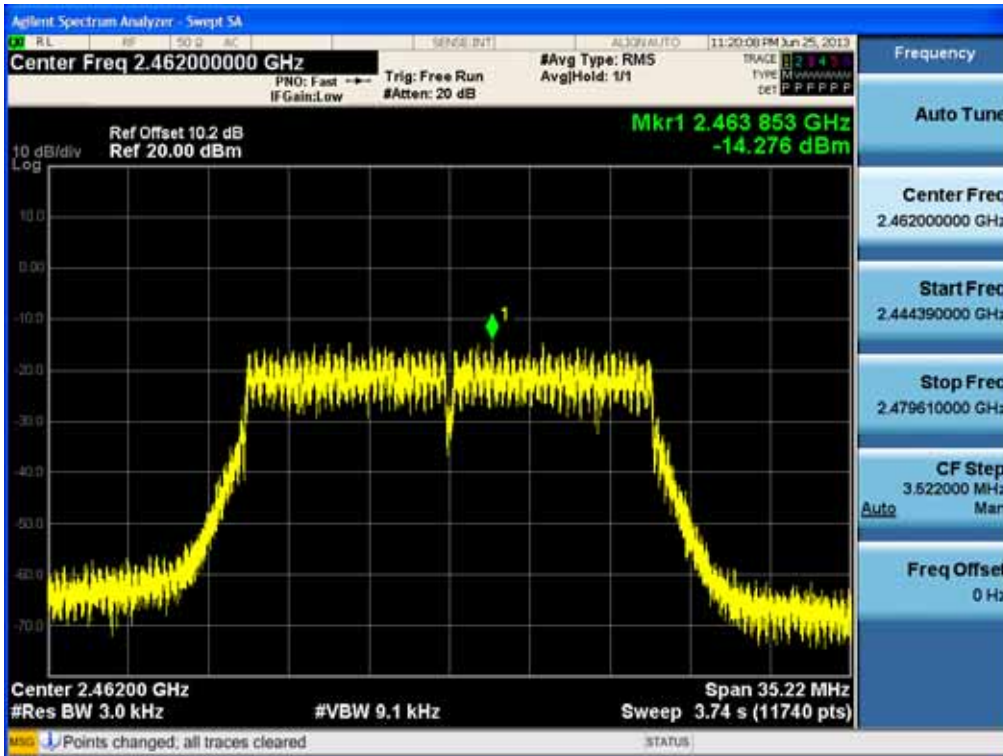


Power Spectral Density (802.11n-CH 6)

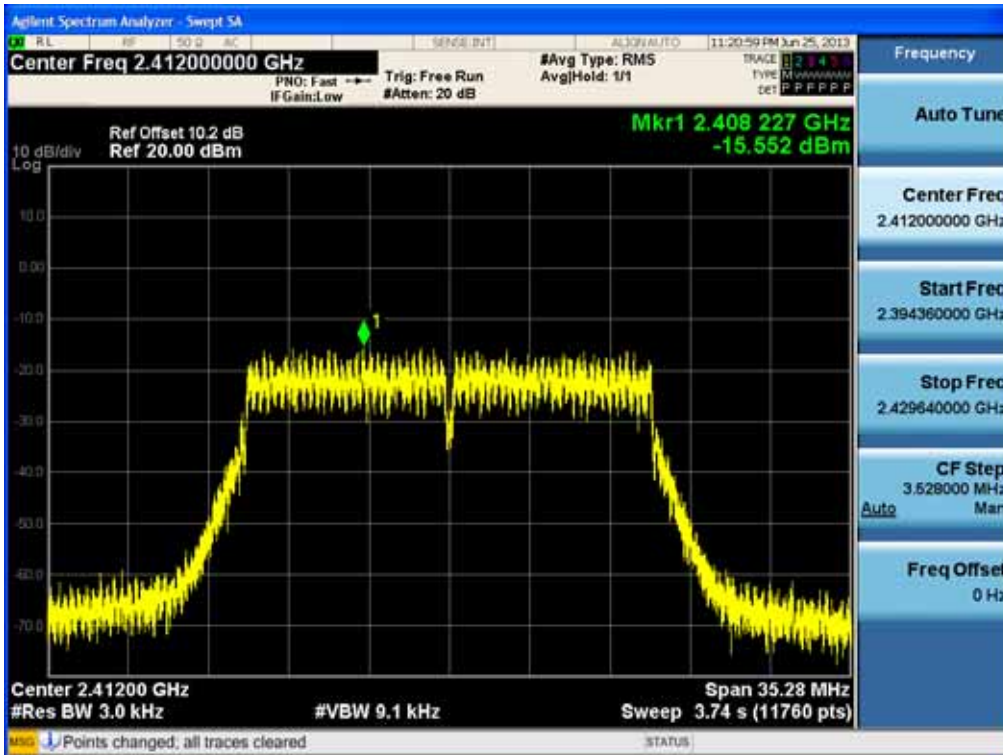


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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Power Spectral Density (802.11n-CH11)

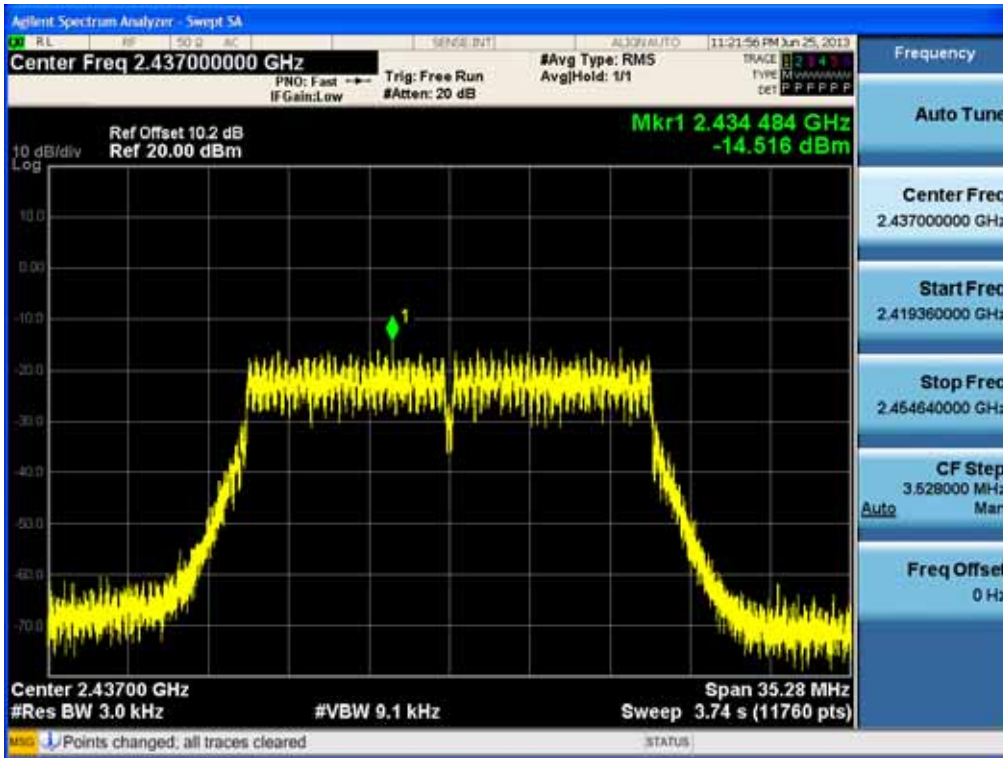


Power Spectral Density (802.11ac-CH 1)

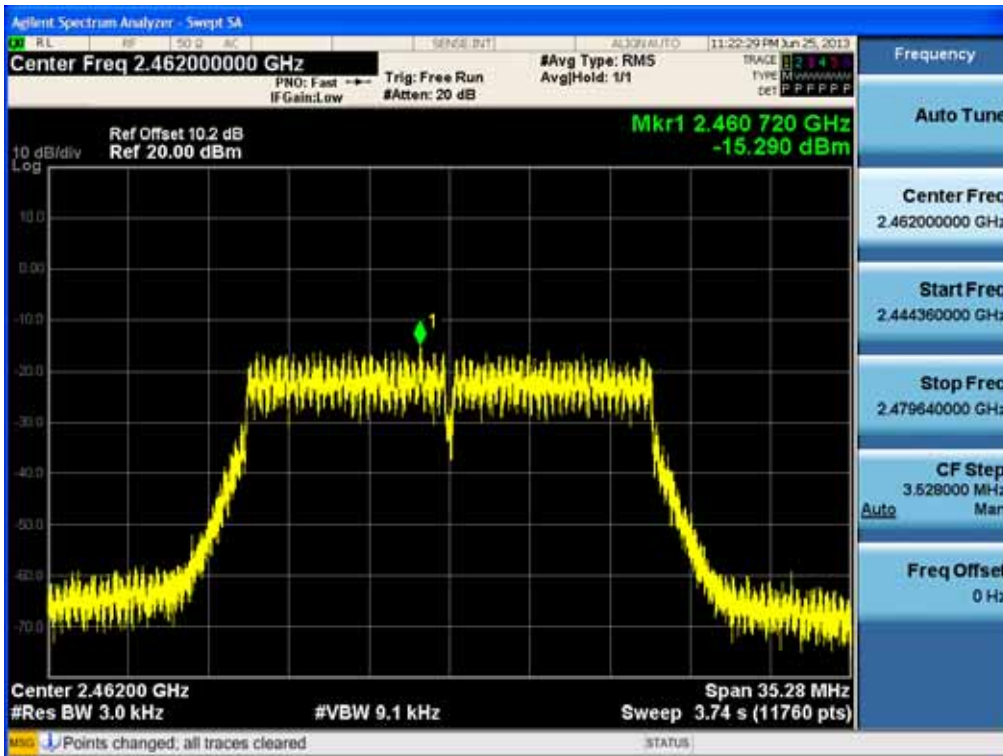


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11ac-CH 6)

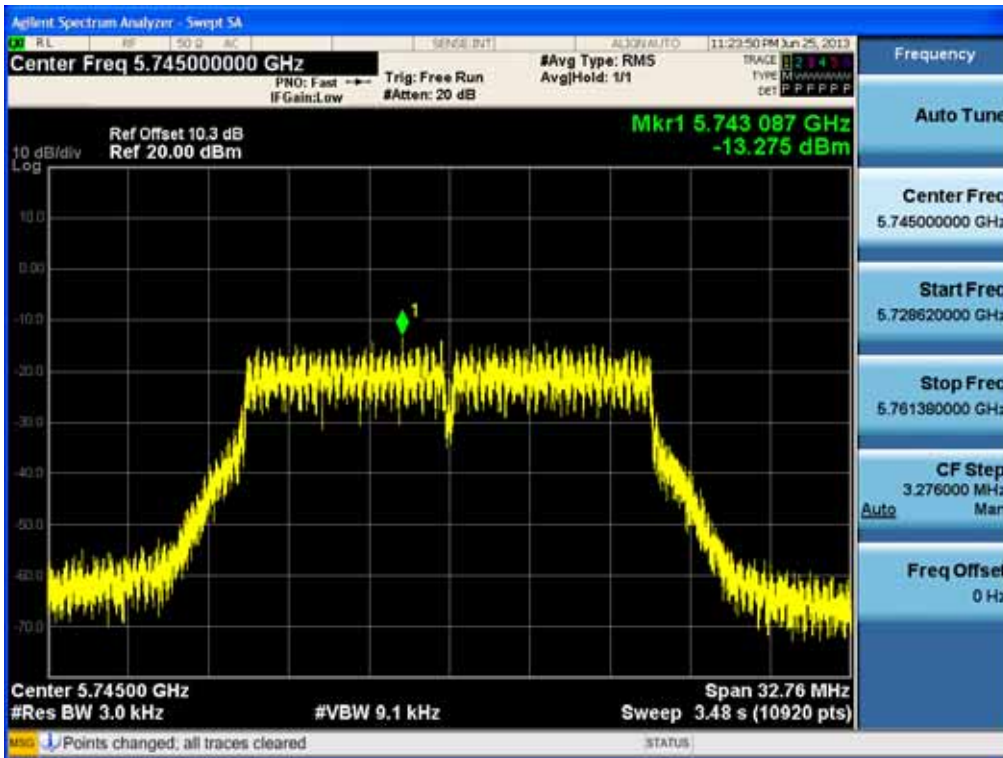


Power Spectral Density (802.11ac-CH 11)

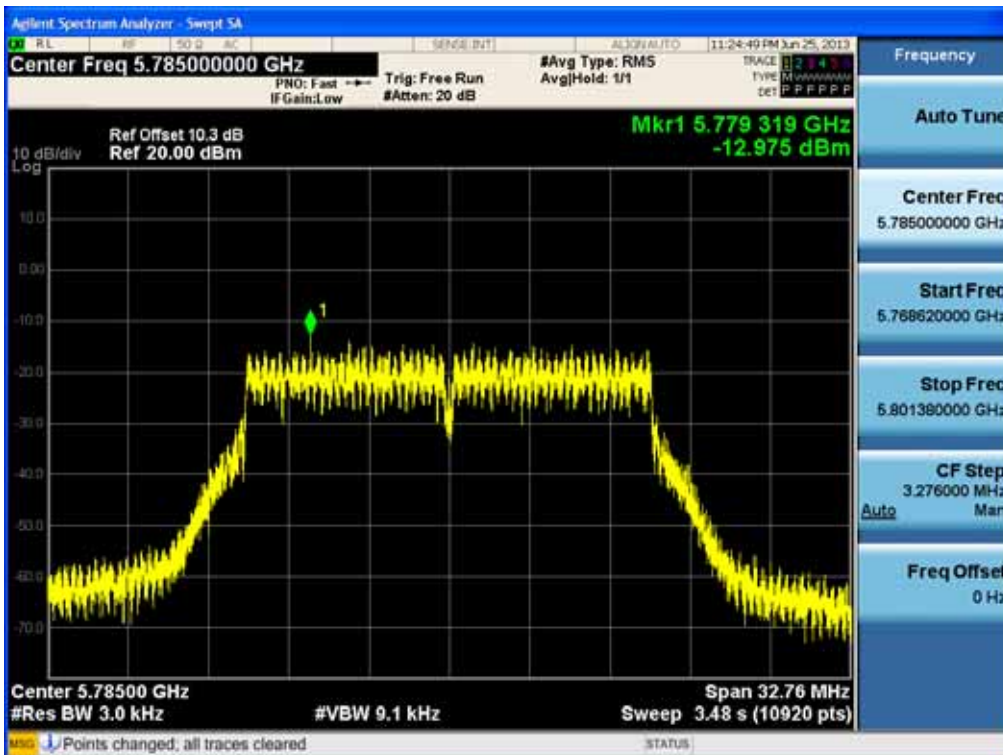


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11a-CH 149)

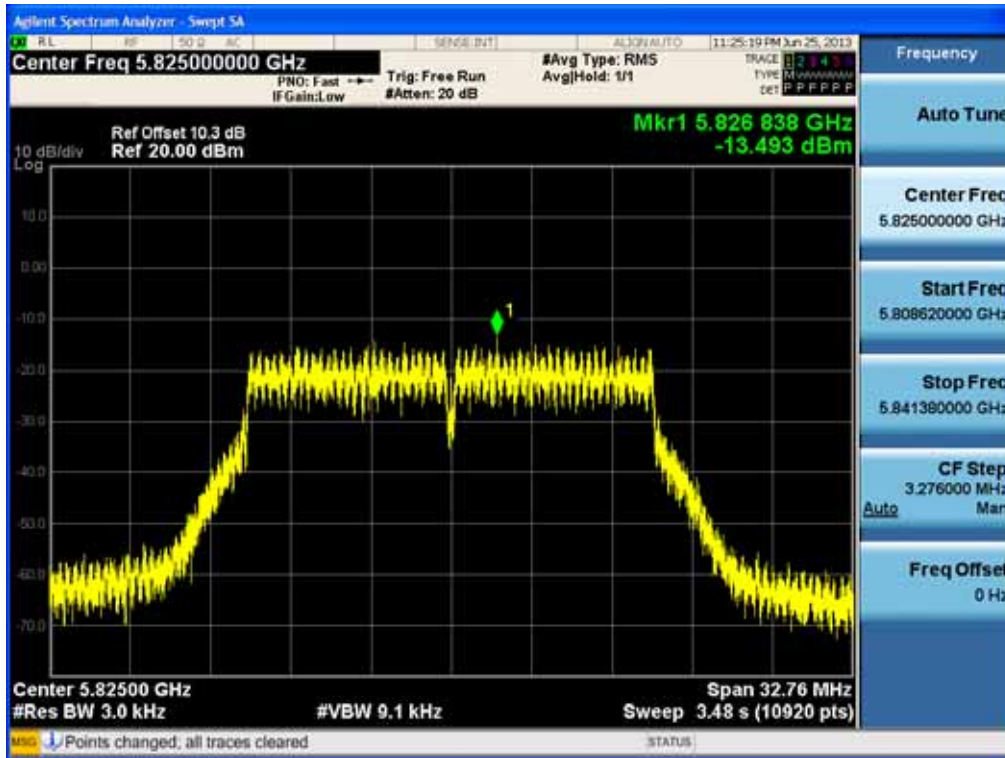


Power Spectral Density (802.11a-CH 157)



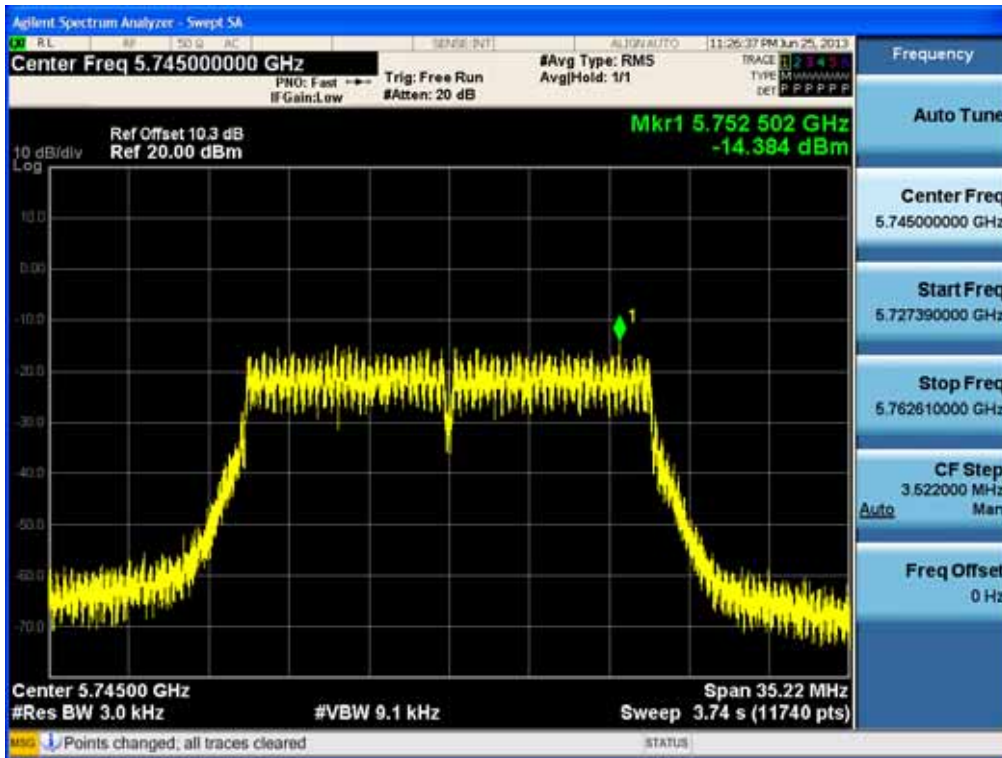
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11a-CH 165)

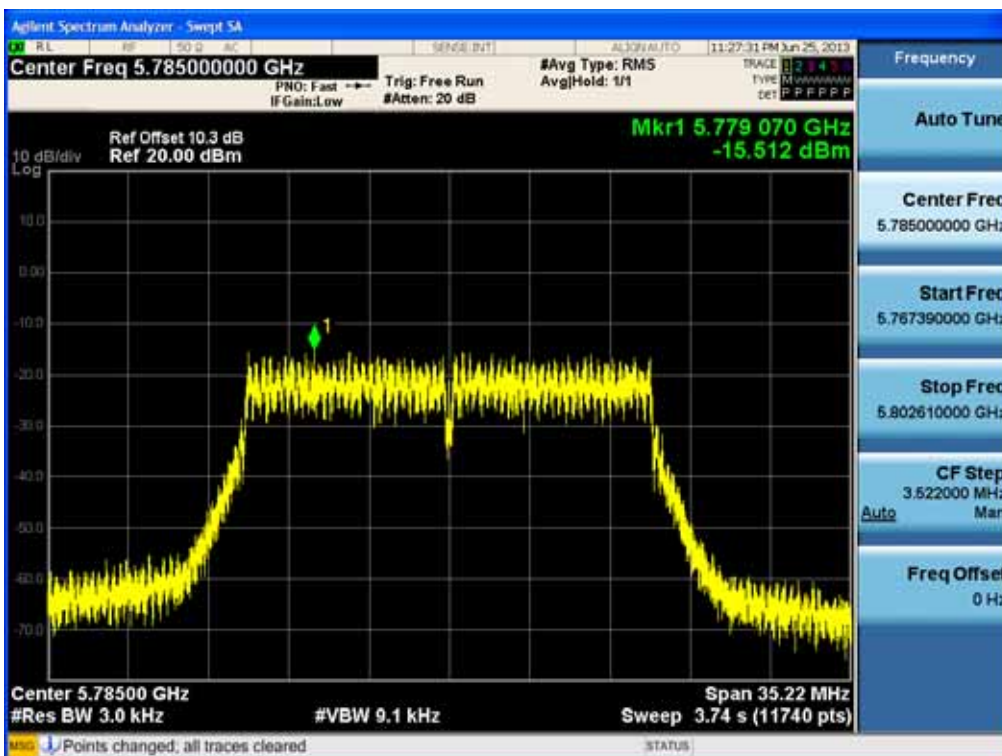


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11n-CH 149)

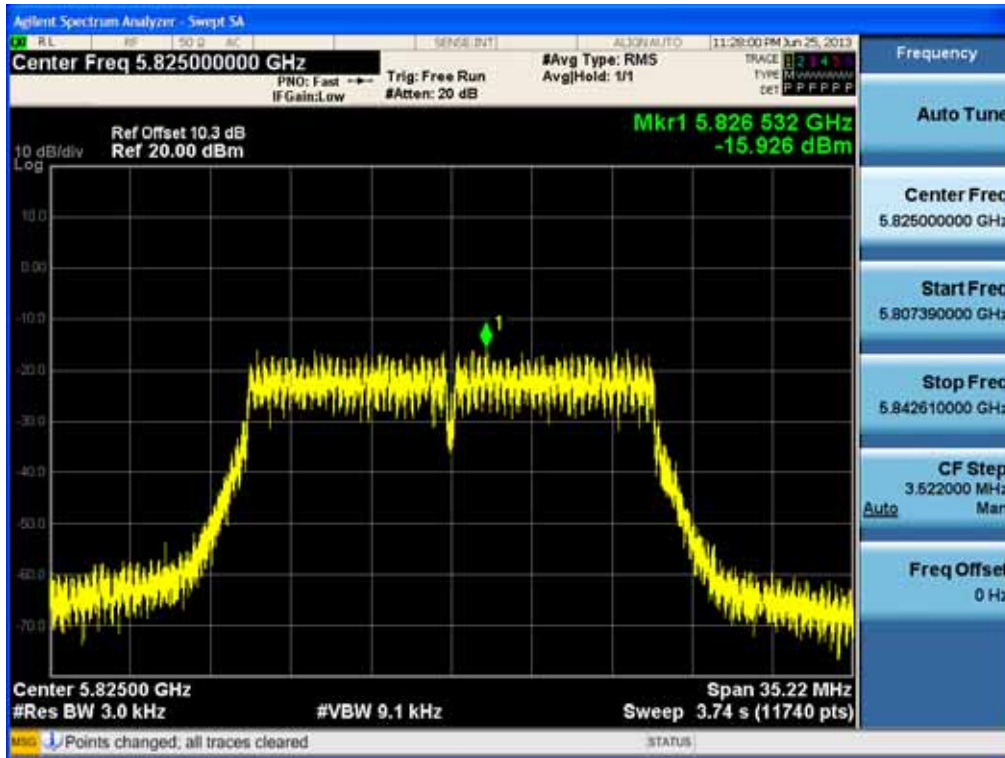


Power Spectral Density (802.11n-CH 157)



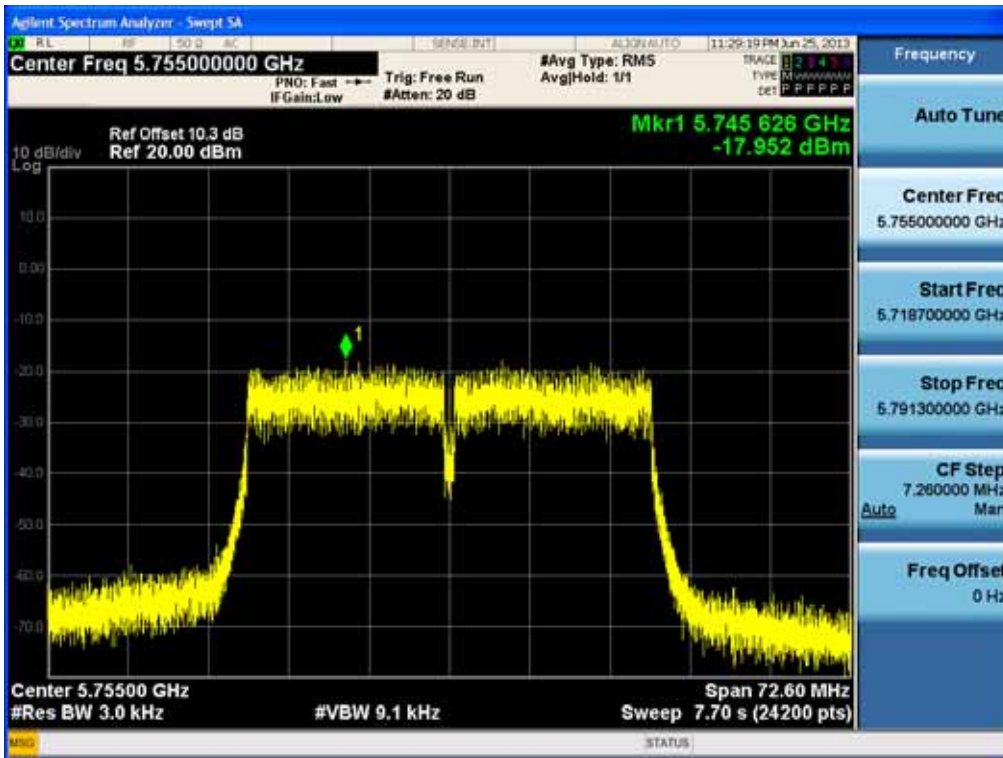
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11n-CH 165)

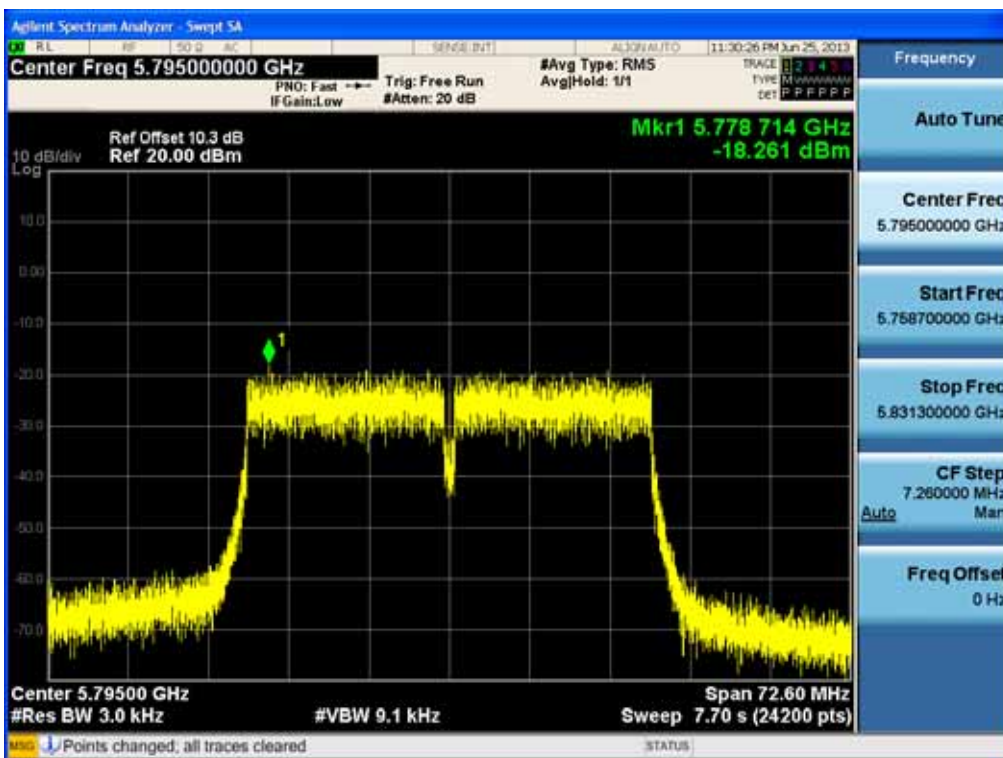


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1306FR24-2	Date of Issue: July 31, 2013	EUT Type: Cellular/PCS GSM/GPRS/WCDMA/HSDPA/HSUPA Phone with Bluetooth, WLAN and NFC(Felica)	FCC ID: ZNFL01F

Power Spectral Density (802.11n-CH 151)



Power Spectral Density (802.11n-CH 159)



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