

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Address:
129, Samsung-ro, Yeongtong-gu Suwon-si,
Gyeonggi-do, 443-742 Rep. of Korea

Date of Issue:

April 18, 2013

Test Site/Location:

HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon,
Icheon-si, Kyunggi-Do, Korea

Report No.: HCTR1304FR18

HCT FRN: 0005866421

FCC ID : A3LGTN7102I

APPLICANT : SAMSUNG Electronics Co., Ltd.

FCC Model(s): GT-N7102i

EUT Type: 850/1900 GSM/GPRS/EDGE and Cellular/PCS WCDMA/HSDPA/HSUPA Phone with Bluetooth v4.0+HS, WLAN 2.4GHz/5GHz, Hotspot and RFID

Max. RF Output Power: Wi-Fi 802.11b (21.00 dBm) / Wi-Fi 802.11g (24.72 dBm) / Wi-Fi 802.11n (2.4 GHz) (23.20 dBm)
/ Wi-Fi 802.11a (5.8 GHz) (18.58 dBm) / Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (18.36 dBm)
/ Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (17.39 dBm)

Frequency Range: 2412 MHz - 2462 MHz (2.4 GHz Band)
5745 MHz - 5825 MHz (5.8 GHz Band)_20 MHz BW,
5755 MHz - 5795 MHz (5.8 GHz Band)_40 MHz BW

Modulation type CCK/DSSS/OFDM

FCC Classification: Digital Transmission System(DTS)

FCC Rule Part(s): Part 15.247

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)



Report prepared by
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Test engineer of RF Team



Approved by
: Chang Seok Choi

Manager of RF Team

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1304FR18	April 18, 2013	- First Approval Report

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1. GENERAL INFORMATION

Applicant: SAMSUNG Electronics Co., Ltd.
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FCC ID: A3LGTN7102I
EUT Type: 850/1900 GSM/GPRS/EDGE and Cellular/PCS WCDMA/HSDPA/HSUPA Phone with Bluetooth v4.0+HS, WLAN 2.4GHz/5GHz, Hotspot and RFID
Model name(s): GT-N7102i
Date(s) of Tests: April 08, 2013 ~ April 17, 2013
Place of Tests: HCT Co., Ltd.
 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, KOREA.
 (IC Recognition No. : 5944A-3)

2. EUT DESCRIPTION

EUT Type	850/1900 GSM/GPRS/EDGE and Cellular/PCS WCDMA/HSDPA/HSUPA Phone with Bluetooth v4.0+HS, WLAN 2.4GHz/5GHz, Hotspot and RFID	
FCC Model Name	GT-N7102i	
Power Supply	DC 3.8 V	
Battery type	Li-ion Battery(Standard)	
Frequency Range	TX: 2412 MHz~2462 MHz, 5745 MHz~5825 MHz_20 MHz, 5755 MHz~5795 MHz_40 MHz RX: 2412 MHz~2462 MHz, 5745 MHz~5825 MHz_20 MHz, 5755 MHz~5795 MHz_40 MHz	
Max. RF Output Power:	Peak	Wi-Fi 802.11b (21.00 dBm) / Wi-Fi 802.11g (24.72 dBm)/ Wi-Fi 802.11n (2.4 GHz) (23.20 dBm) / Wi-Fi 802.11a (5.8 GHz) (18.58 dBm)/ Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (18.36 dBm) / Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (17.39 dBm)
	Average	Wi-Fi 802.11b (16.33 dBm) / Wi-Fi 802.11g (14.50 dBm)/ Wi-Fi 802.11n (2.4 GHz) (12.37 dBm) / Wi-Fi 802.11a (5.8 GHz) (12.01 dBm)/ Wi-Fi 802.11n_20 MHz BW (5.8 GHz) (11.92 dBm) / Wi-Fi 802.11n_40 MHz BW (5.8 GHz) (12.65 dBm)
Modulation Type	DSSS/CCK(802.11b), OFDM(802.11a, 802.11g, 802.11n_20 MHz BW, 802.11n_40 MHz BW)	
Antenna Specification	Manufacturer: Partron Antenna type: FPCB Antenna Peak Gain : 0.06 dBi (2.4 GHz Band), -6.62 dBi (5.8 GHz Band)	

3. TEST METHODOLOGY

FCC KDB 558074 D01 DTS Meas Guidance v02 dated October 04, 2012 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 8.1 to 8.4.(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 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated March 02, 2011 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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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.”

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

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

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7. SUMMARY TEST OF RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
6 dB Bandwidth	§15.247(a)(2)	> 500 kHz	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	RADIATED	PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.5.2		PASS

8. TEST RESULT

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

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 4 in KDB 558074, issued 10/04/2012)

RBW = 1 – 5 % of DTS BW, not to exceed 100 kHz

VBW = 3 * RBW

SPAN = 40 MHz

Detector = Peak

Trace mode = max hold

Sweep = auto couple

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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■ TEST RESULTS

Conducted 6 dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	8.576	0.500	Pass
2437	6	8.586	0.500	Pass
2462	11	9.013	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	15.130	0.500	Pass
2437	6	15.140	0.500	Pass
2462	11	15.150	0.500	Pass

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

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	15.140	0.500	Pass
2437	6	15.150	0.500	Pass
2462	11	15.150	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Frequency [MHz]			
5745	149	14.430	0.500	Pass
5785	157	15.110	0.500	Pass
5825	165	15.050	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n(5.8 GHz Band)

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.110	0.500	Pass
5785	157	15.720	0.500	Pass
5825	165	15.120	0.500	Pass

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

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.150	0.500	Pass
5795	159	35.160	0.500	Pass

■ RESULT PLOTS

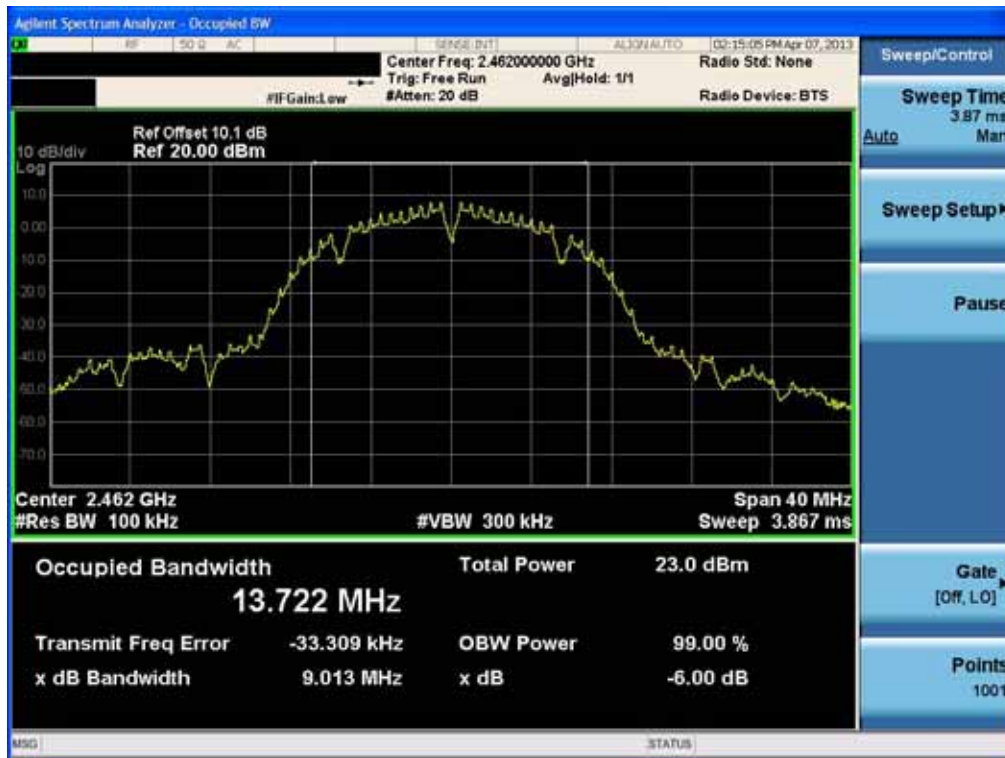
6dB Bandwidth plot (802.11b-CH 1)



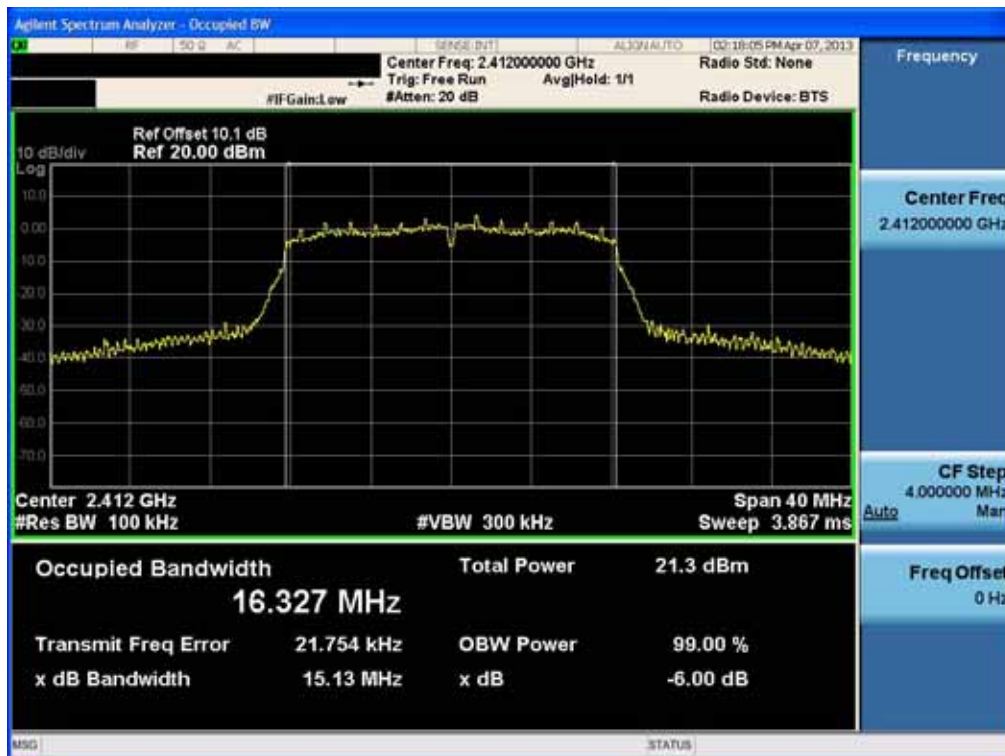
6dB Bandwidth plot (802.11b-CH 6)



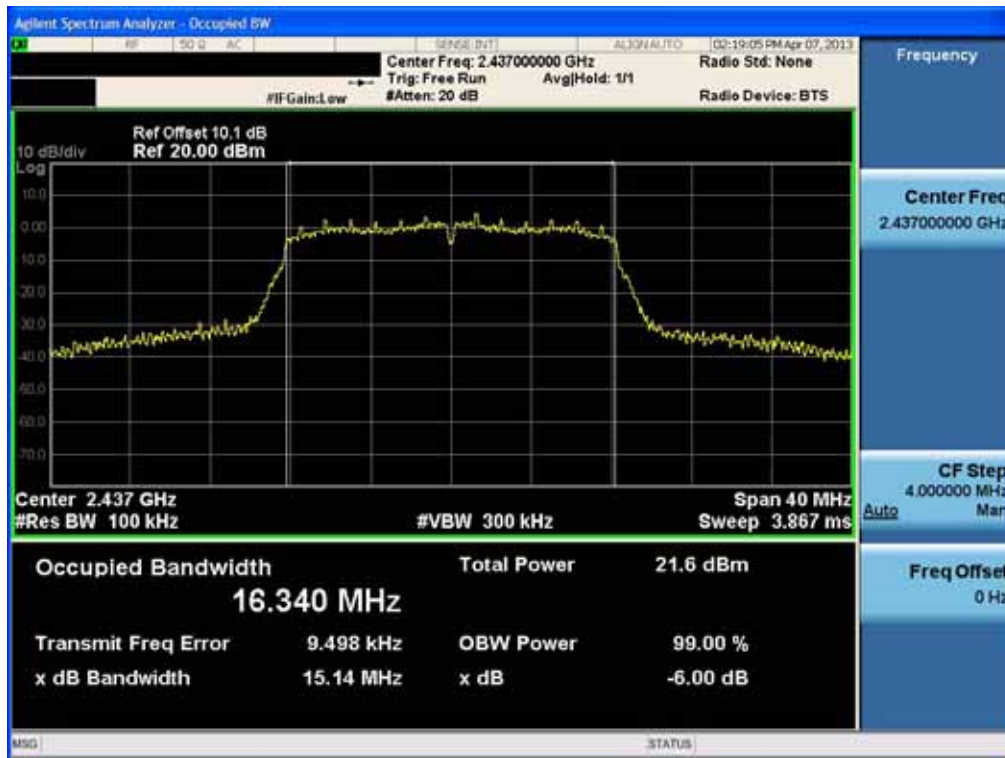
6dB Bandwidth plot (802.11b-CH 11)



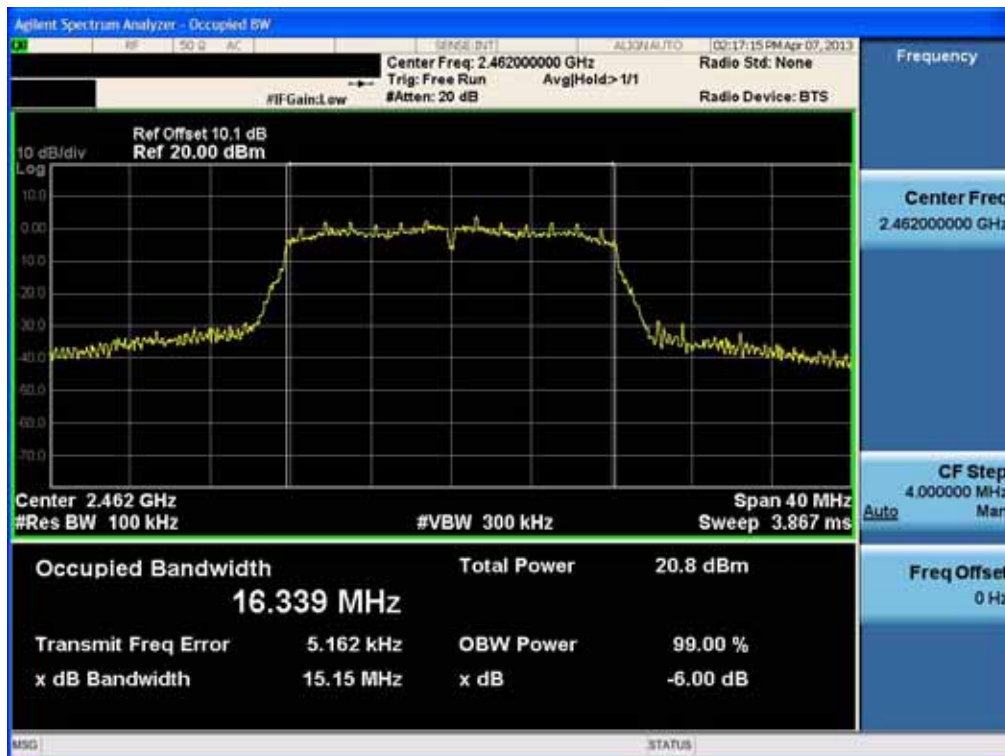
6dB Bandwidth plot (802.11g-CH 1)



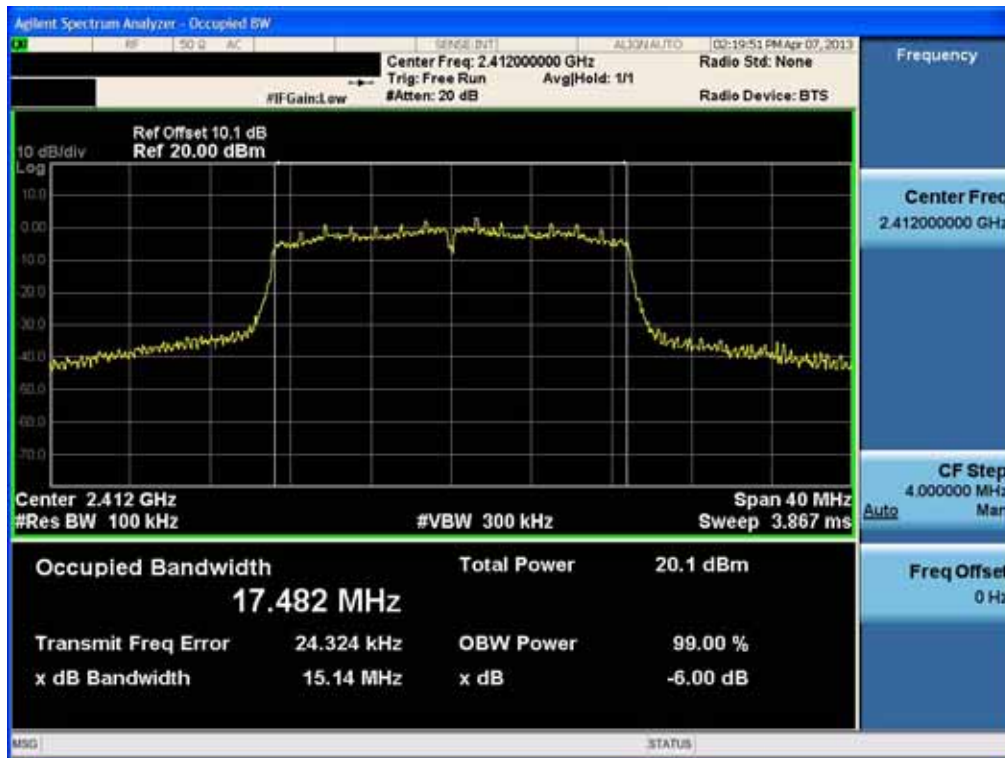
6dB Bandwidth plot (802.11g-CH 6)



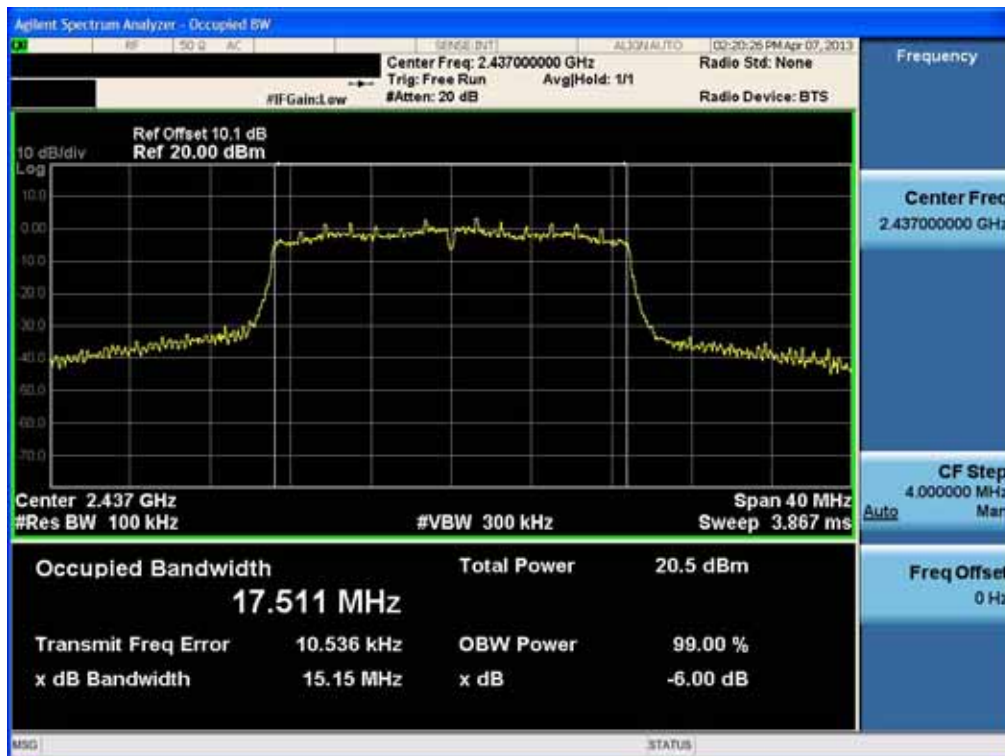
6dB Bandwidth plot (802.11g-CH 11)



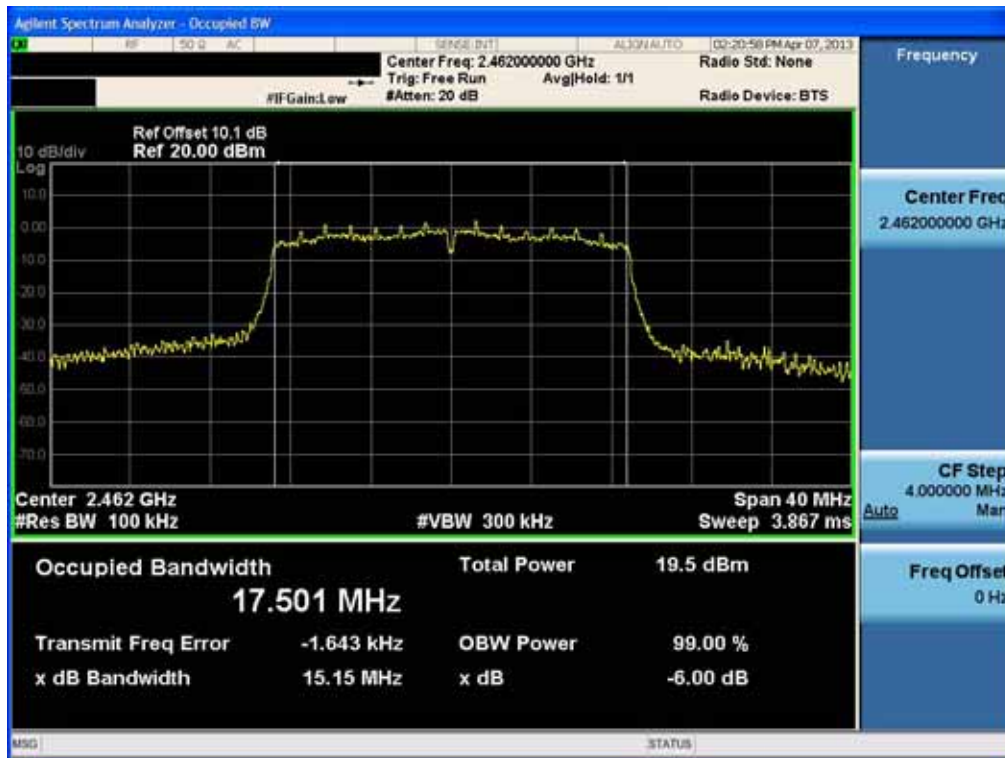
6dB Bandwidth plot (802.11n-CH 1)



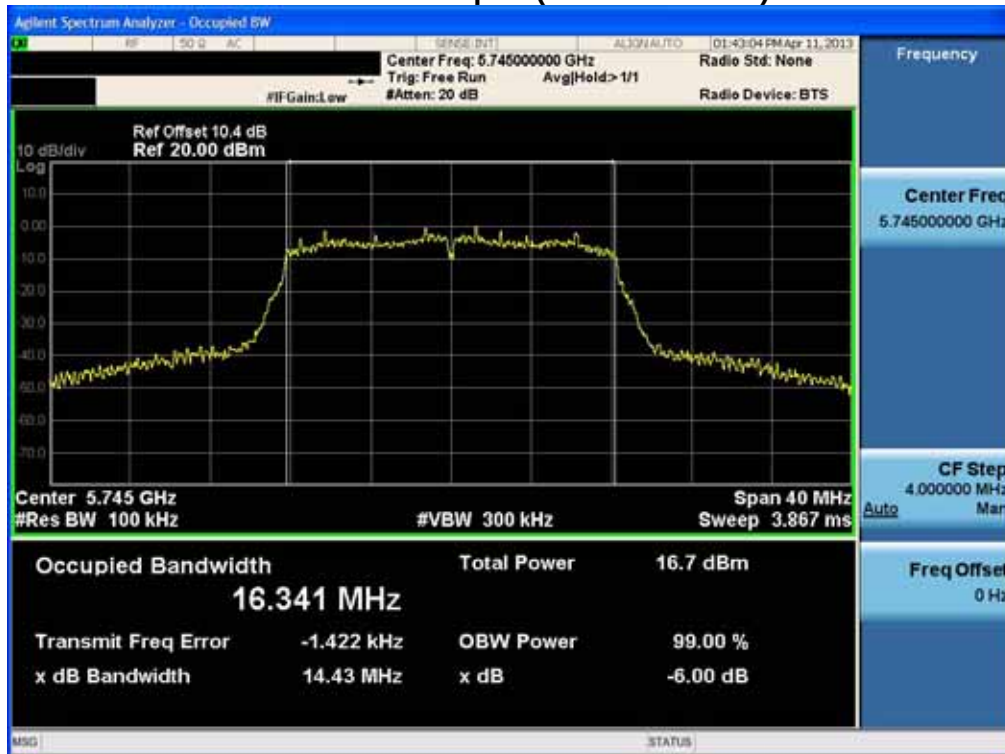
6dB Bandwidth plot (802.11n-CH 6)



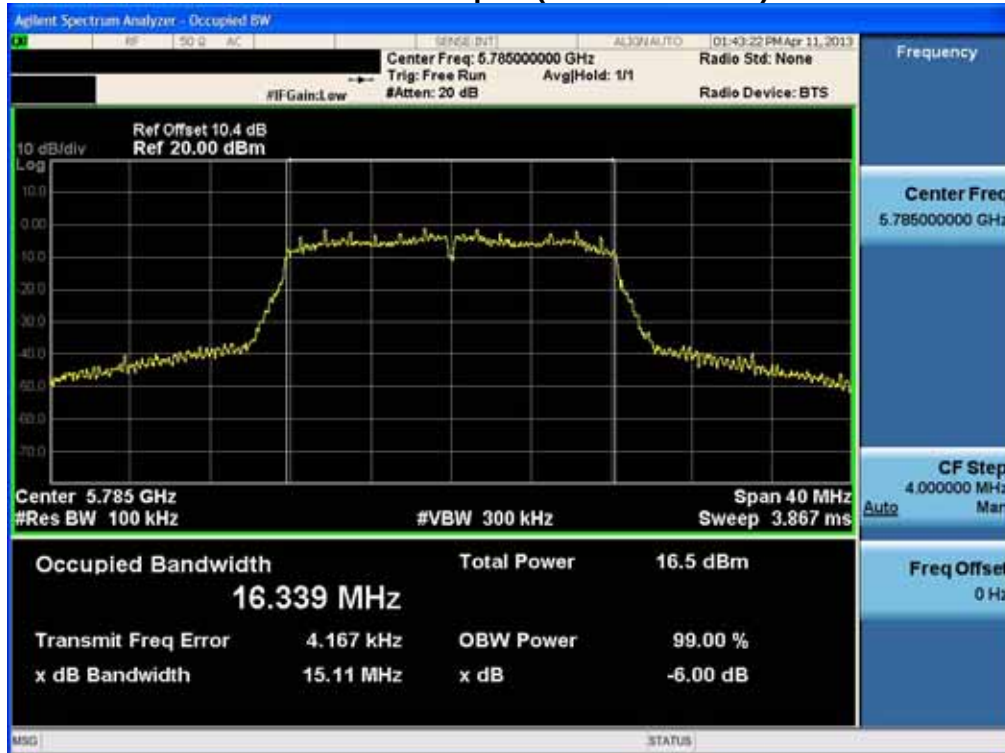
6dB Bandwidth plot (802.11n-CH 11)



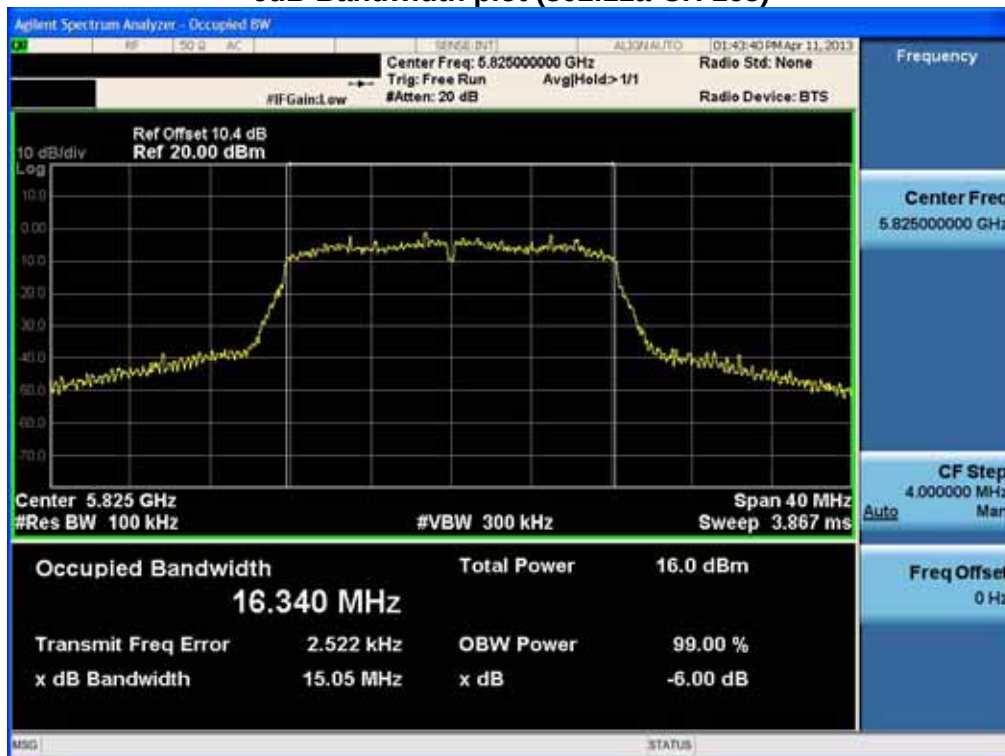
6dB Bandwidth plot (802.11a-CH 149)



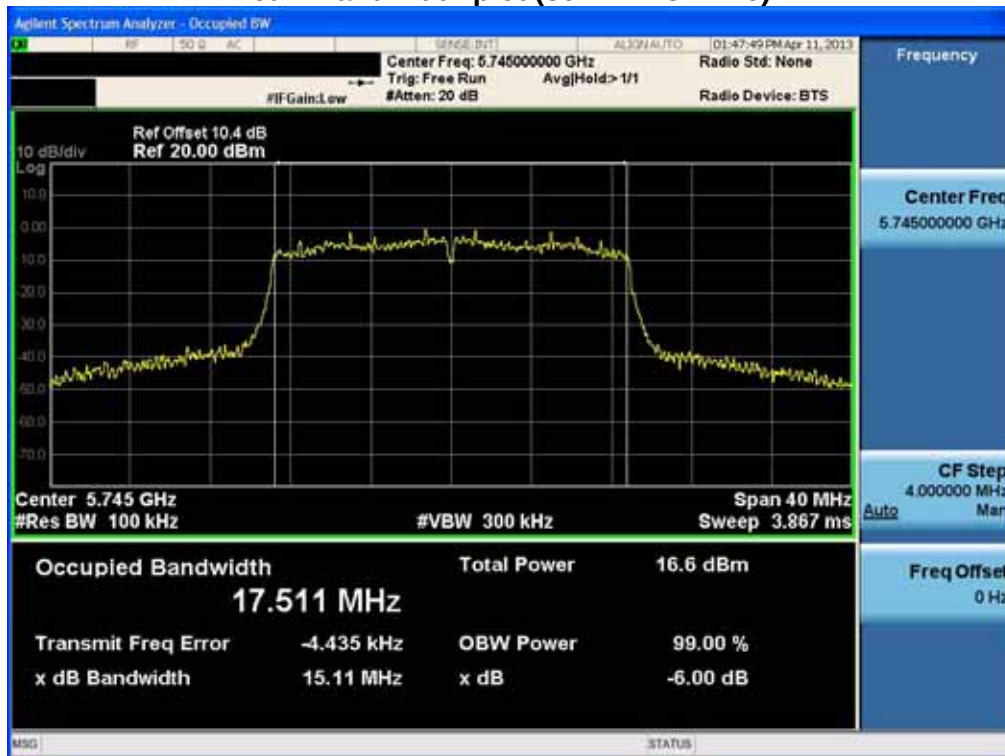
6dB Bandwidth plot (802.11a-CH 157)



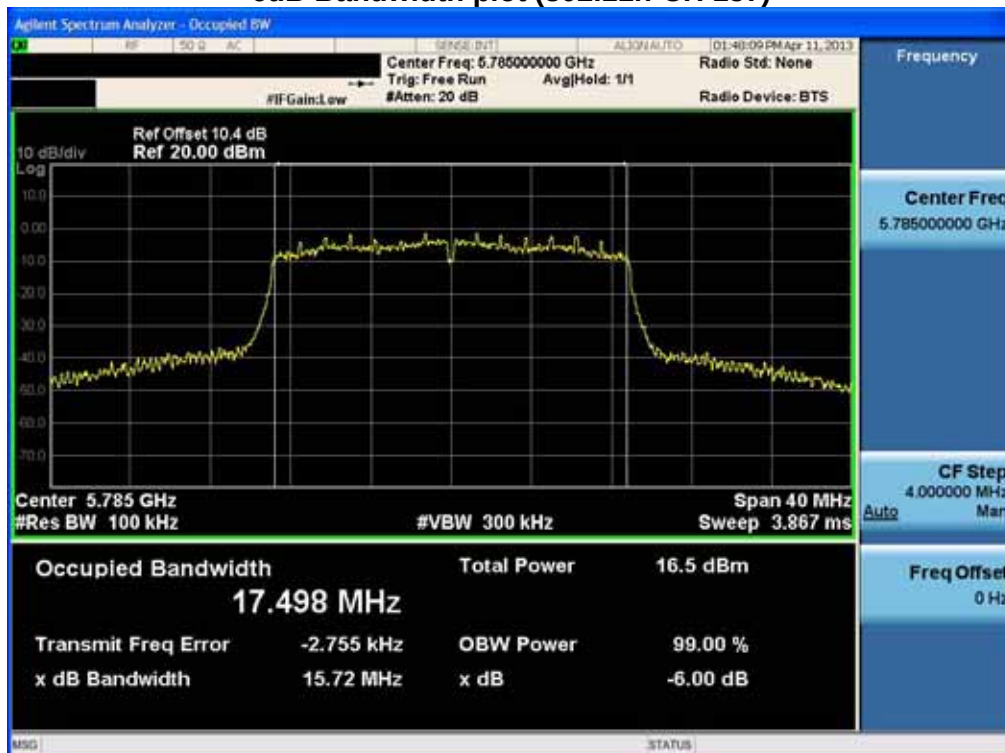
6dB Bandwidth plot (802.11a-CH 165)



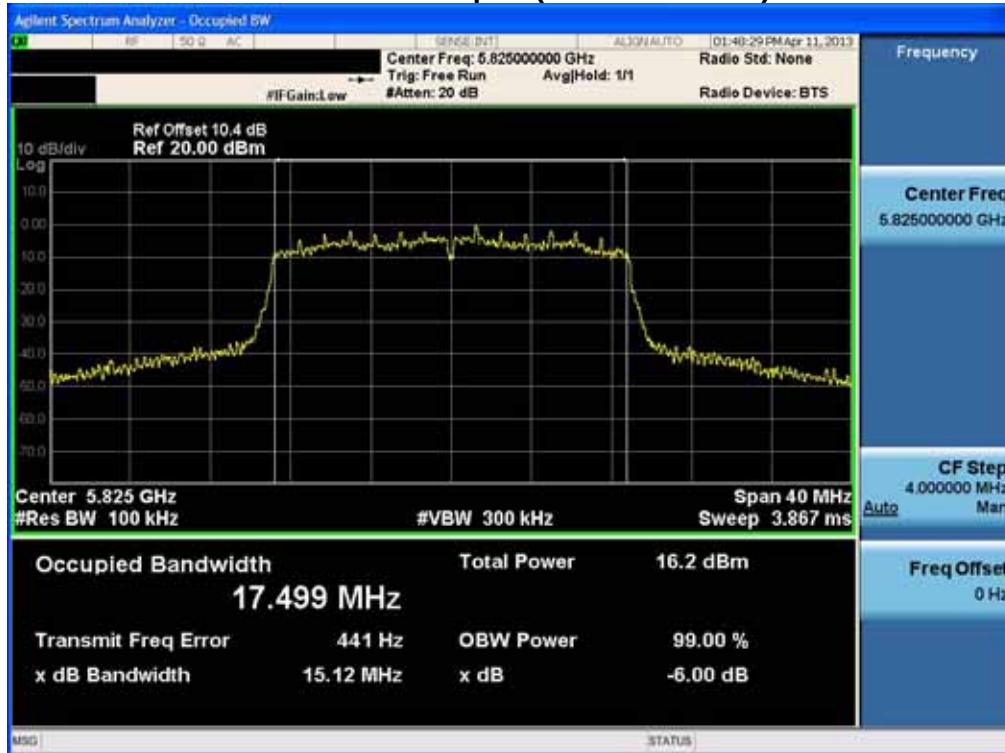
6dB Bandwidth plot (802.11n-CH 149)



6dB Bandwidth plot (802.11n-CH 157)



6dB Bandwidth plot (802.11n-CH 165)

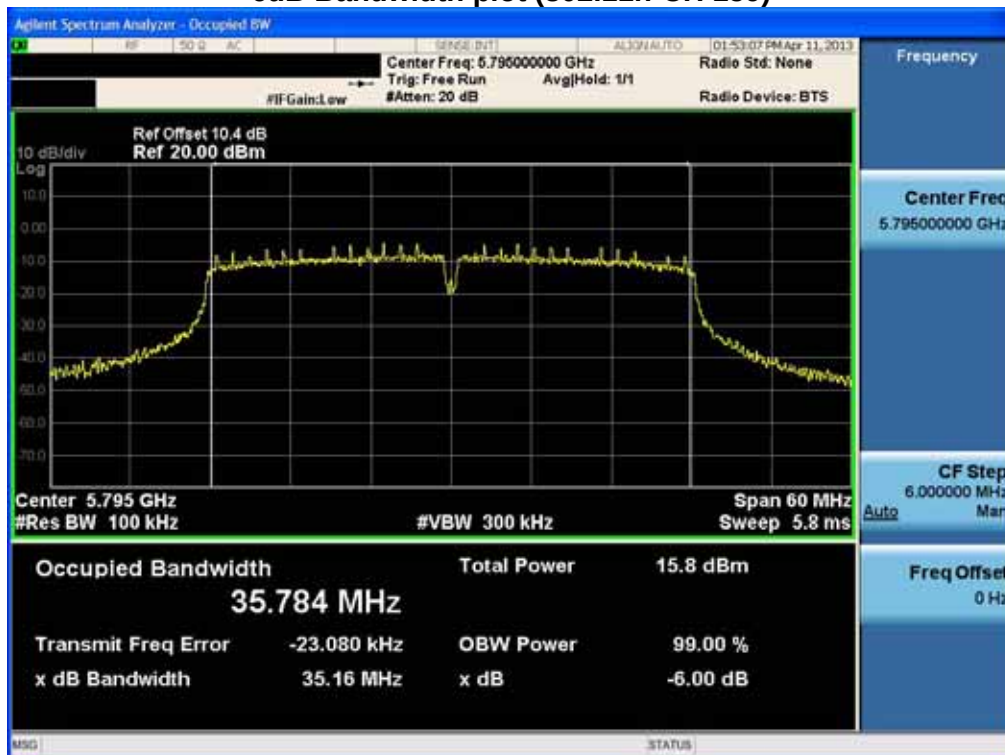


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6dB Bandwidth plot (802.11n-CH 151)



6dB Bandwidth plot (802.11n-CH 159)



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

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

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

The maximum permissible conducted output power is 1 Watt.

■ TEST CONFIGURATION

■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We use the spectrum analyzer's integrated band power measurement function.

The Spectrum Analyzer is set to

- Peak Power (Procedure 8.1.2 Option2 in KDB 558074, issued 10/04/2012)

RBW = Maximum available (at least 1 MHz)

VBW = 3 x RBW or maximum available setting (must be $\geq$ RBW)

SPAN = Set the span to fully encompass the DTS bandwidth

Detector Mode = Peak

Sweep = auto couple

Trace Mode = max hold

Allow trace to fully stabilize.

Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

- Average Power (Procedure 8.2.1 Option1 in KDB 558074, issued 10/04/2012)

RBW = 1 MHz

VBW $\geq$ 3 MHz

SPAN = Set the analyzer span to a minimum of 1.5 times the EBW

Ensure that the number of measurement points in the sweep $\geq$ 2 x span/RBW

Detector Mode = Power average (RMS) or sample detector when RMS not available

Sweep = auto couple

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

Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges.

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■ Sample Calculation

$$\begin{aligned}\text{Output Power} &= \text{Reading Value} + \text{ATT loss} + \text{Cable loss}(1 \text{ ea}) \\ &= 10 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} = 20.8 \text{ dBm}\end{aligned}$$

Note :

1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. So, the offset is 10.1 dB in 2.4 GHz. And the offset gap in the 2.4 GHz range do not affect the conducted output power final result. Actual value of loss for the attenuator and cable combination is below table.

Band	Frequency(MHz)	Loss(dB)
2.4 GHz	2412	10.11
	2437	10.10
	2462	10.12
5.8 GHz	5745	10.37
	5755	10.37
	5785	10.38
	5795	10.38
	5825	10.37

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

■ Duty Cycle Factor

Mode	Data Rate	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor
b	1 Mbps	8.595	8.700	0.98793103	0.053
	2 Mbps	4.300	4.410	0.97505669	0.110
	5.5 Mbps	1.627	1.725	0.94318841	0.254
	11 Mbps	0.860	0.960	0.89583333	0.478
g	6 Mbs	1.420	1.530	0.92810458	0.324
	9 Mbs	0.951	1.059	0.89801700	0.467
	12 Mbs	0.716	0.824	0.86893204	0.610
	18 Mbs	0.483	0.592	0.81601622	0.883
	24 Mbs	0.364	0.471	0.77282378	1.119
	36 Mbs	0.248	0.355	0.69859155	1.558
	48 Mbs	0.188	0.295	0.63728814	1.957
	54 Mbs	0.171	0.279	0.61318052	2.124
802.11n 2.4 GHz Band	6.5 Mbs	1.325	1.434	0.92398884	0.343
	13 Mbs	0.682	0.788	0.86548223	0.627
	19.5 Mbs	0.464	0.572	0.81118881	0.909
	26 Mbs	0.354	0.463	0.76484561	1.164
	39 Mbs	0.246	0.355	0.69295775	1.593
	52 Mbs	0.191	0.300	0.63733333	1.956
	58.5 Mbs	0.175	0.284	0.61690141	2.098
	65 Mbs	0.160	0.269	0.59590317	2.248
802.11n_40 MHz BW 5.8 GHz Band	13.5 Mbps	0.630	0.762	0.82677165	0.826
	27 Mbps	0.321	0.450	0.71333333	1.467
	40.5 Mbps	0.216	0.346	0.62500000	2.041
	54 Mbps	0.162	0.292	0.55616438	2.548
	81 Mbps	0.113	0.242	0.46694215	3.307
	108 Mbps	0.084	0.214	0.39215686	4.065
	121.5 Mbps	0.077	0.206	0.37117904	4.304
	135 Mbps	0.068	0.198	0.34493192	4.623

Note : Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$

where, Duty Cycle = T_{on} / T_{total}

■ TEST RESULTS-Peak

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	19.68	30
		2 Mbps	20.14	30
		5.5 Mbps	20.50	30
		11 Mbps	20.68	30
2437	6	1 Mbps	20.05	30
		2 Mbps	20.47	30
		5.5 Mbps	20.79	30
		11 Mbps	21.00	30
2462	11	1 Mbps	19.19	30
		2 Mbps	19.56	30
		5.5 Mbps	19.91	30
		11 Mbps	20.10	30

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	23.77	30
		9 Mbps	23.82	30
		12 Mbps	23.86	30
		18 Mbps	23.94	30
		24 Mbps	23.99	30
		36 Mbps	24.00	30
		48 Mbps	24.09	30
		54 Mbps	24.16	30
2437	6	6 Mbps	24.28	30
		9 Mbps	24.37	30
		12 Mbps	24.43	30
		18 Mbps	24.48	30
		24 Mbps	24.57	30
		36 Mbps	24.62	30
		48 Mbps	24.66	30
		54 Mbps	24.72	30
2462	11	6 Mbps	23.15	30
		9 Mbps	23.25	30
		12 Mbps	23.32	30
		18 Mbps	23.39	30
		24 Mbps	23.46	30
		36 Mbps	23.50	30
		48 Mbps	23.59	30
		54 Mbps	23.66	30

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	22.20	30
		13 Mbps	22.22	30
		19.5 Mbps	22.27	30
		26 Mbps	22.35	30
		39 Mbps	22.25	30
		52 Mbps	22.19	30
		58.5 Mbps	22.29	30
		65 Mbps	22.40	30
2437	6	6.5 Mbps	22.18	30
		13 Mbps	22.25	30
		19.5 Mbps	22.32	30
		26 Mbps	22.41	30
		39 Mbps	22.48	30
		52 Mbps	22.55	30
		58.5 Mbps	22.59	30
		65 Mbps	23.20	30
2462	11	6.5 Mbps	21.14	30
		13 Mbps	21.30	30
		19.5 Mbps	21.39	30
		26 Mbps	21.56	30
		39 Mbps	21.64	30
		52 Mbps	21.74	30
		58.5 Mbps	21.80	30
		65 Mbps	21.92	30

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

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	18.17	30
		9 Mbps	18.16	30
		12 Mbps	17.88	30
		18 Mbps	17.88	30
		24 Mbps	18.38	30
		36 Mbps	18.35	30
		48 Mbps	18.58	30
		54 Mbps	18.46	30
5785	157	6 Mbps	17.97	30
		9 Mbps	17.92	30
		12 Mbps	17.96	30
		18 Mbps	17.74	30
		24 Mbps	18.09	30
		36 Mbps	18.25	30
		48 Mbps	18.42	30
		54 Mbps	18.18	30
5825	165	6 Mbps	17.76	30
		9 Mbps	17.77	30
		12 Mbps	17.63	30
		18 Mbps	17.56	30
		24 Mbps	18.12	30
		36 Mbps	17.96	30
		48 Mbps	18.22	30
		54 Mbps	18.15	30

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

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	18.09	30
		13 Mbps	17.80	30
		19.5 Mbps	17.78	30
		26 Mbps	18.27	30
		39 Mbps	18.34	30
		52 Mbps	17.97	30
		58.5 Mbps	18.33	30
		65 Mbps	18.36	30
5785	157	6.5 Mbps	17.71	30
		13 Mbps	17.56	30
		19.5 Mbps	17.60	30
		26 Mbps	18.06	30
		39 Mbps	18.11	30
		52 Mbps	18.14	30
		58.5 Mbps	18.17	30
		65 Mbps	18.21	30
5825	165	6.5 Mbps	17.61	30
		13 Mbps	17.48	30
		19.5 Mbps	17.56	30
		26 Mbps	18.07	30
		39 Mbps	18.12	30
		52 Mbps	18.14	30
		58.5 Mbps	18.06	30
		65 Mbps	17.99	30

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

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	17.04	30
		27 Mbps	17.08	30
		40.5 Mbps	17.05	30
		54 Mbps	17.30	30
		81 Mbps	17.33	30
		108 Mbps	17.39	30
		121.5 Mbps	17.38	30
		135 Mbps	17.37	30
5795	159	13.5 Mbps	16.85	30
		27 Mbps	16.91	30
		40.5 Mbps	16.92	30
		54 Mbps	17.19	30
		81 Mbps	17.21	30
		108 Mbps	17.25	30
		121.5 Mbps	17.23	30
		135 Mbps	17.26	30

■ TEST RESULTS-Average

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	1 Mbps	15.92	0.05	15.97	30
		2 Mbps	15.69	0.11	15.80	30
		5.5 Mbps	15.47	0.25	15.72	30
		11 Mbps	15.34	0.48	15.82	30
2437	6	1 Mbps	16.28	0.05	16.33	30
		2 Mbps	16.01	0.11	16.12	30
		5.5 Mbps	15.83	0.25	16.08	30
		11 Mbps	15.71	0.48	16.19	30
2462	11	1 Mbps	15.22	0.05	15.27	30
		2 Mbps	15.20	0.11	15.31	30
		5.5 Mbps	14.98	0.25	15.23	30
		11 Mbps	14.66	0.48	15.14	30

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6 Mbps	13.66	0.32	13.98	30
		9 Mbps	13.47	0.47	13.94	30
		12 Mbps	13.36	0.61	13.97	30
		18 Mbps	13.08	0.88	13.96	30
		24 Mbps	12.86	1.12	13.98	30
		36 Mbps	12.46	1.56	14.02	30
		48 Mbps	12.10	1.96	14.06	30
		54 Mbps	11.98	2.12	14.10	30
2437	6	6 Mbps	14.04	0.32	14.36	30
		9 Mbps	13.91	0.47	14.38	30
		12 Mbps	13.78	0.61	14.39	30
		18 Mbps	13.58	0.88	14.46	30
		24 Mbps	13.30	1.12	14.42	30
		36 Mbps	12.94	1.56	14.50	30
		48 Mbps	12.49	1.96	14.45	30
		54 Mbps	12.36	2.12	14.48	30
2462	11	6 Mbps	13.15	0.32	13.47	30
		9 Mbps	13.00	0.47	13.47	30
		12 Mbps	12.91	0.61	13.52	30
		18 Mbps	12.69	0.88	13.57	30
		24 Mbps	12.37	1.12	13.49	30
		36 Mbps	12.02	1.56	13.58	30
		48 Mbps	11.72	1.96	13.68	30
		54 Mbps	11.60	2.12	13.72	30

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6.5 Mbps	11.53	0.34	11.87	30
		13 Mbps	11.22	0.63	11.85	30
		19.5 Mbps	11.01	0.91	11.92	30
		26 Mbps	10.75	1.16	11.91	30
		39 Mbps	10.45	1.59	12.04	30
		52 Mbps	10.06	1.96	12.02	30
		58.5 Mbps	9.94	2.10	12.04	30
		65 Mbps	9.79	2.25	12.04	30
2437	6	6.5 Mbps	11.83	0.34	12.17	30
		13 Mbps	11.57	0.63	12.20	30
		19.5 Mbps	11.30	0.91	12.21	30
		26 Mbps	11.09	1.16	12.25	30
		39 Mbps	10.73	1.59	12.32	30
		52 Mbps	10.37	1.96	12.33	30
		58.5 Mbps	10.23	2.10	12.33	30
		65 Mbps	10.12	2.25	12.37	30
2462	11	6.5 Mbps	10.94	0.34	11.28	30
		13 Mbps	10.63	0.63	11.26	30
		19.5 Mbps	10.50	0.91	11.41	30
		26 Mbps	10.25	1.16	11.41	30
		39 Mbps	9.89	1.59	11.48	30
		52 Mbps	9.57	1.96	11.53	30
		58.5 Mbps	9.46	2.10	11.56	30
		65 Mbps	9.28	2.25	11.53	30

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

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6 Mbps	11.43	0.32	11.75	30
		9 Mbps	11.21	0.47	11.67	30
		12 Mbps	11.19	0.61	11.80	30
		18 Mbps	10.93	0.88	11.81	30
		24 Mbps	10.64	1.12	11.76	30
		36 Mbps	10.33	1.56	11.89	30
		48 Mbps	10.00	1.96	11.95	30
		54 Mbps	9.89	2.12	12.01	30
5785	157	6 Mbps	11.41	0.32	11.74	30
		9 Mbps	11.25	0.47	11.72	30
		12 Mbps	11.24	0.61	11.85	30
		18 Mbps	10.95	0.88	11.83	30
		24 Mbps	10.68	1.12	11.79	30
		36 Mbps	10.29	1.56	11.84	30
		48 Mbps	10.00	1.96	11.96	30
		54 Mbps	9.79	2.12	11.91	30
5825	165	6 Mbps	11.34	0.32	11.66	30
		9 Mbps	11.30	0.47	11.76	30
		12 Mbps	10.98	0.61	11.59	30
		18 Mbps	10.92	0.88	11.81	30
		24 Mbps	10.58	1.12	11.70	30
		36 Mbps	10.31	1.56	11.87	30
		48 Mbps	9.86	1.96	11.82	30
		54 Mbps	9.77	2.12	11.89	30

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

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6.5 Mbps	11.22	0.34	11.56	30
		13 Mbps	11.04	0.63	11.67	30
		19.5 Mbps	10.71	0.91	11.61	30
		26 Mbps	10.55	1.16	11.71	30
		39 Mbps	10.24	1.59	11.83	30
		52 Mbps	9.90	1.96	11.85	30
		58.5 Mbps	9.73	2.10	11.83	30
		65 Mbps	9.61	2.25	11.86	30
5785	157	6.5 Mbps	11.28	0.34	11.62	30
		13 Mbps	11.01	0.63	11.64	30
		19.5 Mbps	10.81	0.91	11.72	30
		26 Mbps	10.59	1.16	11.76	30
		39 Mbps	10.26	1.59	11.86	30
		52 Mbps	9.93	1.96	11.89	30
		58.5 Mbps	9.77	2.10	11.86	30
		65 Mbps	9.67	2.25	11.92	30
5825	165	6.5 Mbps	11.14	0.34	11.48	30
		13 Mbps	10.95	0.63	11.58	30
		19.5 Mbps	10.74	0.91	11.65	30
		26 Mbps	10.55	1.16	11.72	30
		39 Mbps	10.22	1.59	11.82	30
		52 Mbps	9.87	1.96	11.83	30
		58.5 Mbps	9.75	2.10	11.85	30
		65 Mbps	9.67	2.25	11.92	30

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

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	13.5 Mbps	10.37	0.83	11.20	30
		27 Mbps	9.86	1.47	11.33	30
		40.5 Mbps	9.51	2.04	11.55	30
		54 Mbps	9.22	2.55	11.77	30
		81 Mbps	8.66	3.31	11.96	30
		108 Mbps	8.23	4.07	12.30	30
		121.5 Mbps	8.21	4.30	12.52	30
		135 Mbps	7.85	4.62	12.48	30
5795	159	13.5 Mbps	10.25	0.83	11.08	30
		27 Mbps	9.84	1.47	11.31	30
		40.5 Mbps	9.50	2.04	11.54	30
		54 Mbps	9.18	2.55	11.73	30
		81 Mbps	8.62	3.31	11.93	30
		108 Mbps	8.28	4.07	12.34	30
		121.5 Mbps	8.14	4.30	12.45	30
		135 Mbps	8.03	4.62	12.65	30

RESULT PLOTS-Peak

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



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



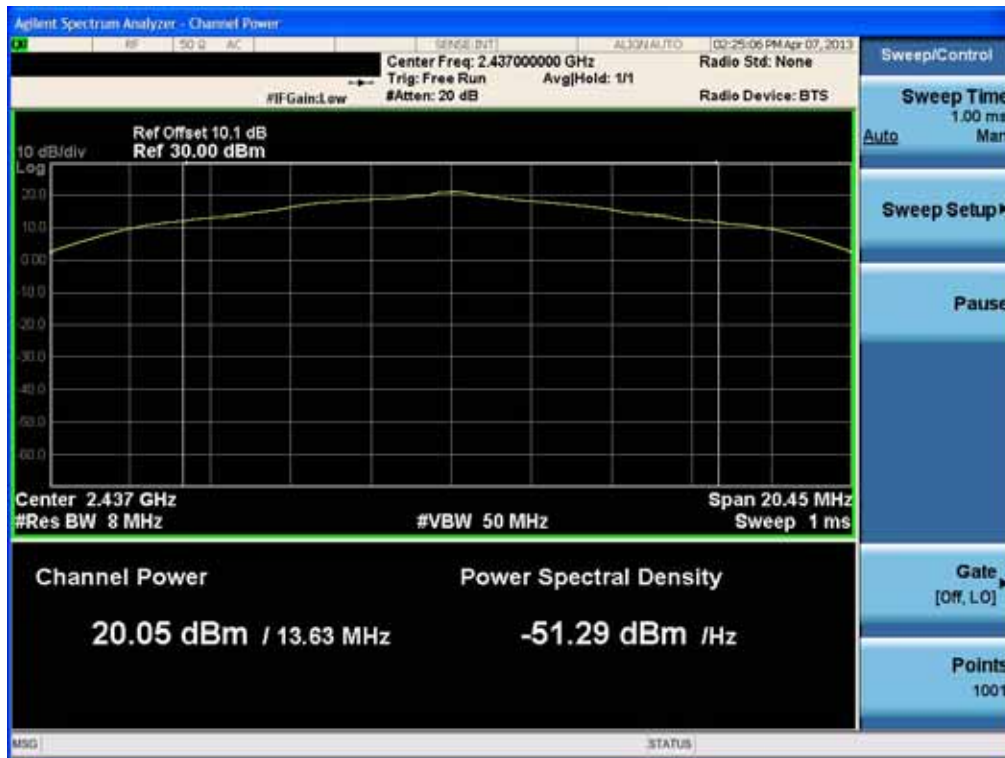
Conducted Output Power (802.11b-CH 1) 5.5Mbps



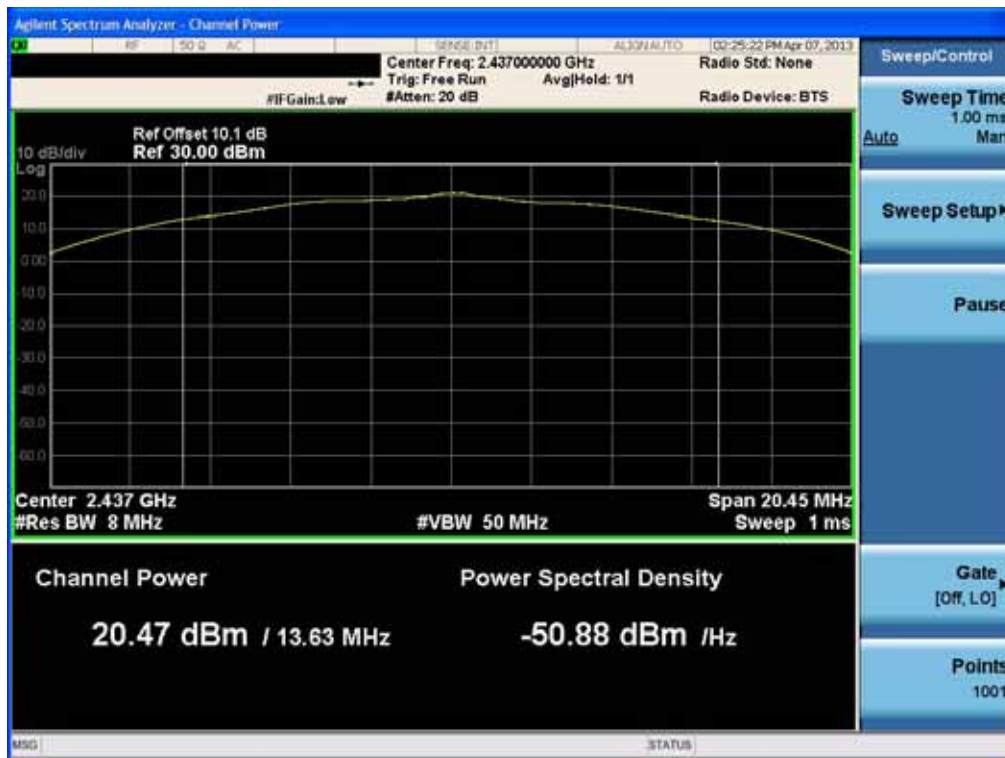
Conducted Output Power (802.11b-CH 1) 11Mbps



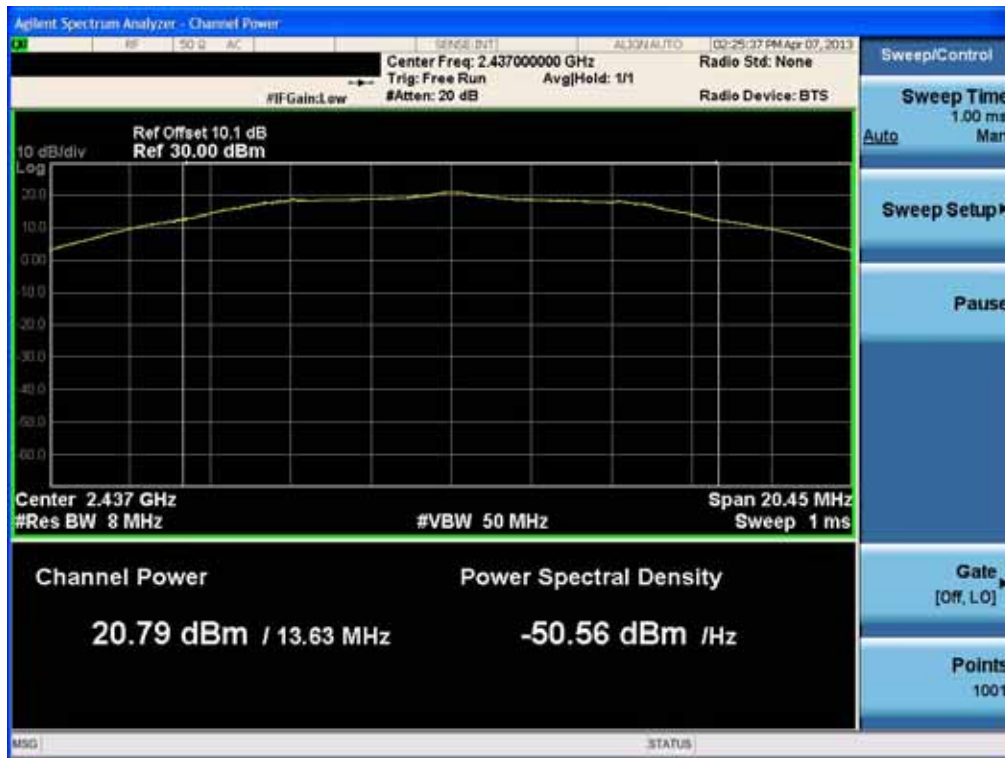
Conducted Output Power (802.11b-CH 6) 1Mbps



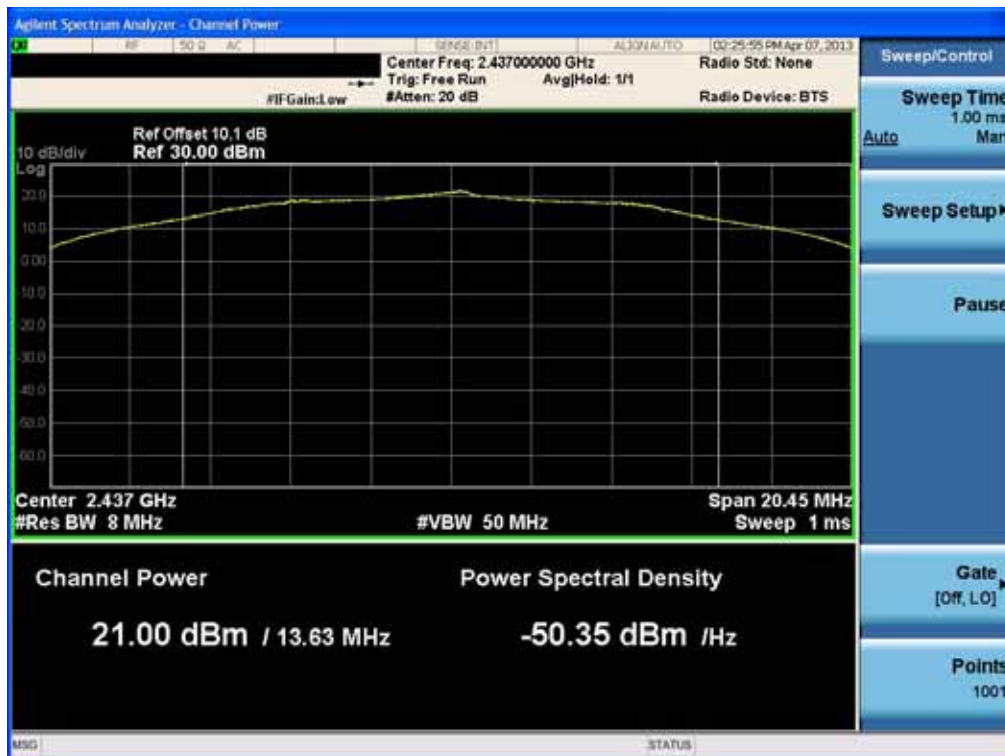
Conducted Output Power (802.11b-CH 6) 2Mbps



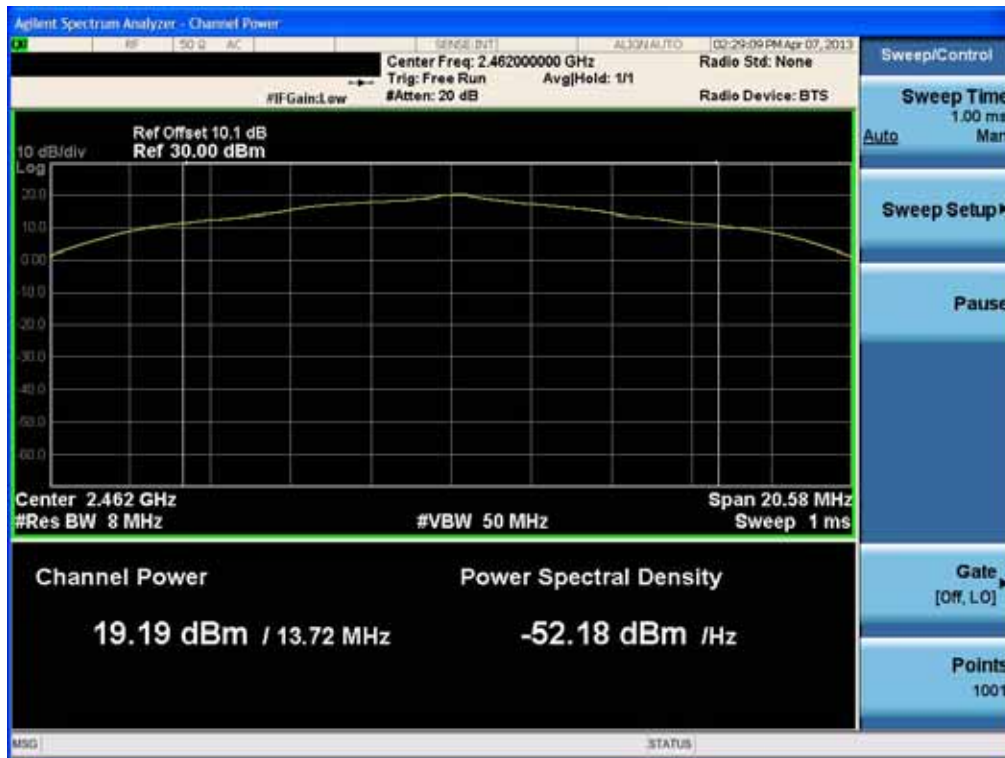
Conducted Output Power (802.11b-CH 6) 5.5Mbps



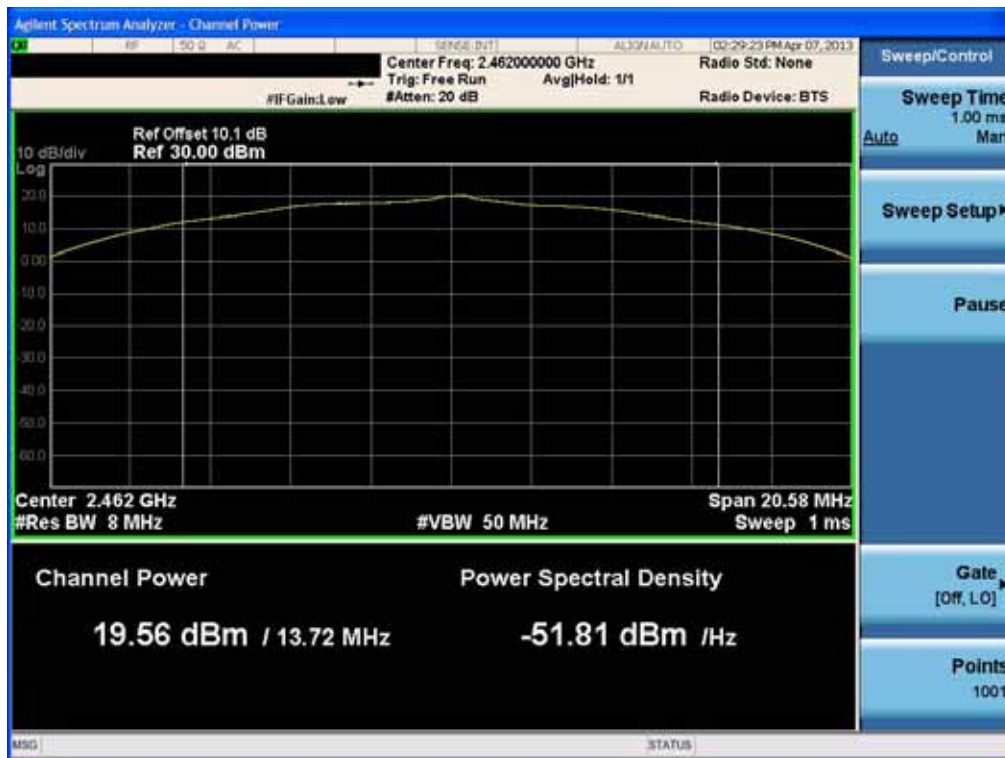
Conducted Output Power (802.11b-CH 6) 11Mbps



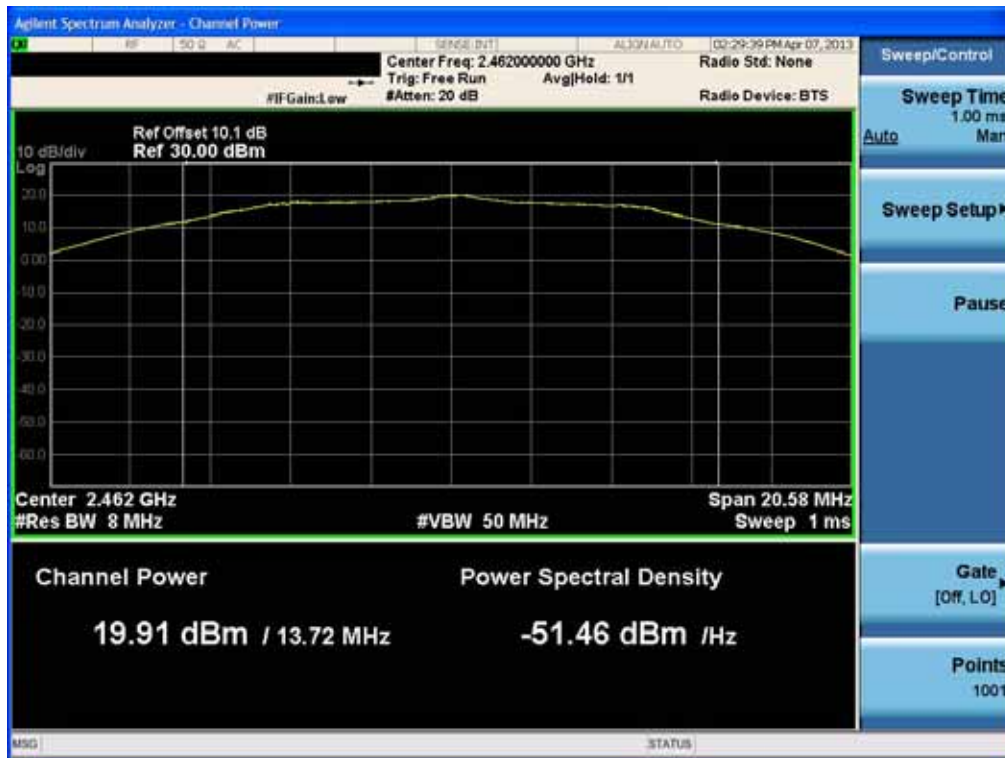
Conducted Output Power (802.11b-CH 11) 1Mbps



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



Conducted Output Power (802.11g-CH 6) 24Mbps



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



Conducted Output Power (802.11g-CH 6) 48Mbps



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



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



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



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



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



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



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



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



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



Conducted Output Power (802.11n-CH 1) 6.5Mbps



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



Conducted Output Power (802.11n-CH 1) 19.5Mbps



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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

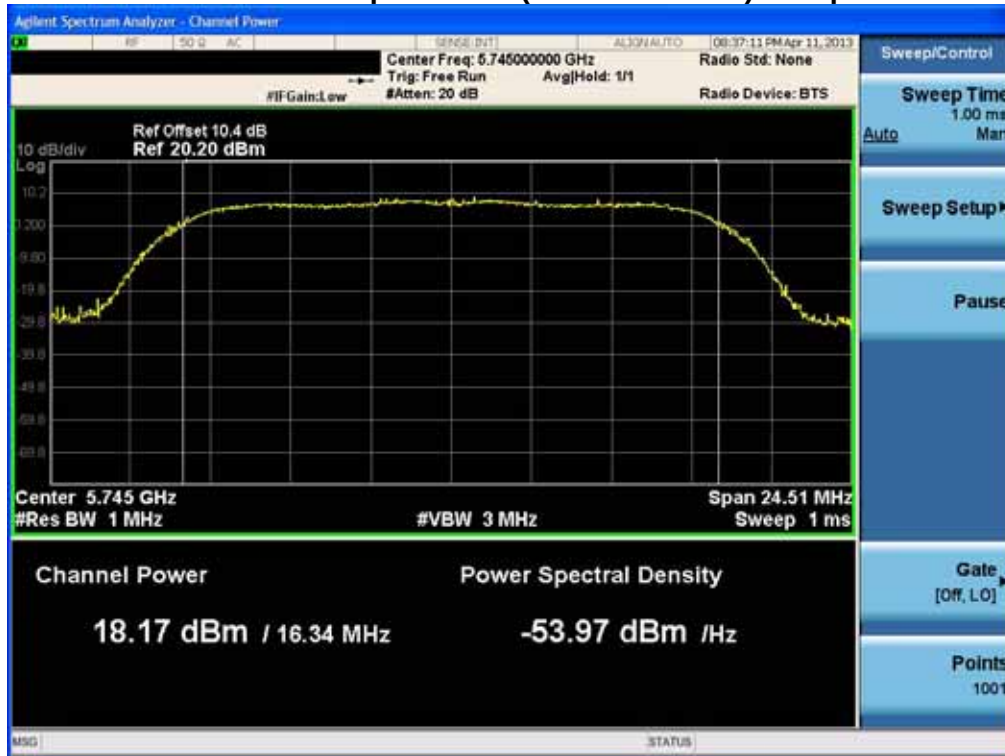


Conducted Output Power (802.11n-CH 11) 65Mbps



(5745 MHz ~5825 MHz)

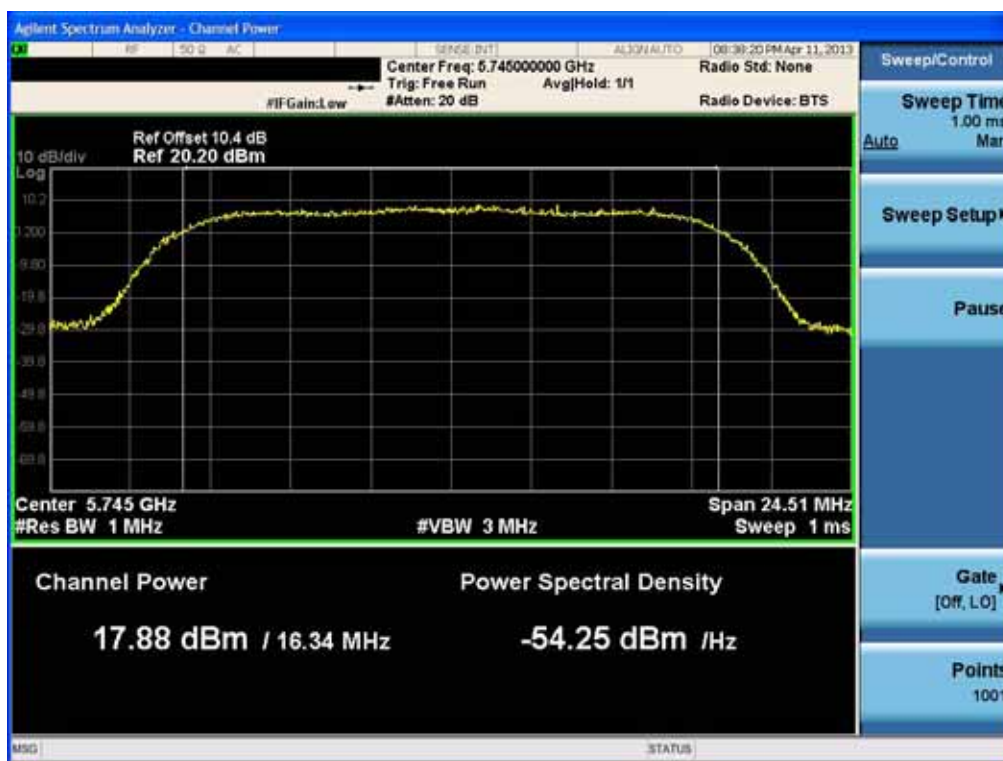
Conducted Output Power (802.11a-CH 149) 6 Mbps



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



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



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



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



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



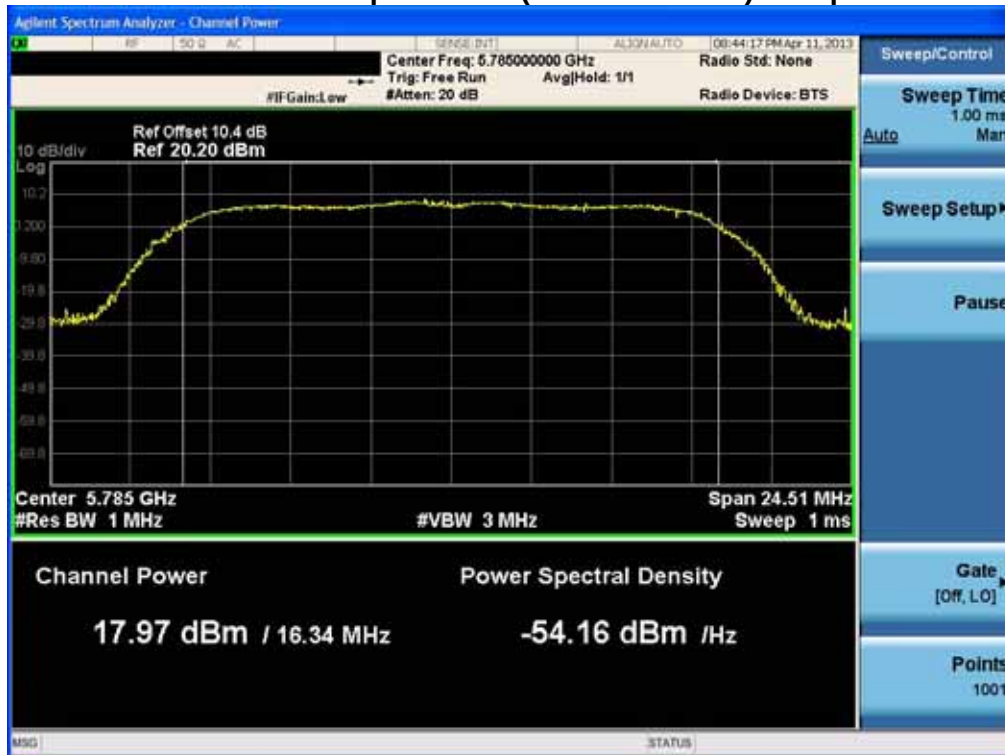
Conducted Output Power (802.11a-CH 149) 48 Mbps



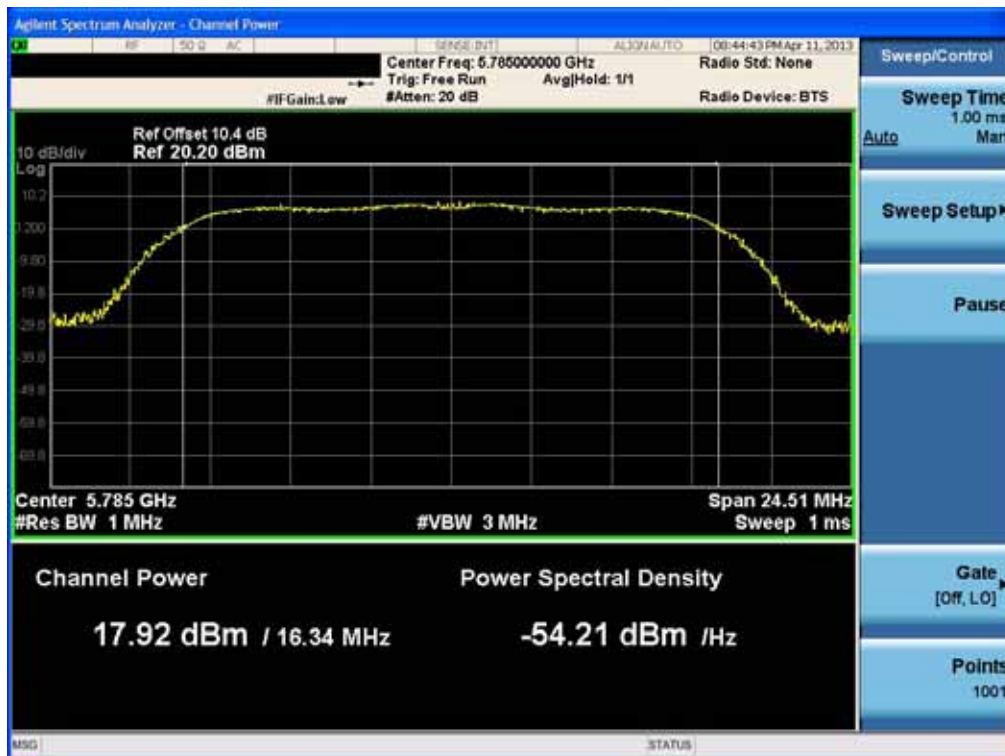
Conducted Output Power (802.11a-CH 149) 54 Mbps



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



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



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



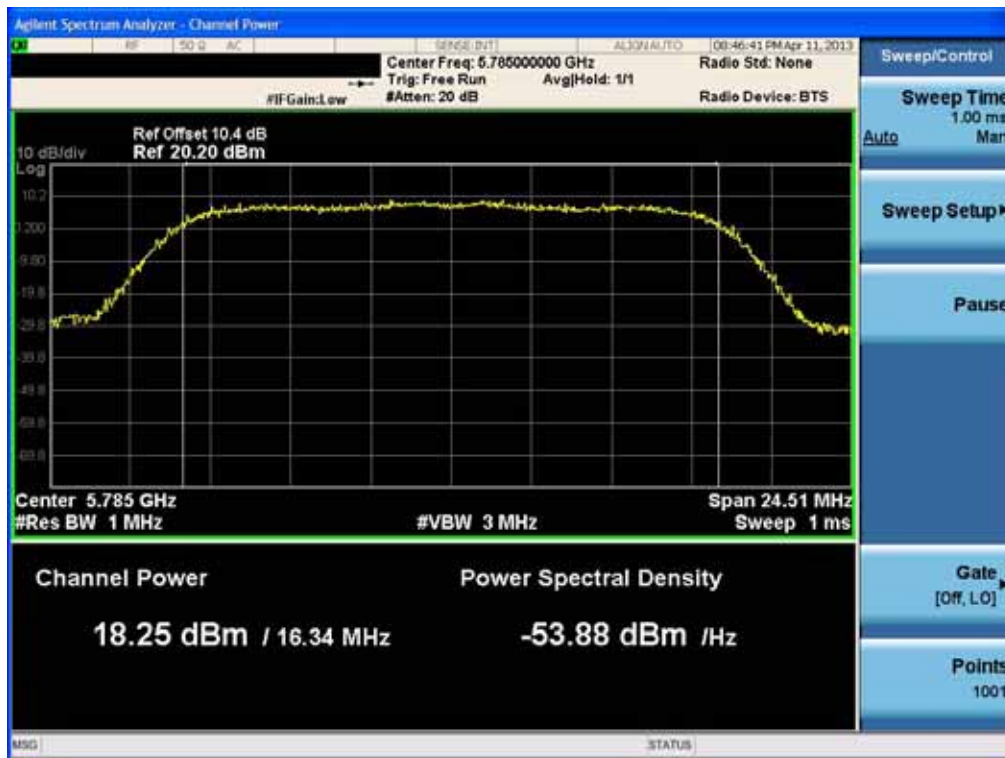
Conducted Output Power (802.11a-CH 157) 18 Mbps



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



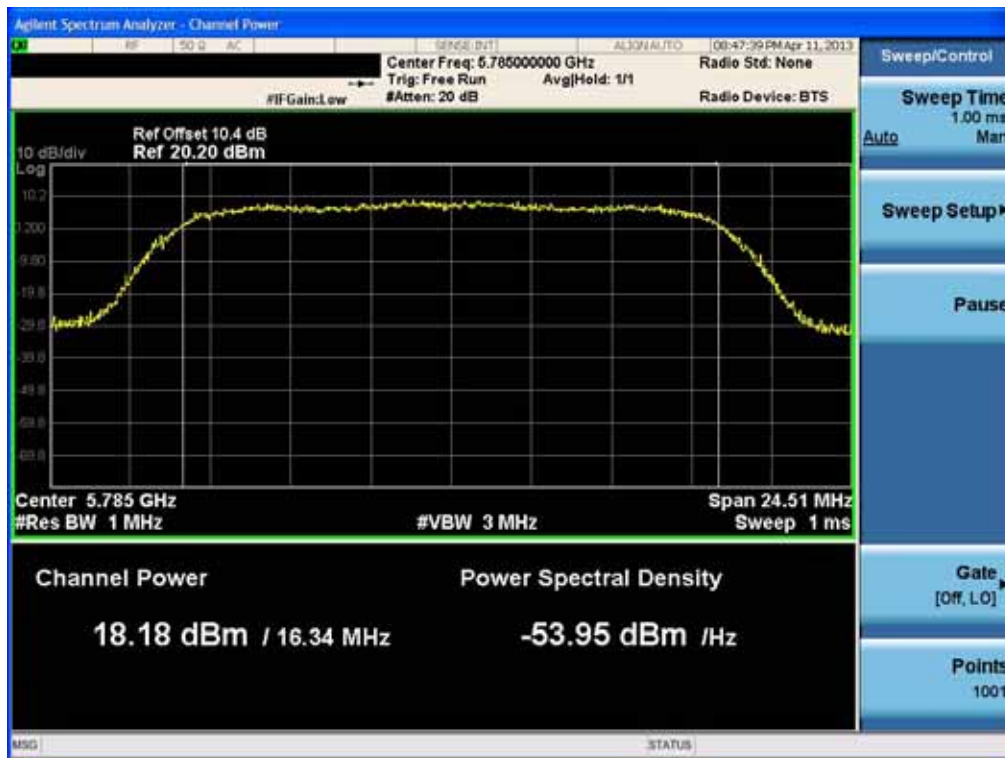
Conducted Output Power (802.11a-CH 157) 36 Mbps



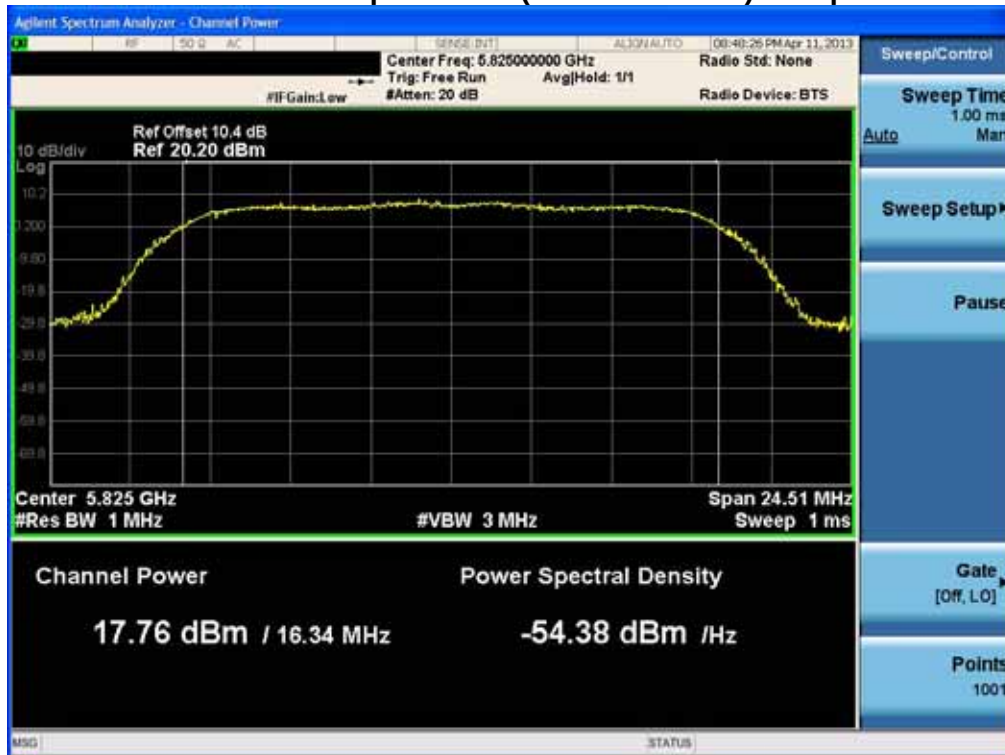
Conducted Output Power (802.11a-CH 157) 48 Mbps



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



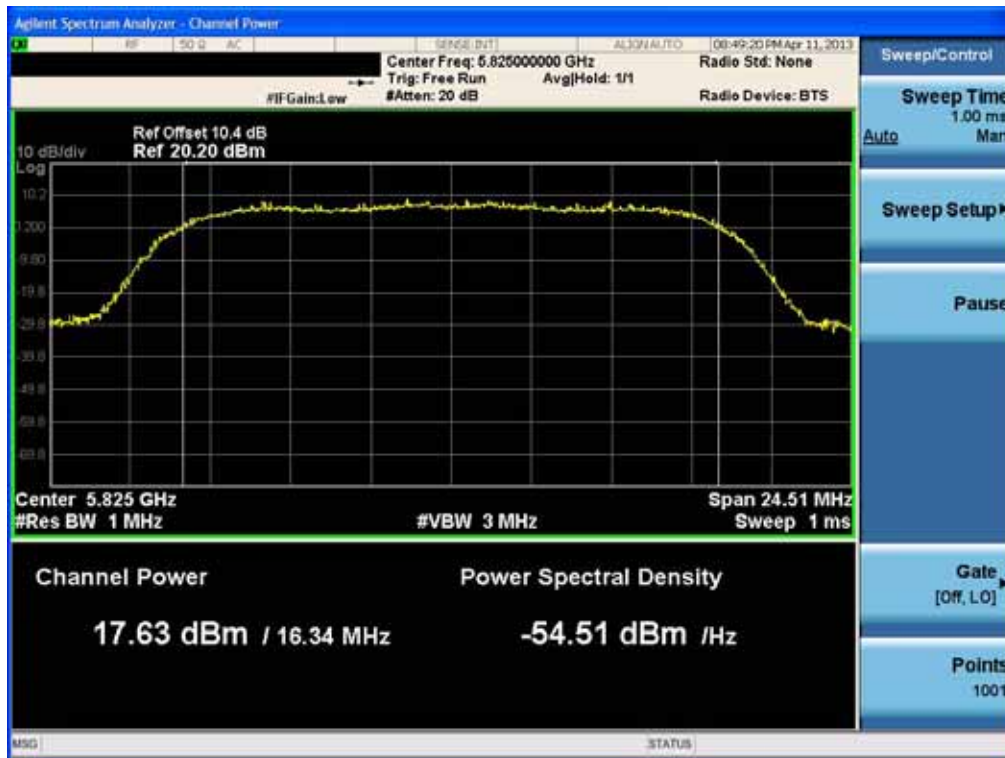
Conducted Output Power (802.11a-CH 165) 6 Mbps



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



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



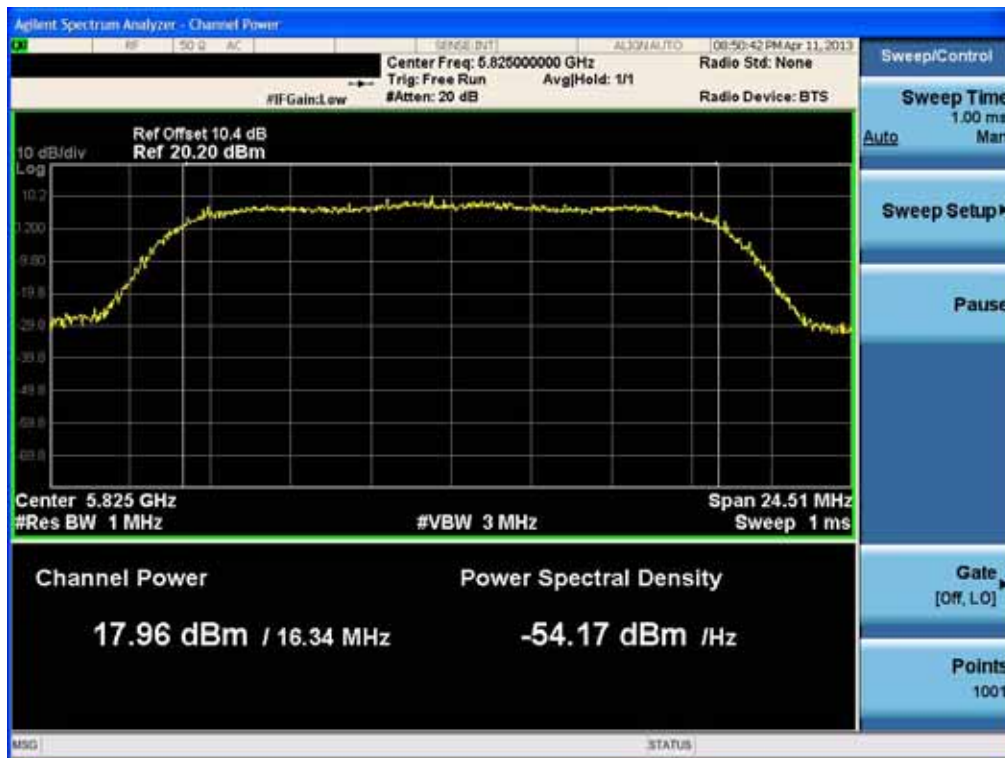
Conducted Output Power (802.11a-CH 165) 18 Mbps



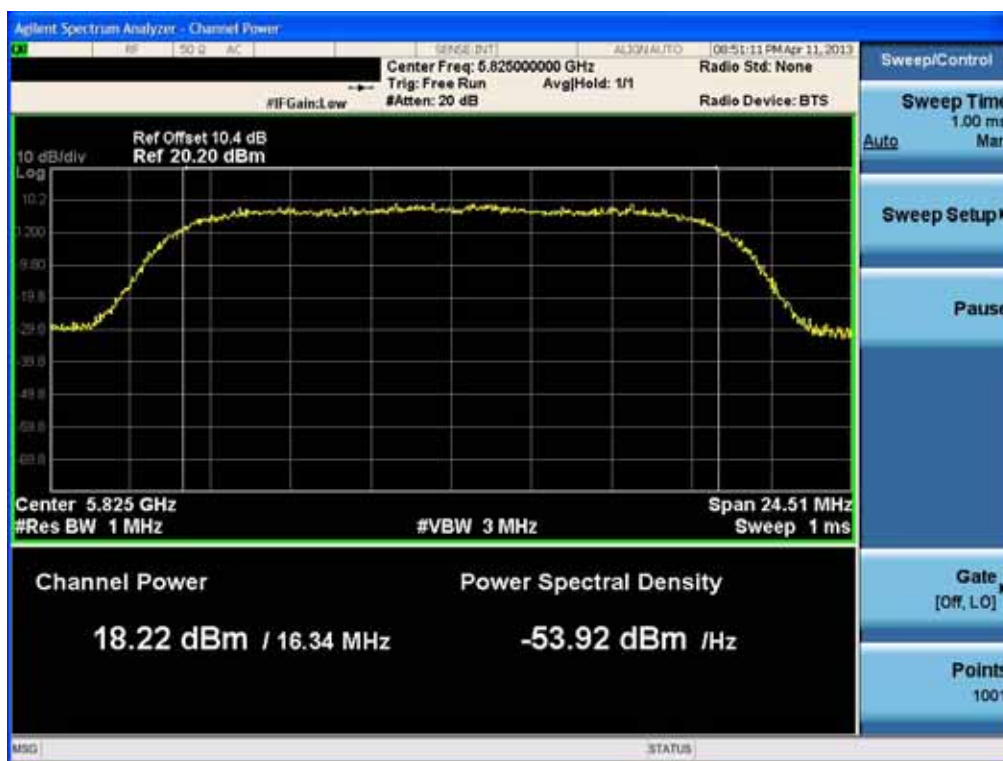
Conducted Output Power (802.11a-CH 165) 24 Mbps



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



20 MHz BW

(5745 MHz ~5825 MHz)

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



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



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1304FR18	Date of Issue: April 18, 2013	EUT Type: 850/1900 GSM/GPRS/EDGE and Cellular/PCS WCDMA/HSDPA/HSUPA Phone with Bluetooth v4.0+HS, WLAN 2.4GHz/5GHz, Hotspot and RFID		FCC ID: A3LGTN71021

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



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



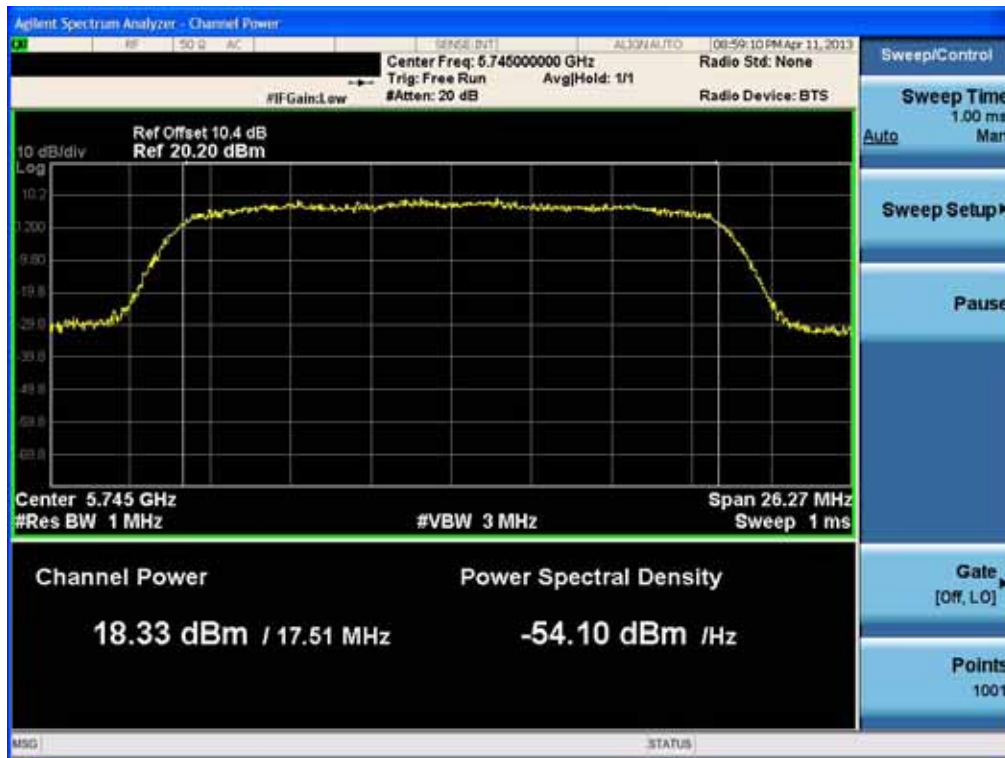
Conducted Output Power (802.11n-CH 149) 39 Mbps



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



Conducted Output Power (802.11n-CH 165) 39 Mbps



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



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



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



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



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



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



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



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



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



Conducted Output Power (802.11n-CH 159) 27 Mbps



Conducted Output Power (802.11n-CH 159) 40.5 Mbps



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



Conducted Output Power (802.11n-CH 159) 81 Mbps



Conducted Output Power (802.11n-CH 159) 108 Mbps



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



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



■ RESULT PLOTS-Average

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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



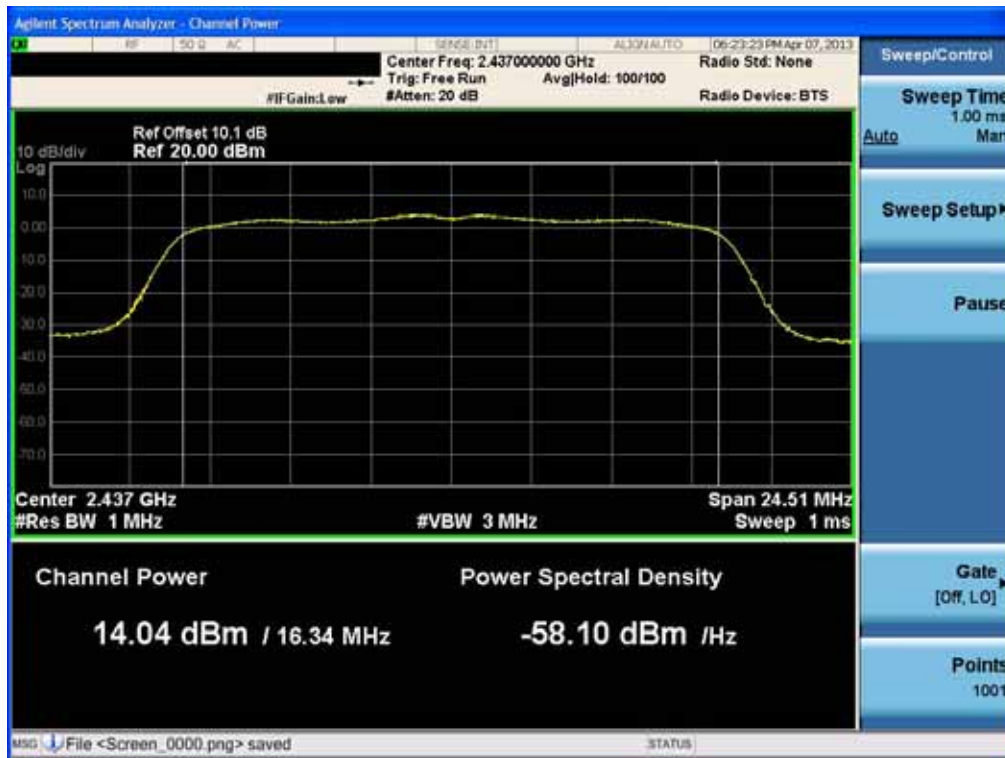
Conducted Output Power (802.11g-CH 1) 48Mbps



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



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



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



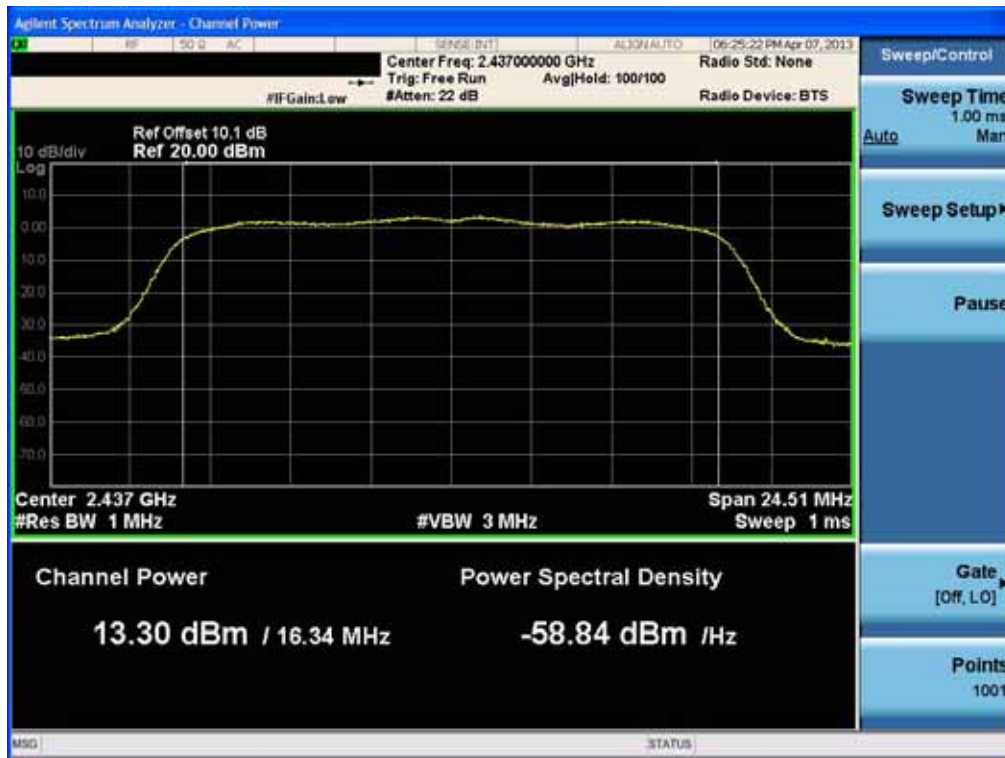
Conducted Output Power (802.11g-CH 6) 12Mbps



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



Conducted Output Power (802.11g-CH 6) 24Mbps



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



Conducted Output Power (802.11g-CH 6) 48Mbps



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



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



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



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



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



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



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



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



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



Conducted Output Power (802.11n-CH 1) 6.5Mbps



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



Conducted Output Power (802.11n-CH 1) 19.5Mbps



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



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



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



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



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



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



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

