

TEST REPORT

DT&C Co., Ltd. 42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel : 031-321-2664, Fax : 031-321-1664	Report No : DRTFCC1607-0100(1) Pages:(1) / (364) page	 Dt&C			
1. Customer • Name : LG Electronics USA, Inc. • Address : 1000 Sylvan Avenue, Englewood Cliffs, New Jersey 07632 2. Use of Report : FCC Original Grant 3. Product Name (FCC ID): RF Module (BEJLGSBWAC72) 4. Date of Test : 2016-04-20 ~ 2016-05-29 5. Test Method Used: FCC Part 15.407 Subpart E, RSS-247 Issue 1 (2015-05), RSS-GEN Issue 4 (2014-11) 6. Testing Environment : See appended test report 7. Test Result : ☒ Pass ☐ Fail The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full. <table border="1"><tr><td>Affirmation</td><td>Tested by Name : Hoonpyo Lee (Signature)</td><td>Technical Manager Name : WonJung Lee (Signature)</td></tr></table> 2016. 07. 27 DT&C Co., Ltd.			Affirmation	Tested by Name : Hoonpyo Lee (Signature)	Technical Manager Name : WonJung Lee (Signature)
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* If this test report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description
DRTFCC1607-0100	Jul. 18, 2016	Initial issue
DRTFCC1607-0100(1)	Jul. 27, 2016	Update Uncertainty and Equipment list of passive devices

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1. EUT DESCRIPTION

FCC Equipment Class	Unlicensed National Information Infrastructure (UNII)
Product	RF Module
Model Name	LGSBWAC72
Add Model Name	N/A
Software version	1.0
Hardware version	1.0
Power Supply	DC 3.3 V
Frequency Range	U-NII 1(5150 ~ 5250 MHz) 802.11a/n(HT20)/ac(VHT20): 5180 ~ 5240 MHz 802.11n(HT40)/ac(VHT40): 5190 ~ 5230 MHz 802.11ac(VHT80): 5210 MHz U-NII 2A(5250 ~ 5350 MHz) 802.11a/n(HT20)/ac(VHT20): 5260 ~ 5320 MHz 802.11n(HT40)/ac(VHT40): 5270 ~ 5310 MHz 802.11ac(VHT80): 5290 MHz U-NII 2C(5470 ~ 5725 MHz) 802.11a/n(HT20)/ac(VHT20): 5500 ~ 5720 MHz 802.11n(HT40)/ac(VHT40): 5510 ~ 5710 MHz 802.11ac(VHT80): 5530, 5690 MHz U-NII 3(5725 ~ 5850MHz) 802.11a/n(HT20)/ac(VHT20): 5745 ~ 5825 MHz 802.11n(HT40)/ac(VHT40): 5755 ~ 5795 MHz 802.11ac(VHT80): 5775 MHz
Modulation type	OFDM
Antenna Specification	Antenna type: Internal Antenna Antenna gain - U-NII 1 band: ANT 1: 1.30 dBi & ANT 2: 1.38 dBi - U-NII 2A band: ANT 1: 1.26 dBi & ANT 2: 1.41 dBi - U-NII 2C band: ANT 1: 1.29 dBi & ANT 2: 1.30 dBi - U-NII 3 band: ANT 1: 1.29 dBi & ANT 2: 1.33 dBi Antenna Configuration 802.11a: Single Transmitting (ANT 1 or ANT 2) 802.11a: Multiple Transmitting (ANT 1 and ANT 2) 802.11a/n(MCS 0 ~ 7, HT20/40) : Single Transmitting (ANT 1 or ANT 2) 802.11n(MCS 8 ~ 15, HT20/40) : Multiple Transmitting (ANT 1 and ANT 2) 802.11ac(NSS1 MCS 0 ~ 8, VHT20) : Single Transmitting (ANT 1 or ANT 2) 802.11ac(NSS2 MCS 0 ~ 8, VHT20) : Multiple Transmitting (ANT 1 and ANT 2) 802.11ac(NSS1 MCS 0 ~ 9, VHT40/80) : Single Transmitting (ANT 1 or ANT 2) 802.11ac(NSS2 MCS 0 ~ 9, VHT40/80) : Multiple Transmitting (ANT 1 and ANT 2)

Note: This device does not used TDWR band.

2. Information about test items

2.1 Test mode / Channel Information

5GHz Band	Mode	Data Rate	
		Single transmitting	Multiple transmitting
U-NII 1	802.11a	6Mbps	6Mbps
	802.11n(HT20)	MCS 0	MCS 8
	802.11n(HT40)	MCS 0	MCS 8
	802.11ac(VHT20)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT40)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT80)	NSS1 MCS 0	NSS2 MCS 0
U-NII 2A	802.11a	6Mbps	6Mbps
	802.11n(HT20)	MCS 0	MCS 8
	802.11n(HT40)	MCS 0	MCS 8
	802.11ac(VHT20)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT40)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT80)	NSS1 MCS 0	NSS2 MCS 0
U-NII 2C	802.11a	6Mbps	6Mbps
	802.11n(HT20)	MCS 0	MCS 8
	802.11n(HT40)	MCS 0	MCS 8
	802.11ac(VHT20)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT40)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT80)	NSS1 MCS 0	NSS2 MCS 0
U-NII 3	802.11a	6Mbps	6Mbps
	802.11n(HT20)	MCS 0	MCS 8
	802.11n(HT40)	MCS 0	MCS 8
	802.11ac(VHT20)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT40)	NSS1 MCS 0	NSS2 MCS 0
	802.11ac(VHT80)	NSS1 MCS 0	NSS2 MCS 0

Note 1: The worst case data rate is determined as above test mode according to the power measurements.

And all test items were performed at the worst case data rate.

Note 2: In case of radiated test, we have done all tx case. We attached the result of only MIMO mode (Worst case).

2.2 Tested Channel Information

5GHz Band	802.11a/n(HT20)		802.11n(HT40)		802.11ac(VHT80)	
	Channel	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Frequency [MHz]
U-NII 1	36	5180	38	5190	-	-
	40	5200	-	-	42	5210
	48	5240	46	5230	-	-
U-NII 2A	52	5260	54	5270	-	-
	60	5300	-	-	58	5290
	64	5320	62	5310	-	-
U-NII 2C	100	5500	102	5510	-	-
	116	5580	110	5550	106	5530
	-	-	-	-	-	-
U-NII 3	149	5745	151	5755	-	-
	157	5785	-	-	155	5775
	165	5825	159	5795	-	-

5GHz Band	802.11a/n(HT20)		802.11n(HT40)		802.11ac(VHT80)	
	Channel	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Frequency [MHz]
U-NII 2C & U-NII 3	144	5720	142	5710	138	5690

Note : Above channel is applied the KDB644545 D03.

2.3 Auxiliary equipment

Equipment	Model No.	Serial No.	Manufacturer	Note
Laptop	Satellite C50-A	YD068849Q	TOSHIBA	FCC ID: TX2-RTL8188EE

2.4 Tested environment

Temperature	: 20 °C ~ 25 °C
Relative humidity content	: 41 % ~ 45 % R.H.
Details of power supply	: DC 3.3 V

2.5 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing

→ None

3. SUMMARY OF TESTS

FCC Part Section(s)	RSS Std.	Parameter	Limit	Test Condition	Status Note 1
I. Transmitter Mode (TX)					
15.407(a)	-	Emission Bandwidth (26 dB Bandwidth)	N/A	Conducted	C
15.407(e)	RSS-247[6.2.4]	Minimum Emission Bandwidth (6 dB Bandwidth)	> 500 kHz in 5725 ~ 5850 MHz		C
-	RSS GEN[6.6]	Occupied Bandwidth (99%)	N/A		C
15.407(a)	RSS-247[6.2]	Maximum Conducted Output Power	5150 ~ 5250 MHz : < 30 dBm or < 23.97 dBm (FCC) < 200 mW or $10 + 10\log_{10}(B)$ dBm whichever power is less. (IC) 5250 ~ 5350 & 5470 ~ 5725 MHz : < 250 mW or $11 + 10\log_{10}(B)$ dBm, whichever power is less. (FCC & IC) 5725 ~ 5850 MHz : < 30 dBm (FCC & IC) Note: B is the 99 % BW(IC) or 26dB BW(FCC).		C Note 3
15.407(a)	RSS-247[6.2]	Peak Power Spectral Density	5150 ~ 5250 MHz : 11 dBm/MHz or 17 dBm/MHz(FCC) 5150 ~ 5250 MHz : < 10 dBm/MHz (IC) 5250 ~ 5350 & 5470 ~ 5725 MHz: 11 dBm/MHz (FCC & IC) 5725 ~ 5850 MHz: 30 dBm/500kHz(FCC & IC)		C Note 4
15.407(g)	RSS GEN[6.11]	Frequency Stability	N/A		C
15.407(b)	RSS-247[6.2]	Undesirable Emissions	5150 ~ 5725 MHz: < -27 dBm/MHz EIRP 5725 ~ 5850 MHz: < -17 dBm/MHz EIRP or < -27 dBm/MHz EIRP	Radiated	C Note 5
15.205 15.209 15.407(b)	RSS-247[6.2] RSS-GEN[8.9] RSS-GEN[8.10]	General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		C Note 6
15.407(h)	RSS-247[6.3]	Dynamic Frequency Selection	FCC 15.407(h)	Conducted	C Note 7
15.207	RSS-GEN[8.8]	AC Conducted Emissions	FCC 15.207	AC Line Conducted	C
15.203	RSS-GEN[8.3]	Antenna Requirements	FCC 15.203	-	C
Note 1: C = Comply NC = Not Comply NT = Not Tested NA = Not Applicable Note 2: The test items were performed according to the KDB789033 D02 V01r02, KDB662911 D01 v02r01, KDB644545 D03 v01 and ANSI C63.10-2013 Note 3: (i) For access point operating in the band 5.15 - 5.25 GHz: < 30 dBm (ii) For mobile and portable client devices in the 5.15 - 5.25 GHz band: < 23.97 dBm Note 4: (i) For access point operating in the band 5.15 - 5.25 GHz: < 17 dBm/MHz (ii) For mobile and portable client devices in the 5.15 - 5.25 GHz band: < 11 dBm/MHz Note 5: For transmitters operating in the 5.725 - 5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz Note 6: These test items were performed in each axis and the worst case data was reported. Note 7: Refer to the DFS test report.					

4. TEST METHODOLOGY

Generally the tests were performed according to the KDB789033 D02 v01r02. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing

4.1 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.

4.2 EUT exercise

The EUT was operated in the test 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 15.407 under the FCC Rules Part 15 Subpart C.

4.3 General test procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB789033 D02. So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB789033 D02. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10-2013 as stated on KDB789033 D02.

The EUT is placed on a non-conductive 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 1 or 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 highest emission, the relative positions of the EUT were rotated through three orthogonal axis.

4.4 Description of test modes

A test program is used to control the EUT for staying in continuous transmitting mode with maximum fixed duty cycle.

4.5 Measurement Uncertainty

Test items	Measurement uncertainty
Transmitter Output Power	1.3 dB (The confidence level is about 95 %, k = 2)
Conducted spurious emission	0.94 dB (The confidence level is about 95 %, k = 2)
AC conducted emission	2.36 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz Below)	5.1 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz ~ 18 GHz)	5.4 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, k = 2)

5. 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.

6. FACILITIES AND ACCREDITATIONS

6.1 Facilities

The open area test site(OATS) or semi anechoic chamber and conducted measurement facility used to collect the radiated and conducted test data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 449-935. The site is constructed in conformance with the requirements.

- Semi anechoic chamber registration Number: 165783 (FCC) & 5740A-3 (IC)

6.2 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, loop, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and peak, 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."

7. ANTENNA REQUIREMENTS

7.1 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 EUT used two unique antennas.

Therefore this module complies with the requirement of §15.203

7.2 Directional antenna gain(Worst case):

Bands	ANT 1 [dBi]	ANT 2 [dBi]	Directional Gain [dBi]
U-NII 1	1.300	1.380	1.340 Note 2.
U-NII 2A	1.260	1.410	1.336 Note 2.
U-NII 2C	1.290	1.300	1.295 Note 2.
U-NII 3	1.290	1.330	1.310 Note 2.

Note 1. Directional gain(correlated signal with unequal antenna gain and equal transmit power)

$$10 \log [(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N^{ANT}] \text{ dBi}$$

Note 2. Directional gain(completely uncorrelated signal with unequal antenna gain and equal transmit power)

$$10 \log [(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N^{ANT}] \text{ dBi}$$

Note 3. Directional gain(spatial multiplexing)

$$G_{ANT \text{ MAX}} + 10 \log (N_{ANT} / N_{SS}) \text{ dBi}$$

8. TEST RESULT

8.1 Emission Bandwidth (26 dB Bandwidth)

■ Test Requirements

The bandwidth at 26 dB down from the highest in-band 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. The 26 dB bandwidth is used to determine the conducted output power limit.

■ Test Configuration

Refer to the APPENDIX I.

■ Test Procedure

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of **KDB789033 D02**.

1. Set resolution bandwidth (RBW) = approximately **1 %** of the EBW.
2. Set the video bandwidth (**VBW**) > **RBW**.
3. Detector = **Peak**.
4. Trace mode = **max hold**.

Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

■ TEST RESULTS: **Comply**

Single Transmit

Mode	Band	Channel	Frequency [MHz]	Test Result [MHz]	
				ANT 1	ANT 2
802.11a	U-NII 1	36	5180	19.760	19.660
		40	5200	19.790	19.720
		48	5240	19.690	19.510
	U-NII 2A	52	5260	19.640	19.710
		60	5300	19.770	19.750
		64	5320	19.710	19.580
	U-NII 2C	100	5500	19.620	19.490
		116	5580	19.530	19.630
		-	-	-	-
802.11n (HT20)	U-NII 1	36	5180	19.850	19.840
		40	5200	19.950	19.800
		48	5240	20.000	19.870
	U-NII 2A	52	5260	20.030	20.040
		60	5300	19.920	19.790
		64	5320	19.820	20.100
	U-NII 2C	100	5500	19.900	19.890
		116	5580	19.990	19.930
		-	-	-	-
802.11n (HT40)	U-NII 1	38	5190	39.840	41.040
		46	5230	40.110	39.920
	U-NII 2A	54	5270	40.020	40.260
		62	5310	40.360	40.690
	U-NII 2C	102	5510	39.750	40.180
		110	5550	40.640	40.070
	-	-	-	-	-
		-	-	-	-
		-	-	-	-
802.11ac (VHT80)	U-NII 1	42	5210	80.800	80.790
		-	-	-	-
	U-NII 2A	58	5290	80.550	80.580
		-	-	-	-
	U-NII 2C	106	5530	80.160	80.180
802.11a	U-NII 2C Cross Band	144	5720	14.770	15.660
		-	-	-	-
802.11n (HT20)	U-NII 2C Cross Band	144	5720	14.930	14.780
		-	-	-	-
802.11n(HT40)	U-NII 2C Cross Band	142	5710	35.190	35.100
		-	-	-	-
802.11ac (VHT80)	U-NII 2C Cross Band	138	5690	74.860	74.820
		-	-	-	-
802.11a	U-NII 3 Cross Band	144	5720	4.610	4.790
		-	-	-	-
802.11n (HT20)	U-NII 3 Cross Band	144	5720	4.970	4.950
		-	-	-	-
802.11n(HT40)	U-NII 3 Cross Band	142	5710	5.240	4.940
		-	-	-	-
802.11ac (VHT80)	U-NII 3 Cross Band	138	5690	4.960	4.980
		-	-	-	-

Multiple Transmit

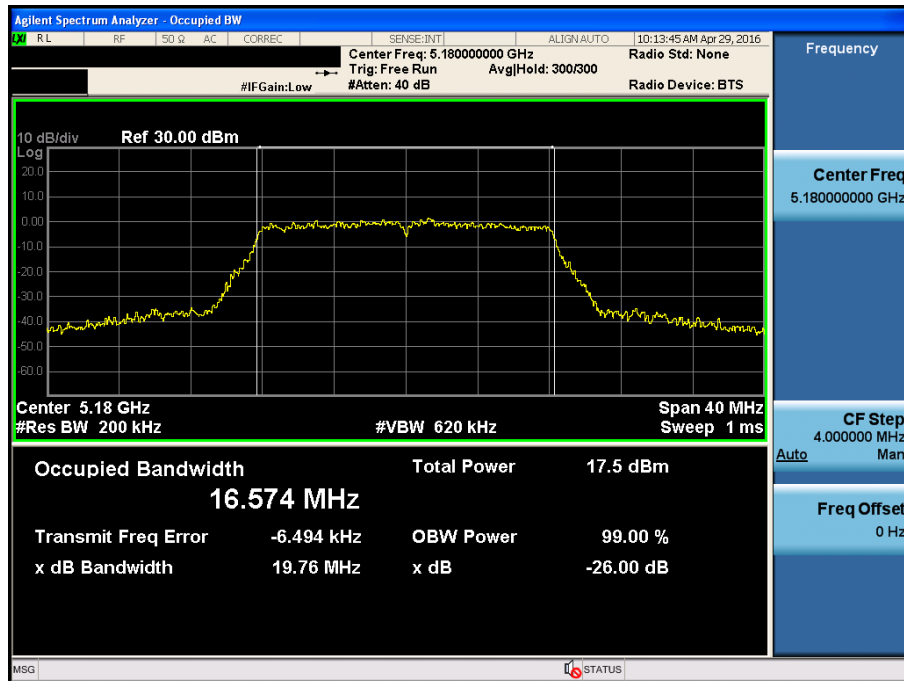
Mode	Band	Channel	Frequency [MHz]	Test Result [MHz]	
				ANT 1	ANT 2
802.11a	U-NII 1	36	5180	19.510	19.710
		40	5200	19.570	19.710
		48	5240	19.560	19.720
	U-NII 2A	52	5260	19.680	19.440
		60	5300	19.450	19.750
		64	5320	19.630	19.470
		100	5500	19.360	19.600
	U-NII 2C	116	5580	19.510	19.420
		-	-	-	-
		-	-	-	-
802.11n (HT20)	U-NII 1	36	5180	20.100	19.910
		40	5200	19.970	19.960
		48	5240	19.860	19.810
	U-NII 2A	52	5260	20.020	19.960
		60	5300	19.910	19.640
		64	5320	20.110	19.750
	U-NII 2C	100	5500	19.770	19.890
		116	5580	19.810	19.800
		-	-	-	-
		-	-	-	-
802.11n (HT40)	U-NII 1	38	5190	39.710	39.720
		46	5230	40.610	39.940
	U-NII 2A	54	5270	40.100	39.630
		62	5310	40.510	39.630
	U-NII 2C	102	5510	39.980	39.810
		110	5550	40.340	39.850
		-	-	-	-
		-	-	-	-
802.11ac (VHT80)	U-NII 1	42	5210	80.100	80.410
		-	-	-	-
	U-NII 2A	58	5290	79.960	80.670
		-	-	-	-
	U-NII 2C	106	5530	80.350	80.290
802.11a	U-NII 2C Cross Band	144	5720	14.830	15.680
		-	-	-	-
802.11n (HT20)	U-NII 2C Cross Band	144	5720	14.920	14.860
		-	-	-	-
802.11n(HT40)	U-NII 2C Cross Band	142	5710	35.030	34.940
		-	-	-	-
802.11ac (VHT80)	U-NII 2C Cross Band	138	5690	75.120	75.160
		-	-	-	-
802.11a	U-NII 3 Cross Band	144	5720	4.730	5.330
		-	-	-	-
802.11n (HT20)	U-NII 3 Cross Band	144	5720	4.990	4.790
		-	-	-	-
802.11n(HT40)	U-NII 3 Cross Band	142	5710	5.400	4.960
		-	-	-	-
802.11ac (VHT80)	U-NII 3 Cross Band	138	5690	5.080	4.780
		-	-	-	-

■ Result Plots

Single Transmit

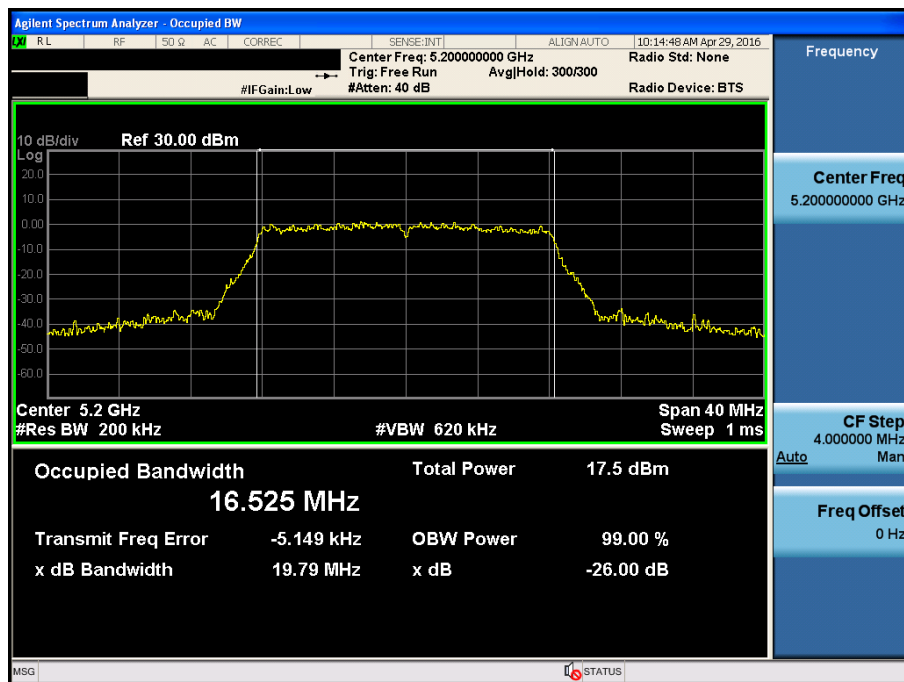
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.36



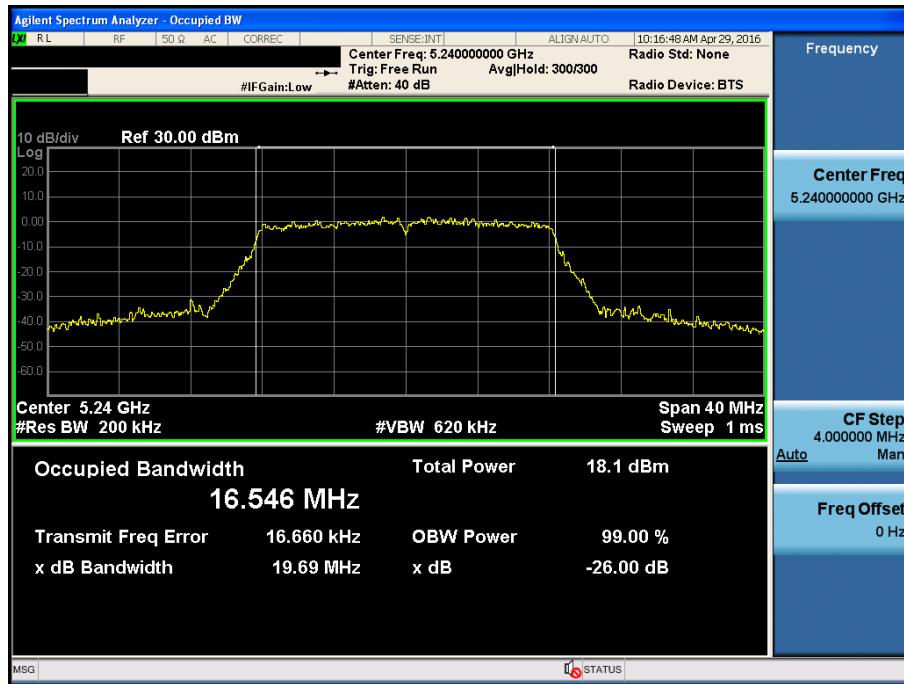
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.40



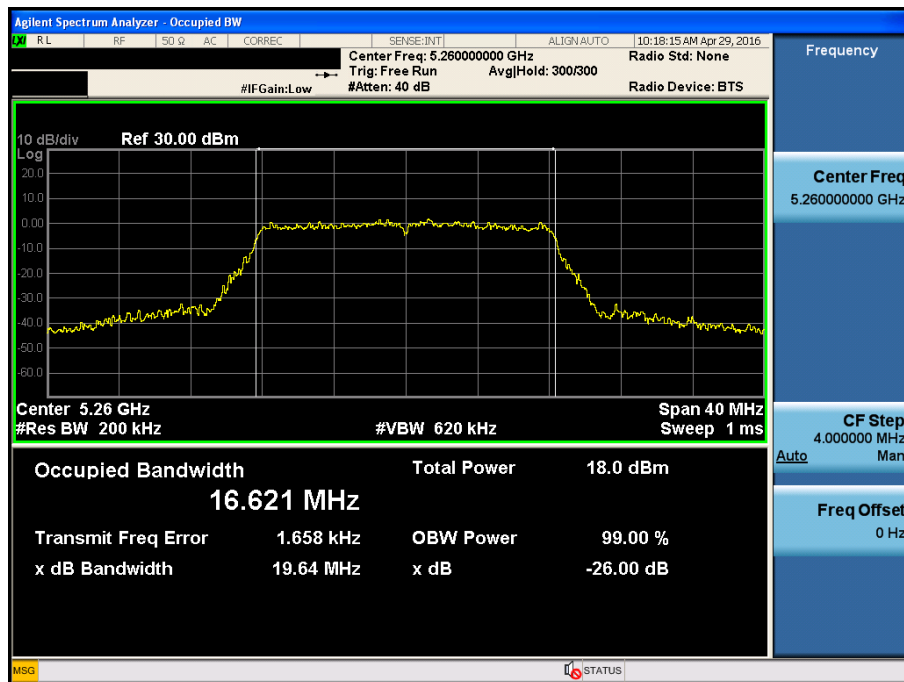
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.48



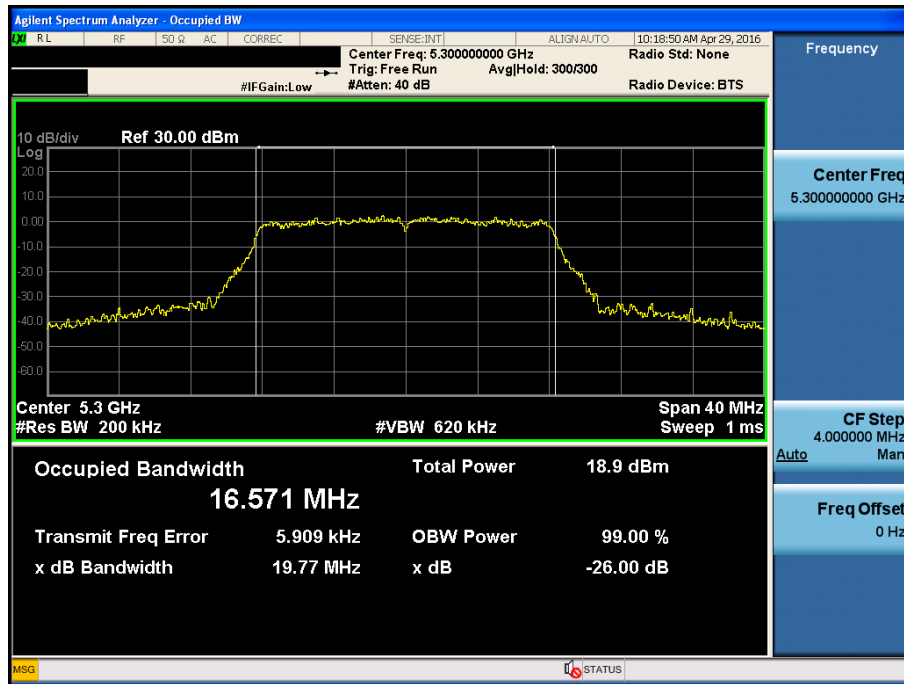
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.52



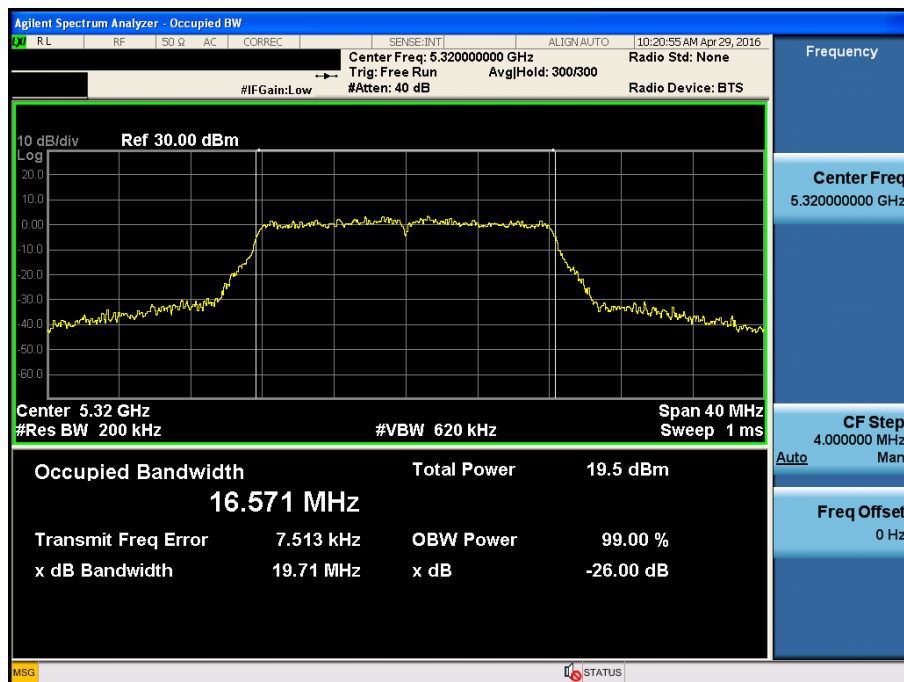
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.60



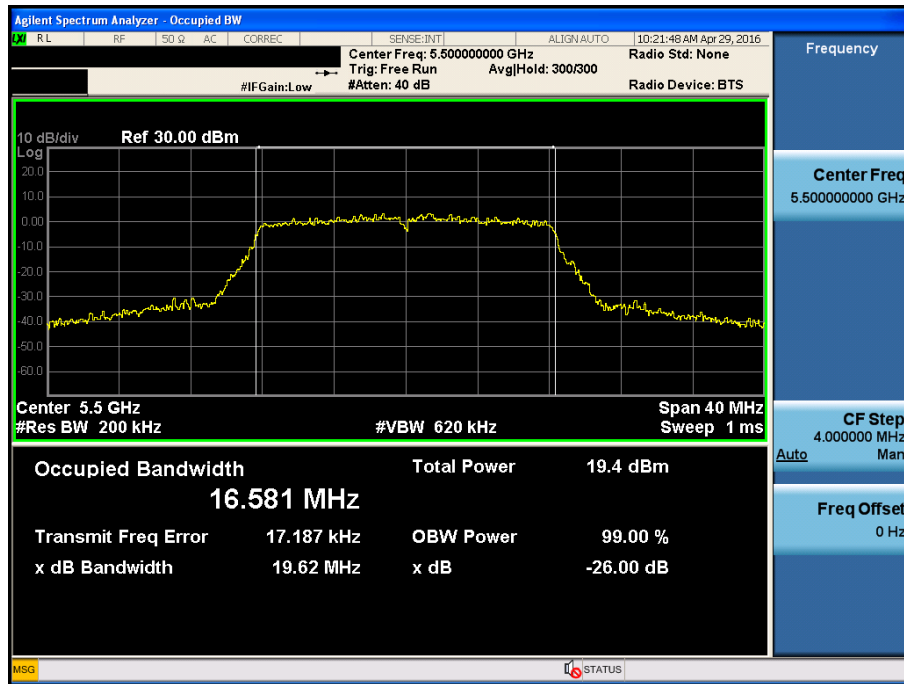
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.64



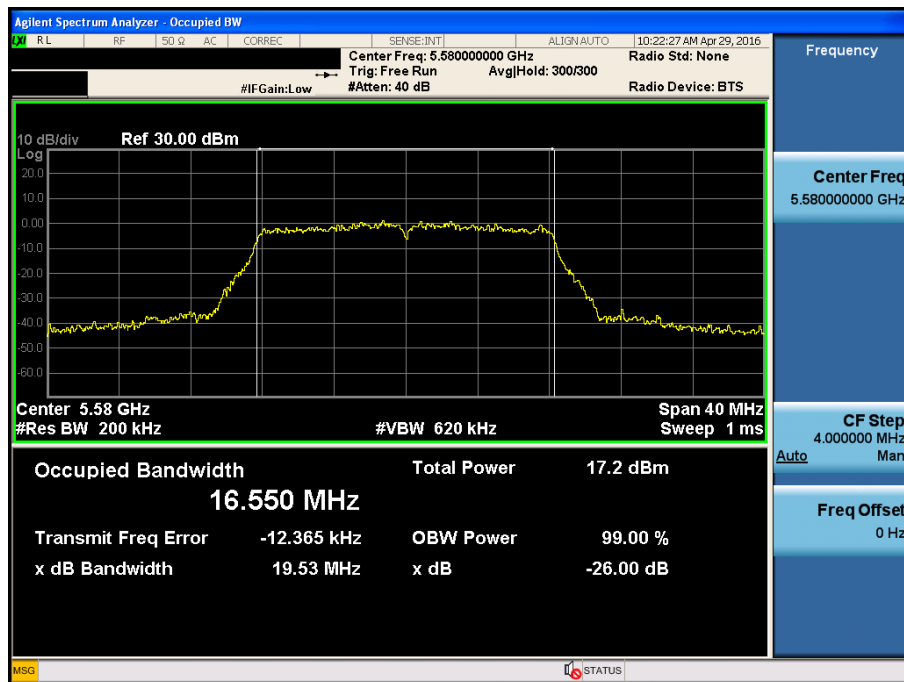
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.100



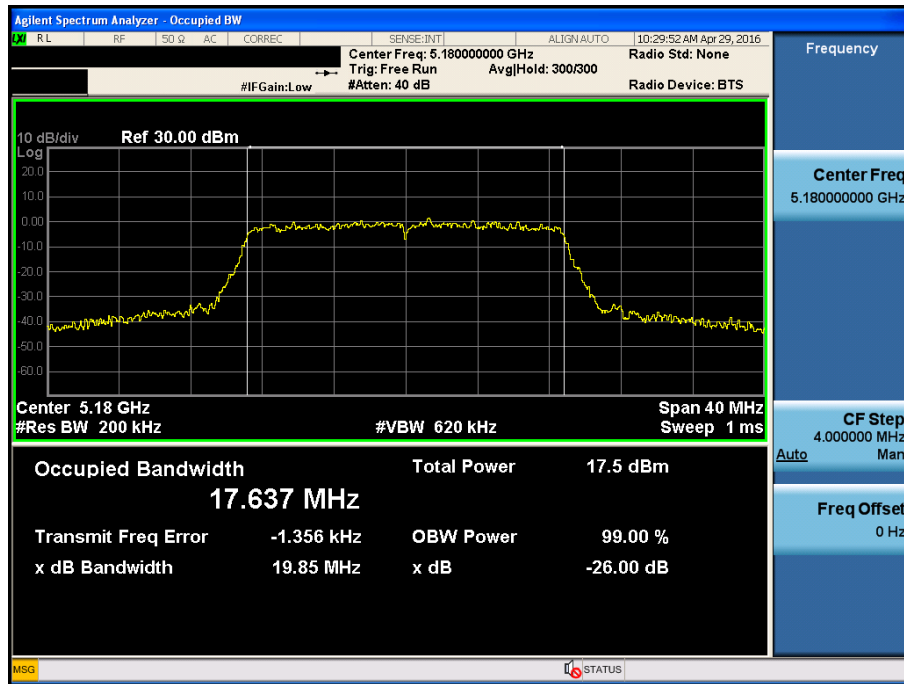
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.116



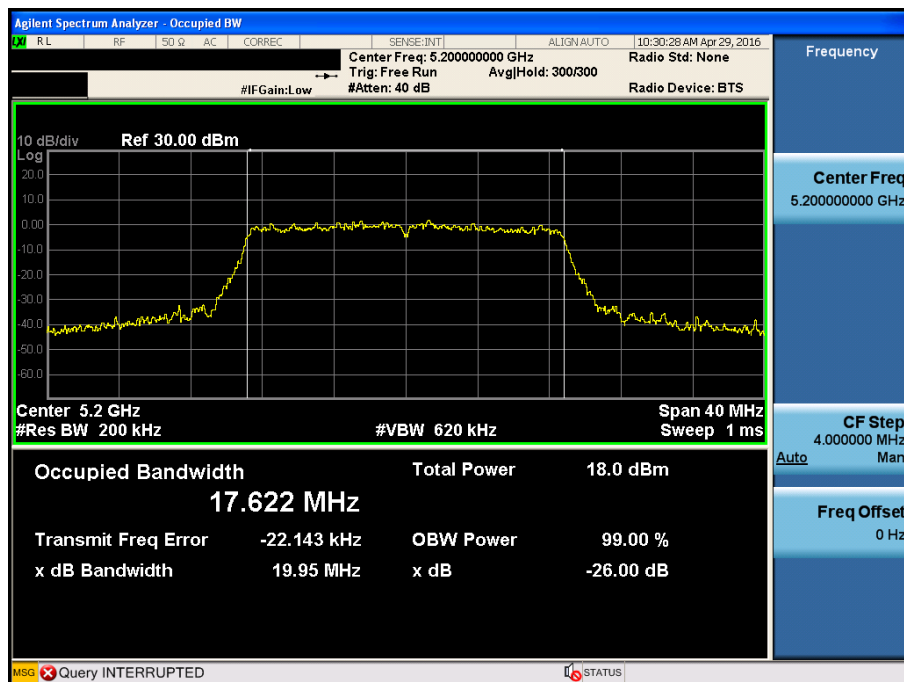
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.36



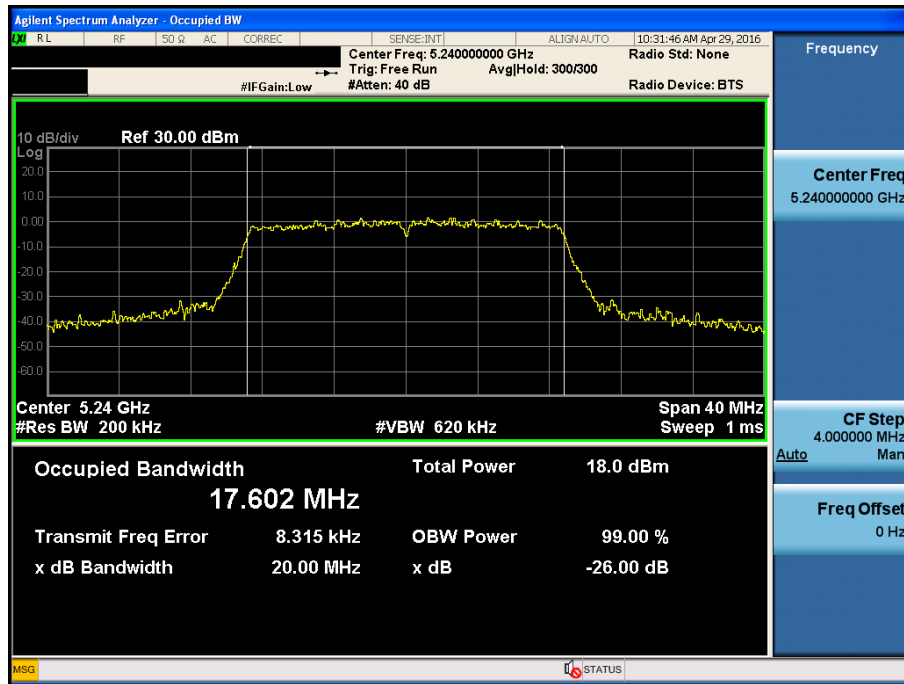
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.40



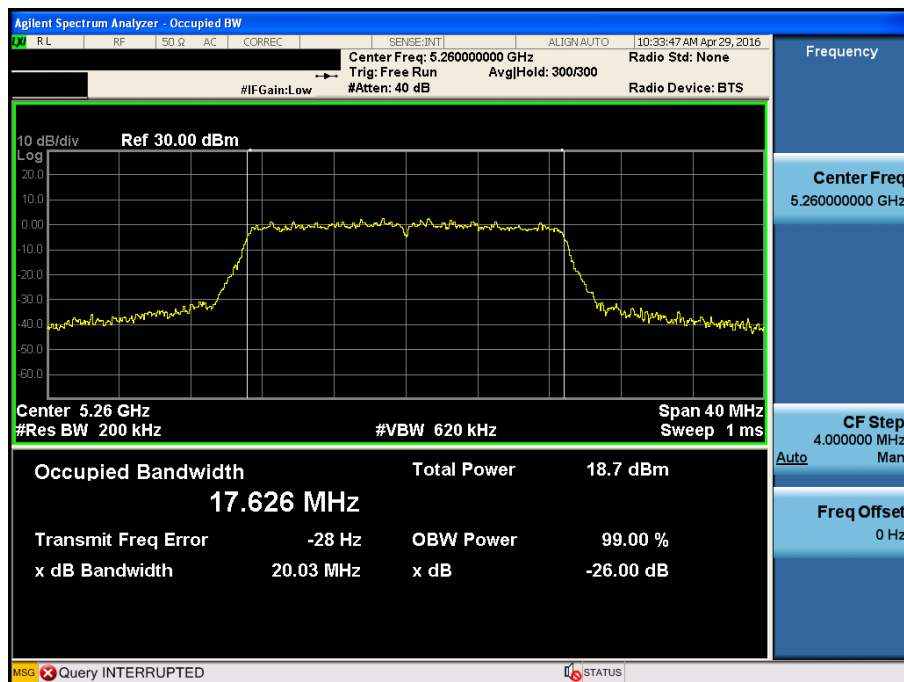
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.48



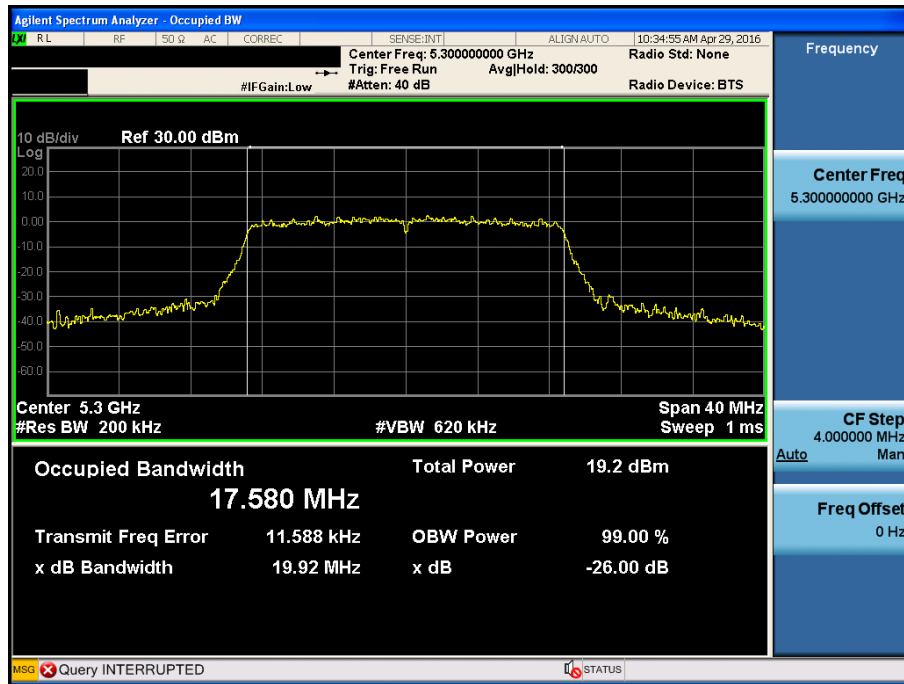
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.52



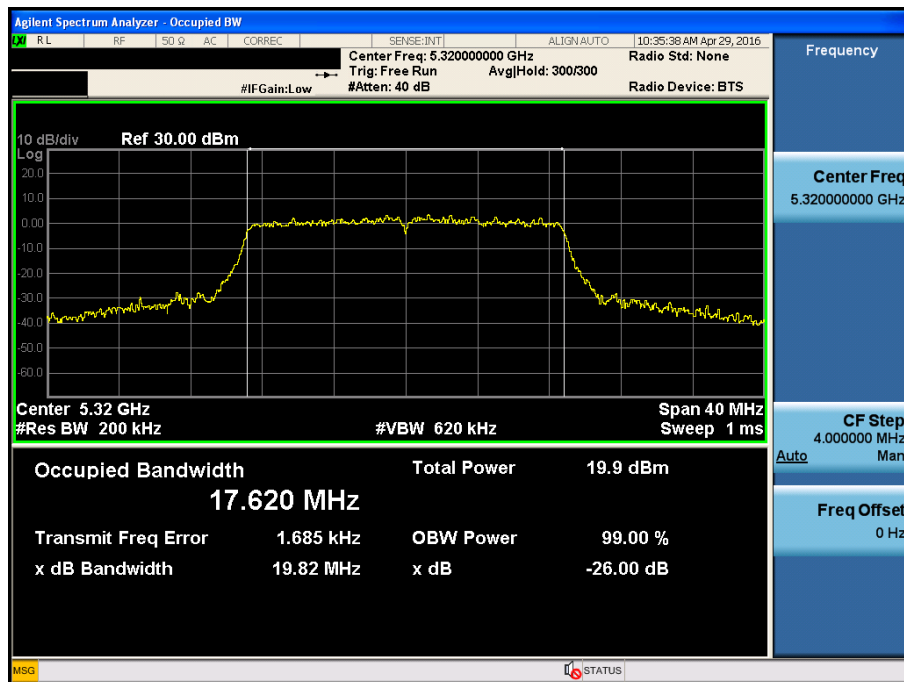
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.60



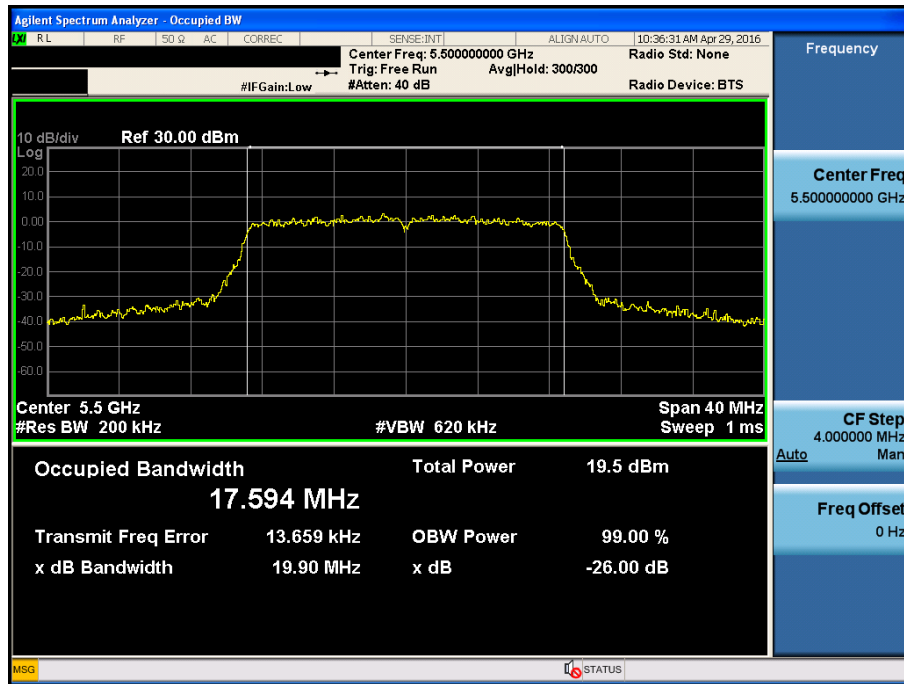
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.64



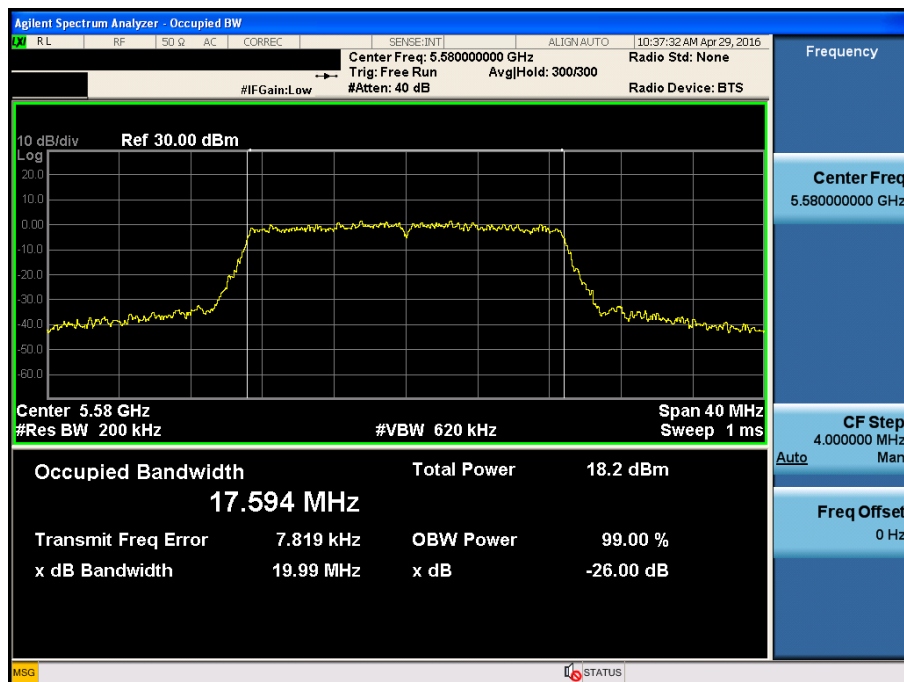
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.100



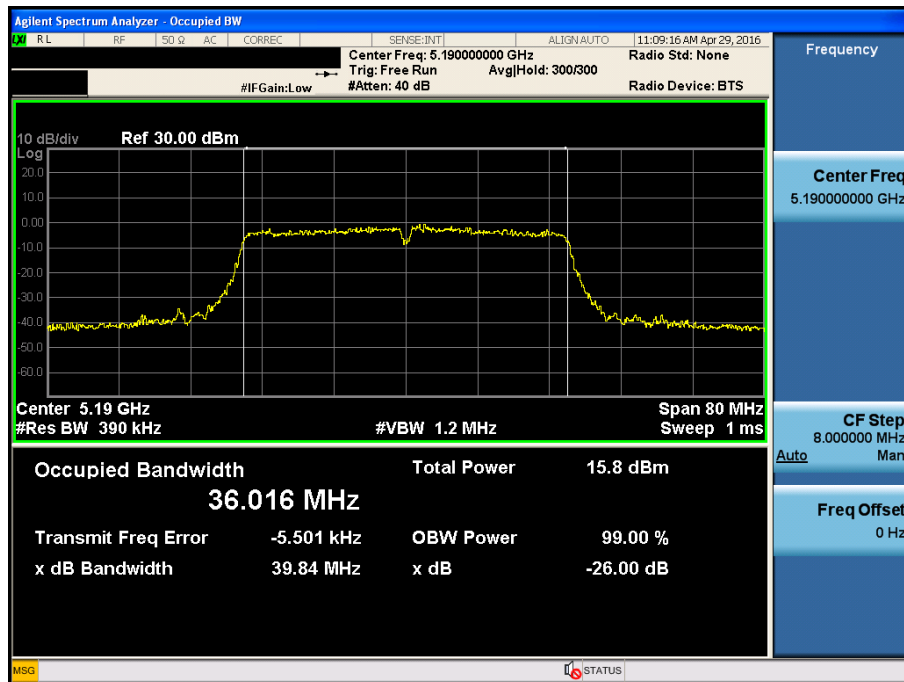
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.116



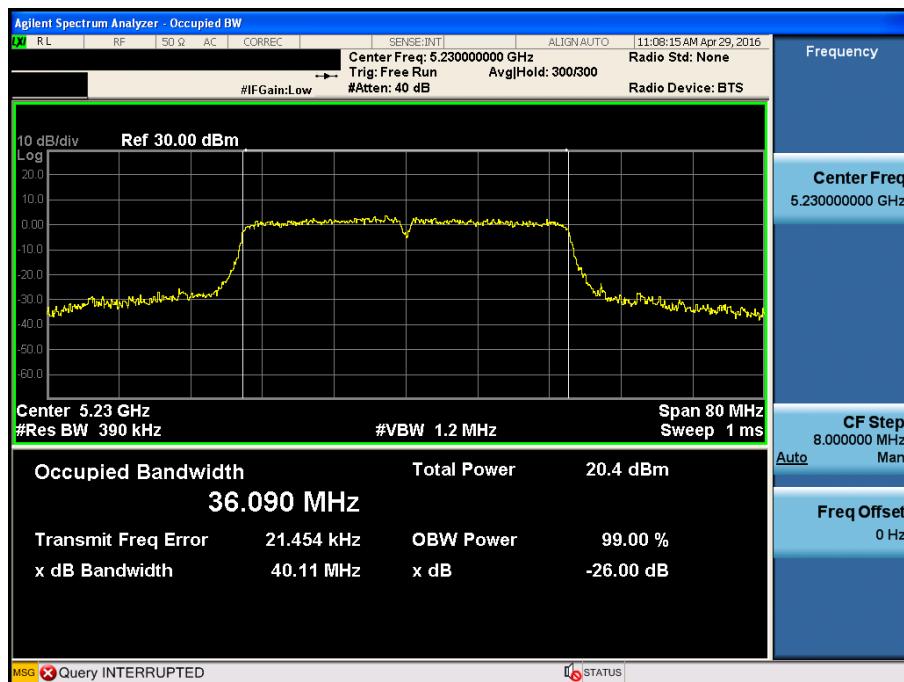
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.38



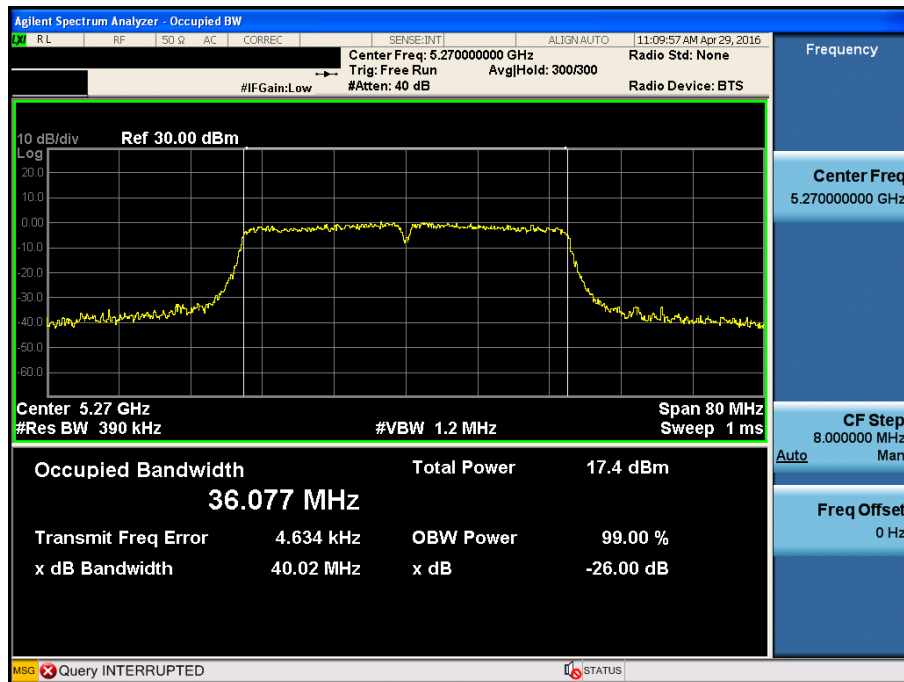
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.46



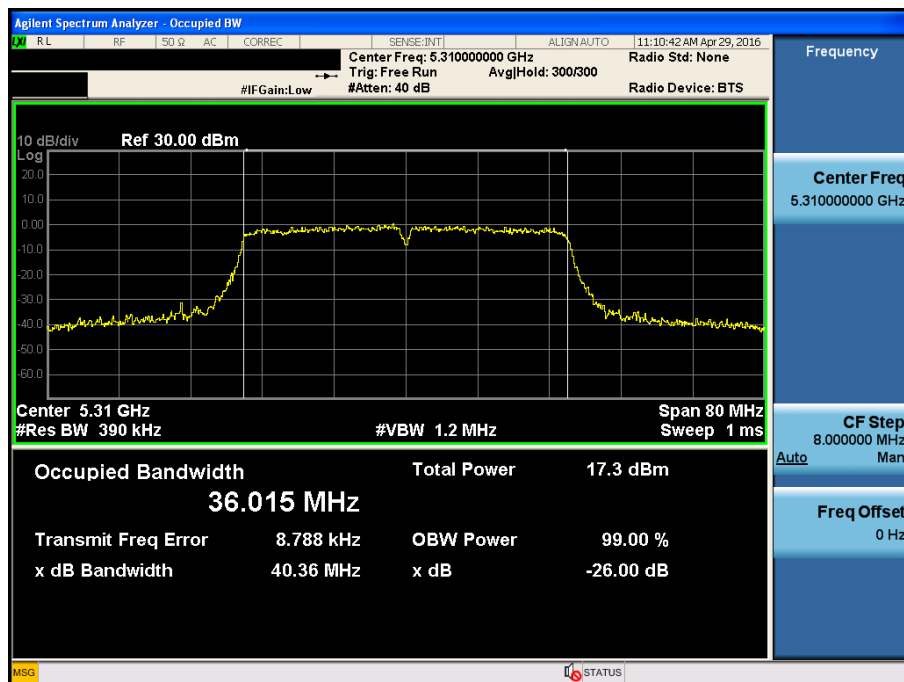
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.54



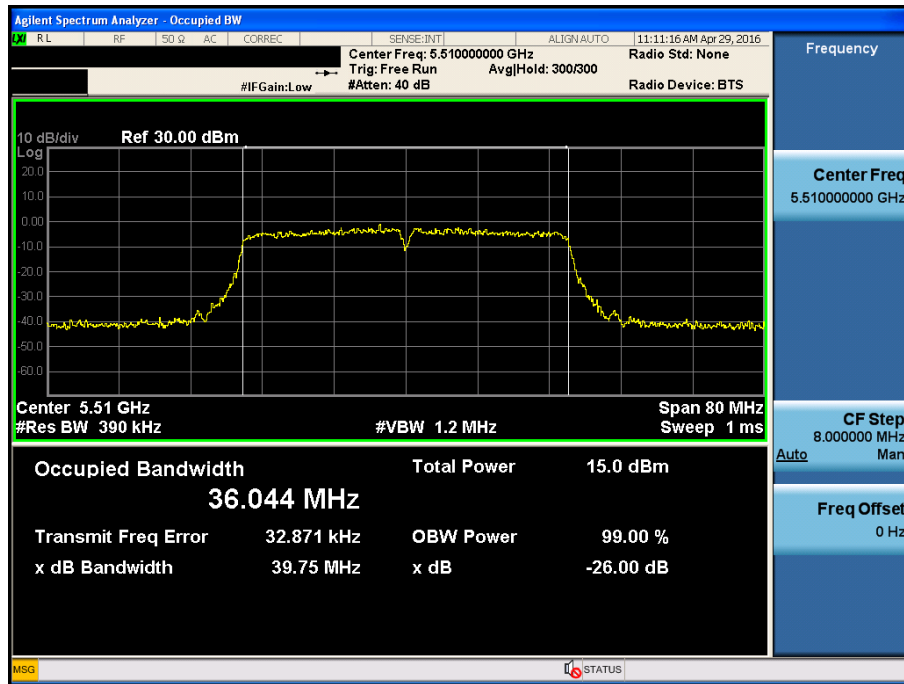
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.62



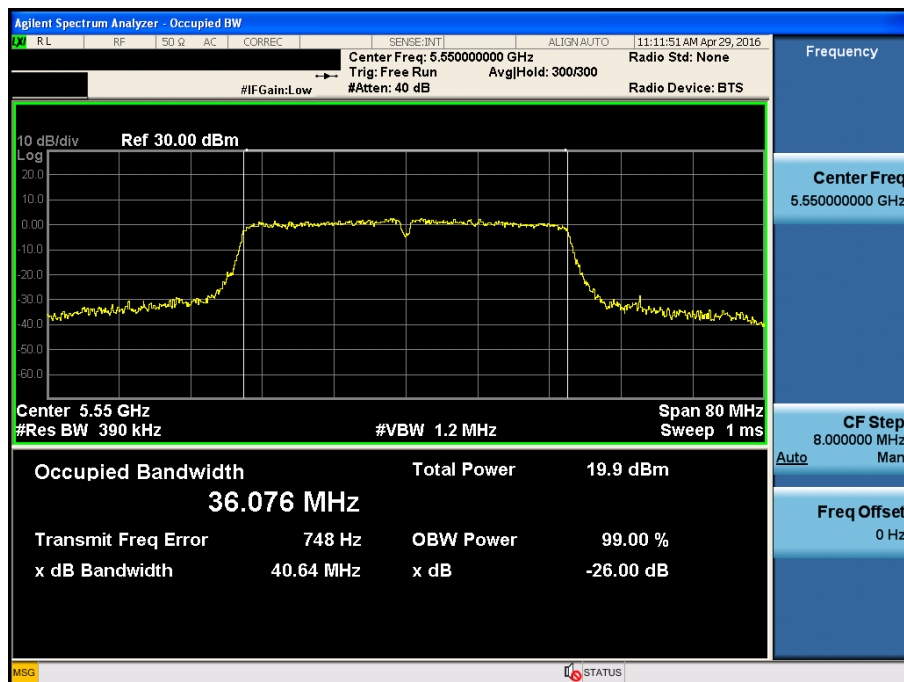
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.102



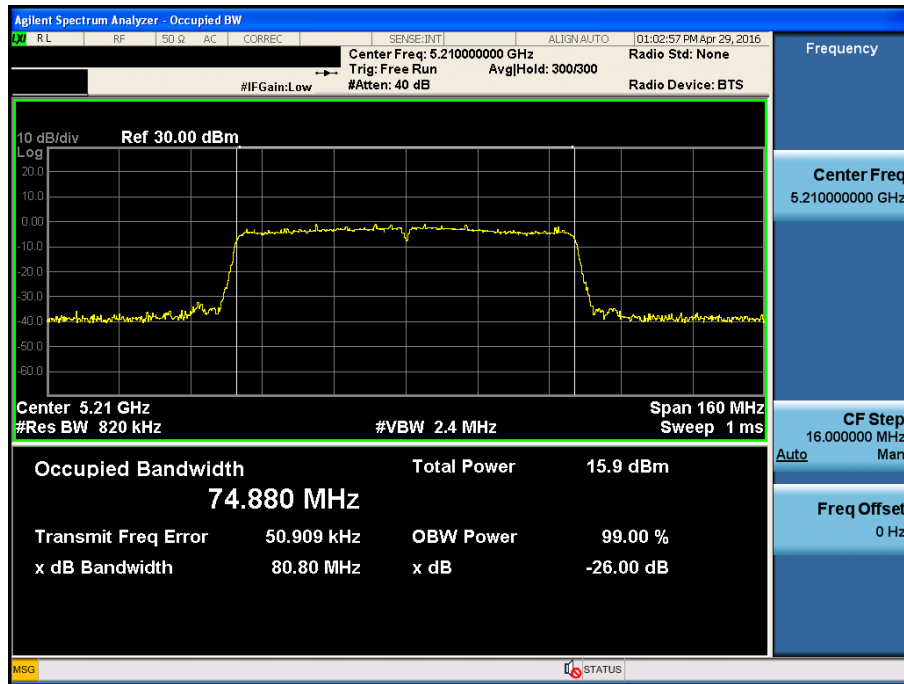
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.110



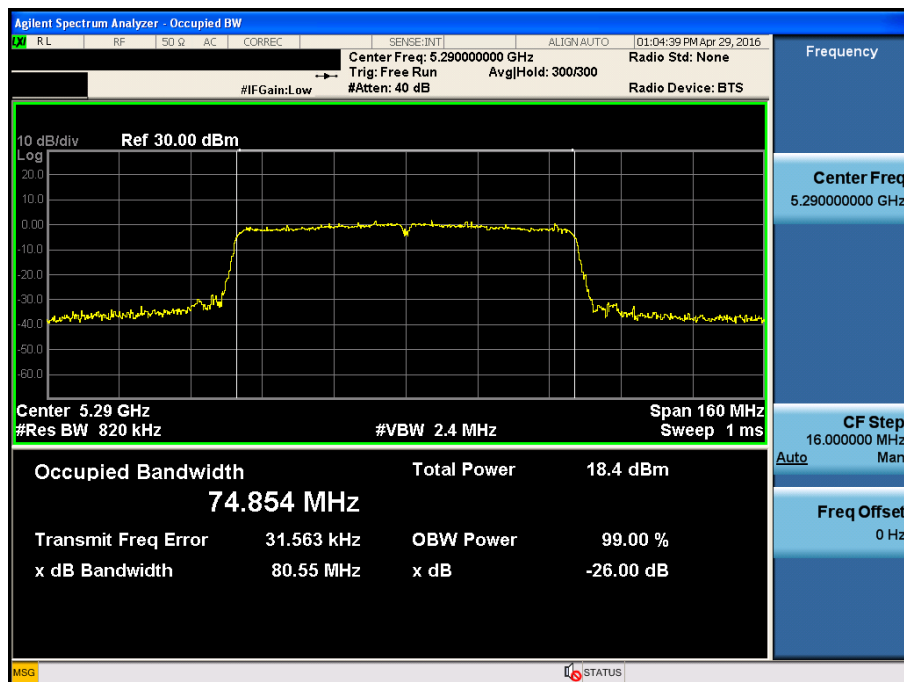
26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.42



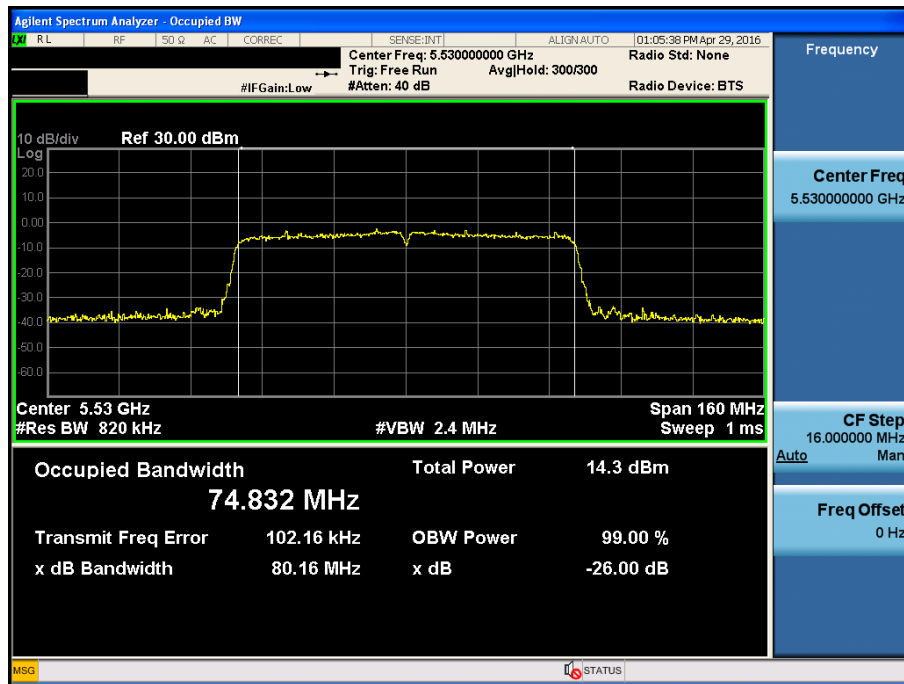
26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.58



26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.106



26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.144



26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.144



26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.142



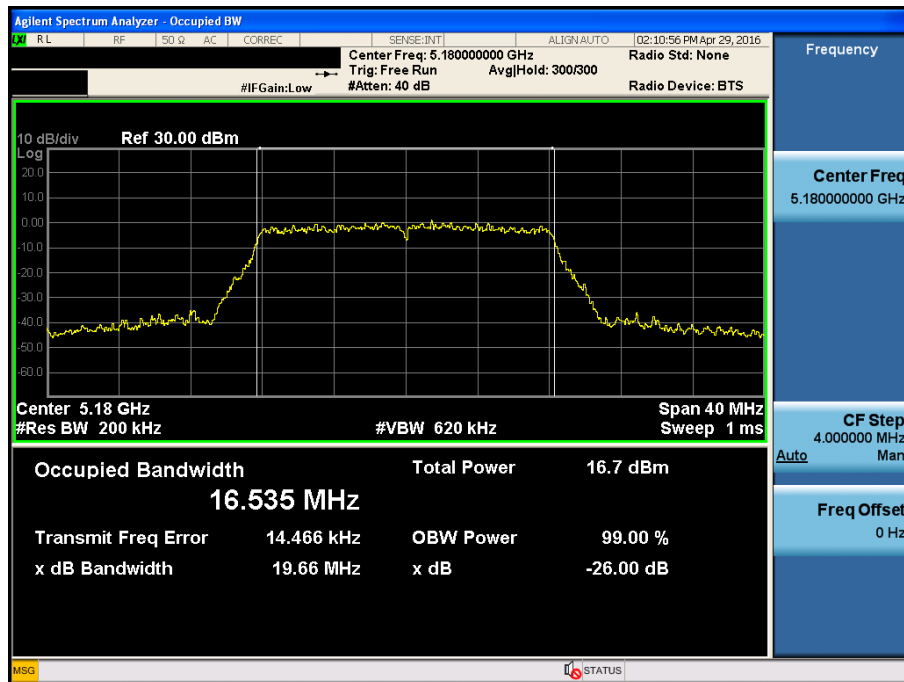
26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.138



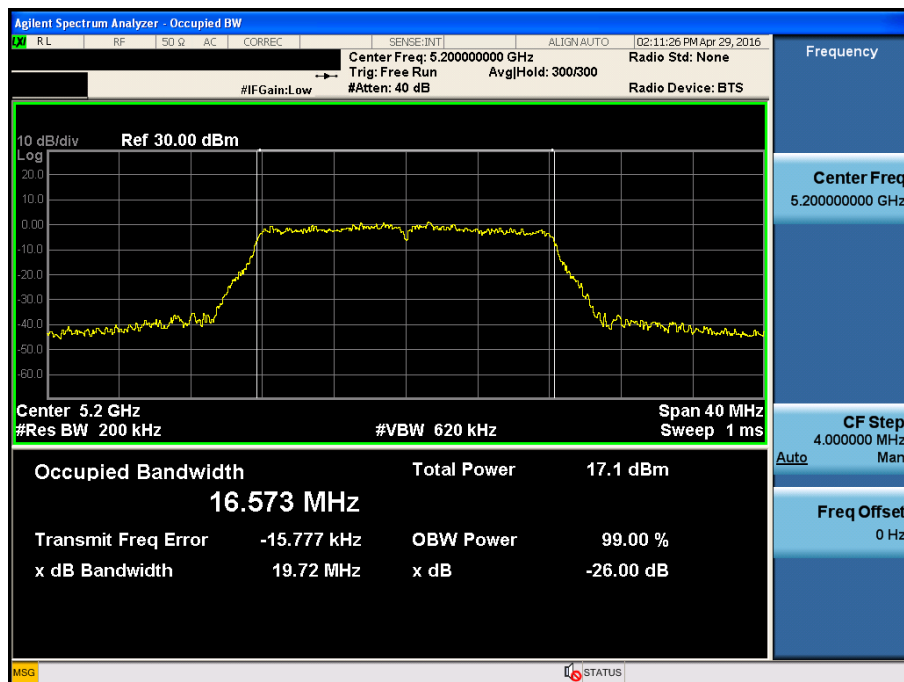
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.36



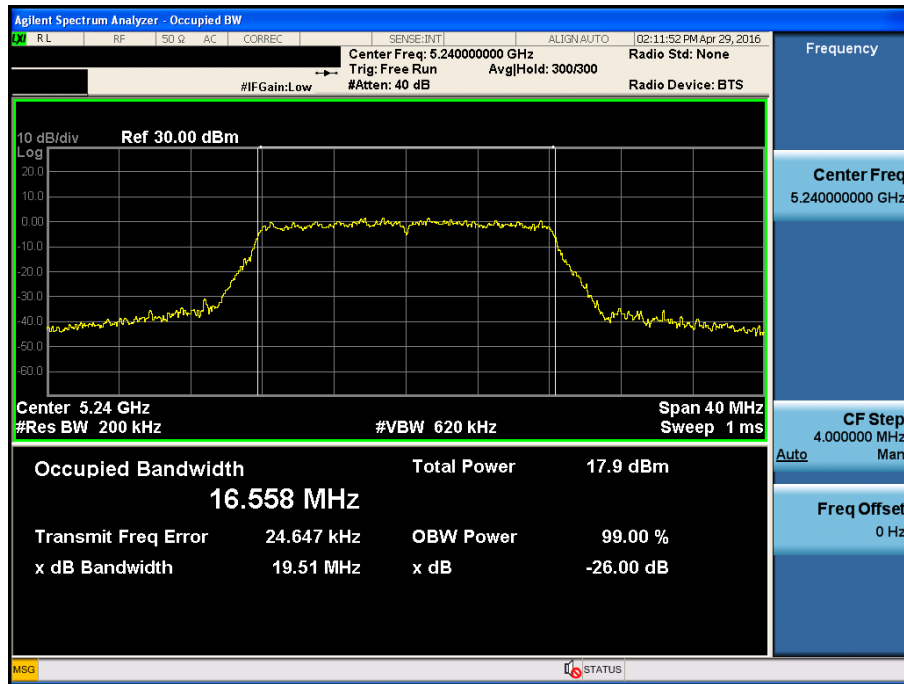
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.40



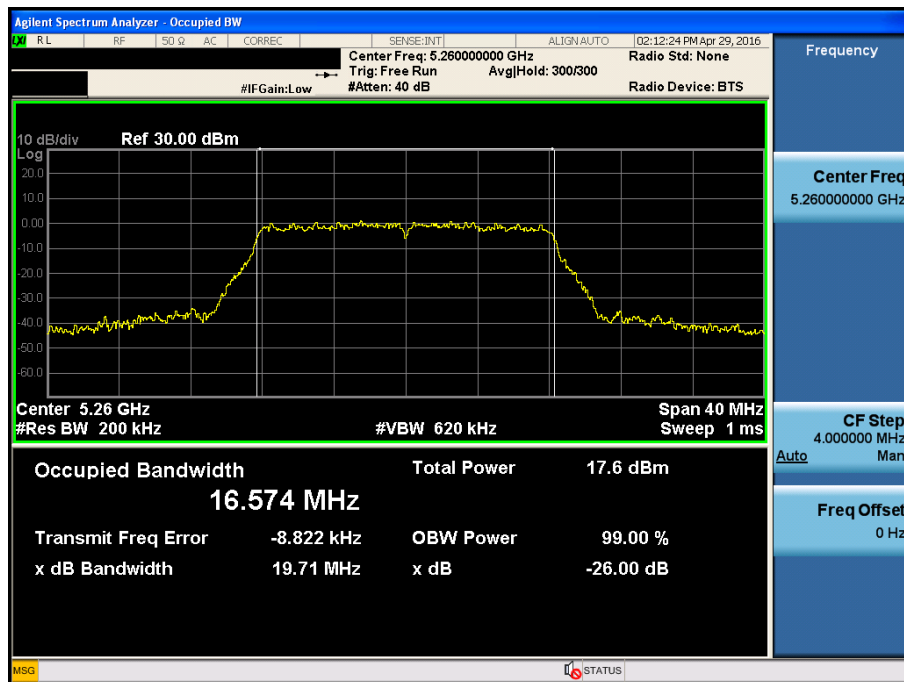
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.48



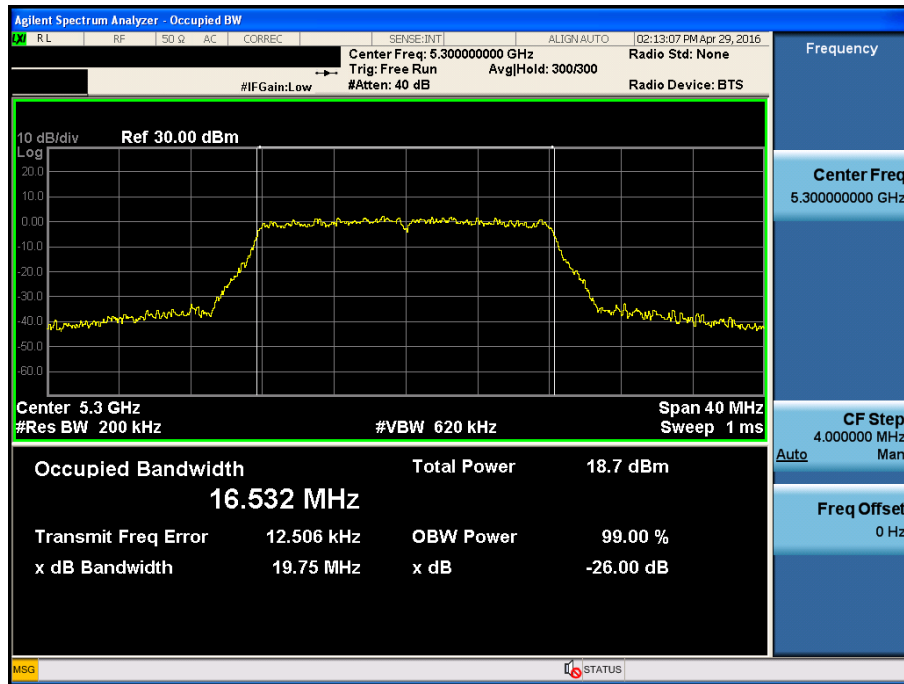
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.52



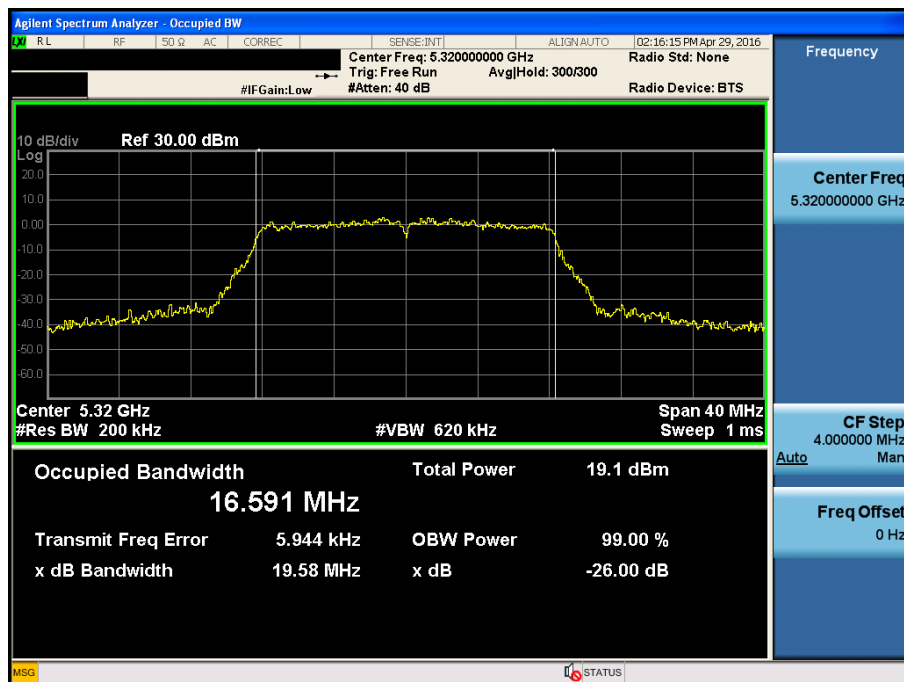
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.60



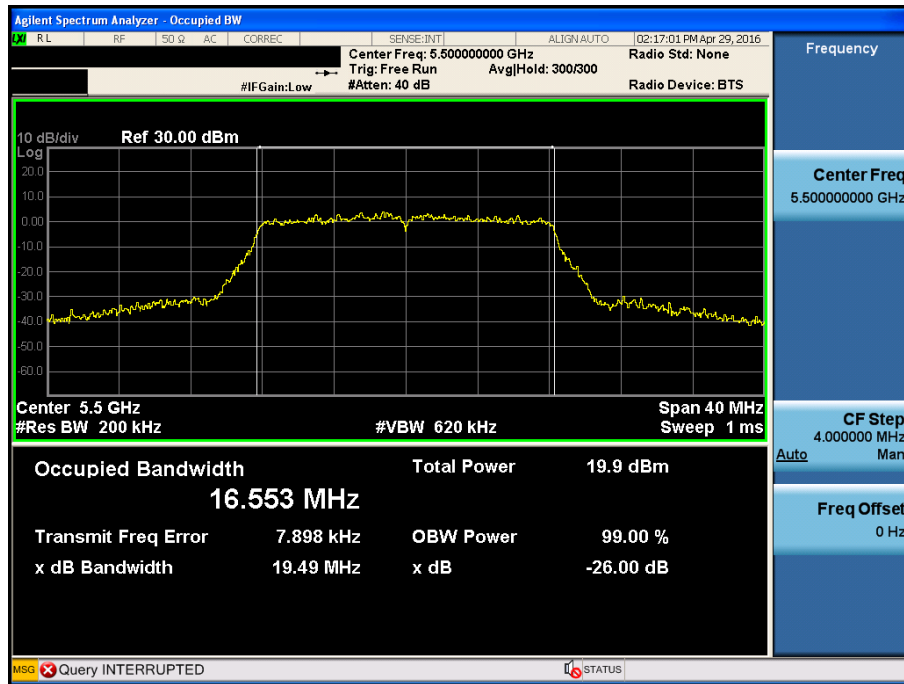
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.64



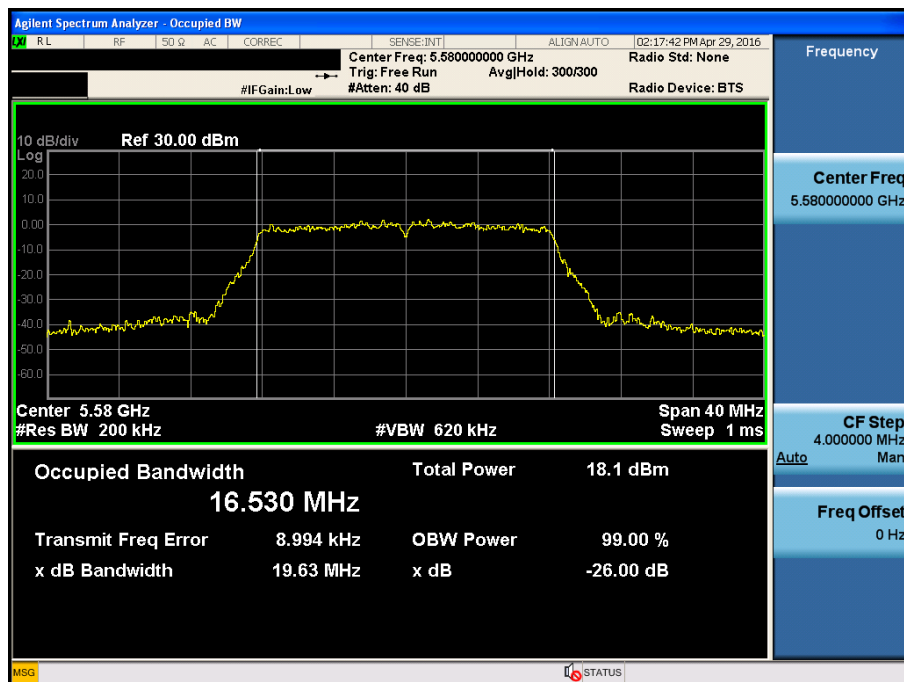
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.100



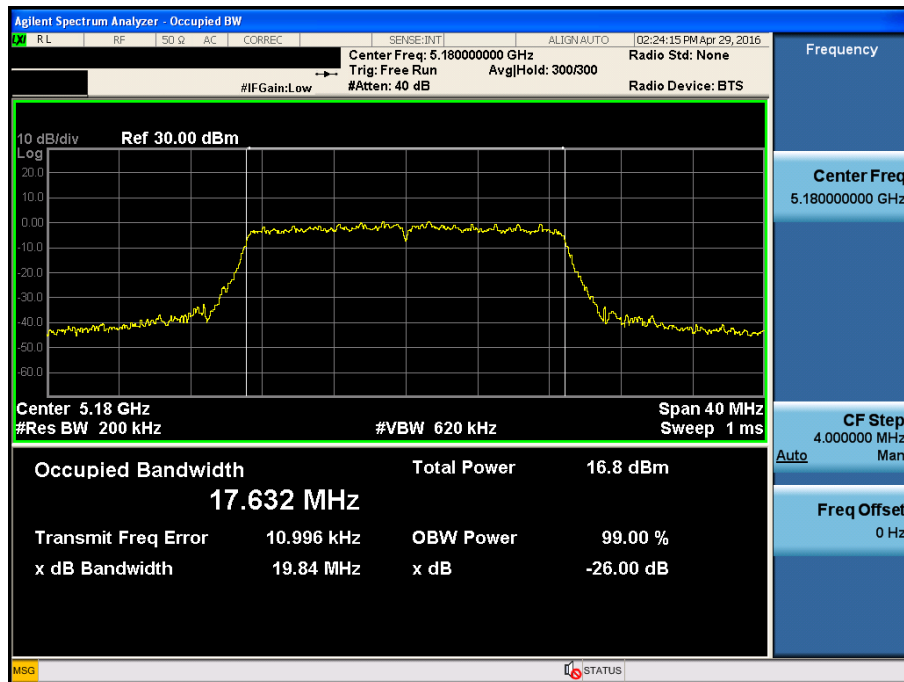
26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.116



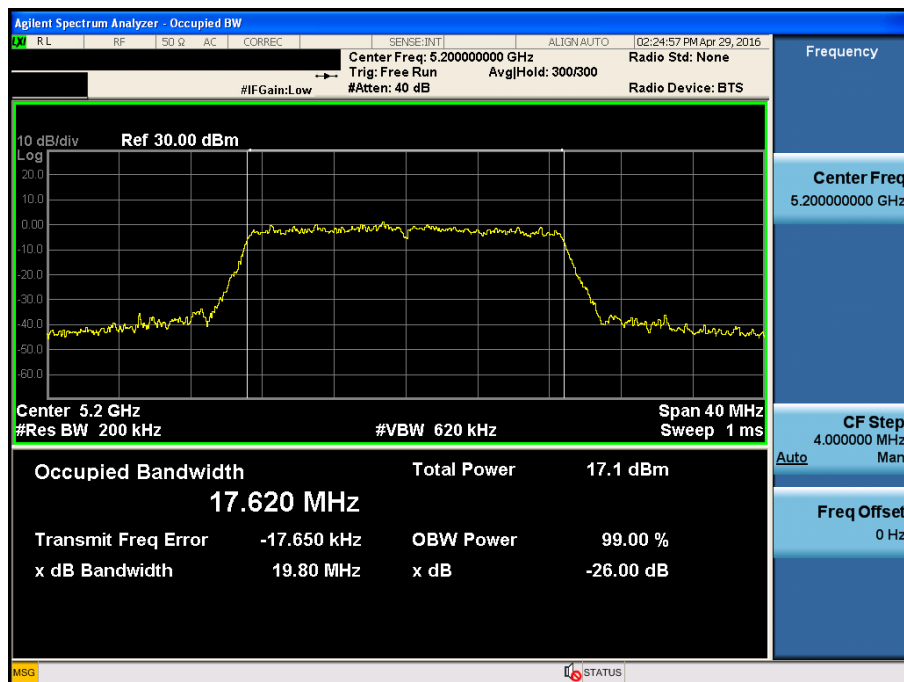
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.36



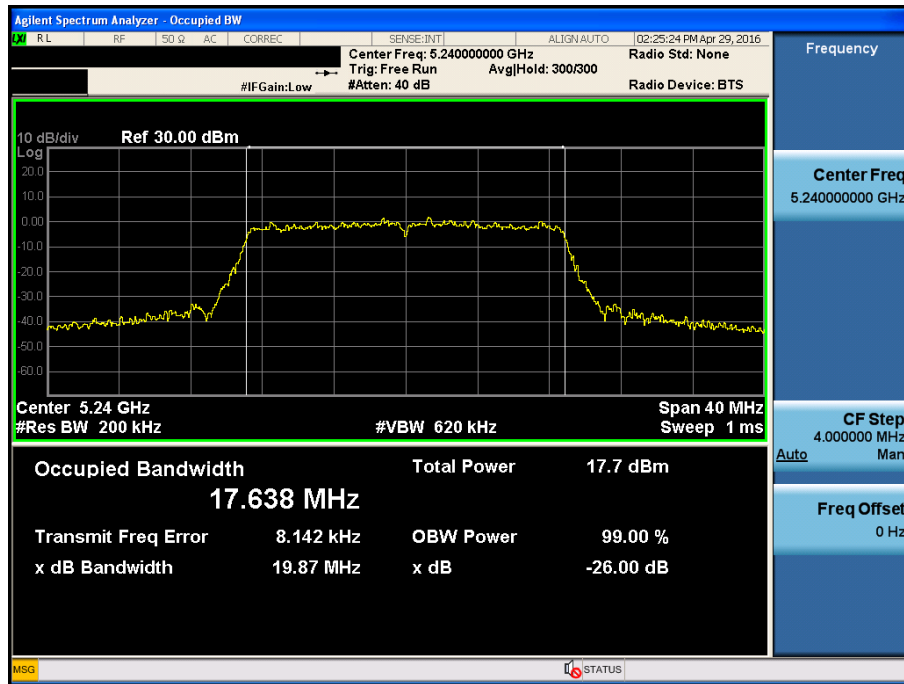
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.40



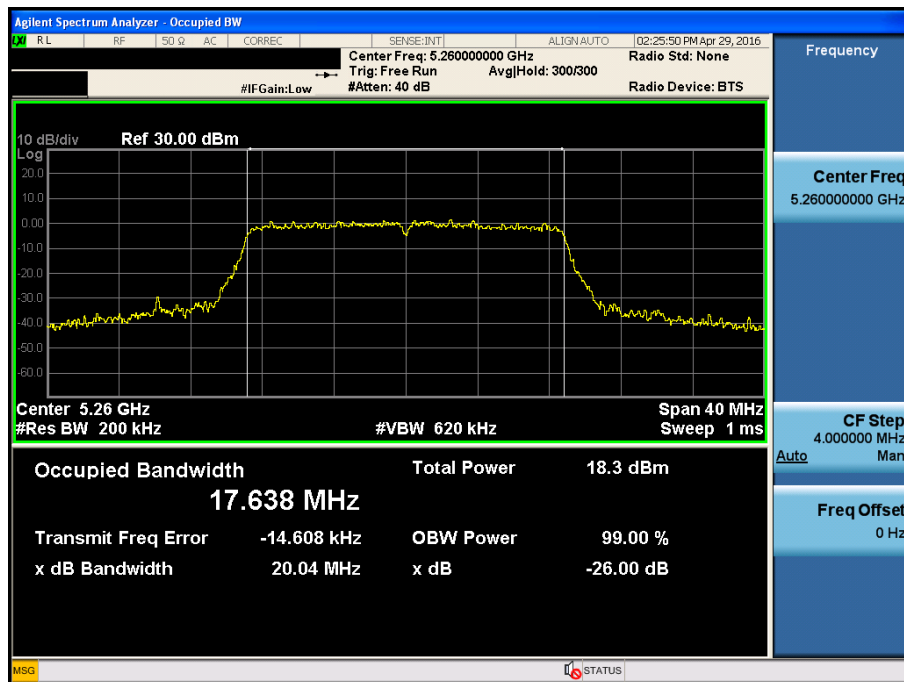
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.48



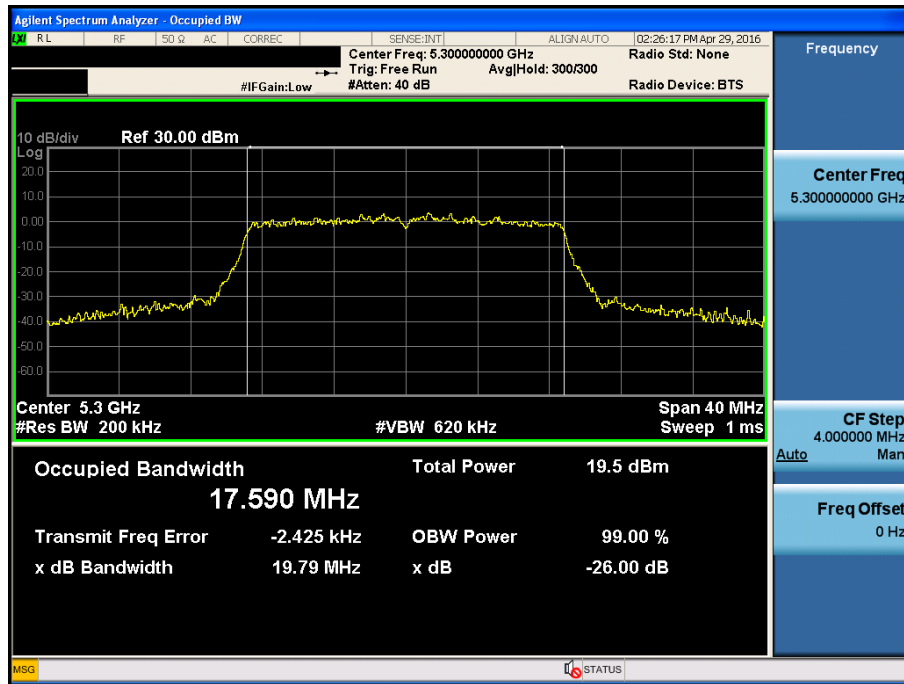
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.52



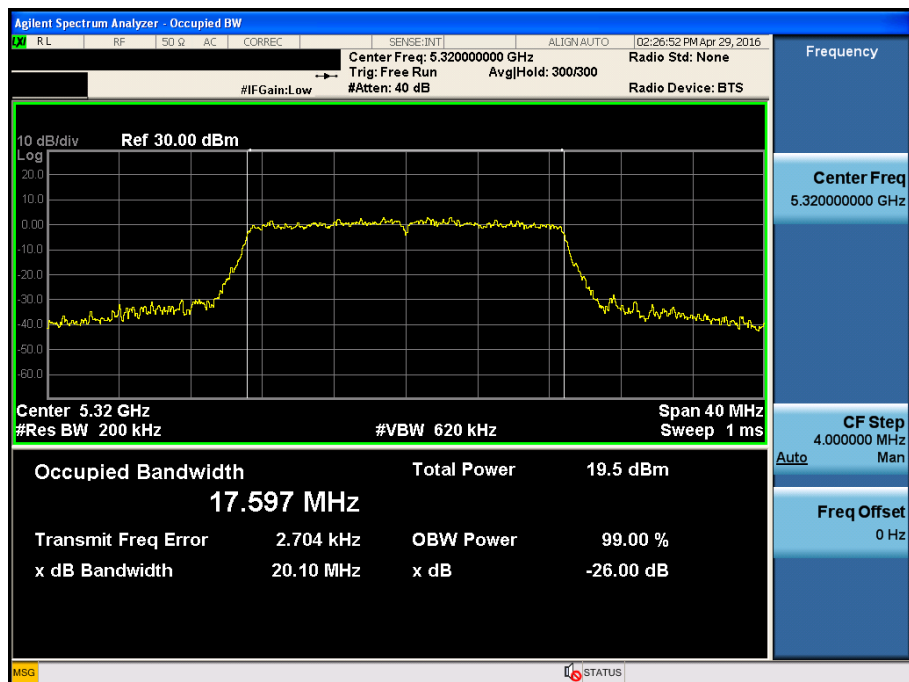
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.60



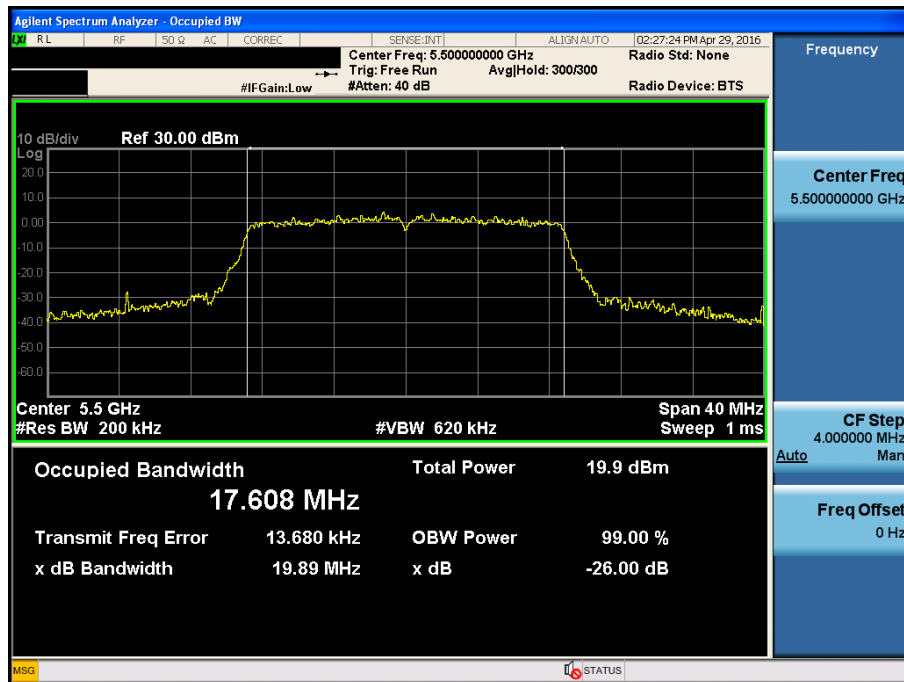
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.64



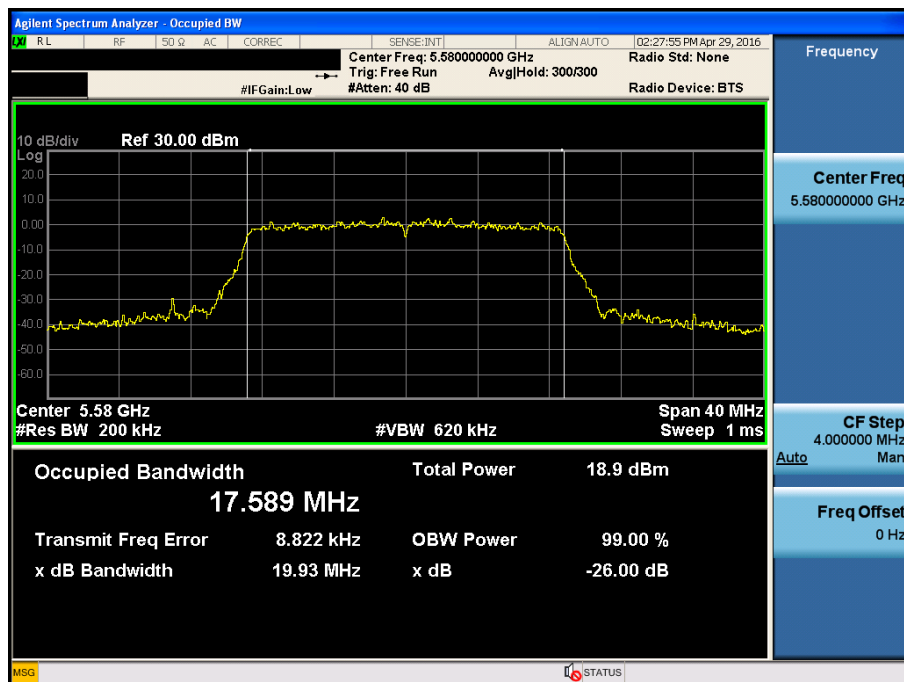
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.100



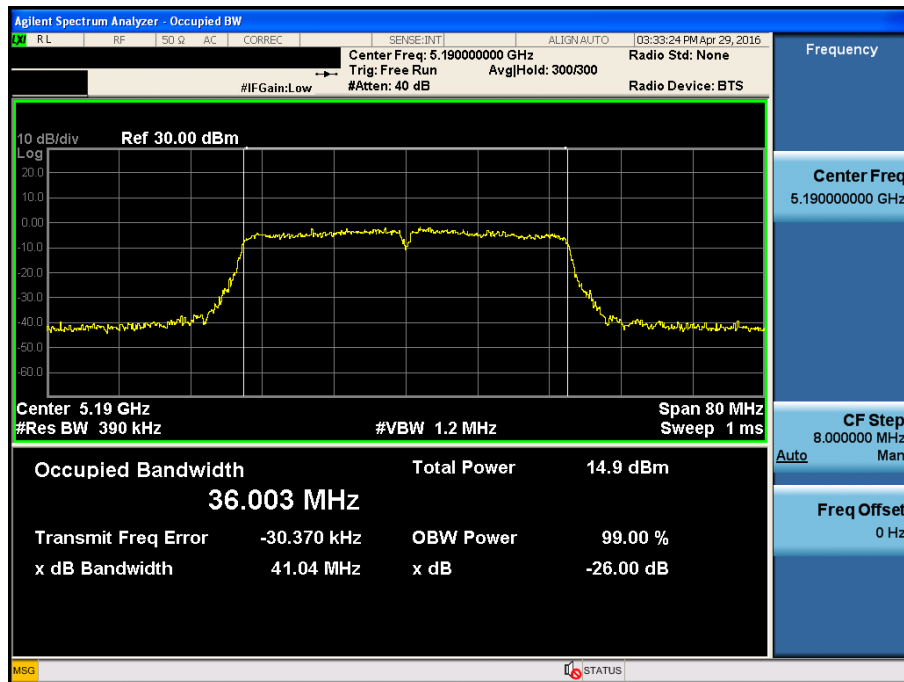
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.116



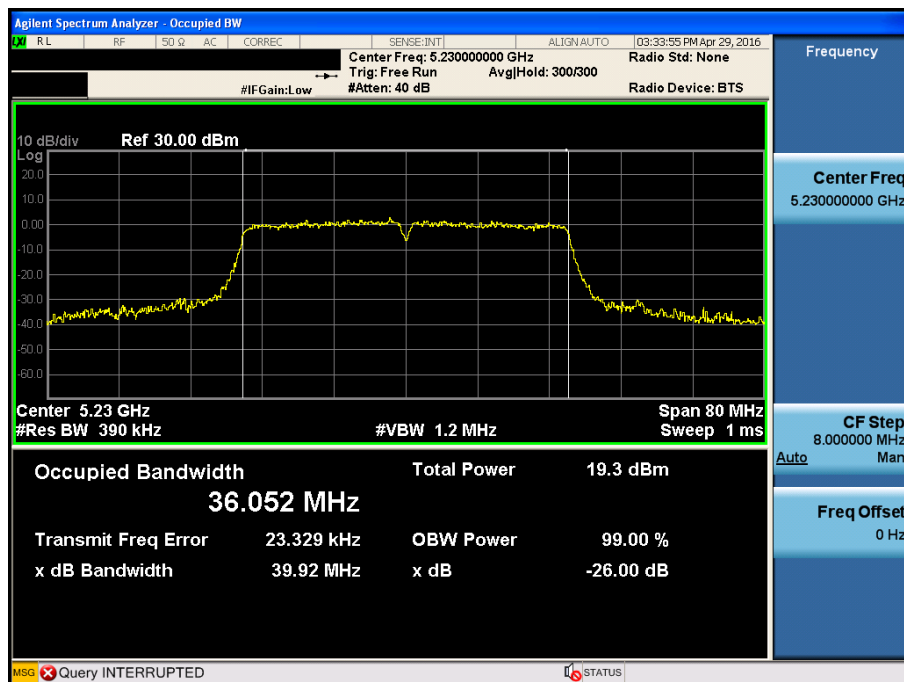
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.38



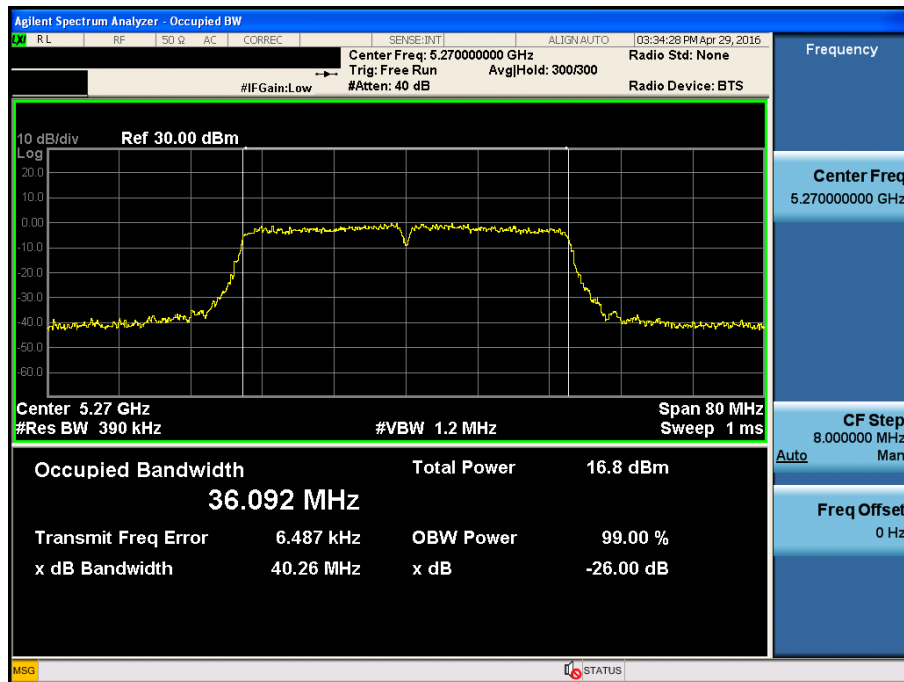
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.46



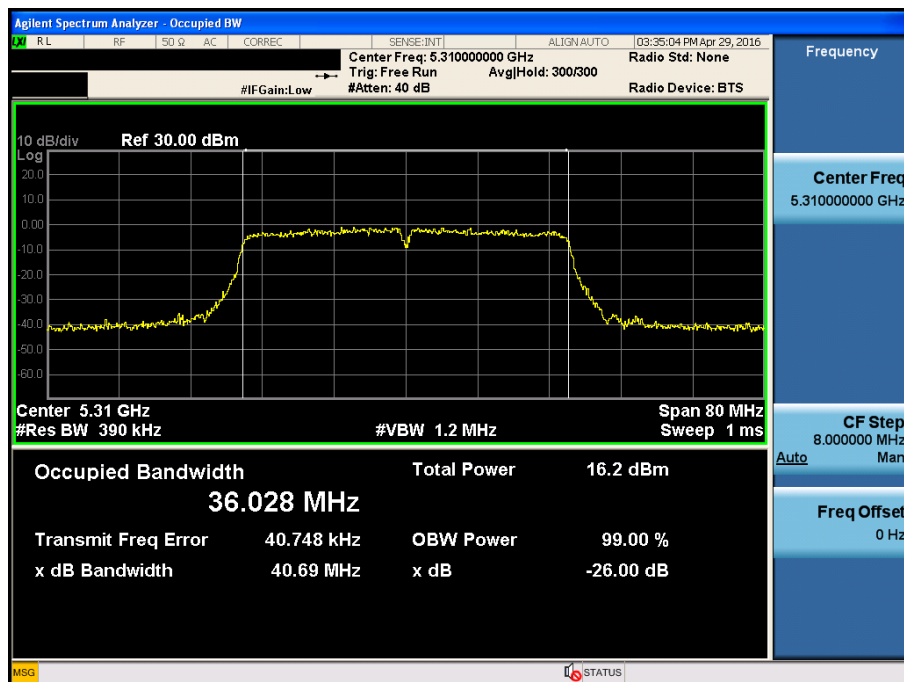
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.54



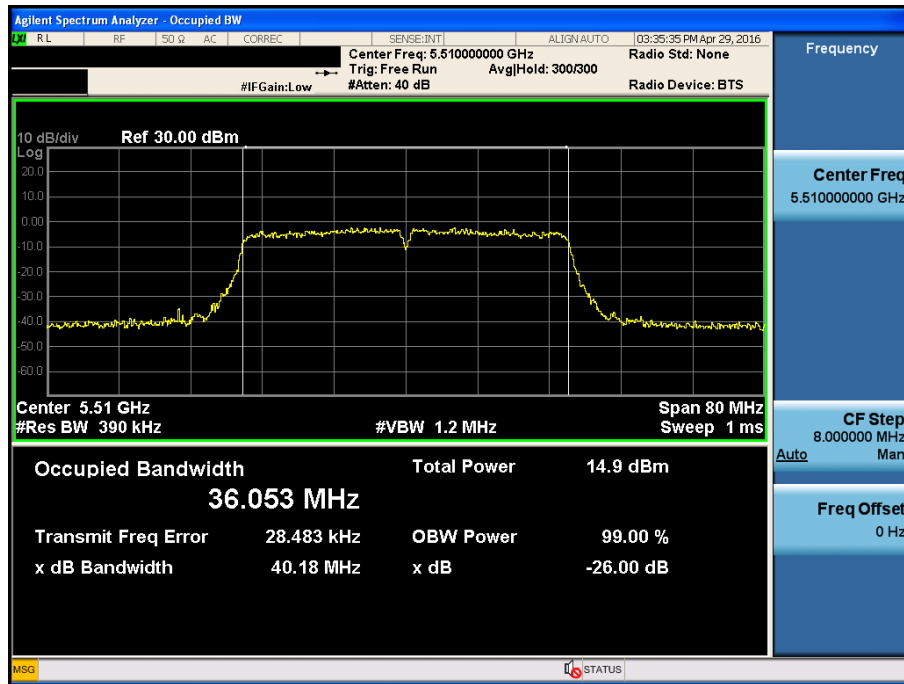
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.62



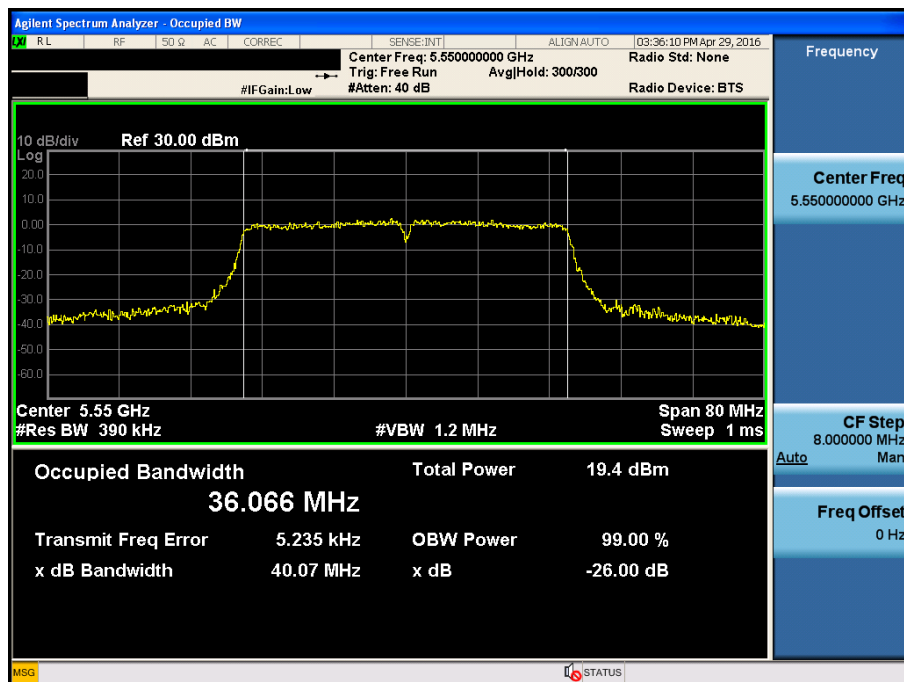
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.102



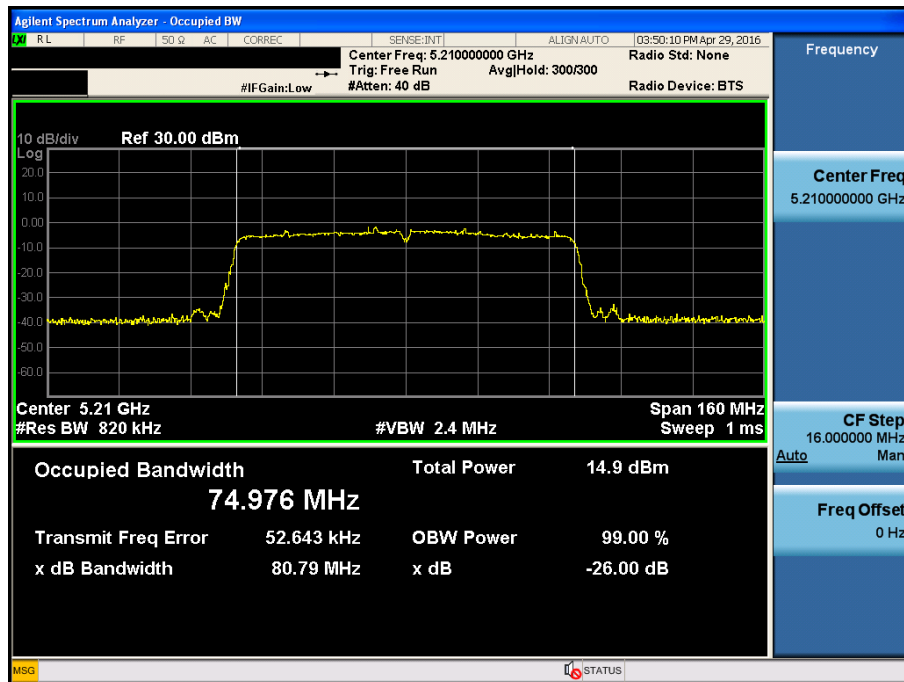
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.110



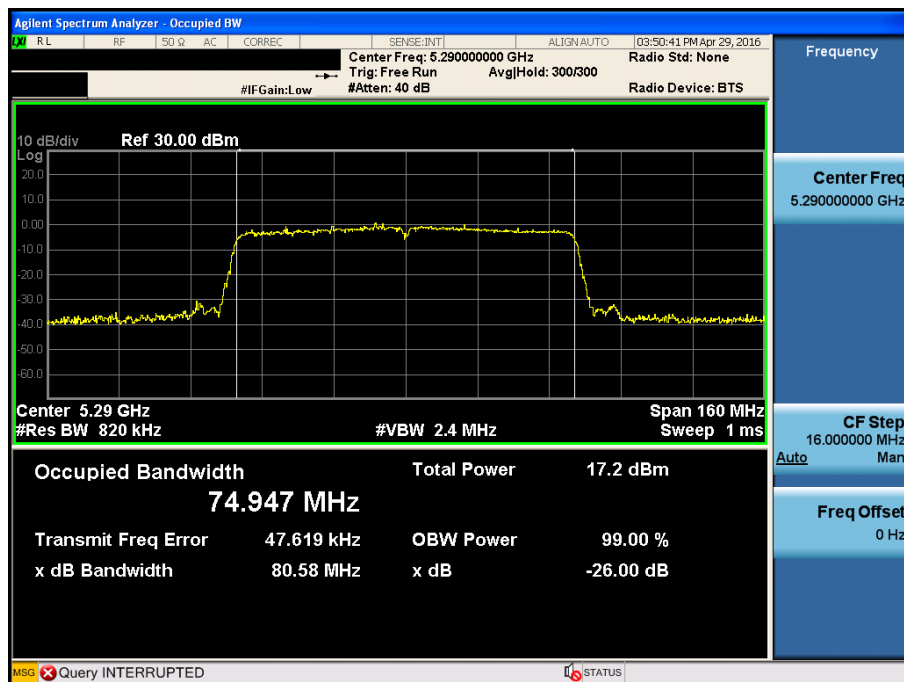
26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.42



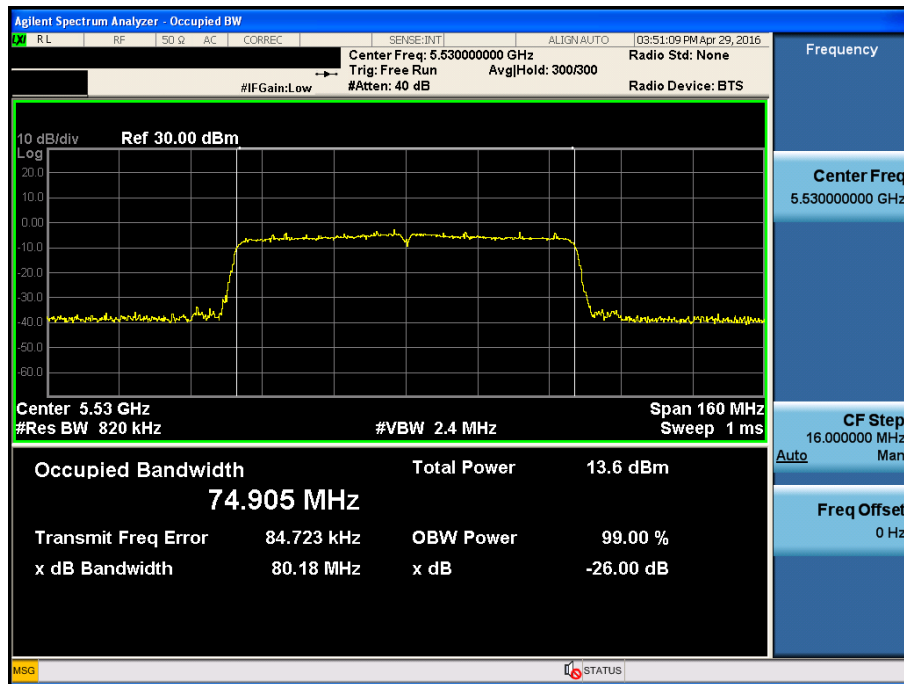
26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.58



26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.106



26 dB Bandwidth

Test Mode: 802.11a & ANT 2 & Ch.144



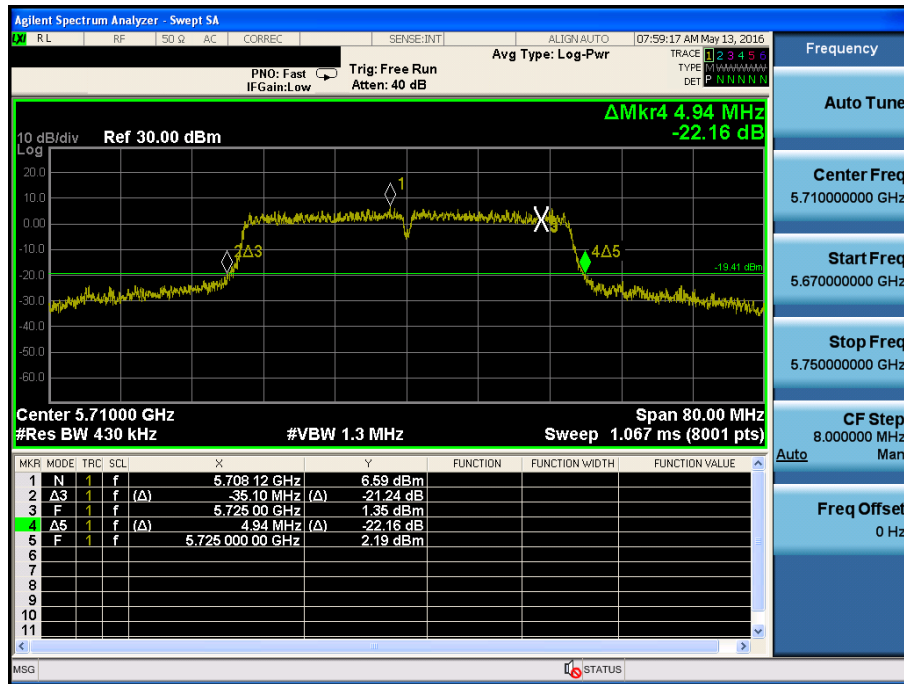
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 2 & Ch.144



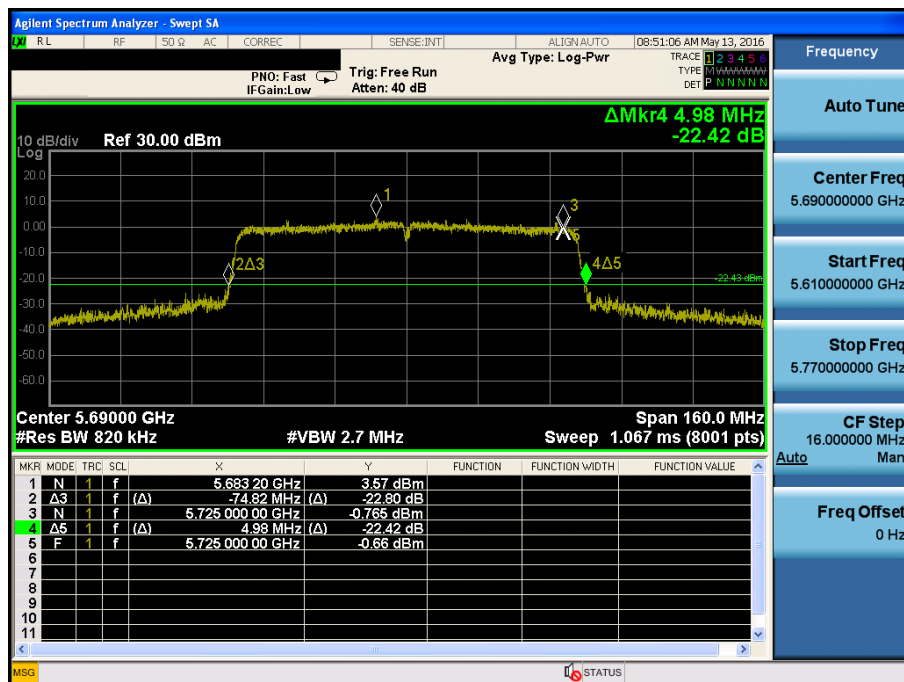
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 2 & Ch.142



26 dB Bandwidth

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.138

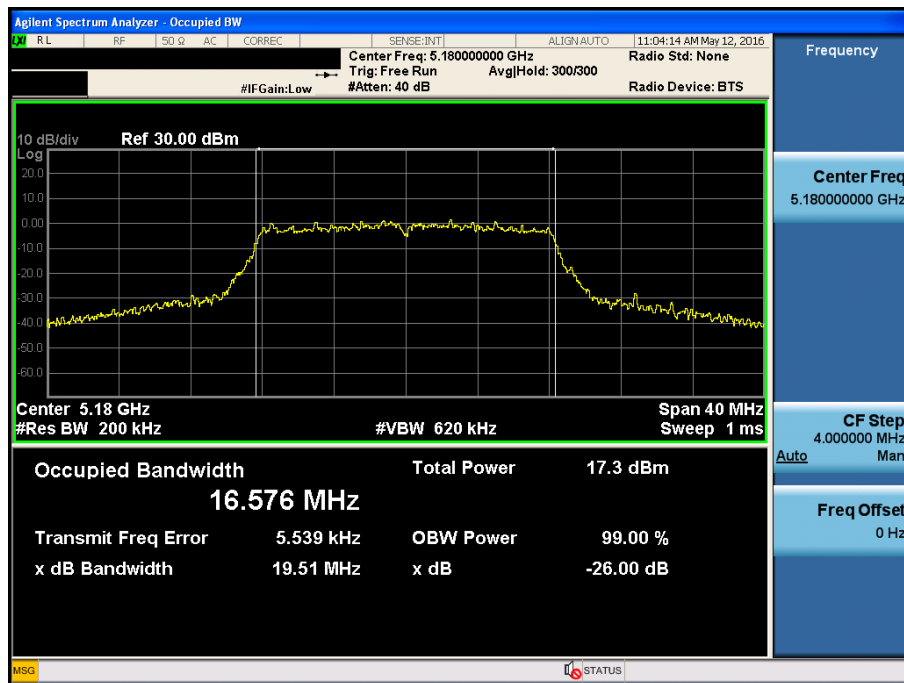


■ Result Plots

Multiple Transmit

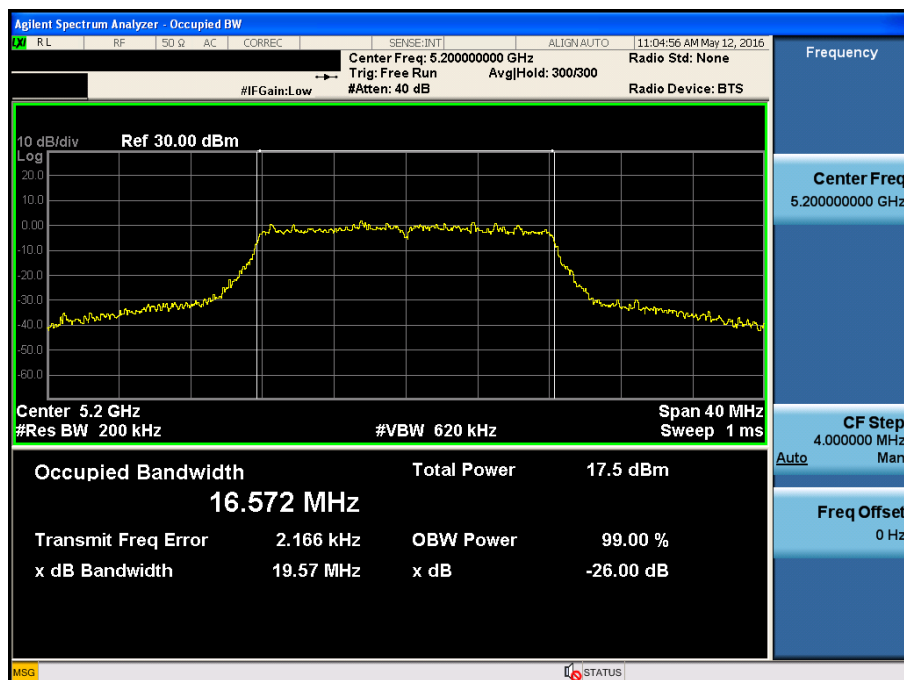
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.36



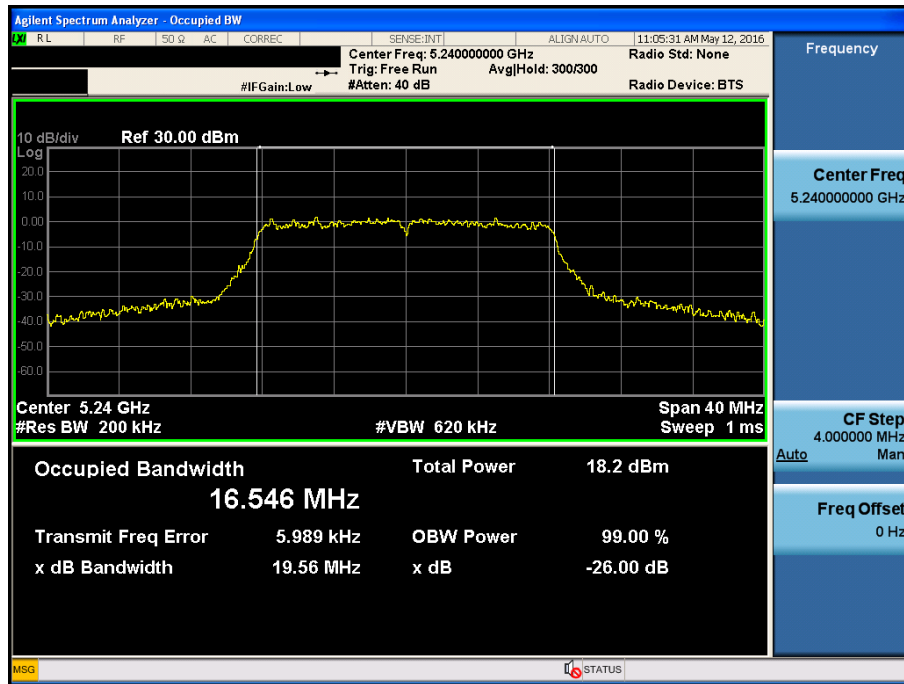
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.40



26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.48



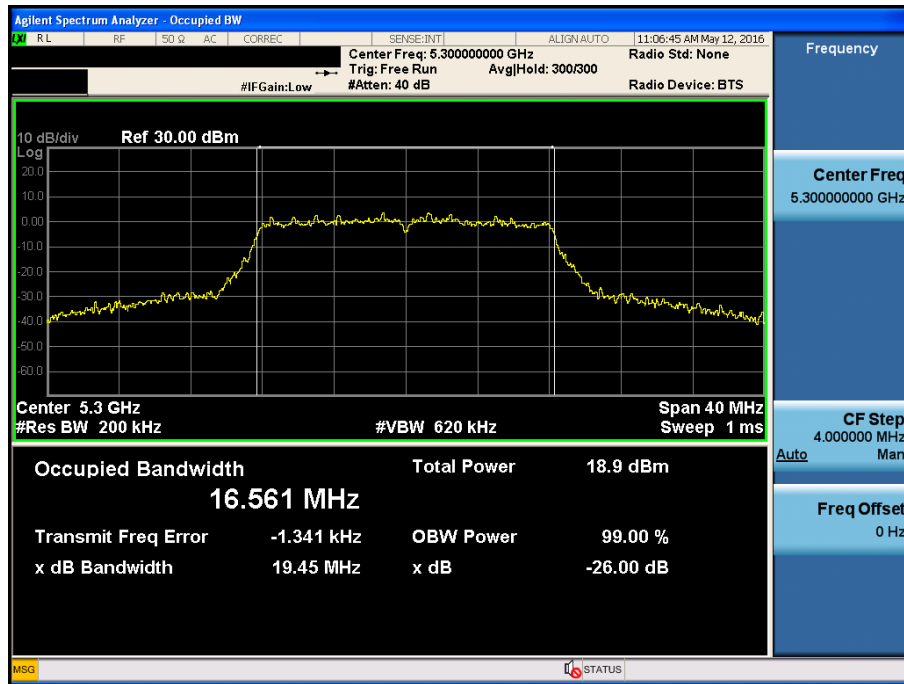
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.52



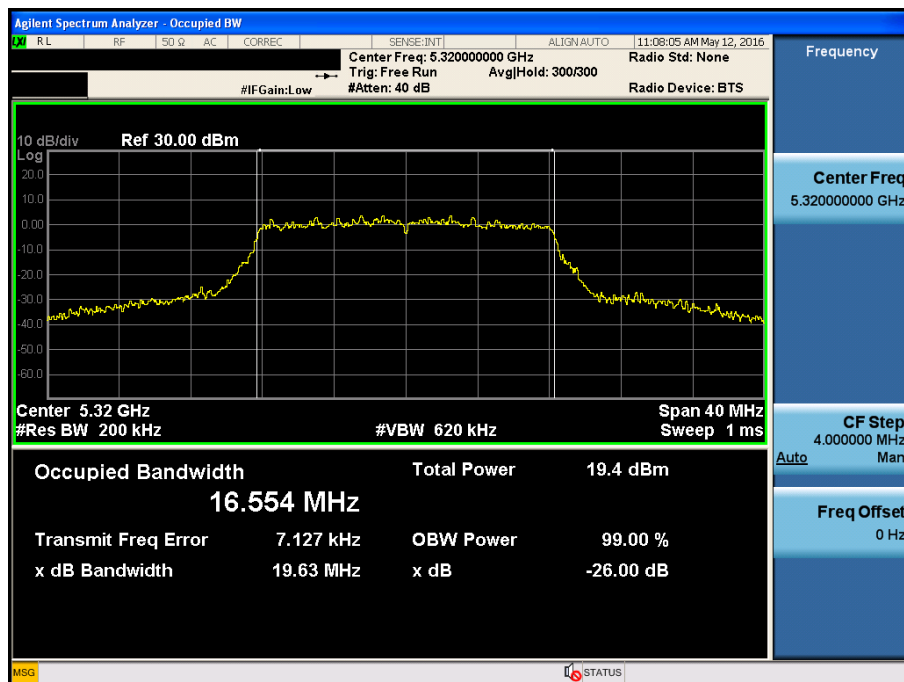
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.60



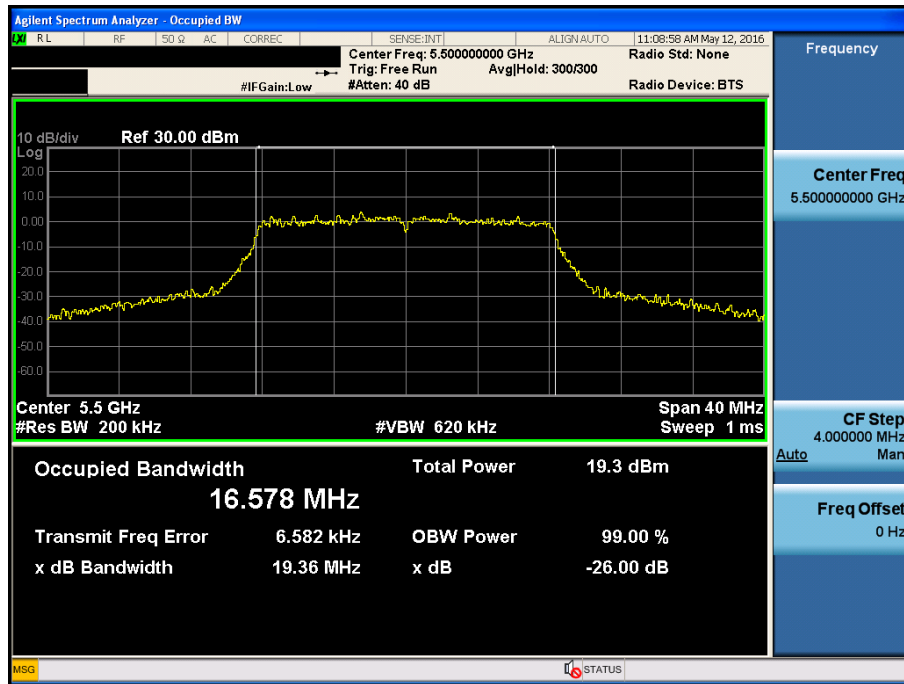
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.64



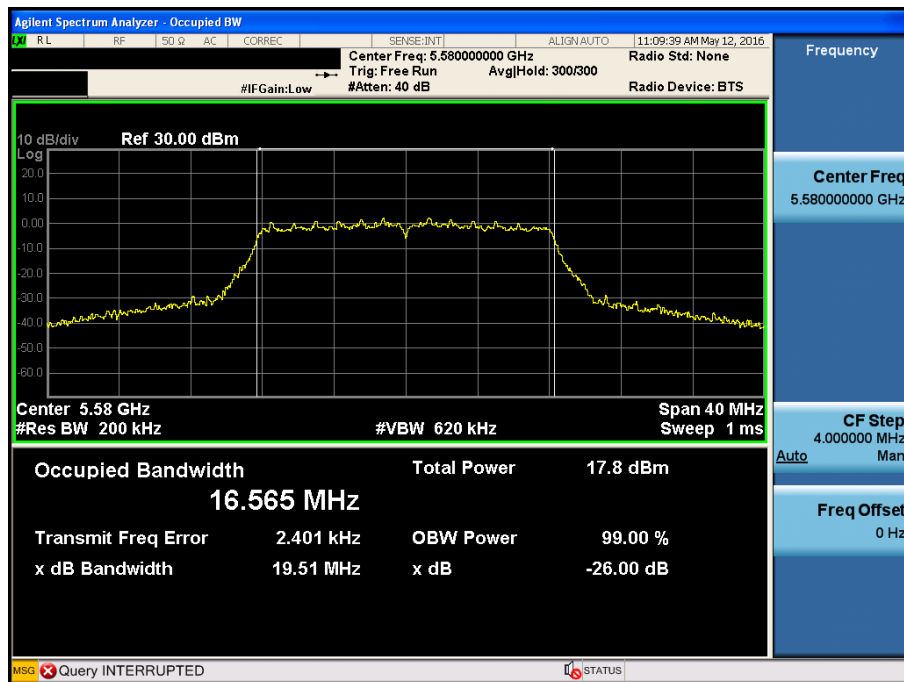
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.100



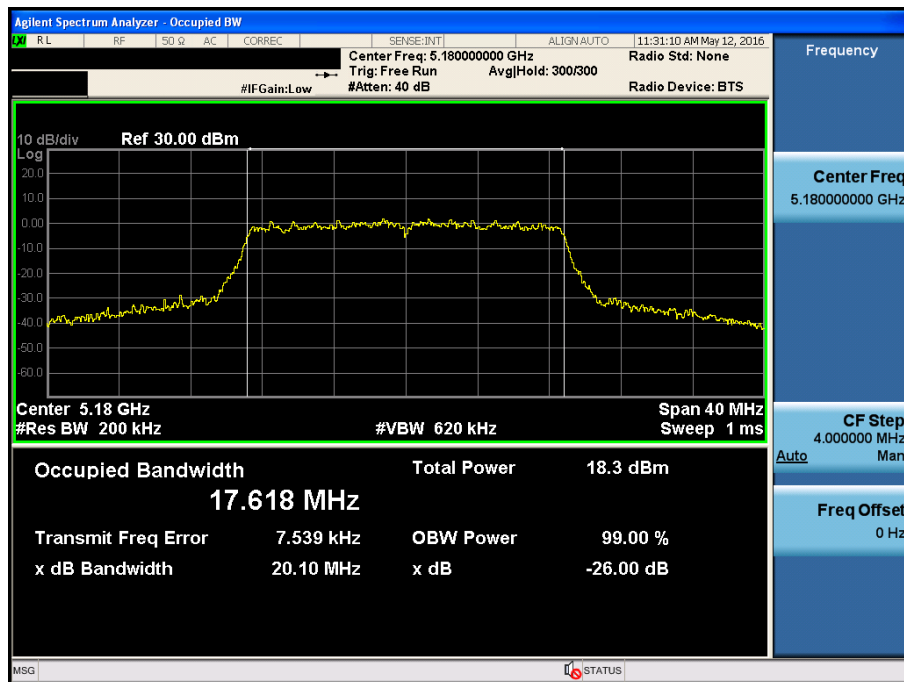
26 dB Bandwidth

Test Mode: 802.11a & ANT 1 & Ch.116



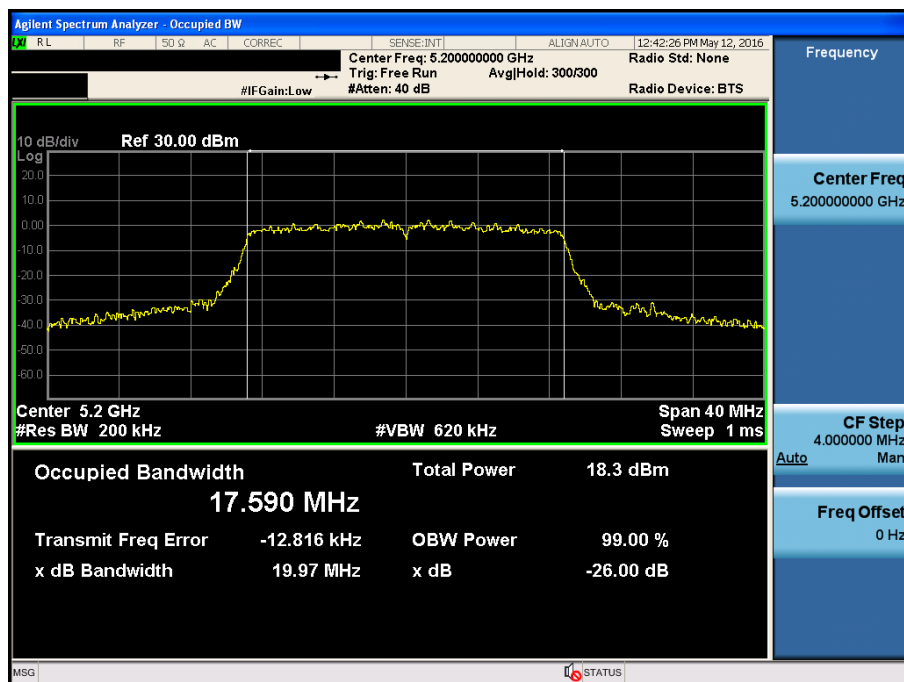
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.36



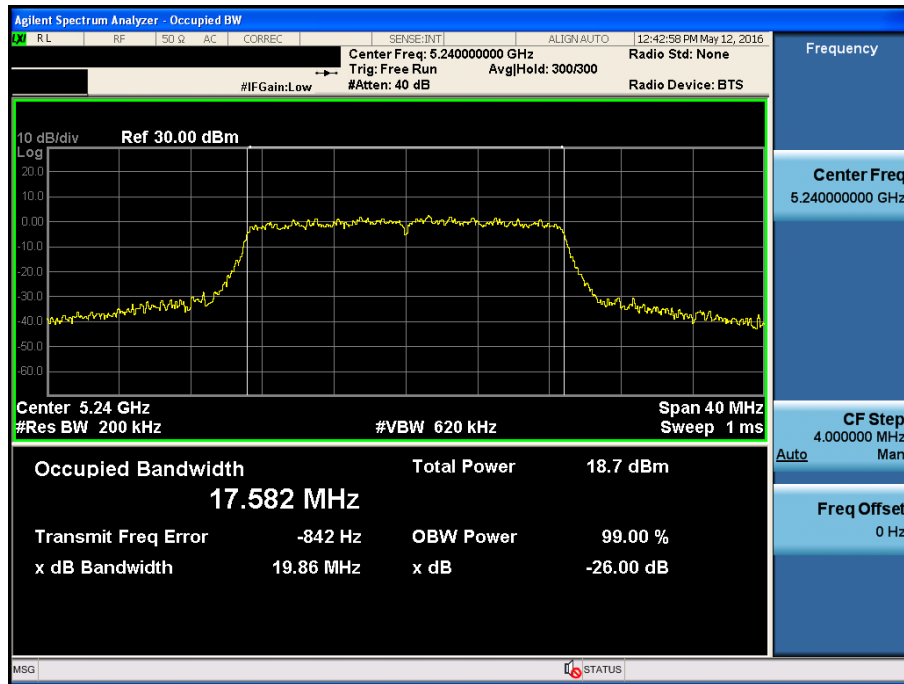
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.40



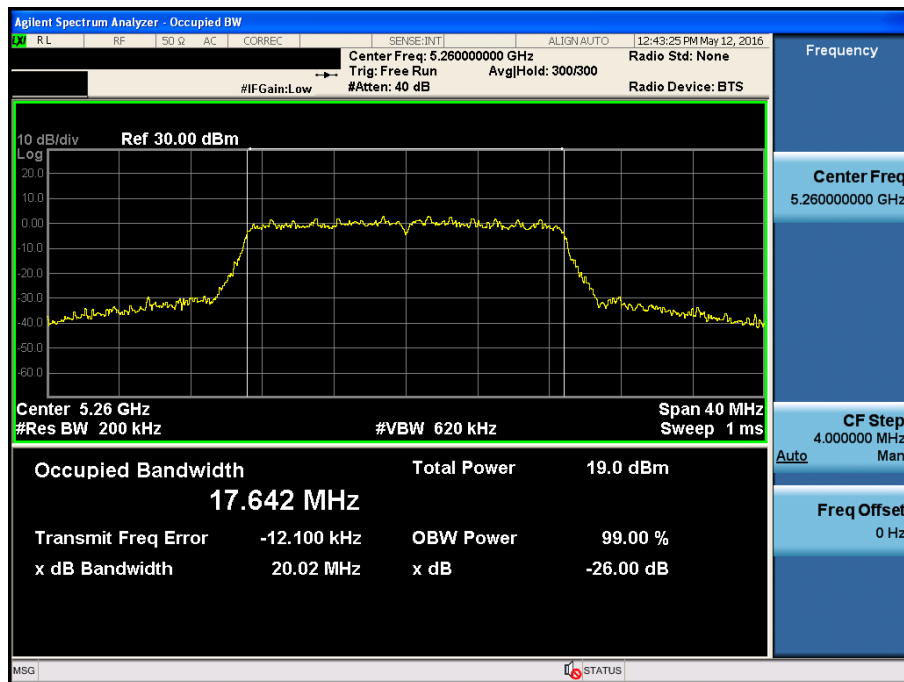
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.48



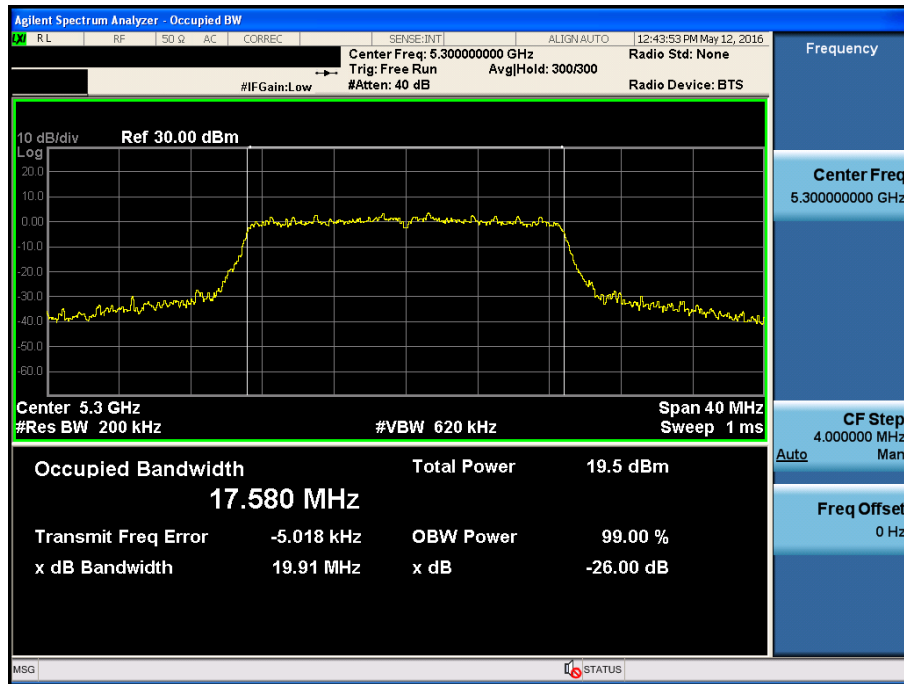
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.52



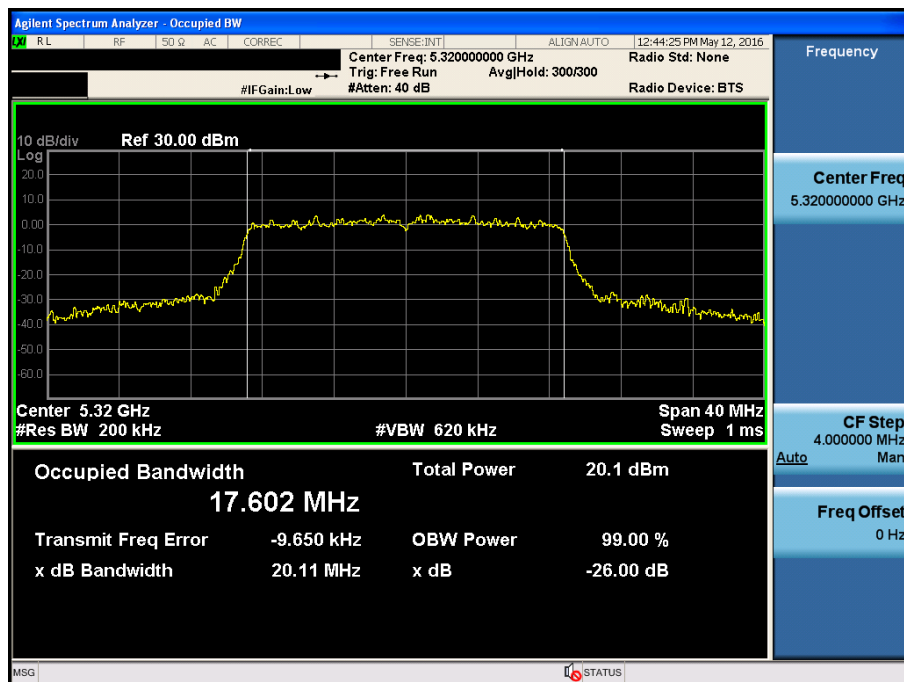
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.60



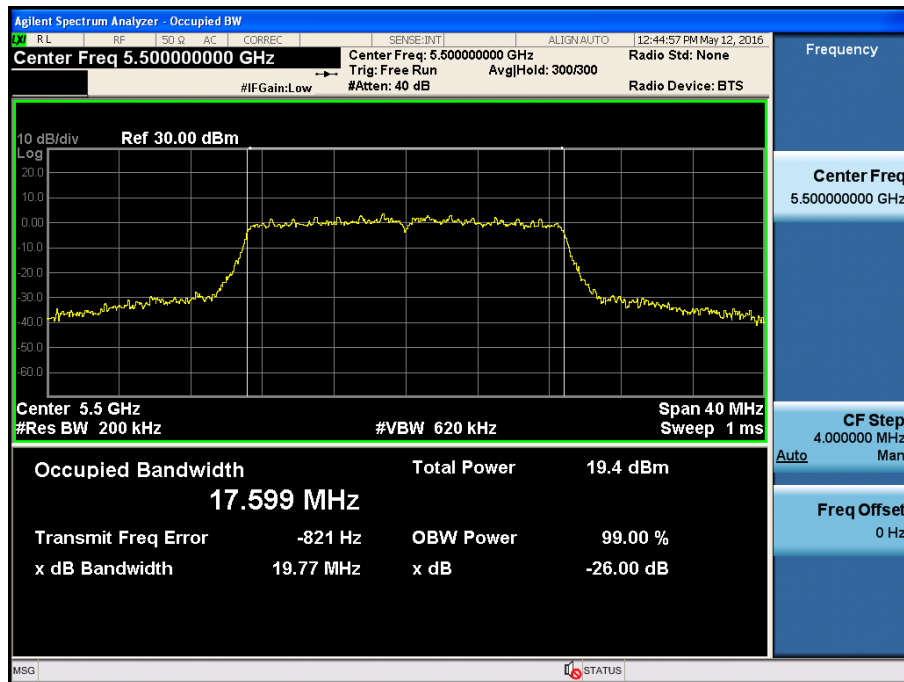
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.64



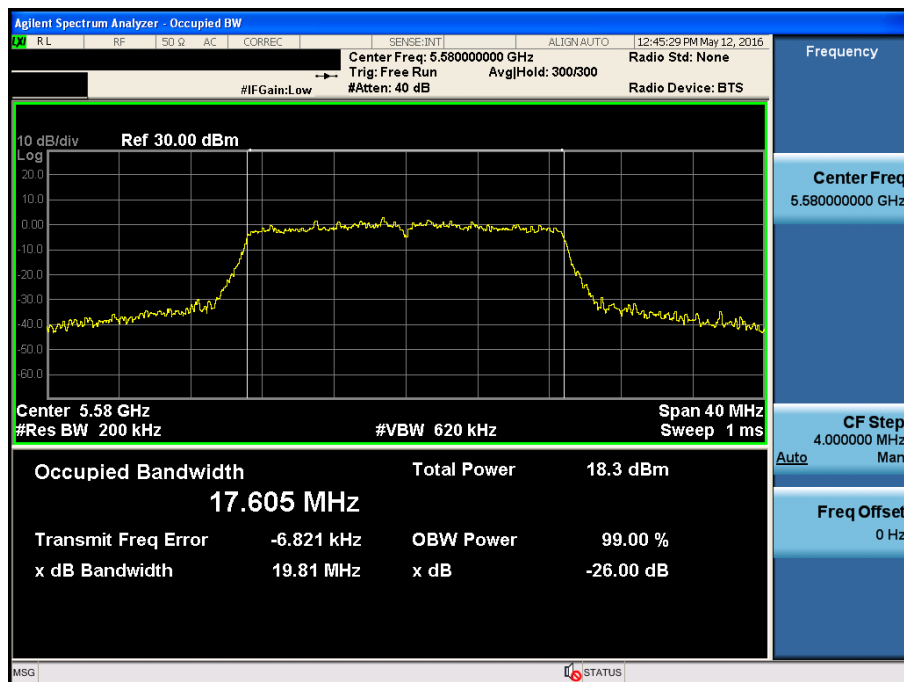
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.100



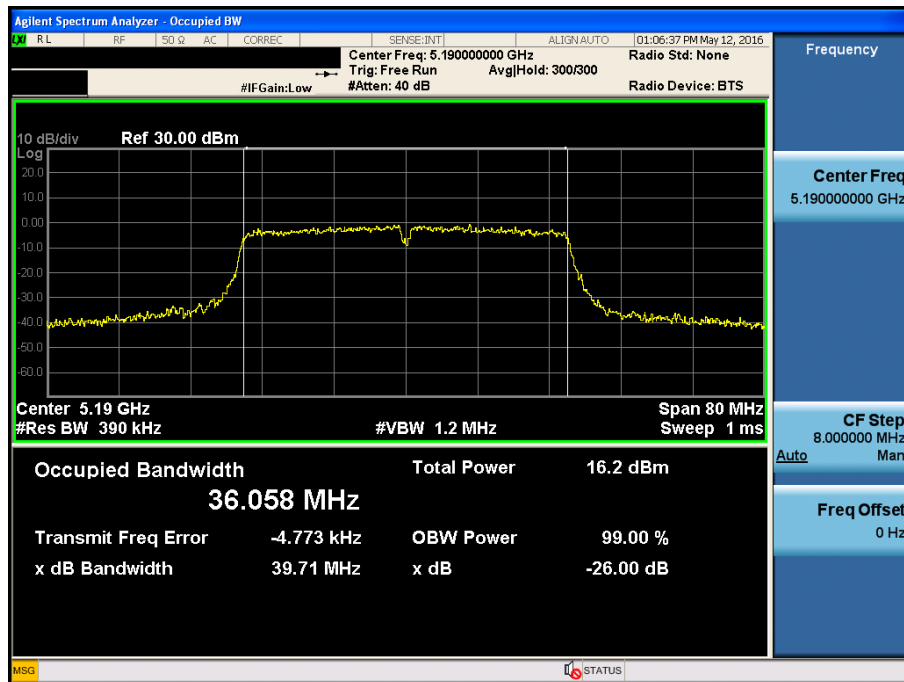
26 dB Bandwidth

Test Mode: 802.11n HT20 & ANT 1 & Ch.116



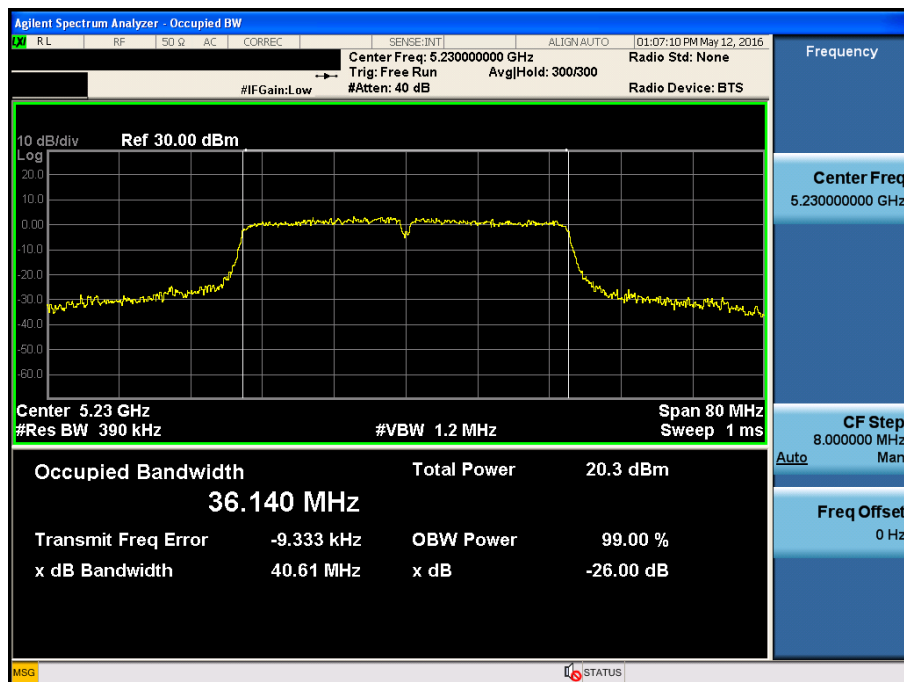
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.38



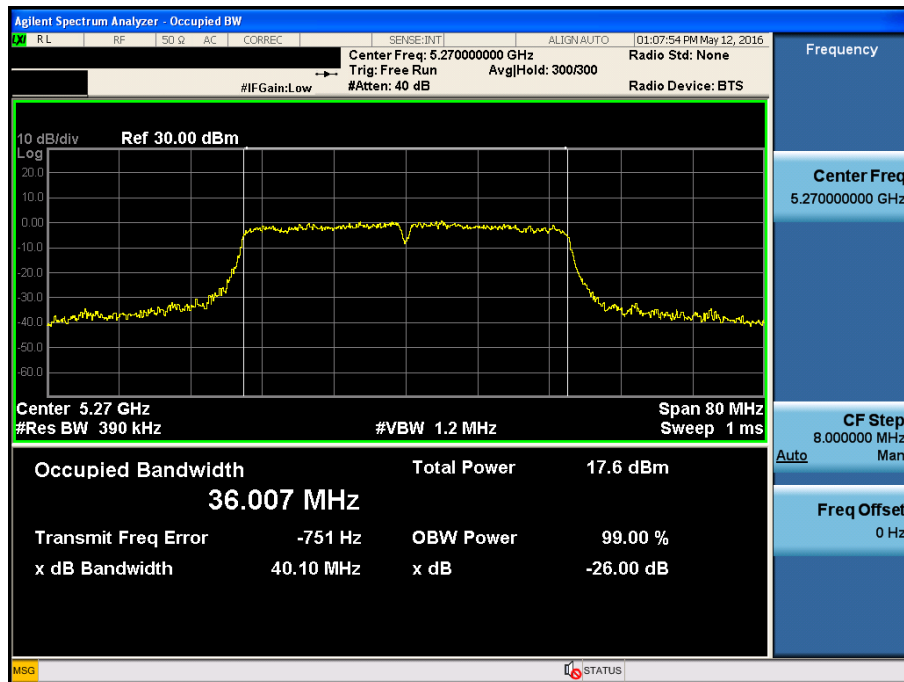
26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.46



26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.54



26 dB Bandwidth

Test Mode: 802.11n HT40 & ANT 1 & Ch.62

