

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

Product Name: Tablet Computer
Brand Name: FUJITSU
Model No.: R727
Model Difference: N/A
FCC ID: EJE-WB0102
IC: 337J-WB0102
Report No.: E2/2016/A0074
Issue Date: Mar. 15, 2017
FCC Rule Part: §15.407
IC Rule Part: RSS-247 issue 2 Feb. 2017

Prepared for: FUJITSU LIMITED
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Kawasaki-shi, Kanagawa, 211-8588, Japan

Prepared by: SGS Taiwan Ltd.
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Taoyuan City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: FUJITSU LIMITED
4-1-1, Kamikodanaka, Nakahara-ku,
Kawasaki-shi, Kanagawa, 211-8588, Japan

Product Name: Tablet Computer

Brand Name: FUJITSU

Model No.: R727

Model Difference: N/A

FCC ID: EJE WB0102

IC: 337J-WB0102

File Number: E2/2016/A0074

Date of test: Nov. 01, 2016 ~ Nov. 14, 2016

Date of EUT Received: Nov. 01, 2016

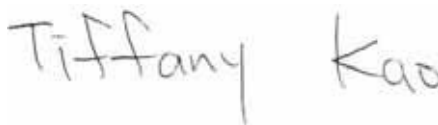
We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

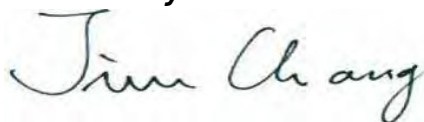
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Mar. 15, 2017

Jerry Lu / Sr. Engineer**Prepared By:****Date:**

Mar. 15, 2017

Tiffany Kao / Clerk**Approved By:****Date:**

Mar. 15, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/A0074	Rev.00	Initial creation of document	Nov. 17, 2016
E2/2016/A0074	Rev.01	Add EUT components table	Fed. 09, 2017
E2/2016/A0074	Rev.02	RSS-247 updated to issue 2	Mar. 09, 2017
E2/2016/A0074	Rev.03	Updated battery information	Mar. 15, 2017

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Tablet Computer	
Brand Name:	FUJITSU	
Model No.:	R727	
Model Difference:	N/A	
BT / WLAN Module:	Model No.: 8265D2W, Supplier: Intel Mobile Communications France S.A.S	
NFC Module:	Model No.: RC-S650/IA, Supplier: Sony Corporation	
Product SW/HW version:	10.0.14393 Build 14393 / AX1	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.6Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter	
	Battery:	Model No.: FPB0328; Supplier: Getac
	Adapter:	Model No.: ADP-65MD A, Supplier: Delta

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology
11a	5150~5250	4	13.47 dBm (Avg.) / 21.63 dBm (EIRP)	OFDM
	5250~5350	4	13.36 dBm / 25.35 dBm (EIRP)	
	5470~5725	12	13.43 dBm / 13.96 dBm (EIRP)	
	5725-5850	5	13.48 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 16.41 dBm (Avg.) / 19.30 dBm (EIRP) (Worst Case)	OFDM
	HT20 / VHT20 5250~5350	4	HT: 16.44 dBm / 20.13 dBm (EIRP) (Worst Case)	
	HT20 / VHT20 5470~5725	12	HT: 16.47 dBm / 20.01 dBm (EIRP) (Worst Case)	
	VHT20 5720~5720	1	HT: 15.02 dBm / 20.05 dBm (EIRP)	
	HT20 / VHT20 5725-5850	5	HT: 16.44 dBm (Worst Case)	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 16.49 dBm (Avg.) / 19.38 dBm (EIRP) (Worst Case)	OFDM
	HT40 / VHT40 5250~5350	2	HT: 16.46 dBm / 20.15 dBm (EIRP) (Worst Case)	
	HT40 / VHT40 5470~5725	6	HT: 16.47 dBm / 20.01 dBm (EIRP) (Worst Case)	
	VHT40 5710~5710	1	HT: 15.63dBm / 19.17 dBm (EIRP)	
	HT40 / VHT40 5725-5850	2	HT: 16.48 dBm (Worst Case)	

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11ac_80M	VHT80 5150~5250	1	16.48 dBm (Avg.) / 19.37 dBm (EIRP)	OFDM
	VHT80 5250~5350	1	12.96 dBm / 16.65 dBm (EIRP)	
	VHT80 5470~5725	3	16.47 dBm / 18.02 dBm (EIRP)	
	VHT80 5725-5850	1	16.44dBm	
Antenna Designation		PIFA Antenna Main: Partl No.: WA-P-LB-03-059, Supplier: INPAQ 5GHz Gain: -0.12dBi (5150MHz-5250MHz) 5GHz Gain: 0.68dBi (5250MHz-5350MHz) 5GHz Gain: 0.53dBi (5470MHz-5725MHz) 5GHz Gain: 2.02dBi (5725MHz-5850MHz) Aux: Part No.: WA-P-LB-02-301, Supplier: INPAQ 5GHz Gain: -0.97dBi (5150MHz-5250MHz) 5GHz Gain: -0.63dBi (5250MHz-5350MHz) 5GHz Gain: -0.99dBi (5470MHz-5725MHz) 5GHz Gain: -0.16dBi (5725MHz-5850MHz)		
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only		
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps		

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*Descriptions of EUT Components

Part Name	Description	Supplier	Supplier P/N
CPU	Kaby Lake H-0 2c BGA 2.8GHz 15W (I7 VPRO), i7-7600U	Intel	FJ8067702739628
Memory	LPDRAM LPDDR3-1866 8GB, 1.2V/1.8V	Samsung	K4E6E304EB-EGCF
LCD Panel	12.5"FHD 400cd/m2	Samsung	LTN125HL04-702
Touch Panel	Touch Panel	TPK	TBD54
SSD	512GB, M.2, SATAIII, FDE	Samsung	MZNTN512HDJH-00007
CCD	Front Camera, 2M Pixels	Liteon	5SF206T2
CCD	Rear Camera, 5M Pixels	Chicony	CJAF52120004900LH
Keyboard unit	for FPCA (US)	Inventec	29-2AZ01F311
Active Pen	Active Pen	Waltop	ACS-03
Docking Station	Docking Station Unit	Fujitsu	FPCPR336

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Wi-Fi 802.11abgn & ac with Bluetooth features, and below is details of information.

Product Feature	
Product Name:	Tablet Computer
Brand Name:	FUJITSU
Model No.:	R727
Model Difference:	N/A
FCC ID:	EJE WB0102
IC:	337J-WB0102
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.2 dual mode

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

RSS-247 issue 2 Feb. 2017

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

Note:

All test items have been performed and record as per the above standards.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m 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 transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 2.13dB, and 10dB attenuator (SISO) and cable loss 5.13dB, and 10dB attenuator (MIMO).

SISO mode offset

= RF cable loss (dB)+ attenuation factor(dB)=12.13(dB)

MIMO mode offset

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(N_{ANT}) dB =15.13(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & AC Power Line Conducted Emission

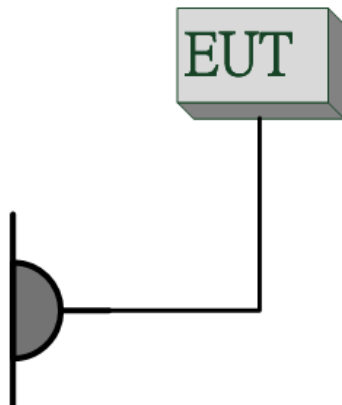


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

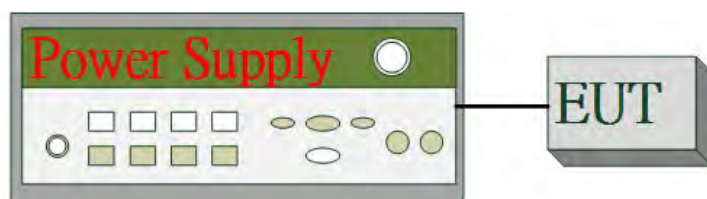


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	Un-Shielded

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3. SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	--	Antenna Requirement	Compliant

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

12 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission. Therefore, 802.11n as the mode of test configuration is chosen to carry out the relevantly mandatory test items.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

Remark: The device will not operate in 5600~5650MHz band for IC.

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150 cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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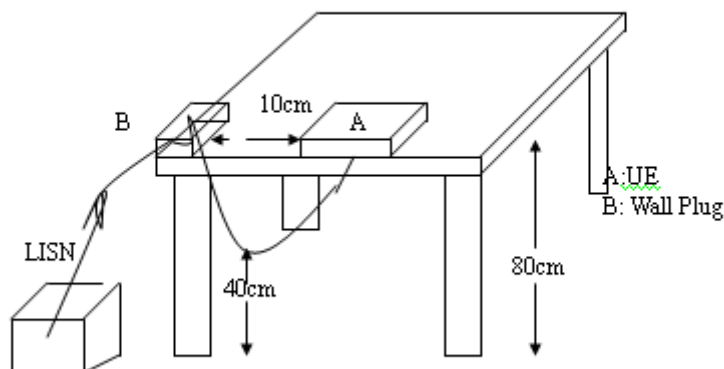
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6.4. Test SET-UP



6.5. Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6. Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Nov. 08, 2016
Temperature:	20		

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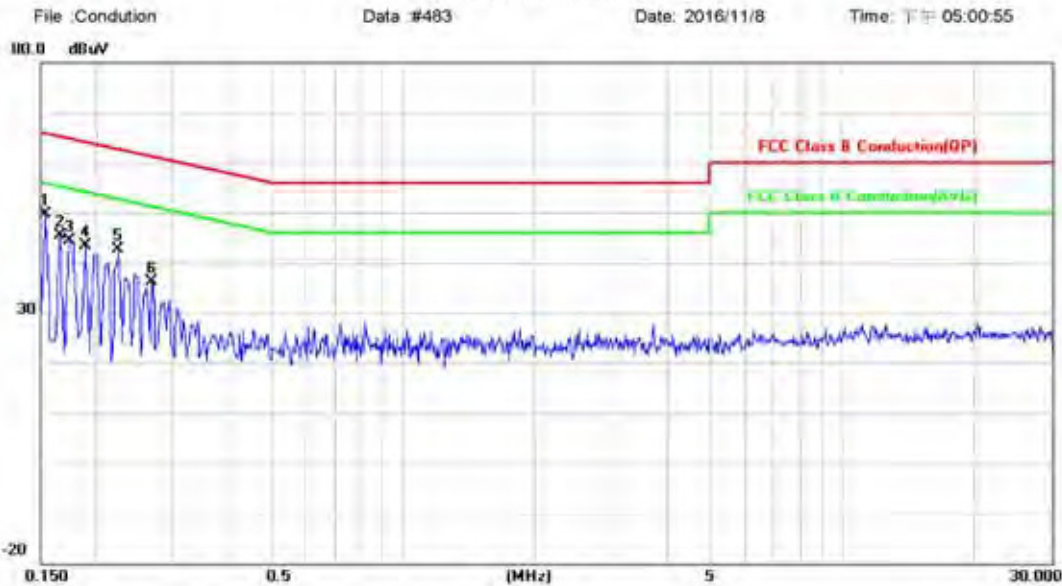
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Site : Conduction Room Phase: **N** Temperature: 25 ℃
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 63 %
Mode: 英業達 ADP-65MD A
Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1540	30.01	19.73	49.74	65.78	-16.04	peak	
2		0.1660	25.75	19.73	45.48	65.16	-19.68	peak	
3		0.1740	24.72	19.73	44.45	64.77	-20.32	peak	
4		0.1900	23.61	19.72	43.33	64.04	-20.71	peak	
5		0.2260	22.97	19.74	42.71	62.60	-19.89	peak	
6		0.2700	16.29	19.77	36.06	61.12	-25.06	peak	

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7. DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) $= 10 \cdot \log (1/\text{Duty})$
802.11a	98.60	0.06
802.11n_20	84.30	0.74
802.11n_40	83.81	0.77
802.11ac_80	82.69	0.83

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.986) = 0.06$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.843) = 0.74$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.8381) = 0.77$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.8269) = 0.83$$

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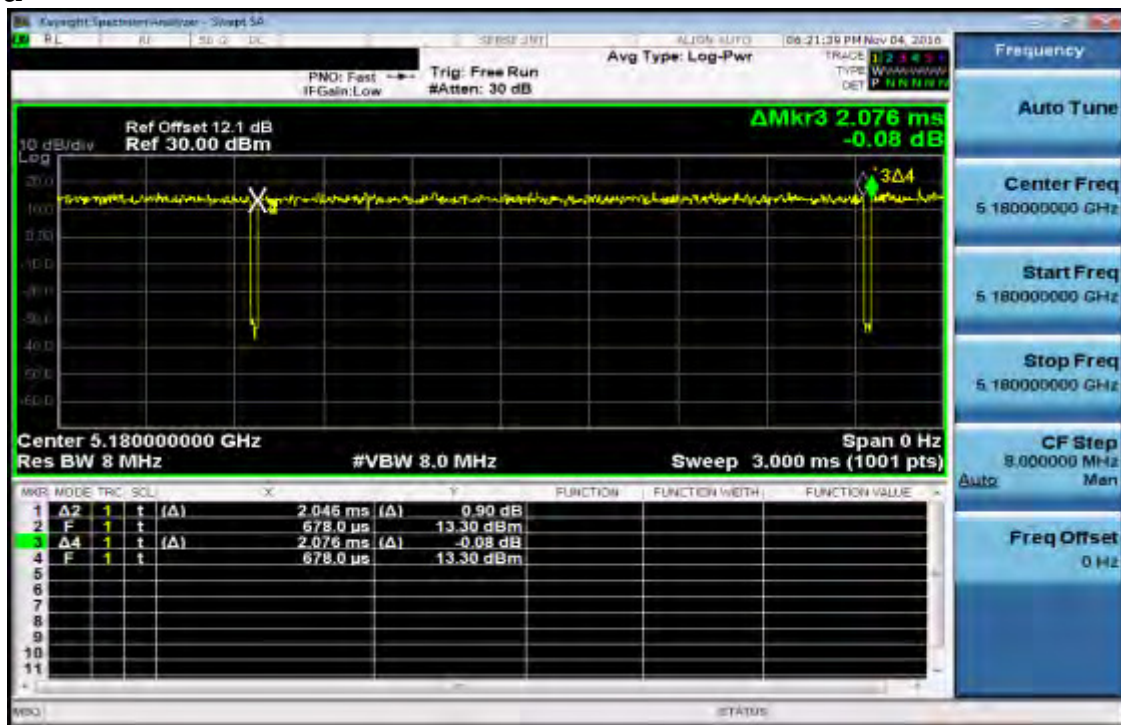
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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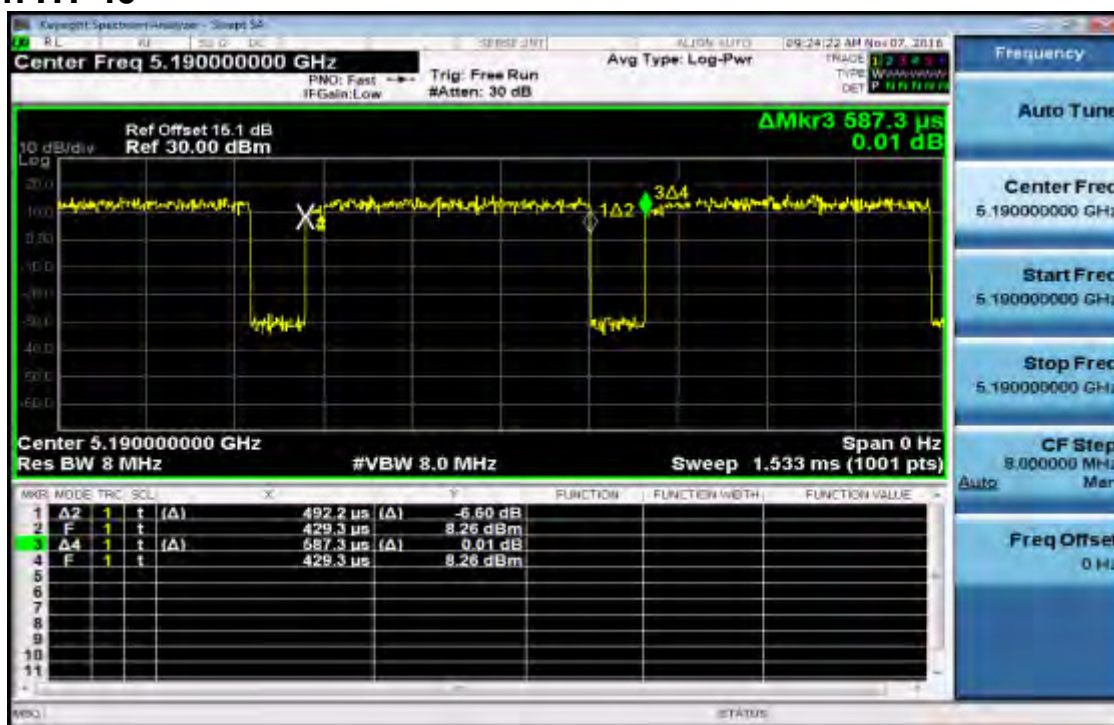
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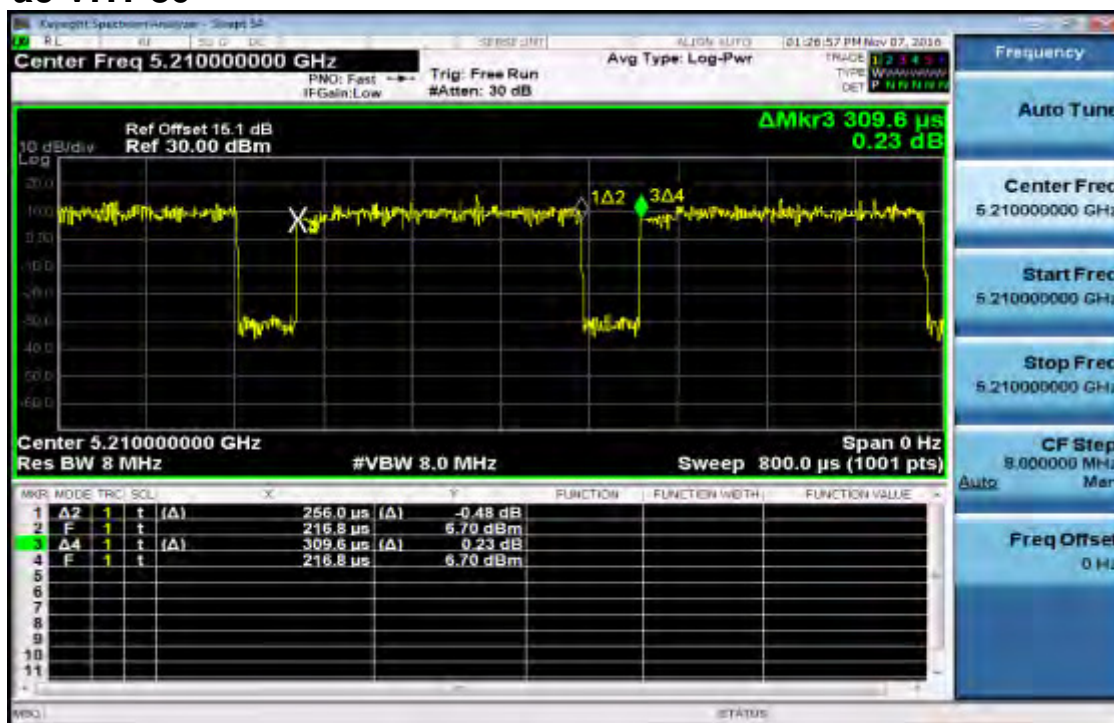
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802.11n HT 40



802.11 ac VHT 80



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

Note: For the overlapped channels between U-NII-2C and U-NII-3 bands, and according to FCC KDB 644545 D03, the boundary frequency between the bands is used as one edge for defining the portion of the 26dB BW that falls within a particular U-NII band. This rule is only applicable for the 26dB BW and for those channels marked as overlapped.

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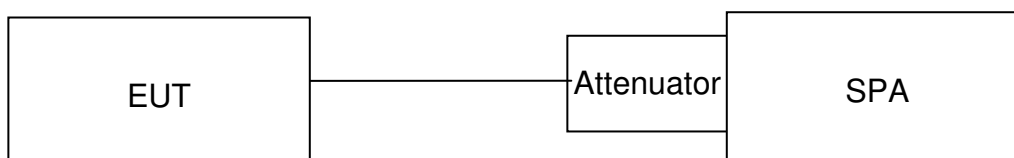
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBDA	RFLT2W1G1 8G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.99	13.220
5220	20.00	13.010
5240	20.05	13.021
5260	19.46	12.891
5300	20.09	13.030
5320	19.65	12.934
5500	20.05	13.021
5580	19.52	12.905
5700	20.05	13.021

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.83	13.187
5220	20.71	13.162
5240	21.88	13.400
5260	20.66	13.151
5300	20.71	13.162
5320	21.23	13.269
5500	20.70	13.160
5580	20.98	13.218
5700	20.70	13.160
5720	21.11	13.245

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.90	12.989
5220	20.90	13.201
5240	21.89	13.402
5260	21.89	13.402
5300	20.71	13.162
5320	21.62	13.349
5500	21.05	13.233
5580	19.85	12.978
5700	20.96	13.214
5700	20.21	13.056

802.11n HT20_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	15.294	11.85
5720 (UNII-3)	5.815	7.65

802.11n HT20_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	14.642	11.66
5720 (UNII-3)	5.567	7.46

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802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	42.82	16.316
5230	42.26	16.259
5270	42.79	16.313
5310	42.30	16.263
5510	42.56	16.290
5550	42.48	16.282
5670	42.90	16.325
5710	40.78	16.104

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.48	16.383
5230	39.47	15.963
5270	40.38	16.062
5310	41.71	16.202
5510	42.23	16.256
5550	39.71	15.989
5670	41.60	16.191
5710	41.76	16.208

802.11n HT40_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	33.952	15.31
5710 (UNII-3)	6.827	8.34

802.11n HT40_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	34.768	15.41
5710 (UNII-3)	6.991	8.45

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	100.00	20.000
5290	79.51	19.004
5530	77.03	18.867
5610	79.79	19.019
5690	81.31	19.101

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.08	18.869
5290	86.17	19.354
5530	79.26	18.991
5610	77.05	18.868
5690	79.84	19.022

802.11ac VHT80_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	72.638	18.61
5690 (UNII-3)	8.671	9.38

802.11ac VHT80_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	71.234	18.53
5690 (UNII-3)	8.515	9.30

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99% Bandwidth

802.11a_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.437	12.158
5220	16.419	12.153
5240	16.539	12.185
5260	16.294	12.120
5300	16.362	12.138
5320	16.475	12.168
5500	16.345	12.134
5580	16.456	12.163
5700	16.307	12.124

802.11n_HT20_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.783	12.500
5220	17.757	12.494
5240	17.648	12.467
5260	17.612	12.458
5300	17.767	12.496
5320	17.764	12.495
5500	17.787	12.501
5580	17.668	12.472
5700	17.666	12.471
5720	15.910	12.017

802.11n_HT20_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.721	12.485
5220	17.793	12.502
5240	17.752	12.492
5260	17.713	12.483
5300	17.667	12.472
5320	17.826	12.511
5500	17.691	12.478
5580	17.582	12.451
5700	17.660	12.470
5720	14.870	11.723

802.11n HT20_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	12.901	11.11
5720 (UNII-3)	4.905	6.91

802.11n HT20_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	12.788	11.07
5720 (UNII-3)	4.862	6.87

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802.11n_HT40_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.168	15.583
5230	36.164	15.583
5270	36.256	15.594
5310	36.058	15.570
5510	36.140	15.580
5550	36.201	15.587
5670	36.139	15.580
5710	36.127	15.578

802.11n_HT40_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.177	15.584
5230	36.083	15.573
5270	36.105	15.576
5310	36.198	15.587
5510	36.010	15.564
5550	36.200	15.587
5670	36.172	15.584
5710	36.046	15.569

802.11n HT40_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	30.078	14.78
5710 (UNII-3)	6.048	7.82

802.11n HT40_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	30.011	14.77
5710 (UNII-3)	6.034	7.81

802.11ac_VHT80_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.260	18.766
5290	75.011	18.751
5530	75.349	18.771
5610	75.447	18.776
5690	75.137	18.759

802.11ac_VHT80_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.227	18.764
5290	75.052	18.754
5530	75.437	18.776
5610	75.233	18.764
5690	75.139	18.759

802.11ac VHT80_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	67.123	18.27
5690 (UNII-3)	8.013	9.04

802.11ac VHT80_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	67.125	18.27
5690 (UNII-3)	8.013	9.04

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6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.00	11.761
5785	14.44	11.596
5825	15.22	11.824

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.84	11.411
5785	13.00	11.139
5825	15.37	11.867

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.31	12.125
5785	15.06	11.778
5825	15.74	11.970

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.12	15.456
5795	35.11	15.454

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.11	15.454
5795	35.15	15.459

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.57	18.608

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	54.30	17.348

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6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Average detector for IC

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.47	11.895
5785	15.38	11.870
5825	14.17	11.514

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.94	12.025
5785	16.66	12.217
5825	11.26	10.515

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.56	12.191
5785	15.42	11.881
5825	17.42	12.410

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.17	15.583
5795	35.73	15.530

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.16	15.460
5795	35.47	15.499

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	69.63	18.428

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	64.08	18.067

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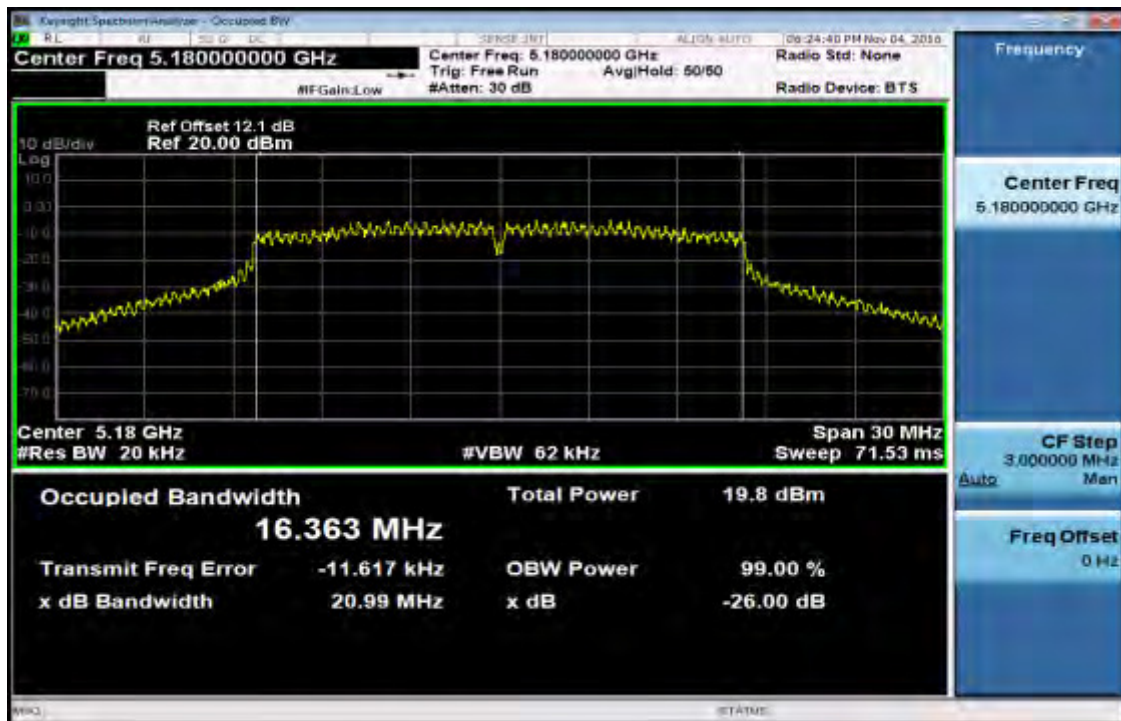
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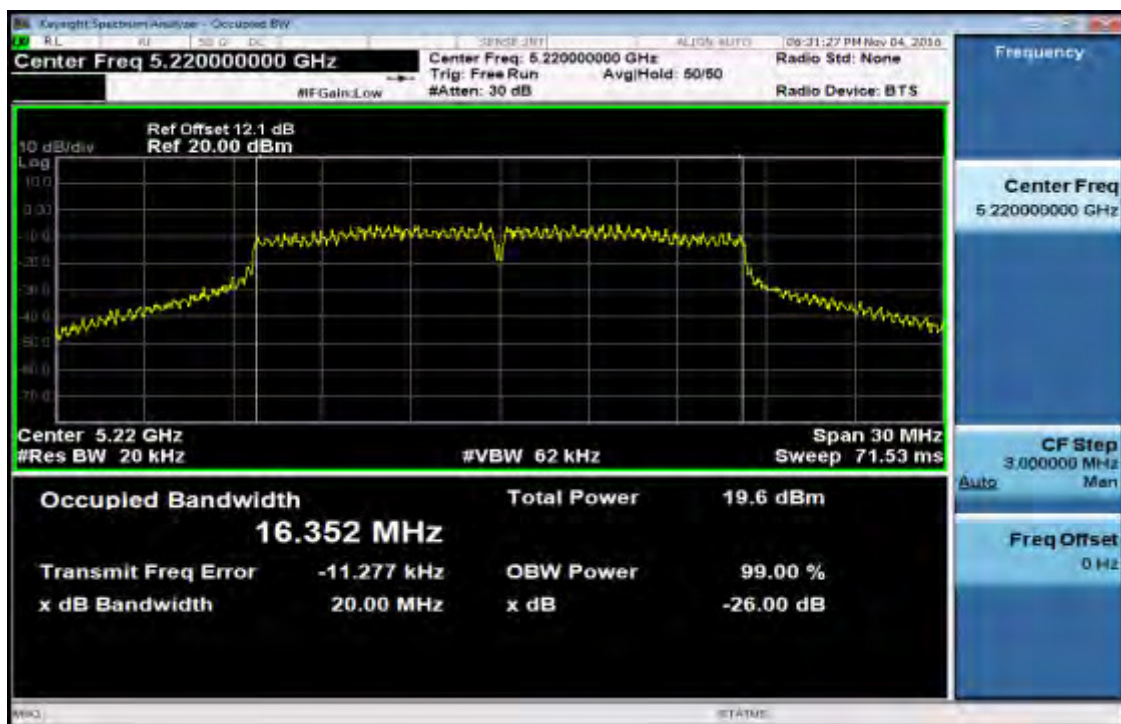
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



26dB Band Width Test Data CH-Mid (5220MHz)



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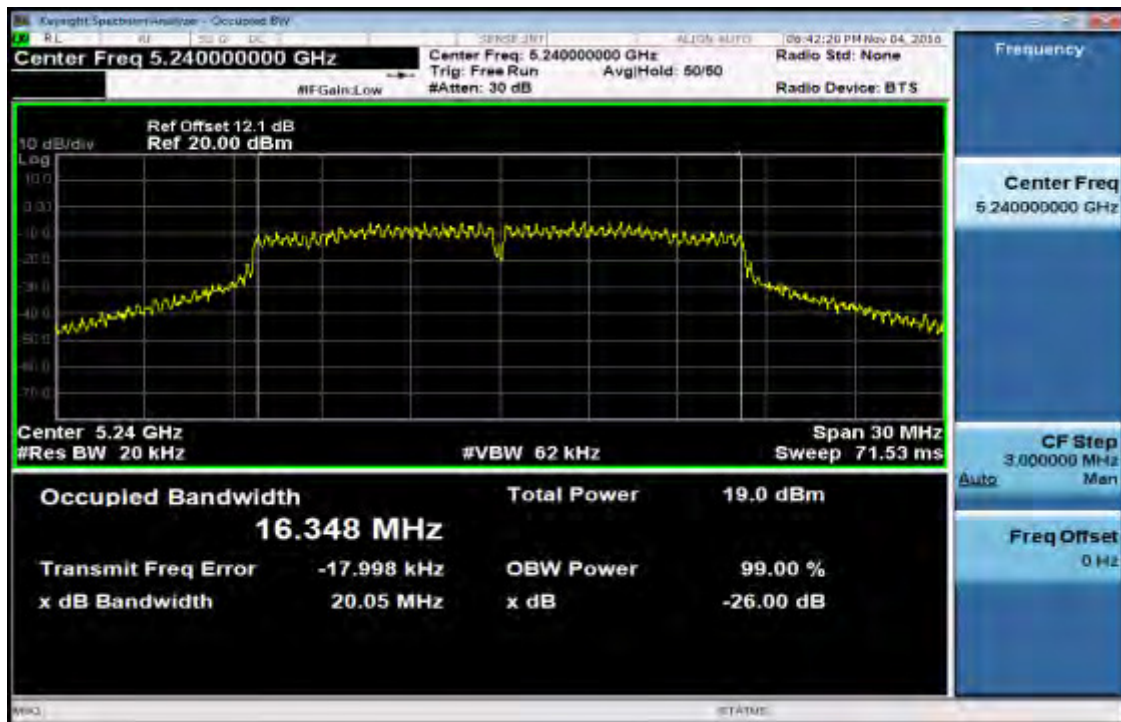
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26dB Band Width Test Data CH-High (5240MHz)



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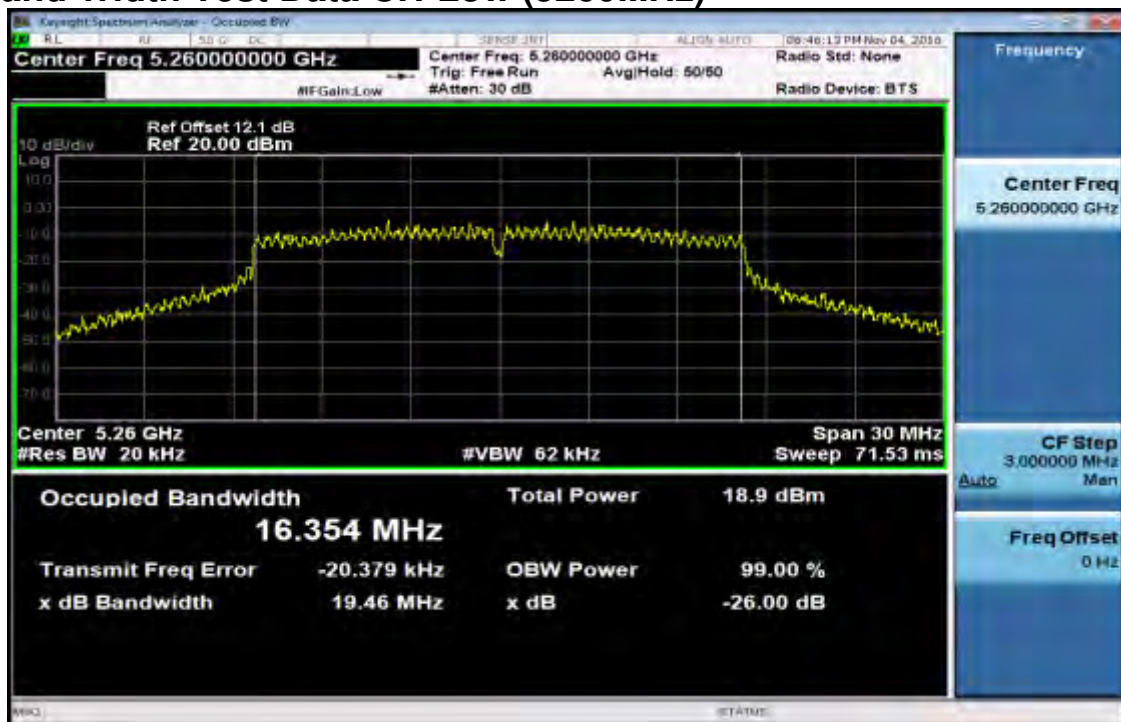
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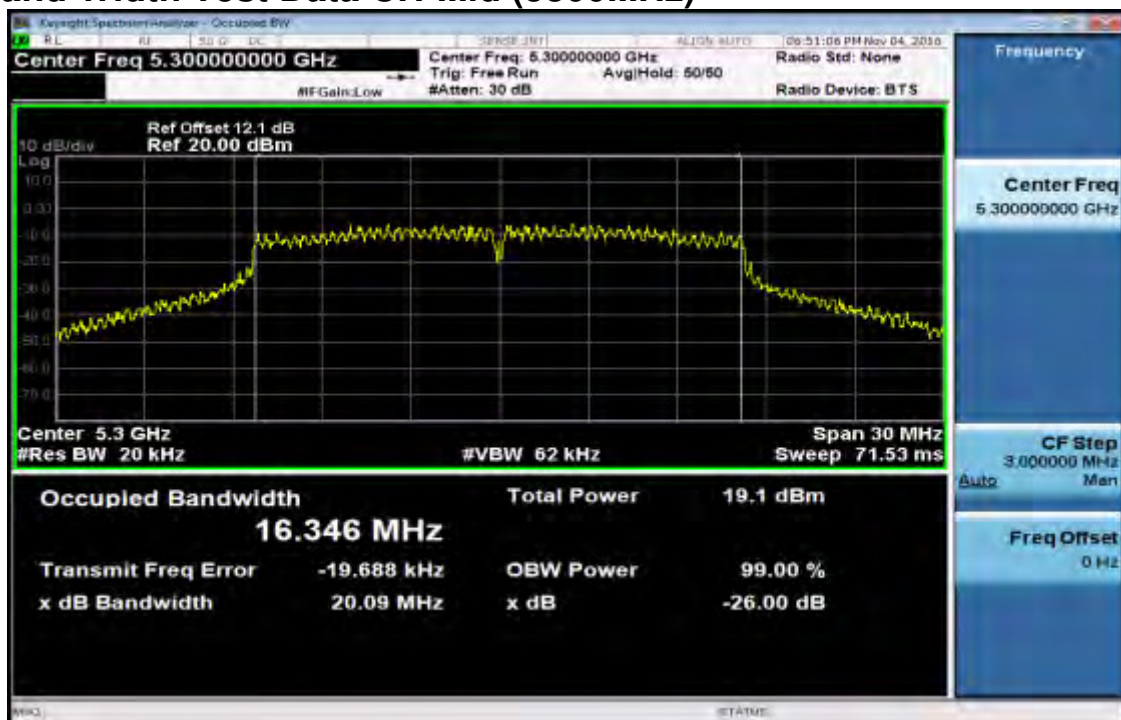
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802.11a, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260MHz)



26dB Band Width Test Data CH-Mid (5300MHz)



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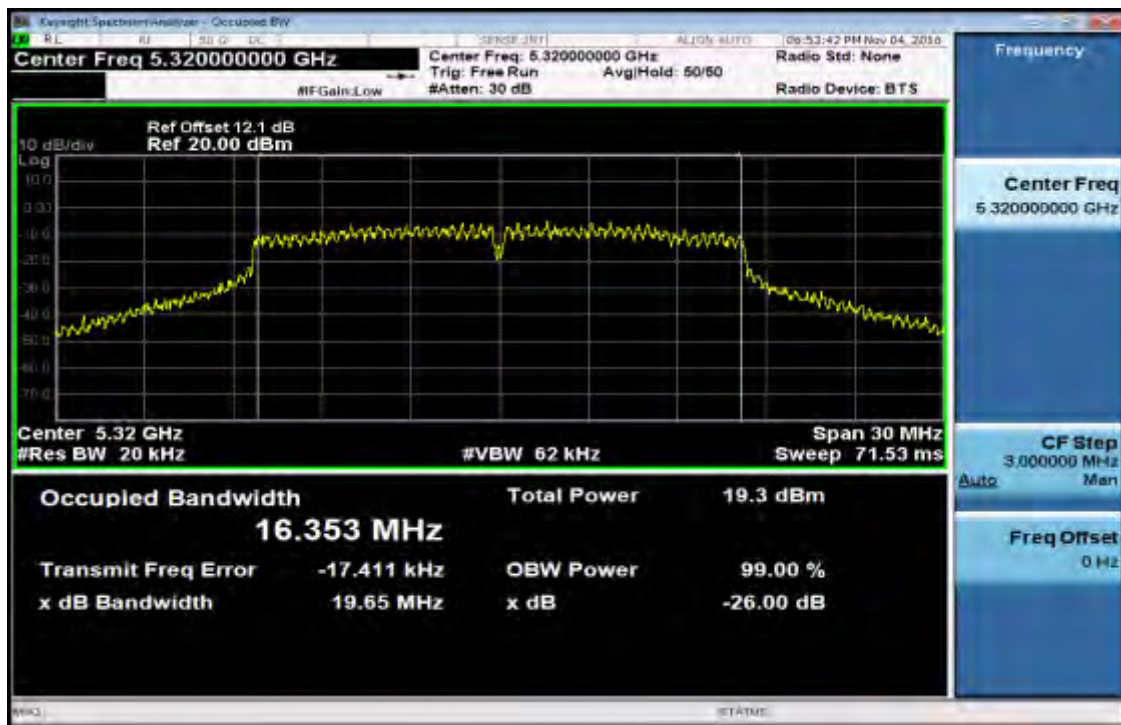
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26dB Band Width Test Data CH-High (5320MHz)



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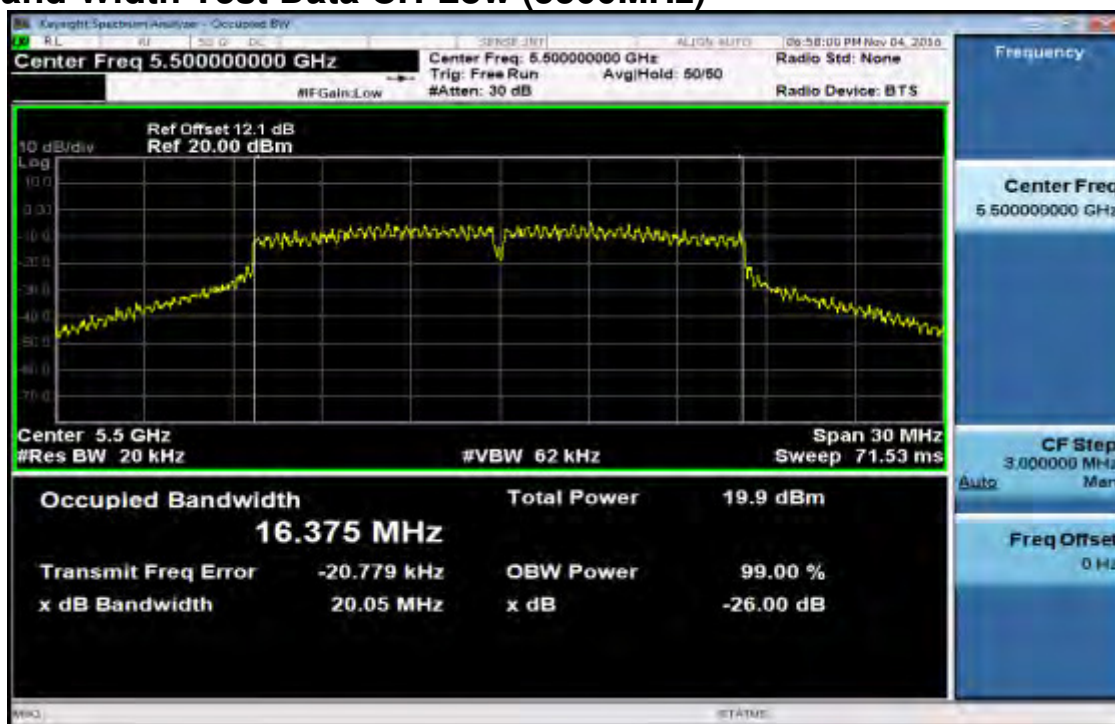
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f (886-2) 2298-0488

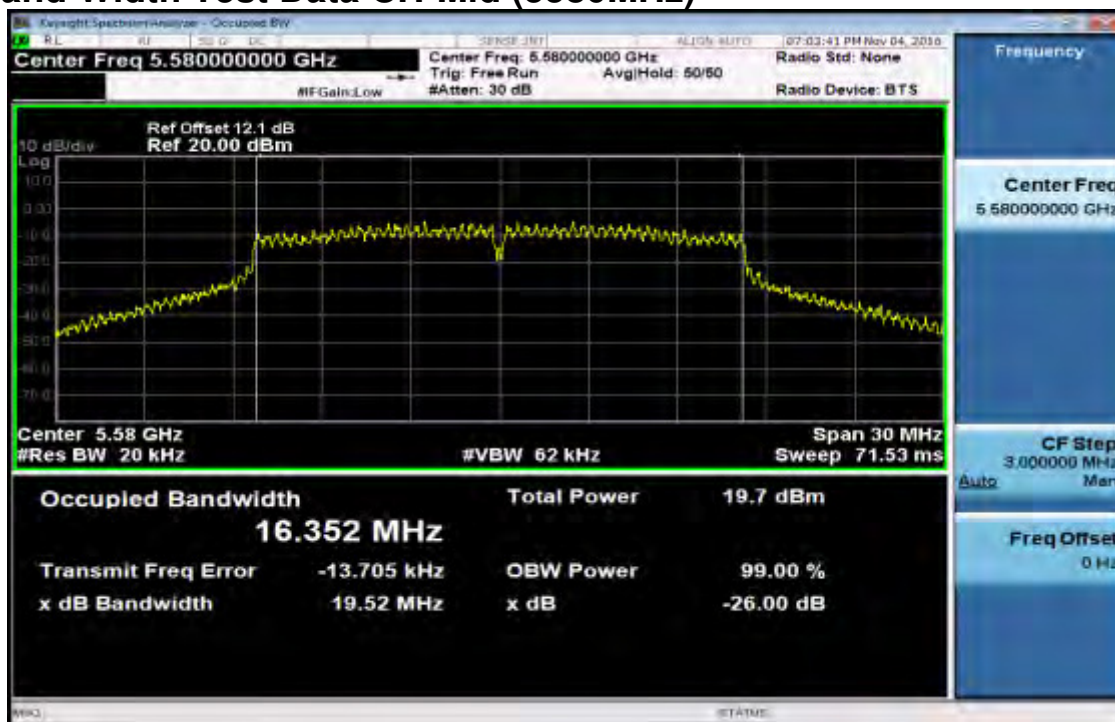
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802.11a, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500MHz)



26dB Band Width Test Data CH-Mid (5580MHz)



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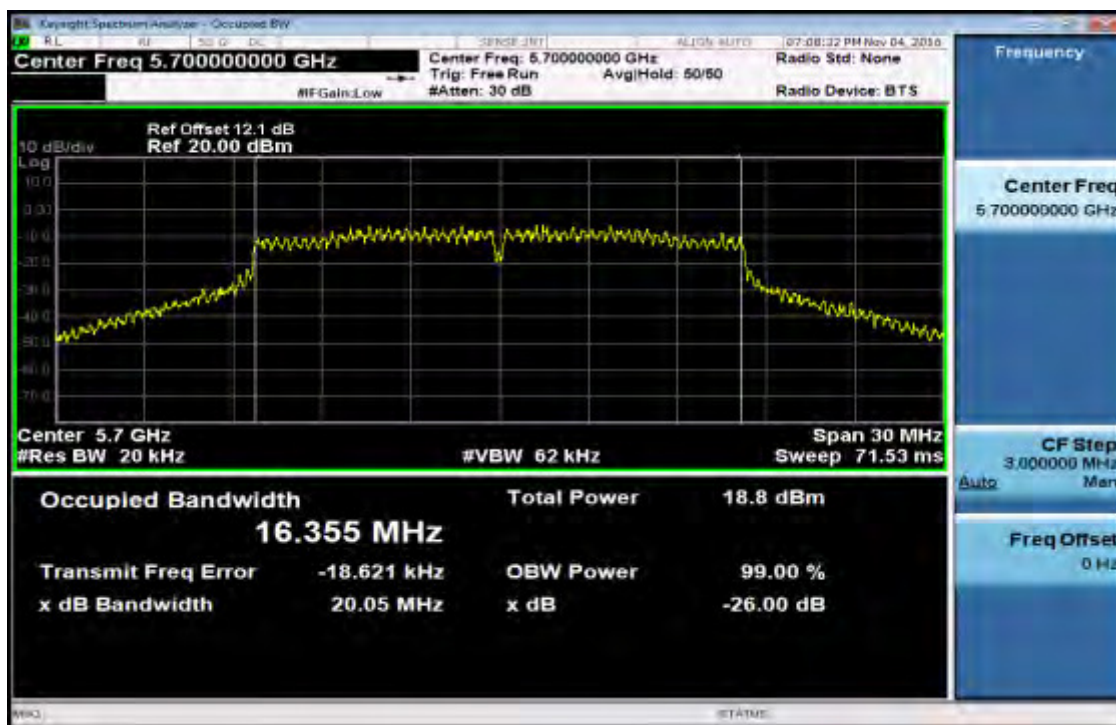
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26dB Band Width Test Data CH-High (5700MHz)



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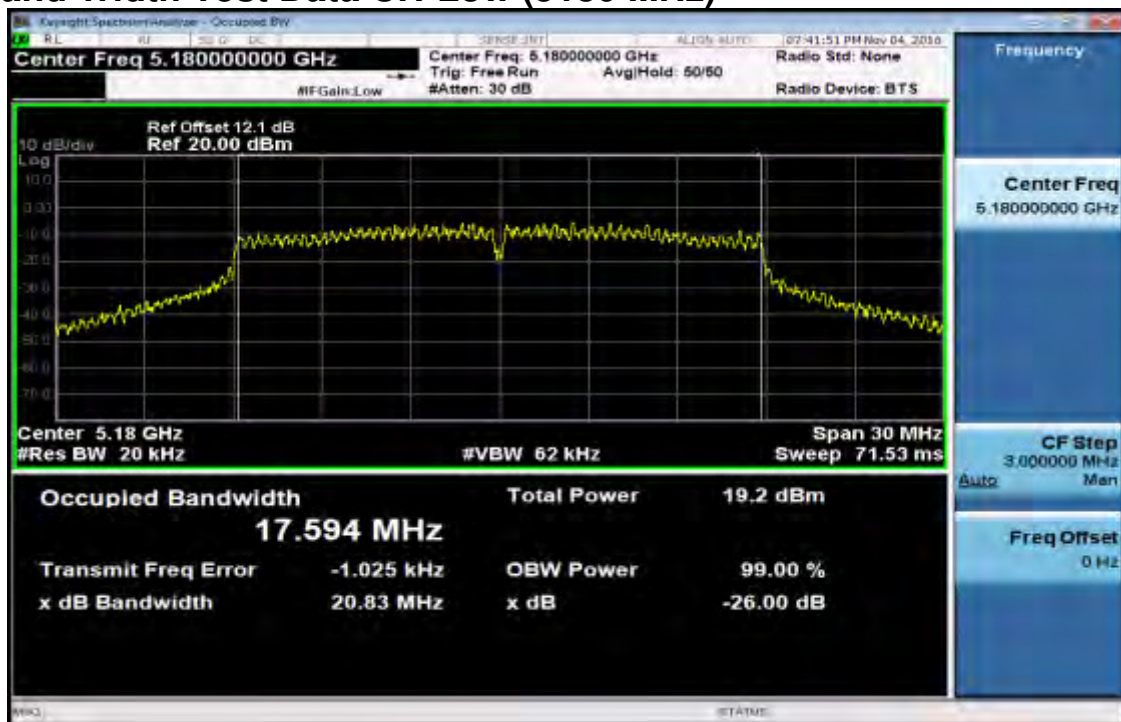
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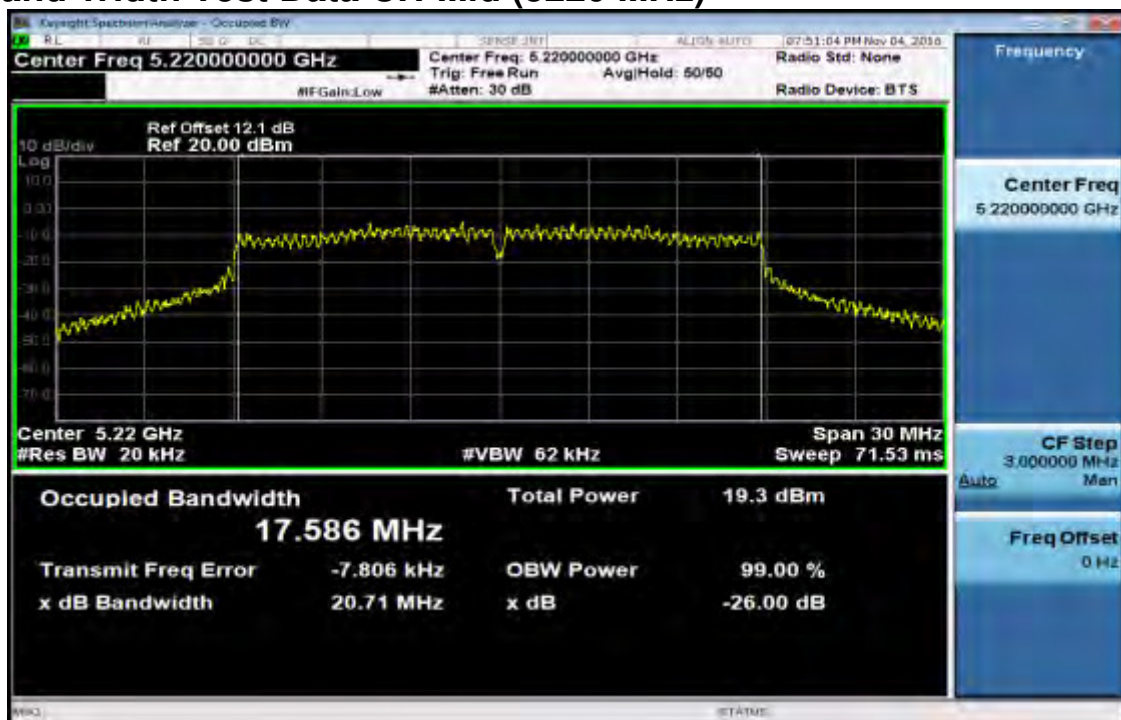
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



26dB Band Width Test Data CH-Mid (5220 MHz)



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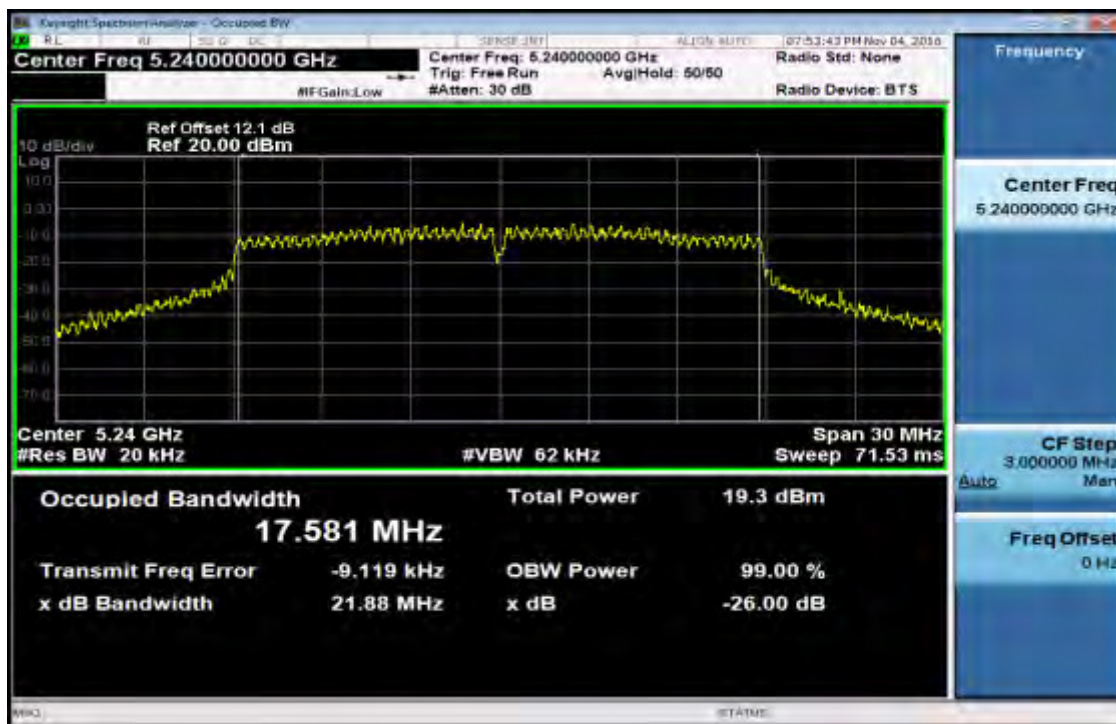
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26dB Band Width Test Data CH-High (5240 MHz)



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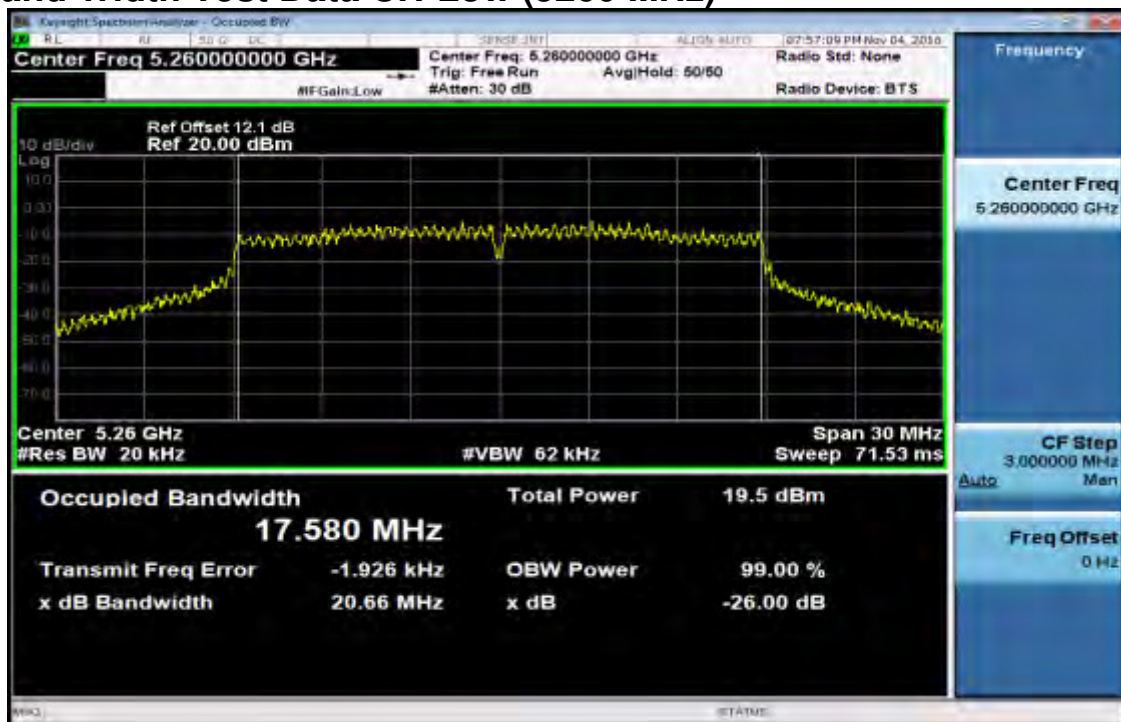
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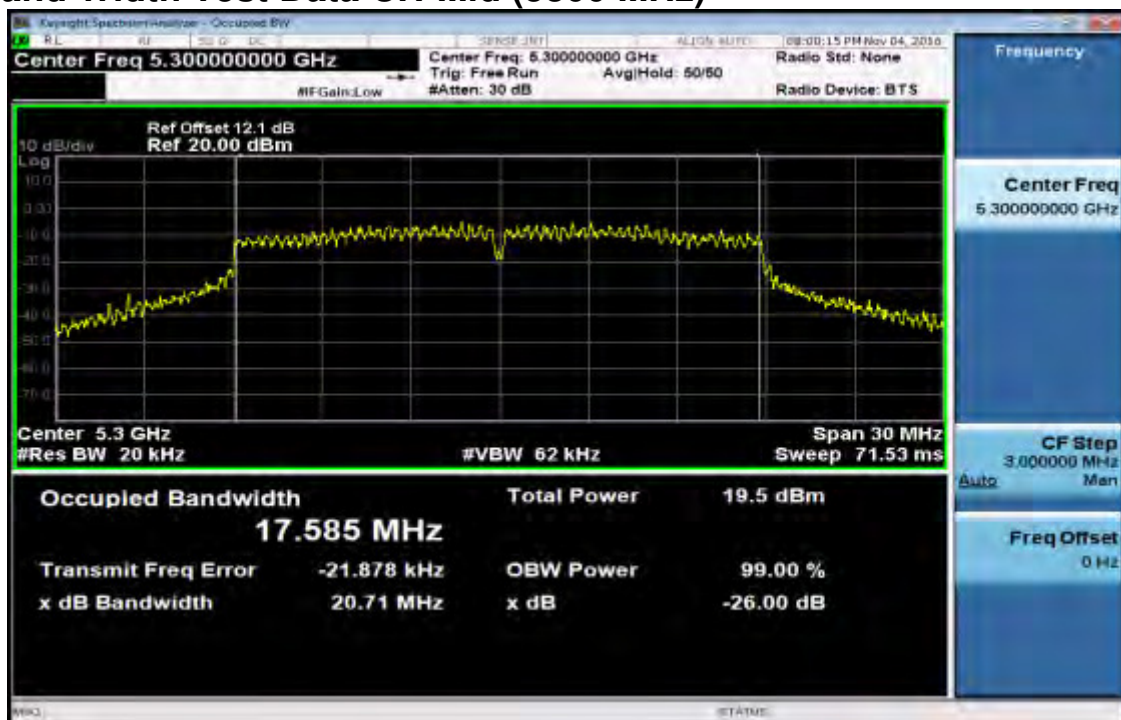
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802.11n HT20, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260 MHz)



26dB Band Width Test Data CH-Mid (5300 MHz)



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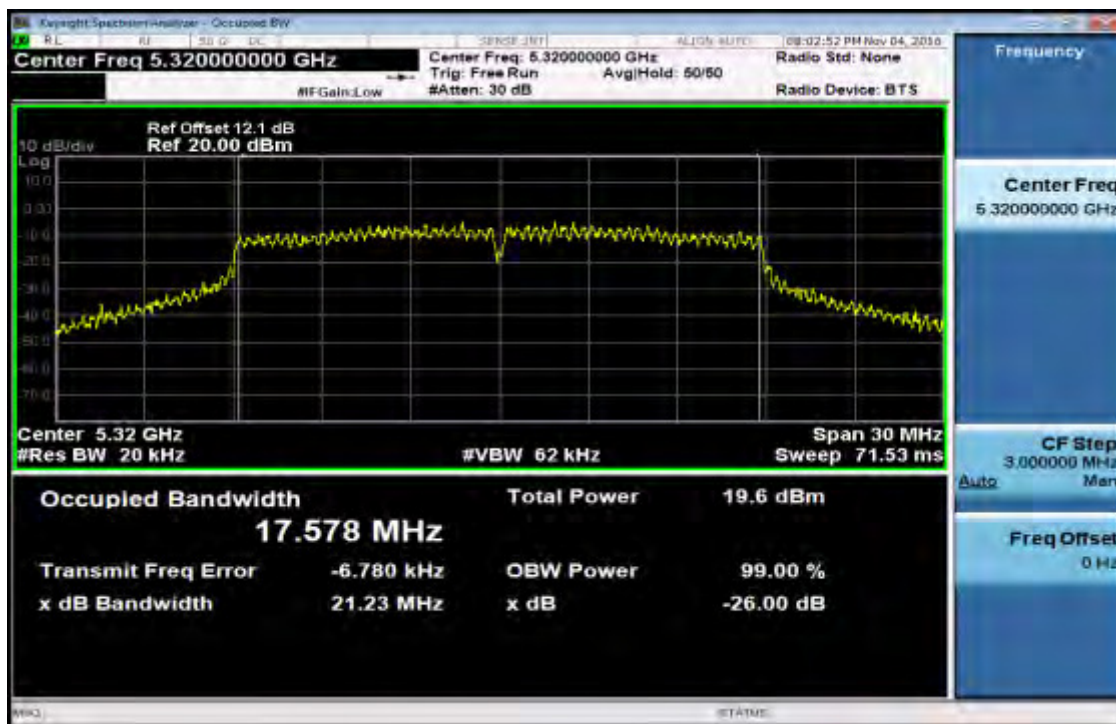
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26dB Band Width Test Data CH-High (5320 MHz)



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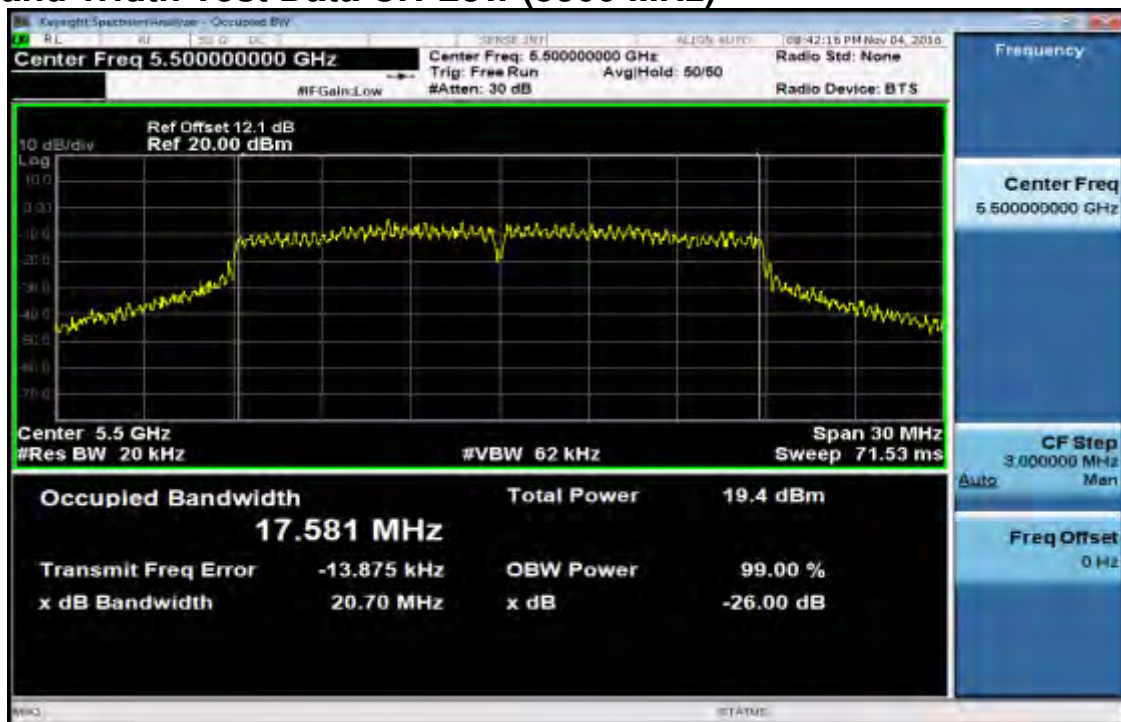
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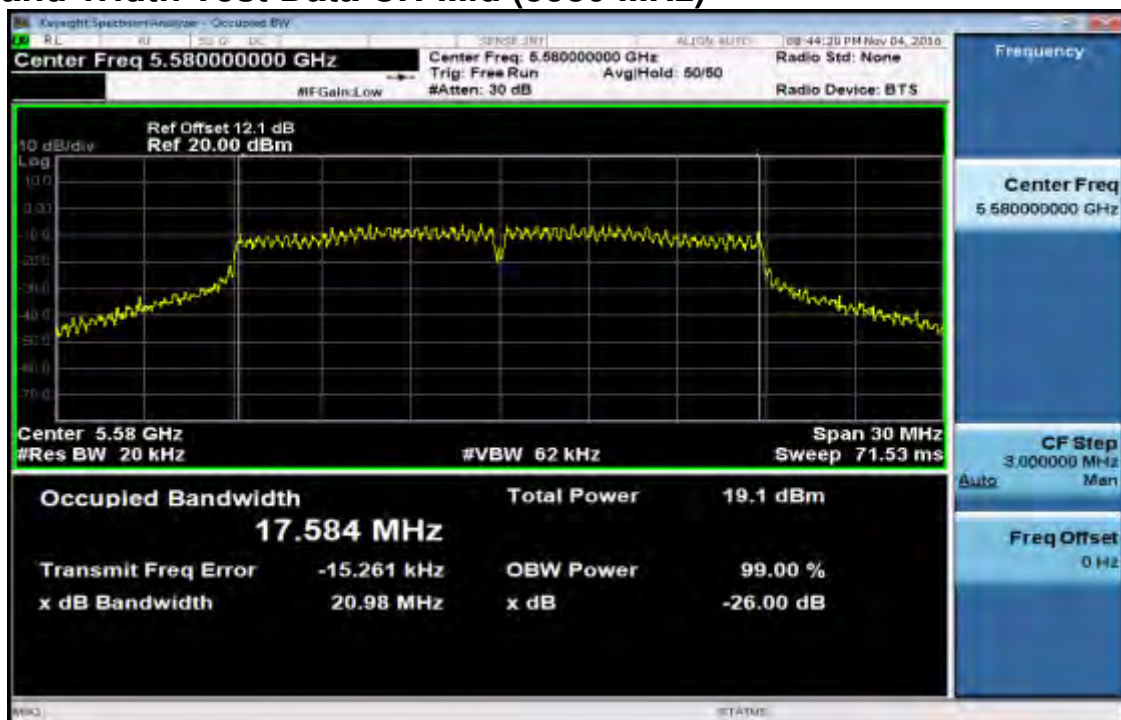
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



26dB Band Width Test Data CH-Mid (5580 MHz)



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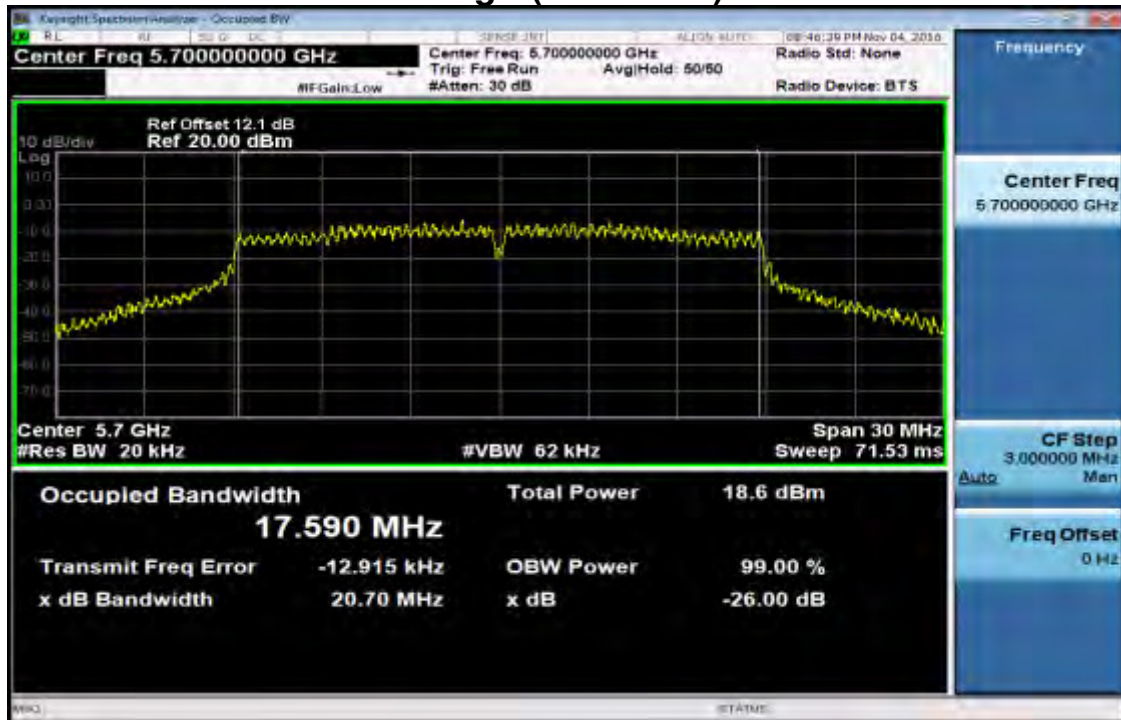
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26dB Band Width Test Data CH-High (5700 MHz)



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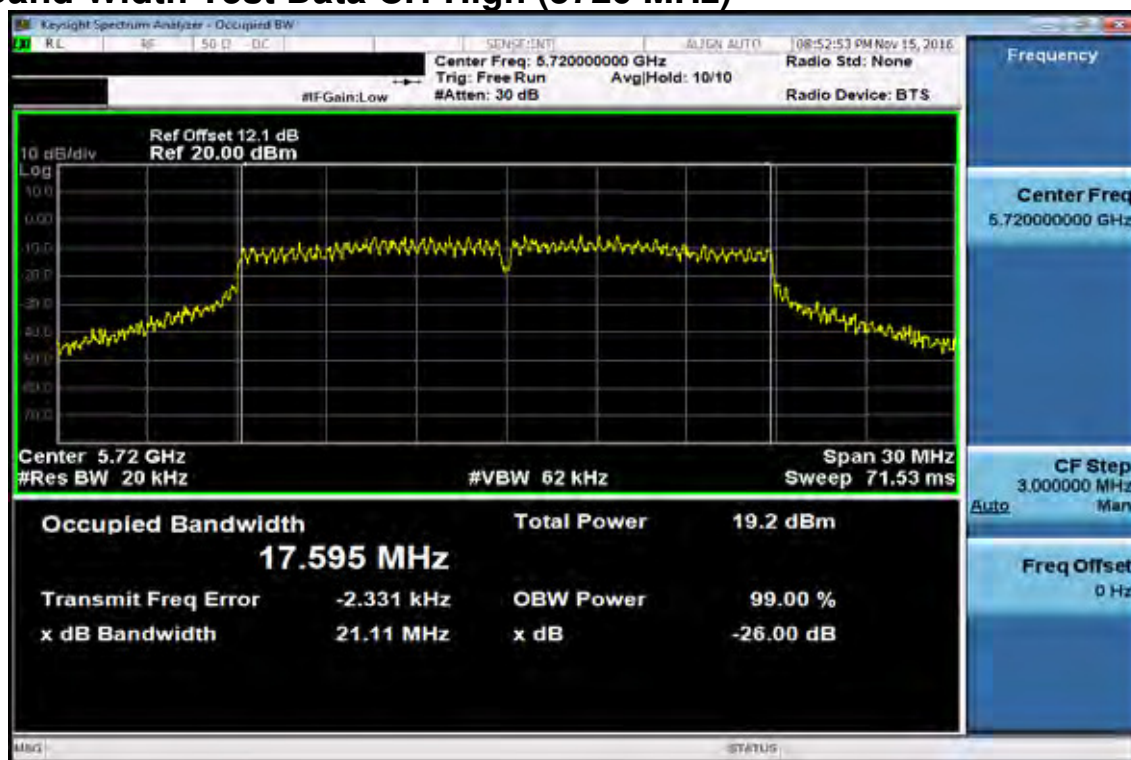
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-High (5720 MHz)



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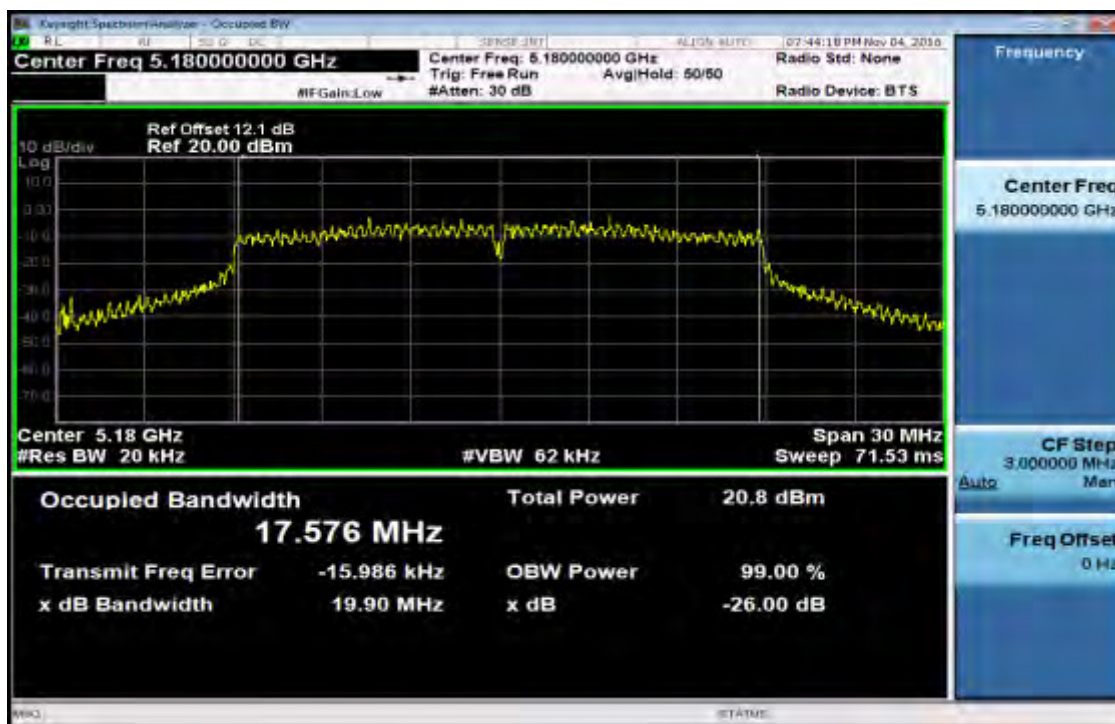
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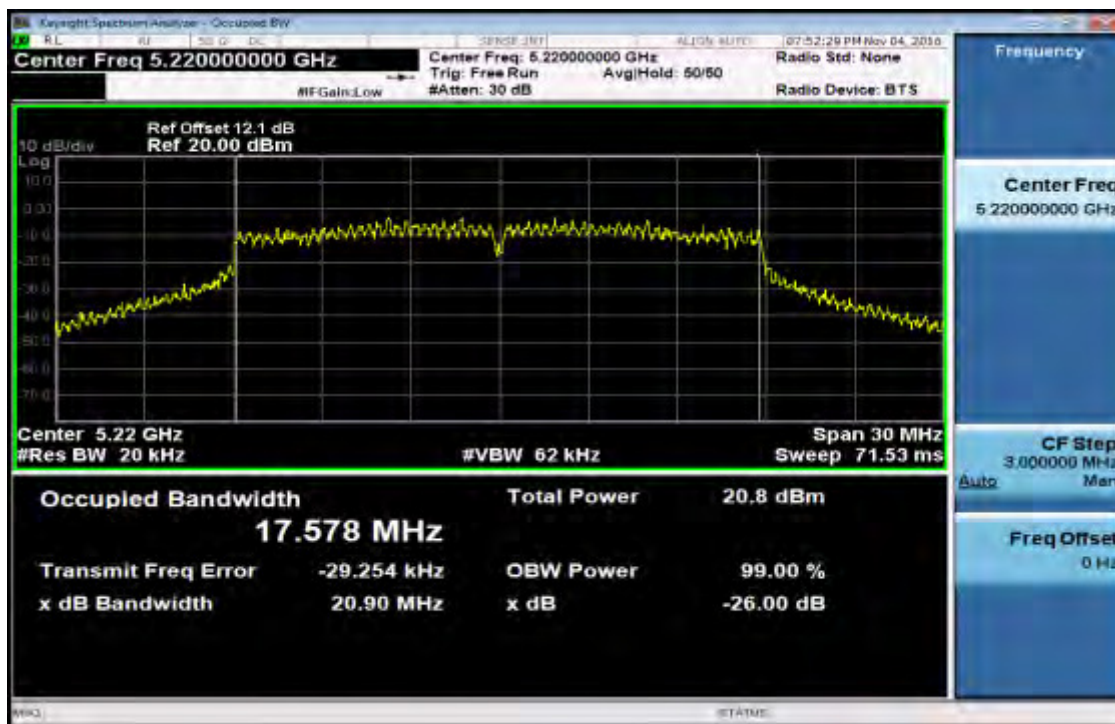
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802.11n HT20, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Low (5180 MHz)



26dB Band Width Test Data CH-Mid (5220 MHz)



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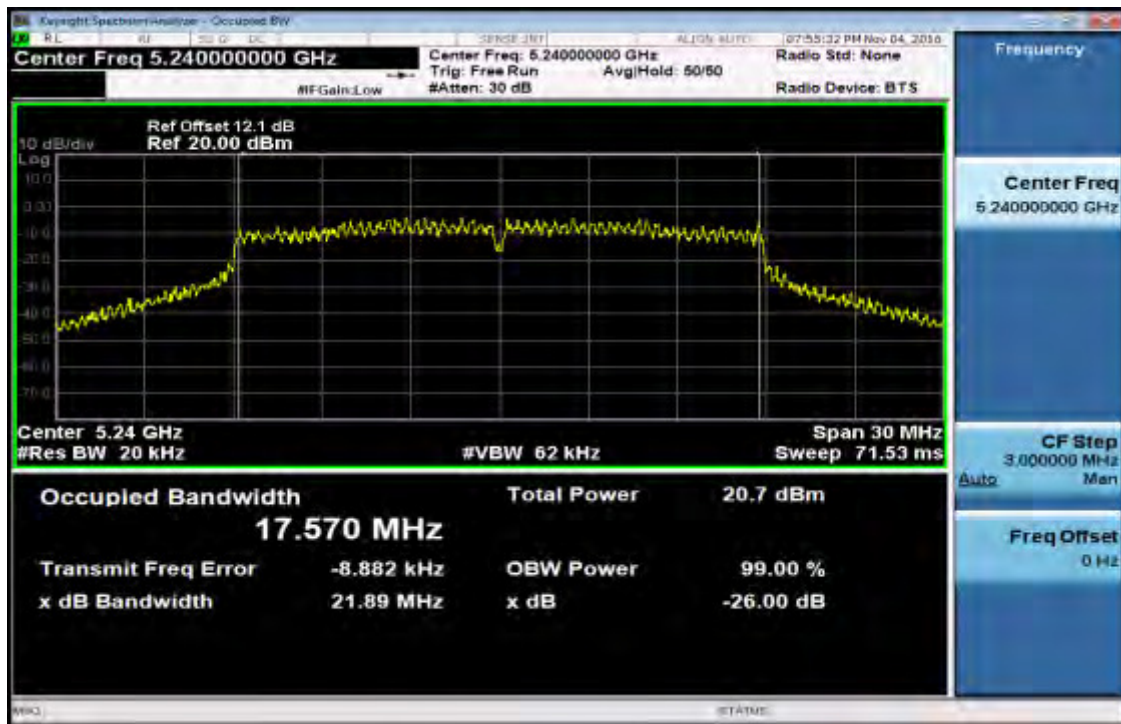
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26dB Band Width Test Data CH-High (5240 MHz)



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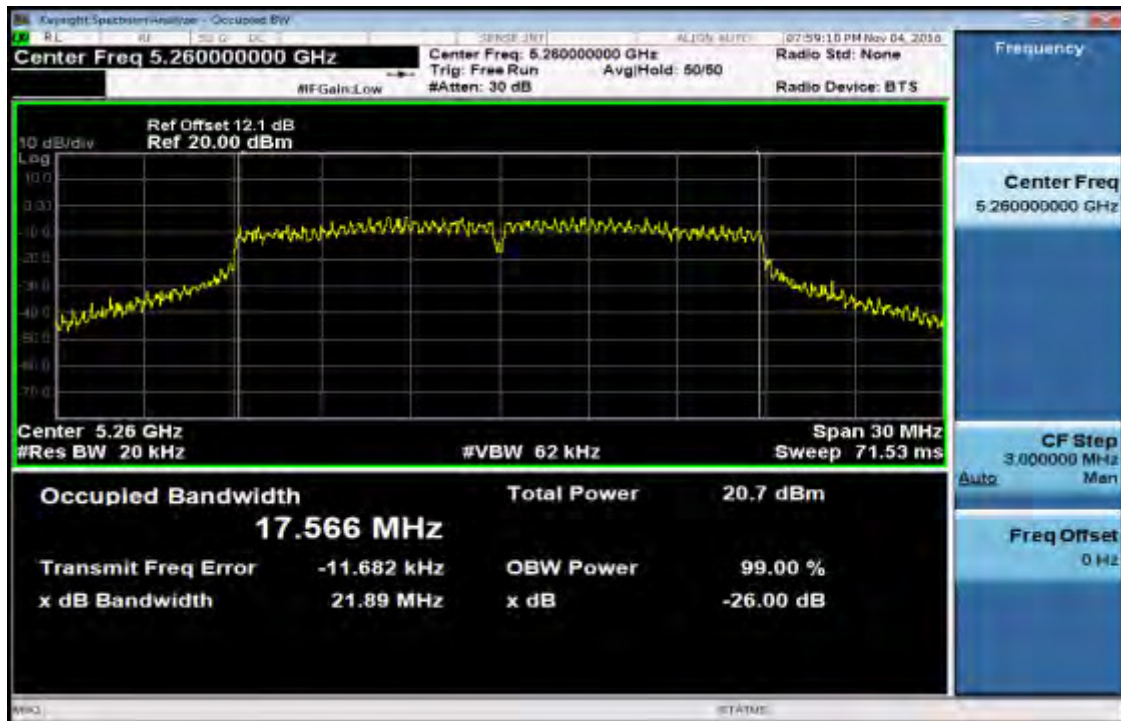
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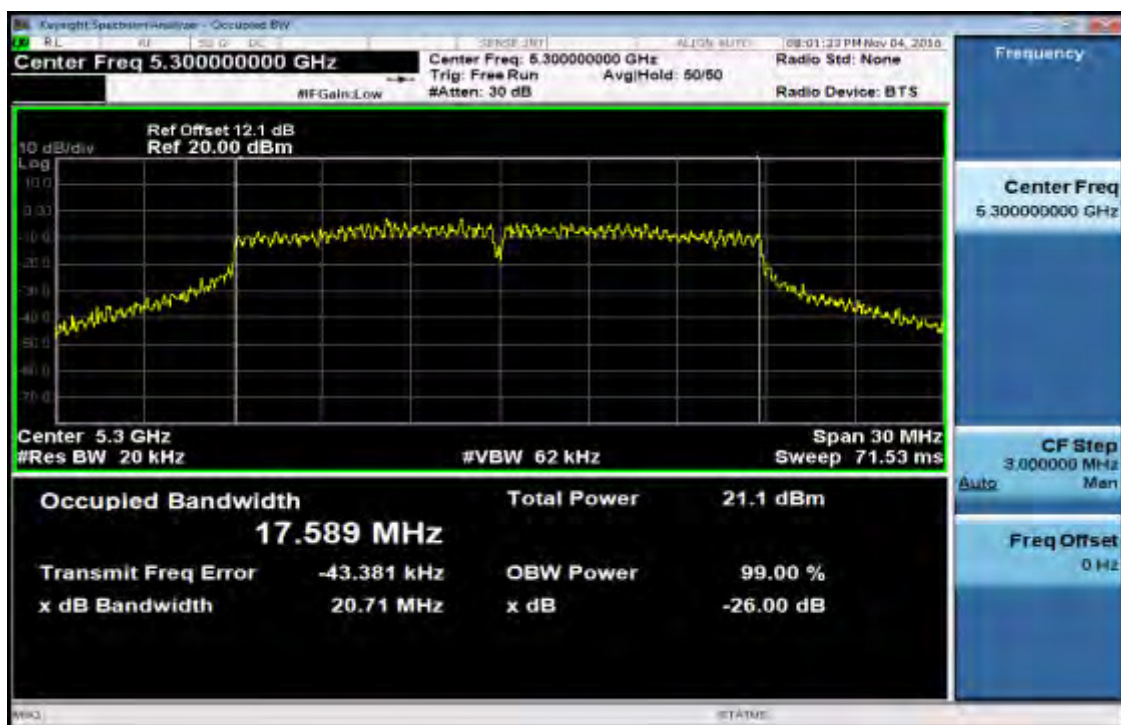
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802.11n HT20, 5250~5350 MHz (Aux) 26dB Band Width Test Data CH-Low (5260 MHz)



26dB Band Width Test Data CH-Mid (5300 MHz)



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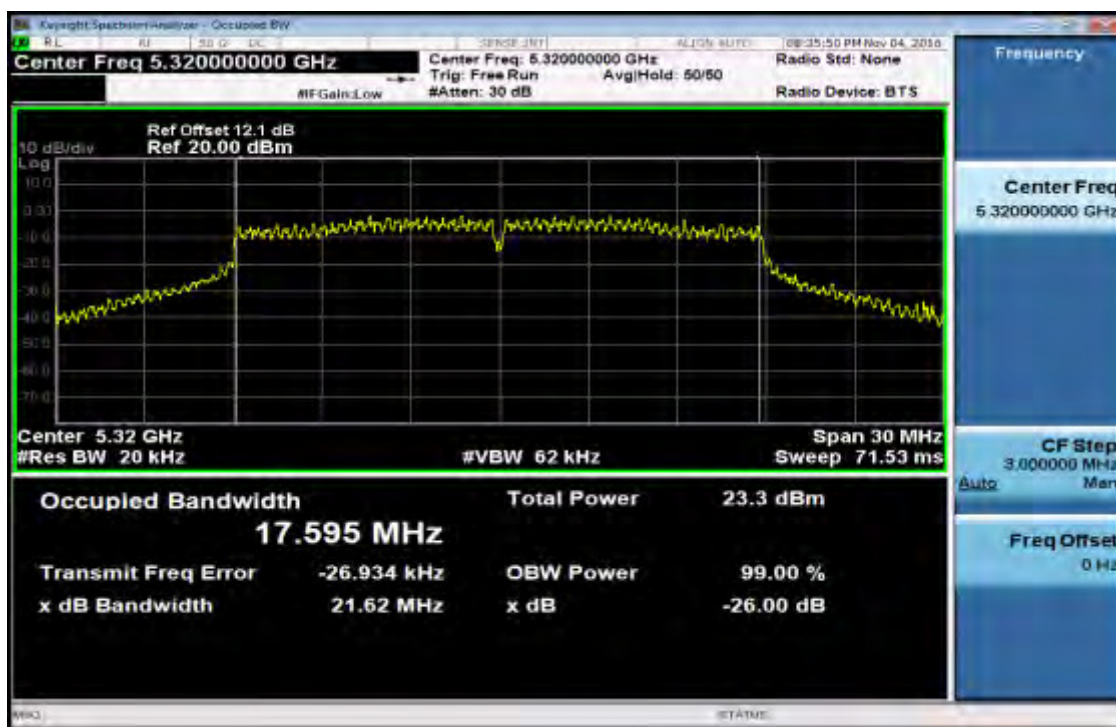
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26dB Band Width Test Data CH-High (5320 MHz)



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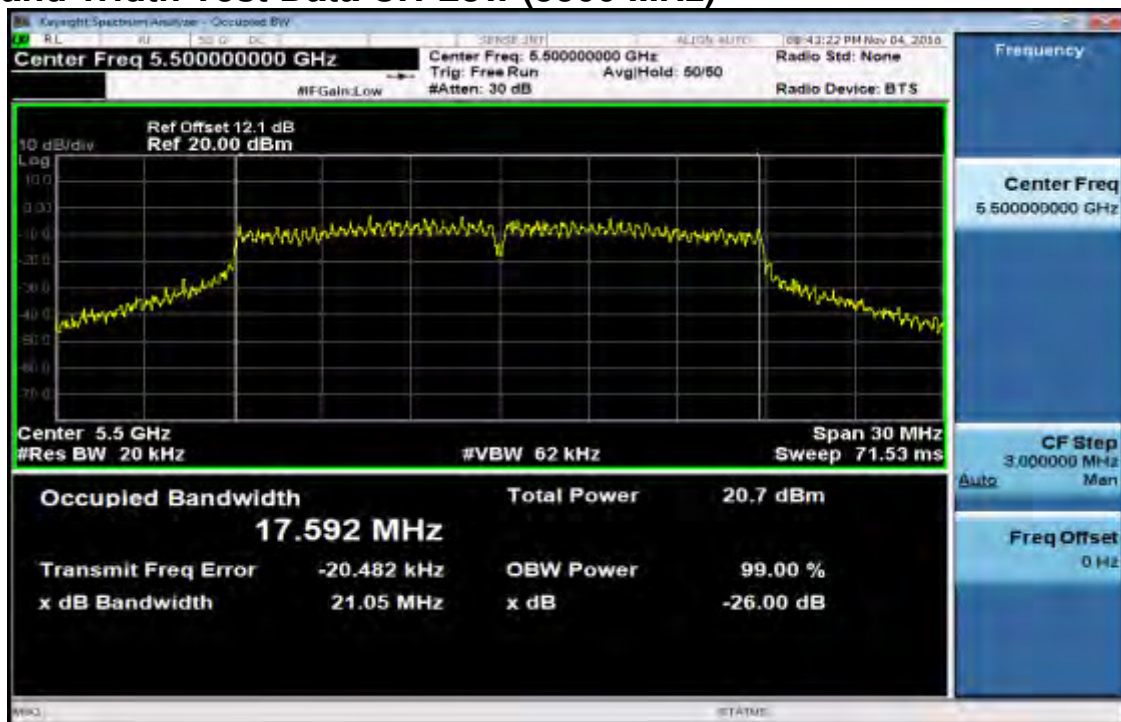
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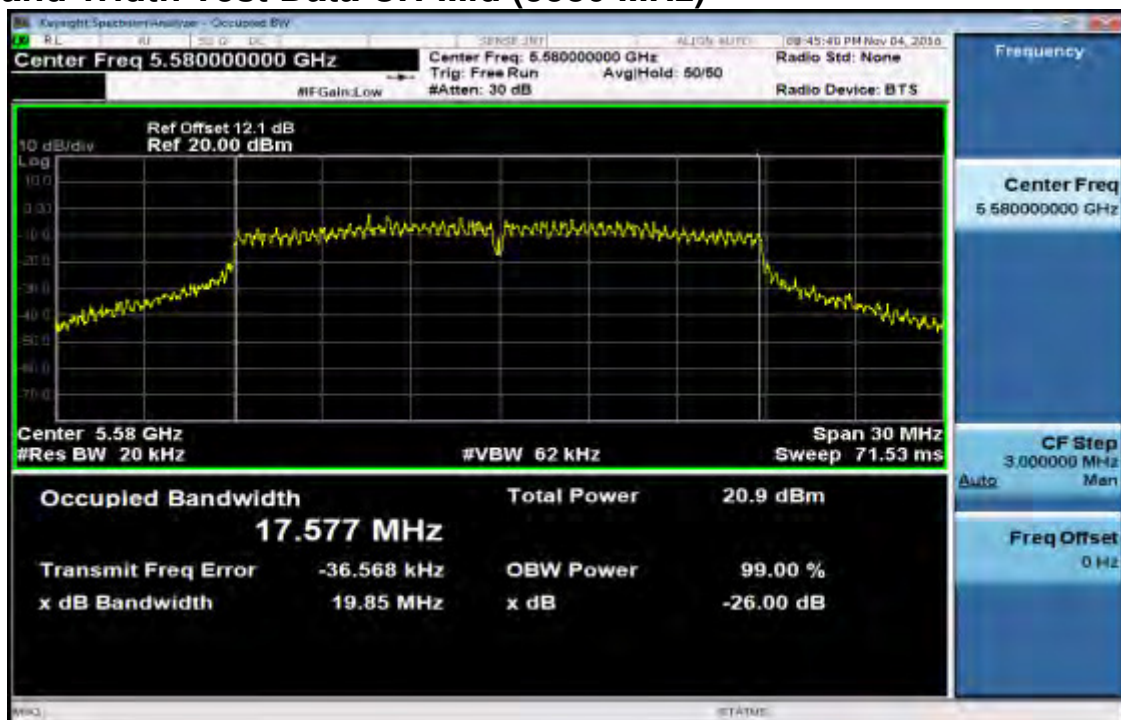
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802.11n HT20, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5500 MHz)



26dB Band Width Test Data CH-Mid (5580 MHz)



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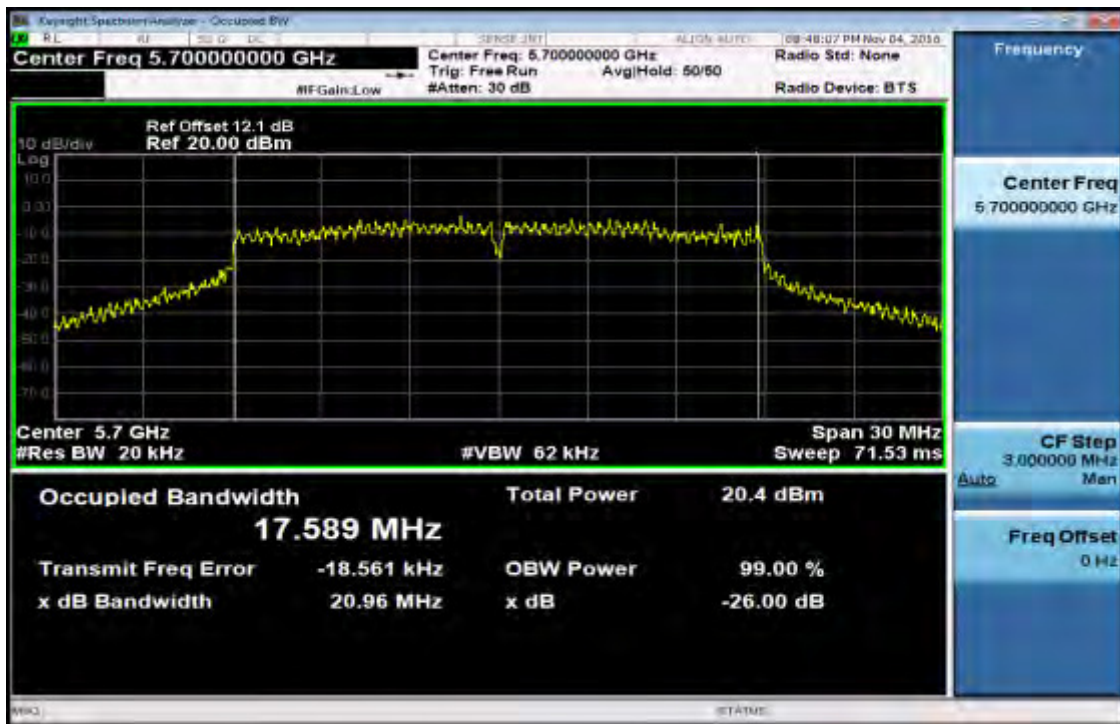
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26dB Band Width Test Data CH-High (5700 MHz)



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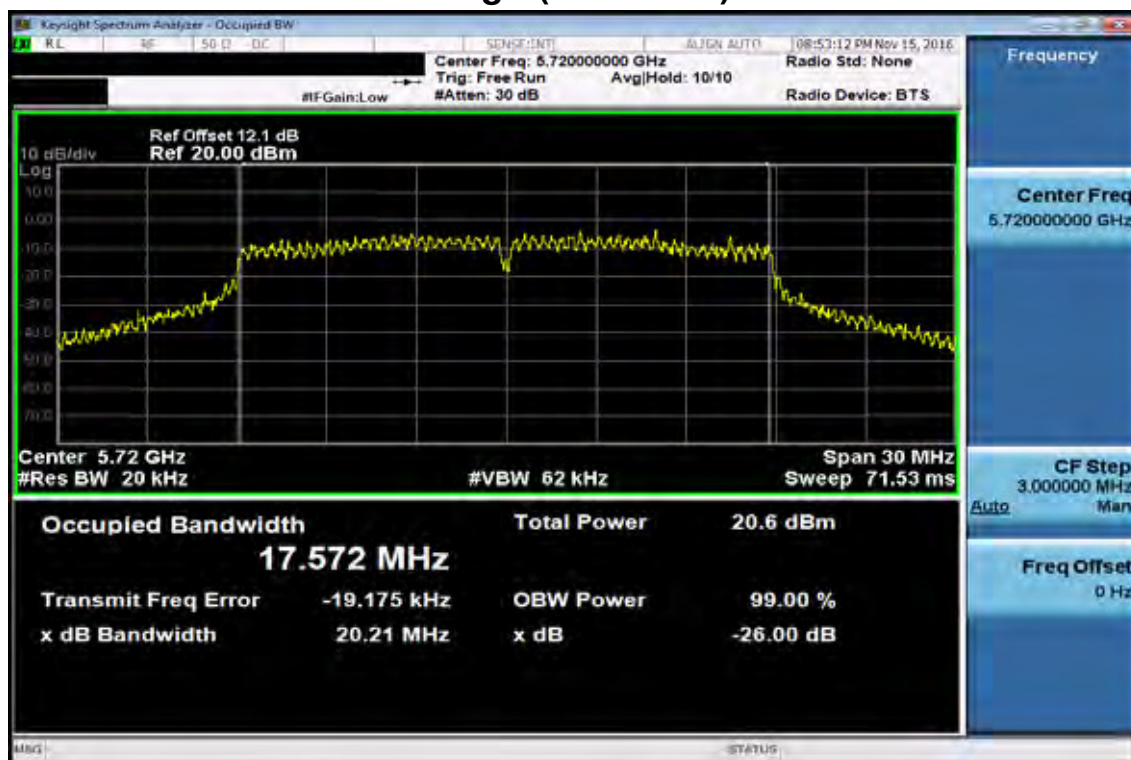
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802.11n HT20, 5470~5725 MHz (Aux)

26dB Band Width Test Data CH-High (5720 MHz)



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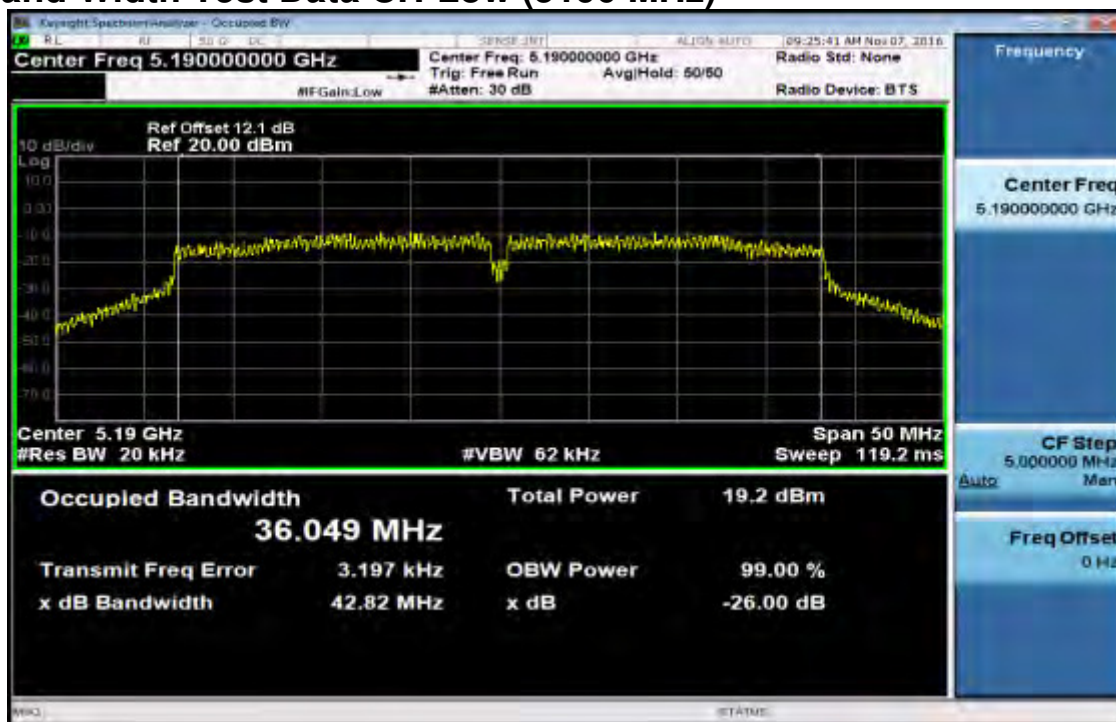
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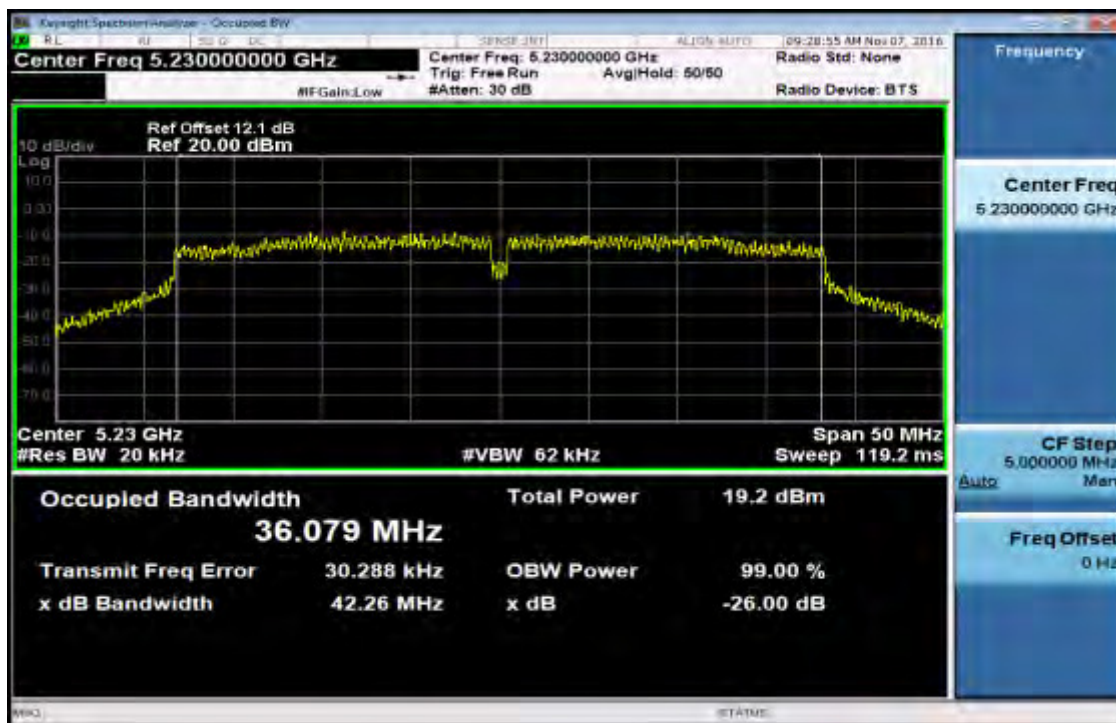
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802.11n HT40, 5150~5250 MHz (Main)

26dB Band Width Test Data CH-Low (5190 MHz)



26dB Band Width Test Data CH-High (5230 MHz)



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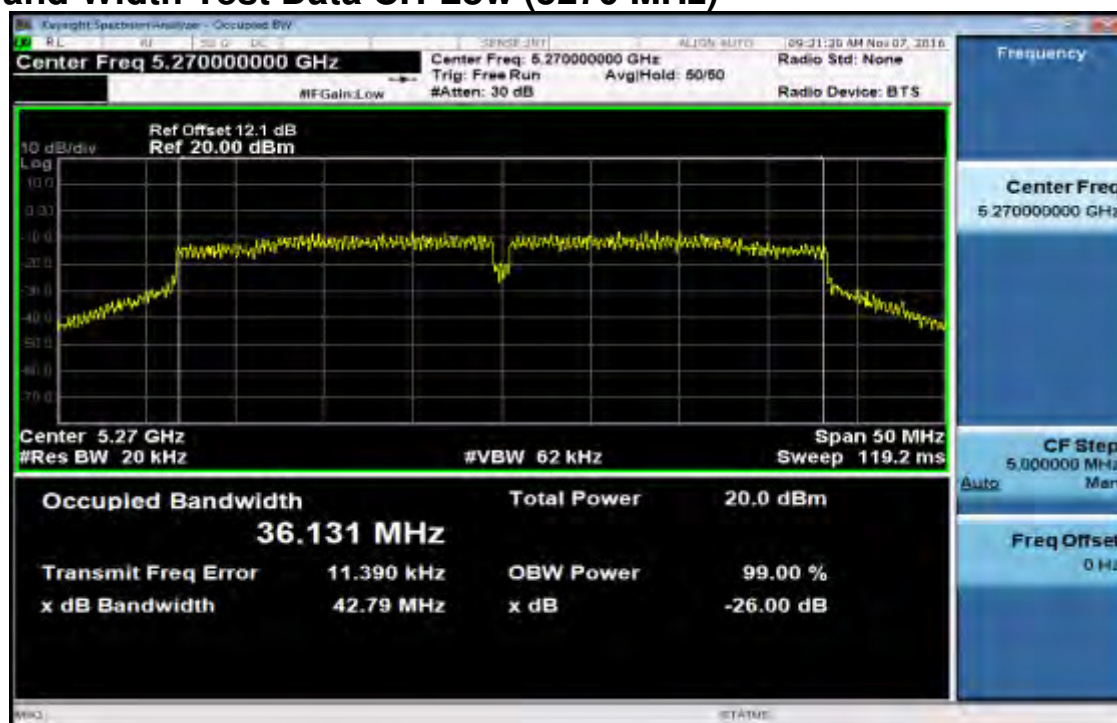
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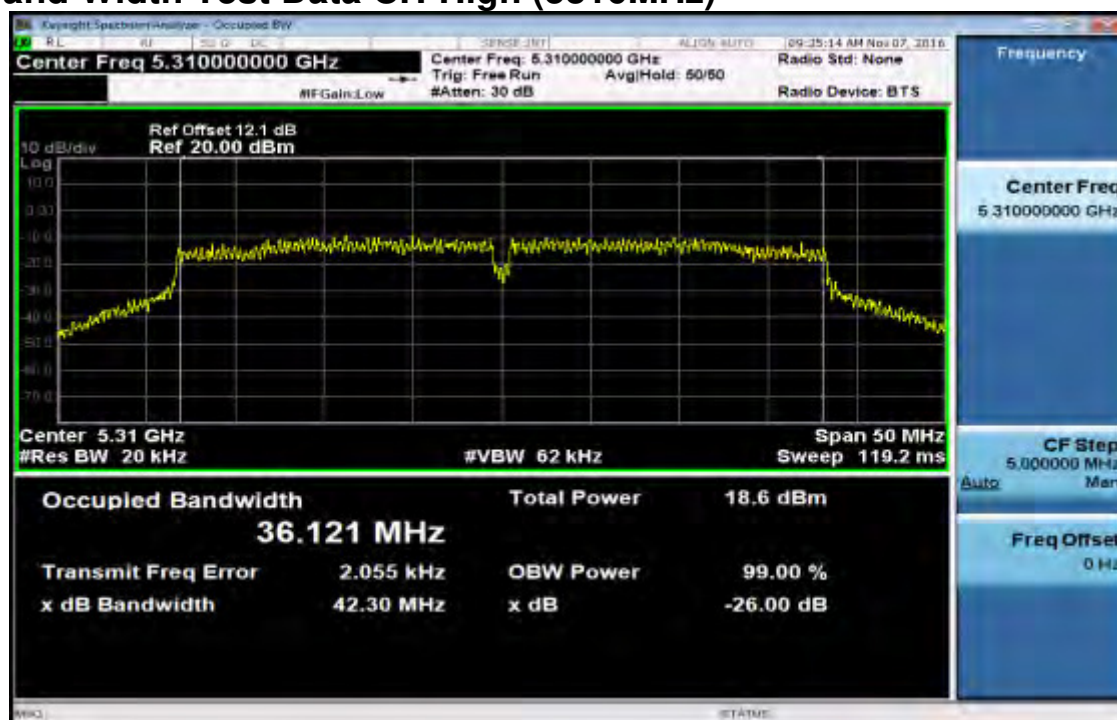
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802.11n HT40, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5270 MHz)



26dB Band Width Test Data CH-High (5310MHz)



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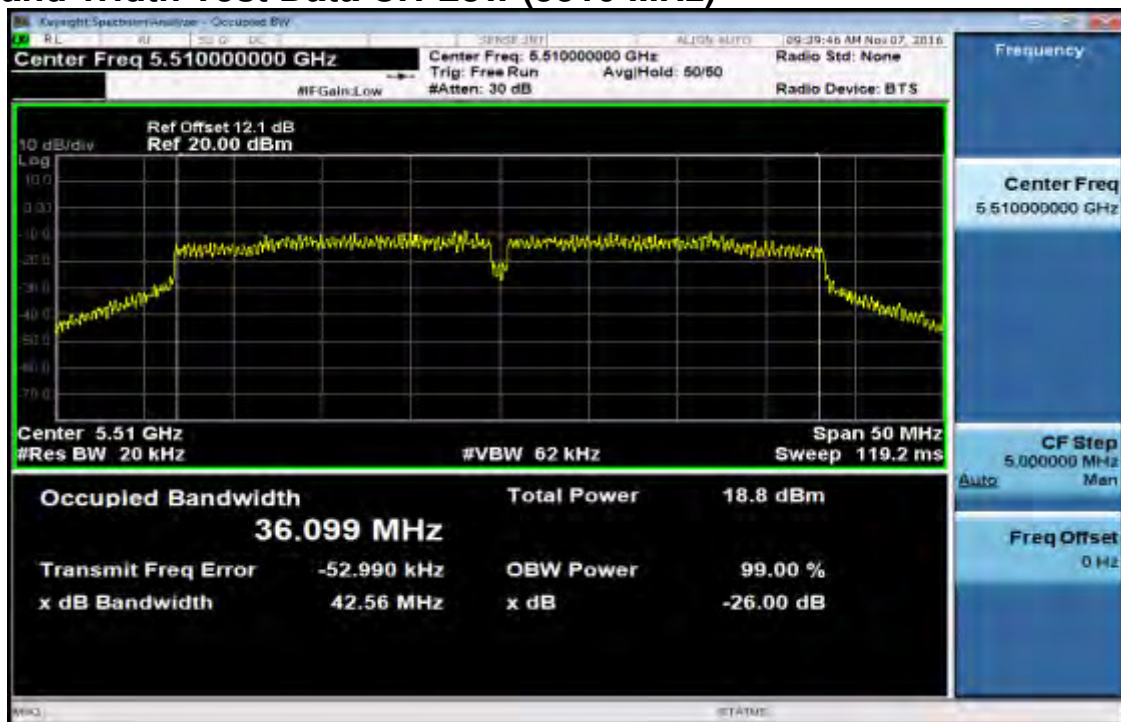
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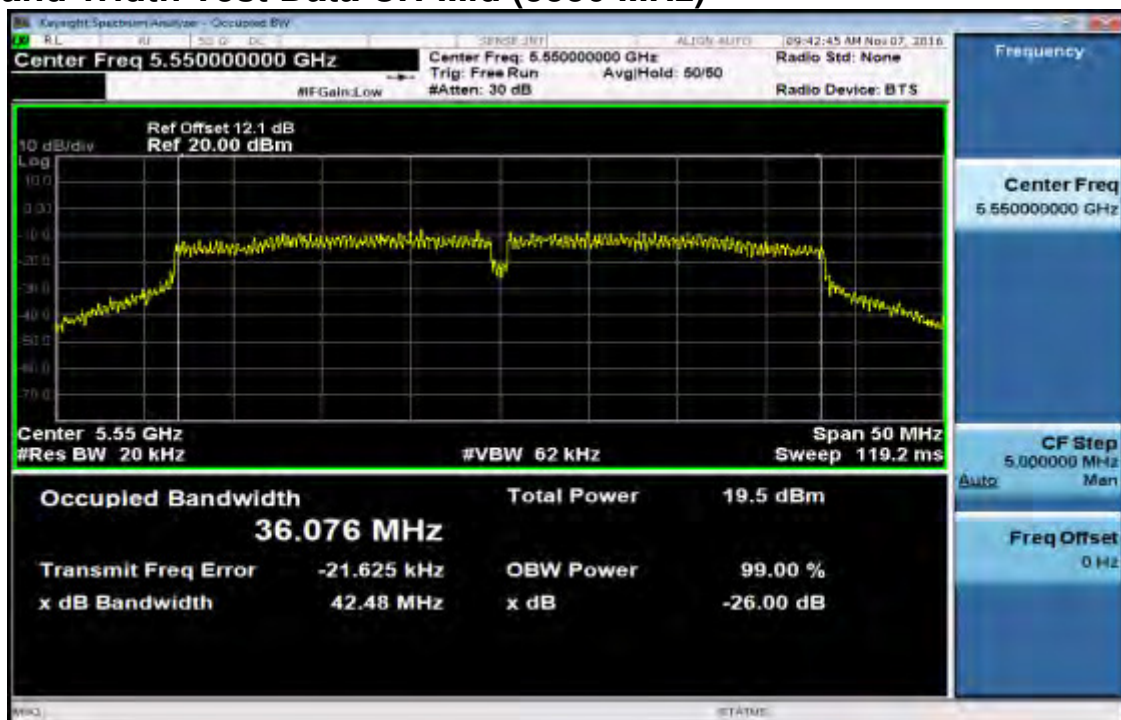
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)



26dB Band Width Test Data CH-Mid (5550 MHz)



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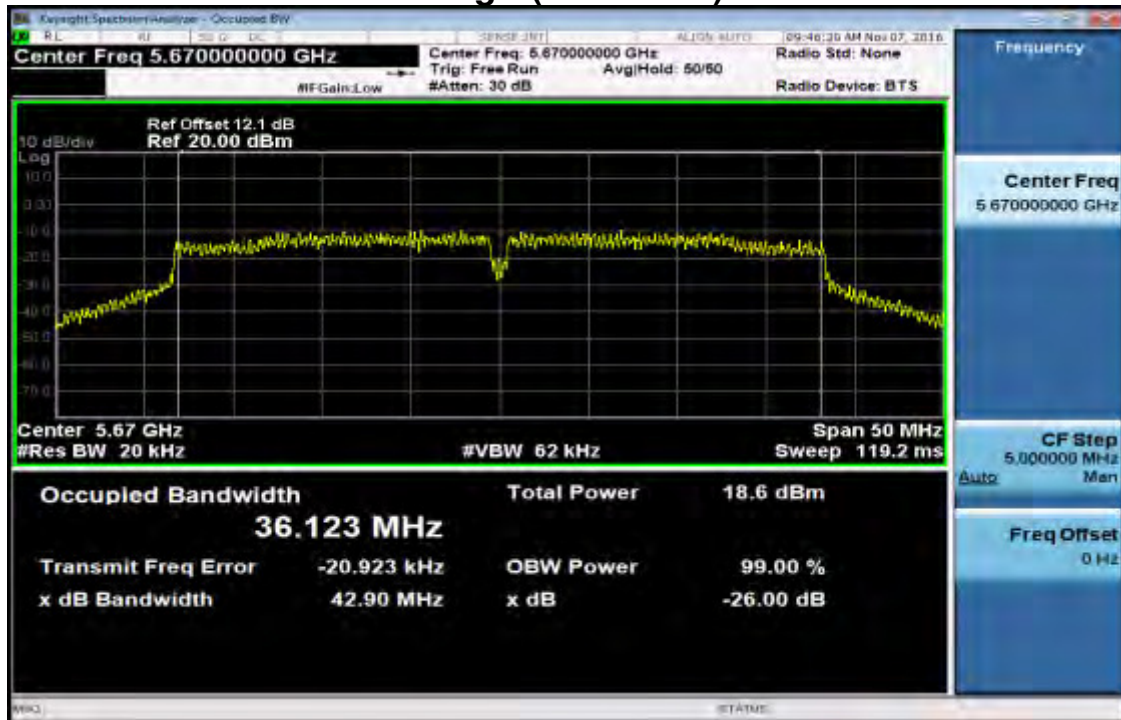
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26dB Band Width Test Data CH-High (5670 MHz)



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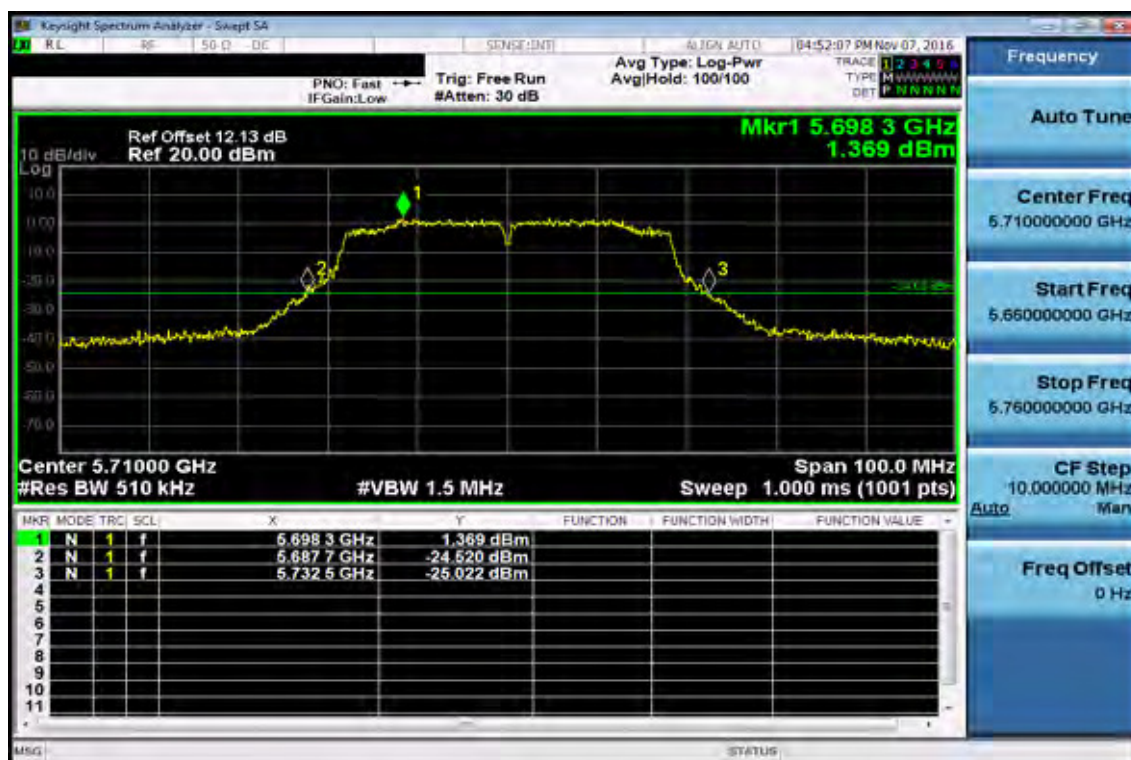
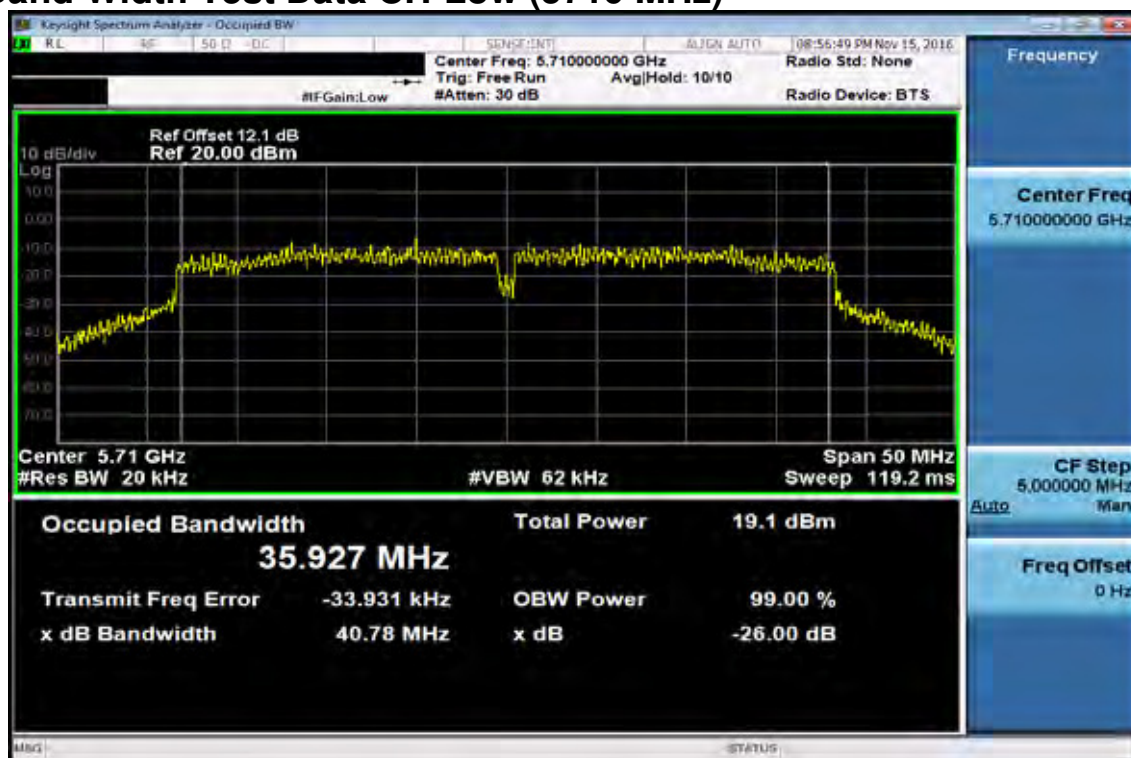
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5710 MHz)



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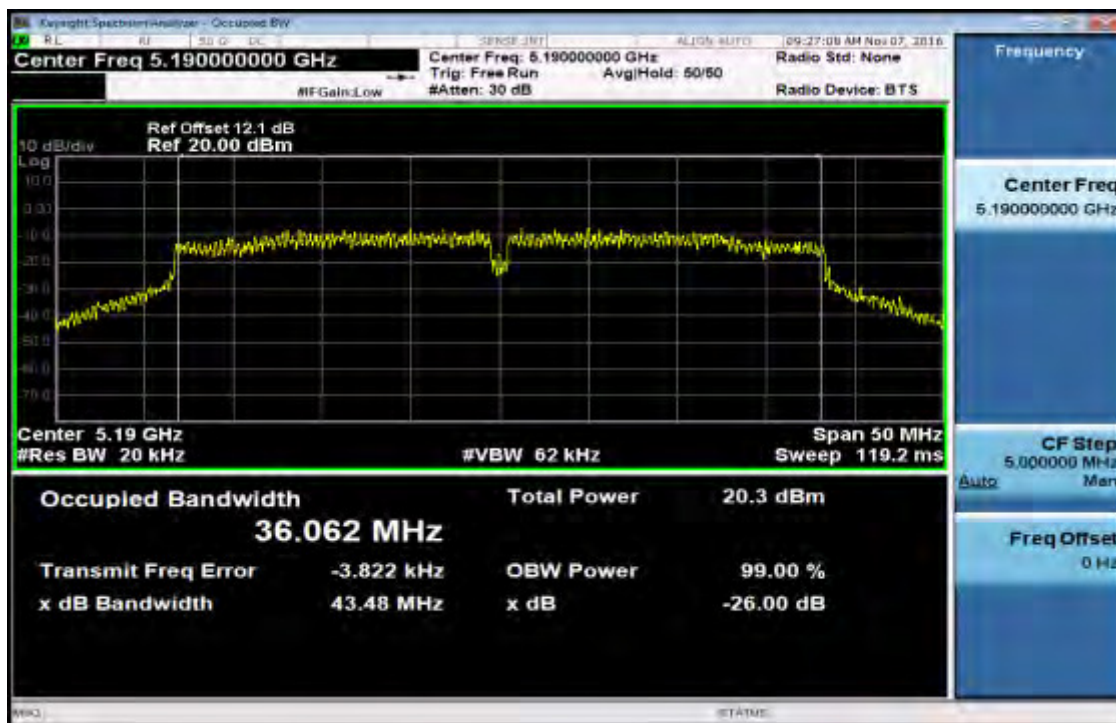
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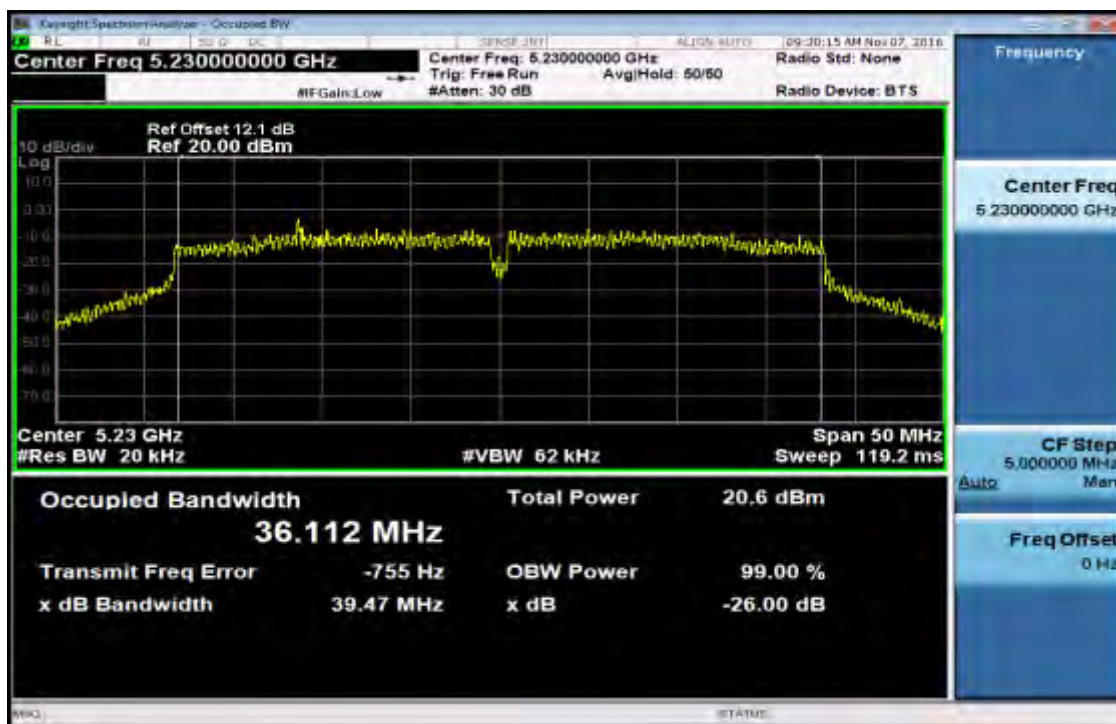
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802.11n HT40, 5150~5250 MHz (Aux)

26dB Band Width Test Data CH-Low (5190 MHz)



26dB Band Width Test Data CH-High (5230 MHz)



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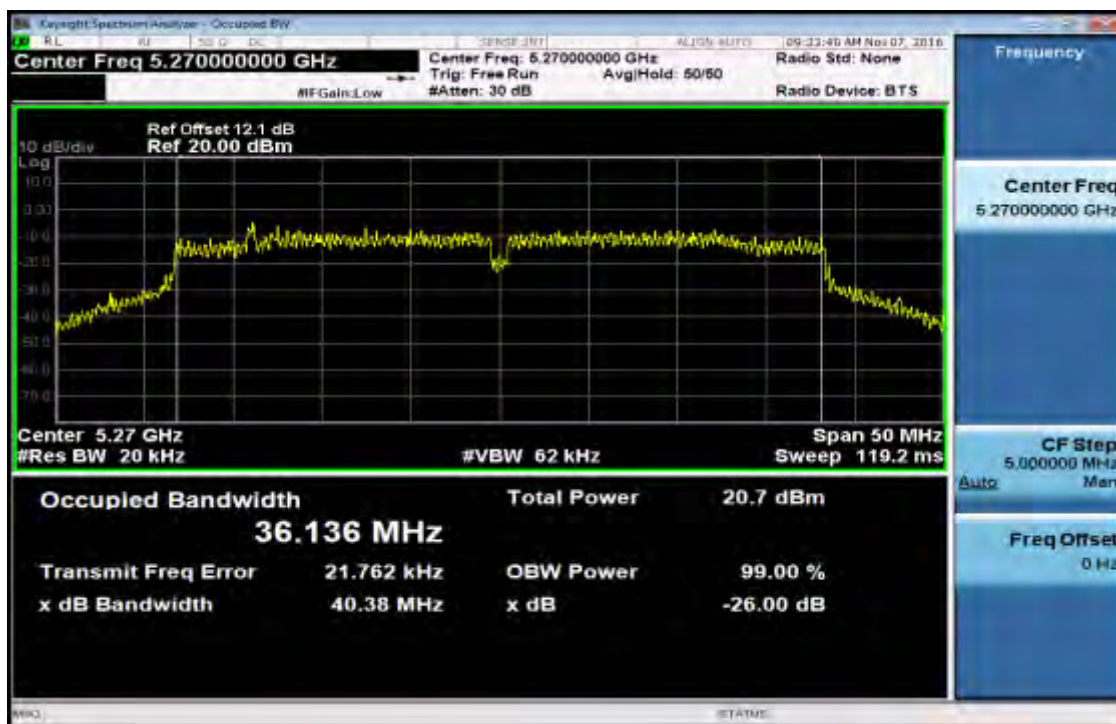
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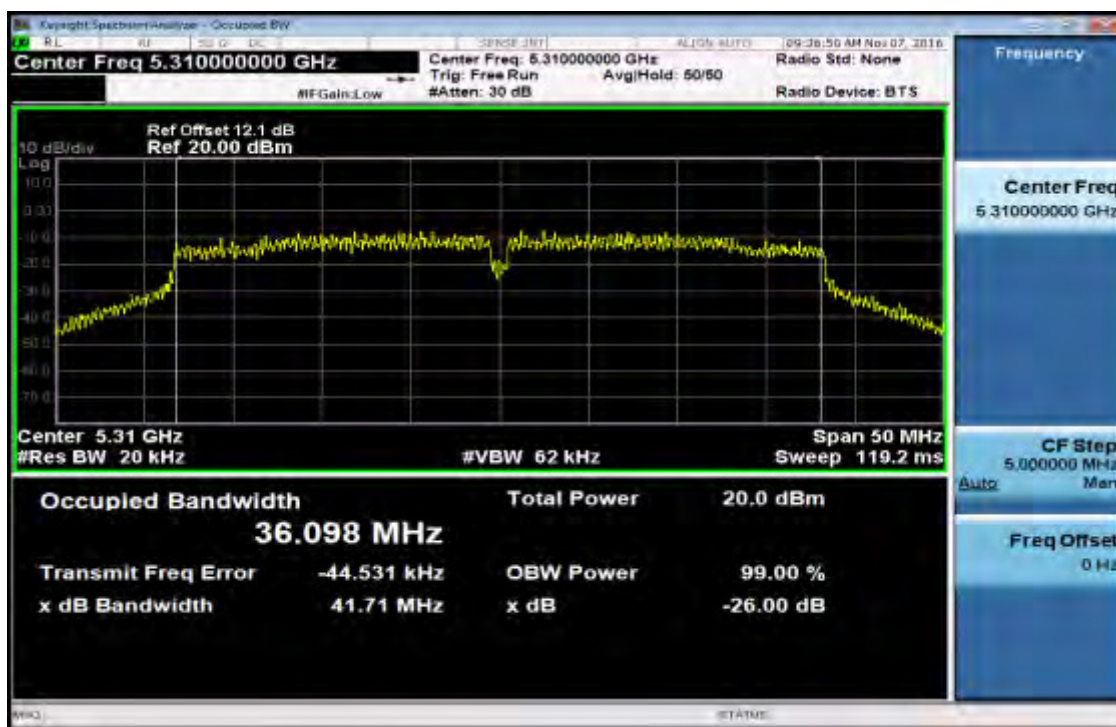
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802.11n HT40, 5250~5350 MHz (Aux) 26dB Band Width Test Data CH-Low (5270 MHz)



26dB Band Width Test Data CH-High (5310MHz)



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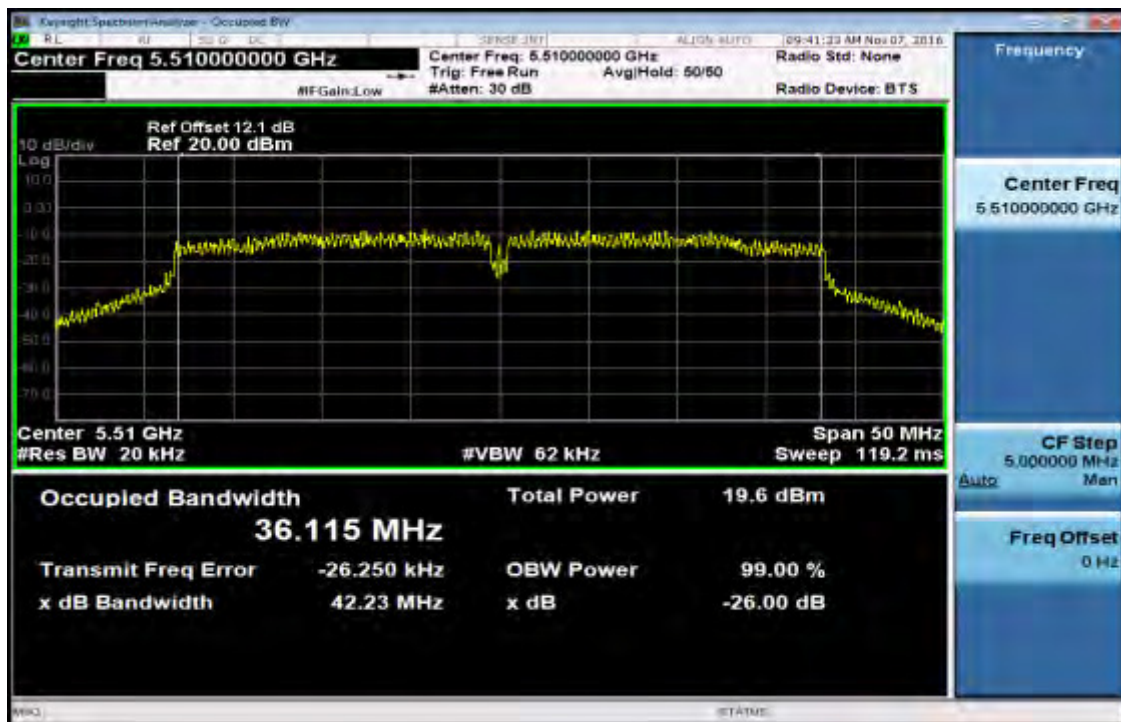
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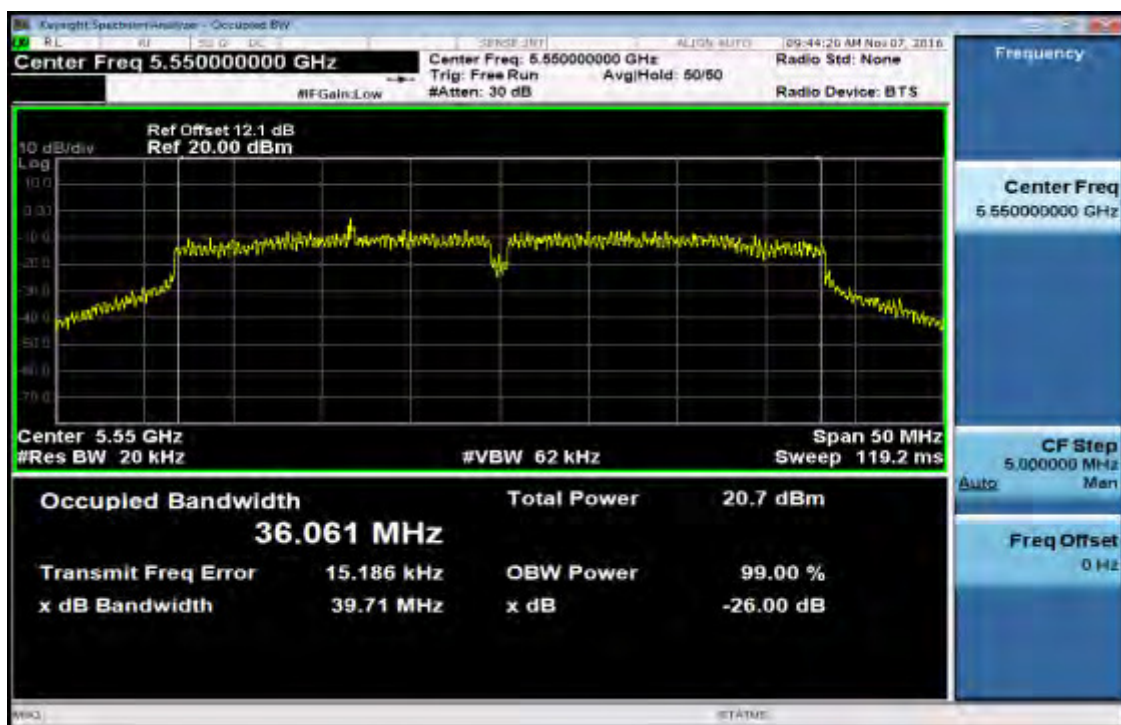
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802.11n HT40, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5510 MHz)



26dB Band Width Test Data CH-Mid (5550 MHz)



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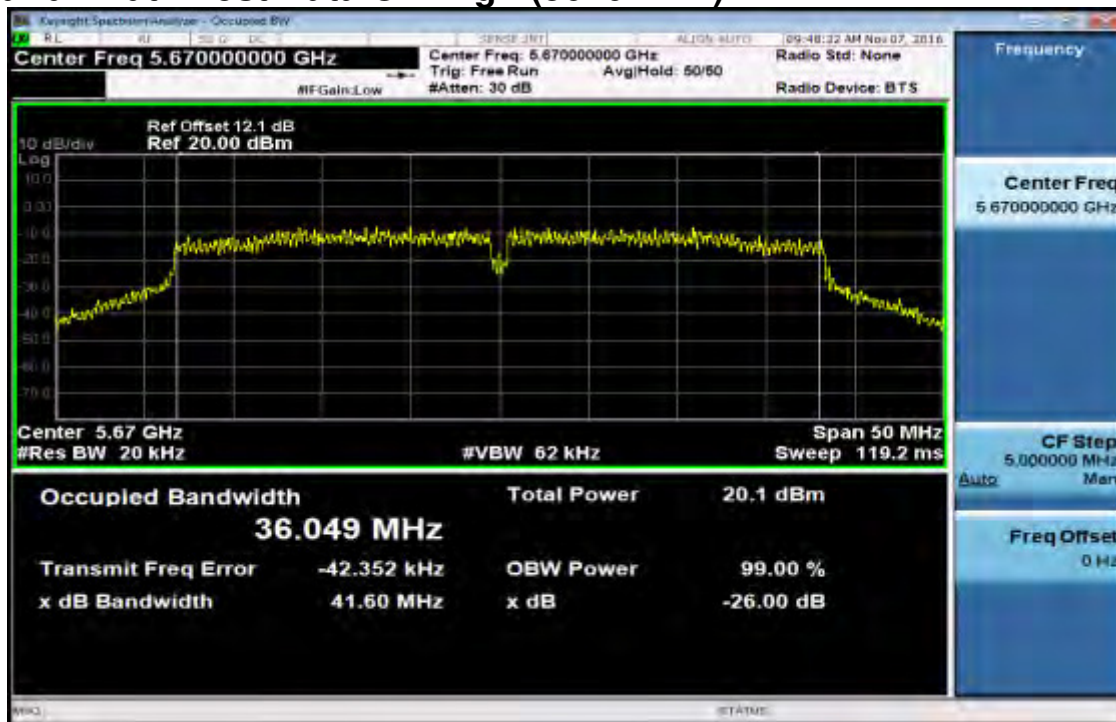
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26dB Band Width Test Data CH-High (5670 MHz)



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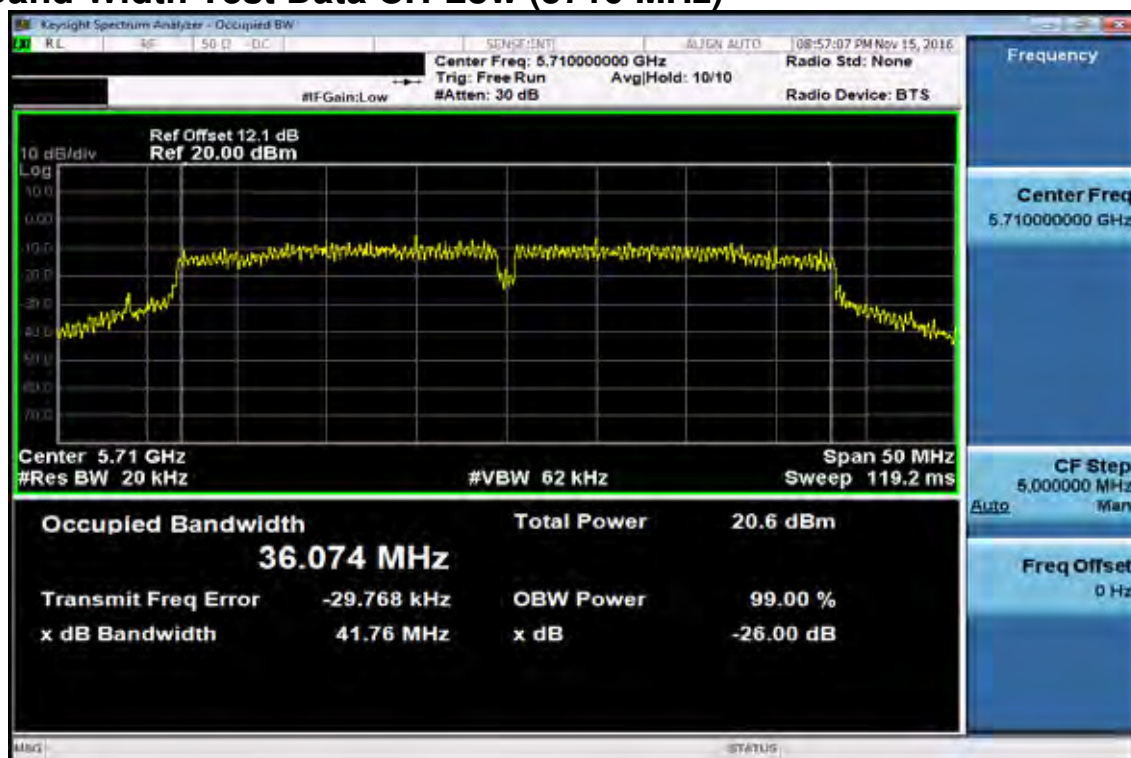
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802.11n HT40, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5710 MHz)



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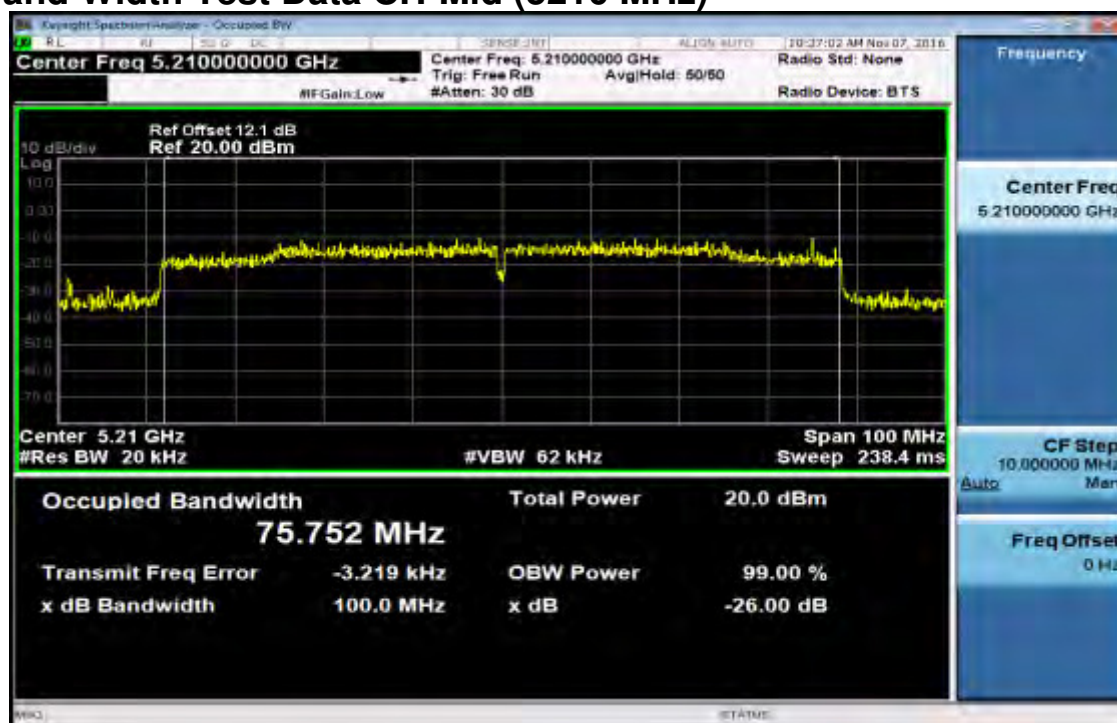
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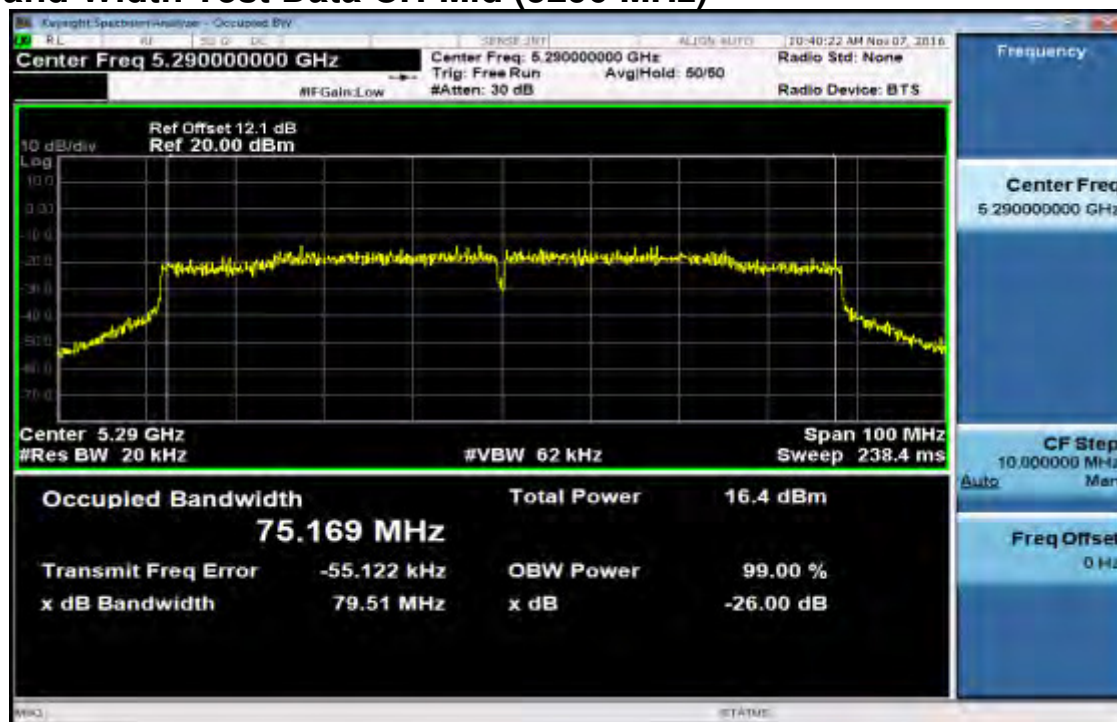
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz 26dB Band Width Test Data CH-Mid (5290 MHz)



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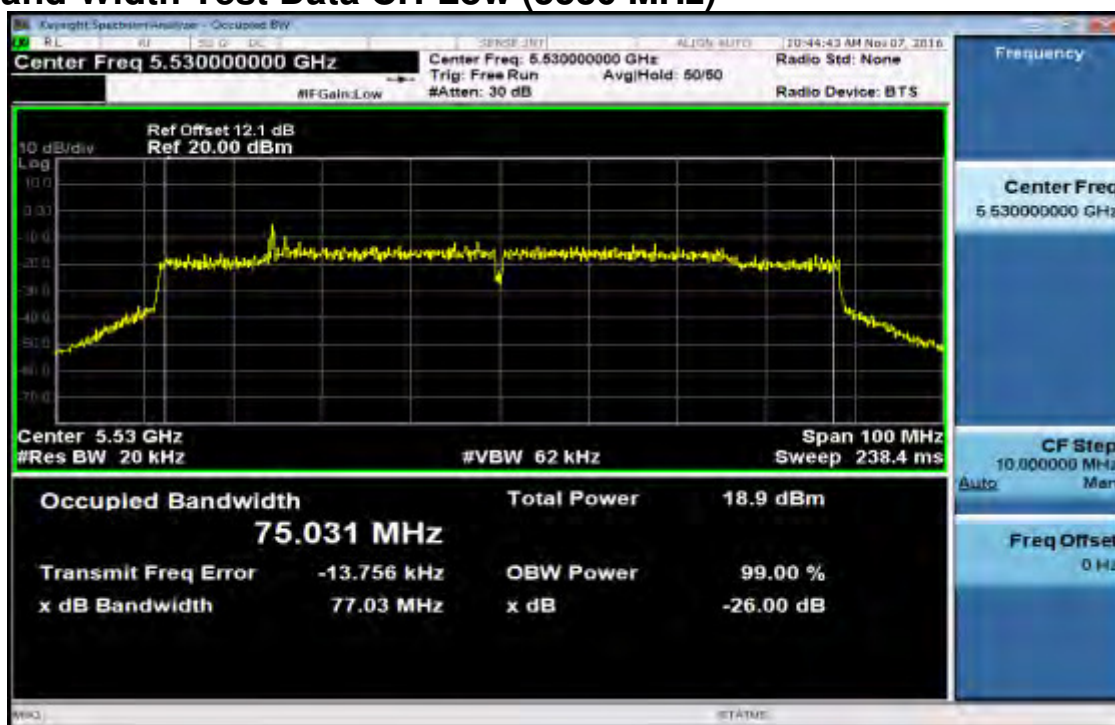
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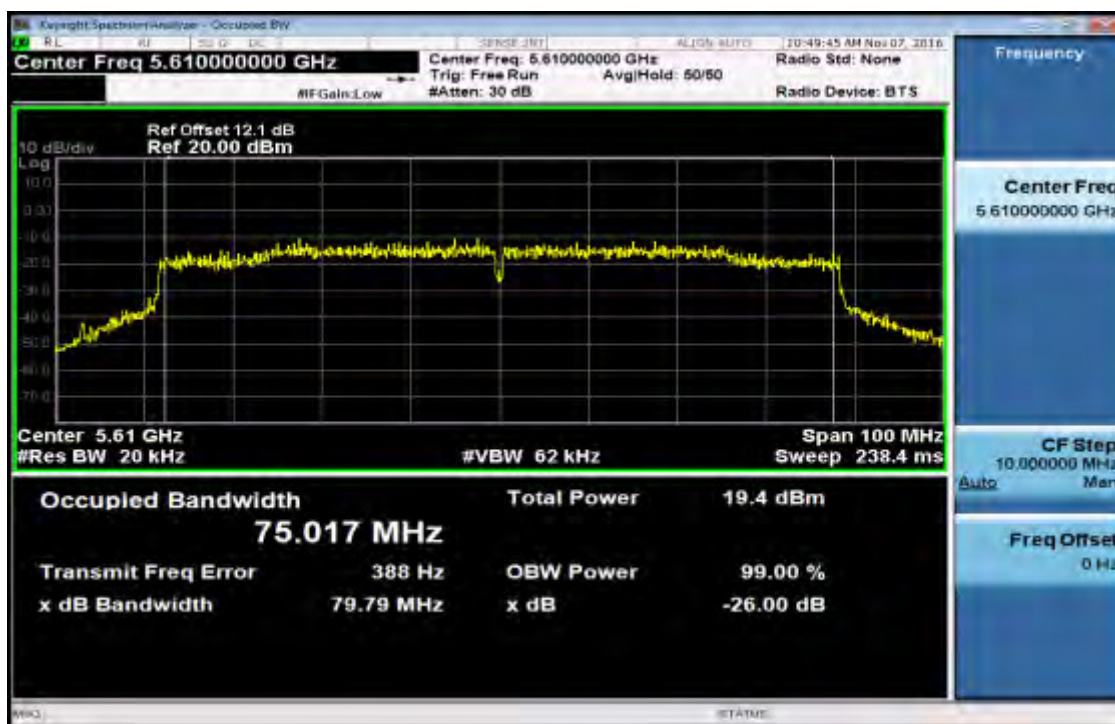
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802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5530 MHz)



26dB Band Width Test Data CH-Low (5610 MHz)



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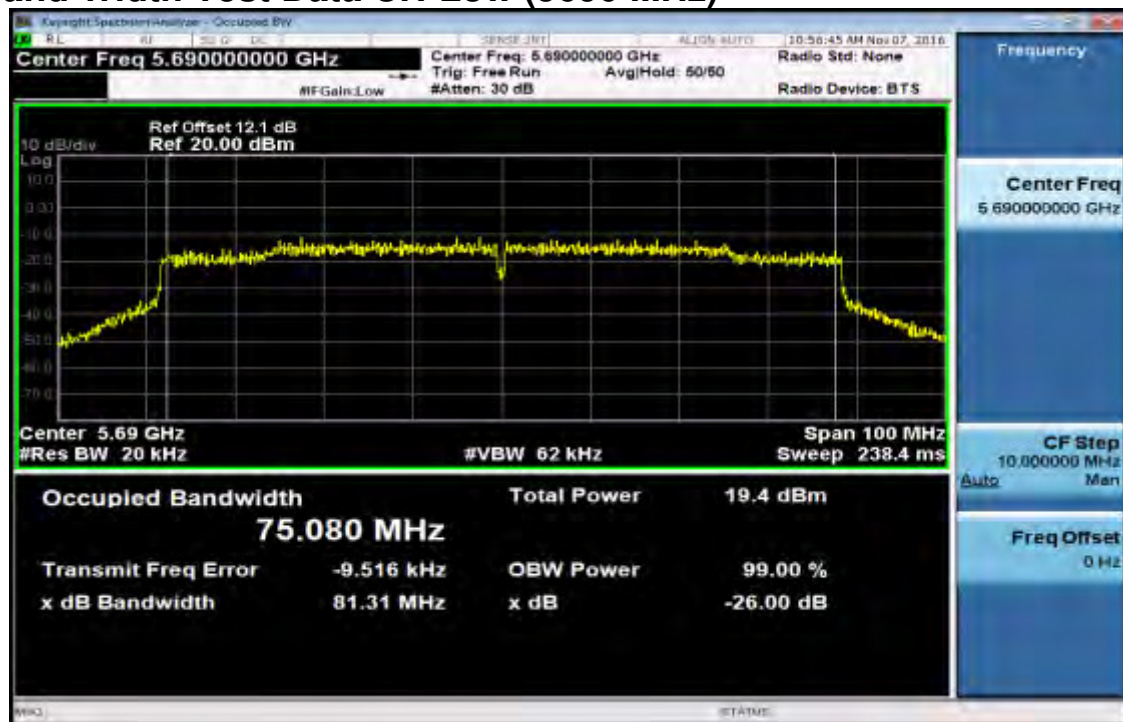
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802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5690 MHz)



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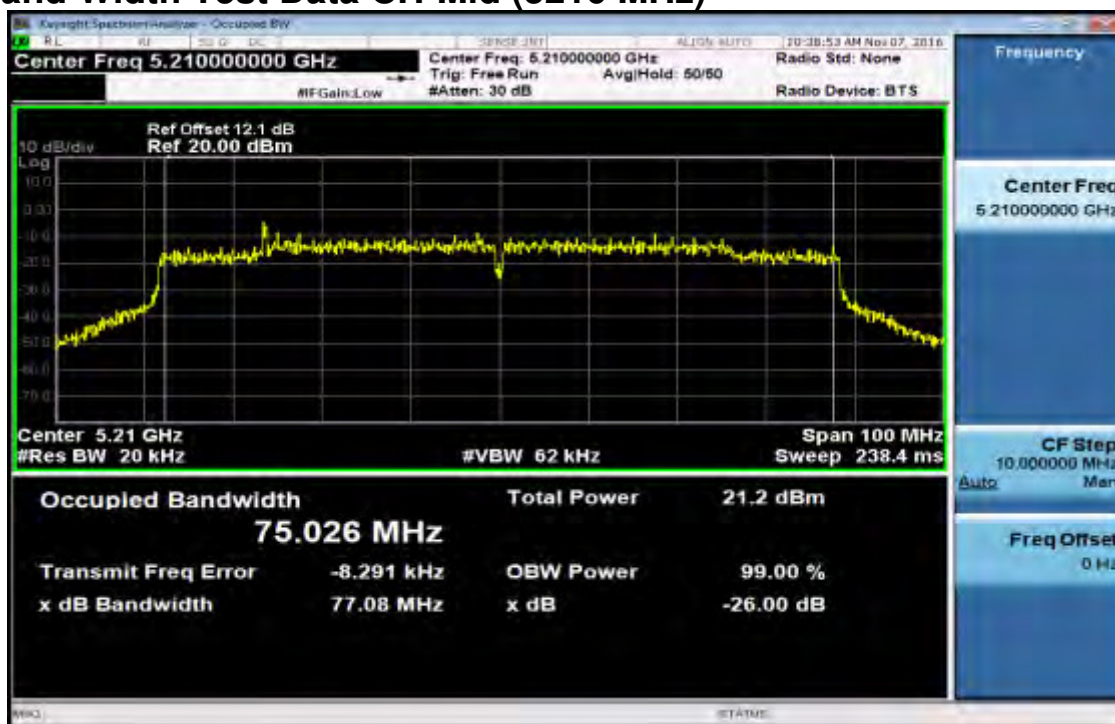
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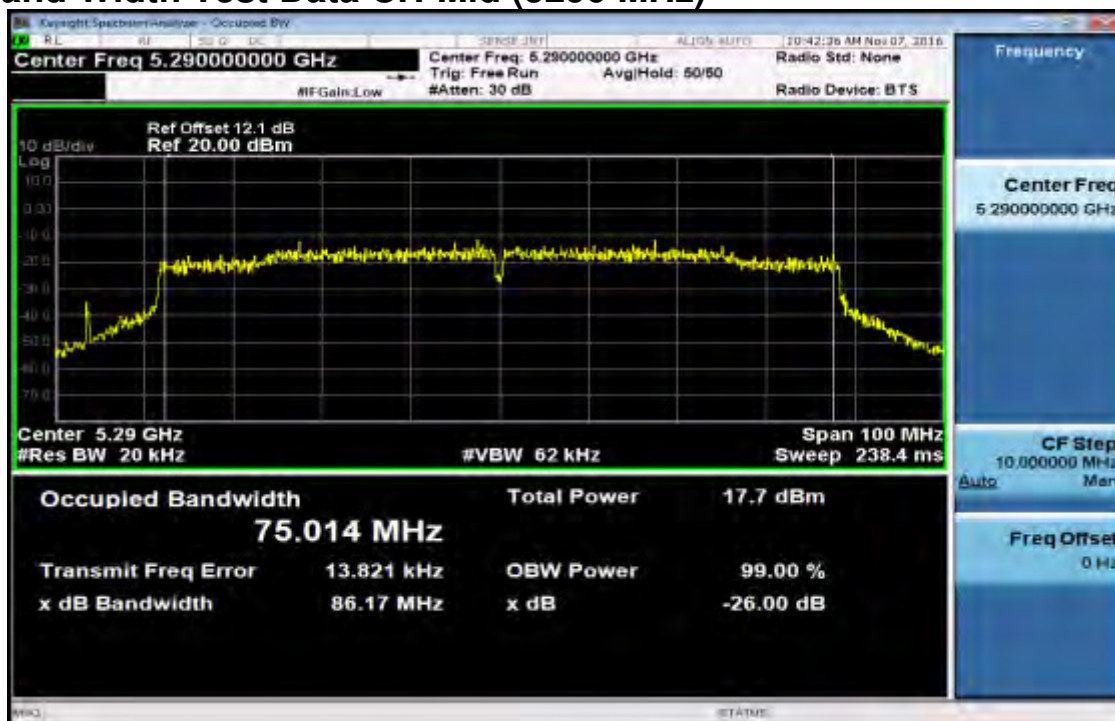
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802.11ac VHT80, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz 26dB Band Width Test Data CH-Mid (5290 MHz)



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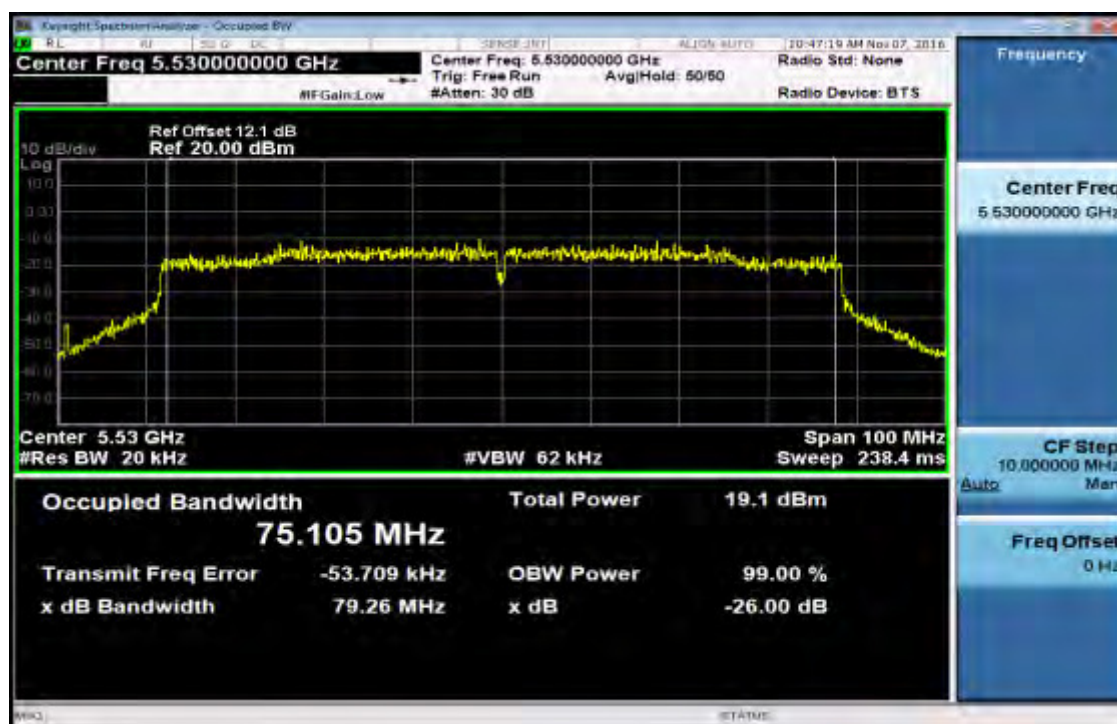
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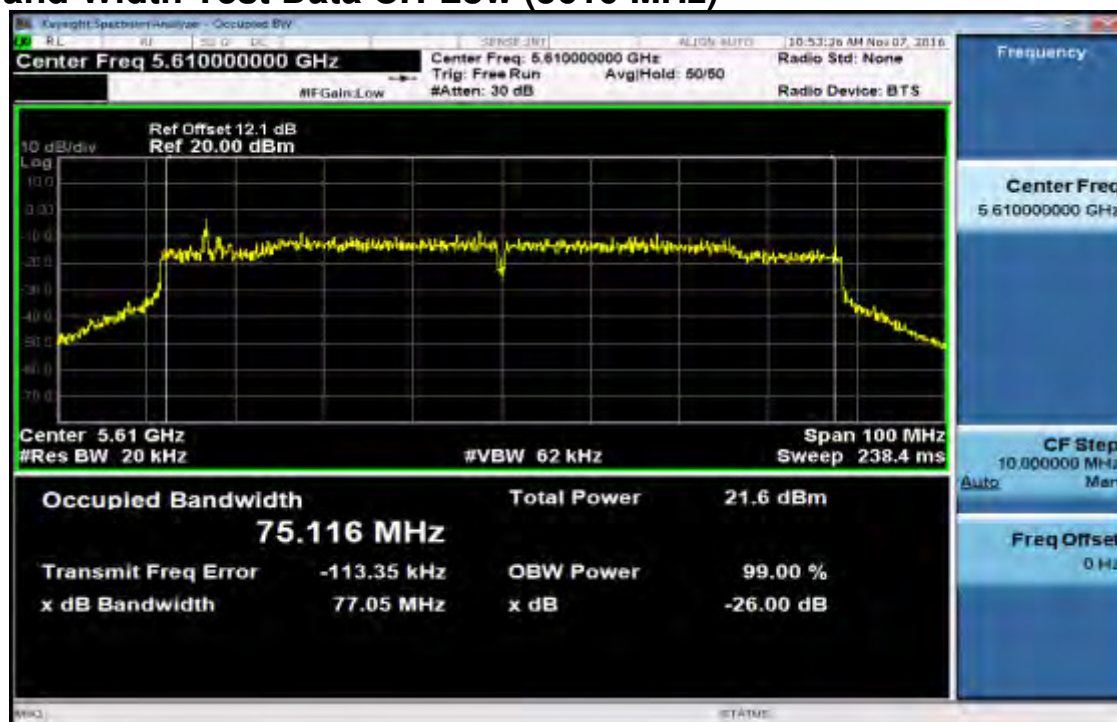
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802.11ac VHT80, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5530 MHz)



26dB Band Width Test Data CH-Low (5610 MHz)



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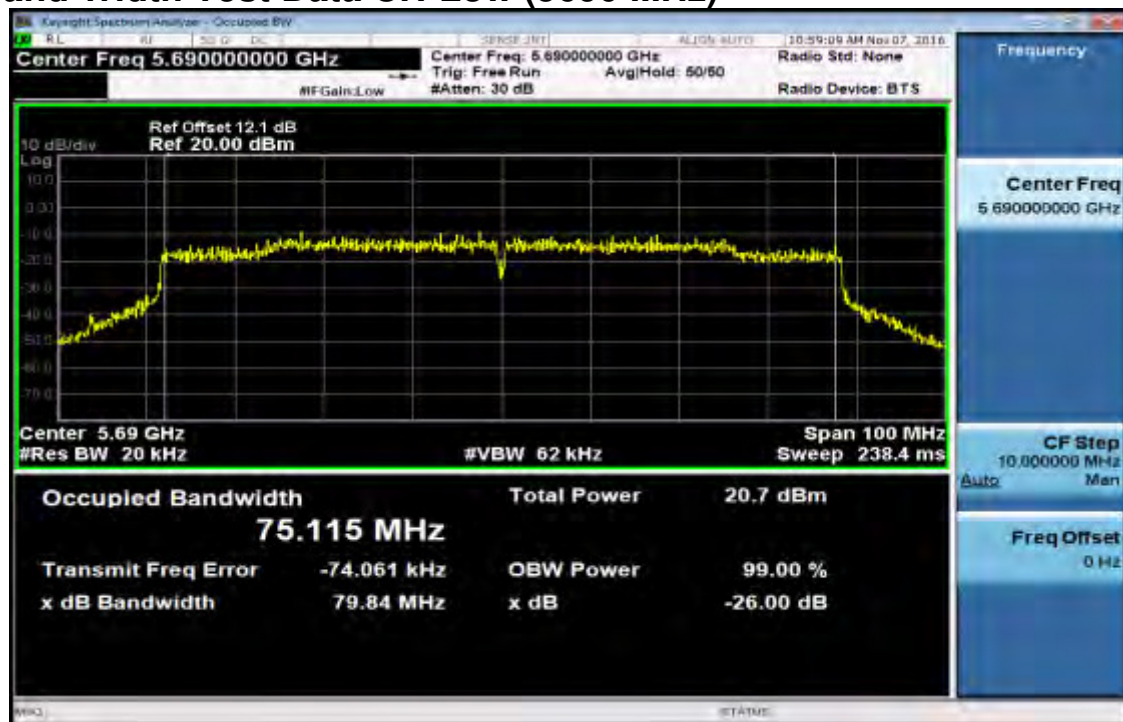
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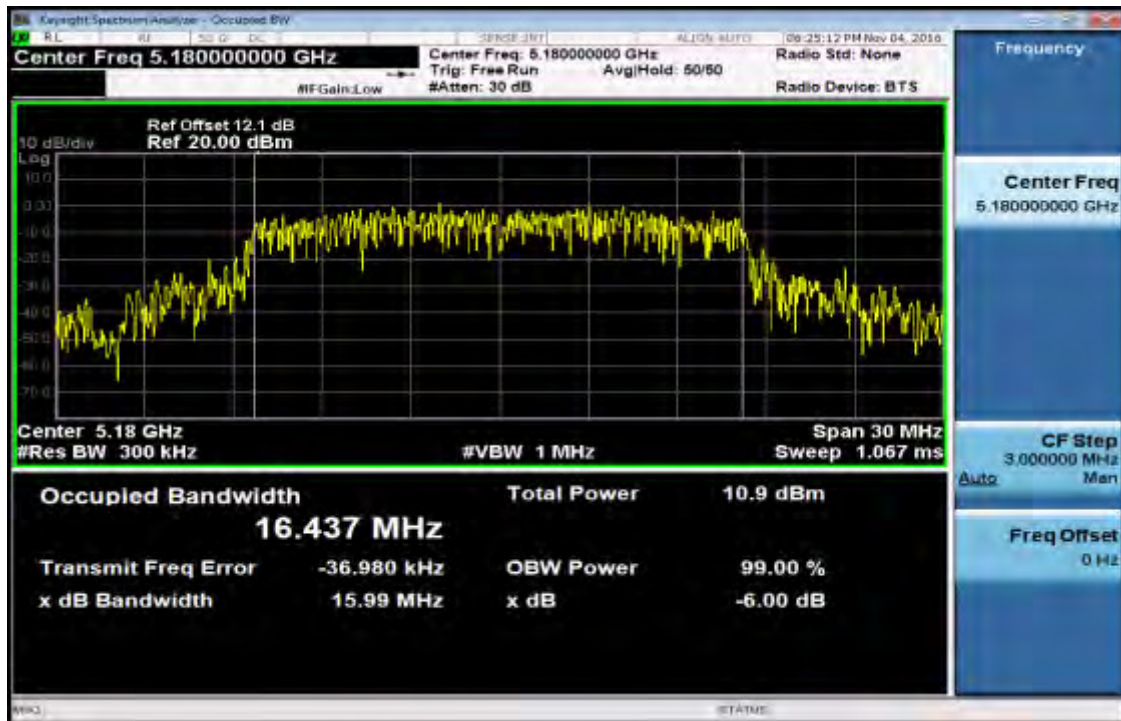
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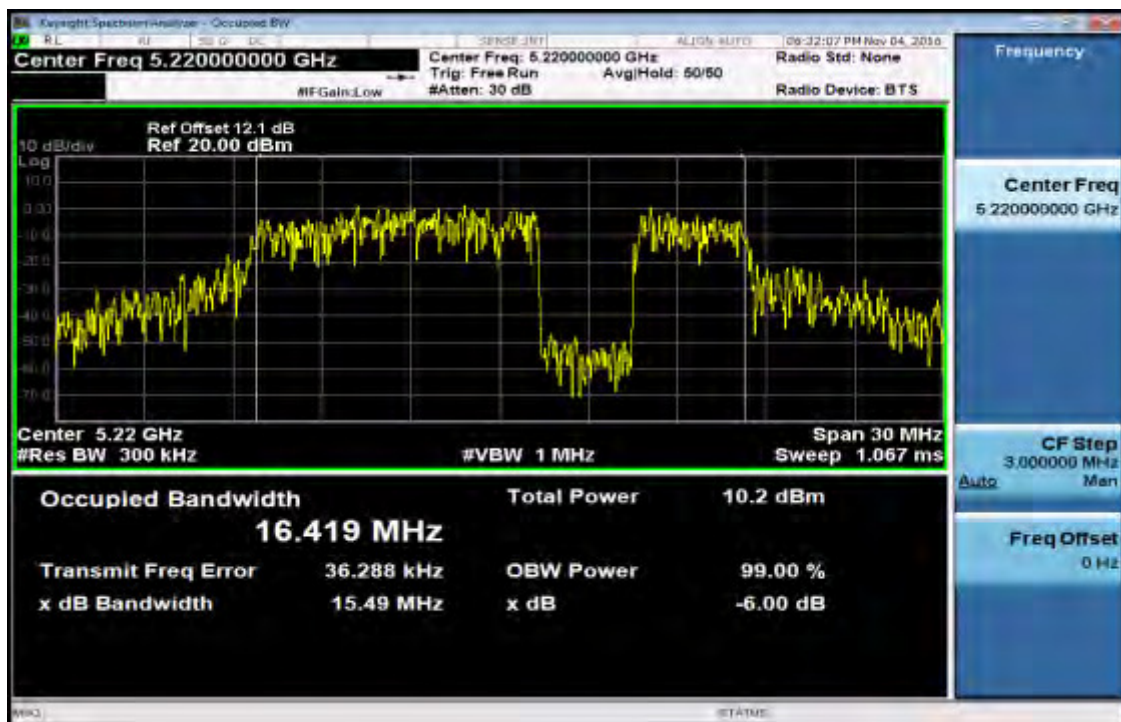
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802.11a, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180MHz)



99% Band Width Test Data CH-Mid (5220MHz)



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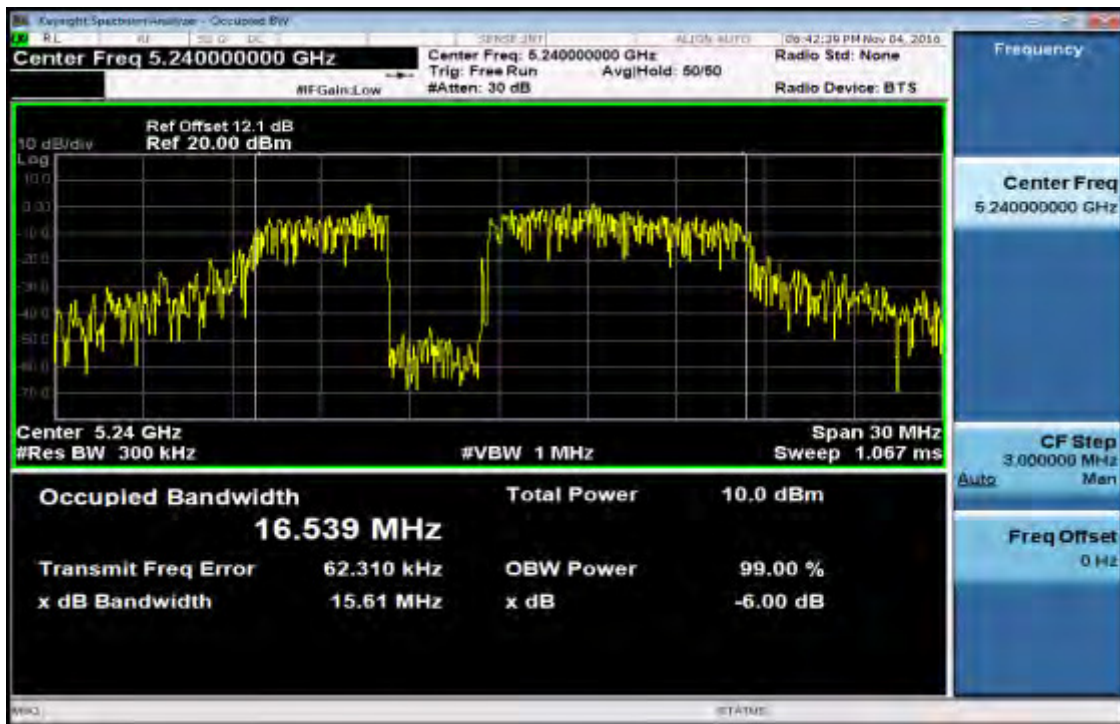
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99% Band Width Test Data CH-High (5240MHz)



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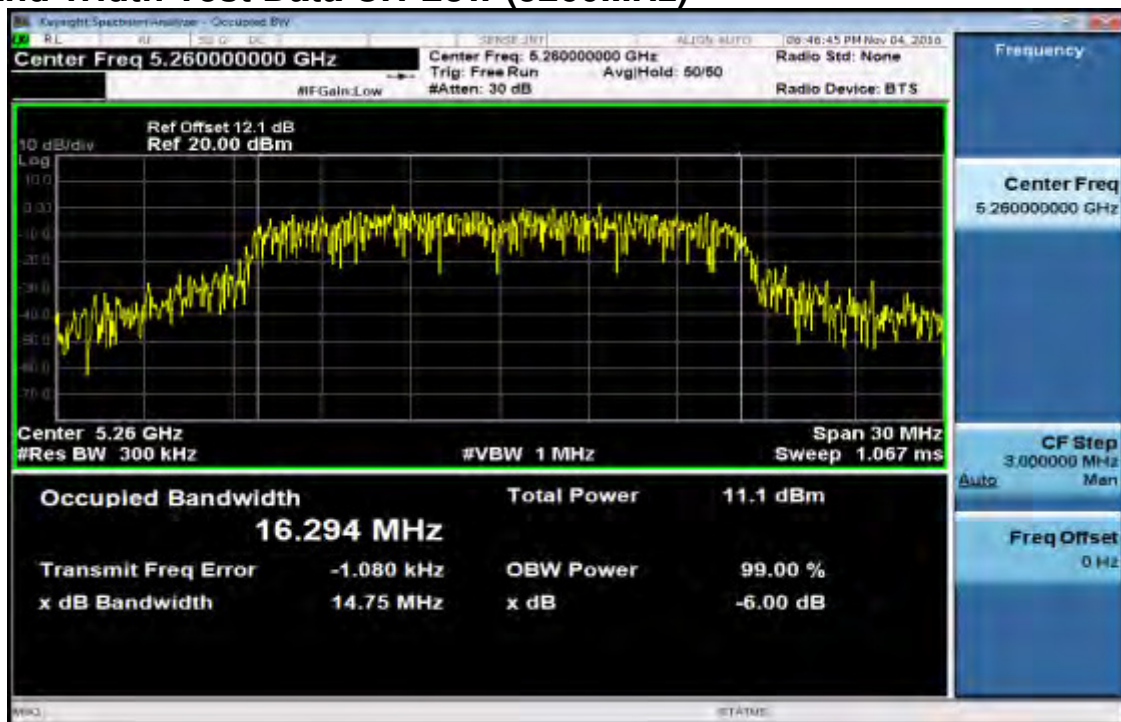
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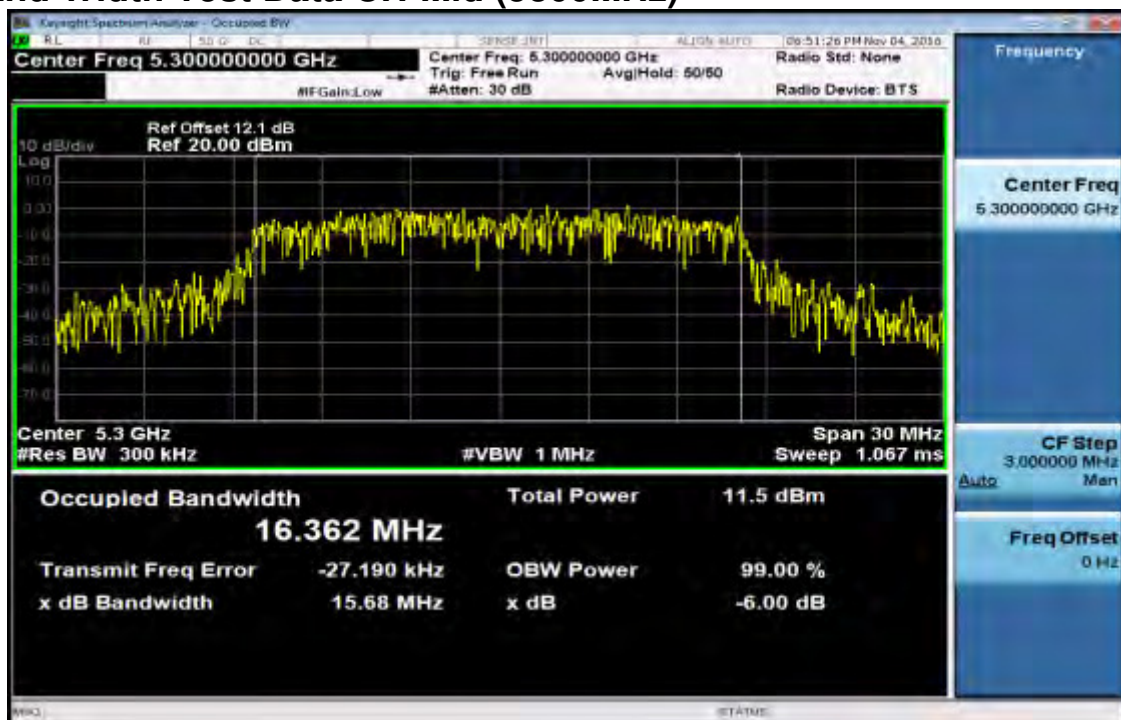
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802.11a, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260MHz)



99% Band Width Test Data CH-Mid (5300MHz)



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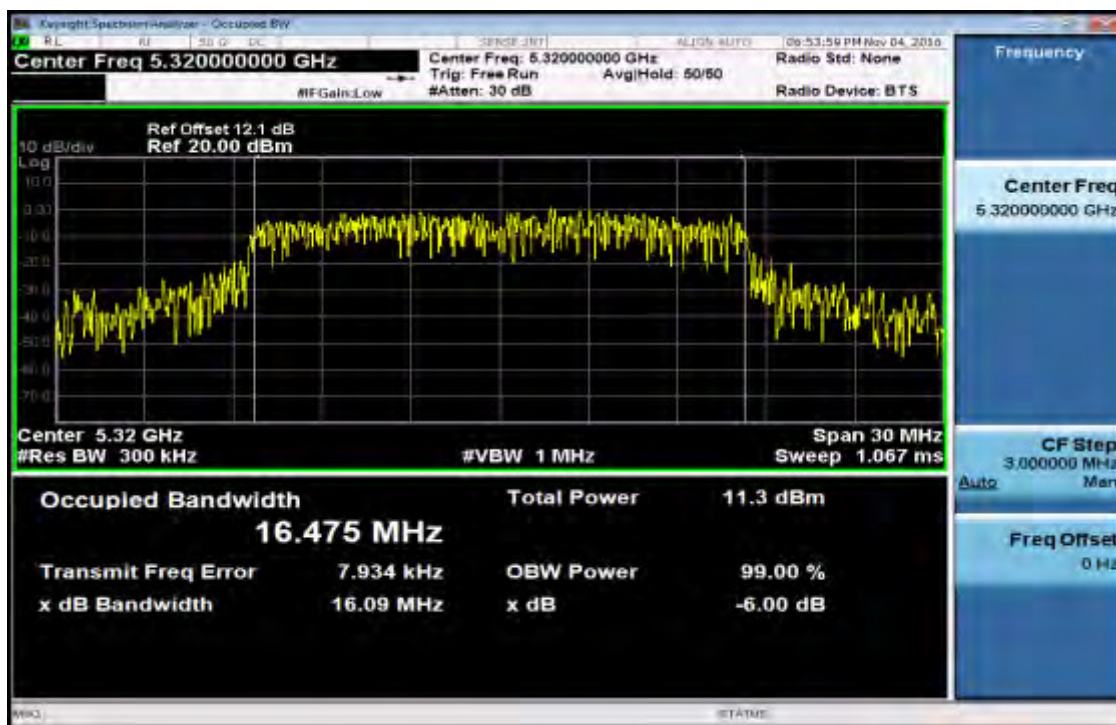
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99% Band Width Test Data CH-High (5320MHz)



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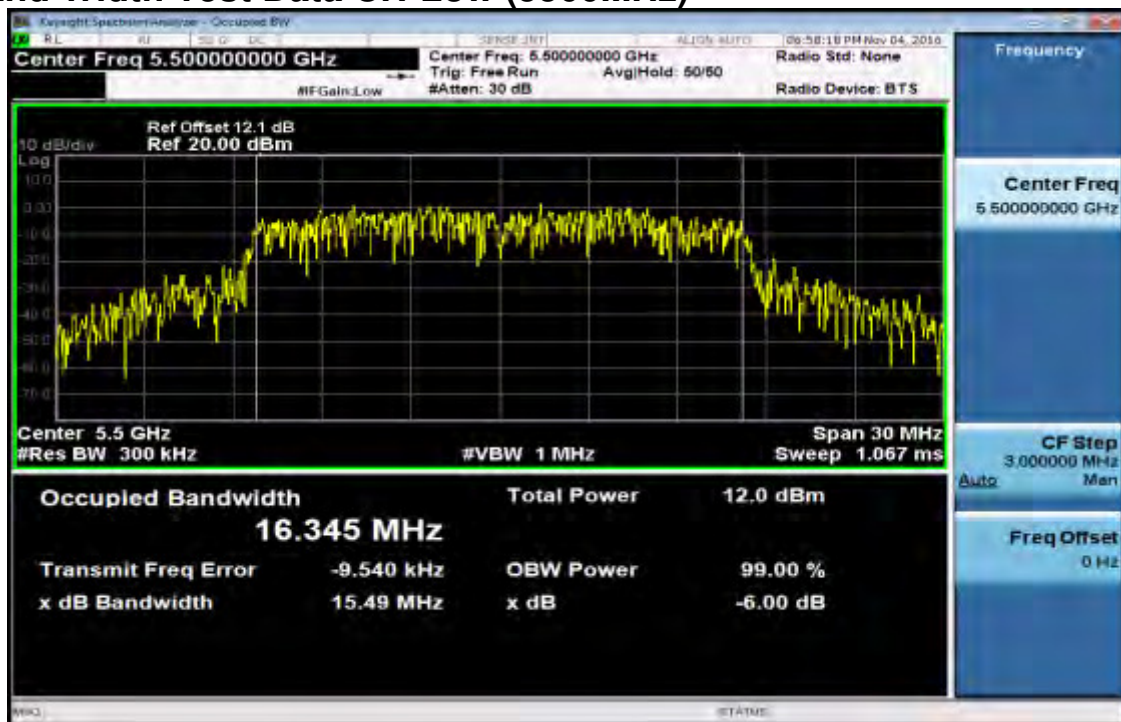
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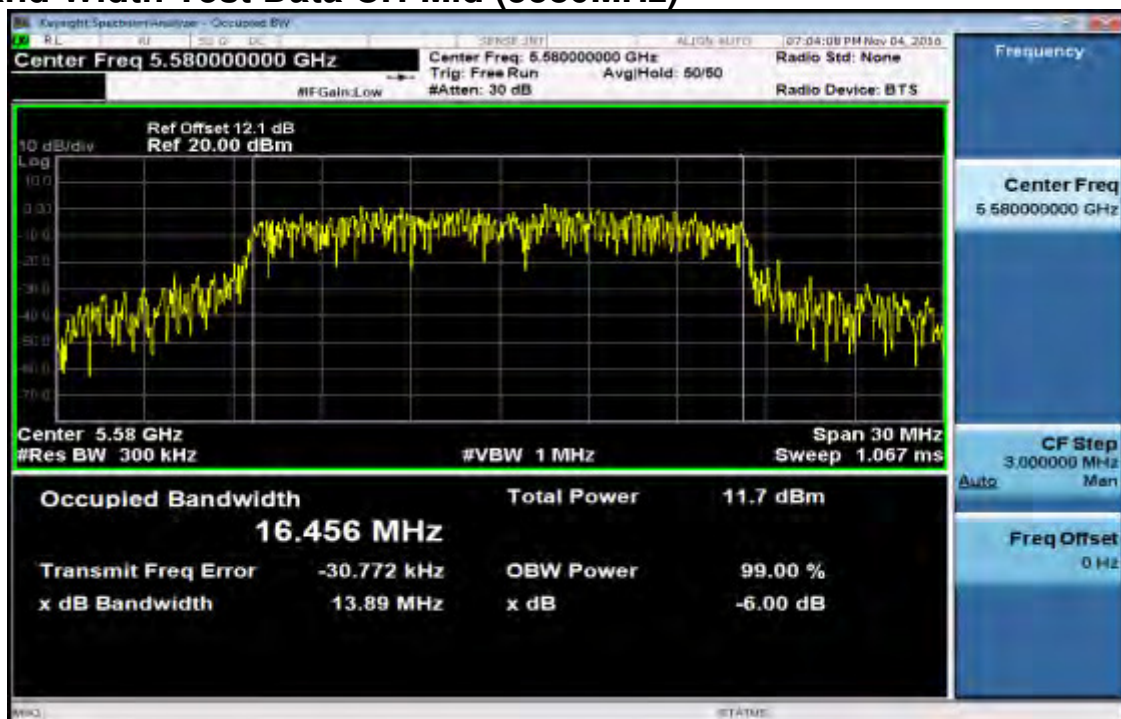
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802.11a, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500MHz)



99% Band Width Test Data CH-Mid (5580MHz)



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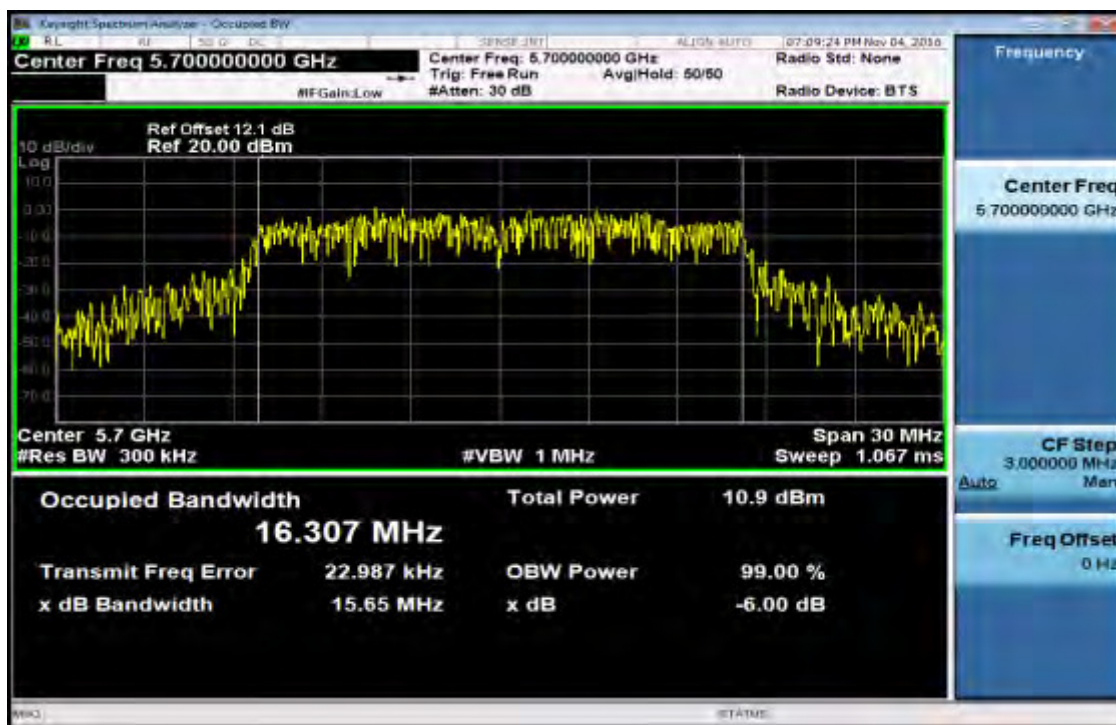
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99% Band Width Test Data CH-High (5700MHz)



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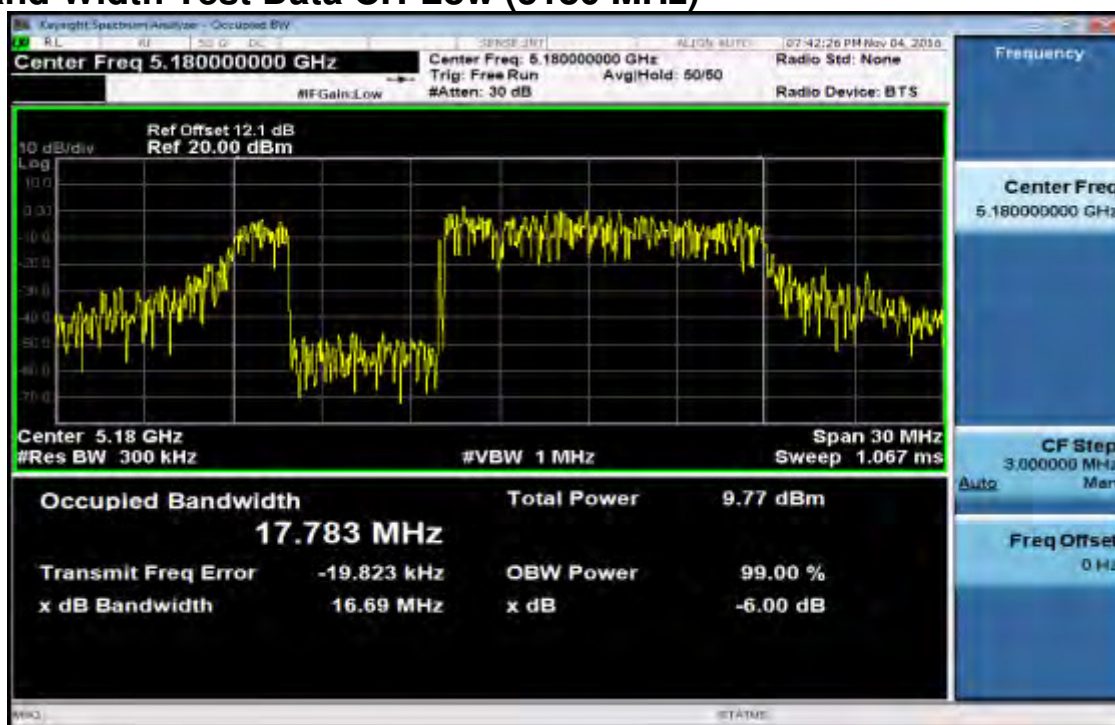
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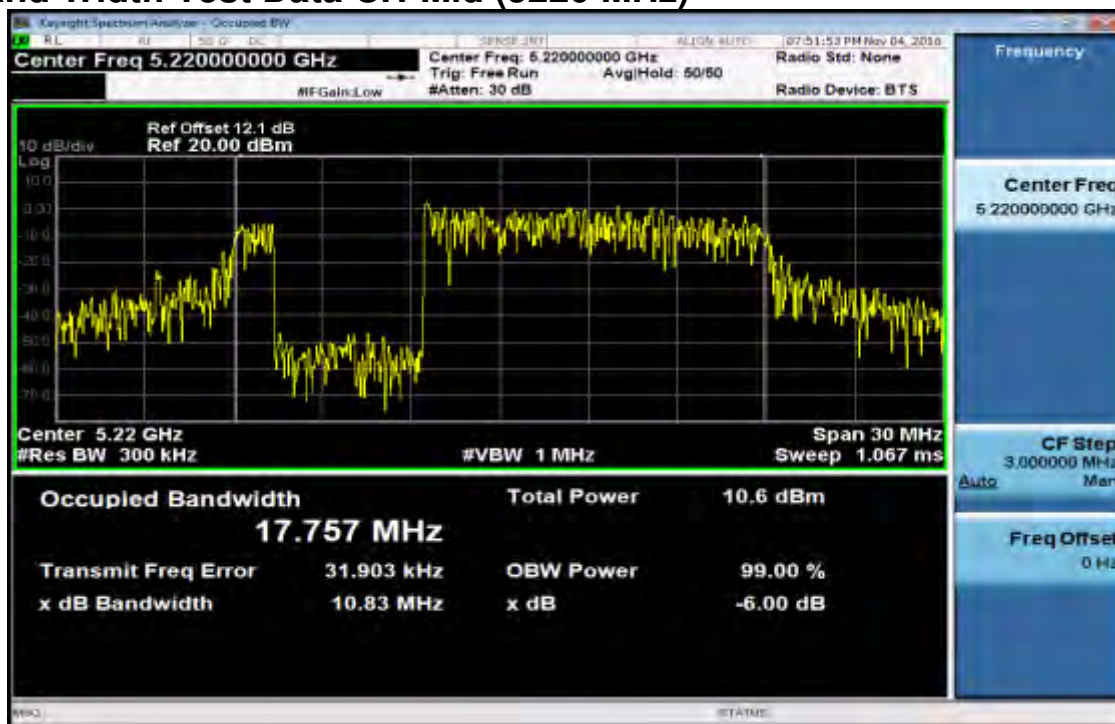
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802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180 MHz)



99% Band Width Test Data CH-Mid (5220 MHz)



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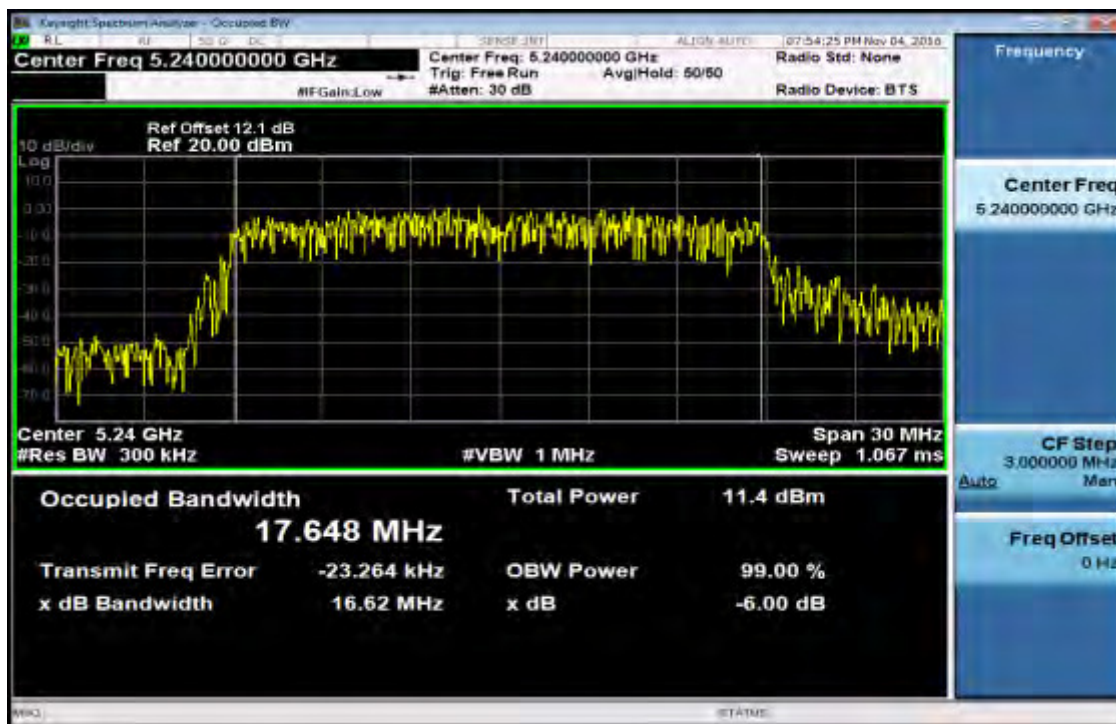
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99% Band Width Test Data CH-High (5240 MHz)



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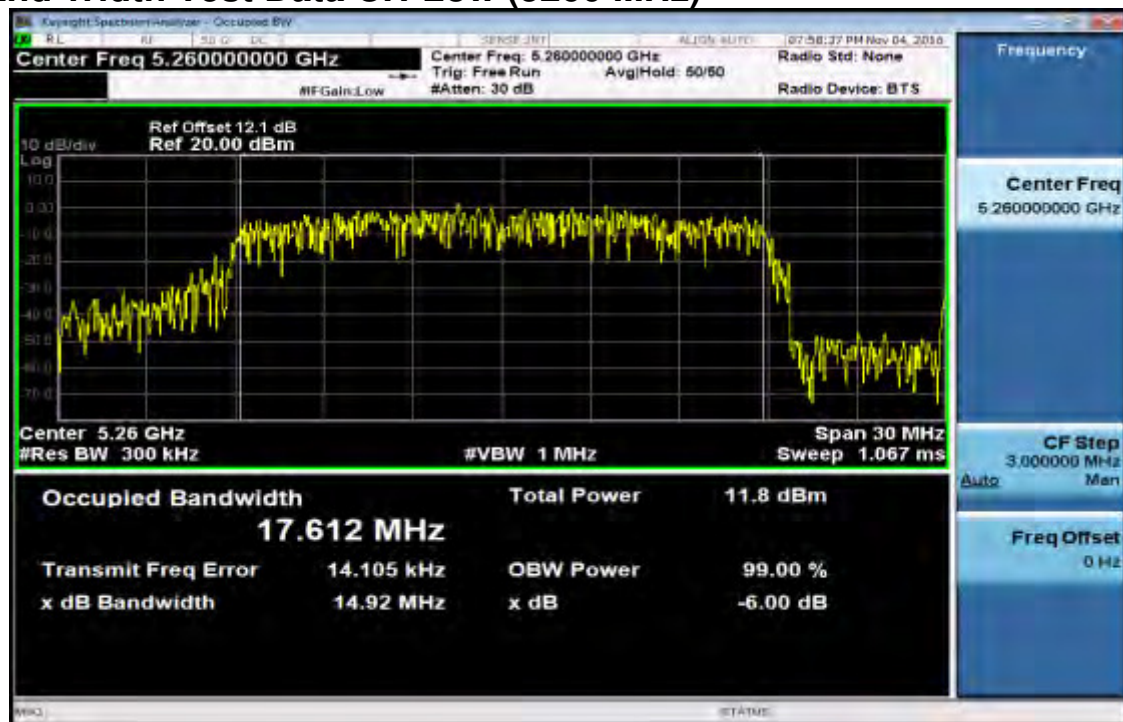
t (886-2) 2299-3279

f (886-2) 2298-0488

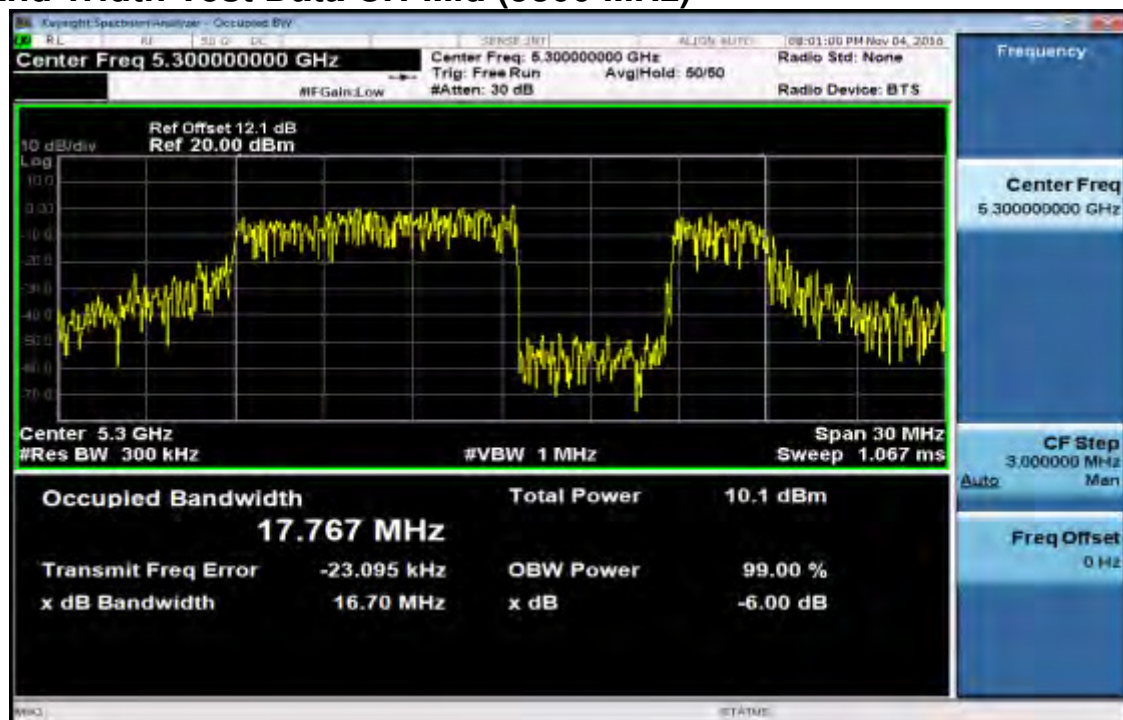
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802.11n HT20, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260 MHz)



99% Band Width Test Data CH-Mid (5300 MHz)



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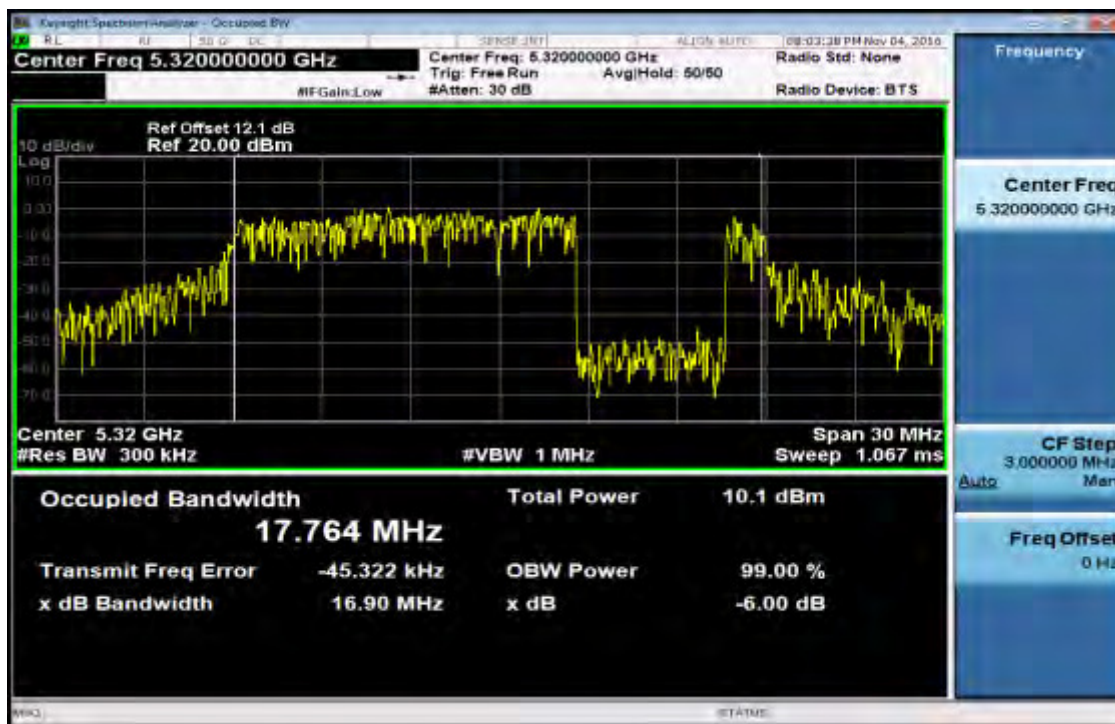
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99% Band Width Test Data CH-High (5320 MHz)



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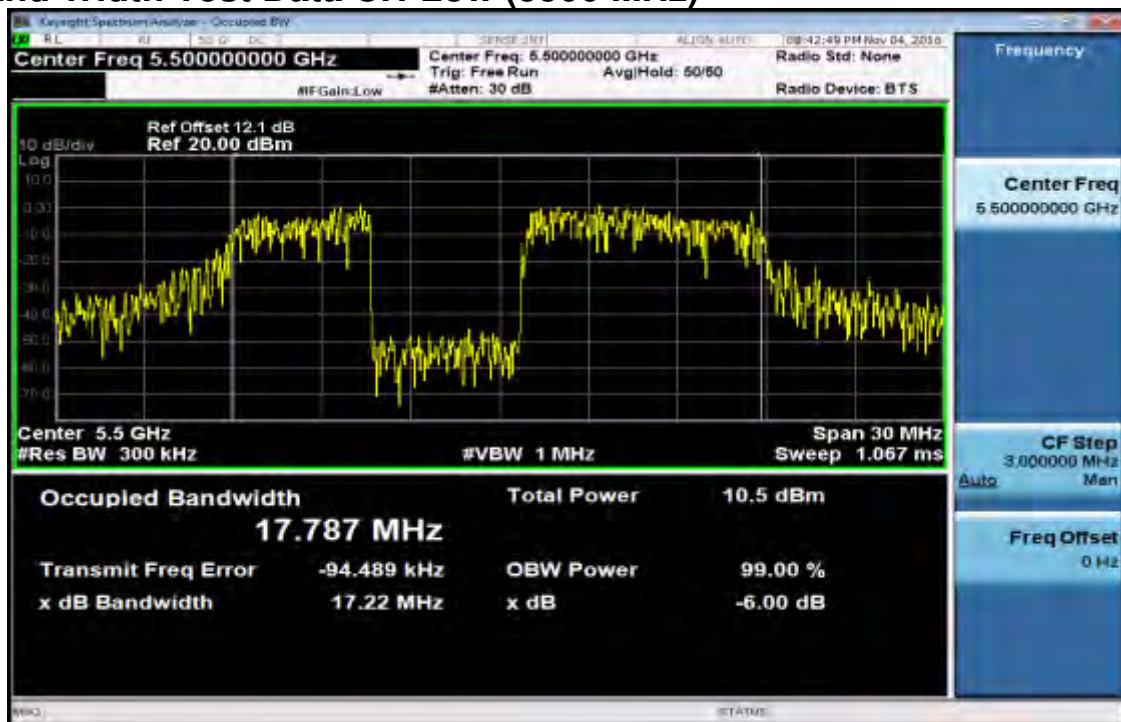
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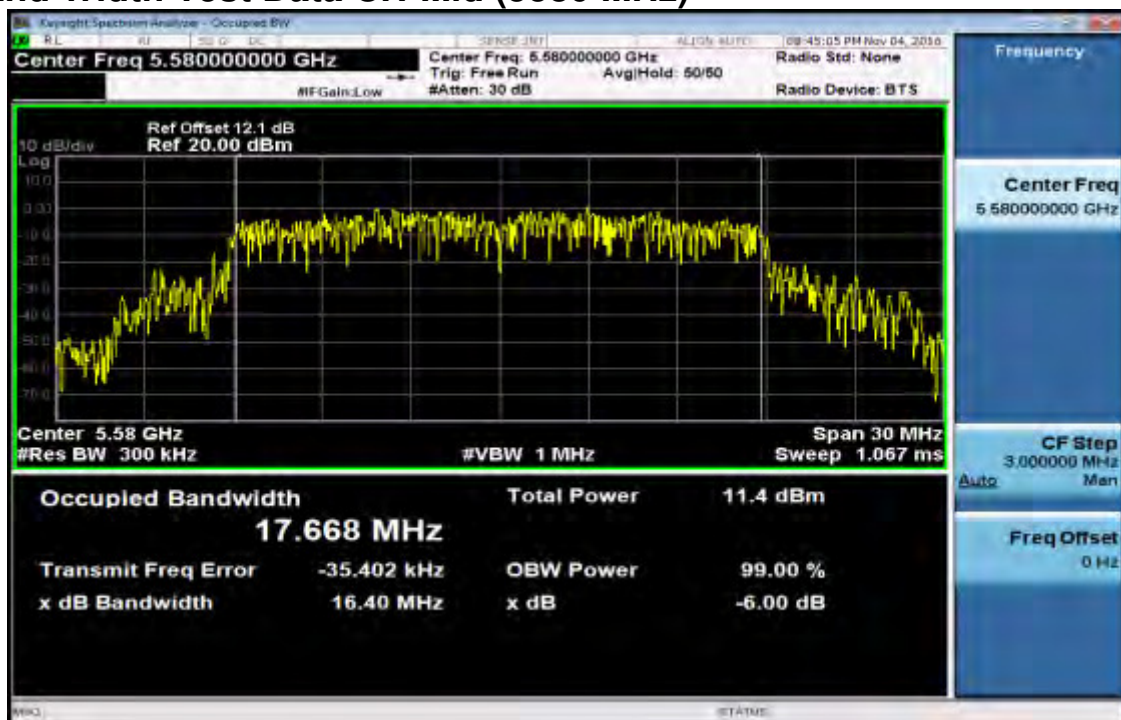
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802.11n HT20, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500 MHz)



99% Band Width Test Data CH-Mid (5580 MHz)



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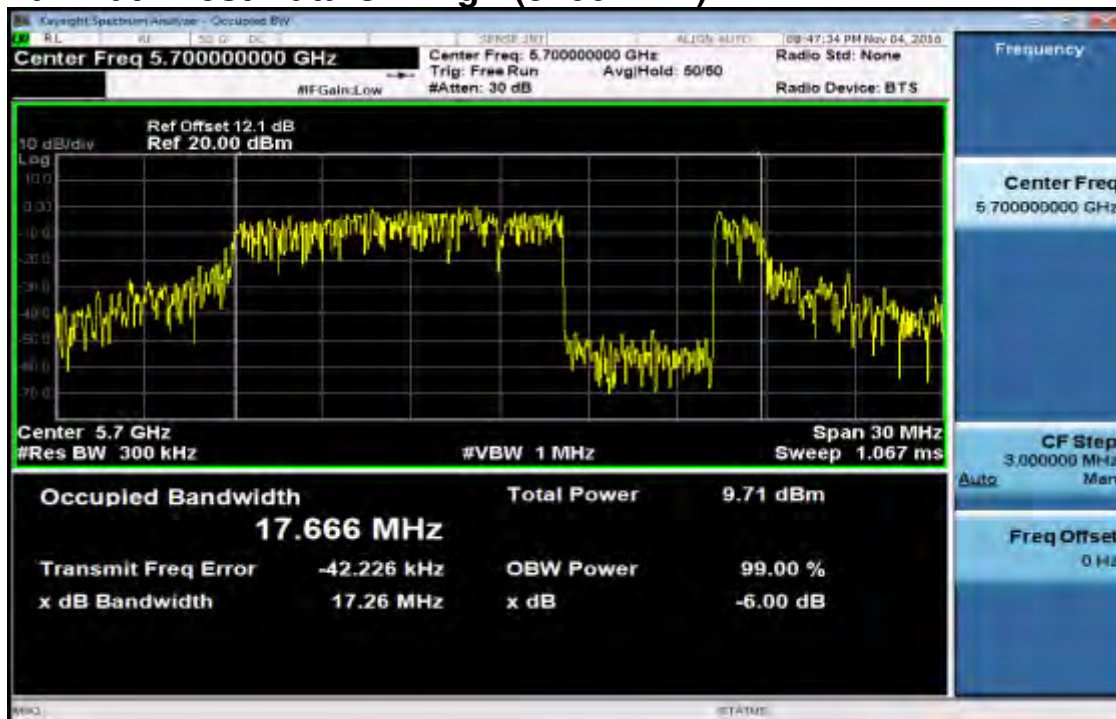
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99% Band Width Test Data CH-High (5700 MHz)



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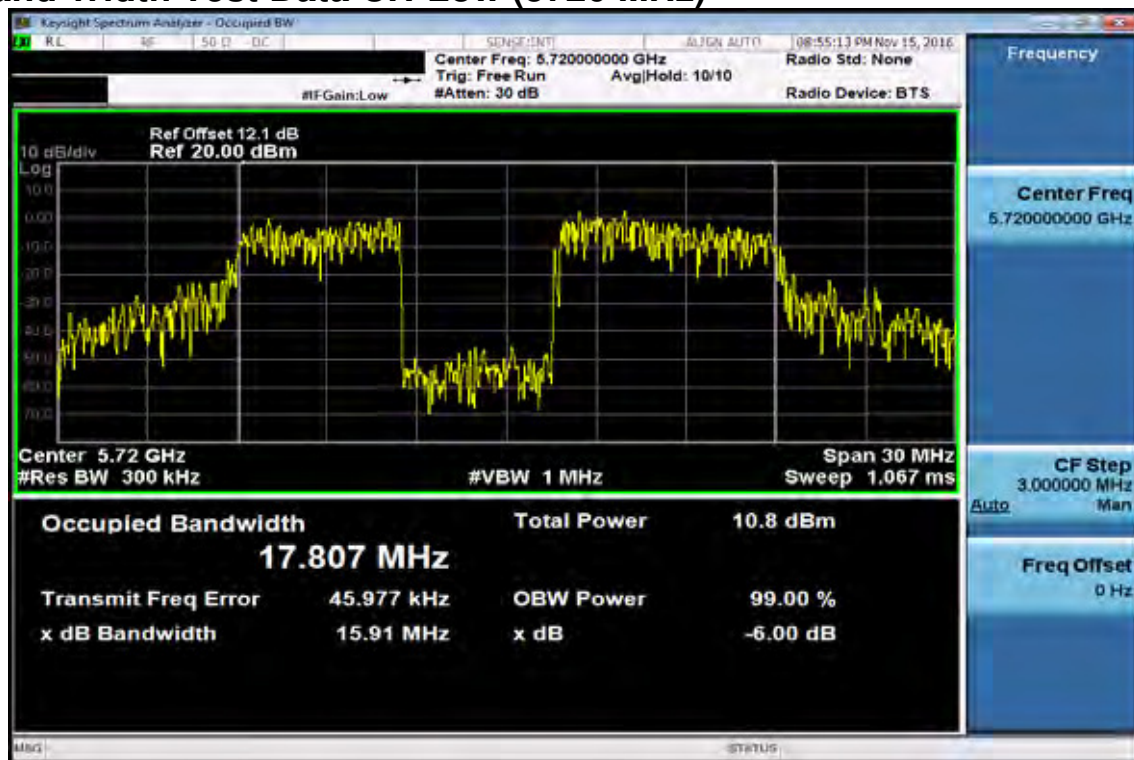
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802.11n HT20, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5720 MHz)



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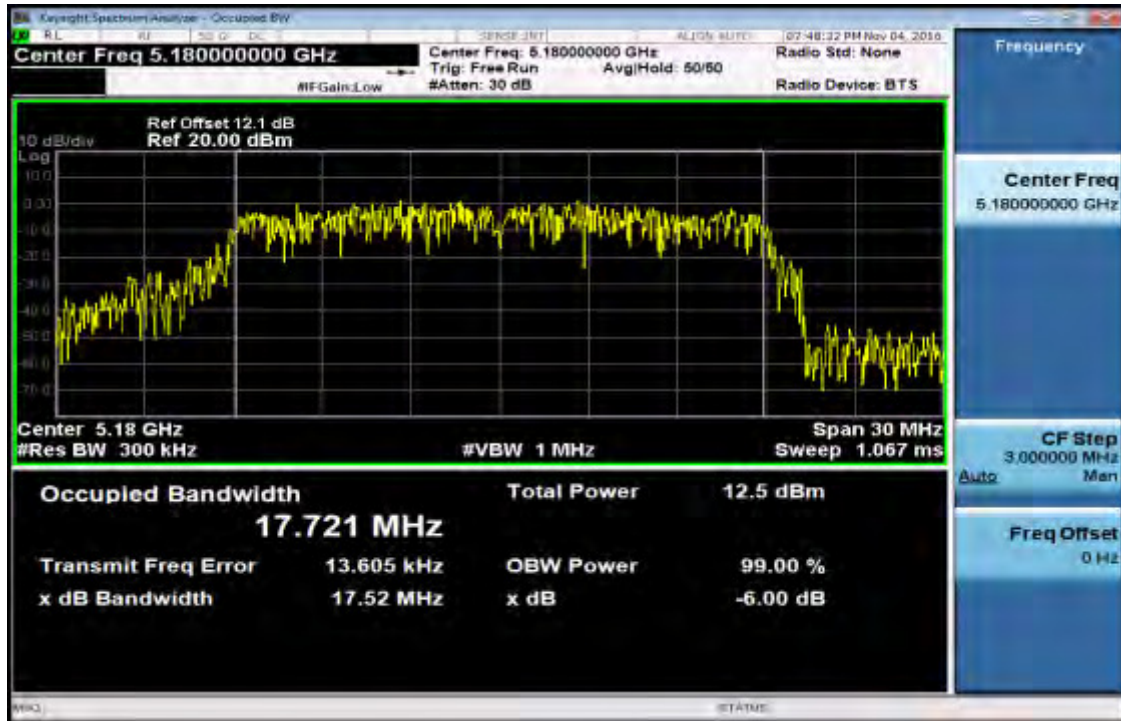
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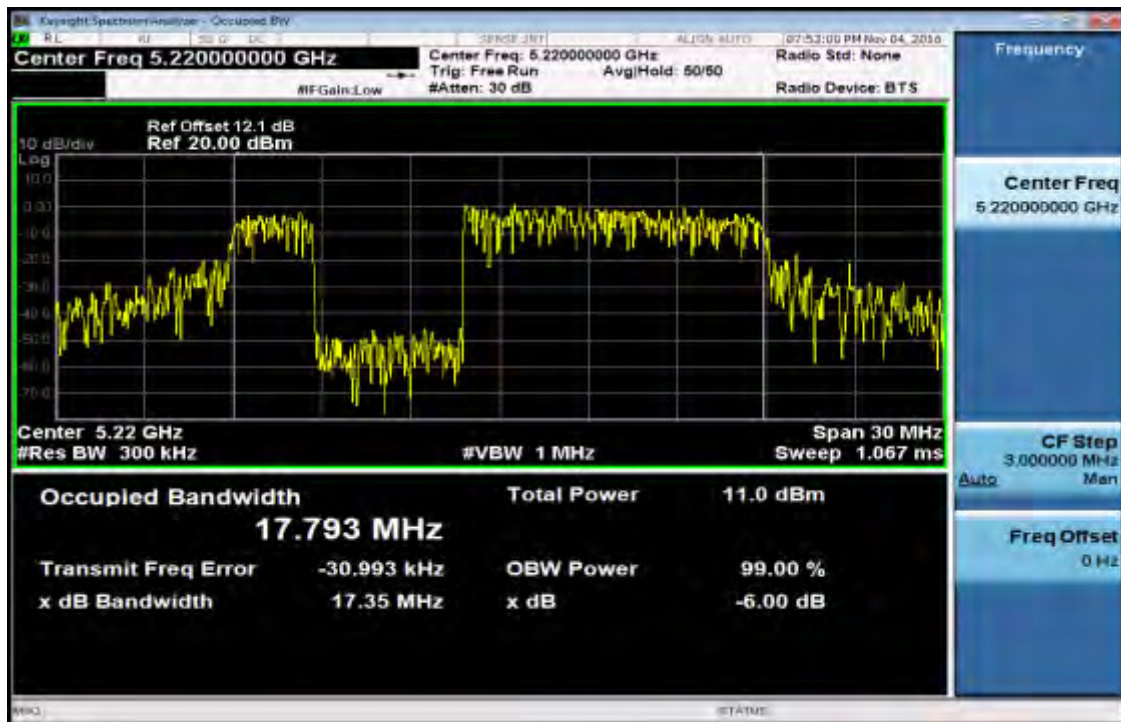
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802.11n HT20, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Low (5180 MHz)



99% Band Width Test Data CH-Mid (5220 MHz)



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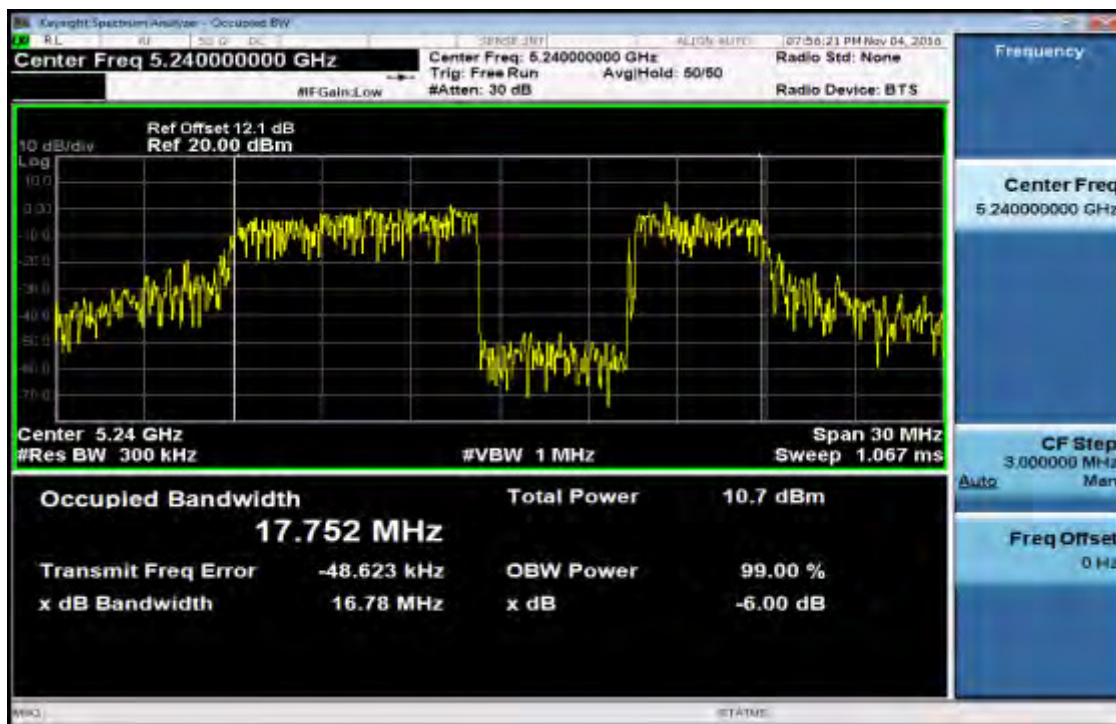
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99% Band Width Test Data CH-High (5240 MHz)



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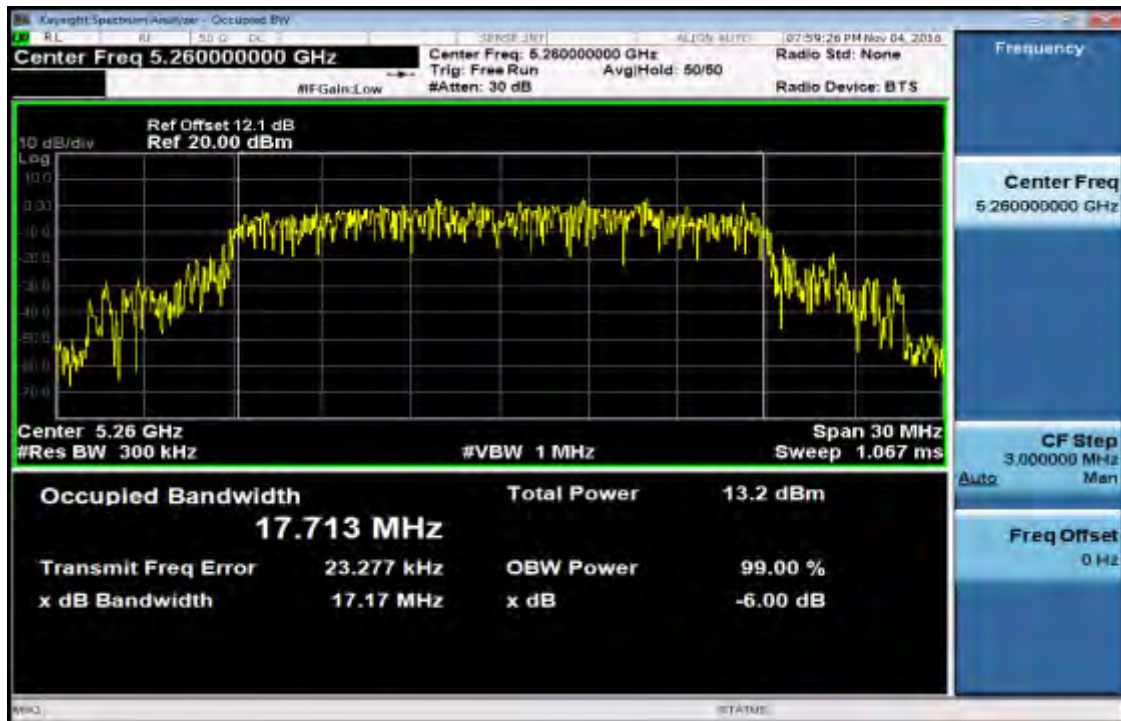
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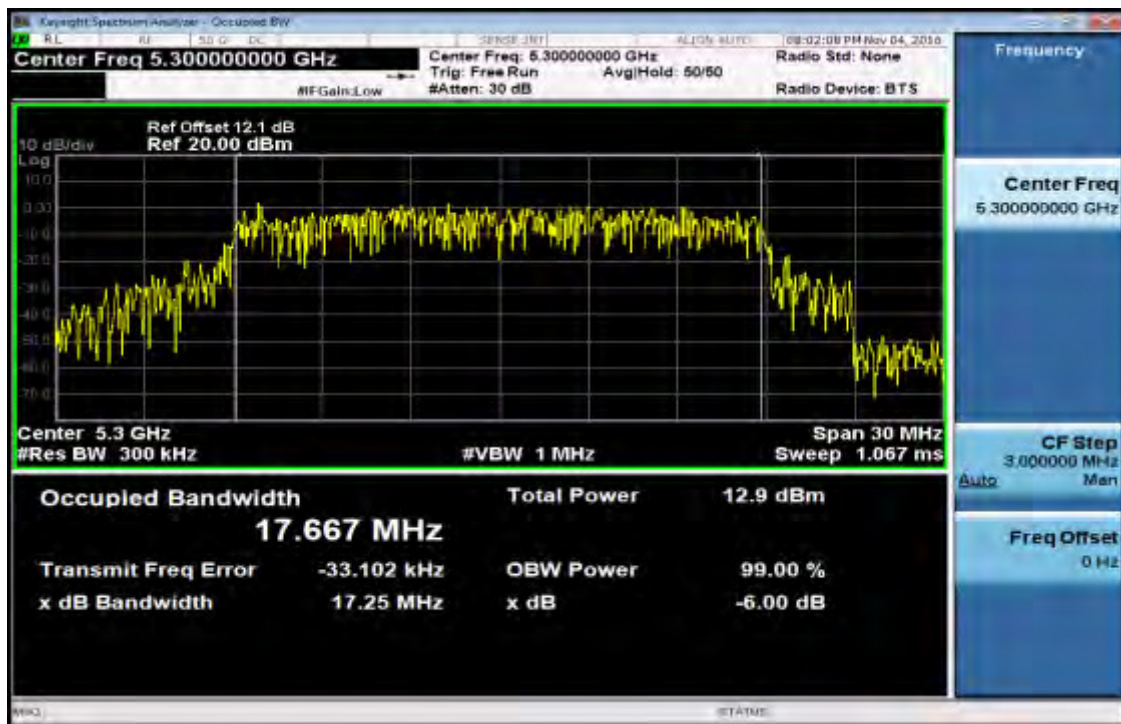
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802.11n HT20, 5250~5350 MHz (Aux) 99% Band Width Test Data CH-Low (5260 MHz)



99% Band Width Test Data CH-Mid (5300 MHz)



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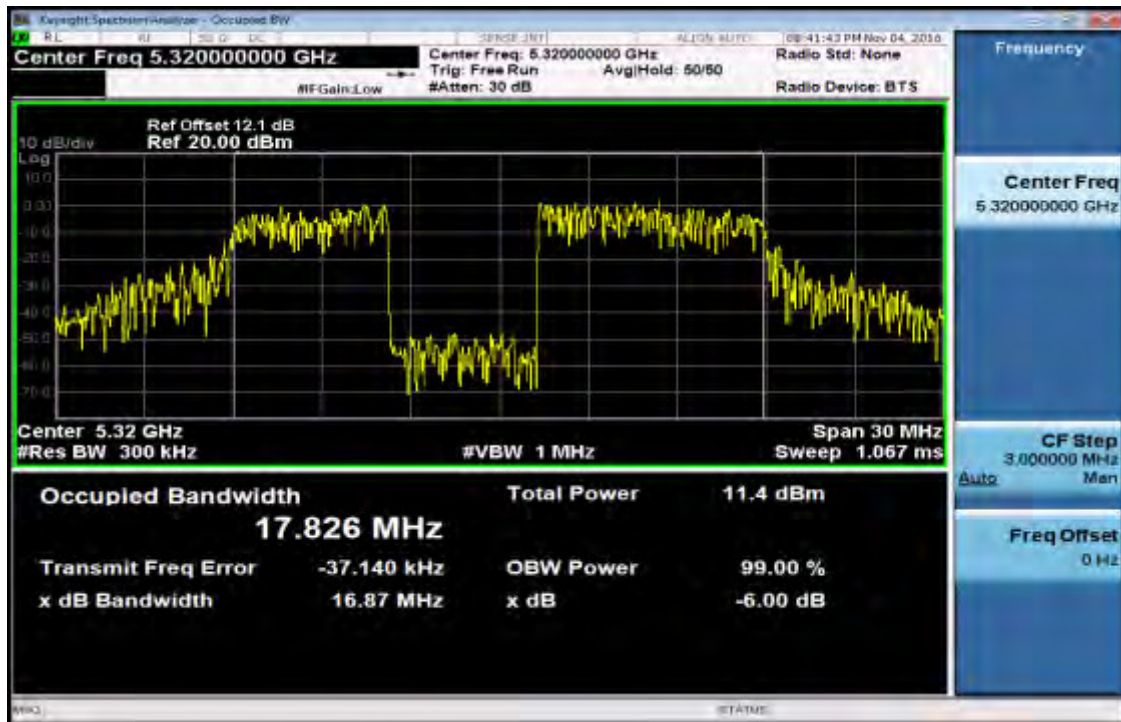
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99% Band Width Test Data CH-High (5320 MHz)



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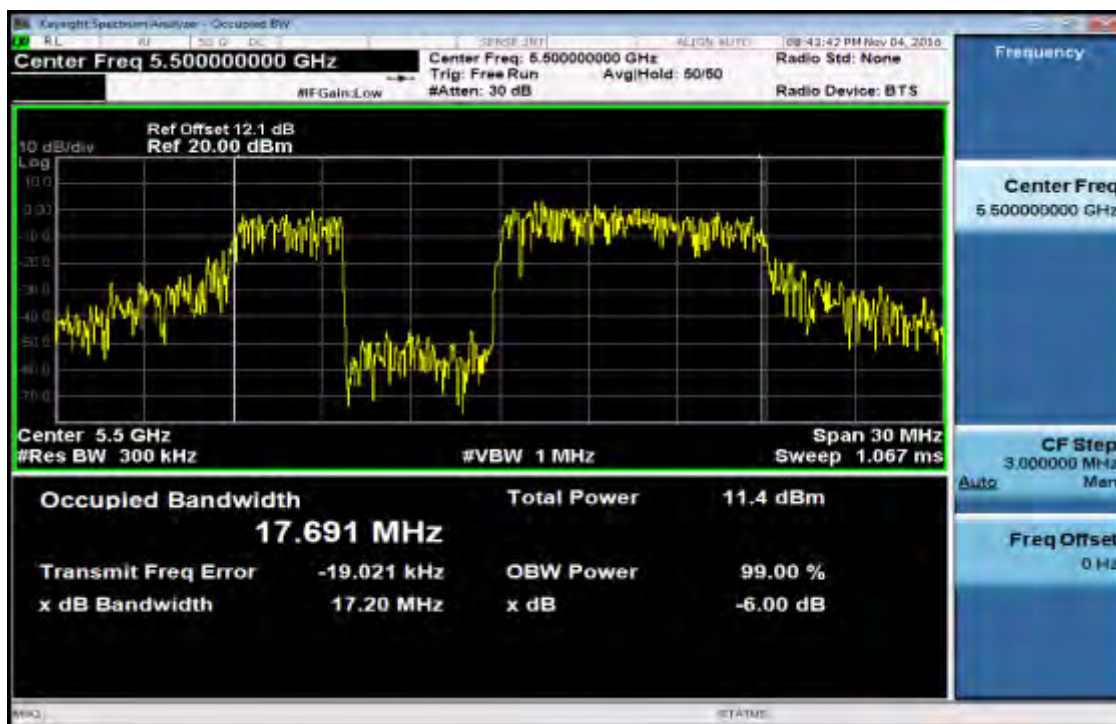
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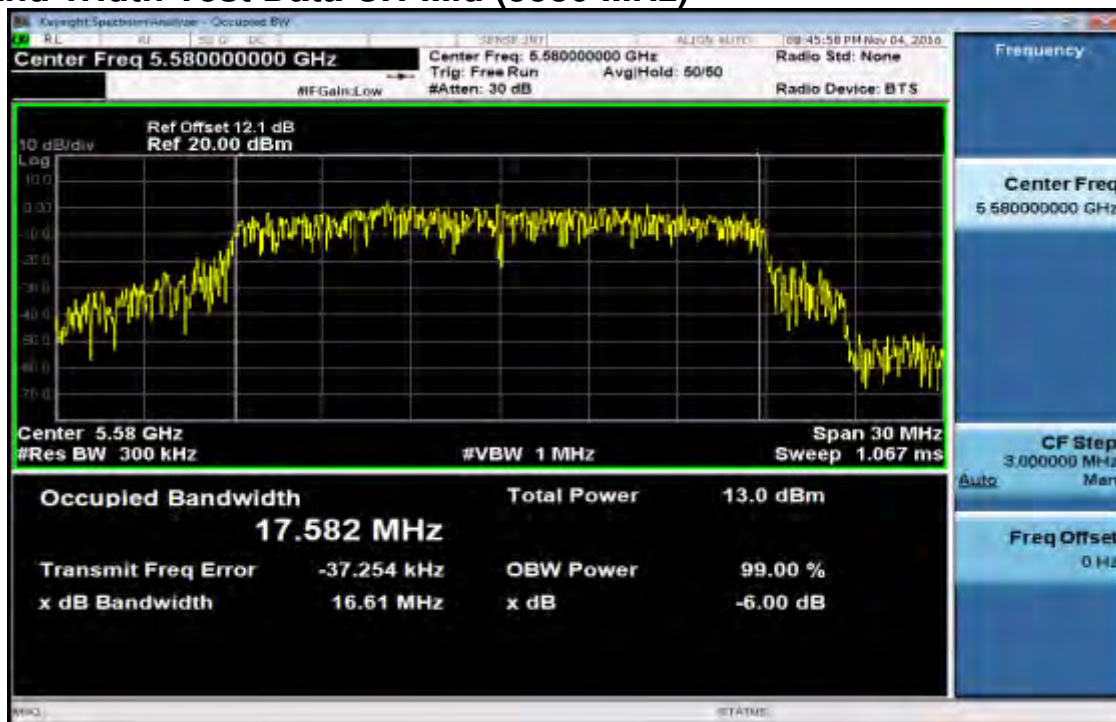
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802.11n HT20, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5500 MHz)



99% Band Width Test Data CH-Mid (5580 MHz)



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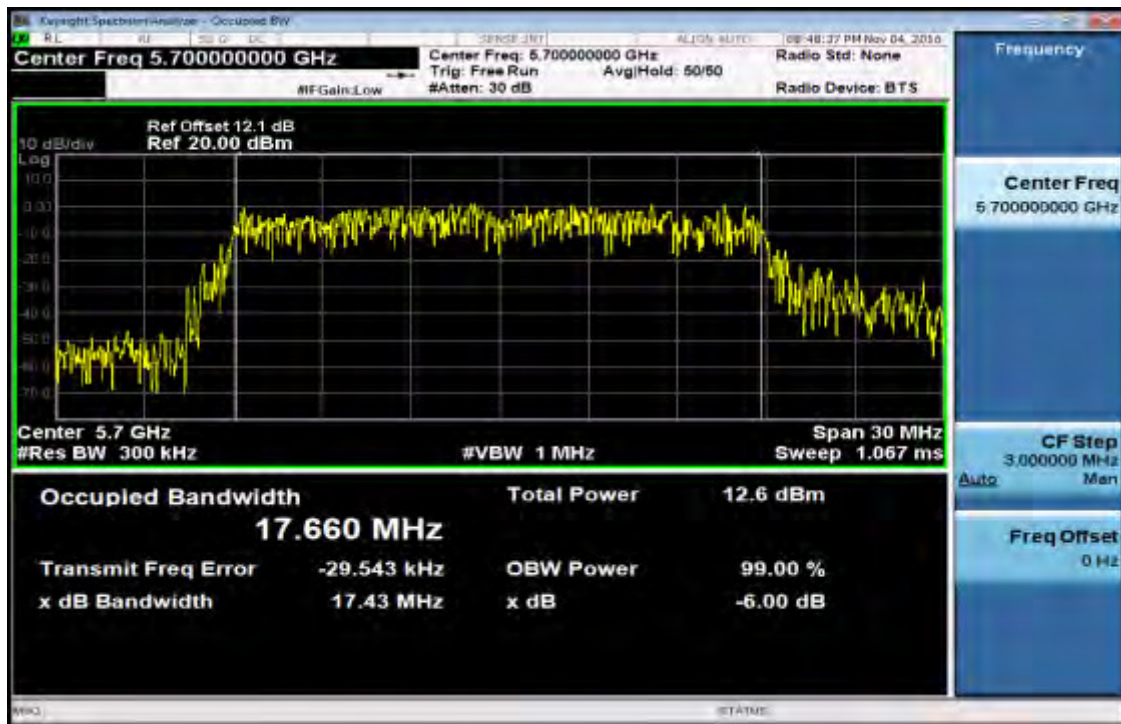
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99% Band Width Test Data CH-High (5700 MHz)



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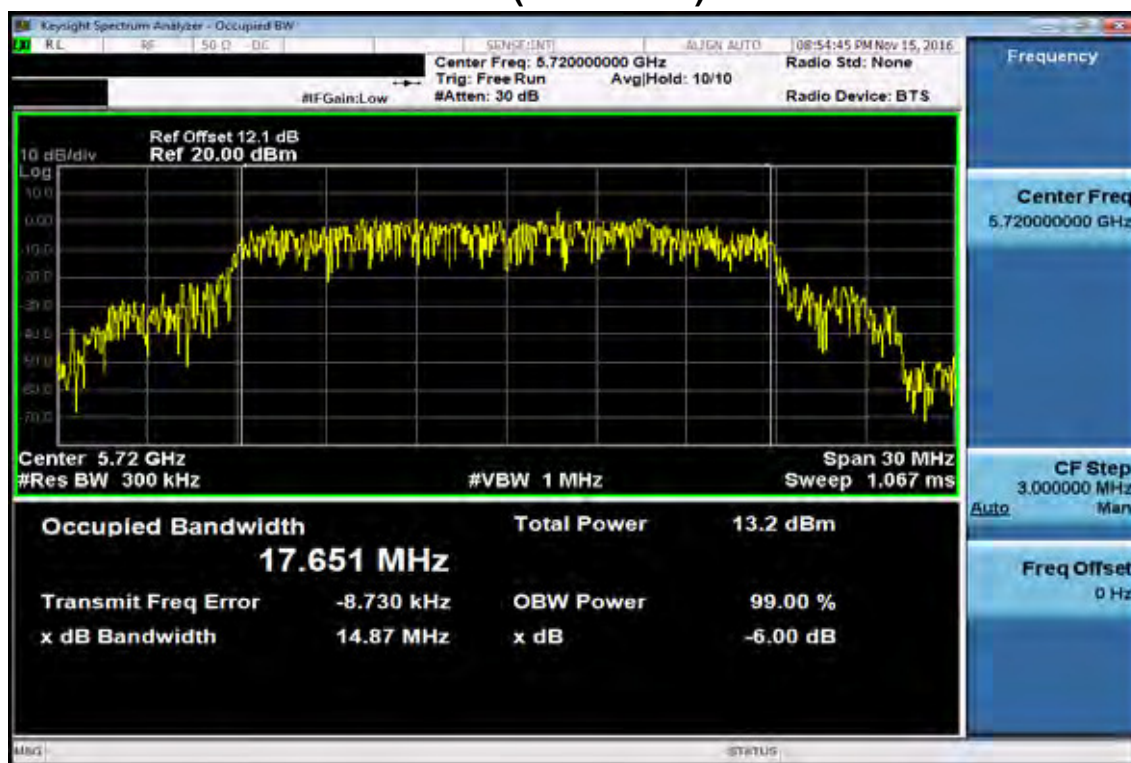
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802.11n HT20, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5720 MHz)



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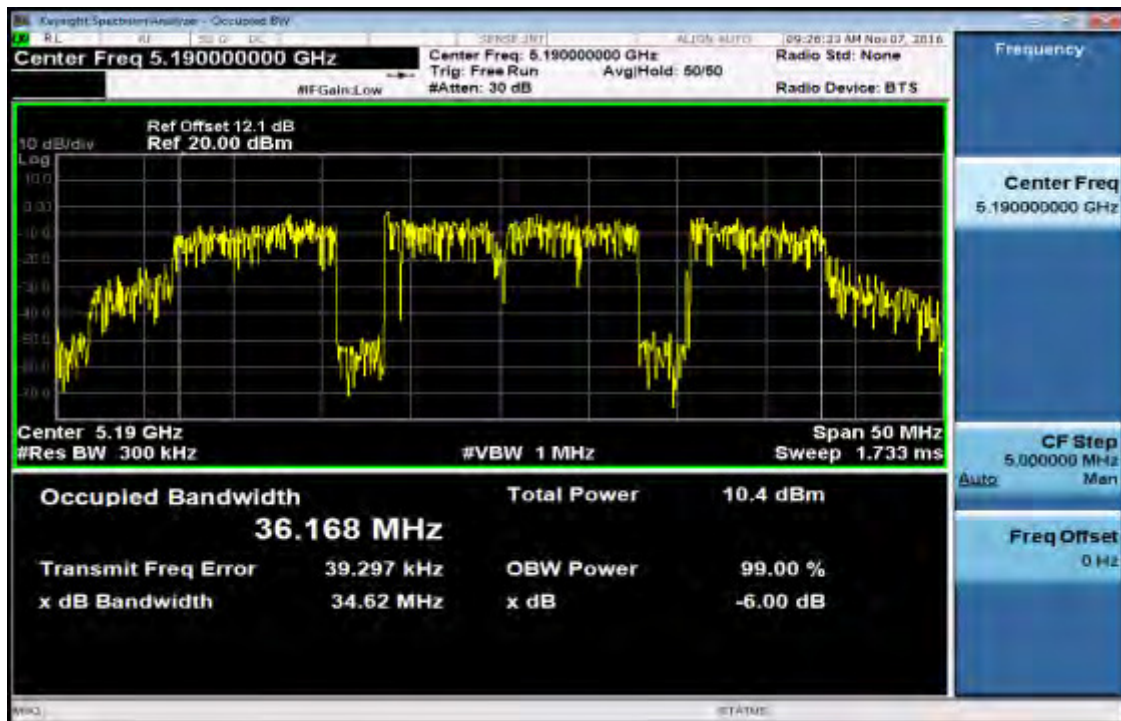
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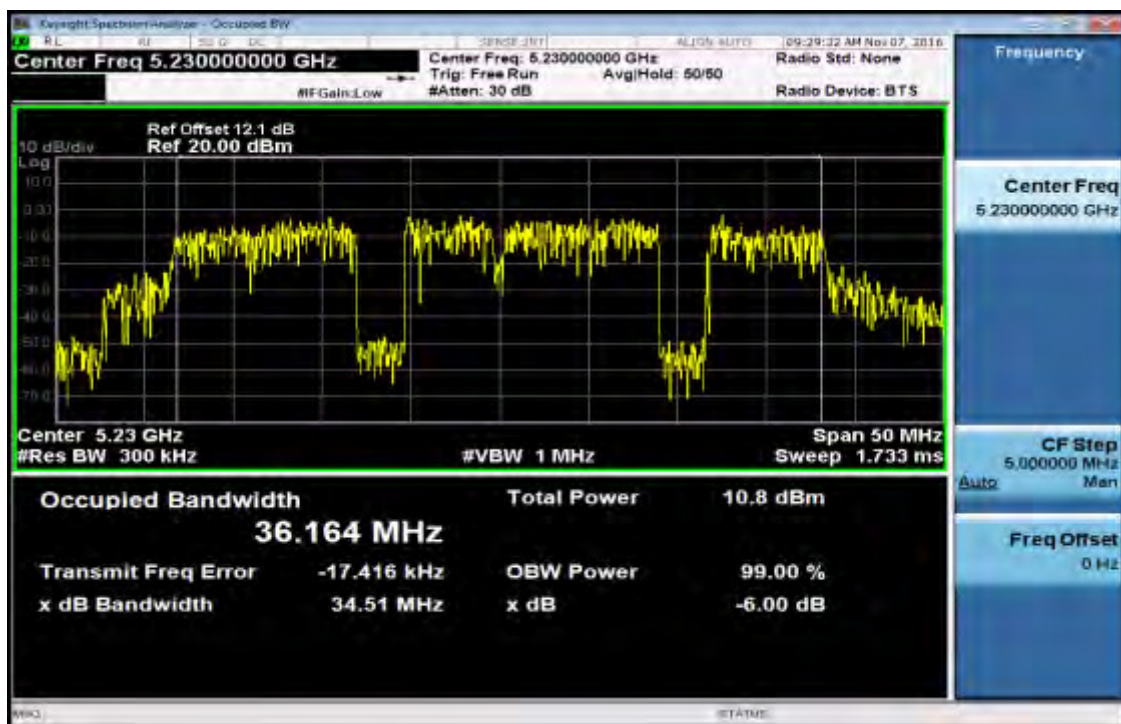
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802.11n HT40, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5190 MHz)



99% Band Width Test Data CH-High (5230 MHz)



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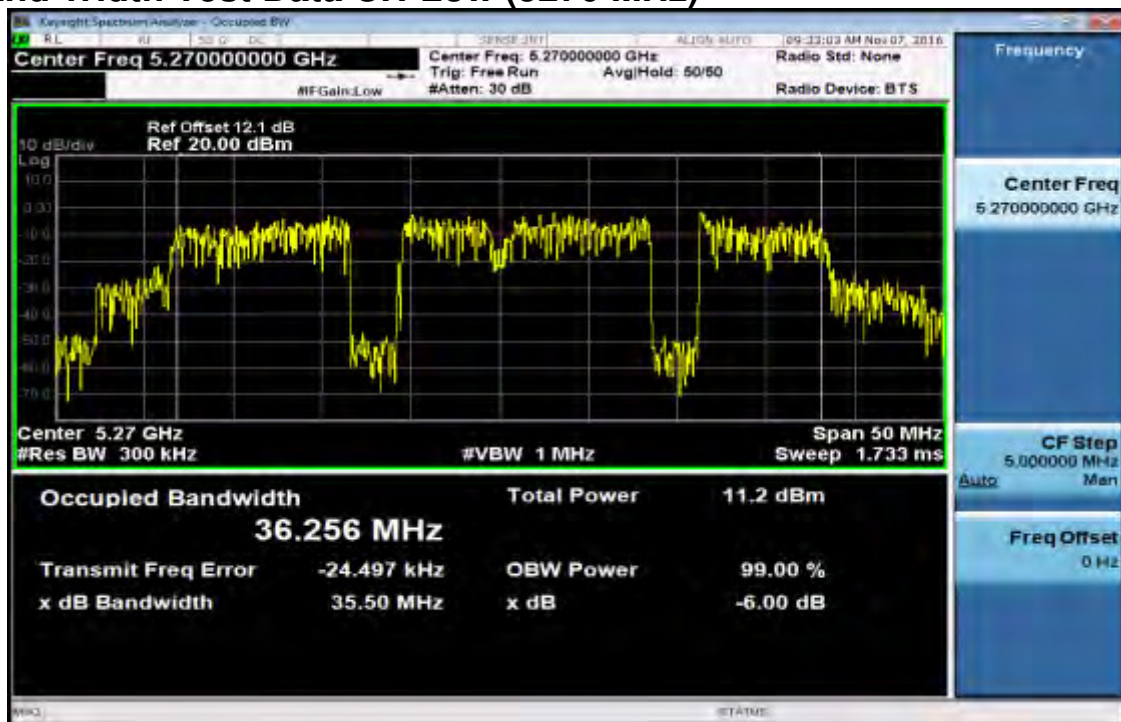
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f (886-2) 2298-0488

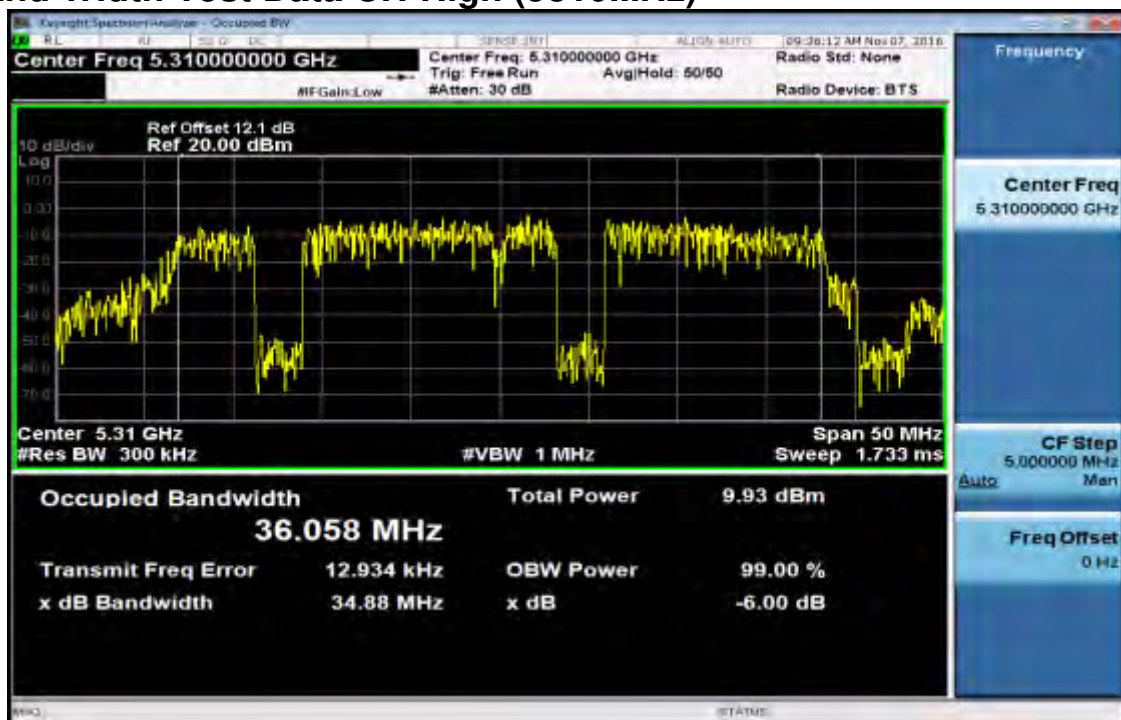
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802.11n HT40, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5270 MHz)



99% Band Width Test Data CH-High (5310MHz)



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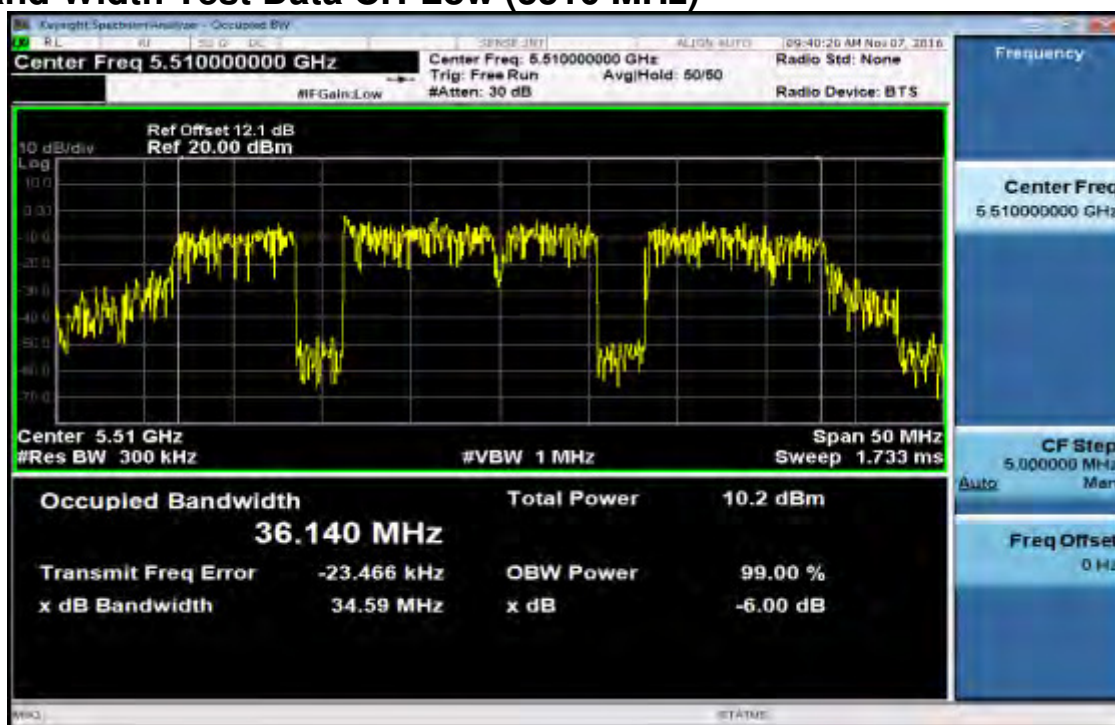
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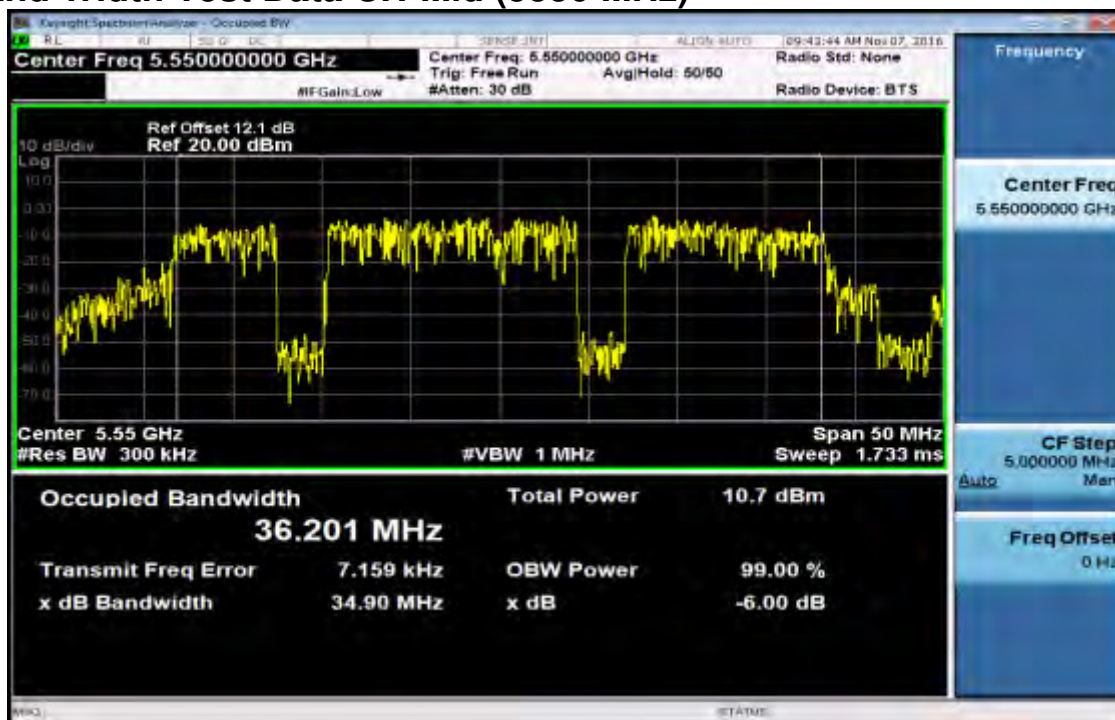
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802.11n HT40, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5510 MHz)



99% Band Width Test Data CH-Mid (5550 MHz)



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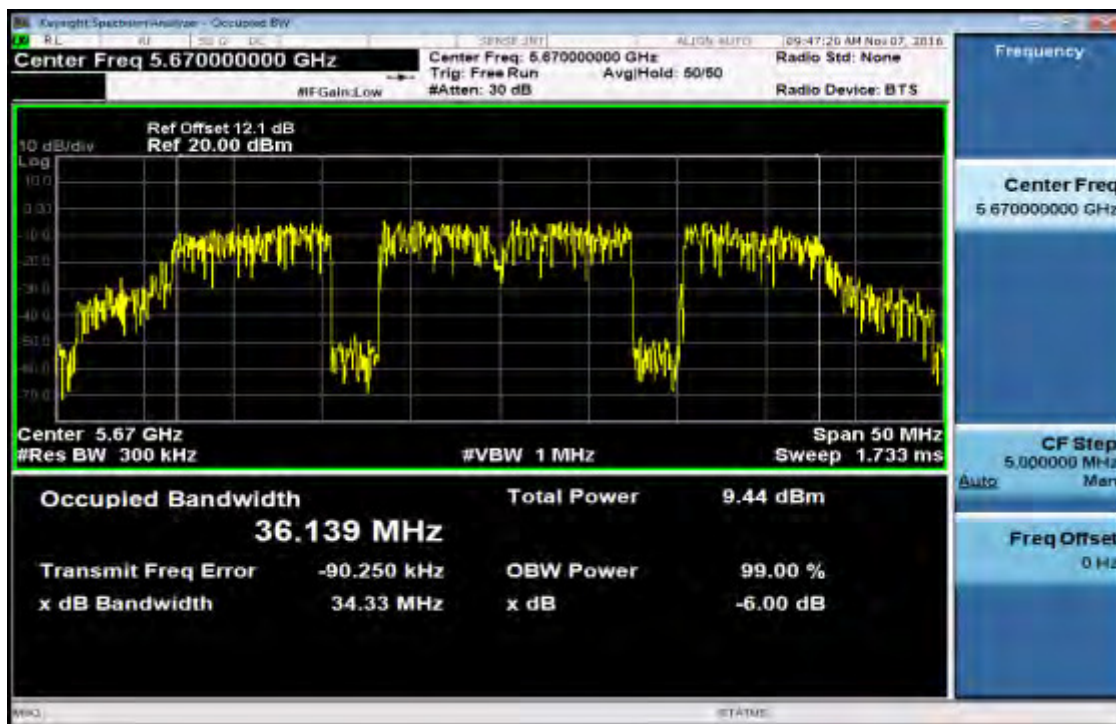
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99% Band Width Test Data CH-High (5670 MHz)



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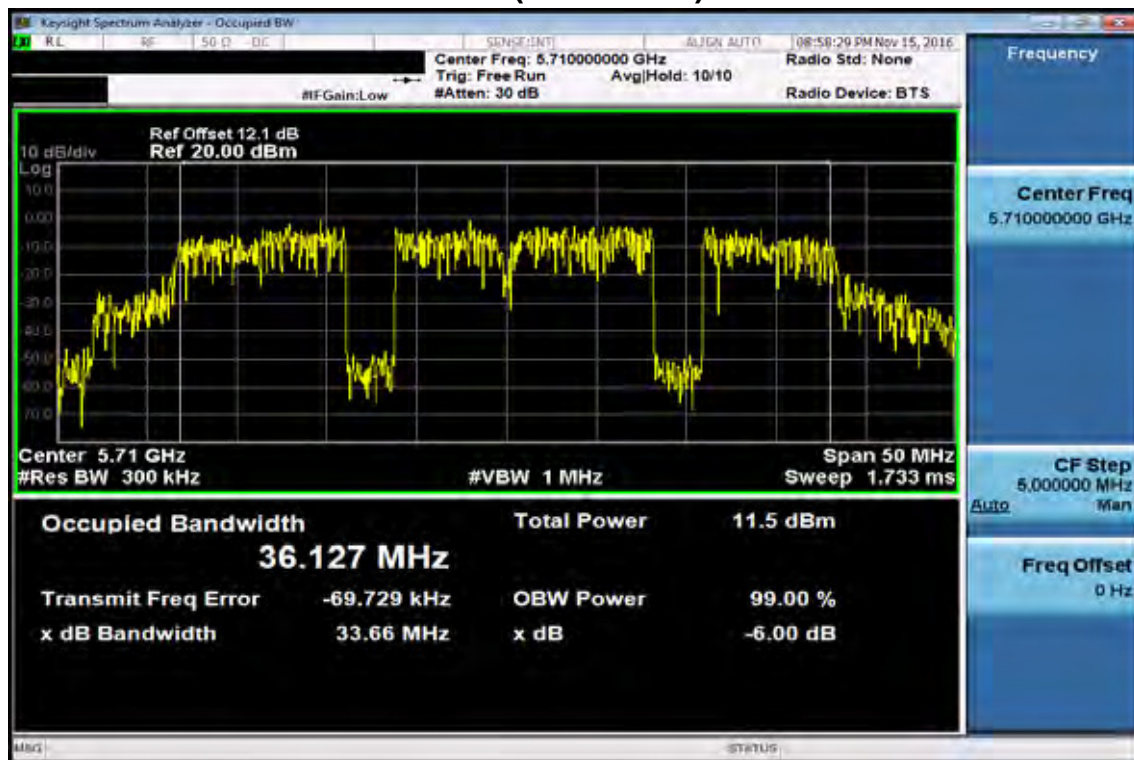
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802.11n HT40, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5710 MHz)



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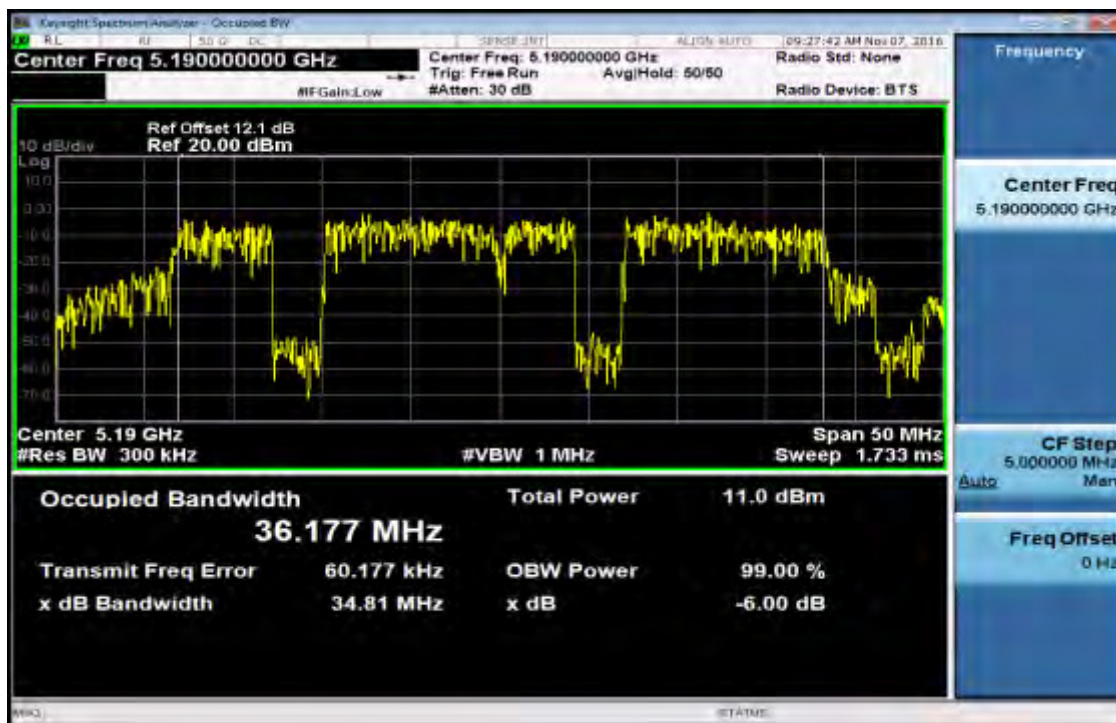
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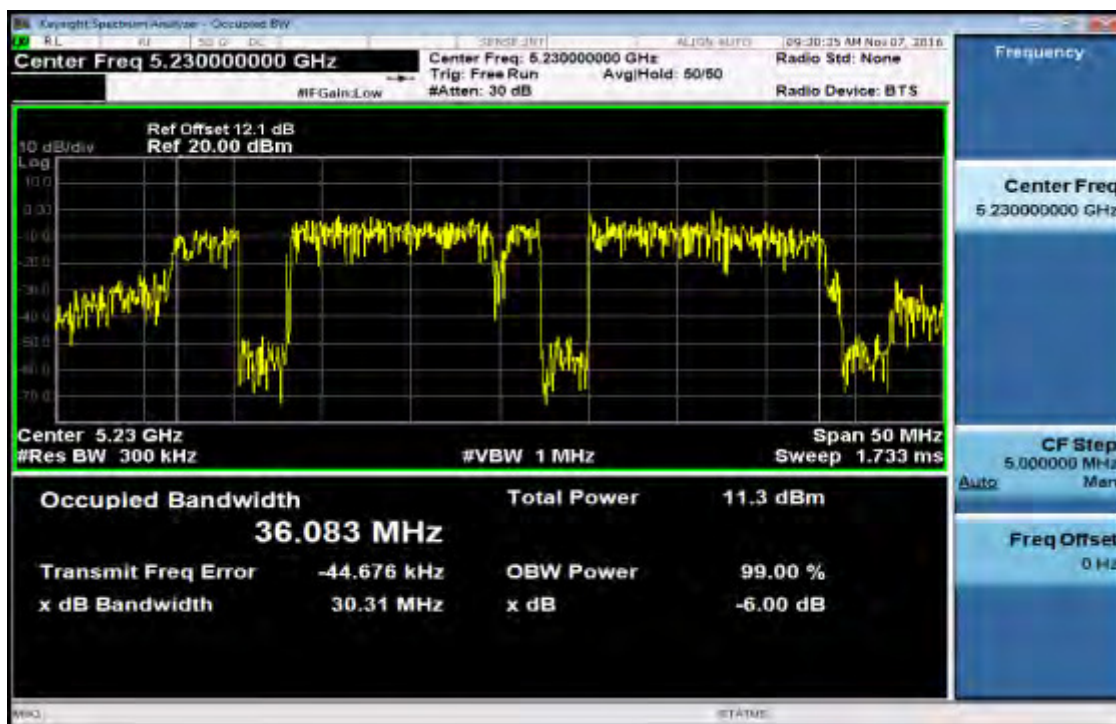
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802.11n HT40, 5150~5250 MHz (Aux)

99% Band Width Test Data CH-Low (5190 MHz)



99% Band Width Test Data CH-High (5230 MHz)



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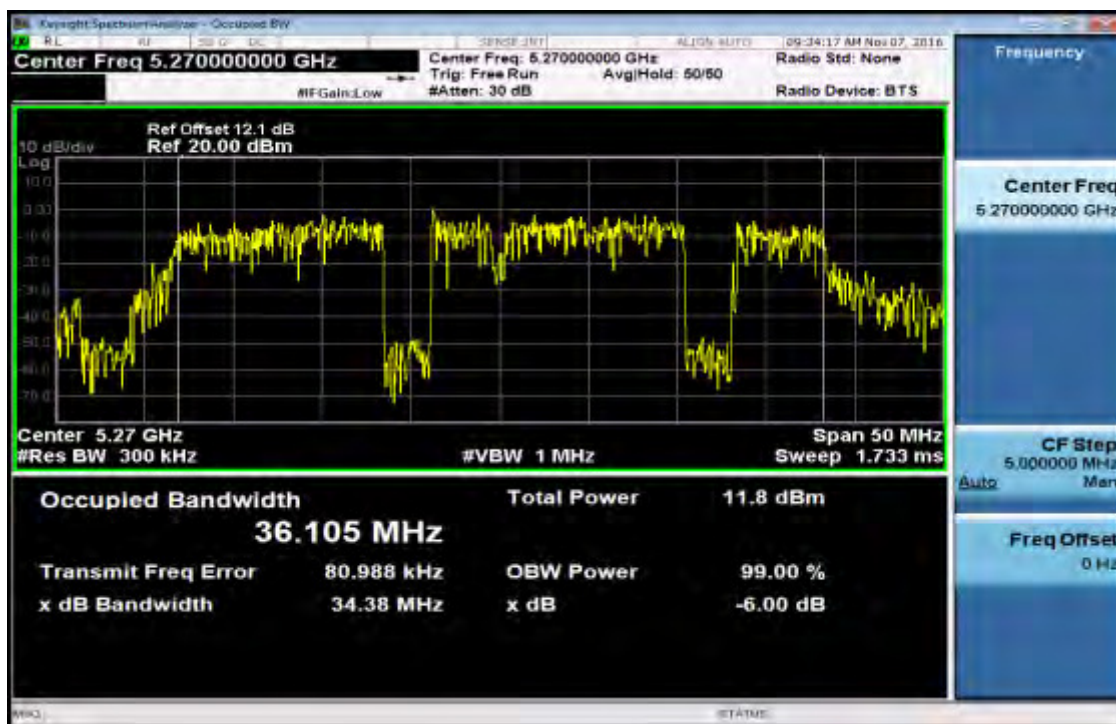
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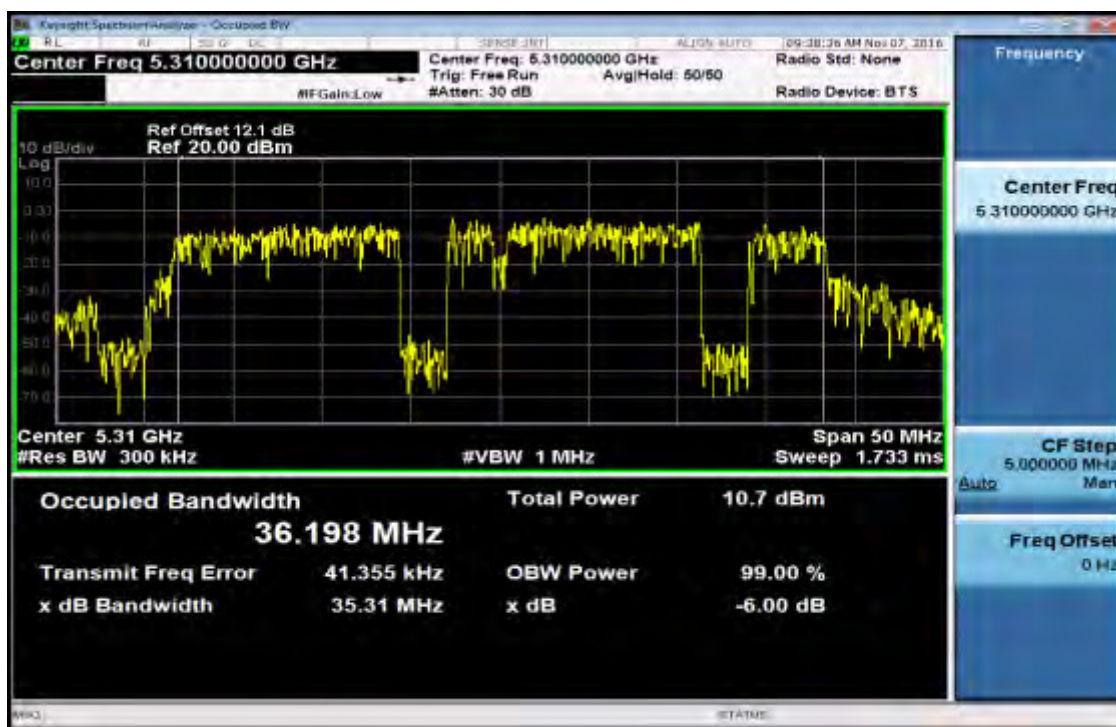
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802.11n HT40, 5250~5350 MHz (Aux) 99% Band Width Test Data CH-Low (5270 MHz)



99% Band Width Test Data CH-High (5310MHz)



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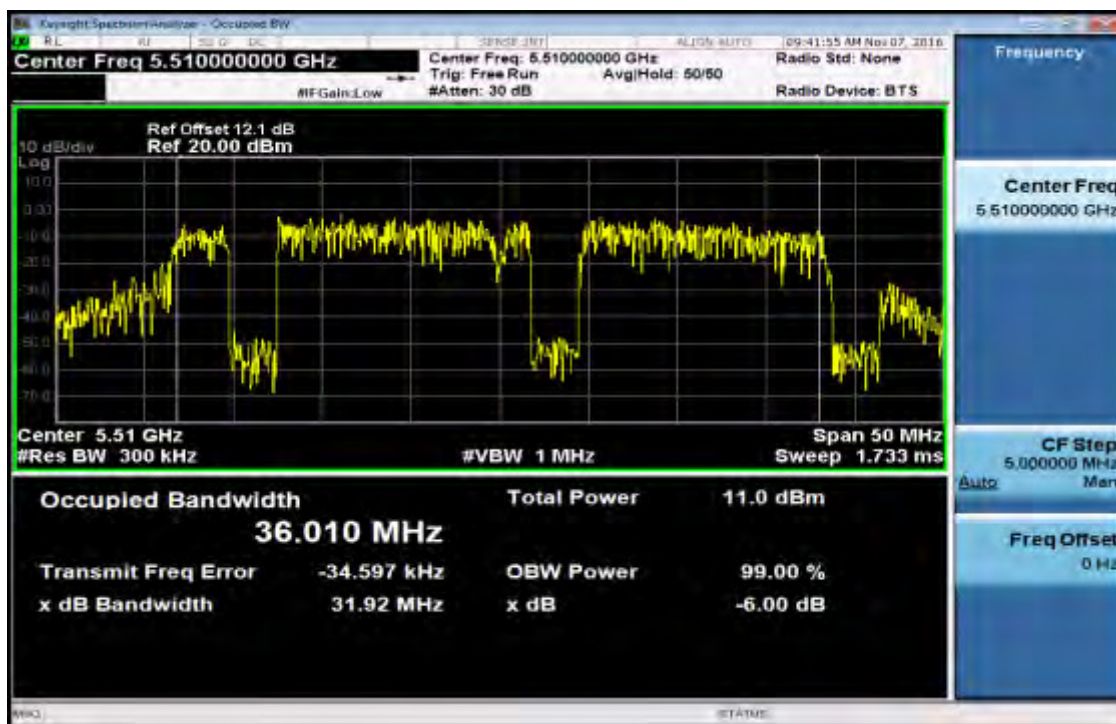
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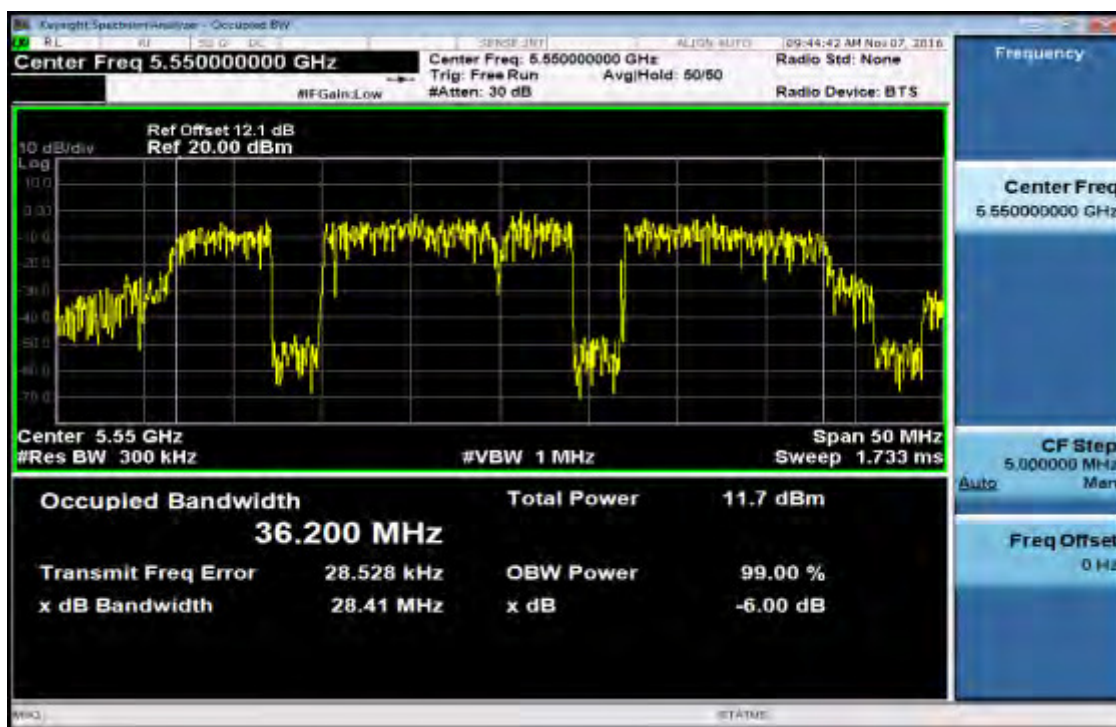
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802.11n HT40, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5510 MHz)



99% Band Width Test Data CH-Mid (5550 MHz)



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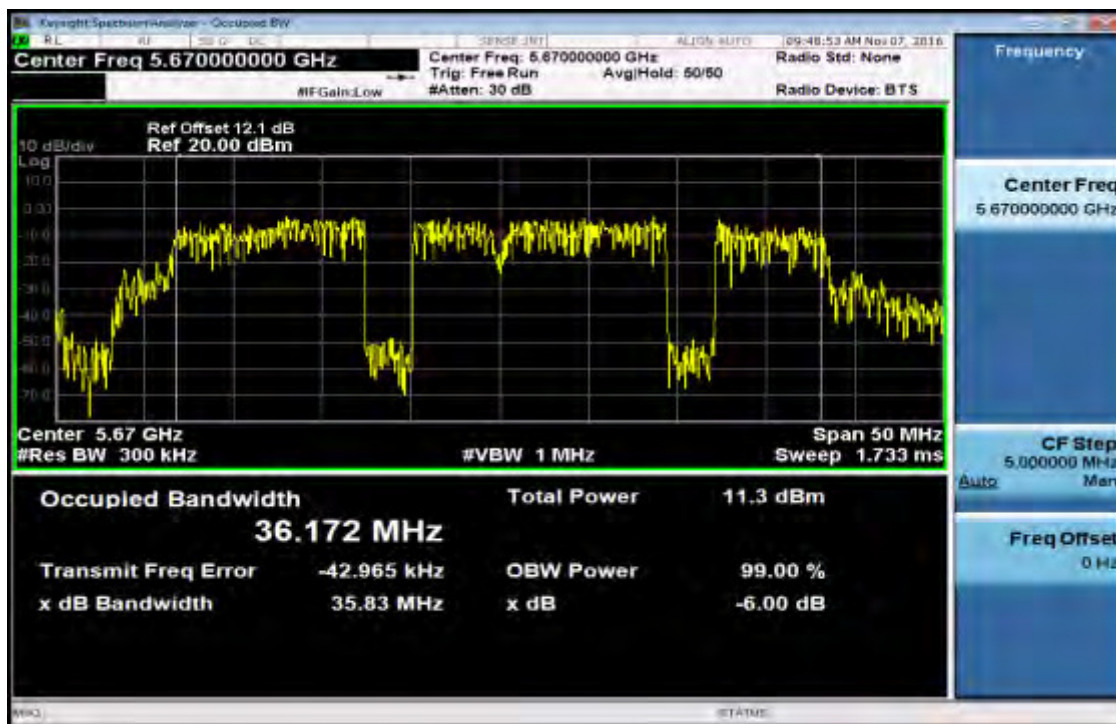
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99% Band Width Test Data CH-High (5670 MHz)



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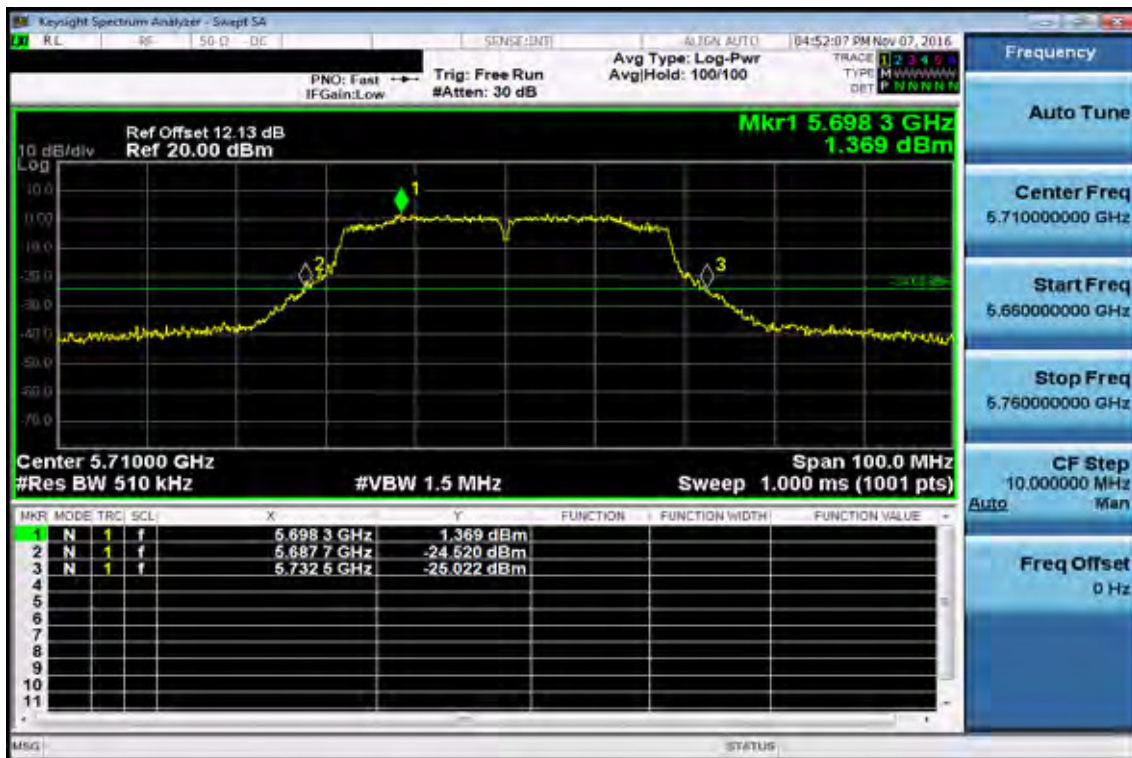
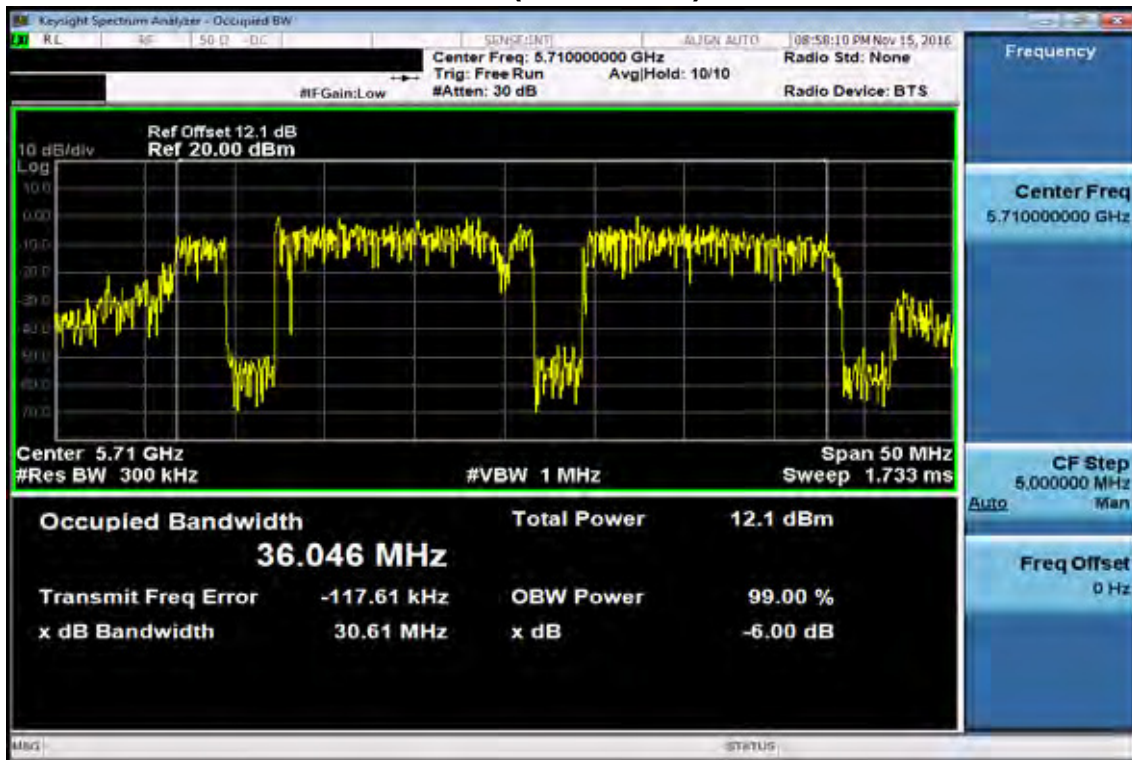
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802.11n HT40, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5710 MHz)



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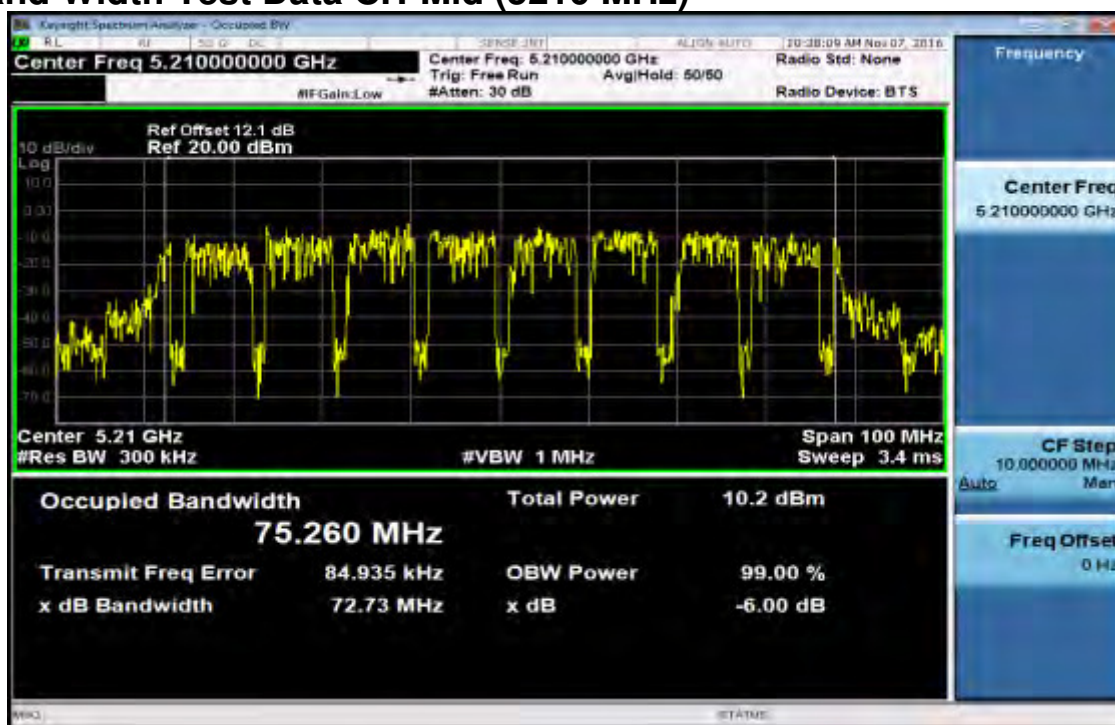
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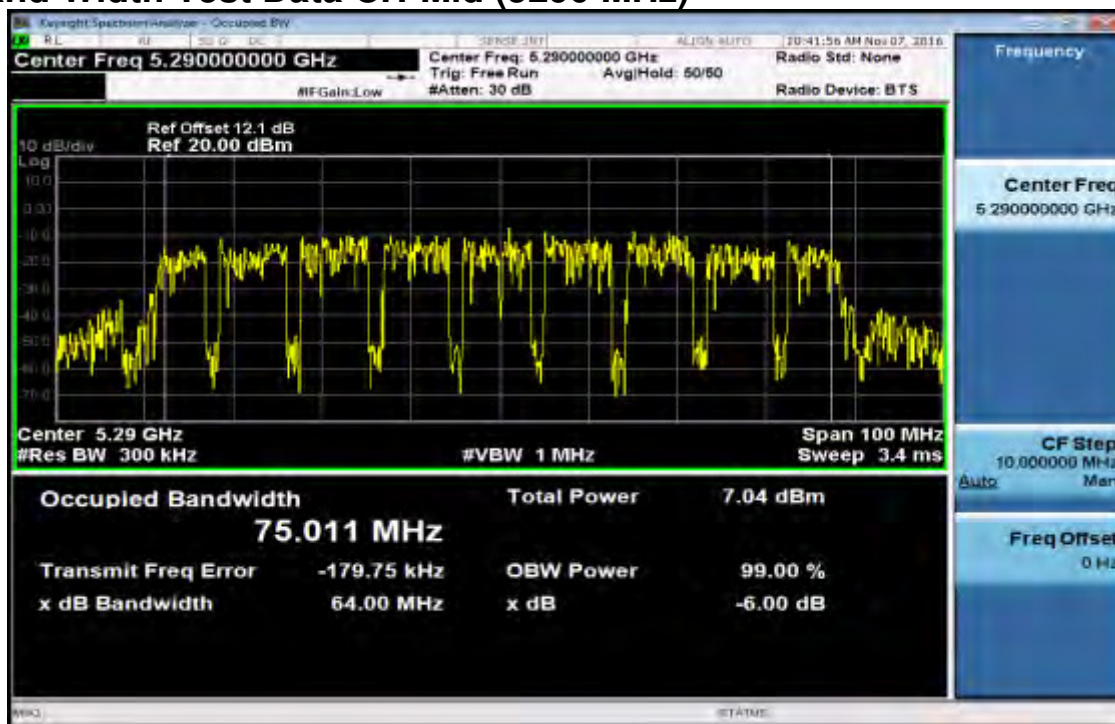
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802.11ac VHT80, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz 99% Band Width Test Data CH-Mid (5290 MHz)



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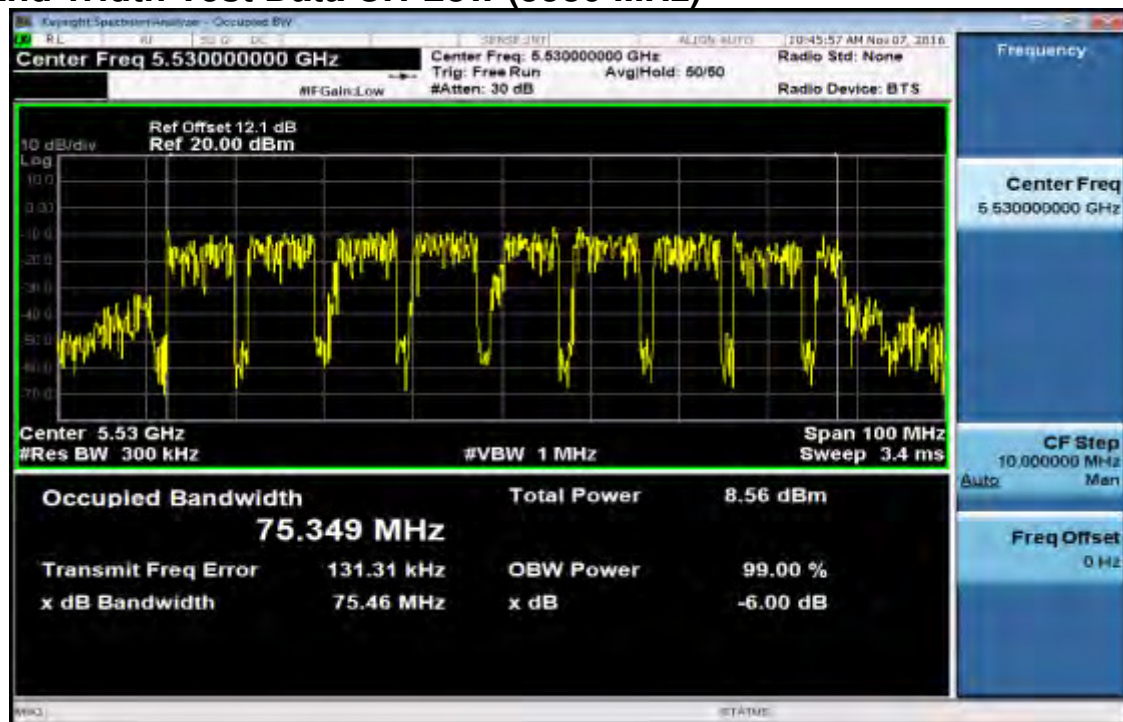
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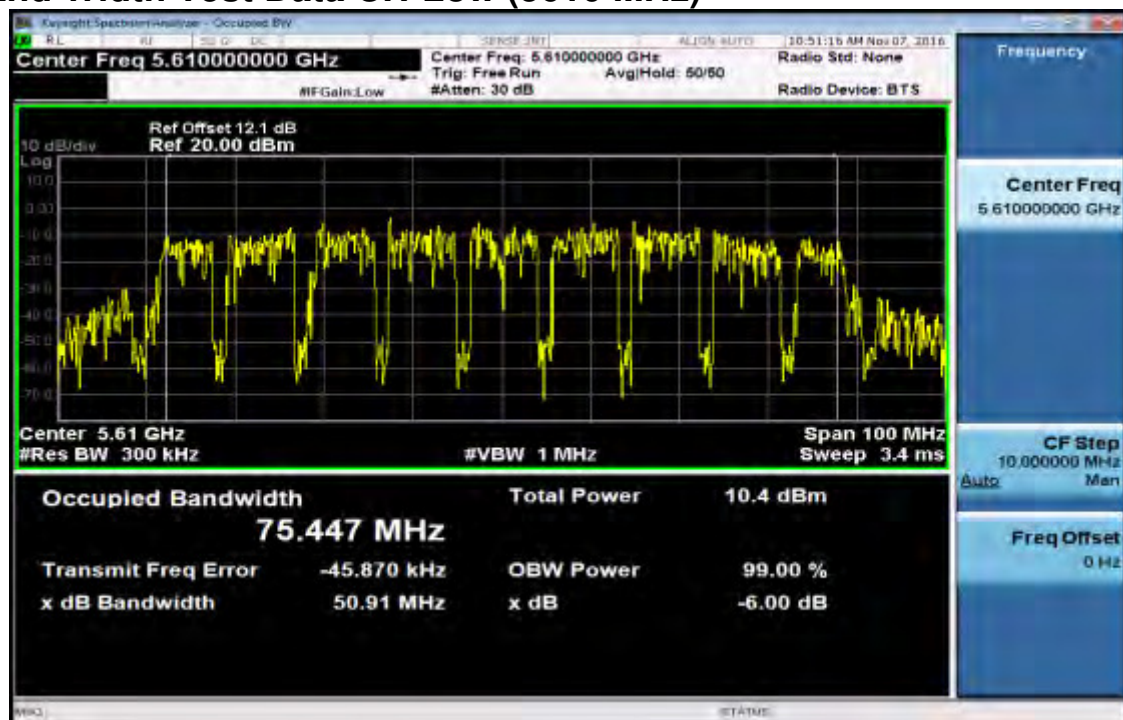
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802.11ac VHT80, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5530 MHz)



99% Band Width Test Data CH-Low (5610 MHz)



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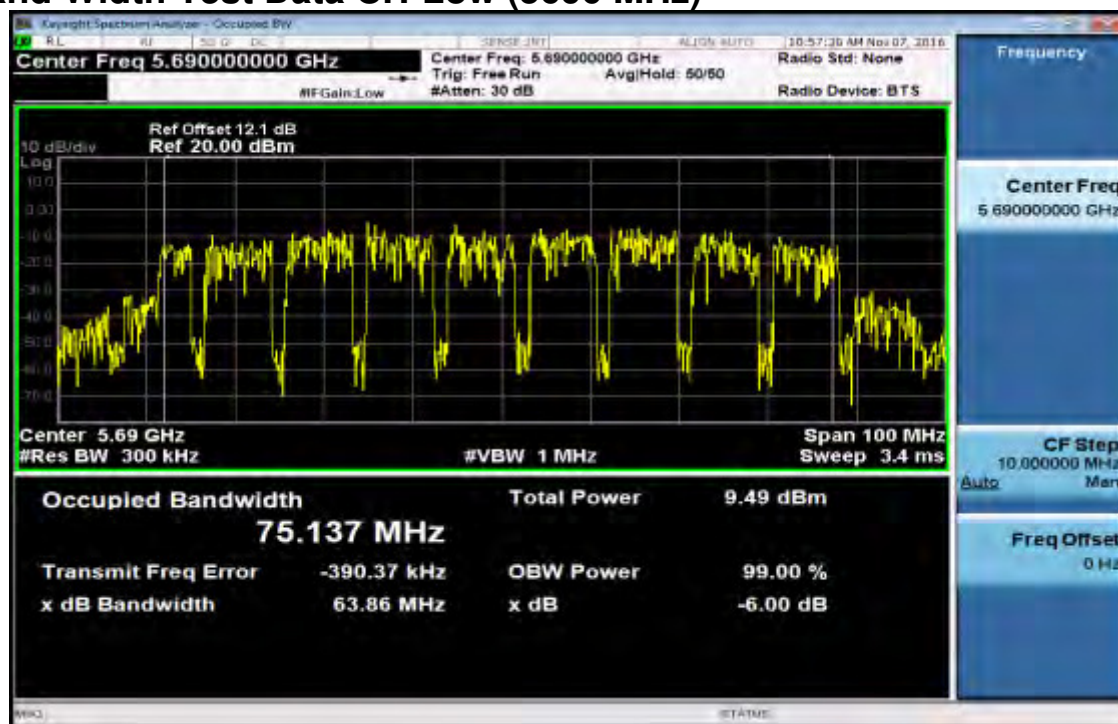
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802.11ac VHT80, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5690 MHz)



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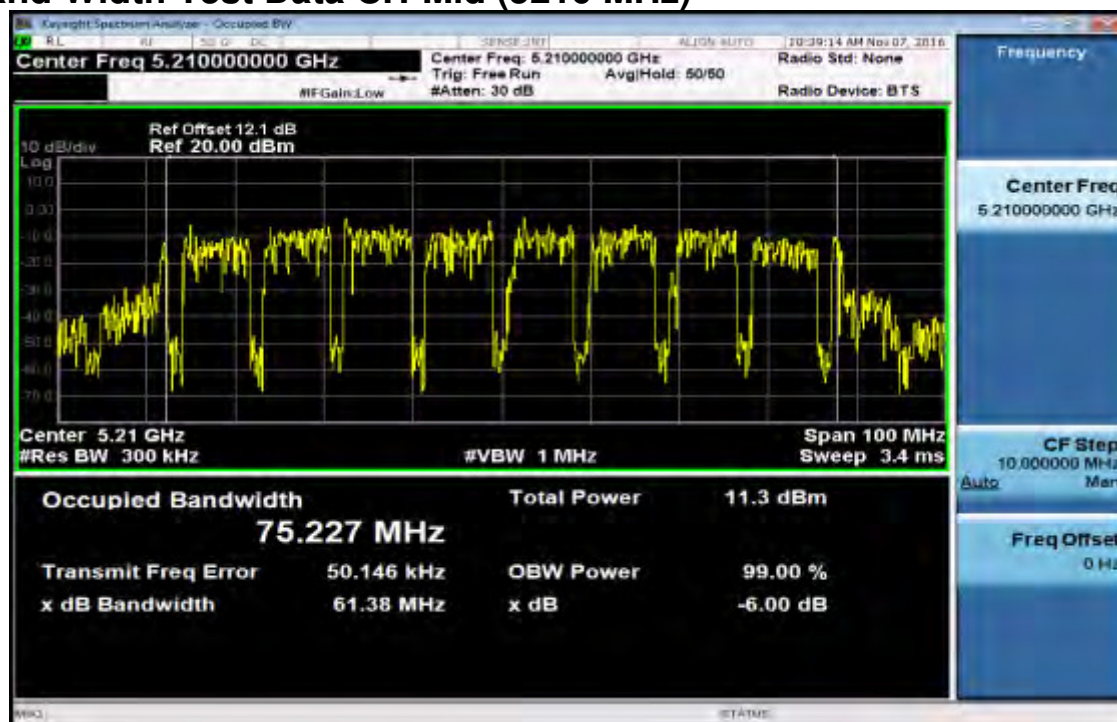
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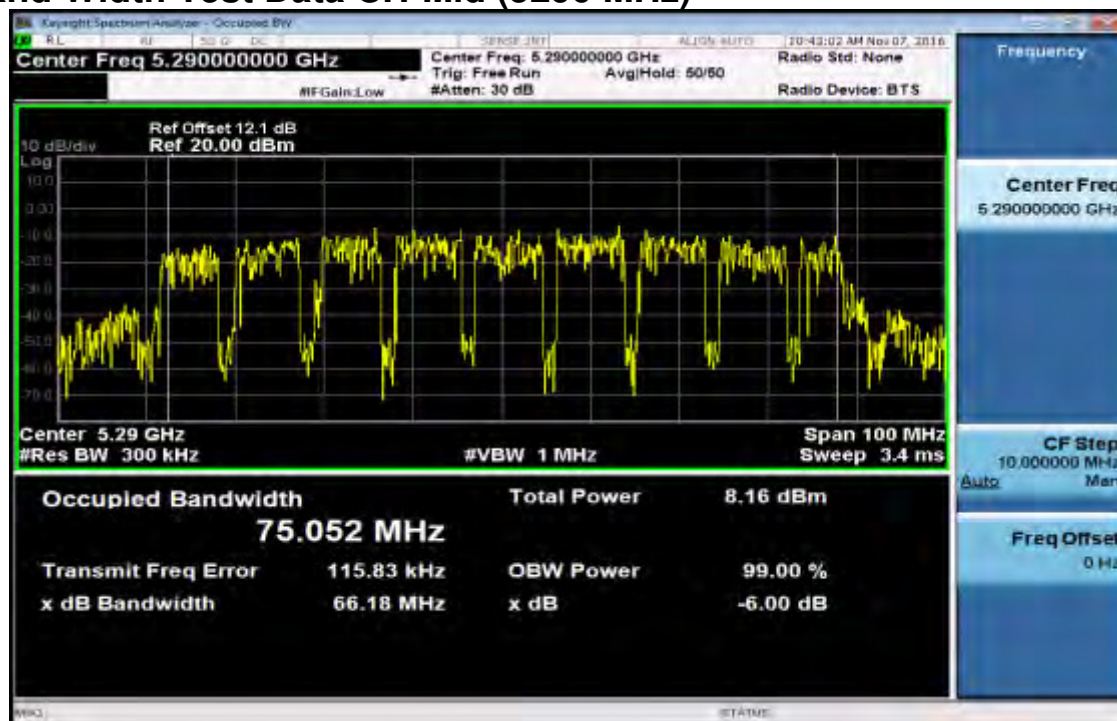
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802.11ac VHT80, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz 99% Band Width Test Data CH-Mid (5290 MHz)



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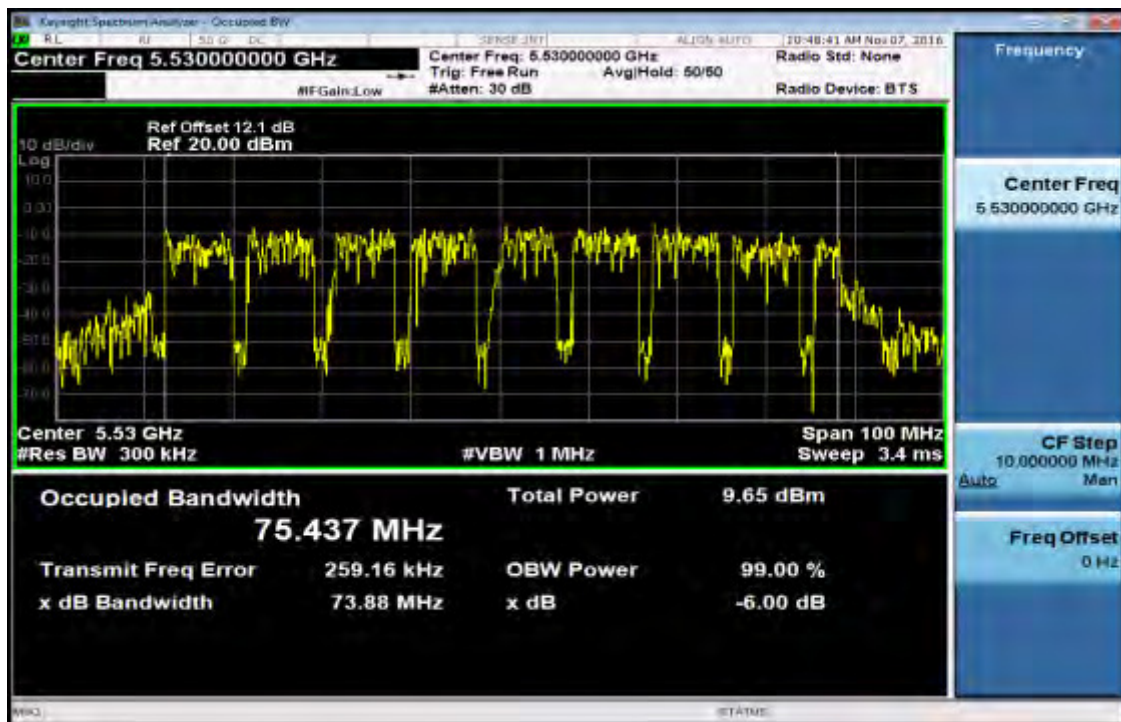
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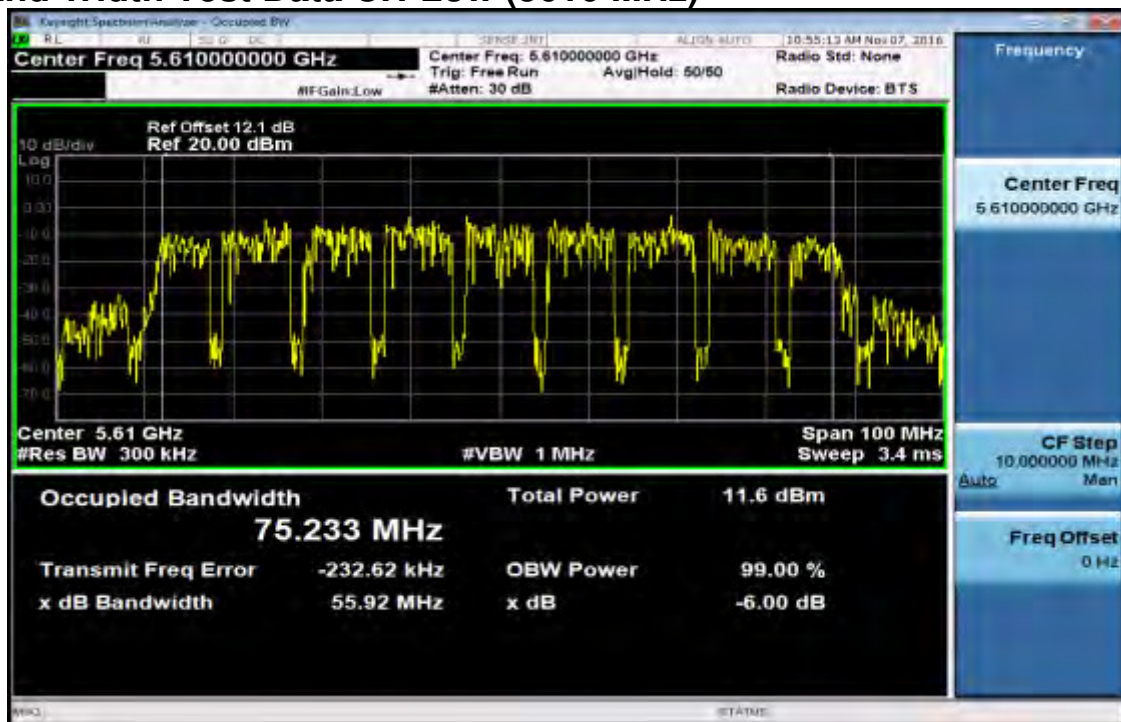
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802.11ac VHT80, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5530 MHz)



99% Band Width Test Data CH-Low (5610 MHz)



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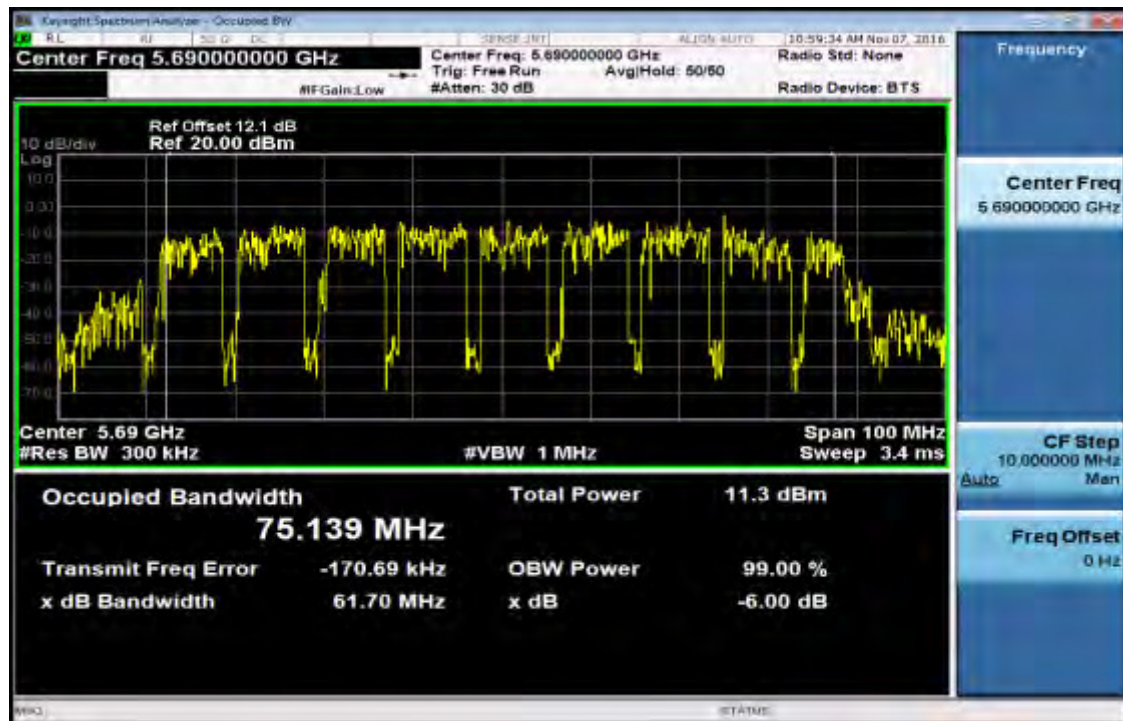
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802.11ac VHT80, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5690 MHz)



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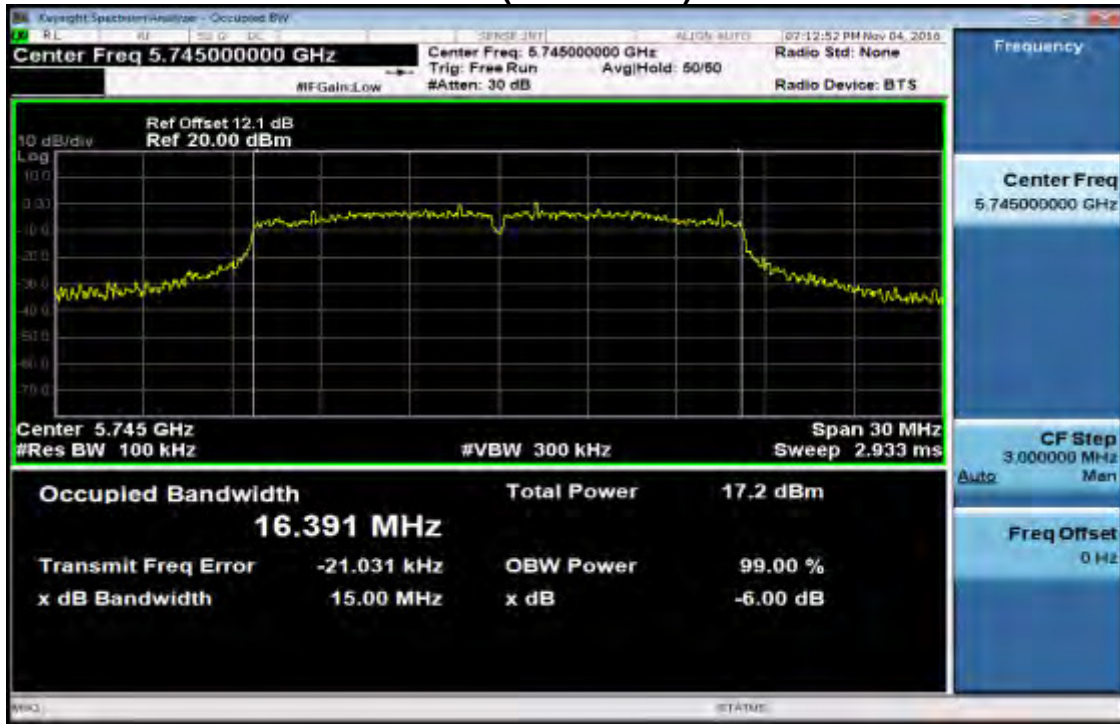
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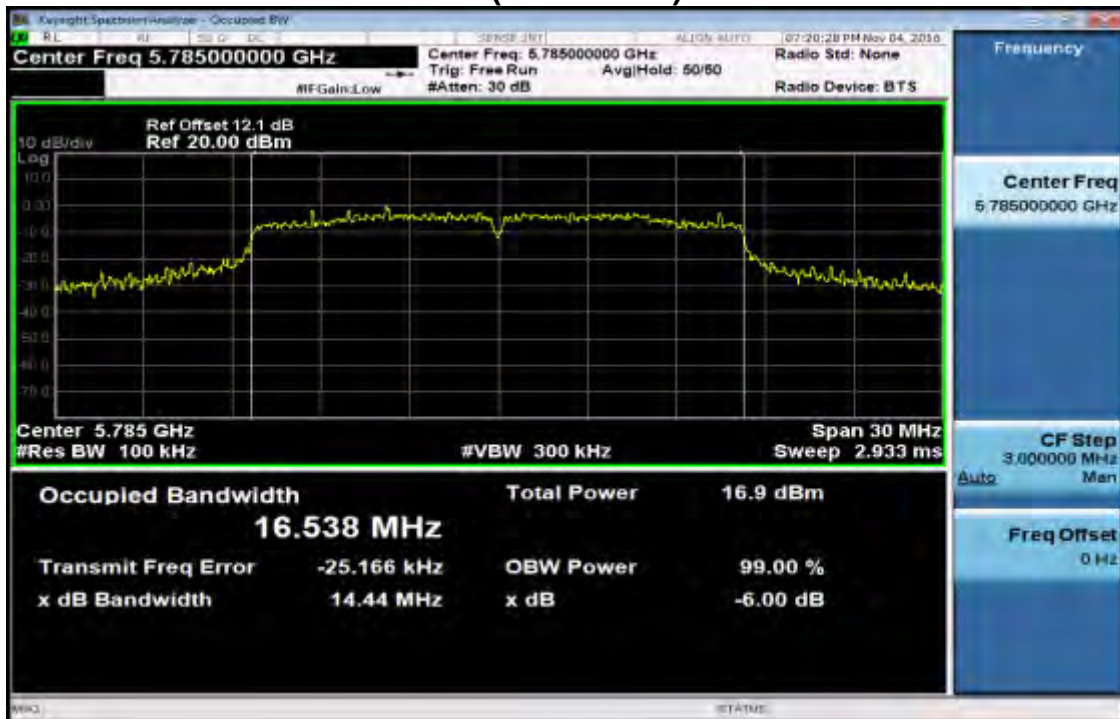
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6dB Band Width measure with Peak detector for FCC 802.11a, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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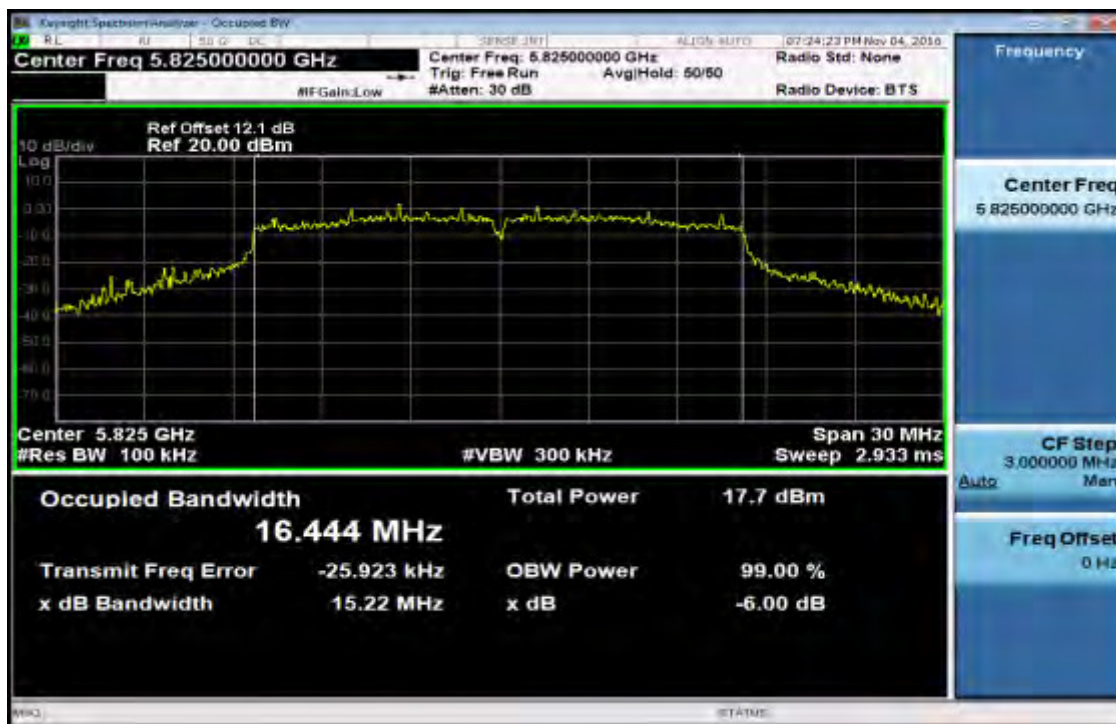
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6dB Band Width Test Data CH-High (5825 MHz)



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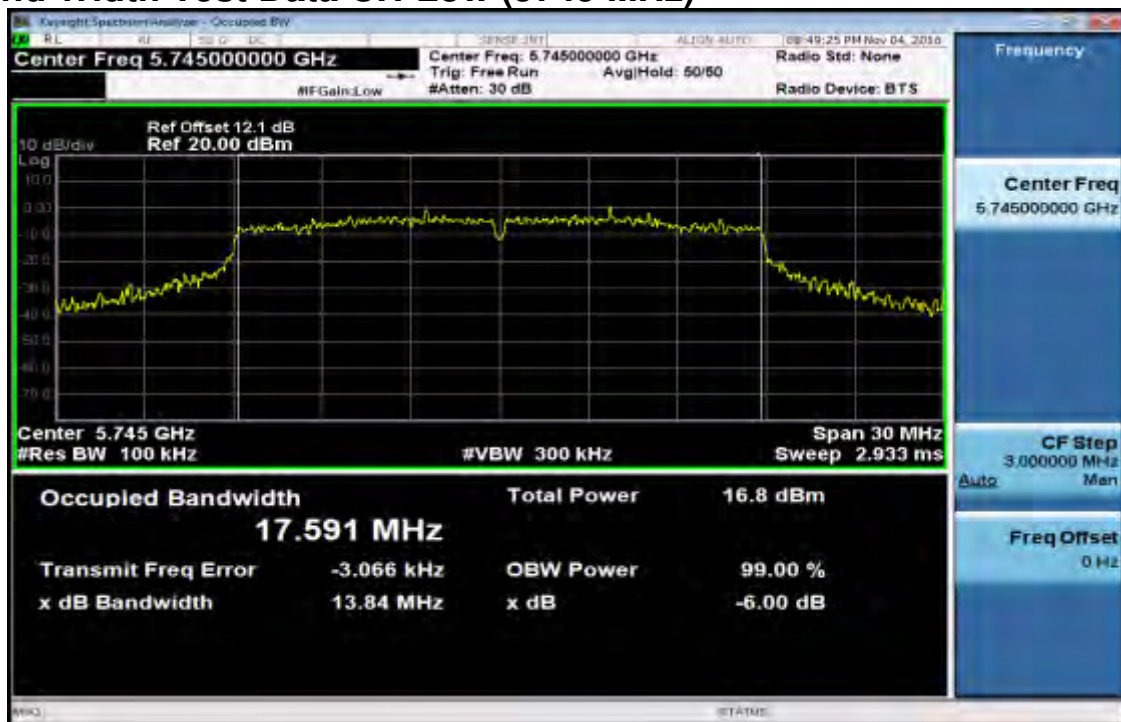
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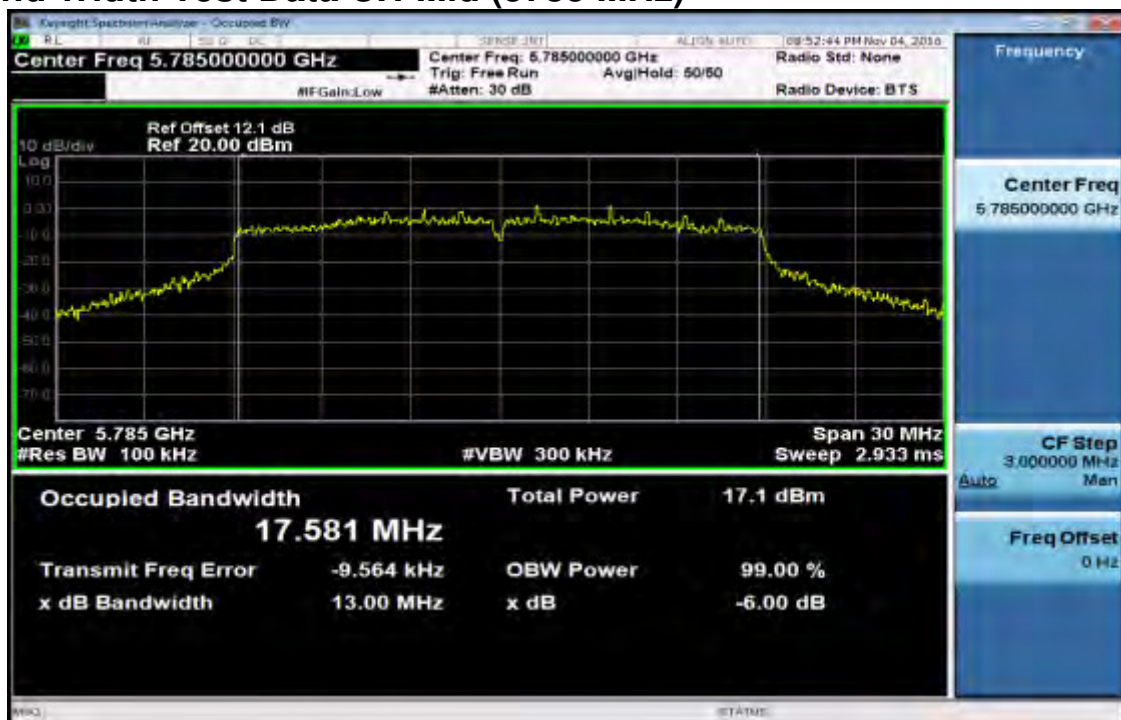
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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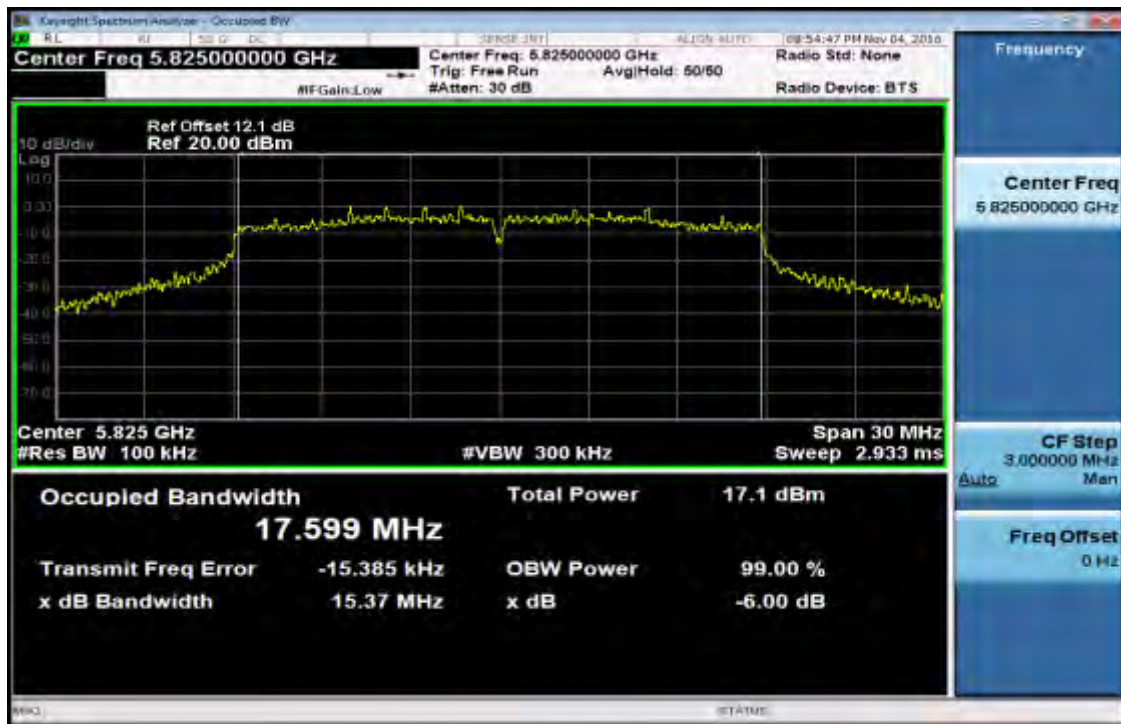
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6dB Band Width Test Data CH-High (5825 MHz)



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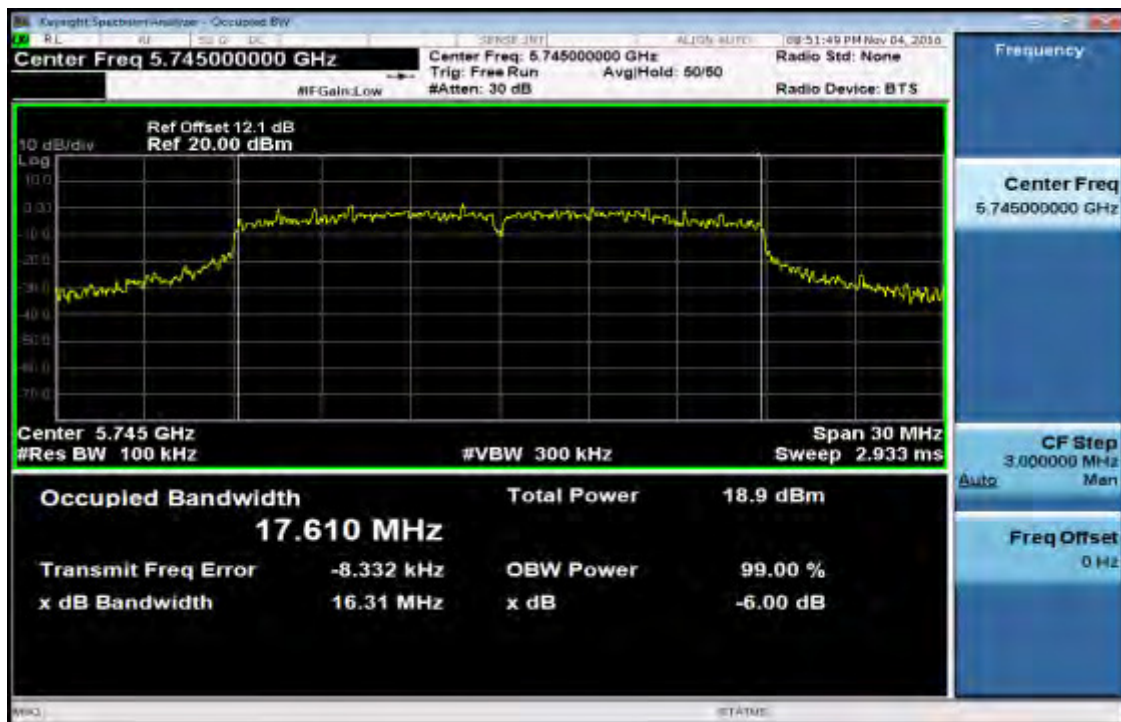
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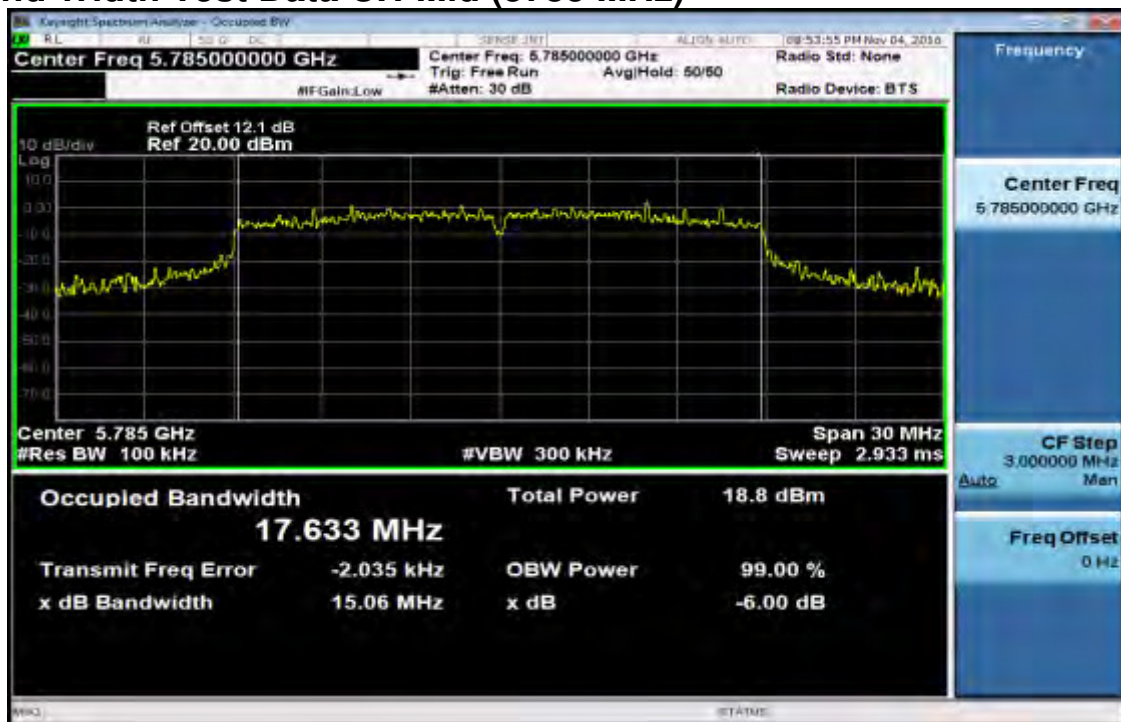
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802.11n_HT20, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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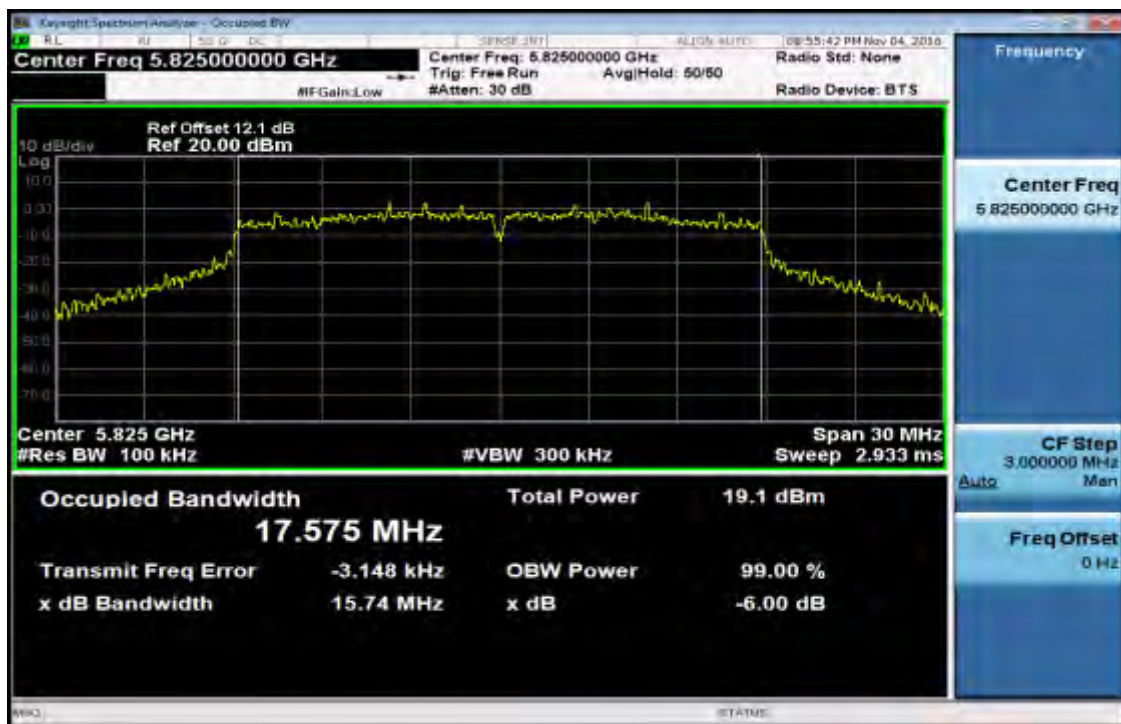
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6dB Band Width Test Data CH-High (5825 MHz)



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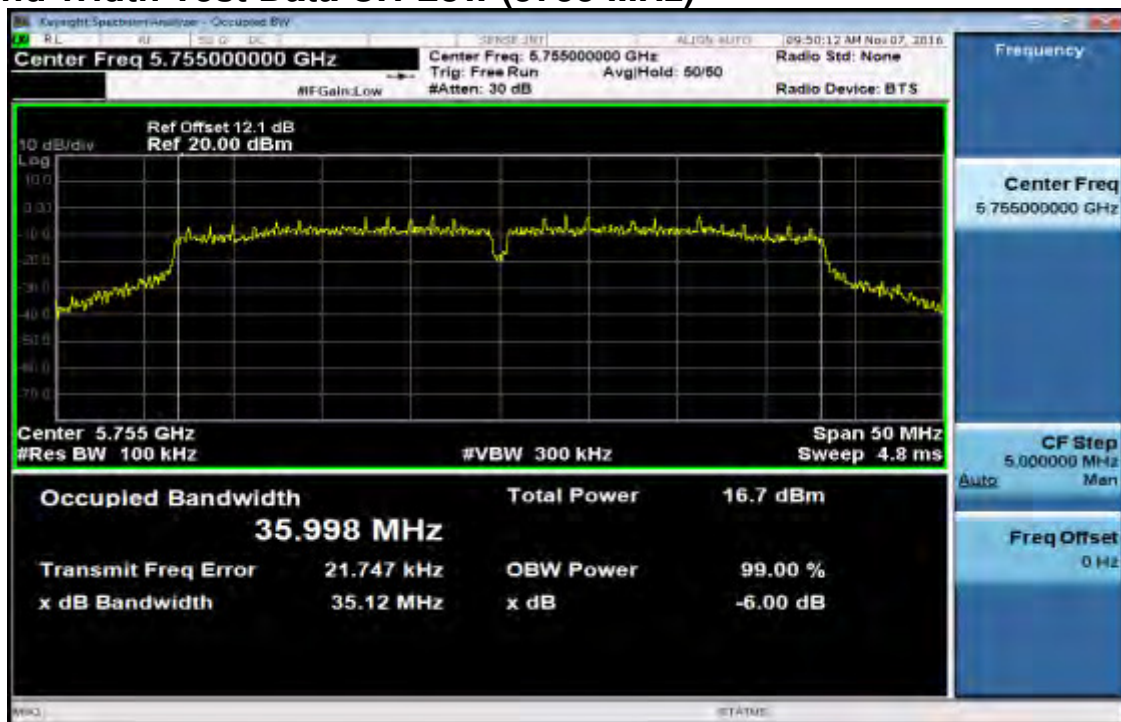
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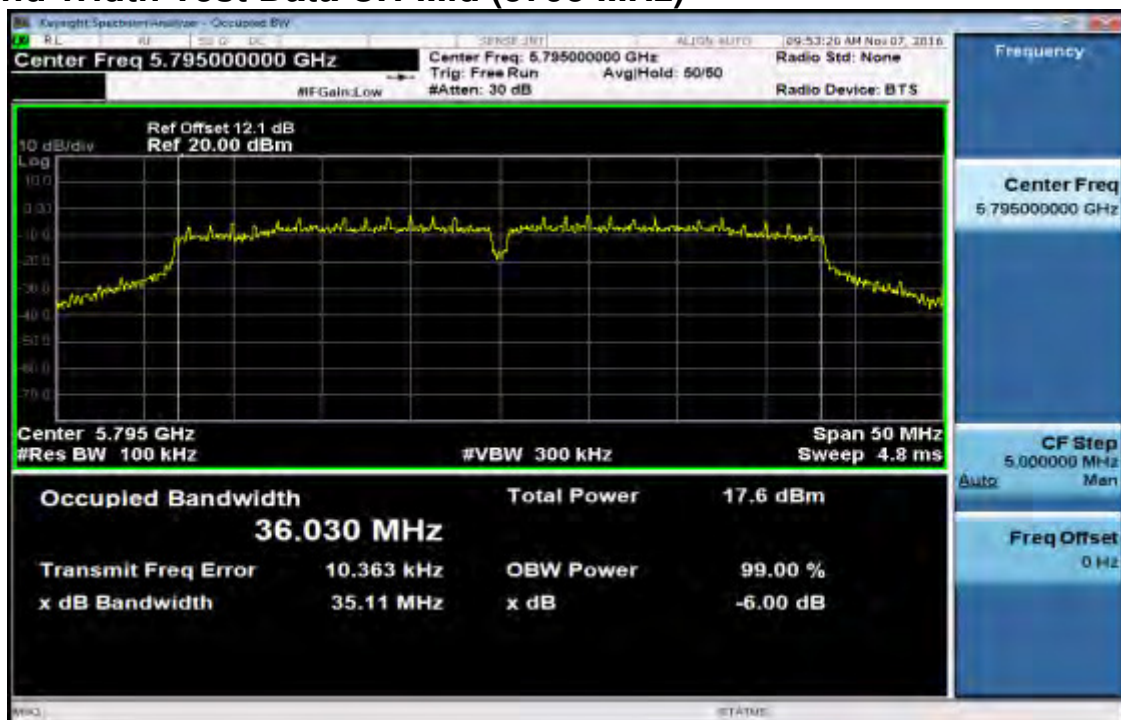
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-Mid (5795 MHz)



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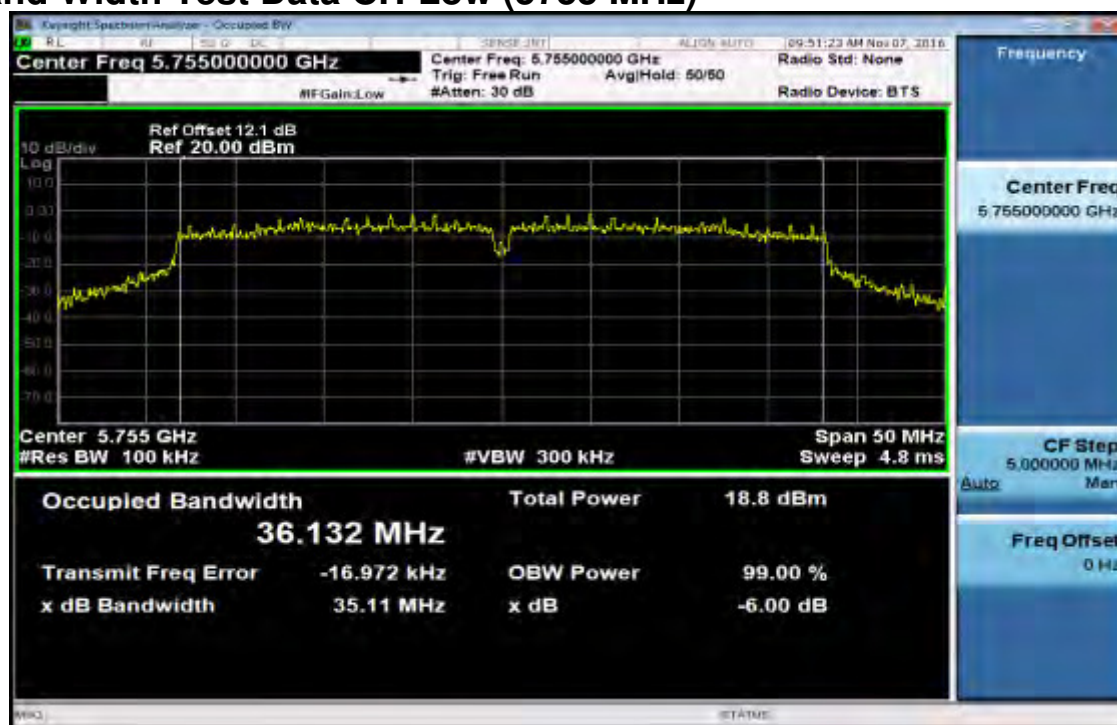
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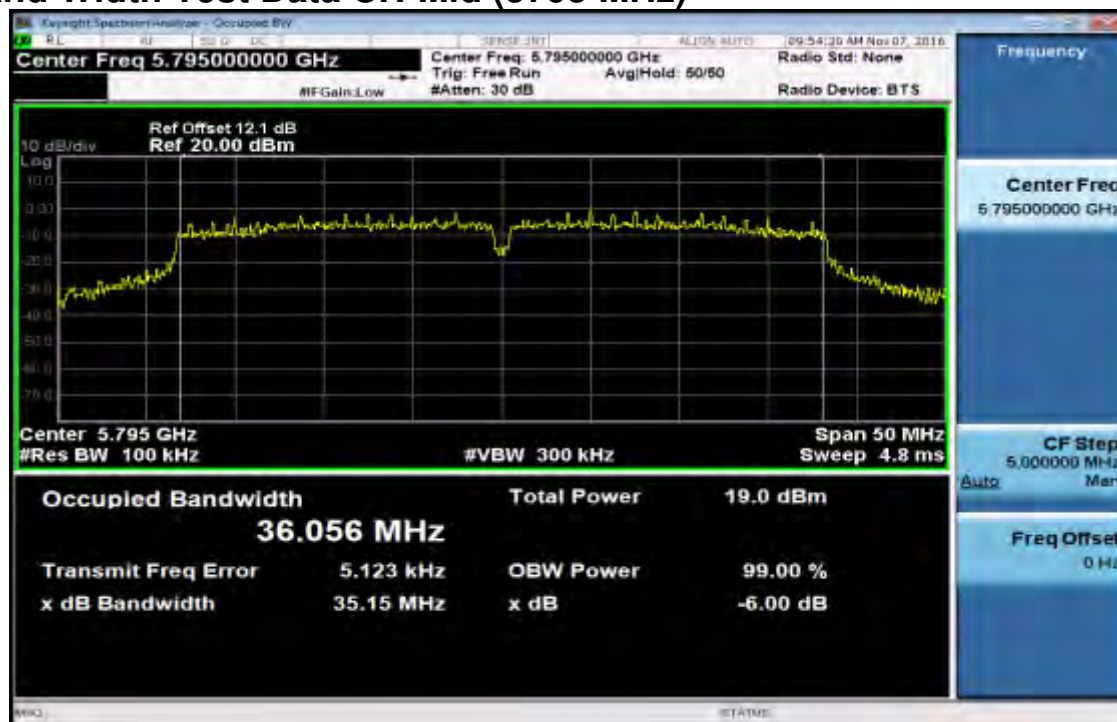
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802.11n_HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-Mid (5795 MHz)



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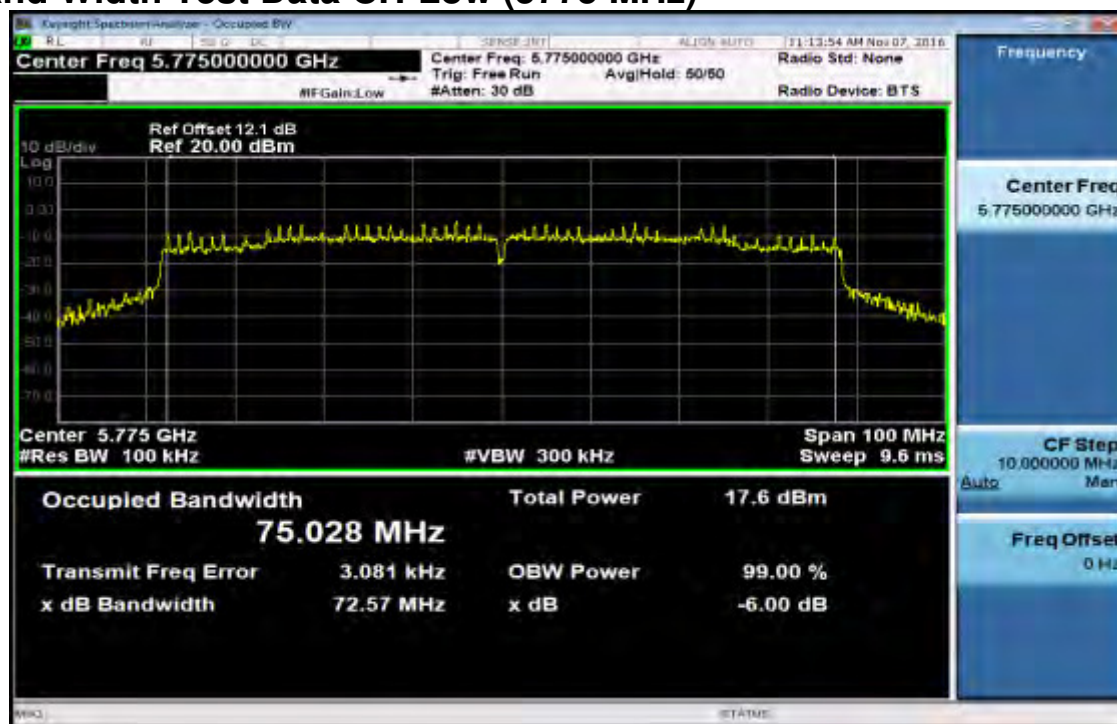
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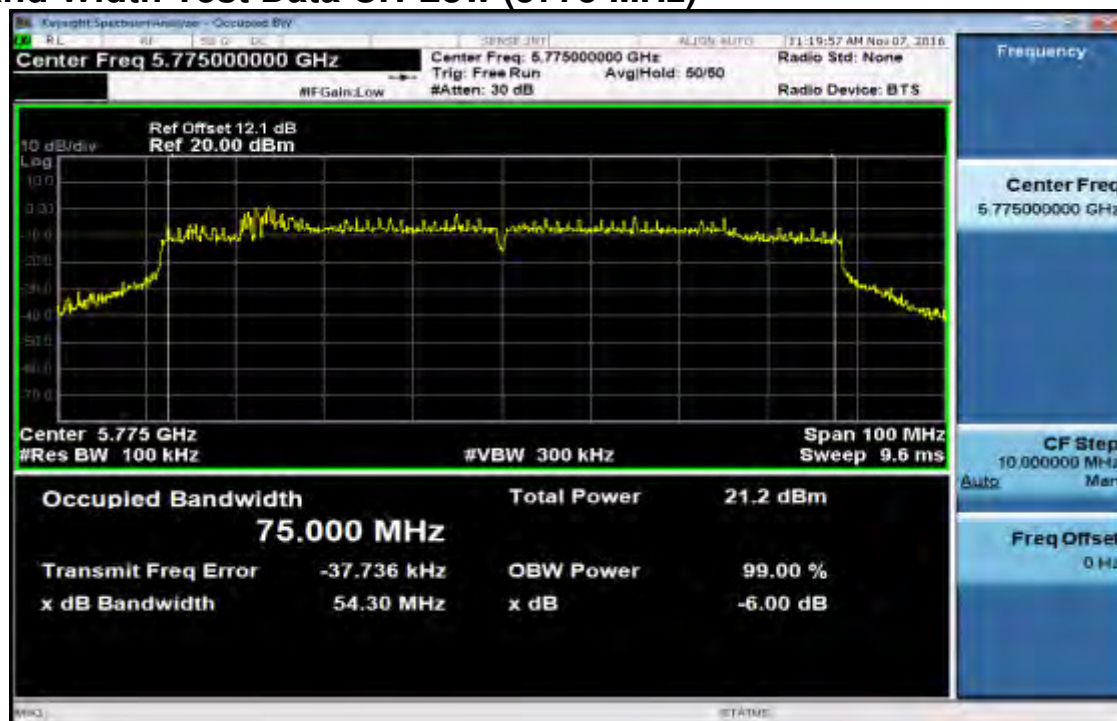
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5775 MHz)



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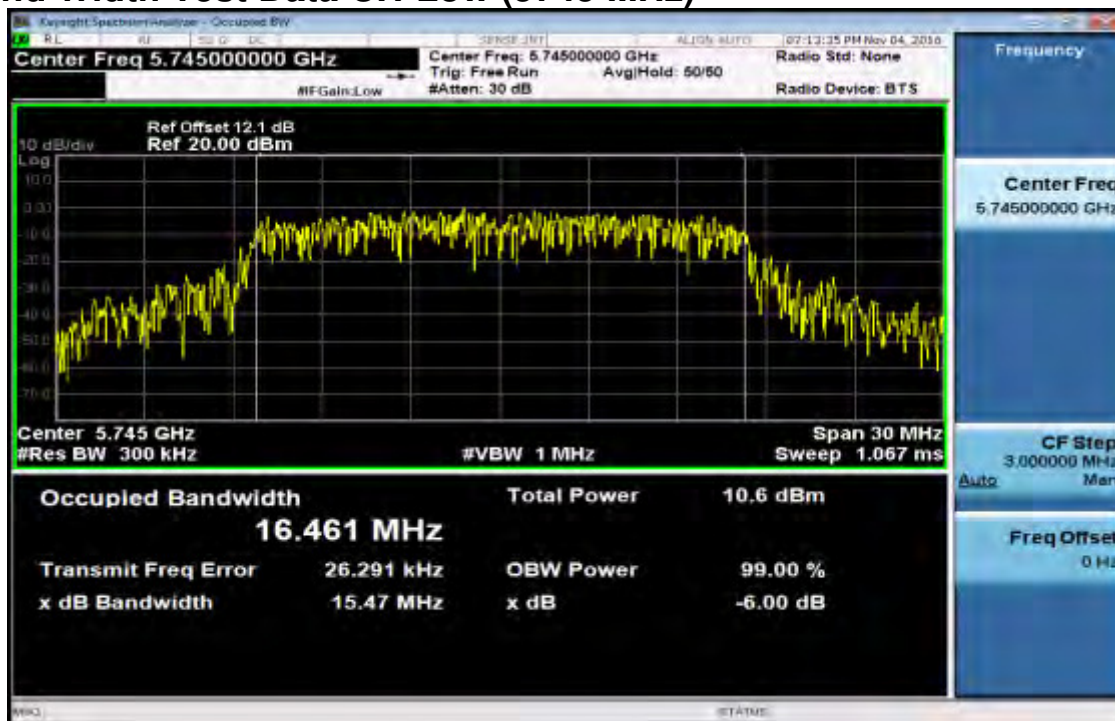
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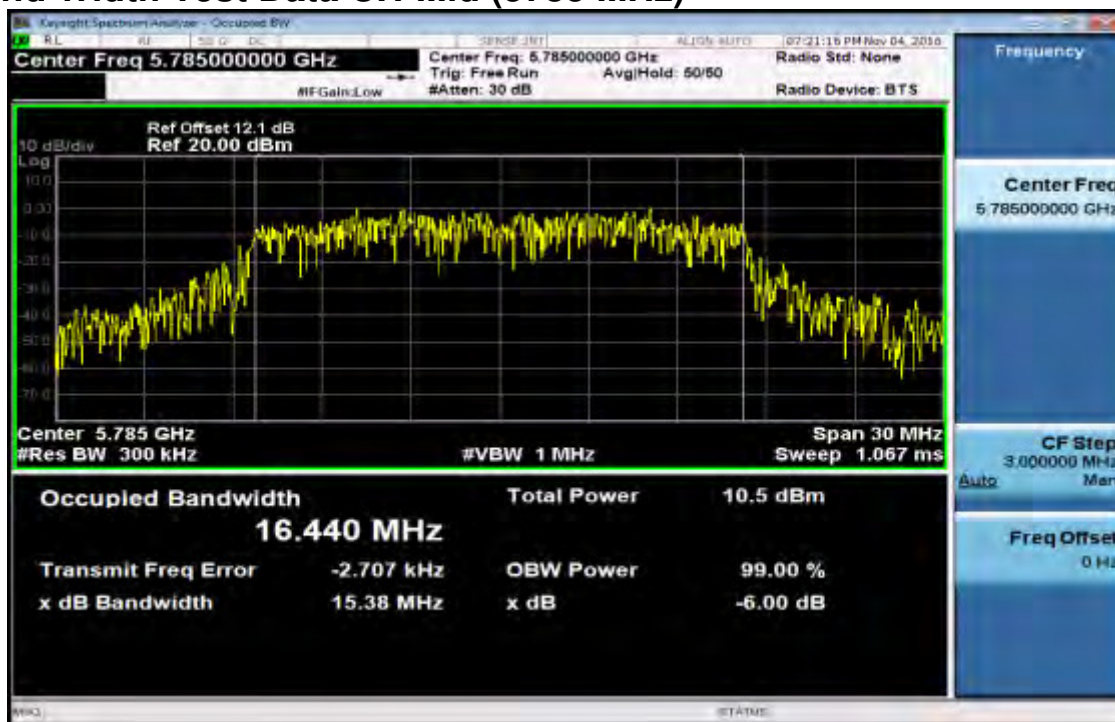
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6dB Band Width measure with Average detector for IC 802.11a, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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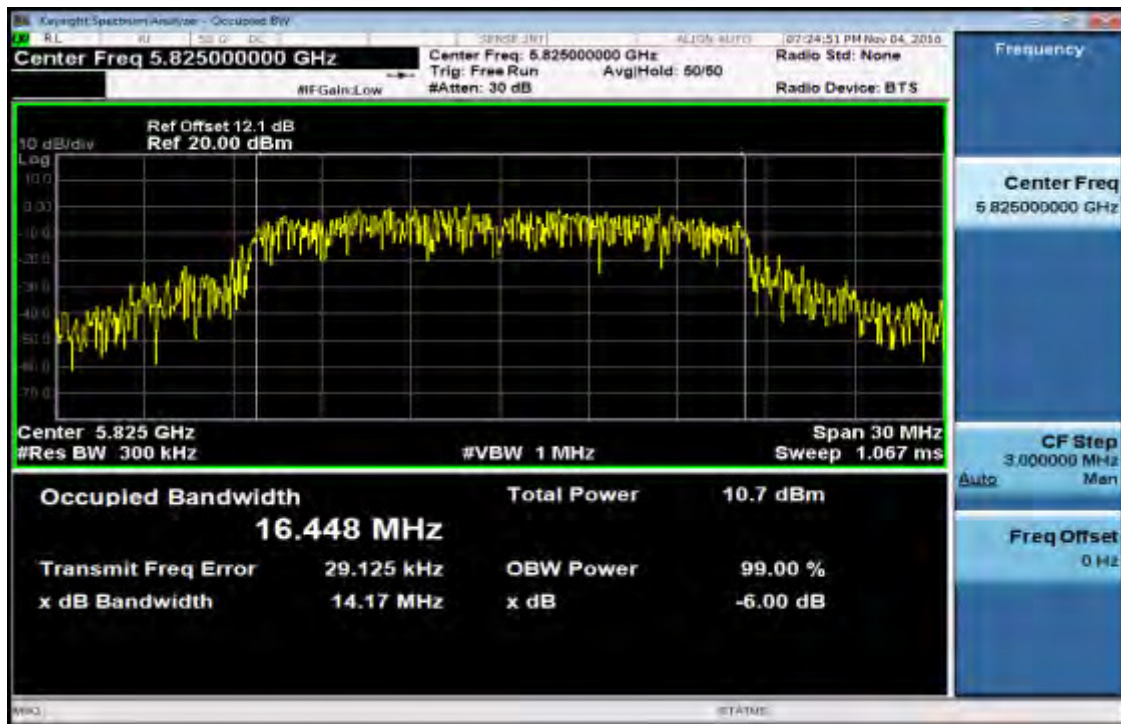
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6dB Band Width Test Data CH-High (5825 MHz)



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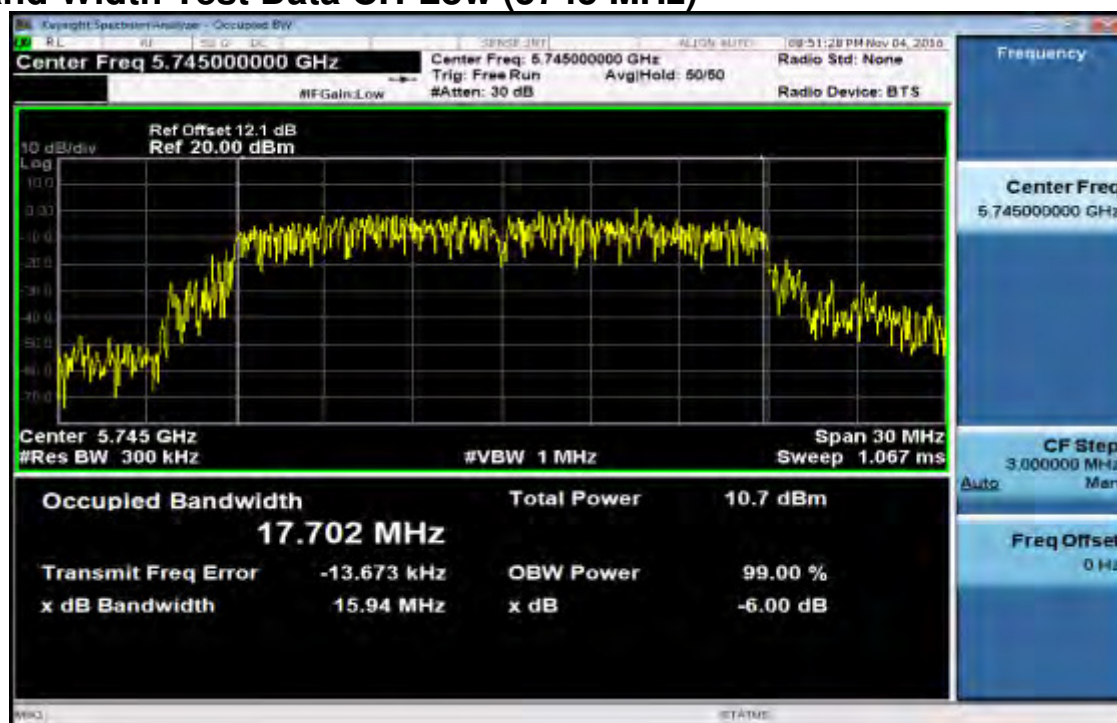
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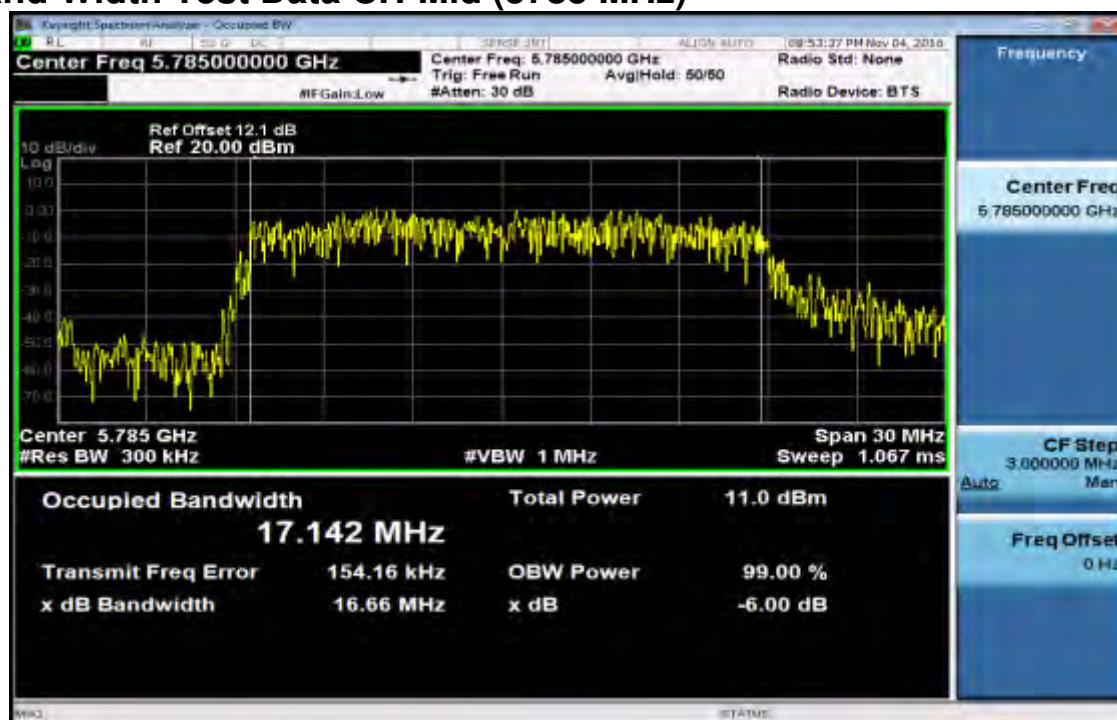
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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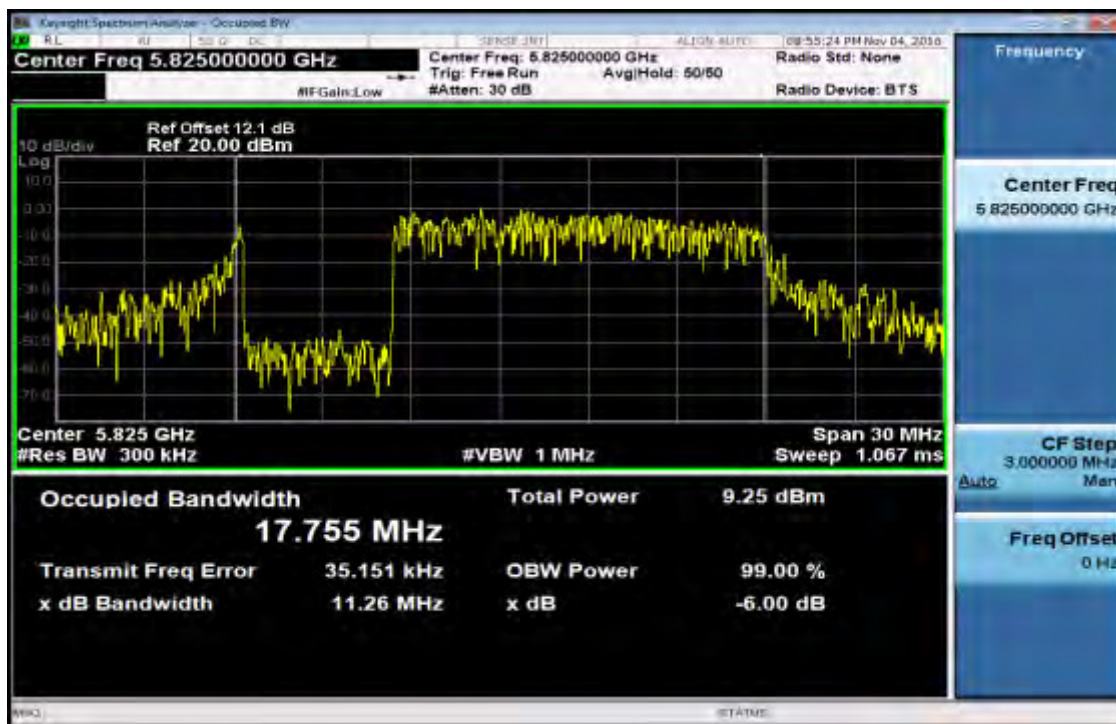
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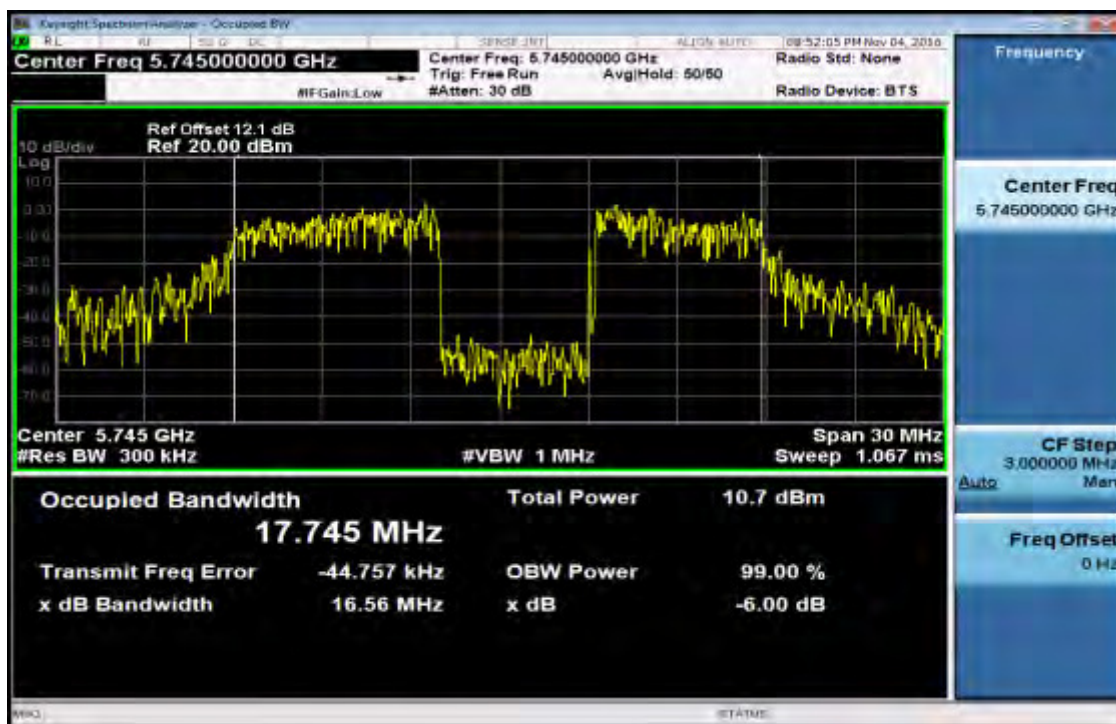
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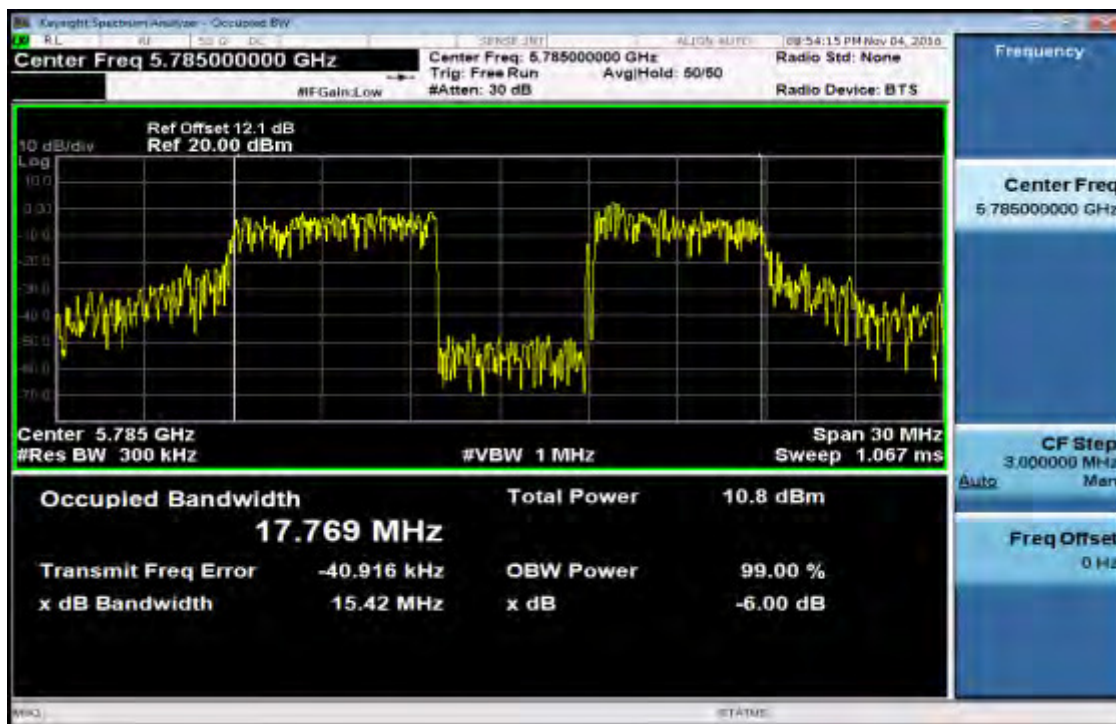
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6dB Band Width Test Data CH-Mid (5785 MHz)



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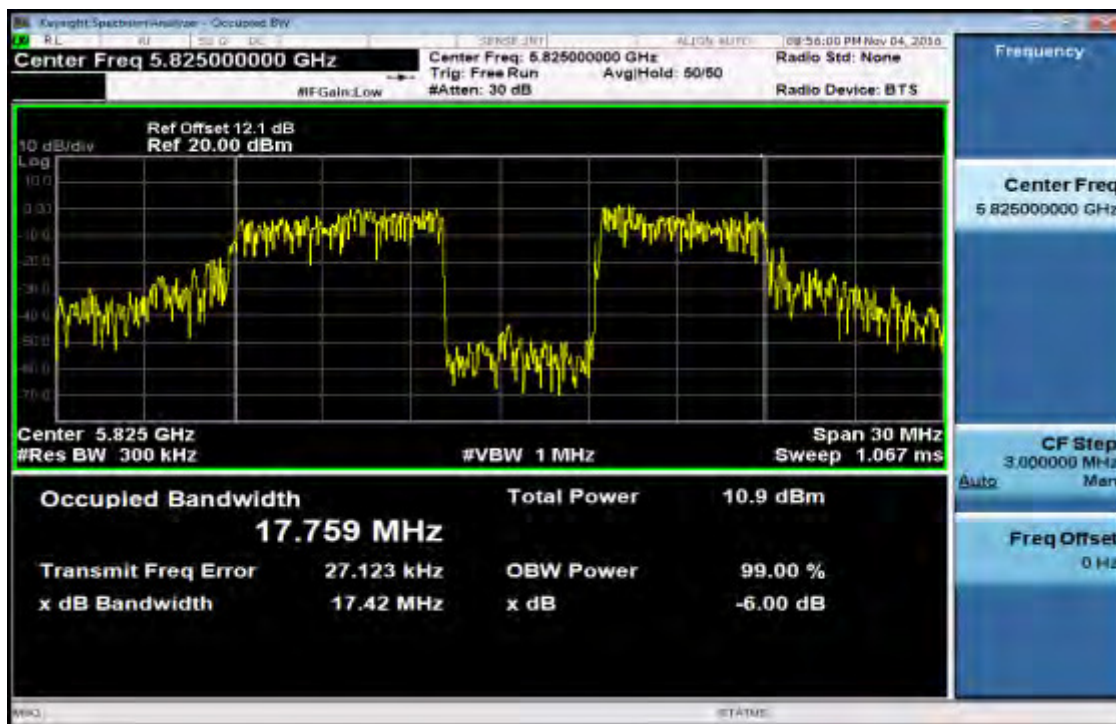
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6dB Band Width Test Data CH-High (5825 MHz)



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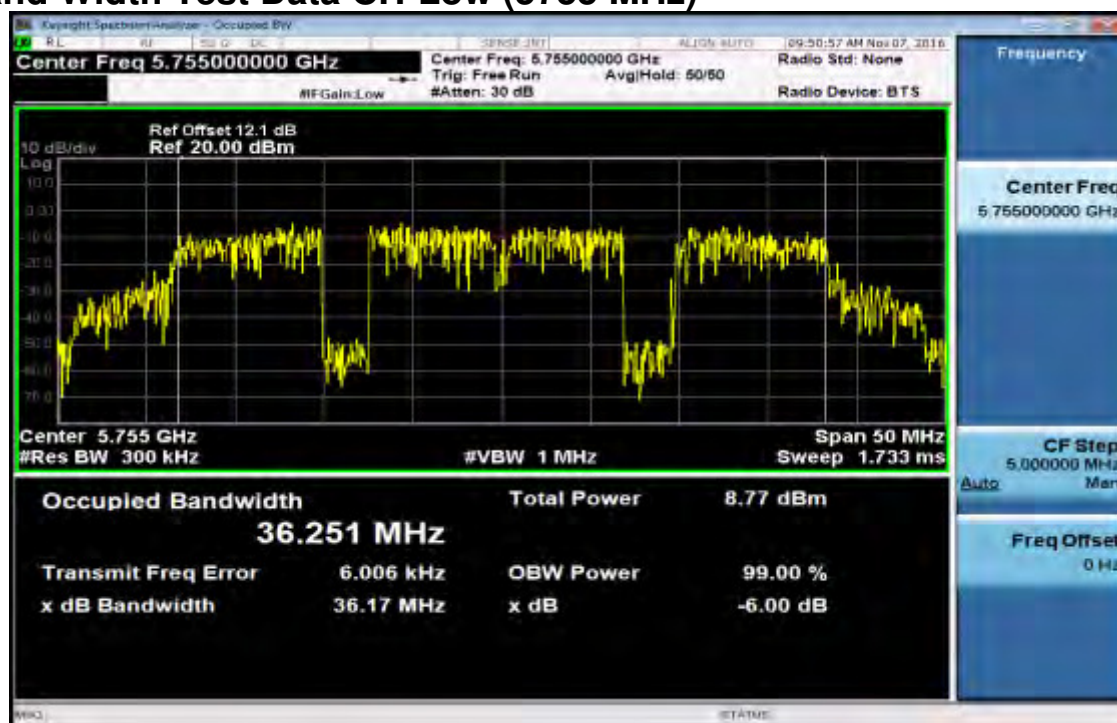
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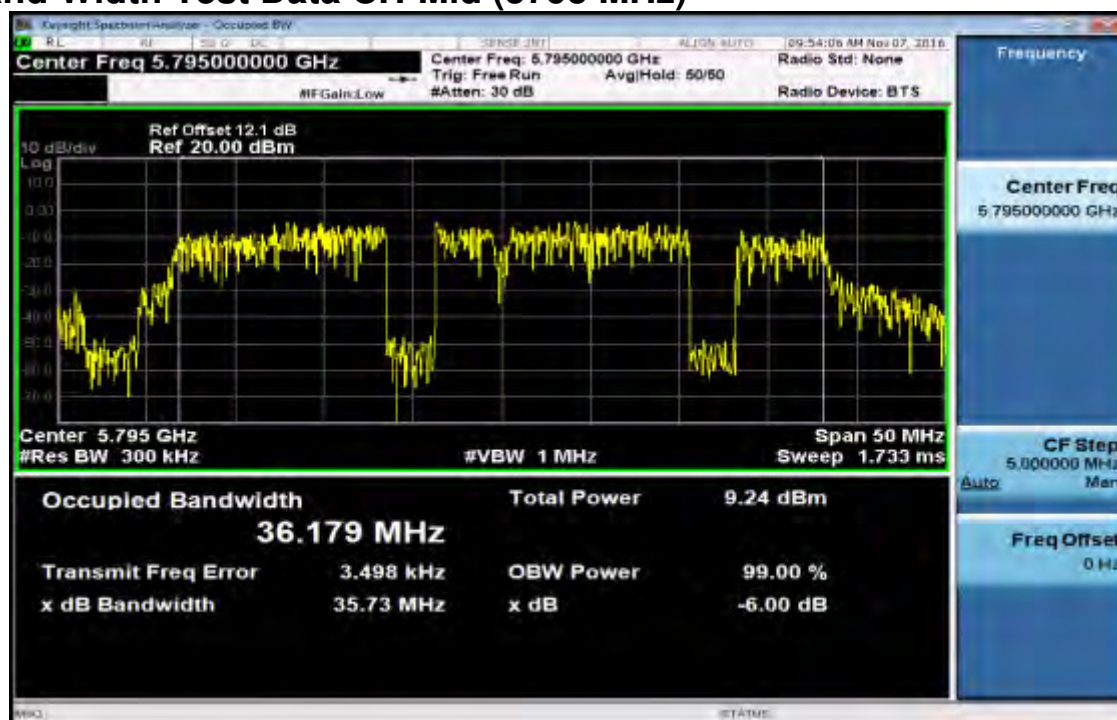
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-Mid (5795 MHz)



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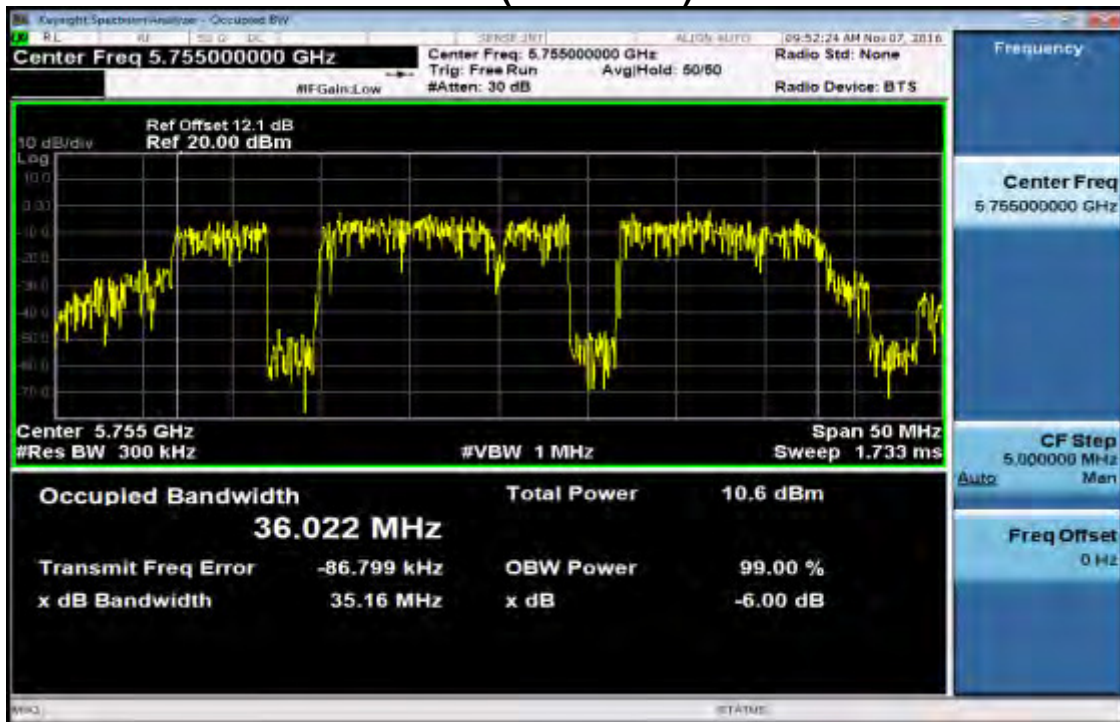
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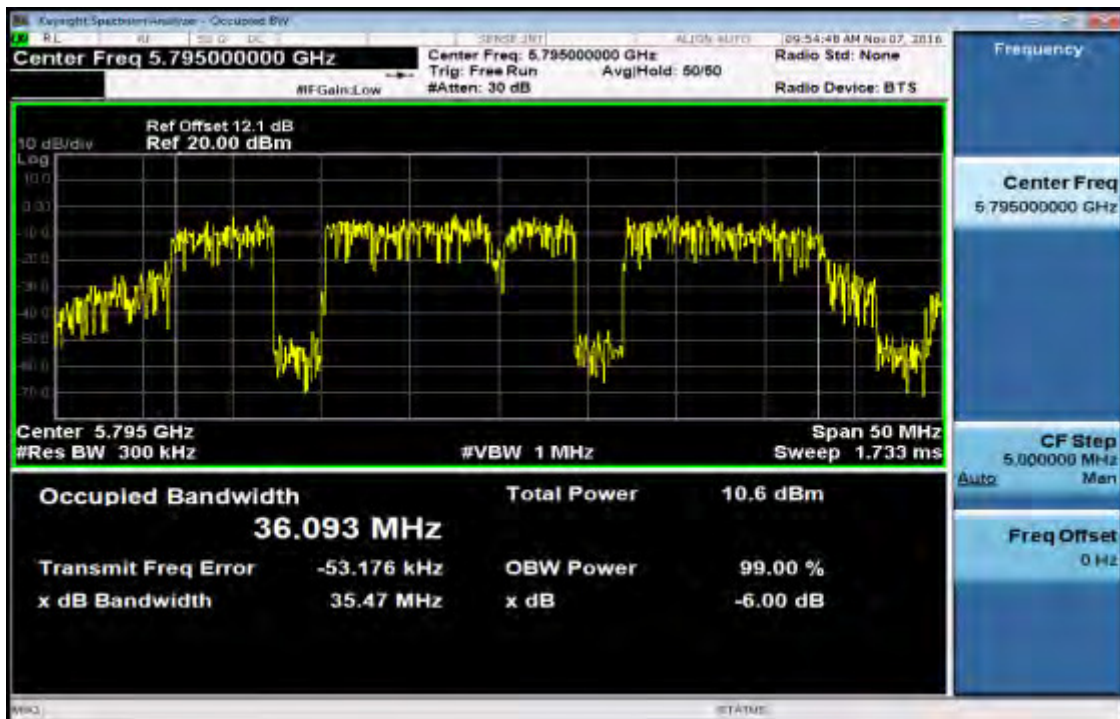
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802.11n_HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-Mid (5795 MHz)



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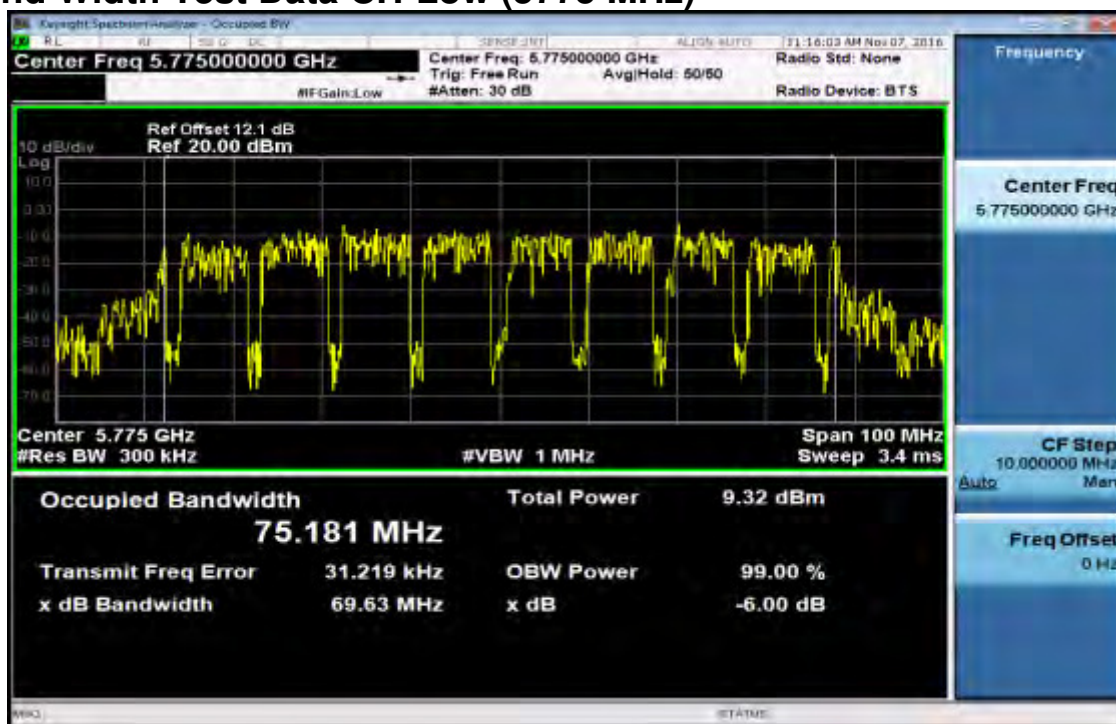
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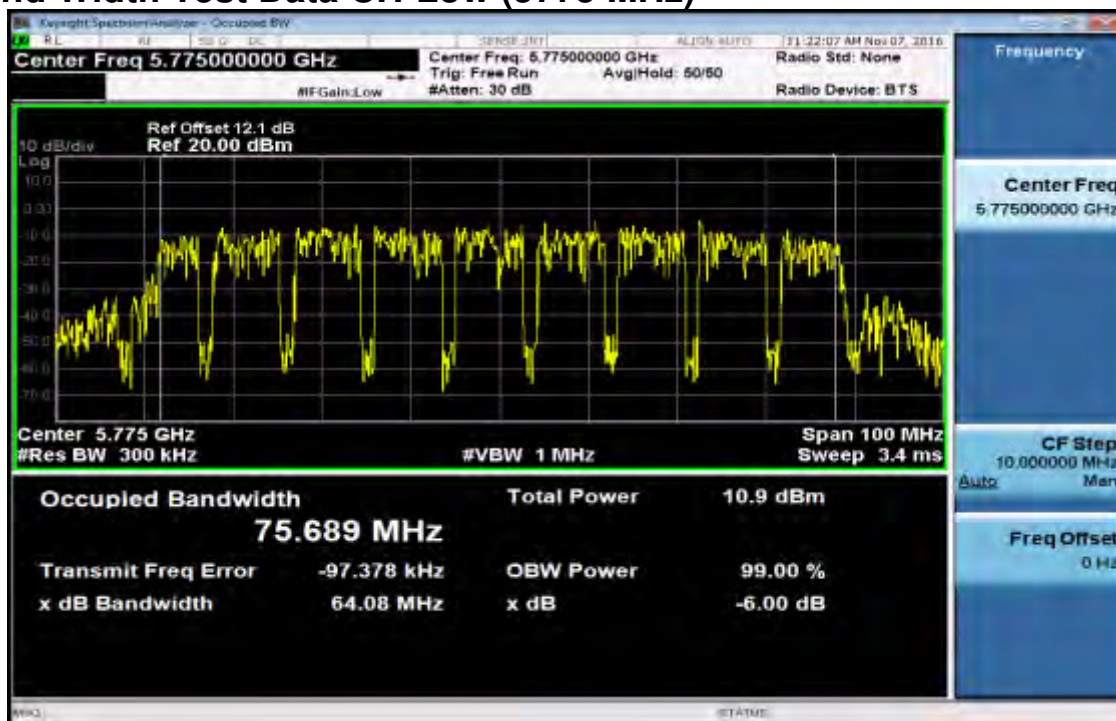
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5775 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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Note: 5.15-5.25G

Antenna1 Gain: -0.12 dBi

Antenna2 Gain: -0.97 dBi

Number Antenna: 2 pcs

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 2.89 dBi

Note: 5.25-5.35G

Antenna1 Gain: 0.68 dBi

Antenna2 Gain: -0.63 dBi

Number Antenna: 2 pcs

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3.69 dBi

Note: 5.47-5.725G

Antenna1 Gain: 0.53 dBi

Antenna2 Gain: -0.99 dBi

Number Antenna: 2 pcs

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3.54 dBi

9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antennport to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Note: For the overlapped channels between U-NII-2C and U-NII-3, and according to FCC KDB 644545 D03 the power is computed based on the portion of the emission bandwidth contained within that band. This rule is only applicable for those channels marked as overlapped.

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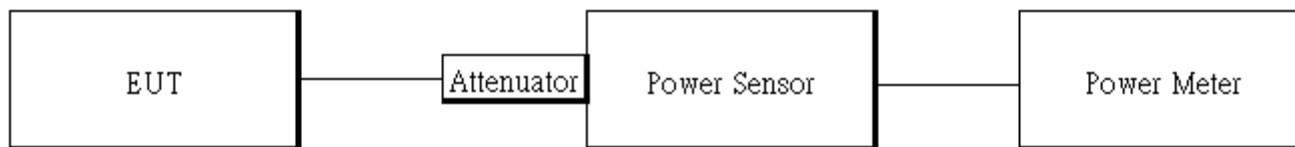
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9.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBDA	RFLT2W1G1 8G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.44	22.080	23.98	PASS
44	5220	MCS0	13.39	21.827	23.98	PASS
48	5240	MCS0	13.47	22.233	23.98	PASS
52	5260	MCS0	13.36	21.677	23.98 or $11+10\log(B) = 23.89$	PASS
60	5300	MCS0	13.32	21.478	23.98 or $11+10\log(B) = 24.03$	PASS
64	5320	MCS0	13.33	21.528	23.98 or $11+10\log(B) = 23.93$	PASS
100	5500	MCS0	13.32	21.478	23.98 or $11+10\log(B) = 24.02$	PASS
116	5580	MCS0	13.33	21.528	23.98 or $11+10\log(B) = 23.90$	PASS
140	5700	MCS0	13.43	22.029	23.98 or $11+10\log(B) = 24.02$	PASS
149	5745	MCS0	13.48	22.284	30	PASS
157	5785	MCS0	13.36	21.677	30	PASS
165	5825	MCS0	13.42	21.979	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	13.44	13.28	16.37	43.361	23.98	PASS
44	5220	MCS8	13.42	13.33	16.39	43.506	23.98	PASS
48	5240	MCS8	13.47	13.33	16.41	43.761	23.98	PASS
52	5260	MCS8	13.46	13.27	16.38	43.414	23.98 or $11+10\log(B) = 24.15$	PASS
60	5300	MCS8	13.53	13.32	16.44	44.021	23.98 or $11+10\log(B) = 24.16$	PASS
64	5320	MCS8	13.51	13.14	16.34	43.045	23.98 or $11+10\log(B) = 24.27$	PASS
100	5500	MCS8	13.54	13.32	16.44	44.073	23.98 or $11+10\log(B) = 24.16$	PASS
116	5580	MCS8	13.64	13.27	16.47	44.353	23.98 or $11+10\log(B) = 23.98$	PASS
140	5700	MCS8	13.66	13.21	16.45	44.168	23.98 or $11+10\log(B) = 24.16$	PASS
144(BAND3)	5720	MCS8	12.16	11.85	15.02	31.755	23.98 or $11+10\log(B) = 24.06$	PASS
144(BAND4)	5720	MCS8	1.4	1.4	4.41	2.761	30	PASS
149	5745	MCS8	13.51	13.33	16.43	43.967	30	PASS
157	5785	MCS8	13.52	13.31	16.43	43.919	30	PASS
165	5825	MCS8	13.62	13.24	16.44	44.101	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	13.61	13.35	16.49	44.589	23.98	PASS
46	5230	MCS8	13.63	13.31	16.48	44.496	23.98	PASS
54	5270	MCS8	13.47	13.43	16.46	44.262	23.98 or $11+10\log(B) = 27.06$	PASS
62	5310	MCS8	12.54	12.41	15.49	35.365	23.98 or $11+10\log(B) = 27.20$	PASS
102	5510	MCS8	12.91	12.65	15.79	37.951	23.98 or $11+10\log(B) = 27.26$	PASS
110	5550	MCS8	13.52	13.4	16.47	44.368	23.98 or $11+10\log(B) = 26.99$	PASS
134	5670	MCS8	13.46	13.34	16.41	43.759	23.98 or $11+10\log(B) = 27.19$	PASS
142(BAND3)	5710	MCS8	12.73	12.5	15.63	36.533	23.98 or $11+10\log(B) = 27.10$	PASS
142(BAND4)	5710	MCS8	0.81	0.81	3.82	2.410	30	PASS
151	5755	MCS8	13.5	13.38	16.45	44.164	30	PASS
159	5795	MCS8	13.6	13.34	16.48	44.486	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	13.61	13.03	16.34	43.052	23.98	PASS
44	5220	MCS8	13.58	13.11	16.36	43.268	23.98	PASS
48	5240	MCS8	13.62	13.09	16.37	43.385	23.98	PASS
52	5260	MCS8	13.62	13.04	16.35	43.152	23.98 or $11+10\log(B) = 24.15$	PASS
60	5300	MCS8	13.69	13.08	16.41	43.712	23.98 or $11+10\log(B) = 24.16$	PASS
64	5320	MCS8	13.67	12.91	16.32	42.824	23.98 or $11+10\log(B) = 24.27$	PASS
100	5500	MCS8	13.48	13.31	16.41	43.713	23.98 or $11+10\log(B) = 24.16$	PASS
116	5580	MCS8	13.81	13.05	16.46	44.227	23.98 or $11+10\log(B) = 23.98$	PASS
140	5700	MCS8	13.82	12.95	16.42	43.823	23.98 or $11+10\log(B) = 24.16$	PASS
149	5745	MCS8	13.87	12.88	16.41	43.787	30	PASS
157	5785	MCS8	13.88	12.86	16.41	43.754	30	PASS
165	5825	MCS8	13.98	12.81	16.44	44.102	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	13.42	13.01	16.23	41.977	23.98	PASS
46	5230	MCS8	13.46	12.99	16.24	42.089	23.98	PASS
54	5270	MCS8	13.31	13.08	16.21	41.752	23.98 or 11+10log(B) = 27.06	PASS
62	5310	MCS8	12.37	12.08	15.24	33.402	23.98 or 11+10log(B) = 27.20	PASS
102	5510	MCS8	12.75	12.29	15.54	35.780	23.98 or 11+10log(B) = 27.26	PASS
110	5550	MCS8	13.35	13.08	16.23	41.951	23.98 or 11+10log(B) = 26.99	PASS
134	5670	MCS8	13.29	12.99	16.15	41.237	23.98 or 11+10log(B) = 27.19	PASS
151	5755	MCS8	13.33	13.02	16.19	41.573	30	PASS
159	5795	MCS8	13.41	12.99	16.22	41.835	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS8	13.58	13.35	16.48	44.431	23.98	PASS
58	5290	MCS8	9.95	9.94	12.96	19.748	23.98 or 11+10log(B) = 30.00	PASS
106	5530	MCS8	11.69	11.24	14.48	28.062	23.98 or 11+10log(B) = 29.87	PASS
122	5610	MCS8	13.53	13.38	16.47	44.319	23.98 or 11+10log(B) = 29.87	PASS
138(Band3)	5690	MCS8	13.08	12.79	15.95	39.334	23.98 or 11+10log(B) = 30.02	PASS
138(Band4)	5690	MCS8	0.51	0.51	3.52	2.249	30	PASS
155	5775	MCS8	13.58	13.27	16.44	44.036	30	PASS

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Conducted output power (IC)

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.36	21.677	23.98 or $11+10\log(B) = 23.12$	PASS
60	5300	13.32	21.478	23.98 or $11+10\log(B) = 23.14$	PASS
64	5320	13.33	21.528	23.98 or $11+10\log(B) = 23.17$	PASS
100	5500	13.32	21.478	23.98 or $11+10\log(B) = 23.13$	PASS
116	5580	13.33	21.528	23.98 or $11+10\log(B) = 23.16$	PASS
140	5700	13.43	22.029	23.98 or $11+10\log(B) = 23.12$	PASS
149	5745	13.48	22.284	30	PASS
157	5785	13.36	21.677	30	PASS
165	5825	13.42	21.979	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	13.46	13.27	16.38	43.414	23.98 or $11+10\log(B) = 23.46$	PASS
60	5300	13.53	13.32	16.44	44.021	23.98 or $11+10\log(B) = 23.47$	PASS
64	5320	13.51	13.14	16.34	43.045	23.98 or $11+10\log(B) = 23.50$	PASS
100	5500	13.54	13.32	16.44	44.073	23.98 or $11+10\log(B) = 23.48$	PASS
116	5580	13.64	13.27	16.47	44.353	23.98 or $11+10\log(B) = 23.45$	PASS
140	5700	13.66	13.21	16.45	44.168	23.98 or $11+10\log(B) = 23.47$	PASS
144(BAND3)	5720	12.16	11.85	15.02	31.755	23.98 or $11+10\log(B) = 22.72$	PASS
144(BAND4)	5720	1.4	1.4	4.41	2.761	30	PASS
149	5745	13.51	13.33	16.43	43.967	30	PASS
157	5785	13.52	13.31	16.43	43.919	30	PASS
165	5825	13.62	13.24	16.44	44.101	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	13.62	13.04	16.35	43.152	23.98 or $11+10\log(B) = 23.46$	PASS
60	5300	13.69	13.08	16.41	43.712	23.98 or $11+10\log(B) = 23.47$	PASS
64	5320	13.67	12.91	16.32	42.824	23.98 or $11+10\log(B) = 23.50$	PASS
100	5500	13.48	13.31	16.41	43.713	23.98 or $11+10\log(B) = 23.48$	PASS
116	5580	13.81	13.05	16.46	44.227	23.98 or $11+10\log(B) = 23.45$	PASS
140	5700	13.82	12.95	16.42	43.823	23.98 or $11+10\log(B) = 23.47$	PASS
149	5745	13.87	12.88	16.41	43.787	30	PASS
157	5785	13.88	12.86	16.41	43.754	30	PASS
165	5825	13.98	12.81	16.44	44.102	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	13.47	13.43	16.46	44.262	23.98 or 11+10log(B) = 26.58	PASS
62	5310	12.54	12.41	15.49	35.365	23.98 or 11+10log(B) = 26.57	PASS
102	5510	12.91	12.65	15.79	37.951	23.98 or 11+10log(B) = 26.56	PASS
110	5550	13.52	13.4	16.47	44.368	23.98 or 11+10log(B) = 26.59	PASS
134	5670	13.46	13.34	16.41	43.759	23.98 or 11+10log(B) = 26.58	PASS
142(BAND3)	5710	0.81	0.81	3.82	2.410	23.98 or 11+10log(B) = 26.57	PASS
142(BAND4)	5710	13.5	13.38	16.45	44.164	30	PASS
151	5755	13.5	13.38	16.45	44.164	30	PASS
159	5795	13.6	13.34	16.48	44.486	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	13.31	13.08	16.21	41.752	23.98 or 11+10log(B) = 26.58	PASS
62	5310	12.37	12.08	15.24	33.402	23.98 or 11+10log(B) = 26.57	PASS
102	5510	12.75	12.29	15.54	35.780	23.98 or 11+10log(B) = 26.56	PASS
110	5550	13.35	13.08	16.23	41.951	23.98 or 11+10log(B) = 26.59	PASS
134	5670	13.29	12.99	16.15	41.237	23.98 or 11+10log(B) = 26.58	PASS
151	5755	13.33	13.02	16.19	41.573	30	PASS
159	5795	13.41	12.99	16.22	41.835	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	9.95	9.94	12.96	19.748	23.98 or 11+10log(B) = 29.75	PASS
106	5530	11.69	11.24	14.48	28.062	23.98 or 11+10log(B) = 29.77	PASS
122	5610	13.53	13.38	16.47	44.319	23.98 or 11+10log(B) = 29.76	PASS
138(Band3)	5690	13.08	12.79	15.95	39.334	23.98 or 11+10log(B) = 29.76	PASS
138(Band4)	5690	0.51	0.51	3.52	2.249	30	PASS
155	5775	13.58	13.27	16.44	44.036	30	PASS

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EIRP

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.44	-0.120	13.32	21.478	23.01 or 10+10log(B)= 22.16	PASS
44	5220	13.39	-0.120	13.27	21.232	23.01 or 10+10log(B)= 22.15	PASS
48	5240	13.47	-0.120	13.35	21.627	23.01 or 10+10log(B)= 22.19	PASS
52	5260	13.36	0.680	14.04	25.351	30 or 17+10log(B)= 29.12	PASS
60	5300	13.32	0.680	14.00	25.119	30 or 17+10log(B)= 29.14	PASS
64	5320	13.33	0.680	14.01	25.177	30 or 17+10log(B)= 29.17	PASS
100	5500	13.32	0.530	13.85	24.266	30 or 17+10log(B)= 29.13	PASS
116	5580	13.33	0.530	13.86	24.322	30 or 17+10log(B)= 29.16	PASS
140	5700	13.43	0.530	13.96	24.889	30 or 17+10log(B)= 29.12	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.37	2.890	19.26	84.354	23.01 or 10+10log(B)= 22.48	PASS
44	5220	16.39	2.890	19.28	84.636	23.01 or 10+10log(B)= 22.49	PASS
48	5240	16.41	2.890	19.30	85.131	23.01 or 10+10log(B)= 22.47	PASS
52	5260	16.38	3.690	20.07	101.539	30 or 17+10log(B)= 29.46	PASS
60	5300	16.44	3.690	20.13	102.957	30 or 17+10log(B)= 29.47	PASS
64	5320	16.34	3.690	20.03	100.676	30 or 17+10log(B)= 29.50	PASS
100	5500	16.44	3.540	19.98	99.579	30 or 17+10log(B)= 29.48	PASS
116	5580	16.47	3.540	20.01	100.213	30 or 17+10log(B)= 29.45	PASS
140	5700	16.45	3.540	19.99	99.796	30 or 17+10log(B)= 29.47	PASS
144(BAND3)	5720	15.02	5.030	20.05	101.113	30 or 17+10log(B)= 28.72	PASS
144(BAND4)	5720	4.41	0.000	4.41	2.761	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.34	2.890	19.23	83.752	23.01 or 10+10log(B)= 22.48	PASS
44	5220	16.36	2.890	19.25	84.172	23.01 or 10+10log(B)= 22.49	PASS
48	5240	16.37	2.890	19.26	84.399	23.01 or 10+10log(B)= 22.47	PASS
52	5260	16.35	3.690	20.04	100.925	30 or 17+10log(B)= 29.46	PASS
60	5300	16.41	3.690	20.10	102.235	30 or 17+10log(B)= 29.47	PASS
64	5320	16.32	3.690	20.01	100.159	30 or 17+10log(B)= 29.50	PASS
100	5500	16.41	3.540	19.95	98.767	30 or 17+10log(B)= 29.48	PASS
116	5580	16.46	3.540	20.00	99.929	30 or 17+10log(B)= 29.45	PASS
140	5700	16.42	3.540	19.96	99.016	30 or 17+10log(B)= 29.47	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	16.49	2.890	19.38	86.741	23.01 or $10+10\log(B)=25.58$	PASS
46	5230	16.48	2.890	19.37	86.561	23.01 or $10+10\log(B)=25.57$	PASS
54	5270	16.46	3.690	20.15	103.522	30 or $17+10\log(B)=25.58$	PASS
62	5310	15.49	3.690	19.18	82.714	30 or $17+10\log(B)=25.57$	PASS
102	5510	15.79	3.540	19.33	85.748	30 or $17+10\log(B)=25.56$	PASS
110	5550	16.47	3.540	20.01	100.247	30 or $17+10\log(B)=25.59$	PASS
134	5670	16.41	3.540	19.95	98.872	30 or $17+10\log(B)=25.58$	PASS
142(Band3)	5710	15.63	3.540	19.17	82.543	30 or $17+10\log(B)=25.57$	PASS
142(Band4)	5710	3.82	5.030	8.85	7.674	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	16.23	2.890	19.12	81.661	23.01 or $10+10\log(B)=25.58$	PASS
46	5230	16.24	2.890	19.13	81.878	23.01 or $10+10\log(B)=25.57$	PASS
54	5270	16.21	3.690	19.90	97.652	30 or $17+10\log(B)=25.58$	PASS
62	5310	15.24	3.690	18.93	78.122	30 or $17+10\log(B)=25.57$	PASS
102	5510	15.54	3.540	19.08	80.842	30 or $17+10\log(B)=25.56$	PASS
110	5550	16.23	3.540	19.77	94.785	30 or $17+10\log(B)=25.59$	PASS
134	5670	16.15	3.540	19.69	93.173	30 or $17+10\log(B)=25.58$	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)		REQUIRED LIMIT (dBm)	RESULT
42	5210	16.48	2.890	19.37	86.434	23.01 or $10+10\log(B)=28.76$	PASS
58	5290	12.96	3.690	16.65	46.188	30.00 or $17+10\log(B)=28.75$	PASS
106	5530	14.48	3.540	18.02	63.403	30 or $17+10\log(B)=28.77$	PASS

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