

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name: AC2600 Home WiFi Roaming Router

Brand Name: EDIMAX

Marketing Name: RG21S

Model No.: BR-6877ACR , BR-6877AC, EW-7877APC, RG21S, RA21S, RG21, RA21, RE22S, RG22S, RA22S, RG22S V2, RA22S V2, RE22S V2, CV-6877AC, RE21S, RG21K, RG21S V2, RA21S V2

Model Difference: Marketing purpose

FCC ID: NDD9568771606

Report No.: ER/2016/50026

Issue Date: Aug. 08, 2016

FCC Rule Part: §15.407

Prepared for: EDIMAX TECHNOLOGY CO., LTD.
No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei City, Taiwan

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803



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VERIFICATION OF COMPLIANCE

Applicant: EDIMAX TECHNOLOGY CO., LTD.
No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei
City, Taiwan

Product Name: AC2600 Home WiFi Roaming Router

Brand Name: EDIMAX

Marketing Name: RG21S

Model No.: BR-6877ACR , BR-6877AC, EW-7877APC, RG21S, RA21S,
RG21, RA21, RE22S, RG22S, RA22S, RG22S V2, RA22S V2,
RE22S V2, CV-6877AC, RE21S, RG21K, RG21S V2, RA21S V2

Model Difference: Marketing purpose

FCC ID: NDD9568771606

File Number: ER/2016/50026

Date of Test: May 05, 2016 ~ Aug. 01, 2016

Date of EUT Received: May 05, 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:*Louis Chen***Date:**

Aug. 08, 2016

*Louis Chen / Engineer***Prepared By:***Tiffany Kao***Date:**

Aug. 08, 2016

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

Aug. 08, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/50026	Rev.00	Initial creation of document	Aug. 08, 2016

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	AC2600 Home WiFi Roaming Router	
Brand Name:	EDIMAX	
Marketing Name:	RG21S	
Model No.:	BR-6877ACR , BR-6877AC, EW-7877APC, RG21S, RA21S, RG21, RA21, RE22S, RG22S, RA22S, RG22S V2, RA22S V2, RE22S V2, CV-6877AC, RE21S, RG21K, RG21S V2, RA21S V2	
Model difference:	Marketing purpose	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	12V from DC Power Supply	
	Adapter:	Model No.: WB-18D12R, Supplier: Asian Power Devices Inc.

WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	18.44 dBm	OFDM
	5725-5850	5	18.25 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 18.32 dBm Beam Forming Mode:18.46 dBm (Worst Case)	OFDM
	HT20 / VHT20 5725-5850	5	HT: 18.48 dBm Beam Forming Mode:18.28 dBm (Worst Case)	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 18.41 dBm Beam Forming Mode:18.47 dBm (Worst Case)	OFDM
	HT40 / VHT40 5725-5850	2	HT: 15.80 dBm Beam Forming Mode:15.15dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	17.29 dBm Beam Forming Mode:17.27 dBm	OFDM
	VHT80 5725-5850	1	17.06 dBm Beam Forming Mode:17.31 dBm	

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Antenna Designation	PIFA Antenna 1. Model No.: BR-6877AC, Supplier: LYNwave 5GHz Gain: 4.27dBi (5150MHz-5250MHz) 5GHz Gain: 3.32dBi (5725MHz-5850MHz) 2. Model No.: BR-6877AC, Supplier: LYNwave 5GHz Gain: 2.5dBi (5150MHz-5250MHz) 5GHz Gain: 3.71dBi (5725MHz-5850MHz) Dipole Antenna 1. Model No.: 98324URSX000, Supplier: Master Wave 5GHz Gain: 5.26dBi (5150MHz-5250MHz) 5GHz Gain: 5.83dBi (5725MHz-5850MHz) 2. Model No.: 98324URSX000, Supplier: Master Wave 5GHz Gain: 5.26dBi (5150MHz-5250MHz) 5GHz Gain: 5.83dBi (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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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Wi-Fi 802.11 a/b/g/n & ac features, and below is details of information.

Product Feature	
Product Name:	AC2600 Home WiFi Roaming Router
Brand Name:	EDIMAX
Marketing Name:	RG21S
Model No.:	BR-6877ACR, EW-7877APC
Model Difference:	Marketing purpose
FCC ID:	NDD9568771606
Wi-Fi Specification	802.11a/b/g/n/ac

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

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803. (TAF code 0513)

FCC Registration Numbers are: 59634

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 hand-held 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 4.3dB, and 10dB attenuator.

MIMO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} + 10 \log(N_{\text{ANT}}) \text{ dB} = 14.3\text{dB}$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) configuration

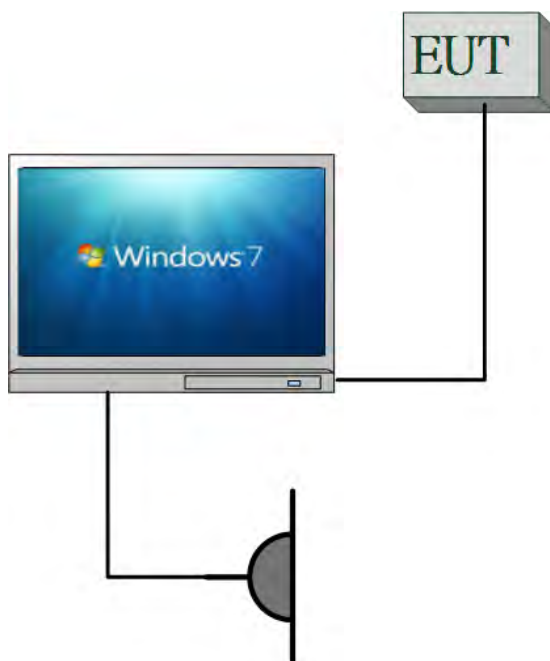


Fig. 2-2 AC Power Line Conducted Emission

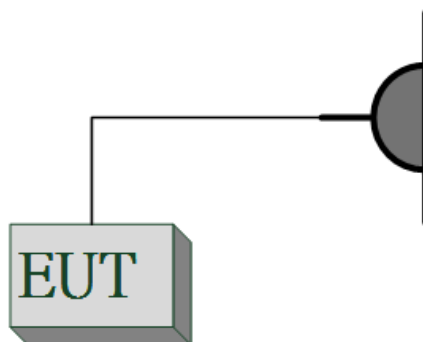


Table 2-1 Equipment Used in Tested System

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.	Notebook	Lenovo	L420	LR-7HXZA	N/A	Un-shielded

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	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 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	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN
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	MCS24	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS24	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS24	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS24	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

Remark: Included CDD and Beam Forming Mode test data.

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.

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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
802.11n_HT20 802.11ac_VHT20				OFDM	MCS24	MIMO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS24	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS24	MIMO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS24	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

Remark: Included CDD and Beam Forming Mode test data.

Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

(i) If transmit signals are *correlated*, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

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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	ESCI7	100760	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/2 50-25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016

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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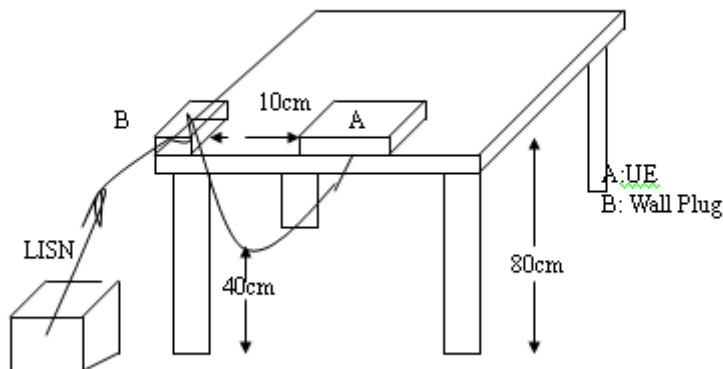
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6.4. Test SET-UP



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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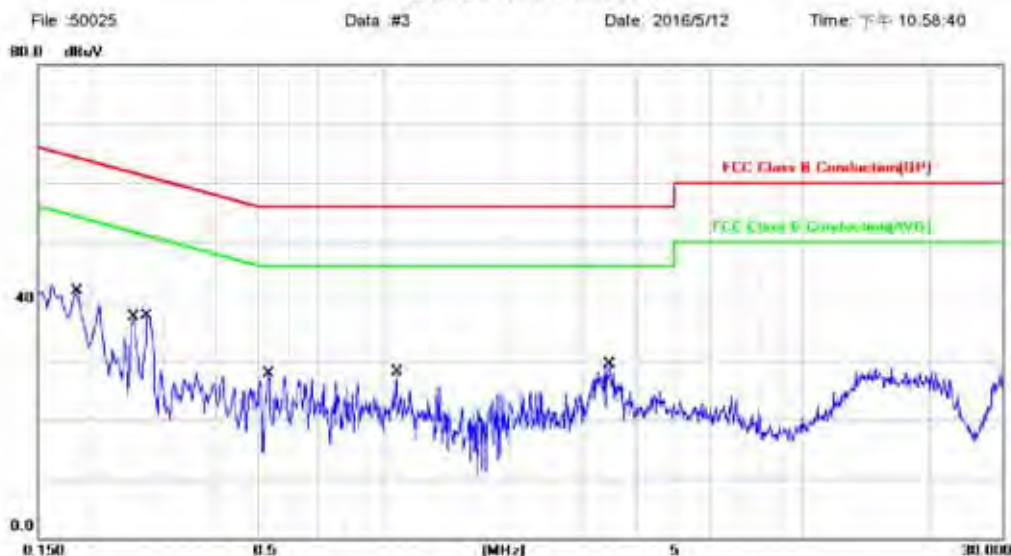
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	May 12, 2016
Temperature:	26	Humidity:	54 %	Test By:	Marcus
				Phase:	L1

Site: Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode: Mode 2
 Note:

Phase: **L1**
 Power: AC 120V/60Hz
 Temperature: 25 °C
 Humidity: 62 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1860	39.70	0.13	39.83	64.21	-24.38	QP	
2		0.1860	34.40	0.13	34.53	54.21	-19.68	AVG	
3		0.2540	38.00	0.13	38.13	61.63	-23.50	QP	
4		0.2540	33.50	0.13	33.63	51.63	-18.00	AVG	
5		0.2760	36.40	0.13	36.53	60.94	-24.41	QP	
6 *		0.2760	34.80	0.13	34.93	50.94	-16.01	AVG	
7		0.5340	24.70	0.15	24.85	56.00	-31.15	QP	
8		0.5340	16.80	0.15	16.95	46.00	-29.05	AVG	
9		1.0780	21.80	0.16	21.96	56.00	-34.04	QP	
10		1.0780	14.40	0.16	14.56	46.00	-31.44	AVG	
11		3.4820	23.90	0.22	24.12	56.00	-31.88	QP	
12		3.4820	14.30	0.22	14.52	46.00	-31.48	AVG	

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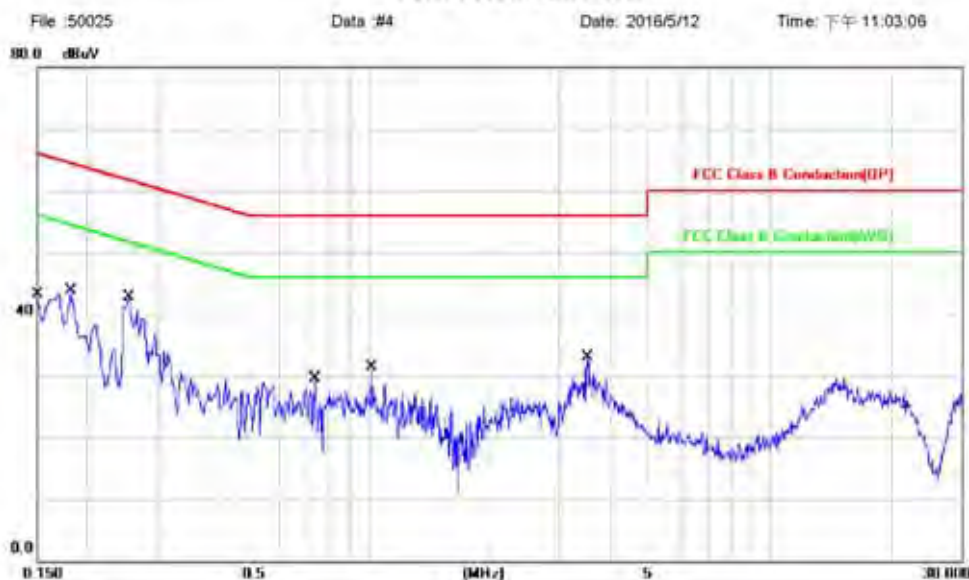
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Site: Conduction Room Phase: **N** Temperature: 25 ℃
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
Mode: Mode 2
Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	42.61	0.20	42.81	66.00	-23.19	QP	
2		0.1500	30.71	0.20	30.91	56.00	-25.09	AVG	
3		0.1820	39.50	0.20	39.70	64.39	-24.69	QP	
4		0.1820	30.60	0.20	30.80	54.39	-23.59	AVG	
5		0.2540	42.30	0.19	42.49	61.63	-19.14	QP	
6 *		0.2540	40.10	0.19	40.29	51.63	-11.34	AVG	
7		0.7380	24.40	0.21	24.61	56.00	-31.39	QP	
8		0.7380	21.70	0.21	21.91	46.00	-24.09	AVG	
9		1.0260	23.30	0.21	23.51	56.00	-32.49	QP	
10		1.0260	16.00	0.21	16.21	46.00	-29.79	AVG	
11		3.5180	26.00	0.27	26.27	56.00	-29.73	QP	
12		3.5180	16.70	0.27	16.97	46.00	-29.03	AVG	

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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*log (1/Duty Cycle
802.11a	81.92	0.87
802.11n_20	80.54	0.94
802.11n_40	67.78	1.69
802.11ac_80	50.55	2.96

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8192) = 0.87$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8054) = 0.94$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.6778) = 1.69$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.5055) = 2.96$$

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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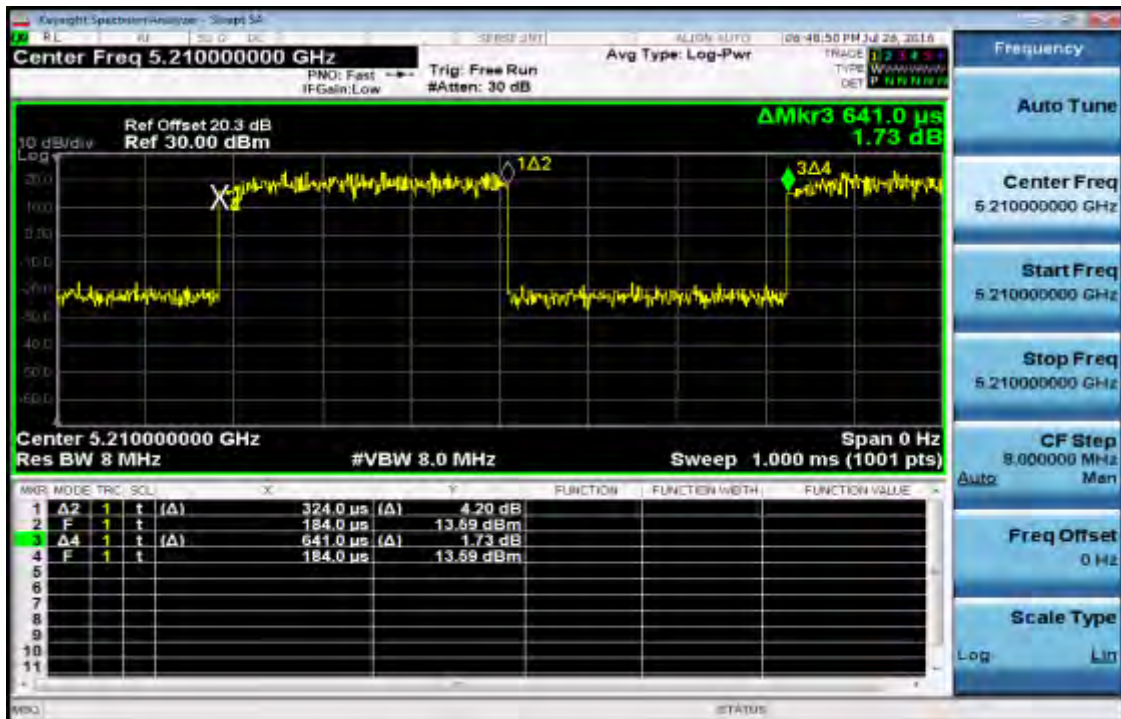
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802.11n HT 40



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.
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.

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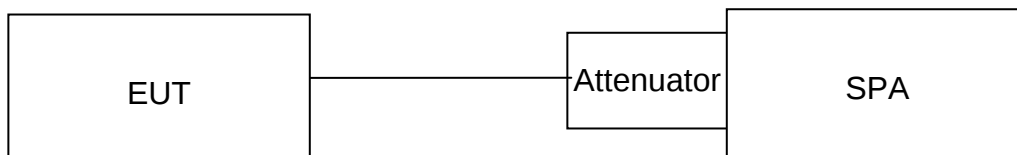
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

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	18.53	12.679
5220	18.49	12.669
5240	18.82	12.746

802.11a_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.83	12.749
5220	18.66	12.708
5240	18.62	12.699

802.11a_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.82	12.746
5220	18.67	12.712
5240	18.87	12.758

802.11a_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.83	12.749
5220	18.94	12.774
5240	19.30	12.856

CDD Mode:

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.19	12.831
5220	19.41	12.880
5240	19.28	12.851

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.02	12.792
5220	19.08	12.805
5240	19.33	12.863

802.11n_HT20_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.05	12.798
5220	19.29	12.854
5240	19.24	12.843

802.11n_HT20_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.32	12.860
5220	19.32	12.860
5240	19.34	12.865

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802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.45	15.849
5230	38.68	15.875

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.13	15.813
5230	38.38	15.841

802.11n_HT40_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.30	15.832
5230	37.96	15.793

802.11n_HT40_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.01	15.799
5230	38.18	15.818

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.01	19.031

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	78.79	18.965

802.11ac_VHT80_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	79.80	19.020

802.11ac_VHT80_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	79.68	19.013

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Beam Forming Mode:

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.71	12.947
5220	19.30	12.856
5240	19.27	12.849

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.65	12.934
5220	19.06	12.801
5240	19.06	12.801

802.11n_HT20_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.75	12.956
5220	19.03	12.794
5240	19.10	12.810

802.11n_HT20_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.93	12.995
5220	18.87	12.758
5240	19.44	12.887

802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.86	16.005
5230	39.87	16.007

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.93	16.013
5230	39.79	15.997

802.11n_HT40_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.30	15.944
5230	39.37	15.952

802.11n_HT40_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.53	15.969
5230	39.61	15.978

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802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.63	18.900

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.81	18.910

802.11ac_VHT80_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.65	18.901

802.11ac_VHT80_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.81	18.910

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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	15.49	11.899
5785	16.03	12.049
5825	15.16	11.806

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.09	11.788
5785	15.44	11.885
5825	14.24	11.535

802.11a_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.62	11.938
5785	15.08	11.784
5825	15.14	11.802

802.11a_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.17	11.514
5785	15.46	11.892
5825	14.39	11.581

CDD Mode:

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.09	11.787
5785	15.15	11.804
5825	13.90	11.430

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.93	12.286
5785	15.71	11.960
5825	14.49	11.611

802.11n_HT20_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.10	11.789
5785	15.71	11.961
5825	15.14	11.800

802.11n_HT20_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.07	11.781
5785	14.79	11.700
5825	17.29	12.378

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802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	31.42	14.972
5795	35.07	15.449

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.81	15.290
5795	35.05	15.447

802.11n_HT40_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.07	15.450
5795	35.04	15.446

802.11n_HT40_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	34.03	15.319
5795	33.88	15.299

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	71.38	18.536

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	71.36	18.535

802.11ac_VHT80_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.55	18.606

802.11ac_VHT80_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.91	18.687

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Beam Forming Mode:

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.56	11.632
5785	15.10	11.789
5825	15.14	11.801

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.07	12.059
5785	15.73	11.966
5825	15.74	11.970

802.11n_HT20_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.74	11.970
5785	16.30	12.122
5825	15.75	11.974

802.11n_HT20_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.43	11.593
5785	15.68	11.953
5825	15.70	11.959

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.10	15.453
5795	35.11	15.454

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.12	15.456
5795	35.14	15.458

802.11n_HT40_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.15	15.459
5795	33.80	15.289

802.11n_HT40_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.89	15.301
5795	35.14	15.458

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802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.86	18.684

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.09	18.756

802.11ac_VHT80_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.06	18.754

802.11ac_VHT80_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.58	18.608

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99% Bandwidth

(5150~5250 MHz)

802.11a

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.1	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.13	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.1	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.13	< 5250

802.11n HT20

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.82	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.79	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.79	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.82	< 5250

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802.11n HT40

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.90	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.00	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.90	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.95	< 5250

802.11ac VHT80

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.40	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.40	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.40	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.50	< 5250

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5725~5850MHz

802.11a

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.75	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.75	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.75	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.75	> 5725

802.11n HT20

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.18	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.15	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.15	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.15	> 5725

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802.11n HT40

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.95	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.95	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.95	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.95	> 5725

802.11ac VHT80

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5775	5737.40	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5775	5737.40	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5775	5737.30	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5775	5737.20	> 5725

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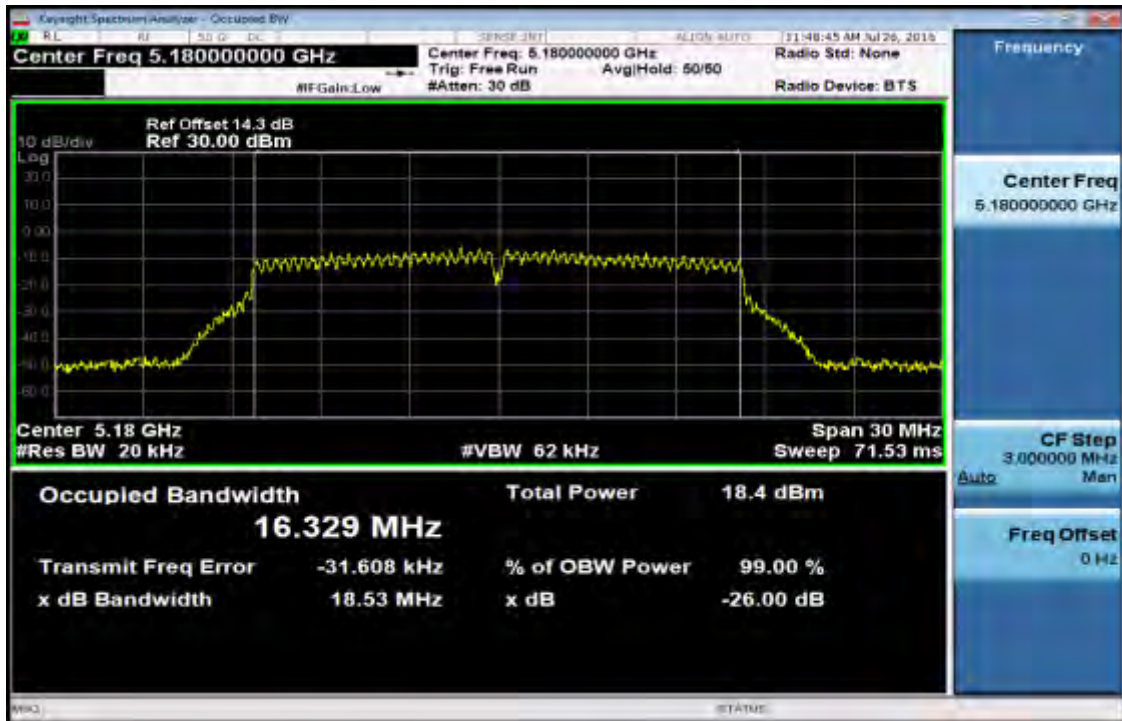
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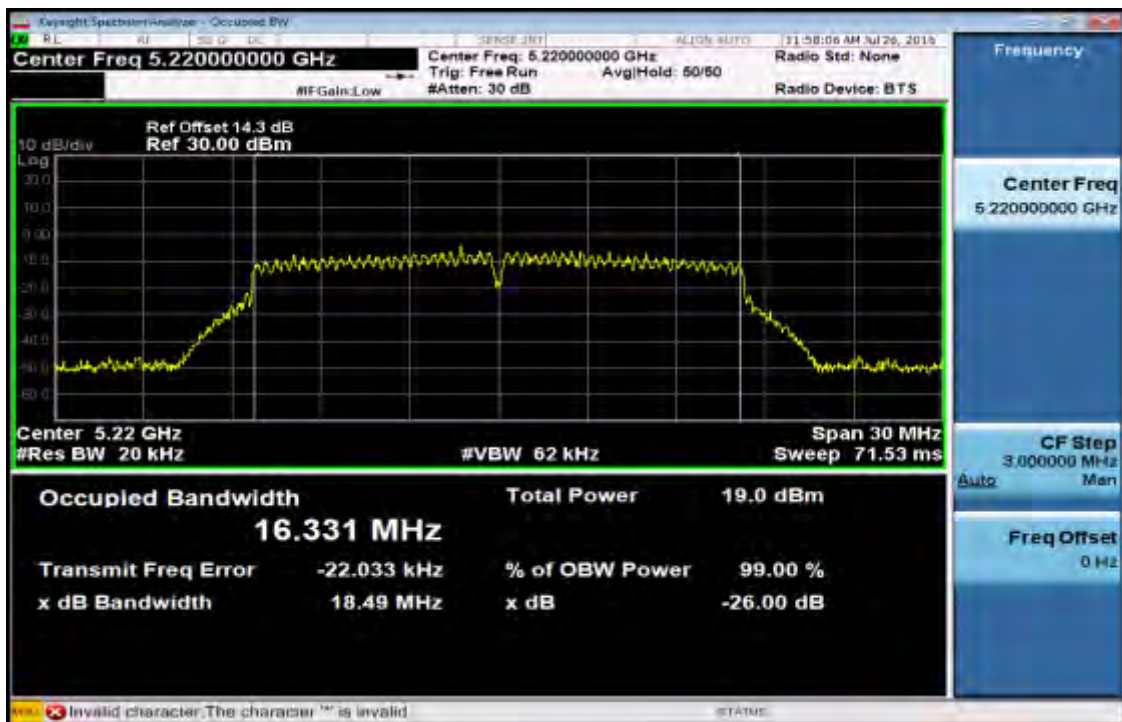
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



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



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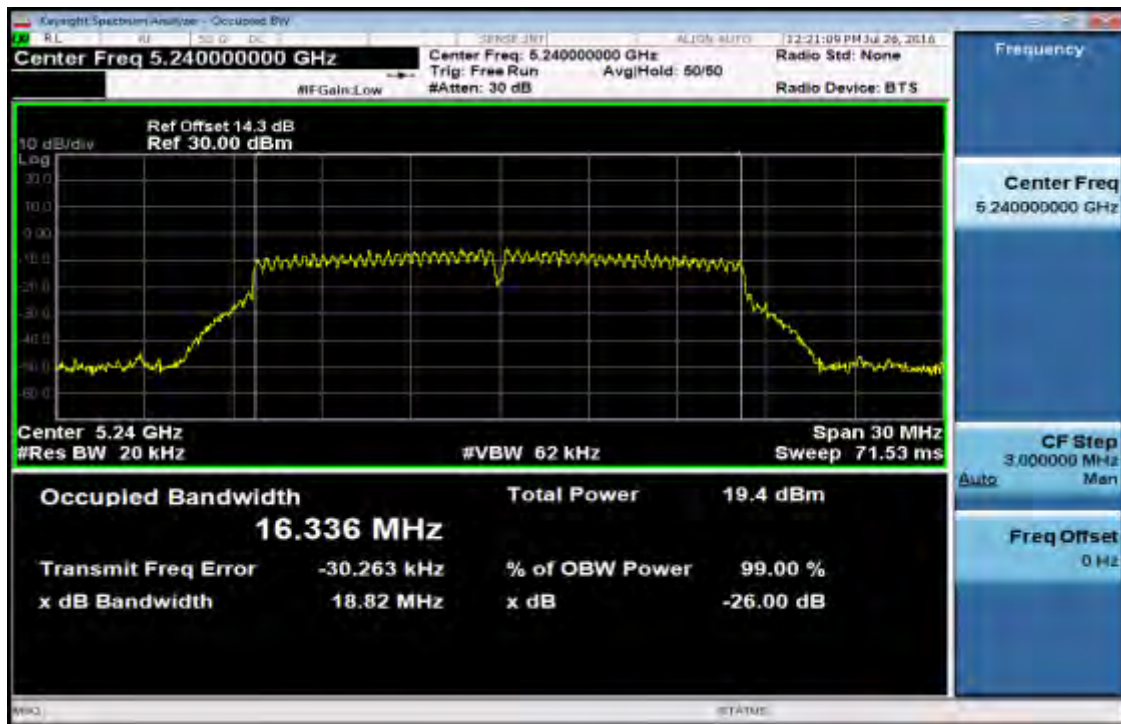
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26dB Band Width Test Data CH-High (5240MHz)



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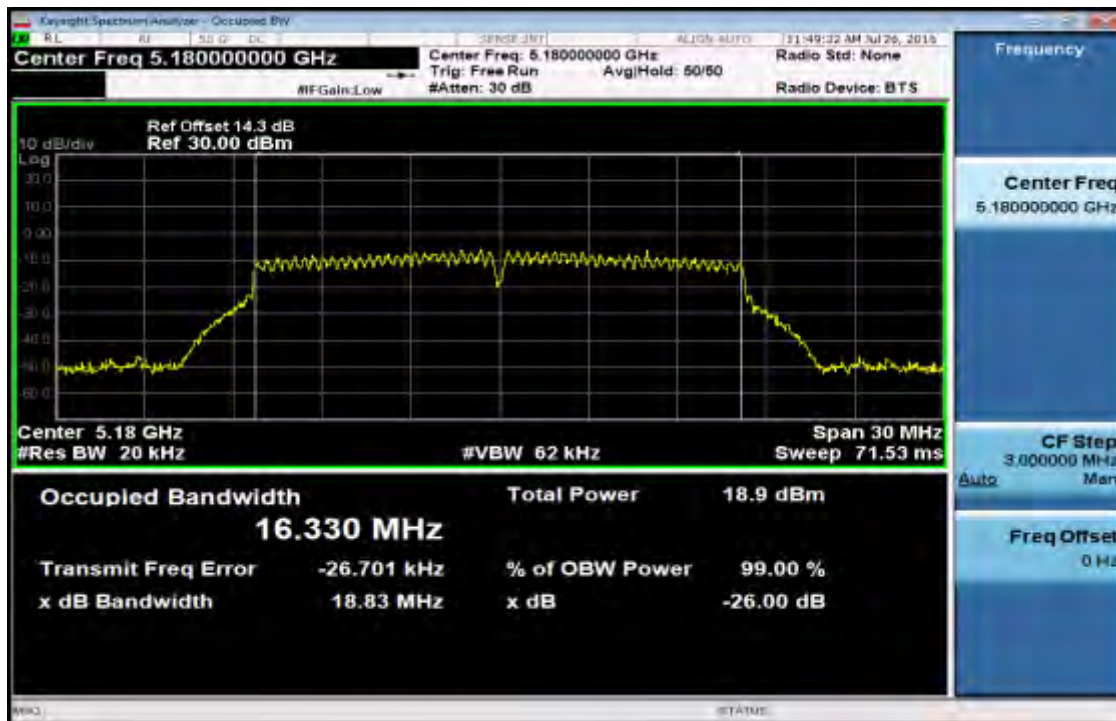
f (886-2) 2298-0488

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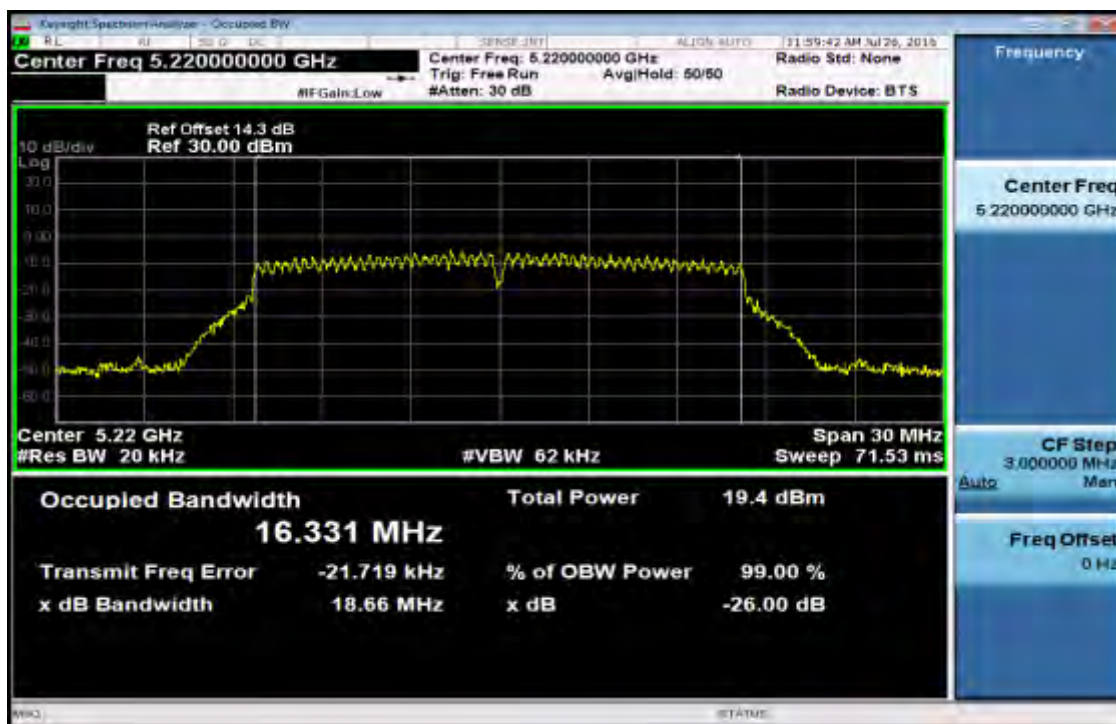
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802.11a, 5150~5250 MHz (Aux1)

26dB Band Width Test Data CH-Low (5180MHz)



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



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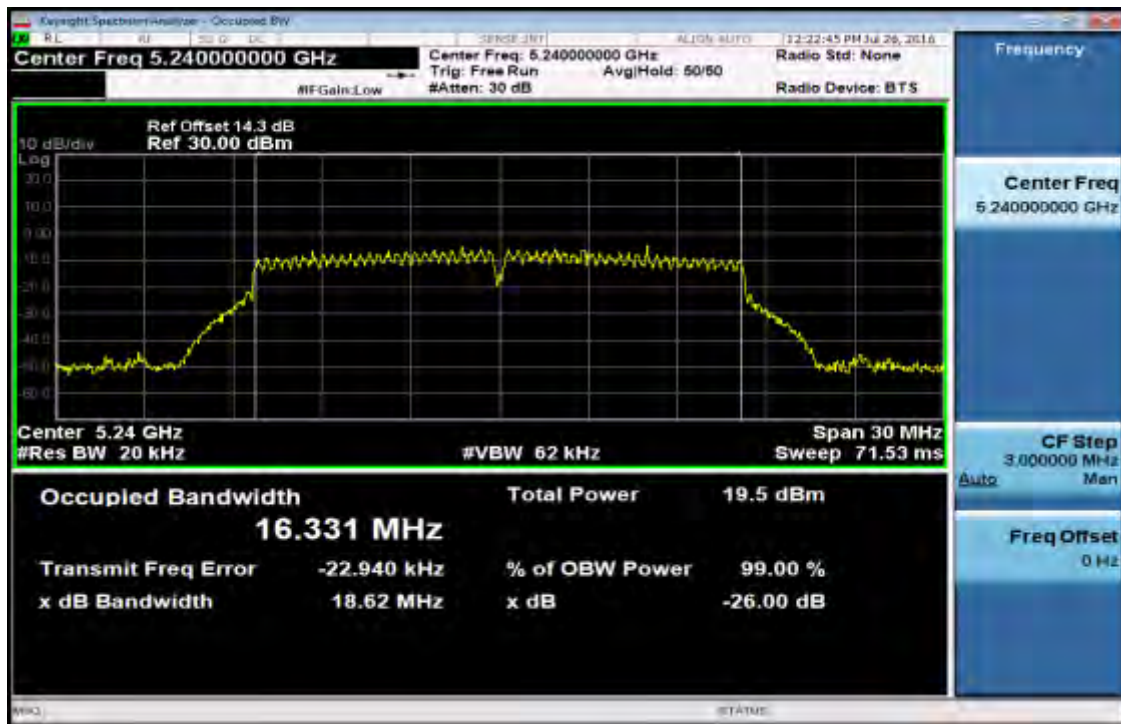
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26dB Band Width Test Data CH-High (5240MHz)



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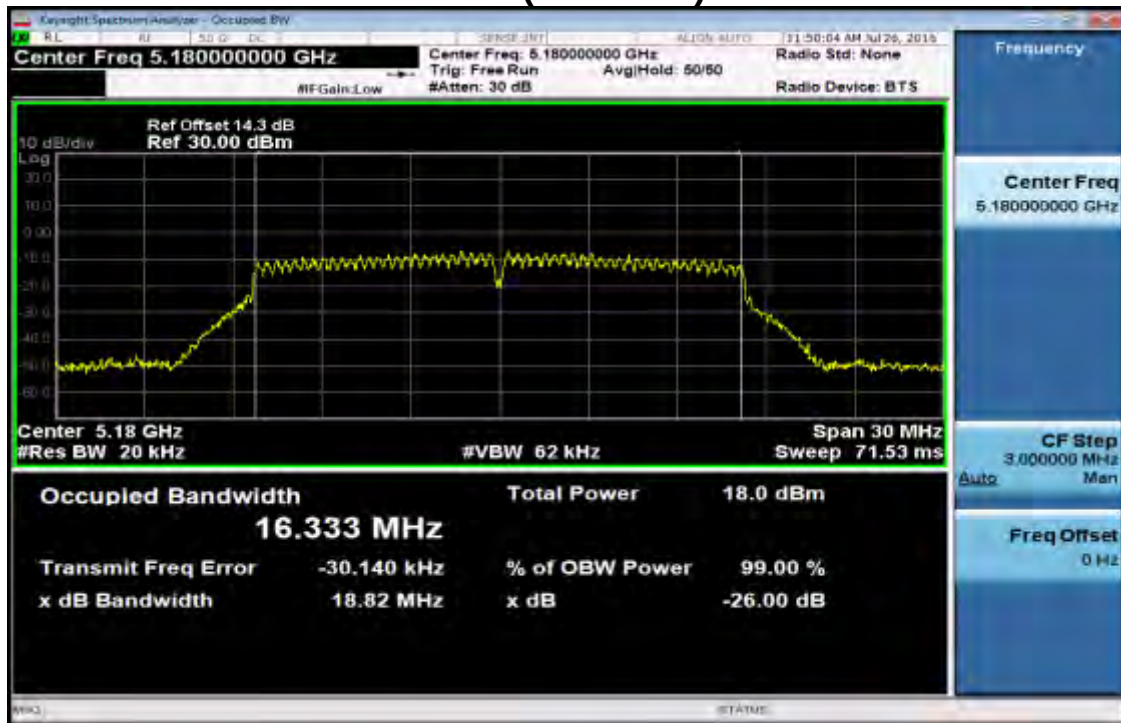
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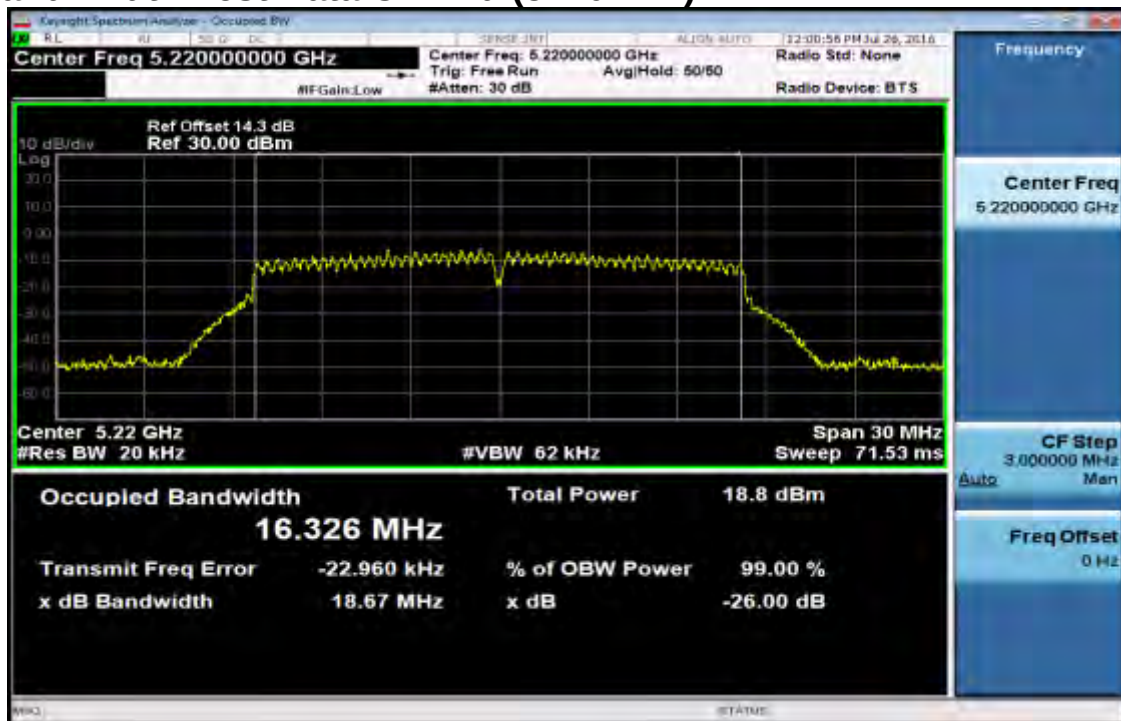
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802.11a, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Low (5180MHz)



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



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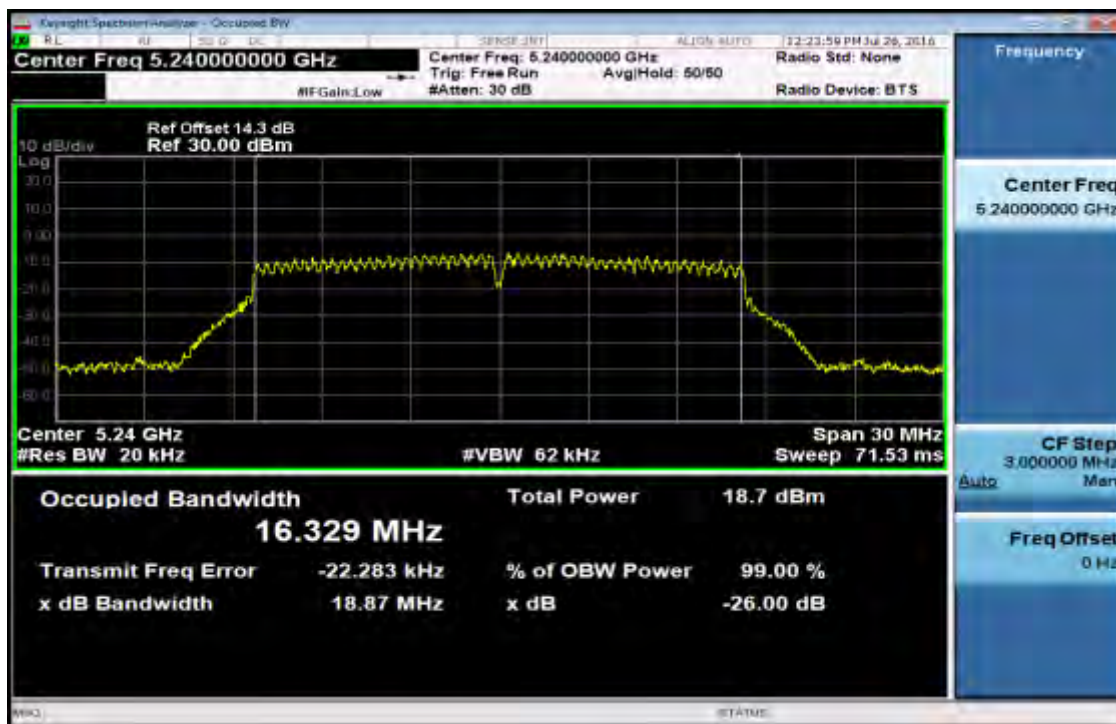
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26dB Band Width Test Data CH-High (5240MHz)



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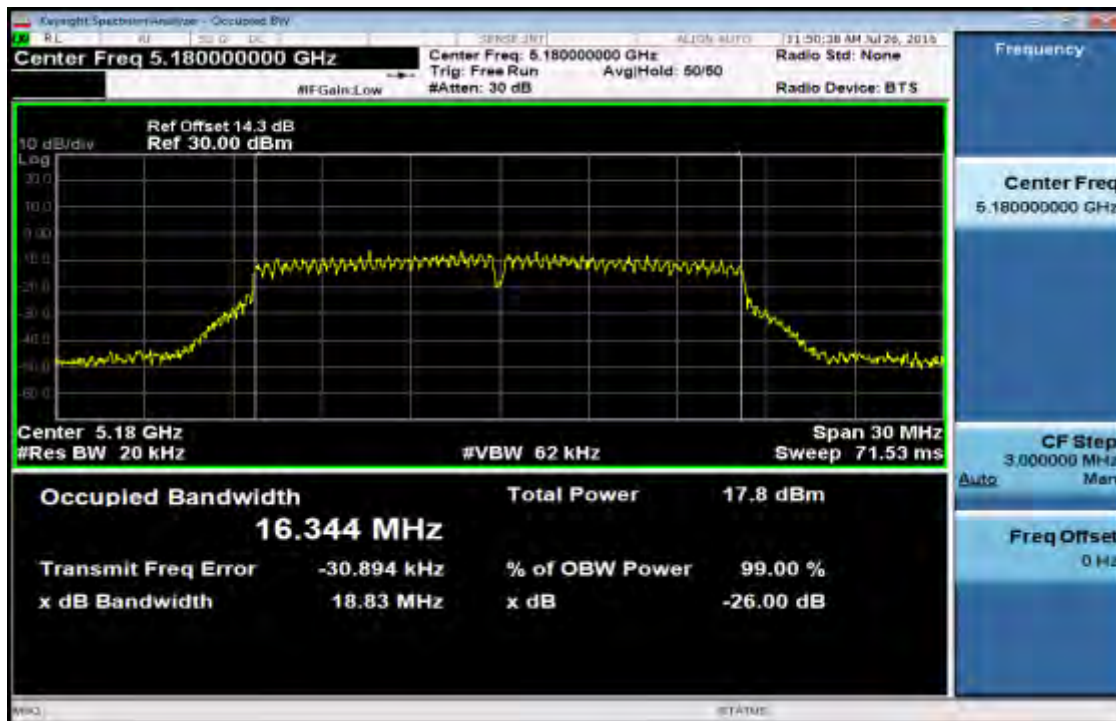
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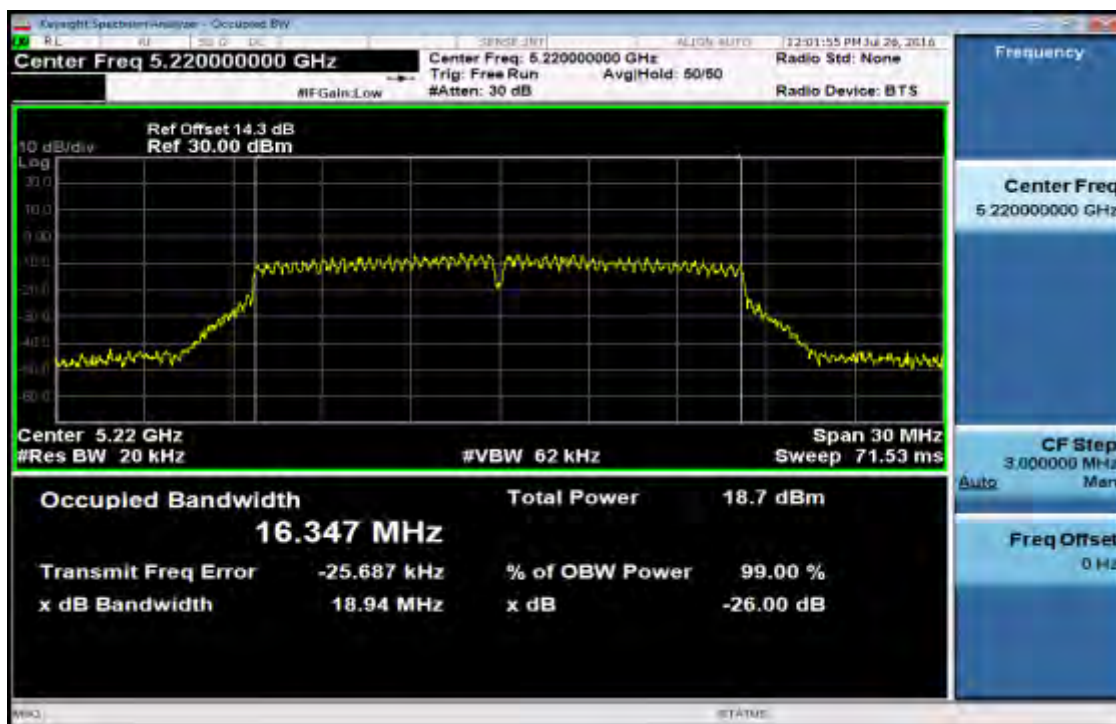
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802.11a, 5150~5250 MHz (Aux3)

26dB Band Width Test Data CH-Low (5180MHz)



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



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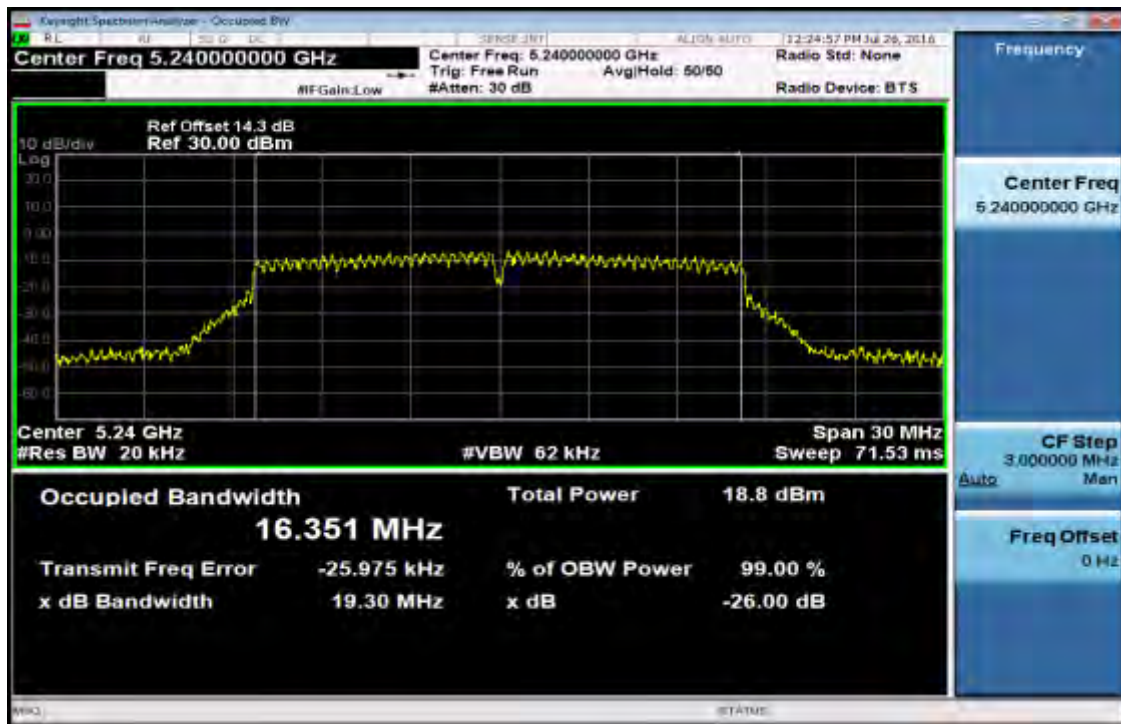
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26dB Band Width Test Data CH-High (5240MHz)



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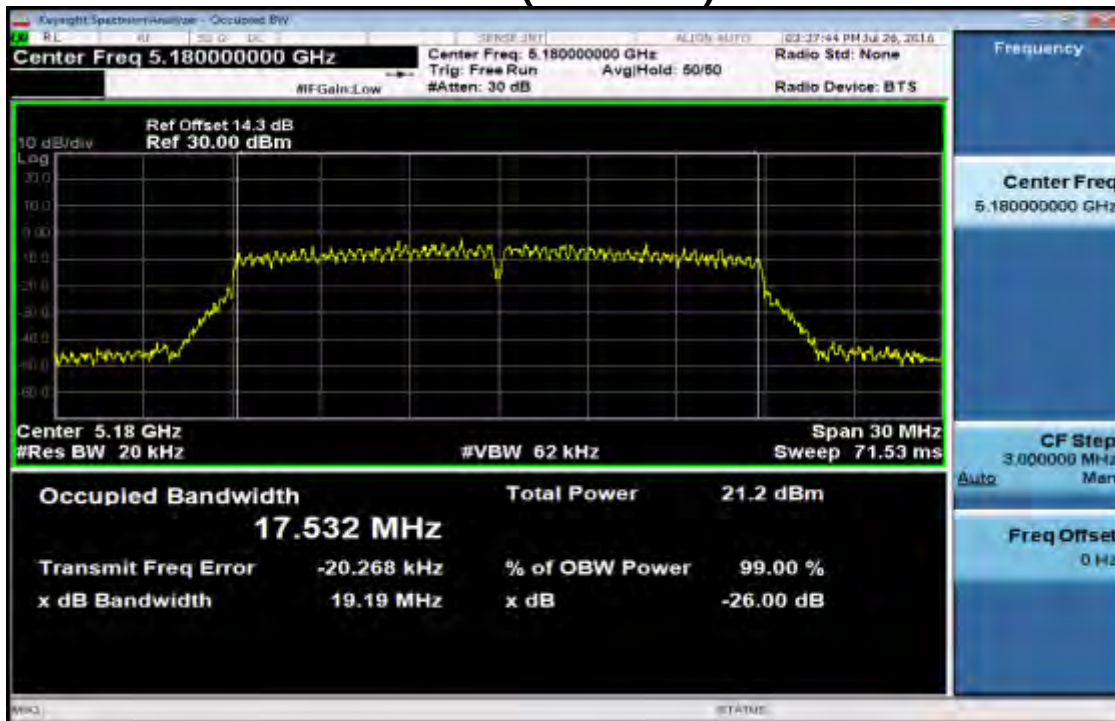
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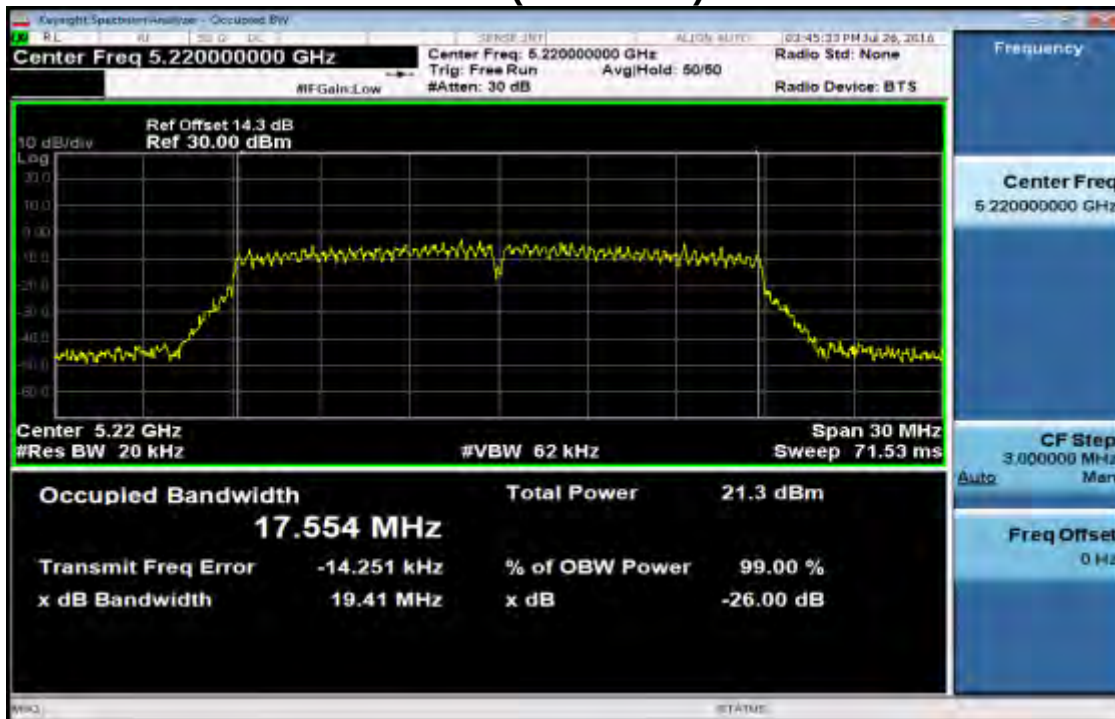
CDD Mode:

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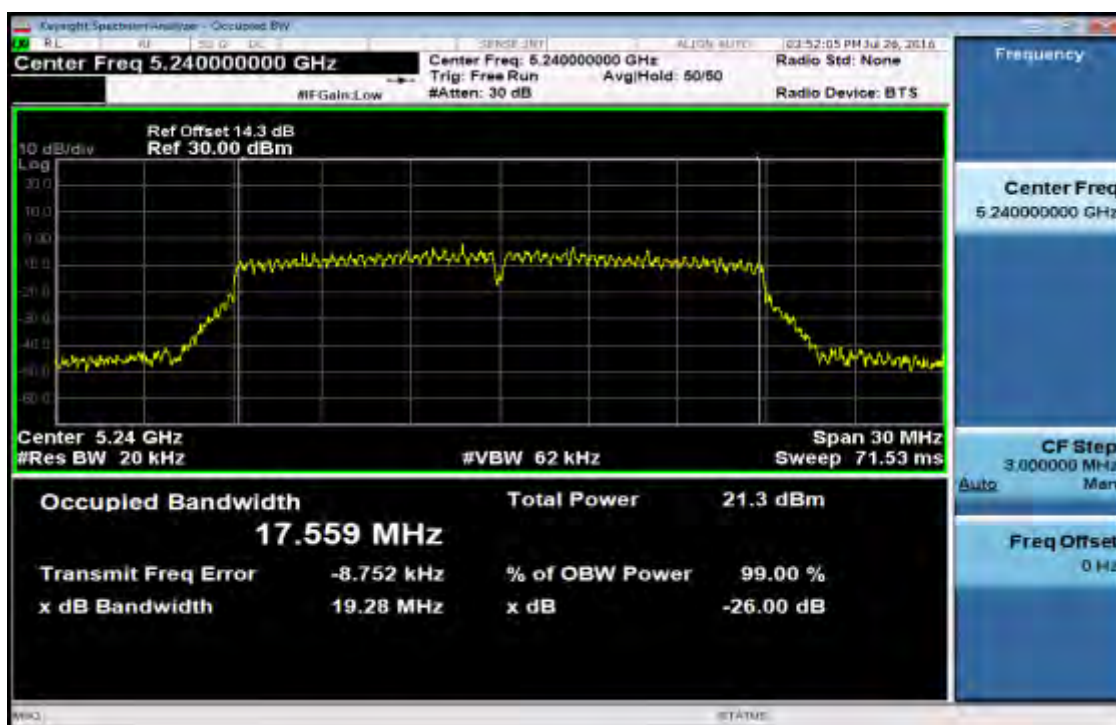
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26dB Band Width Test Data CH-High (5240 MHz)



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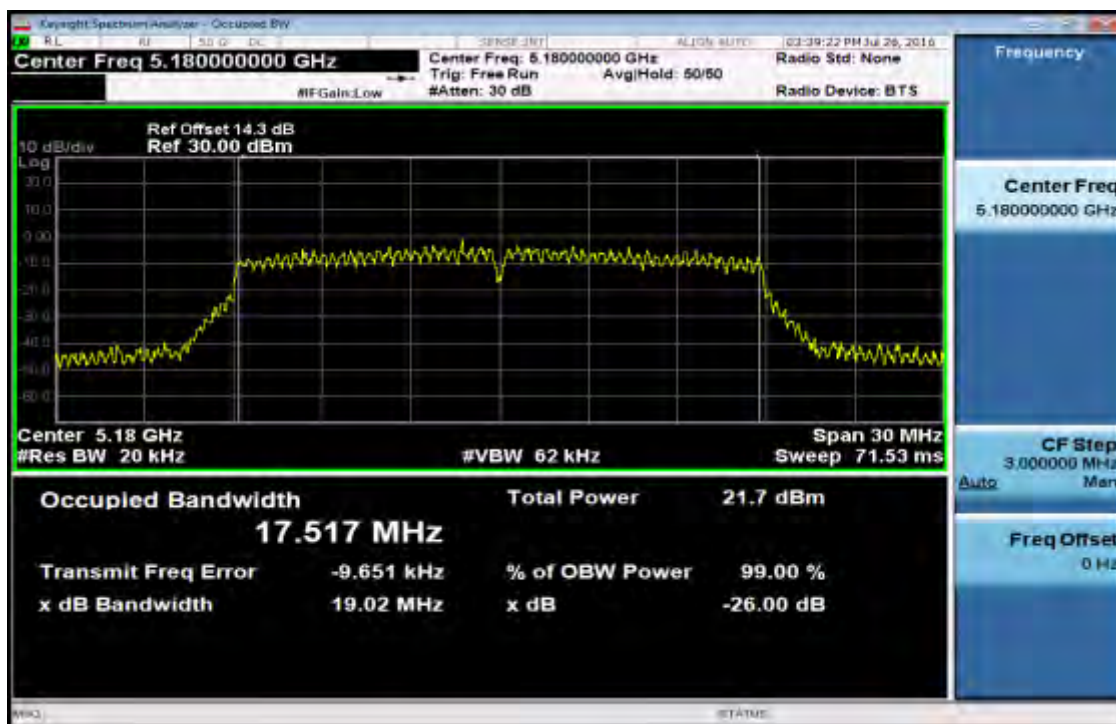
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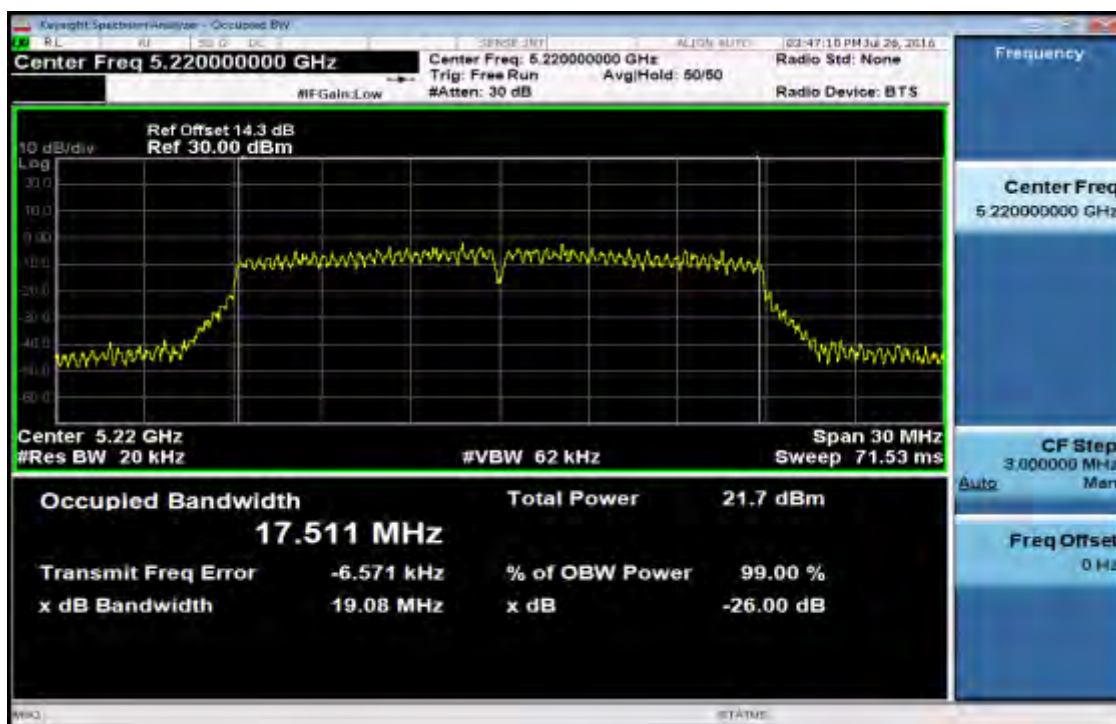
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802.11n HT20, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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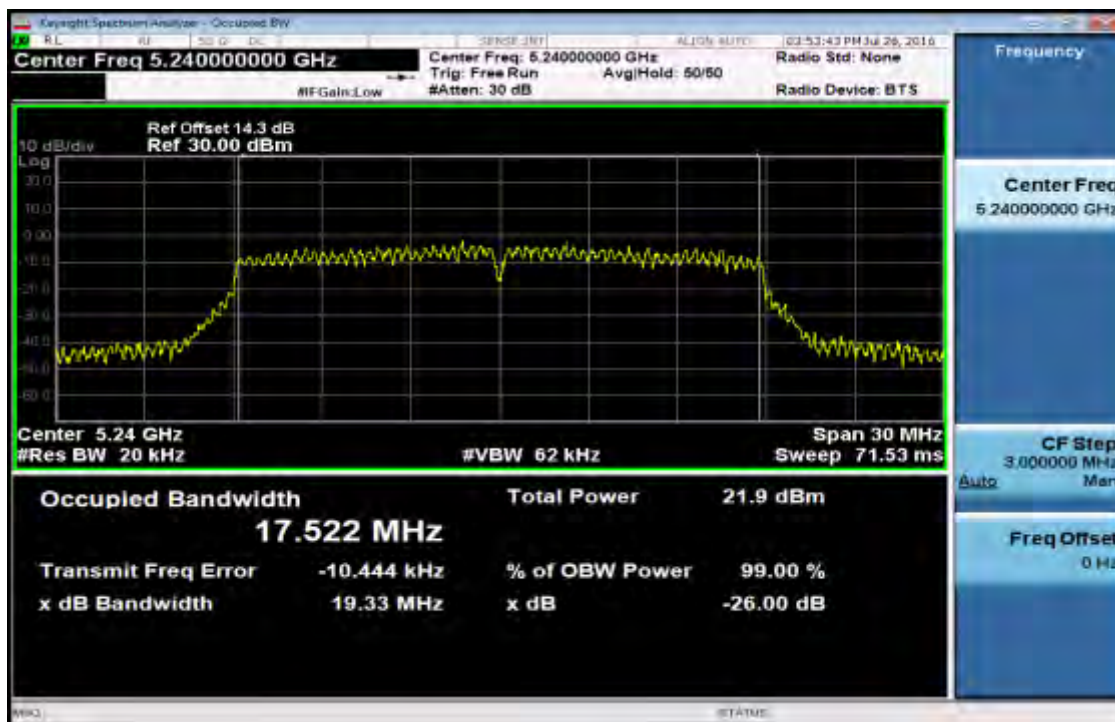
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26dB Band Width Test Data CH-High (5240 MHz)



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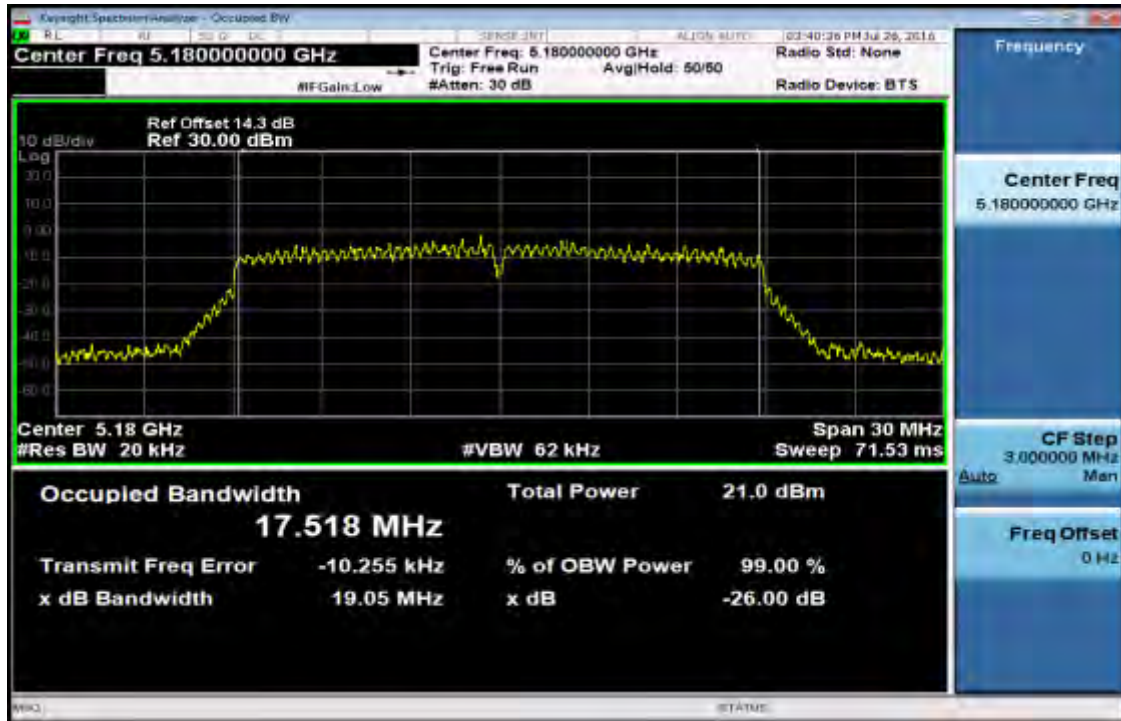
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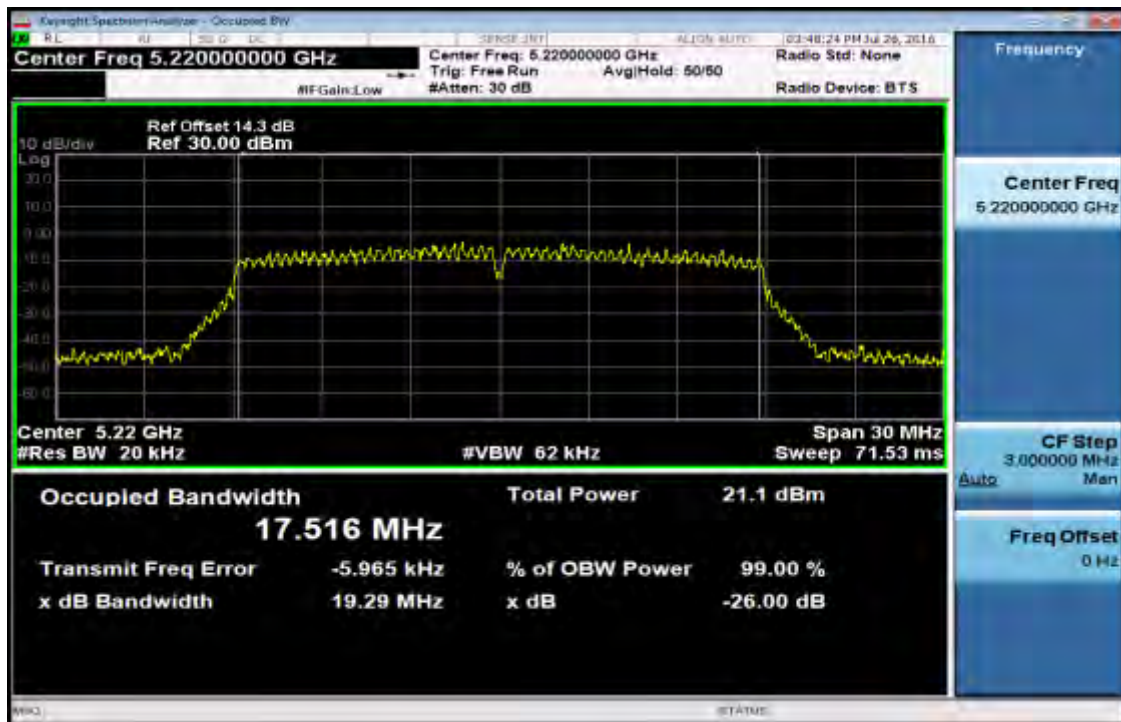
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802.11n HT20, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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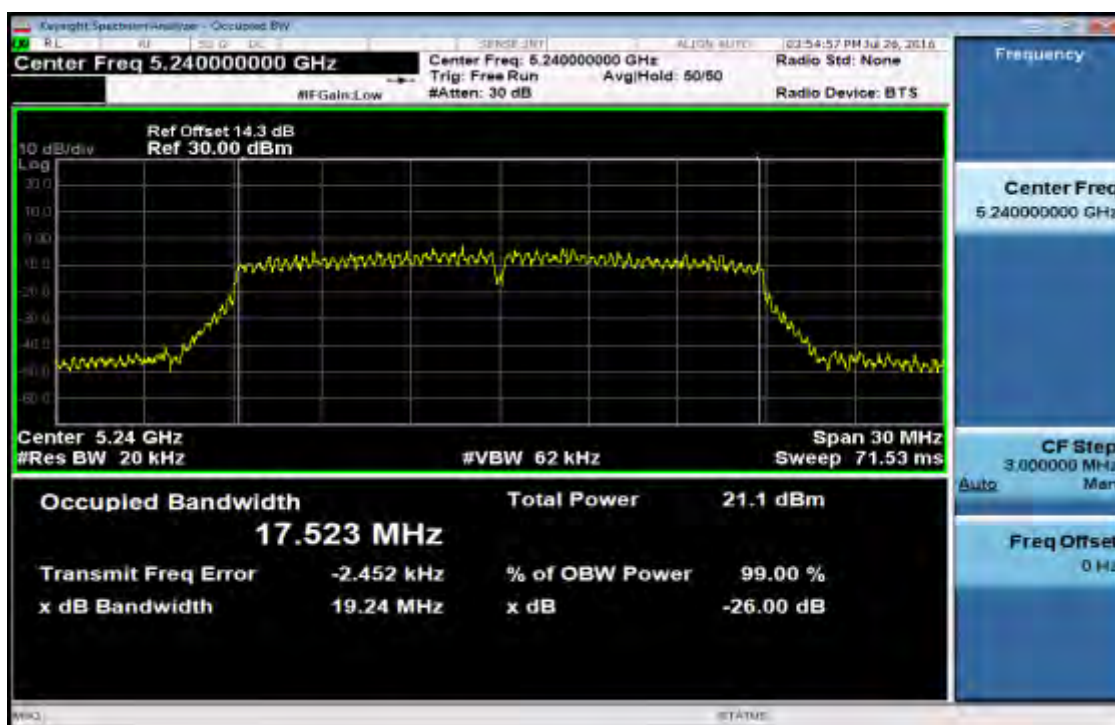
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26dB Band Width Test Data CH-High (5240 MHz)



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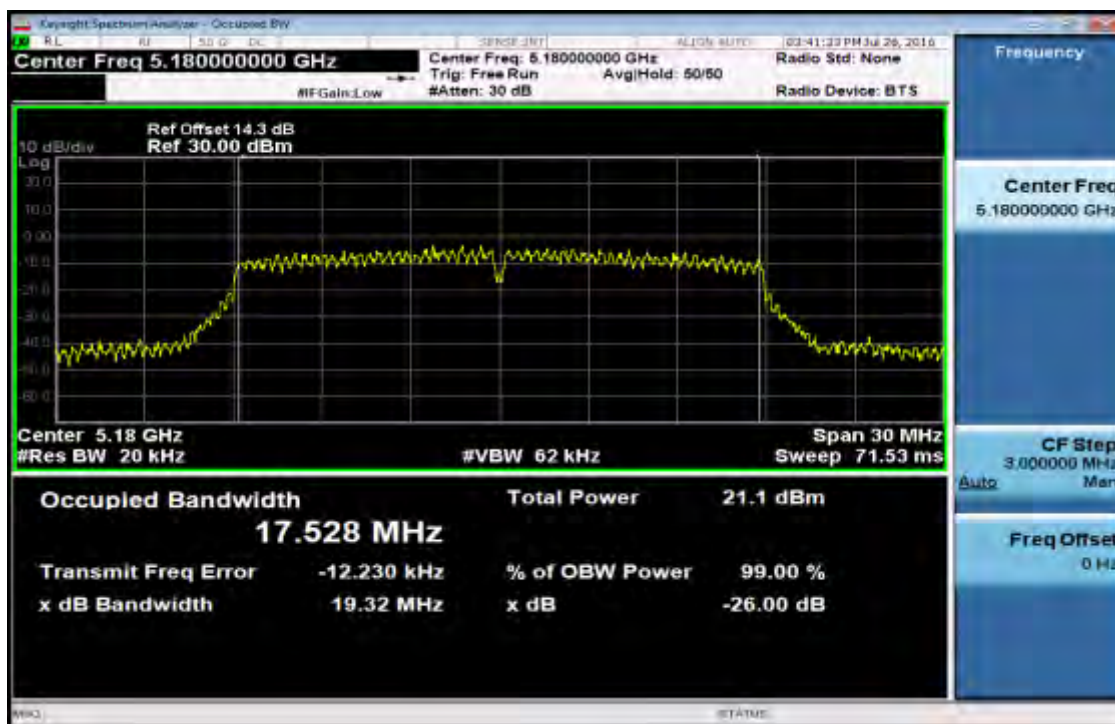
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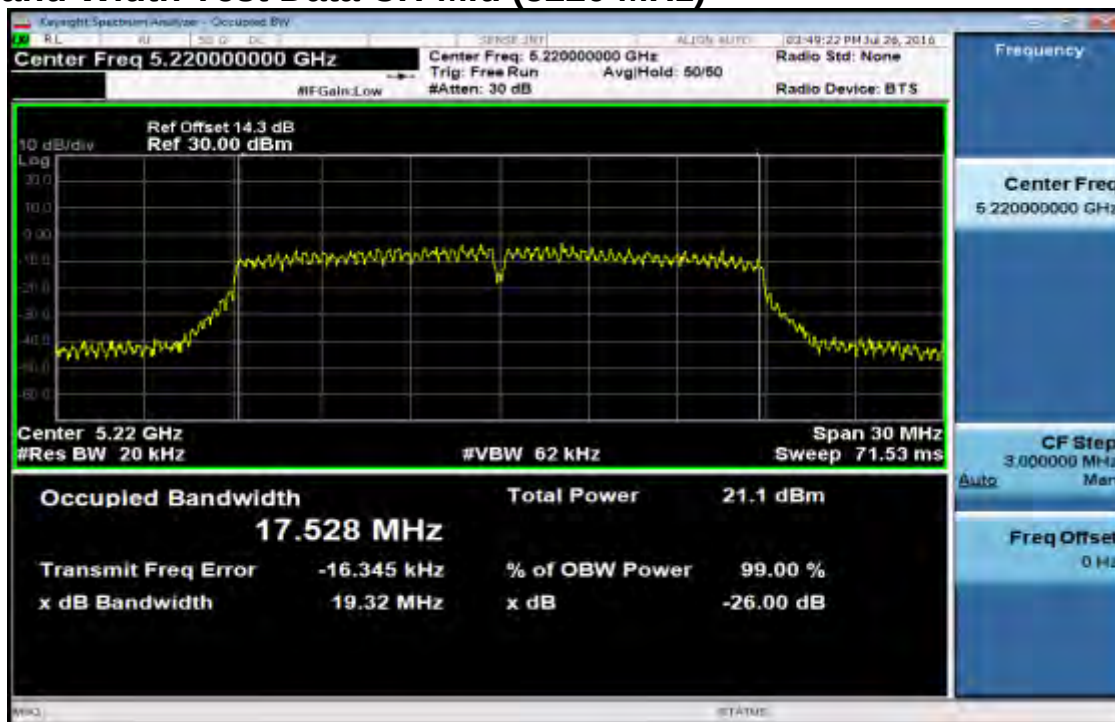
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802.11n HT20, 5150~5250 MHz (Aux3) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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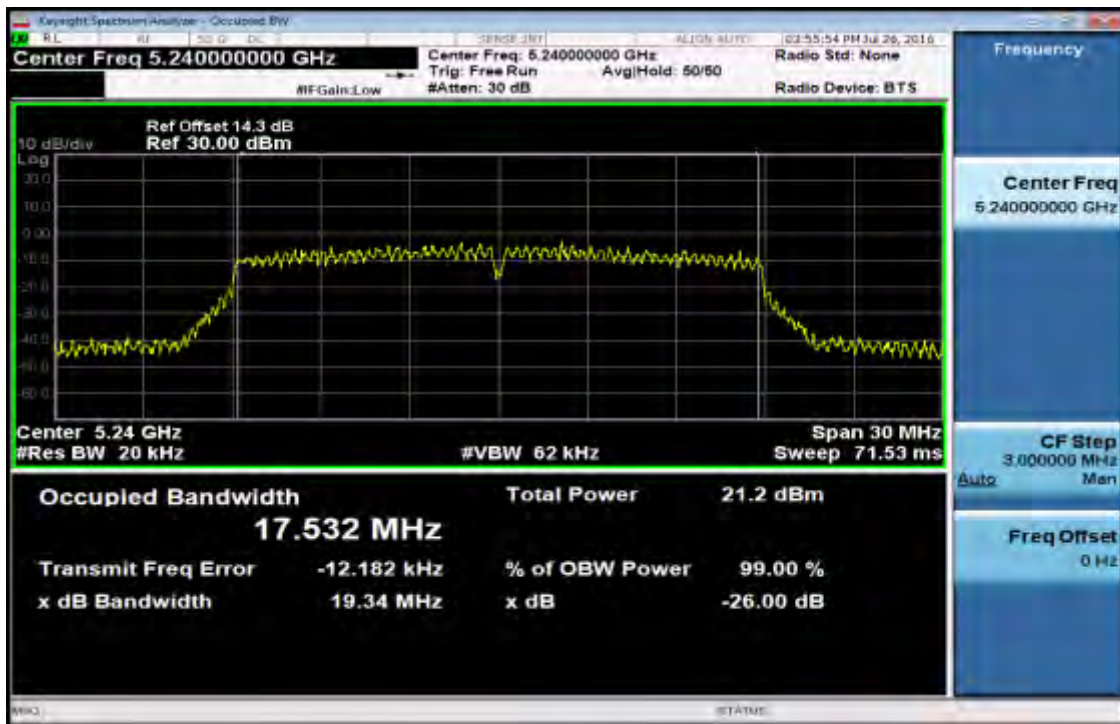
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26dB Band Width Test Data CH-High (5240 MHz)



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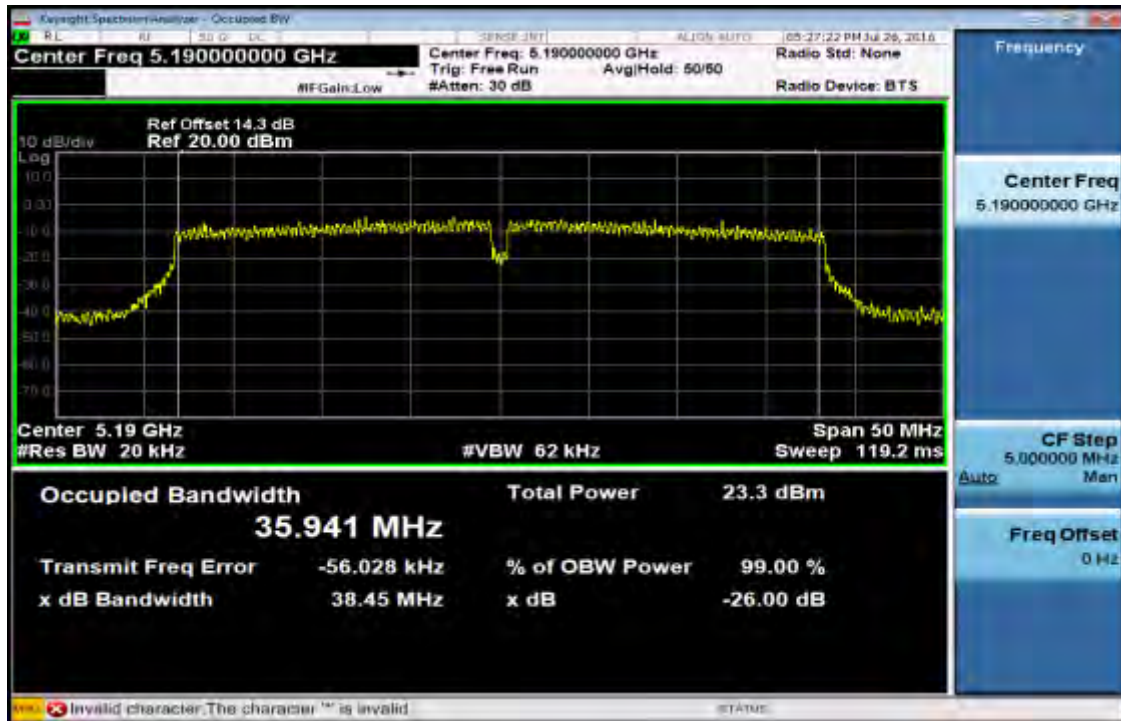
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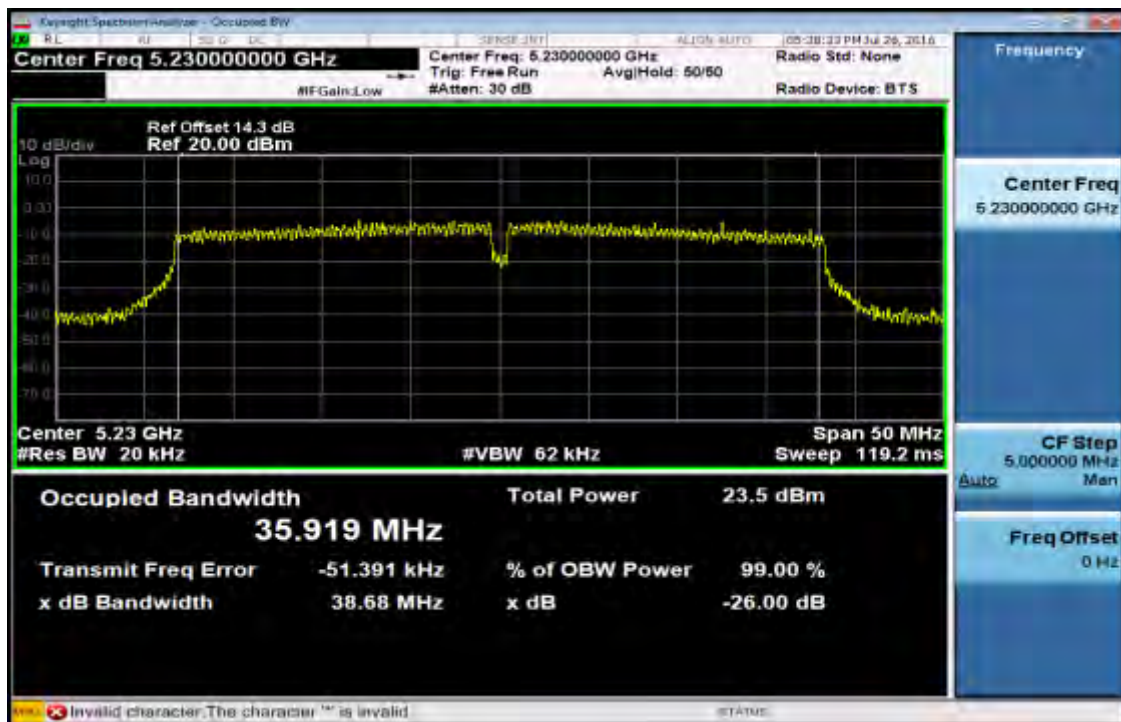
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802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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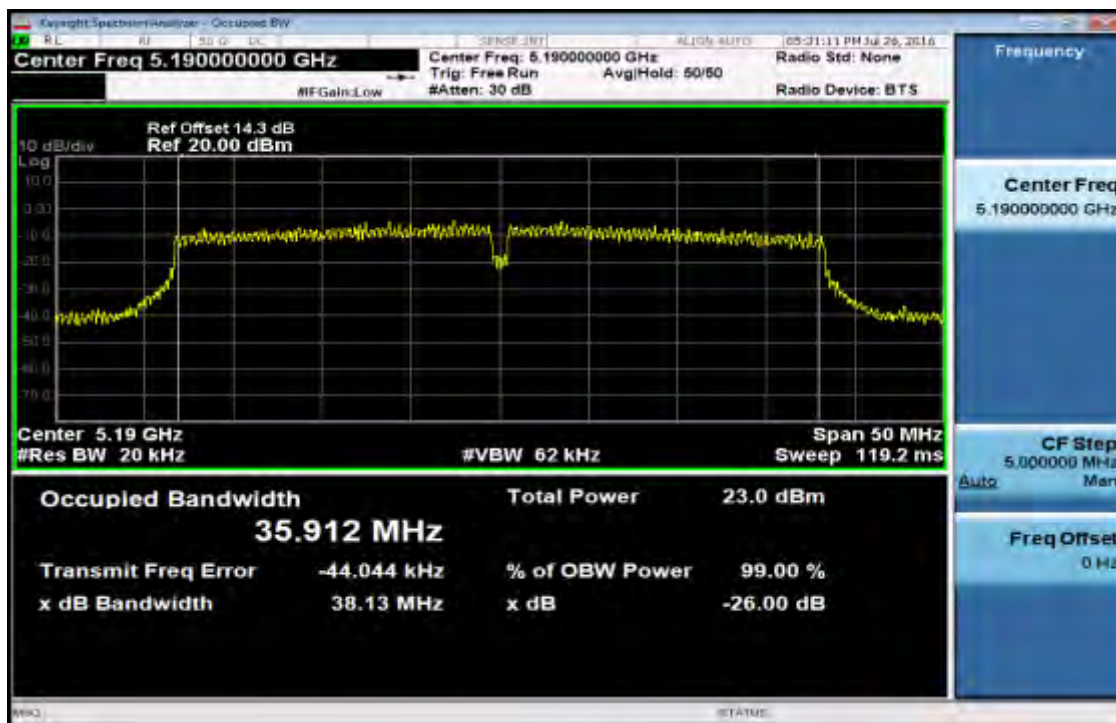
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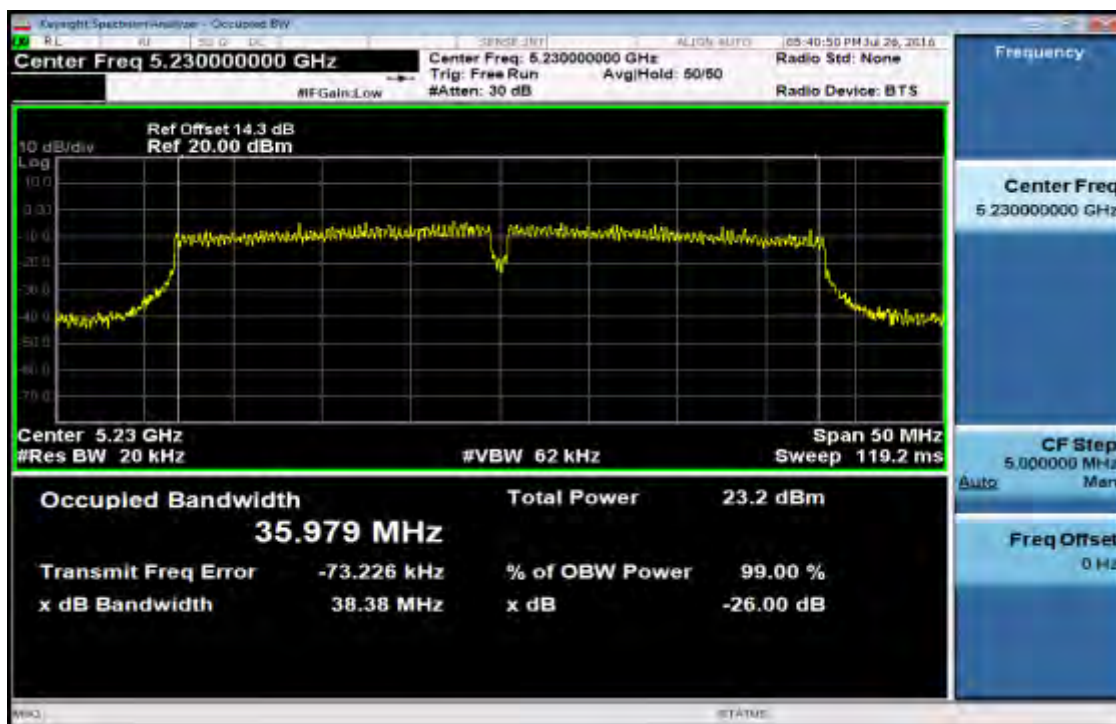
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802.11n HT40, 5150~5250 MHz (Aux1)

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



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



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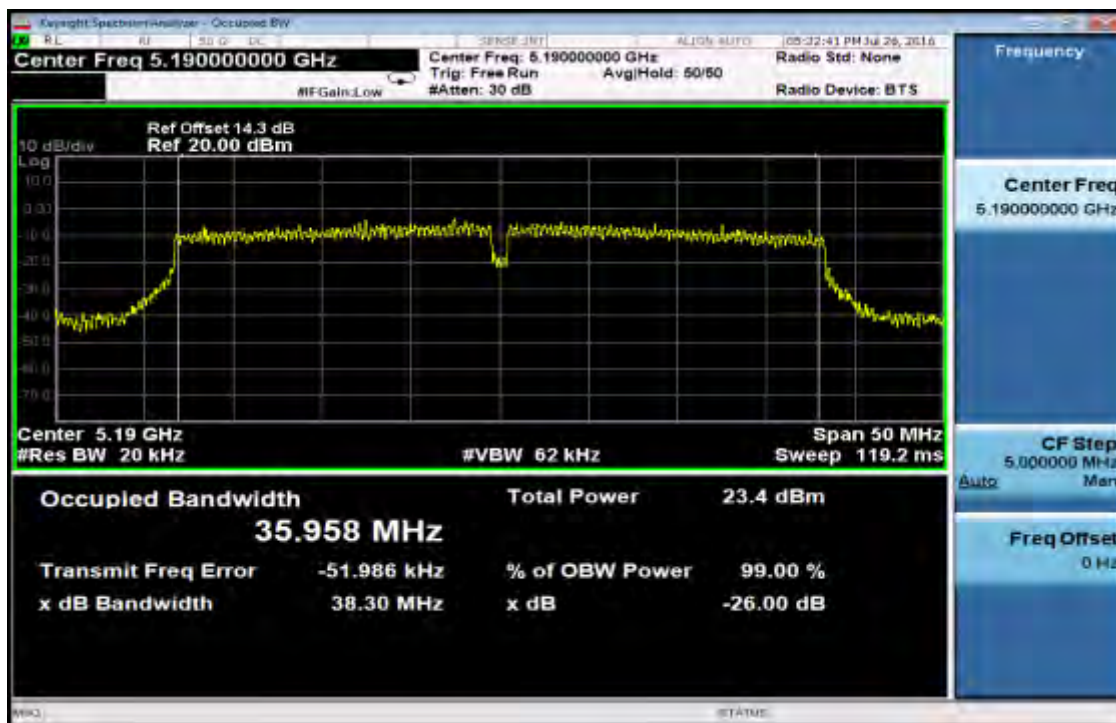
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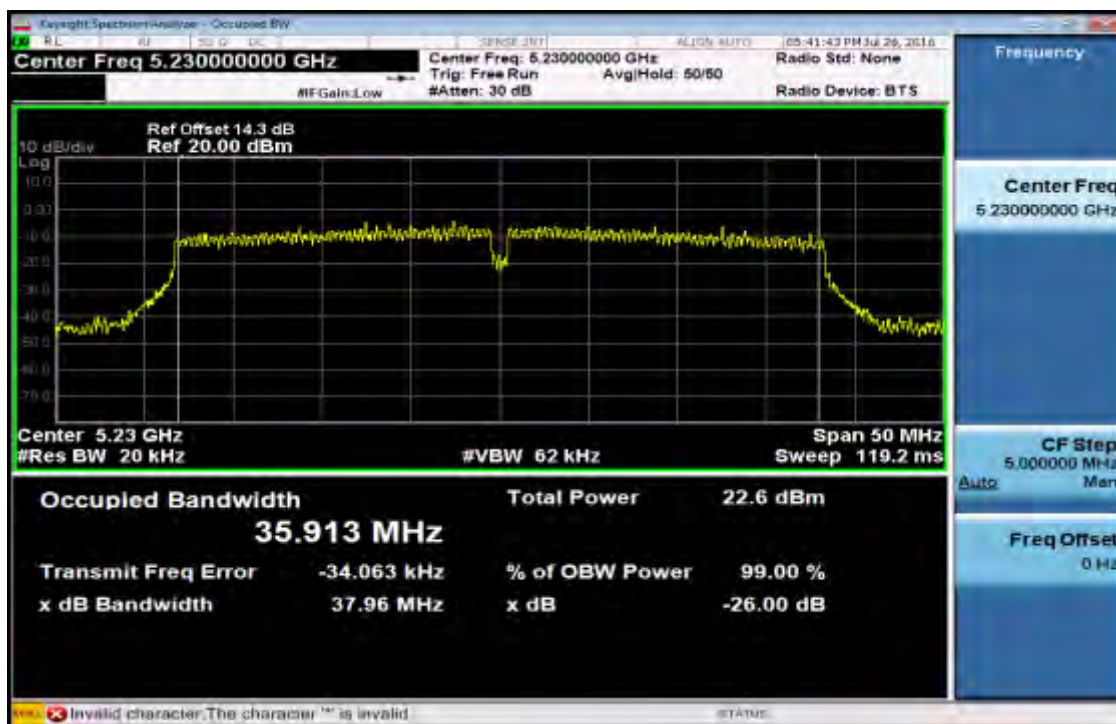
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802.11n HT40, 5150~5250 MHz (Aux2)

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



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



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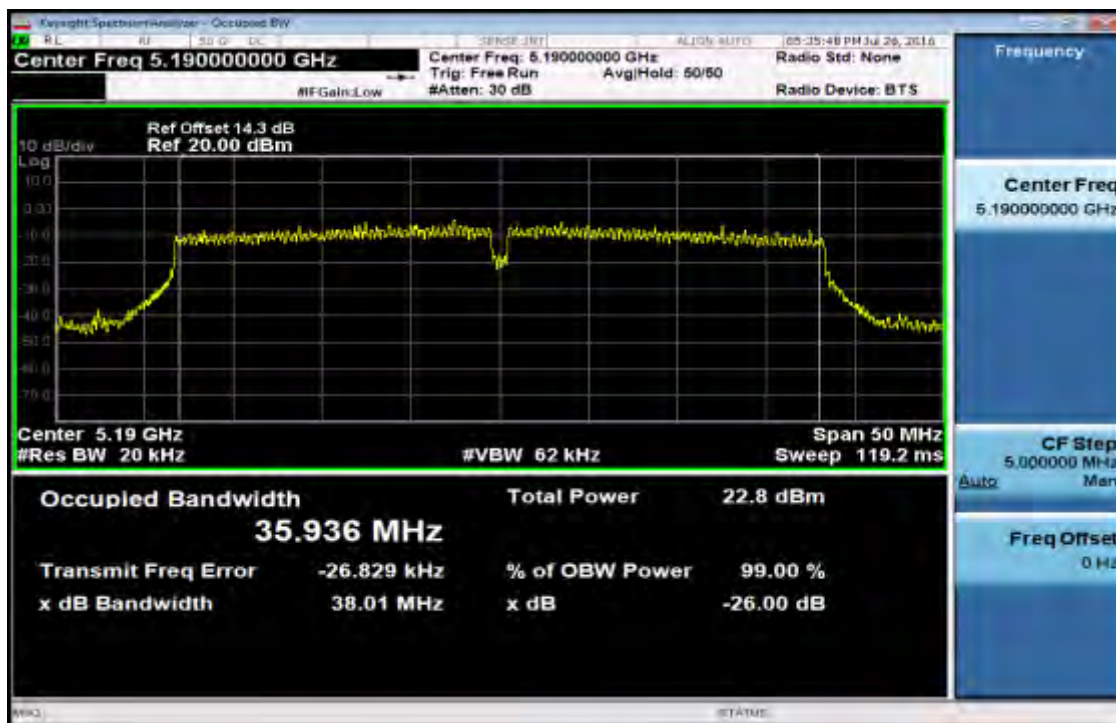
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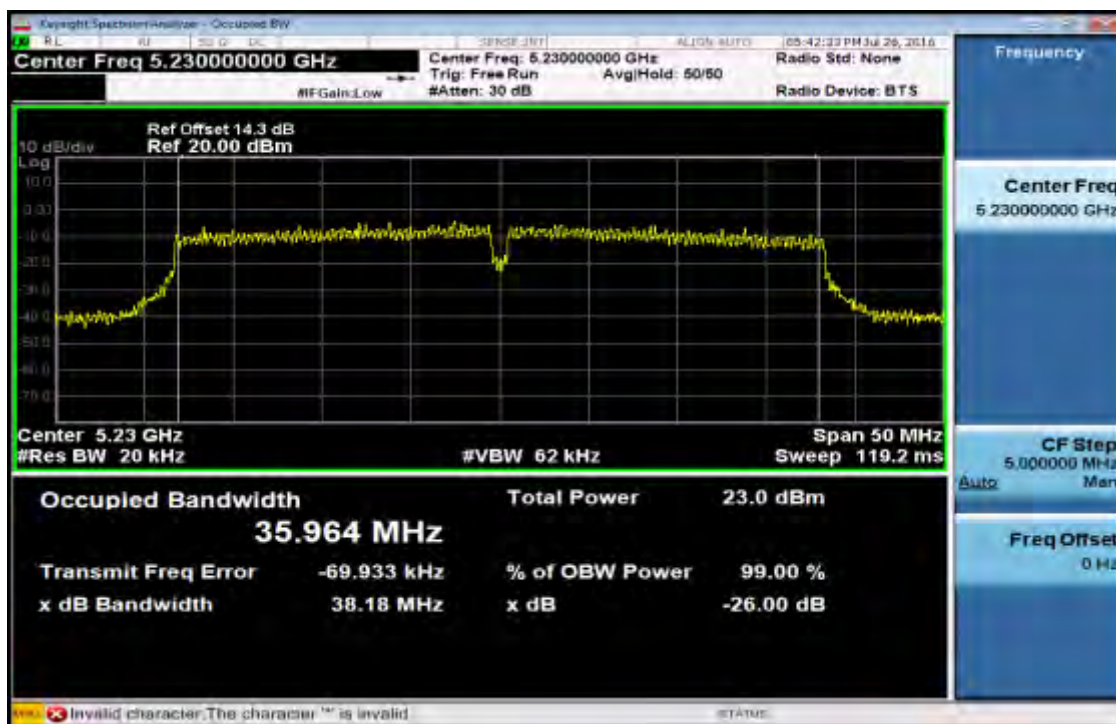
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802.11n HT40, 5150~5250 MHz (Aux3)

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



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



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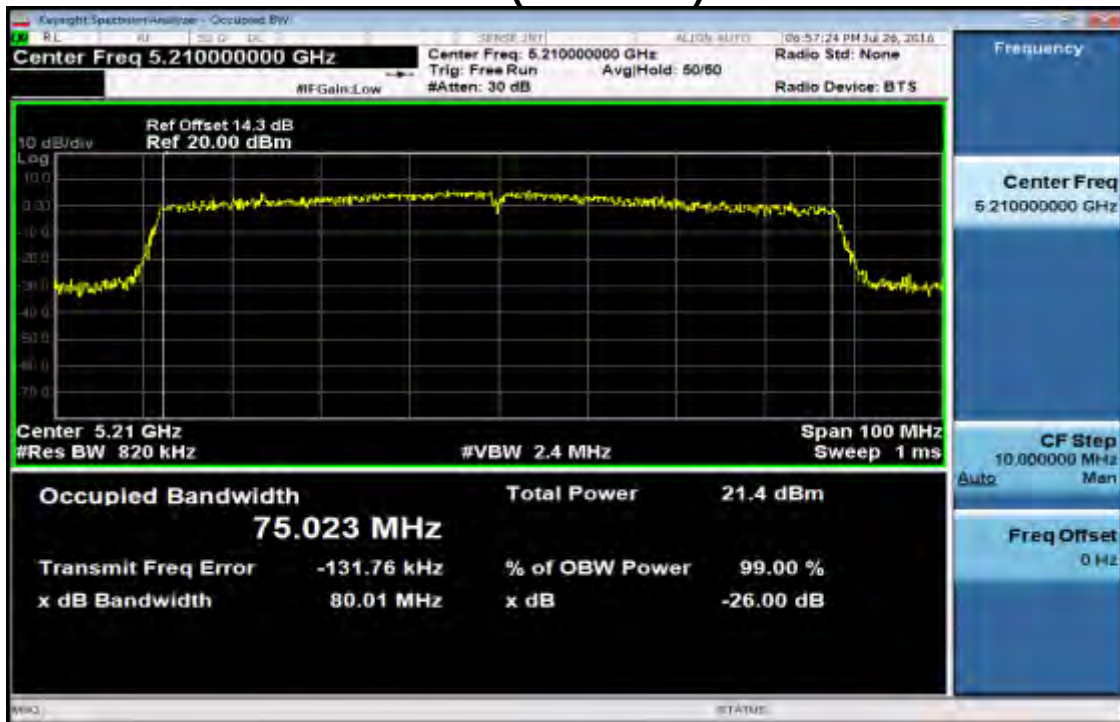
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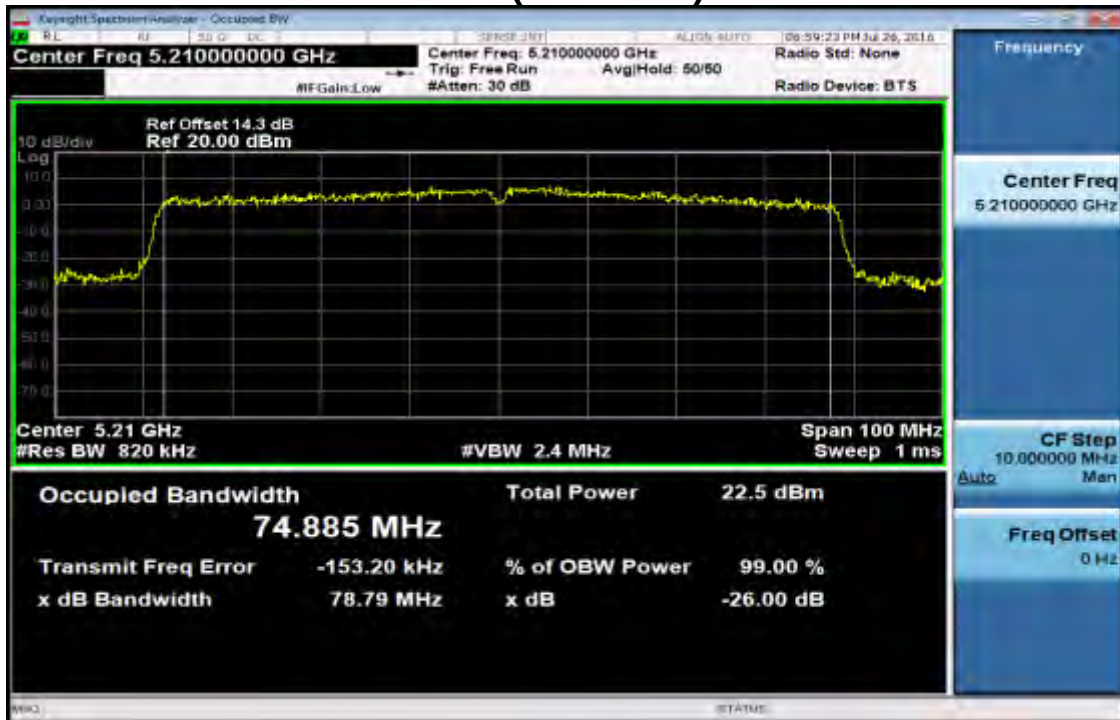
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Mid (5210 MHz)



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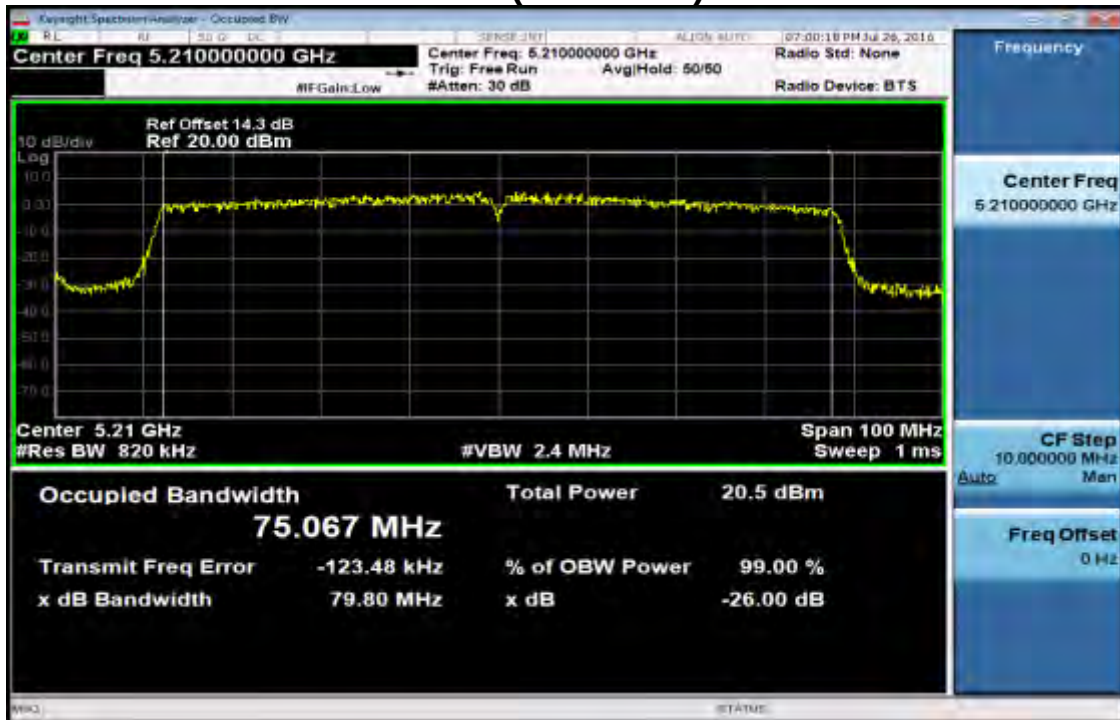
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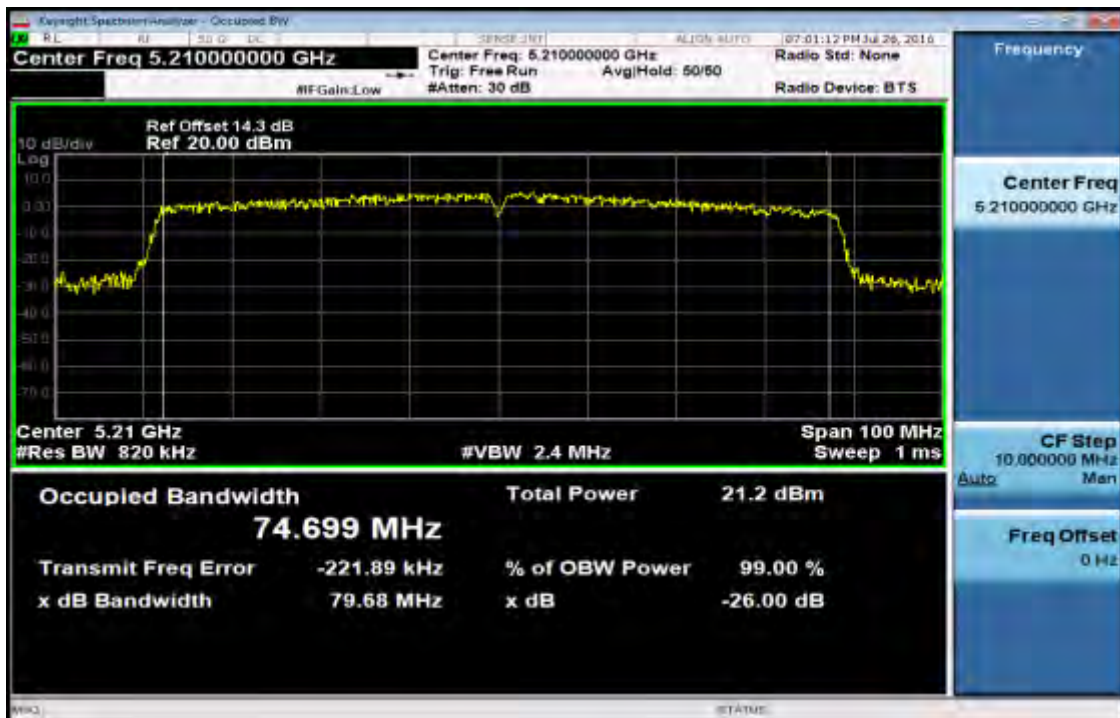
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802.11ac VHT80, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux3)



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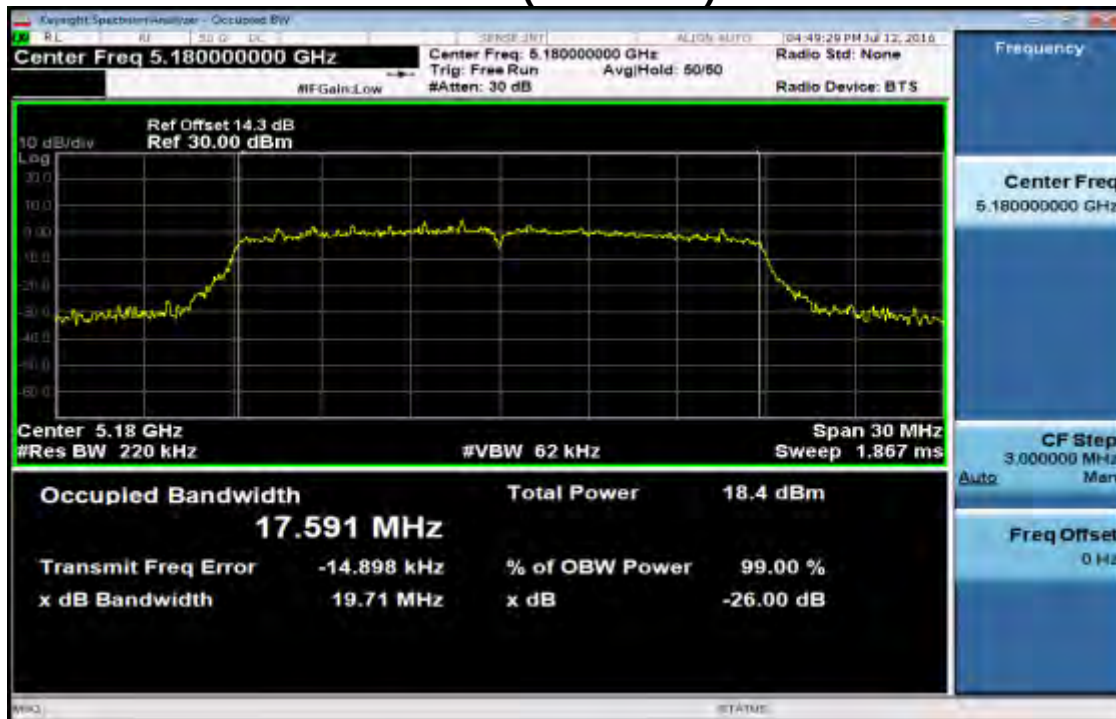
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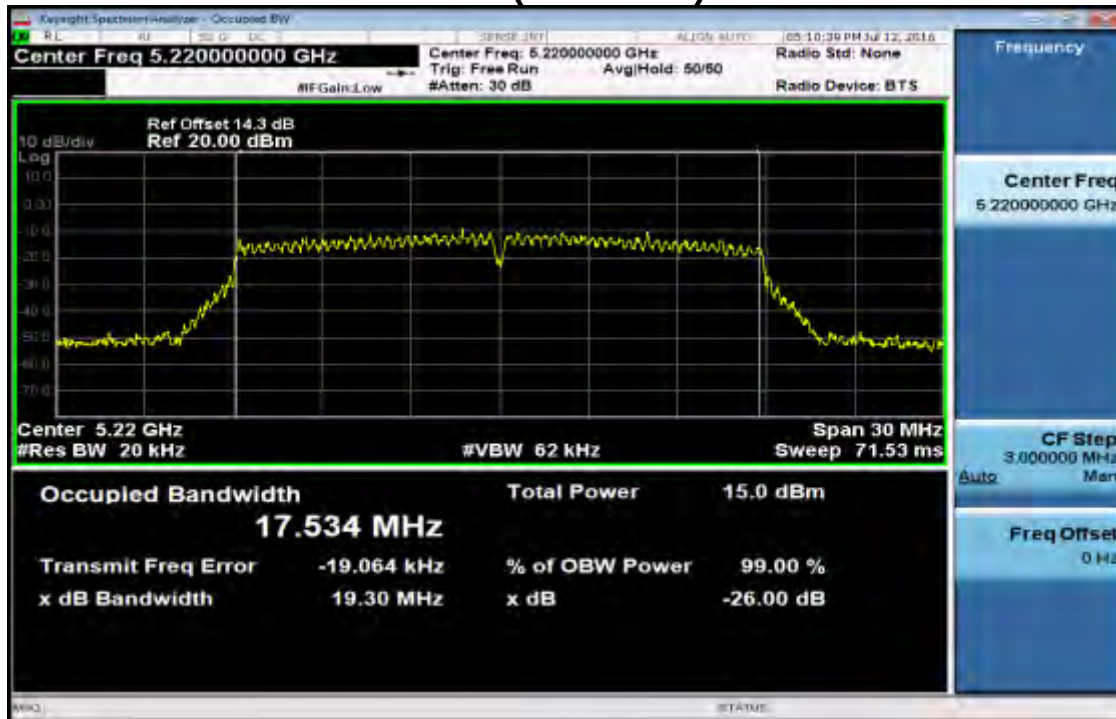
Beam Forming Mode:

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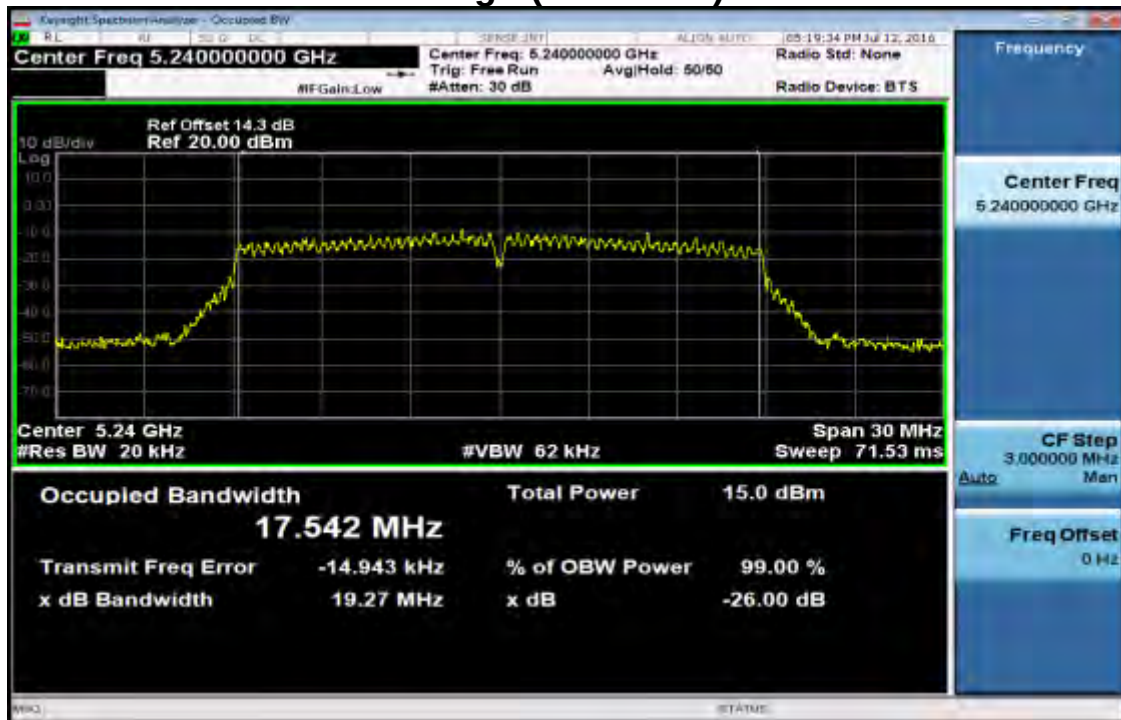
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26dB Band Width Test Data CH-High (5240 MHz)



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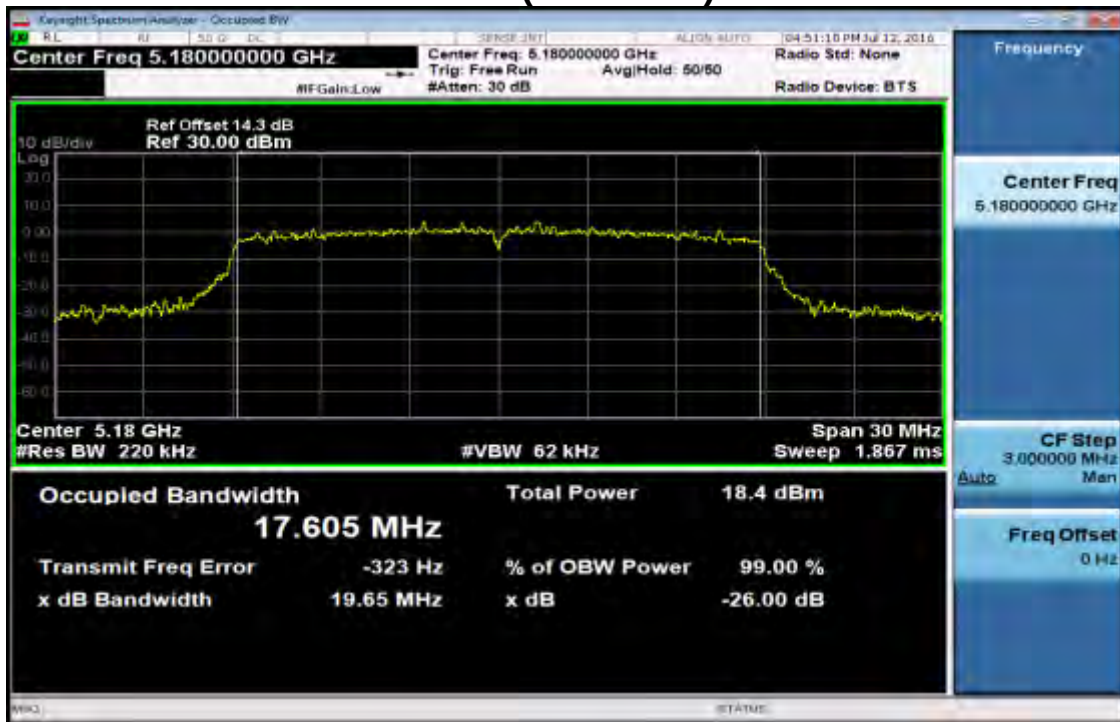
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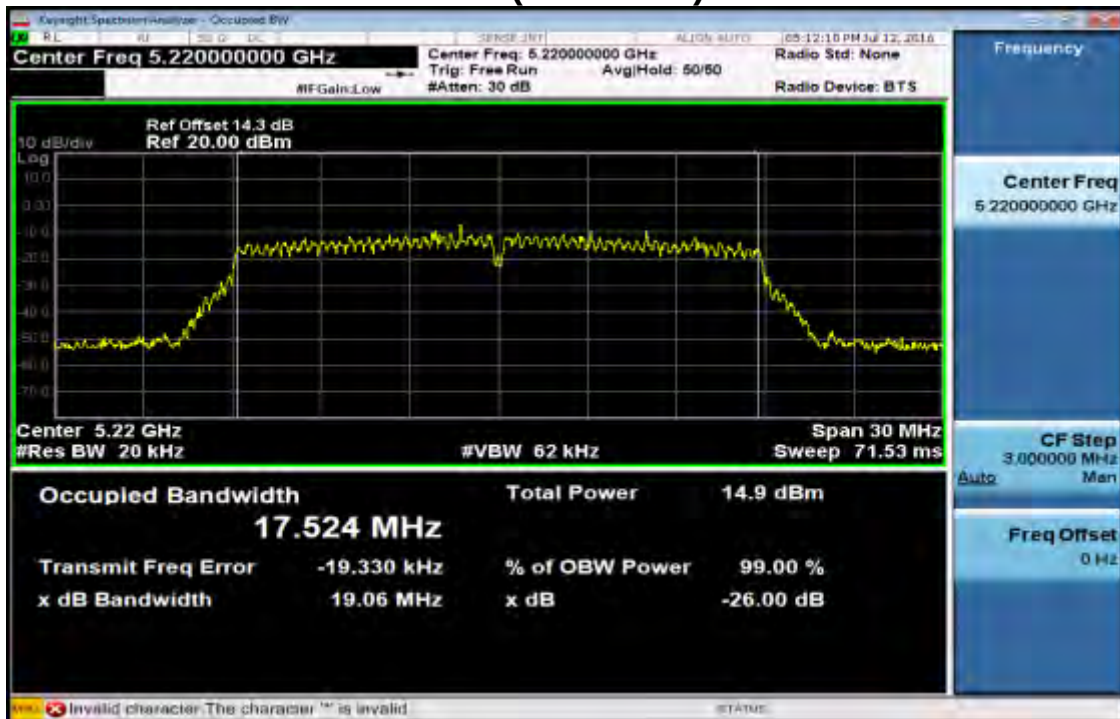
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802.11n HT20, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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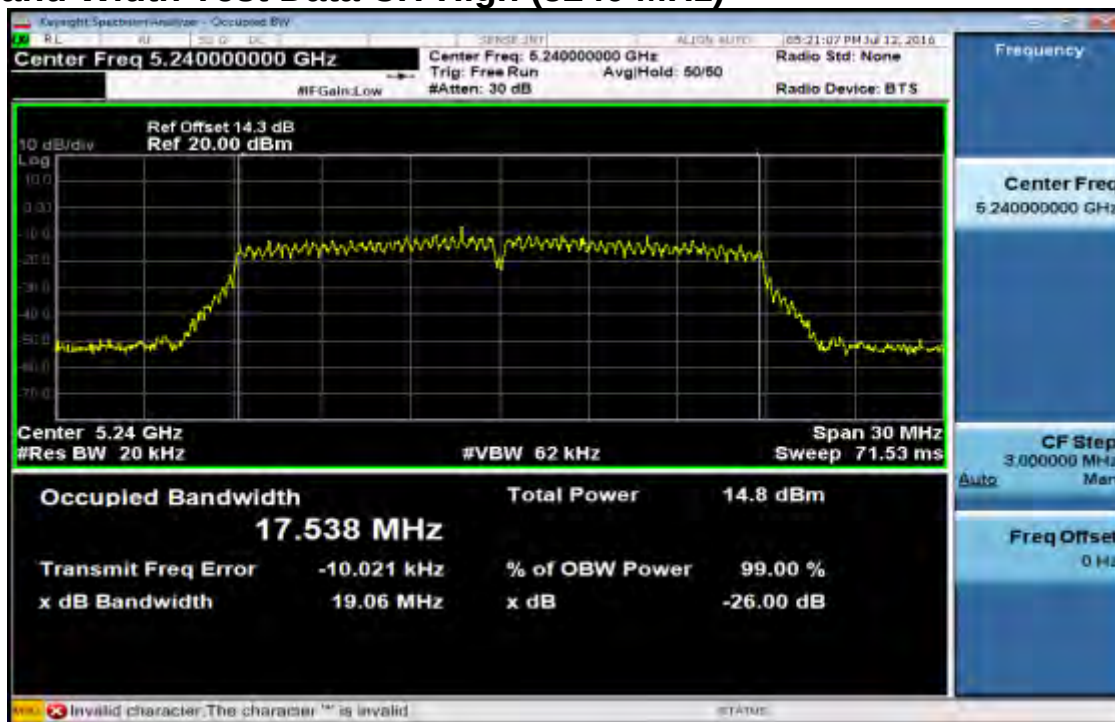
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26dB Band Width Test Data CH-High (5240 MHz)



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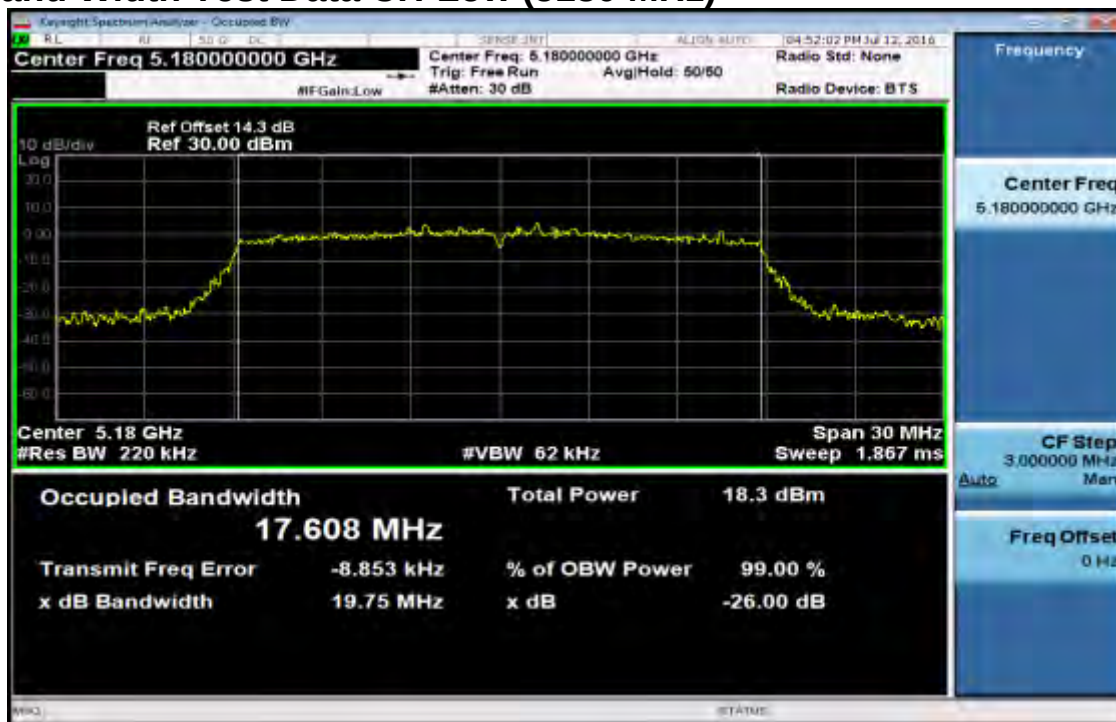
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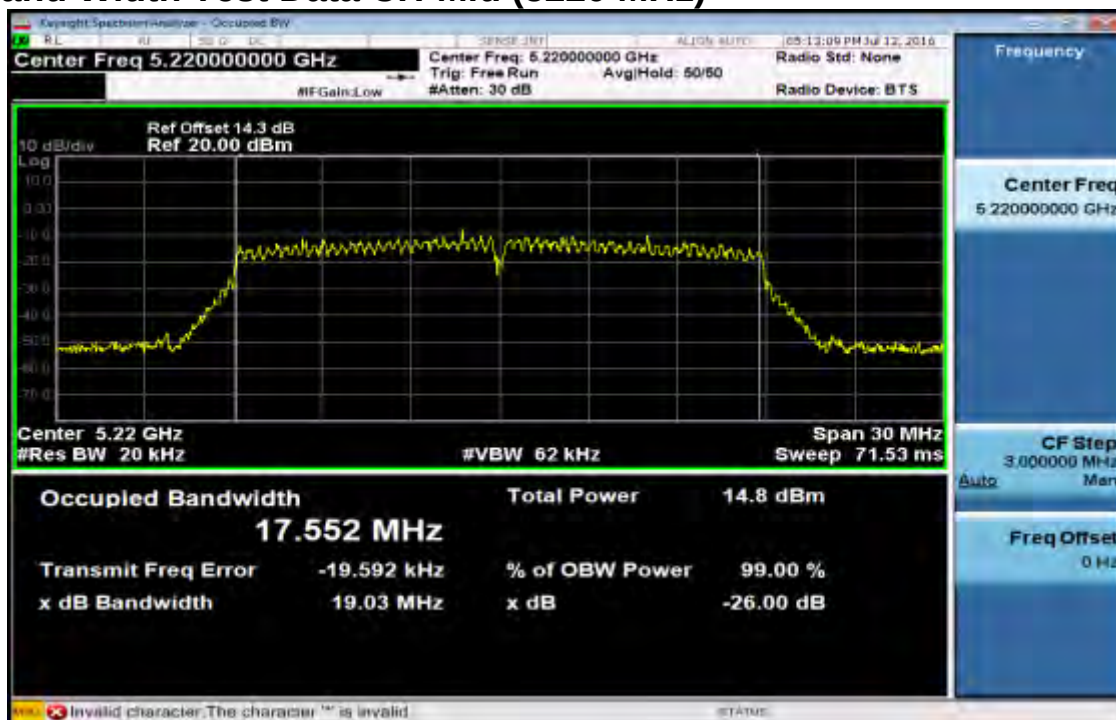
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802.11n HT20, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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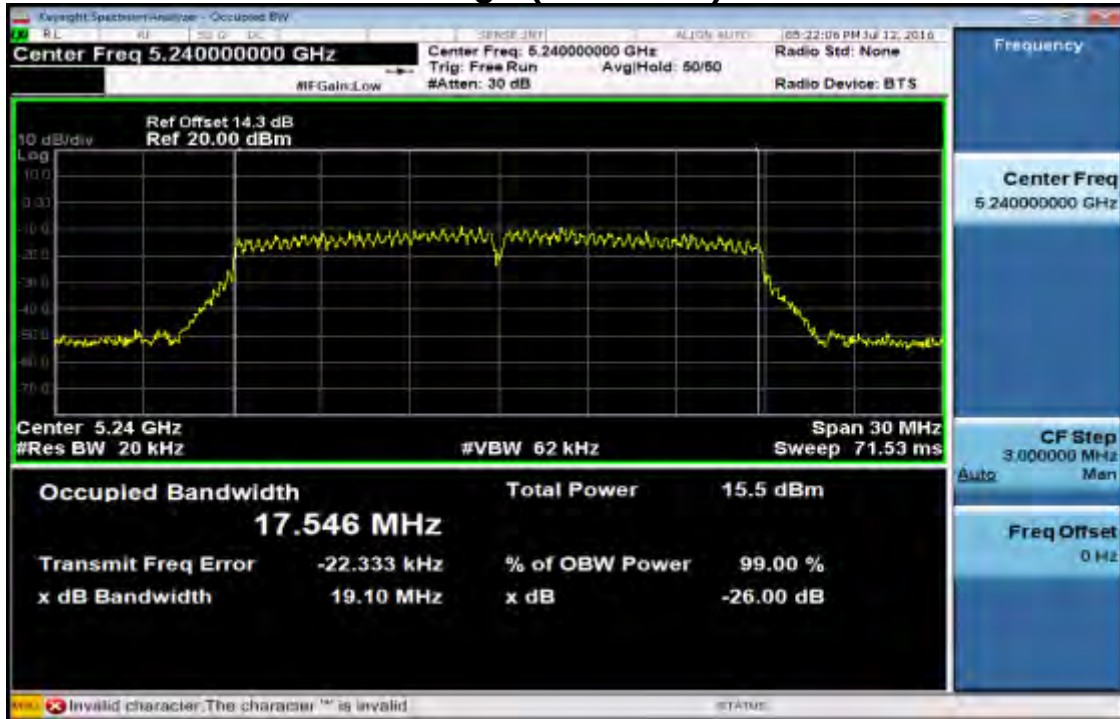
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26dB Band Width Test Data CH-High (5240 MHz)



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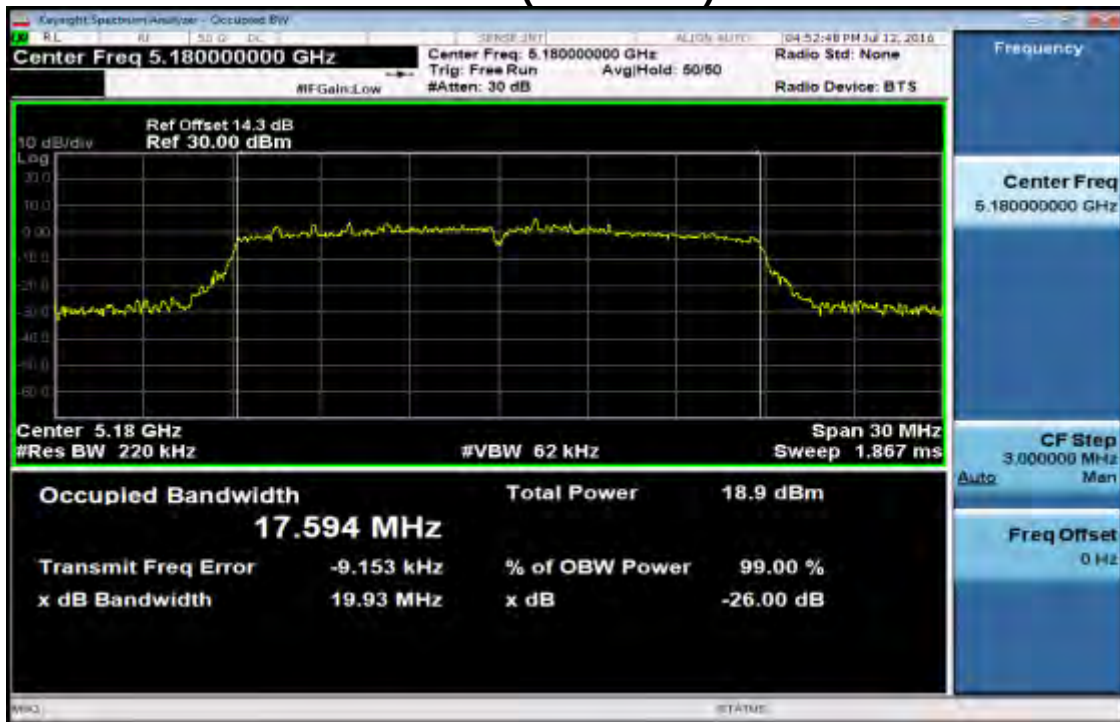
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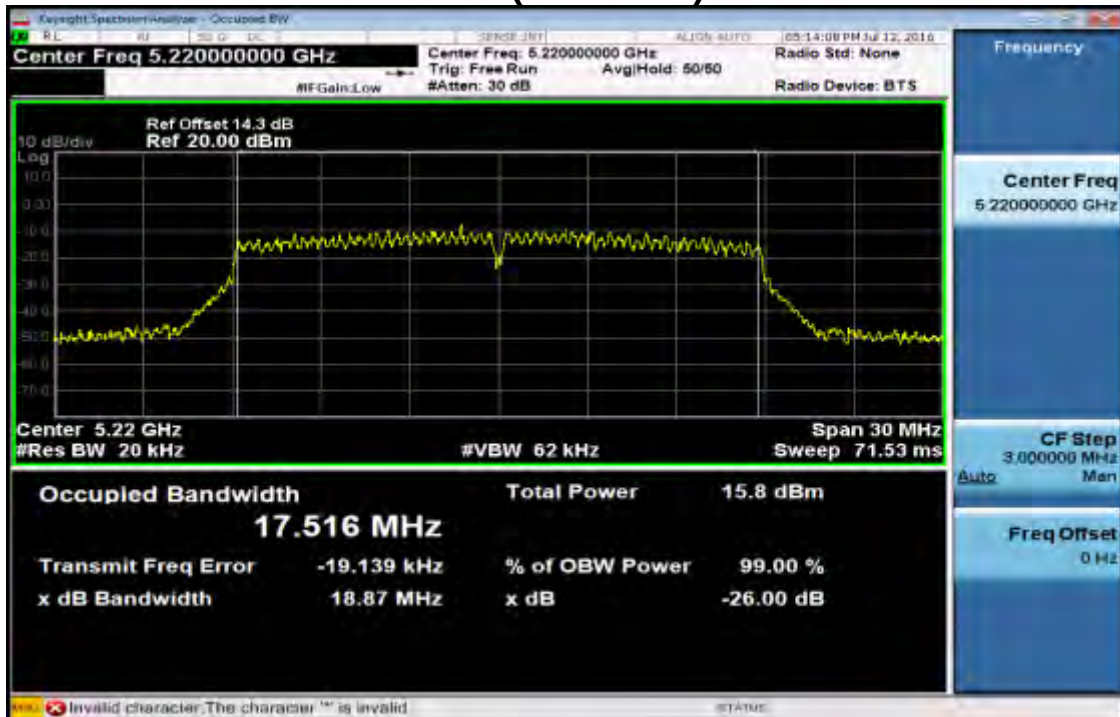
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802.11n HT20, 5150~5250 MHz (Aux3) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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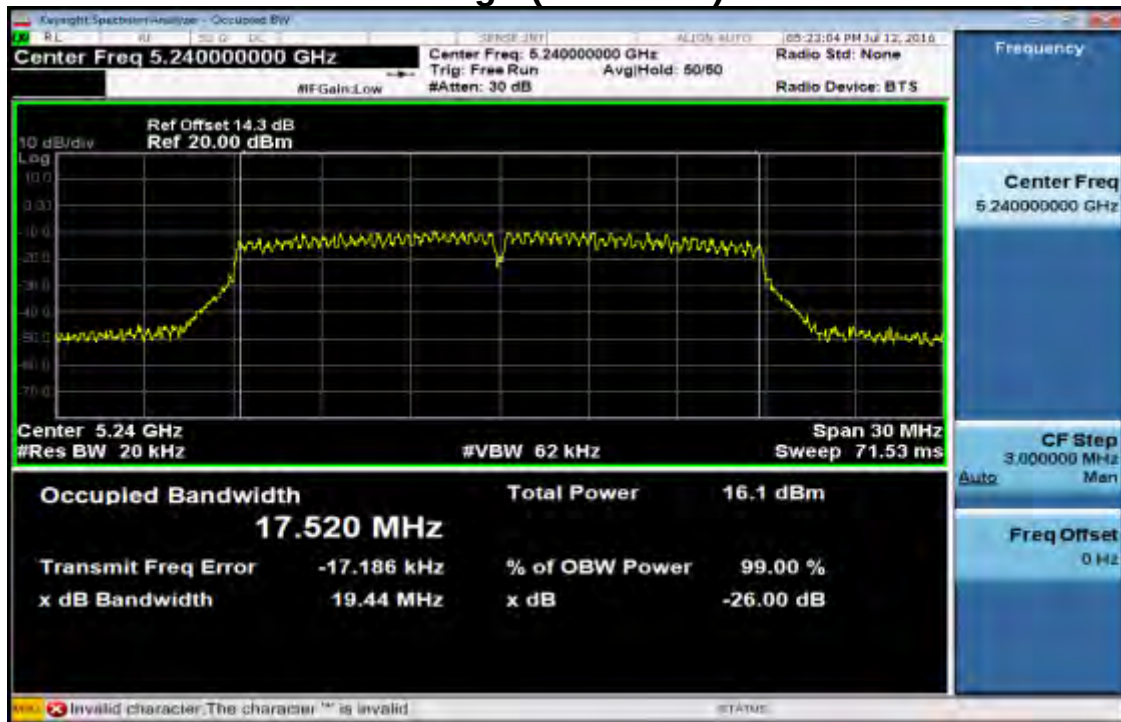
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26dB Band Width Test Data CH-High (5240 MHz)



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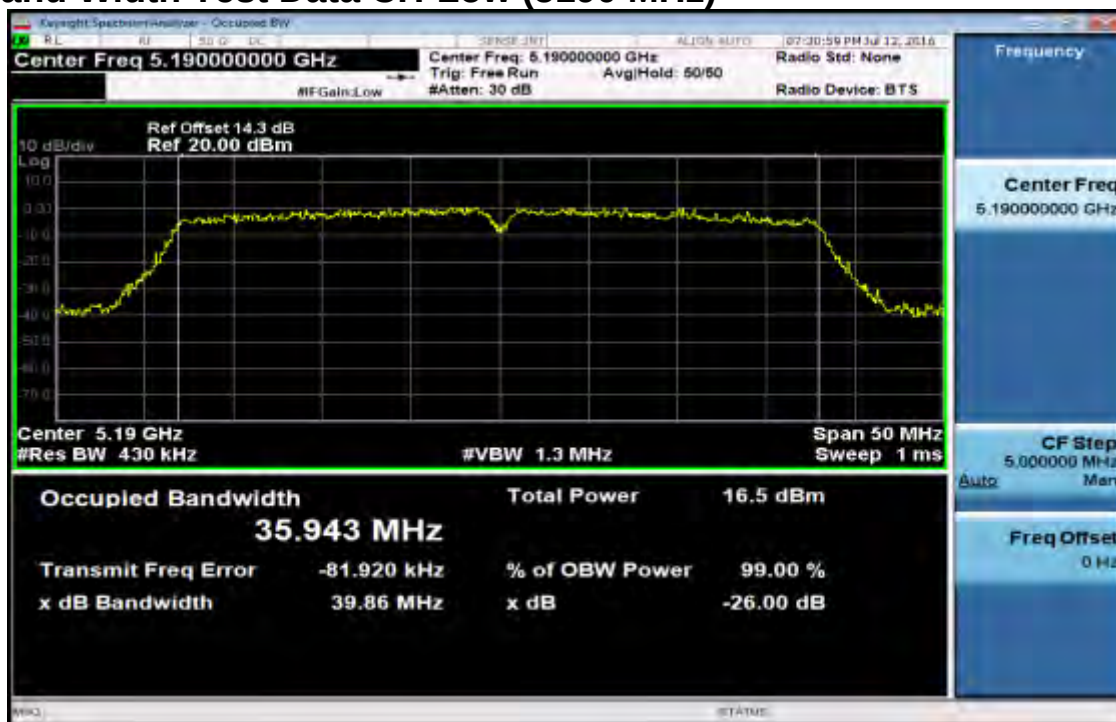
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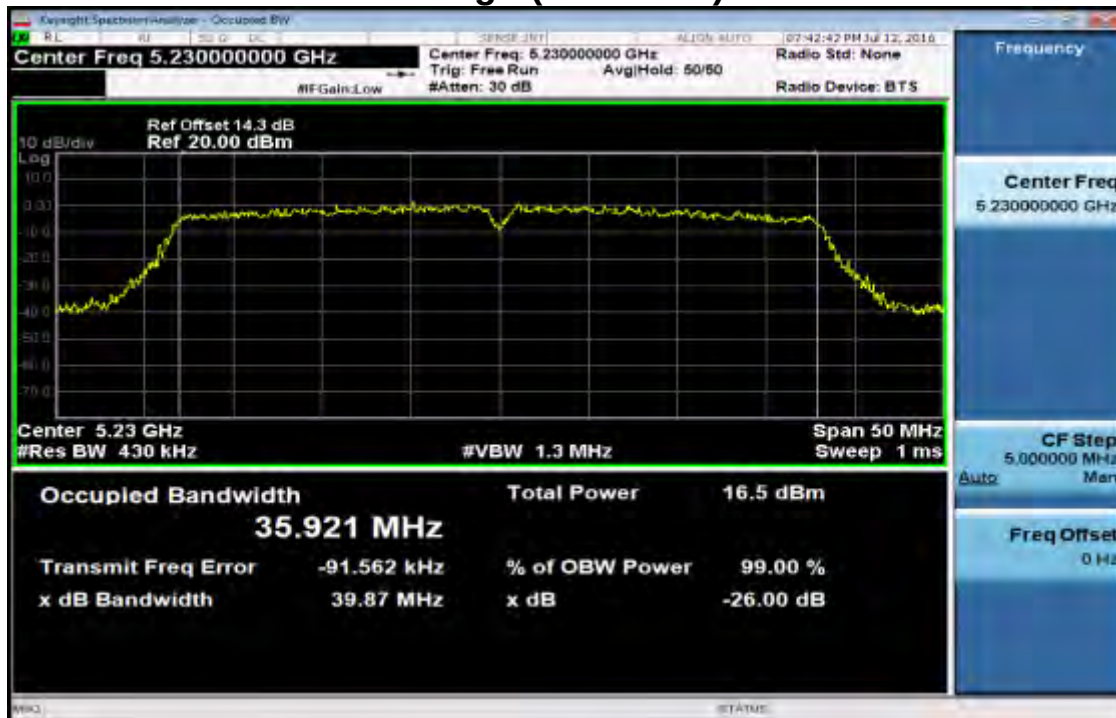
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802.11n HT40, 5150~5250 MHz (Main)

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



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



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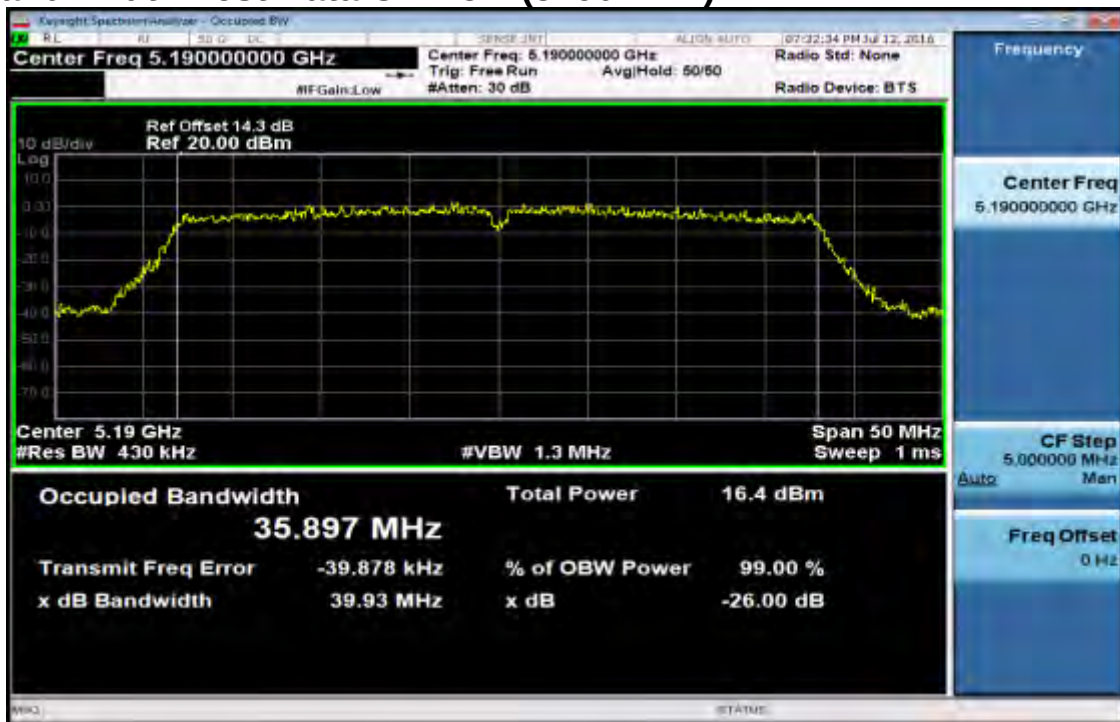
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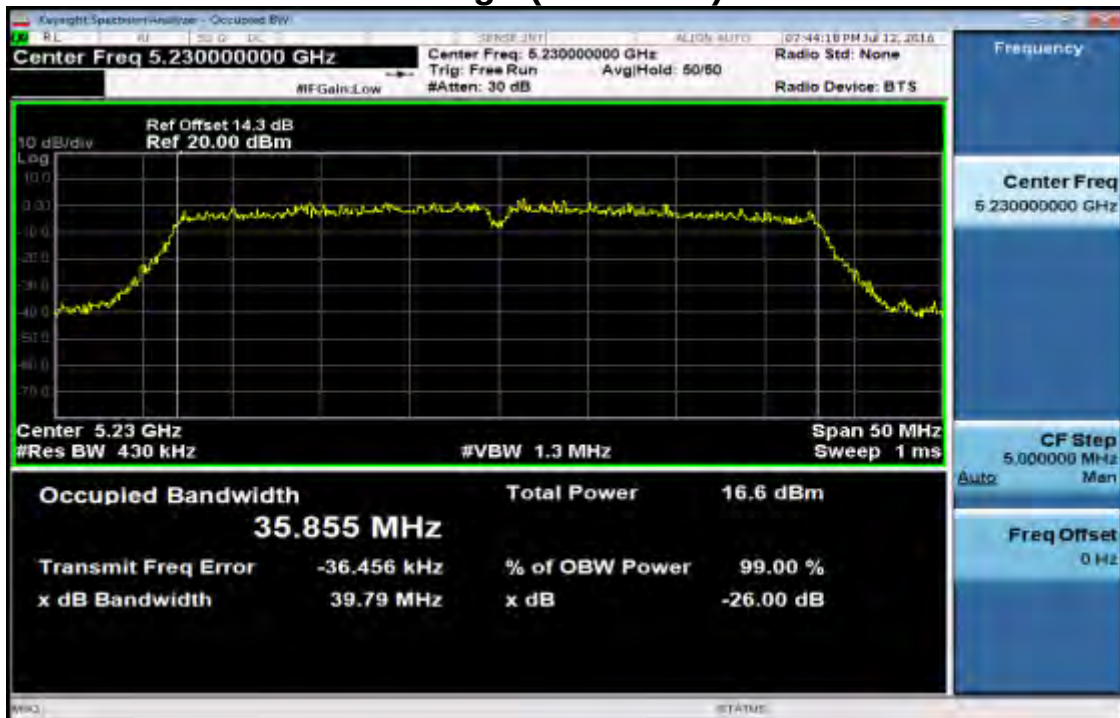
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802.11n HT40, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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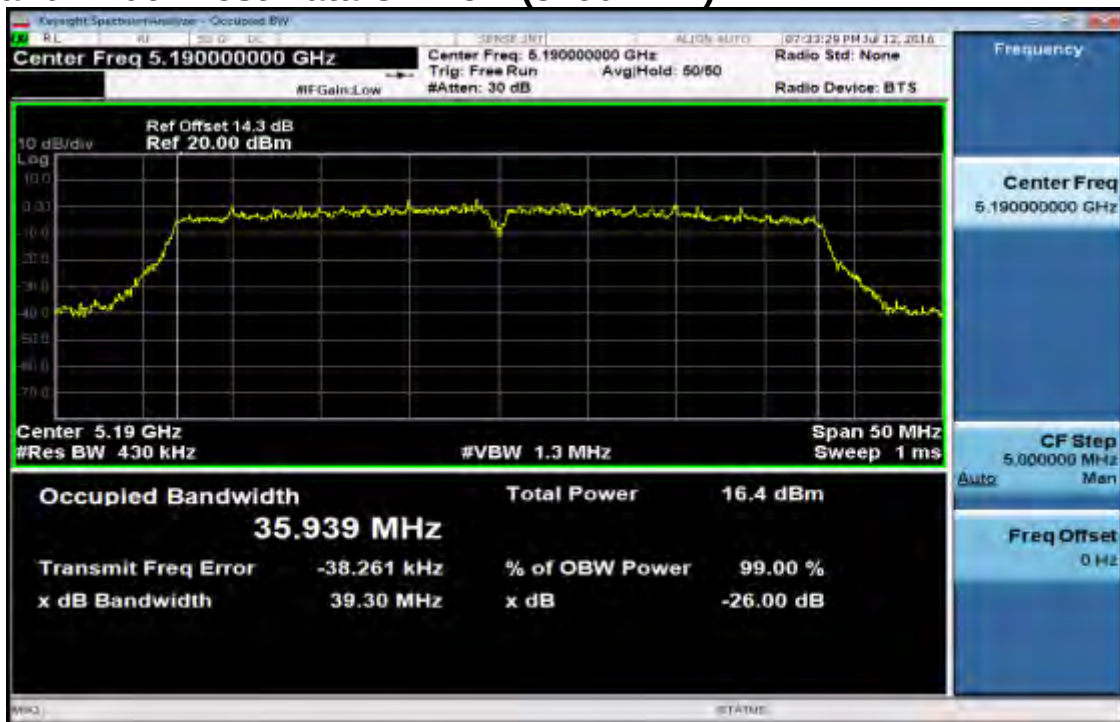
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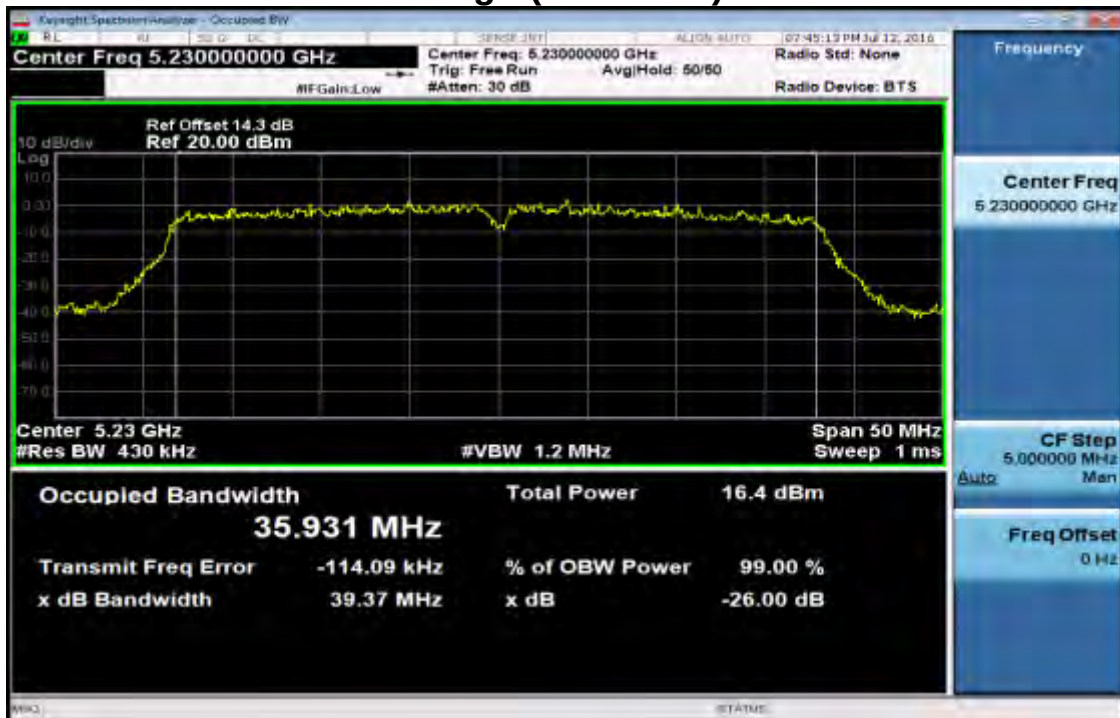
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802.11n HT40, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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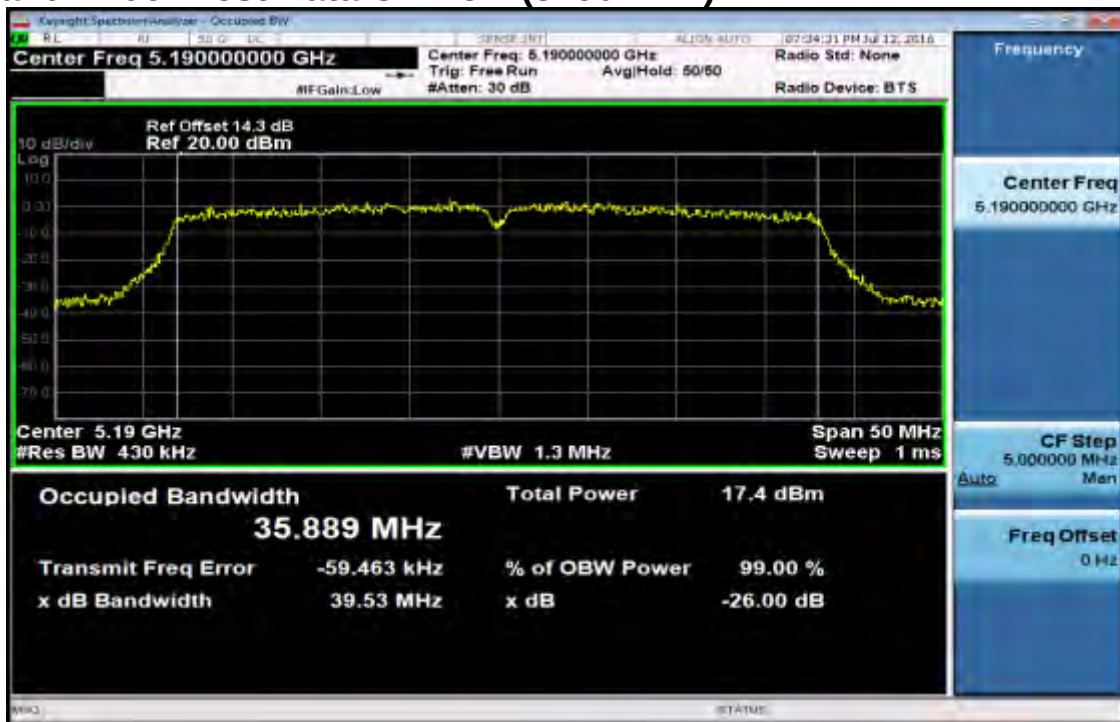
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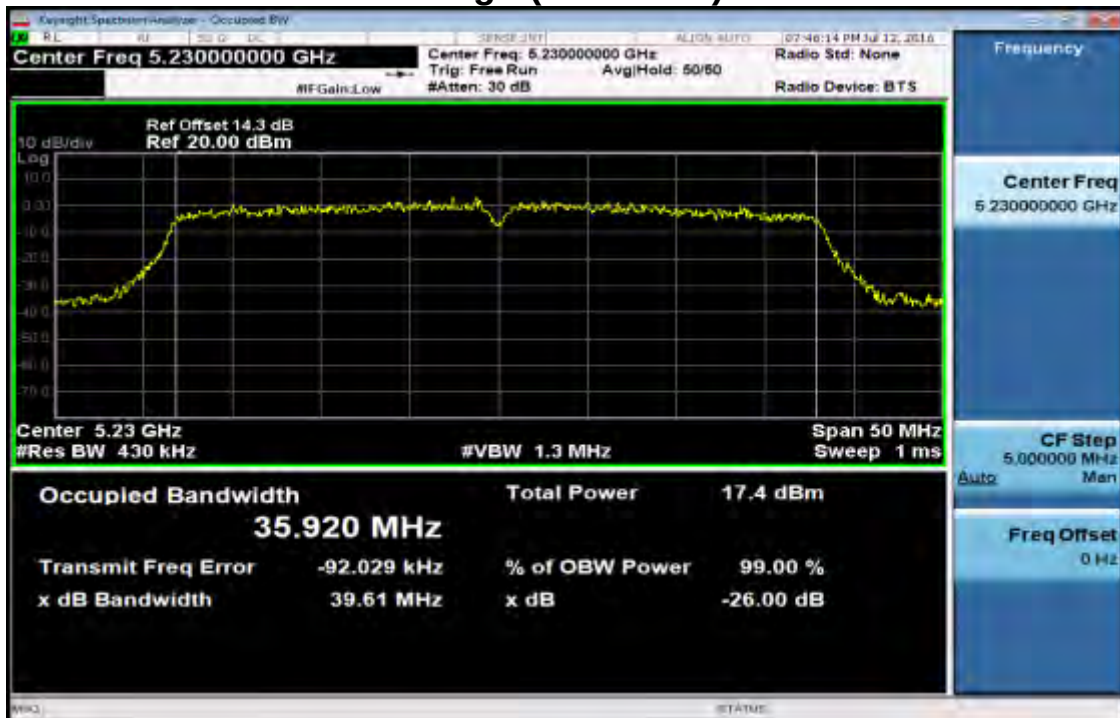
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26dB Band Width Test Data CH-High (5230 MHz)



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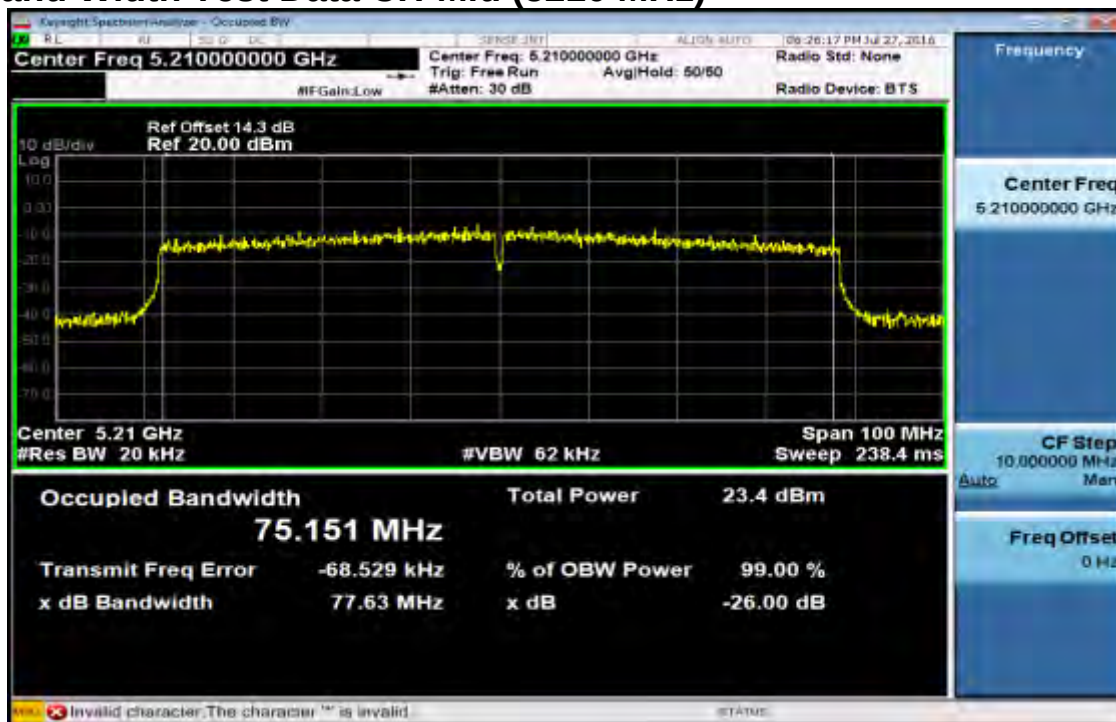
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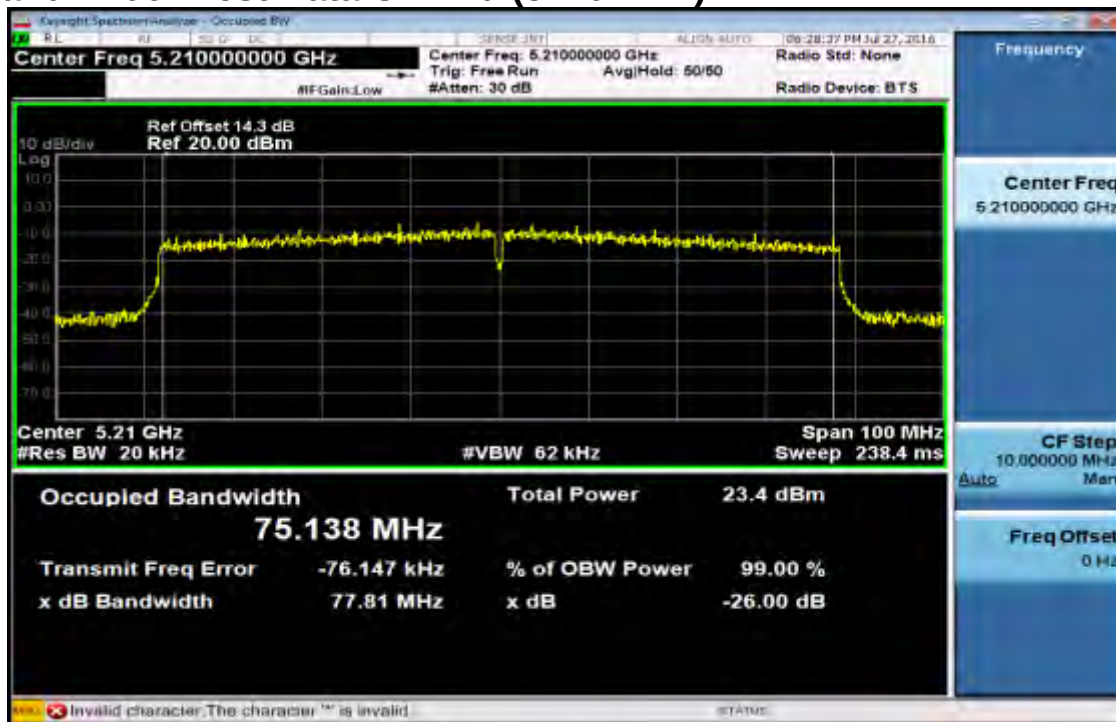
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Mid (5210 MHz)



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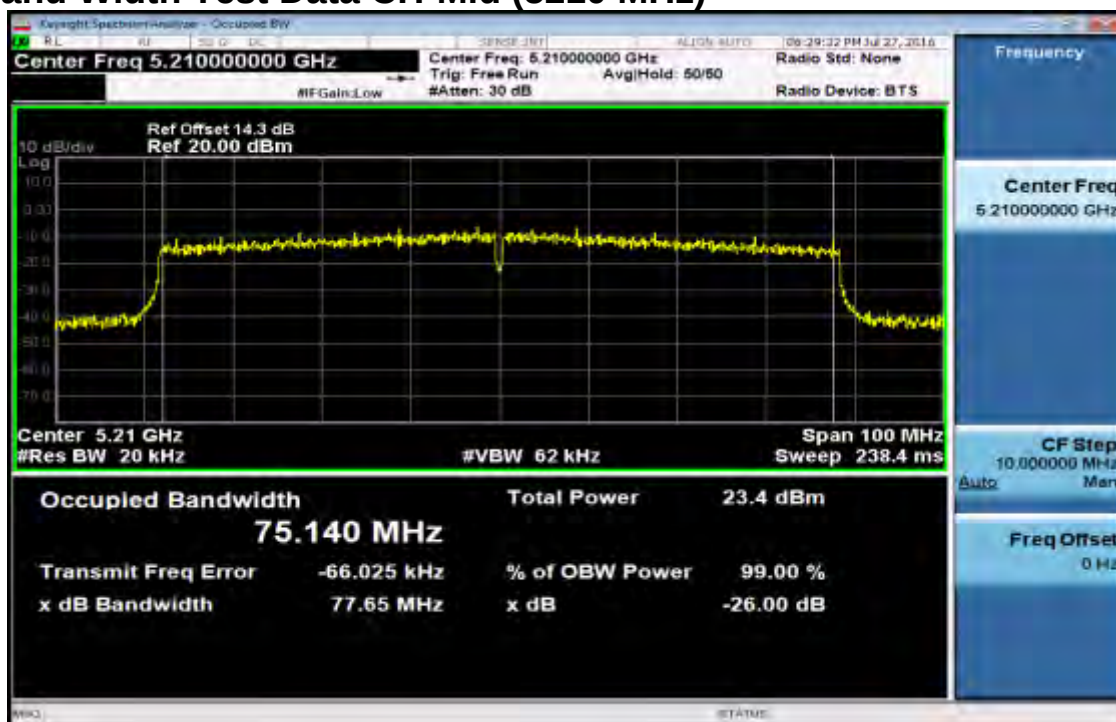
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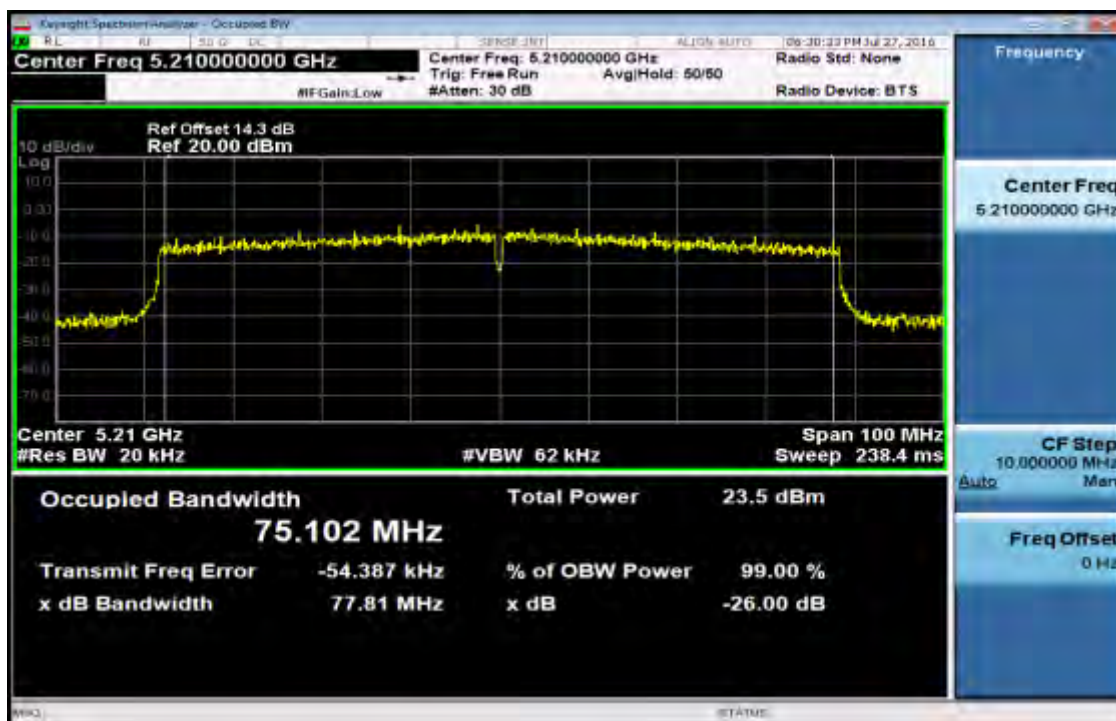
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802.11ac VHT80, 5150~5250 MHz (Aux2)

26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux3)



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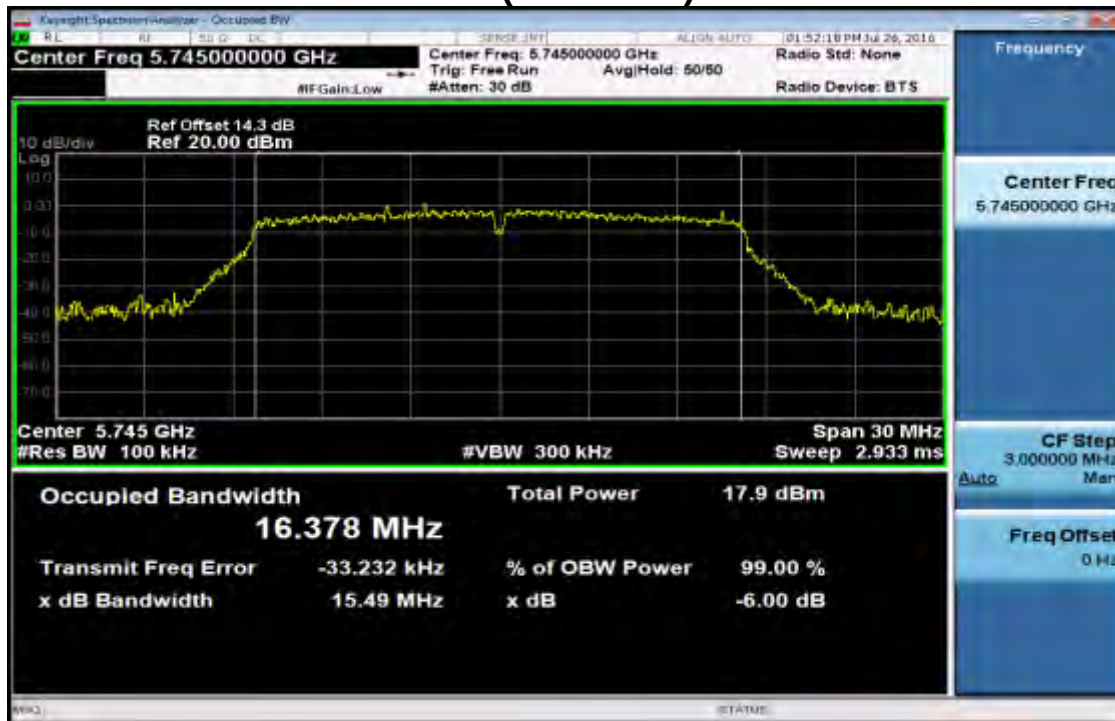
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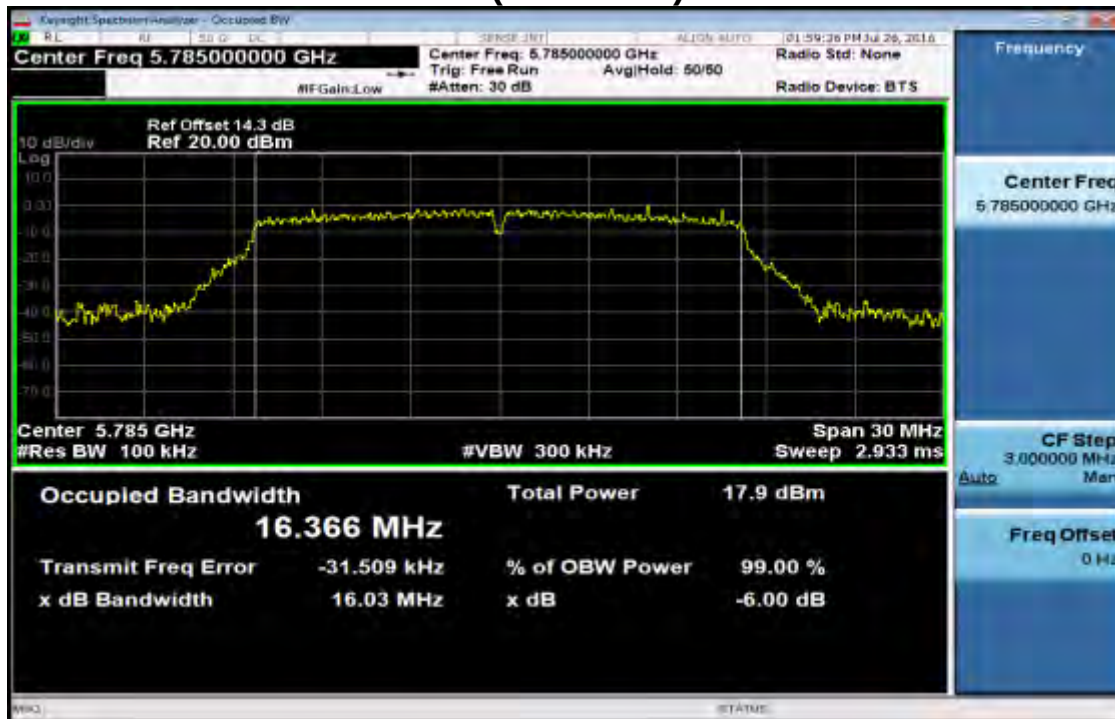
6dB Band Width measure with Peak detector for FCC

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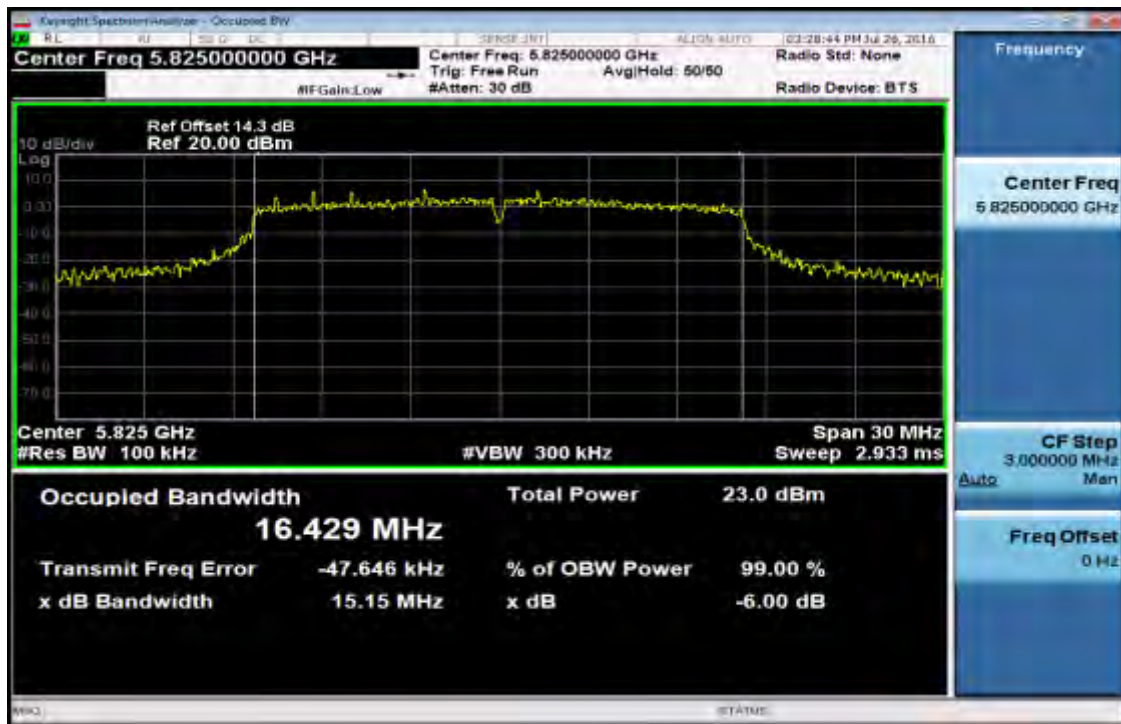
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6dB Band Width Test Data CH-High (5825 MHz)



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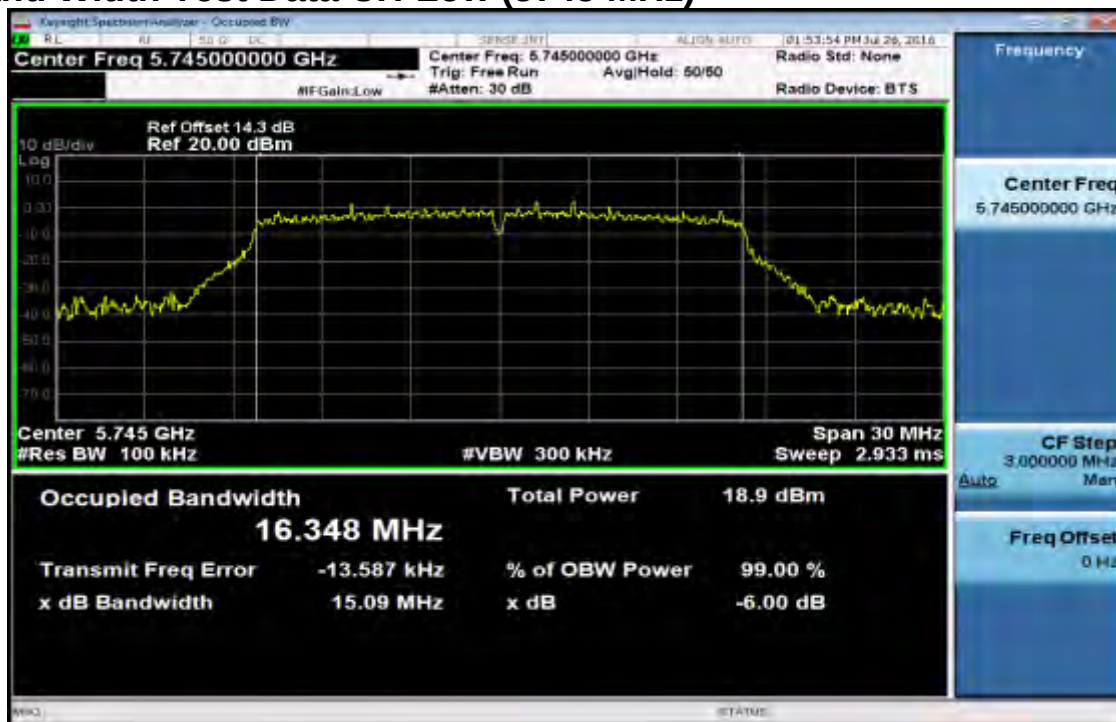
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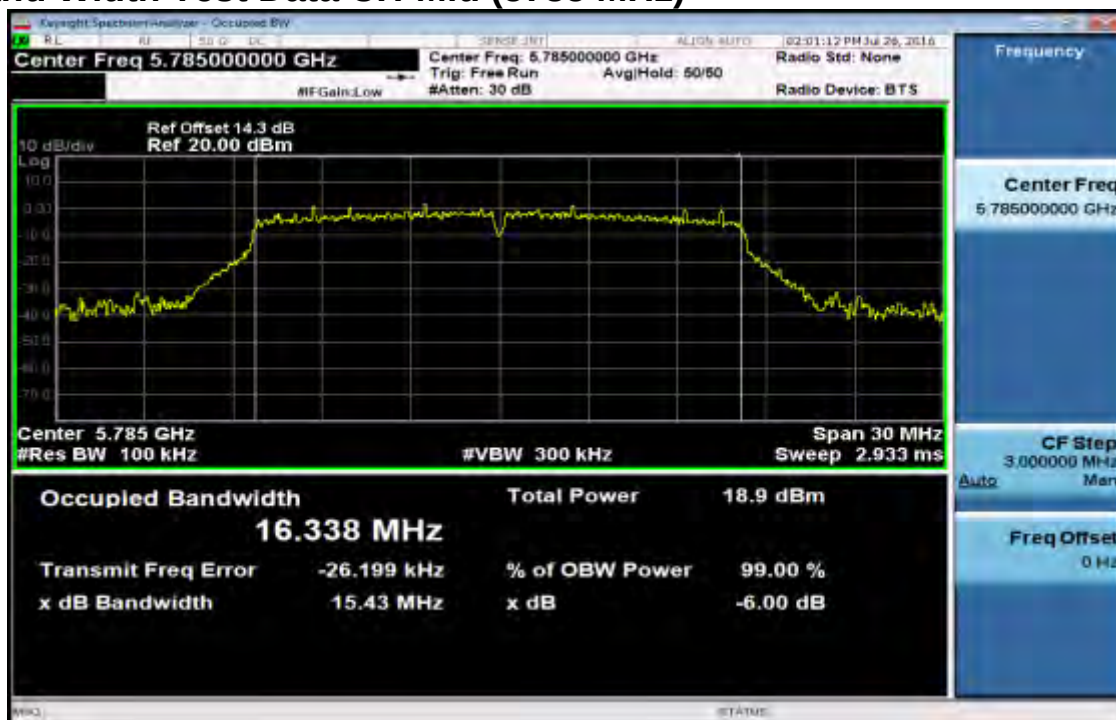
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802.11a, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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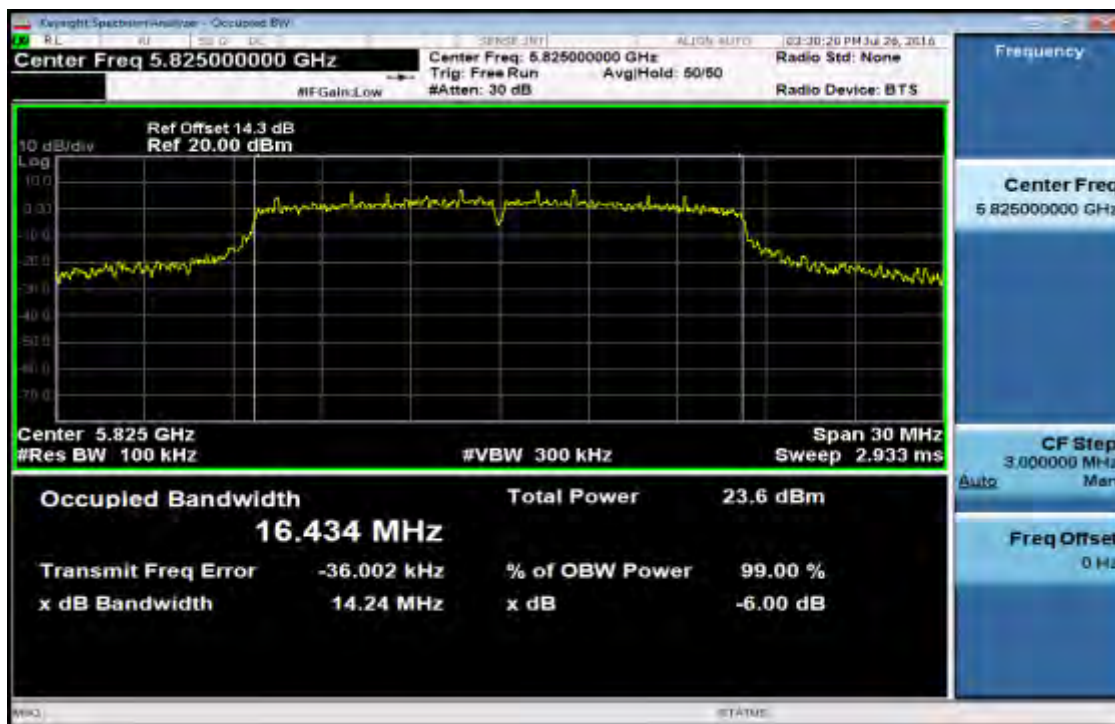
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6dB Band Width Test Data CH-High (5825 MHz)



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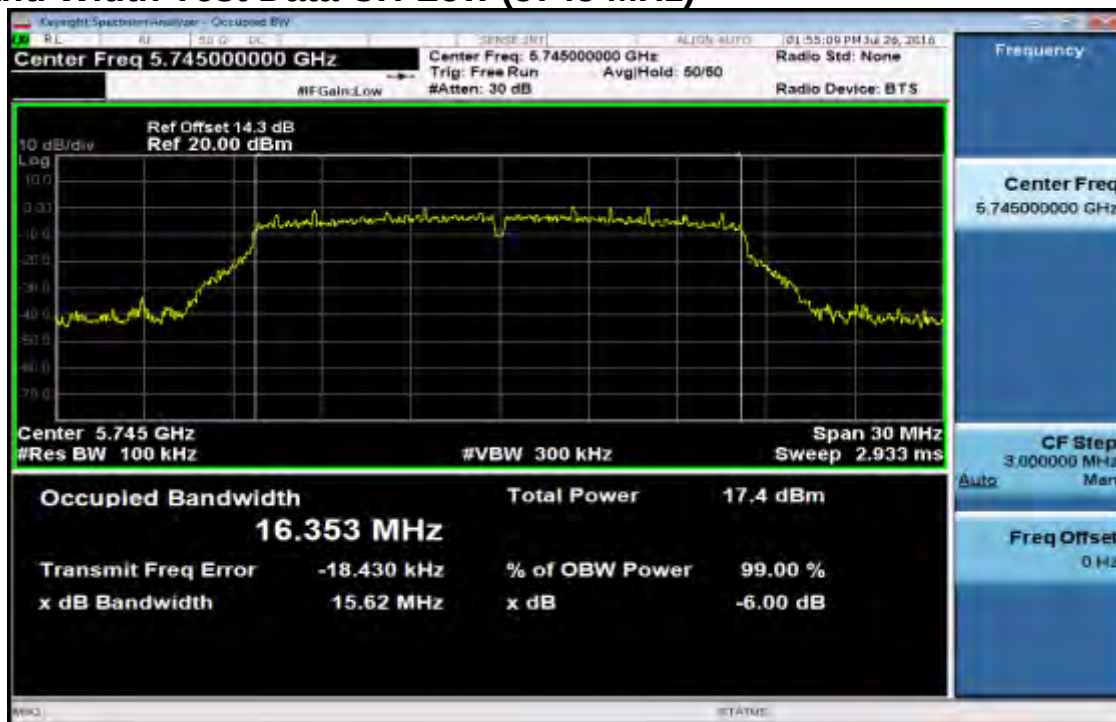
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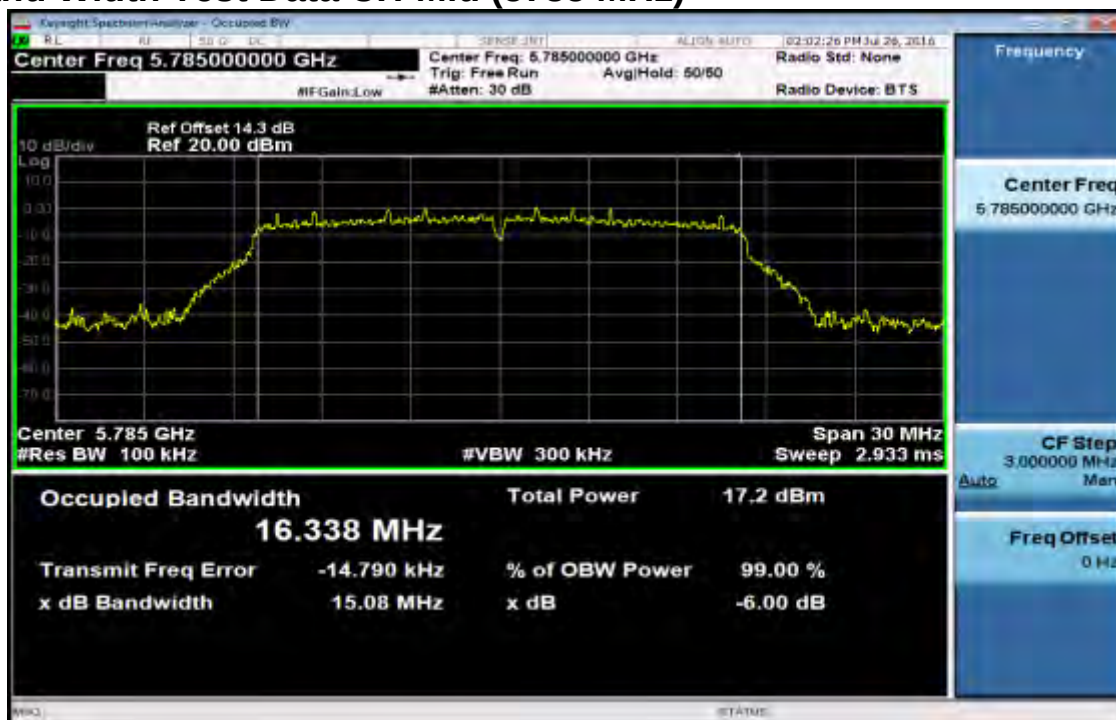
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802.11a, 5725~5850 MHz (Aux2)

6dB Band Width Test Data CH-Low (5745 MHz)



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



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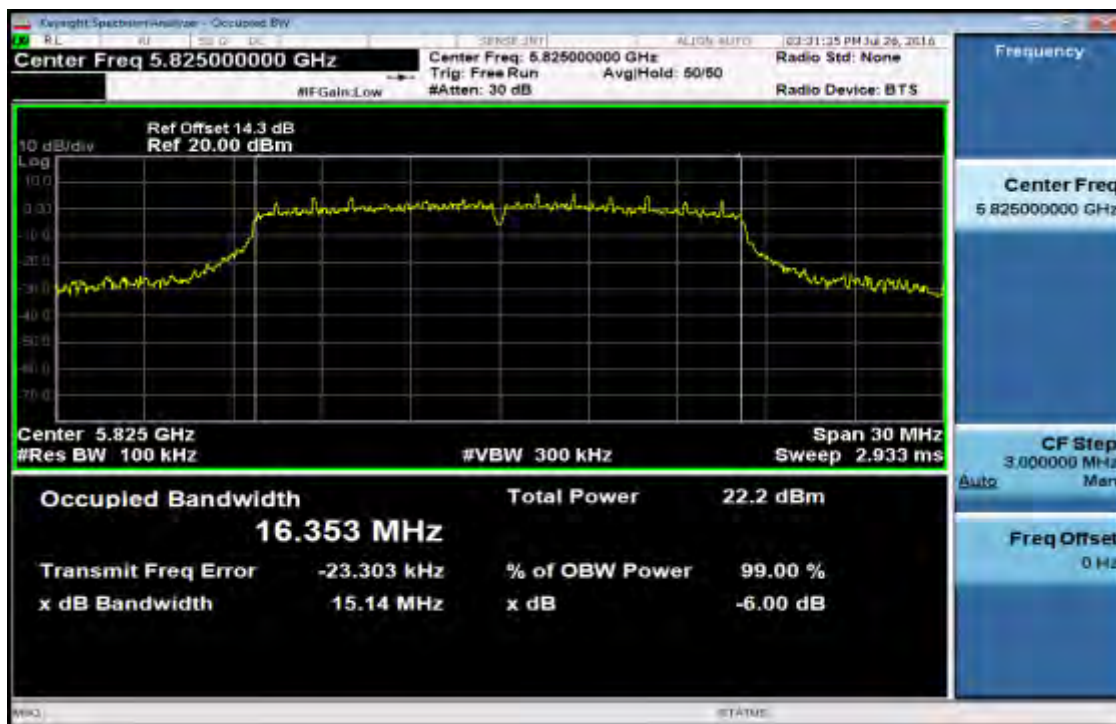
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6dB Band Width Test Data CH-High (5825 MHz)



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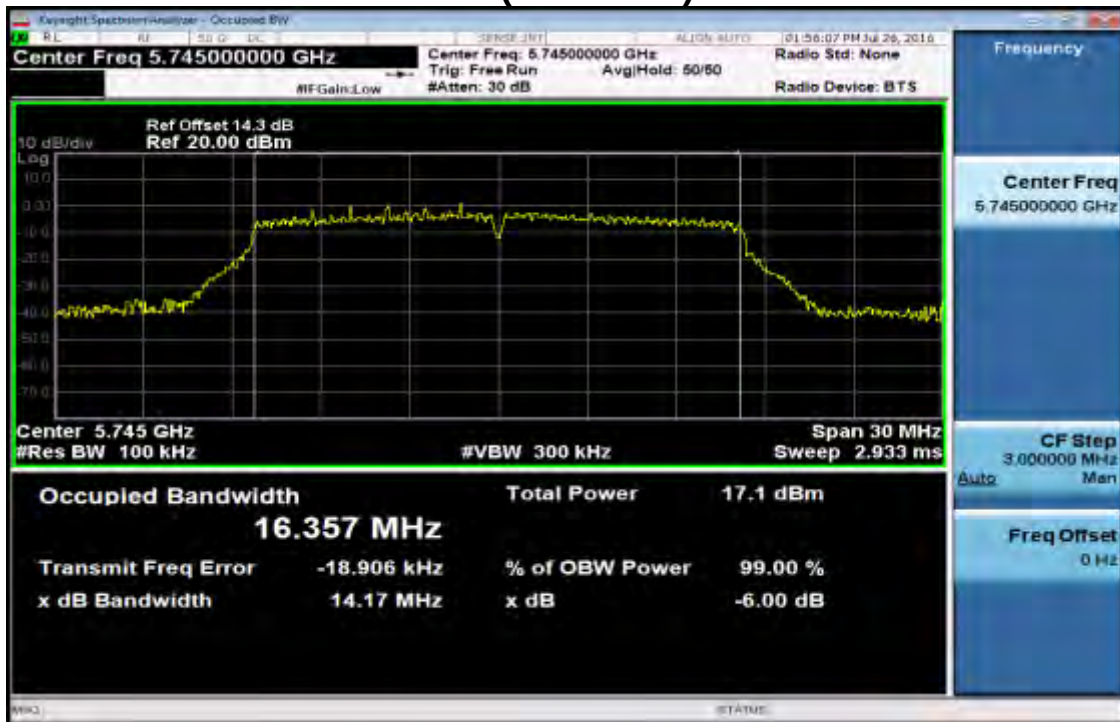
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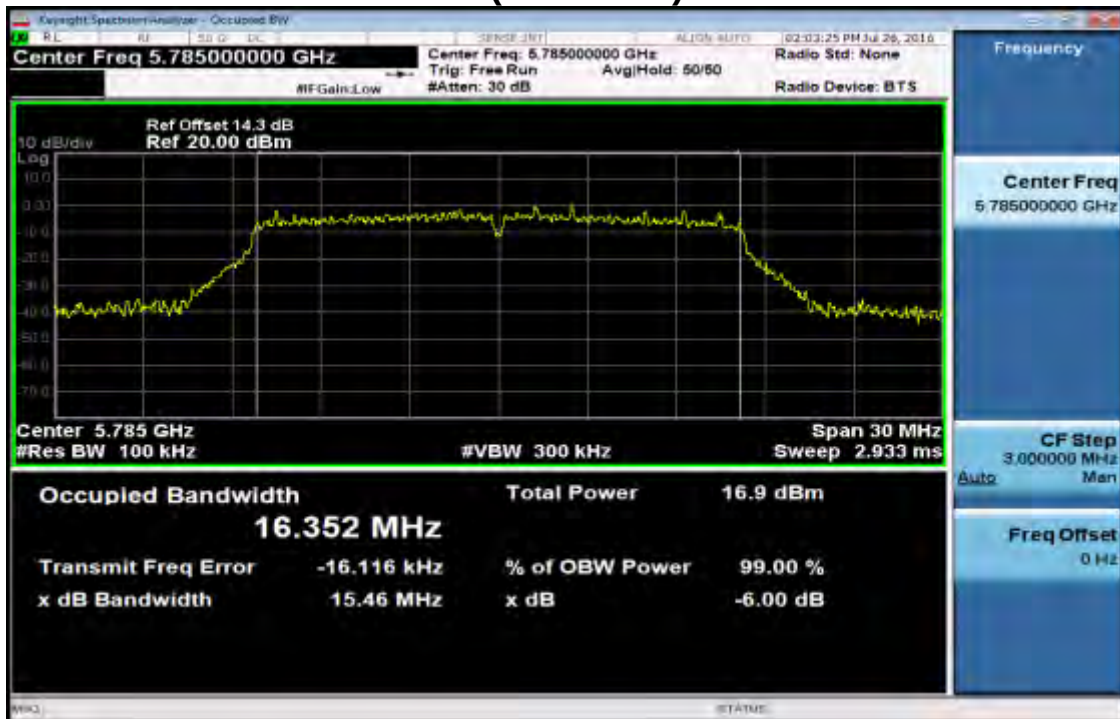
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802.11a, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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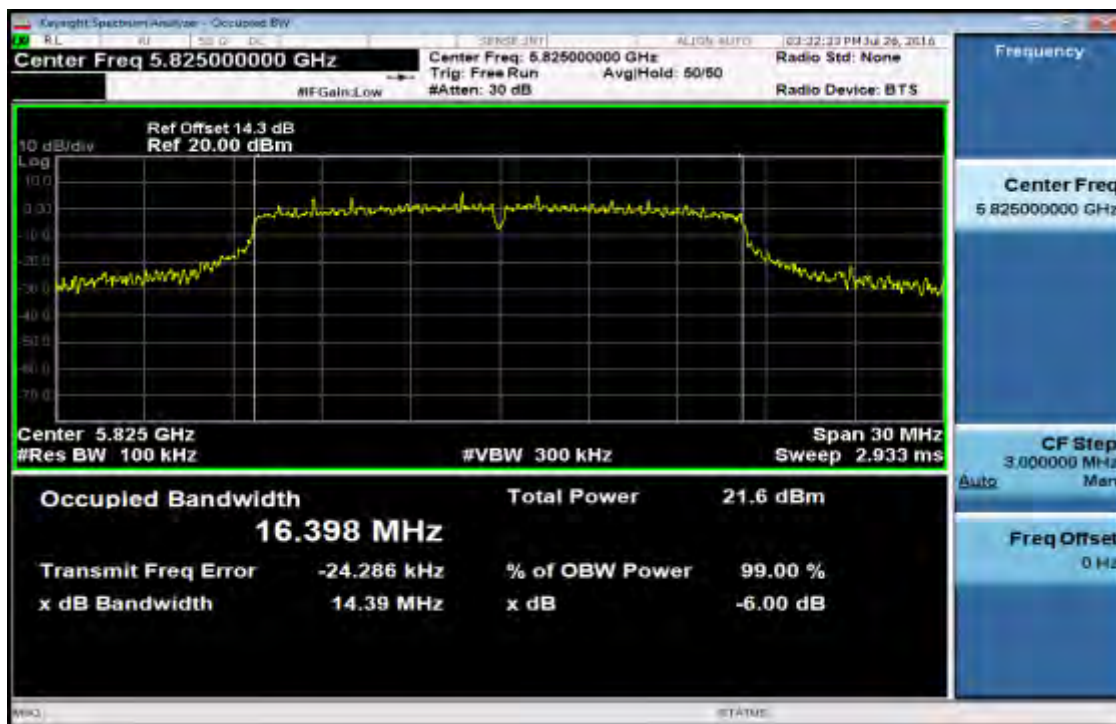
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6dB Band Width Test Data CH-High (5825 MHz)



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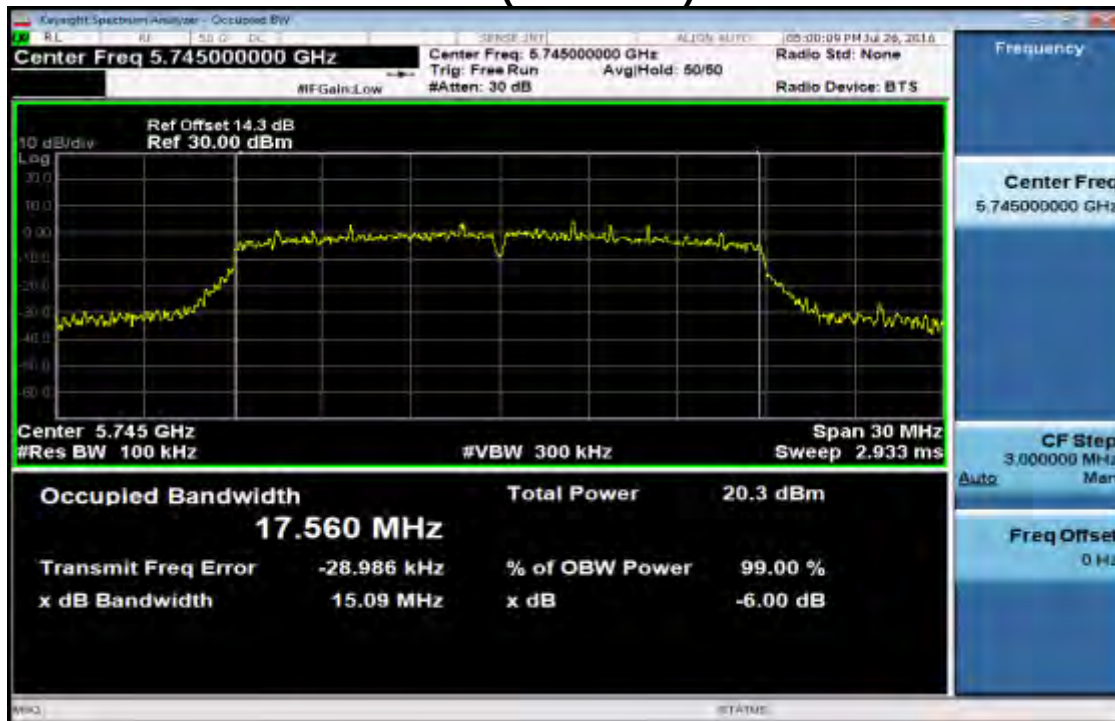
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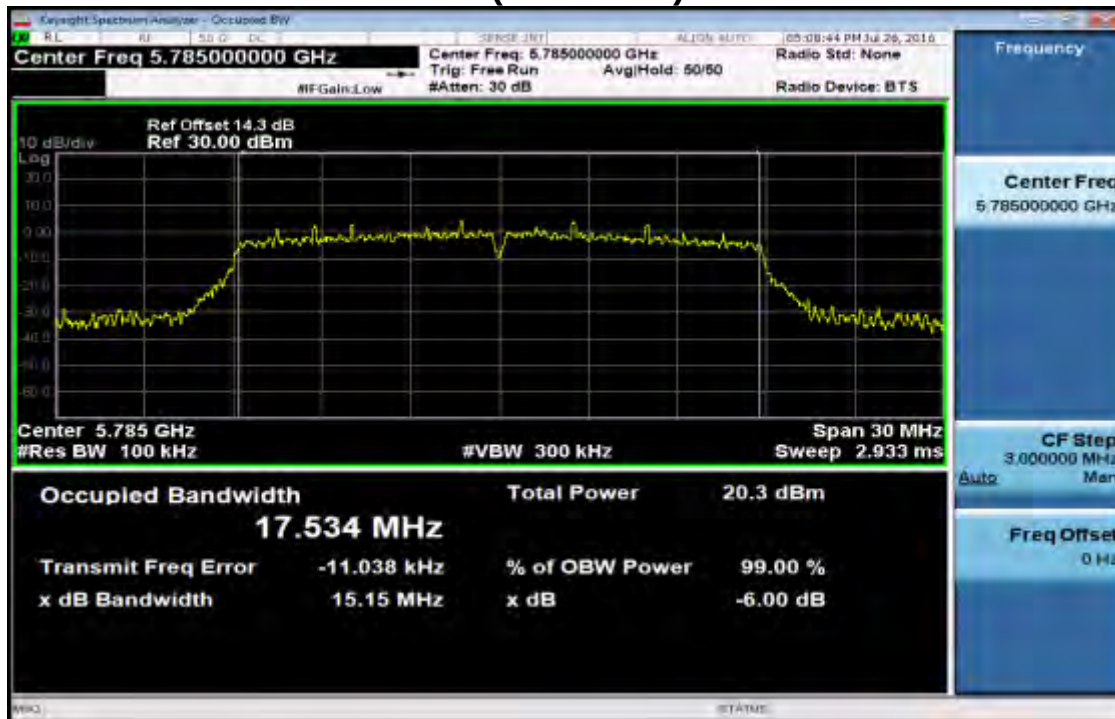
CDD Mode:

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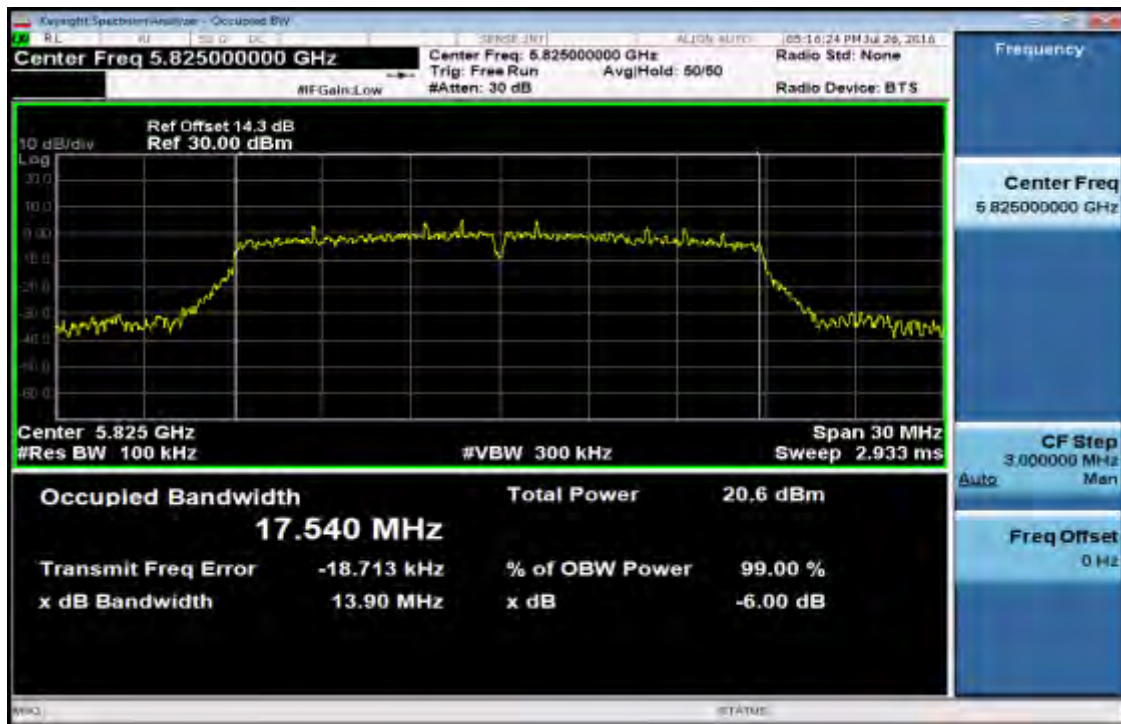
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6dB Band Width Test Data CH-High (5825 MHz)



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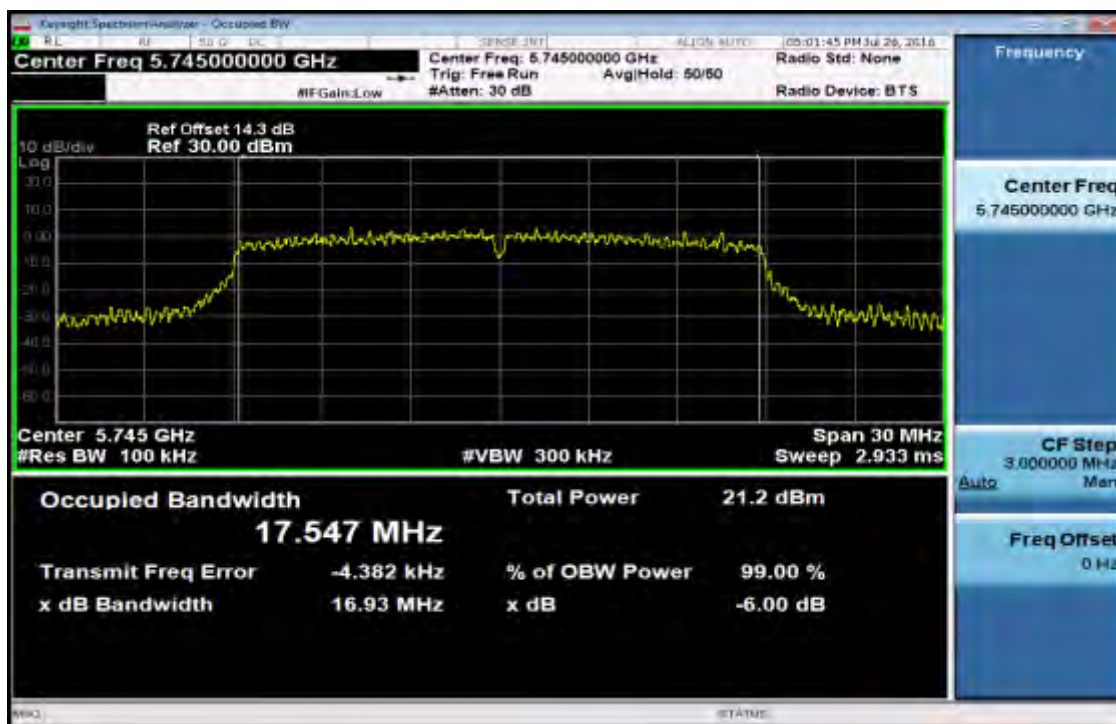
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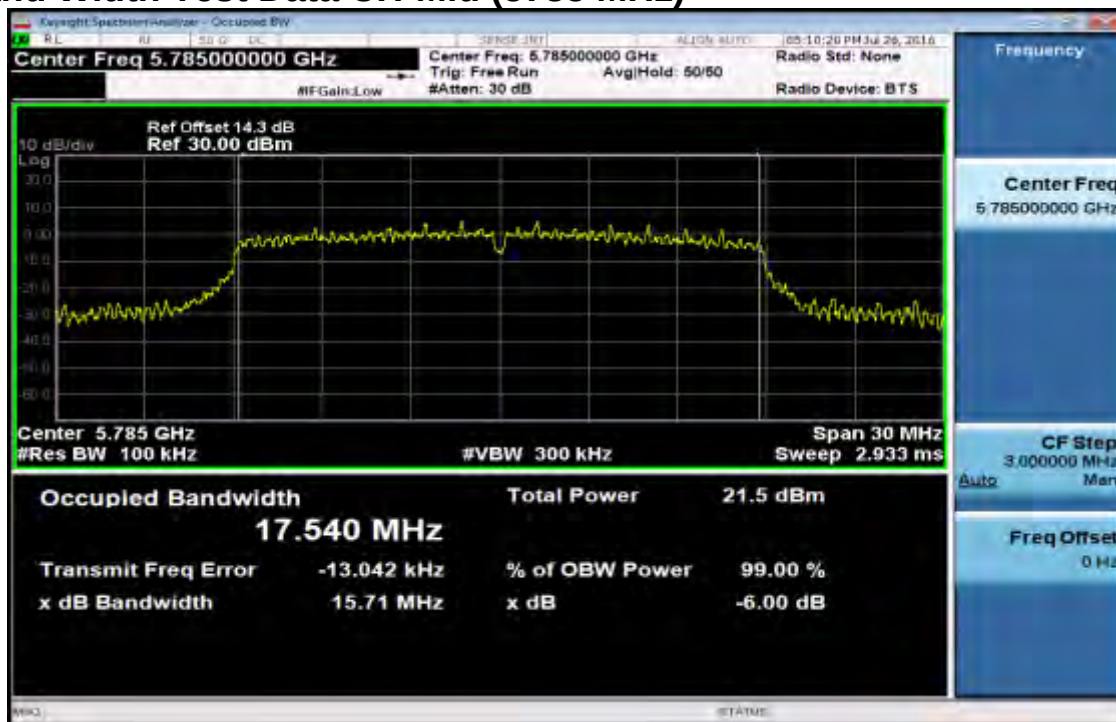
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802.11n_HT20, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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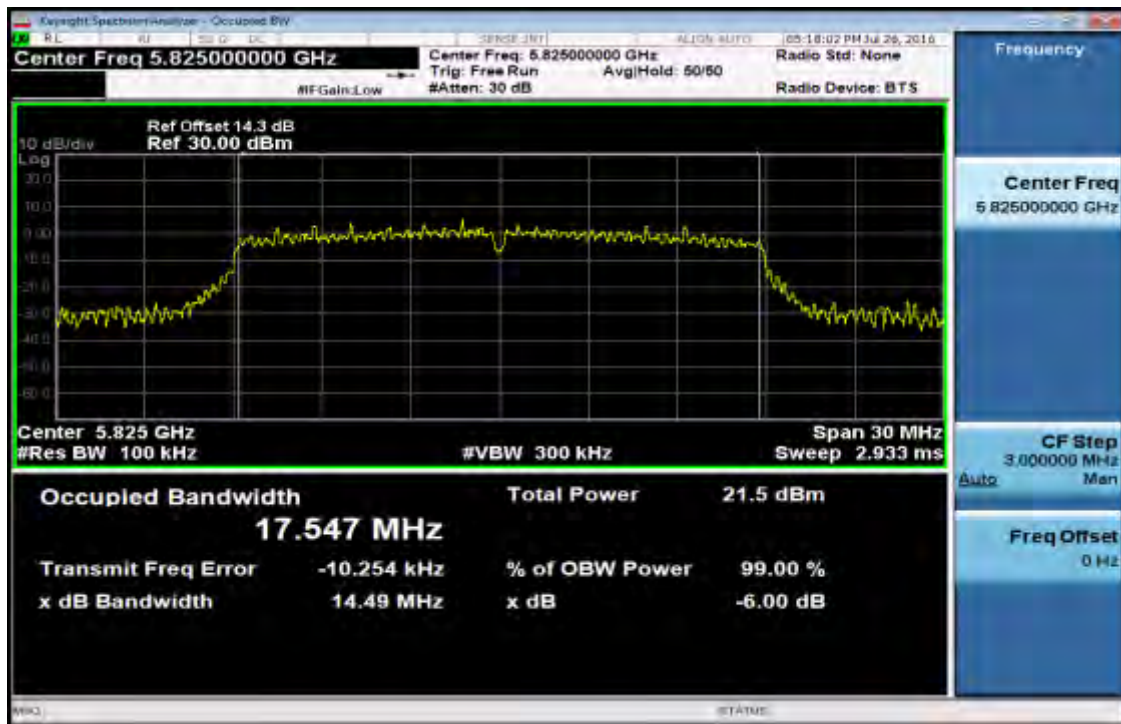
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6dB Band Width Test Data CH-High (5825 MHz)



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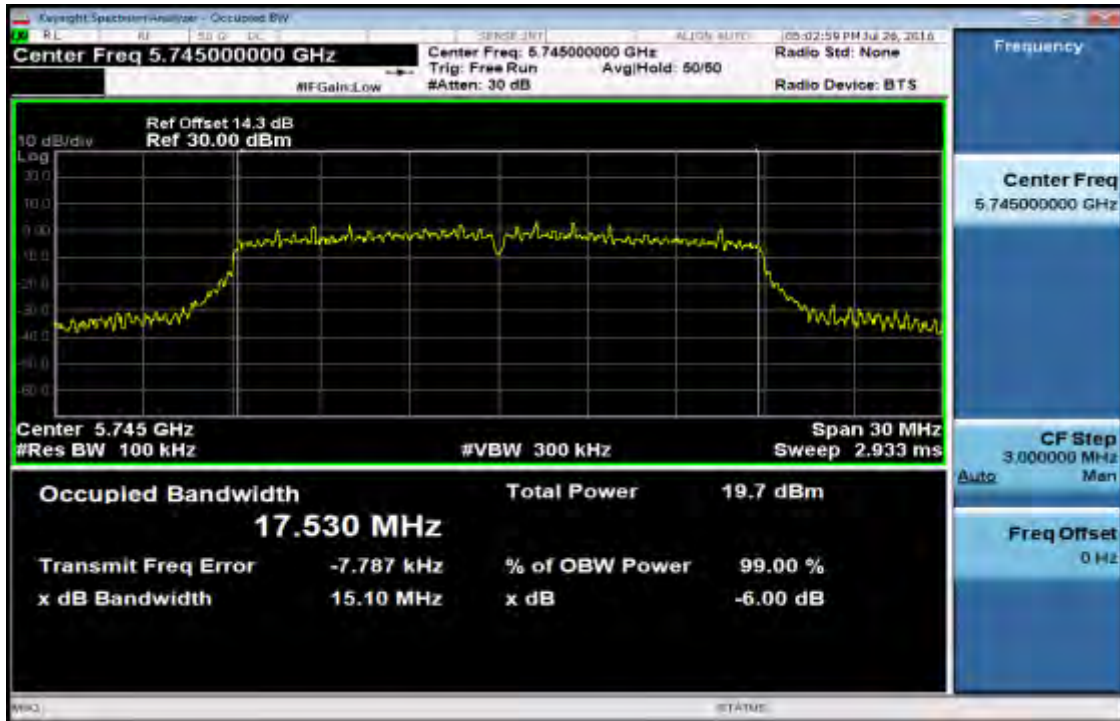
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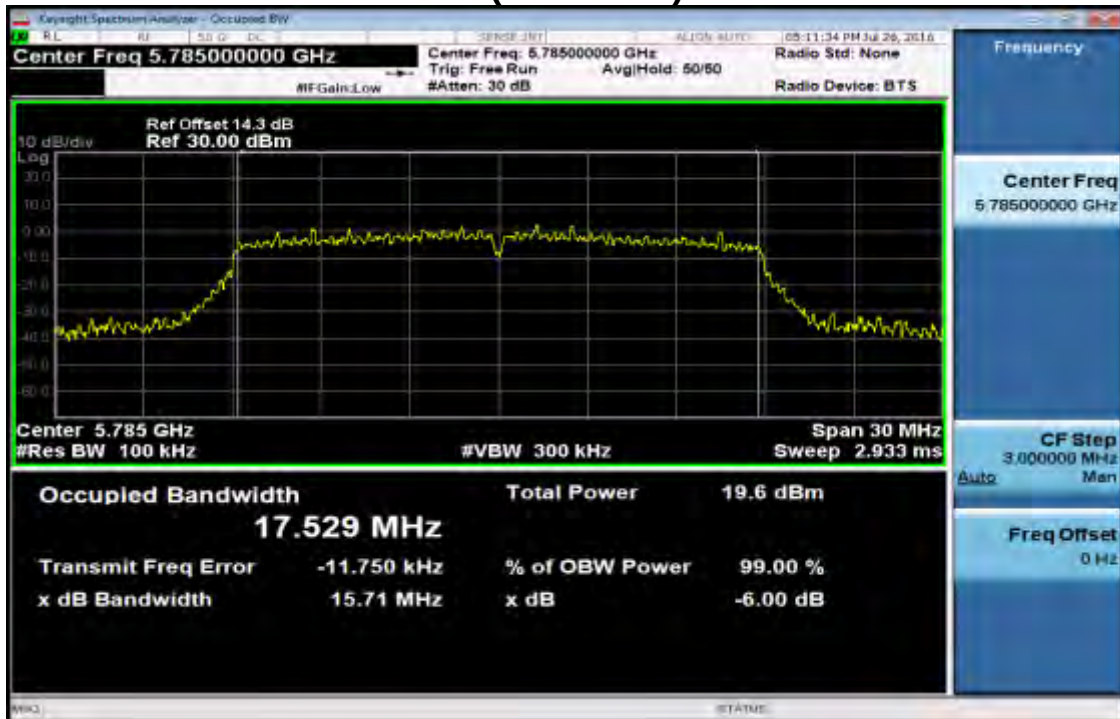
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802.11n_HT20, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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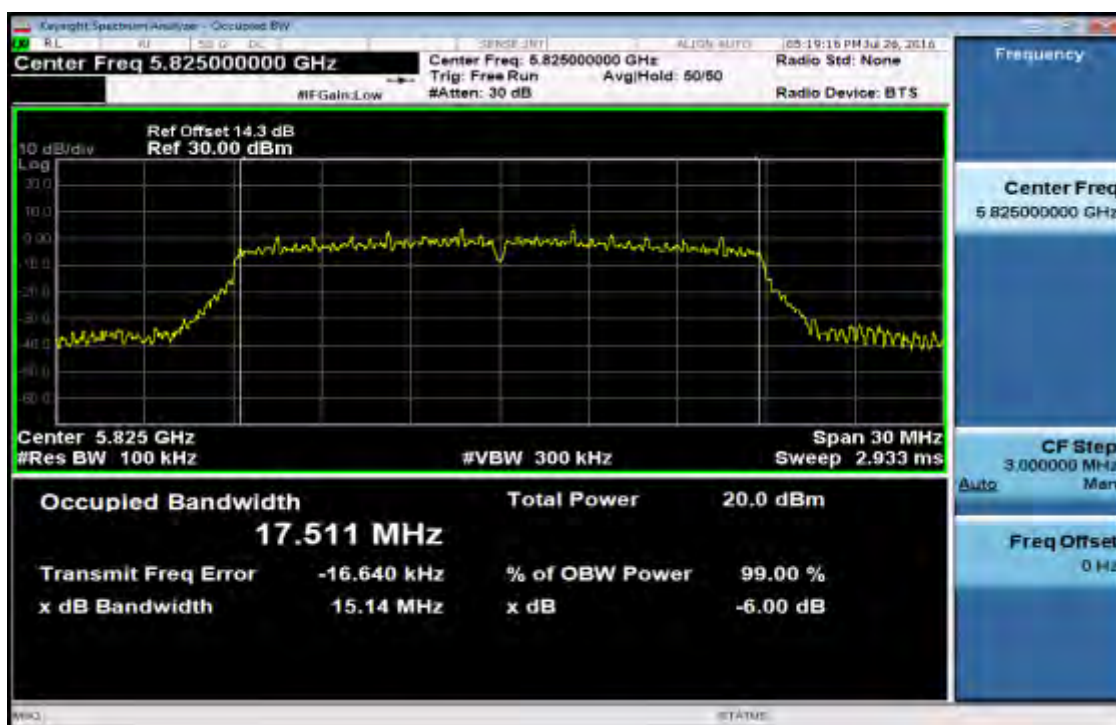
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6dB Band Width Test Data CH-High (5825 MHz)



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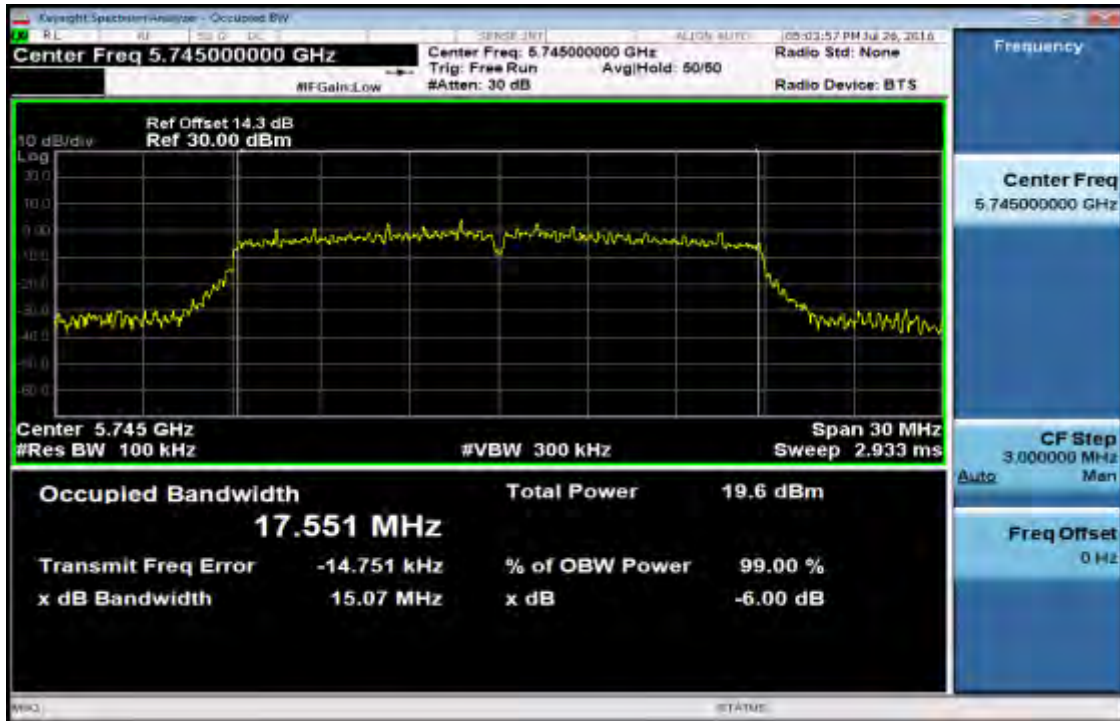
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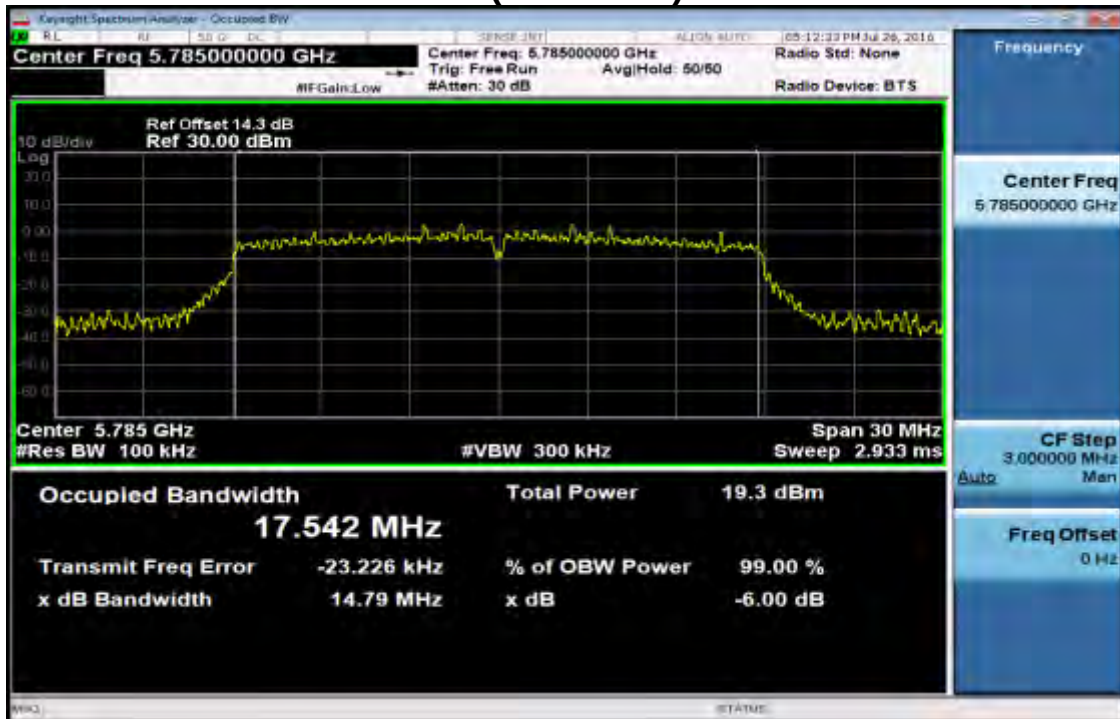
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802.11n_HT20, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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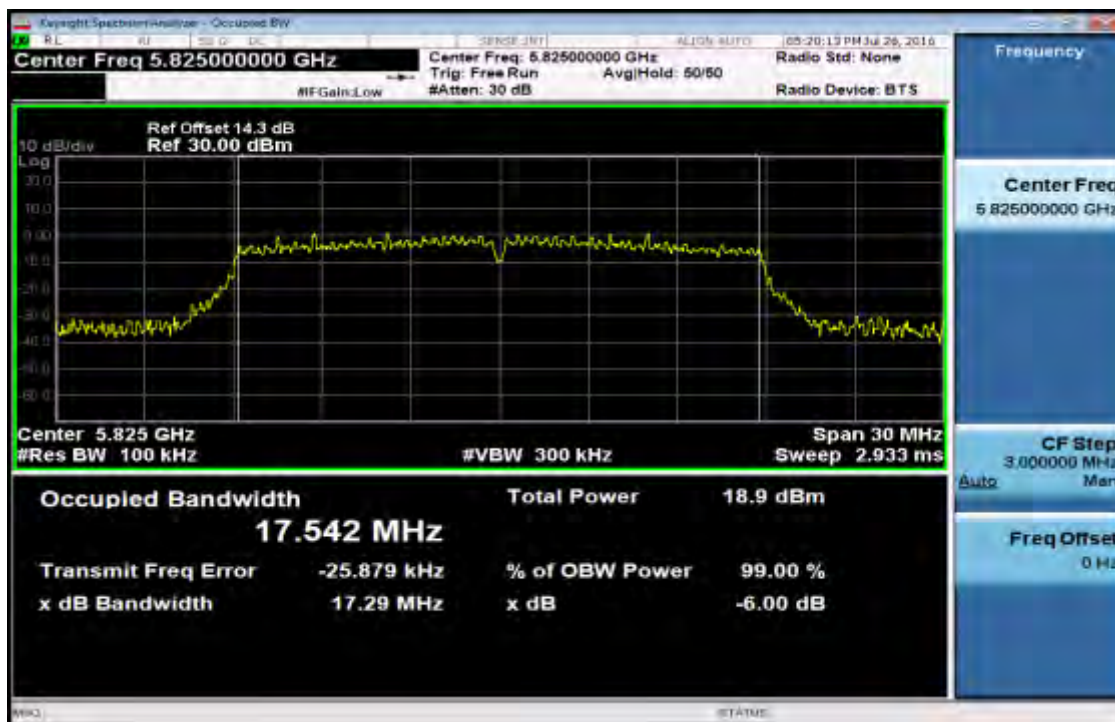
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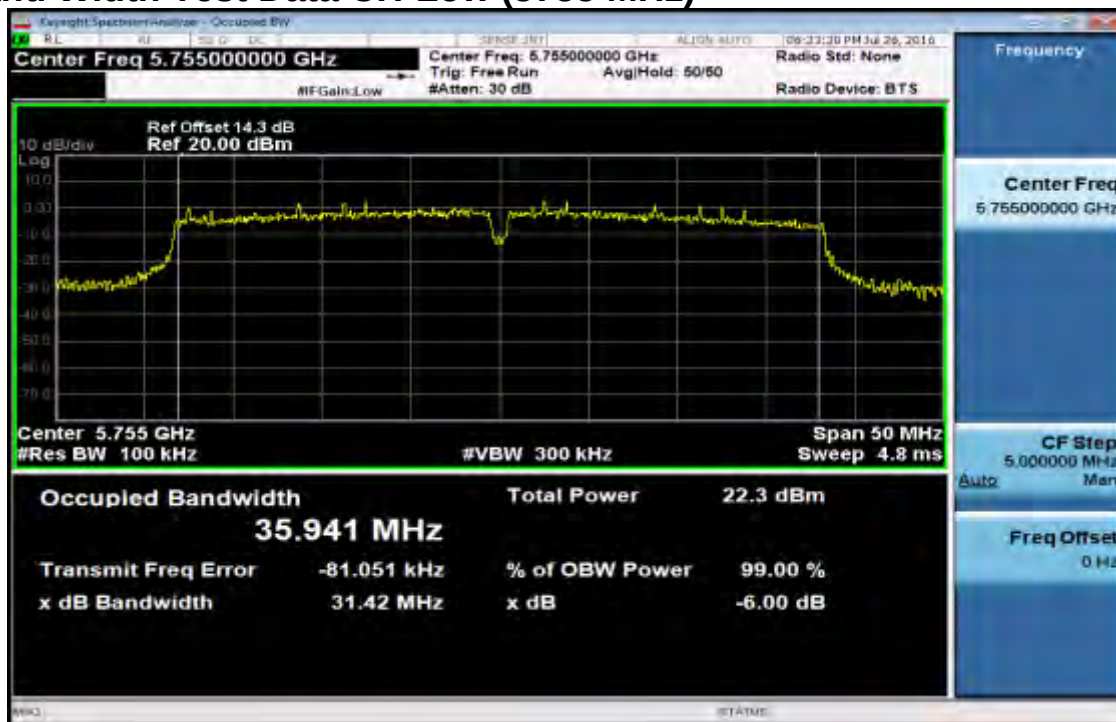
t (886-2) 2299-3279

f (886-2) 2298-0488

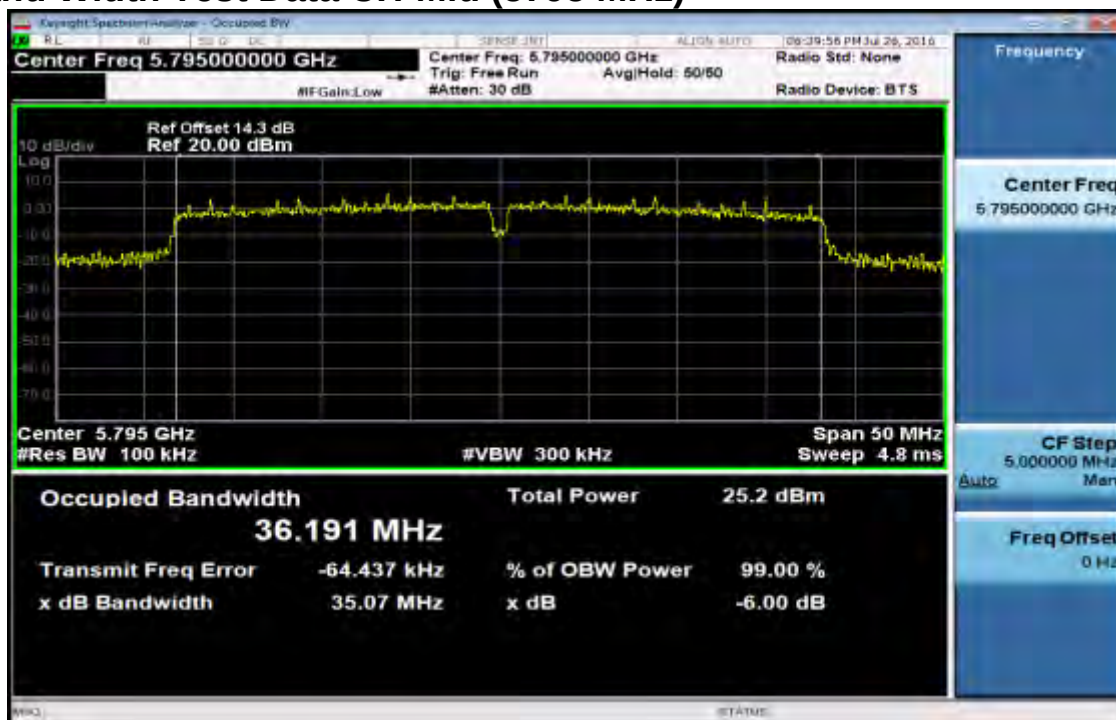
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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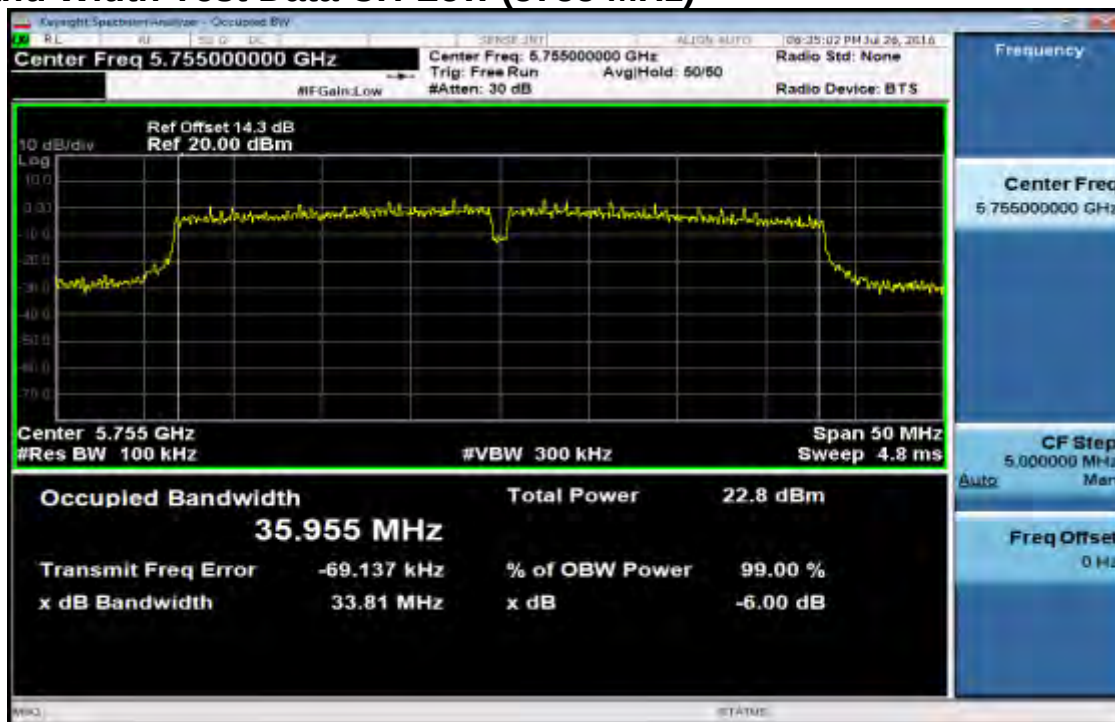
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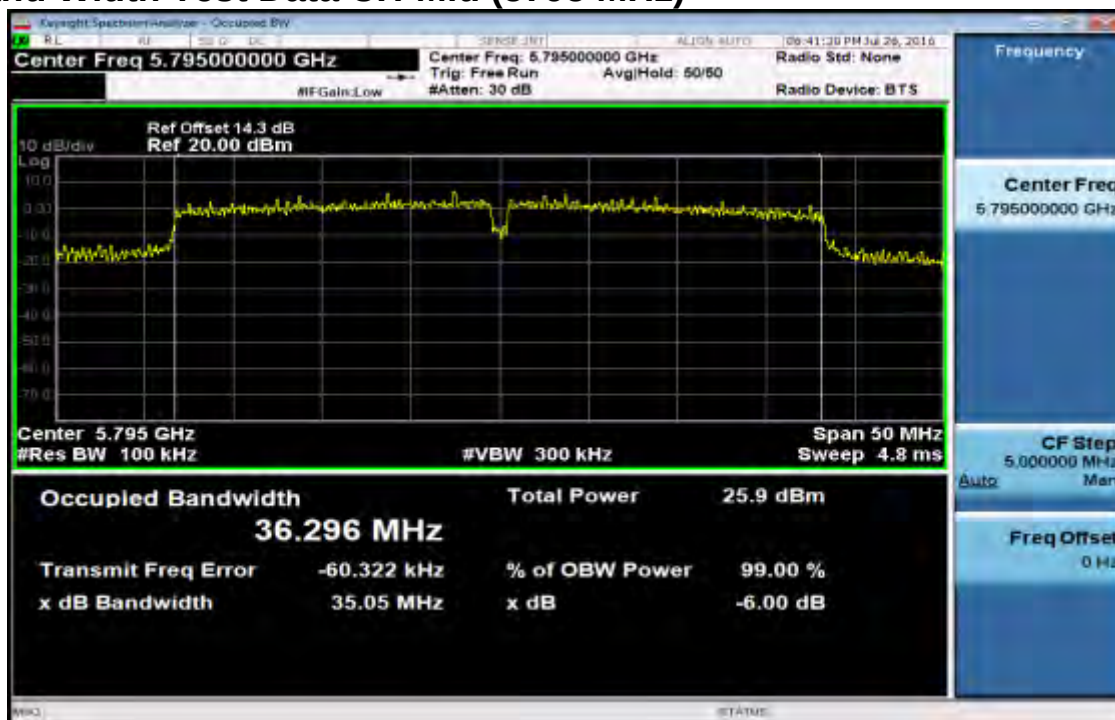
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802.11n_HT40, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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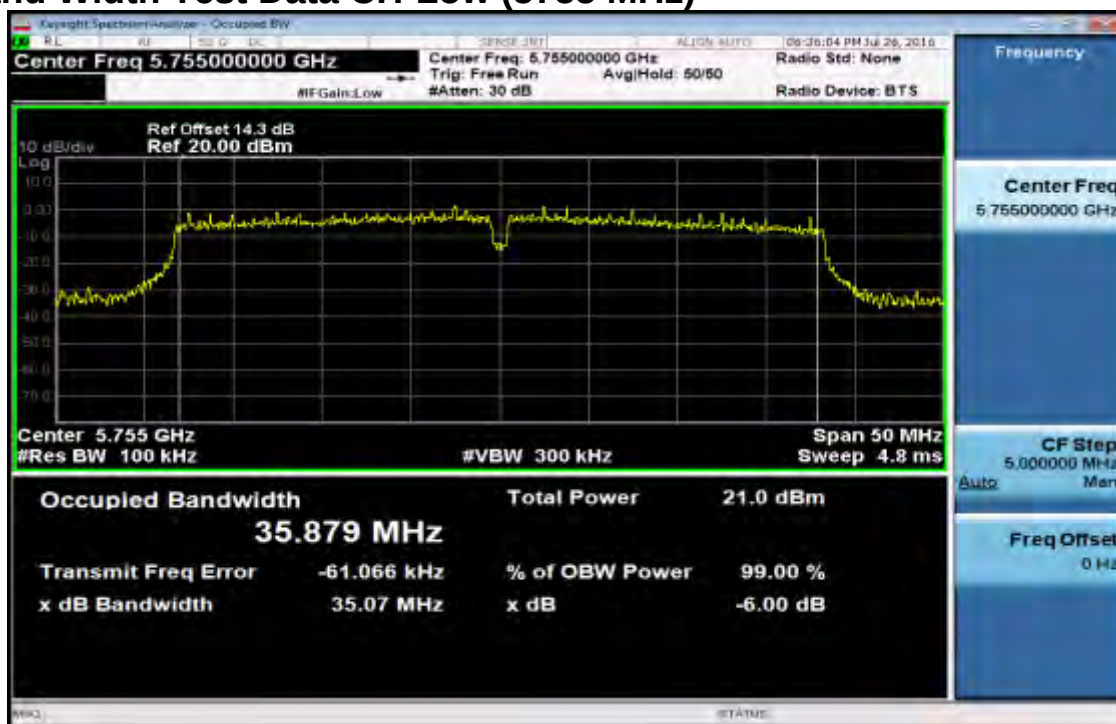
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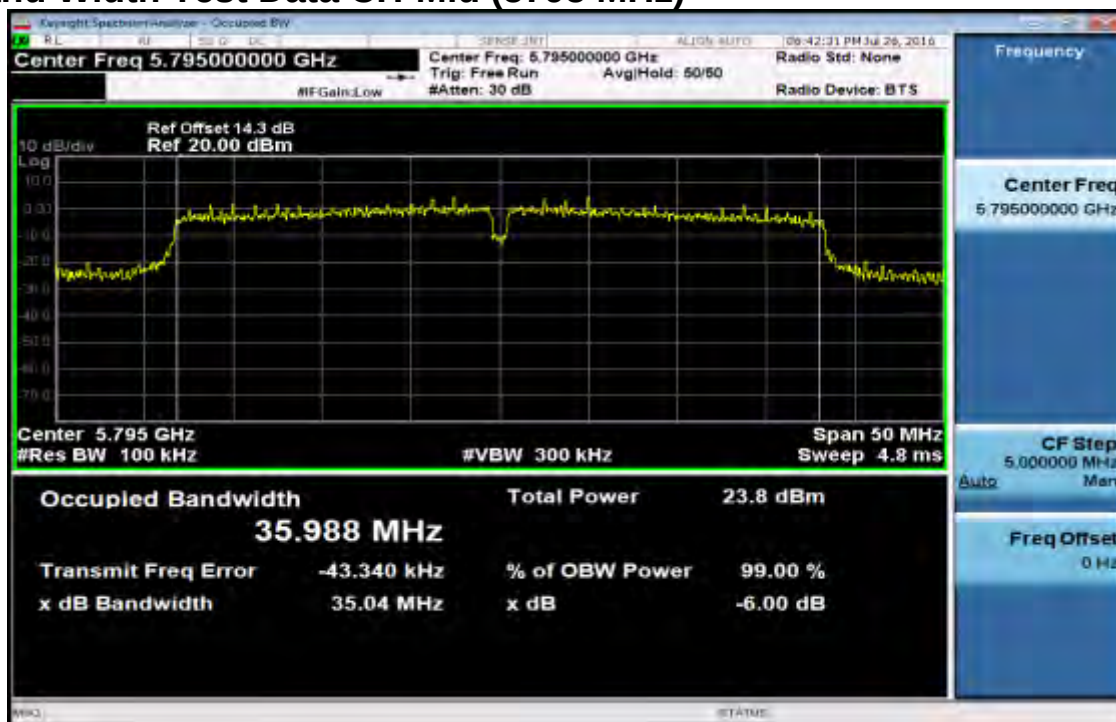
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802.11n_HT40, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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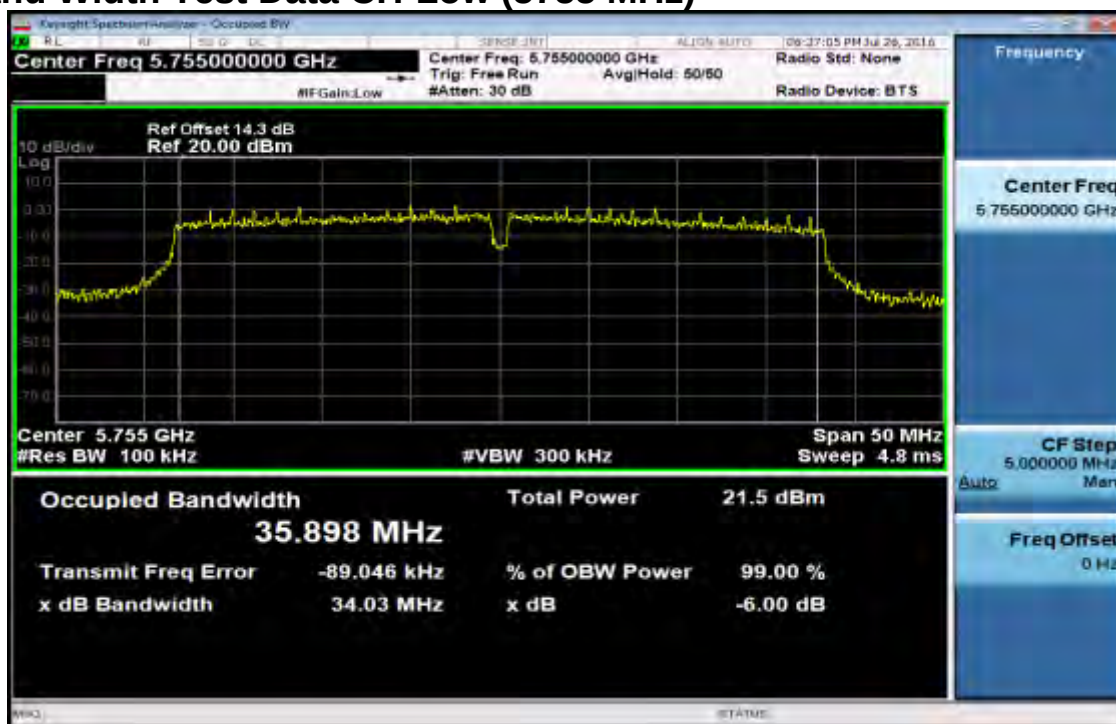
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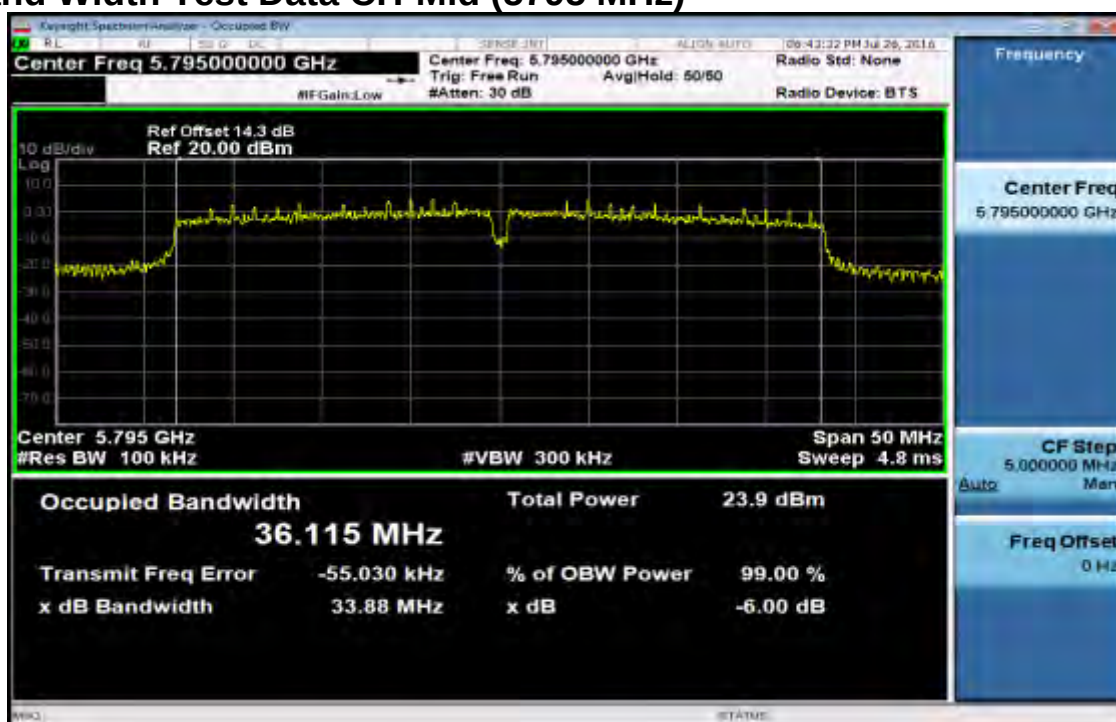
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802.11n_HT40, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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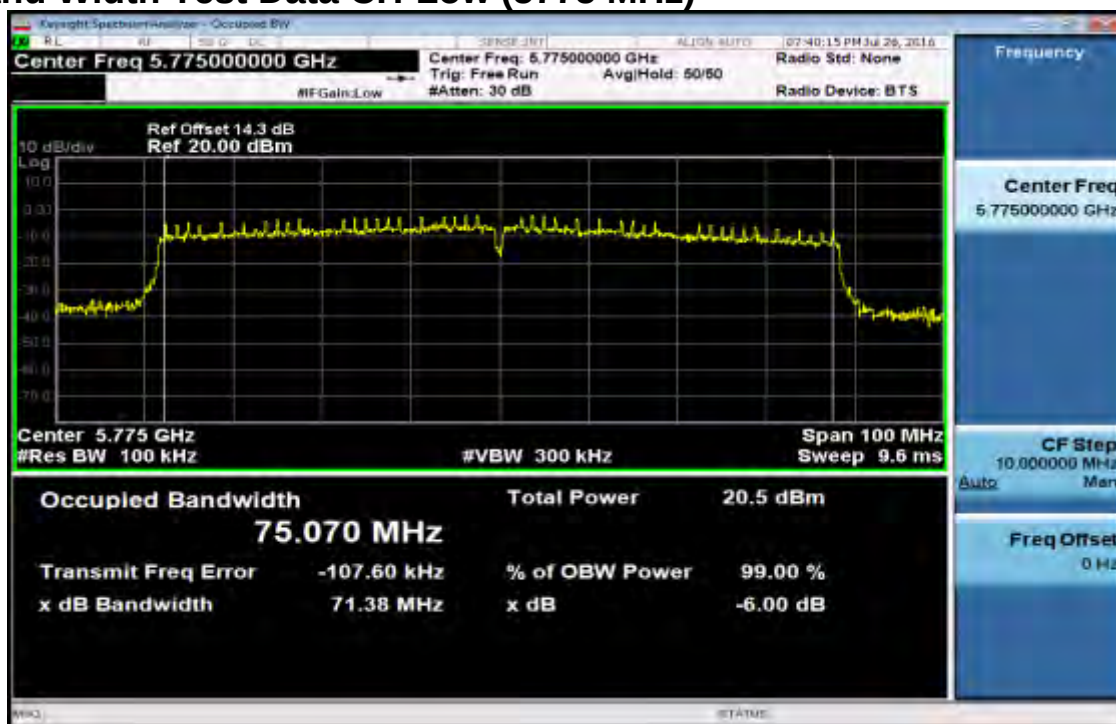
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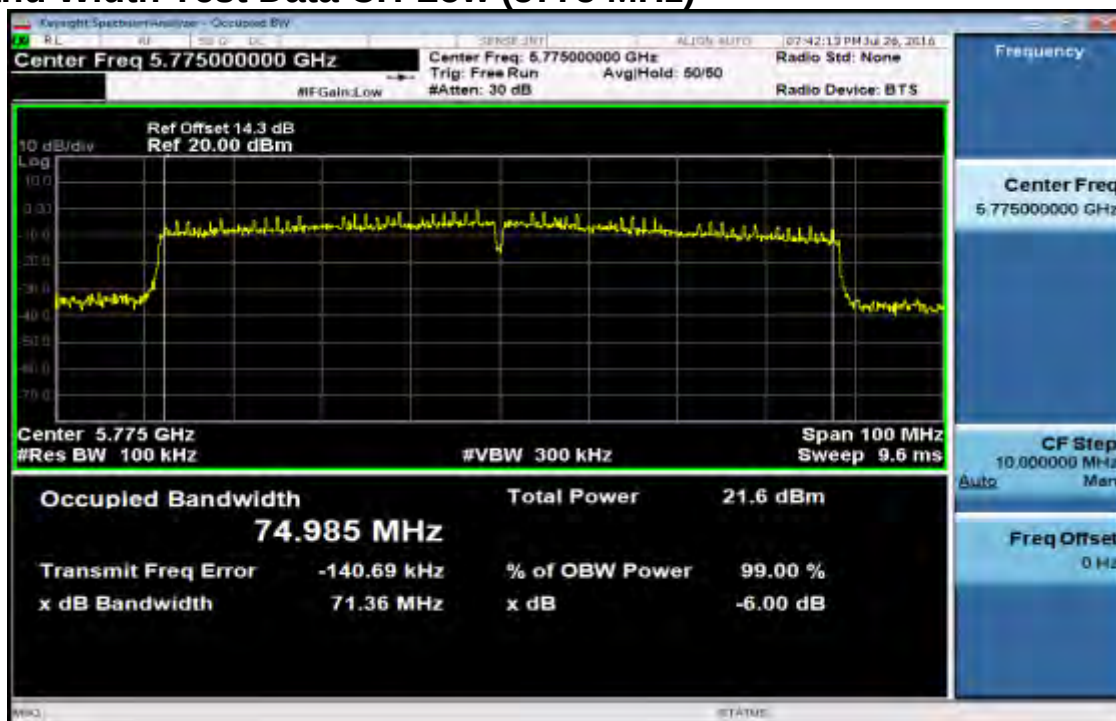
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5775 MHz)



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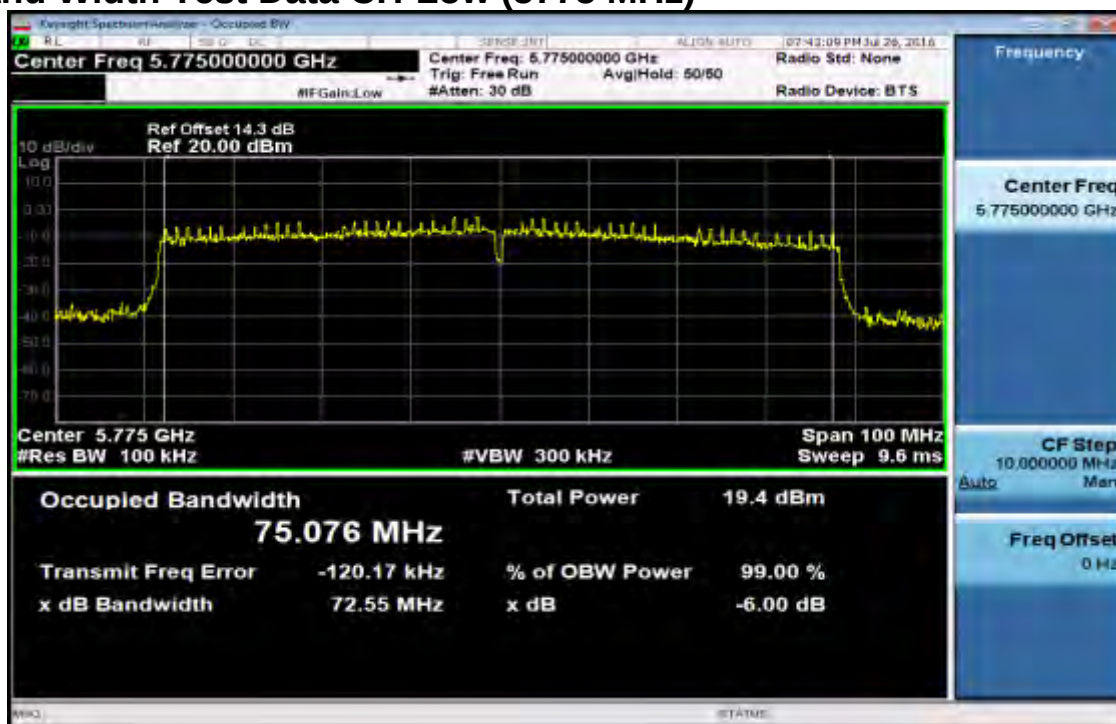
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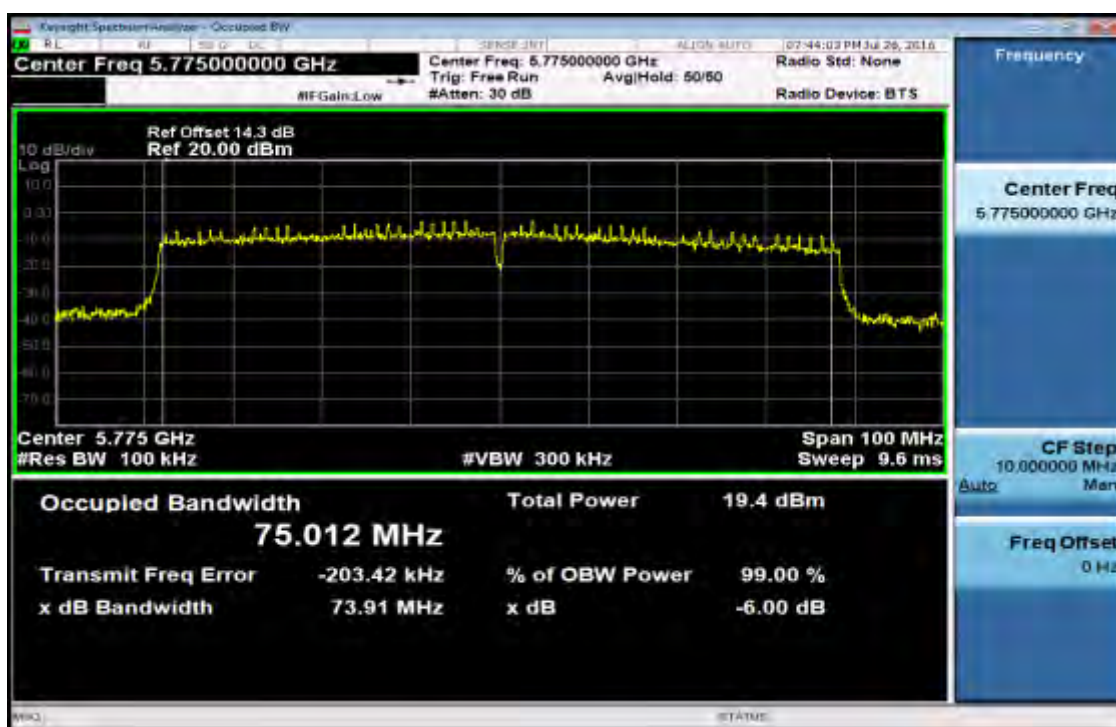
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802.11ac VHT80, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5775 MHz)



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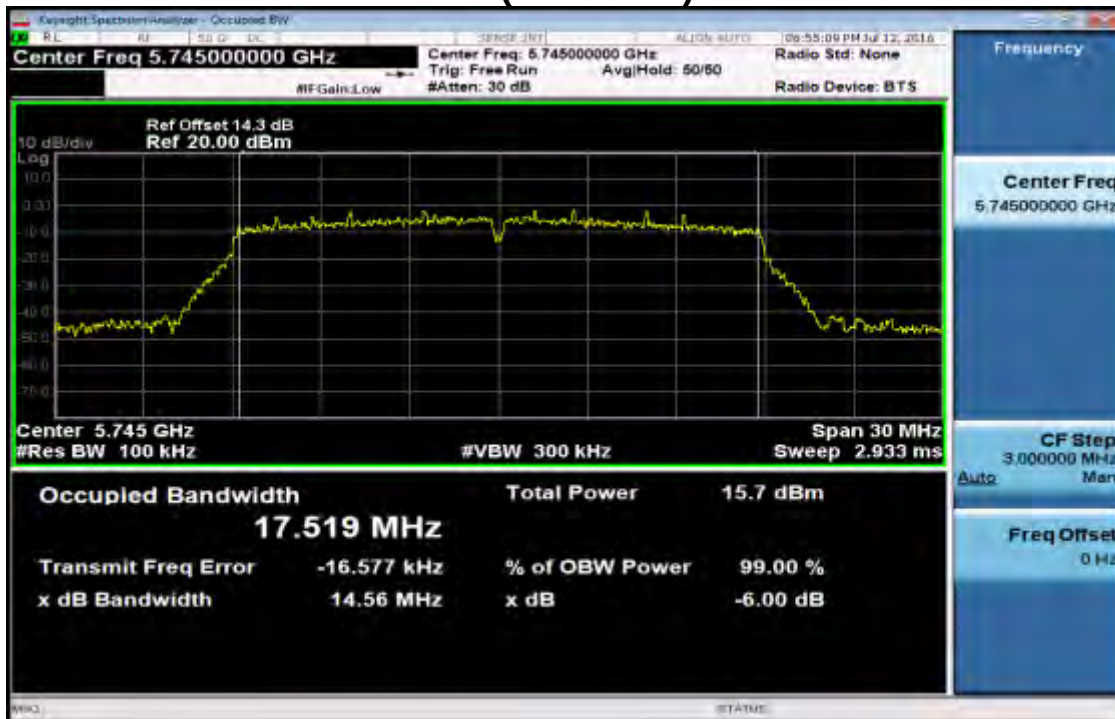
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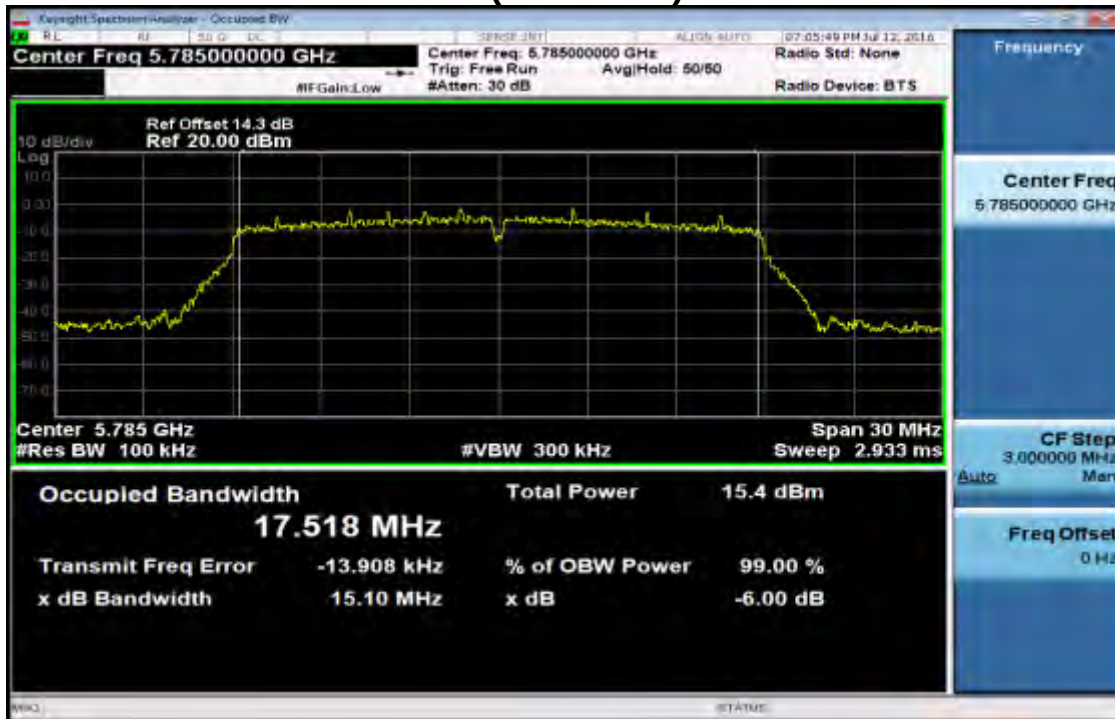
Beam Forming Mode:

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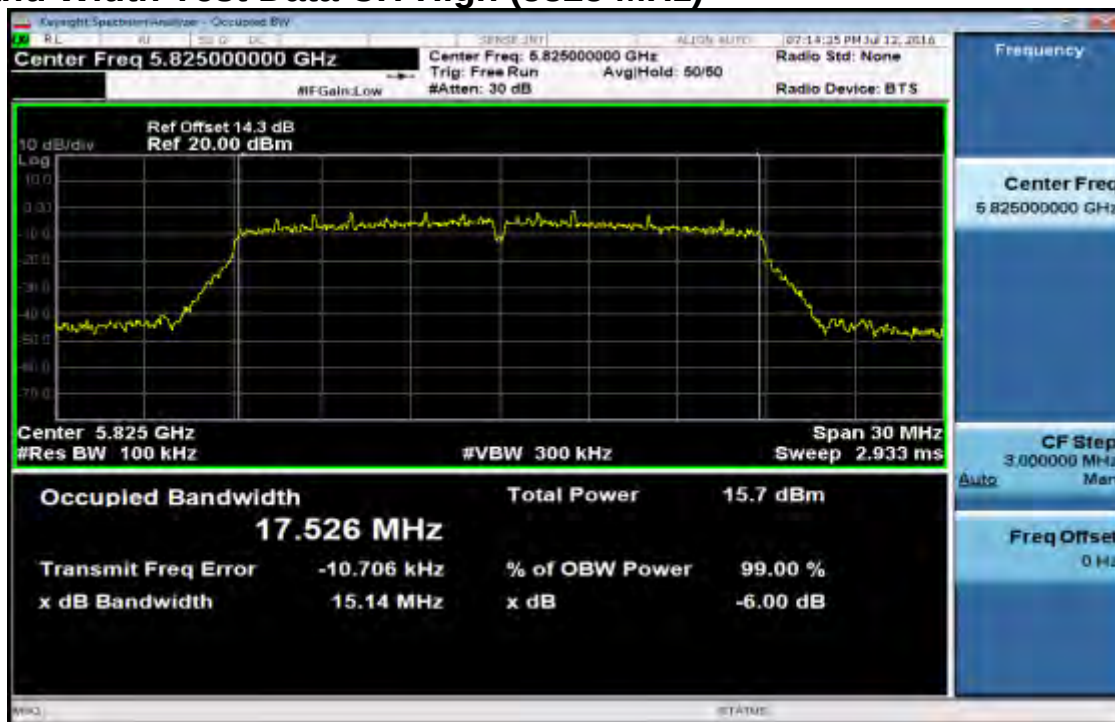
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6dB Band Width Test Data CH-High (5825 MHz)



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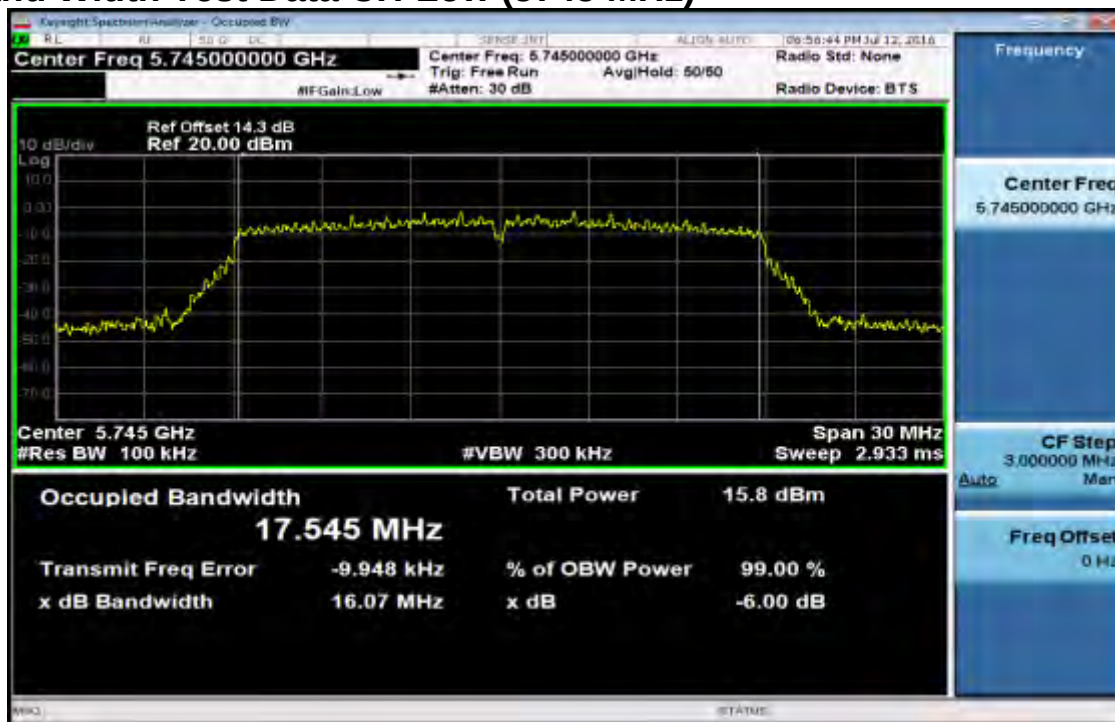
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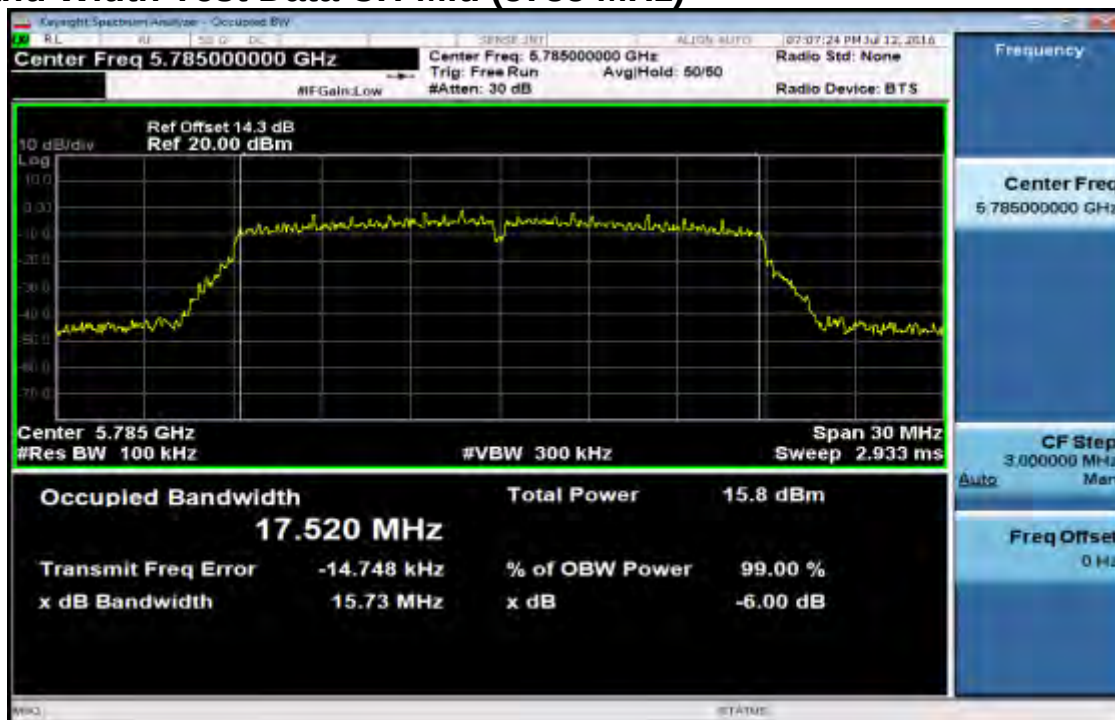
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802.11n_HT20, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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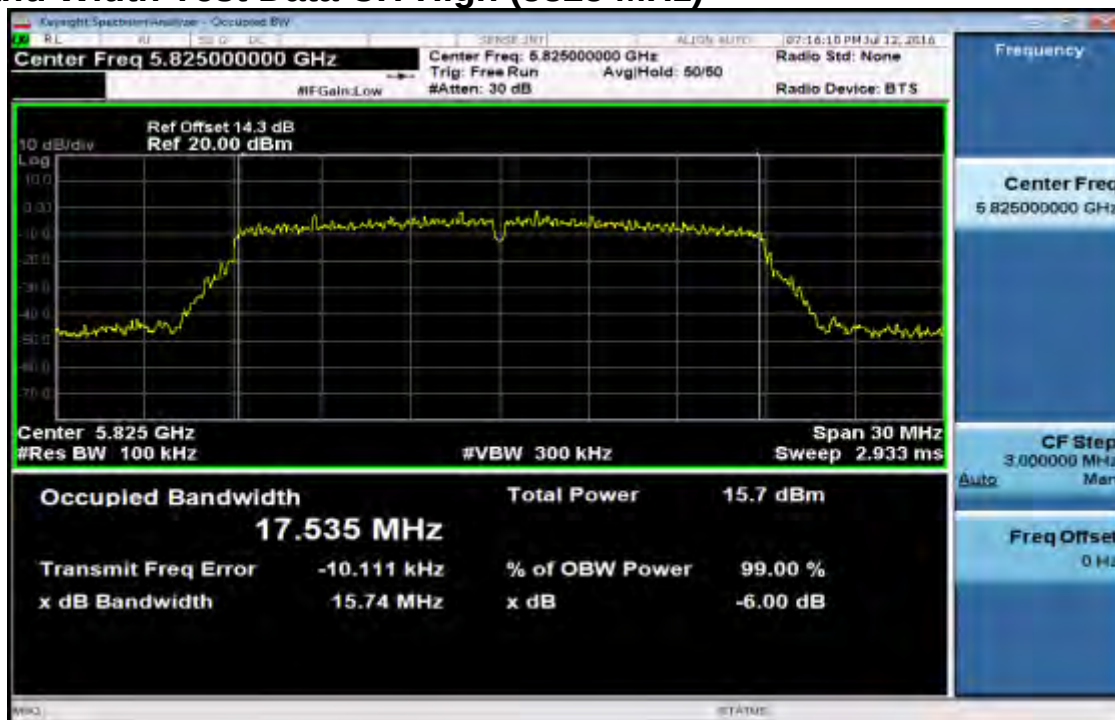
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6dB Band Width Test Data CH-High (5825 MHz)



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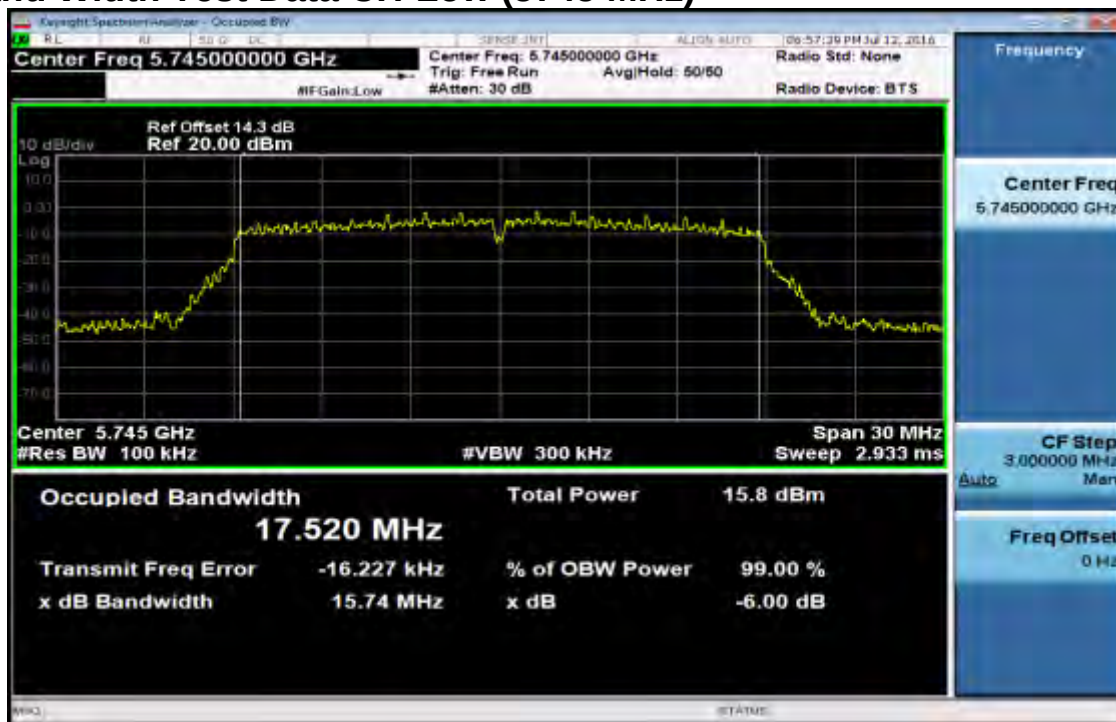
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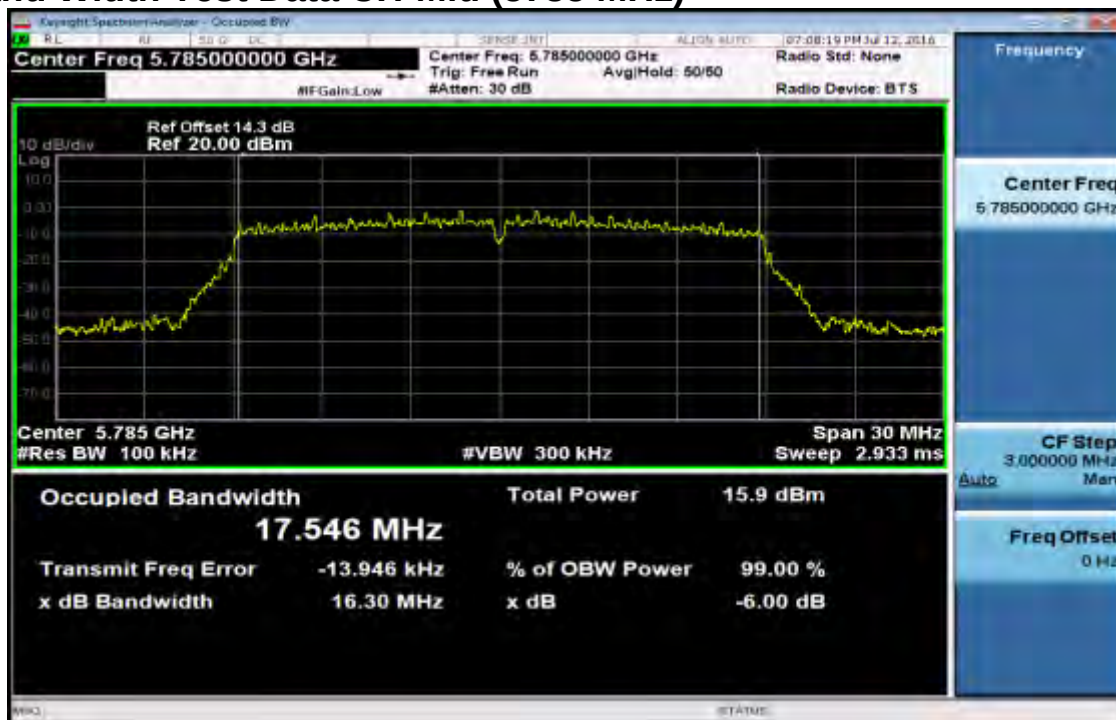
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802.11n_HT20, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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



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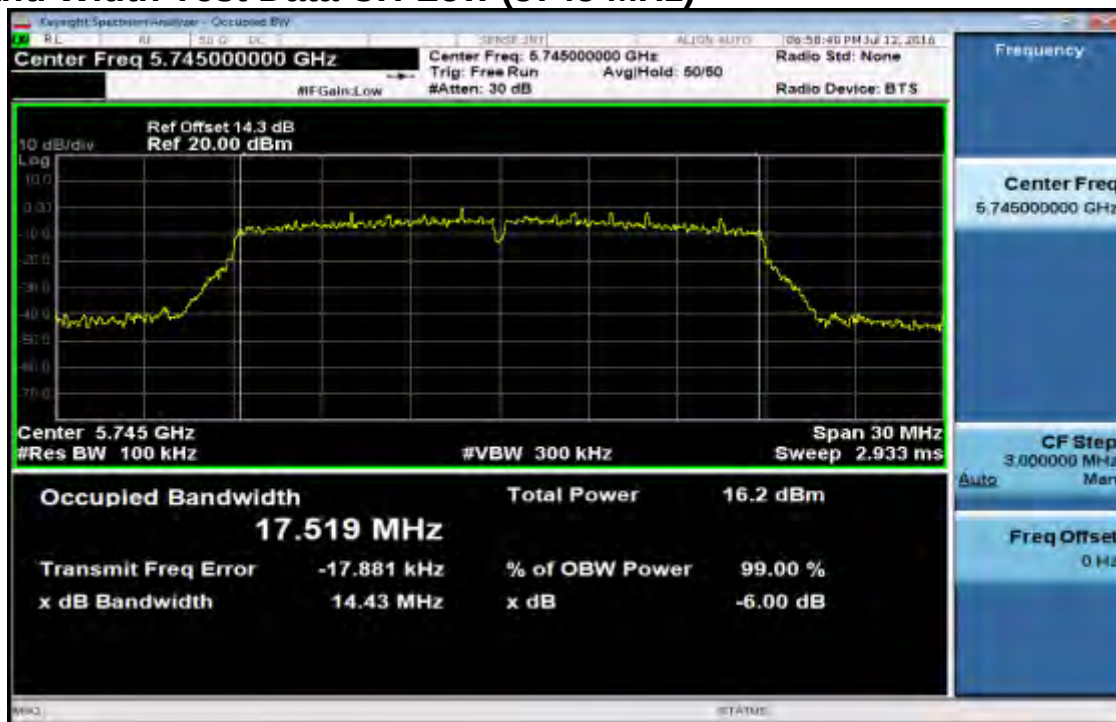
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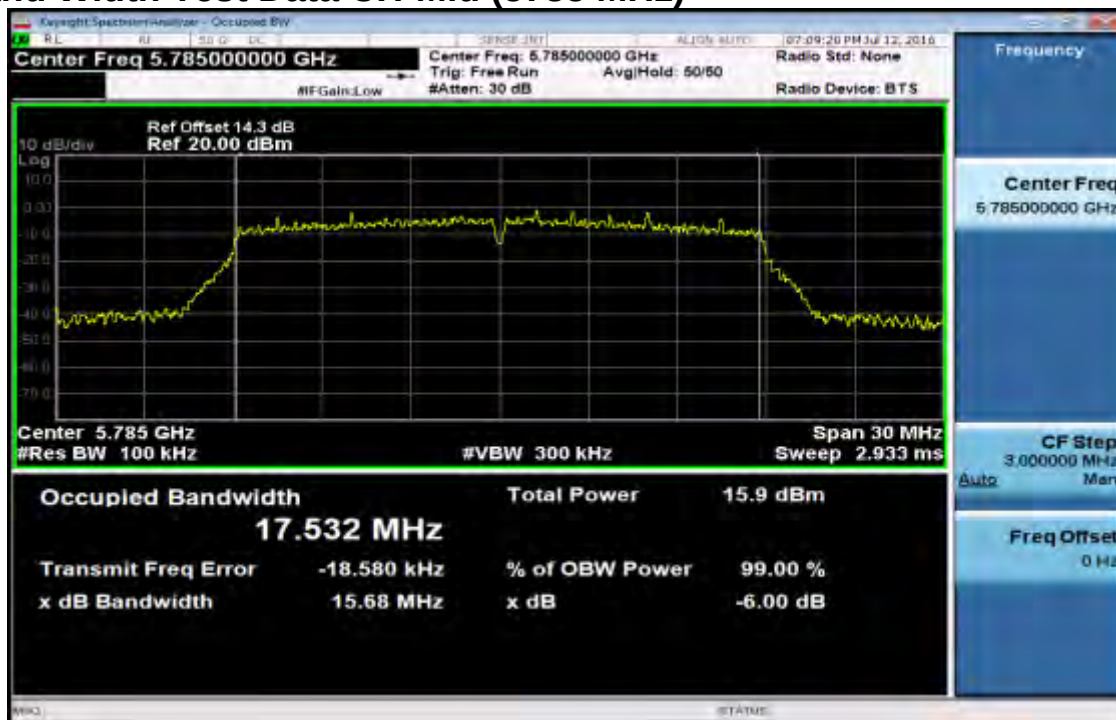
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802.11n_HT20, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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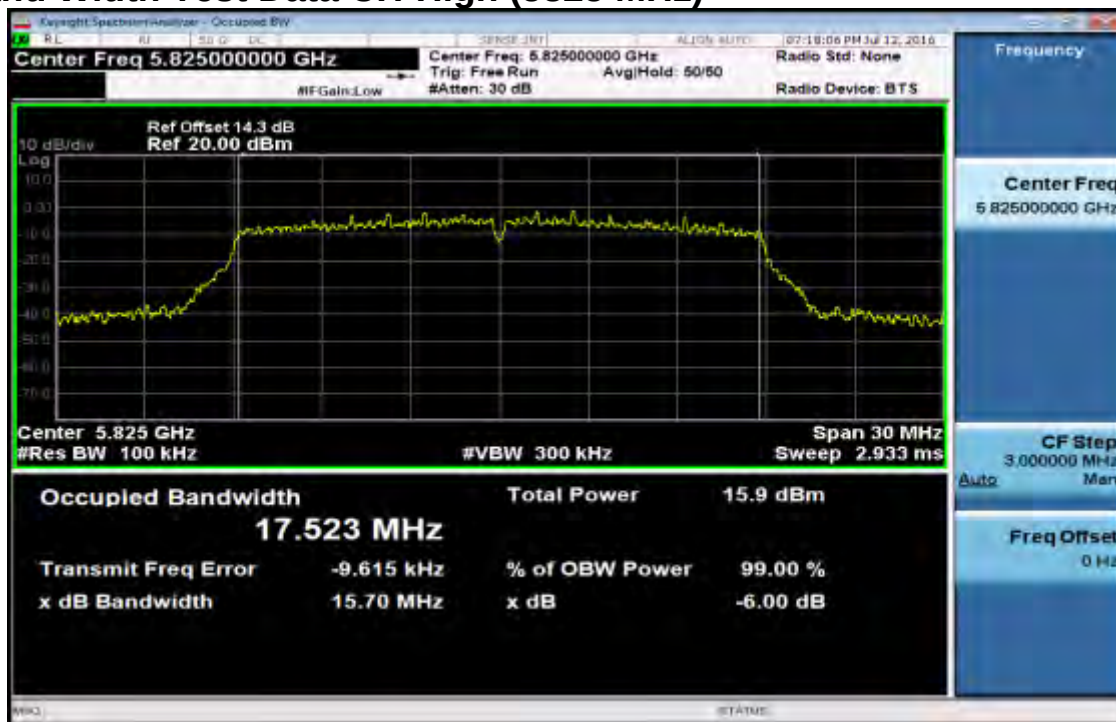
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6dB Band Width Test Data CH-High (5825 MHz)



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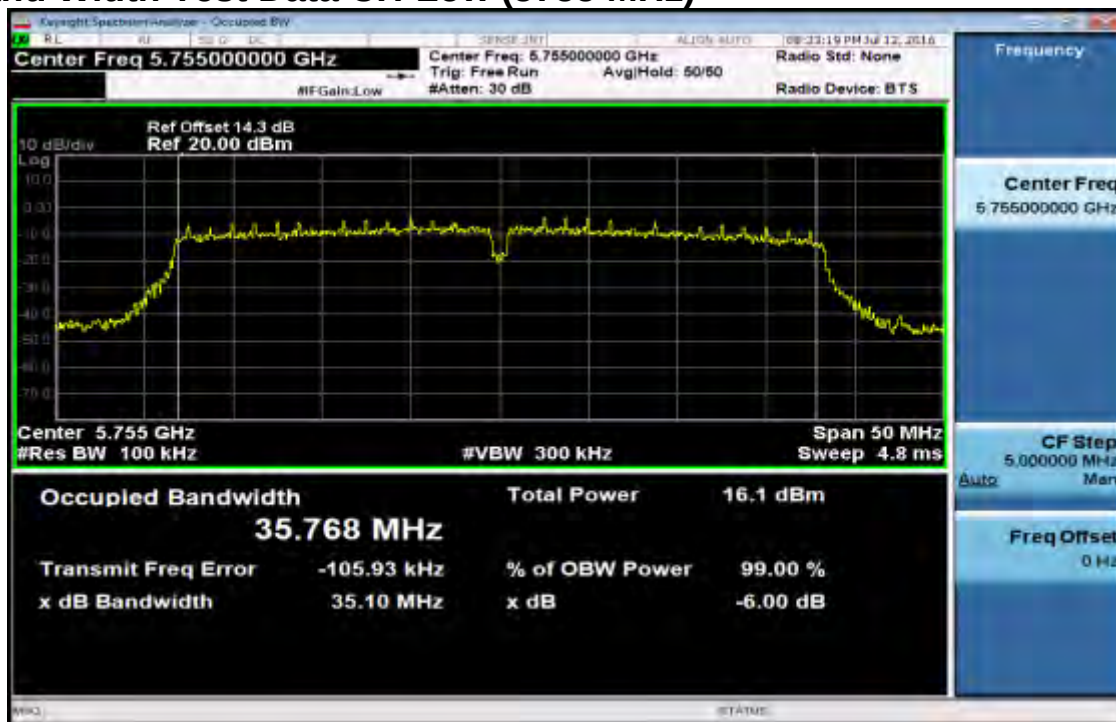
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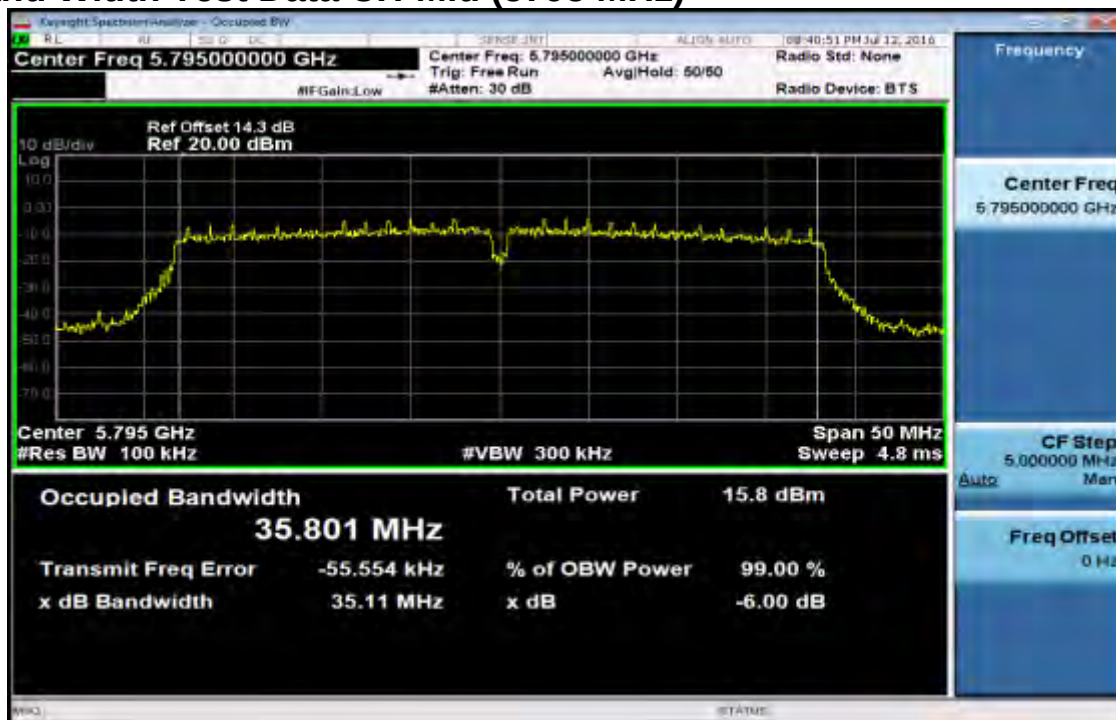
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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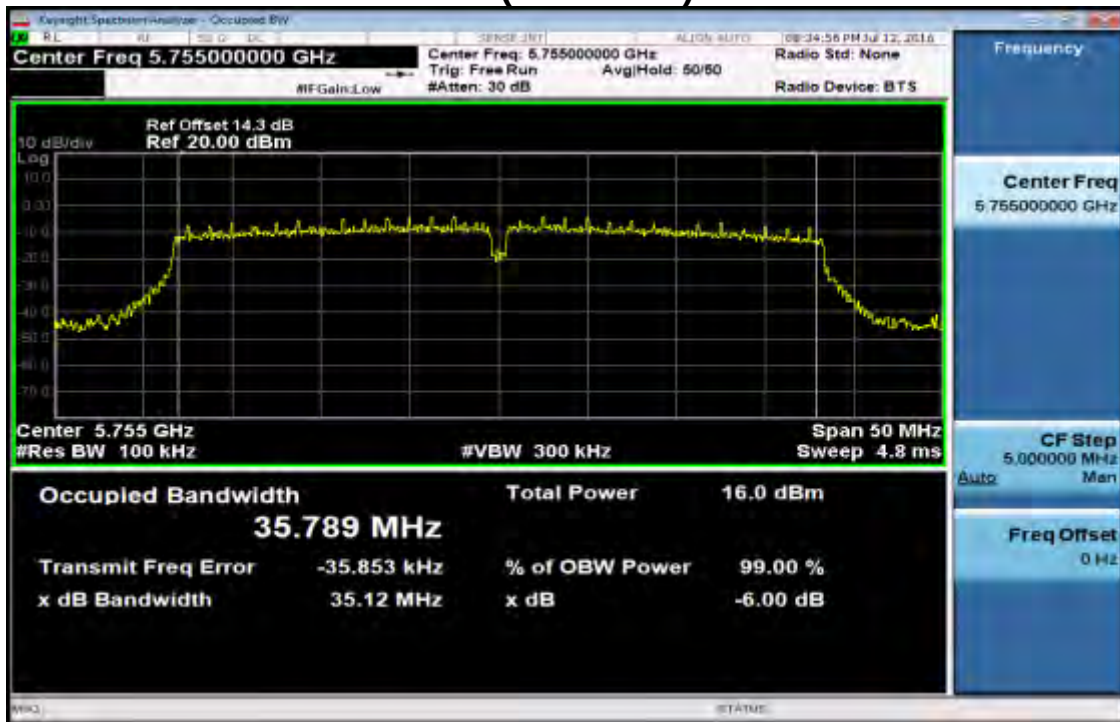
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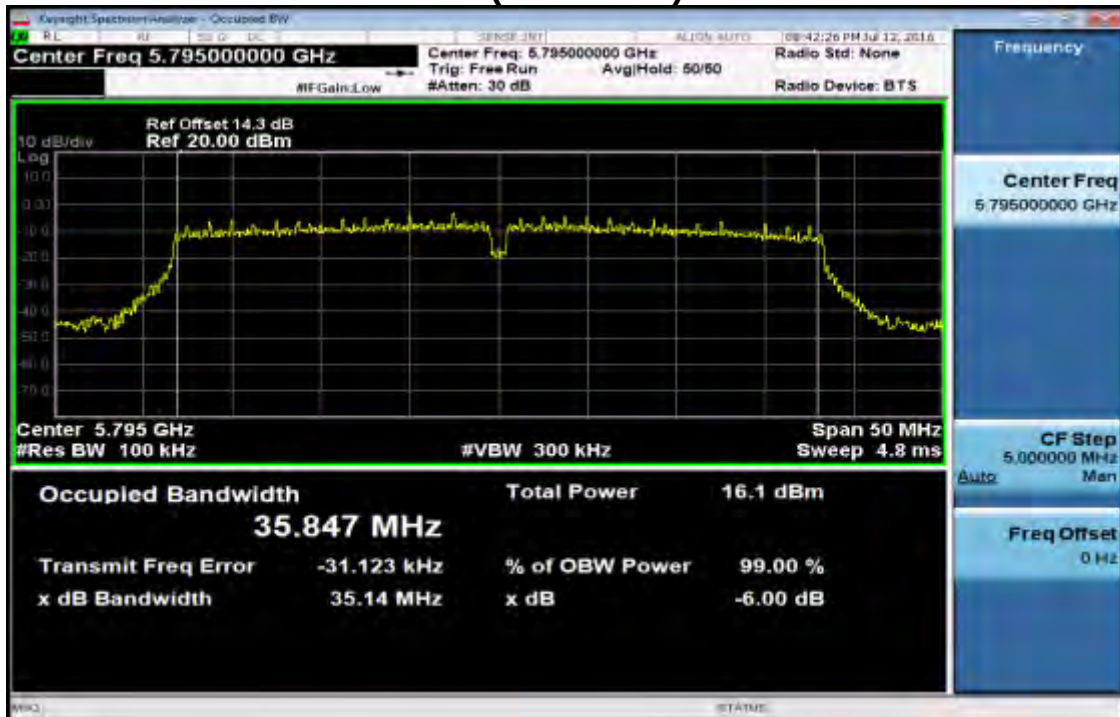
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802.11n_HT40, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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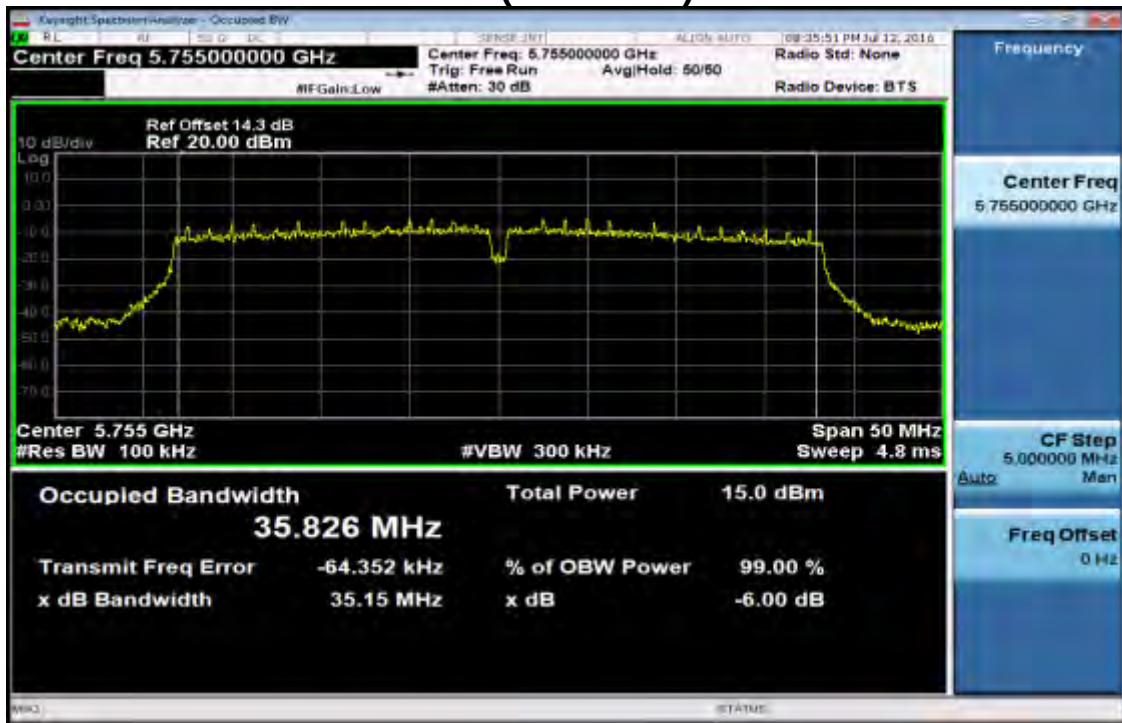
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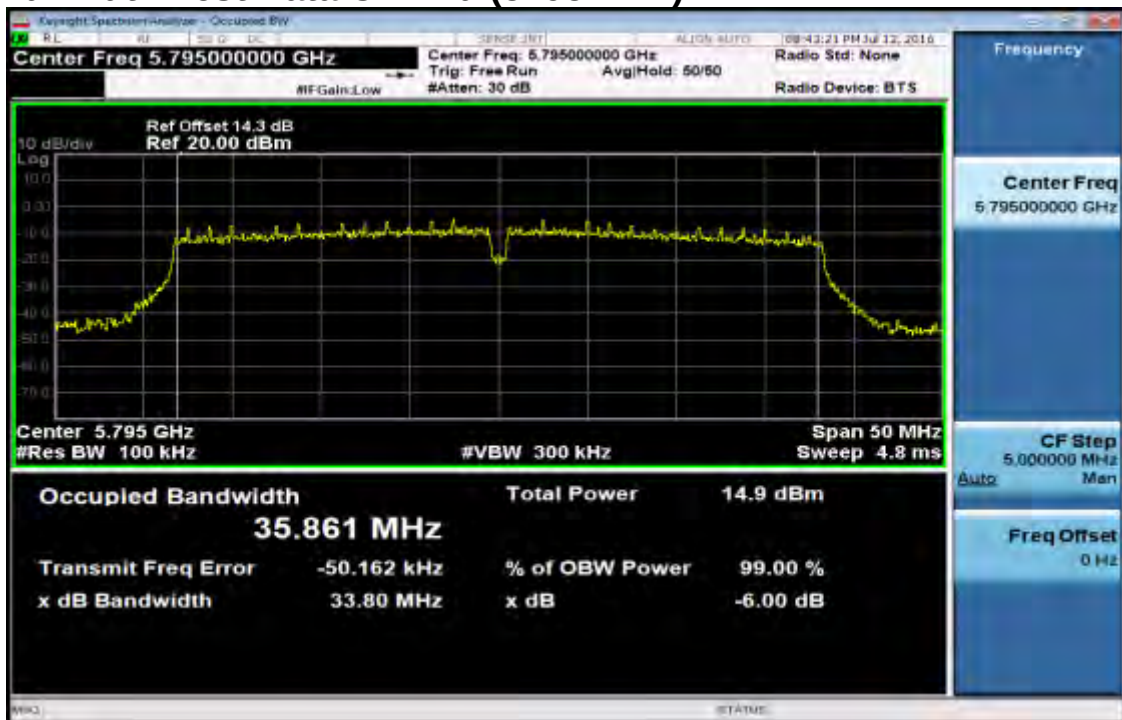
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802.11n_HT40, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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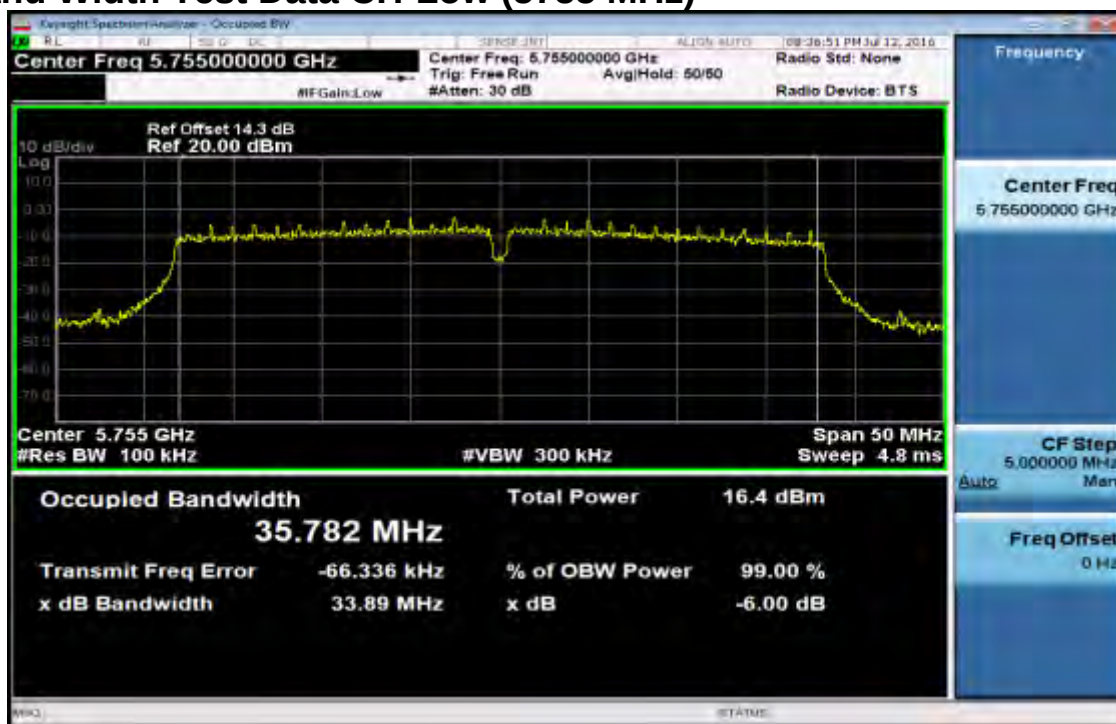
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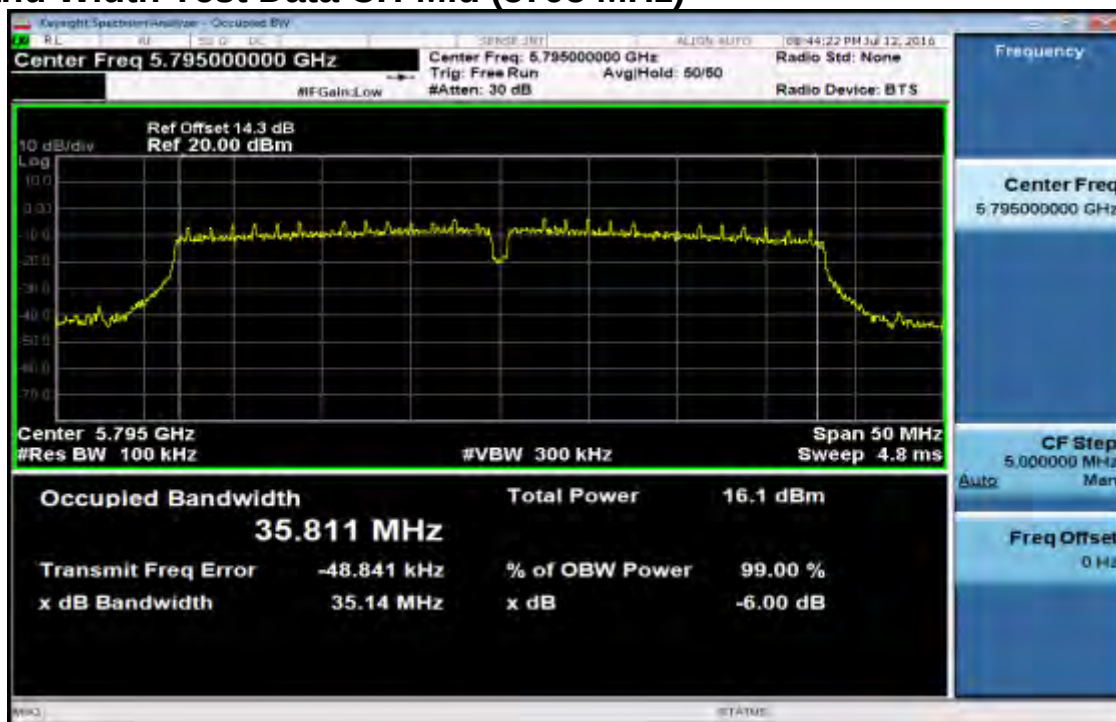
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802.11n_HT40, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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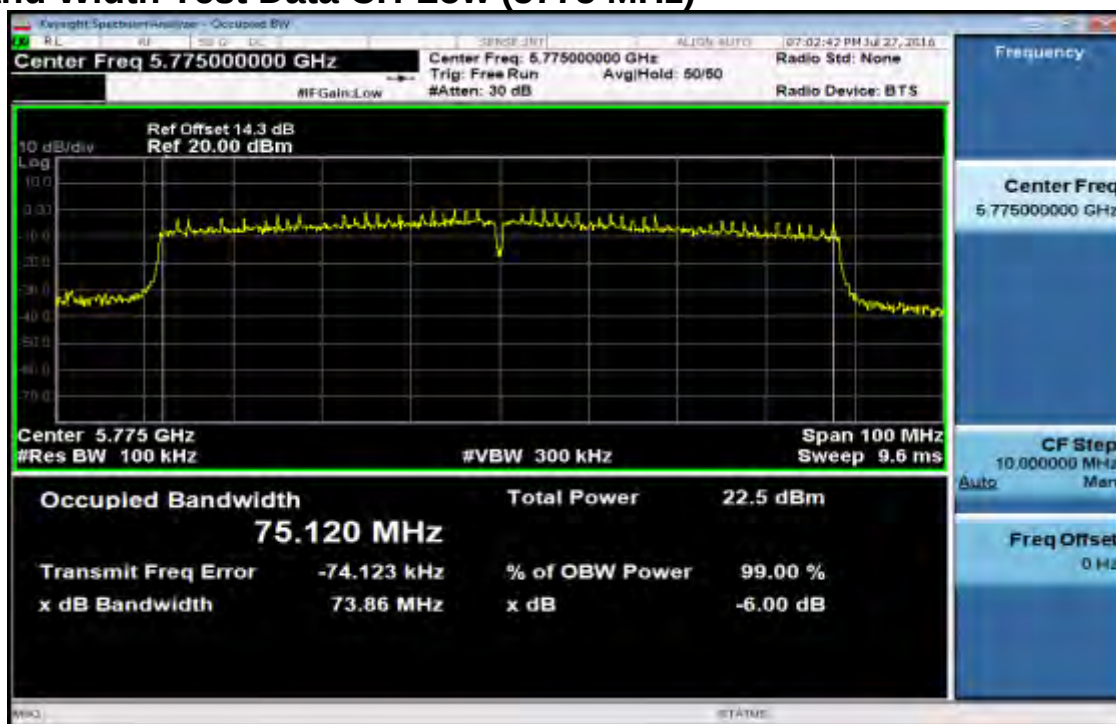
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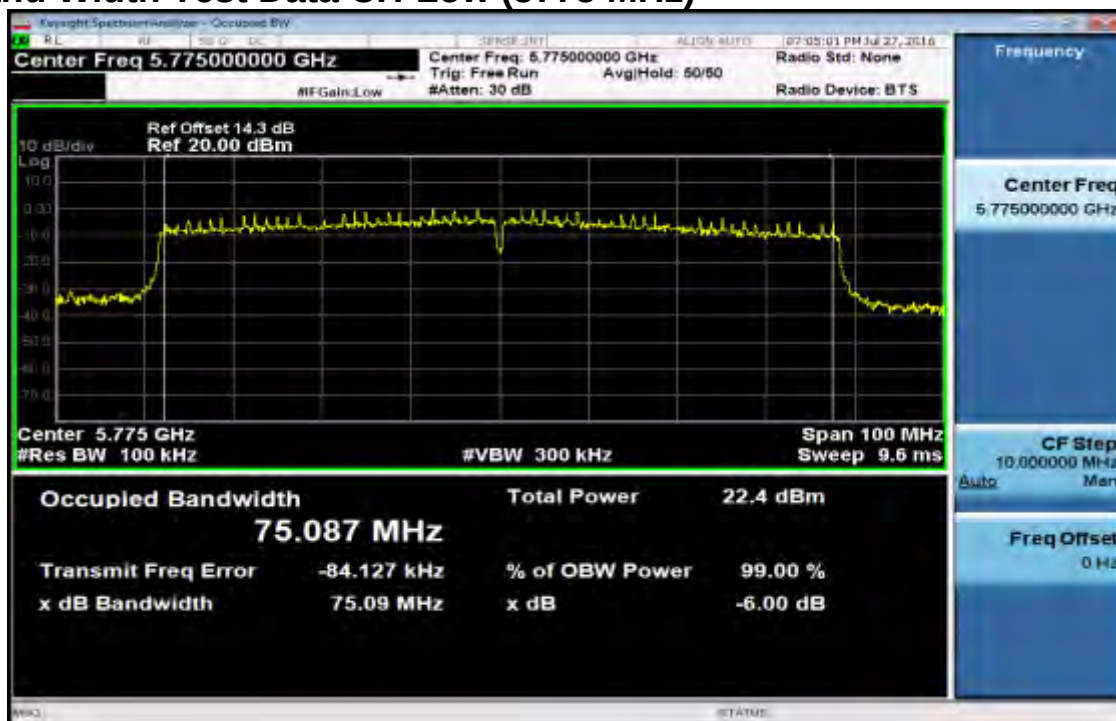
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5775 MHz)



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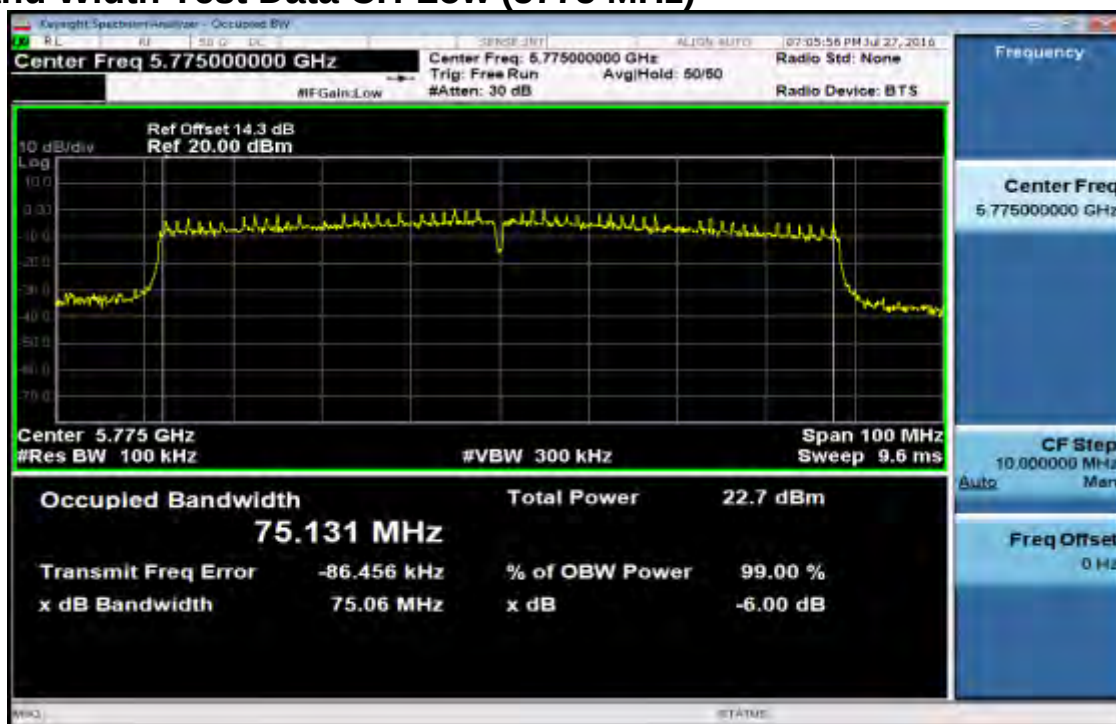
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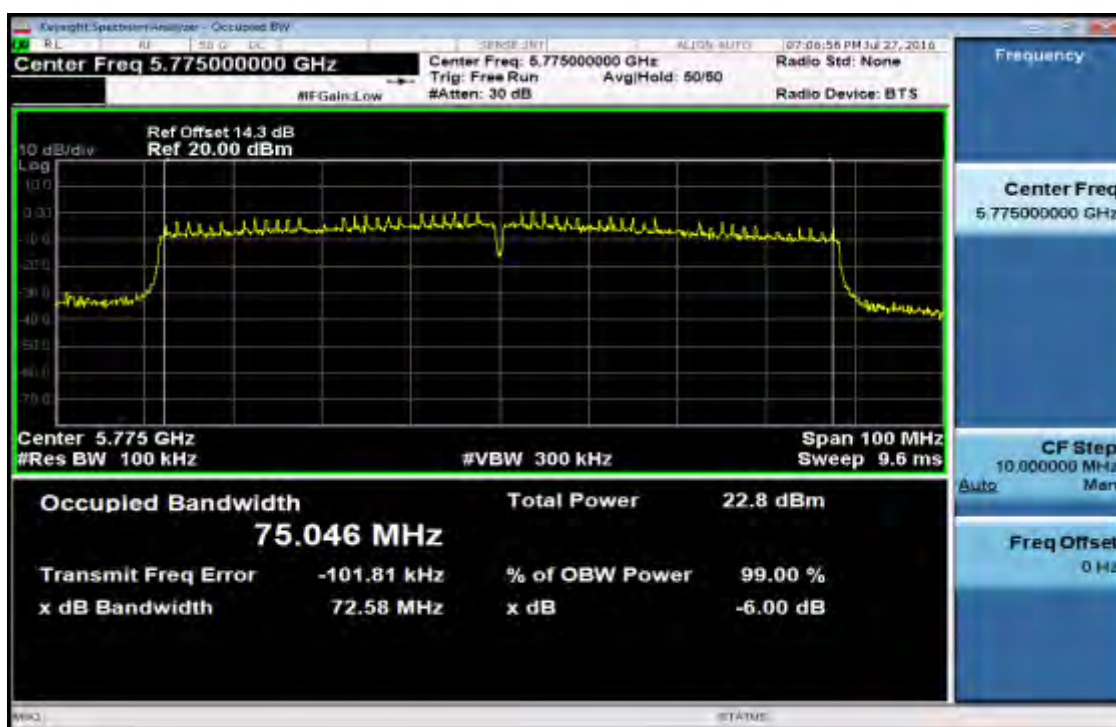
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802.11ac VHT80, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5775 MHz)



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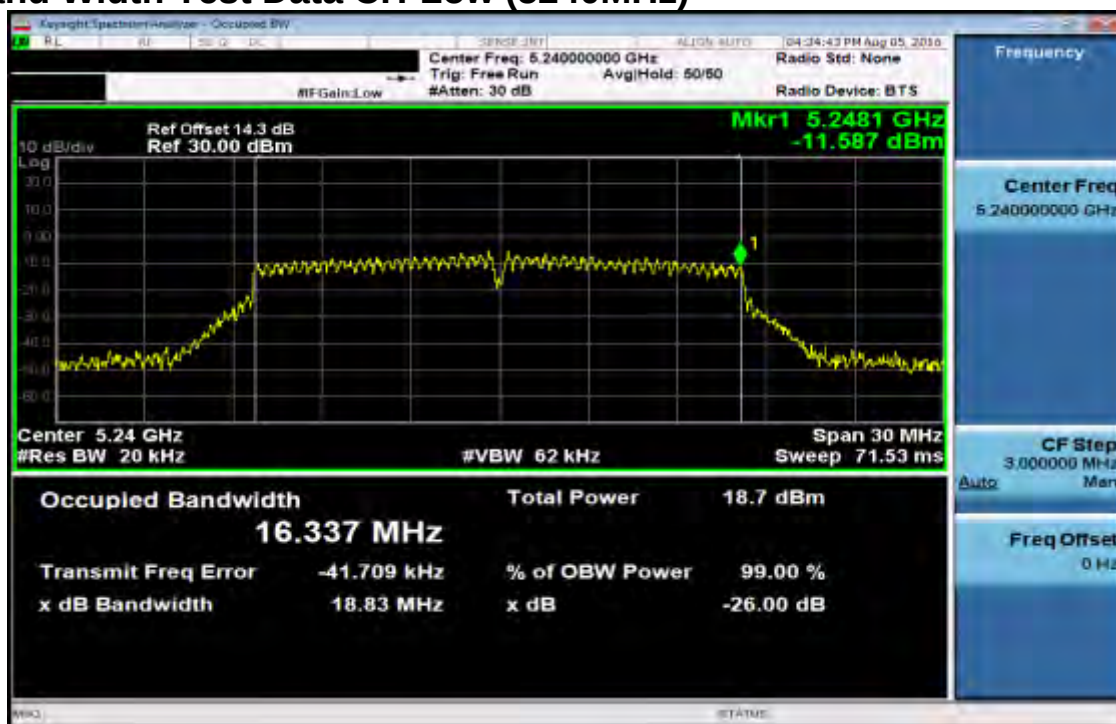
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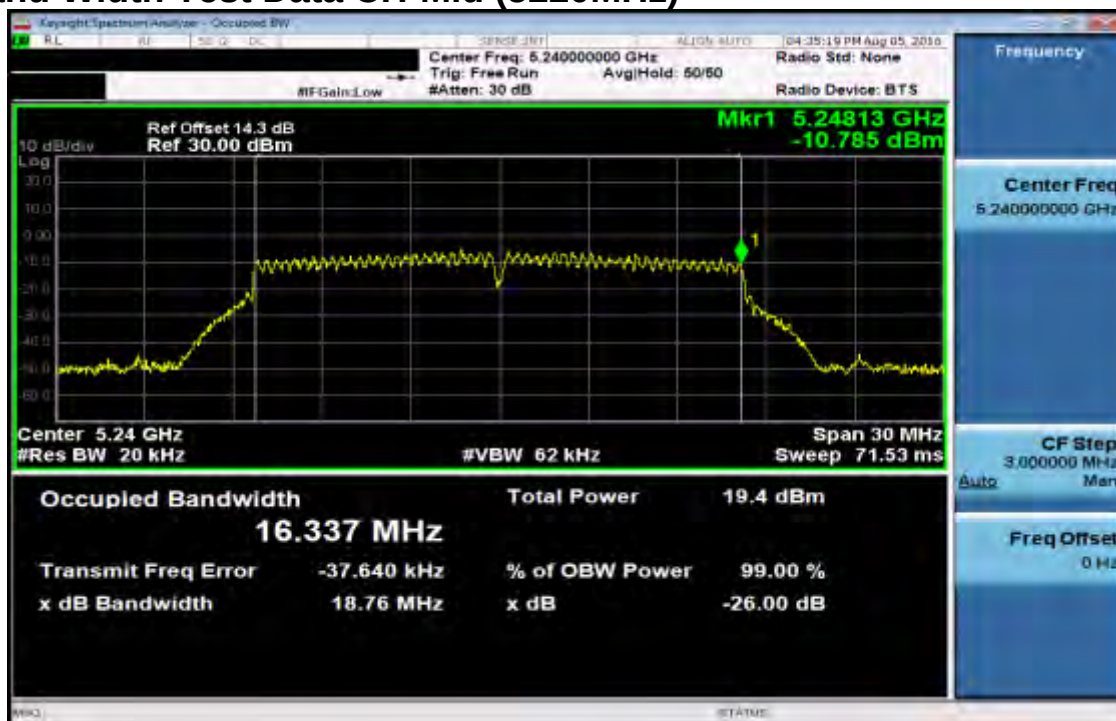
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802.11a, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5240MHz)



802.11a, 5150~5250 MHz (Aux 1) 99% Band Width Test Data CH-Mid (5220MHz)



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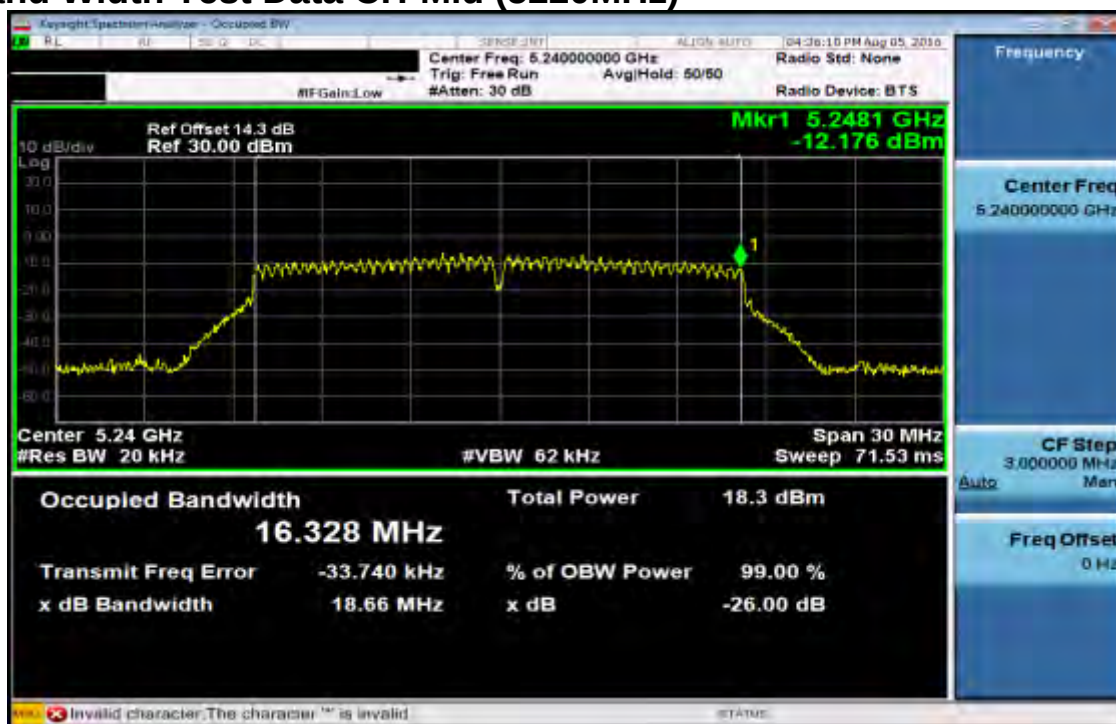
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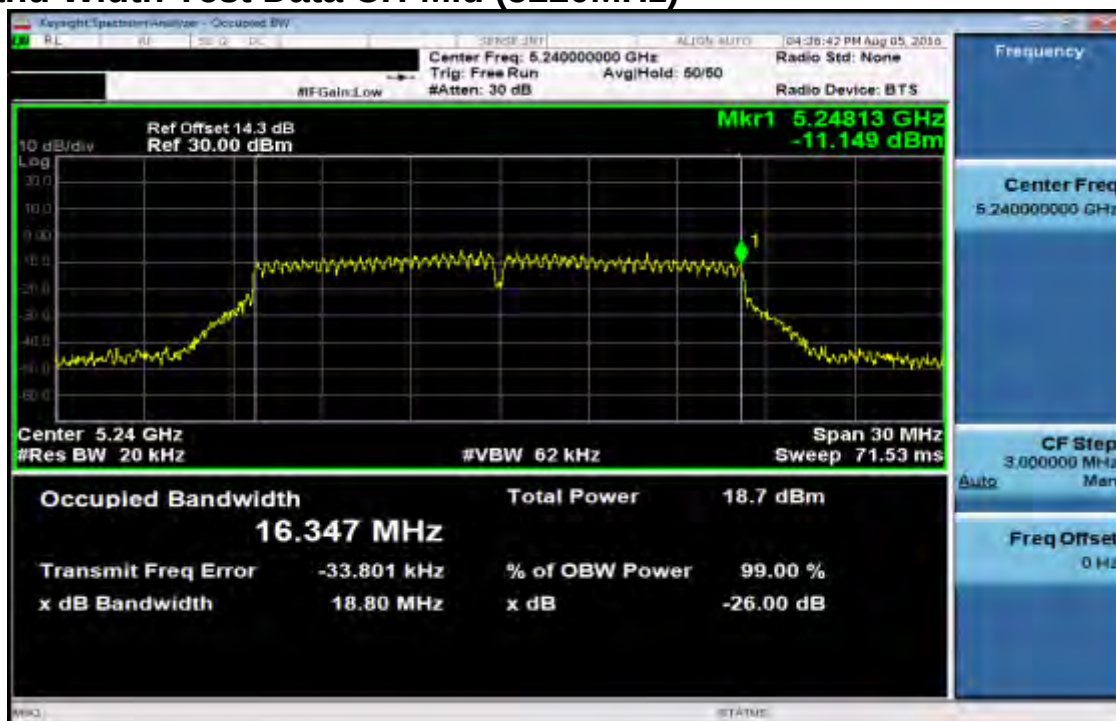
802.11a, 5150~5250 MHz (Aux 2)

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



802.11a, 5150~5250 MHz (Aux 3)

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



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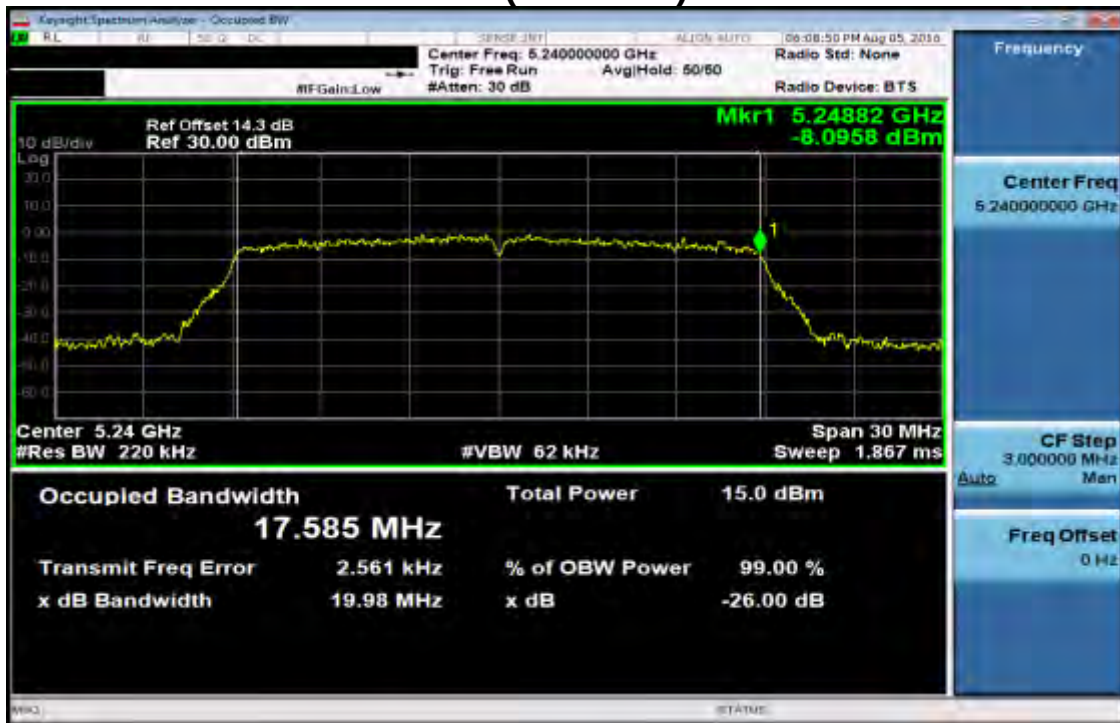
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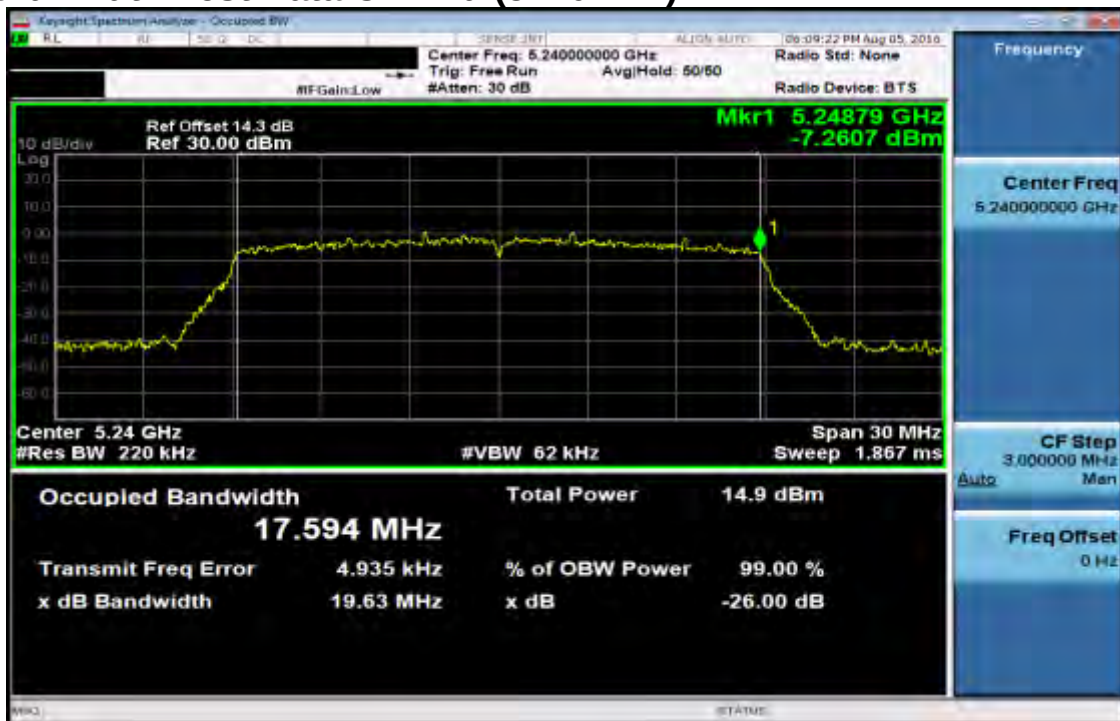
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802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5240MHz)



802.11n HT20, 5150~5250 MHz (Aux 1) 99% Band Width Test Data CH-Mid (5220MHz)



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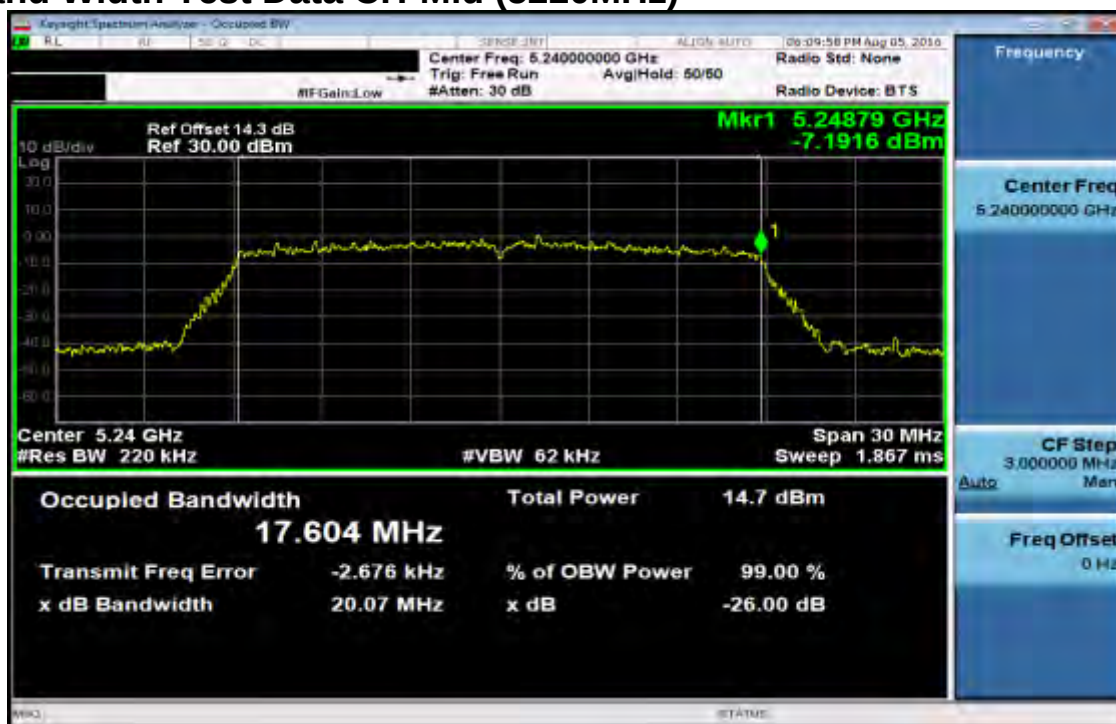
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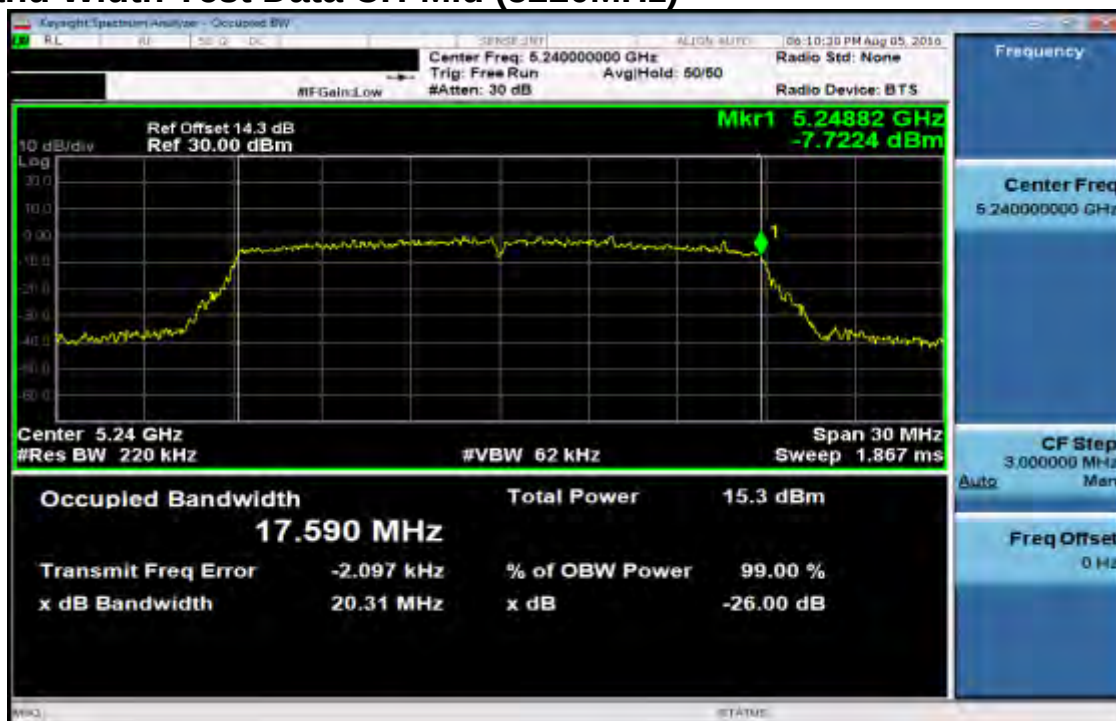
802.11n HT20, 5150~5250 MHz (Aux 2)

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



802.11n HT20, 5150~5250 MHz (Aux 3)

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



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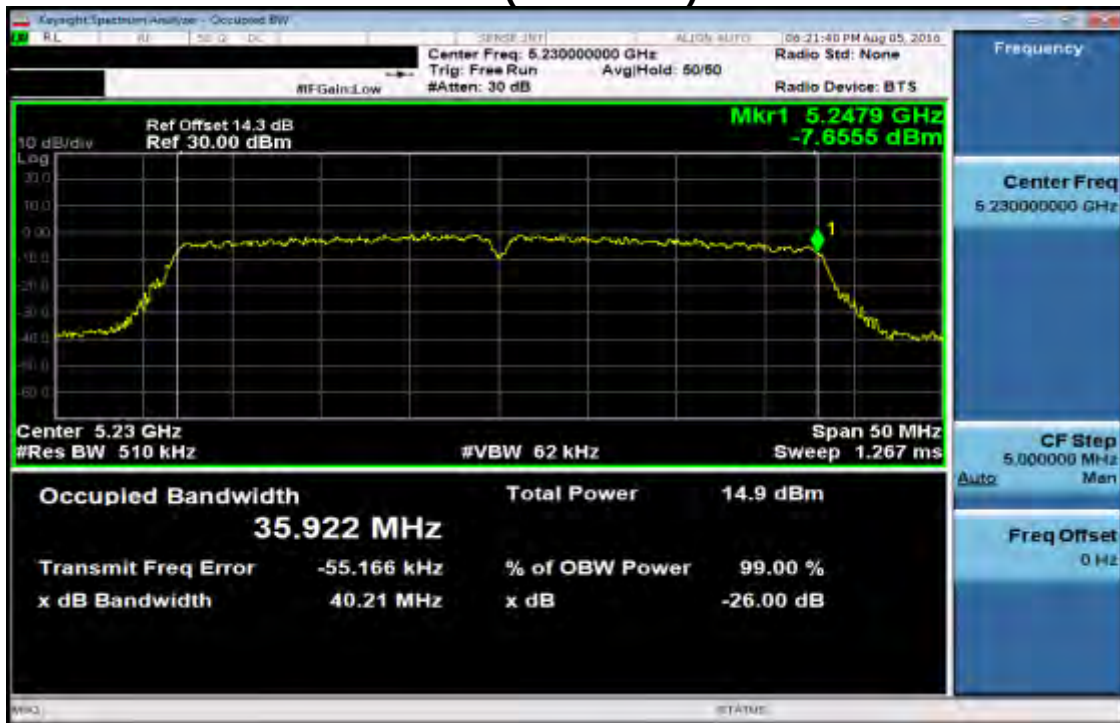
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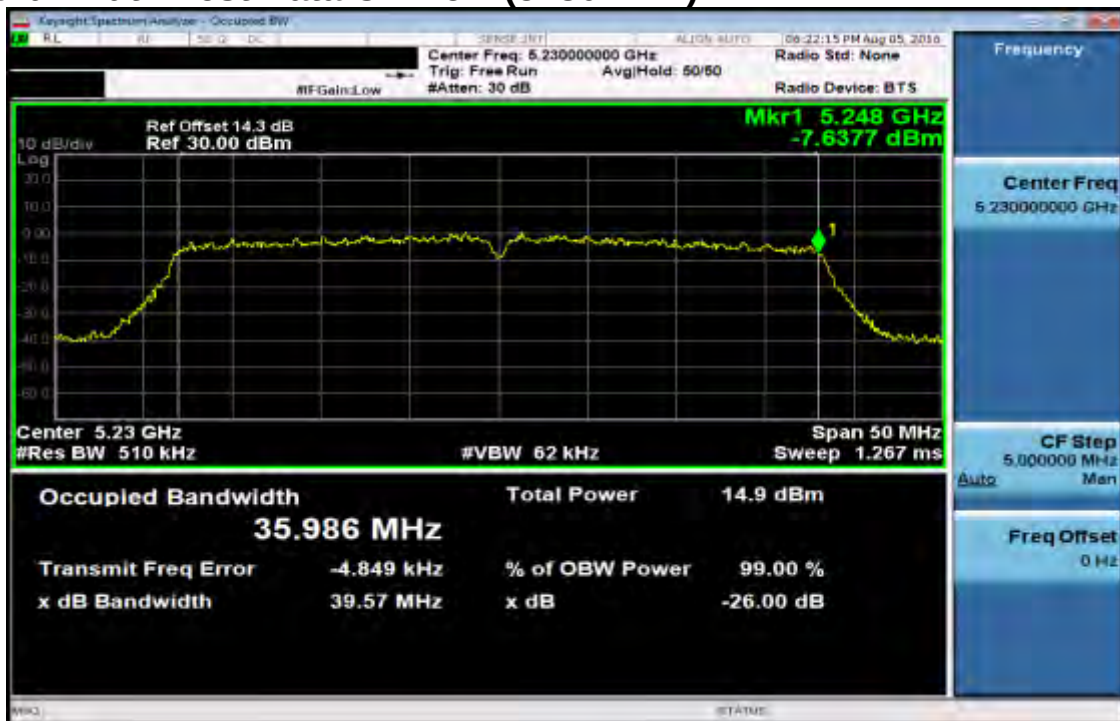
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802.11n HT40, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5230 MHz)



802.11n HT40, 5150~5250 MHz (Aux 1) 99% Band Width Test Data CH-Low (5230 MHz)



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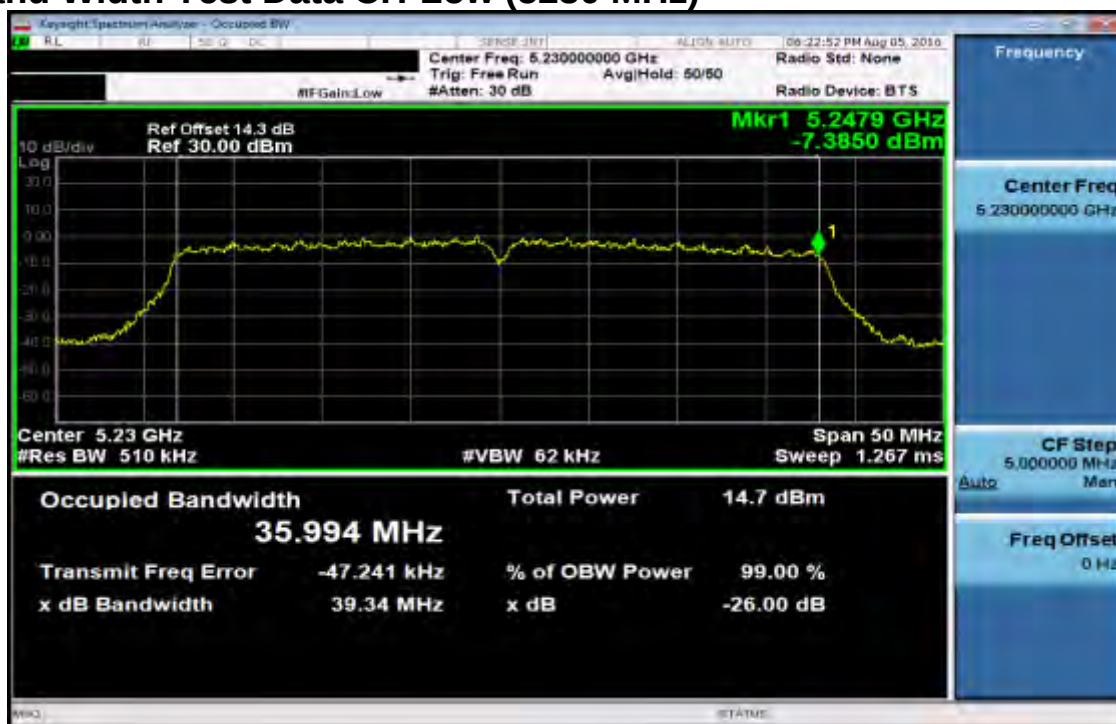
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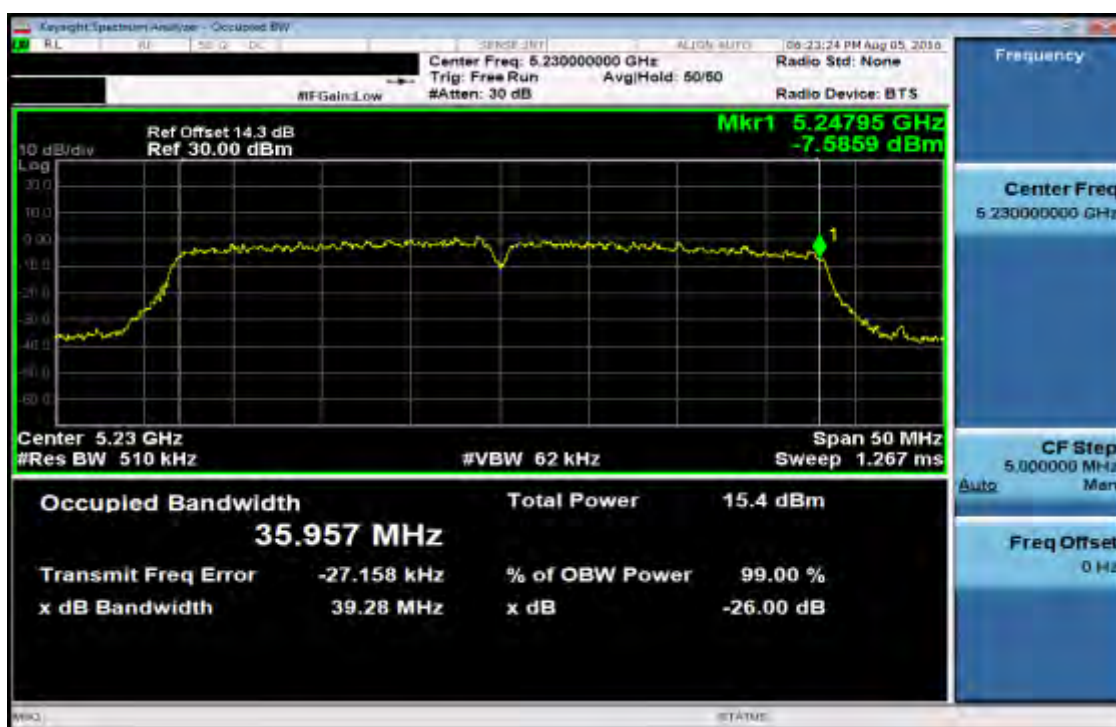
802.11n HT40, 5150~5250 MHz (Aux 2)

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



802.11n HT40, 5150~5250 MHz (Aux 3)

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



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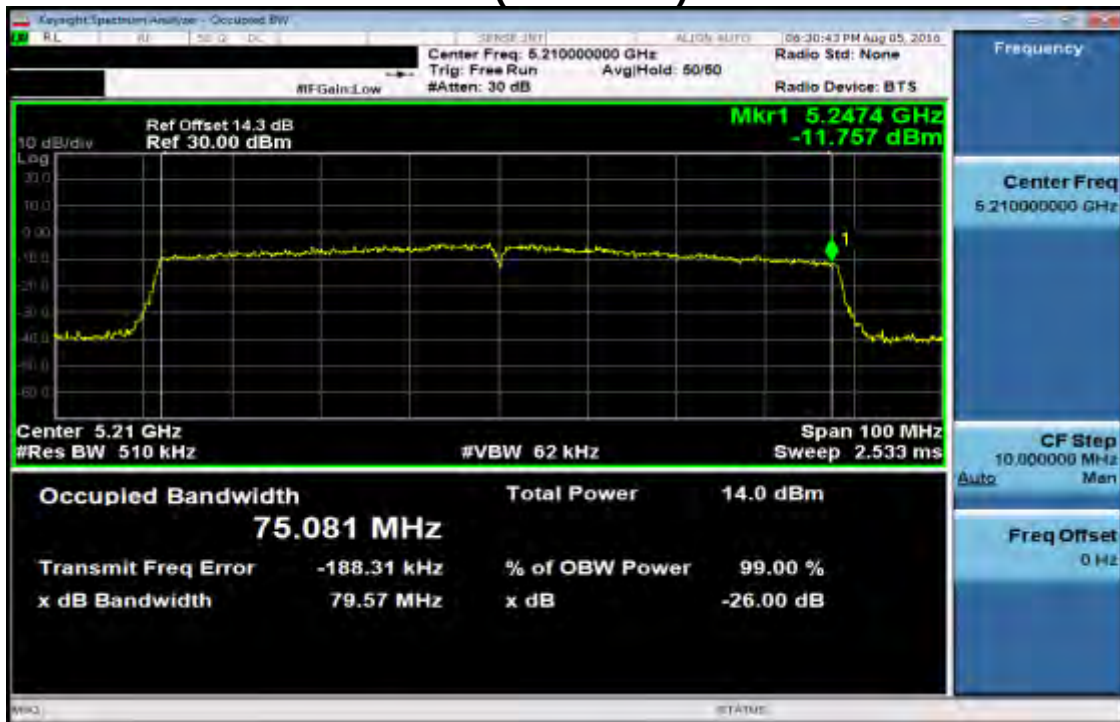
t (886-2) 2299-3279

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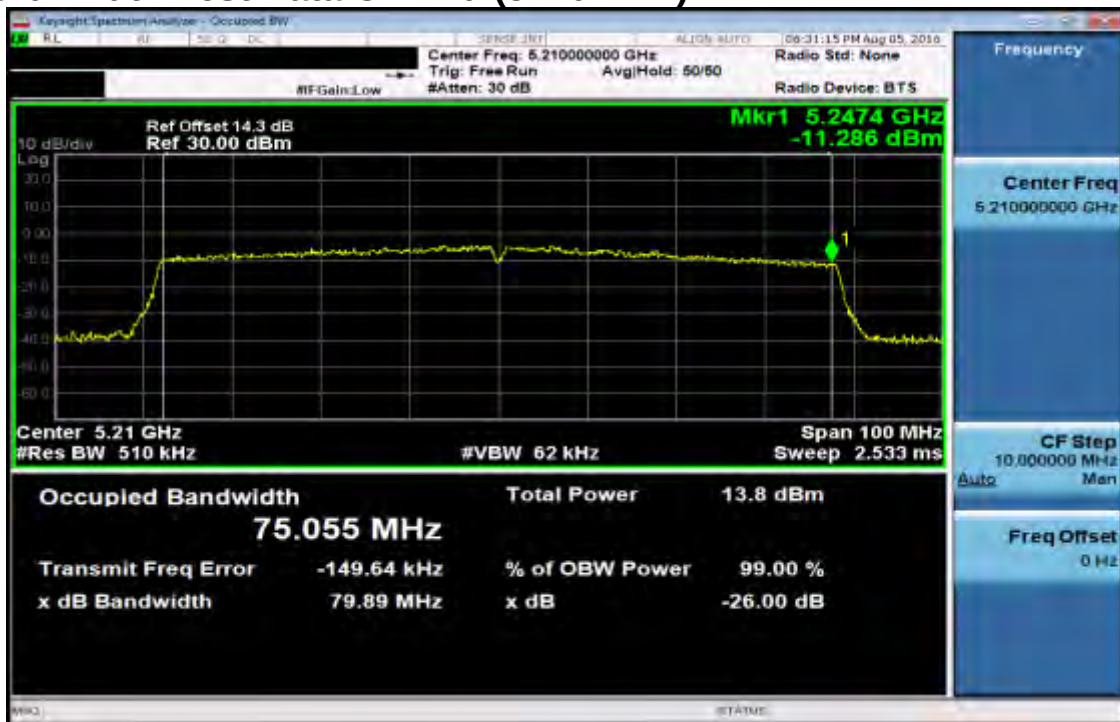
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802.11ac VHT80, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux 1) 99% Band Width Test Data CH-Mid (5210 MHz)



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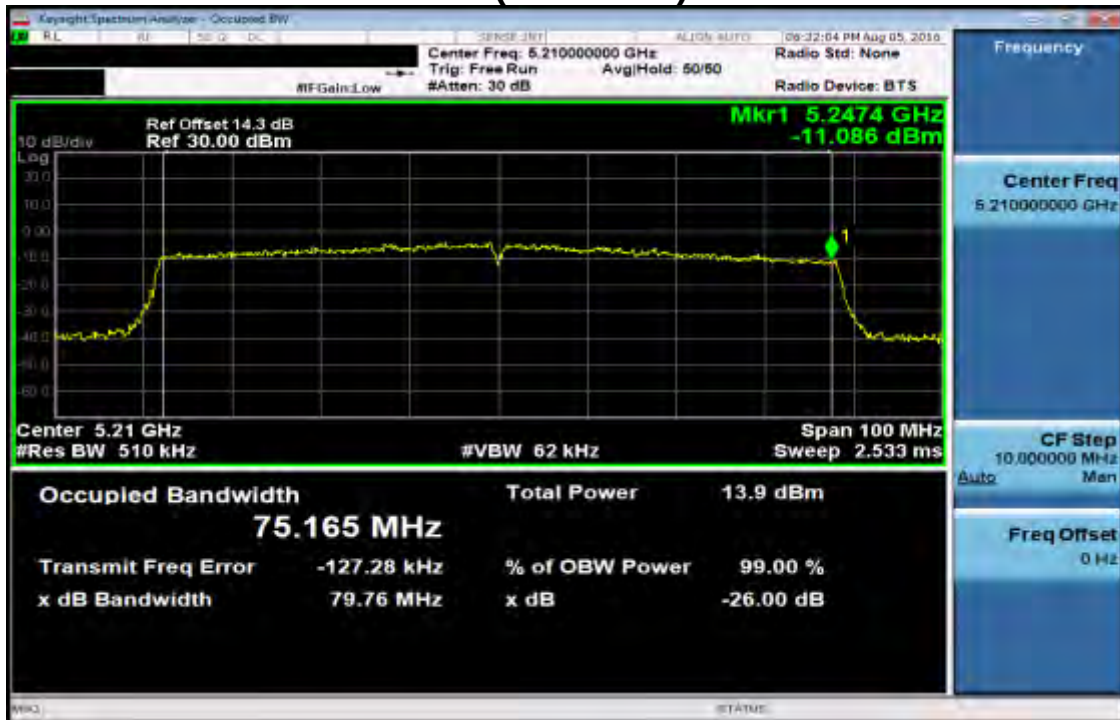
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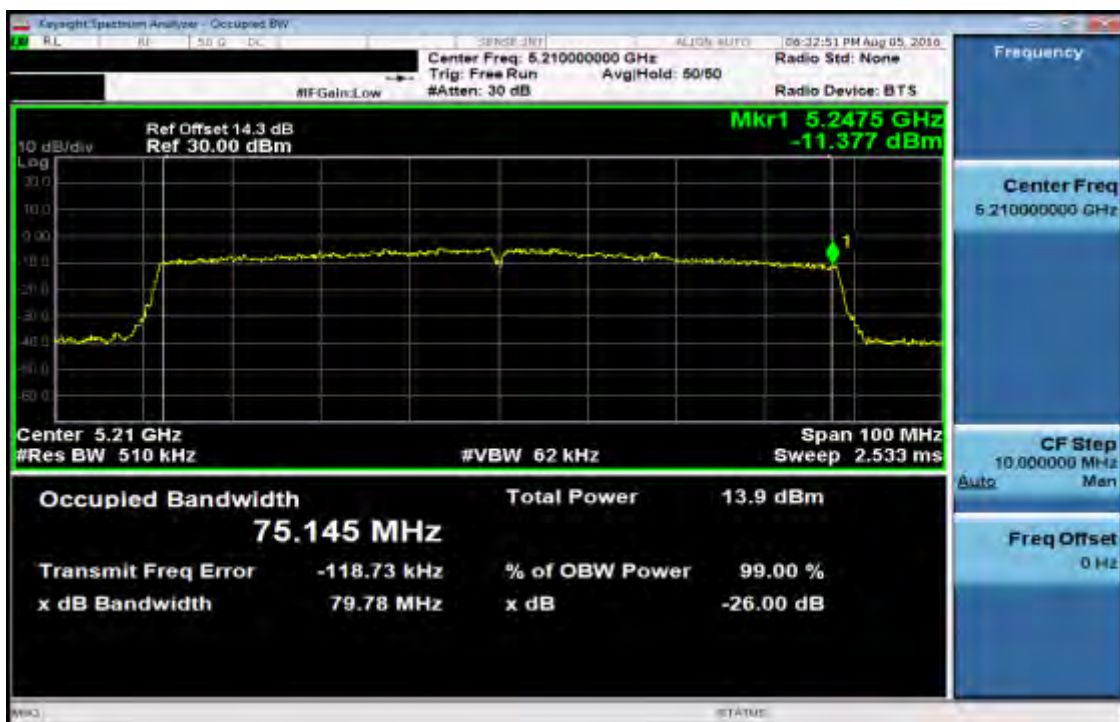
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802.11ac VHT80, 5150~5250 MHz (Aux 2)
99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux 3)
99% Band Width Test Data CH-Mid (5210 MHz)



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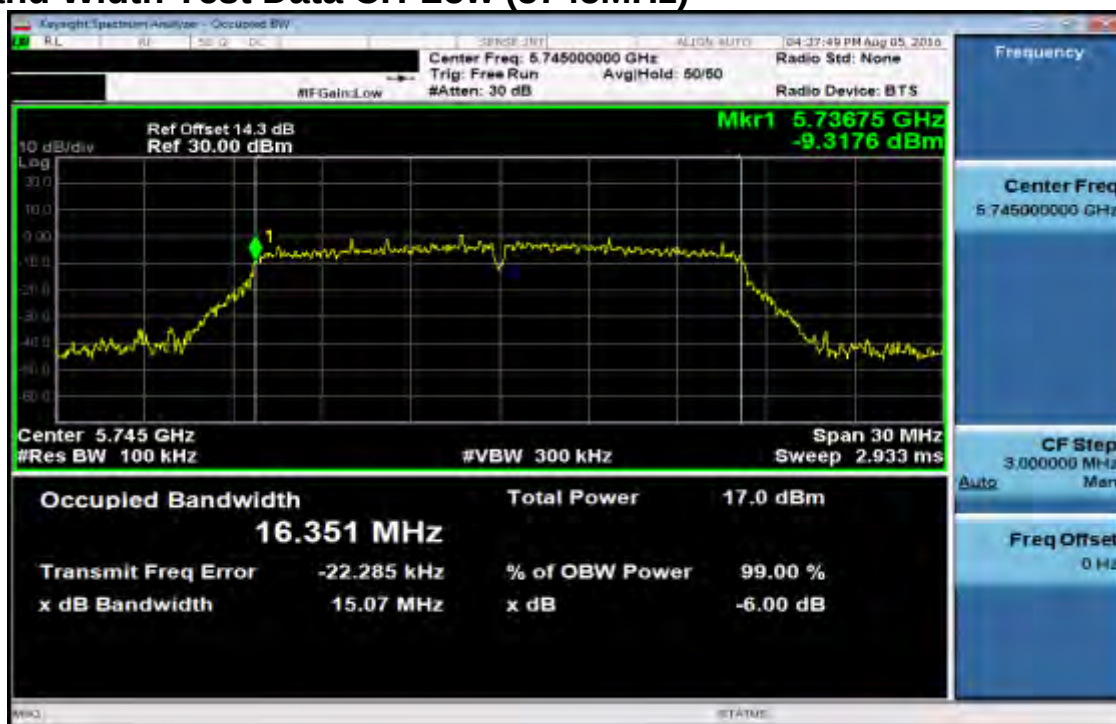
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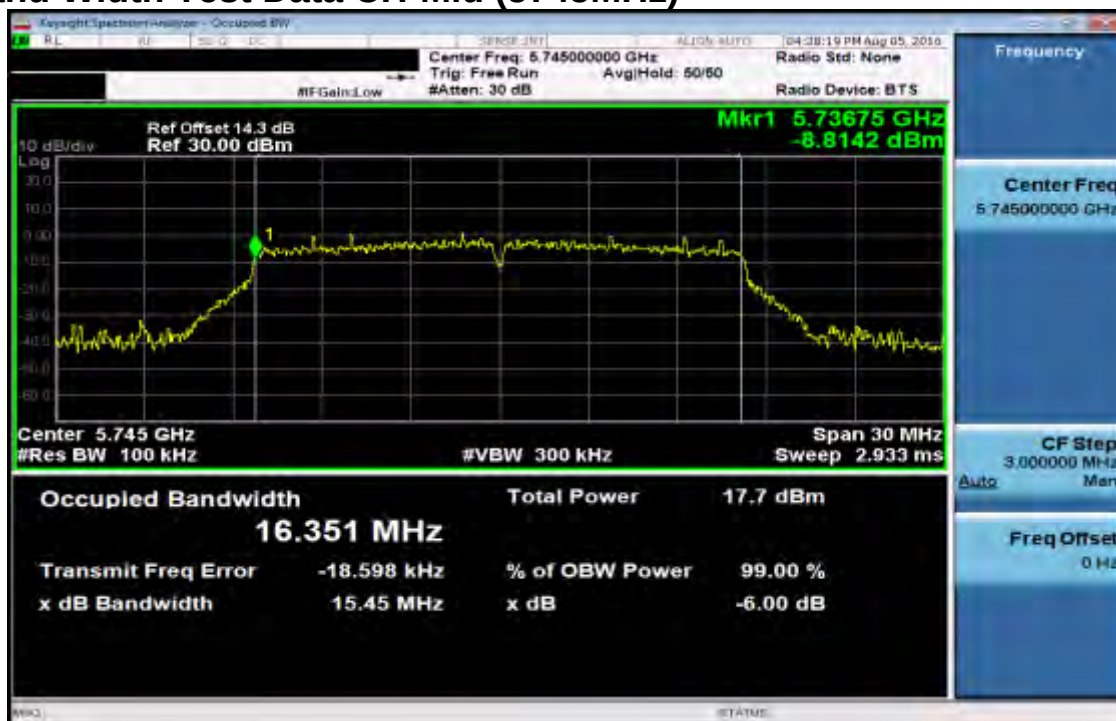
802.11a, 5725~5850 MHz (Main)

99% Band Width Test Data CH-Low (5745MHz)



802.11a, 5725~5850 MHz (Aux 1)

99% Band Width Test Data CH-Mid (5745MHz)



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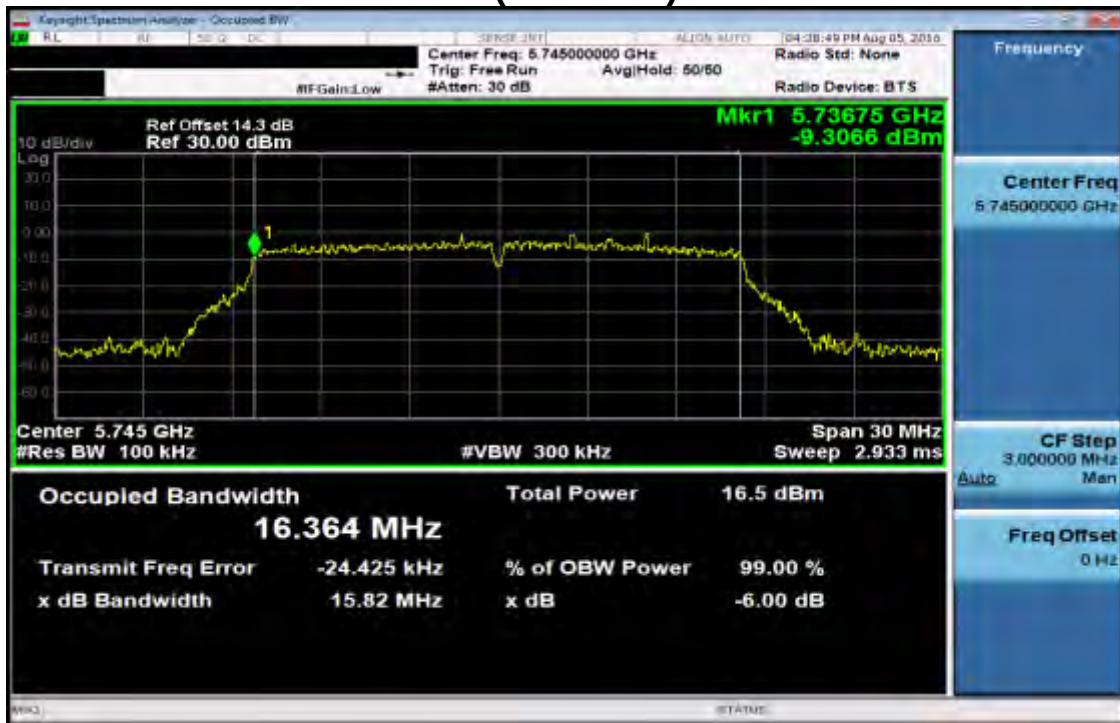
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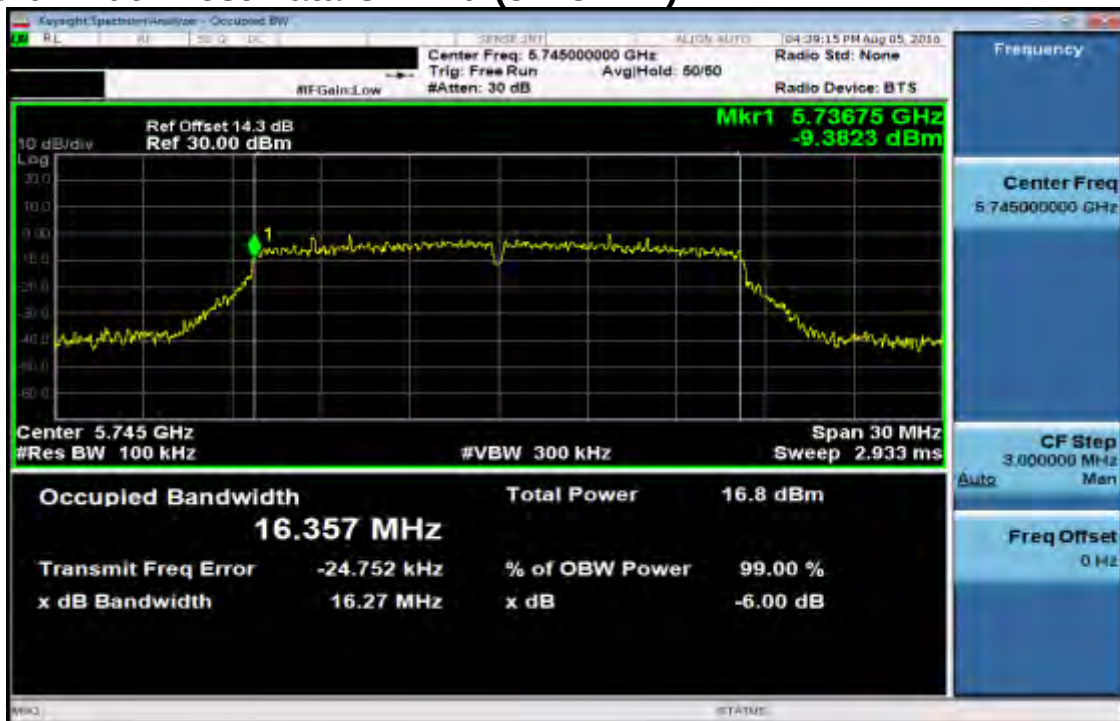
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802.11a, 5725~5850 MHz (Aux 2) 99% Band Width Test Data CH-Mid (5745MHz)



802.11a, 5725~5850 MHz (Aux 3) 99% Band Width Test Data CH-Mid (5745MHz)



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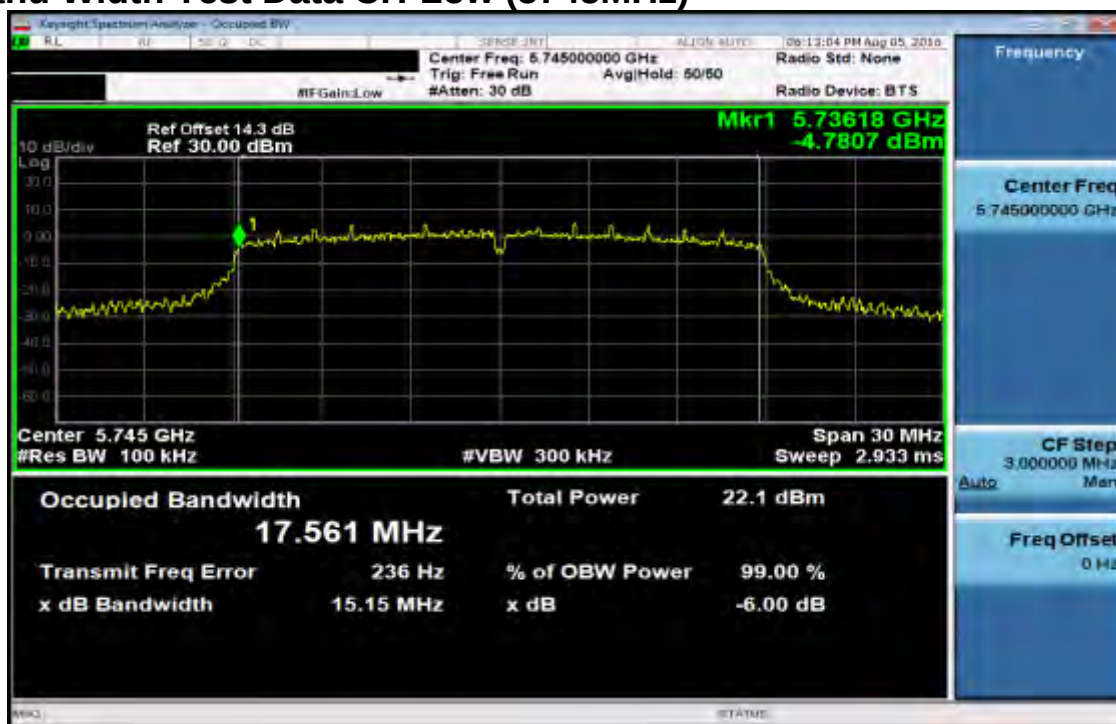
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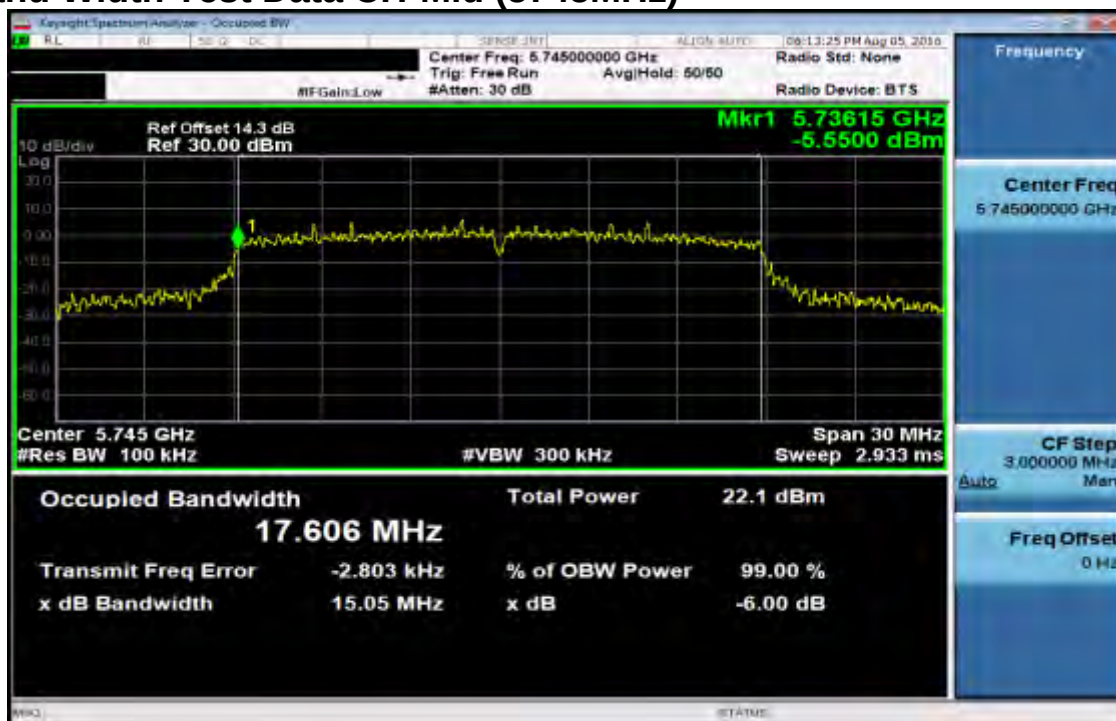
802.11n HT20, 5725~5850 MHz (Main)

99% Band Width Test Data CH-Low (5745MHz)



802.11n HT20, 5725~5850 MHz (Aux 1)

99% Band Width Test Data CH-Mid (5745MHz)



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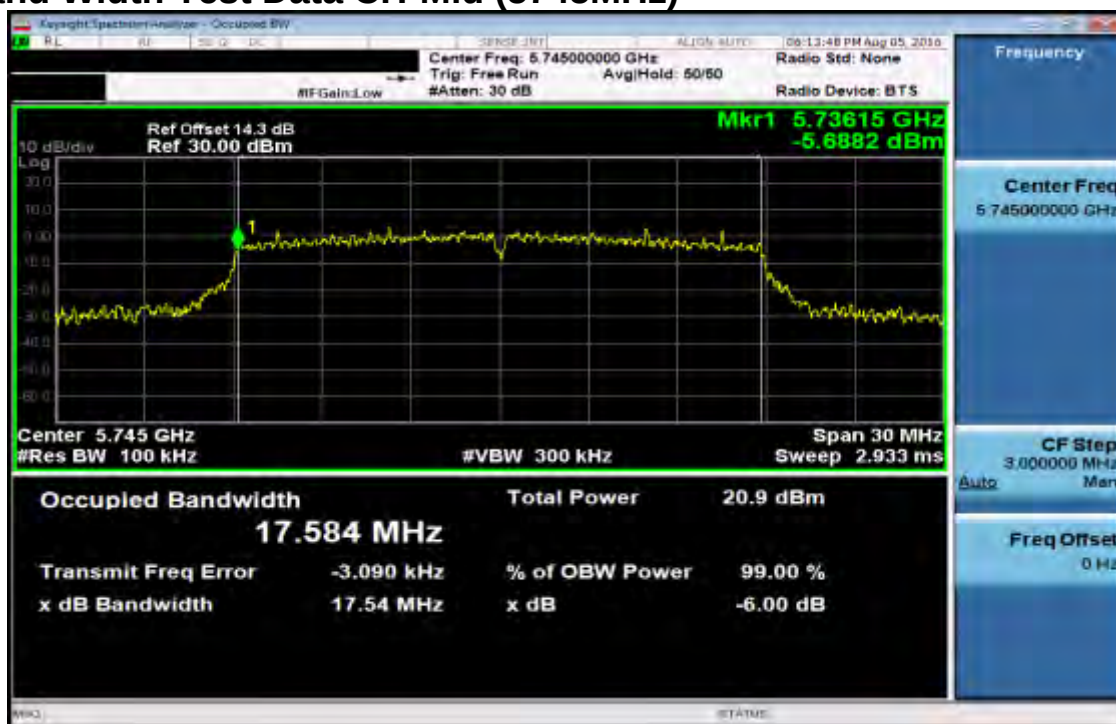
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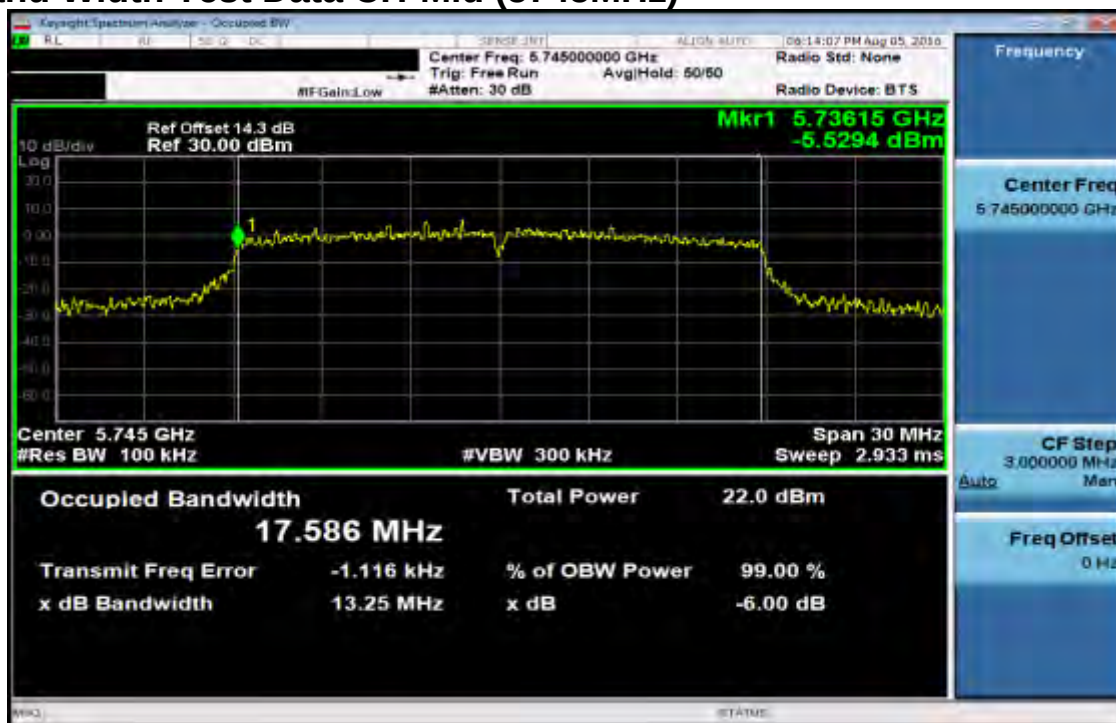
802.11n HT20, 5725~5850 MHz (Aux 2)

99% Band Width Test Data CH-Mid (5745MHz)



802.11n HT20, 5725~5850 MHz (Aux 3)

99% Band Width Test Data CH-Mid (5745MHz)



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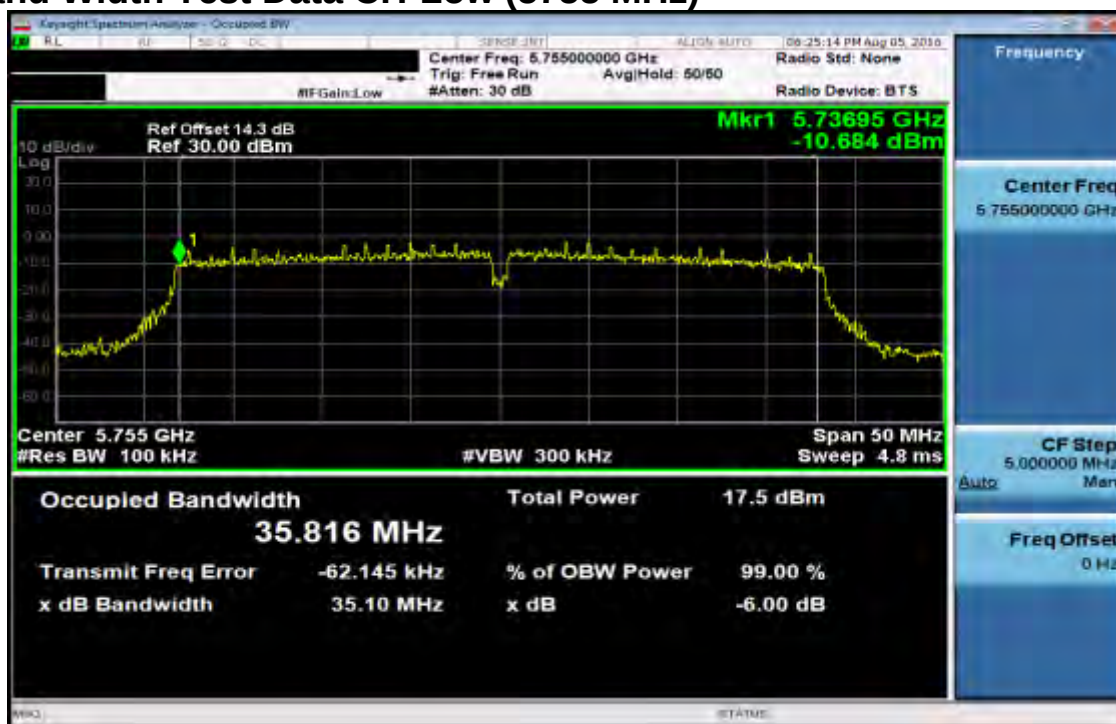
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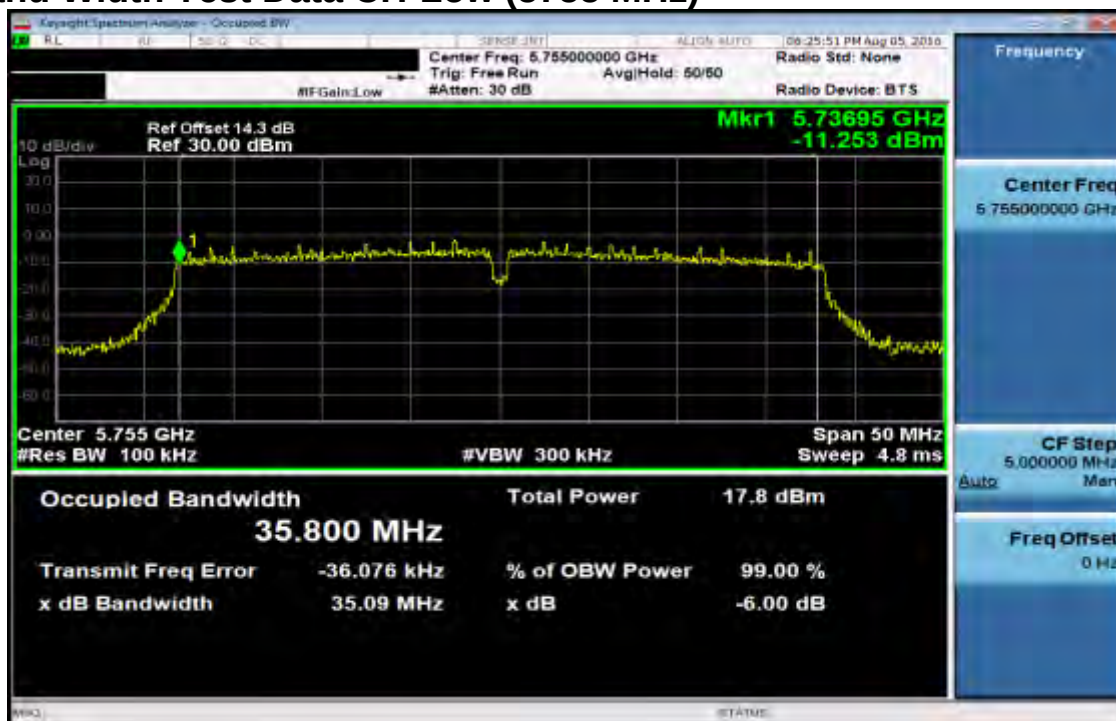
802.11n HT40, 5725~5850 MHz (Main)

99% Band Width Test Data CH-Low (5755 MHz)



802.11n HT40, 5725~5850 MHz (Aux 1)

99% Band Width Test Data CH-Low (5755 MHz)



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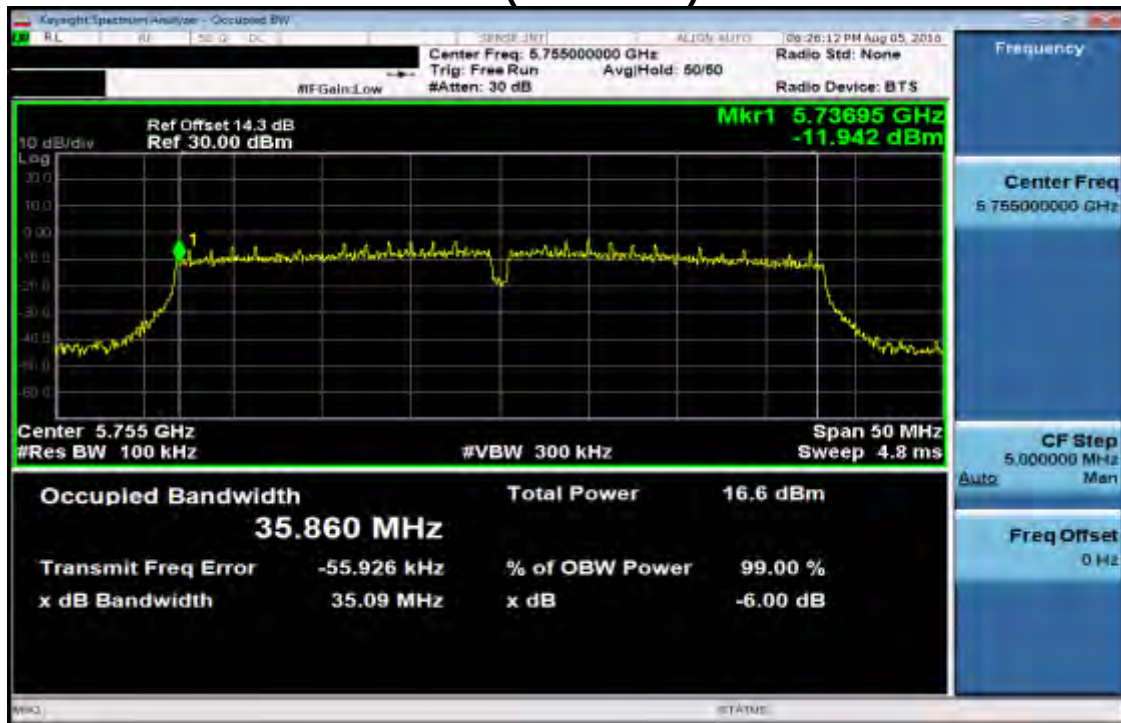
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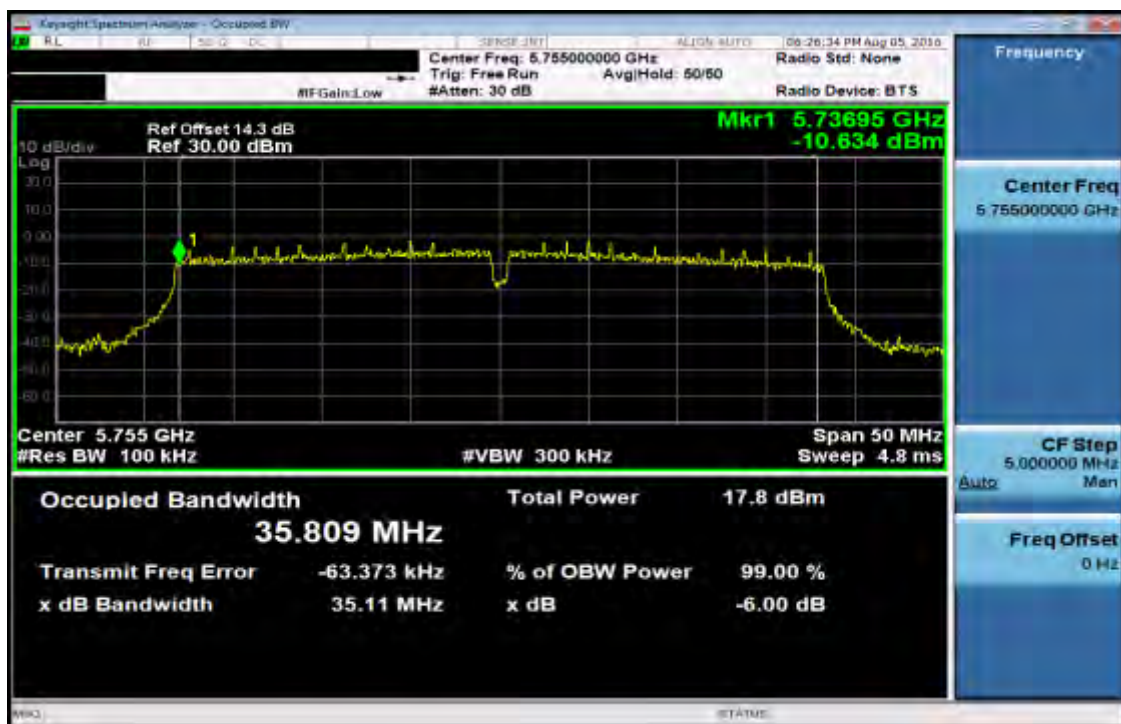
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802.11n HT40, 5725~5850 MHz (Aux 2) 99% Band Width Test Data CH-Low (5755 MHz)



802.11n HT40, 5725~5850 MHz (Aux 3) 99% Band Width Test Data CH-Low (5755 MHz)



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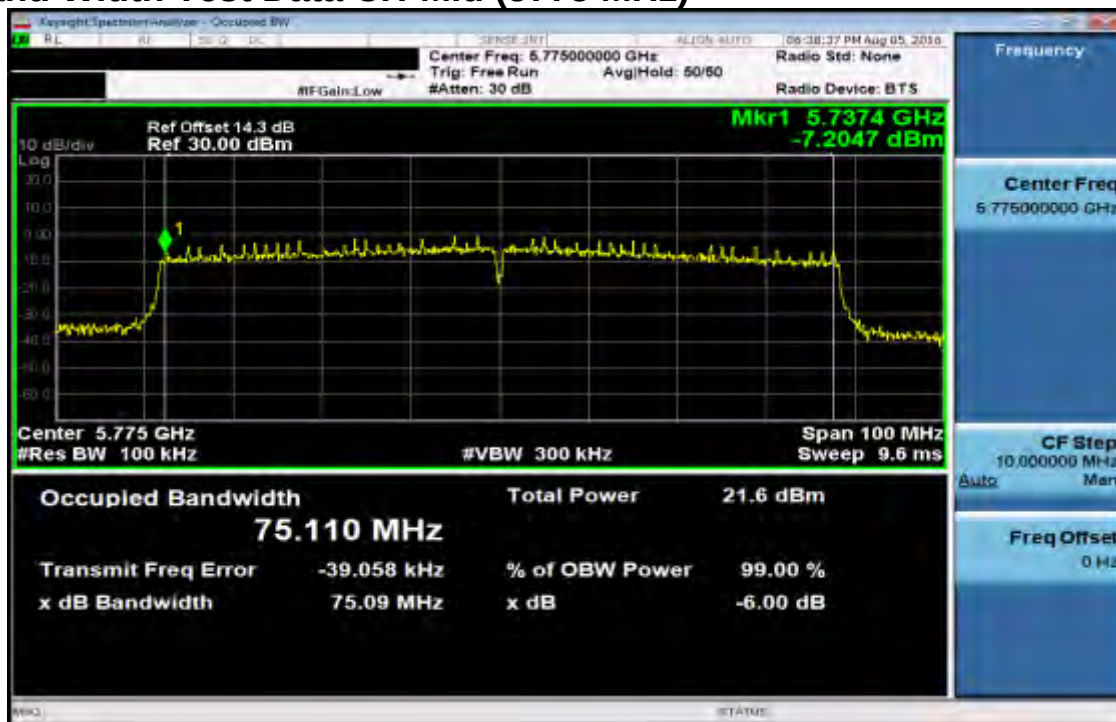
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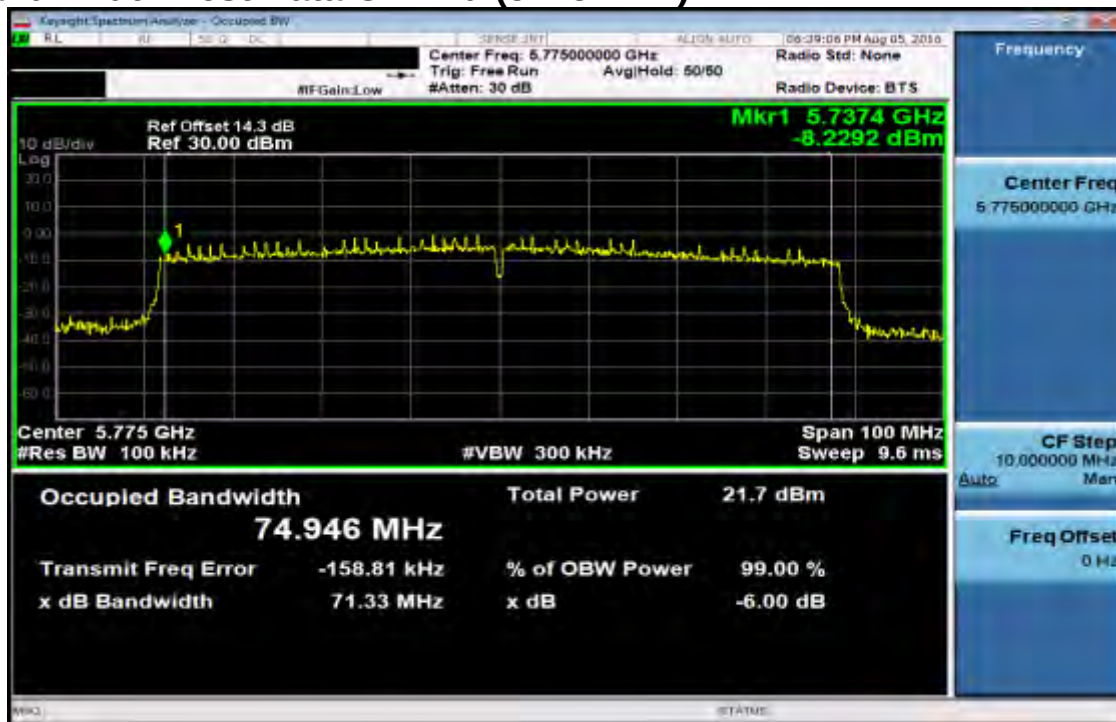
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802.11ac VHT80, 5725~5850 MHz (Main) 99% Band Width Test Data CH-Mid (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux 1) 99% Band Width Test Data CH-Mid (5775 MHz)



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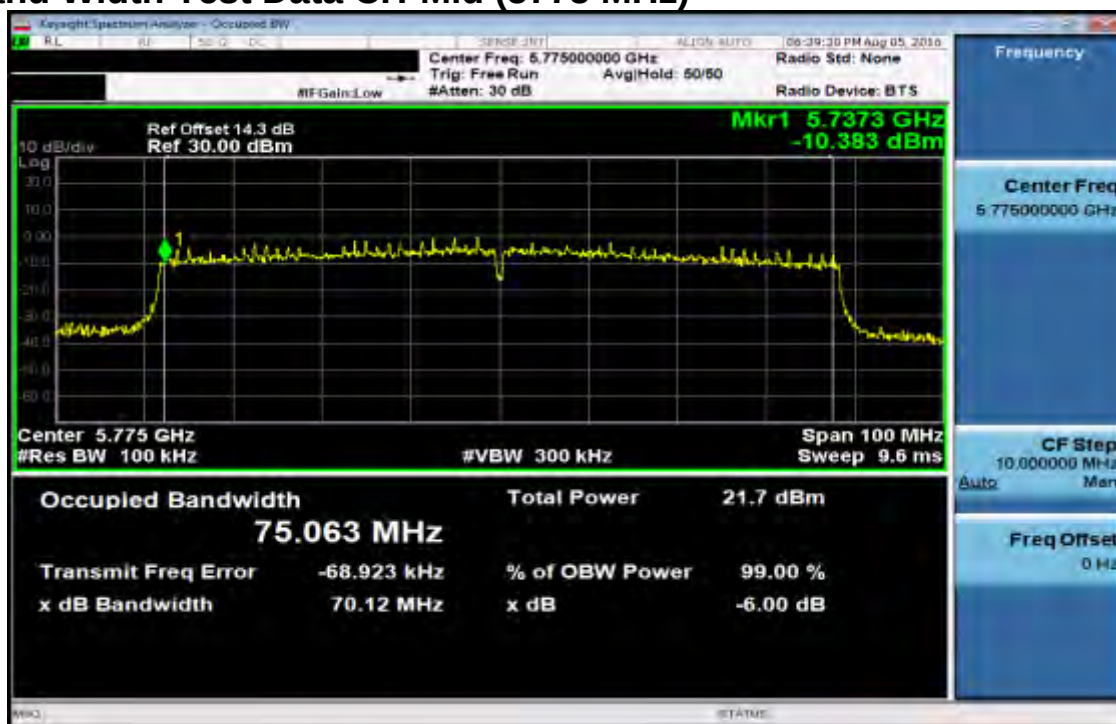
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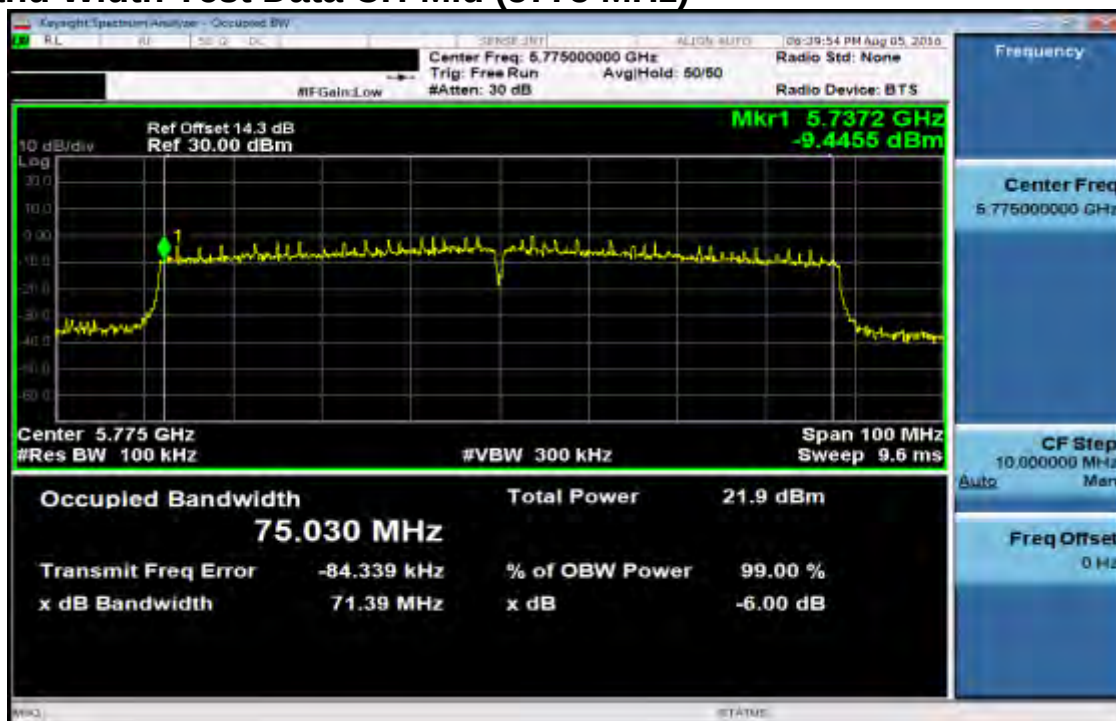
802.11ac VHT80, 5725~5850 MHz (Aux 2)

99% Band Width Test Data CH-Mid (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux 3)

99% Band Width Test Data CH-Mid (5775 MHz)



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