

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Phablet
Brand Name: HP
Model No.: HSTNH-F606
Model Difference: N/A
FCC ID: B94HHF606
IC: 3905A-HHF606
Report No.: ER/2016/40050
Issue Date: May 25, 2016
FCC Rule Part: §15.407
IC Rule Part: RSS-247 issue 1 May 2015
Prepared for (FCC): HP Inc.
3390 East Harmony Road Fort Collins,
Colorado 80528 United States
Prepared for (IC): HP Inc.
16399 W Bernardo Dr. San Diego CA
92127-1801 USA
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 (FCC): HP Inc.
3390 East Harmony Road Fort Collins, Colorado 80528 United States

Applicant (IC): HP Inc.
16399 W Bernardo Dr. San Diego CA 92127-1801 USA

Product Name: Phablet

Brand Name: HP

Model No.: HSTNH-F606

Model Difference: N/A

FCC ID: B94HHF606

IC: 3905A-HHF606

File Number: ER/2016/40050

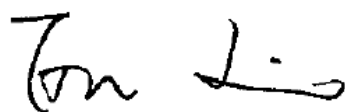
Date of Test: Apr. 20, 2016 ~ May 20, 2016

Date of EUT Received: Apr. 20, 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.

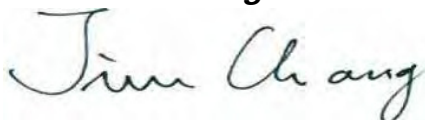
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

May 25, 2016

Tin Lin / Engineer**Prepared By:****Date:**

May 25, 2016

Violetta Tang / Clerk**Approved By:****Date:**

May 25, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/40050	Rev.00	Initial creation of document	May 25, 2016

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Phablet	
Brand Name:	HP	
Model No.:	HSTNH-F606	
Model Difference:	N/A	
Product SW/HW version:	V0.00.31 / 1.0	
Radio SW/HW version:	TH.2.0.c1-00260 / 1.0.0.0	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
USB Type-C Cable:	Model No.: 836233-001, Supplier: Luxshare-ICT	
Earphone:	Model No.: EH001, Supplier: 1MORE	
USB-C to VGA:	Model No.: KSC0021, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to HDMI:	Model No.: KSC0012, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to DP:	Model No.: KSC0044, Supplier: BIZLINK INTERNATIONAL CORP	
Wireless Charger:	Model No.: TPA-M601, Supplier: Merry Electronics Co Ltd	
Docking Station:	Model No.: HSTNH-F601, Supplier: HP Inc.	
Adapters for Docking Station:	1. Model No.: HSTNN-CA40, Supplier: Chicony Power Technology Co., LTd. 2. Model No.: HSTNN-LA40, Supplier: Lite-On Technology Corporation 3. Model No.: HSTNN-DA40, Supplier: DELTA ELECTRONICS INC 4. Model No.: HSTNN-AA44; Supplier: Acbel Polytech Inc.	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5.3V / 5.25V from AC/DC Adapter	
	Battery:	Model No.: HSTNH-F606-DP, Supplier: DYNAPACK INTERNATIONAL TECHNOLOGY CORP
	Adapter:	1. Model No.: WAD005, Supplier: Acbel Polytech Inc. (10.6W, 5.3V) 2. Model No.: TPN-AA01, Supplier: Acbel Polytech Inc. (15W, 5.25V)

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	13.99 dBm (Avg.) / 14.48 dBm (EIRP)	OFDM	16M4D1D
	5250~5350	4	13.85 dBm (Avg.) / 14.16 dBm (EIRP)		16M4D1D
	5470~5725	12	12.88 dBm (Avg.) / 15.32 dBm (EIRP)		16M3D1D
	5725-5850	5	12.99 dBm		16M4D1D
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 16.93 dBm (Avg.) / 20.38 dBm (EIRP) (Worst Case)	OFDM	17M6D1D
	HT / VHT20 5250~5350	4	HT: 16.85 dBm (Avg.) / 20.18 dBm (EIRP) (Worst Case)		17M5D1D
	HT / VHT20 5470~5725	11	HT: 15.72 dBm (Avg.) / 21.23 dBm (EIRP) (Worst Case)		17M6D1D
	HT / VHT20 5725-5850	5	HT: 15.78 dBm (Worst Case)		17M6D1D
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 16.90 dBm (Avg.) / 20.36 dBm (EIRP) (Worst Case)	OFDM	35M9D1D
	HT / VHT40 5250~5350	2	HT: 16.96 dBm (Avg.) / 20.30 dBm (EIRP) (Worst Case)		35M4D1D
	HT / VHT40 5470~5725	5	HT: 14.91 dBm (Avg.) / 20.42 dBm (EIRP) (Worst Case)		36M0D1D
	HT / VHT40 5725-5850	2	HT: 14.98 dBm (Worst Case)		36M0D1D
11ac_80M	VHT80 5150~5250	1	15.59 dBm (Avg.) / 19.05 dBm (EIRP)	OFDM	75M6D1D
	VHT80 5250~5350	1	15.54 dBm (Avg.) / 18.87 dBm (EIRP)		75M0D1D
	VHT80 5470~5725	2	15.97 dBm (Avg.) / 19.39 dBm (EIRP)		75M8D1D
	VHT80 5725-5850	1	12.63 dBm		76M2D1D

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Antenna Designation	PIFA Antenna, 1. Main 5GHz Gain: 0.49dBi (5150MHz-5250MHz) 5GHz Gain: 0.31dBi (5250MHz-5350MHz) 5GHz Gain: 2.44dBi (5470MHz-5725MHz) 5GHz Gain: 2.15dBi (5725MHz-5850MHz) 2. Aux 5GHz Gain: 0.4dBi (5150MHz-5250MHz) 5GHz Gain: 0.33dBi (5250MHz-5350MHz) 5GHz Gain: 2.6dBi (5470MHz-5725MHz) 5GHz Gain: 0.87dBi (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 Phablet, supporting GSM / WCDMA / LTE, Wi-Fi 802.11abgn/ac, Bluetooth, NFC and WPC / PMA features, and below is details of information.

Product Feature	
Product Name:	Phablet
Brand Name:	HP
Model No.:	HSTNH-F606
Model Difference:	N/A
FCC ID:	B94HHF606
IC :	3905A-HHF606
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 5: Part 22. / FCC Band 2: Part 24. FCC Band 4 / 7 / 12 / 17 / 30: Part 27.
LTE Rel. Version	Rel.11
Bluetooth Version	V4.1 dual mode + HS
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC
Wireless Charging	WPC / PMA

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

KDB648474 D03 Wireless Chargers Battery Cover

RSS-247 issue 1 May 2015

RSS-Gen issue 4 Nov. 2014

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: 509634

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.

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 3.7dB, and 10dB attenuator.

MIMO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor (dB)} + 10 \log(N_{\text{ANT}}) \text{ dB} = 13.7(\text{dB})$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

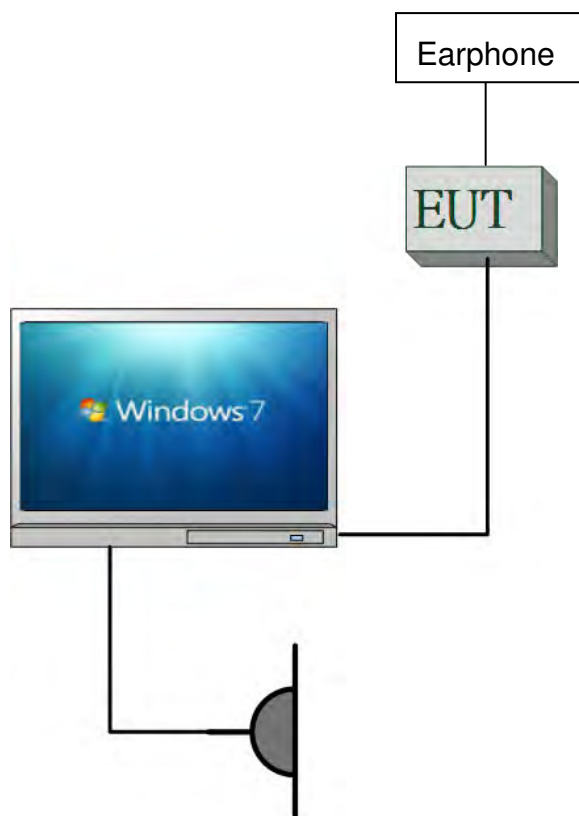
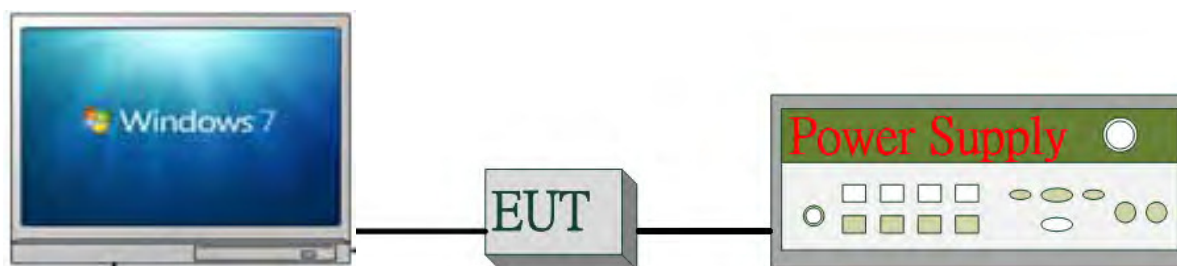


Fig. 2-2 Conducted (Antenna Port) Configuration Emission



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Fig. 2-3 AC Power Line Conducted Emission

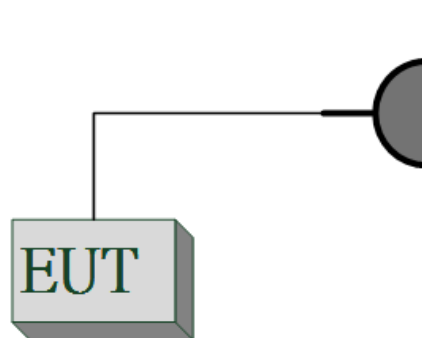


Table 2-1 Equipment Used in Tested System

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
3.	DC Power Supply	HP	E3640A	KR93300208	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)	RSS- Gen §6.7 RSS- Gen §8.3	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:

11 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		

5 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		

2 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 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.

Note: Additional emissions testing were performed per KDB 648474 D03 and the additional worst case emissions are reported herein and identified as WPC.

Per KDB 648474 D03, spurious emissions measurement data was also investigated with the wireless charging battery cover. The handset was placed on the representative charging pad under normal conditions and in a simulated call configuration. Only worst case emissions are shown in this report.

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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	1	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	1	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	1	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	1	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	1	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	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	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.

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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	1	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	1	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
802.11a	5500~5700	100 to 140	100,116,140	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	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

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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	05/04/2015	05/03/2016
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/15/2015	05/14/2016
LISN	FCC	FCC-LISN-50/250 -25-2-01	4034	03/13/2016	03/12/2017
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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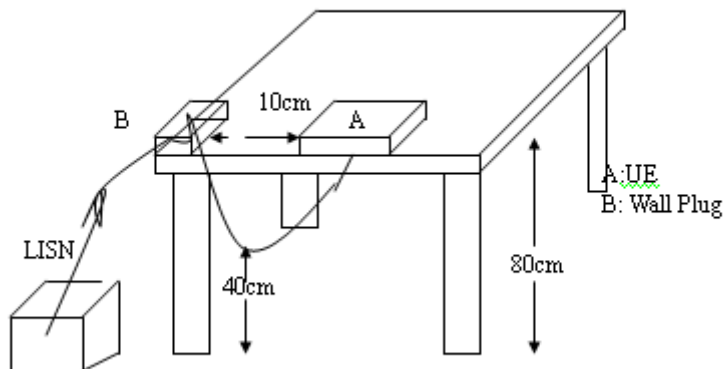
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6.4. Test SET-UP



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:	Apr. 28, 2016
Temperature:	20		

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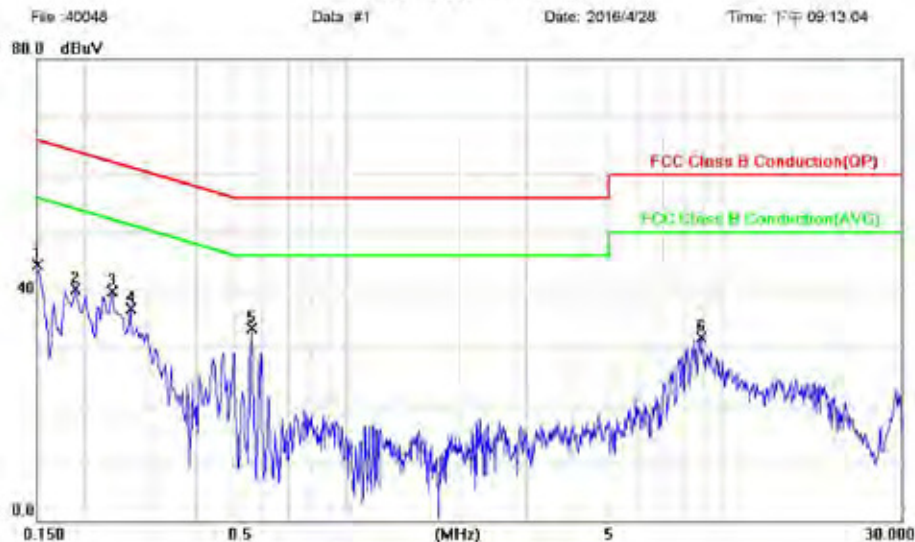
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Site: Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation
Note: Adapter: WAD005

Phase: N
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 58 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	44.34	0.03	44.37	68.00	-21.63	peak	
2		0.1900	40.14	0.03	40.17	64.04	-23.87	peak	
3		0.2380	39.73	0.03	39.76	62.17	-22.41	peak	
4		0.2660	36.59	0.03	36.62	61.24	-24.62	peak	
5		0.5620	33.31	0.03	33.34	56.00	-22.66	peak	
6		8.7900	31.39	0.28	31.67	60.00	-28.33	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	May 03, 2016
Temperature:	20		

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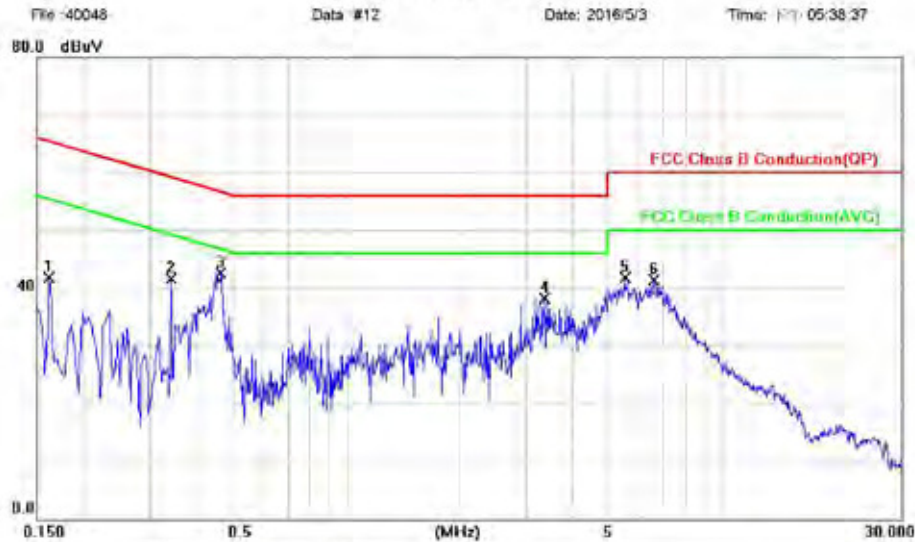
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Site: Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation
Note: Adapter: TPN-AA01

Phase: **N**
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 58 %

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	41.65	0.03	41.68	65.38	-23.68	peak	
2		0.3420	41.42	0.03	41.45	59.15	-17.70	peak	
3	*	0.4660	42.56	0.03	42.59	56.58	-13.99	peak	
4		3.3700	38.01	0.13	38.14	56.00	-17.86	peak	
5		5.5140	41.45	0.22	41.67	60.00	-18.33	peak	
6		6.6020	40.98	0.24	41.22	60.00	-18.78	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*log (1/Duty Cycle)
802.11a	95.48	0.20
802.11n_20	91.27	0.40
802.11n_40	83.90	0.76
802.11ac_80	73.17	1.36

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9548) = 0.2$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9127) = 0.4$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.839) = 0.76$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.7317) = 1.36$$

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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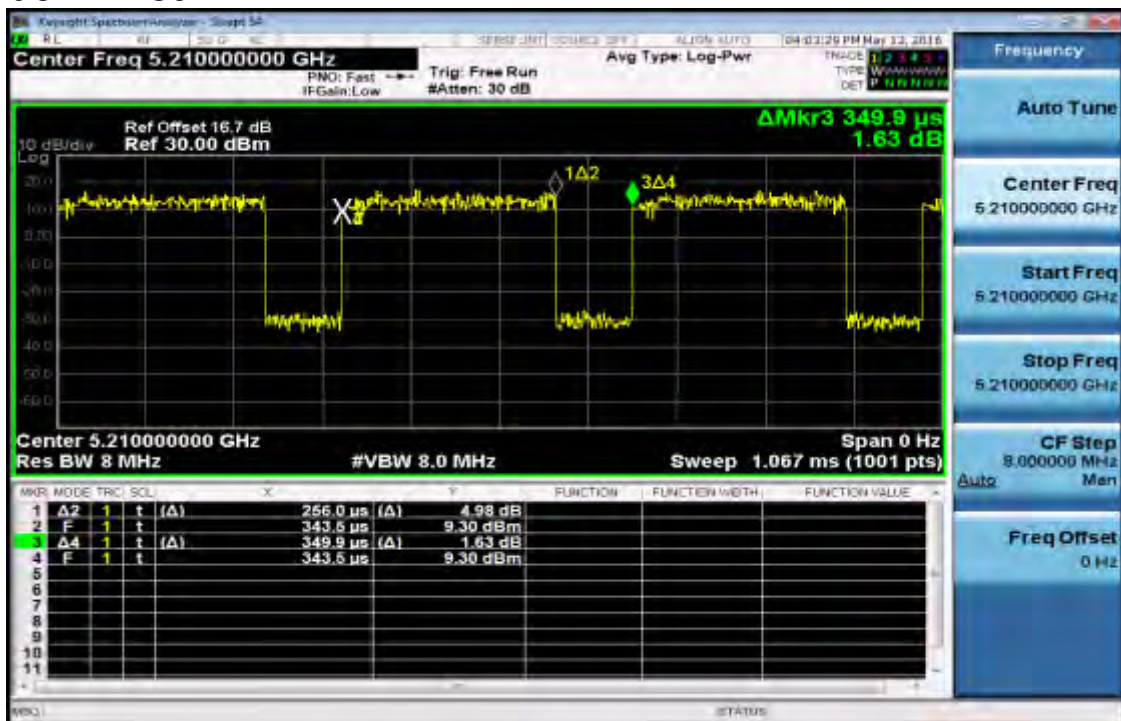
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802.11n HT 40



802.11 ac VHT 80



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8. 26dB & 6dB & 99% 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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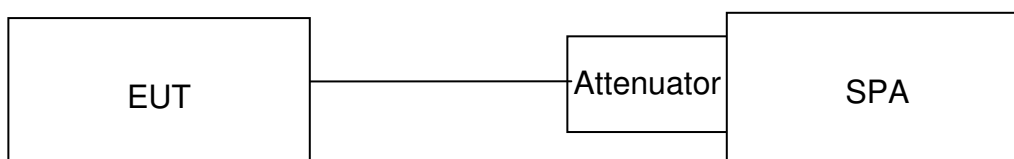
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8.3 Measurement Equipment Used

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
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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	05/17/2015	05/16/2016

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	19.05	12.799
5220	19.18	12.828
5240	18.64	12.705
5260	19.31	12.857
5300	18.74	12.727
5320	19.36	12.869
5500	19.16	12.825
5580	18.72	12.722
5700	19.65	12.934

802.11n_HT20_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	19.77	12.960
5220	19.85	12.978
5240	19.74	12.954
5260	19.66	12.936
5300	19.78	12.961
5320	19.50	12.900
5500	19.78	12.962
5580	19.73	12.950
5700	19.65	12.934

802.11n_HT20_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	19.54	12.910
5220	19.90	12.987
5240	19.69	12.943
5260	19.62	12.928
5300	19.63	12.929
5320	19.53	12.908
5500	19.85	12.977
5580	19.70	12.944
5700	21.52	13.328

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802.11n_HT40_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	40.51	16.075
5230	39.87	16.007
5270	40.65	16.091
5310	40.09	16.030
5510	40.18	16.040
5550	40.18	16.041
5670	40.20	16.042

802.11n_HT40_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	39.90	16.010
5230	40.05	16.026
5270	39.76	15.994
5310	39.59	15.976
5510	39.23	15.936
5550	40.39	16.062
5670	40.85	16.112

802.11ac_VHT80_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	94.02	19.732
5290	91.95	19.635
5530	96.23	19.833
5610	93.08	19.689

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	92.42	19.658
5290	93.88	19.725
5530	95.21	19.787
5610	99.54	19.980

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99% Bandwidth

802.11a_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	16.269	12.114
5220	16.406	12.150
5240	16.244	12.107
5260	16.233	12.104
5300	16.334	12.131
5320	16.371	12.141
5500	16.344	12.134
5580	16.341	12.133
5700	16.303	12.123

802.11n_HT20_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	17.525	12.437
5220	17.614	12.459
5240	17.405	12.407
5260	17.046	12.316
5300	15.660	11.948
5320	17.520	12.435
5500	17.467	12.422
5580	17.595	12.454
5700	17.396	12.404

802.11n_HT20_Aux1

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	15.717	11.964
5220	17.533	12.439
5240	17.633	12.463
5260	17.405	12.407
5300	17.492	12.428
5320	17.460	12.420
5500	17.565	12.446
5580	17.669	12.472
5700	17.528	12.437

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802.11n_HT40_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5190	35.857	15.546
5230	35.795	15.538
5270	33.764	15.285
5310	35.425	15.493
5510	35.950	15.557
5550	36.020	15.565
5670	35.662	15.522

802.11n_HT40_Aux1

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5190	34.172	15.337
5230	35.908	15.552
5270	34.942	15.433
5310	35.980	15.561
5510	35.886	15.549
5550	35.906	15.552
5670	34.826	15.419

802.11ac_VHT80_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5210	75.556	18.783
5290	75.039	18.753
5530	72.303	18.592
5610	75.775	18.795

802.11ac_VHT80_Aux1

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5210	71.876	18.566
5290	71.862	18.565
5530	75.834	18.799
5610	75.869	18.801

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

802.11a_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.44	11.887
5785	15.17	11.810
5825	14.83	11.710

802.11n_HT20_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.00	11.759
5785	13.94	11.444
5825	15.16	11.807

802.11n_HT20_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.73	11.966
5785	15.34	11.859
5825	15.12	11.797

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802.11n_HT40_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.10	15.453
5795	35.13	15.456

802.11n_HT40_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.06	15.448
5795	33.85	15.295

802.11ac_VHT80_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	75.66	18.789

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	76.02	18.809

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802.11a_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.36	12.138
5785	16.33	12.129
5825	16.37	12.139

802.11n_HT20_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.48	12.425
5785	16.80	12.254
5825	17.62	12.460

802.11n_HT20_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.56	12.444
5785	17.49	12.429
5825	15.16	11.807

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802.11n_HT40_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	34.90	15.428
5795	36.03	15.566

802.11n_HT40_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.97	15.560
5795	35.92	15.553

802.11ac_VHT80_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	75.83	18.798

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	76.20	18.820

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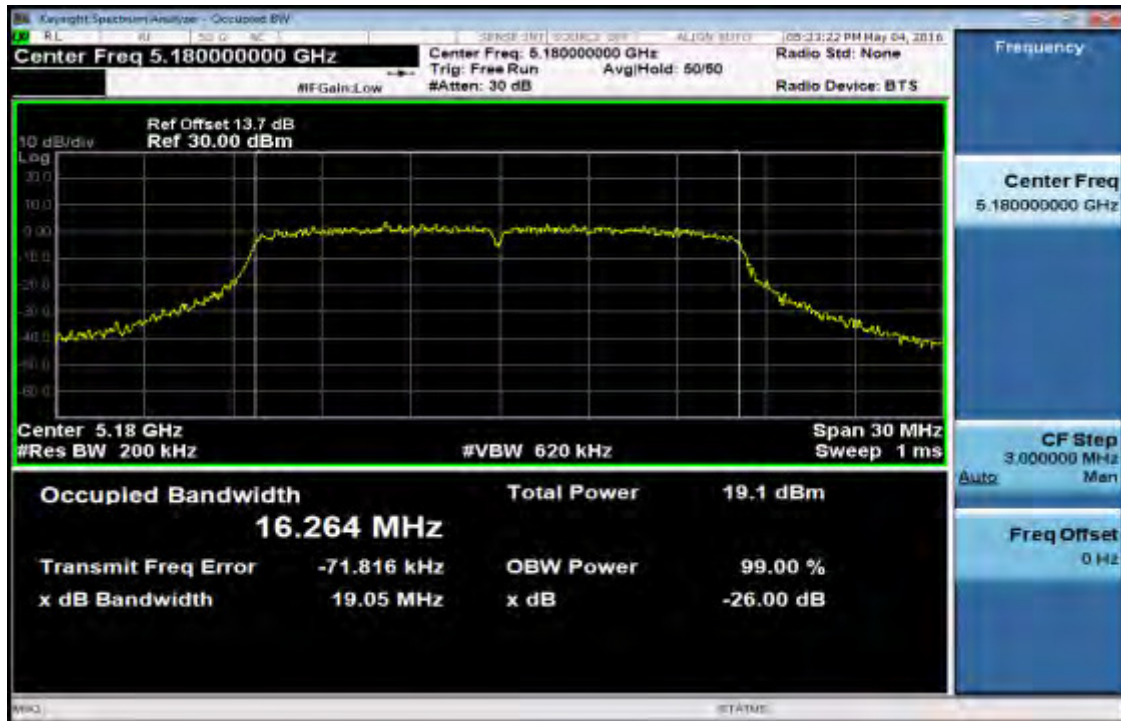
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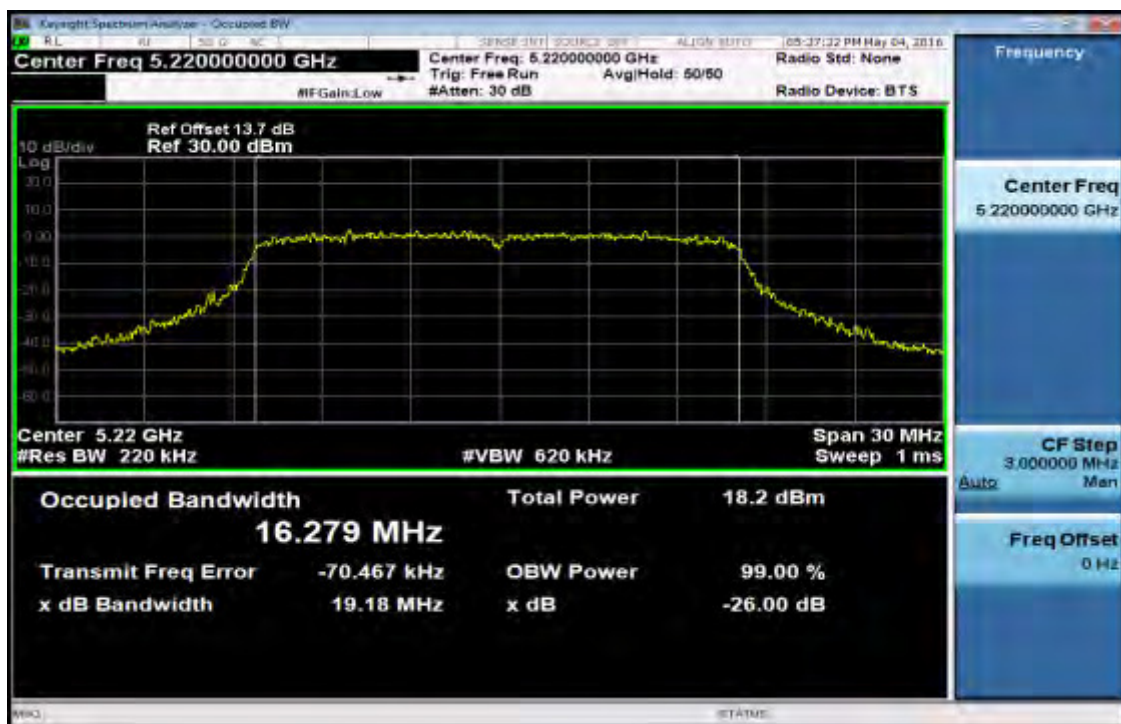
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



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



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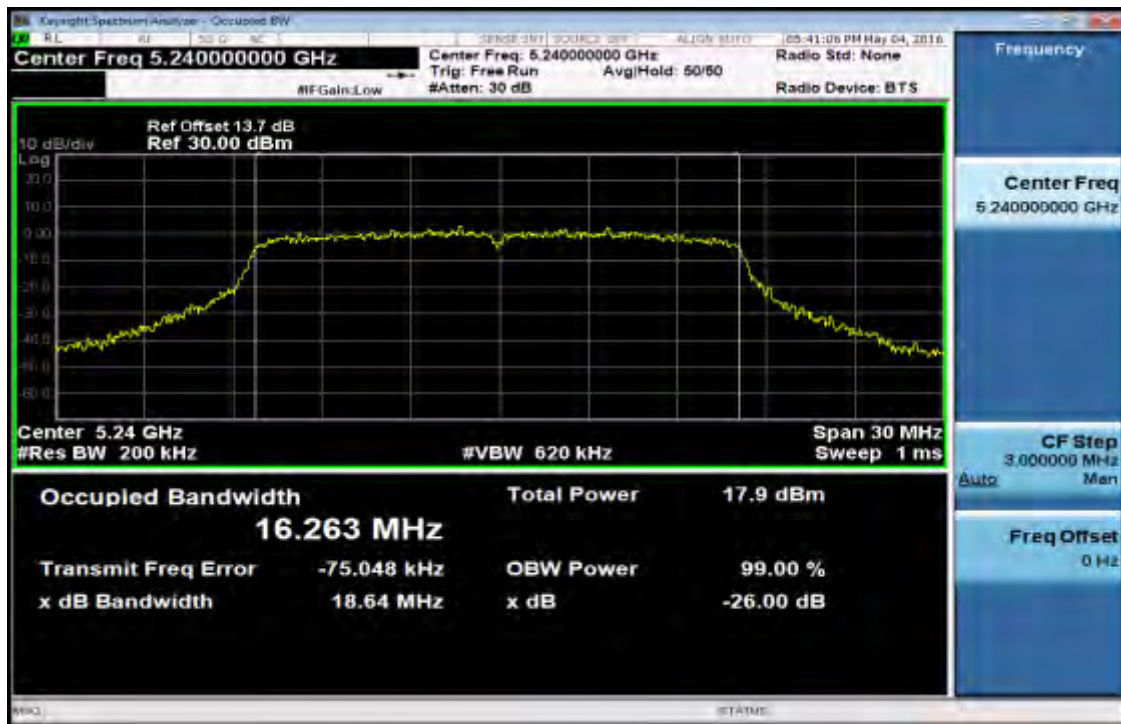
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26dB Band Width Test Data CH-High (5240MHz)



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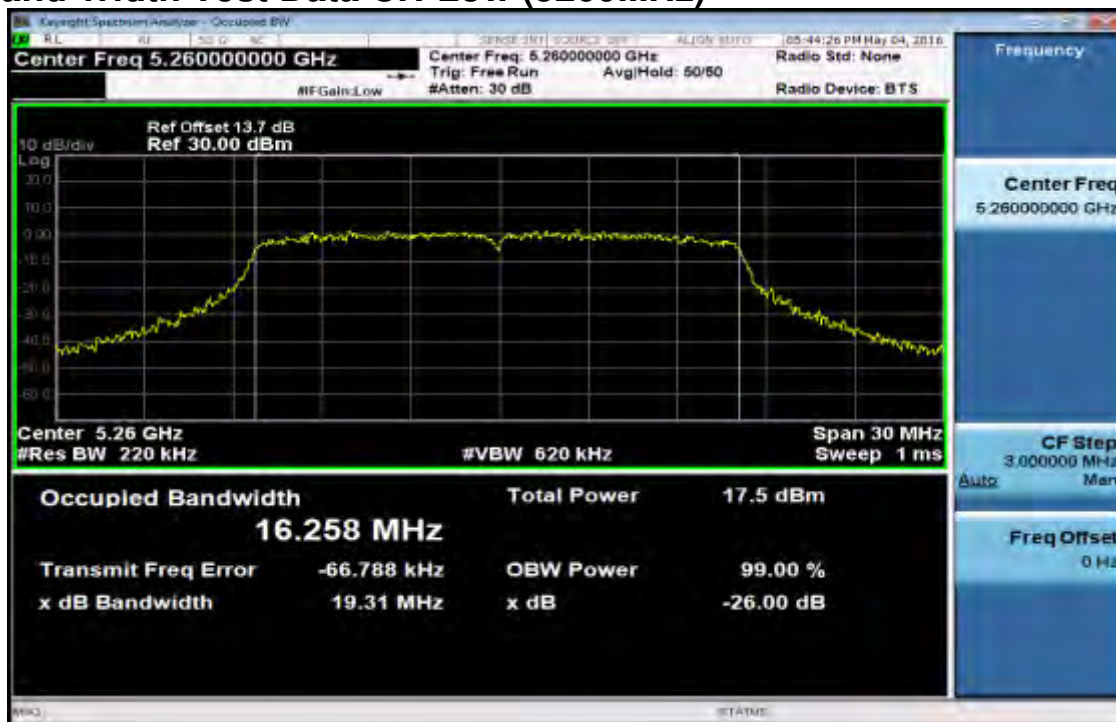
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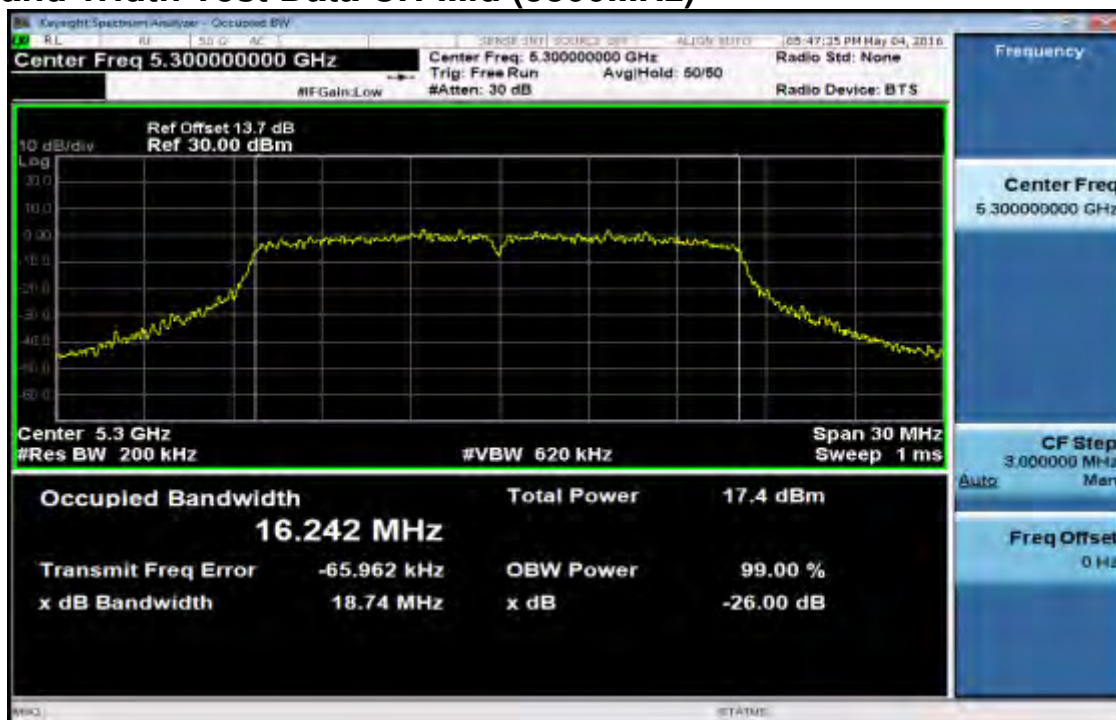
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802.11a, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260MHz)



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



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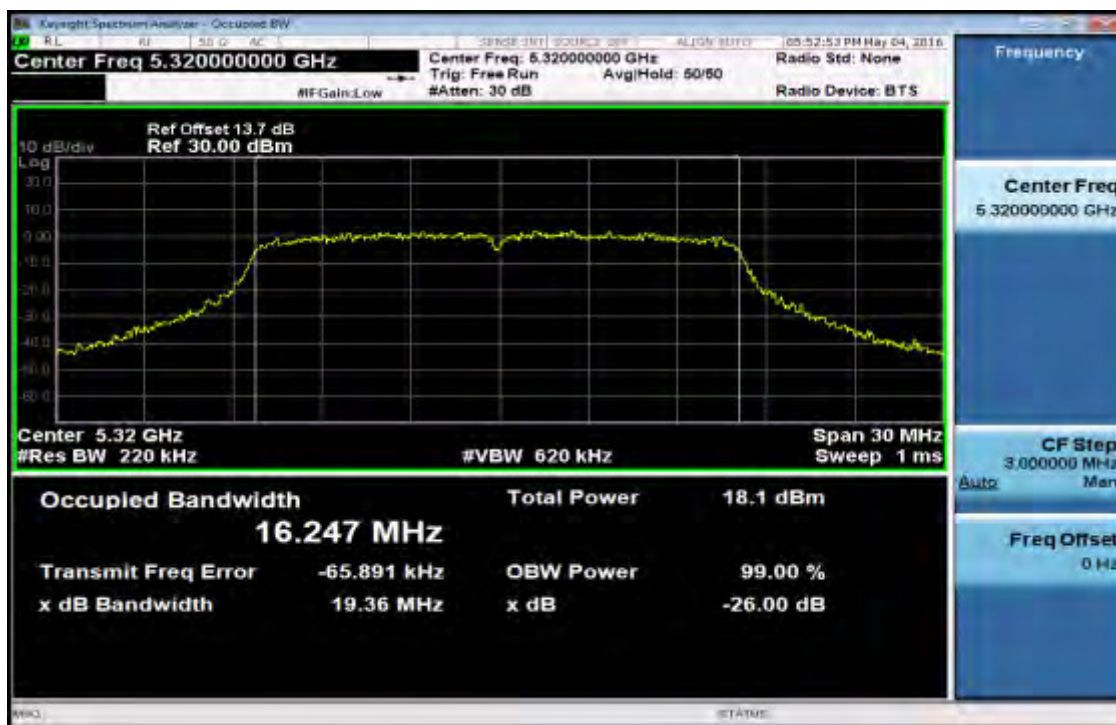
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26dB Band Width Test Data CH-High (5320MHz)



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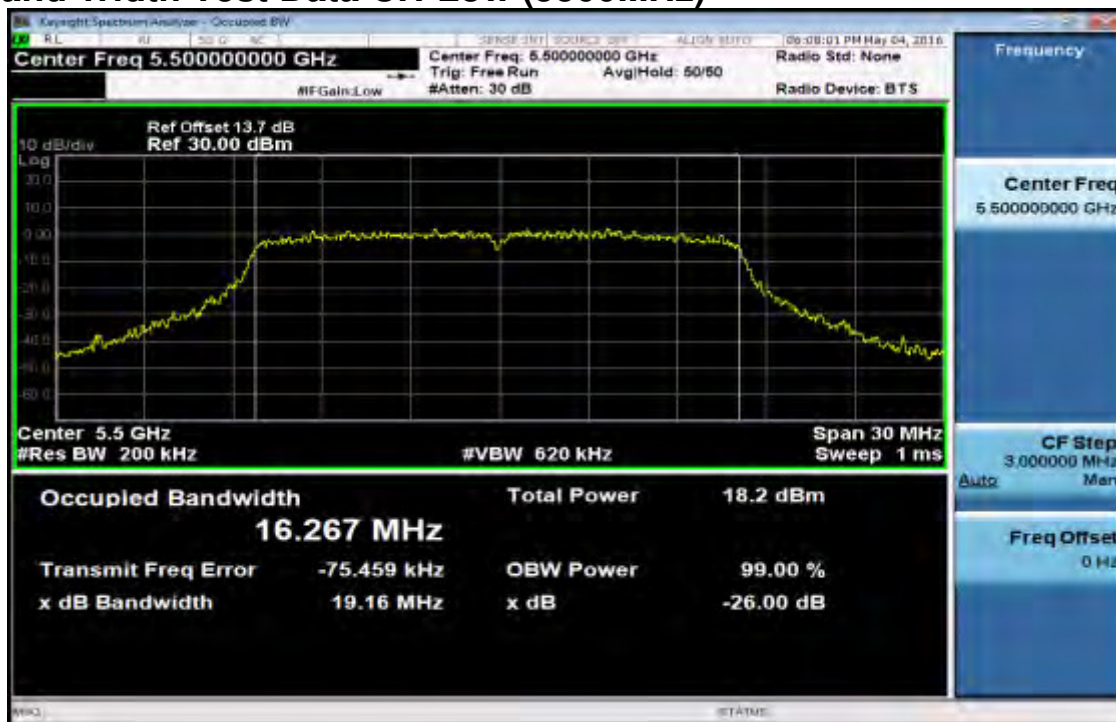
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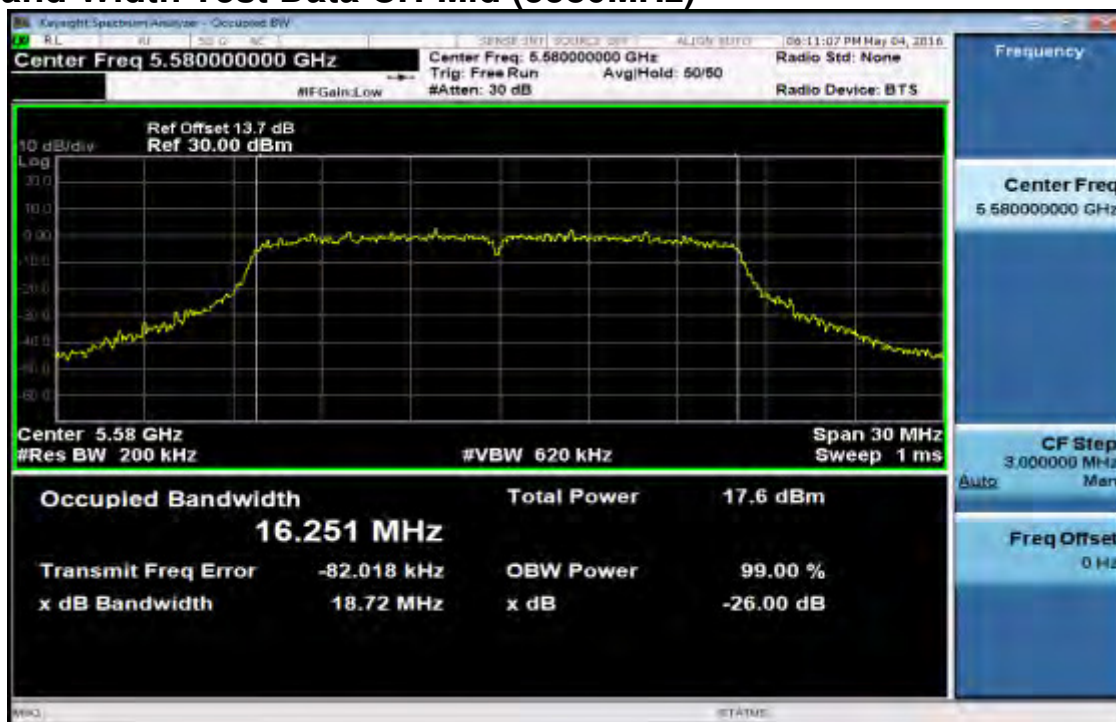
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802.11a, 5470~5725 MHz (Main)

26dB Band Width Test Data CH-Low (5500MHz)



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



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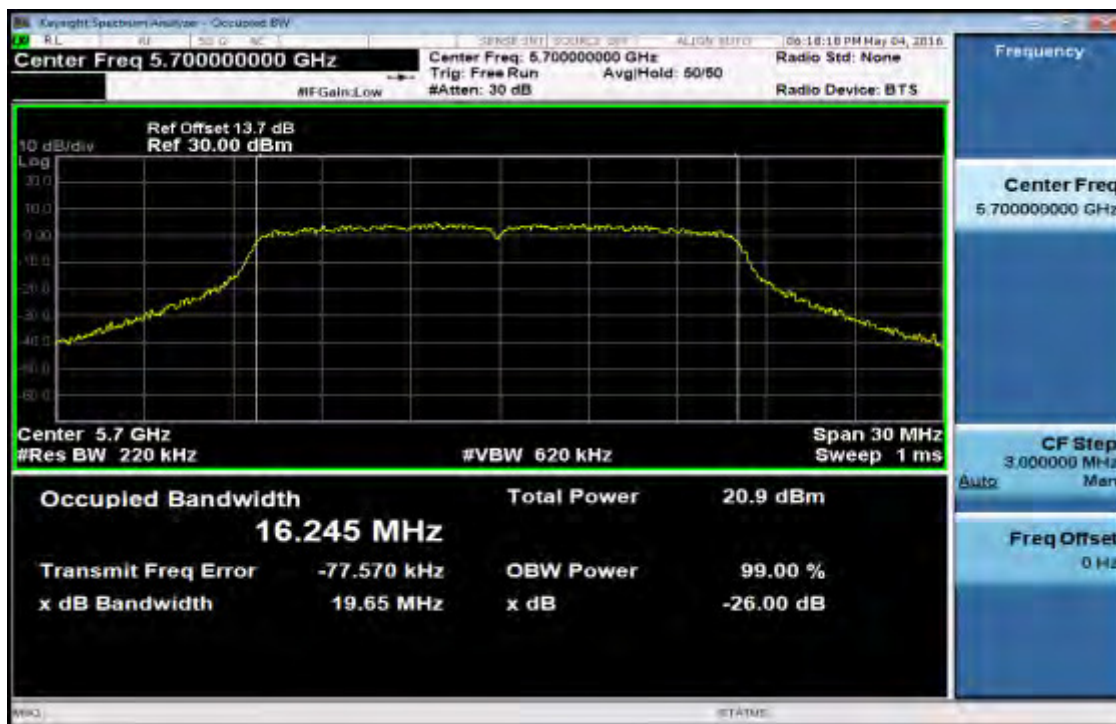
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26dB Band Width Test Data CH-High (5700MHz)



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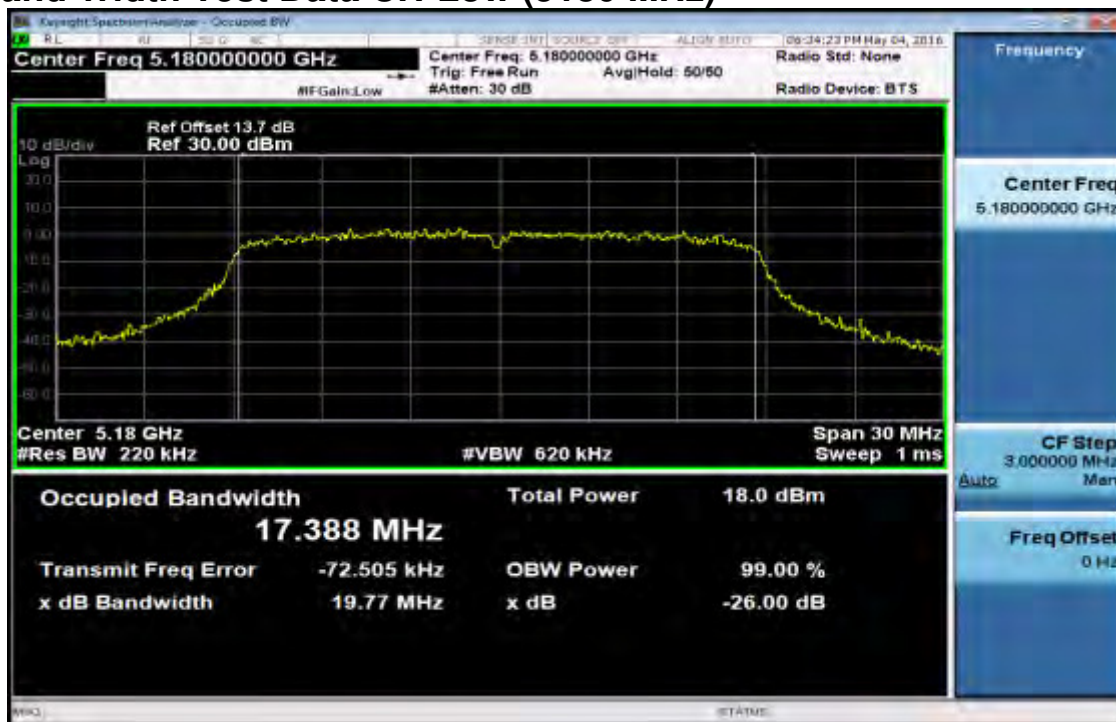
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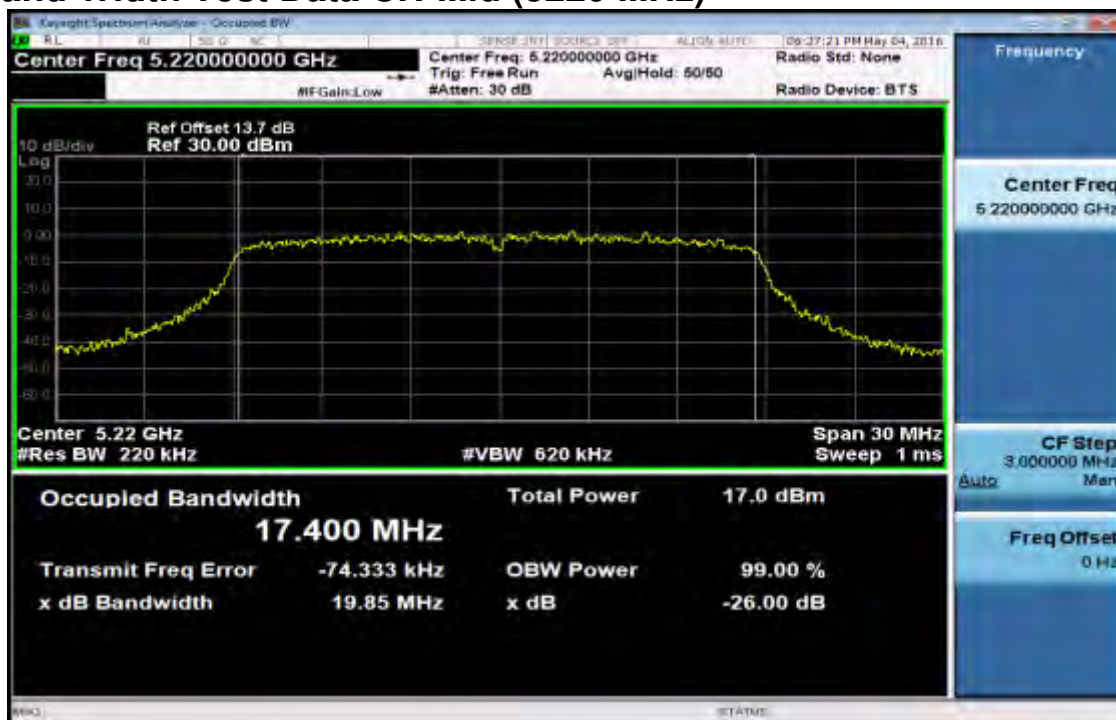
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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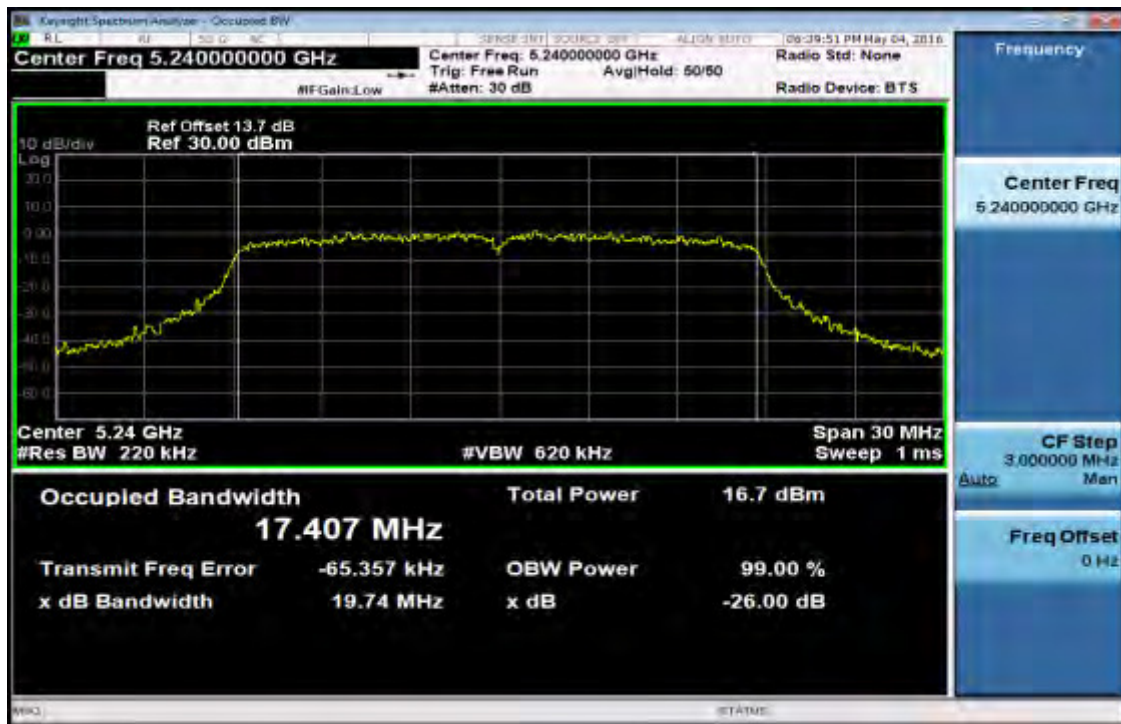
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26dB Band Width Test Data CH-High (5240 MHz)



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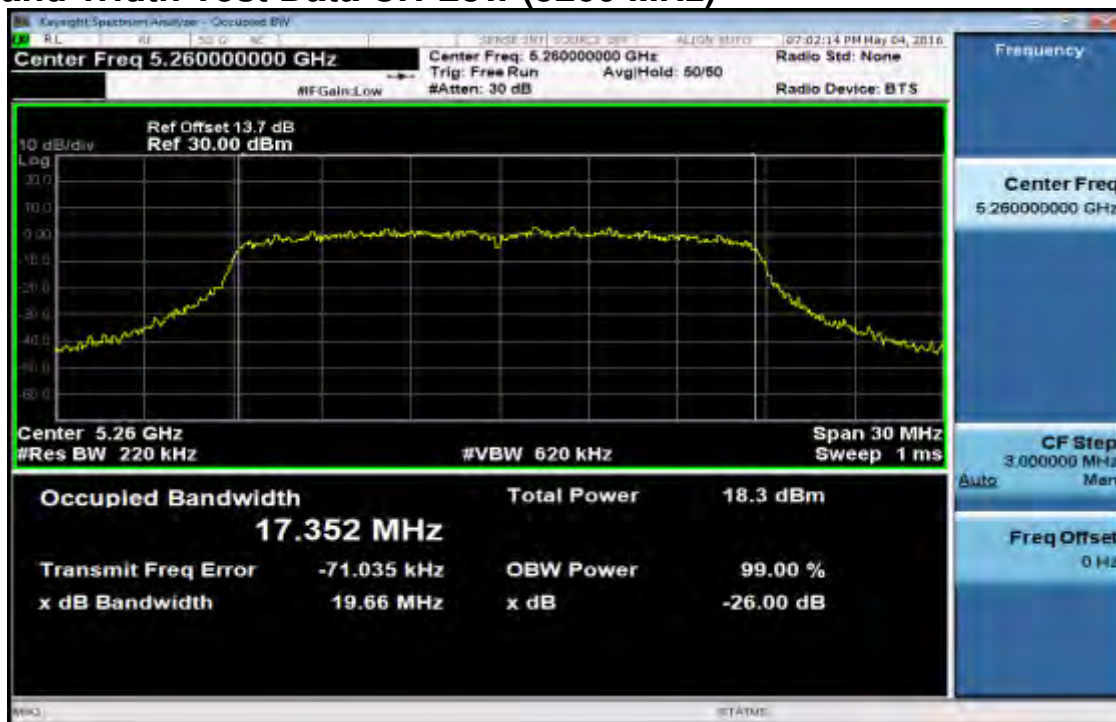
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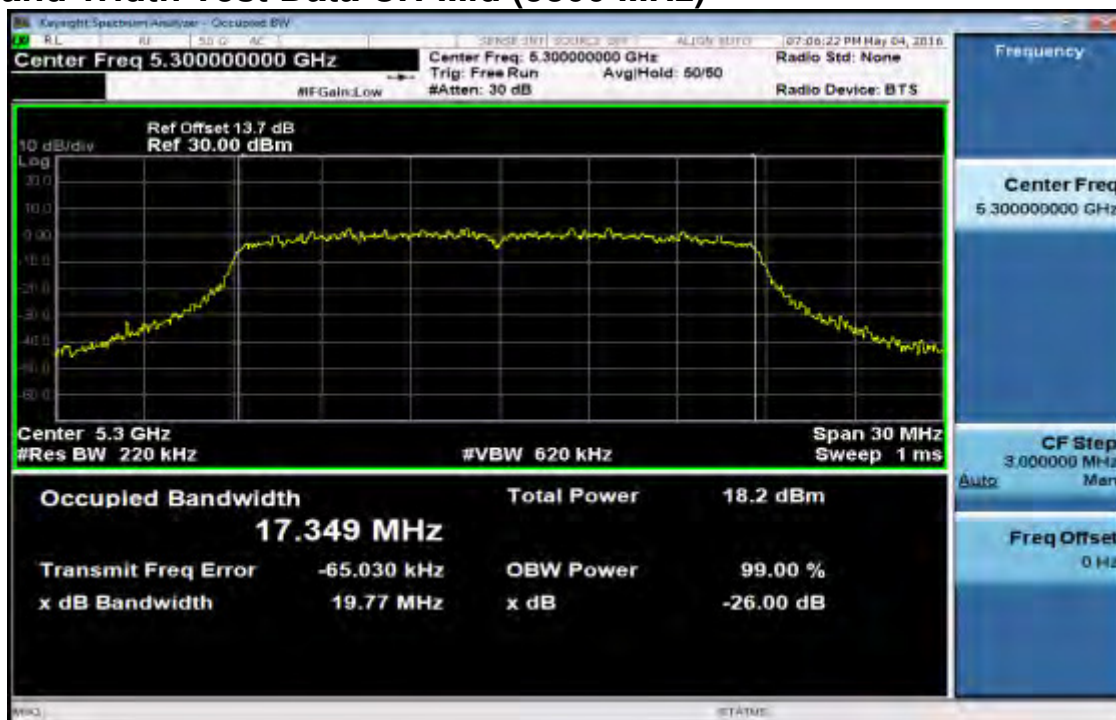
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802.11n HT20, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260 MHz)



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



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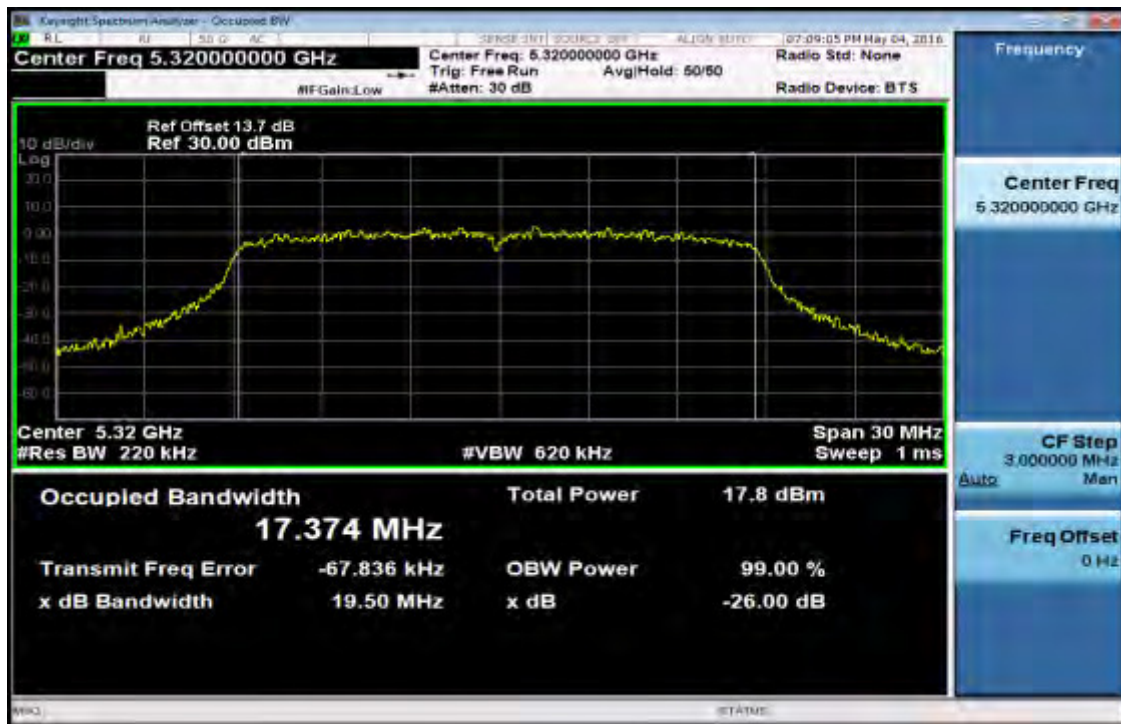
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26dB Band Width Test Data CH-High (5320 MHz)



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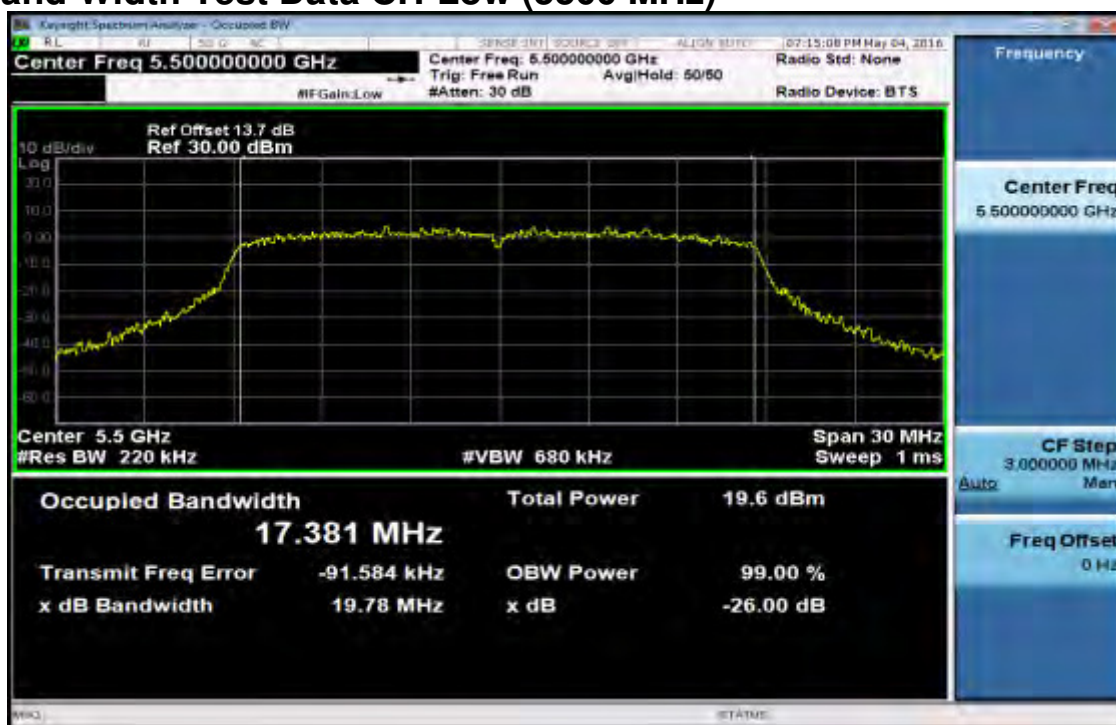
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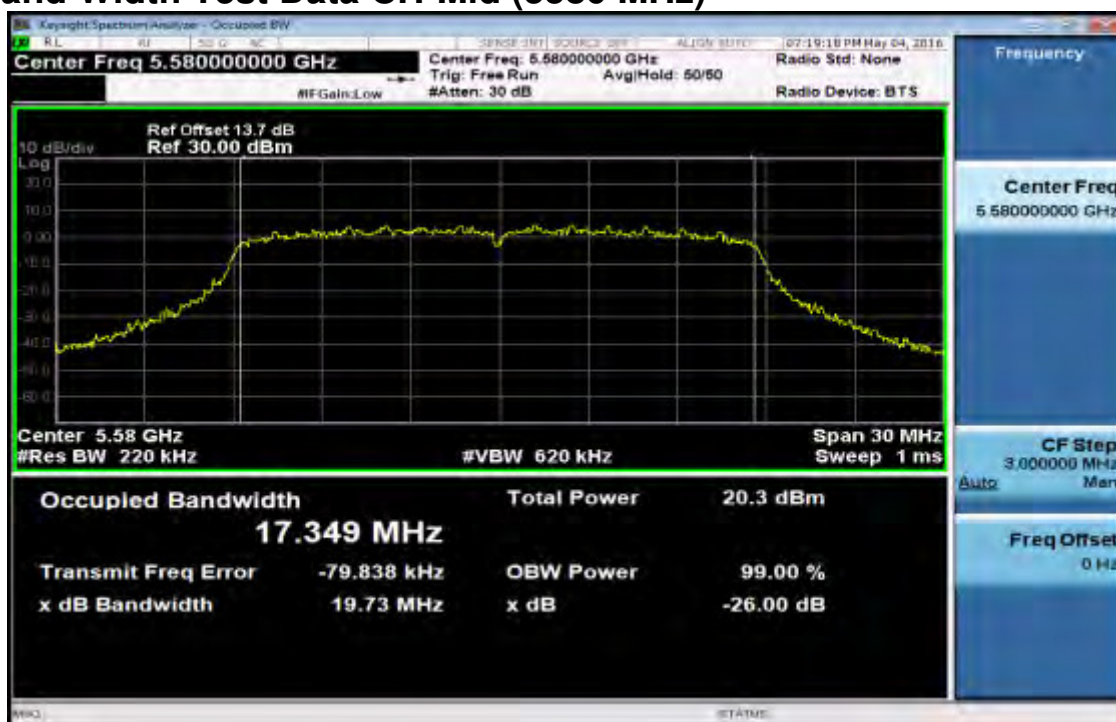
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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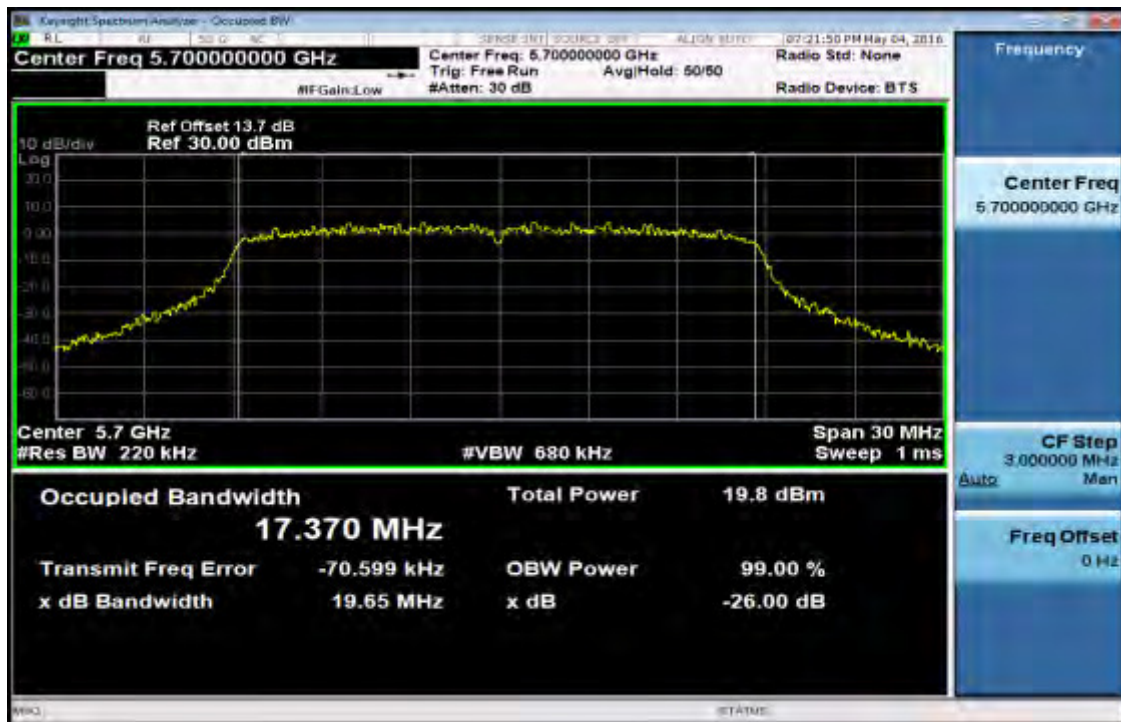
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26dB Band Width Test Data CH-High (5700 MHz)



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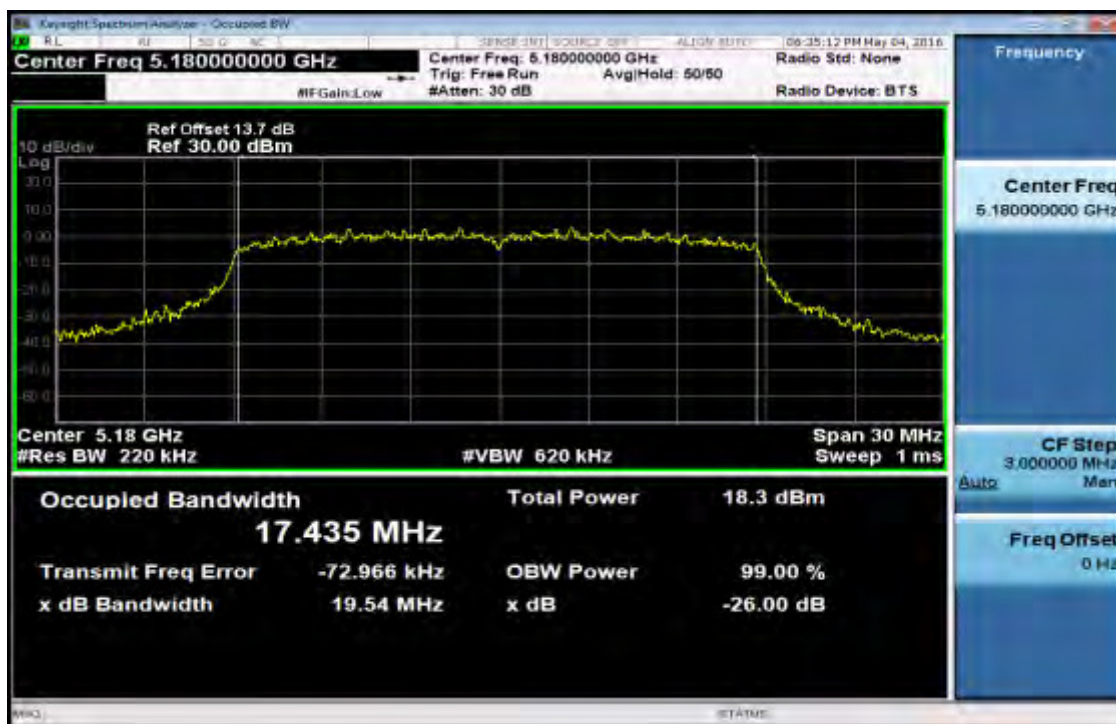
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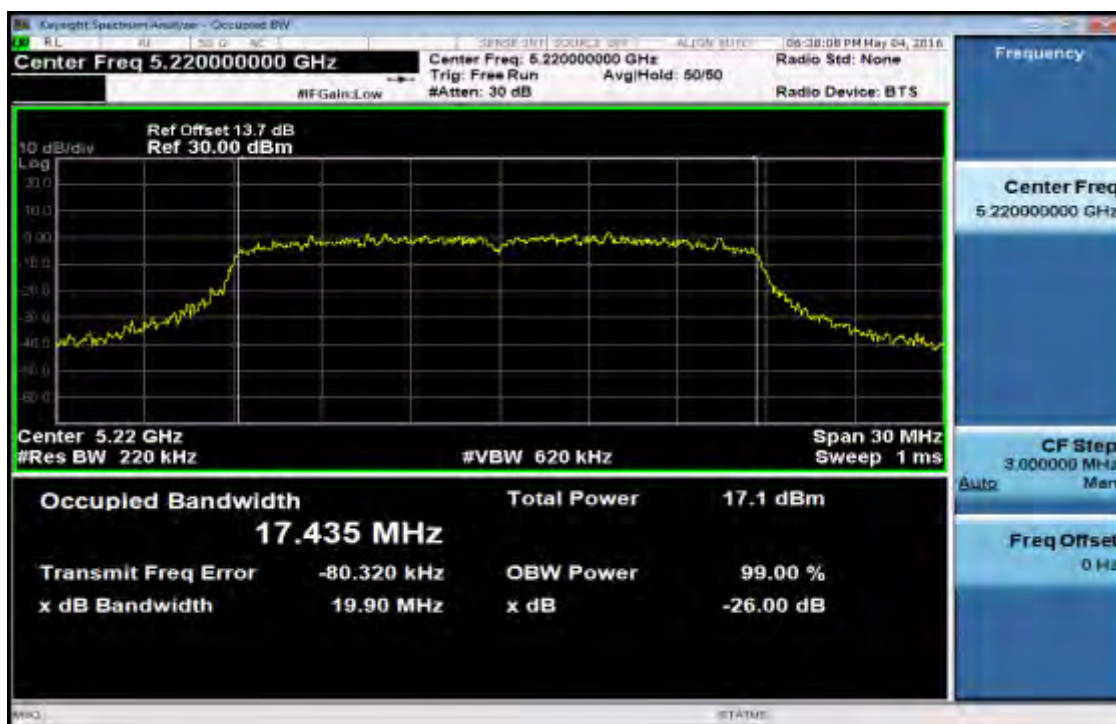
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802.11n HT20, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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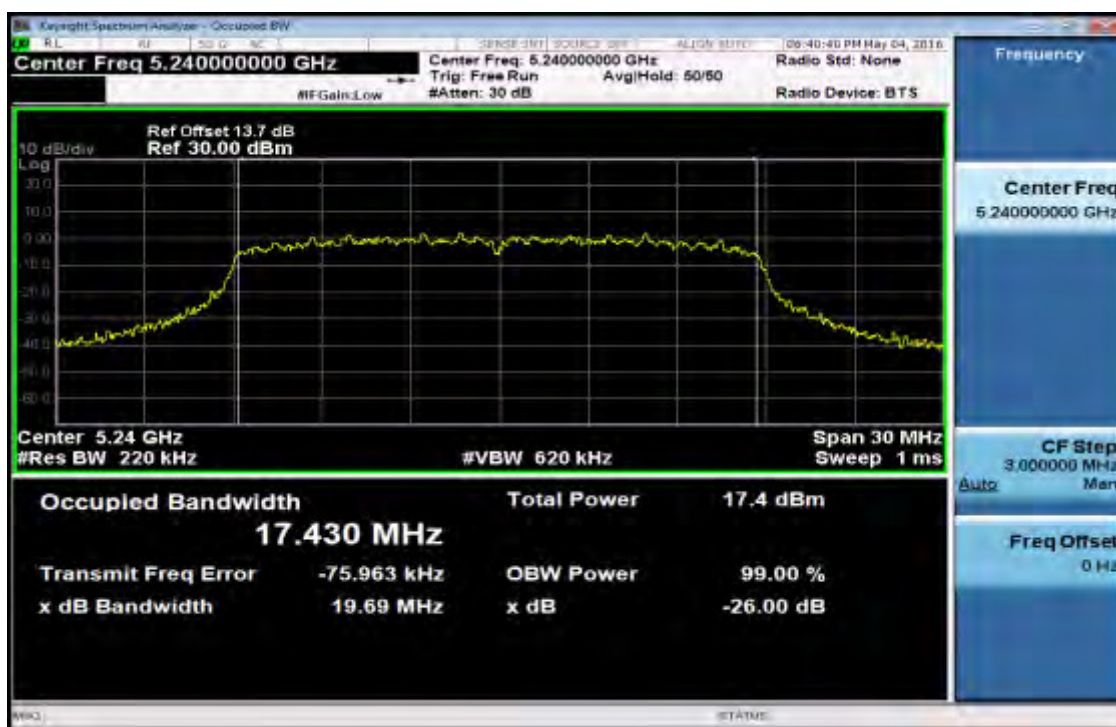
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26dB Band Width Test Data CH-High (5240 MHz)



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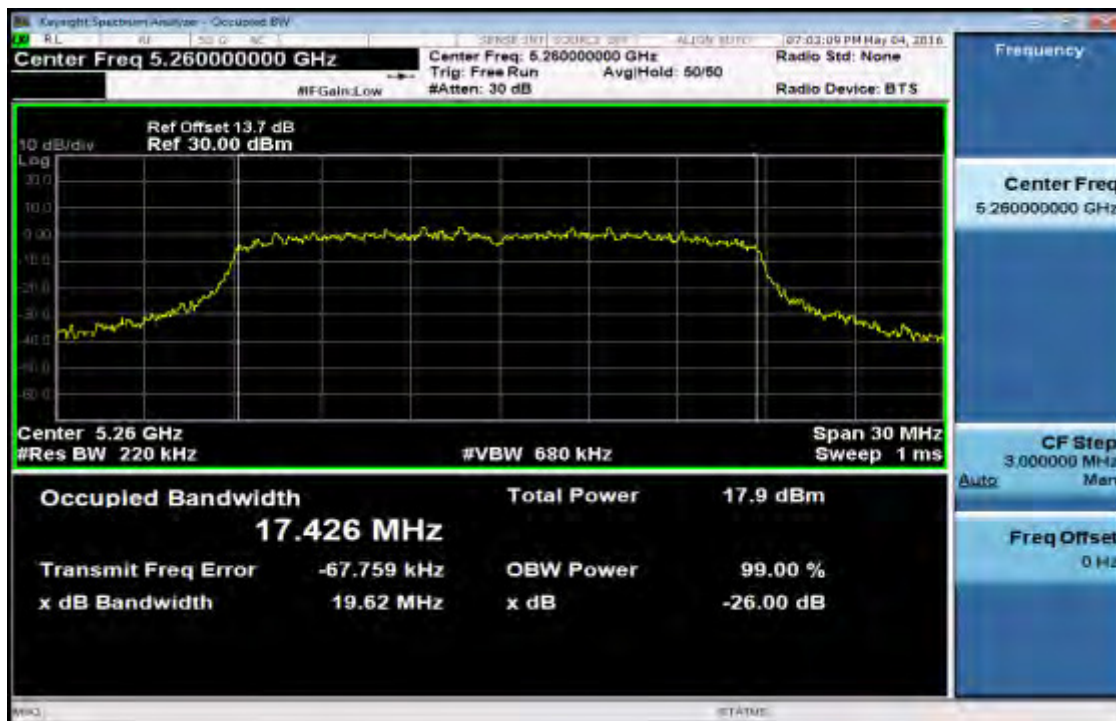
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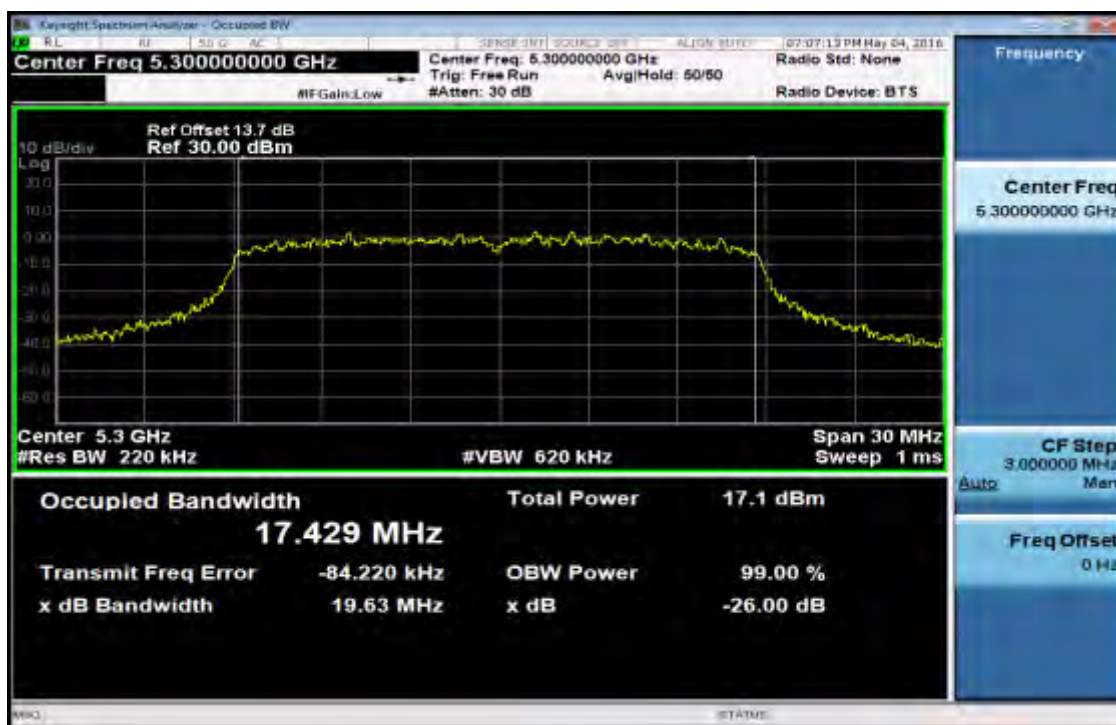
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802.11n HT20, 5250~5350 MHz (Aux1) 26dB Band Width Test Data CH-Low (5260 MHz)



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



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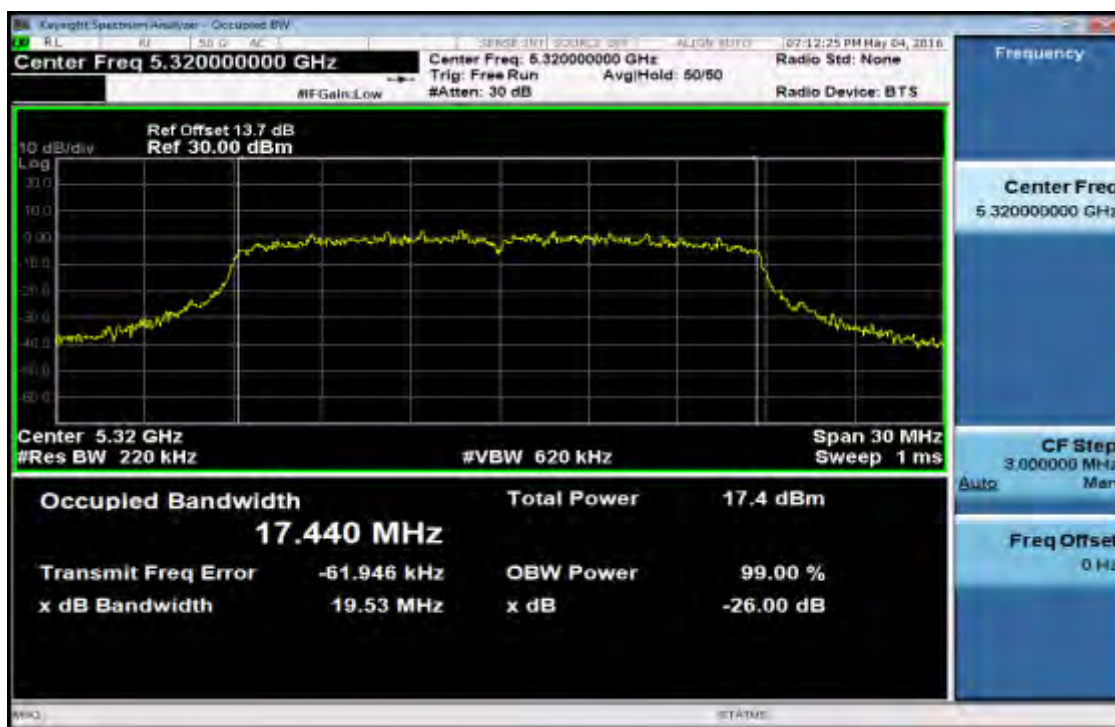
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26dB Band Width Test Data CH-High (5320 MHz)



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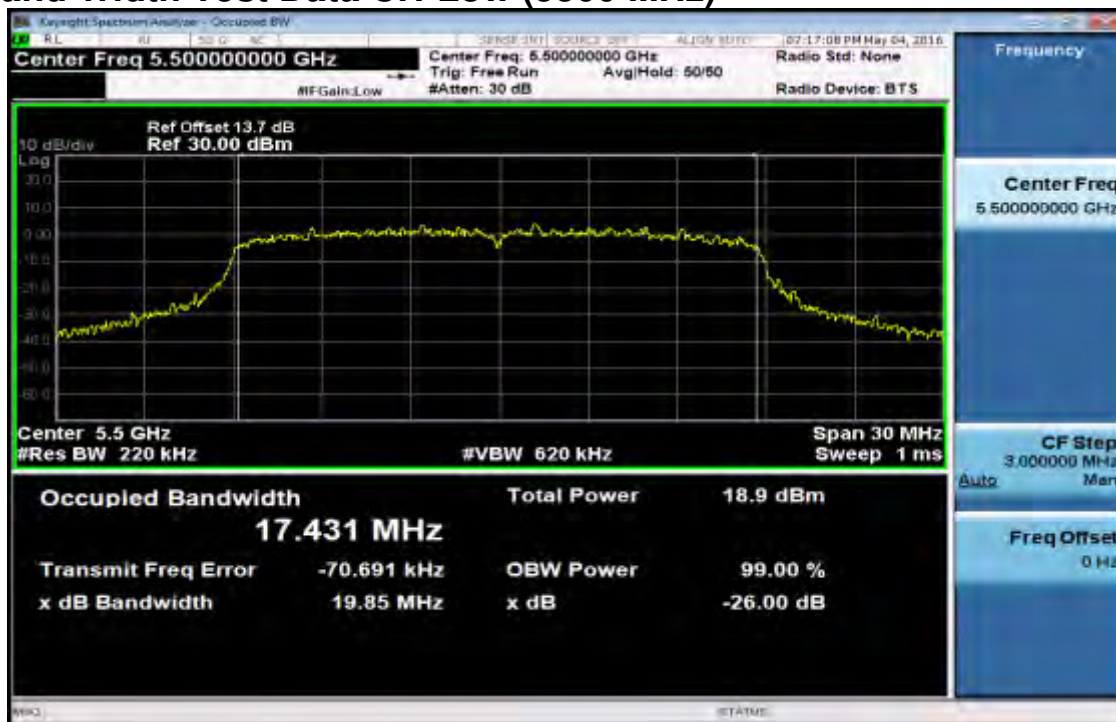
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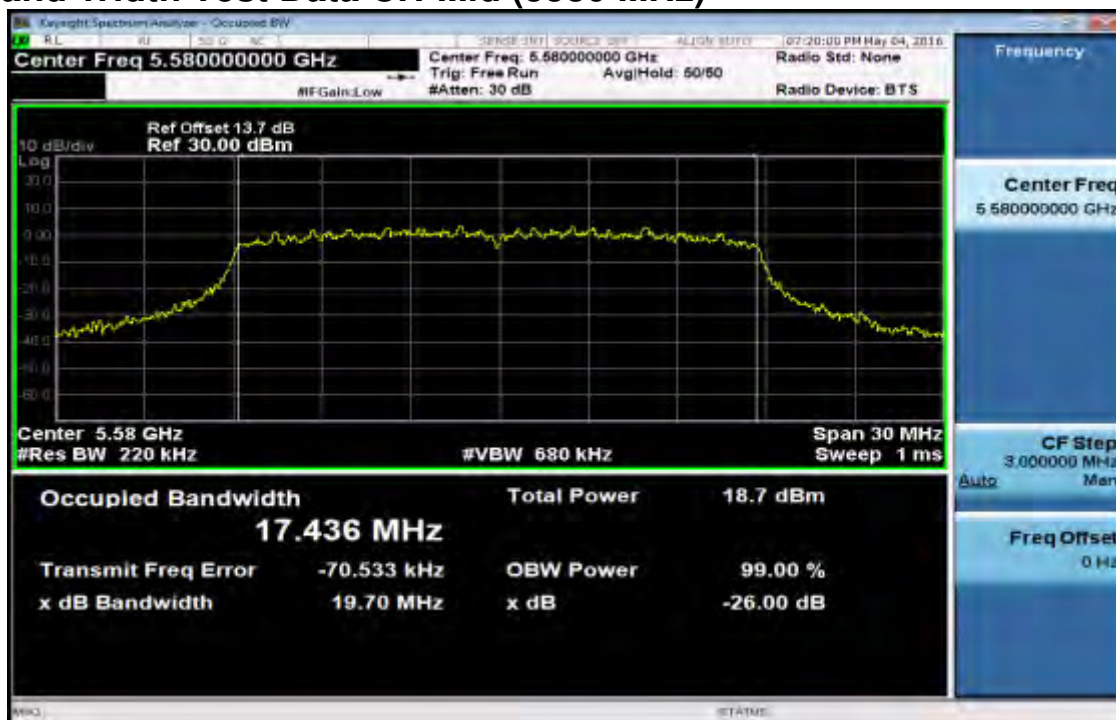
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802.11n HT20, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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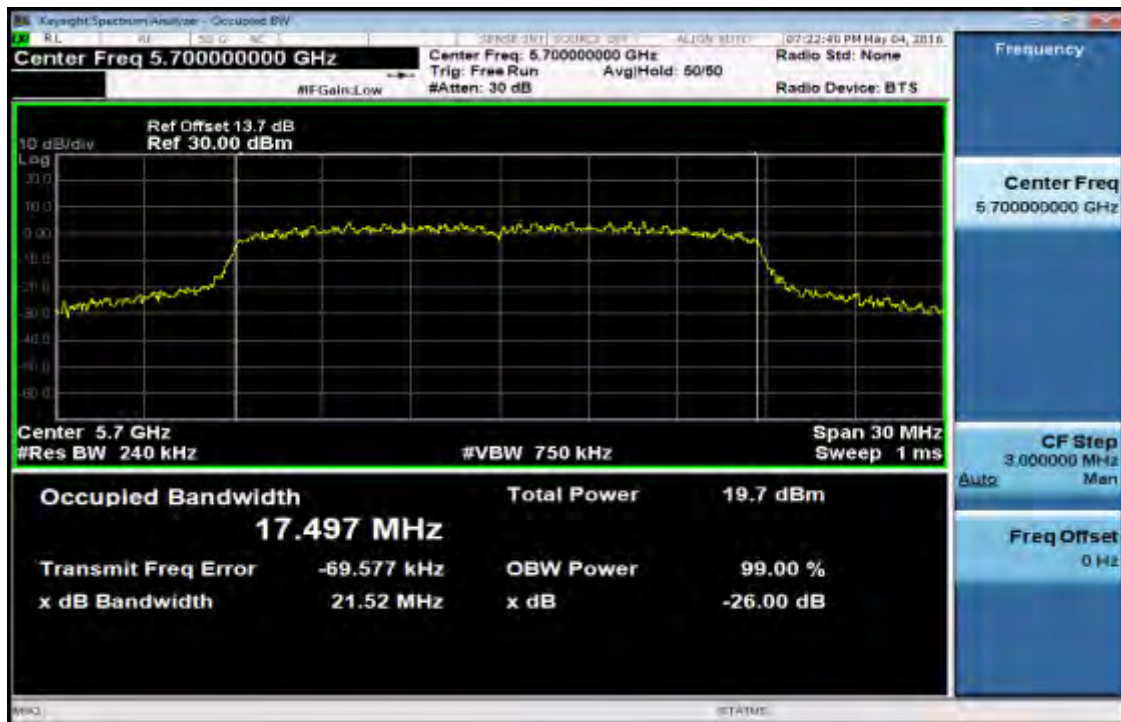
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26dB Band Width Test Data CH-High (5700 MHz)



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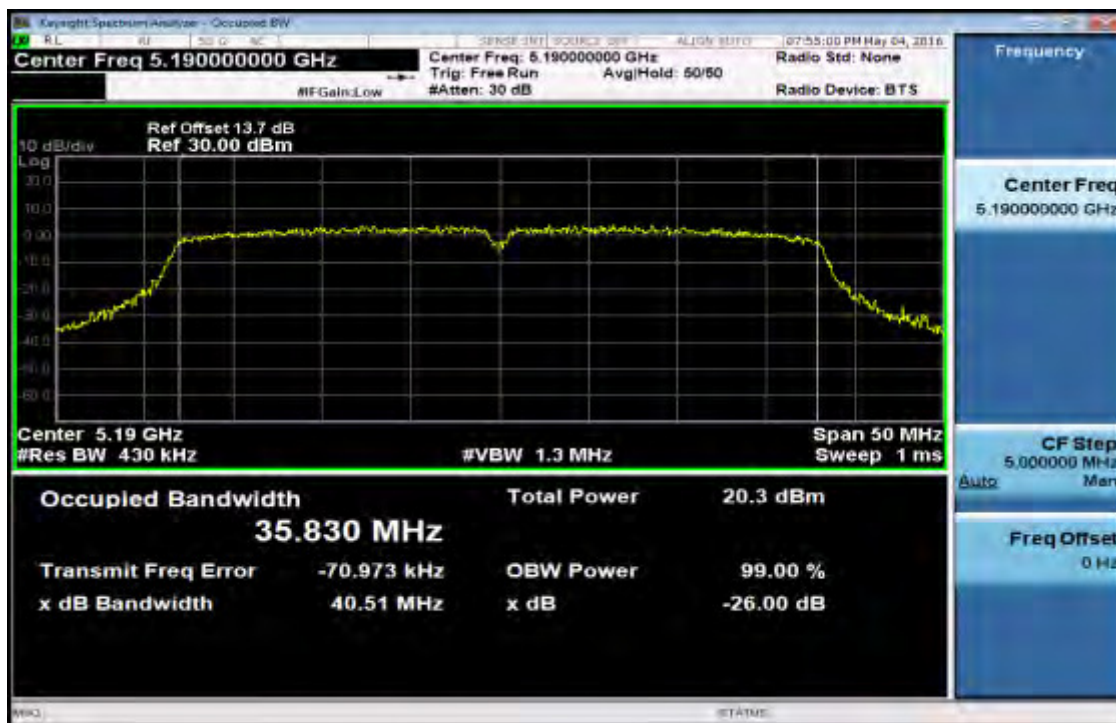
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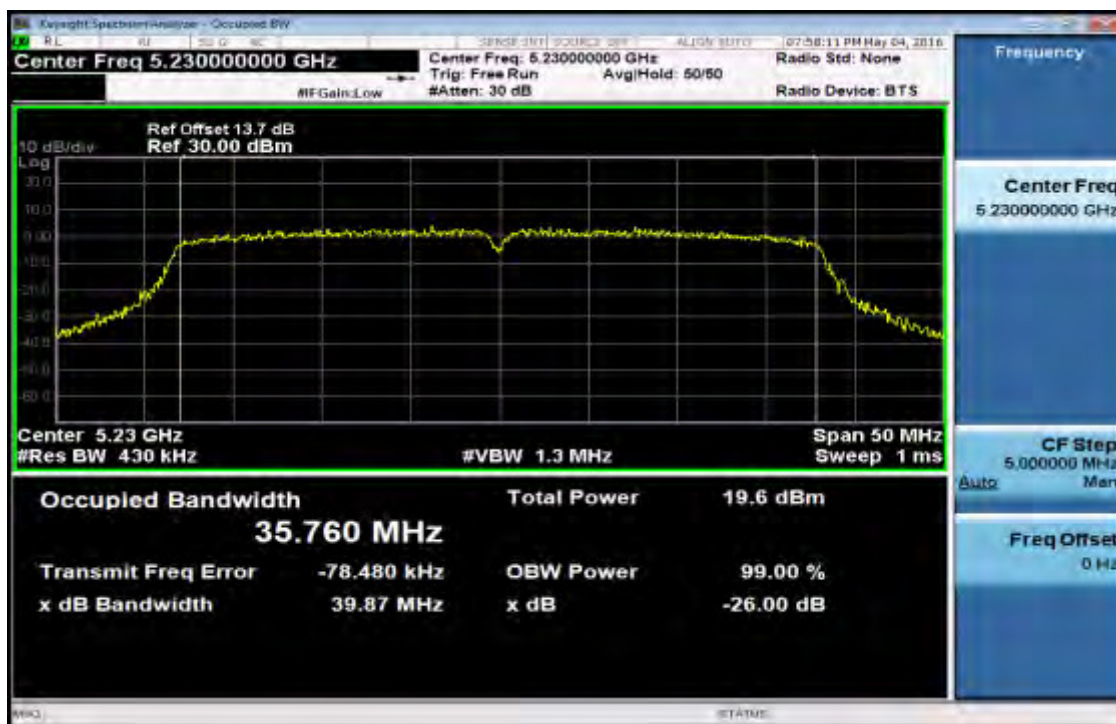
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802.11n HT40, 5150~5250 MHz (Main)

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



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



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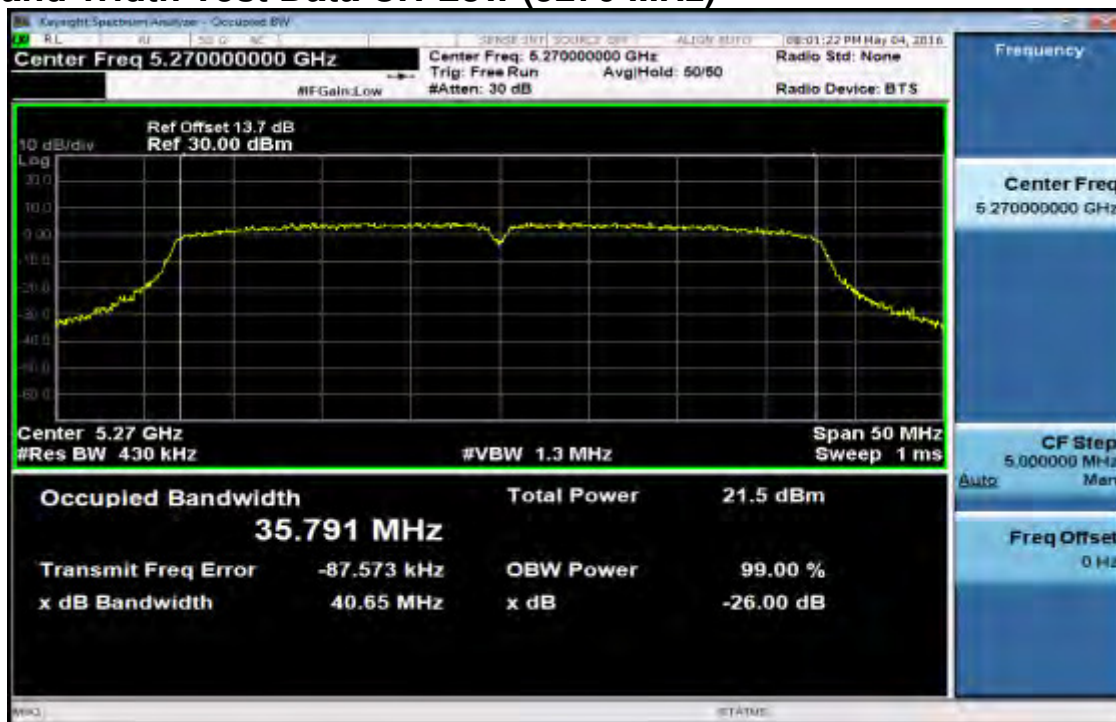
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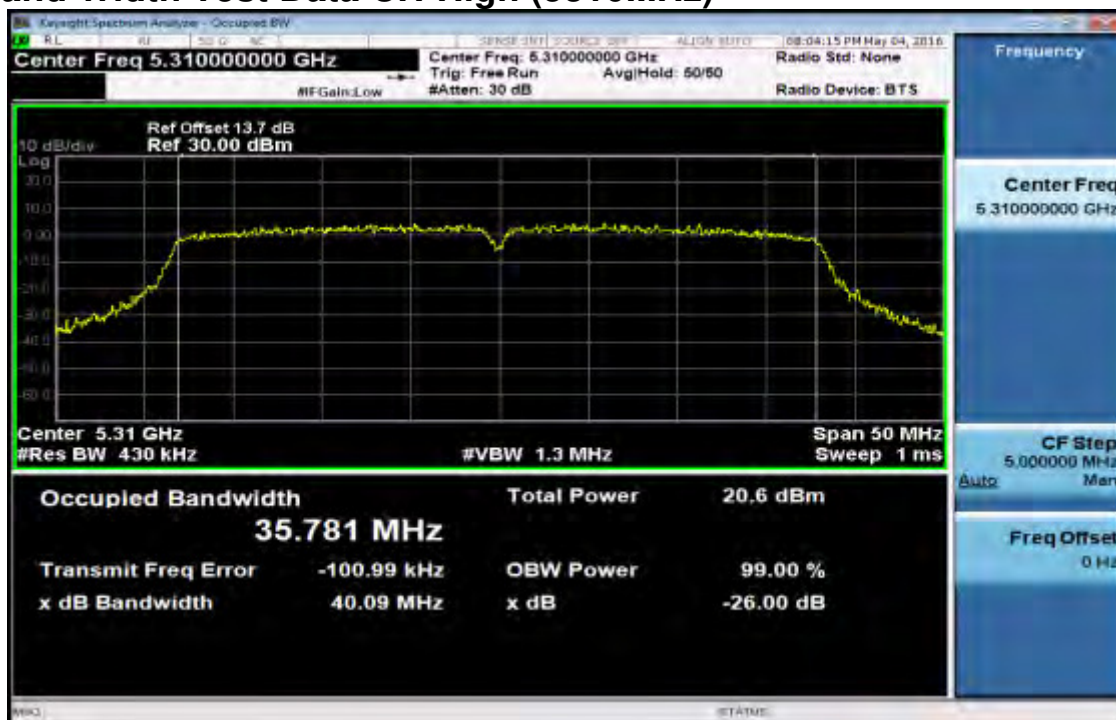
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802.11n HT40, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5270 MHz)



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



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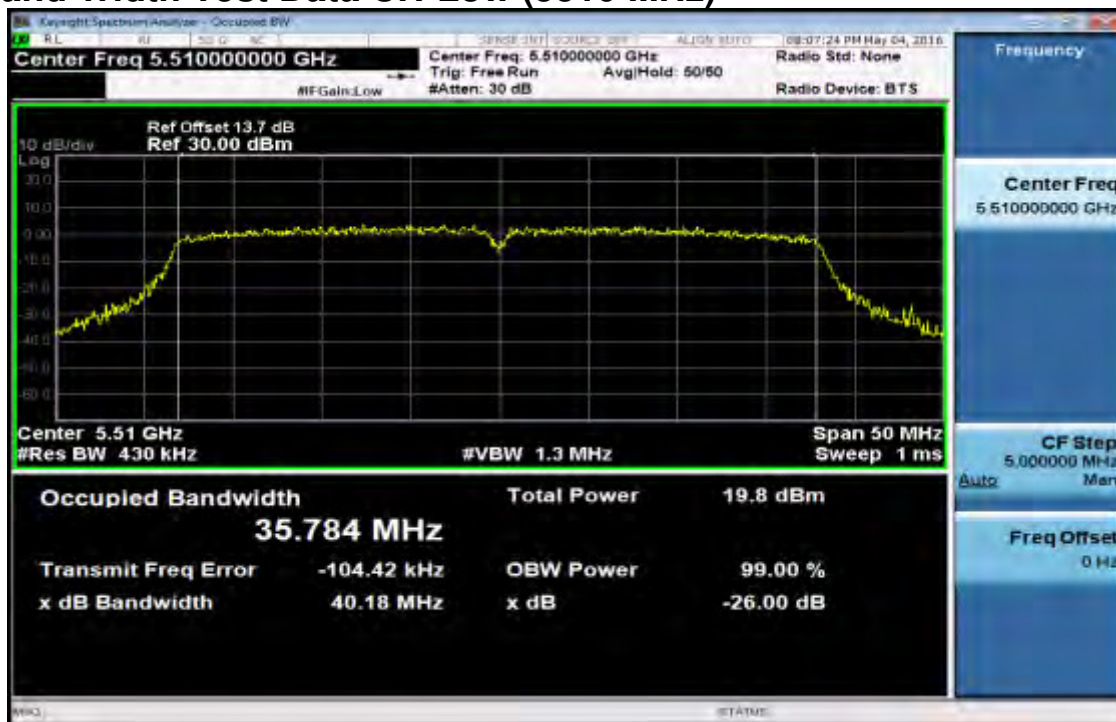
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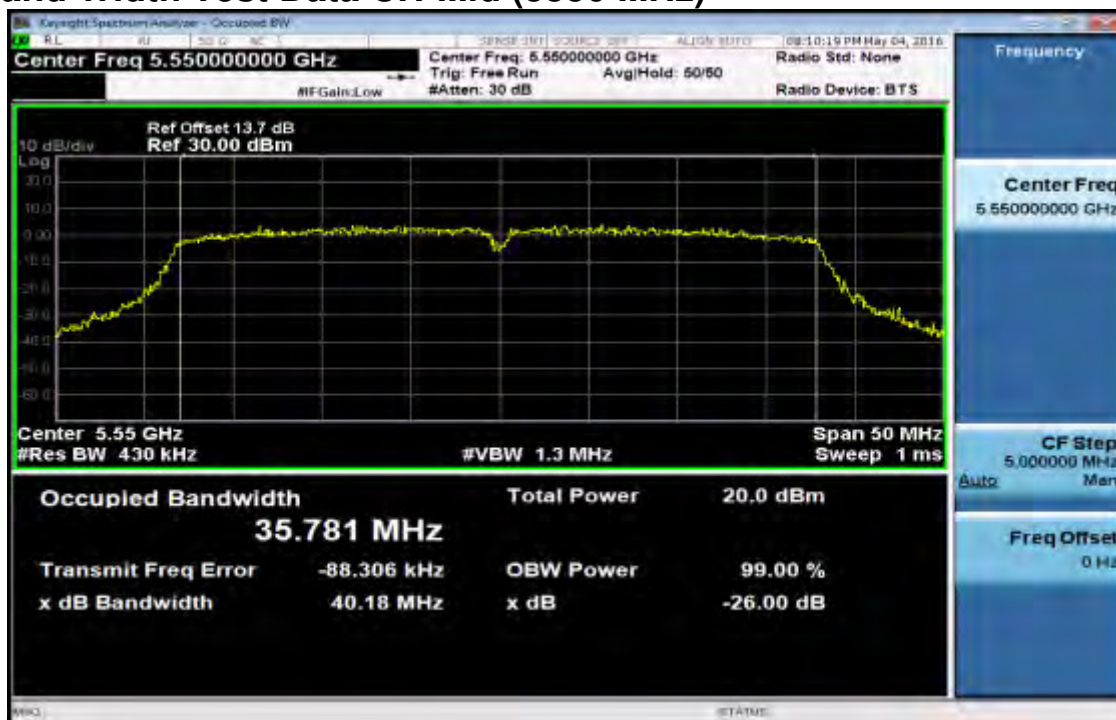
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)



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



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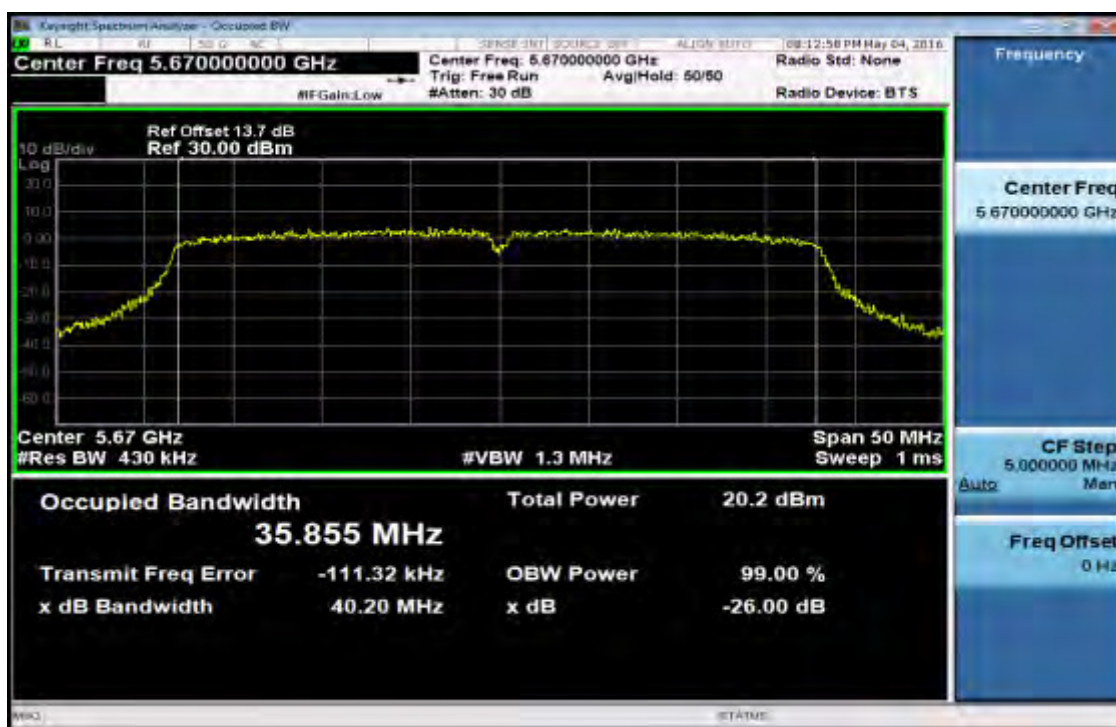
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26dB Band Width Test Data CH-High (5670 MHz)



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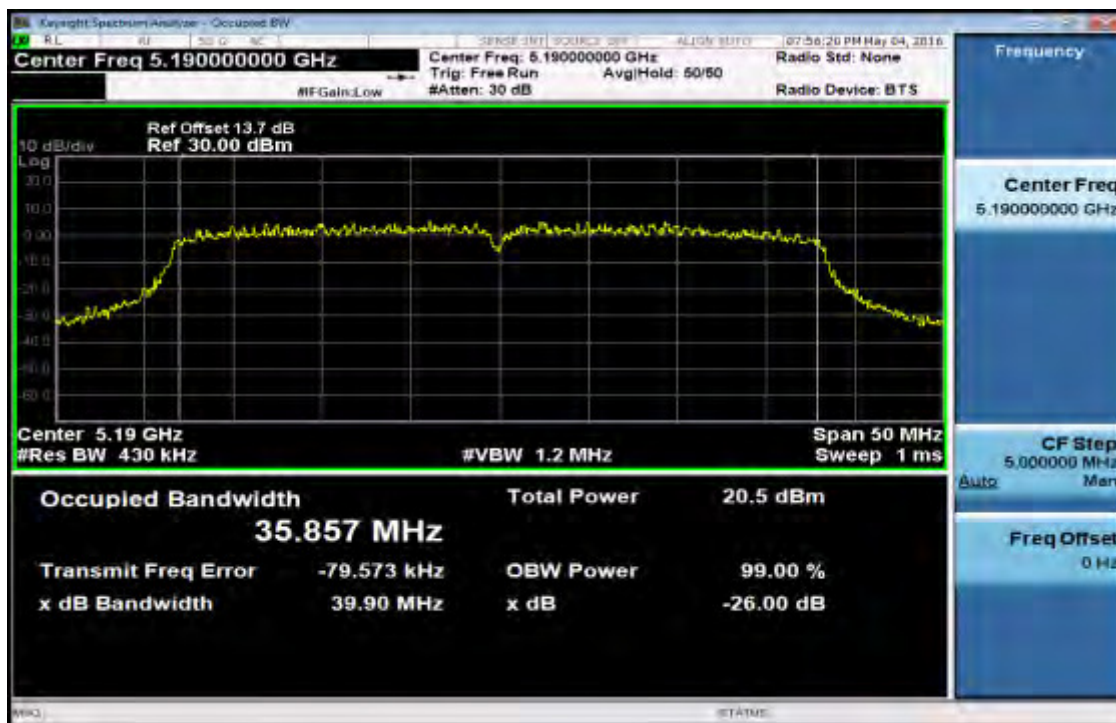
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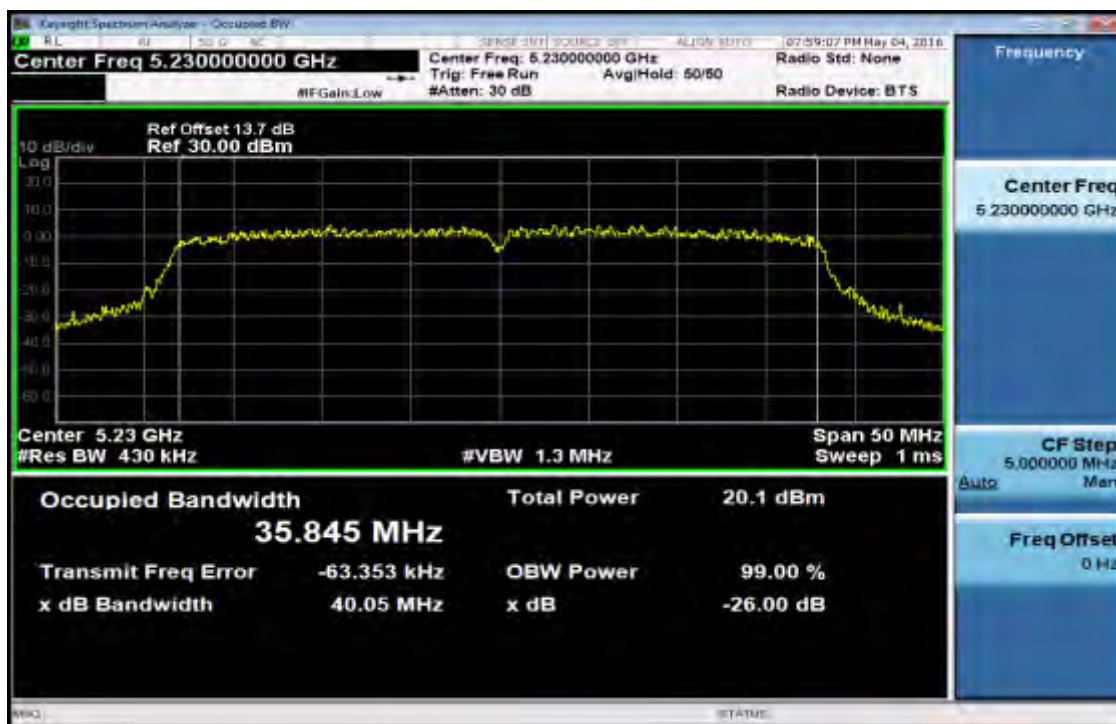
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802.11n HT40, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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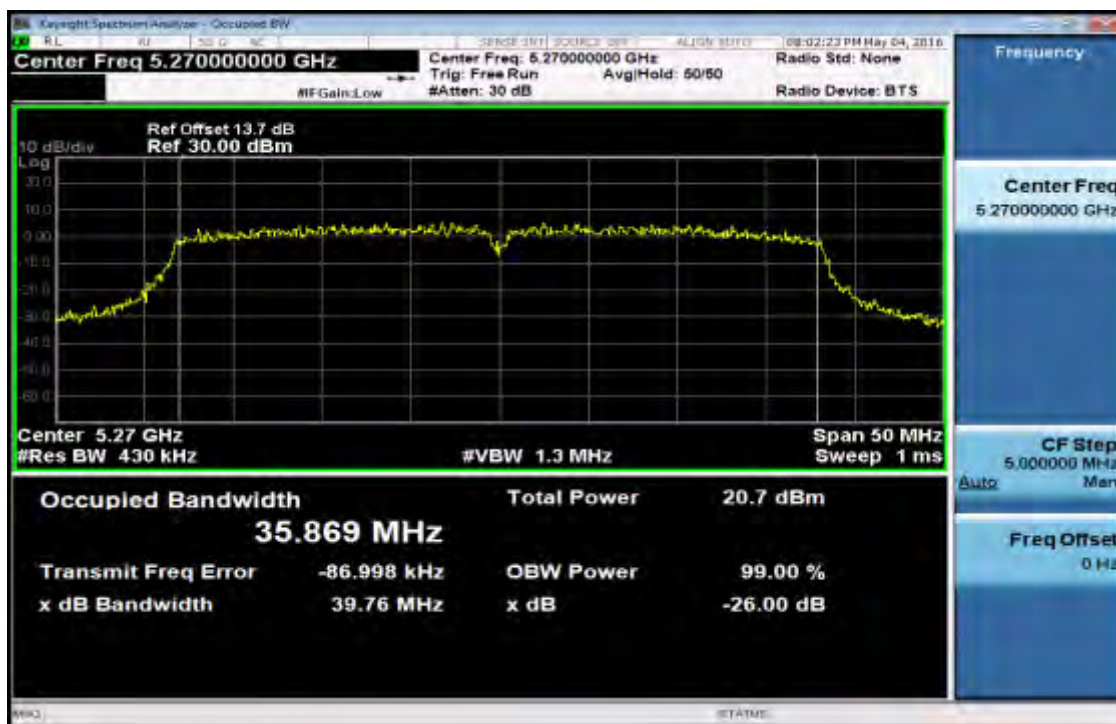
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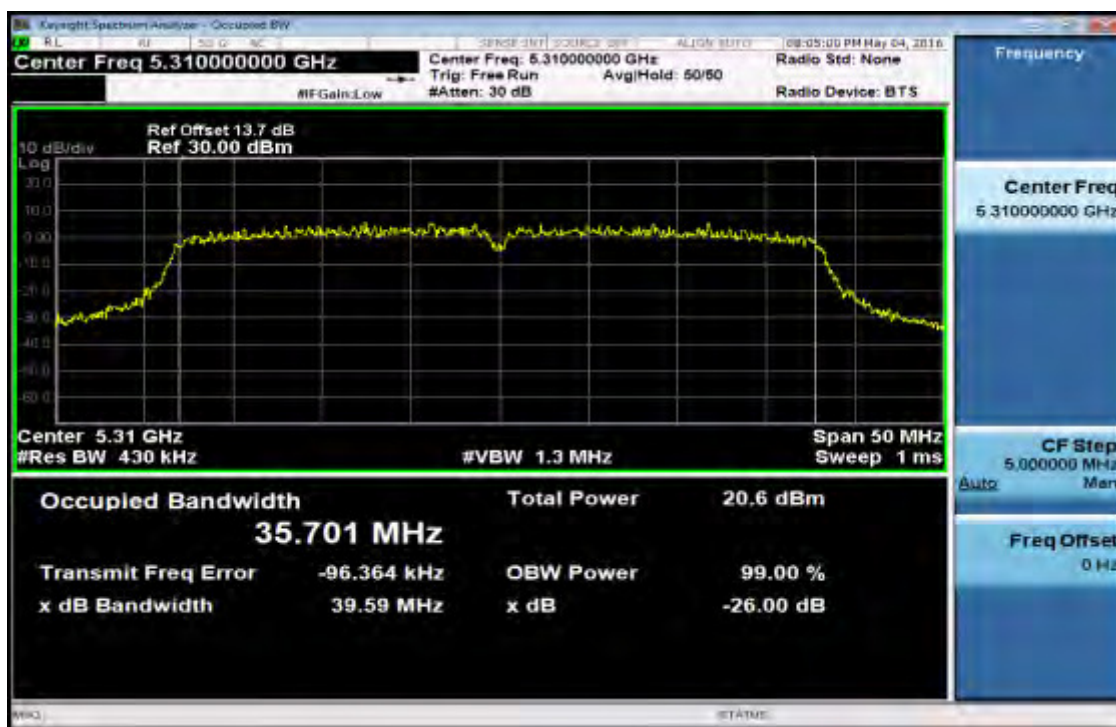
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802.11n HT40, 5250~5350 MHz (Aux1) 26dB Band Width Test Data CH-Low (5270 MHz)



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



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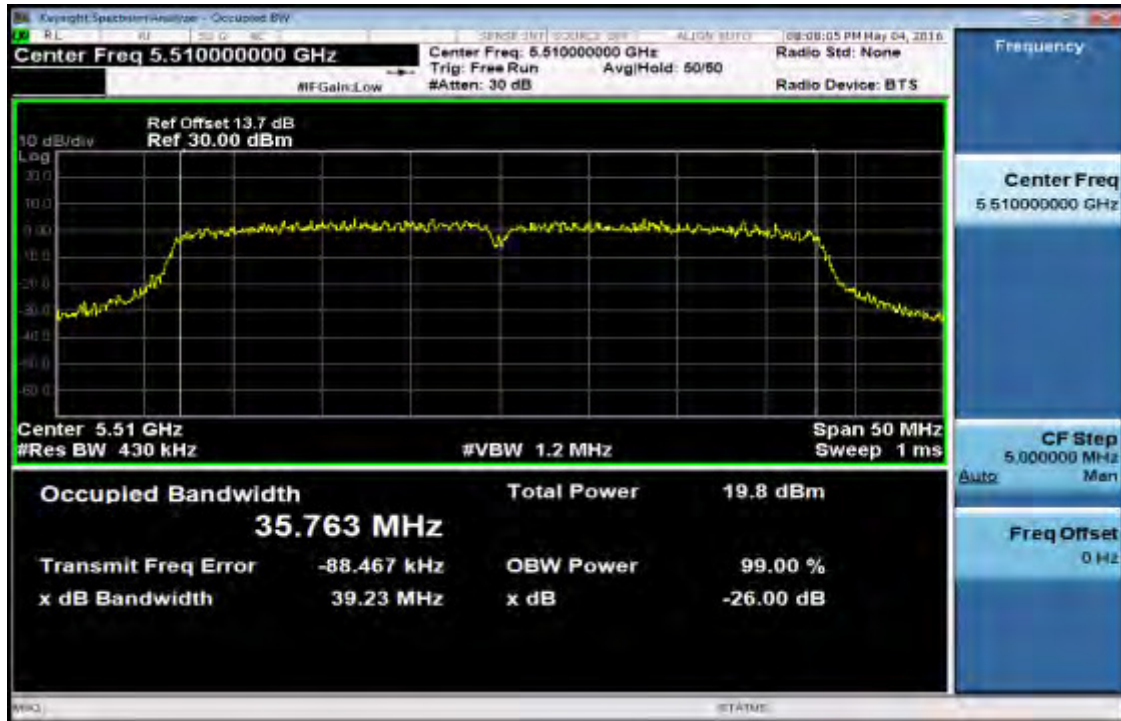
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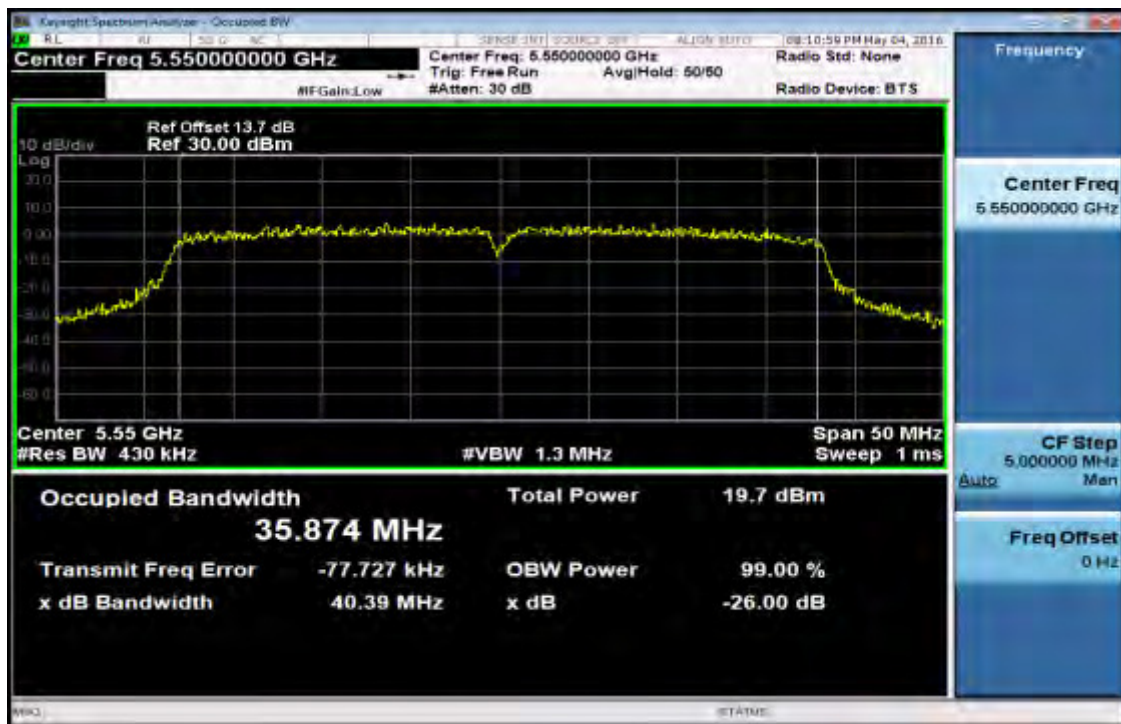
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802.11n HT40, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-Low (5510 MHz)



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



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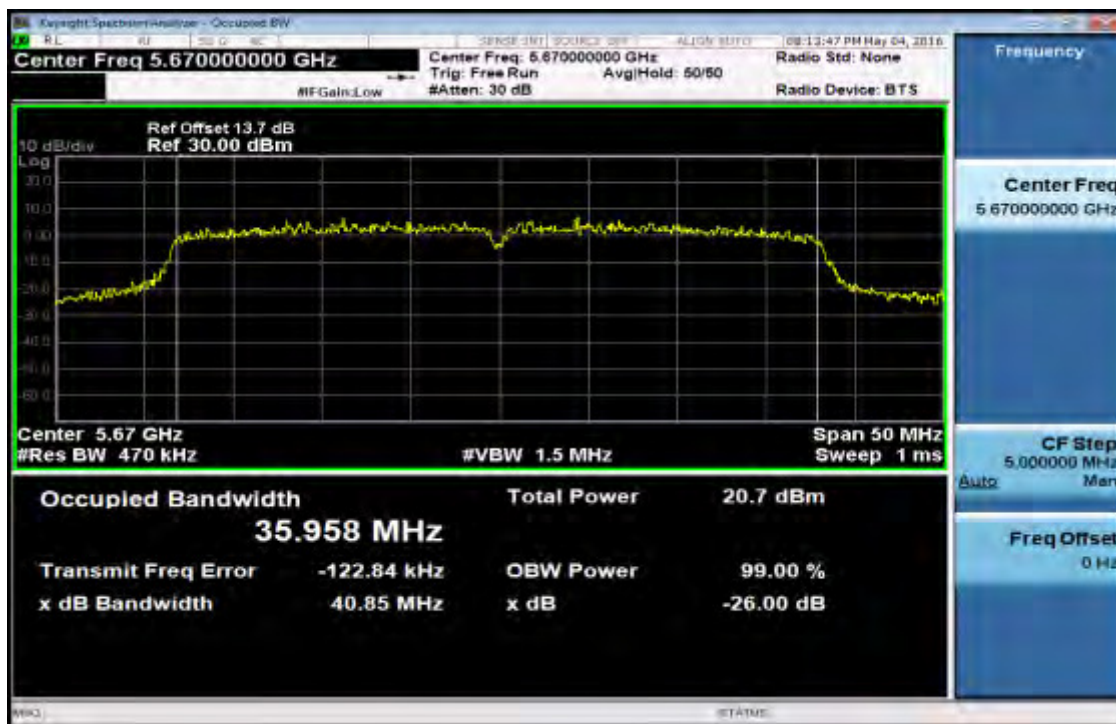
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26dB Band Width Test Data CH-High (5670 MHz)



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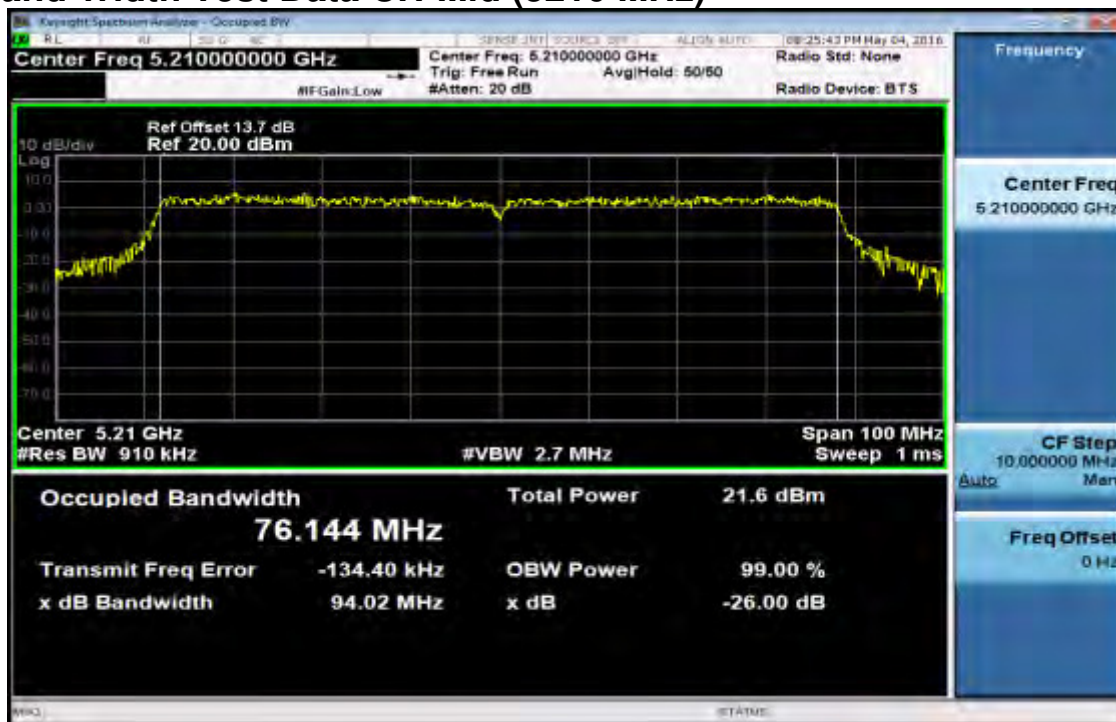
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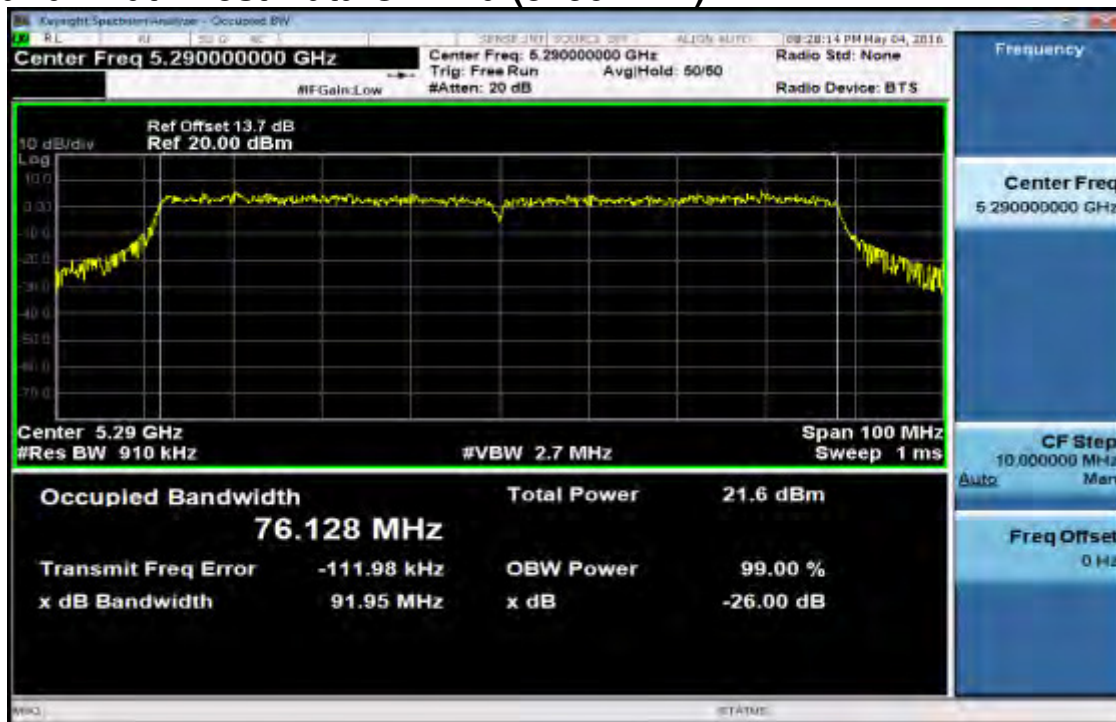
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



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



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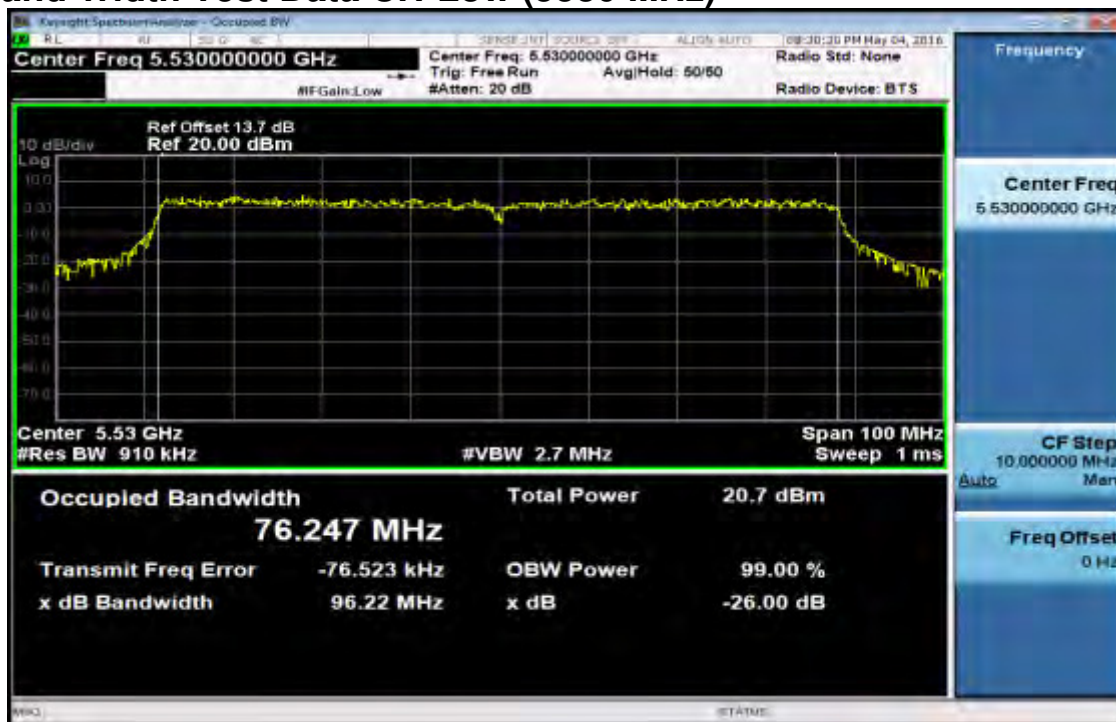
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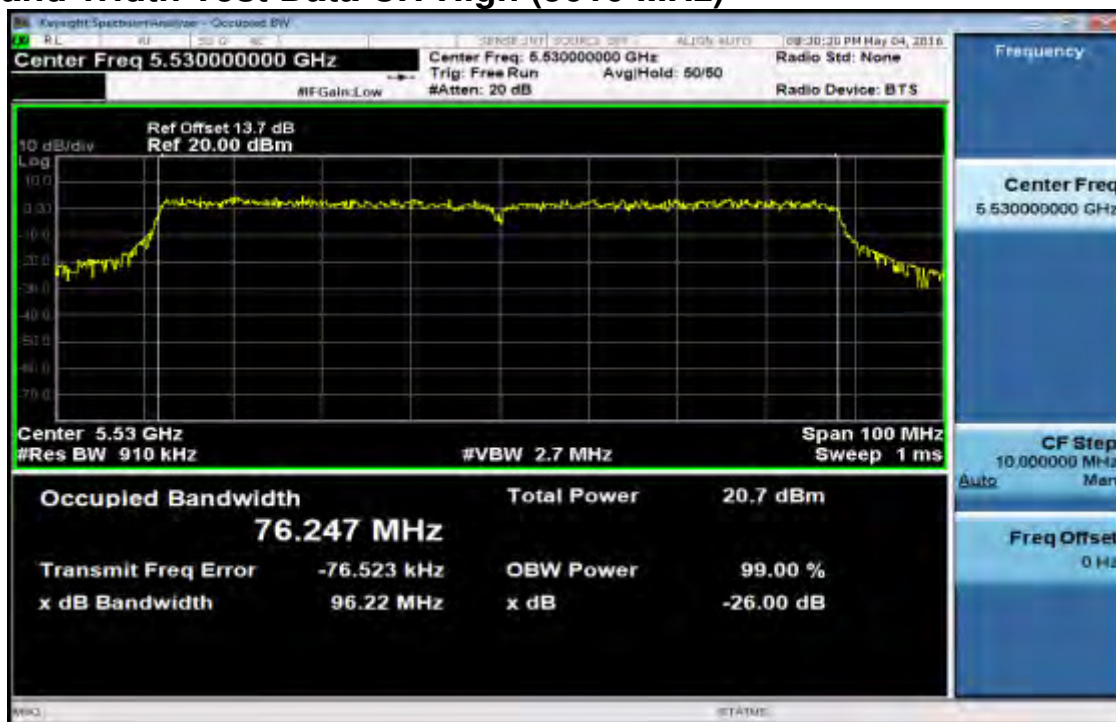
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802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-High (5610 MHz)



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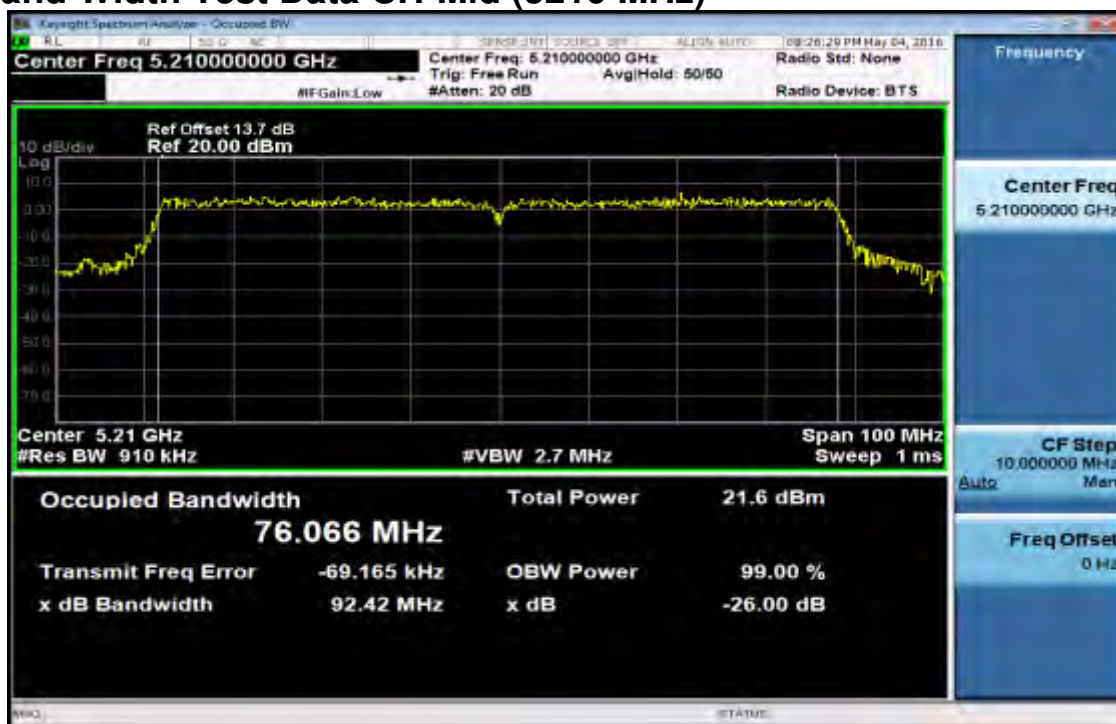
t (886-2) 2299-3279

f (886-2) 2298-0488

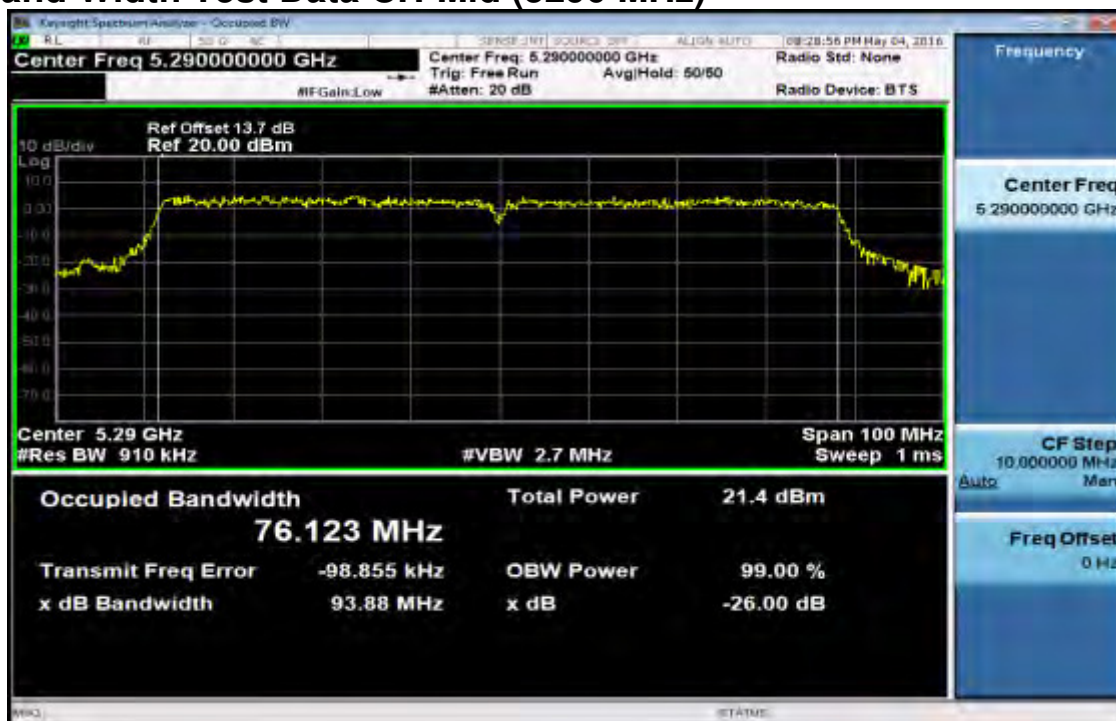
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802.11ac VHT80, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Mid (5210 MHz)



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



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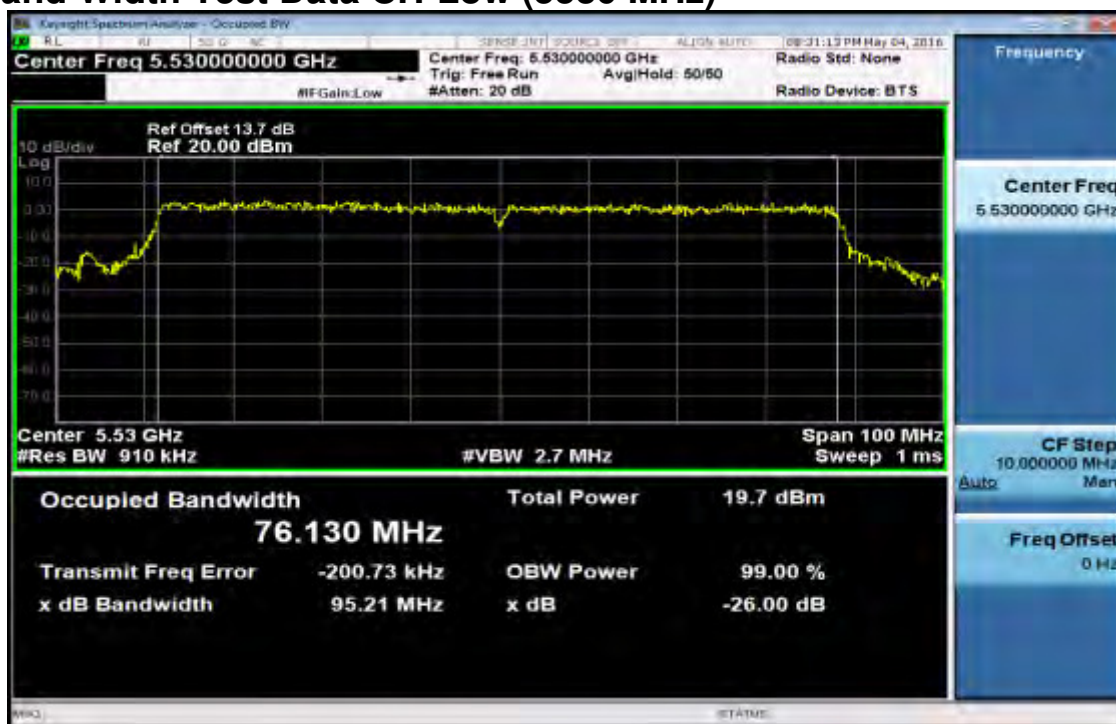
t (886-2) 2299-3279

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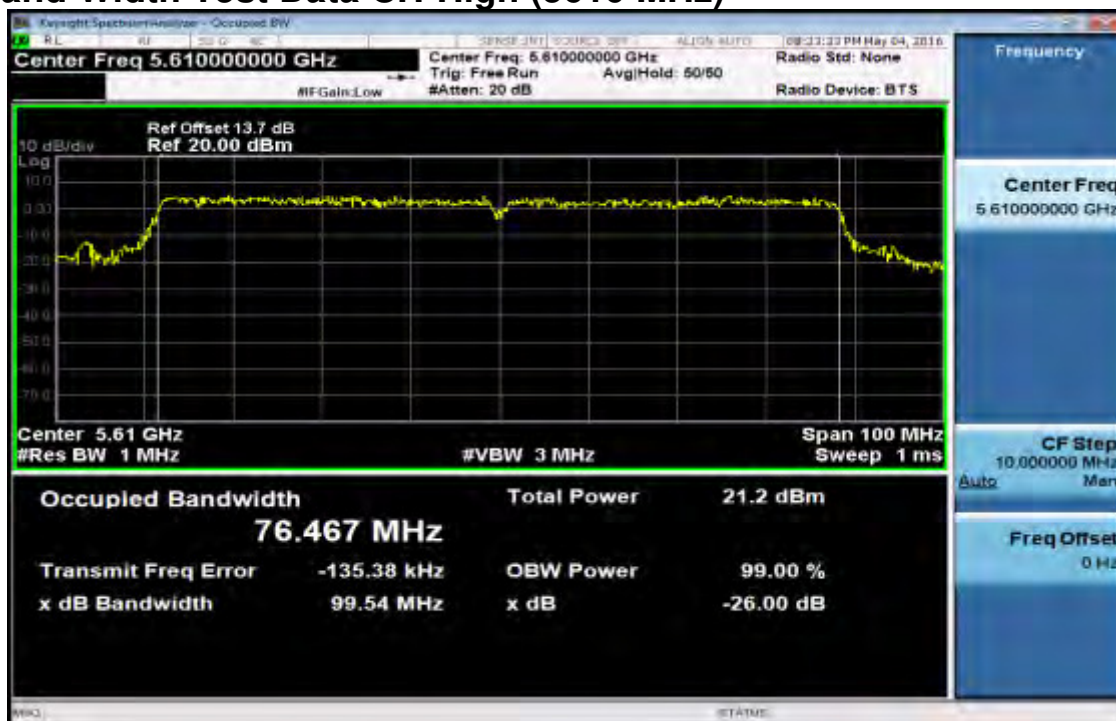
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802.11ac VHT80, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-High (5610 MHz)



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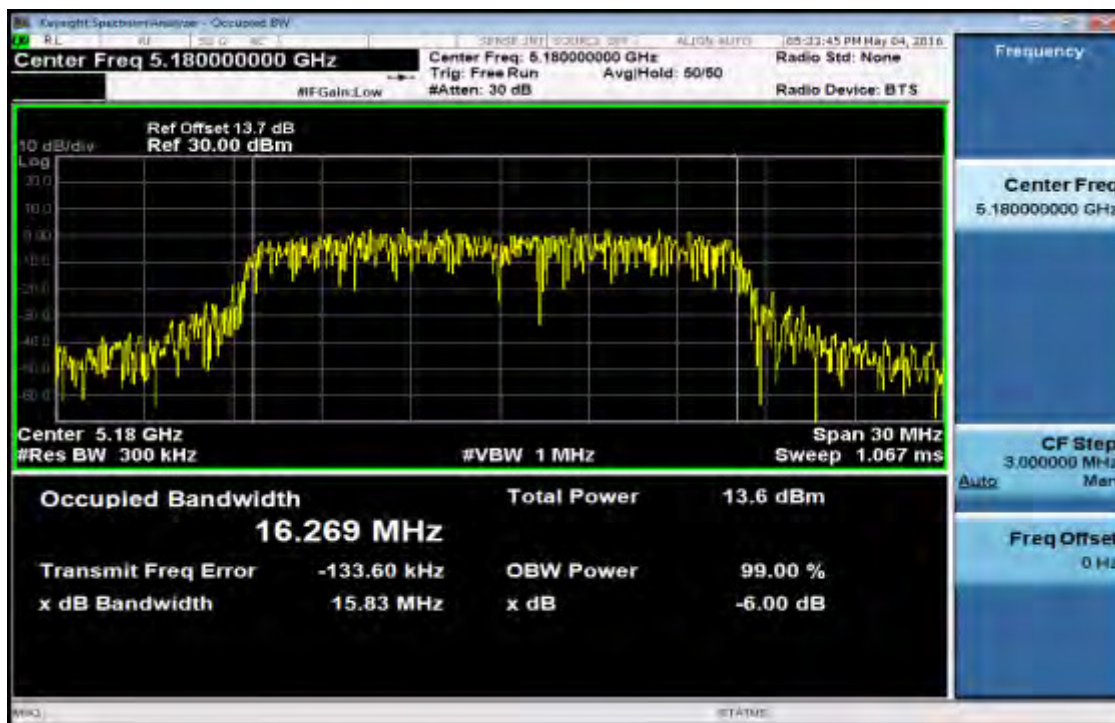
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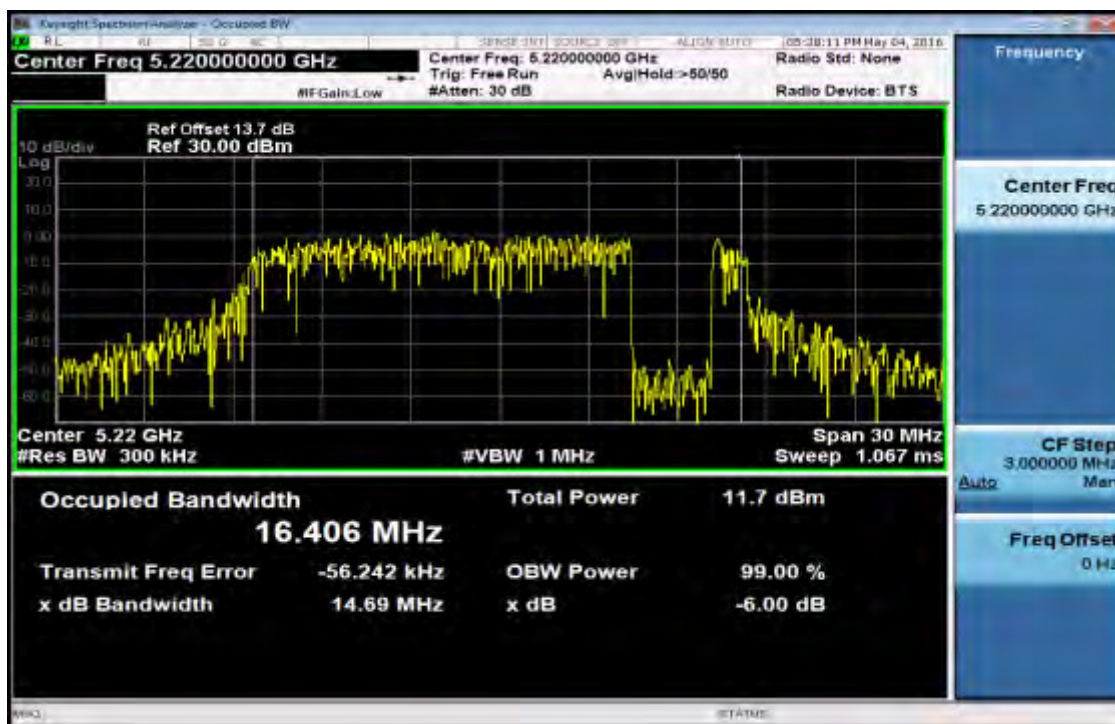
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802.11a, 5150~5250 MHz (Main)
99% Band Width Test Data CH-Low (5180MHz)



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



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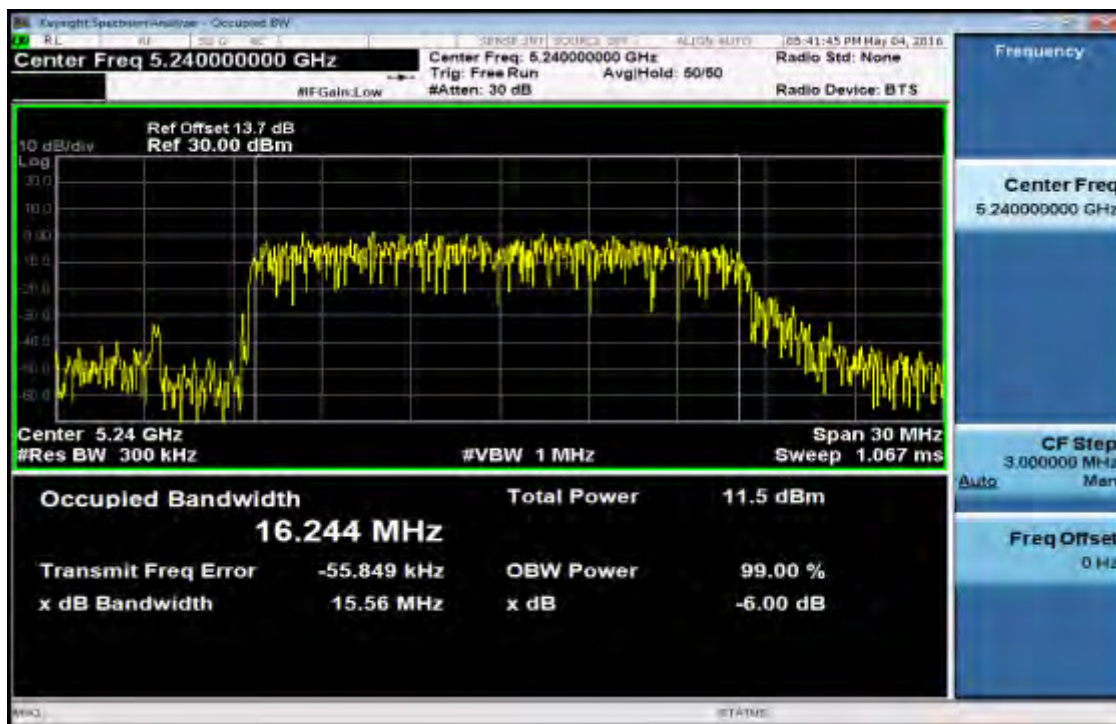
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99% Band Width Test Data CH-High (5240MHz)



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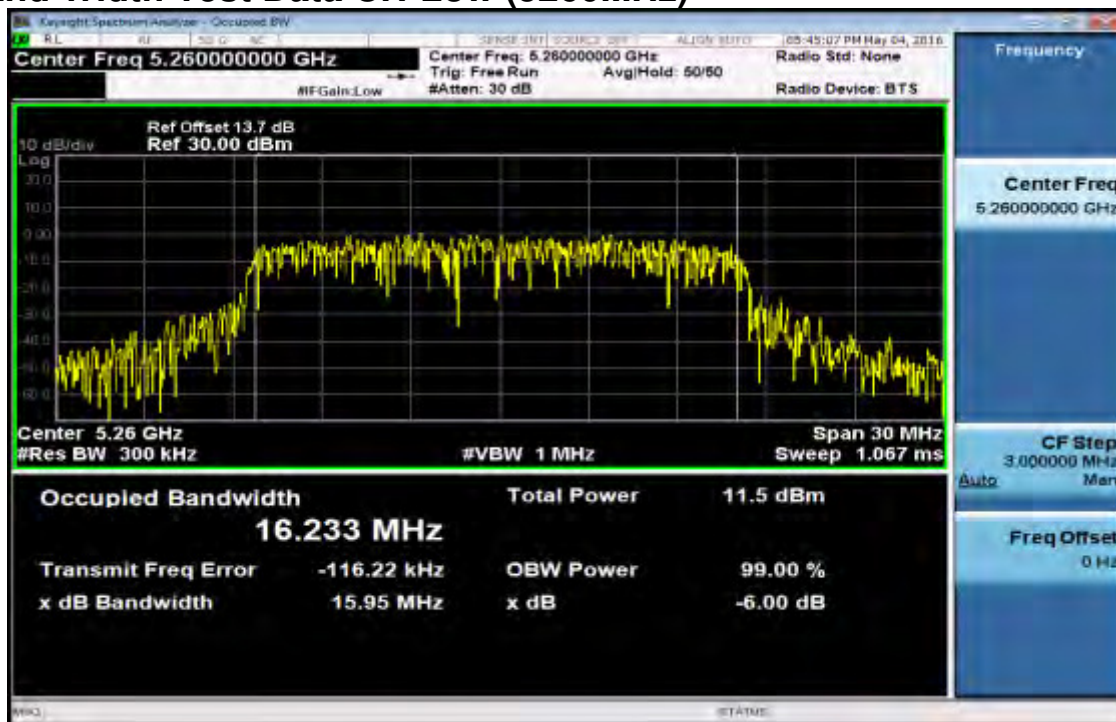
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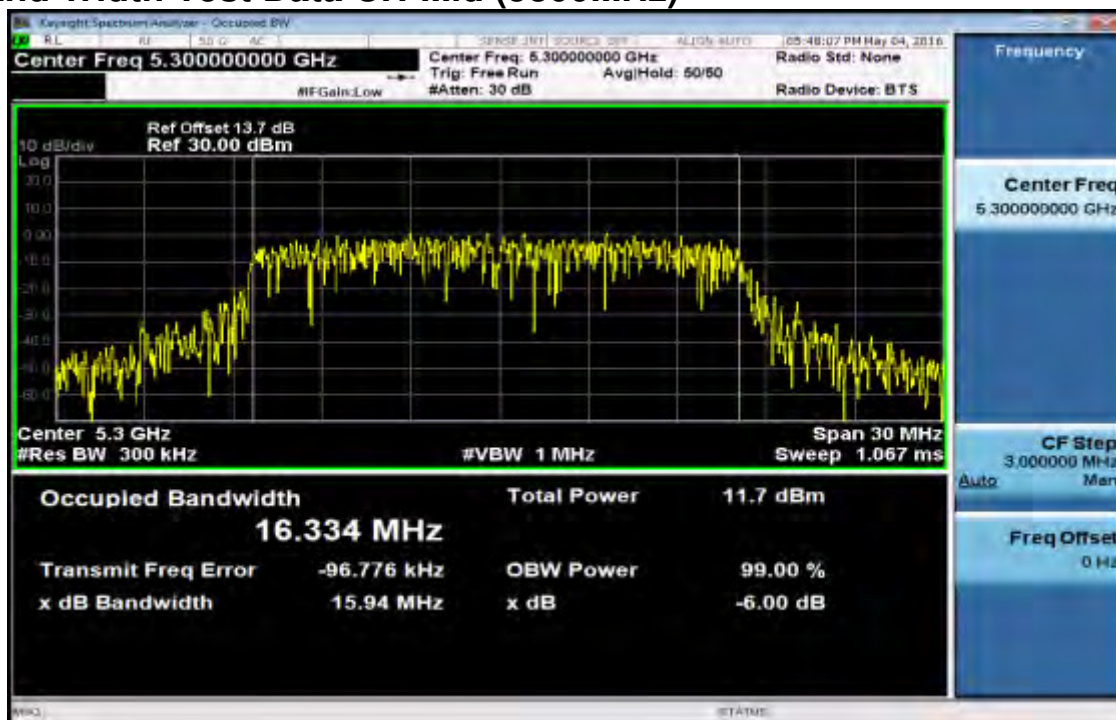
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802.11a, 5250~5350 MHz (Main)

99% Band Width Test Data CH-Low (5260MHz)



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



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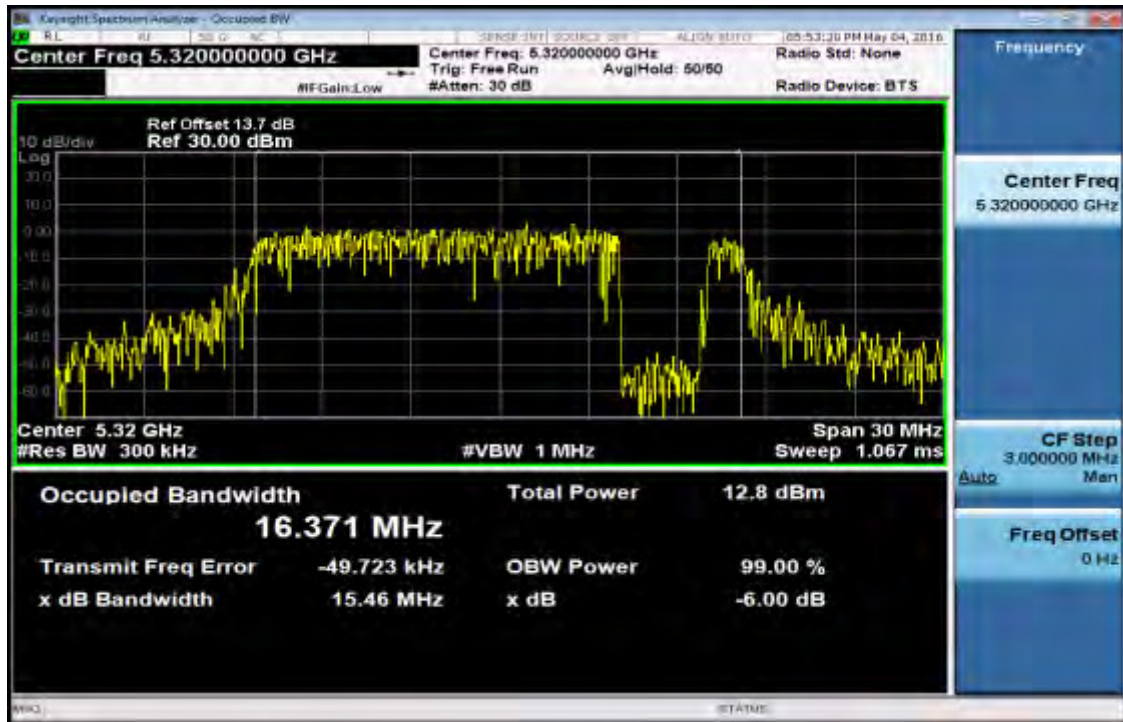
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99% Band Width Test Data CH-High (5320MHz)



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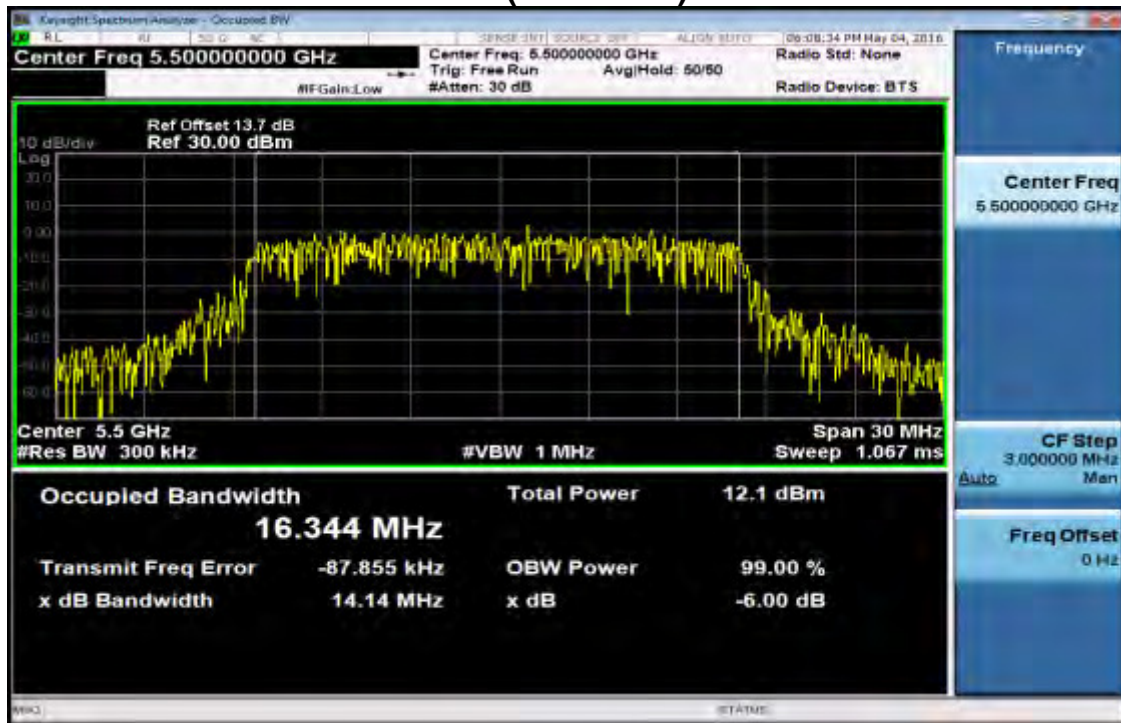
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f (886-2) 2298-0488

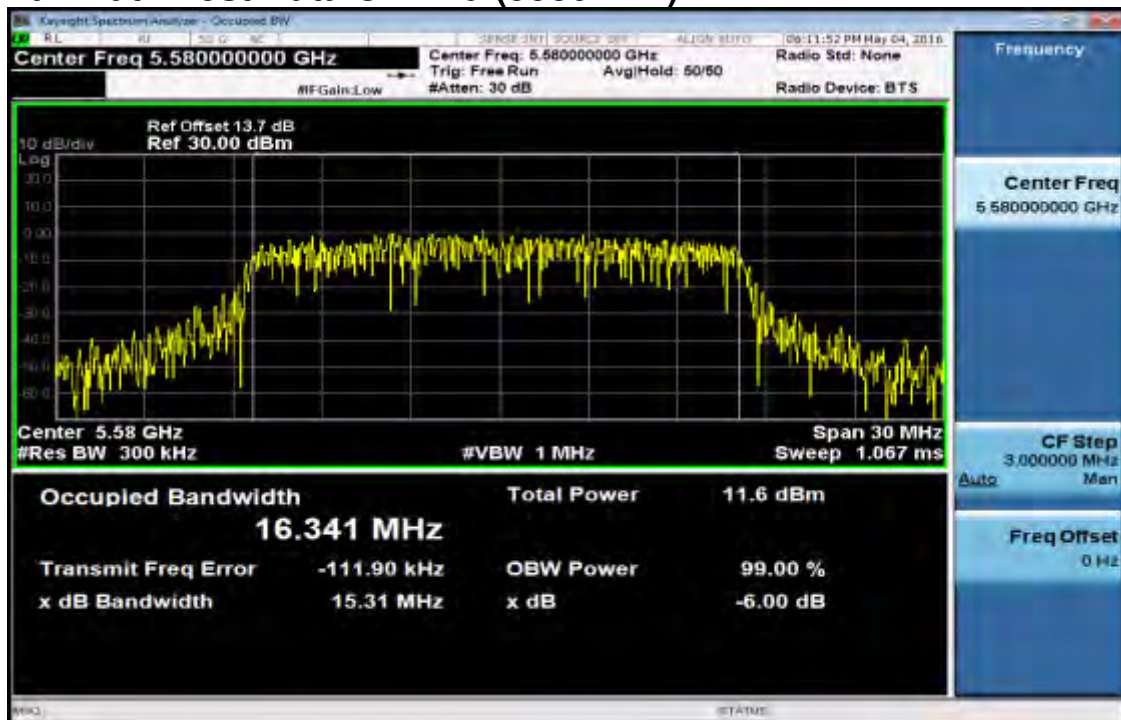
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802.11a, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500MHz)



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



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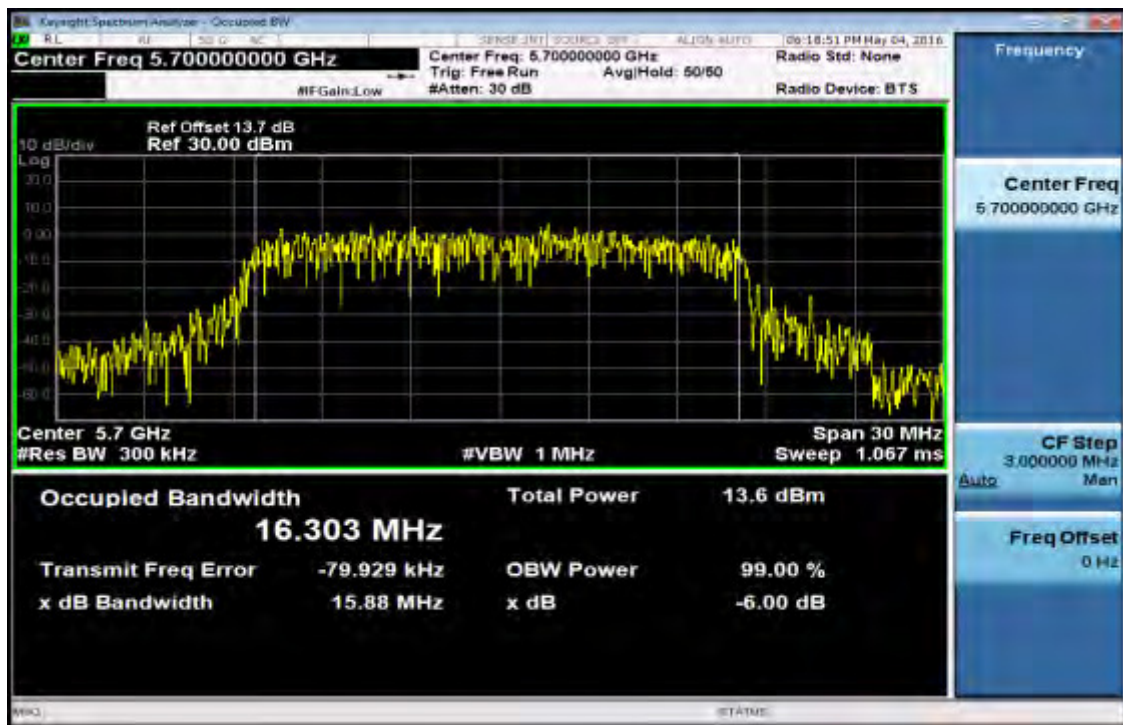
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99% Band Width Test Data CH-High (5700MHz)



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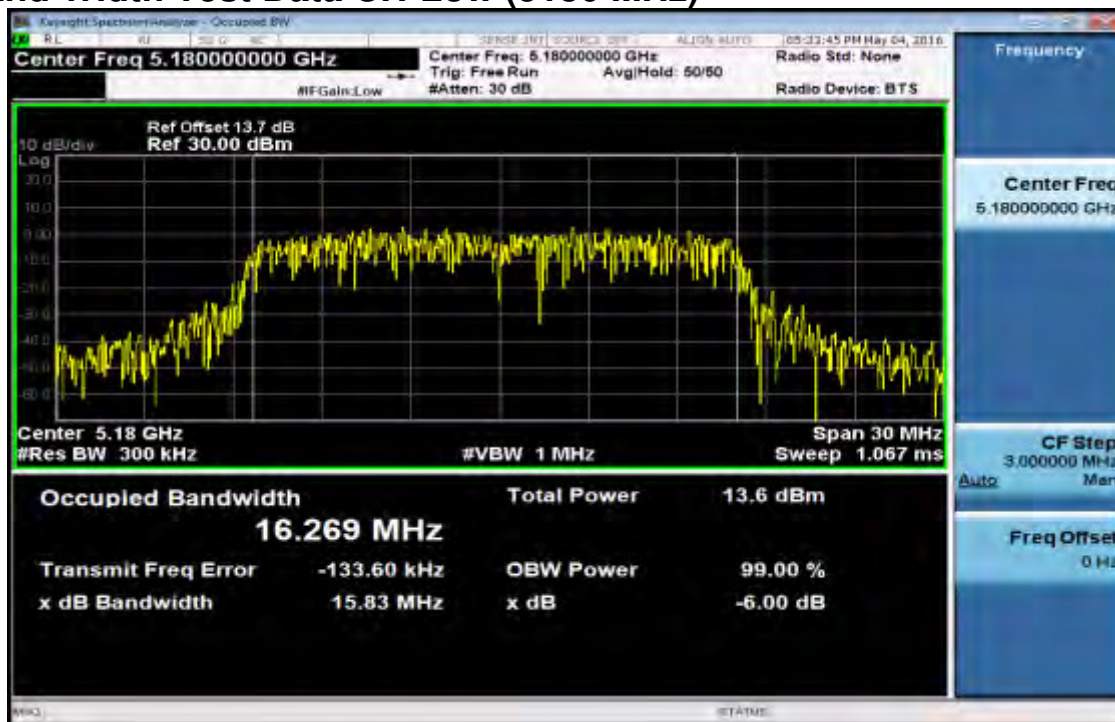
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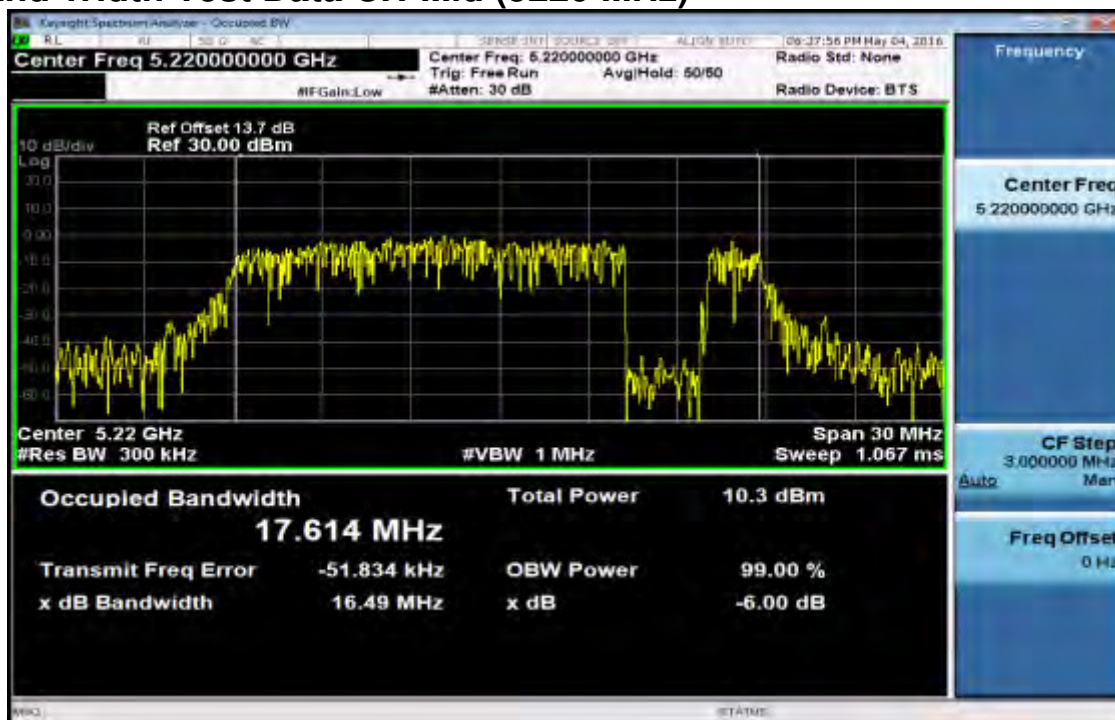
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802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180 MHz)



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



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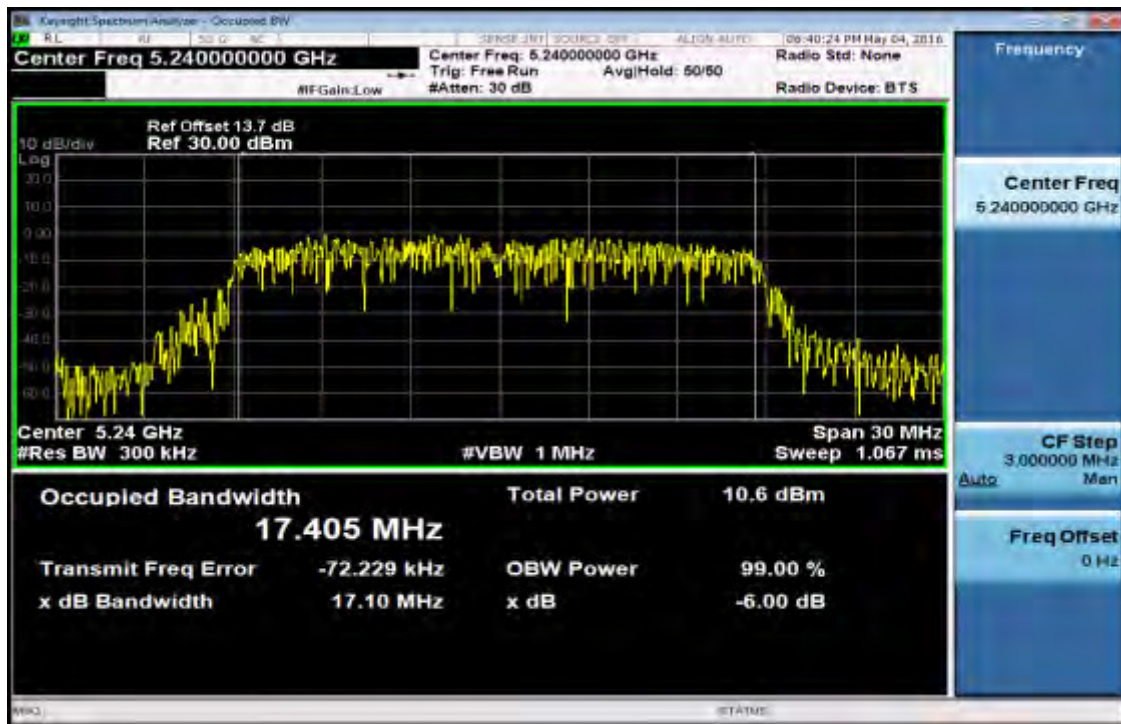
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99% Band Width Test Data CH-High (5240 MHz)



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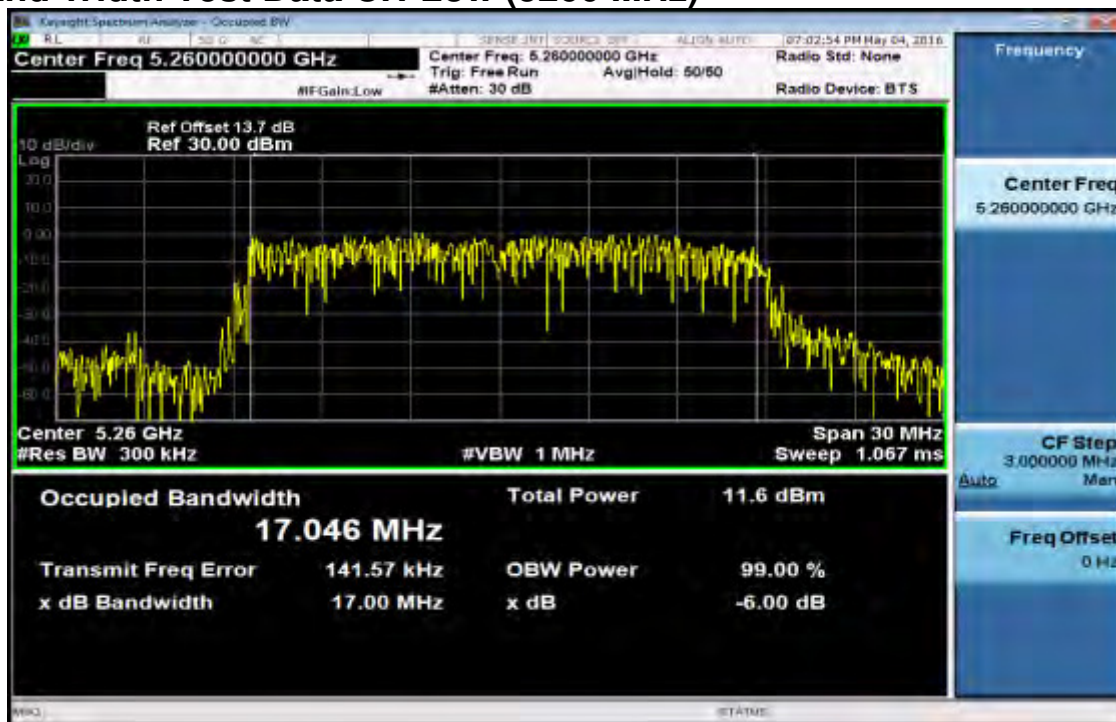
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f (886-2) 2298-0488

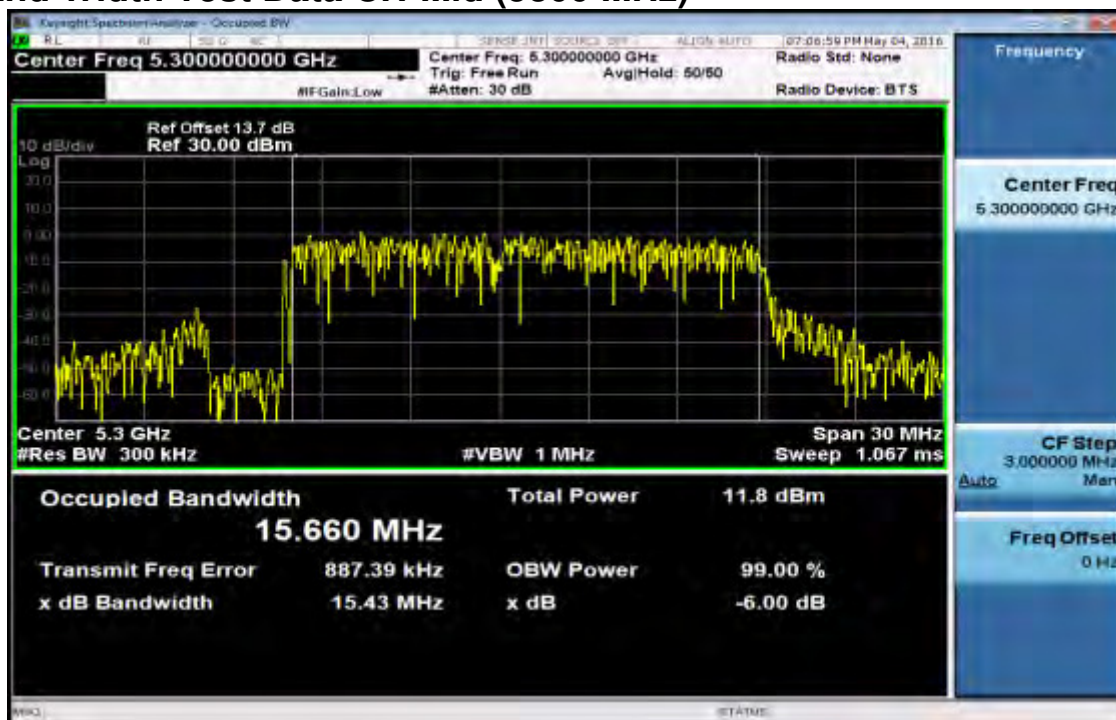
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802.11n HT20, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260 MHz)



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



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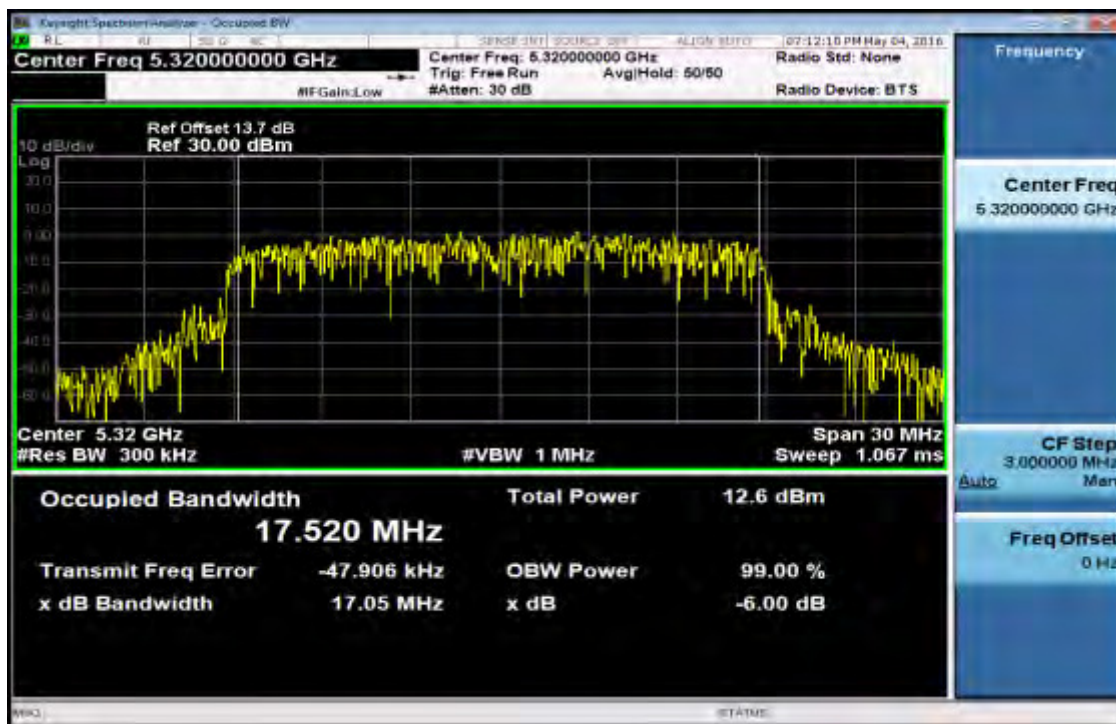
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99% Band Width Test Data CH-High (5320 MHz)



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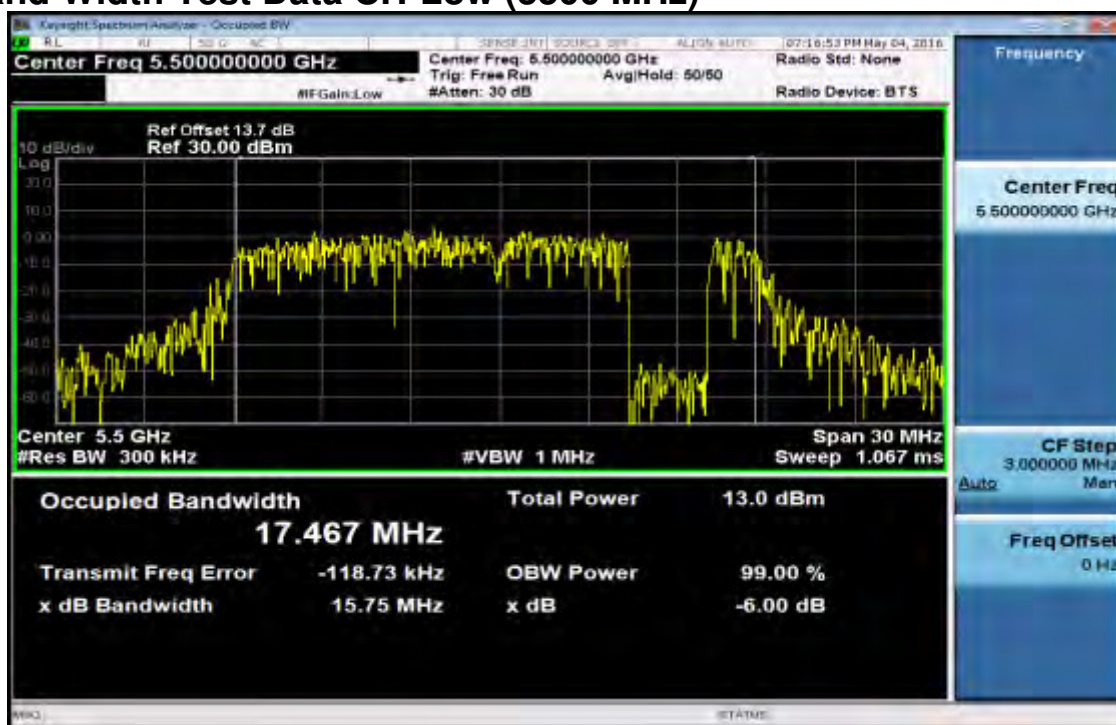
f (886-2) 2298-0488

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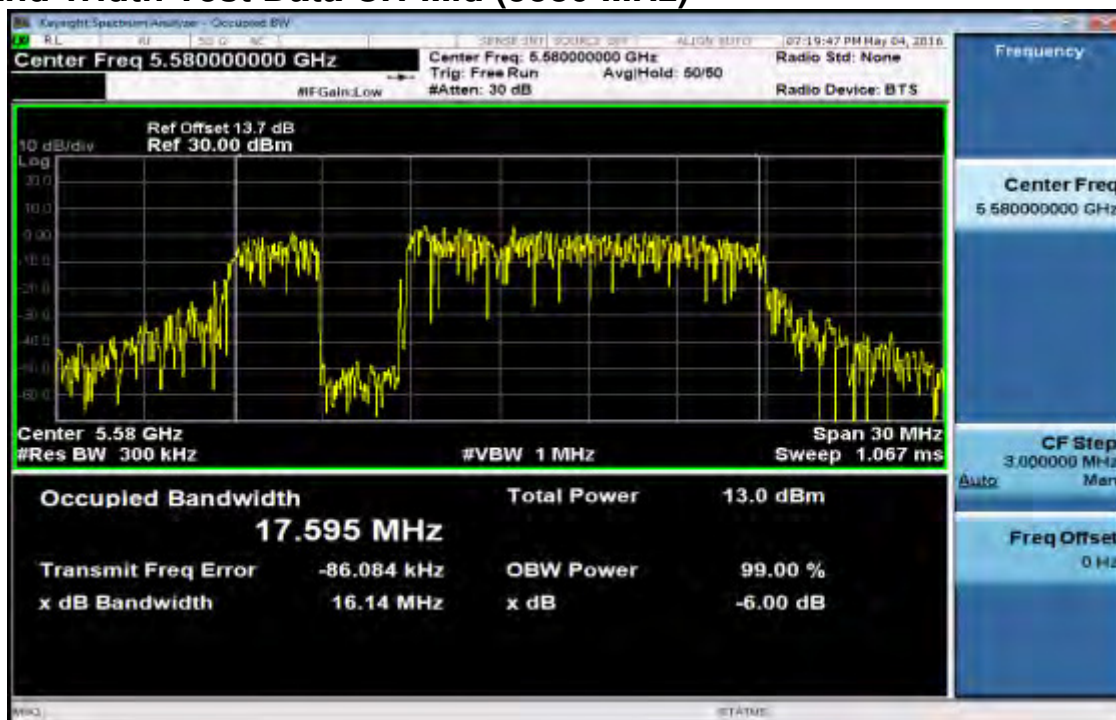
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802.11n HT20, 5470~5725 MHz (Main)

99% Band Width Test Data CH-Low (5500 MHz)



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



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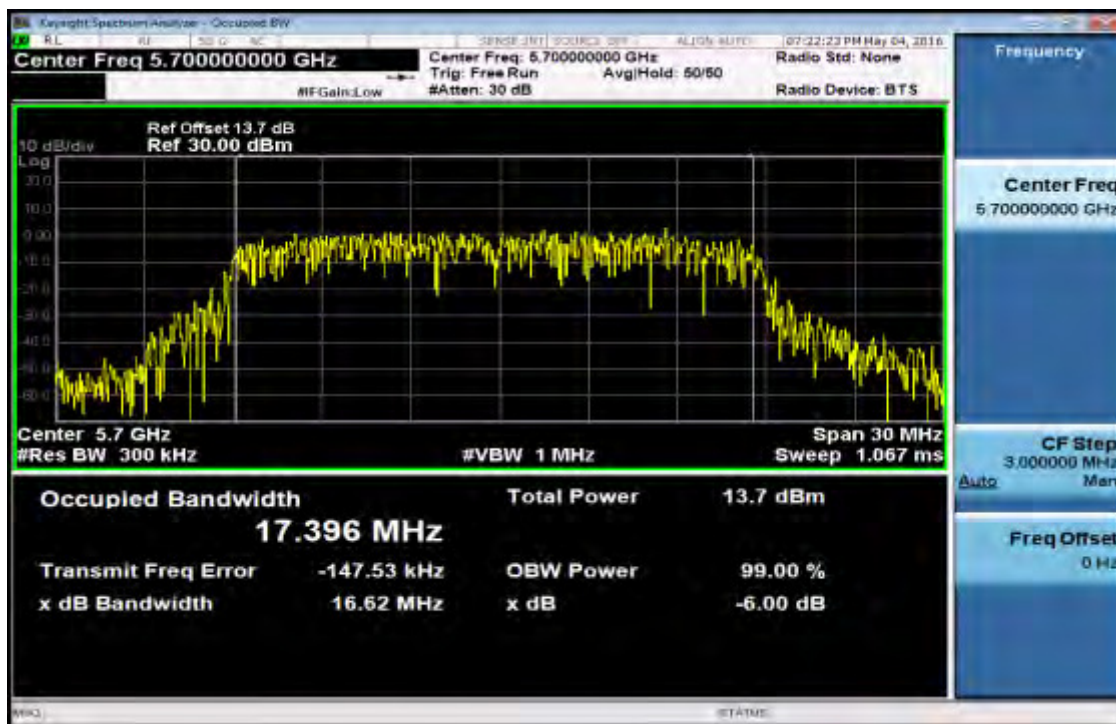
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99% Band Width Test Data CH-High (5700 MHz)



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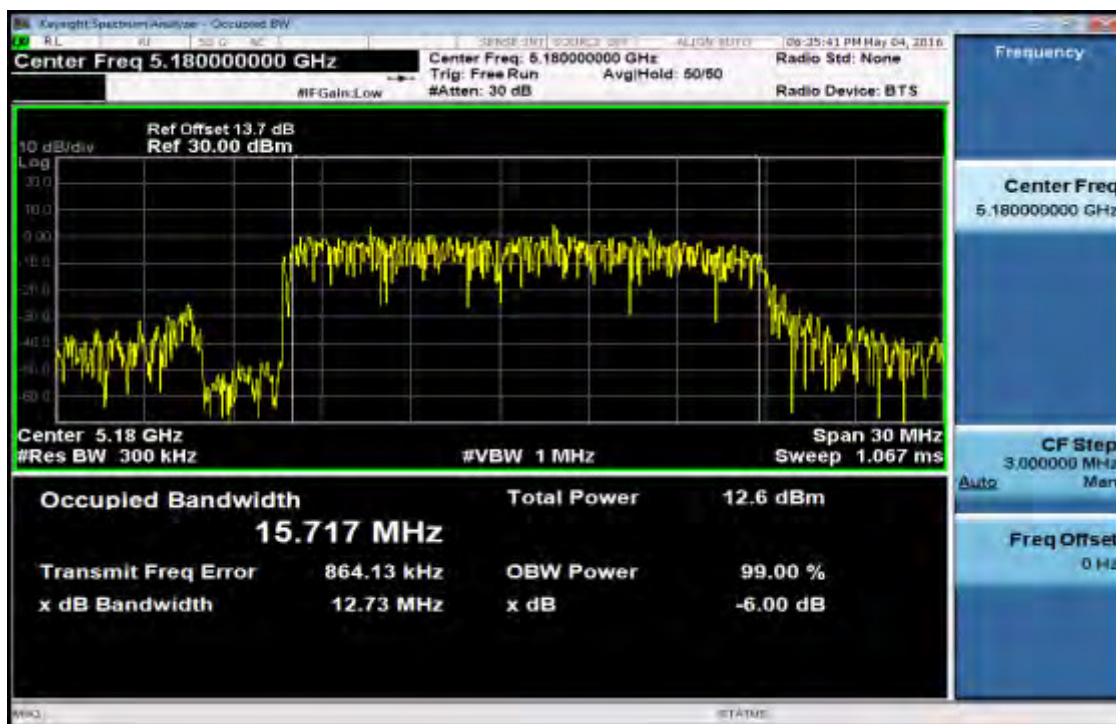
t (886-2) 2299-3279

f (886-2) 2298-0488

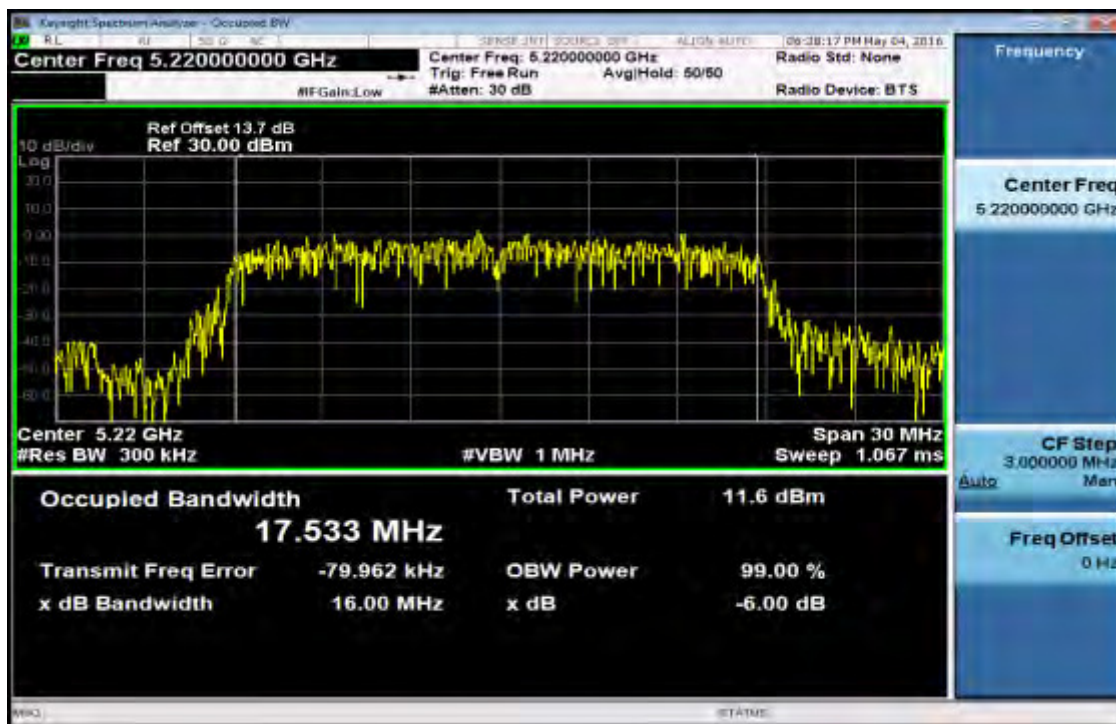
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802.11n HT20, 5150~5250 MHz (Aux1) 99% Band Width Test Data CH-Low (5180 MHz)



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



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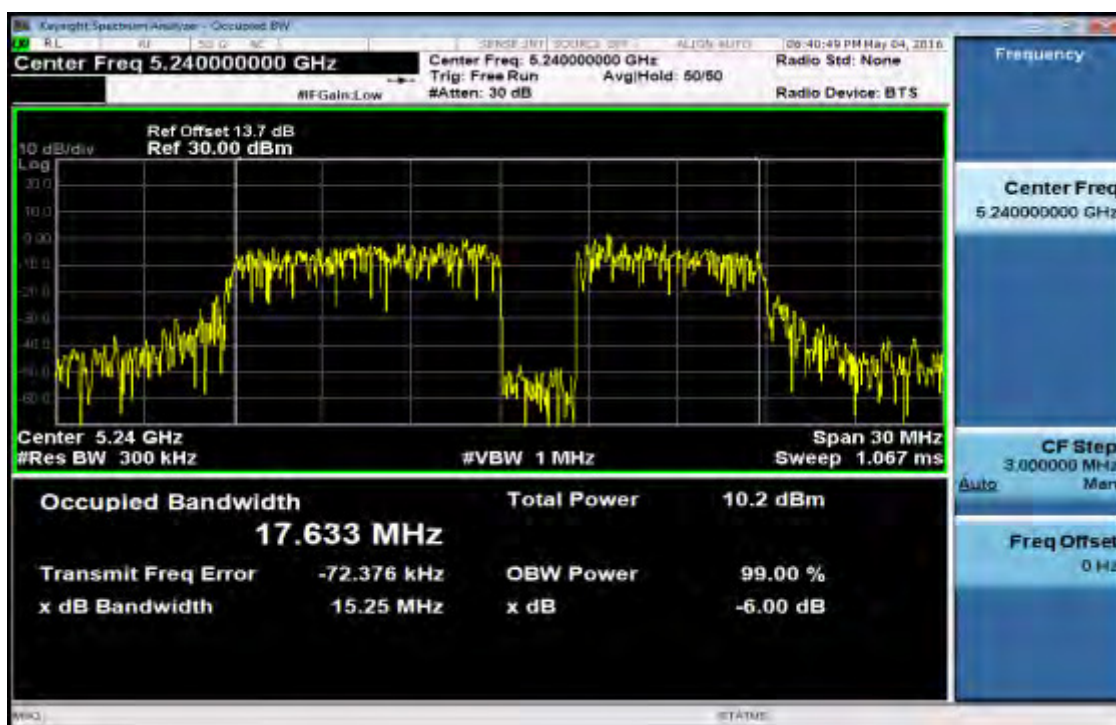
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99% Band Width Test Data CH-High (5240 MHz)



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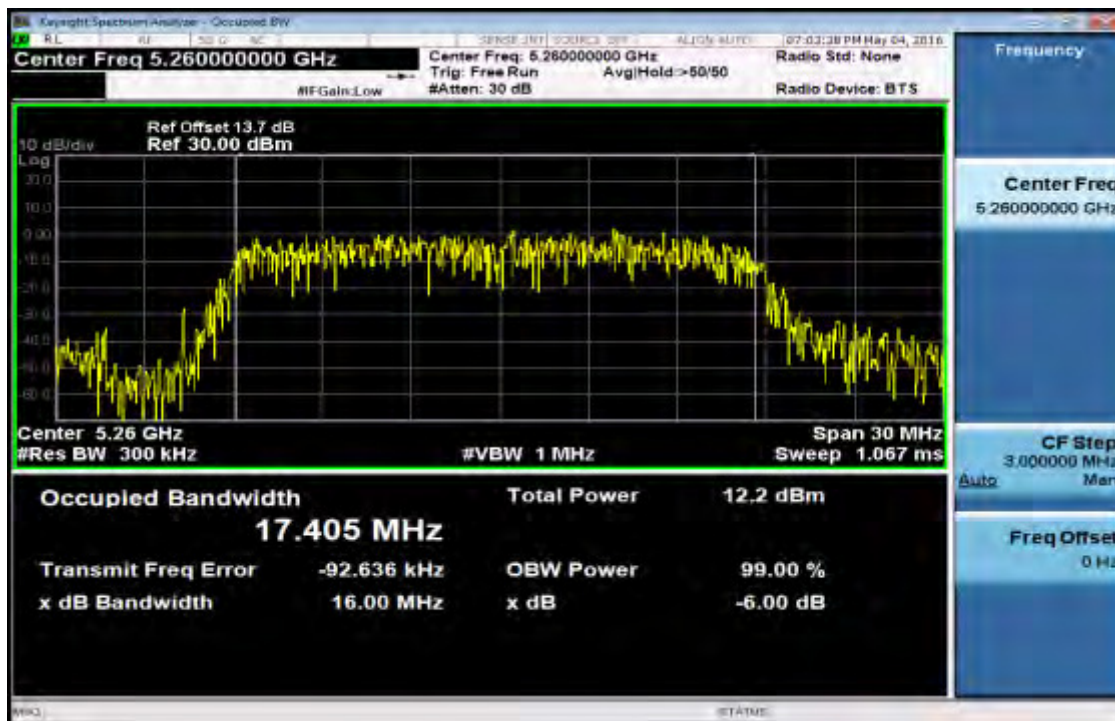
t (886-2) 2299-3279

f (886-2) 2298-0488

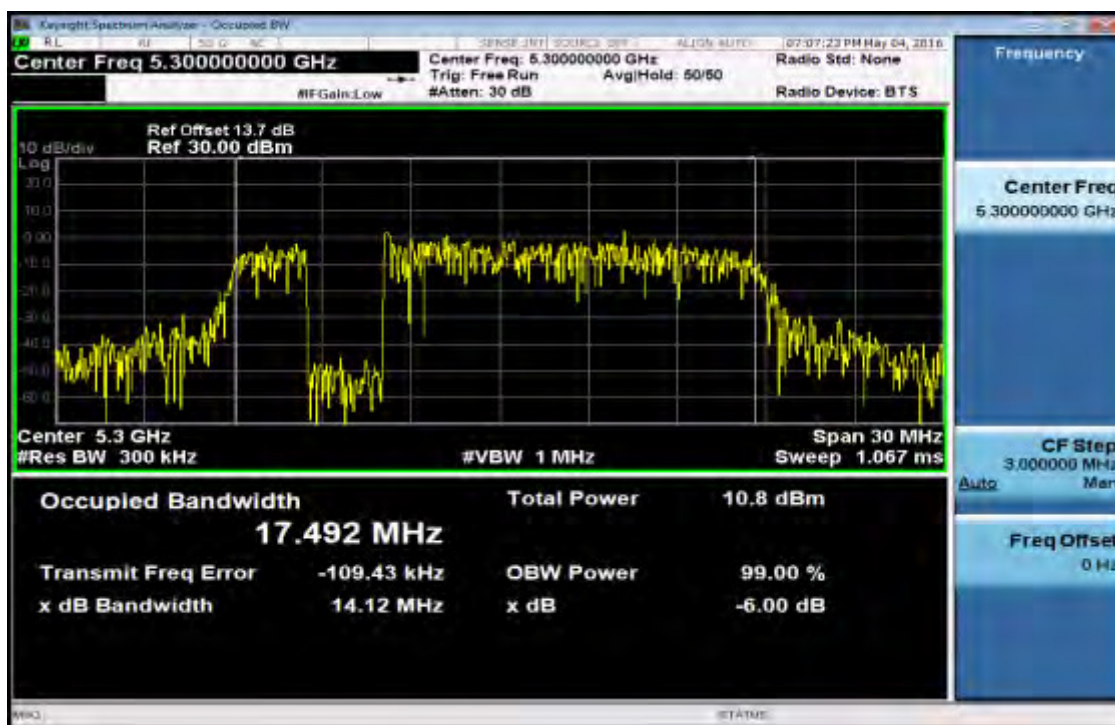
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802.11n HT20, 5250~5350 MHz (Aux1) 99% Band Width Test Data CH-Low (5260 MHz)



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



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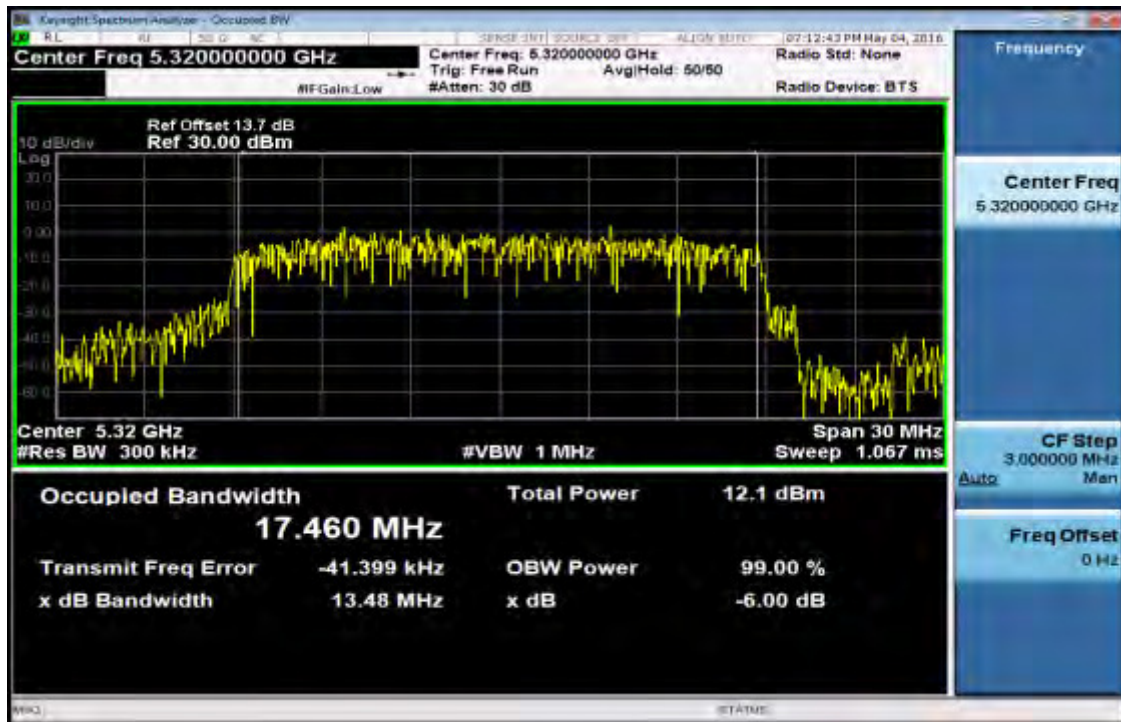
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99% Band Width Test Data CH-High (5320 MHz)



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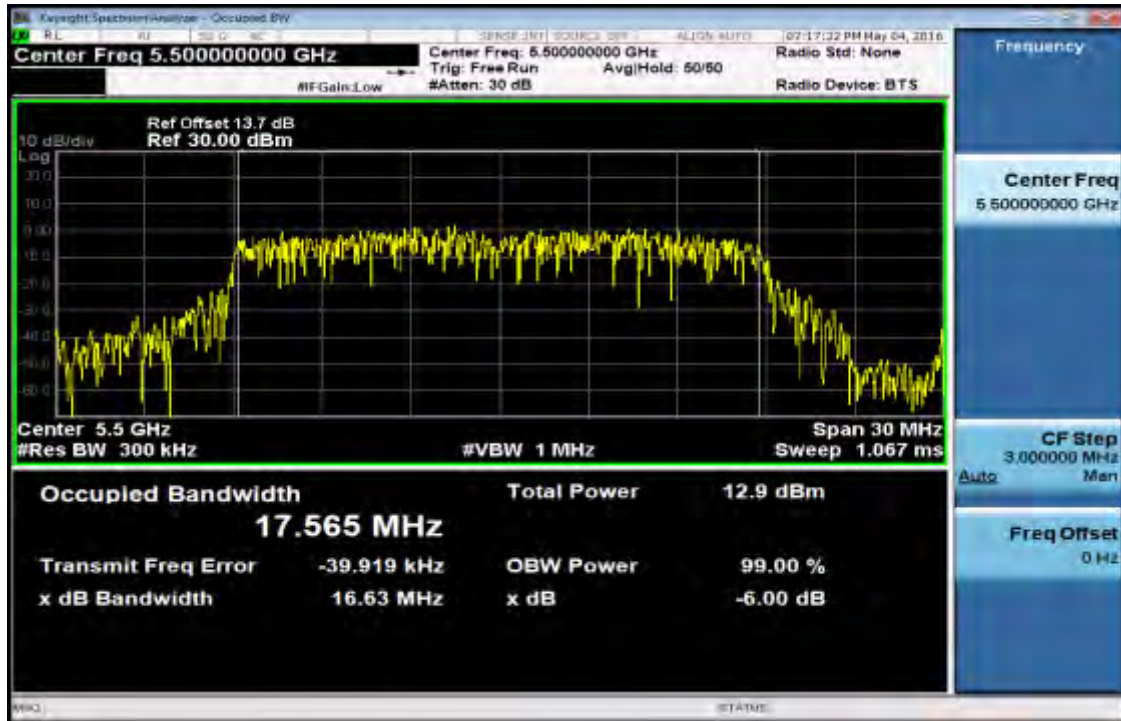
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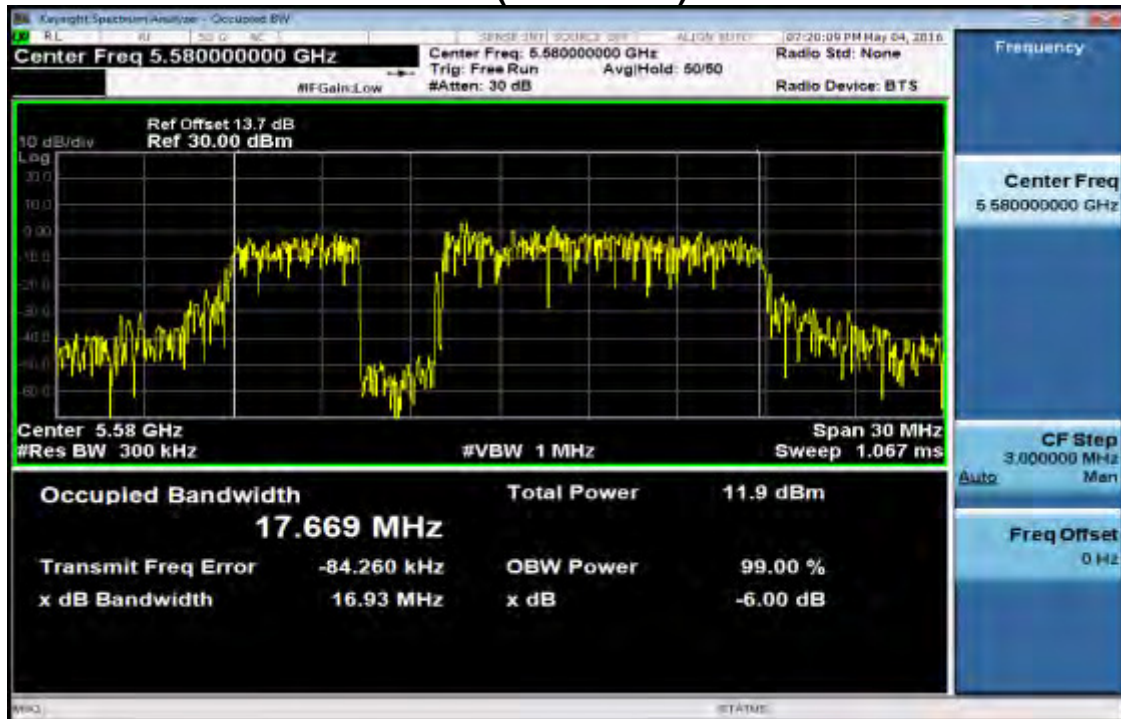
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802.11n HT20, 5470~5725 MHz (Aux1) 99% Band Width Test Data CH-Low (5500 MHz)



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



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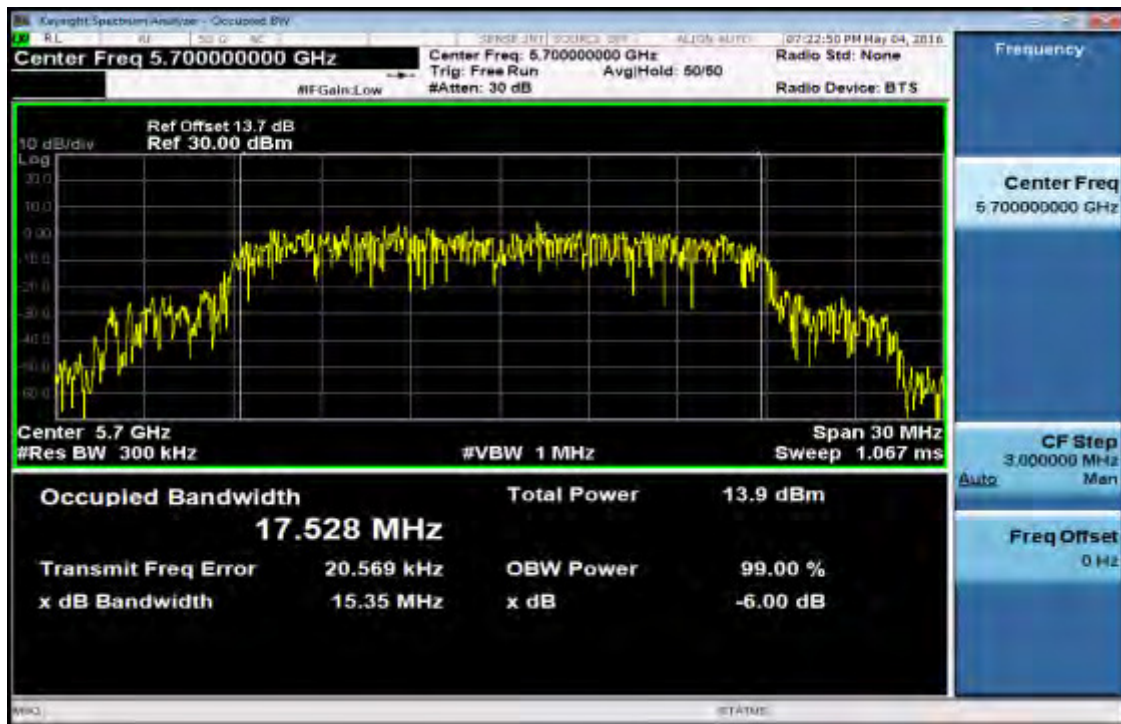
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99% Band Width Test Data CH-High (5700 MHz)



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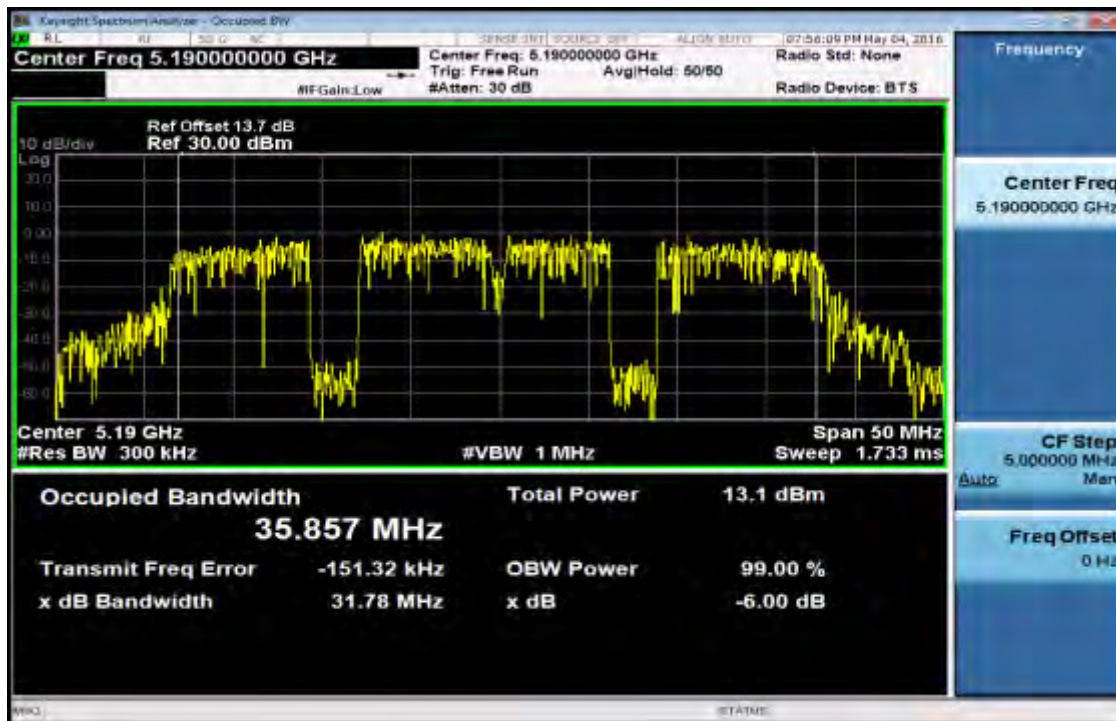
f (886-2) 2298-0488

www.tw.sgs.com

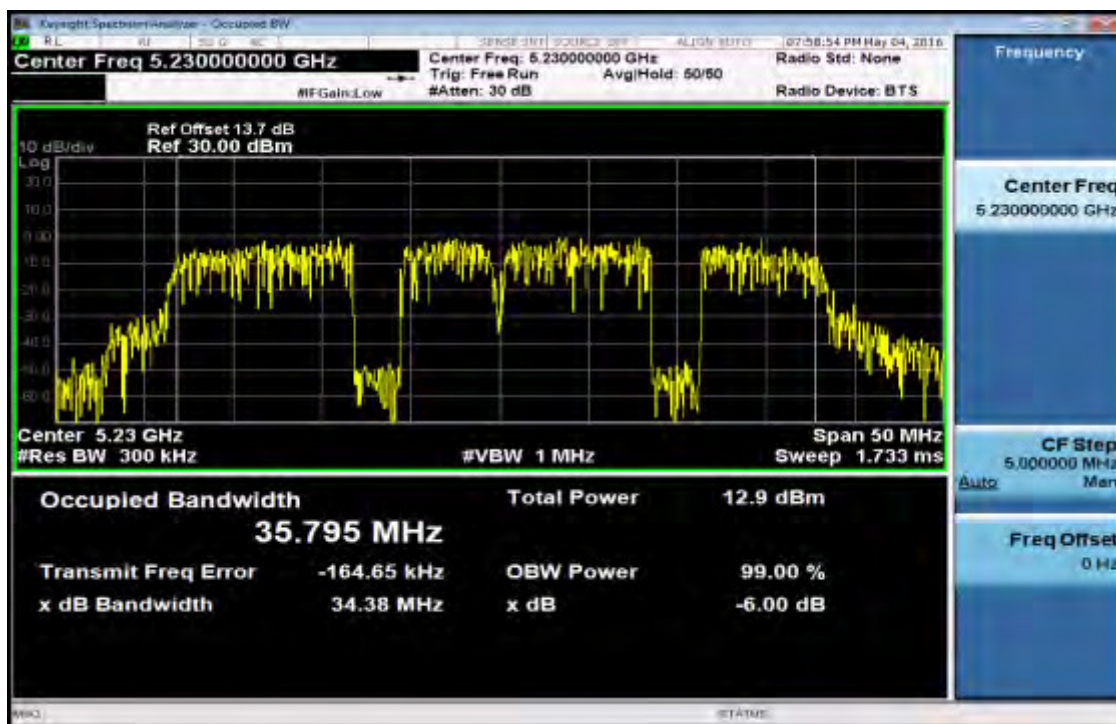
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802.11n HT40, 5150~5250 MHz (Main)

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



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



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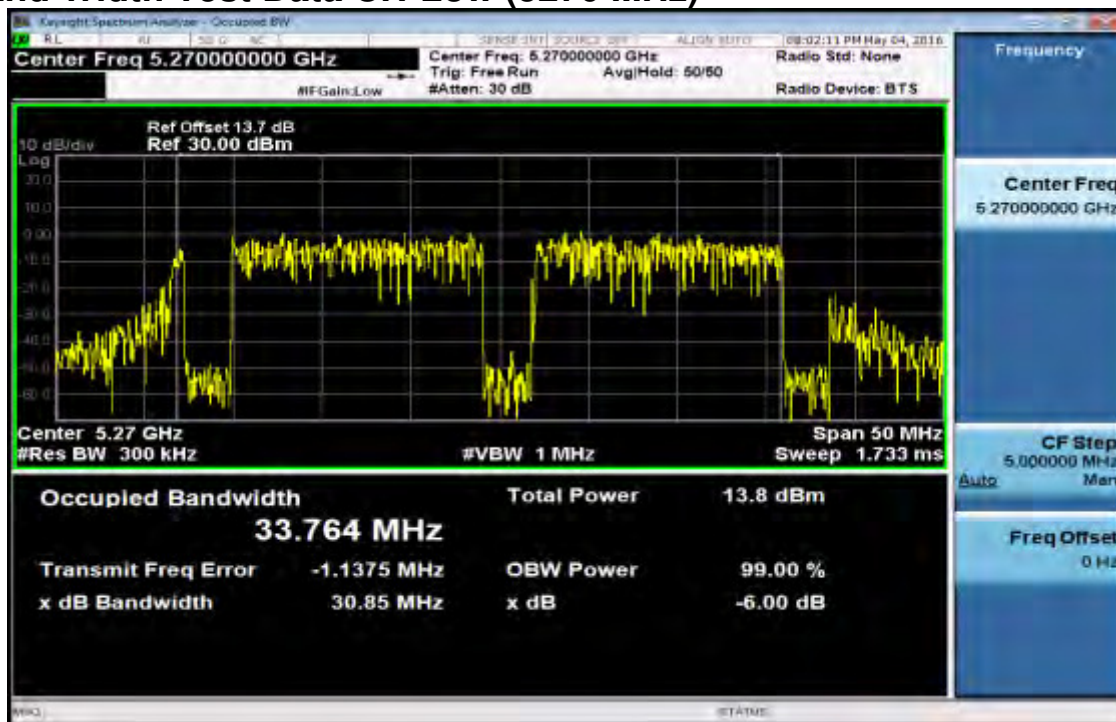
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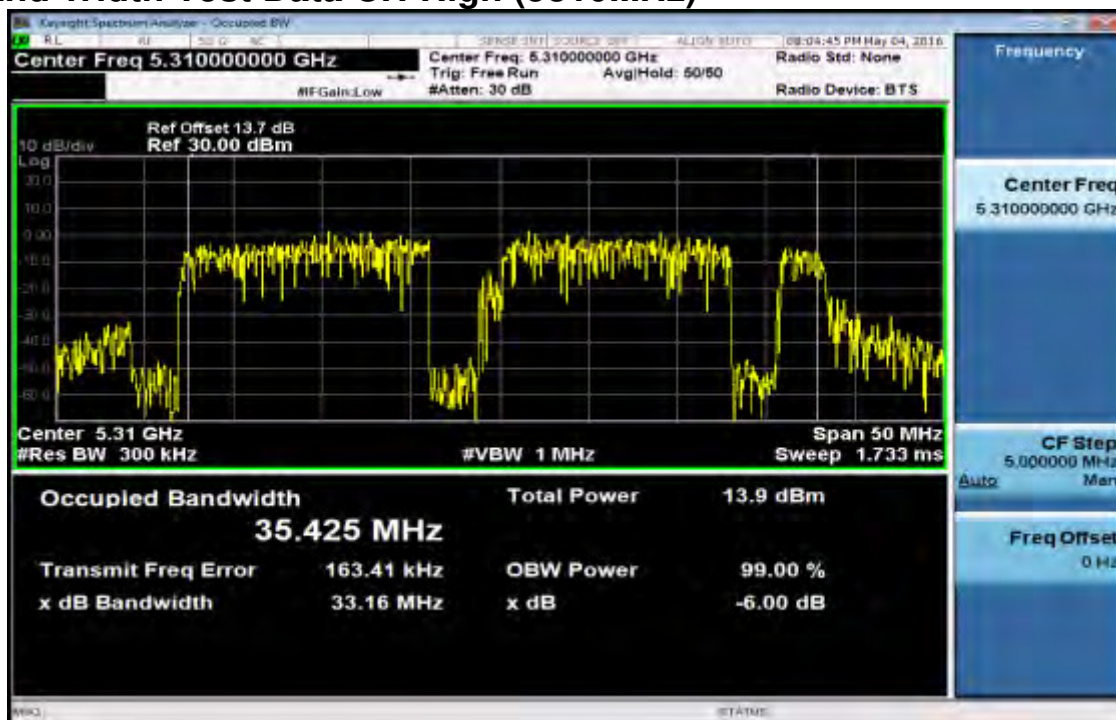
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802.11n HT40, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5270 MHz)



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



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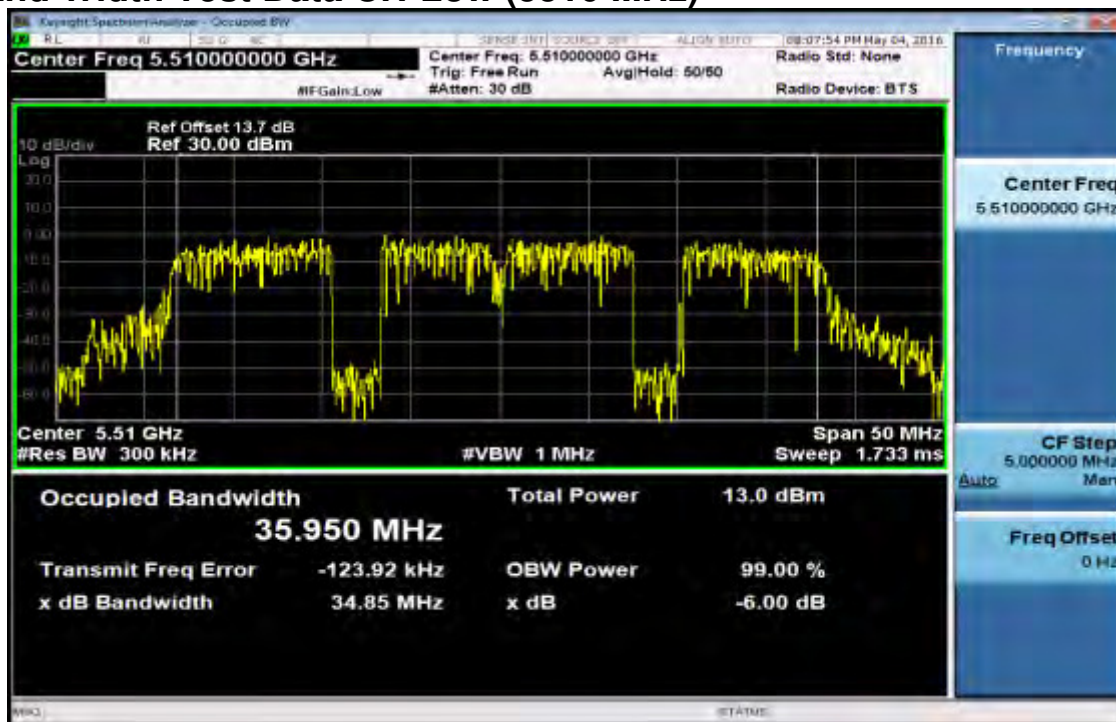
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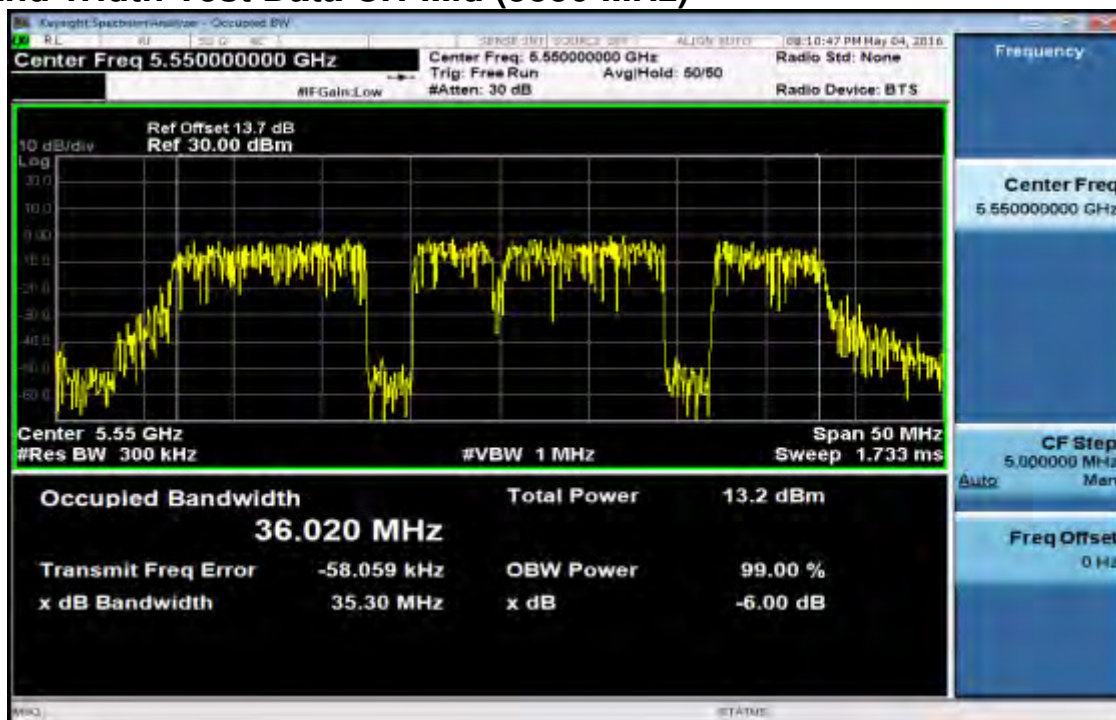
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802.11n HT40, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5510 MHz)



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



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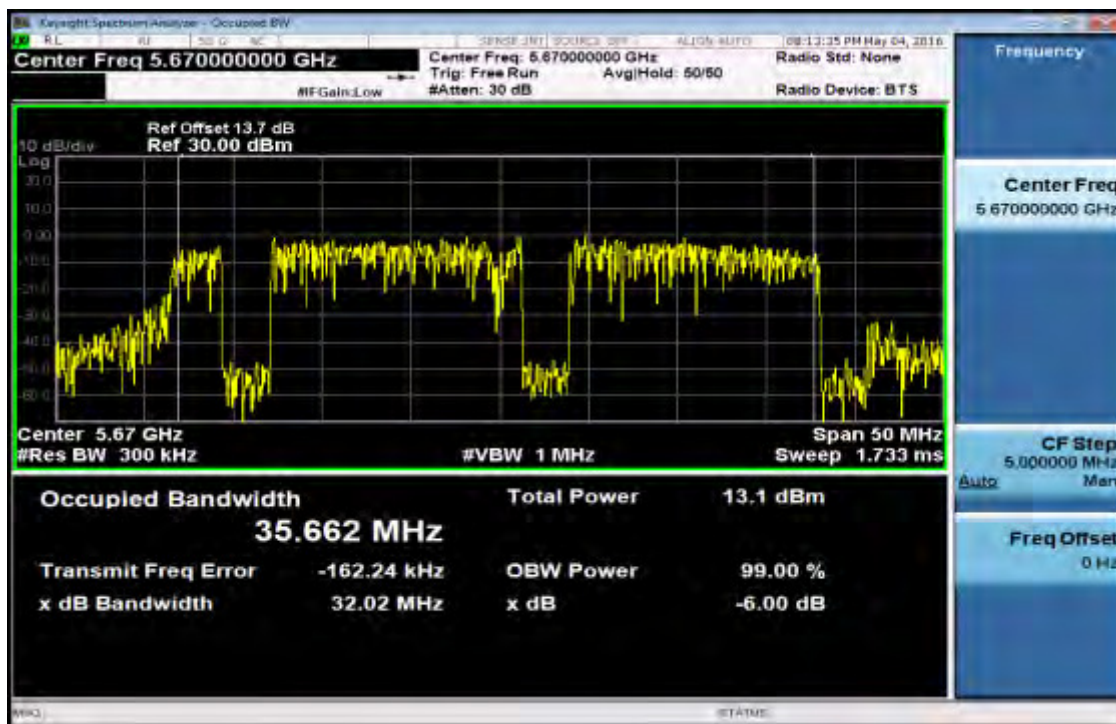
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99% Band Width Test Data CH-High (5670 MHz)



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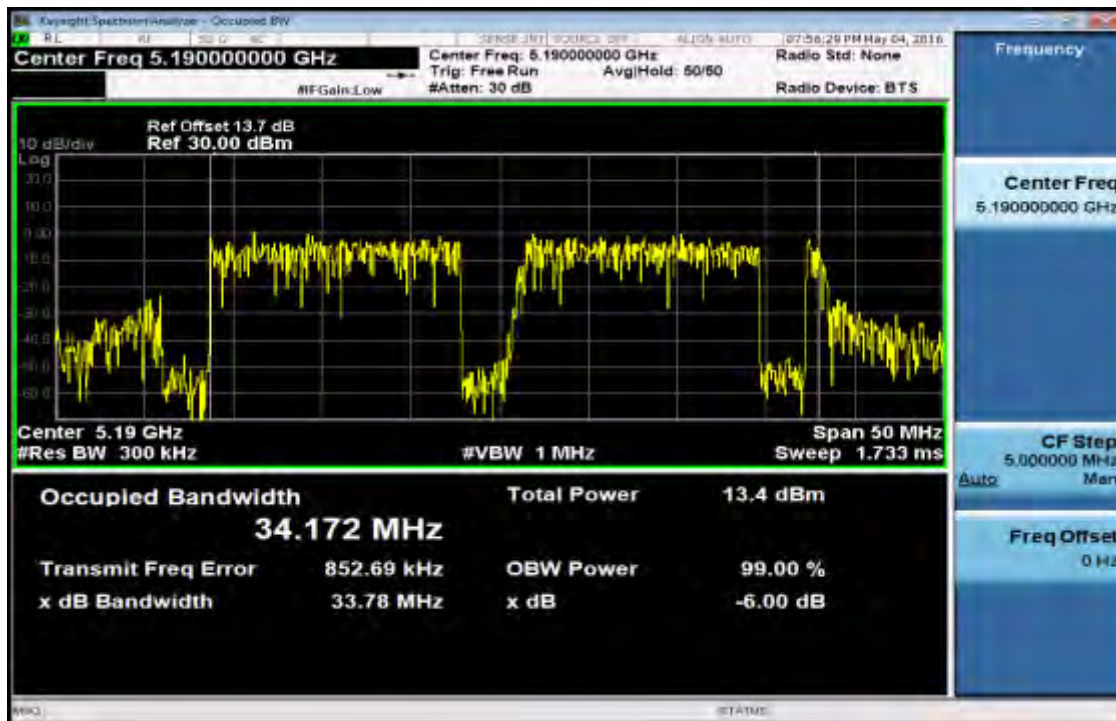
f (886-2) 2298-0488

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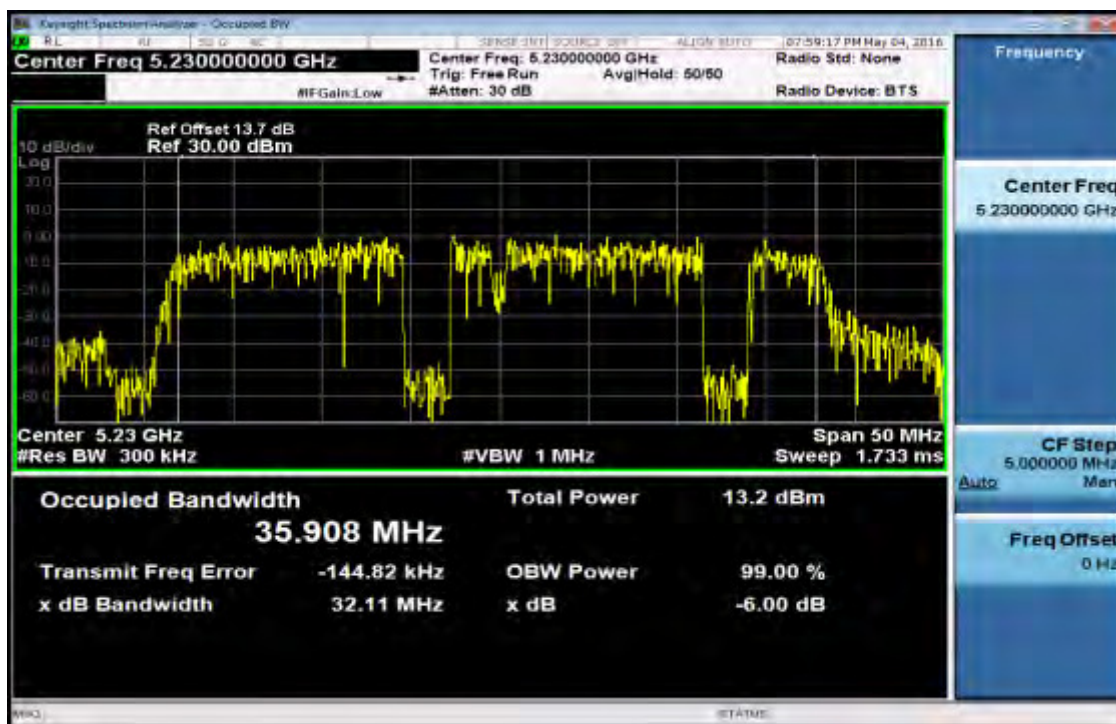
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802.11n HT40, 5150~5250 MHz (Aux1)

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



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



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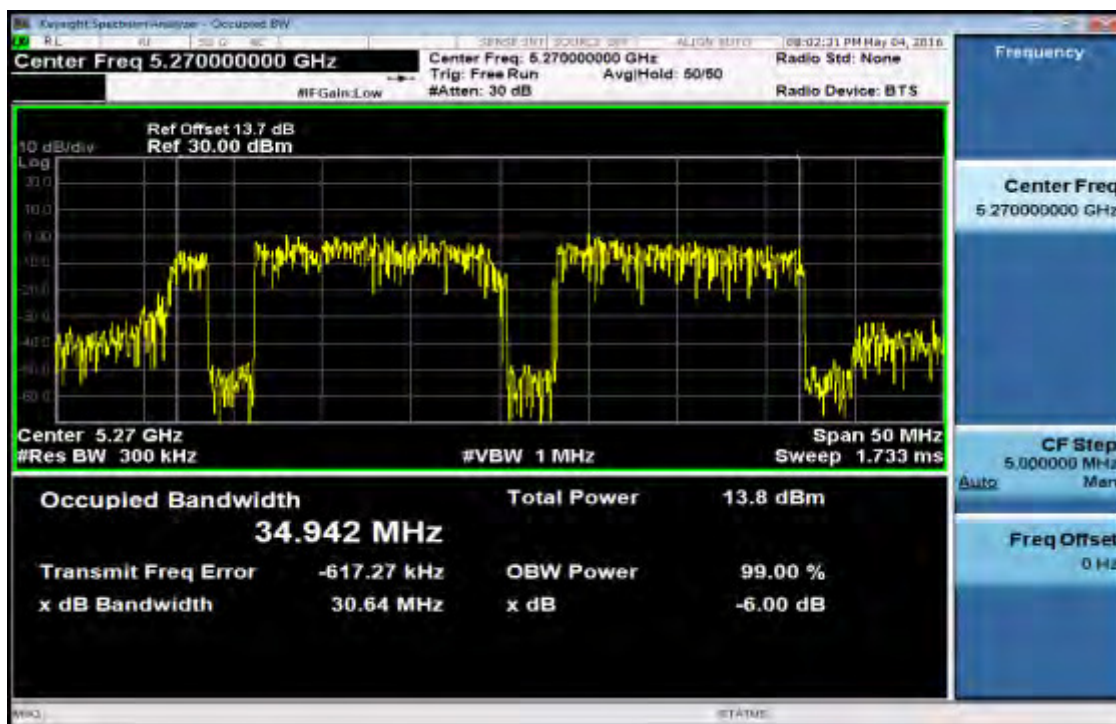
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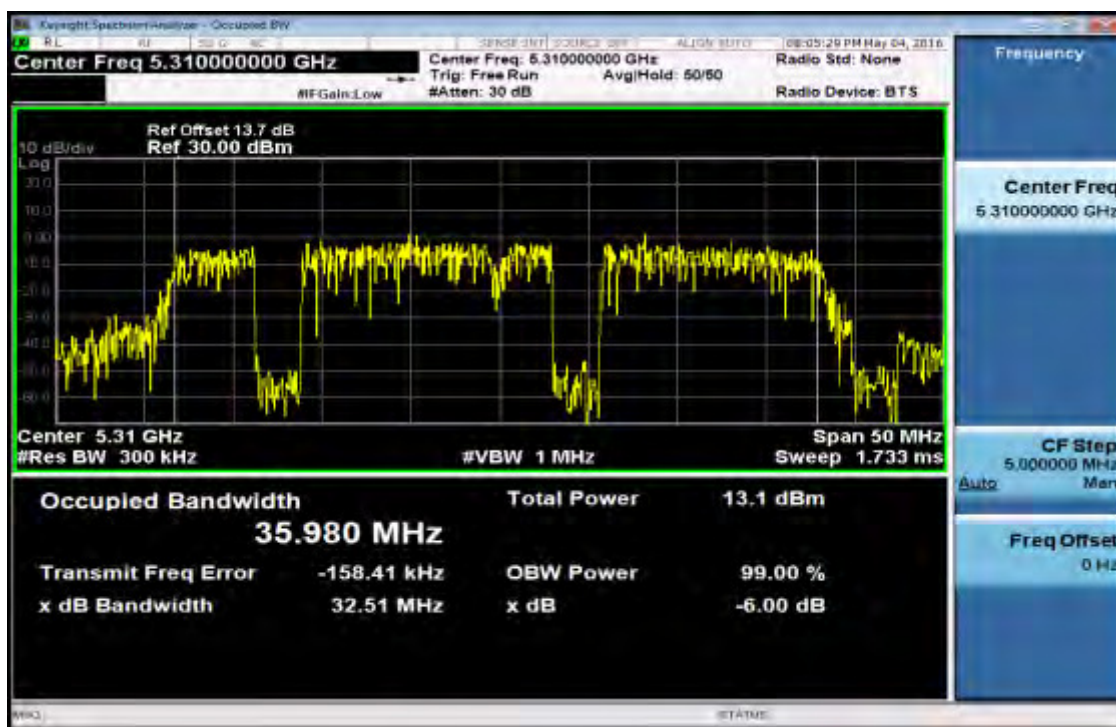
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802.11n HT40, 5250~5350 MHz (Aux1) 99% Band Width Test Data CH-Low (5270 MHz)



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



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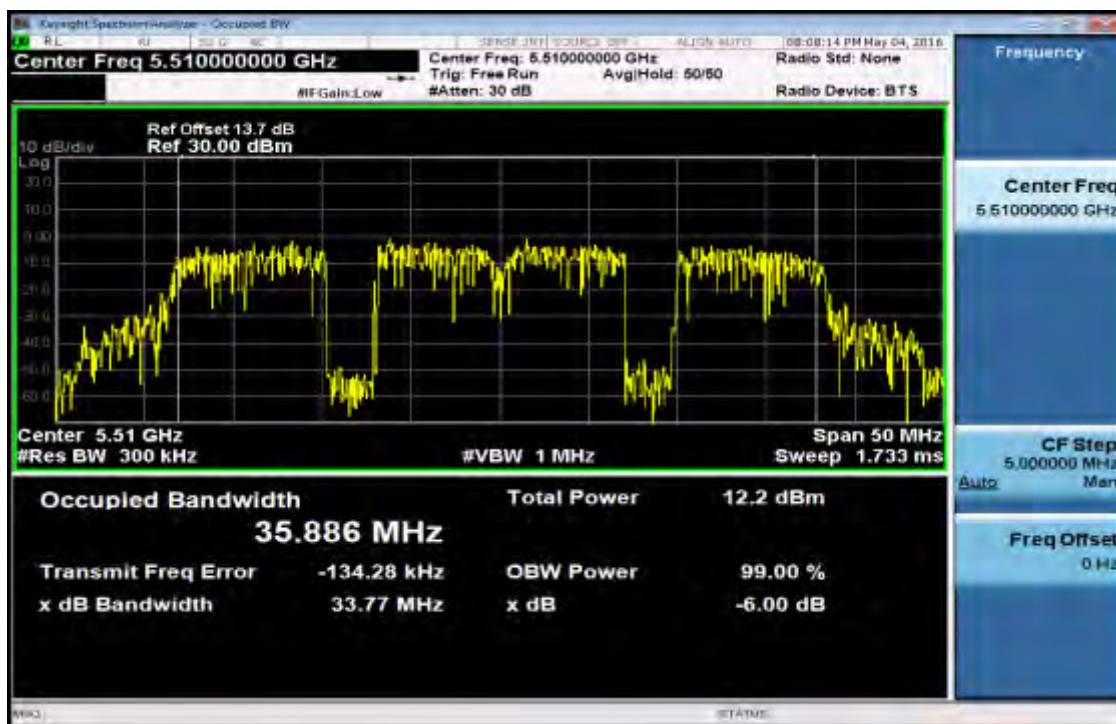
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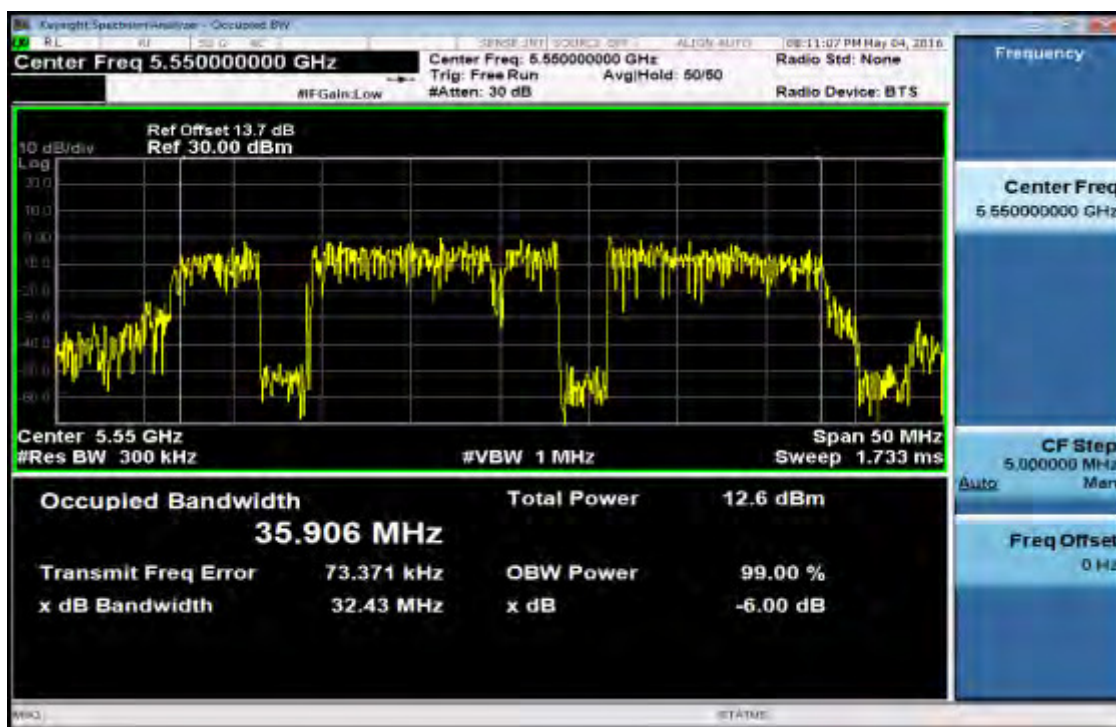
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802.11n HT40, 5470~5725 MHz (Aux1) 99% Band Width Test Data CH-Low (5510 MHz)



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



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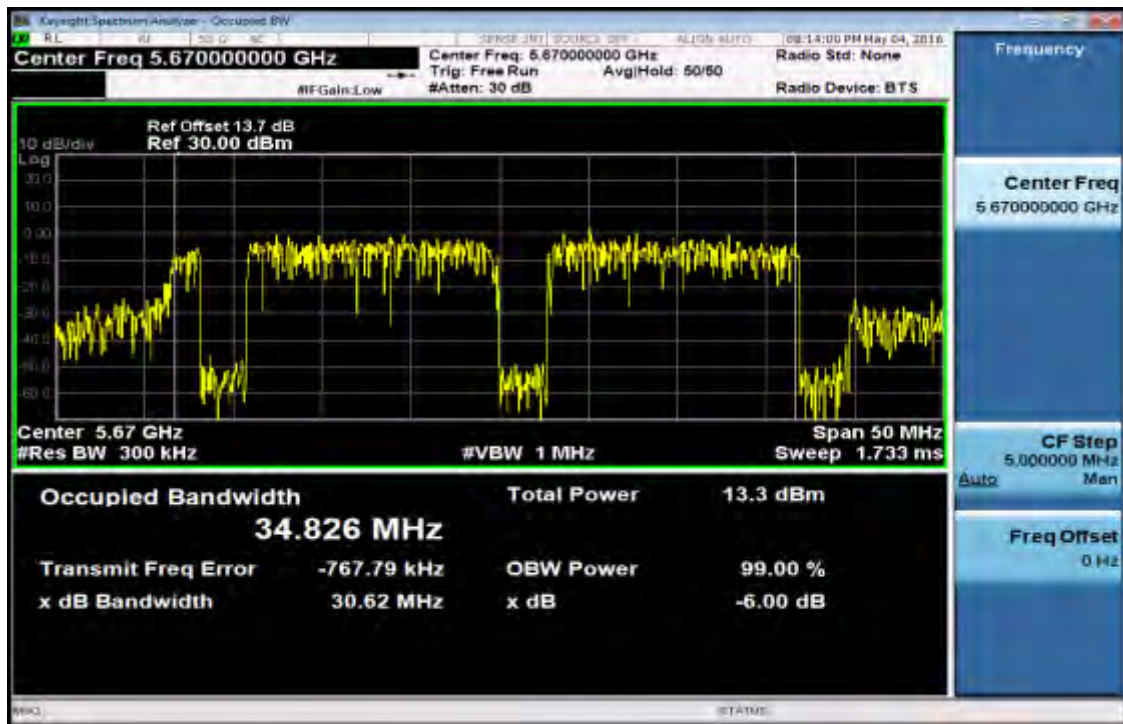
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99% Band Width Test Data CH-High (5670 MHz)



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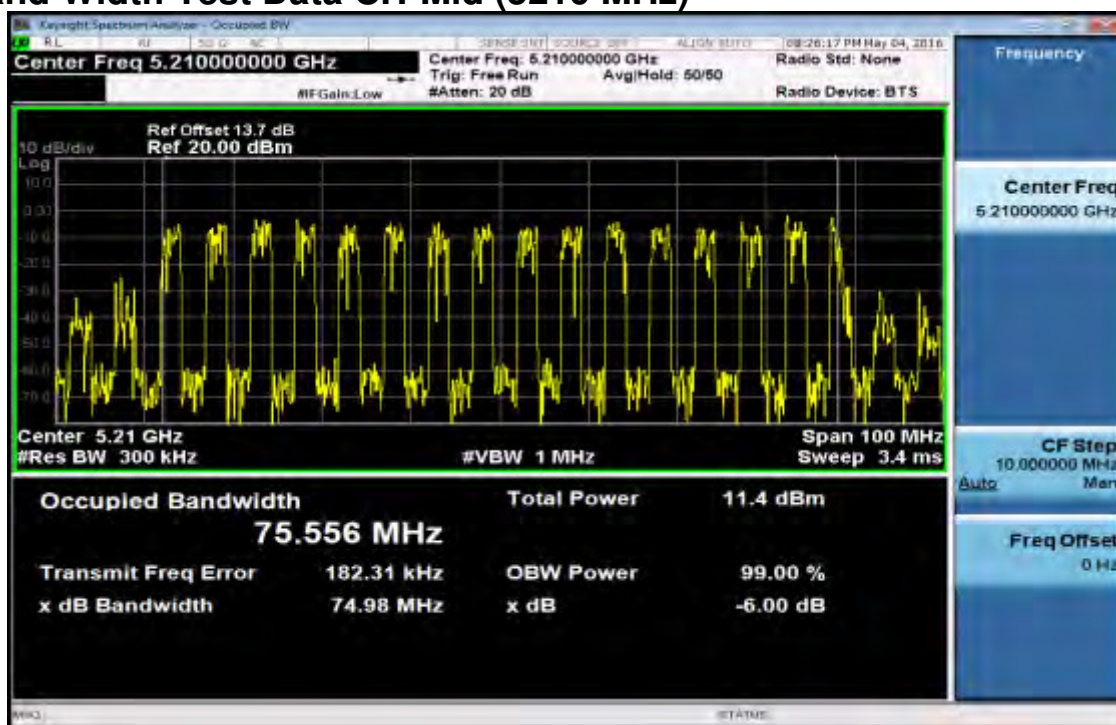
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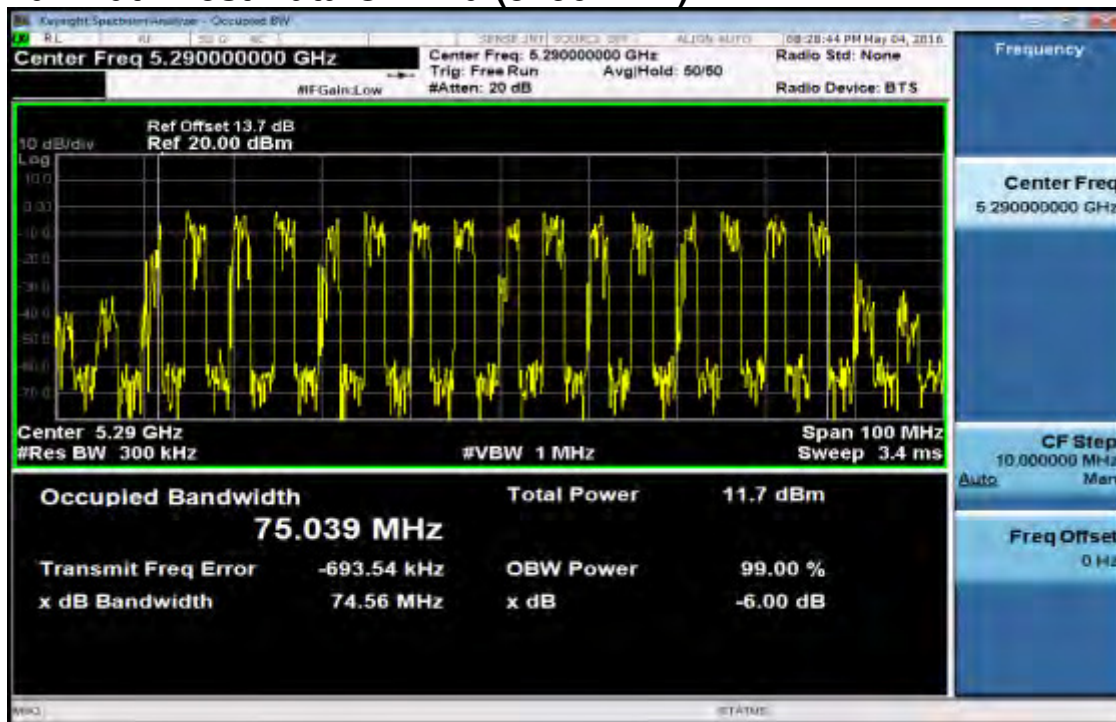
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802.11ac VHT80, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Mid (5210 MHz)



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



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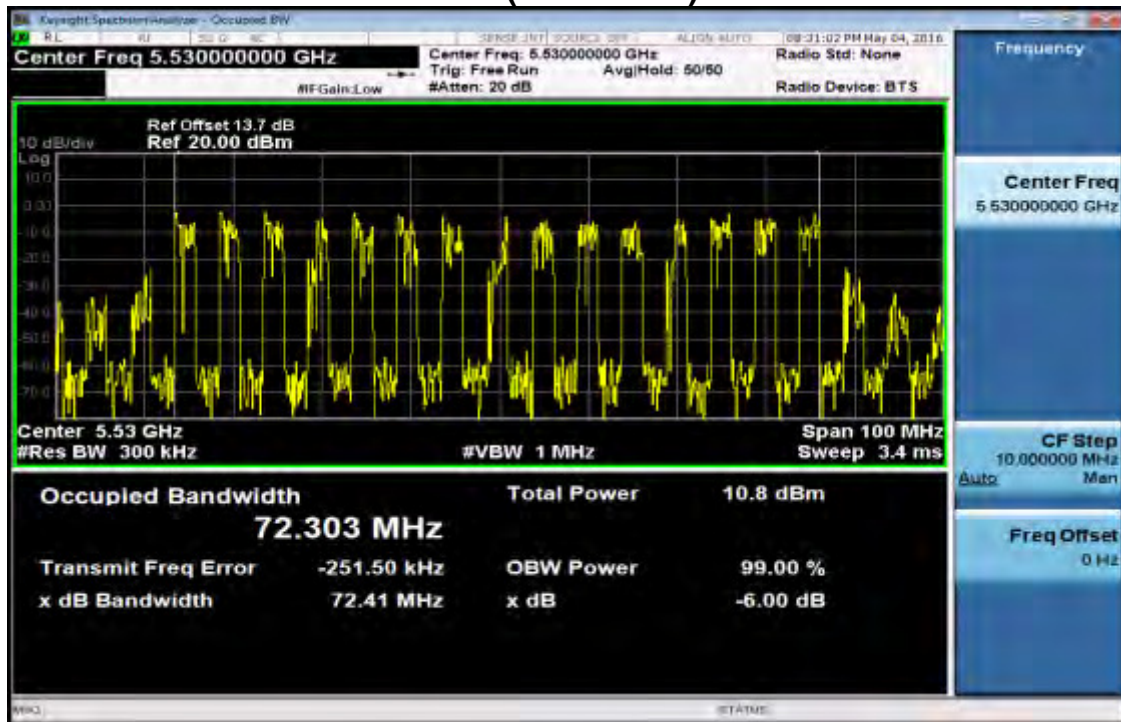
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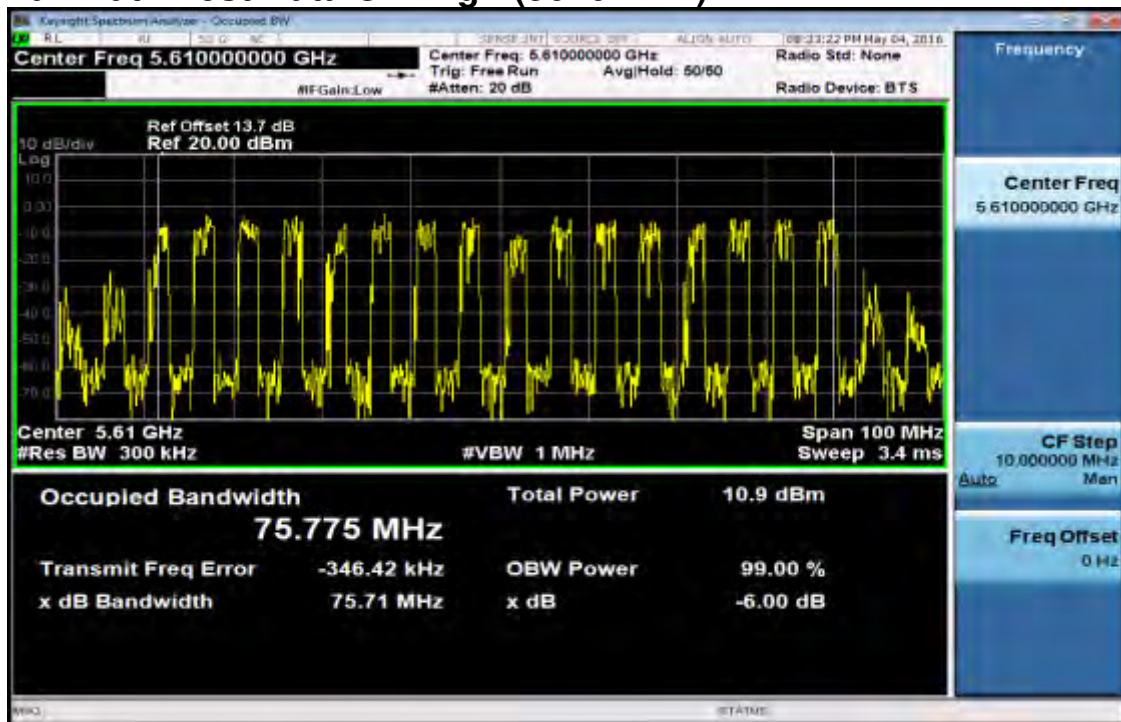
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802.11ac VHT80, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (Main) 99% Band Width Test Data CH-High (5610 MHz)



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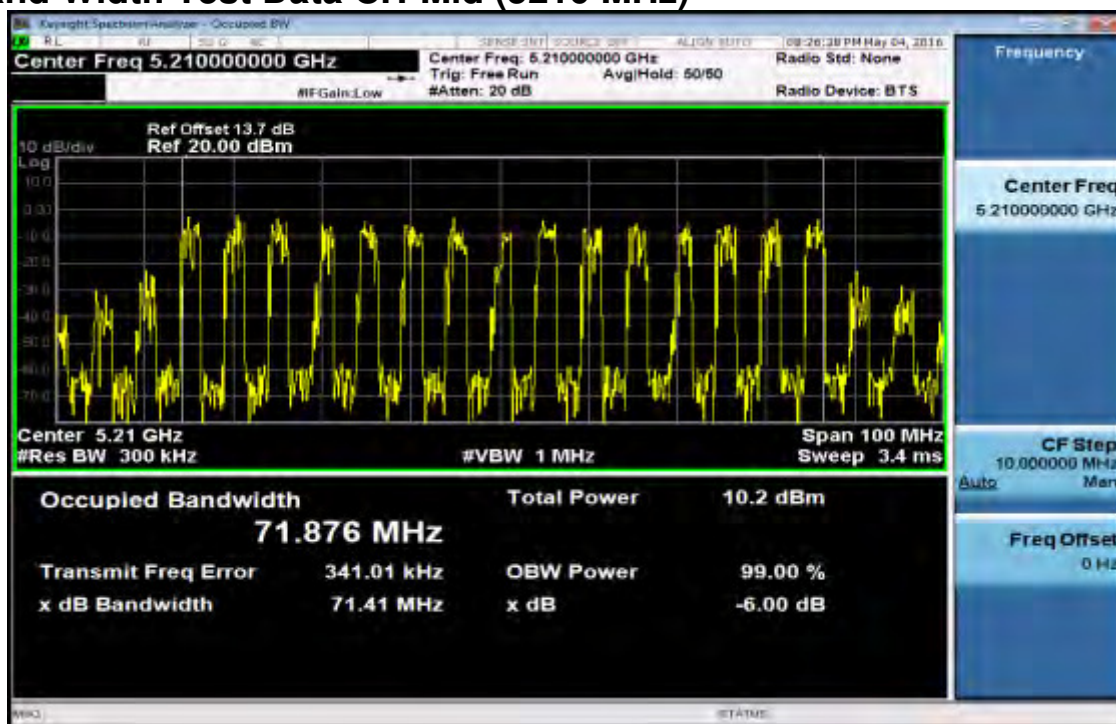
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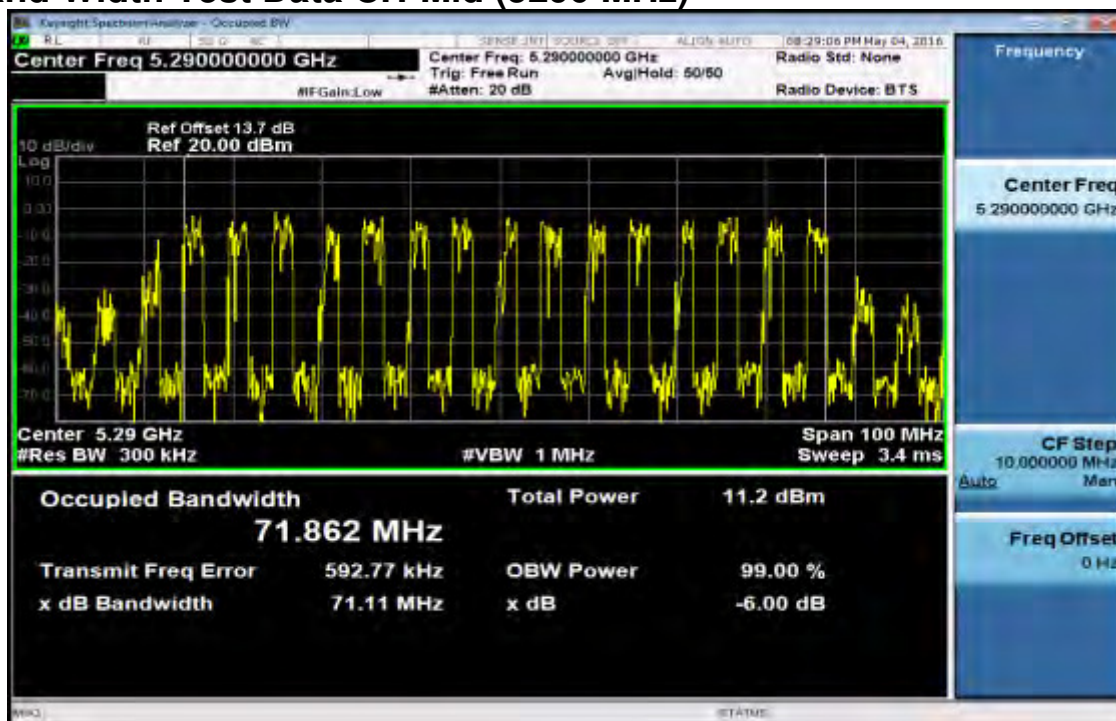
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802.11ac VHT80, 5150~5250 MHz (Aux1) 99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz (Aux1) 99% Band Width Test Data CH-Mid (5290 MHz)



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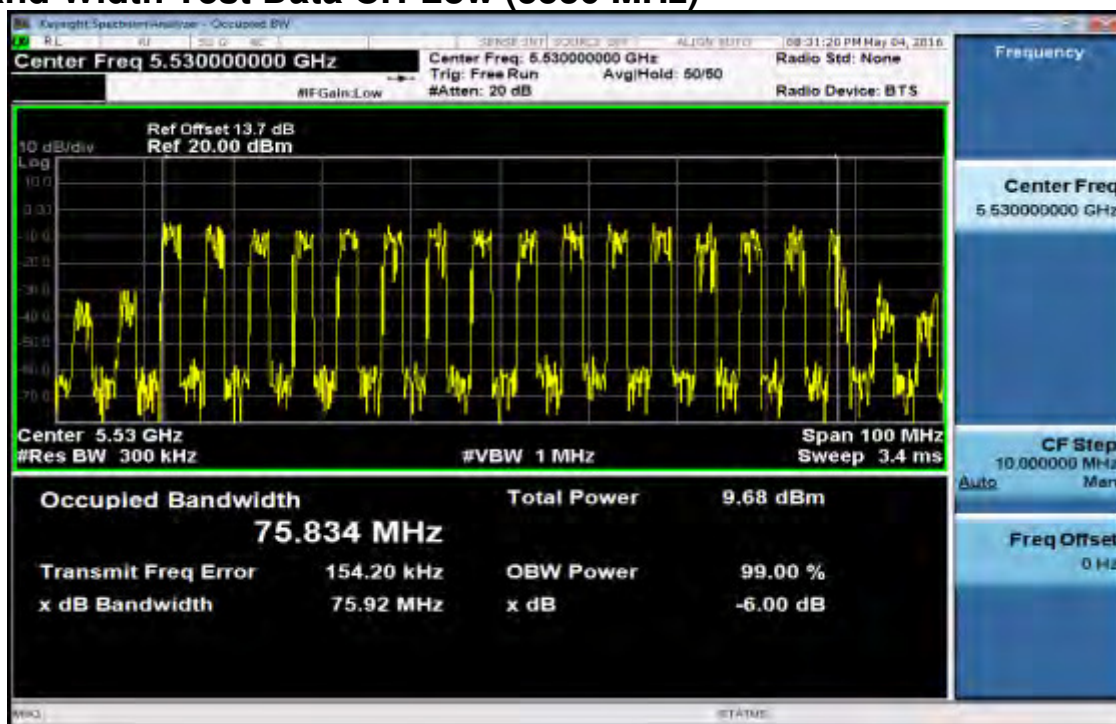
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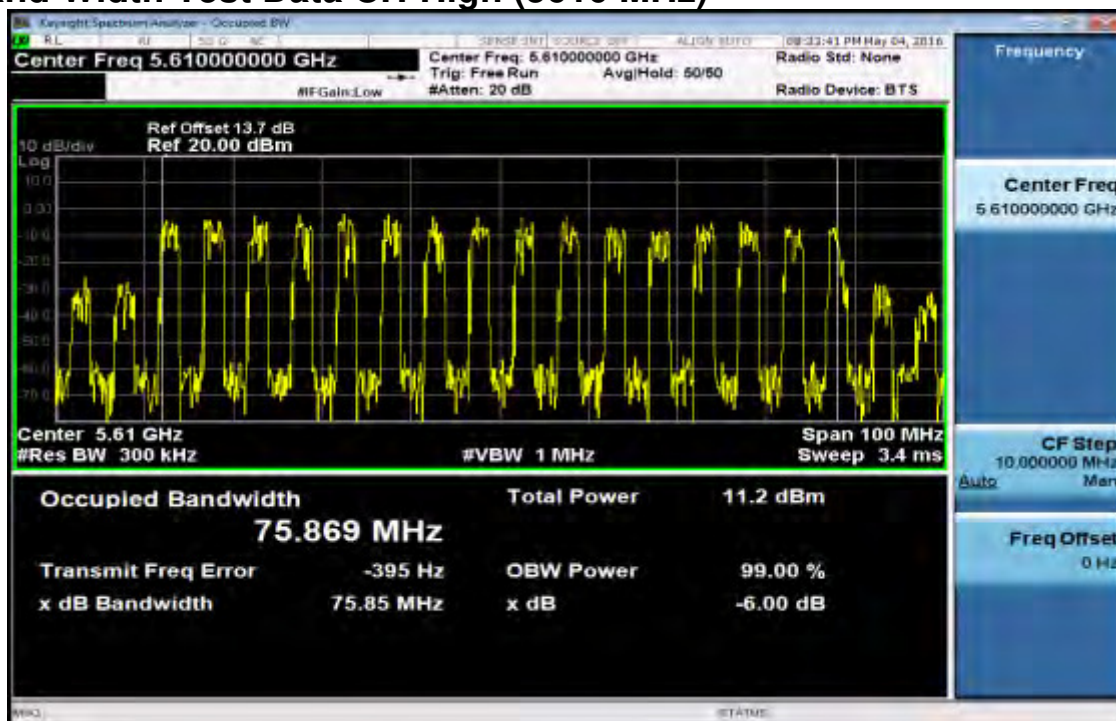
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802.11ac VHT80, 5470~5725 MHz (Aux1) 99% Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (Aux1) 99% Band Width Test Data CH-High (5610 MHz)



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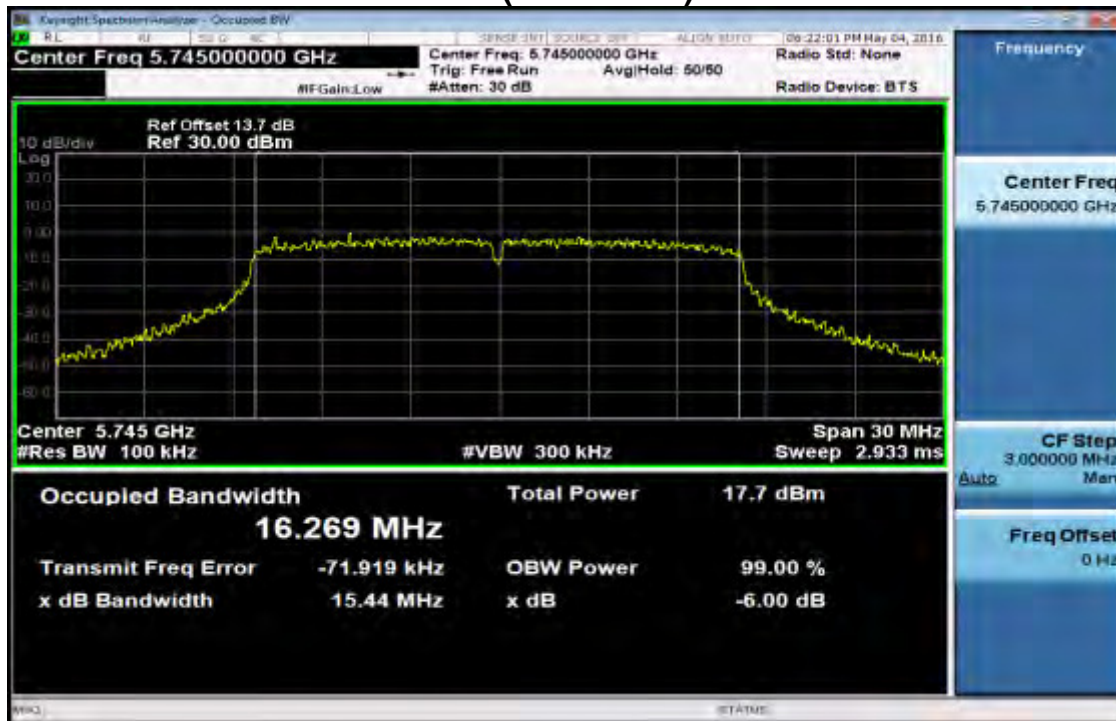
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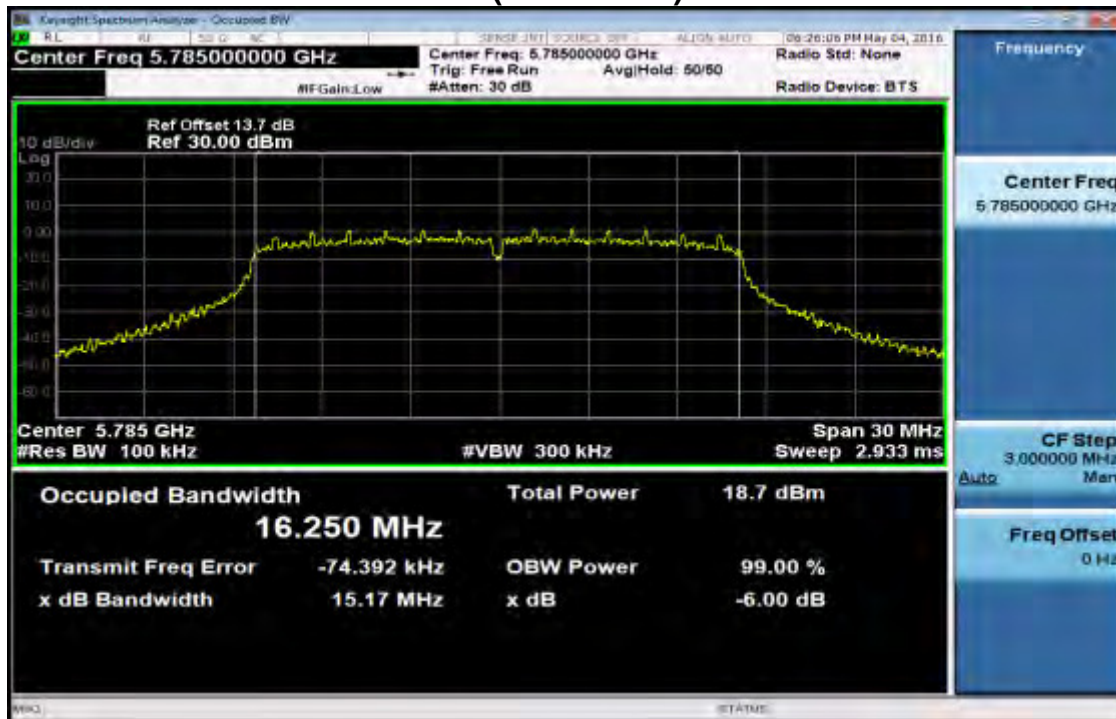
6dB Band Width measure with Peak detector for FCC

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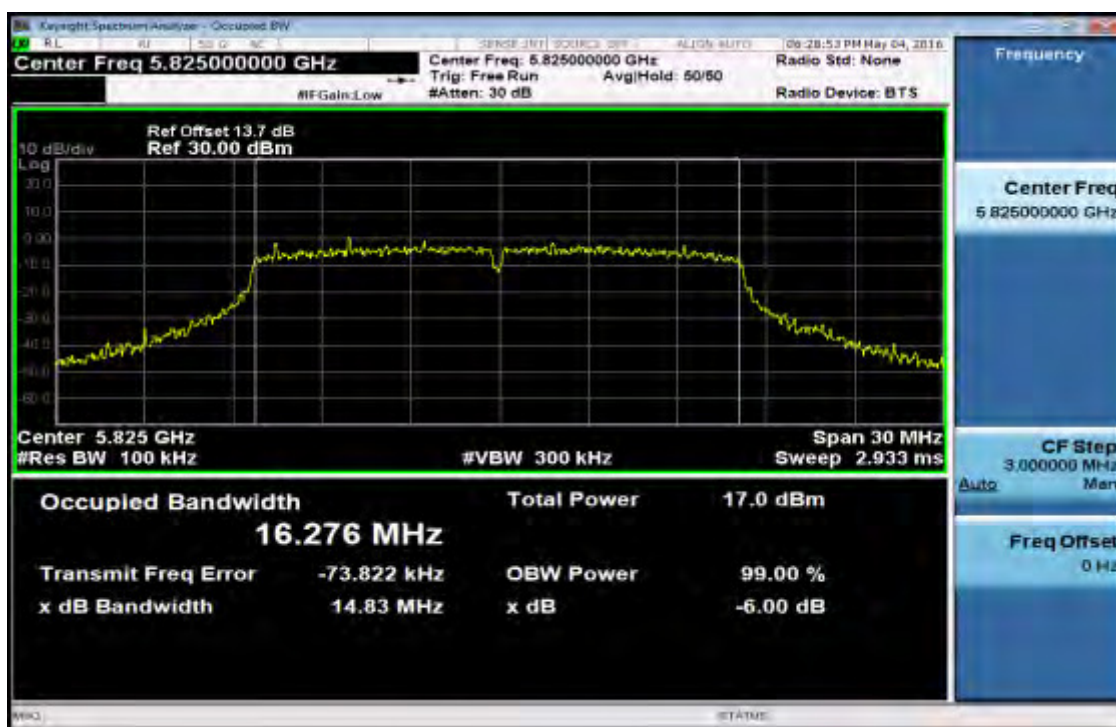
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6dB Band Width Test Data CH-High (5825 MHz)



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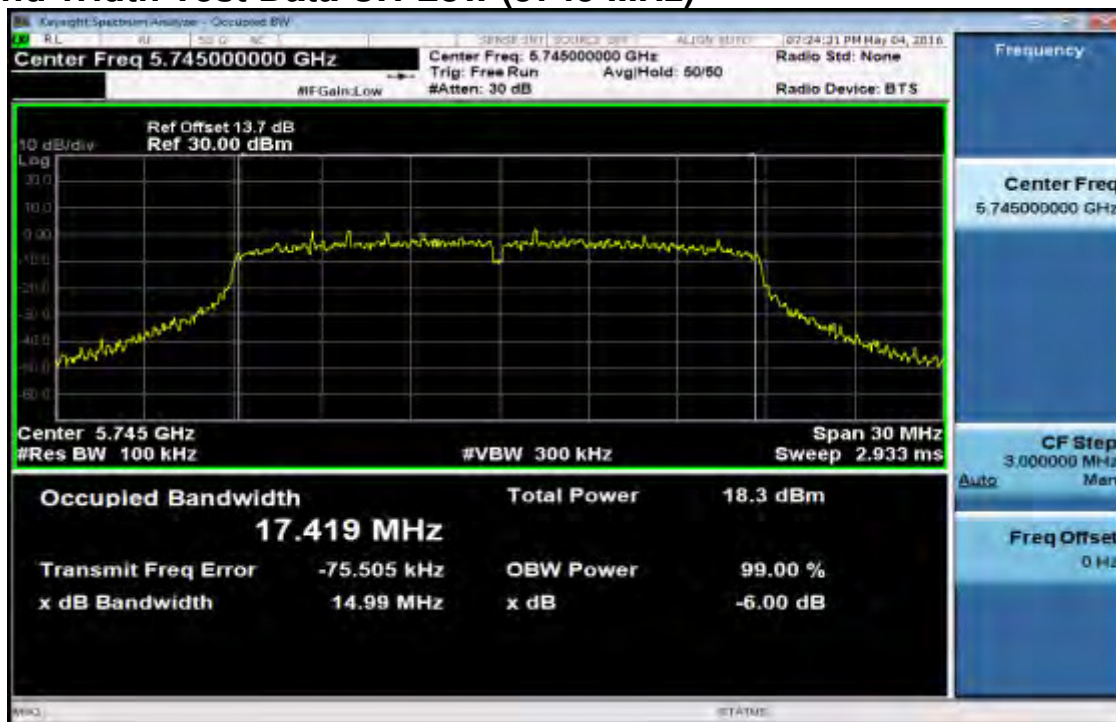
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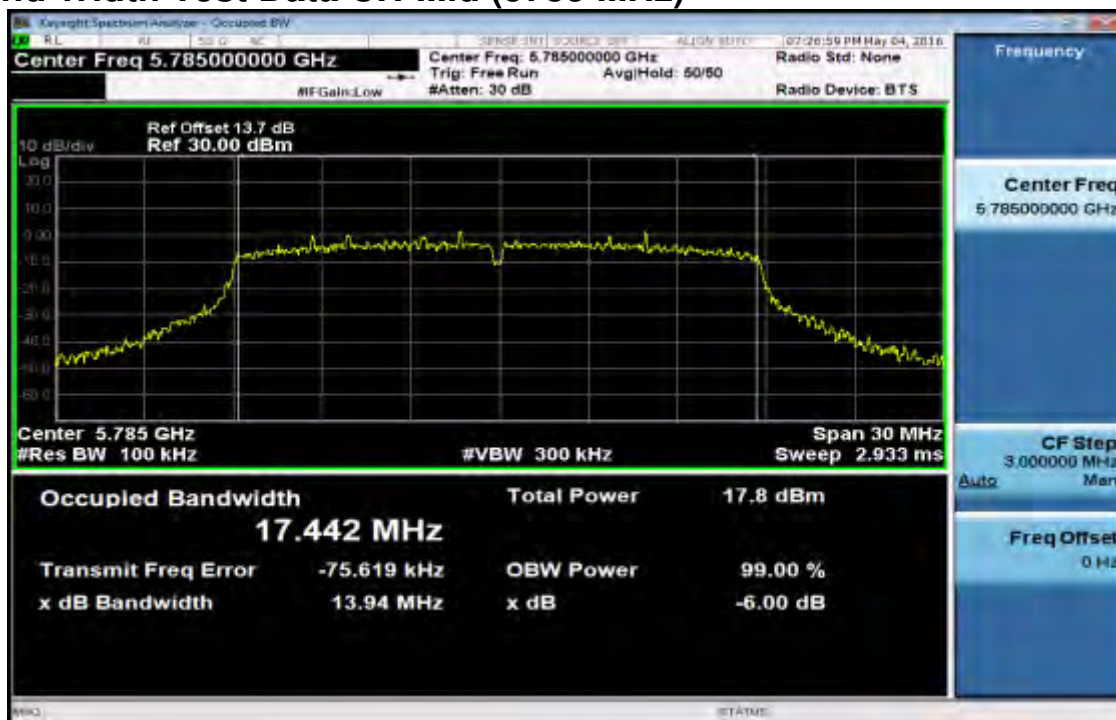
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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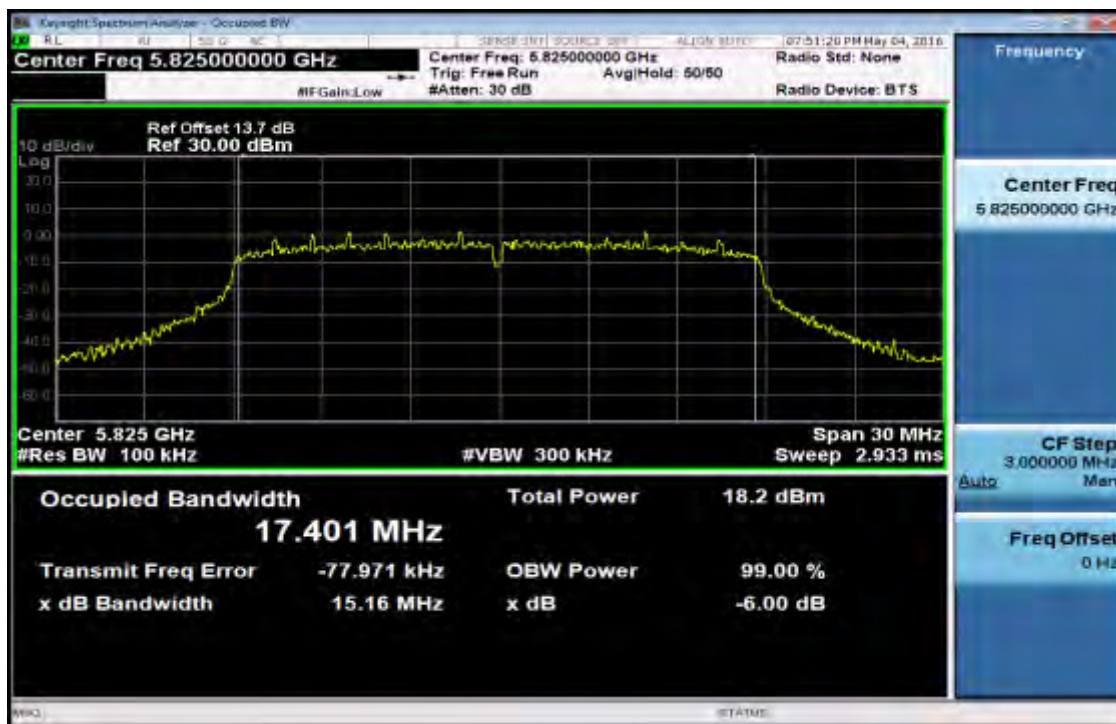
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6dB Band Width Test Data CH-High (5825 MHz)



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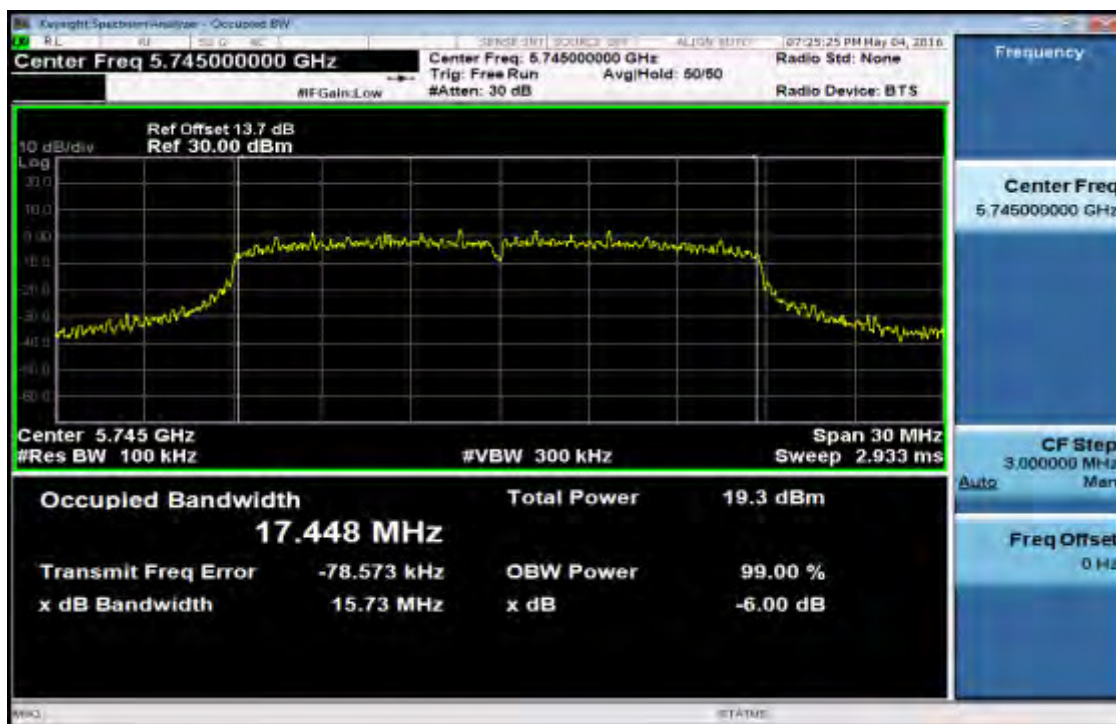
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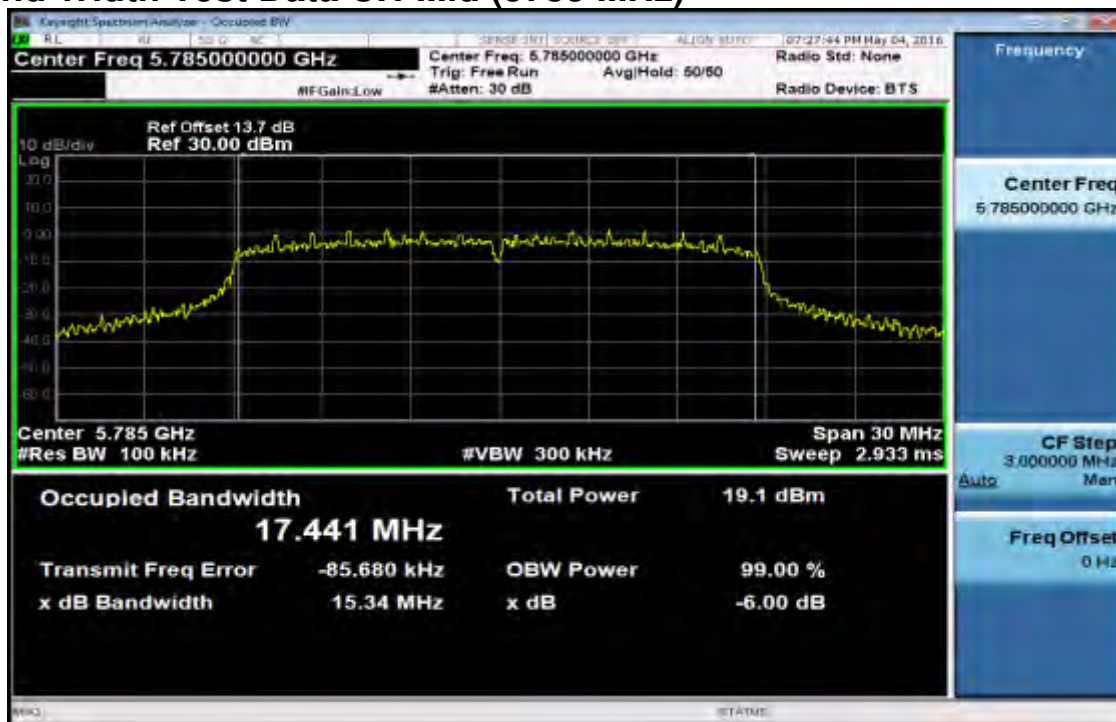
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6dB Band Width Test Data CH-Mid (5785 MHz)



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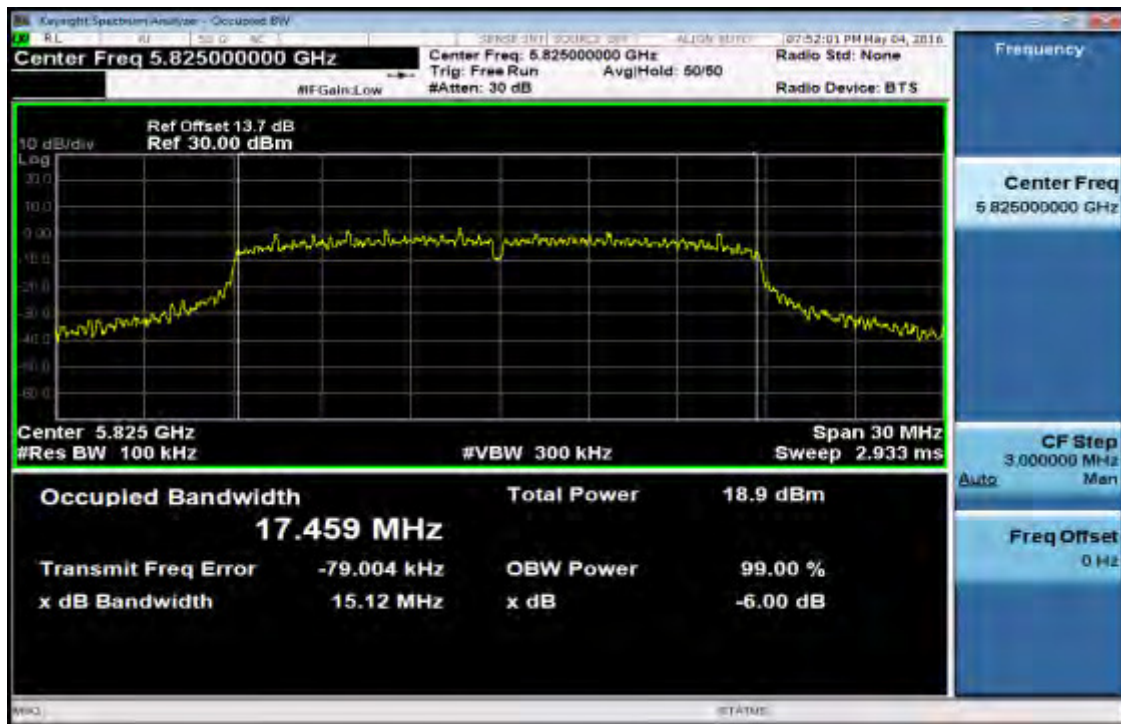
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6dB Band Width Test Data CH-High (5825 MHz)



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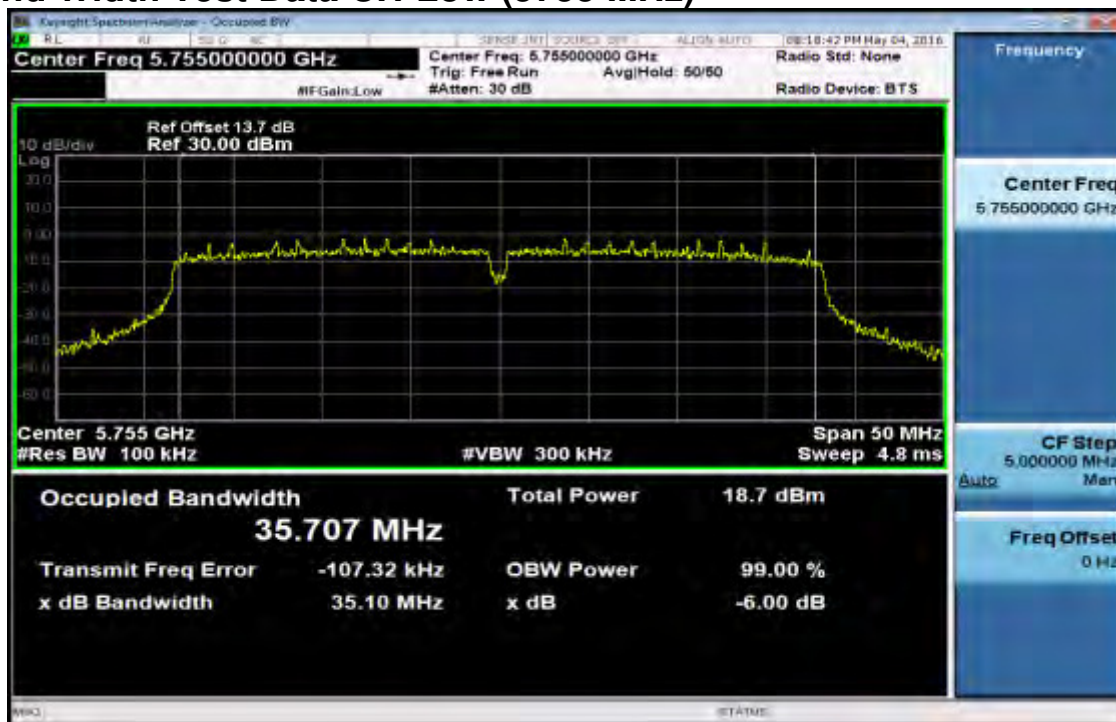
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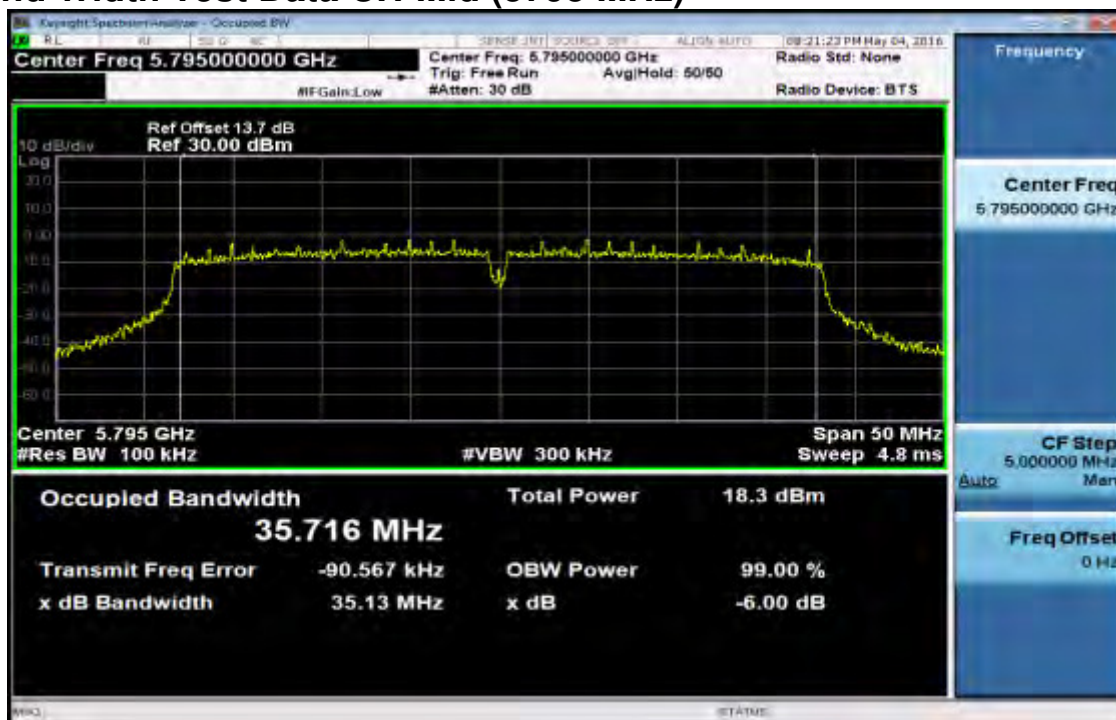
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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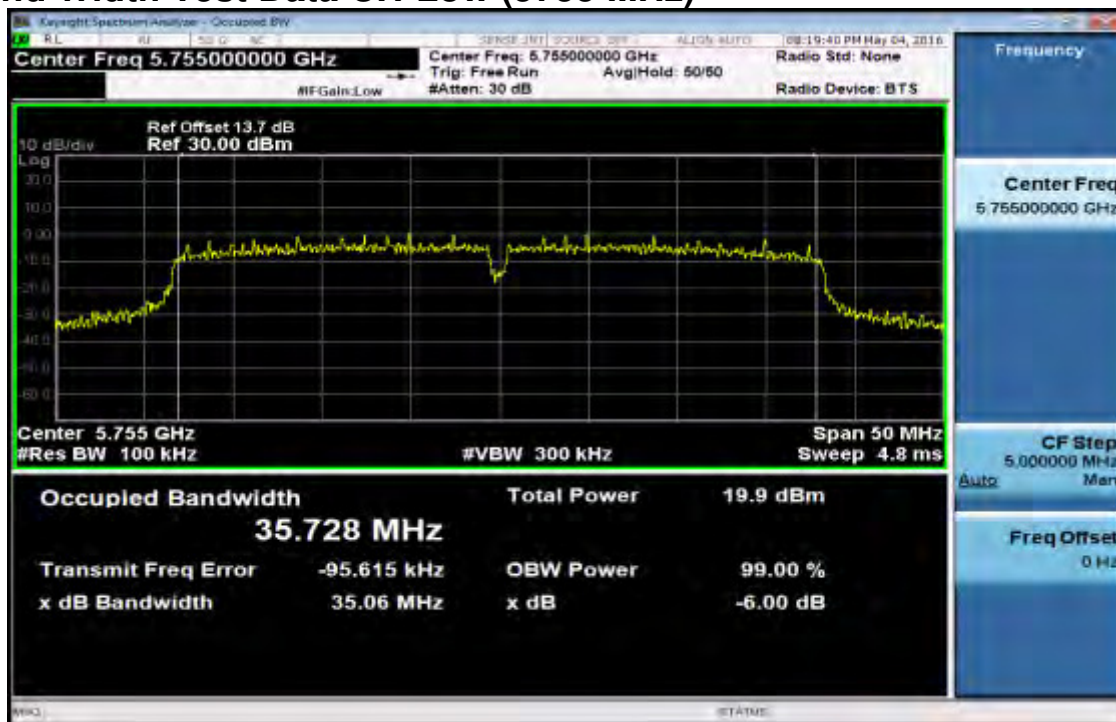
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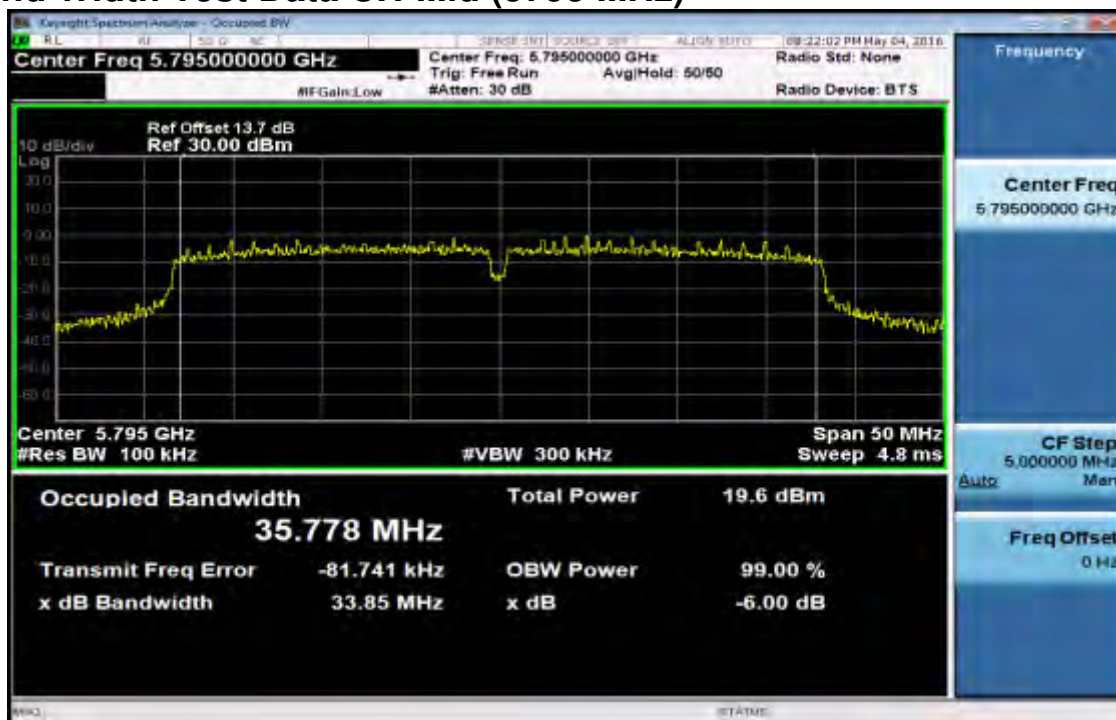
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802.11n_HT40, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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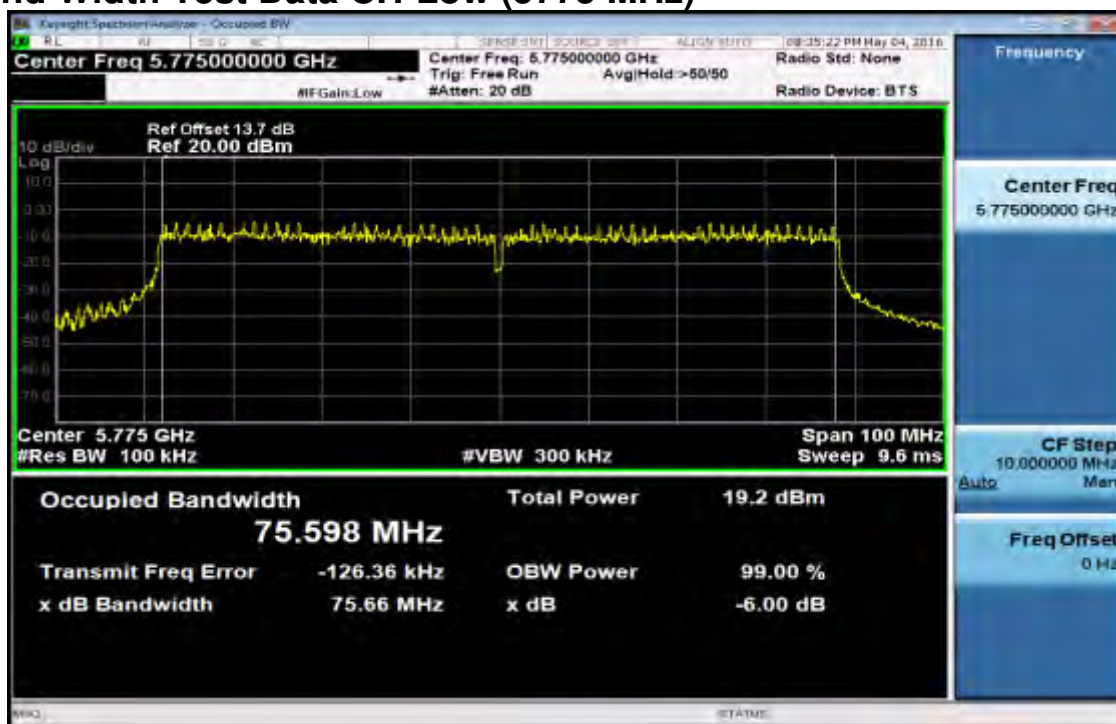
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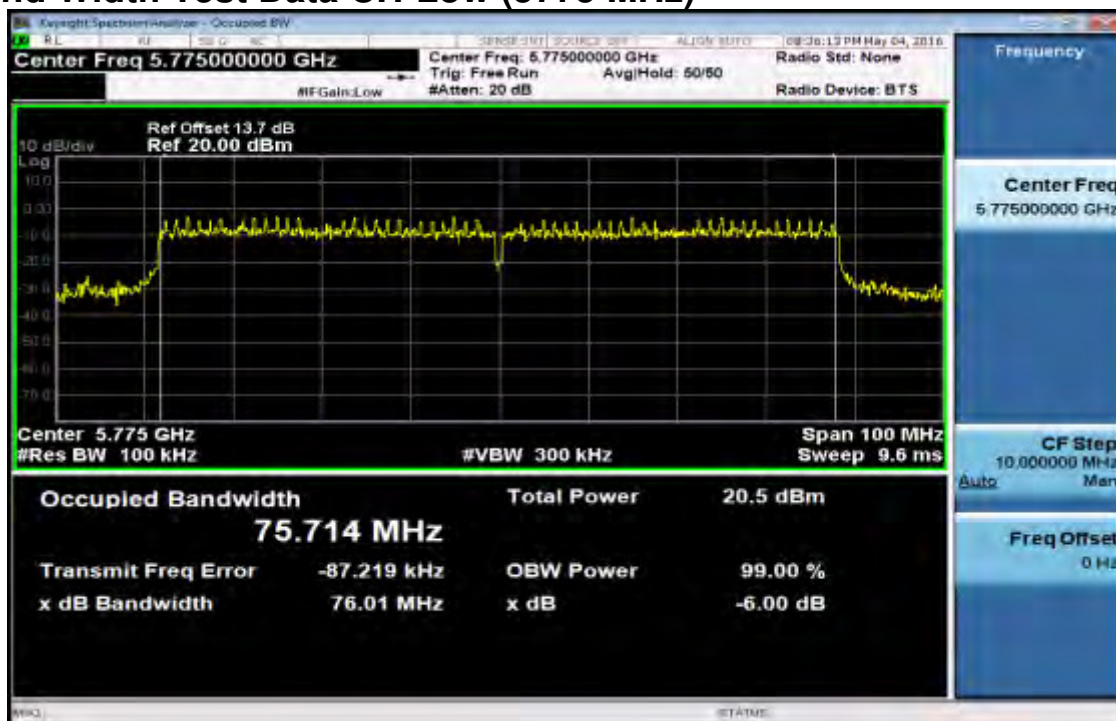
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



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



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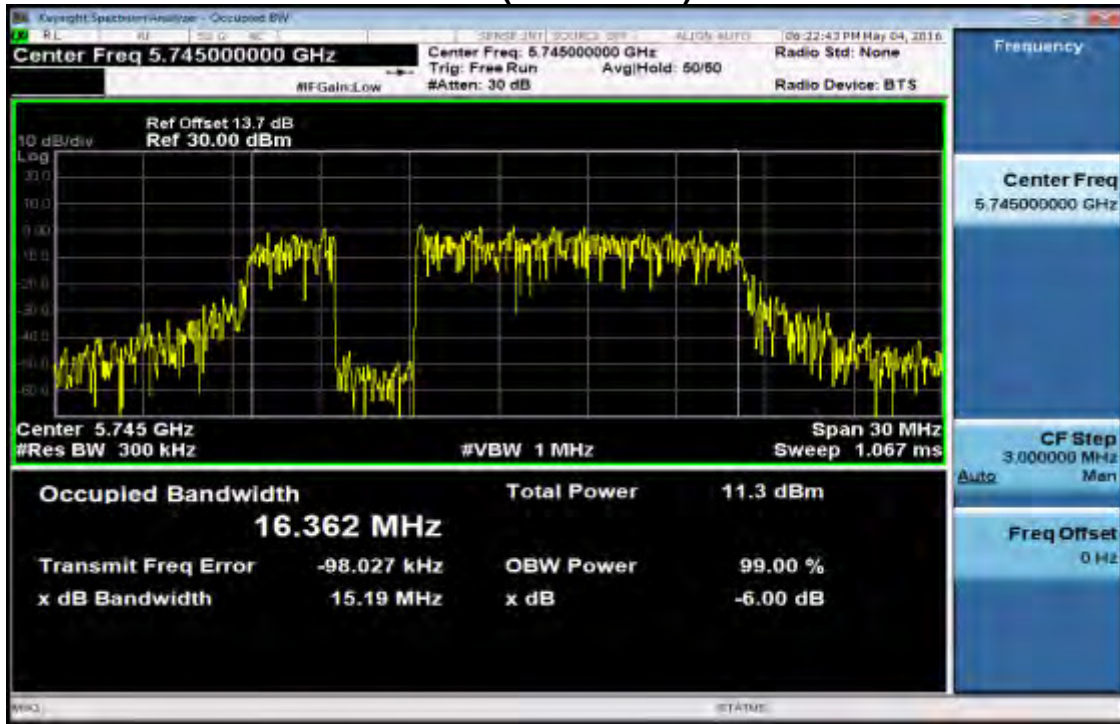
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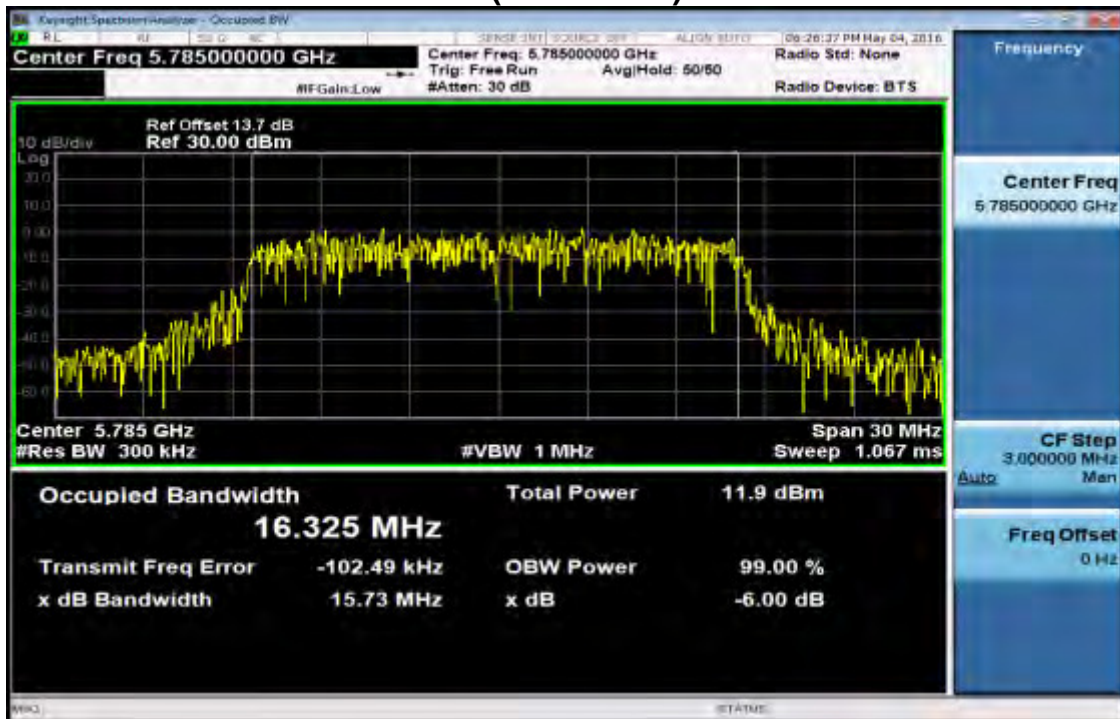
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6dB Band Width measure with Average detector for IC 802.11a, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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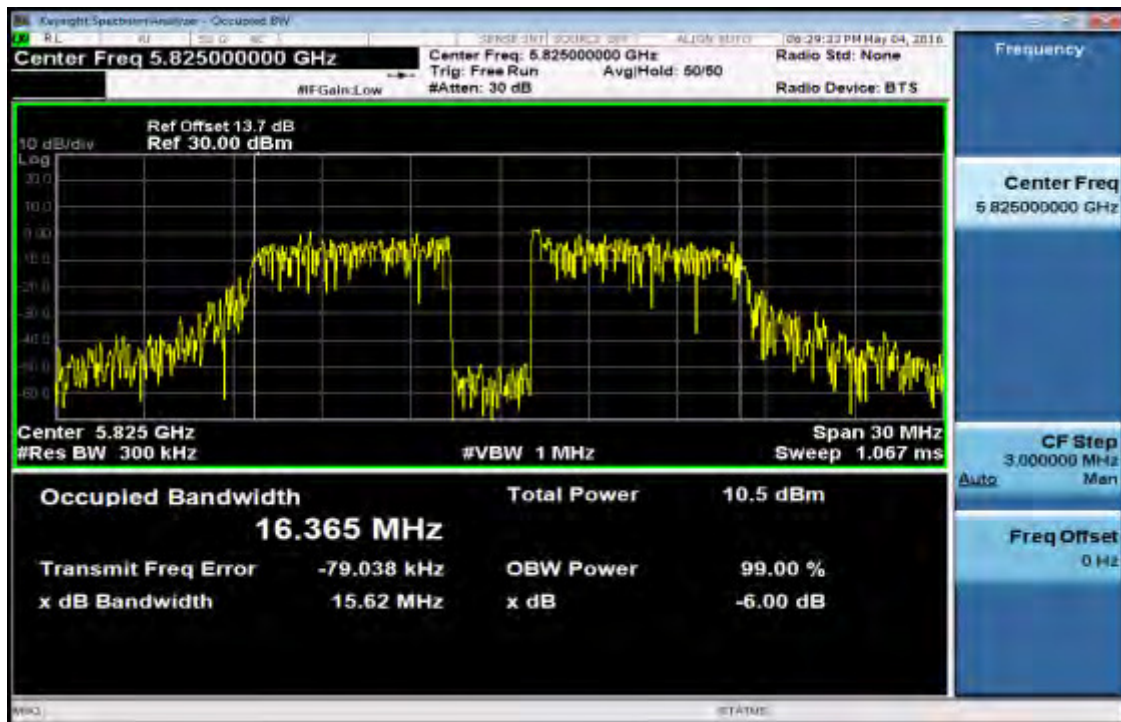
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6dB Band Width Test Data CH-High (5825 MHz)



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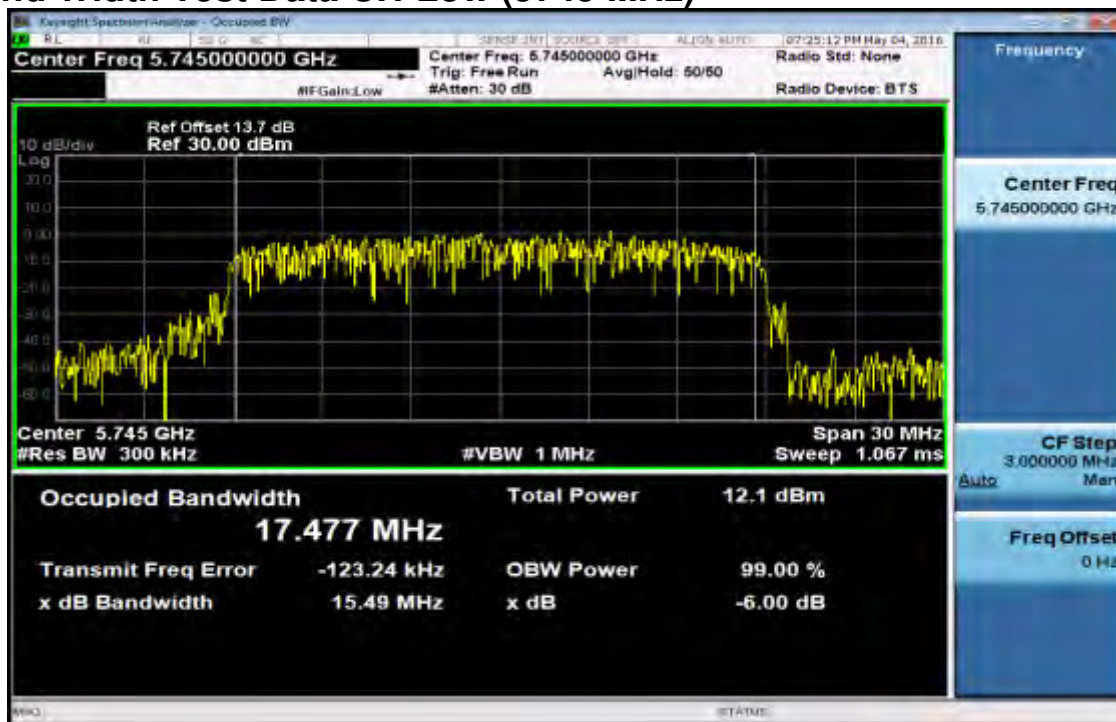
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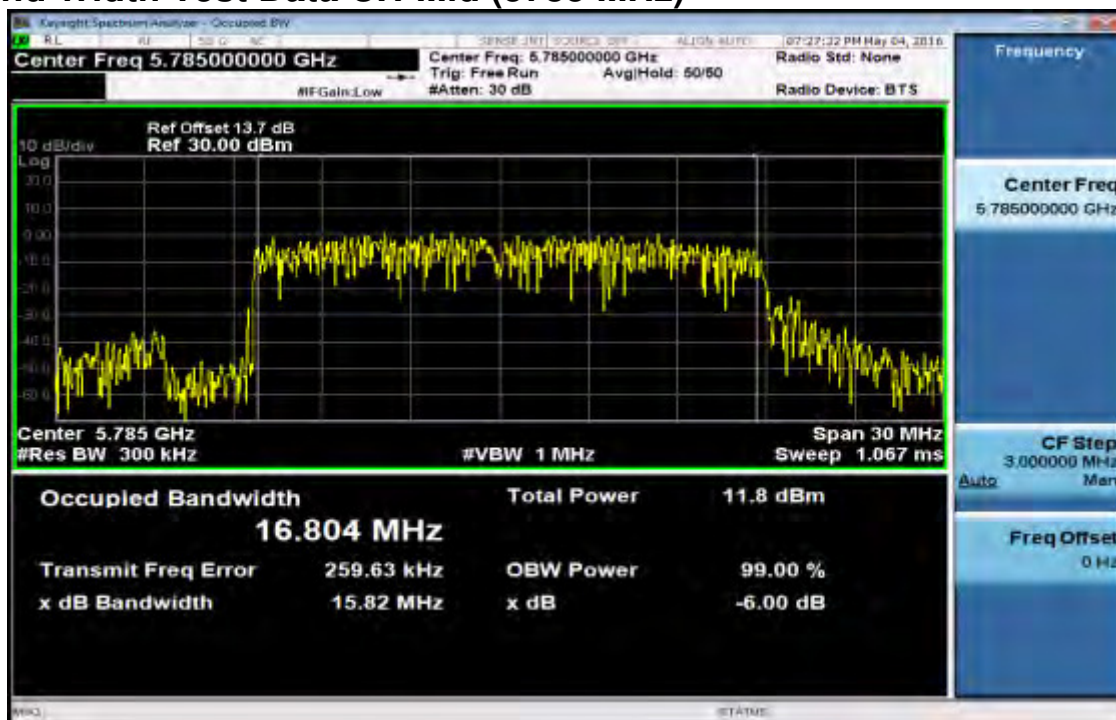
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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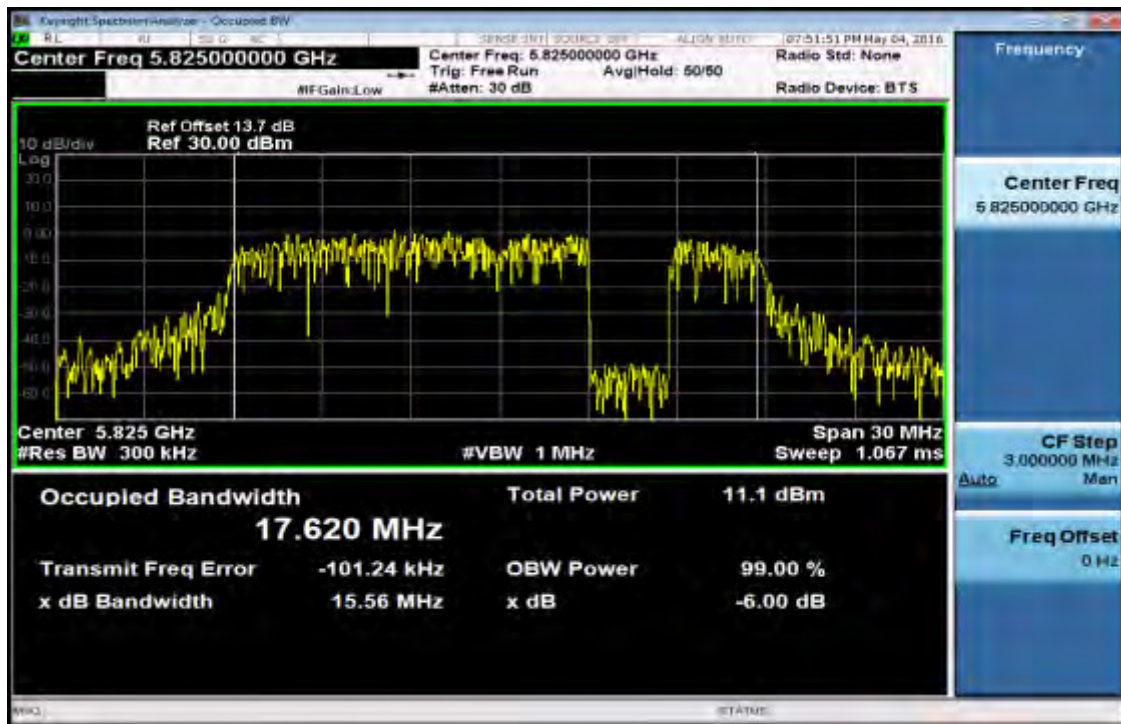
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6dB Band Width Test Data CH-High (5825 MHz)



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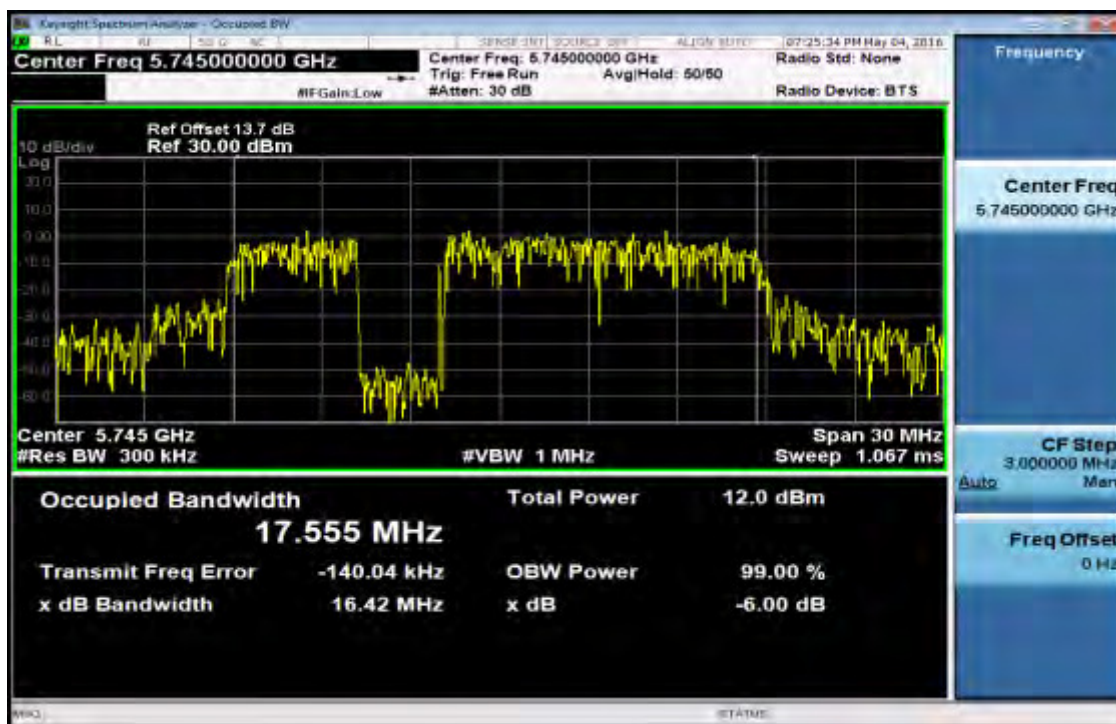
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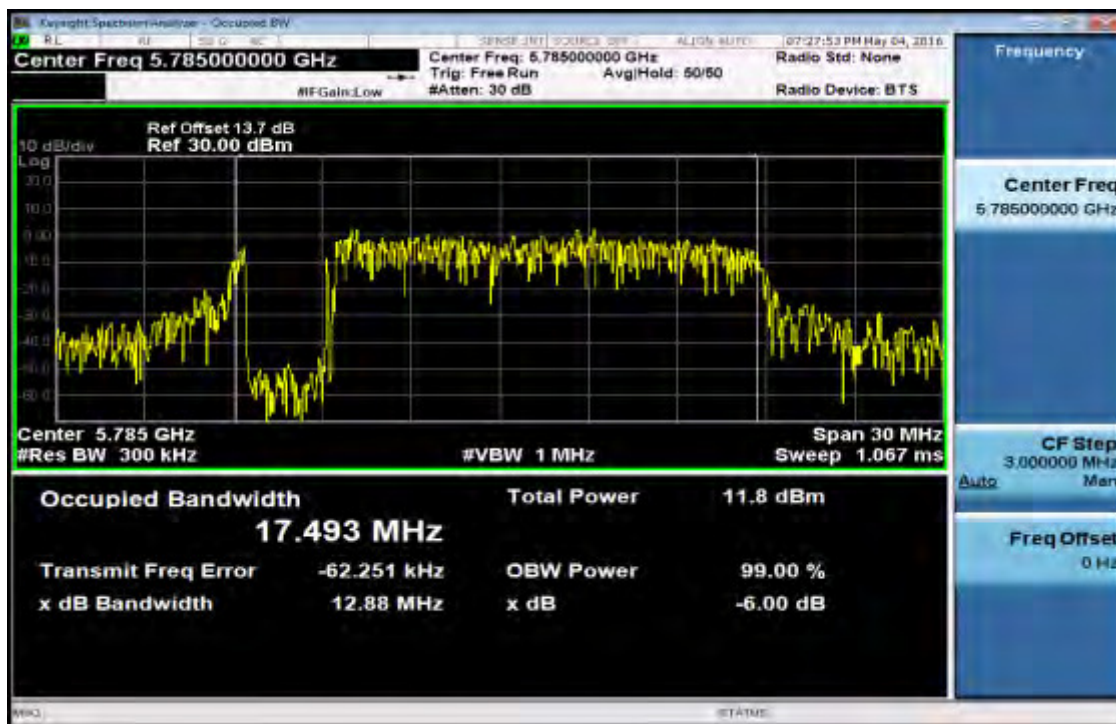
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802.11n_HT20, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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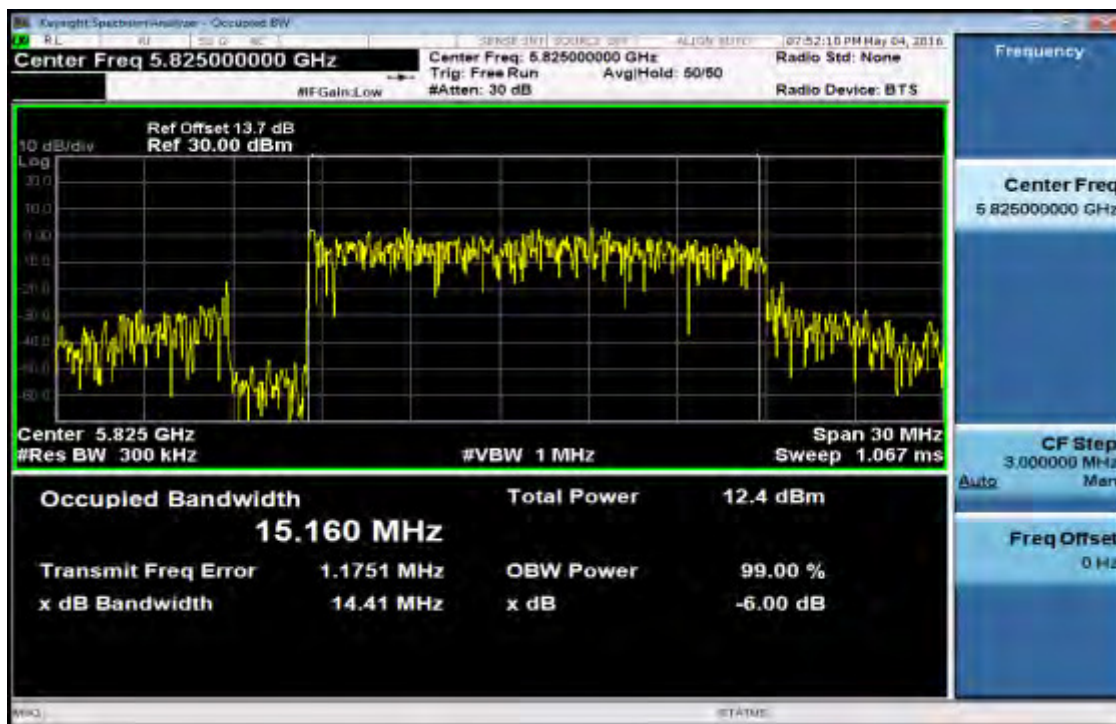
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6dB Band Width Test Data CH-High (5825 MHz)



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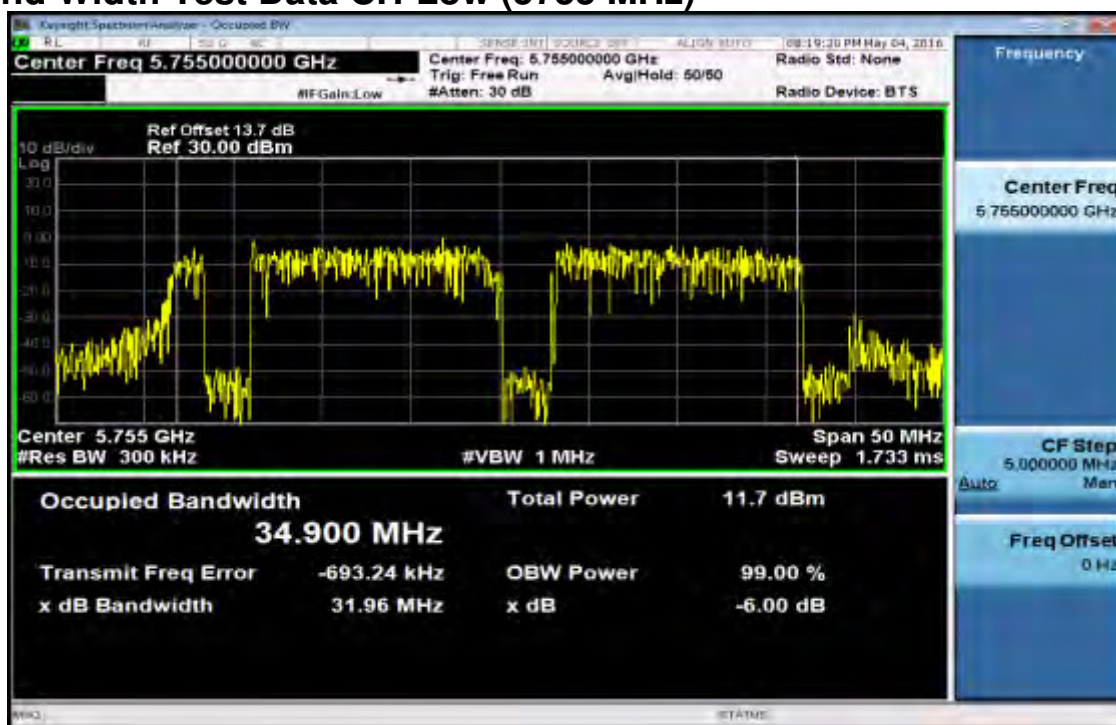
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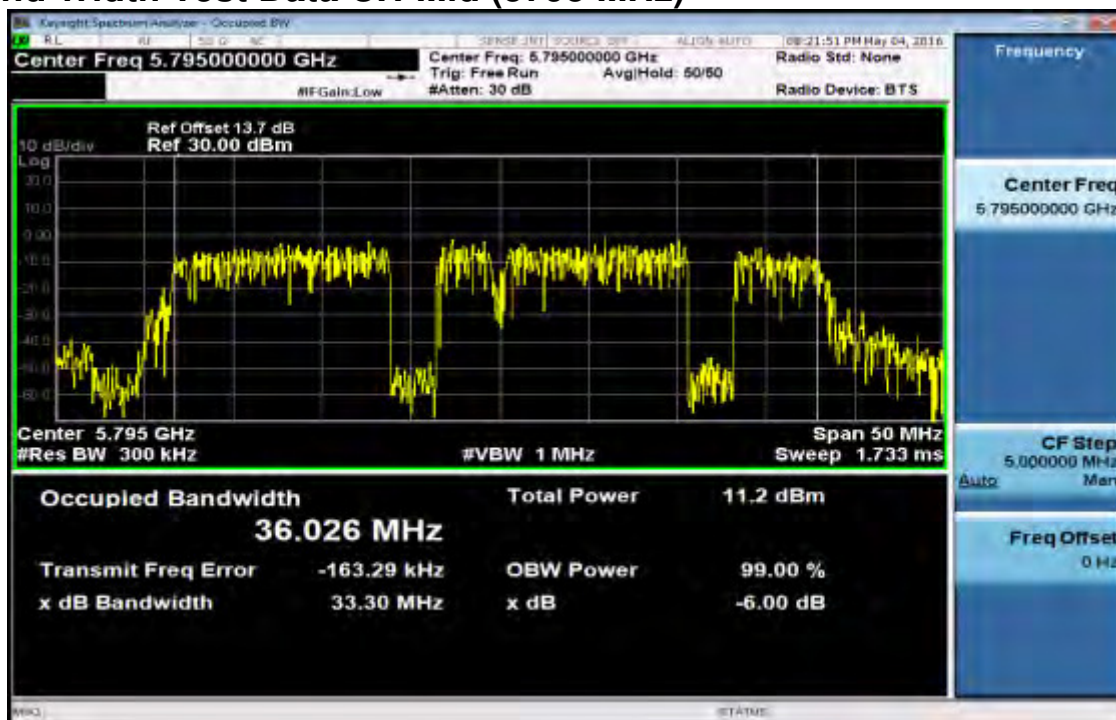
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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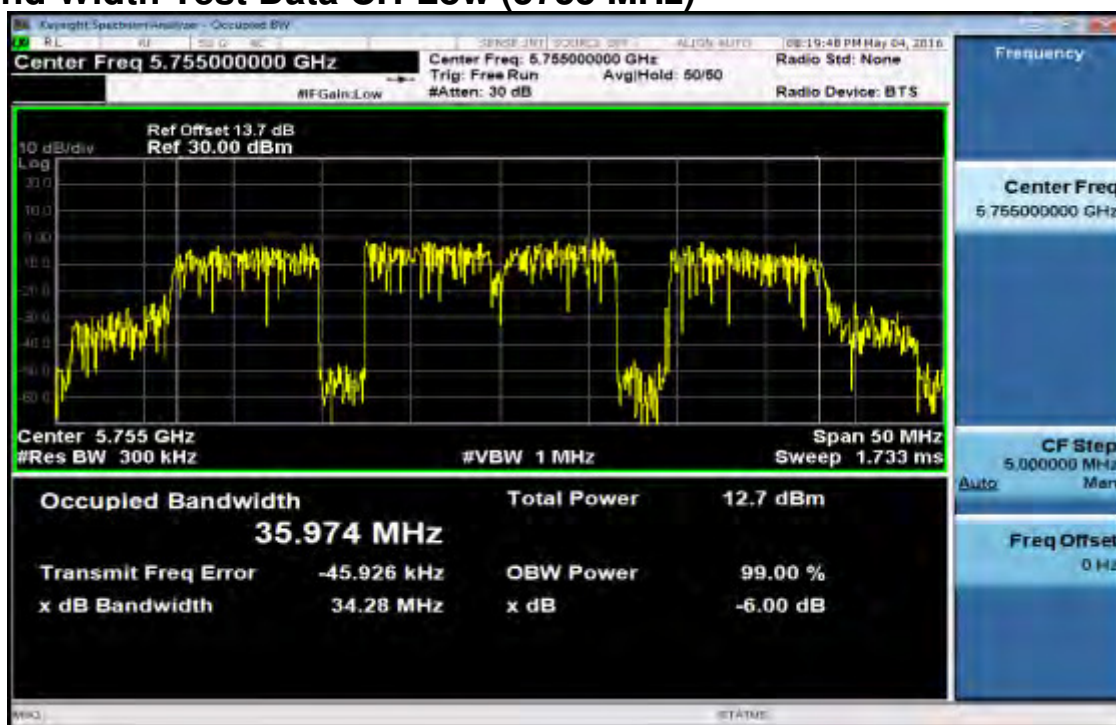
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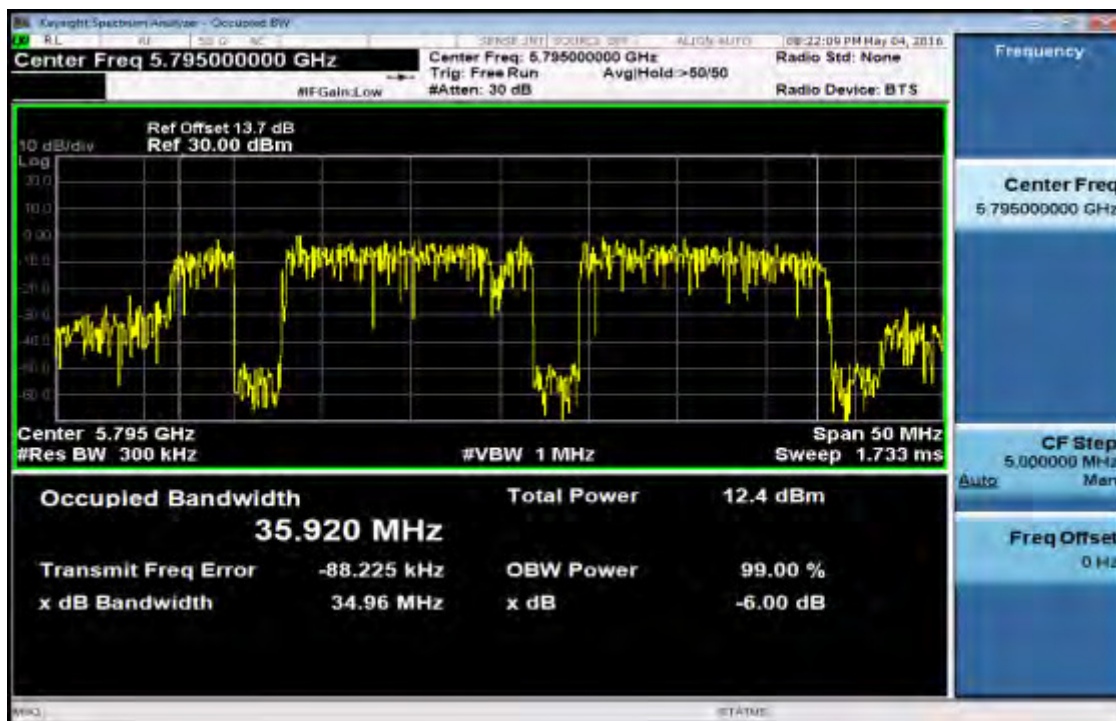
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802.11n_HT40, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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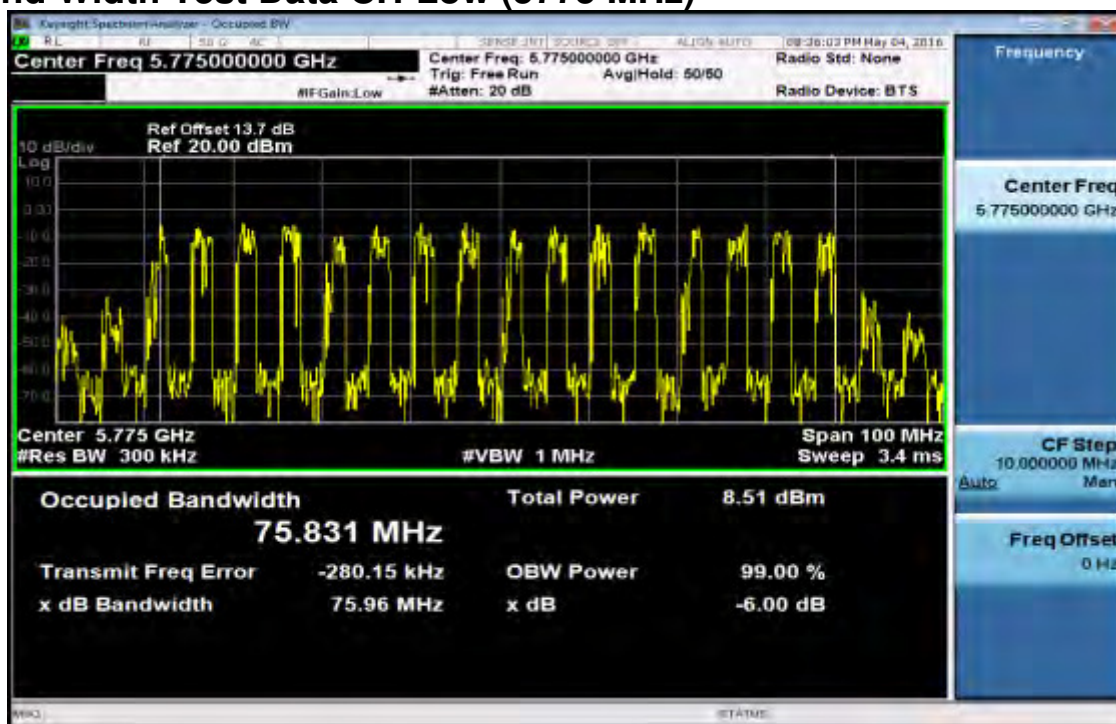
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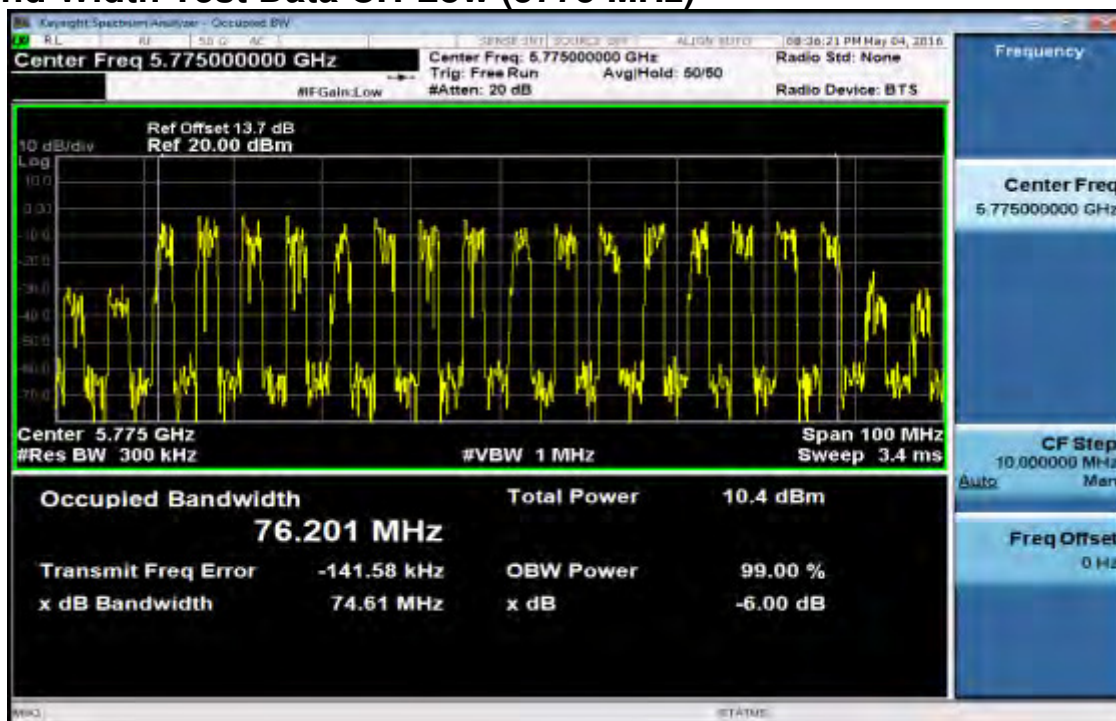
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



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



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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: 0.49 dBi
Antenna2 Gain: 0.4 dBi
Number Antenna: 2 pcs
Limit: 17 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 3.455 dBi
Limit: 17dBm – (3.455– 6dBi)=17

Note: 5.25-5.35G

Antenna1 Gain: 0.31 dBi
Antenna2 Gain: 0.33 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 3.33 dBi
Limit: 11dBm – (3.33– 6dBi)=11

Note: 5.47-5.725G

Antenna1 Gain: 2.44 dBi
Antenna2 Gain: 2.6 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 5.511 dBi
Limit: 11dBm – (5.511– 6dBi)=11

Note: 5.725-5.825G

Antenna1 Gain: 2.15 dBi
Antenna2 Gain: 0.87 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 4.544 dBi
Limit: 30dBm – (4.544– 6dBi)=30

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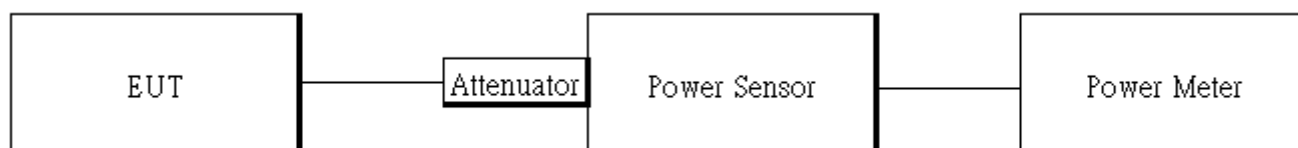
9.2 Measurement Procedure

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 antenna port 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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 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
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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	05/17/2015	05/16/2016

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

(FCC)

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.99	25.061	23.98	PASS
44	5220	13.92	24.660	23.98	PASS
48	5240	13.91	24.604	23.98	PASS
52	5260	13.85	24.266	23.98 or $11+10\log(B) = 23.86$	PASS
60	5300	13.8	23.988	23.98 or $11+10\log(B) = 23.73$	PASS
64	5320	13.82	24.099	23.98 or $11+10\log(B) = 23.87$	PASS
100	5500	12.88	19.409	23.98 or $11+10\log(B) = 23.82$	PASS
116	5580	12.85	19.275	23.98 or $11+10\log(B) = 23.72$	PASS
140	5700	12.82	19.143	23.98 or $11+10\log(B) = 23.93$	PASS
149	5745	12.95	19.724	30	PASS
157	5785	12.99	19.907	30	PASS
165	5825	12.92	19.588	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	13.89	13.74	16.83	48.150	23.98	PASS
44	5220	13.97	13.86	16.93	49.268	23.98	PASS
48	5240	13.92	13.81	16.88	48.704	23.98	PASS
52	5260	14.03	13.62	16.84	48.307	23.98 or $11+10\log(B) = 23.93$	PASS
60	5300	14.07	13.59	16.85	48.383	23.98 or $11+10\log(B) = 23.93$	PASS
64	5320	14.05	13.56	16.82	48.108	23.98 or $11+10\log(B) = 23.90$	PASS
100	5500	13.15	12.22	15.72	37.326	23.98 or $11+10\log(B) = 23.96$	PASS
116	5580	13.05	12.14	15.63	36.552	23.98 or $11+10\log(B) = 23.94$	PASS
140	5700	13.11	12.18	15.68	36.984	23.98 or $11+10\log(B) = 23.93$	PASS
149	5745	13.04	12.48	15.78	37.838	30	PASS
157	5785	12.98	12.44	15.73	37.400	30	PASS
165	5825	13	12.4	15.72	37.331	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	13.89	13.81	16.86	48.534	23.98	PASS
46	5230	13.99	13.79	16.90	48.994	23.98	PASS
54	5270	14.14	13.55	16.87	48.588	23.98 or $11+10\log(B) = 26.99$	PASS
62	5310	14.23	13.66	16.96	49.712	23.98 or $11+10\log(B) = 26.98$	PASS
102	5510	12.08	11.3	14.72	29.633	23.98 or $11+10\log(B) = 26.94$	PASS
110	5550	12.34	11.41	14.91	30.975	23.98 or $11+10\log(B) = 27.04$	PASS
134	5670	11.74	11.99	14.88	30.740	23.98 or $11+10\log(B) = 27.04$	PASS
151	5755	12.05	11.17	14.64	29.124	30	PASS
159	5795	12.45	11.44	14.98	31.511	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
42	5210	12.76	12.4	15.59	36.258	23.98	PASS
58	5290	12.58	12.47	15.54	35.774	23.98 or $11+10\log(B) = 30.64$	PASS
106	5530	11.3	10.38	13.87	24.404	23.98 or $11+10\log(B) = 30.79$	PASS
122	5610	12.99	12.93	15.97	39.540	23.98 or $11+10\log(B) = 30.69$	PASS
155	5775	10.08	9.11	12.63	18.333	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	13.85	24.266	23.98 or $11+10\log(B) = 23.10$	PASS
60	5300	13.80	23.988	23.98 or $11+10\log(B) = 23.13$	PASS
64	5320	13.82	24.099	23.98 or $11+10\log(B) = 23.14$	PASS
100	5500	12.88	19.409	23.98 or $11+10\log(B) = 23.13$	PASS
116	5580	12.85	19.275	23.98 or $11+10\log(B) = 23.13$	PASS
140	5700	12.82	19.143	23.98 or $11+10\log(B) = 23.12$	PASS
149	5745	12.95	19.724	30	PASS
157	5785	12.99	19.907	30	PASS
165	5825	12.92	19.588	30	PASS

802.11n HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
52	5260	14.03	13.62	16.84	48.307	23.98 or $11+10\log(B) = 23.32$	PASS
60	5300	14.07	13.59	16.85	48.383	23.98 or $11+10\log(B) = 22.95$	PASS
64	5320	14.05	13.56	16.82	48.108	23.98 or $11+10\log(B) = 23.42$	PASS
100	5500	13.15	12.22	15.72	37.326	23.98 or $11+10\log(B) = 23.42$	PASS
116	5580	13.05	12.14	15.63	36.552	23.98 or $11+10\log(B) = 23.45$	PASS
140	5700	13.11	12.18	15.68	36.984	23.98 or $11+10\log(B) = 23.40$	PASS
149	5745	13.04	12.48	15.78	37.838	30	PASS
157	5785	12.98	12.44	15.73	37.400	30	PASS
165	5825	13	12.4	15.72	37.331	30	PASS

802.11n HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
54	5270	14.14	13.55	16.87	48.588	23.98 or $11+10\log(B) = 26.28$	PASS
62	5310	14.23	13.66	16.96	49.712	23.98 or $11+10\log(B) = 26.49$	PASS
102	5510	12.08	11.3	14.72	29.633	23.98 or $11+10\log(B) = 26.55$	PASS
110	5550	12.34	11.41	14.91	30.975	23.98 or $11+10\log(B) = 26.55$	PASS
134	5670	11.74	11.99	14.88	30.740	23.98 or $11+10\log(B) = 26.42$	PASS
151	5755	12.05	11.17	14.64	29.124	30	PASS
159	5795	12.45	11.44	14.98	31.511	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
58	5290	12.58	12.47	15.54	35.774	23.98 or $11+10\log(B) = 29.56$	PASS
106	5530	11.3	10.38	13.87	24.404	23.98 or $11+10\log(B) = 29.59$	PASS
122	5610	12.99	12.93	15.97	39.540	23.98 or $11+10\log(B) = 29.80$	PASS
155	5775	10.08	9.11	12.63	18.333	30	PASS

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EIRP

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)		RESULT
36	5180	13.99	0.490	14.480	23.01	or $10+10\log(B)=$ 22.11	PASS
44	5220	13.92	0.490	14.410	23.01	or $10+10\log(B)=$ 22.15	PASS
48	5240	13.91	0.490	14.400	23.01	or $10+10\log(B)=$ 22.11	PASS
52	5260	13.85	0.310	14.160	30	or $17+10\log(B)=$ 29.10	PASS
60	5300	13.80	0.310	14.110	30	or $17+10\log(B)=$ 29.13	PASS
64	5320	13.82	0.310	14.130	30	or $17+10\log(B)=$ 29.14	PASS
100	5500	12.88	2.440	15.320	30	or $17+10\log(B)=$ 29.13	PASS
116	5580	12.85	2.440	15.290	30	or $17+10\log(B)=$ 29.13	PASS
140	5700	12.82	2.440	15.260	30	or $17+10\log(B)=$ 29.12	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)		RESULT
36	5180	16.83	3.455	20.281	23.01	or $10+10\log(B)=$ 21.96	PASS
44	5220	16.93	3.455	20.381	23.01	or $10+10\log(B)=$ 22.44	PASS
48	5240	16.88	3.455	20.331	23.01	or $10+10\log(B)=$ 22.41	PASS
52	5260	16.84	3.330	20.170	30	or $17+10\log(B)=$ 22.32	PASS
60	5300	16.85	3.330	20.177	30	or $17+10\log(B)=$ 21.95	PASS
64	5320	16.82	3.330	20.152	30	or $17+10\log(B)=$ 22.42	PASS
100	5500	15.72	5.511	21.231	30	or $17+10\log(B)=$ 22.42	PASS
116	5580	15.63	5.511	21.140	30	or $17+10\log(B)=$ 22.45	PASS
140	5700	15.68	5.511	21.191	30	or $17+10\log(B)=$ 22.40	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)		RESULT
38	5190	16.86	3.455	20.315	23.01	or $10+10\log(B)=$ 25.34	PASS
46	5230	16.90	3.455	20.356	23.01	or $10+10\log(B)=$ 25.54	PASS
54	5270	16.87	3.330	20.195	30	or $17+10\log(B)=$ 25.28	PASS
62	5310	16.96	3.330	20.295	30	or $17+10\log(B)=$ 25.49	PASS
102	5510	14.72	5.511	20.229	30	or $17+10\log(B)=$ 25.55	PASS
110	5550	14.91	5.511	20.421	30	or $17+10\log(B)=$ 25.55	PASS
134	5670	14.88	5.511	20.388	30	or $17+10\log(B)=$ 25.42	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)		RESULT
42	5210	15.59	3.455	19.049	23.01	or $10+10\log(B)=$ 28.57	PASS
58	5290	15.54	3.330	18.866	30	or $17+10\log(B)=$ 28.56	PASS
106	5530	13.87	5.511	19.386	30	or $17+10\log(B)=$ 28.59	PASS
122	5610	15.97	5.511	21.481	30	or $17+10\log(B)=$ 28.80	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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10.2 Measurement Procedure

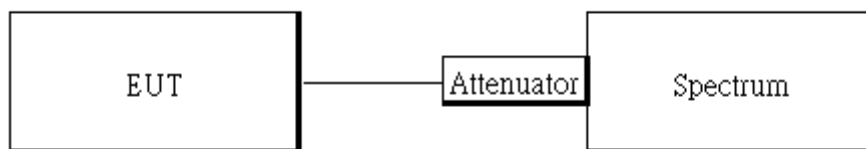
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW $\geq$ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.69	17	-16.31
5220	-1.81	17	-18.81
5240	0.81	17	-16.19
5260	-0.01	11	-11.01
5300	0.68	11	-10.32
5320	1.32	11	-9.68
5500	-1.12	11	-12.12
5580	0.53	11	-10.47
5700	-0.42	11	-11.42
5745	7.30	30	-22.70
5785	6.39	30	-23.61
5825	6.33	30	-23.67

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-1.34	17	-18.34
5220	-0.51	17	-17.51
5240	-1.04	17	-18.04
5260	-0.94	11	-11.94
5300	0.81	11	-10.19
5320	-0.66	11	-11.66
5500	3.03	11	-7.97
5580	3.33	11	-7.67
5700	0.45	11	-10.55
5745	8.72	30	-21.28
5785	9.04	30	-20.96
5825	8.49	30	-21.51

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POWER DENSITY 802.11n HT40 MODE			
Frequency	PPSD	Limit	Margin
5190	-5.06	17	-22.06
5230	-5.73	17	-22.73
5270	-5.23	11	-16.23
5310	-4.87	11	-15.87
5510	-6.35	11	-17.35
5550	-3.44	11	-14.44
5670	-3.67	11	-14.67
5755	5.80	30	-24.20
5795	5.58	30	-24.42

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.41	17	-27.41
5290	-11.32	11	-22.32
5530	-13.20	11	-24.20
5610	-10.34	11	-21.34
5775	1.27	30	-28.73

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EIRP Power Density

Frequency (MHz)	PPSD (dBm)	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5180	0.69	0.49	1.18	10	-9.31
5220	-1.81	0.49	-1.32	10	-11.81
5240	0.81	0.49	1.30	10	-9.19

Frequency (MHz)	PPSD (dBm)	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5180	-1.34	3.46	2.12	10	-11.34
5220	-0.51	3.46	2.95	10	-10.51
5240	-1.04	3.46	2.42	10	-11.04

Frequency	PPSD	Antenna	EIRP spectral	Limit	Margin
5180	-5.06	3.46	-1.61	10	-15.06
5220	-5.73	3.46	-2.28	10	-15.73

Frequency (MHz)	PPSD (dBm)	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5210	-10.41	3.46	-6.96	10	-20.41

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802.11a 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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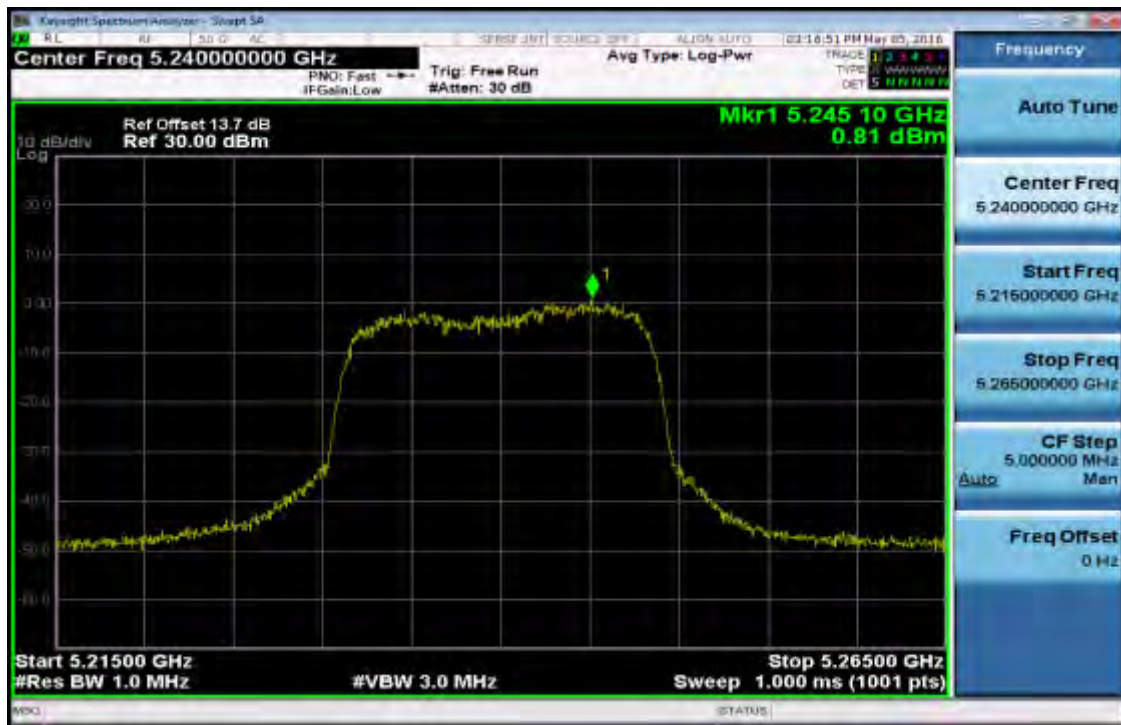
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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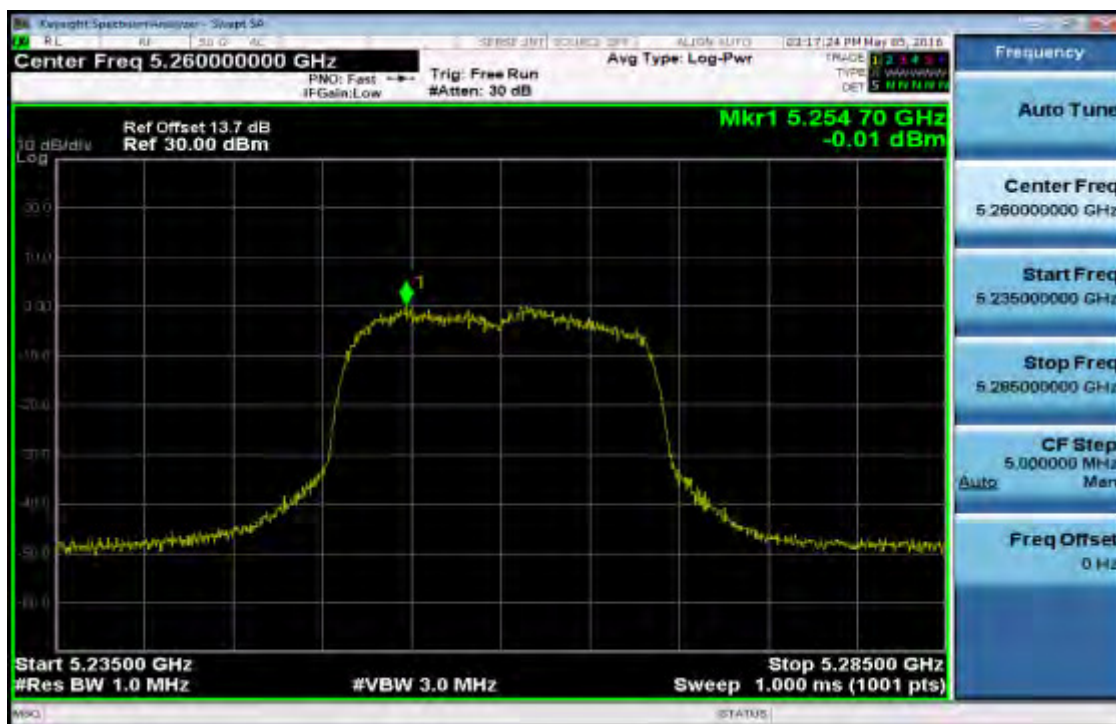
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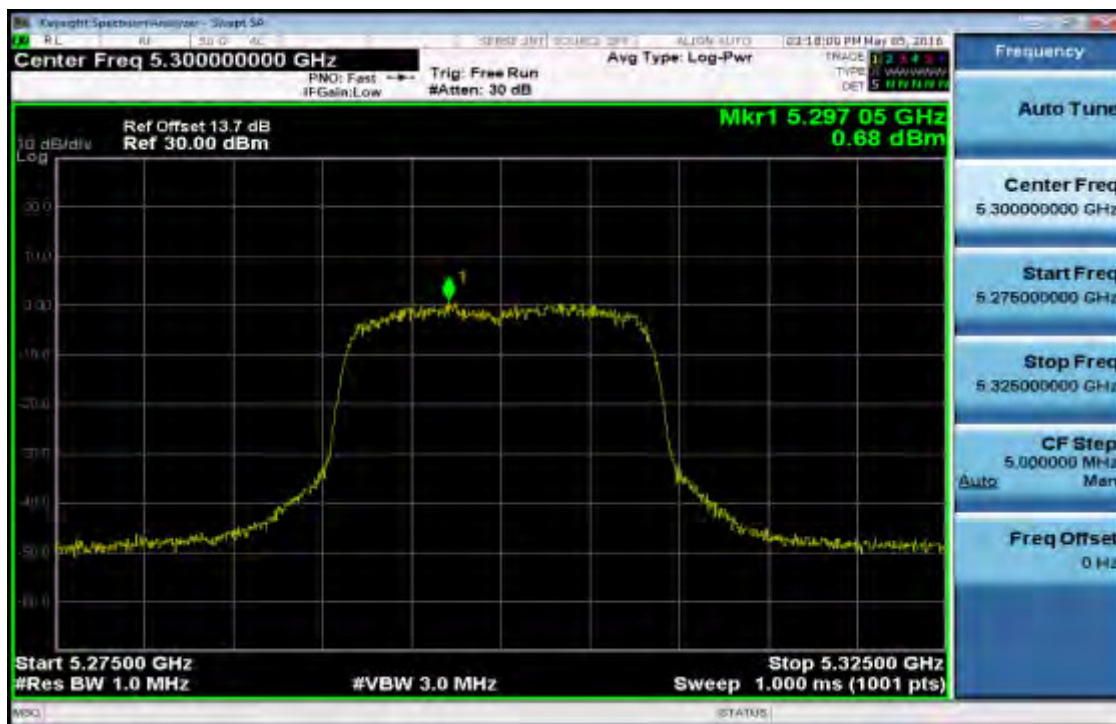
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802.11a 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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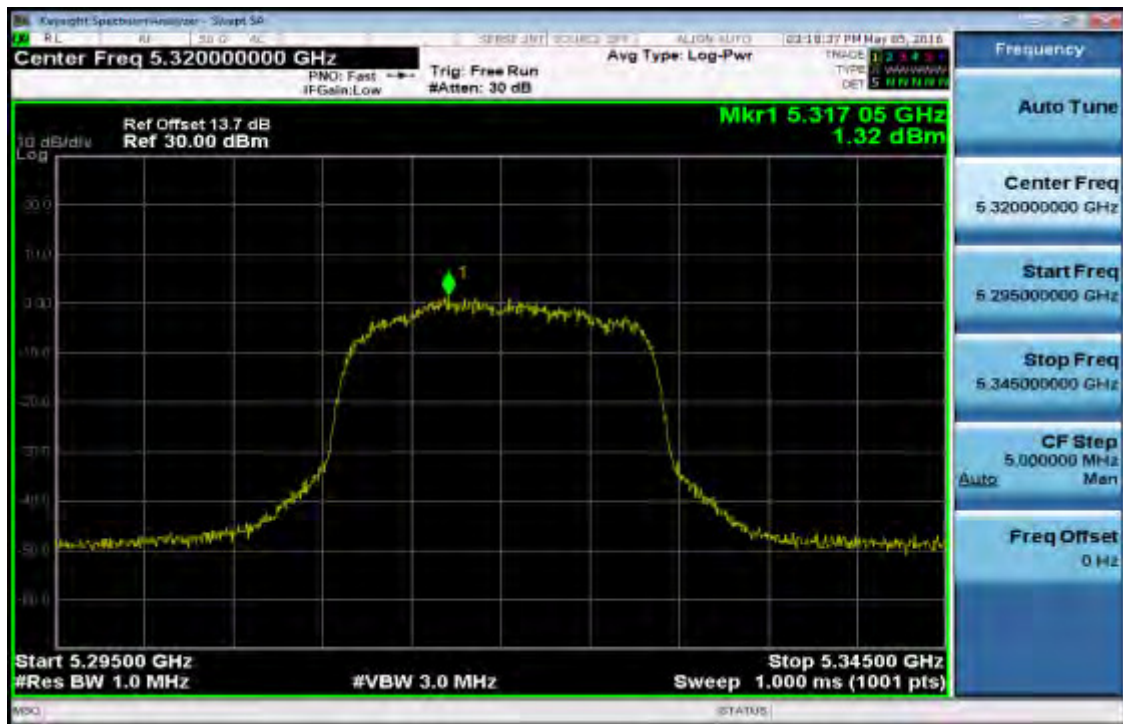
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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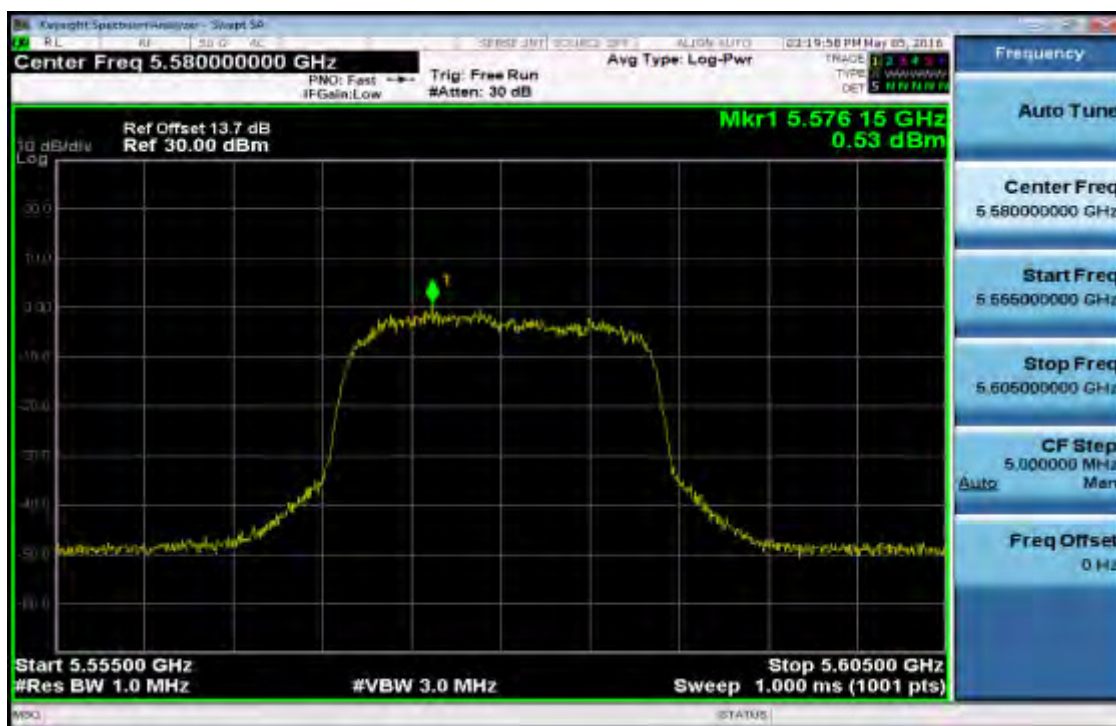
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802.11a 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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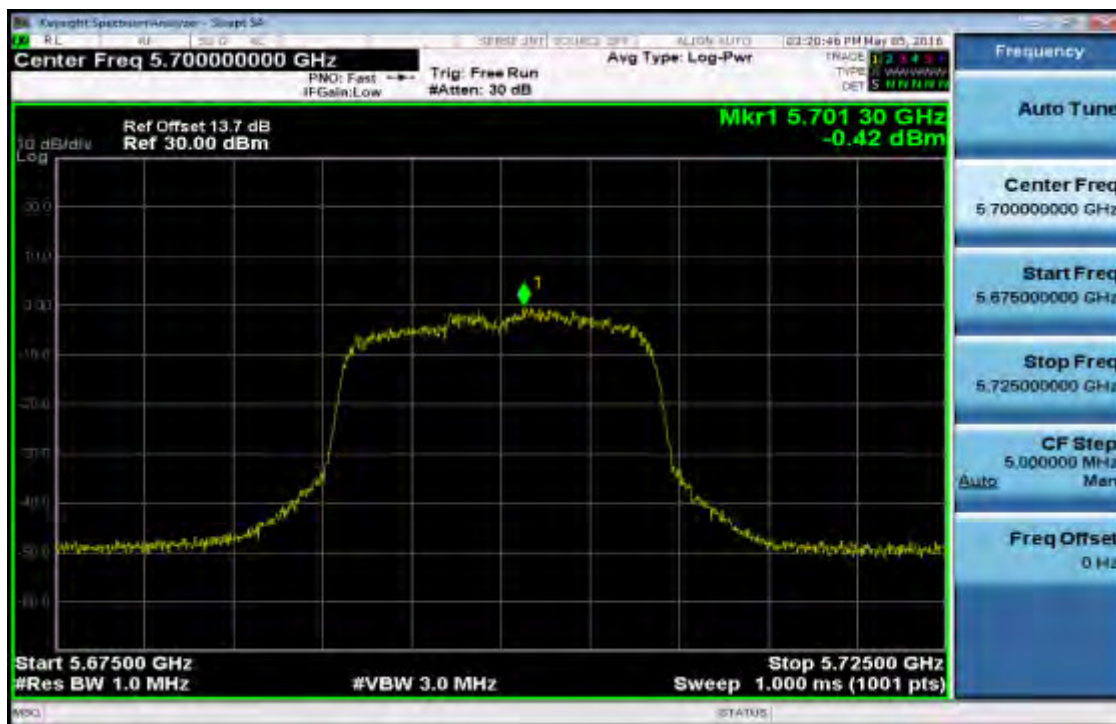
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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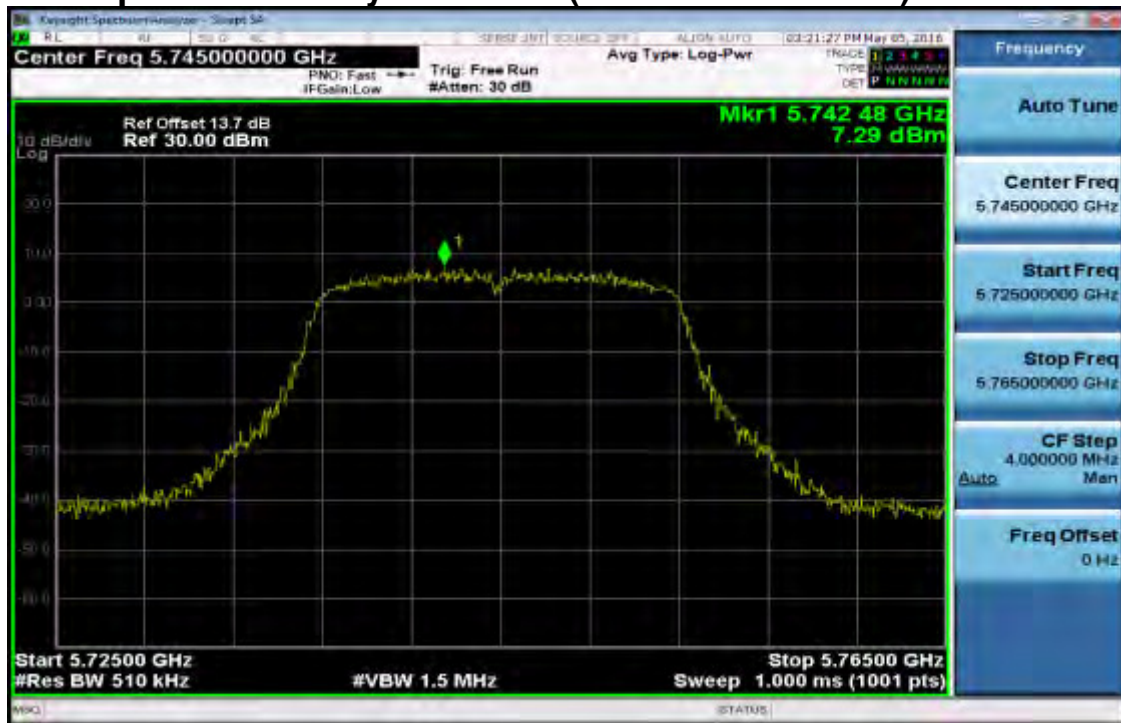
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802.11a 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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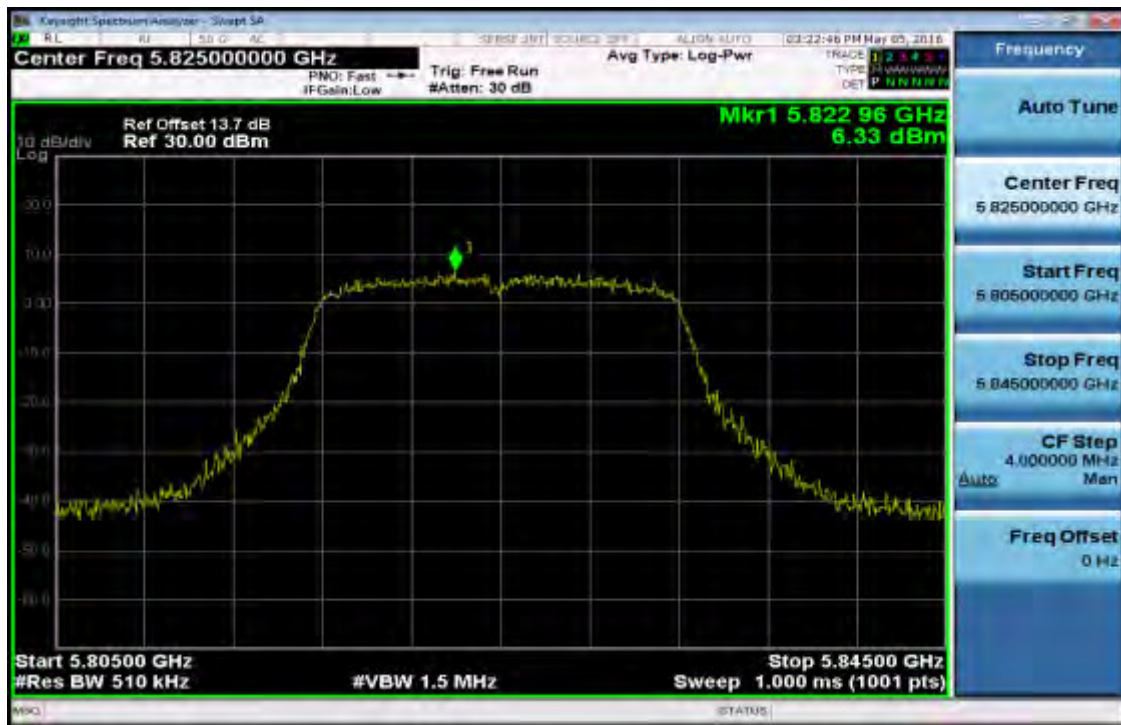
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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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802.11n HT20, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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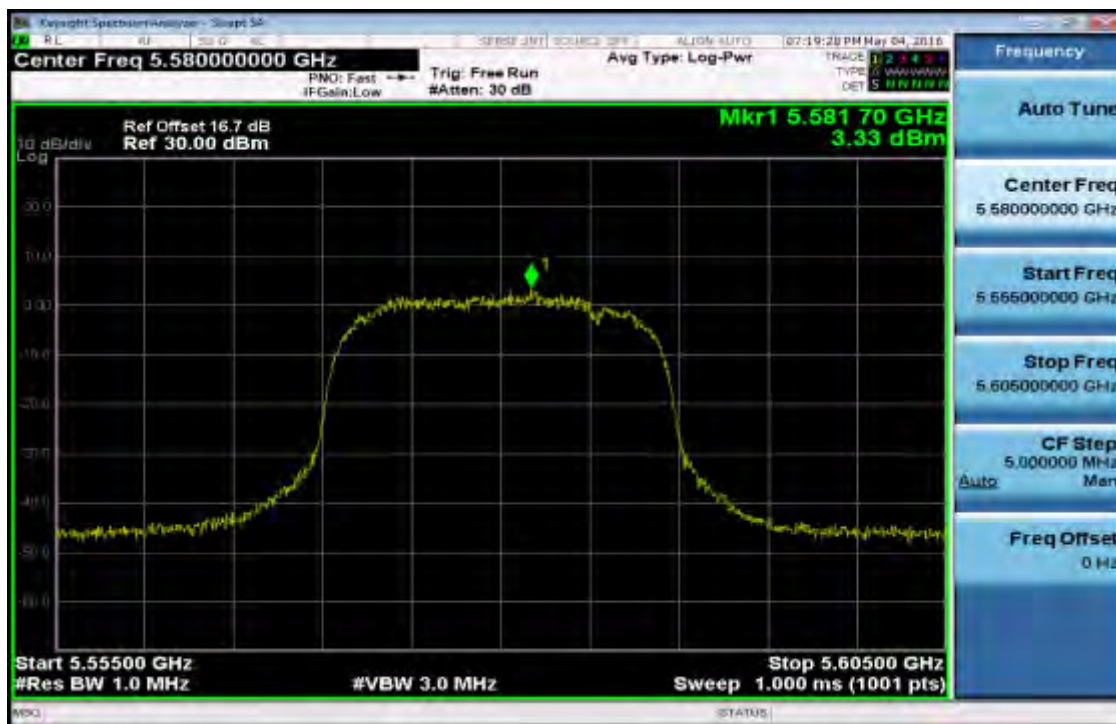
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802.11n HT20, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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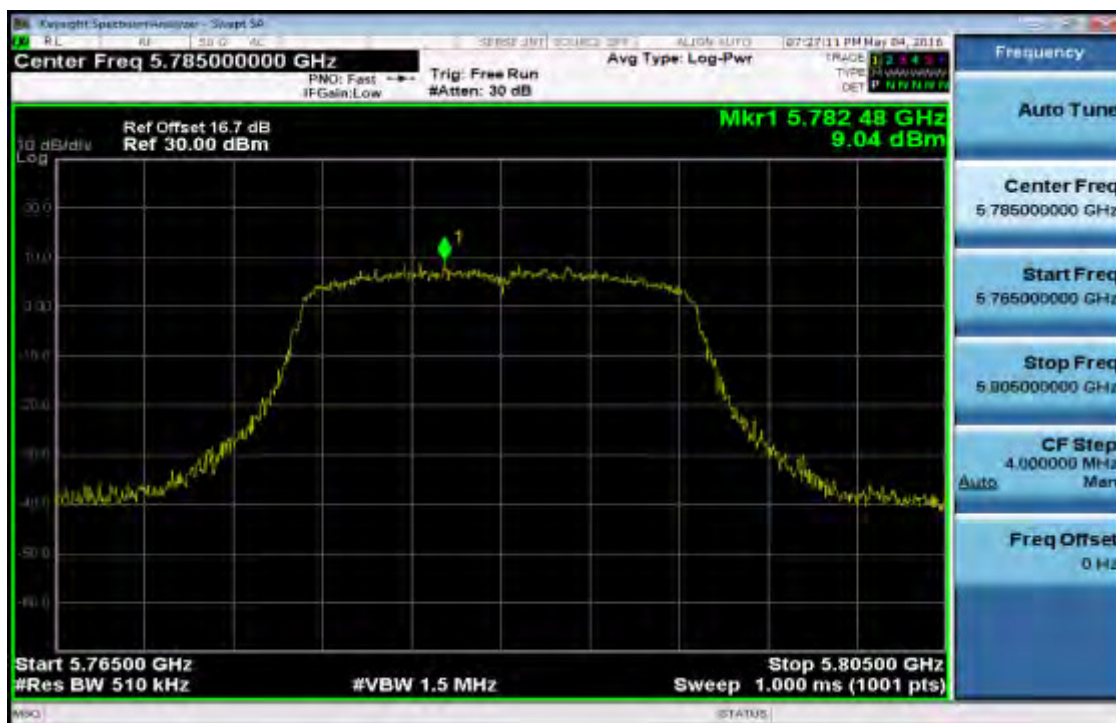
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802.11n HT20, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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802.11n HT40, 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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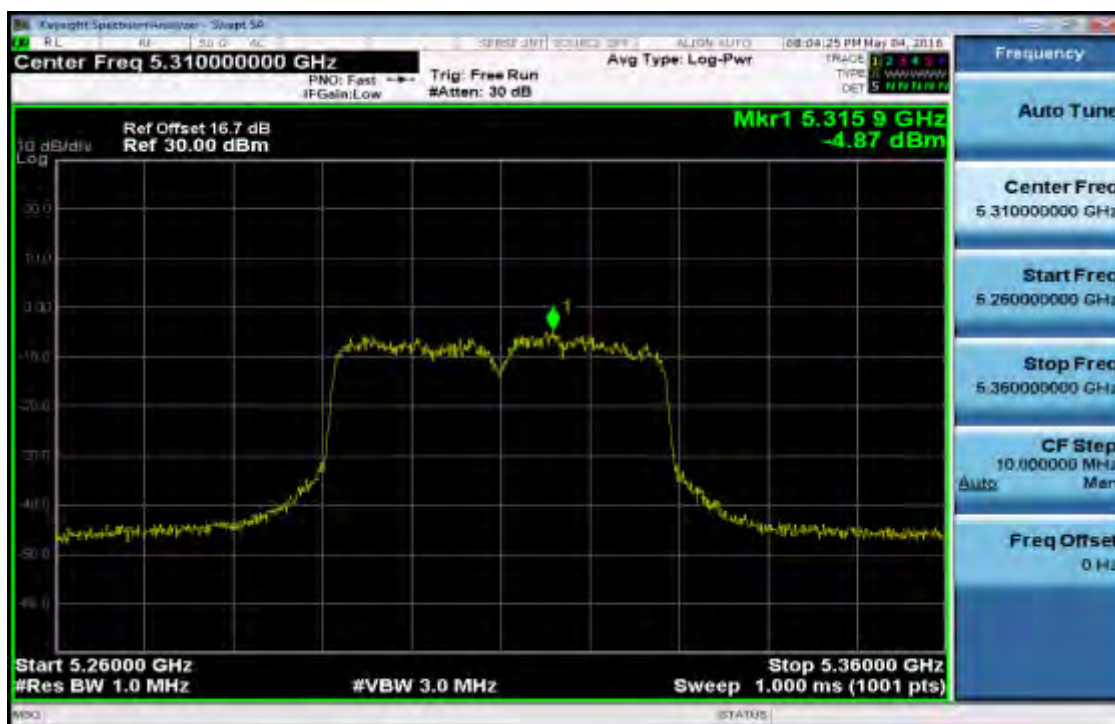
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802.11n HT40, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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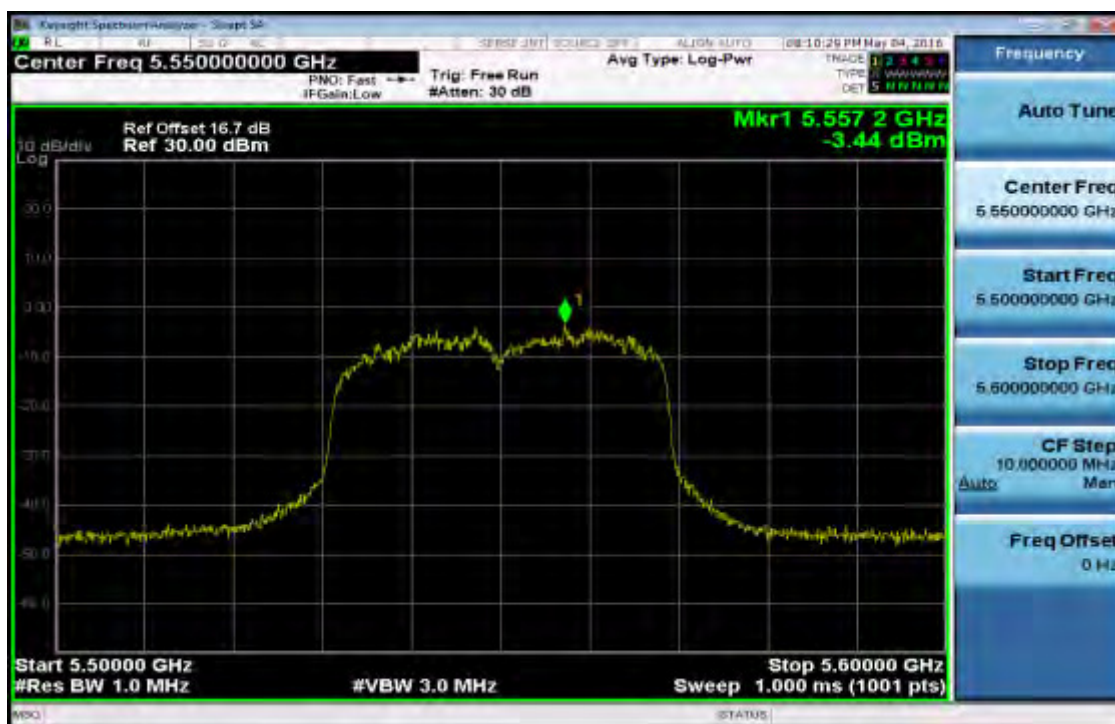
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802.11n HT40, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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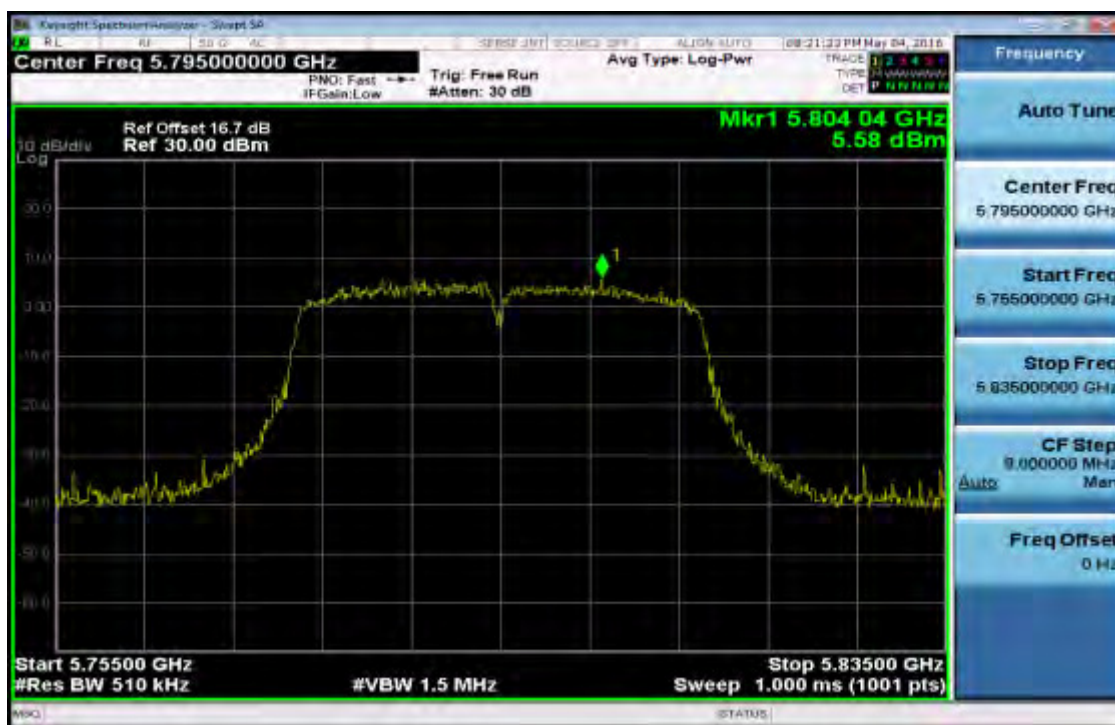
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802.11n HT40, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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802.11ac VHT80, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)



802.11ac VHT80, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)



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802.11ac VHT80, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



802.11ac VHT80, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH High 5610 MHz)



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802.11ac VHT80, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

APPLICABLE TO		LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01		FIELD STRENGTH AT 3m	
		PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO		EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	RSS-247 §6.2.1 (2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)	RSS-247 §6.2.2 (2)		
15.407(b)(3)	RSS-247 §6.2.3 (2)		
15.407(b)(4)	RSS-247 §6.2.4 (4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI7	100760	05/11/2015	05/10/2016
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/28/2016	01/27/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/10/2015	08/09/2016
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/02/2015	07/01/2016
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017

Note: N.C.R refers to Not Calibrated Required.

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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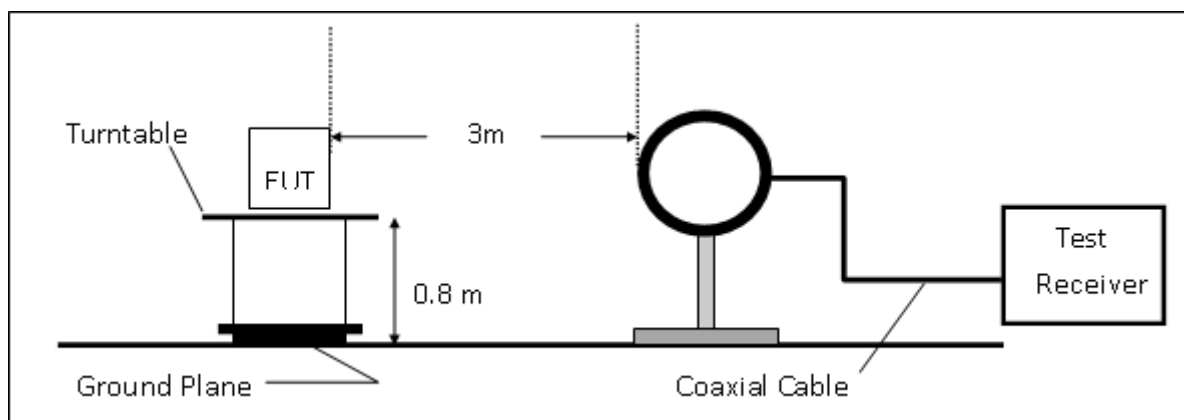
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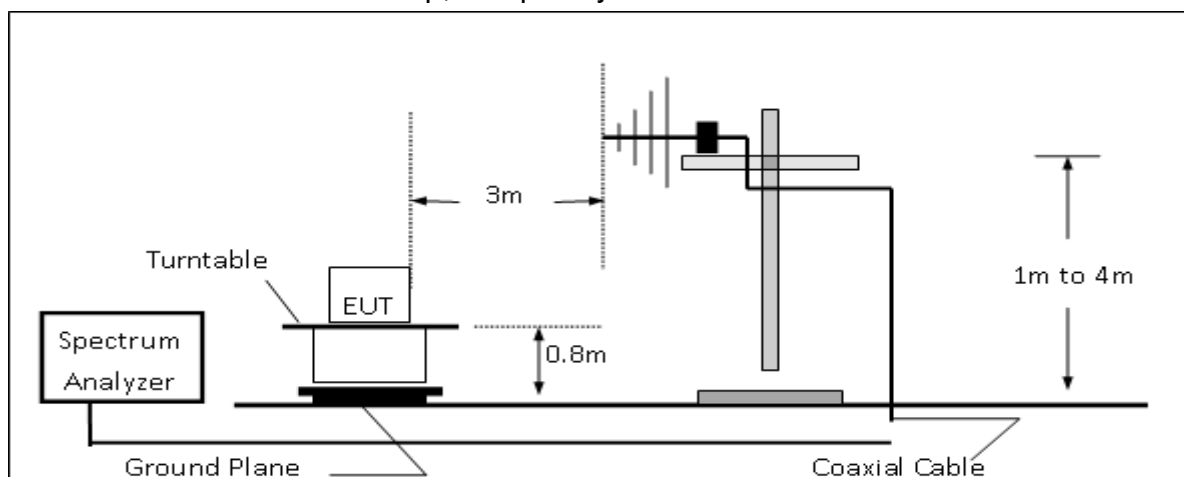
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11.3 Test SET-UP

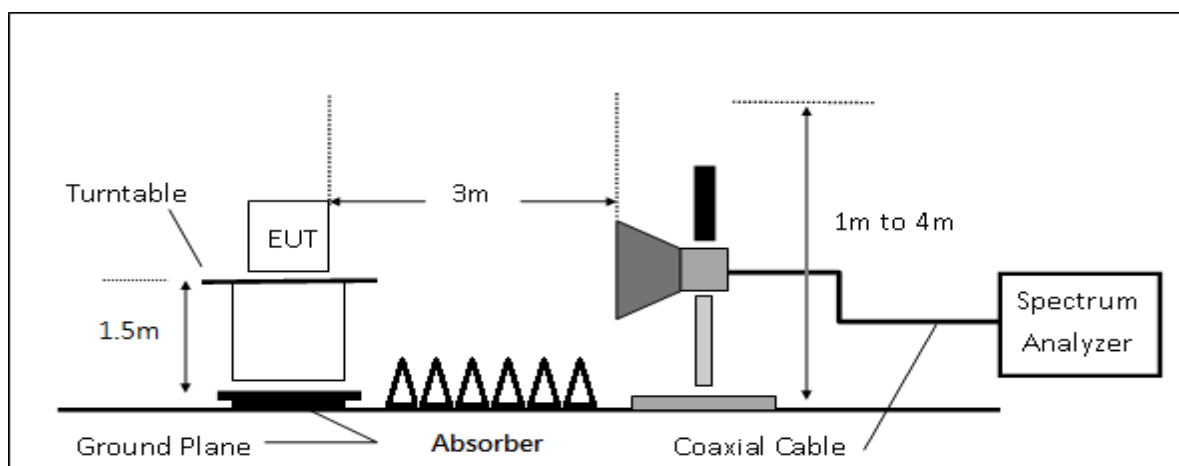
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

Note: WPC wireless charging functions are implemented in field strength of spurious radiation measurement.

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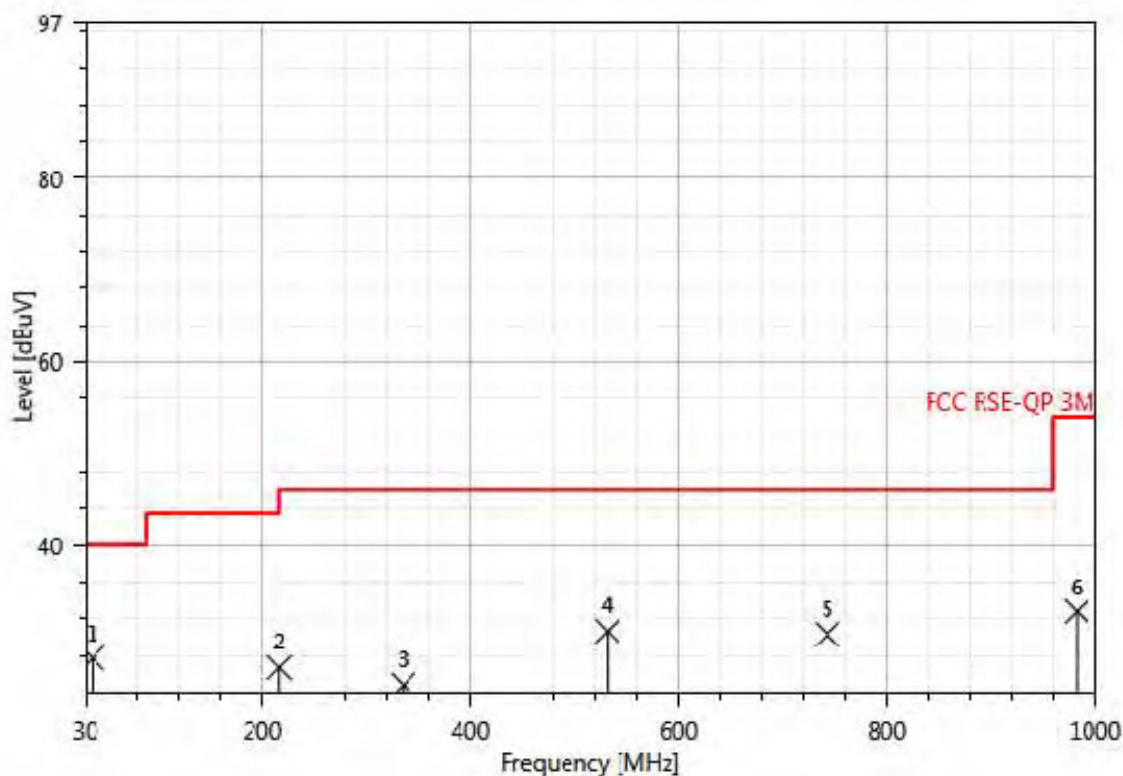
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	05/04/2016 11:17:01
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
36.79	S	Peak	27.70	36.54	-8.84	40.00	-12.30
216.24	S	Peak	26.69	36.12	-9.43	46.00	-19.31
335.55	S	Peak	24.80	30.13	-5.32	46.00	-21.20
531.49	S	Peak	30.65	32.22	-1.57	46.00	-15.35
742.95	S	Peak	30.31	28.03	2.28	46.00	-15.69
982.54	S	Peak	32.79	26.76	6.02	54.00	-21.21

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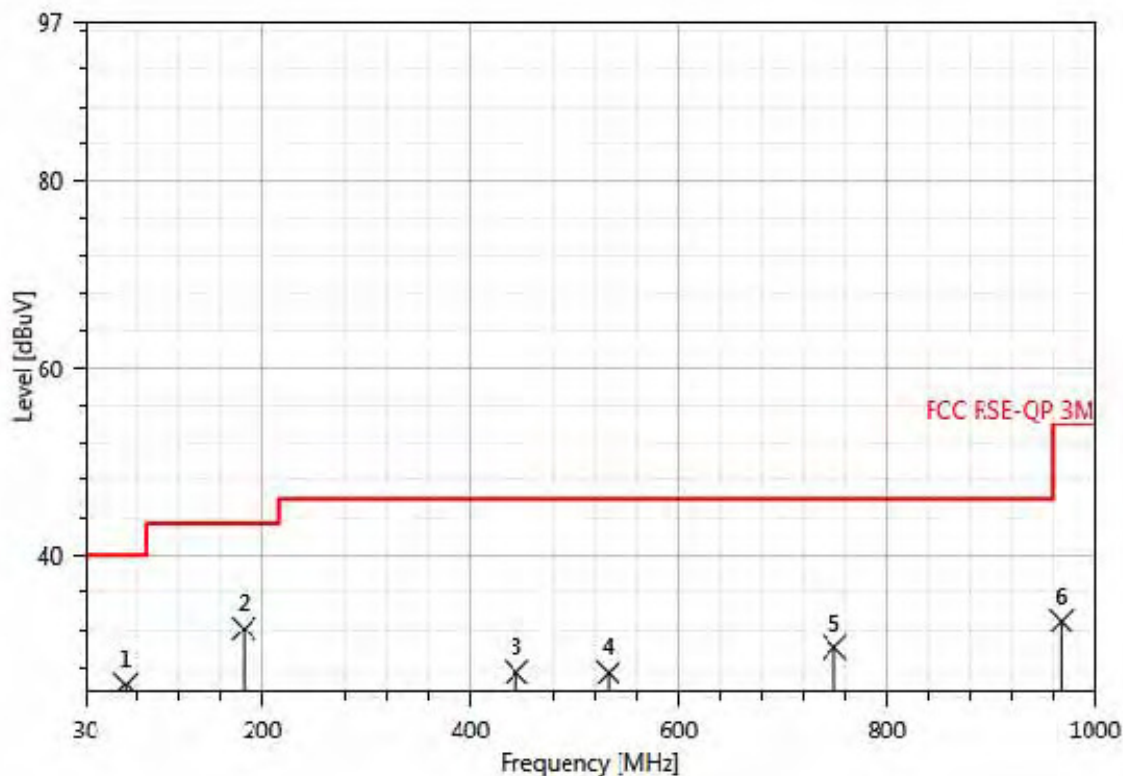
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Operation Mode : 802.11aB1
 Fundamental Frequency : 5220 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:02
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
68.80	S	Peak	26.21	36.19	-9.98	40.00	-13.79
182.29	S	Peak	32.14	40.95	-8.82	43.50	-11.36
444.19	S	Peak	27.53	30.75	-3.22	46.00	-18.47
532.46	S	Peak	27.48	29.15	-1.68	46.00	-18.52
749.74	S	Peak	30.12	27.40	2.72	46.00	-15.88
967.99	S	Peak	32.98	26.88	6.10	54.00	-21.02

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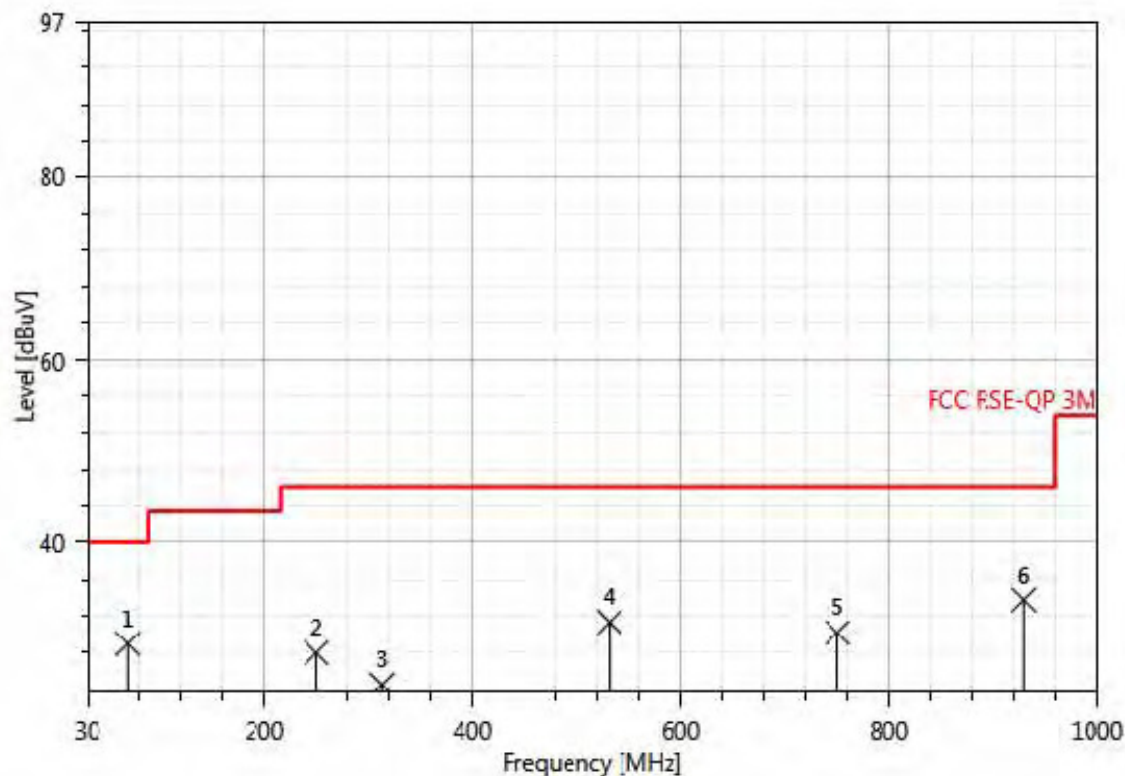
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802.11a 5250~5350 MHz

Operation Mode : 802.11aB2
Fundamental Frequency : 5300 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:03
Temp. / Humi. : 21 deg_C / 61 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
68.80	S	Peak	28.93	38.92	-9.98	40.00	-11.07
250.19	S	Peak	27.94	35.87	-7.93	46.00	-18.06
313.24	S	Peak	24.47	30.01	-5.55	46.00	-21.53
531.49	S	Peak	31.28	32.85	-1.57	46.00	-14.72
750.71	S	Peak	30.14	27.38	2.76	46.00	-15.86
929.19	S	Peak	33.68	28.43	5.25	46.00	-12.32

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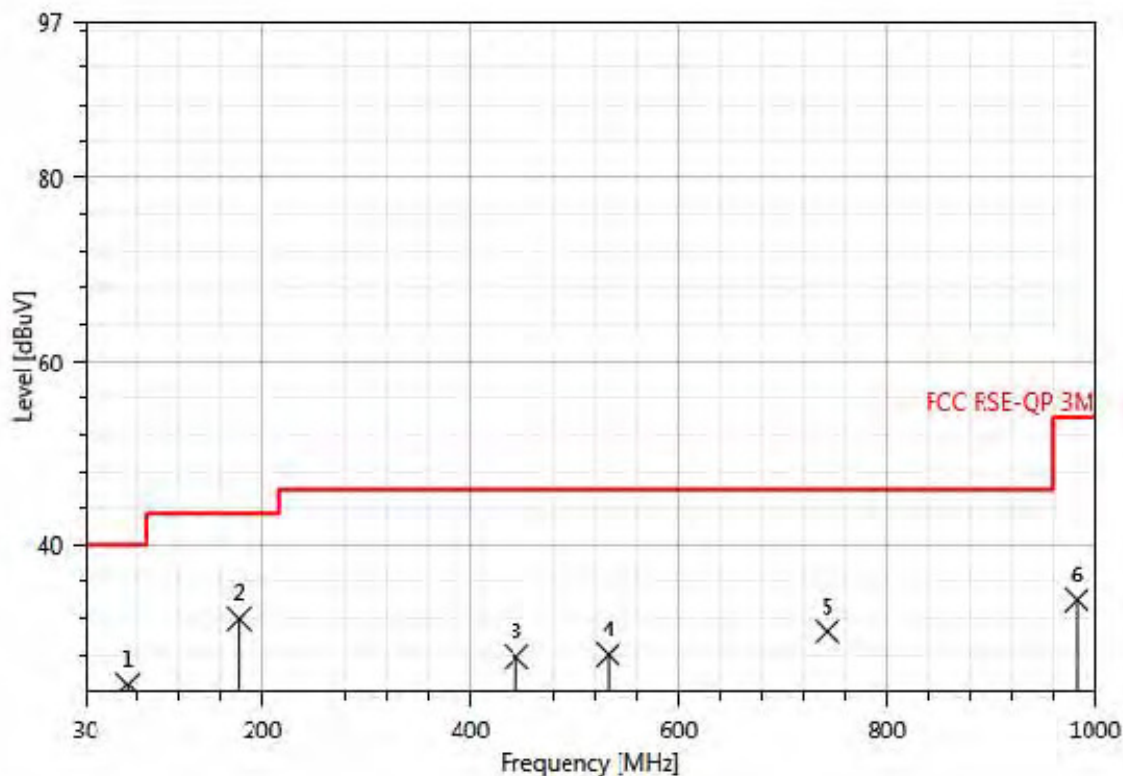
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Operation Mode : 802.11aB2
 Fundamental Frequency : 5300 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:04
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
70.74	S	Peak	24.84	35.26	-10.42	40.00	-15.16
177.44	S	Peak	32.01	40.47	-8.46	43.50	-11.49
444.19	S	Peak	27.82	31.04	-3.22	46.00	-18.18
532.46	S	Peak	28.06	29.74	-1.68	46.00	-17.94
742.95	S	Peak	30.59	28.32	2.28	46.00	-15.41
982.54	S	Peak	34.00	27.98	6.02	54.00	-20.00

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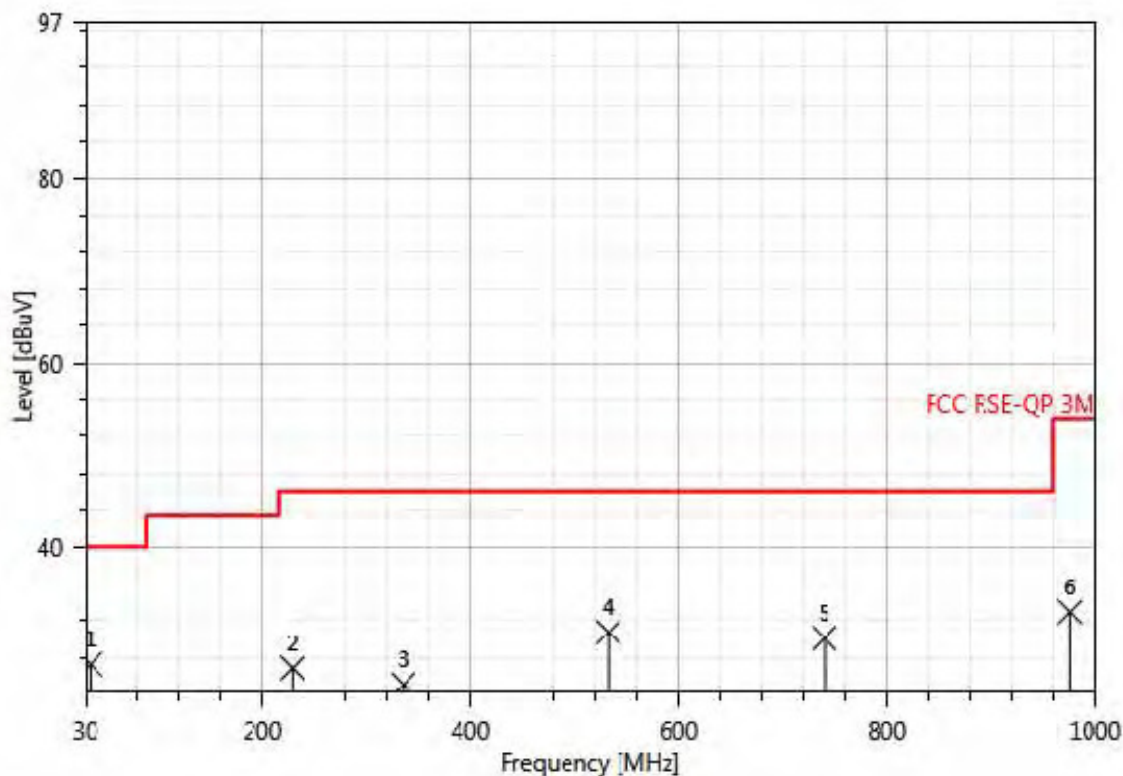
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802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	05/04/2016 11:17:05
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
34.85	S	Peak	27.32	36.32	-9.00	40.00	-12.68
228.85	S	Peak	26.91	35.91	-9.00	46.00	-19.09
335.55	S	Peak	25.10	30.42	-5.32	46.00	-20.90
532.46	S	Peak	30.77	32.45	-1.68	46.00	-15.23
740.04	S	Peak	30.14	28.11	2.03	46.00	-15.86
975.75	S	Peak	32.98	26.76	6.21	54.00	-21.02

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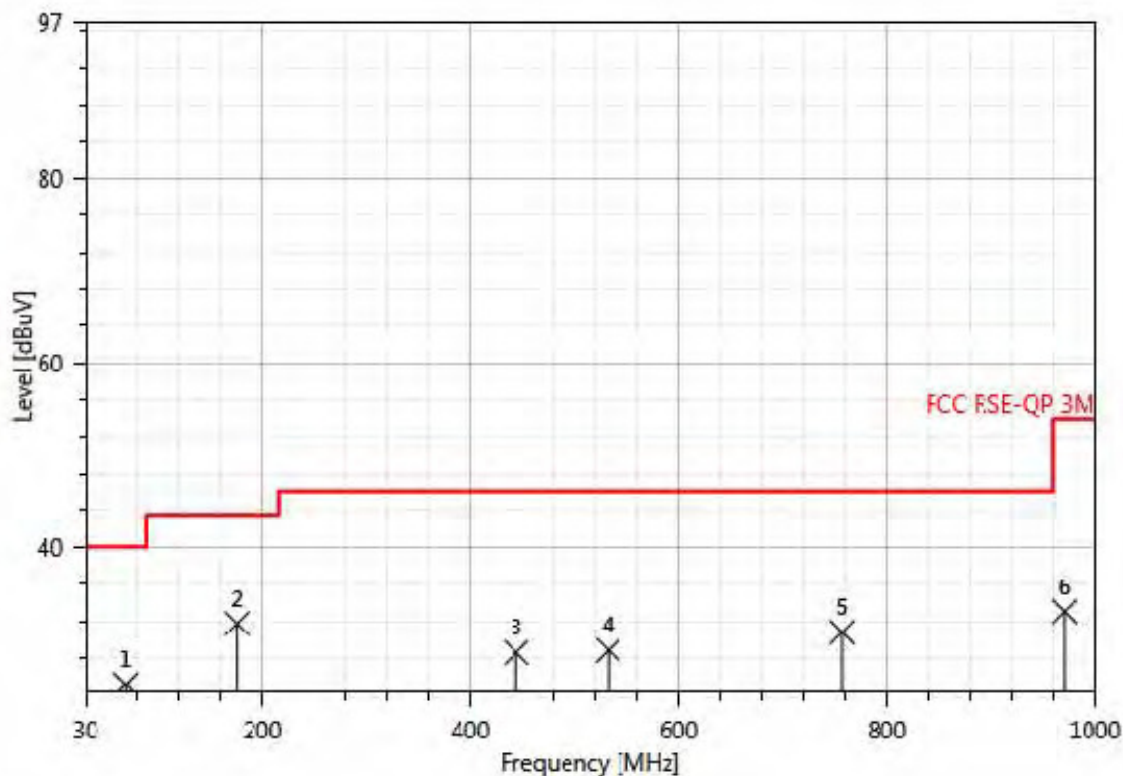
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Operation Mode : 802.11aB3
 Fundamental Frequency : 5580 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:06
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
68.80	S	Peak	25.12	35.10	-9.98	40.00	-14.88
175.50	S	Peak	31.72	39.93	-8.21	43.50	-11.78
444.19	S	Peak	28.57	31.79	-3.22	46.00	-17.43
532.46	S	Peak	28.82	30.50	-1.68	46.00	-17.18
757.50	S	Peak	30.77	27.76	3.01	46.00	-15.23
970.90	S	Peak	33.03	26.75	6.28	54.00	-20.97

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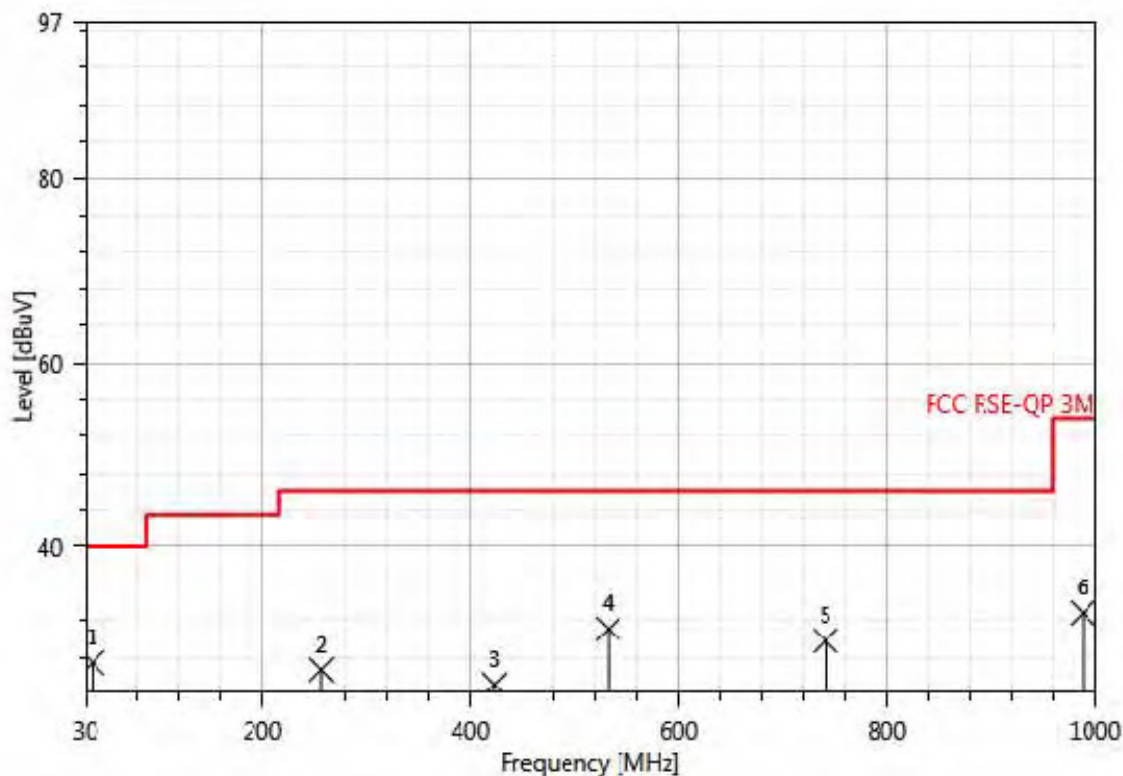
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	05/04/2016 11:17:07
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
36.79	S	Peak	27.43	36.26	-8.84	40.00	-12.57
256.98	S	Peak	26.68	34.09	-7.42	46.00	-19.32
422.85	S	Peak	25.05	28.22	-3.17	46.00	-20.95
532.46	S	Peak	31.09	32.77	-1.68	46.00	-14.91
741.01	S	Peak	29.82	27.66	2.16	46.00	-16.18
988.36	S	Peak	32.82	26.81	6.00	54.00	-21.18

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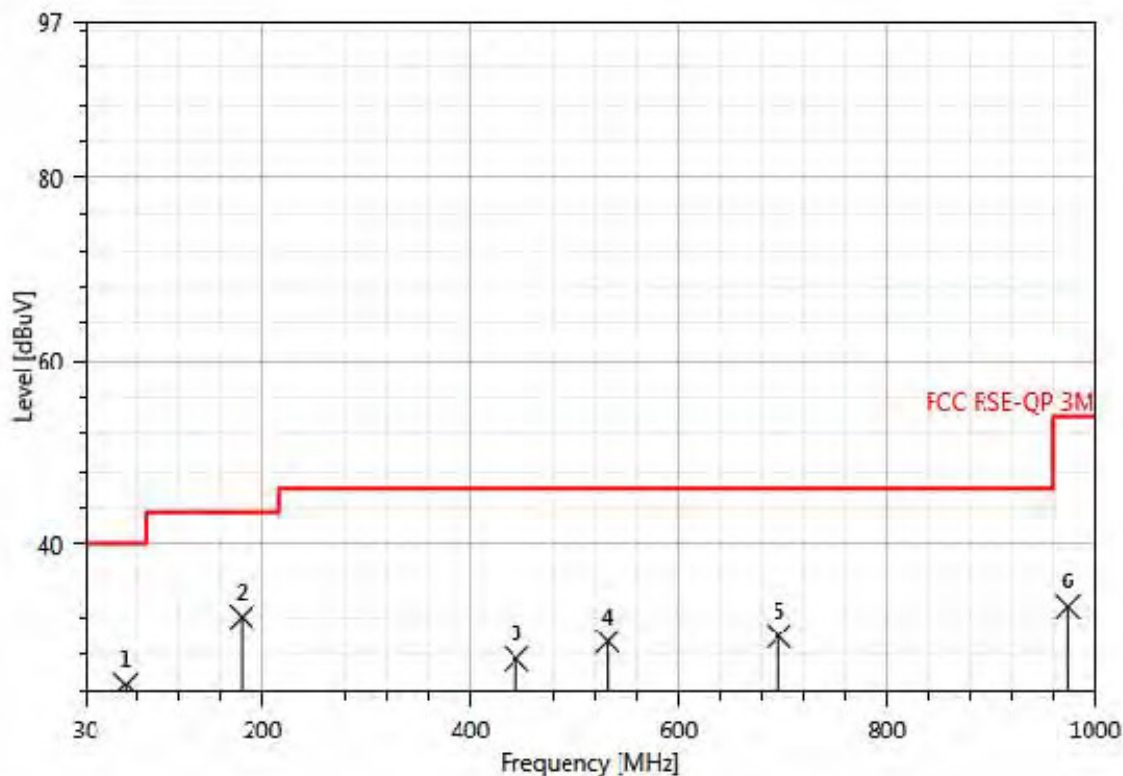
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5785 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:08
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
68.80	S	Peak	24.68	34.67	-9.98	40.00	-15.32
180.35	S	Peak	32.04	40.72	-8.68	43.50	-11.46
444.19	S	Peak	27.50	30.72	-3.22	46.00	-18.50
531.49	S	Peak	29.37	30.93	-1.57	46.00	-16.63
696.39	S	Peak	29.94	28.58	1.36	46.00	-16.06
973.81	S	Peak	33.15	27.00	6.16	54.00	-20.85

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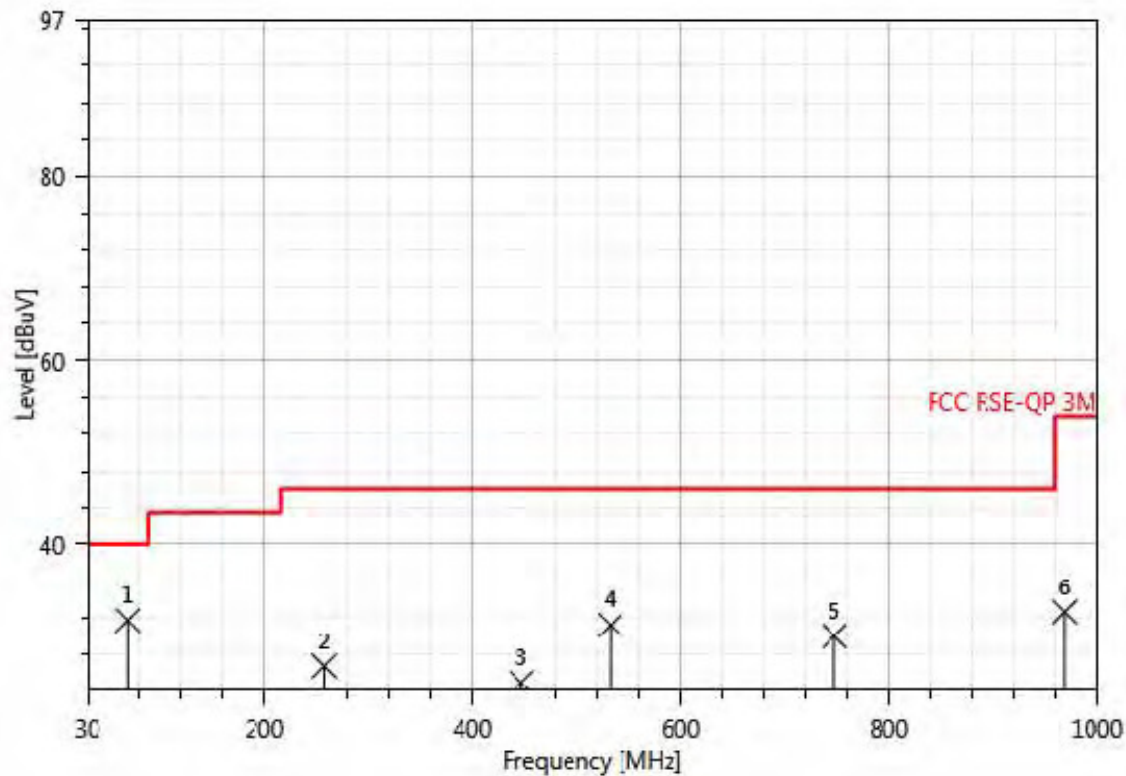
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802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	05/04/2016 11:17:09
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
68.80	S	Peak	31.77	41.76	-9.98	40.00	-8.23
257.95	S	Peak	26.83	34.20	-7.38	46.00	-19.17
447.10	S	Peak	25.01	27.96	-2.94	46.00	-20.99
532.46	S	Peak	31.25	32.93	-1.68	46.00	-14.75
747.80	S	Peak	30.06	27.56	2.50	46.00	-15.94
968.96	S	Peak	32.69	26.47	6.21	54.00	-21.31

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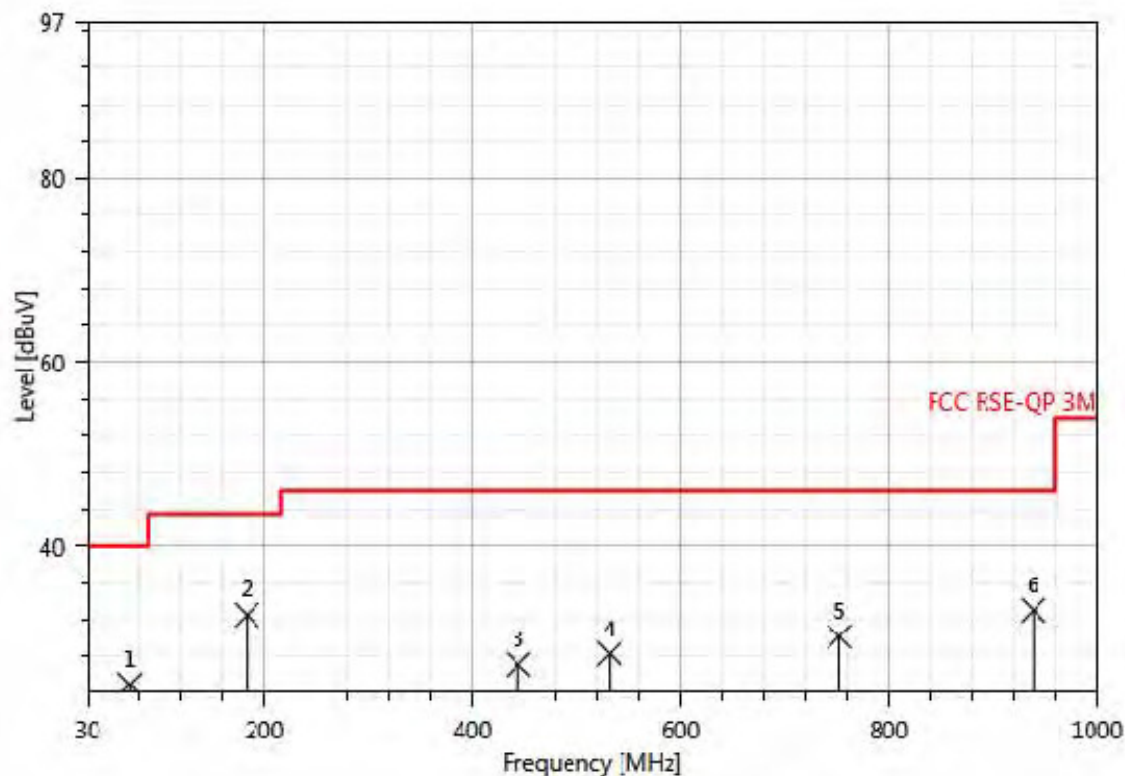
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Operation Mode : 802.11ac80B1
 Fundamental Frequency : 5210 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:10
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
70.74	S	Peak	24.98	35.39	-10.42	40.00	-15.02
183.26	S	Peak	32.53	41.43	-8.90	43.50	-10.97
444.19	S	Peak	27.17	30.39	-3.22	46.00	-18.83
531.49	S	Peak	28.32	29.89	-1.57	46.00	-17.68
752.65	S	Peak	30.18	27.52	2.66	46.00	-15.82
938.89	S	Peak	33.04	27.74	5.30	46.00	-12.96

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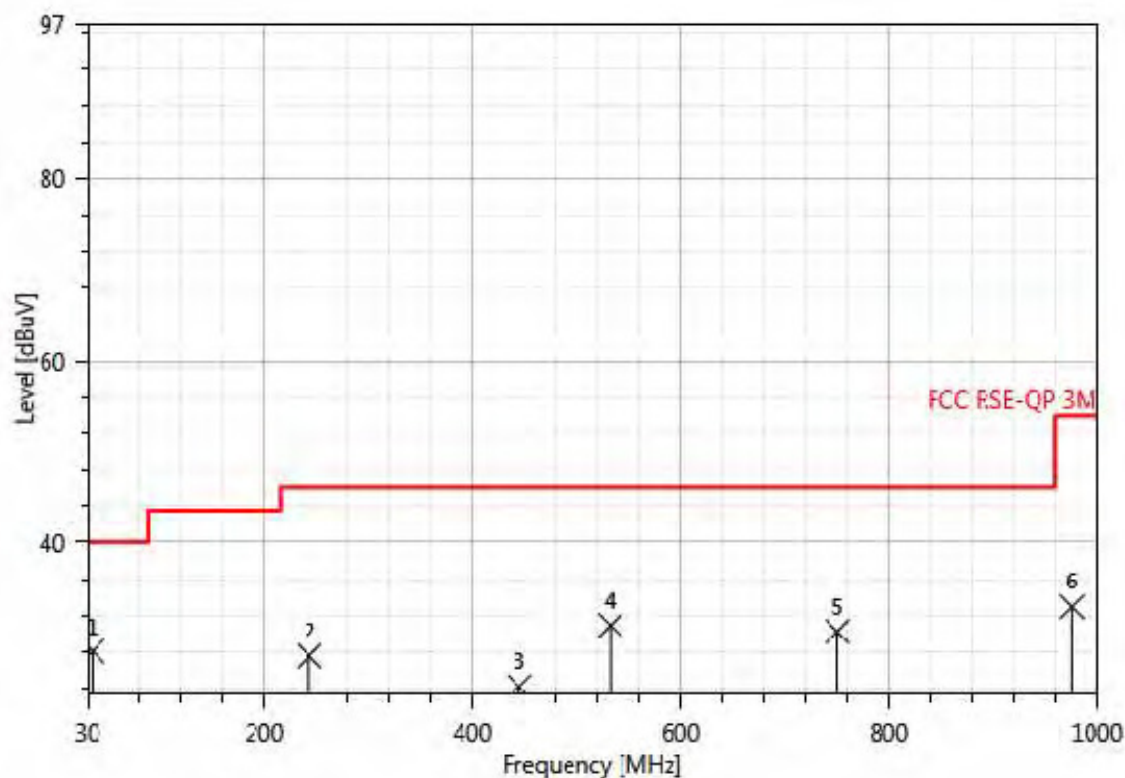
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802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	05/04/2016 11:17:11
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
34.85	S	Peak	28.05	37.05	-9.00	40.00	-11.95
243.40	S	Peak	27.53	35.56	-8.03	46.00	-18.47
445.16	S	Peak	24.19	27.28	-3.09	46.00	-21.81
532.46	S	Peak	30.91	32.59	-1.68	46.00	-15.09
750.71	S	Peak	30.23	27.48	2.76	46.00	-15.77
975.75	S	Peak	32.93	26.72	6.21	54.00	-21.07

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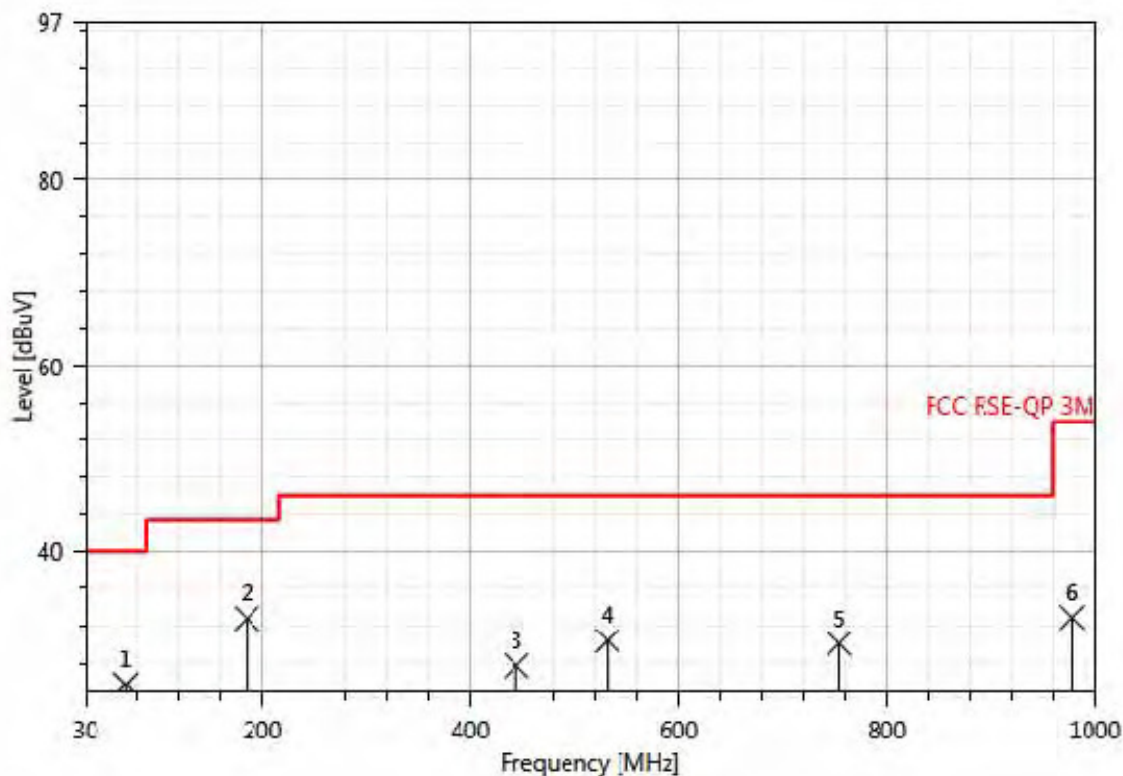
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Operation Mode : 802.11ac80B2 Test Date : 05/04/2016 11:17:12
Fundamental Frequency : 5290 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
68.80	S	Peak	25.71	35.69	-9.98	40.00	-14.29
185.20	S	Peak	32.81	41.86	-9.06	43.50	-10.69
444.19	S	Peak	27.75	30.97	-3.22	46.00	-18.25
531.49	S	Peak	30.41	31.98	-1.57	46.00	-15.59
754.59	S	Peak	30.10	27.40	2.70	46.00	-15.90
977.69	S	Peak	32.91	26.61	6.30	54.00	-21.09

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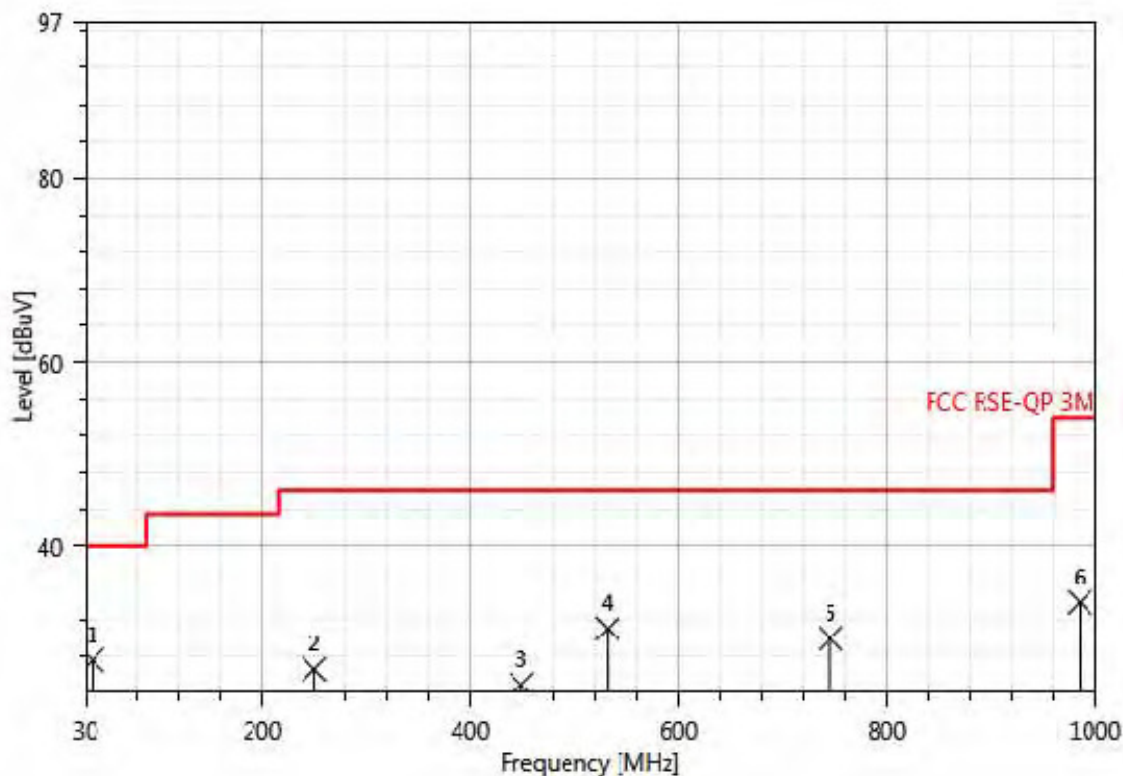
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802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	05/04/2016 11:17:13
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
36.79	S	Peak	27.63	36.46	-8.84	40.00	-12.37
250.19	S	Peak	26.65	34.58	-7.93	46.00	-19.35
449.04	S	Peak	24.96	27.92	-2.96	46.00	-21.04
531.49	S	Peak	31.05	32.62	-1.57	46.00	-14.95
745.86	S	Peak	29.97	27.67	2.30	46.00	-16.03
985.45	S	Peak	33.88	27.83	6.05	54.00	-20.12

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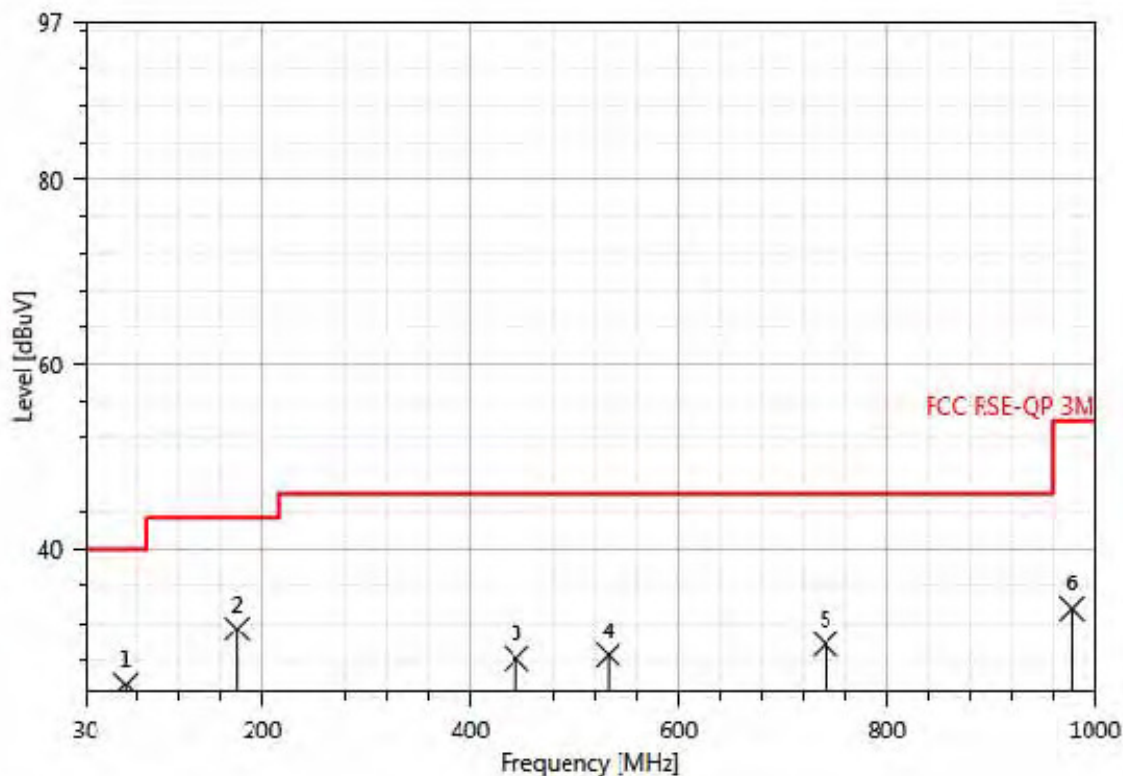
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Operation Mode : 802.11ac80B3
 Fundamental Frequency : 5530 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:14
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
68.80	S	Peak	25.44	35.42	-9.98	40.00	-14.56
175.50	S	Peak	31.42	39.63	-8.21	43.50	-12.08
444.19	S	Peak	28.24	31.46	-3.22	46.00	-17.76
532.46	S	Peak	28.61	30.29	-1.68	46.00	-17.39
741.01	S	Peak	29.77	27.61	2.16	46.00	-16.23
977.69	S	Peak	33.61	27.31	6.30	54.00	-20.39

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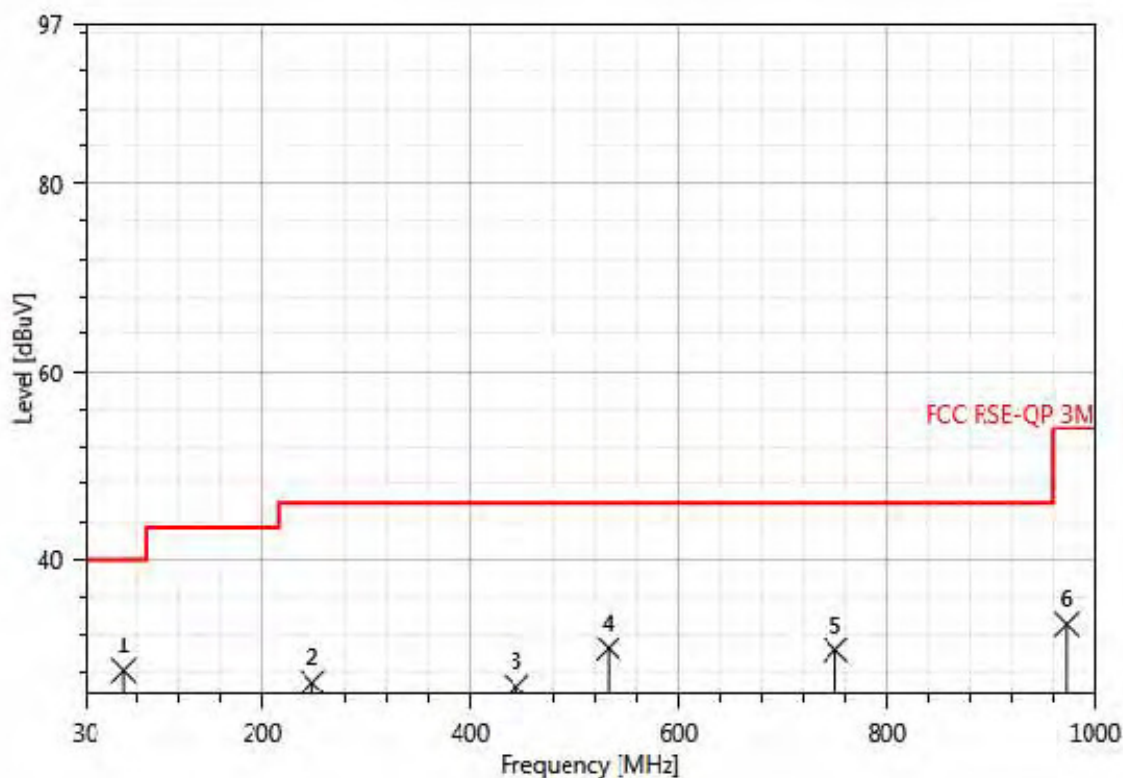
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802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	05/04/2016 11:17:15
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
66.86	S	Peak	28.24	37.82	-9.58	40.00	-11.76
248.25	S	Peak	26.96	34.95	-7.98	46.00	-19.04
444.19	S	Peak	26.51	29.73	-3.22	46.00	-19.49
532.46	S	Peak	30.53	32.21	-1.68	46.00	-15.47
750.71	S	Peak	30.36	27.61	2.76	46.00	-15.64
972.84	S	Peak	33.18	27.00	6.18	54.00	-20.82

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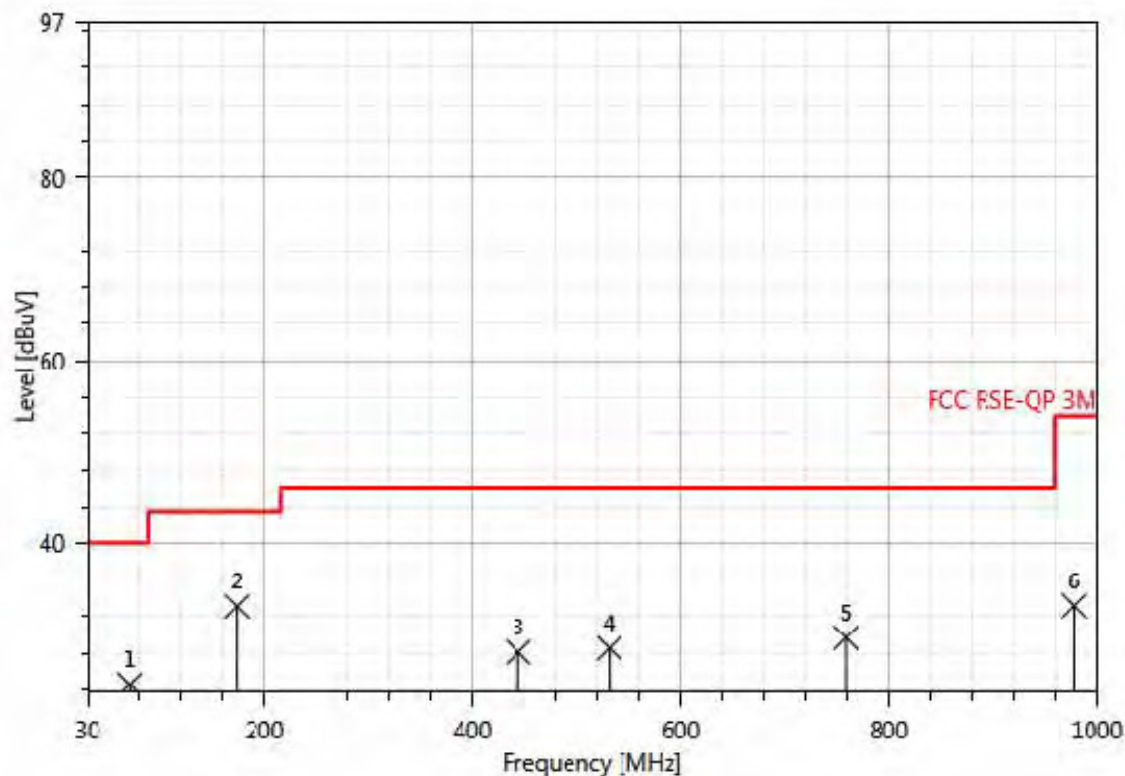
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Operation Mode : 802.11ac80B4
 Fundamental Frequency : 5775 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/04/2016 11:17:16
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
70.74	S	Peak	24.61	35.02	-10.42	40.00	-15.39
173.56	S	Peak	33.12	41.08	-7.96	43.50	-10.38
444.19	S	Peak	28.13	31.35	-3.22	46.00	-17.87
531.49	S	Peak	28.57	30.13	-1.57	46.00	-17.43
759.44	S	Peak	29.71	26.70	3.01	46.00	-16.29
977.69	S	Peak	33.18	26.87	6.30	54.00	-20.82

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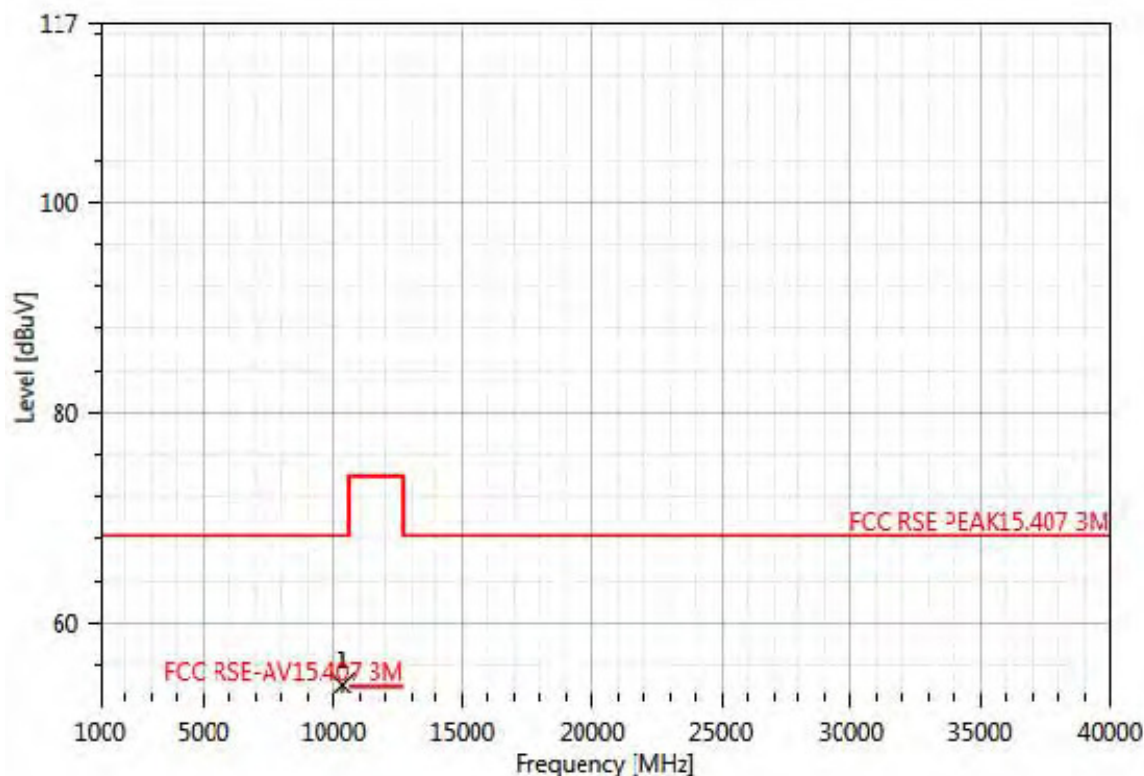
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	05/06/2016 09:59:55
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10360.00	H	Peak	54.11	35.81	18.29	68.30	-14.19

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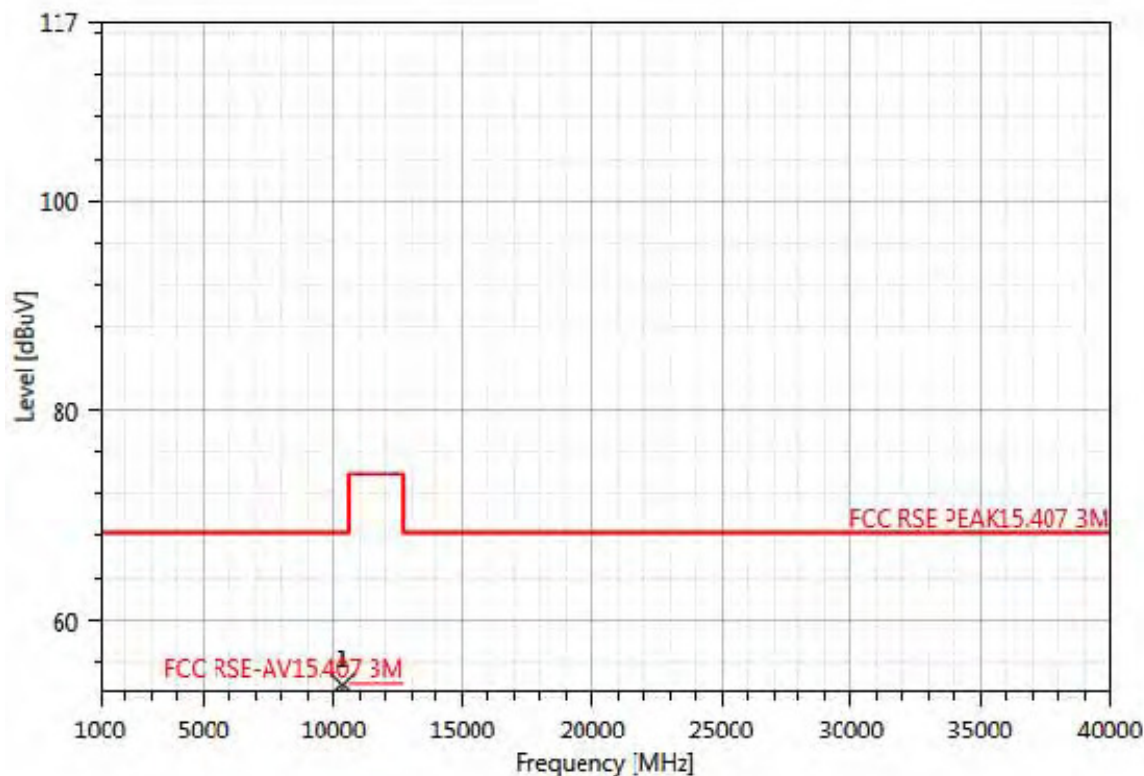
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Operation Mode : 802.11aB1
 Fundamental Frequency : 5180 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 10:00:18
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10360.00	H	Peak	53.92	35.63	18.29	68.30	-14.38

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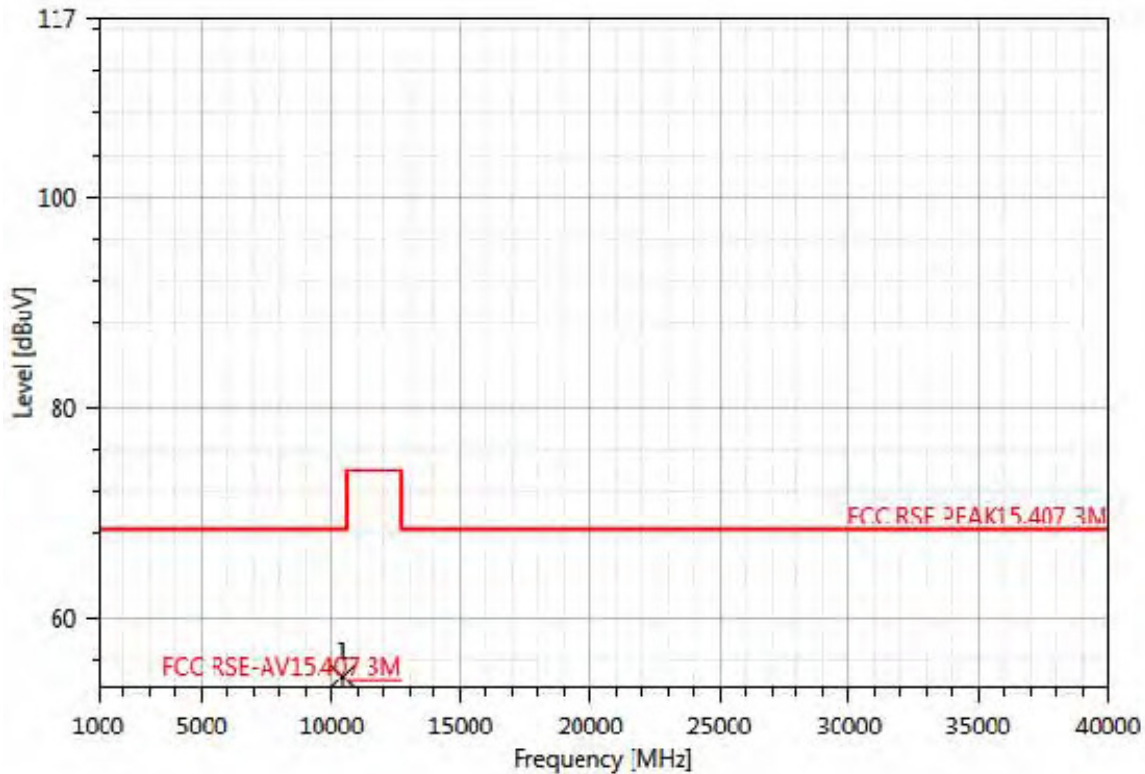
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:10:22
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10440.00	H	Peak	54.36	35.68	18.68	68.30	-13.94

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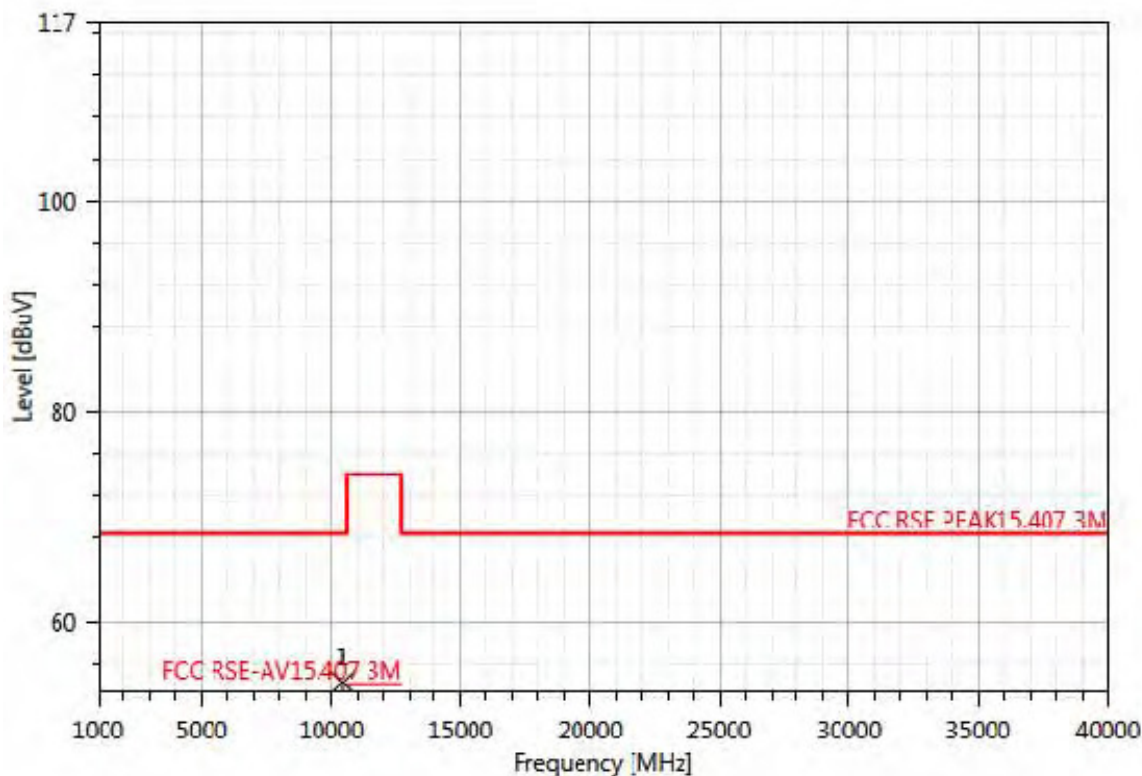
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Operation Mode : 802.11aB1
 Fundamental Frequency : 5220 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 10:10:44
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10440.00	H	Peak	54.18	35.49	18.68	68.30	-14.12

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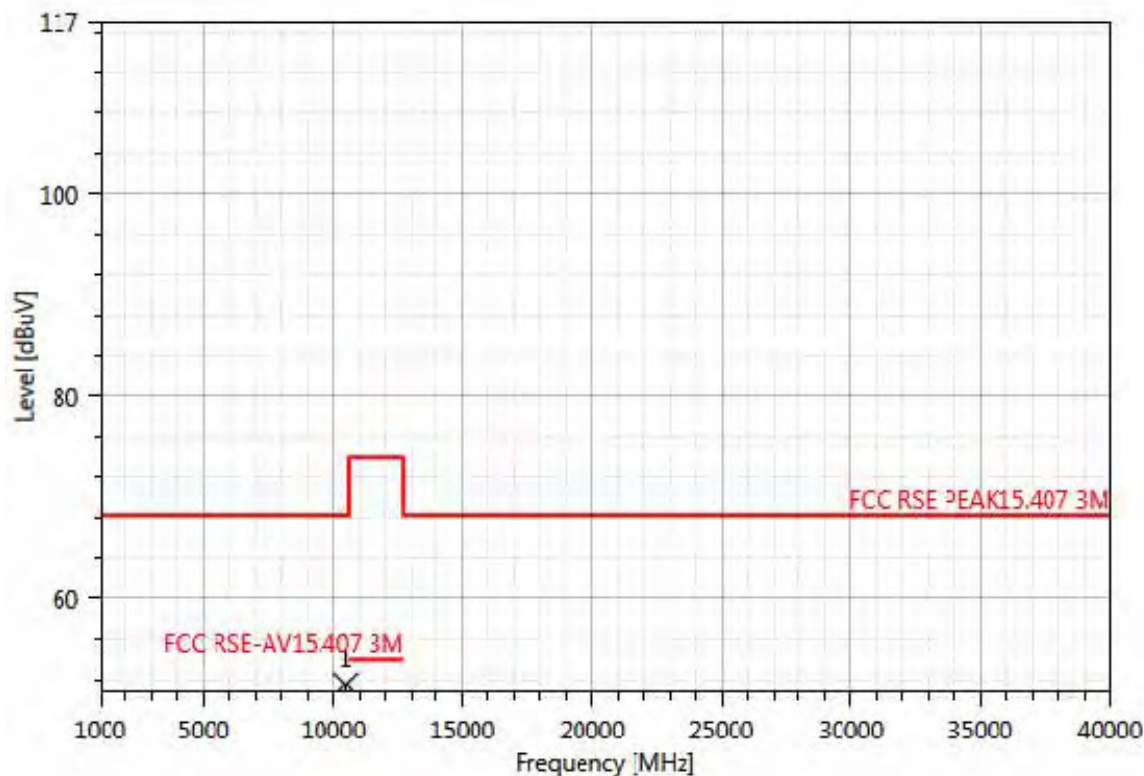
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:23:07
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10480.00	H	Peak	51.55	33.26	18.29	68.30	-16.75

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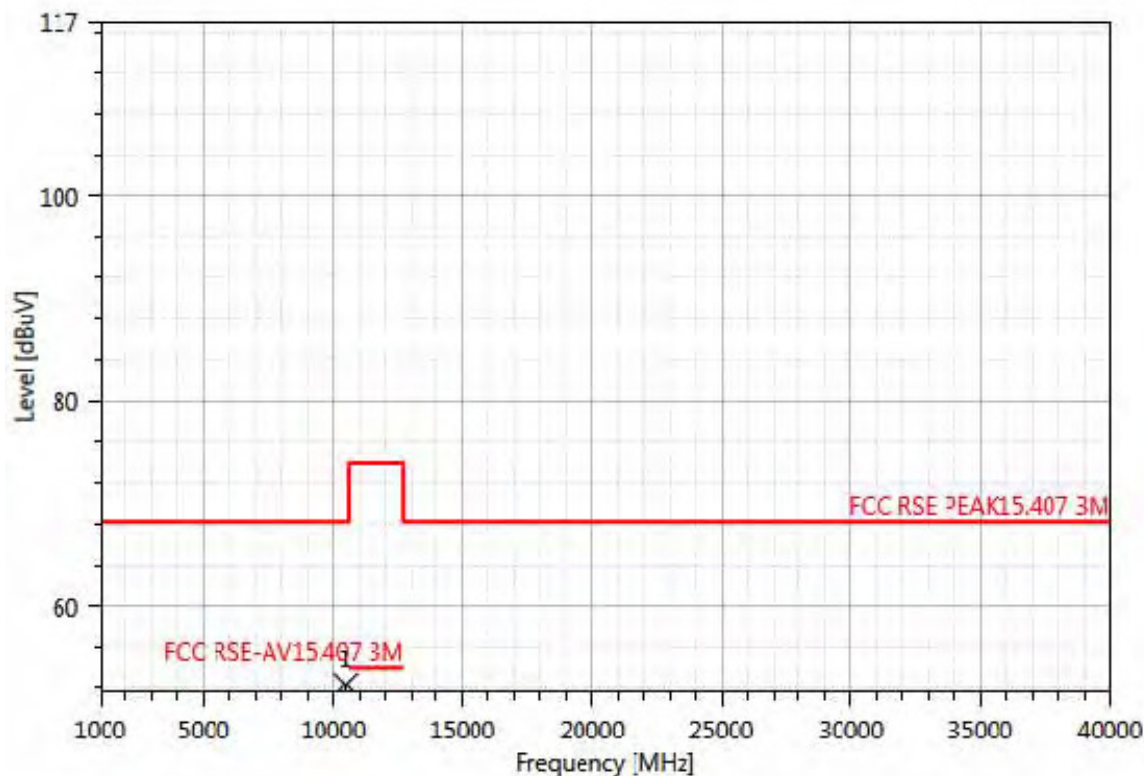
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:23:29
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10480.00	H	Peak	52.37	34.08	18.29	68.30	-15.93

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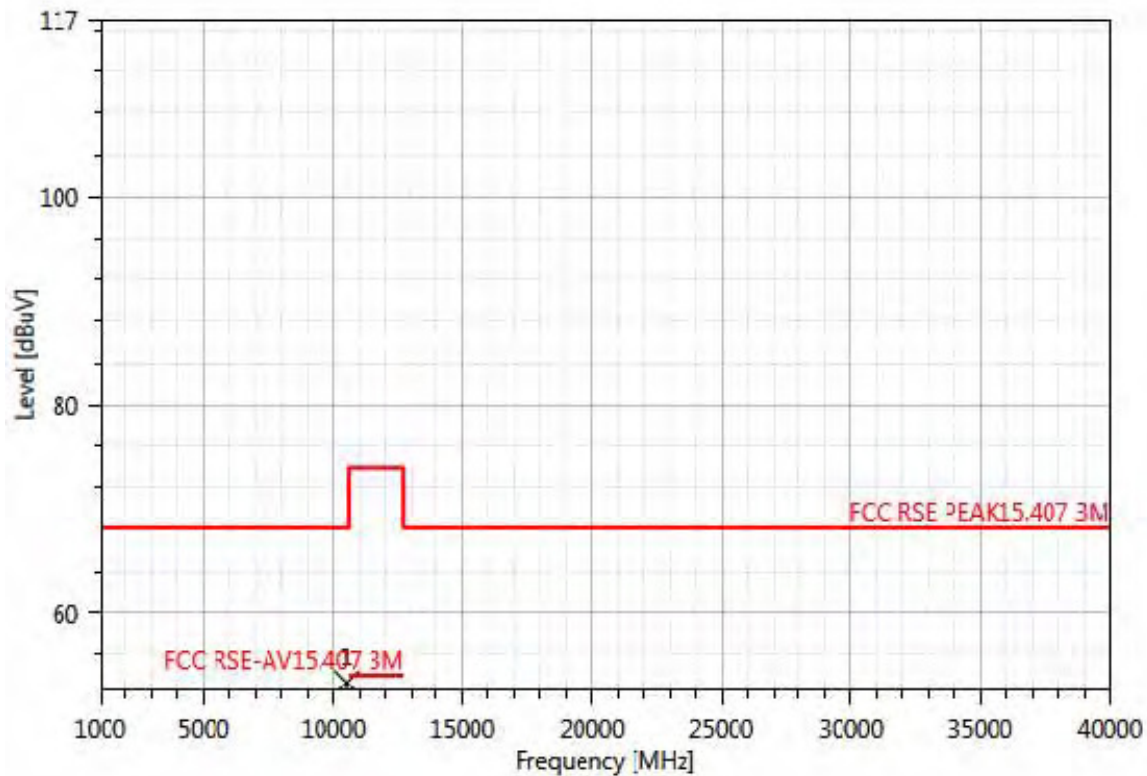
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:28:51
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m dBuV/m	dB
10520.00	H	Peak	53.29	33.92	19.37	68.30	-15.01

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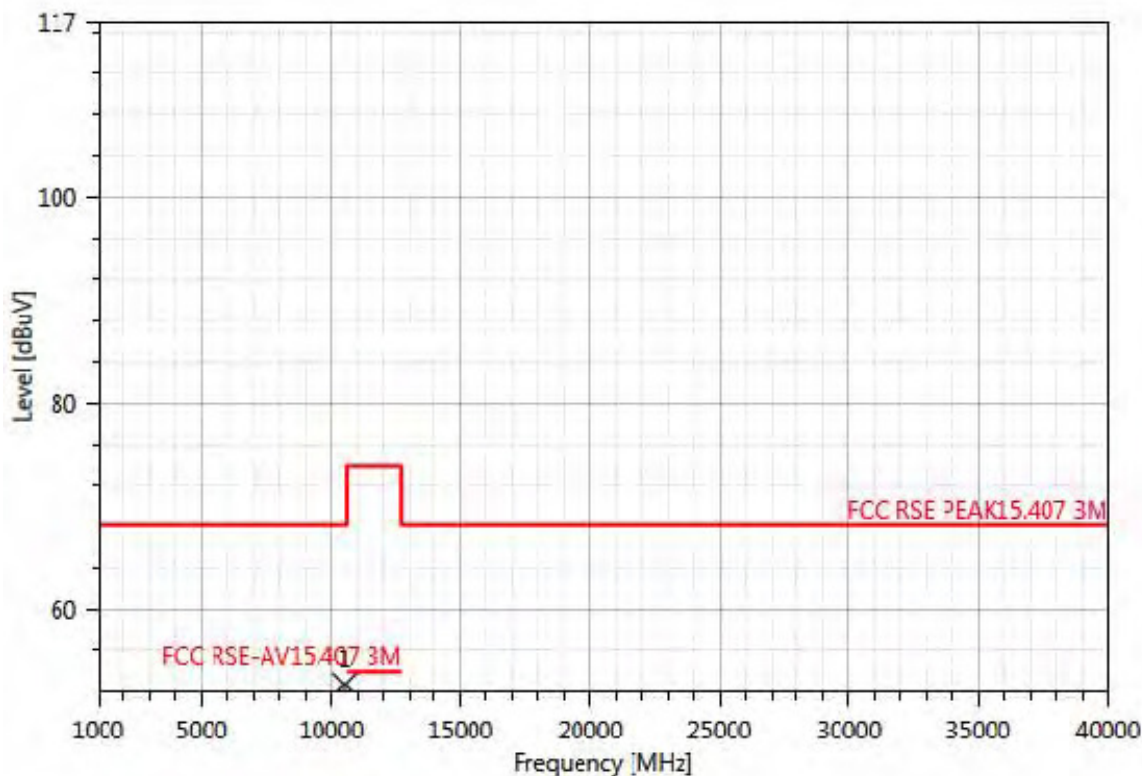
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Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:29:14
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10520.00	H	Peak	52.75	33.38	19.37	68.30	-15.55

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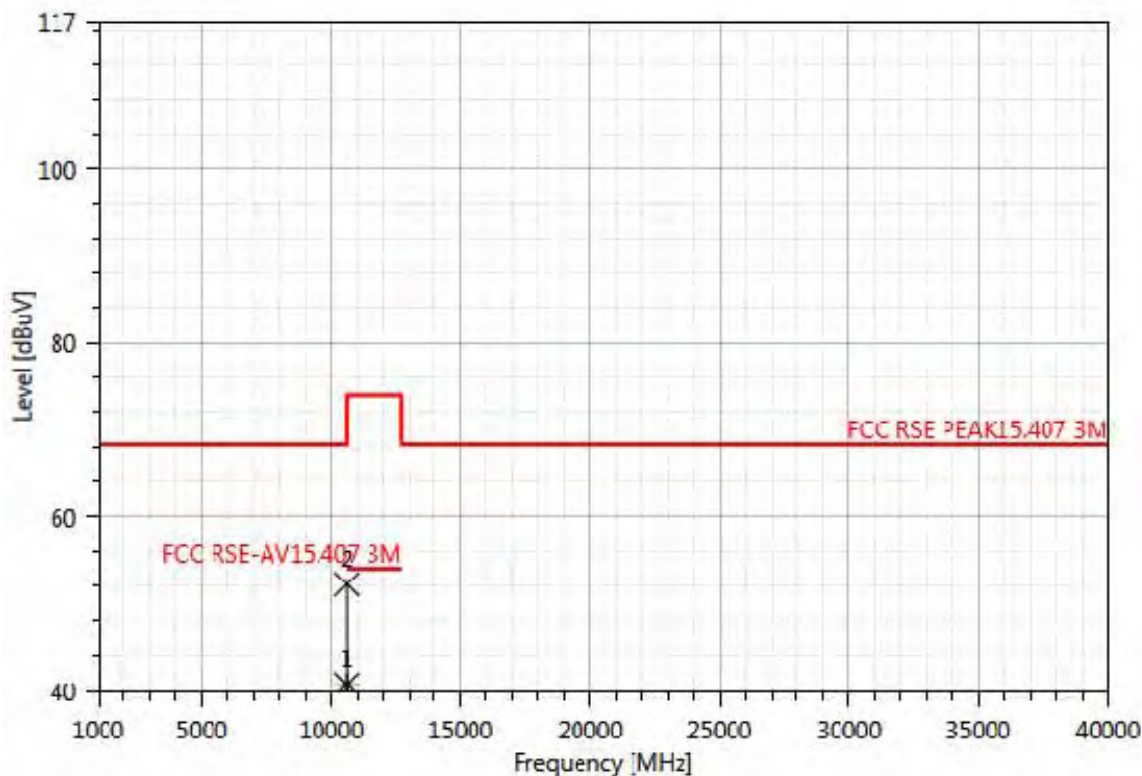
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Operation Mode : 802.11aB2
Fundamental Frequency : 5300 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 05/06/2016 10:33:38
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	40.67	21.76	18.91	54.00	-13.33
10600.00	H	Peak	52.20	33.30	18.91	74.00	-21.80

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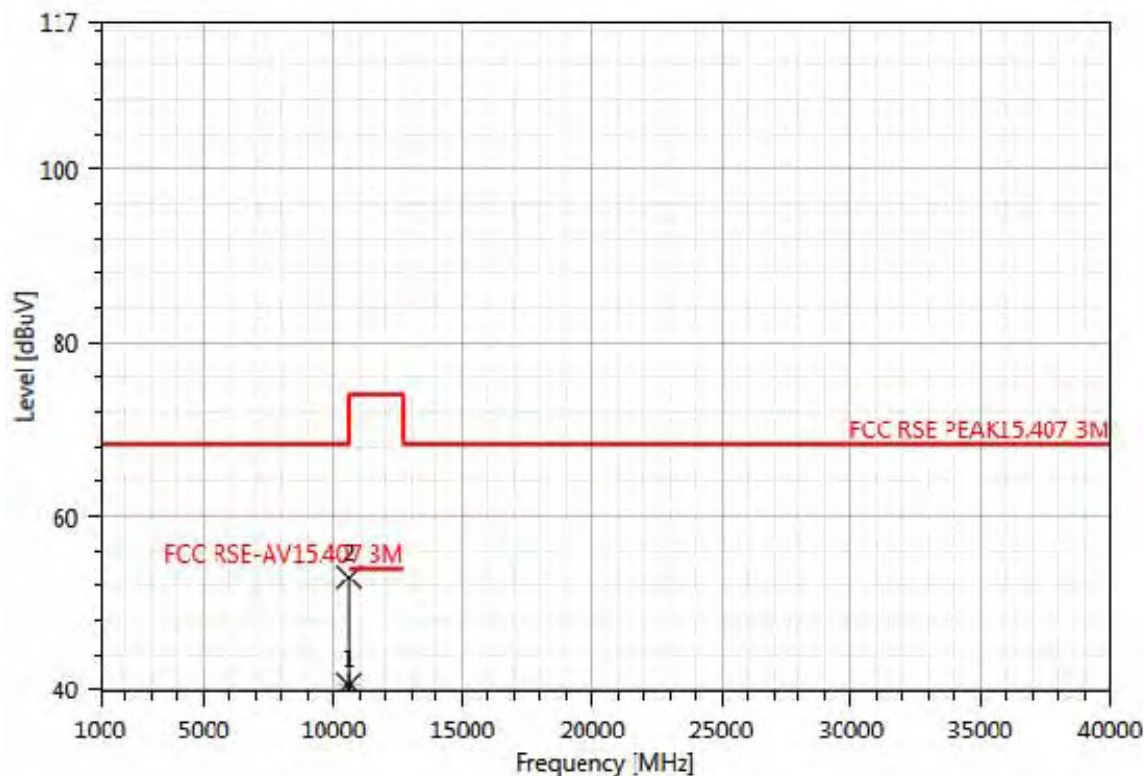
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Operation Mode : 802.11aB2
 Fundamental Frequency : 5300 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 10:34:01
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	40.61	21.70	18.91	54.00	-13.39
10600.00	H	Peak	52.96	34.05	18.91	74.00	-21.04

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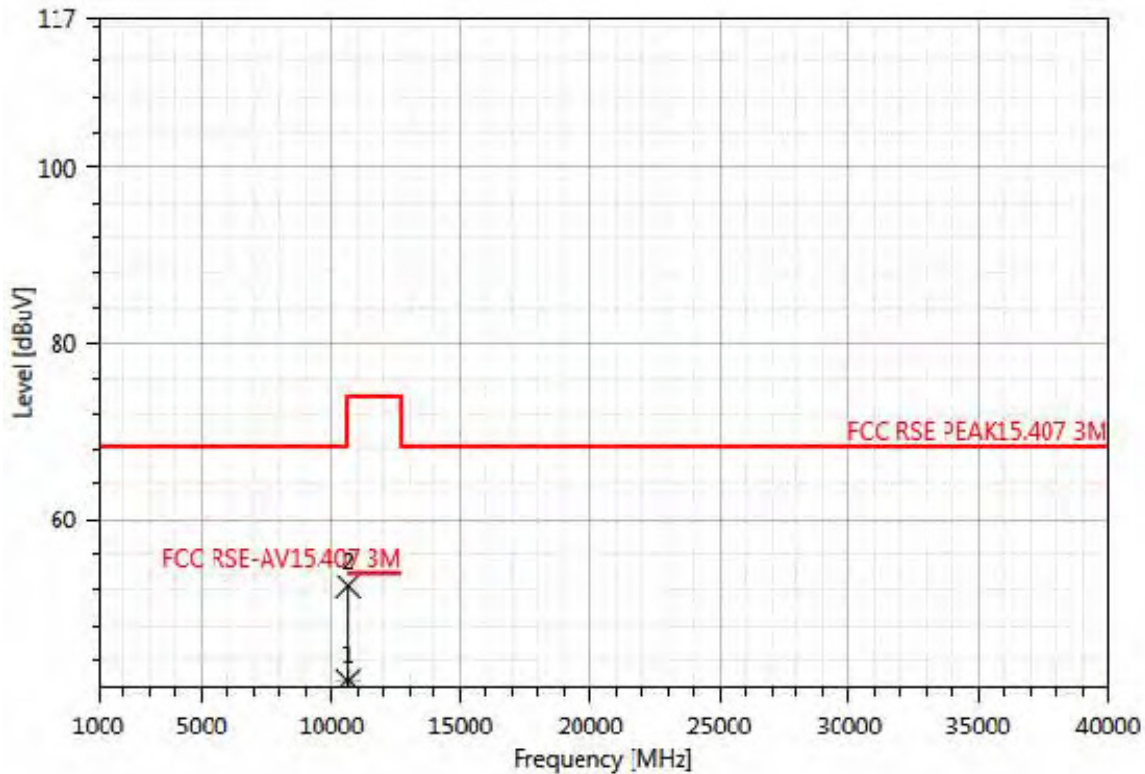
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Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:38:32
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10640.00	H	Average	41.70	22.52	19.18	54.00	-12.30
10640.00	H	Peak	52.37	33.19	19.18	74.00	-21.63

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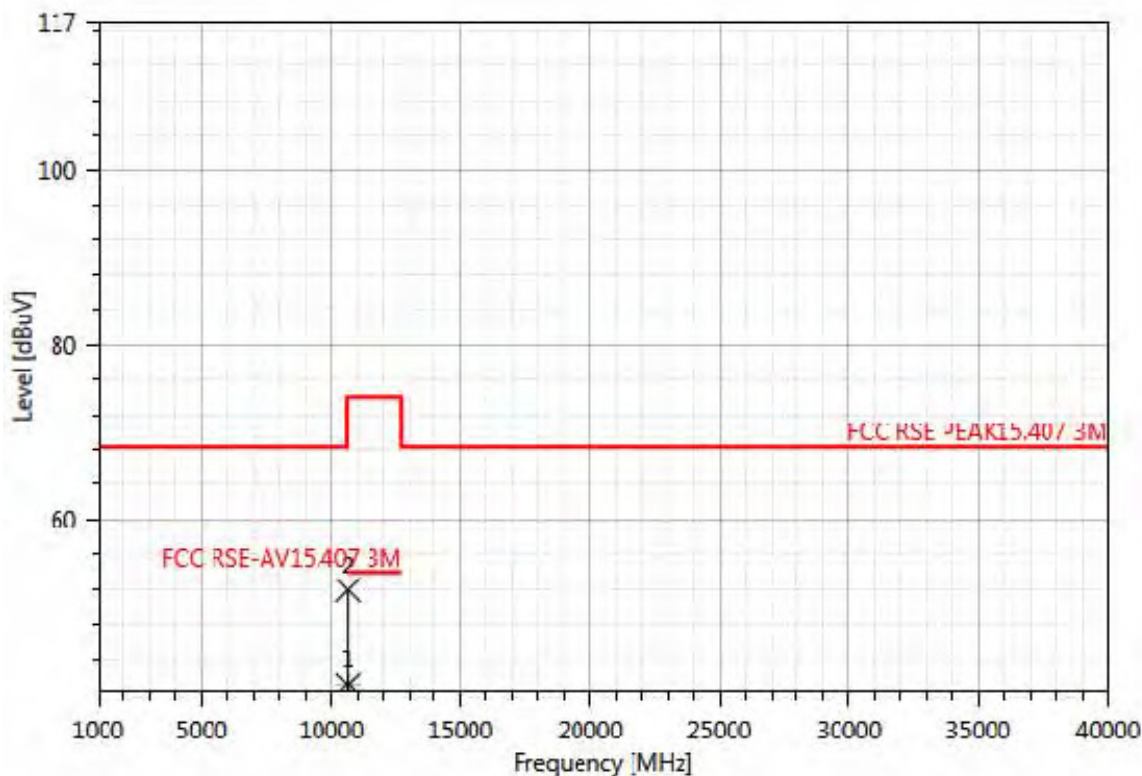
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Operation Mode : 802.11aB2
 Fundamental Frequency : 5320 MHz
 Operation Band : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 10:38:54
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
10640.00	H	Average	41.11	21.93	19.18	54.00	-12.89
10640.00	H	Peak	51.91	32.73	19.18	74.00	-22.09

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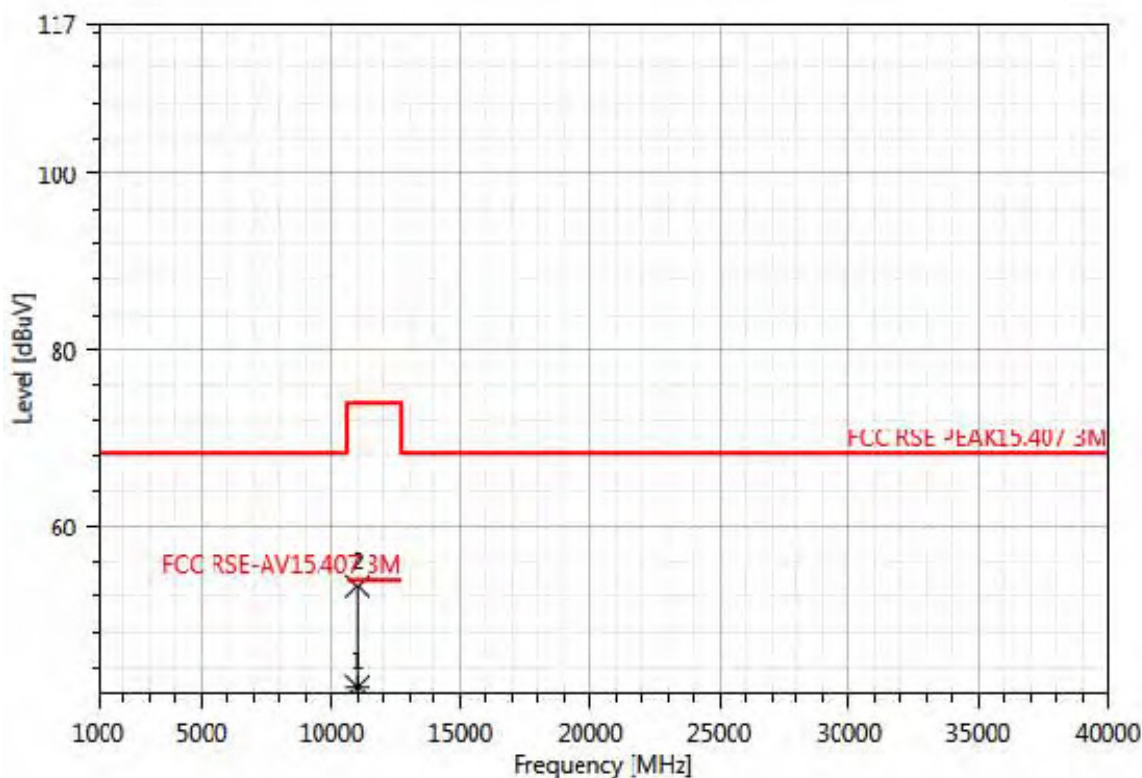
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:33:29
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
11000.00	H	Average	41.84	21.67	20.17	54.00	-12.16
11000.00	H	Peak	53.21	33.04	20.17	74.00	-20.79

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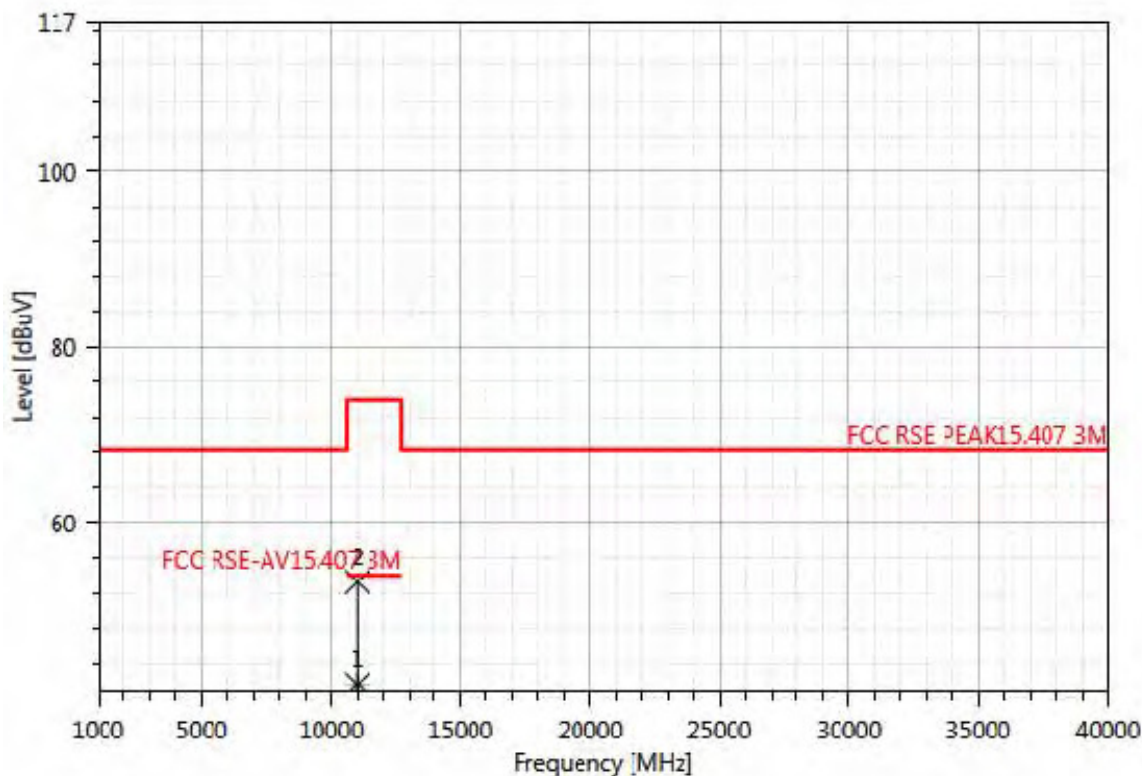
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Operation Mode : 802.11aB3
 Fundamental Frequency : 5500 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 13:33:51
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
11000.00	H	Average	41.59	21.42	20.17	54.00	-12.41
11000.00	H	Peak	53.25	33.08	20.17	74.00	-20.75

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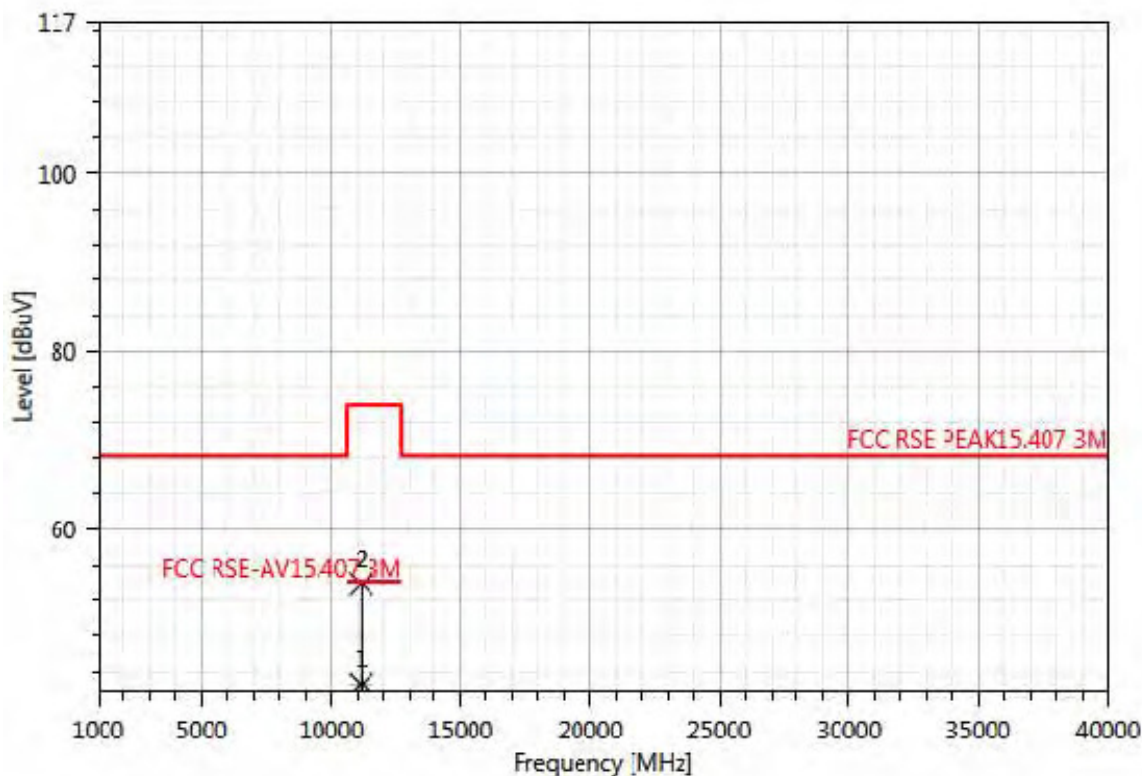
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Operation Mode : 802.11aB3
 Fundamental Frequency : 5580 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 13:41:56
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11160.00	H	Average	42.59	22.14	20.45	54.00	-11.41
11160.00	H	Peak	53.89	33.44	20.45	74.00	-20.11

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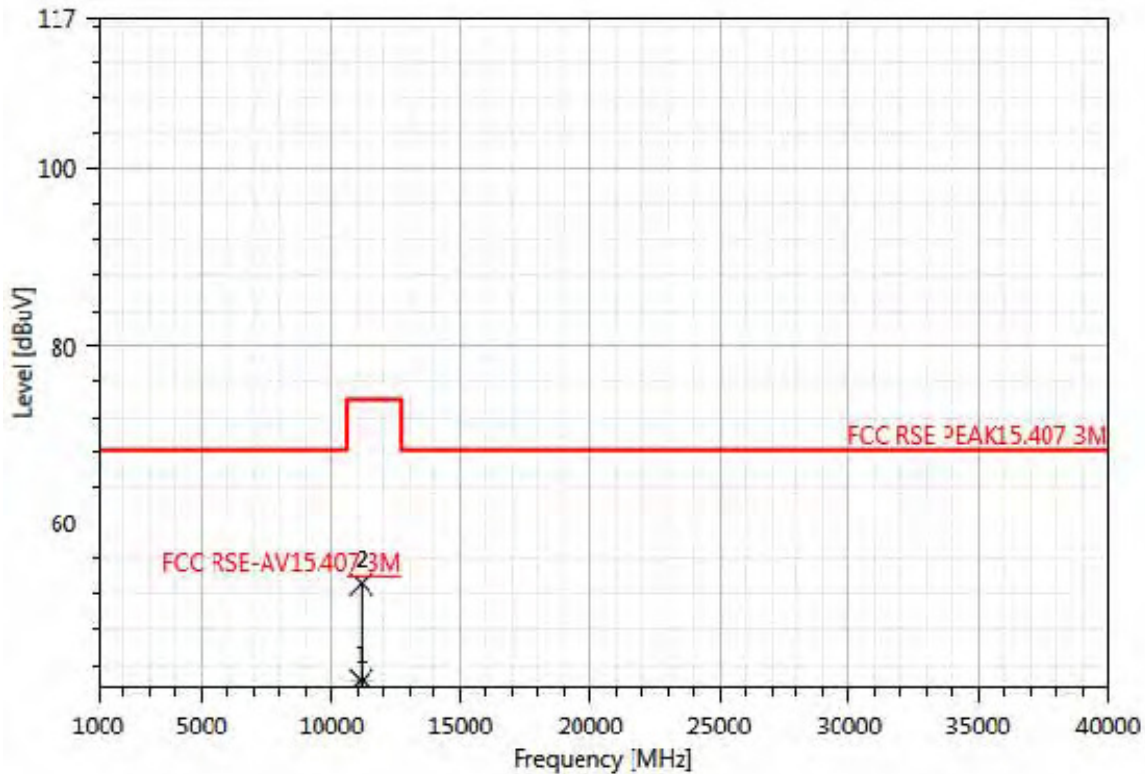
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Operation Mode : 802.11aB3
Fundamental Frequency : 5580 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 05/06/2016 13:42:19
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11160.00	H	Average	42.29	21.84	20.45	54.00	-11.71
11160.00	H	Peak	53.15	32.70	20.45	74.00	-20.85

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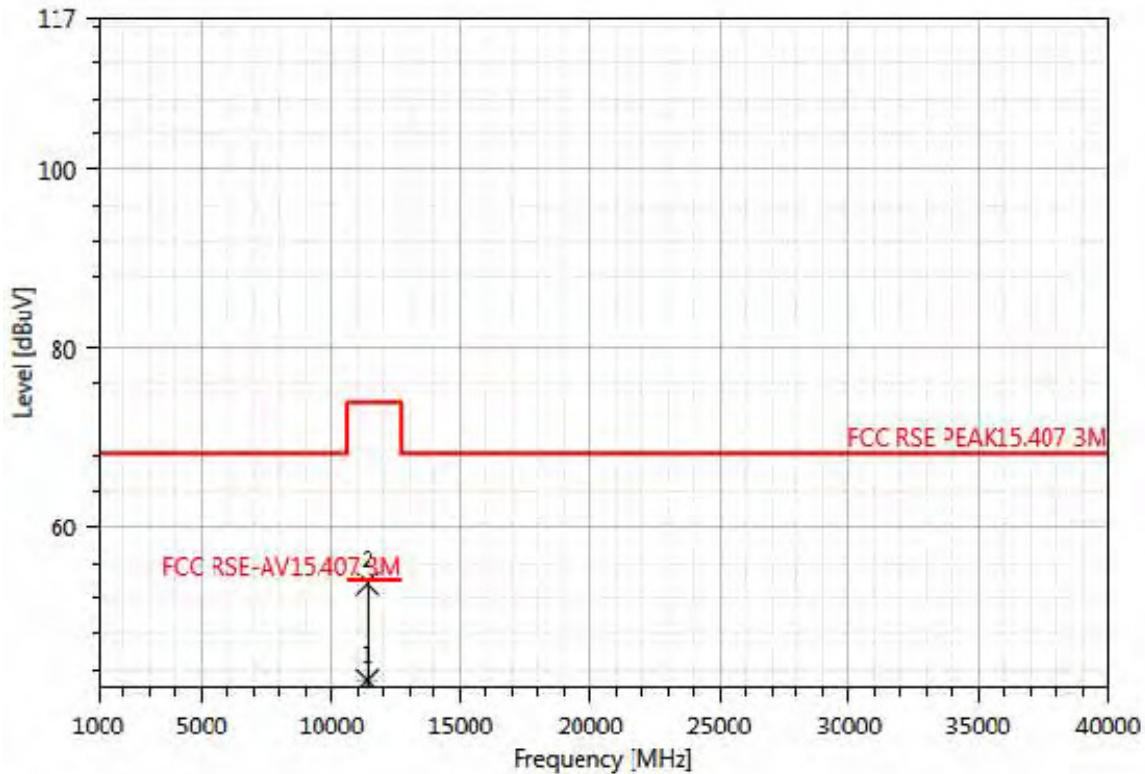
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Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:48:51
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
11400.00	H	Average	42.84	22.28	20.56	54.00	-11.16
11400.00	H	Peak	53.67	33.11	20.56	74.00	-20.33

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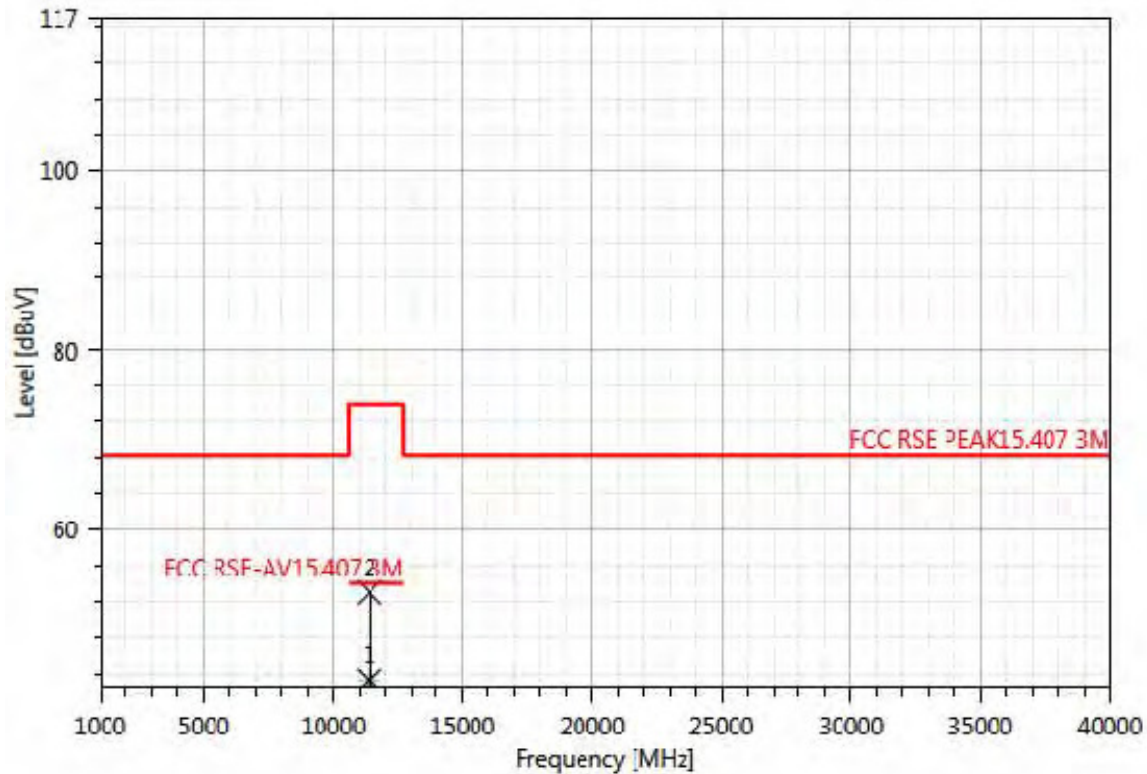
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Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:49:14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m			
11400.00	H	Average	43.20	22.64	20.56	54.00	-10.80
11400.00	H	Peak	52.98	32.42	20.56	74.00	-21.02

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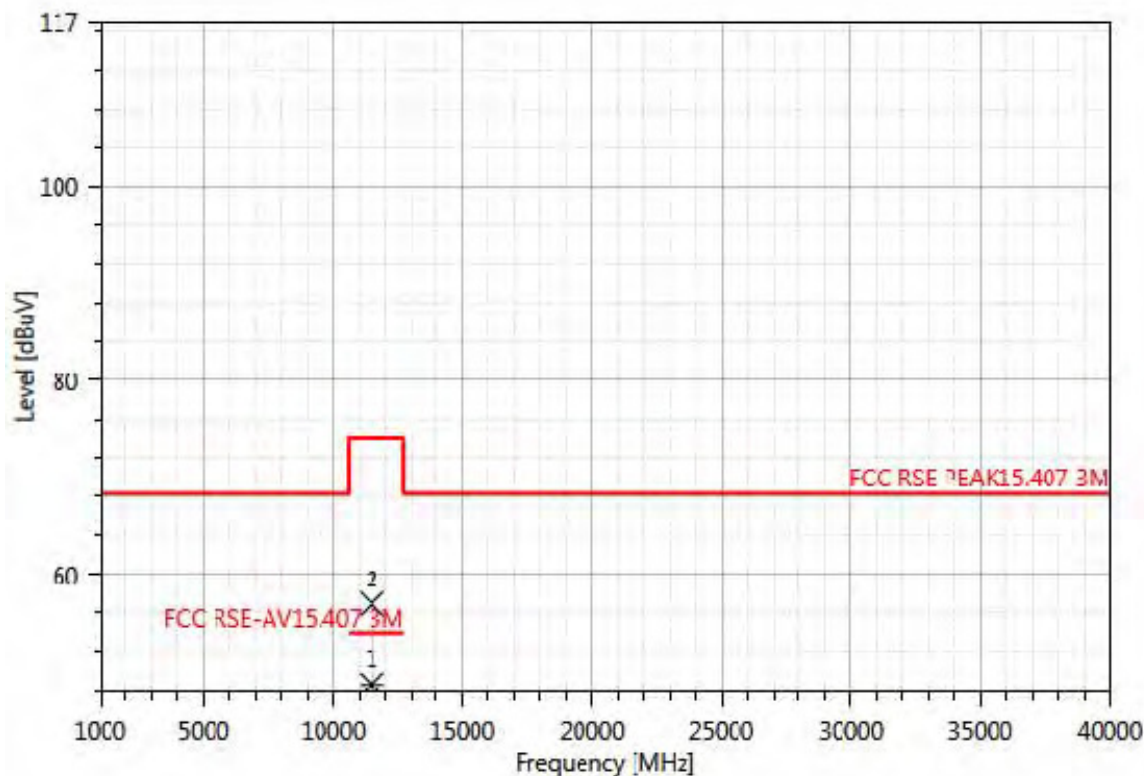
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	05/06/2016 15:16:39
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	48.61	28.19	20.42	54.00	-5.39
11490.00	H	Peak	56.94	36.52	20.42	74.00	-17.06

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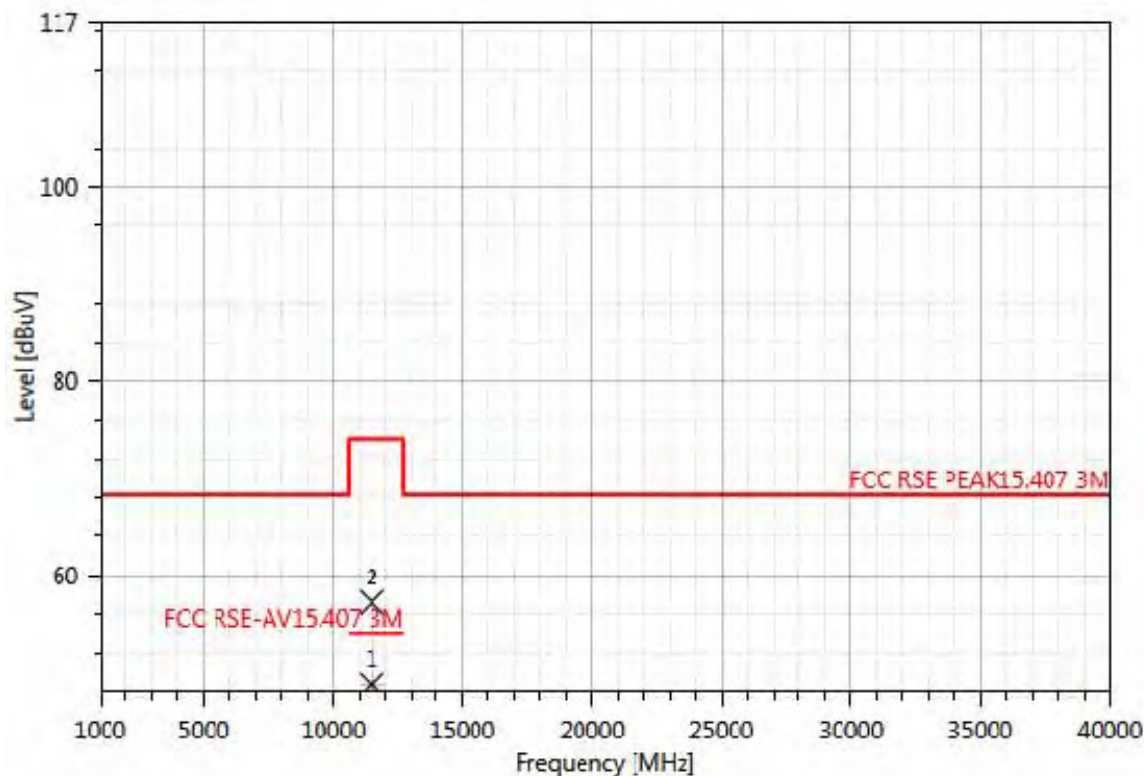
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5745 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 15:17:02
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
11490.00	H	Average	48.80	28.38	20.42	54.00	-5.20
11490.00	H	Peak	57.25	36.82	20.42	74.00	-16.75

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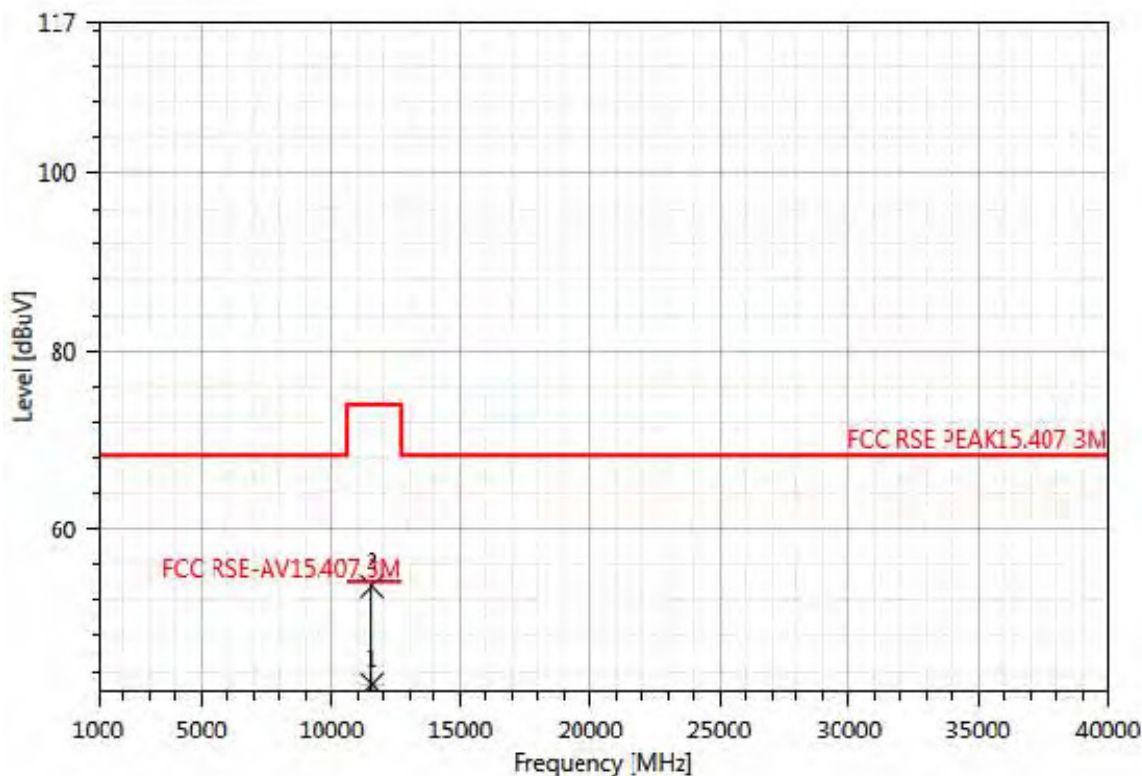
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Operation Mode : 802.11aB4
Fundamental Frequency : 5785 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 05/06/2016 15:28:19
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11570.00	H	Average	42.51	21.92	20.59	54.00	-11.49
11570.00	H	Peak	53.55	32.96	20.59	74.00	-20.45

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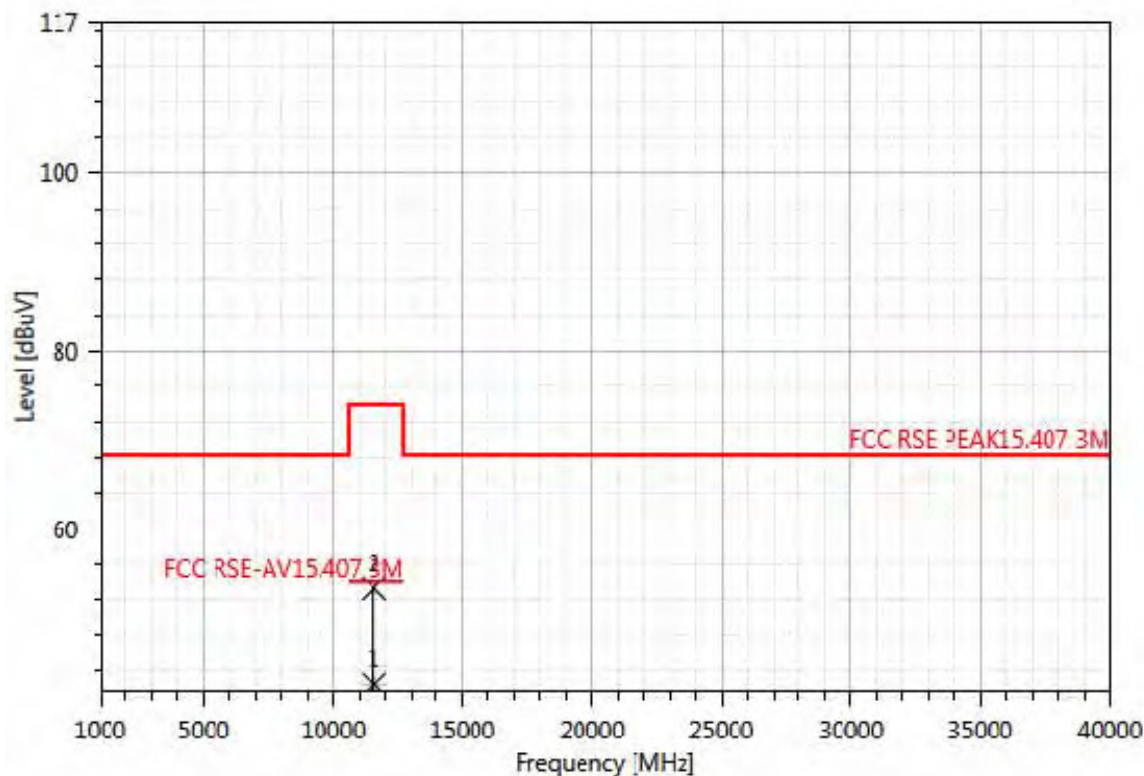
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5785 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 15:28:41
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11570.00	H	Average	42.49	21.90	20.59	54.00	-11.51
11570.00	H	Peak	53.29	32.70	20.59	74.00	-20.71

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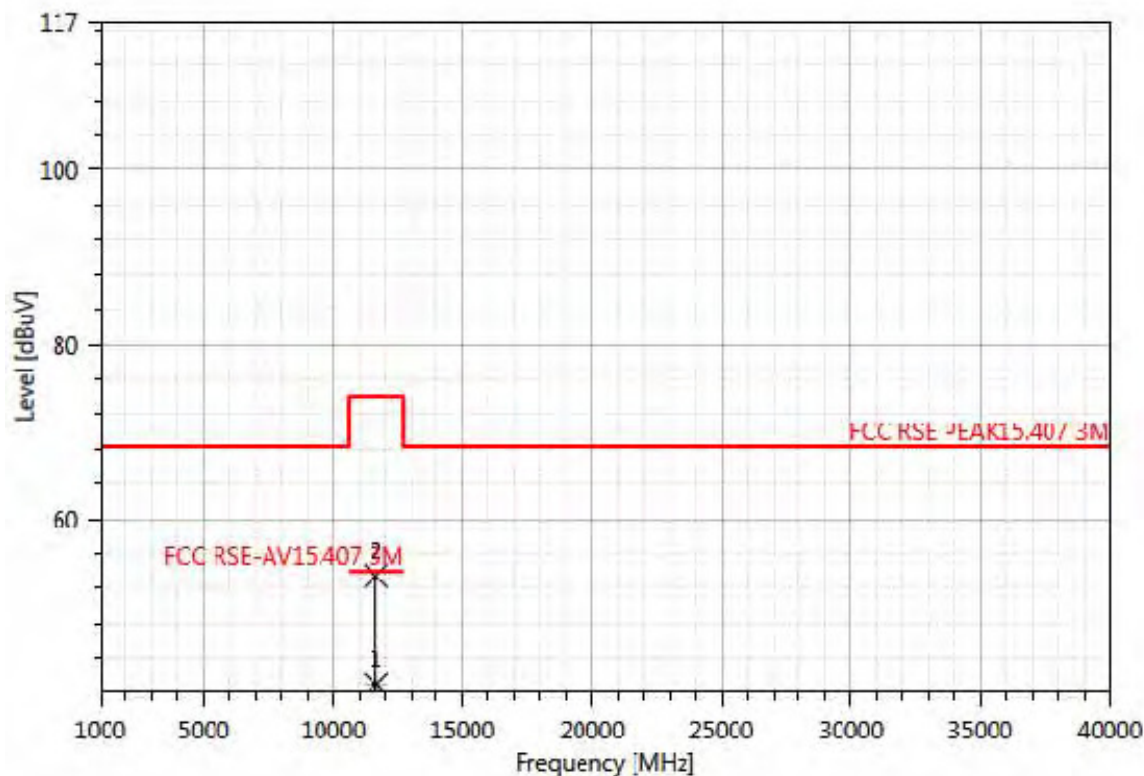
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5825 MHz
 Operation Band : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 15:34:42
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
11650.00	H	Average	41.01	20.58	20.43	54.00	-12.99
11650.00	H	Peak	53.46	33.02	20.43	74.00	-20.54

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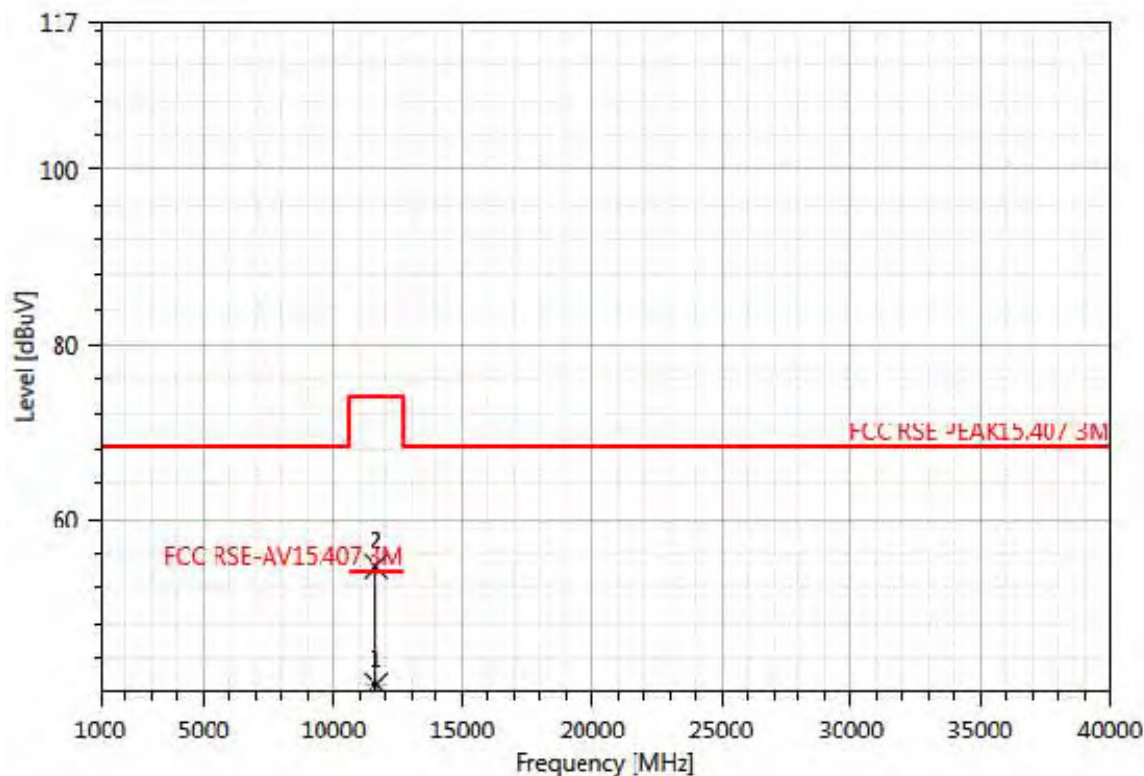
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5825 MHz
 Operation Band : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 05/06/2016 15:35:05
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11650.00	H	Average	41.00	20.57	20.43	54.00	-13.00
11650.00	H	Peak	54.58	34.15	20.43	74.00	-19.42

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