

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name: AC2600 Dual-Band Concurrent Wi-Fi Range Extender

Brand Name: EDIMAX

Marketing Name: RE23S

Model No.: RE23S,EW-7876AC, RE13S,RE13,RA13S, RA23S

Model Difference: For Marketing purpose

FCC ID: NDD9578761608

Report No.: ER/2016/90006

Issue Date: Nov. 15, 2016

FCC Rule Part: §15.407

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

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



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t (886-2) 2299-3279

f (886-2) 2298-0488

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VERIFICATION OF COMPLIANCE

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

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Brand Name: EDIMAX

Marketing Name: RE23S

Model No.: RE23S, EW-7876AC, RE13S, RE13, RA13S, RA23S

Model Difference: For Marketing purpose

FCC ID: NDD9578761608

File Number: ER/2016/90005

Date of Test: Sep. 02, 2016 ~ Nov. 11, 2016

Date of EUT Received: Sep. 02, 2016

We hereby certify that:

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

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

Test By:

Louis Chen

Date:

Nov. 15, 2016

Louis Chen / Engineer

Prepared By:

Yuri Tsai

Date:

Nov. 15, 2016

Yuri Tsai / Clerk

**Approved
By:**

Jim Chang

Date:

Nov. 15, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/90006	Rev.00	Initial creation of document	Nov. 15, 2016

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Contents

1. GENERAL INFORMATION	5
2. SYSTEM TEST CONFIGURATION	9
3. SUMMARY OF TEST RESULT	12
4. DESCRIPTION OF TEST MODES	13
5. MEASUREMENT UNCERTAINTY	16
6. CONDUCTED EMISSION TEST	17
7. DUTY CYCLE TEST SIGNAL	21
8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT	24
9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	98
10. PEAK POWER SPECTRAL DENSITY	102
11. UNDESIRABLE RADIATED EMISSION MEASUREMENT	116
12. TRANSMISSION IN THE ABSENCE OF DATA	211
13. FREQUENCY STABILITY	212
14. ANTENNA REQUIREMENT	216

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	AC2600 Dual-Band Concurrent Wi-Fi Range Extender
Brand Name:	EDIMAX
Marketing Name:	RE23S
Model No.:	RE23S, EW-7876AC, RE13S, RE13, RA13S, RA23S
Model difference:	For Marketing purpose
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	12Vdc from DC Power Supply

WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	23.85dBm	OFDM
	5725-5850	5	24.94 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 23.61 dBm Beam Forming Mode:18.97 dBm (Worst Case)	OFDM
	HT20 / VHT20 5725-5850	5	HT: 26.45 dBm Beam Forming Mode:24.64 dBm (Worst Case)	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 19.02 dBm Beam Forming Mode:18.60 dBm (Worst Case)	OFDM
	HT40 / VHT40 5725-5850	2	HT: 25.22 dBm Beam Forming Mode:23.09dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	17.01 dBm Beam Forming Mode:14.06 dBm	OFDM
	VHT80 5725-5850	1	21.33 dBm Beam Forming Mode:16.64 dBm	

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Antenna Designation	<p>PIFA Antenna</p> <p>1. Model No.: ALA160-222035-000000, Supplier: LYNwave 5GHz Gain: 5.02dBi (5150MHz-5250MHz) 5GHz Gain: 5.02dBi (5725MHz-5850MHz)</p> <p>2. Model No.: 222036-000000, Supplier: LYNwave 5GHz Gain: 4.56dBi (5150MHz-5250MHz) 5GHz Gain: 4.56dBi (5725MHz-5850MHz)</p> <p>Dipole Antenna</p> <p>1. Model No.: 98324PRSX000, Supplier: Master Wave 5GHz Gain: 5.15dBi (5150MHz-5250MHz) 5GHz Gain: 5.22dBi (5725MHz-5850MHz)</p> <p>2. Model No.: 98324PRSX000, Supplier: Master Wave 5GHz Gain: 5.15dBi (5150MHz-5250MHz) 5GHz Gain: 5.22dBi (5725MHz-5850MHz)</p>
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transition Rate:	<p>802.11 a: 6/9/12/18/24/36/48/54 Mbps</p> <p>802.11 n_20MHz: 6.5 – 144.4Mbps</p> <p>802.11 n_40MHz: 13.5 – 300Mbps</p> <p>802.11 ac_20MHz: 6.5 –144.4Mbps</p> <p>802.11 ac_40MHz: 13.5 –300Mbps</p> <p>802.11 ac_80MHz: 29.3 – 650Mbps</p>

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1.2 Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	AC2600 Dual-Band Concurrent Wi-Fi Range Extender
Brand Name:	EDIMAX
Marketing Name:	RE23S
Model No.:	RE23S, EW-7876AC, RE13S, RE13, RA13S, RA23S
Model Difference:	For Marketing purpose
FCC ID:	NDD9578761608
Wi-Fi Specification	802.11a/b/g/n/ac

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

ANSI C63.10:2013

Note:

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

1.4 Test Facility

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

FCC Registration Numbers are: 59634

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 4dB, and 10dB attenuator.

MIMO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} + 10 \log(N_{\text{ANT}}) \text{ dB} = 14\text{dB}$$

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2.5 Configuration of Tested System

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

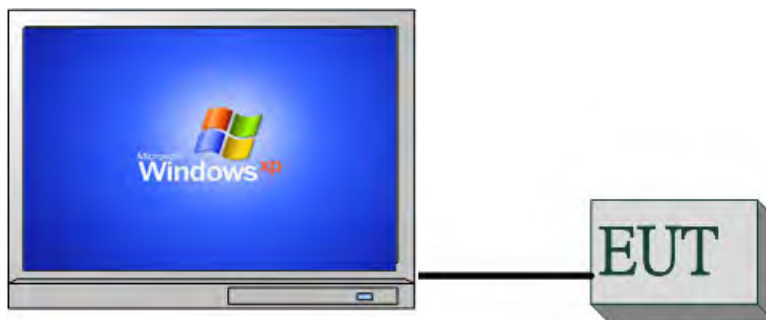


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	LR-7HXZA	N/A	Un-shielded

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5725 MHz ~5850 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS24	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS24	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS24	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS24	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

Remark: Included CDD and Beam Forming Mode test data.

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS24	MIMO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS24	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS24	MIMO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS24	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS24	MIMO

Remark: Maximum Conducted Output power included CDD and Beam Forming Mode test data.

Directional gain (MIMO)

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

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

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

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

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

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

6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/2 50-25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016

6.3. EUT Setup

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

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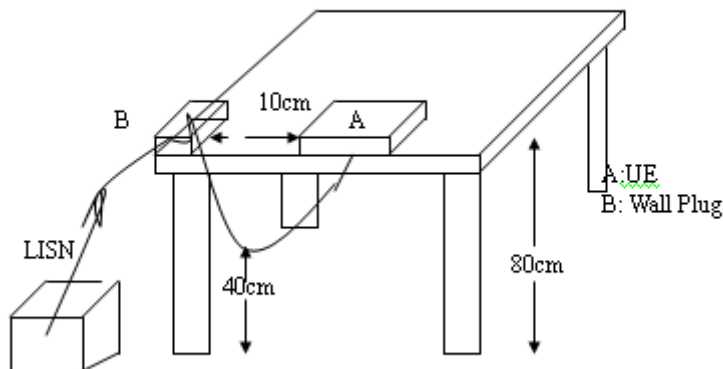
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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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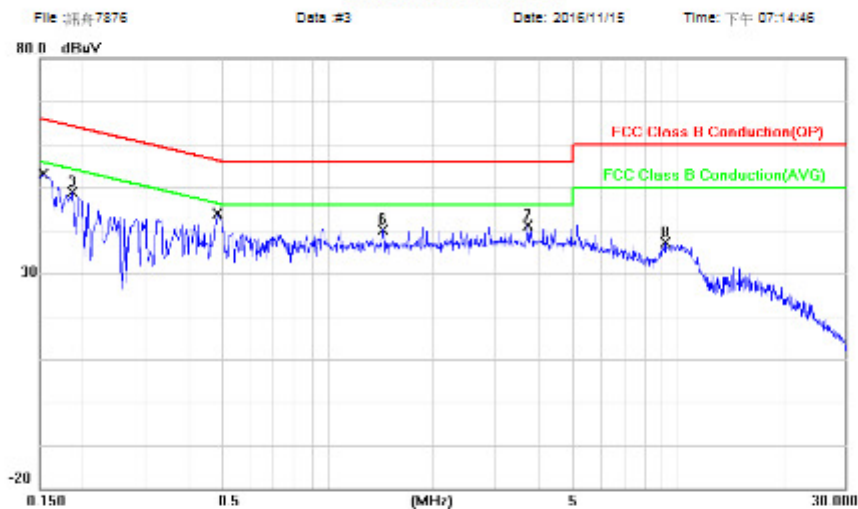
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	operation mode	Test By:	Aken Huang
-----------------	----------------	----------	------------

Site: Conduction Room	Phase: L1	Temperature: 20 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 58 %
Mode: Operation mode		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1540	55.60	0.10	55.70	65.78	-10.08	QP	
2		0.1540	29.80	0.10	29.90	55.78	-25.88	AVG	
3		0.1880	48.83	0.10	48.93	64.21	-15.28	peak	
4		0.4820	41.30	0.12	41.42	56.30	-14.88	QP	
5		0.4820	33.90	0.12	34.02	56.30	-12.28	AVG	
6		1.4380	39.89	0.15	40.04	56.00	-15.96	peak	
7		3.7280	40.94	0.26	41.20	56.00	-14.80	peak	
8		9.1680	36.68	0.38	37.06	60.00	-22.94	peak	

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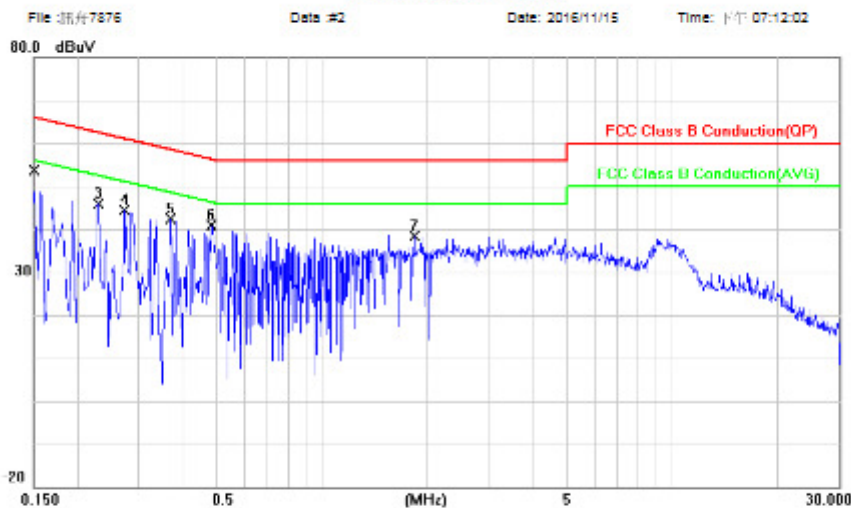
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Site: Conduction Room Phase: **N** Temperature: 20 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 58 %
Mode: Operation mode
Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1	*	0.1500	50.90	0.07	50.97	60.00	-15.03	QP	
2		0.1500	30.10	0.07	30.17	58.00	-25.83	AVG	
3		0.2300	45.80	0.08	45.88	62.45	-16.57	peak	
4		0.2740	44.39	0.09	44.48	61.00	-16.52	peak	
5		0.3700	42.31	0.10	42.41	58.50	-16.09	peak	
6		0.4880	40.80	0.10	40.90	58.24	-15.34	peak	
7		1.8340	38.34	0.15	38.49	58.00	-17.51	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	99.99	0.00
802.11n_20	99.99	0.00
802.11n_40	99.99	0.00
802.11ac_80	99.99	0.00

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9999) = 0$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9999) = 0$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9999) = 0$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9999) = 0$$

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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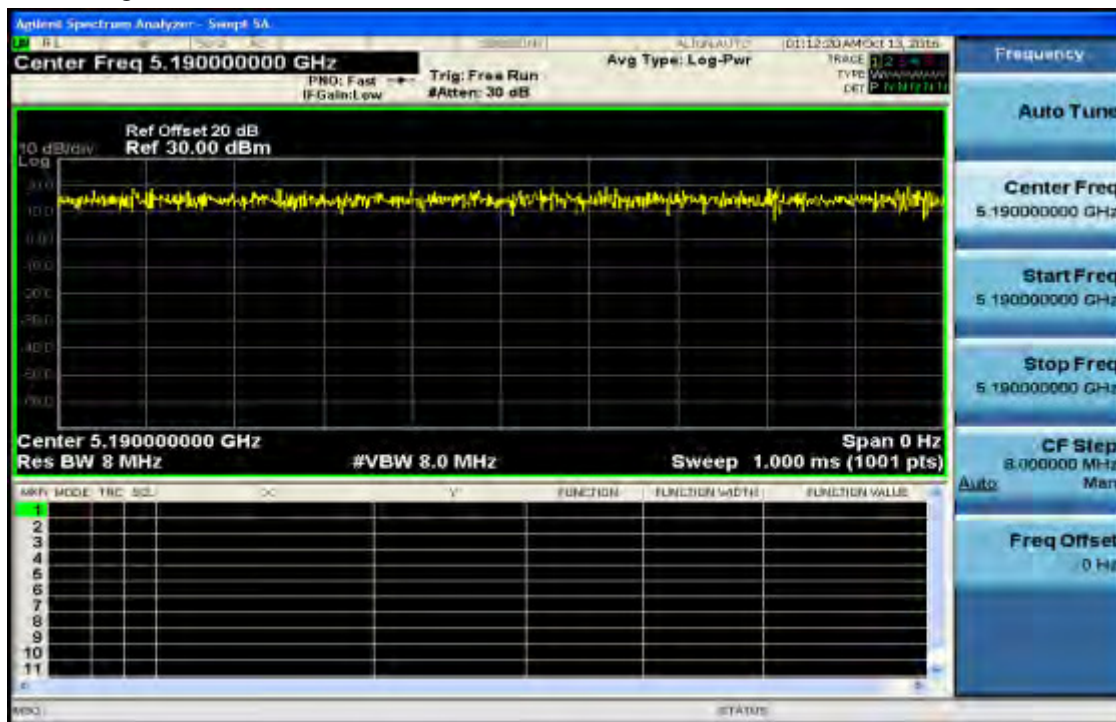
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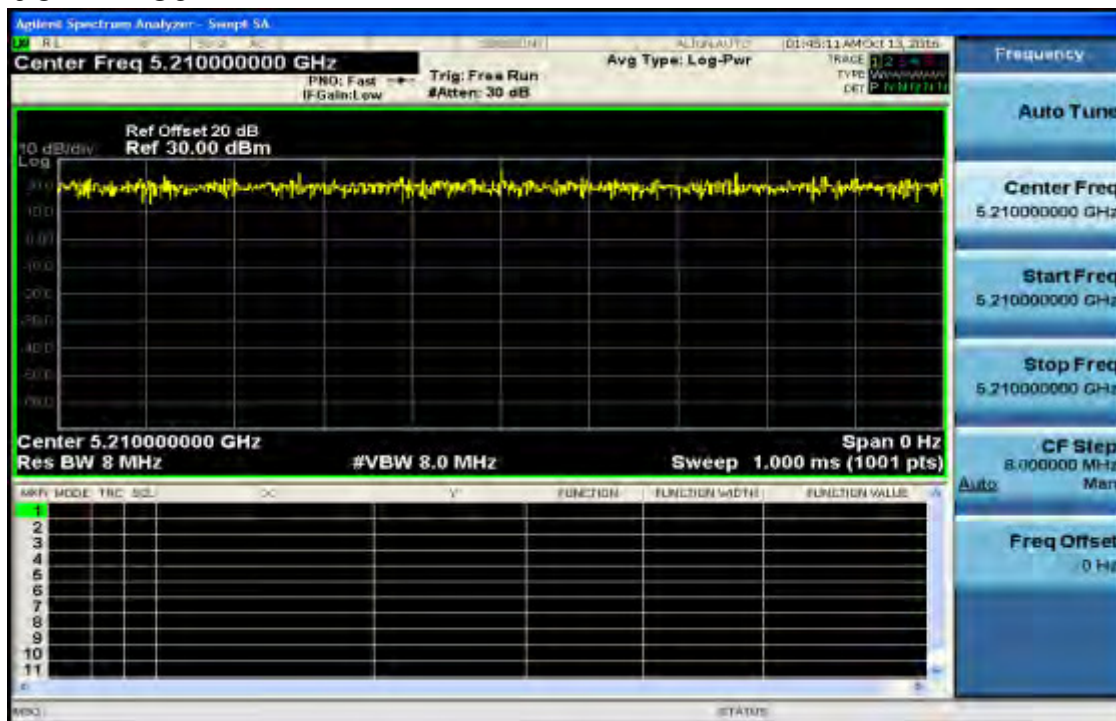
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802.11n HT 40



802.11 ac VHT 80



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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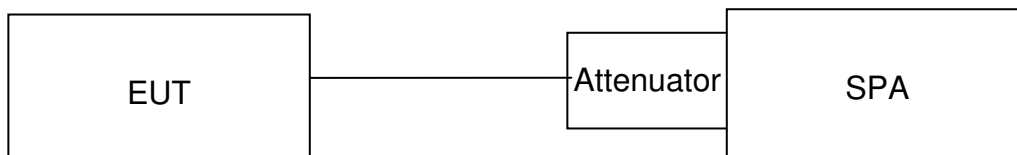
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8.3 Measurement Equipment Used

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

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.82	13.769
5220	29.81	14.744
5240	24.17	13.833

802.11a_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	28.85	14.601
5220	26.44	14.223
5240	19.76	12.958

802.11a_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	29.88	14.754
5220	19.63	12.929
5240	19.70	12.945

802.11a_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.68	12.940
5220	19.57	12.916
5240	19.63	12.929

CDD Mode:

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.96	13.214
5220	19.94	12.997
5240	23.34	13.681

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	29.10	14.639
5220	27.30	14.362
5240	19.90	12.989

802.11n_HT20_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	29.94	14.763
5220	20.21	13.056
5240	20.14	13.041

802.11n_HT20_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.71	12.947
5220	30.00	14.771
5240	19.81	12.969

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802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.90	16.010
5230	49.82	16.974

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	48.12	16.823
5230	39.89	16.009

802.11n_HT40_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.85	16.112
5230	39.99	16.020

802.11n_HT40_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.46	16.070
5230	40.17	16.039

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	79.86	19.023

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	99.53	19.980

802.11ac_VHT80_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	79.62	19.010

802.11ac_VHT80_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	100.00	20.000

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

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.67	11.951
5785	15.12	11.796
5825	16.28	12.117

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.28	12.117
5785	16.07	12.060
5825	16.31	12.125

802.11a_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.36	12.138
5785	16.04	12.052
5825	15.13	11.798

802.11a_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.07	11.781
5785	16.07	12.060
5825	15.15	11.804

CDD Mode:

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.88	12.009
5785	15.12	11.796
5825	15.14	11.801

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.29	12.119
5785	15.11	11.793
5825	16.35	12.135

802.11n_HT20_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.00	11.761
5785	15.76	11.976
5825	15.05	11.775

802.11n_HT20_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.13	11.798
5785	14.39	11.581
5825	15.14	11.801

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802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.00	15.441
5795	35.10	15.453

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.85	15.296
5795	35.10	15.453

802.11n_HT40_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.83	15.293
5795	33.89	15.301

802.11n_HT40_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	31.35	14.962
5795	33.88	15.299

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	71.40	18.537

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	70.20	18.463

802.11ac_VHT80_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.87	18.685

802.11ac_VHT80_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.88	18.685

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99% Bandwidth
(5150~5250 MHz)
802.11a

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.25	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.19	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.19	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.22	< 5250

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802.11n HT20

Main

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

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.76	< 5250

Aux2

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

Aux3

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

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802.11n HT40

Main

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

Aux1

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

Aux2

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

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5247.90	< 5250

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802.11ac VHT80

Main

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

Aux1

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

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.60	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5247.40	< 5250

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5725~5850MHz

802.11a

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.72	> 5725

Aux1

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

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.81	> 5725

Aux3

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

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802.11n HT20

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.06	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.12	> 5725

Aux2

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

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.09	> 5725

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802.11n HT40

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.80	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.90	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.90	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5736.90	> 5725

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802.11ac VHT80

Main

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

Aux1

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

Aux2

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

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5737.20	> 5725

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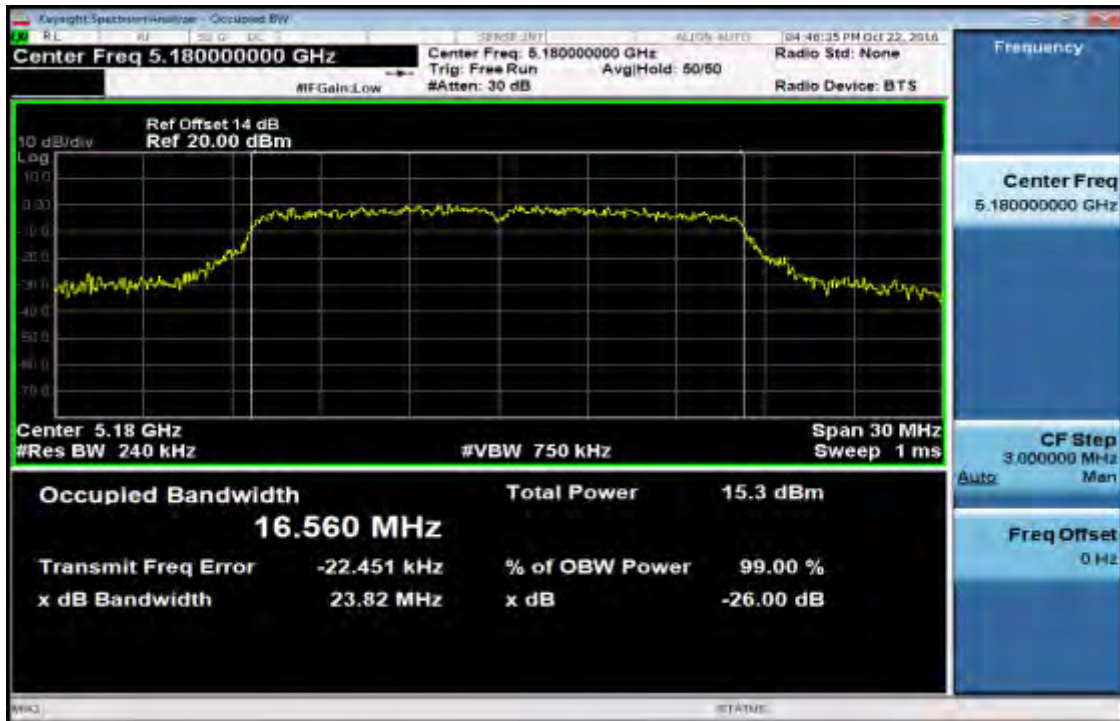
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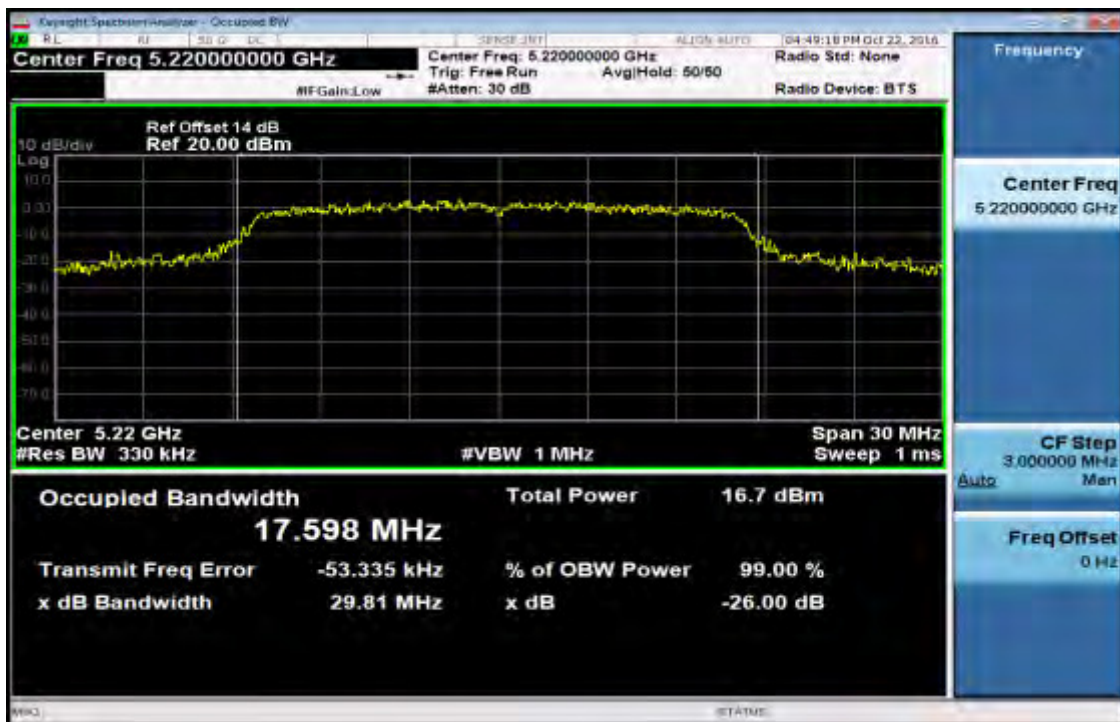
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



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



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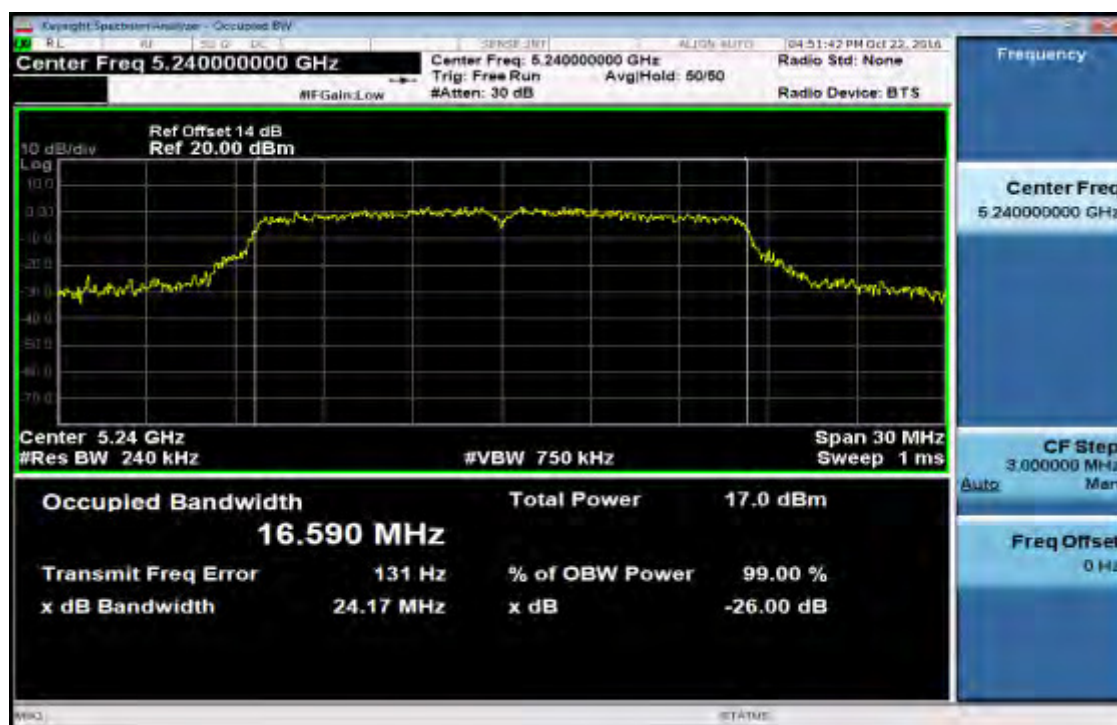
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26dB Band Width Test Data CH-High (5240MHz)



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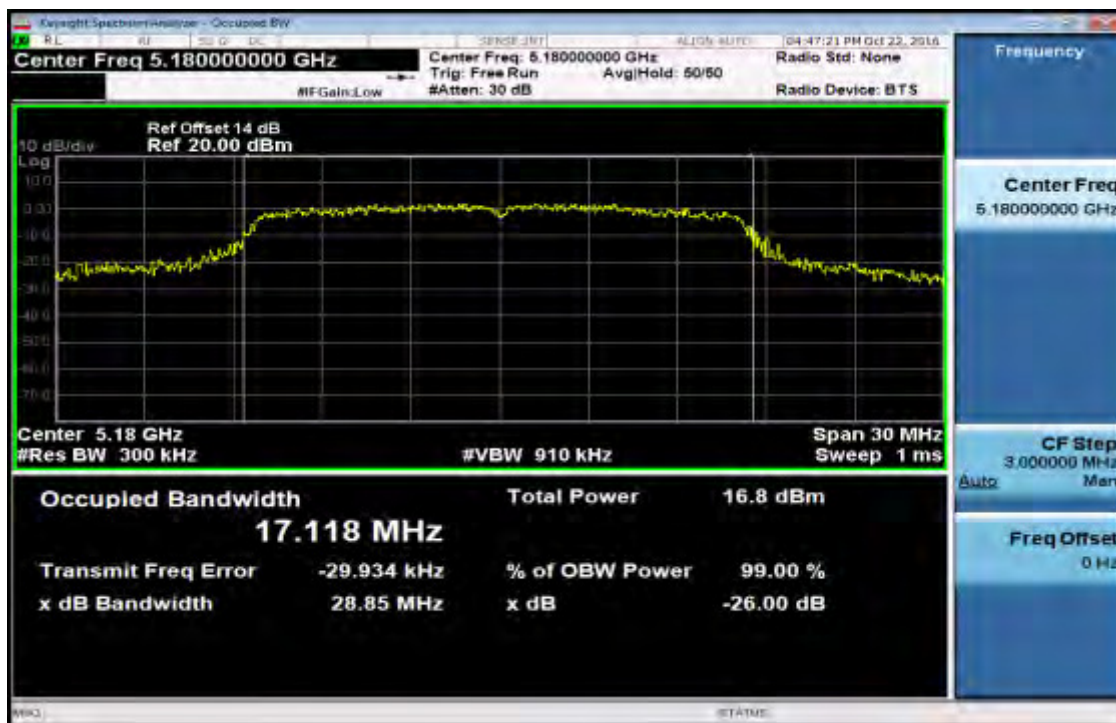
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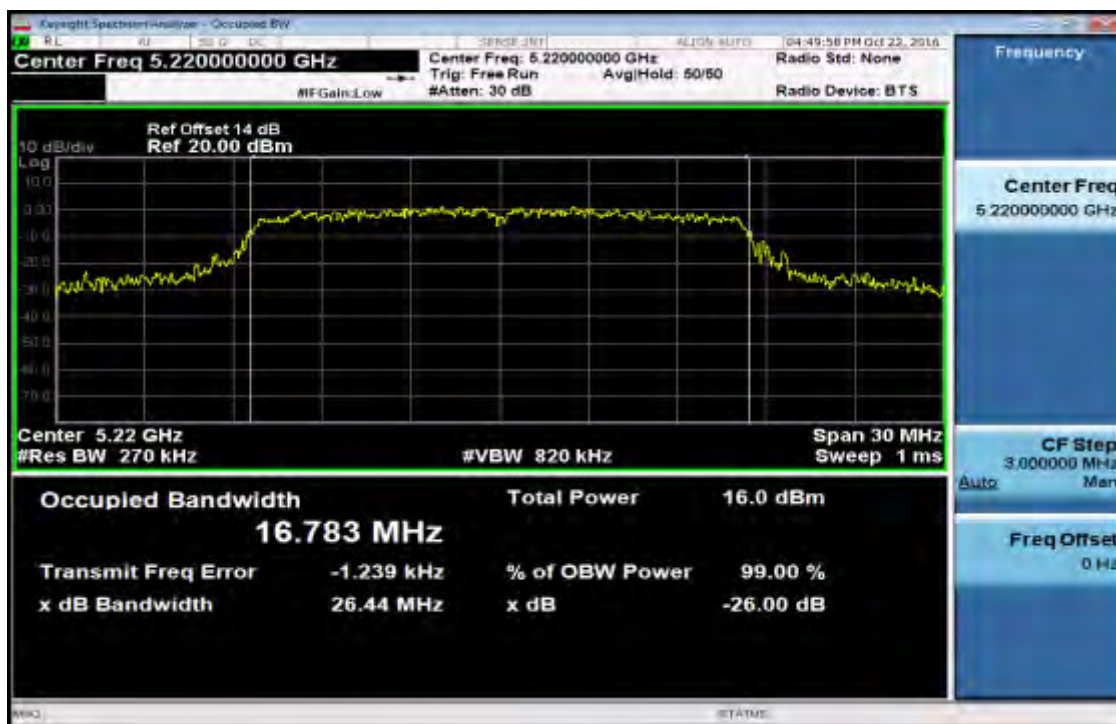
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802.11a, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5180MHz)



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



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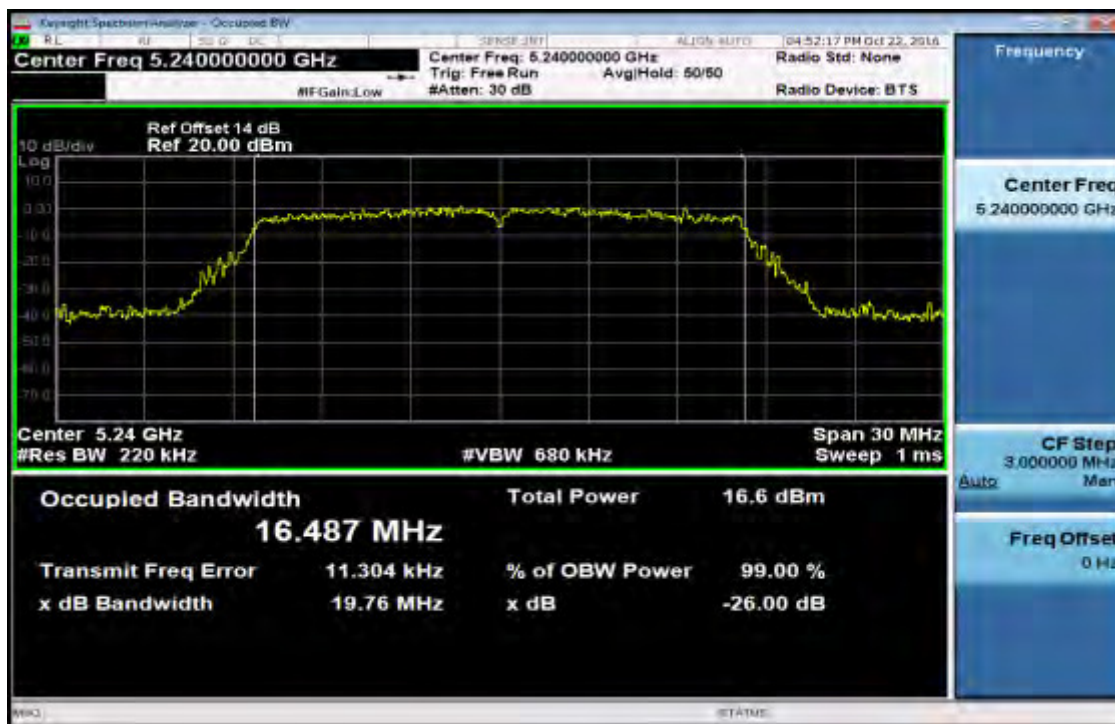
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26dB Band Width Test Data CH-High (5240MHz)



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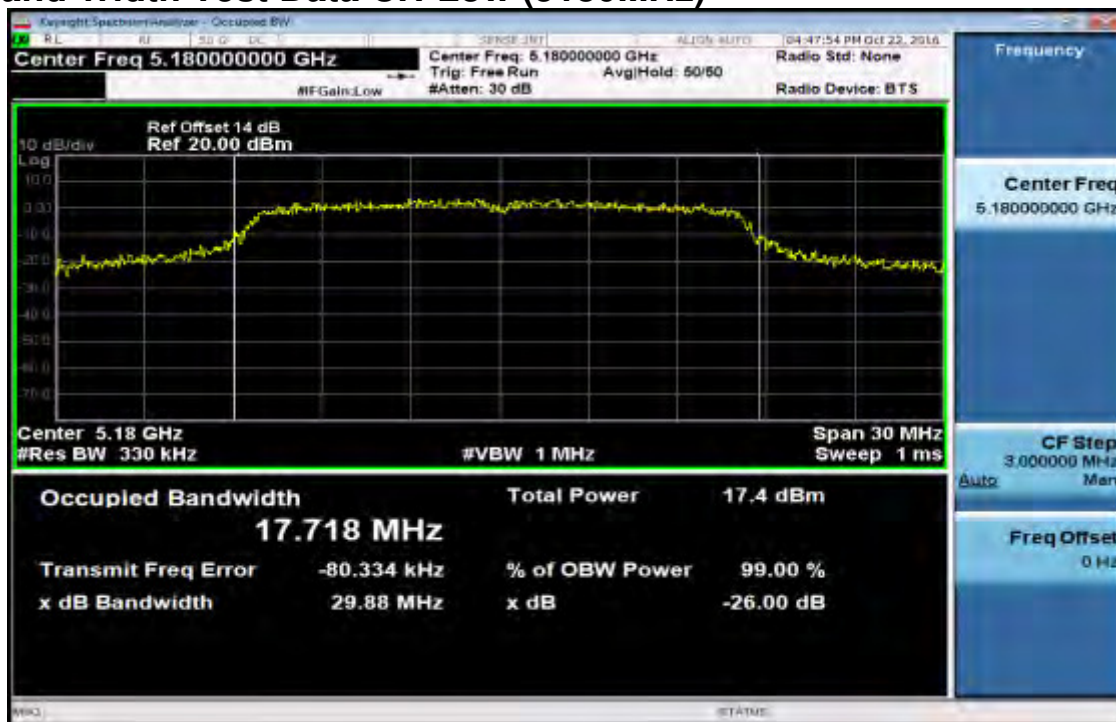
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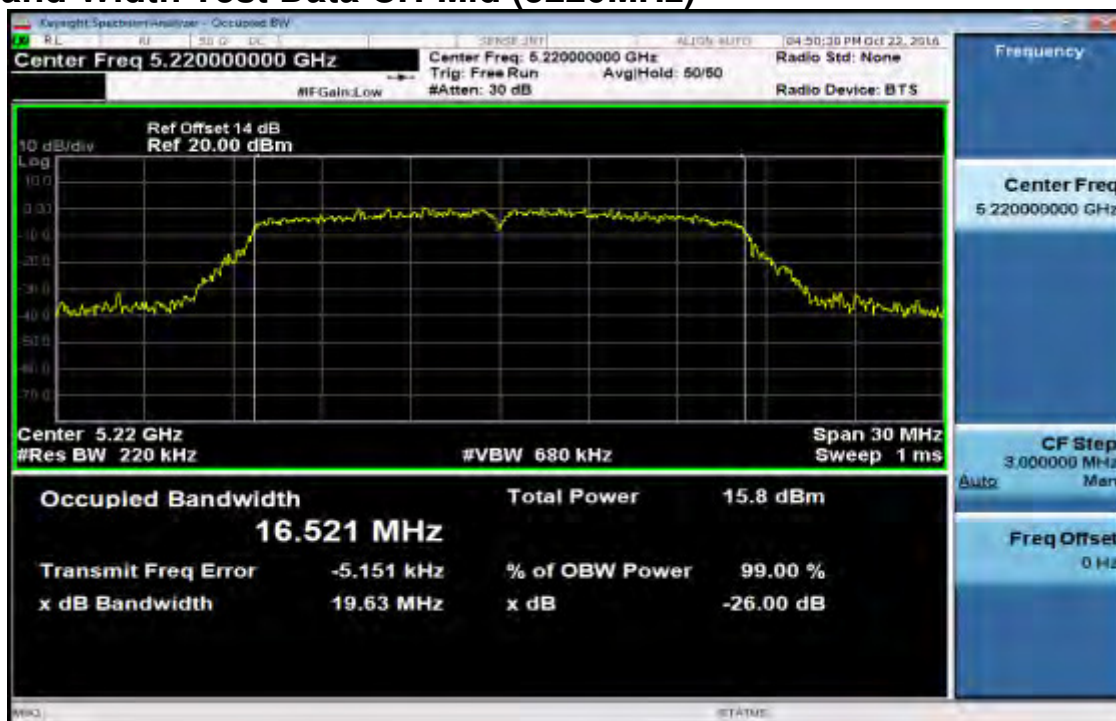
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802.11a, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Low (5180MHz)



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



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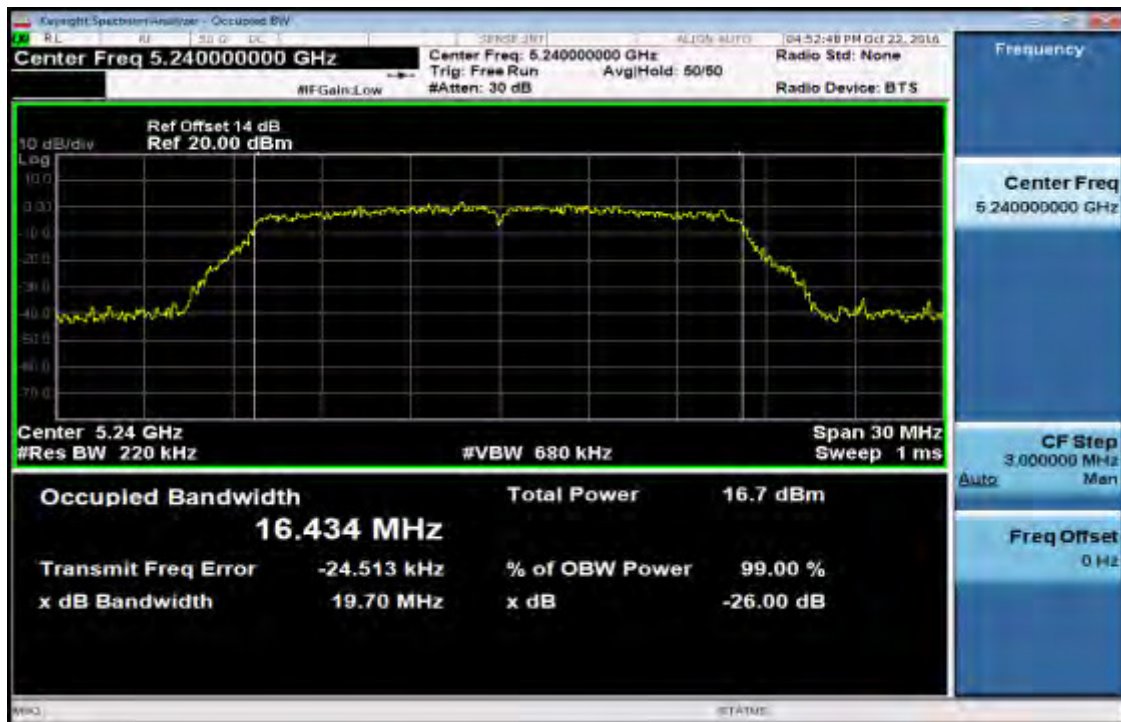
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26dB Band Width Test Data CH-High (5240MHz)



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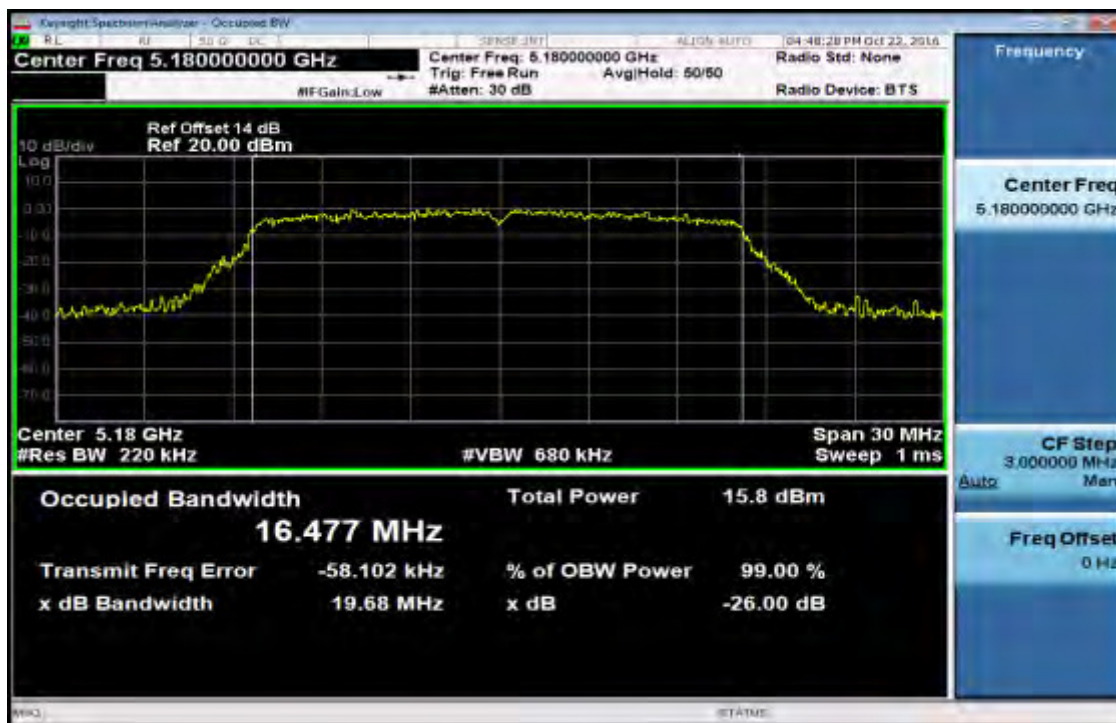
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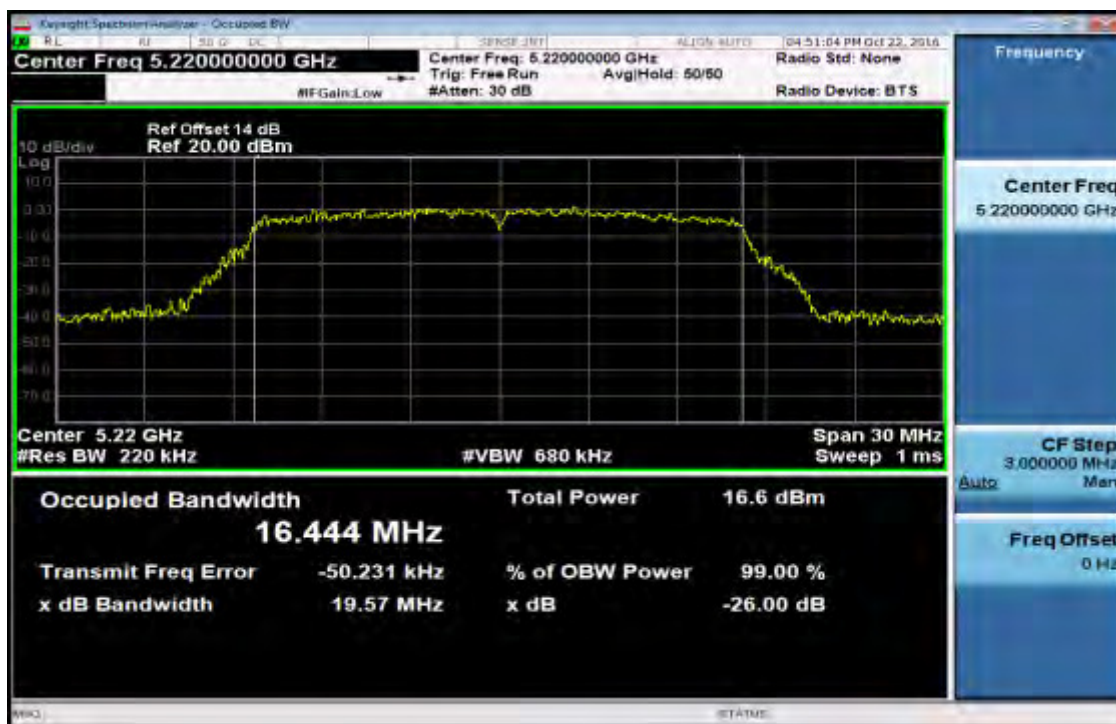
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802.11a, 5150~5250 MHz (Aux3)

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



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



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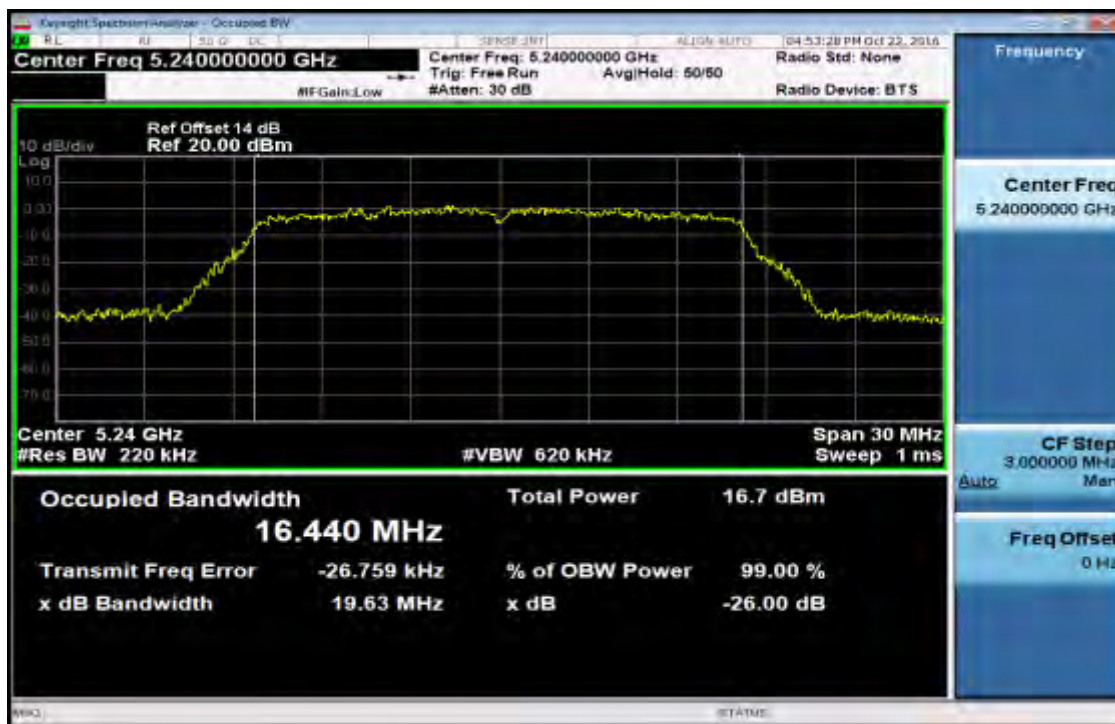
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26dB Band Width Test Data CH-High (5240MHz)



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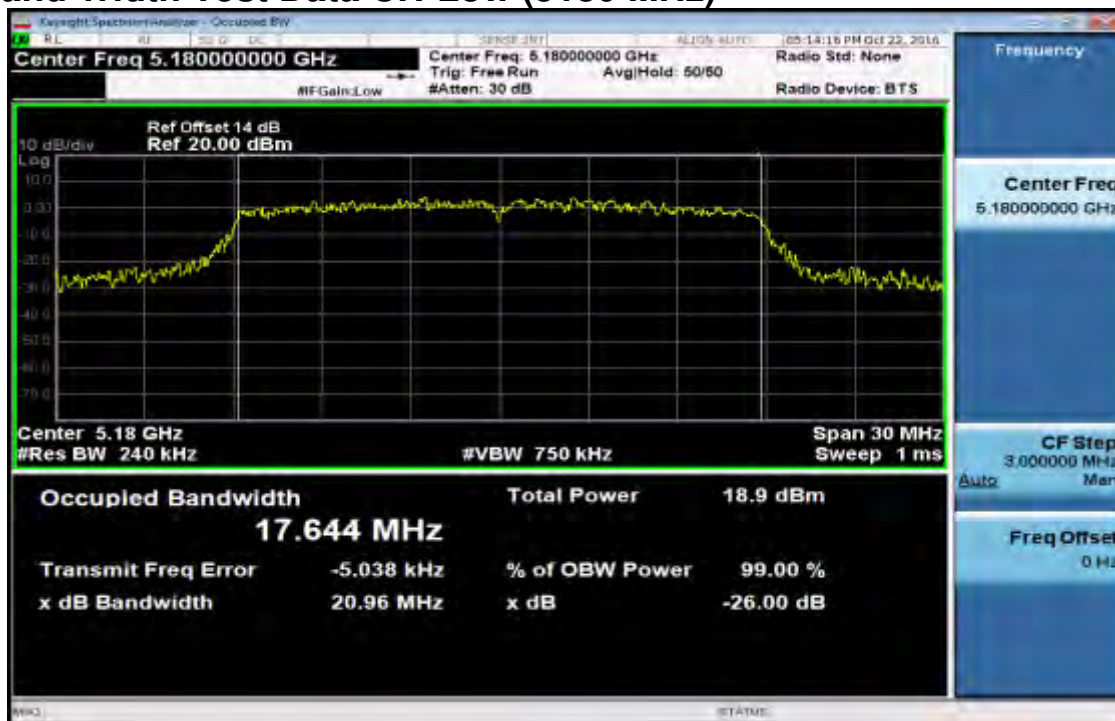
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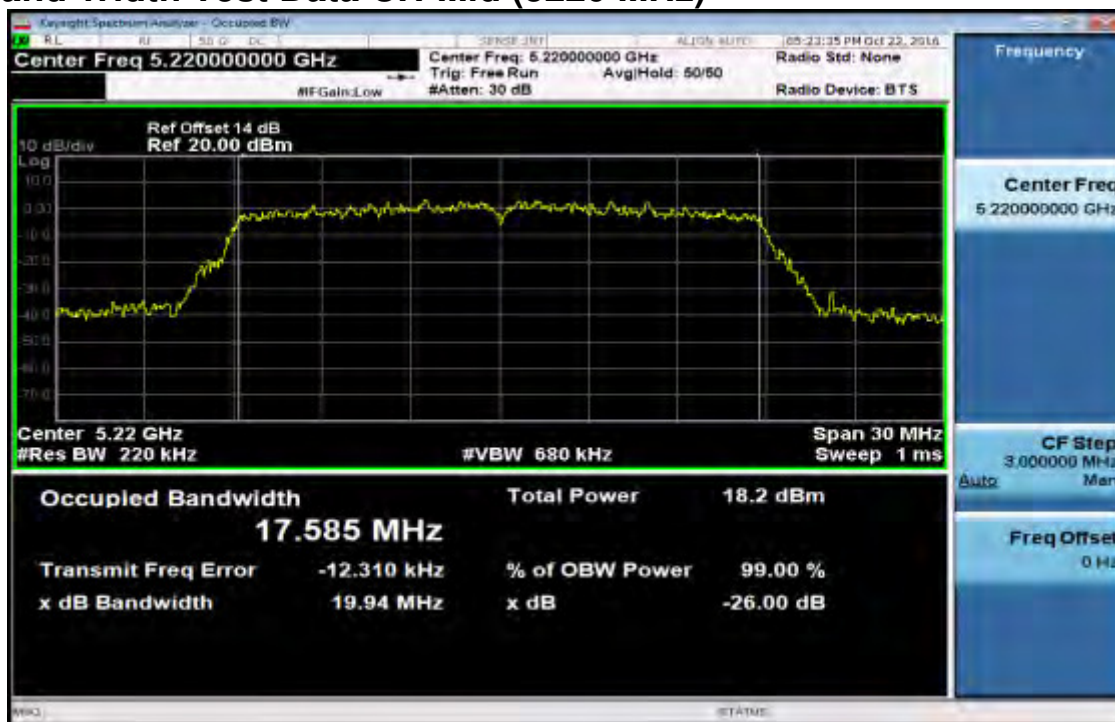
CDD Mode:

802.11n HT20, 5150~5250 MHz (Main)

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



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



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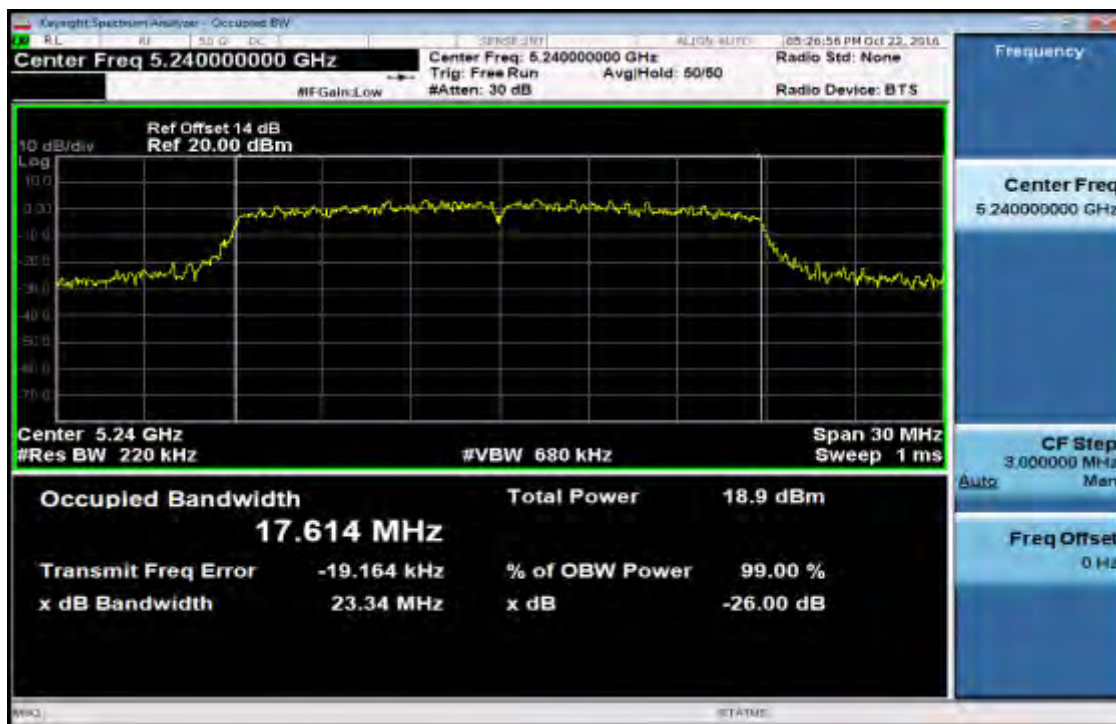
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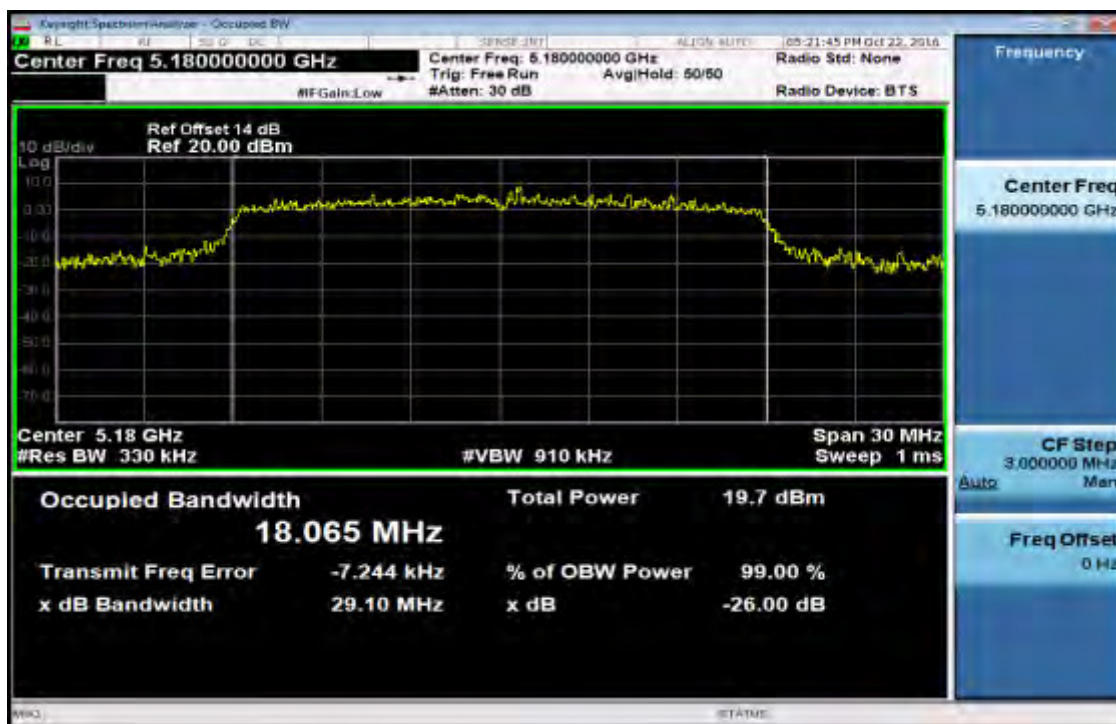
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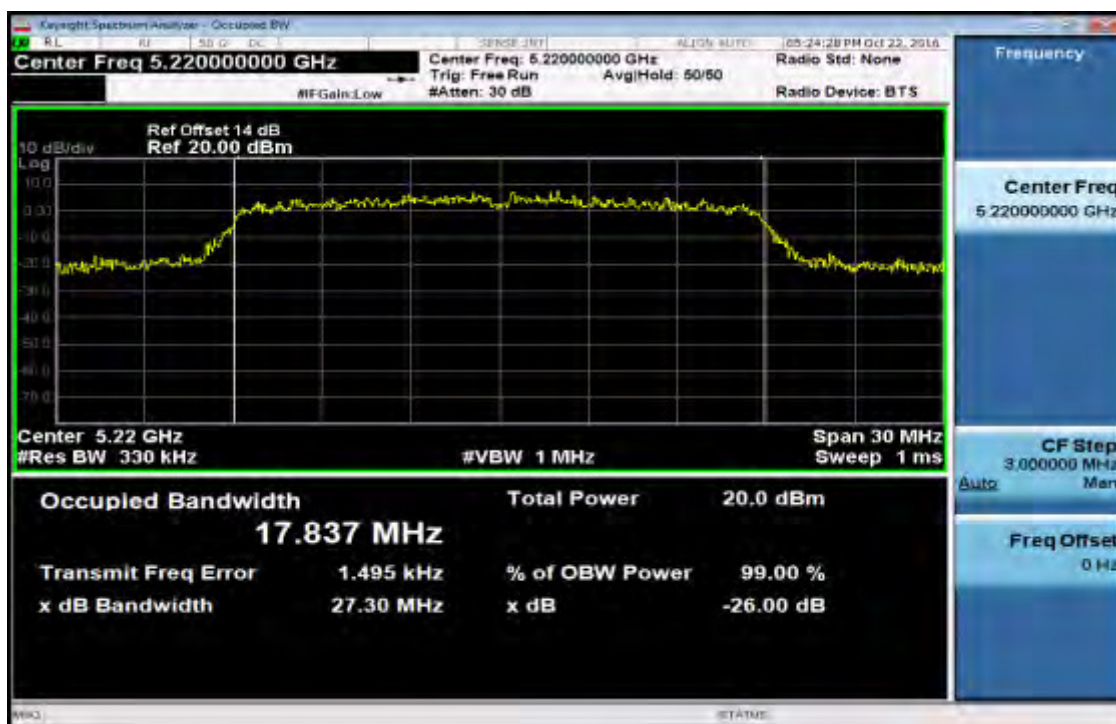
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802.11n HT20, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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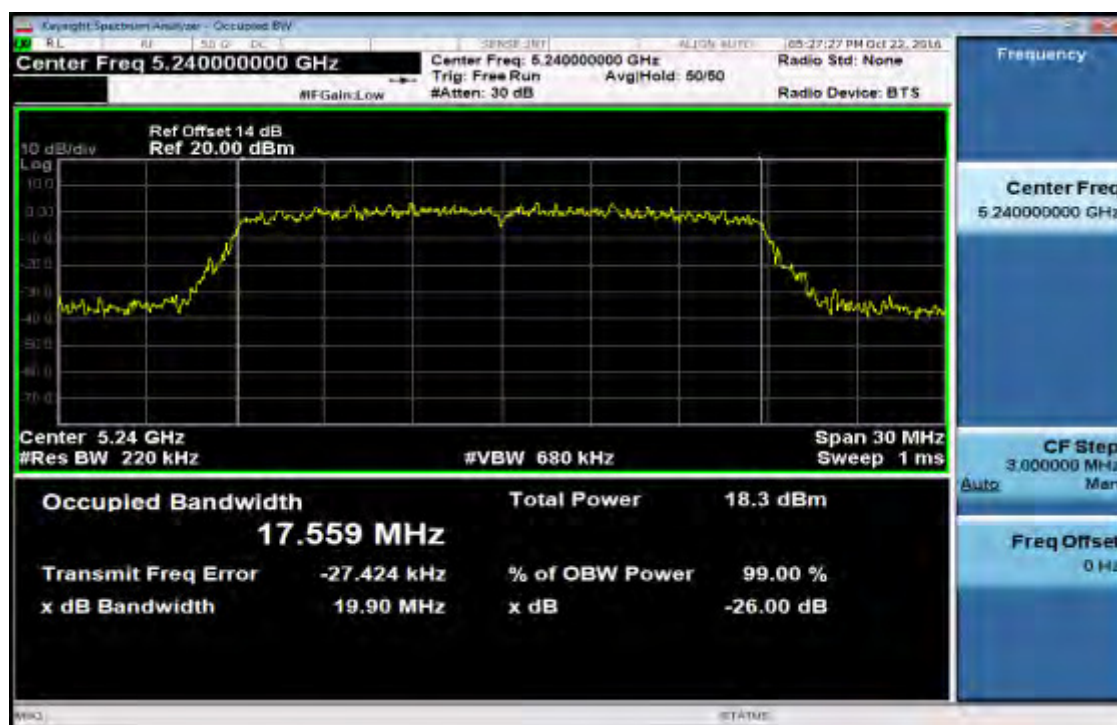
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26dB Band Width Test Data CH-High (5240 MHz)



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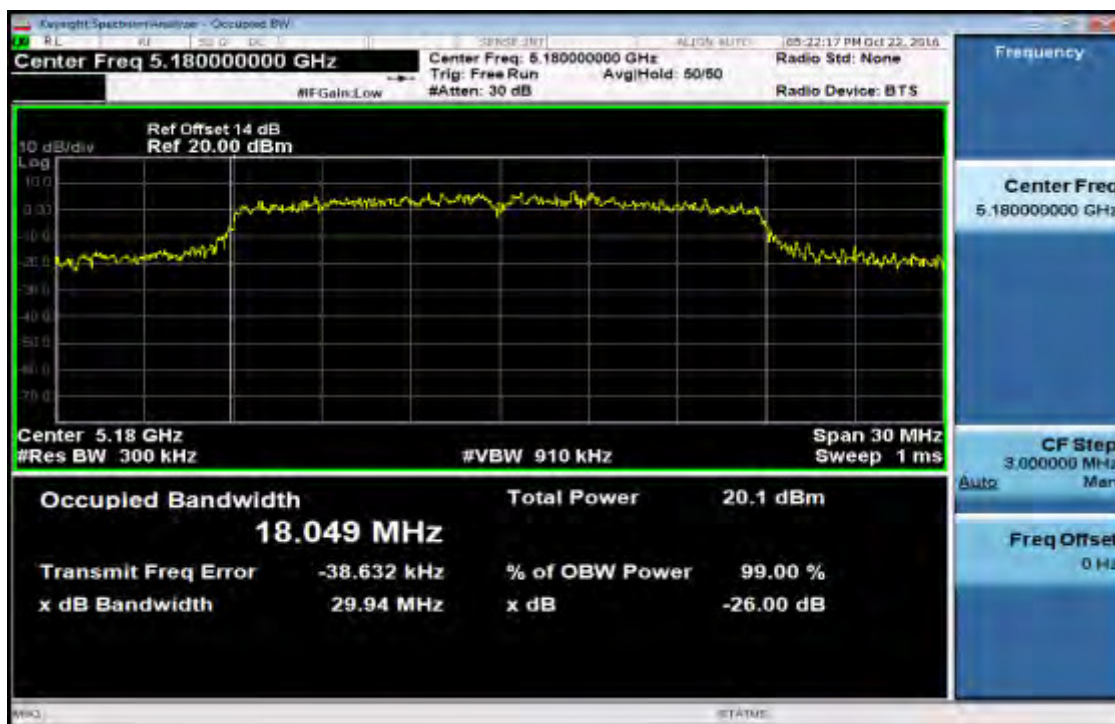
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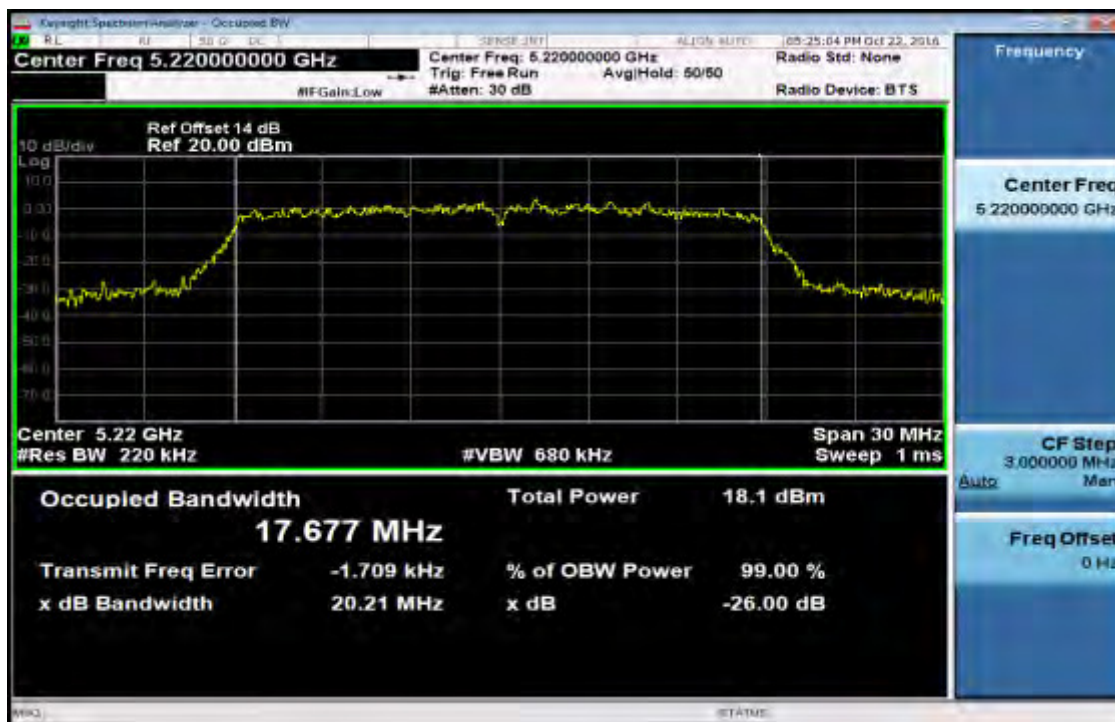
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802.11n HT20, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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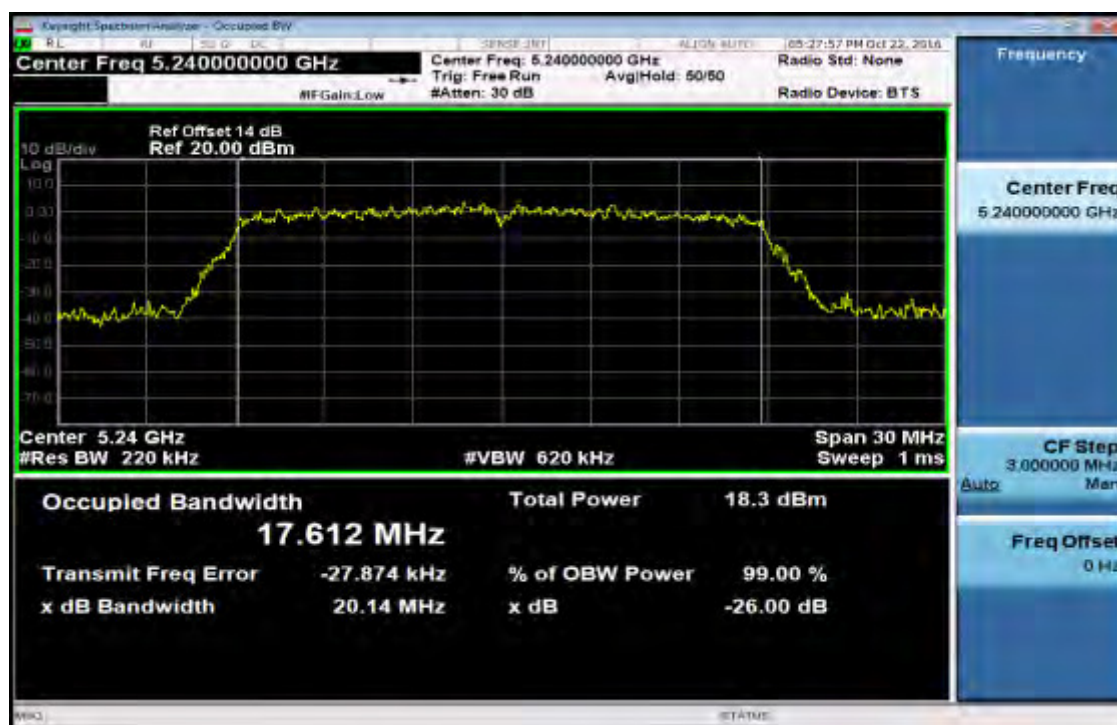
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26dB Band Width Test Data CH-High (5240 MHz)



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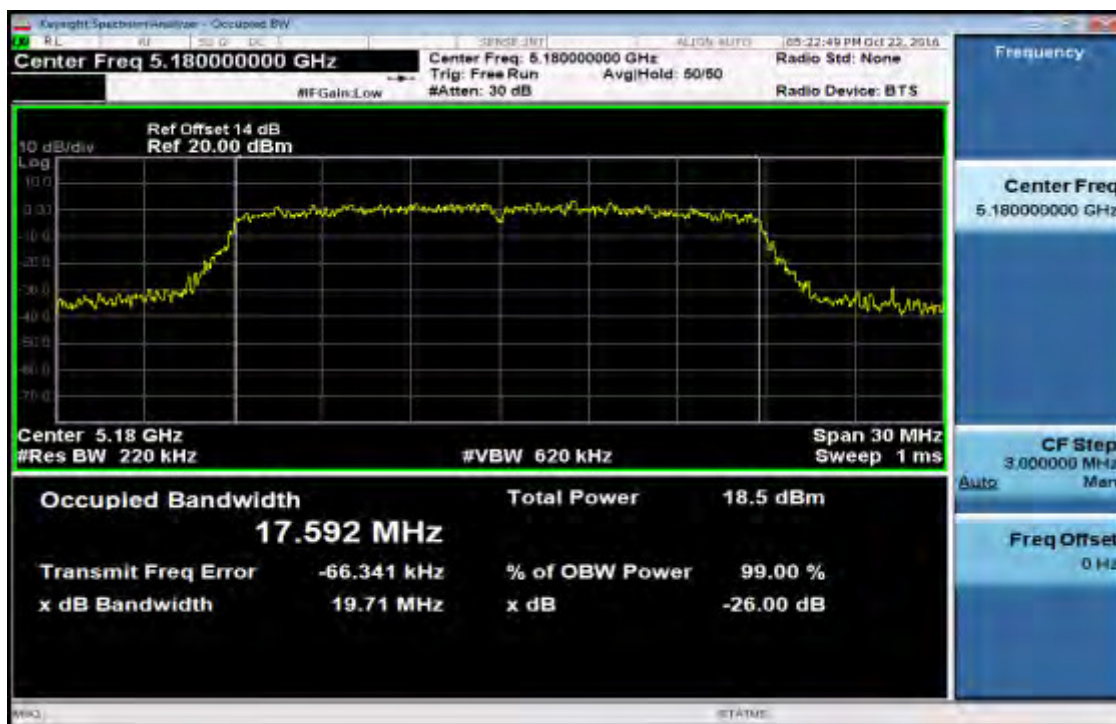
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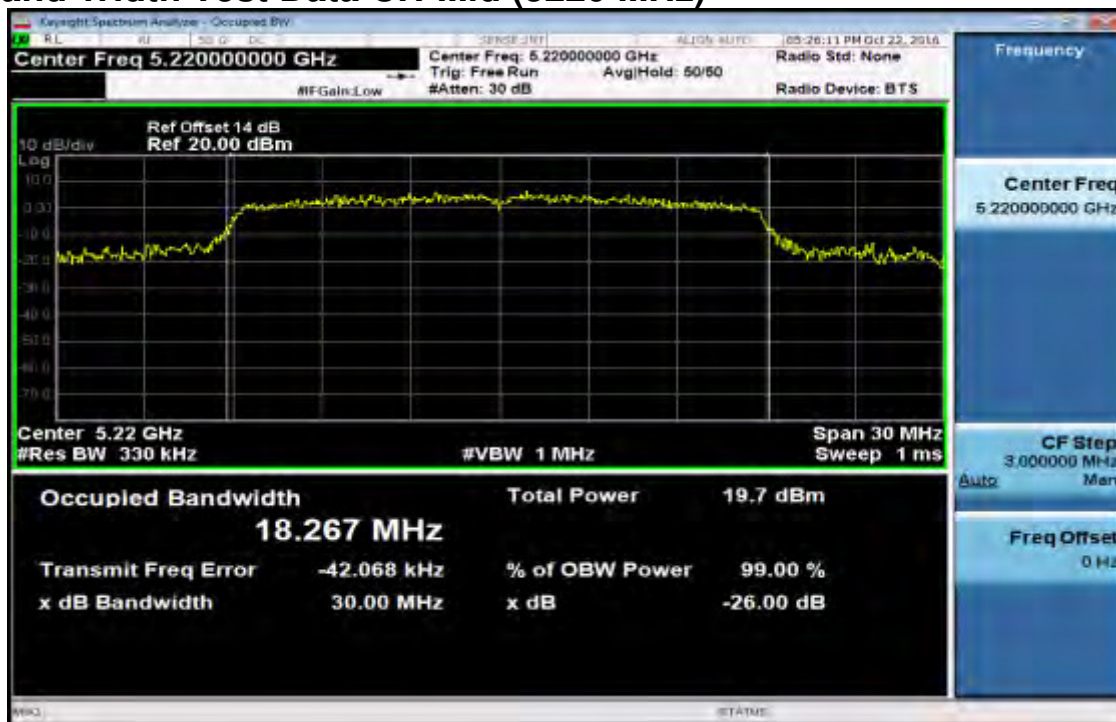
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802.11n HT20, 5150~5250 MHz (Aux3) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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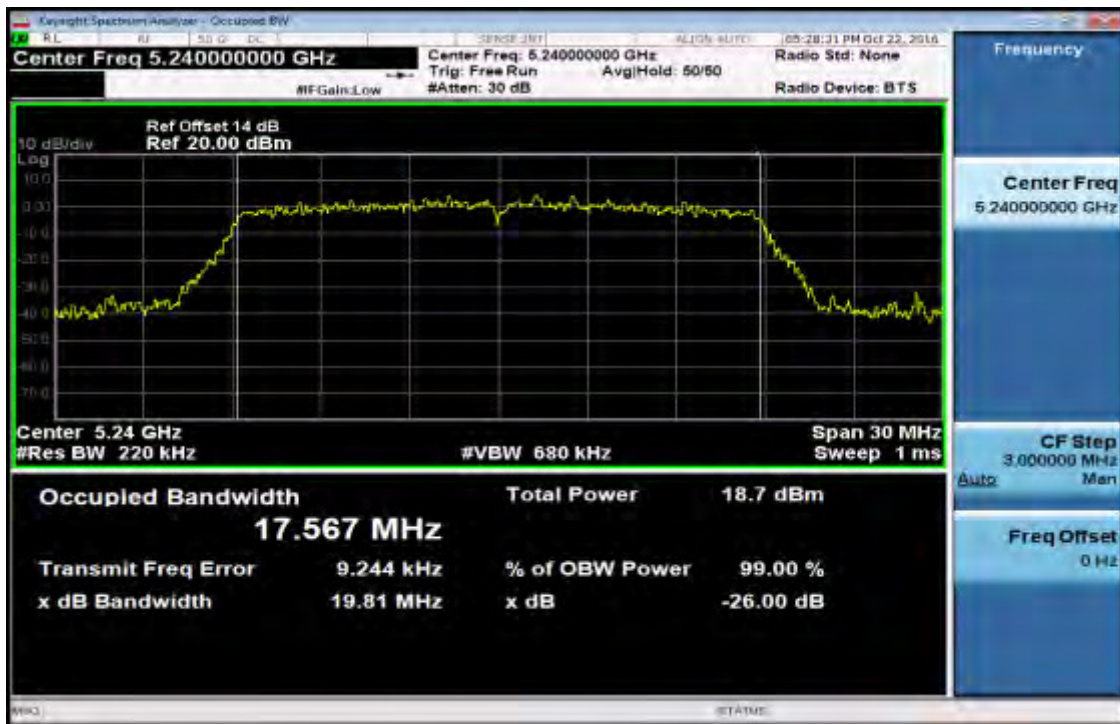
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26dB Band Width Test Data CH-High (5240 MHz)



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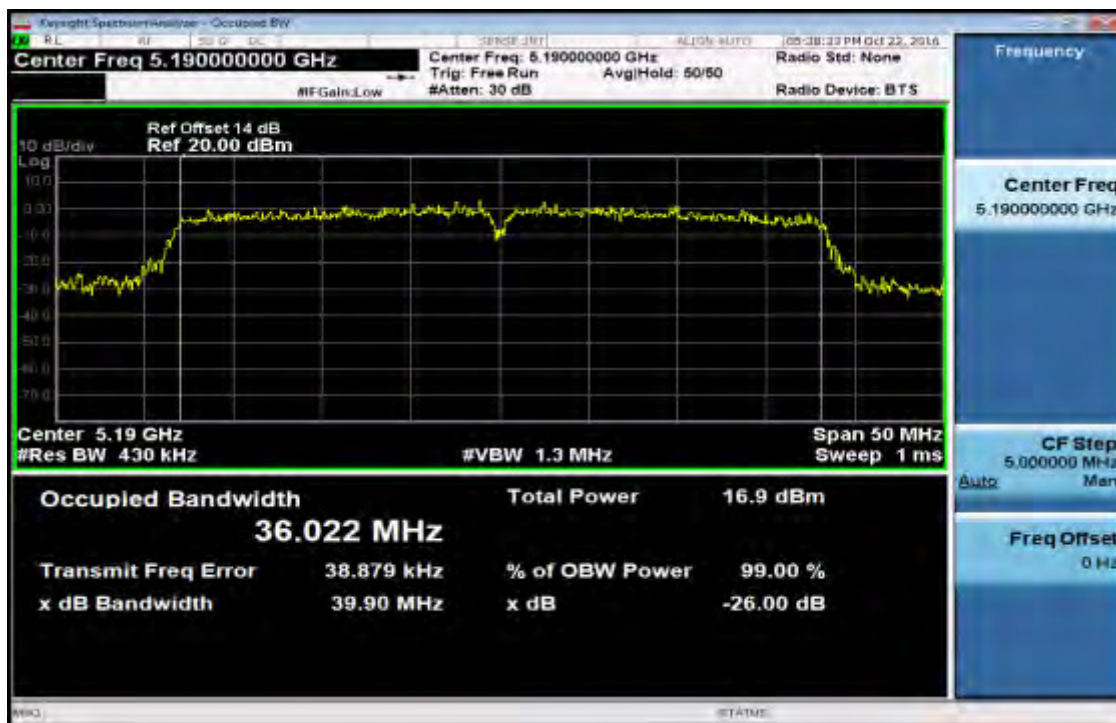
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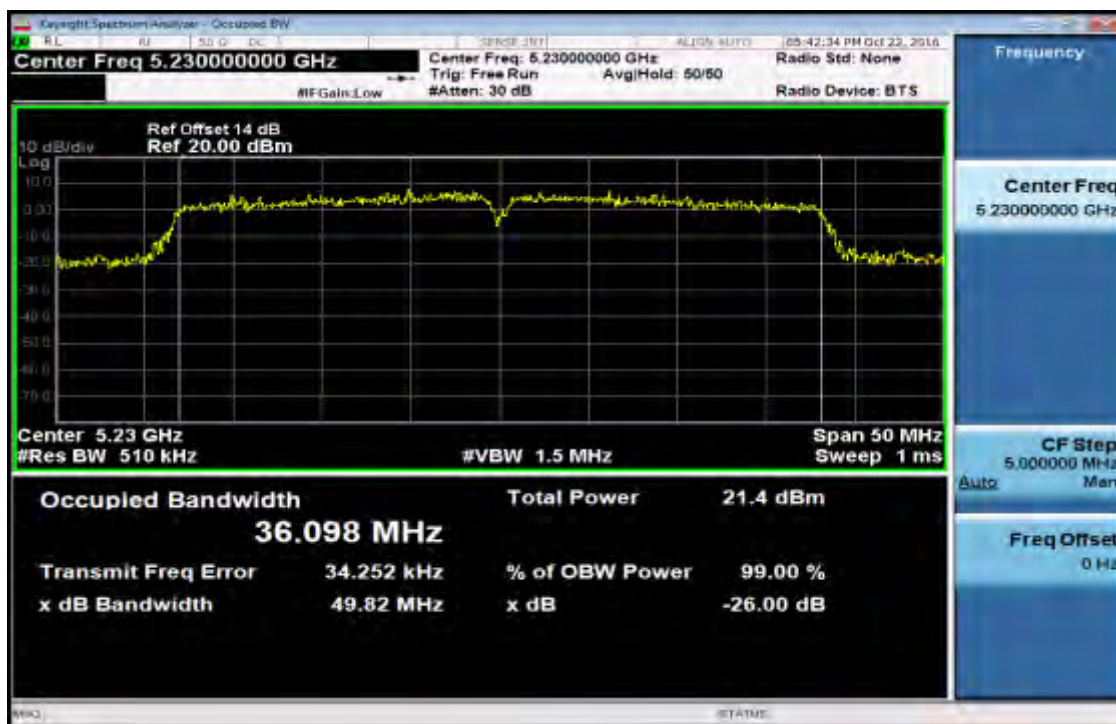
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802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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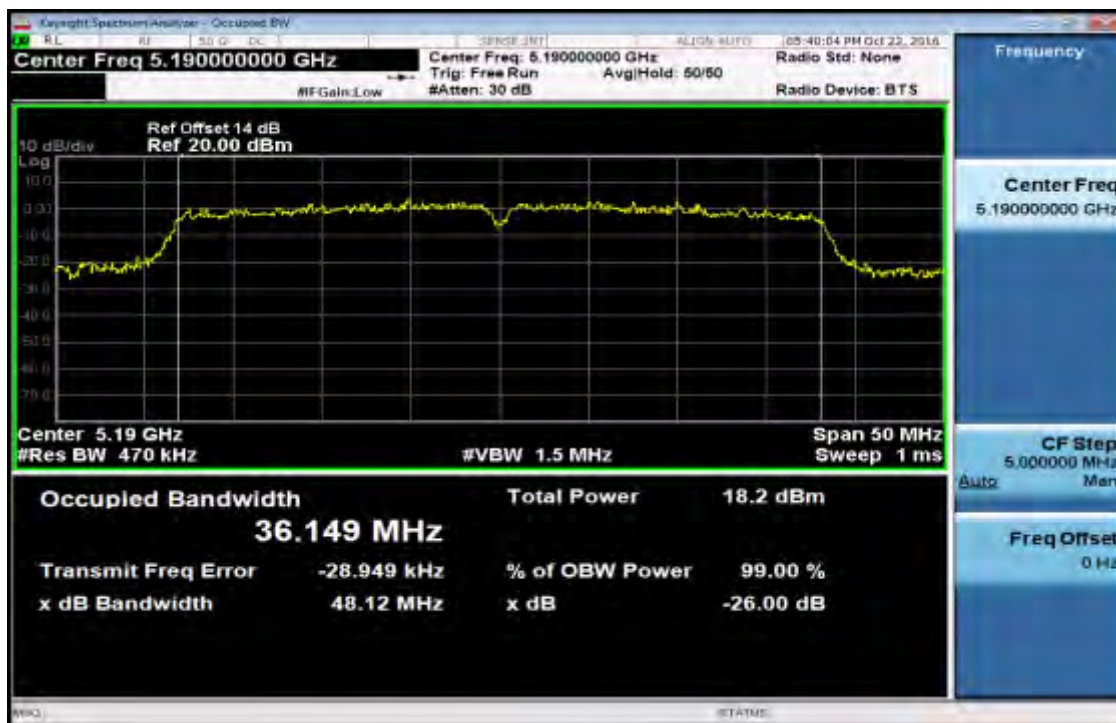
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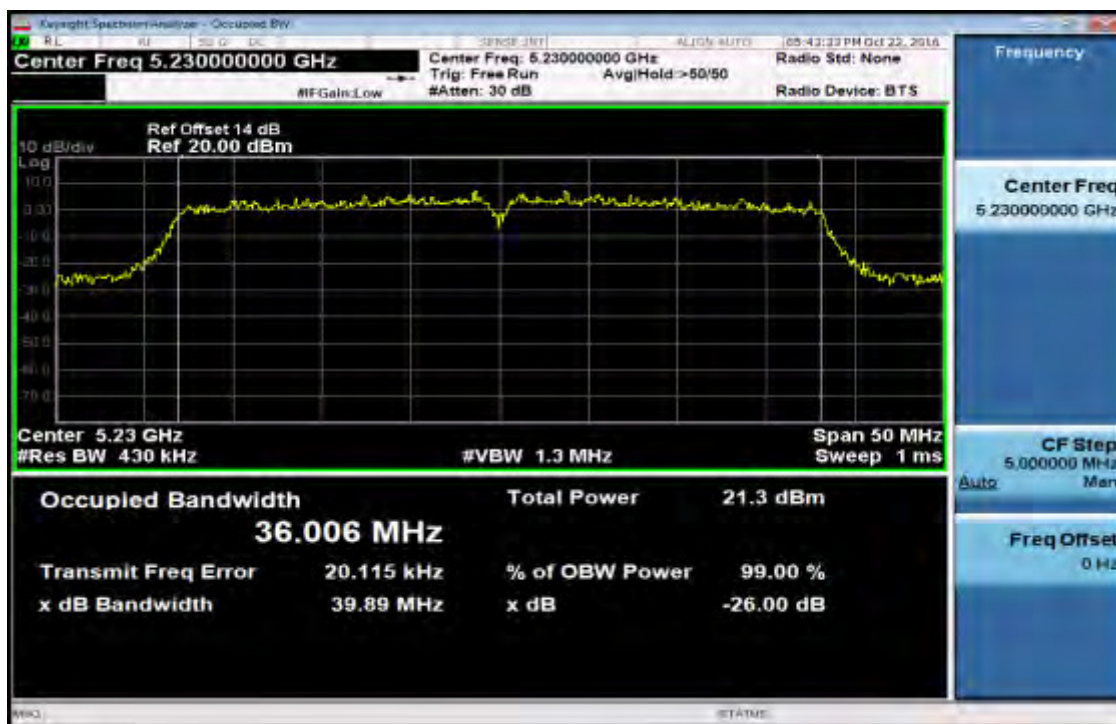
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802.11n HT40, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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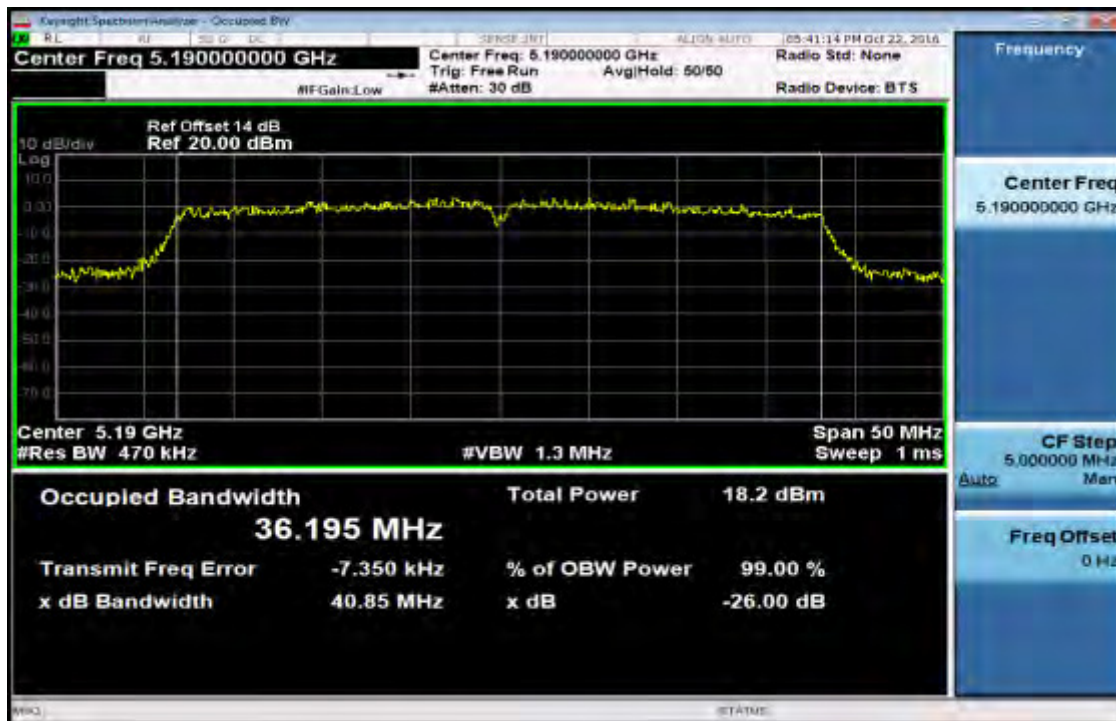
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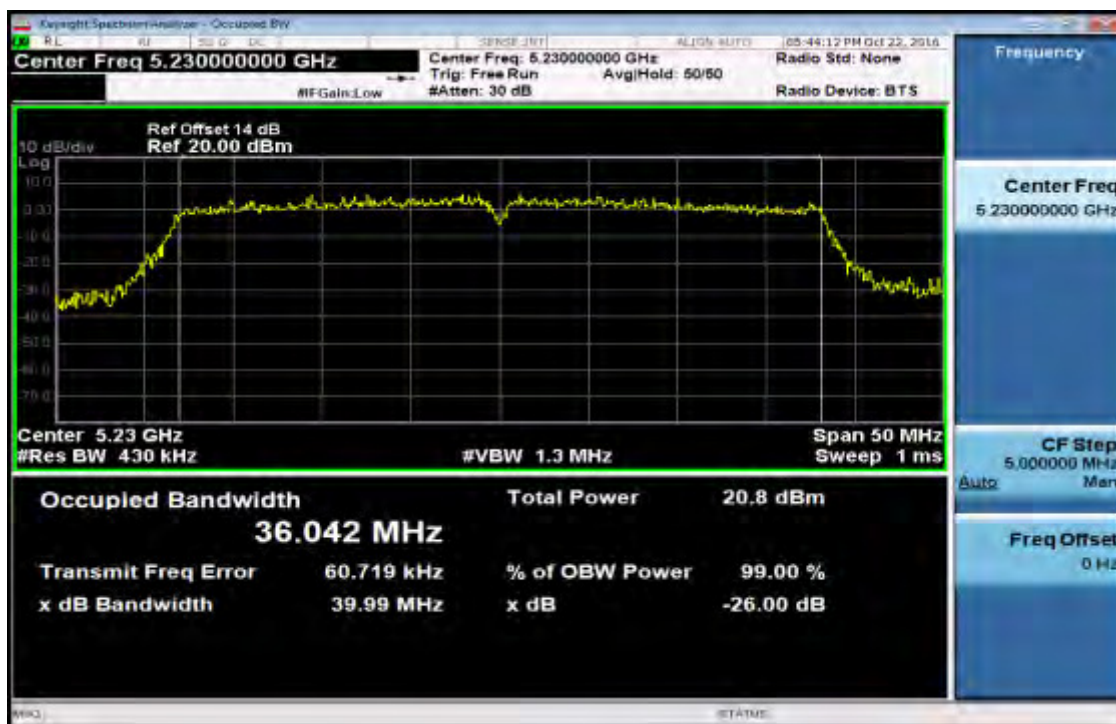
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802.11n HT40, 5150~5250 MHz (Aux2) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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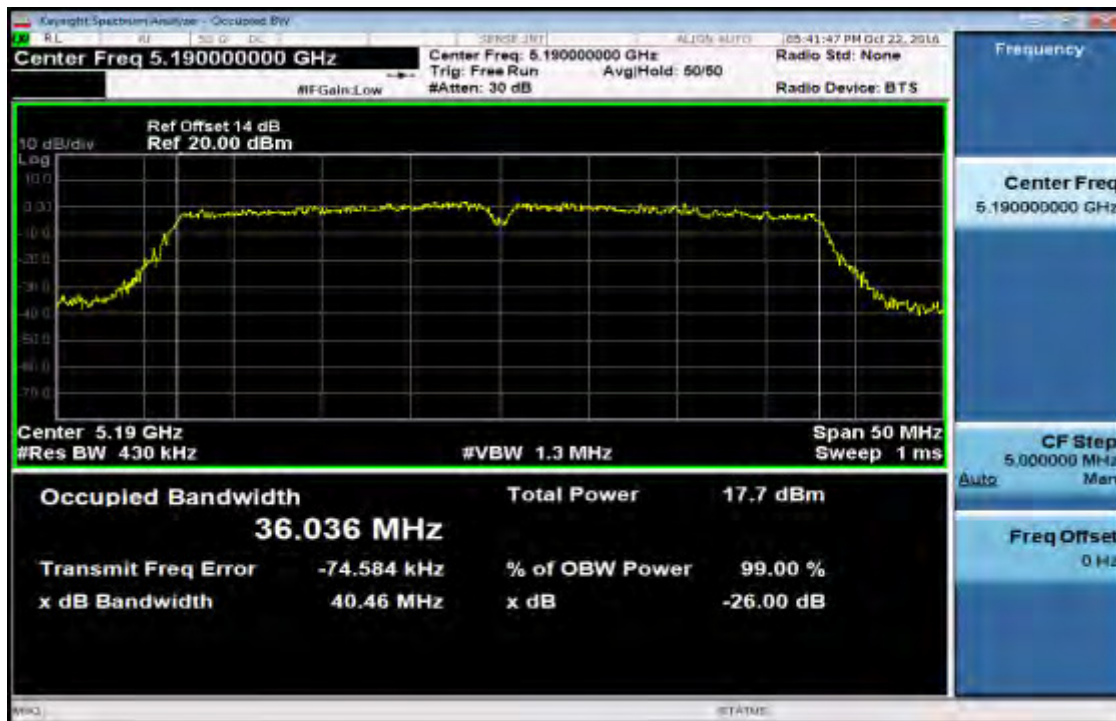
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26dB Band Width Test Data CH-High (5230 MHz)



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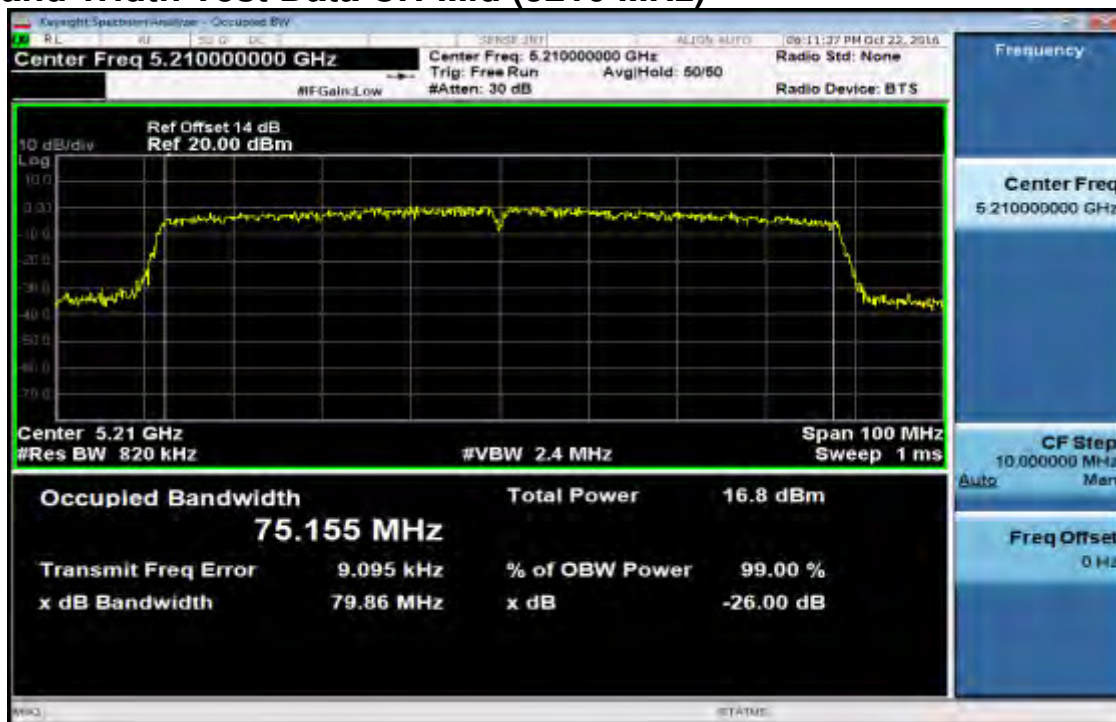
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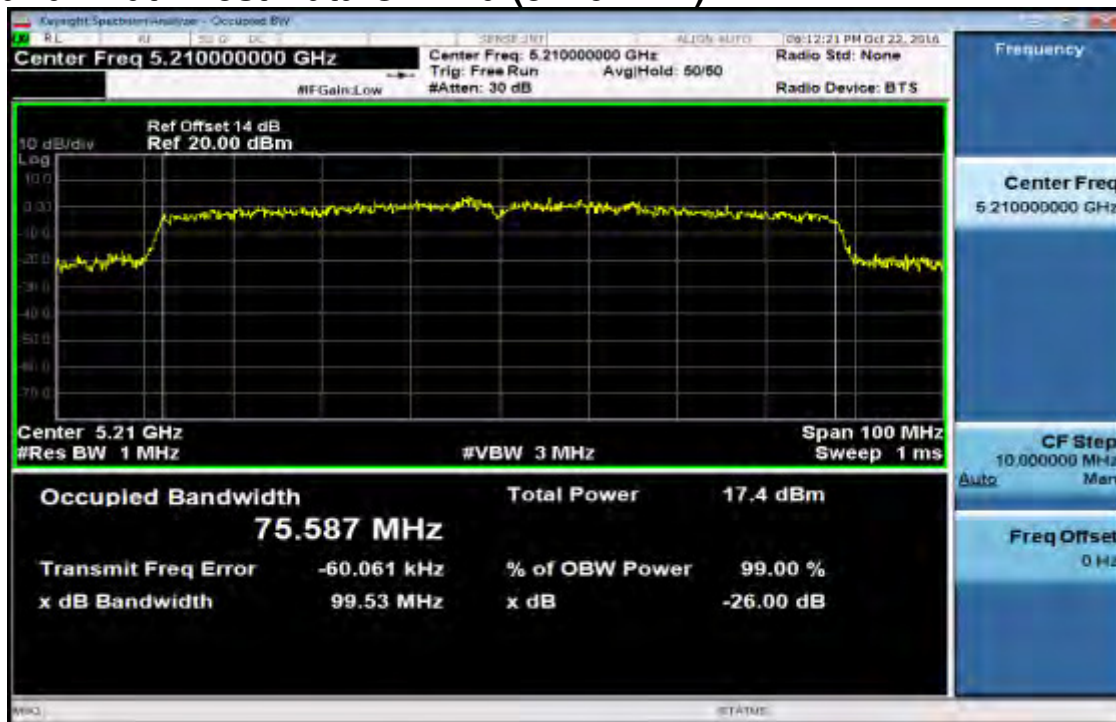
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



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



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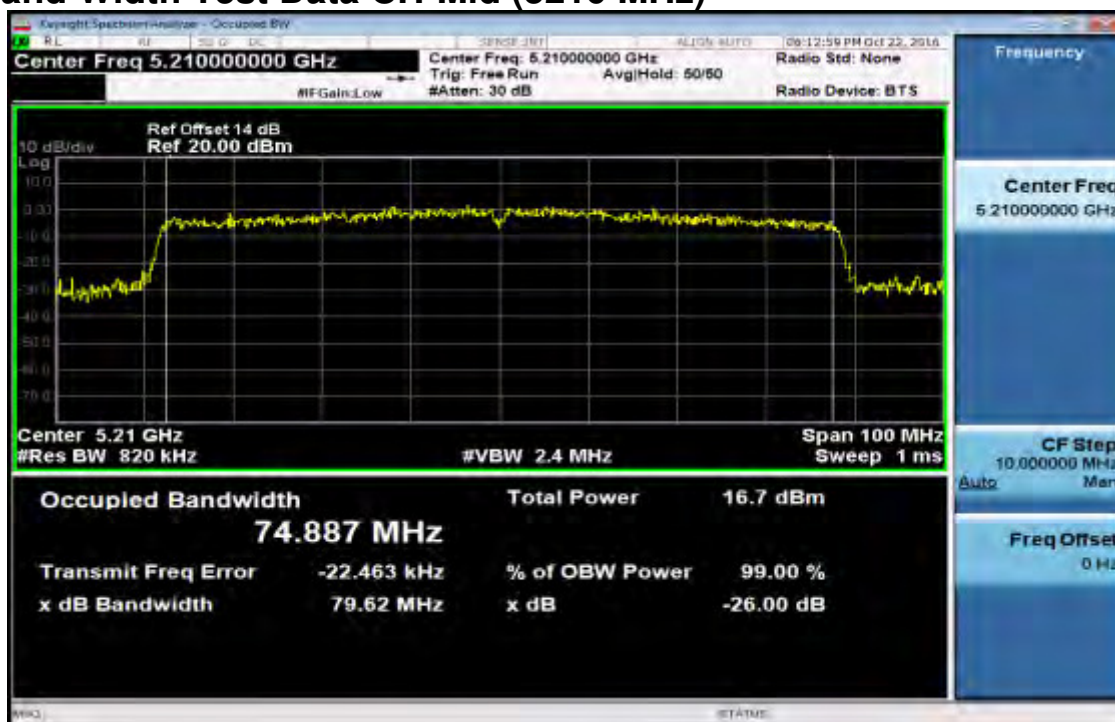
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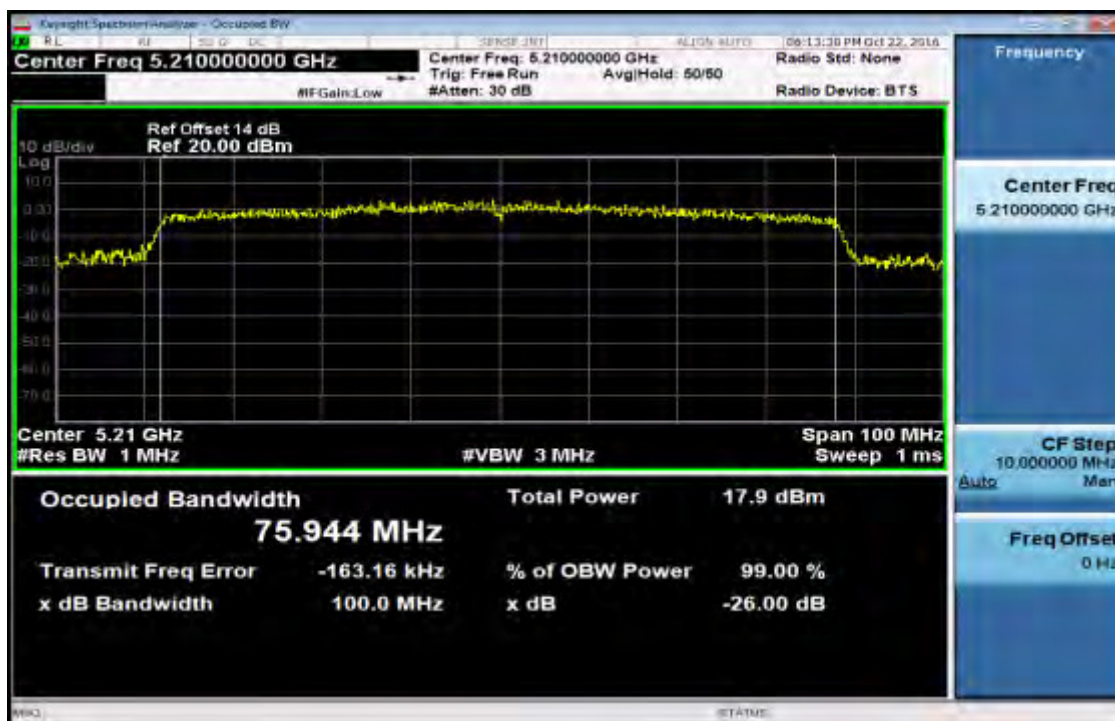
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802.11ac VHT80, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux3)



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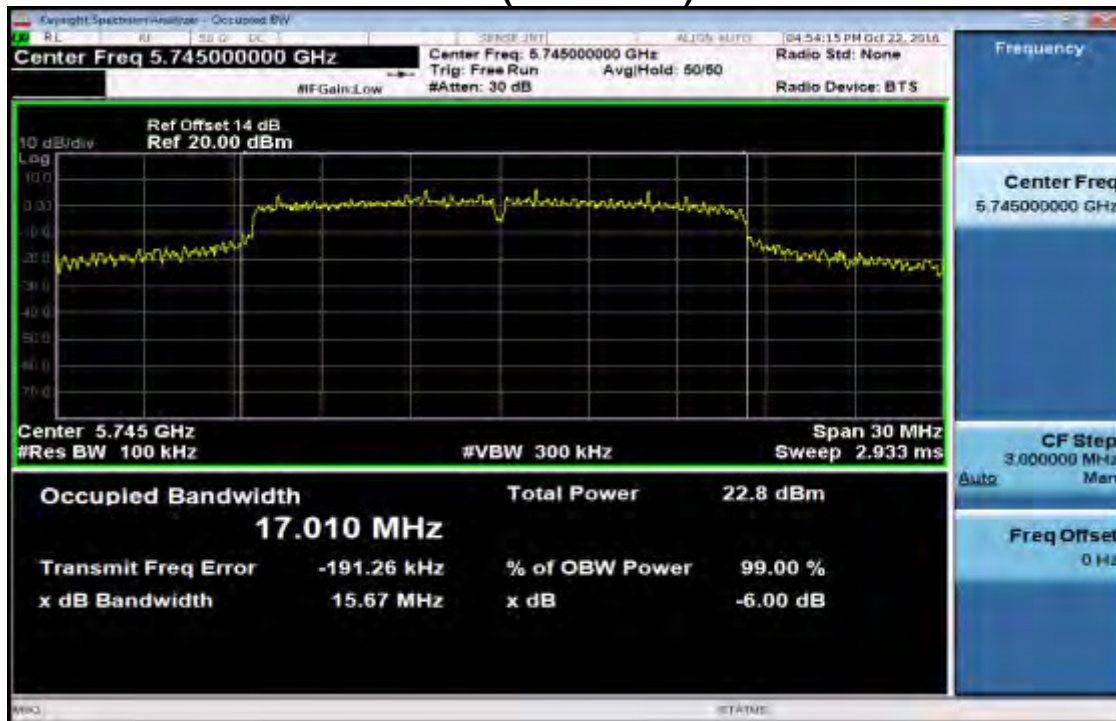
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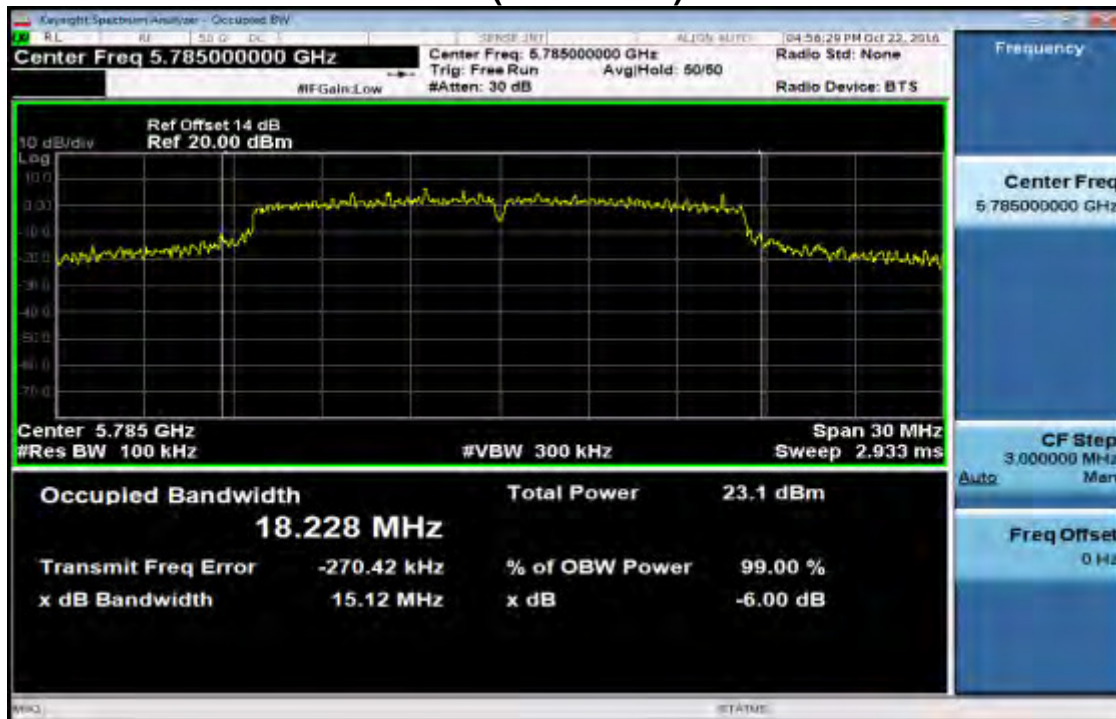
6dB Band Width measure with Peak detector for FCC

802.11a, 5725~5850 MHz (Main)

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



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



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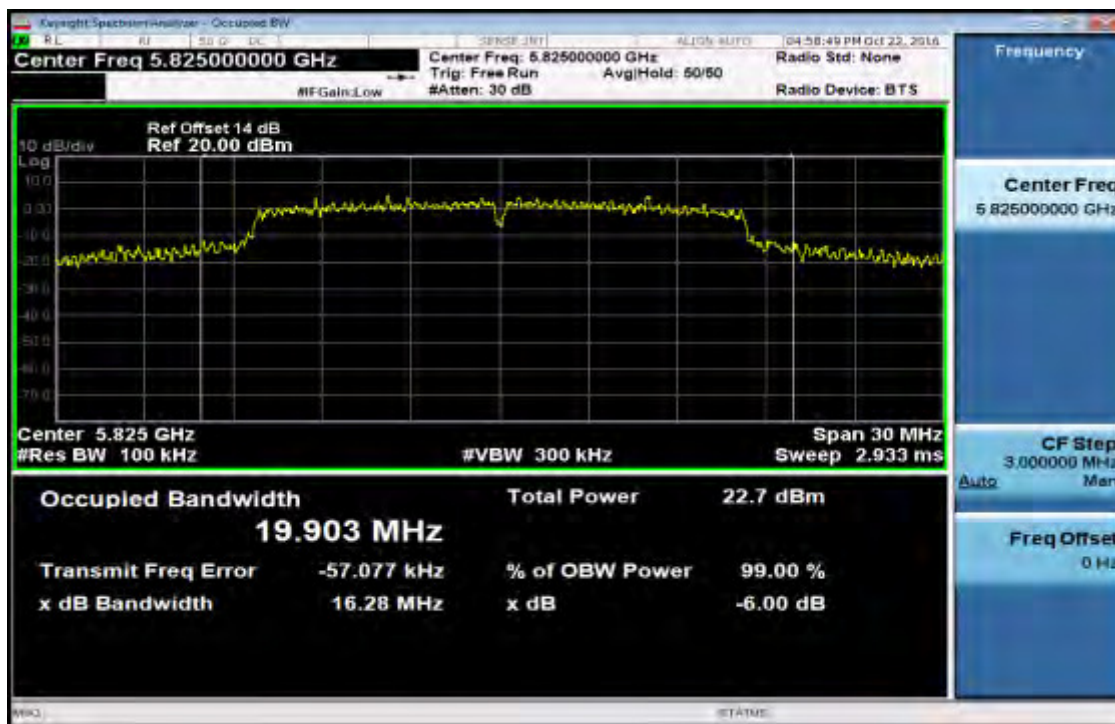
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6dB Band Width Test Data CH-High (5825 MHz)



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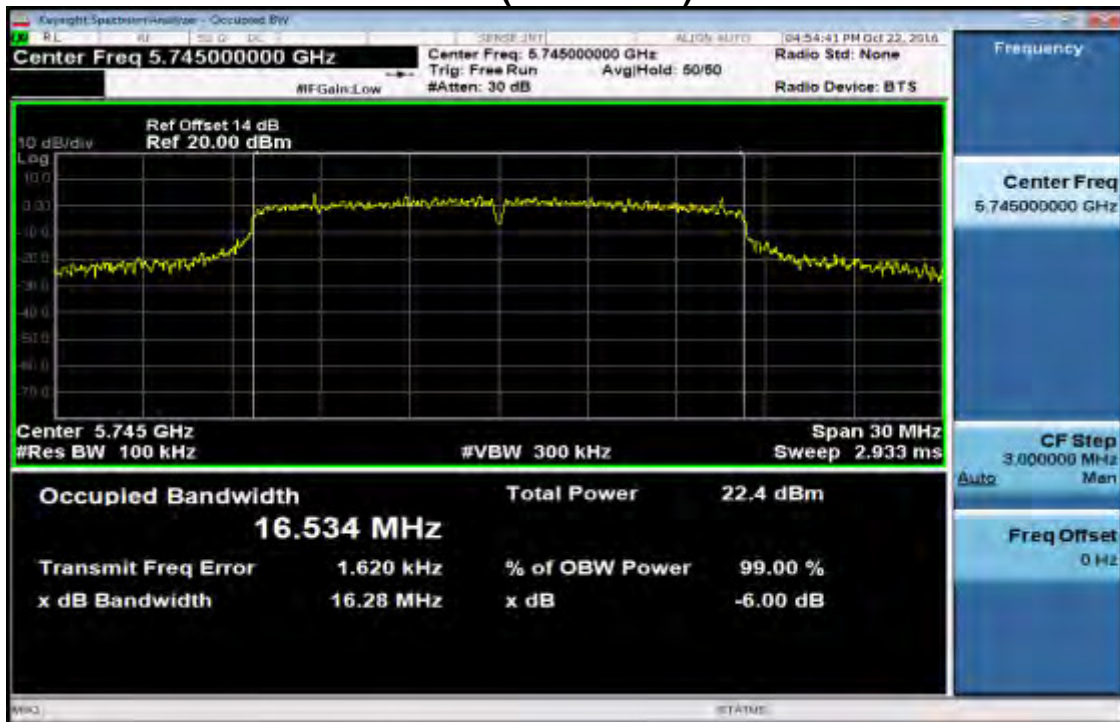
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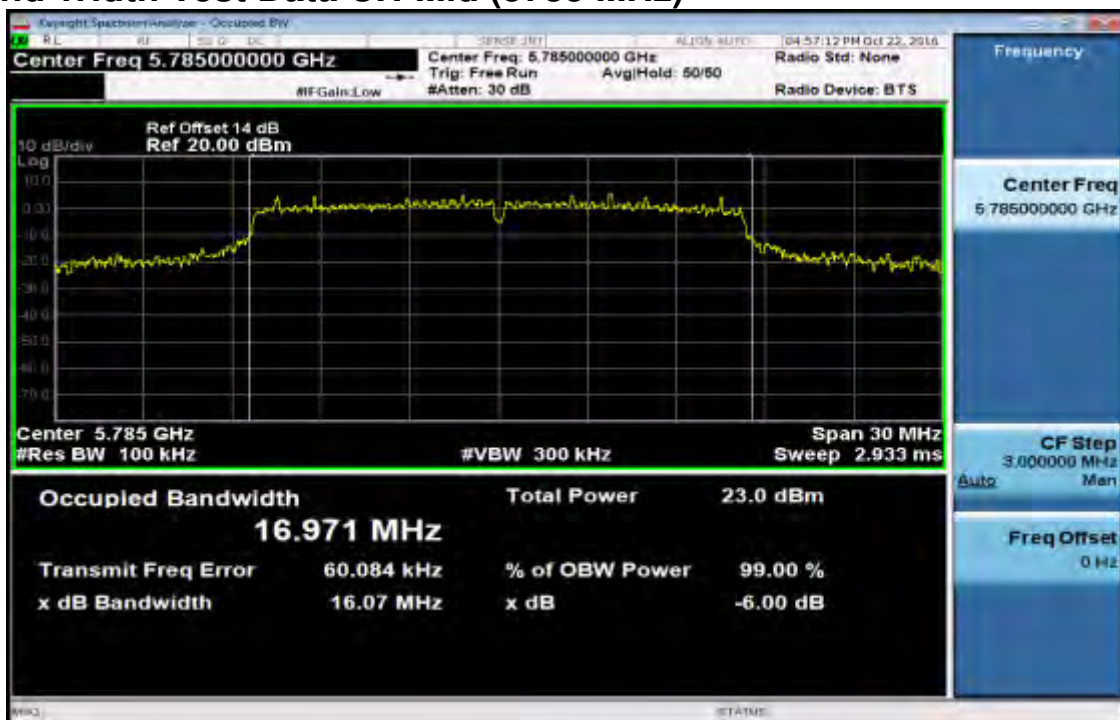
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802.11a, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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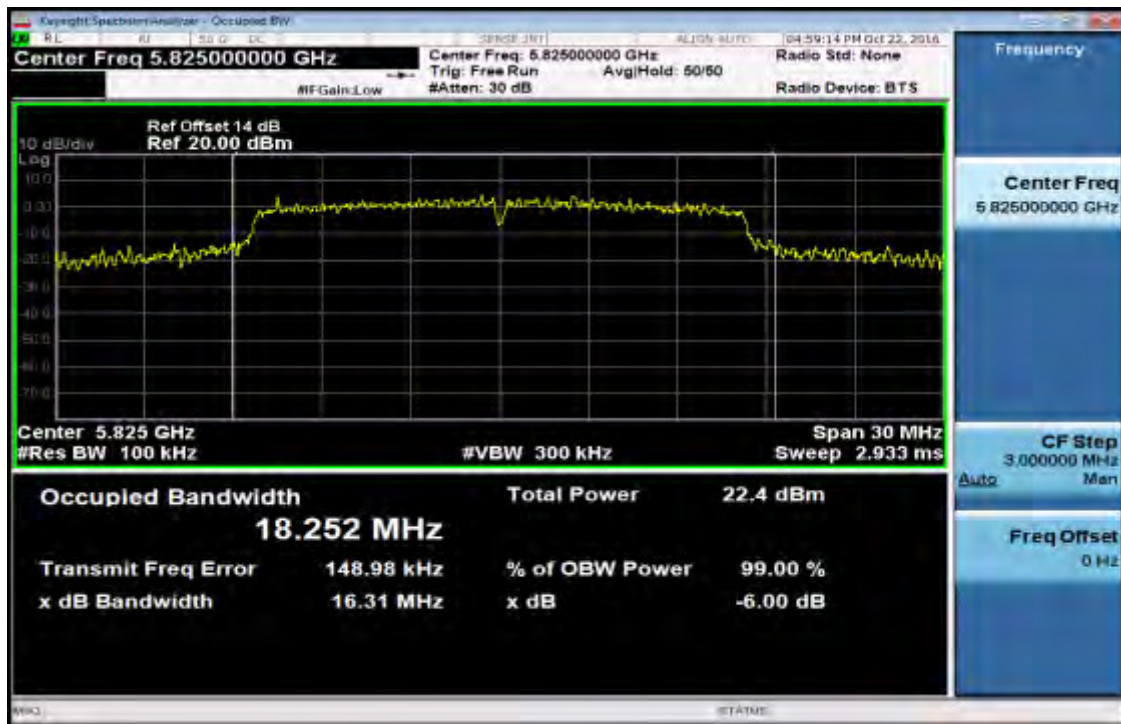
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6dB Band Width Test Data CH-High (5825 MHz)



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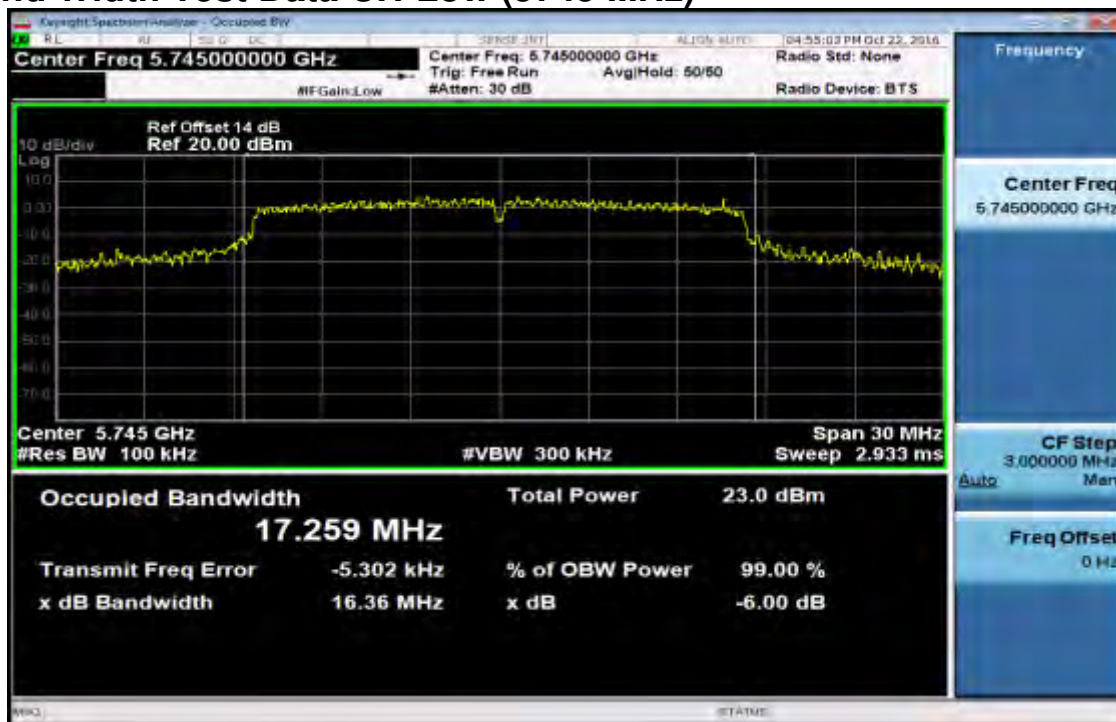
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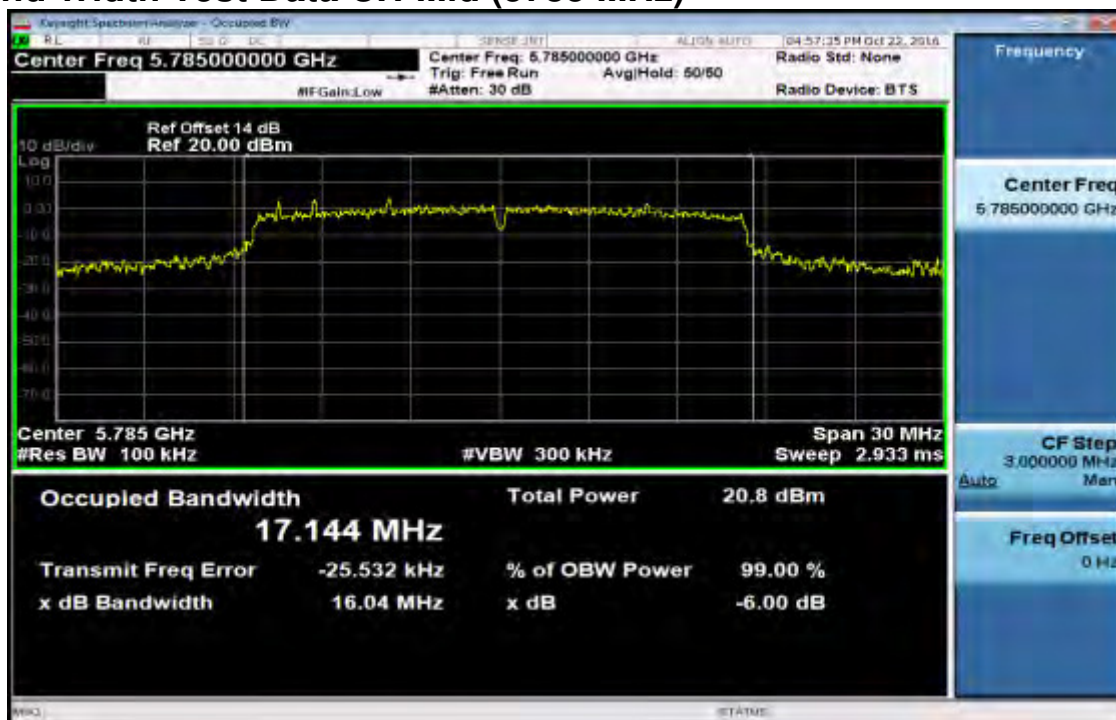
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802.11a, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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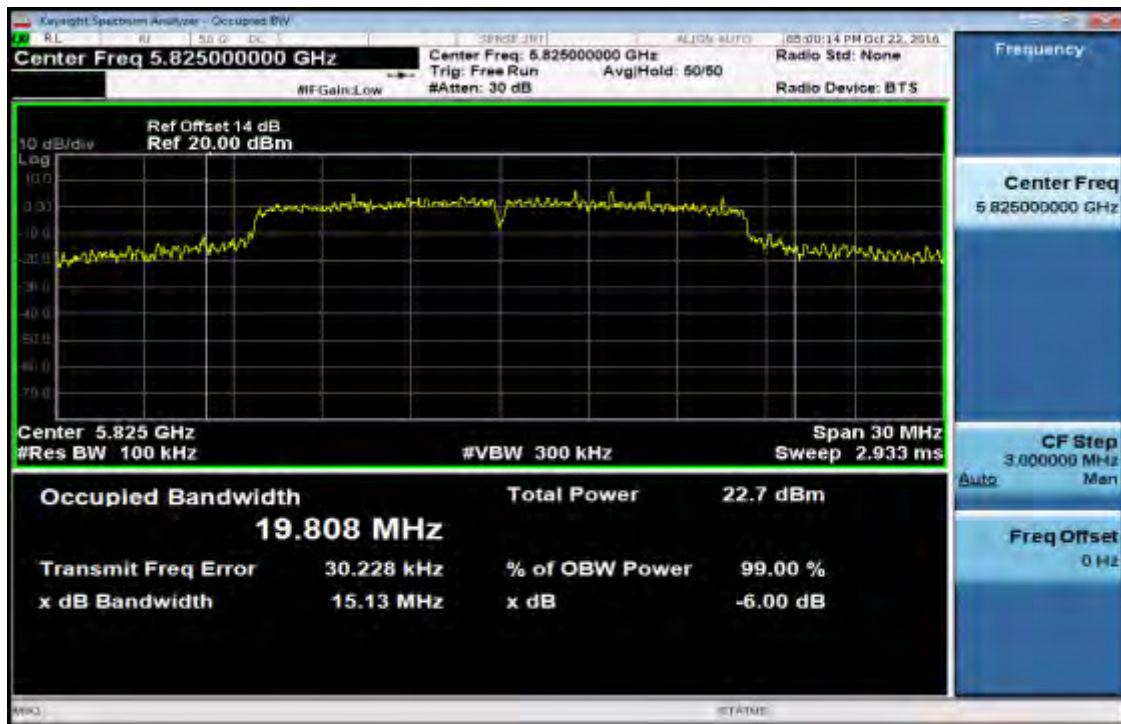
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6dB Band Width Test Data CH-High (5825 MHz)



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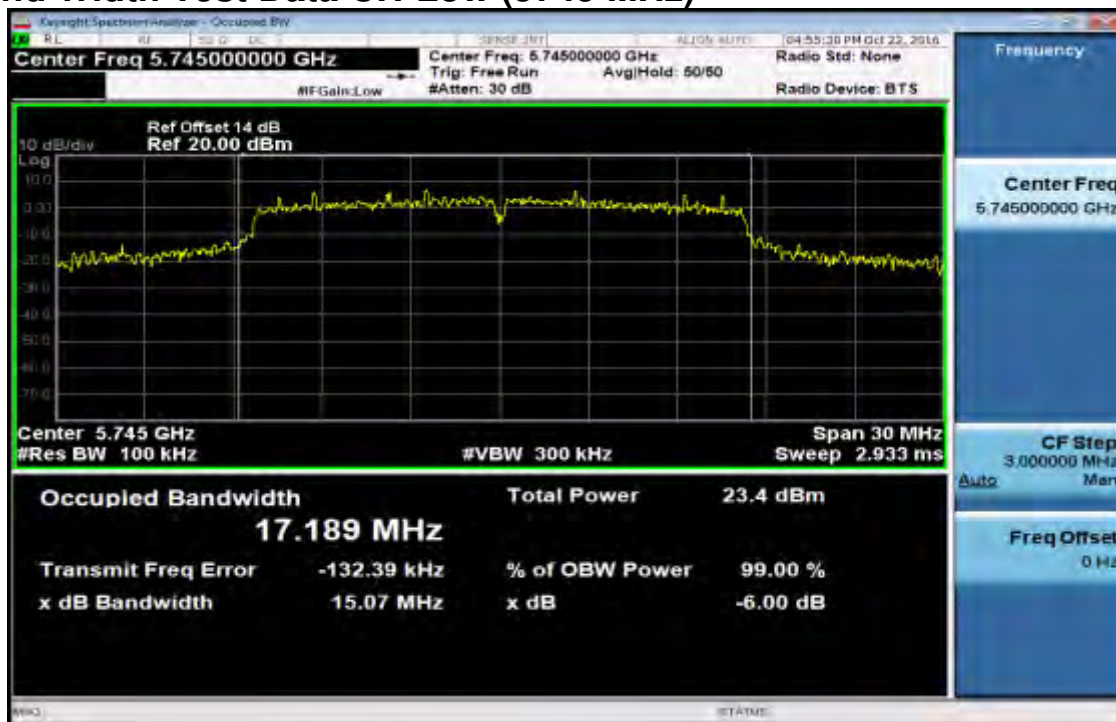
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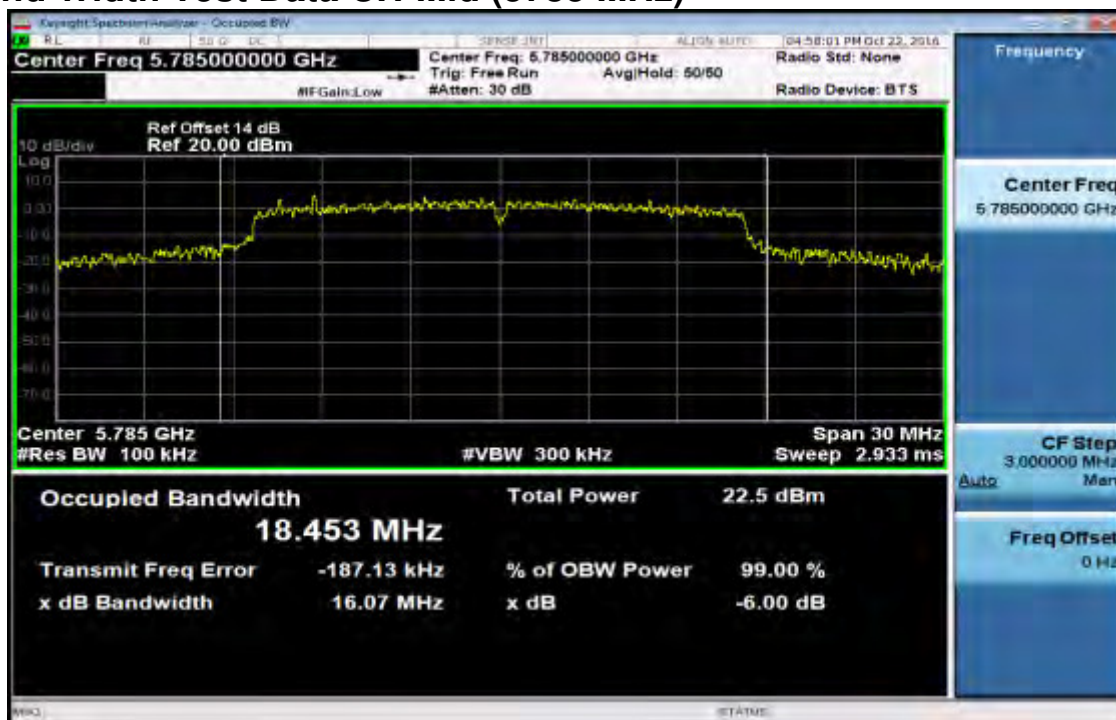
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802.11a, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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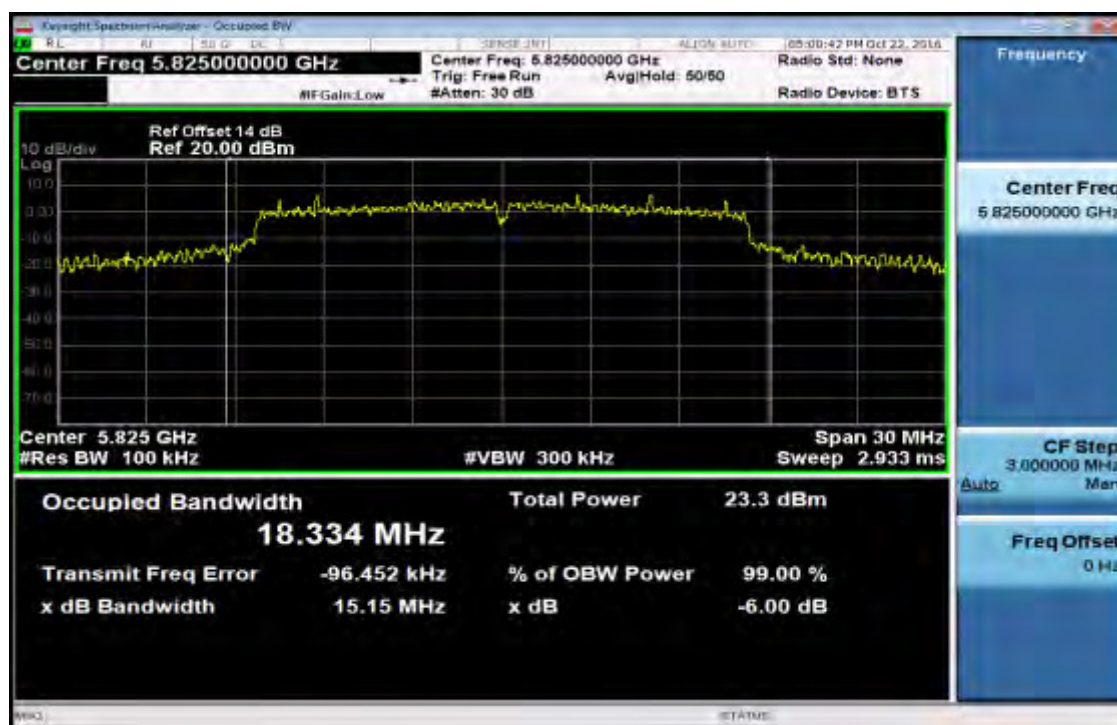
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6dB Band Width Test Data CH-High (5825 MHz)



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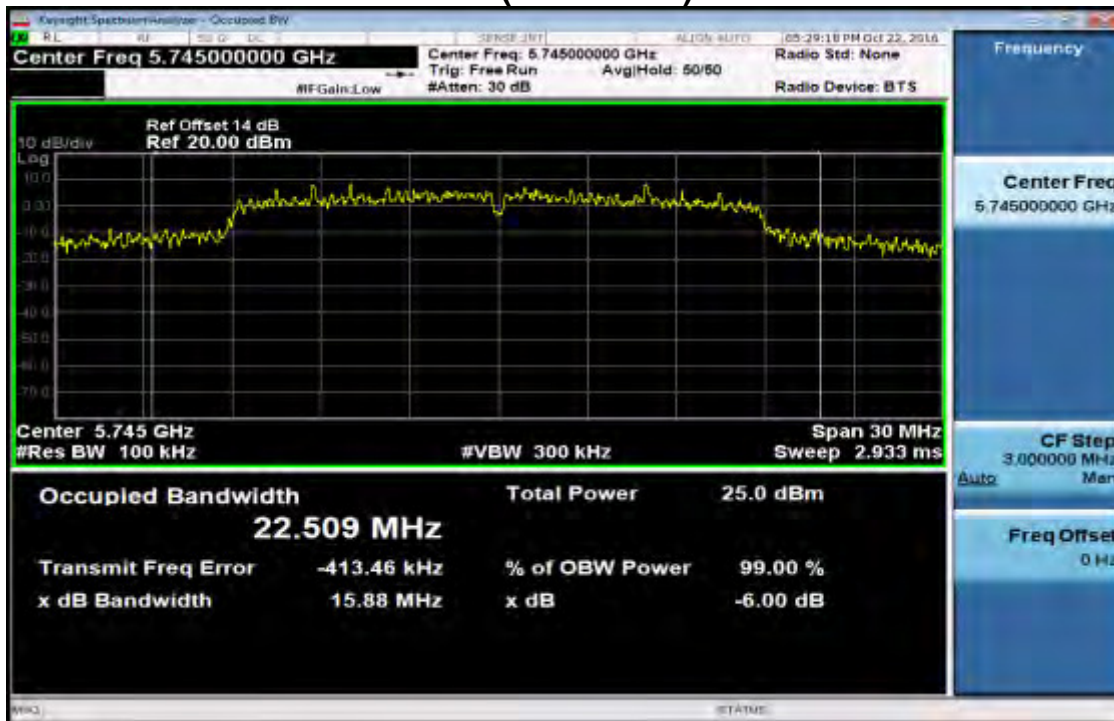
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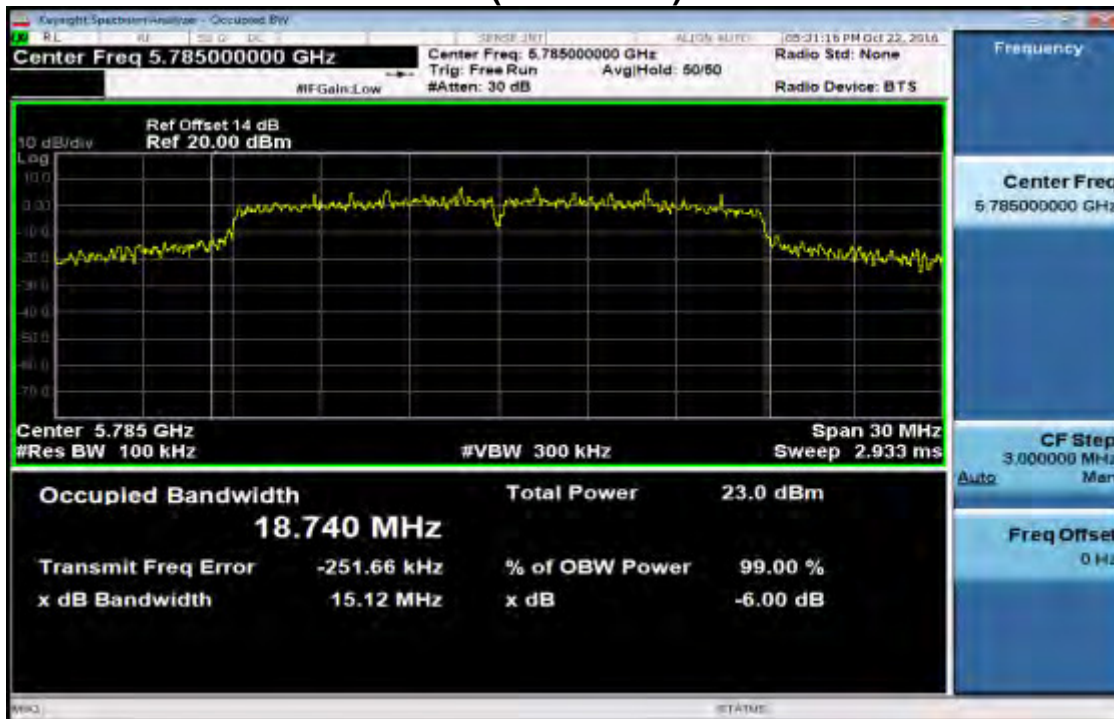
CDD Mode:

802.11n_HT20, 5725~5850 MHz (Main)

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



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



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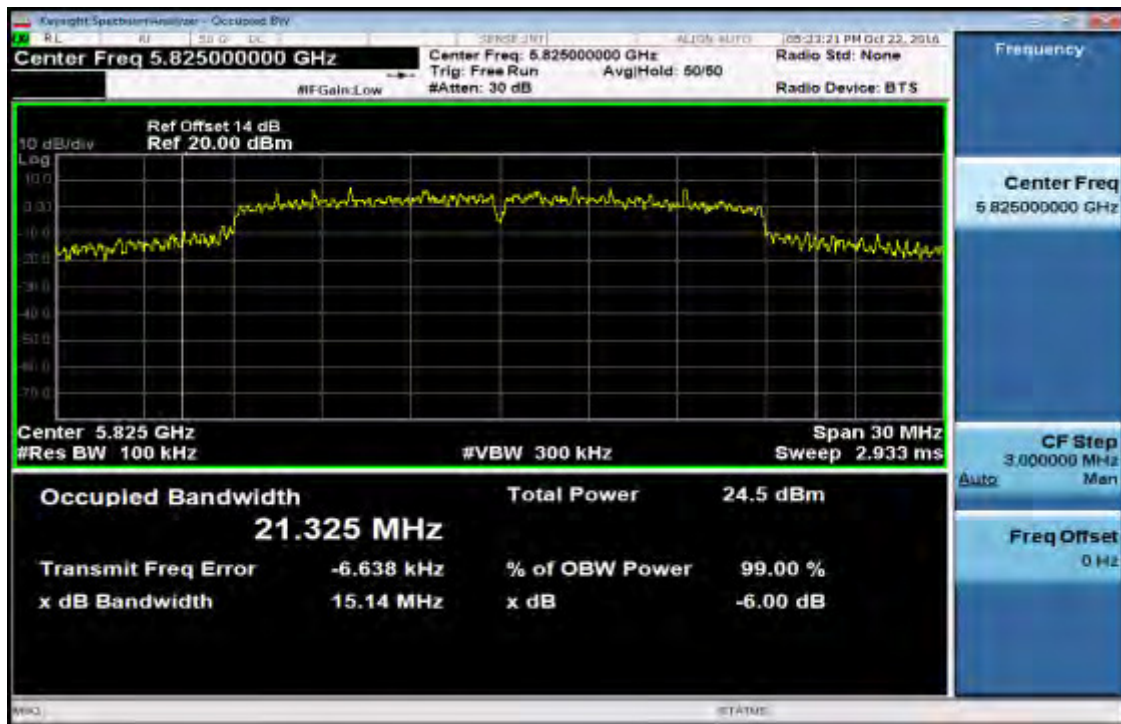
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6dB Band Width Test Data CH-High (5825 MHz)



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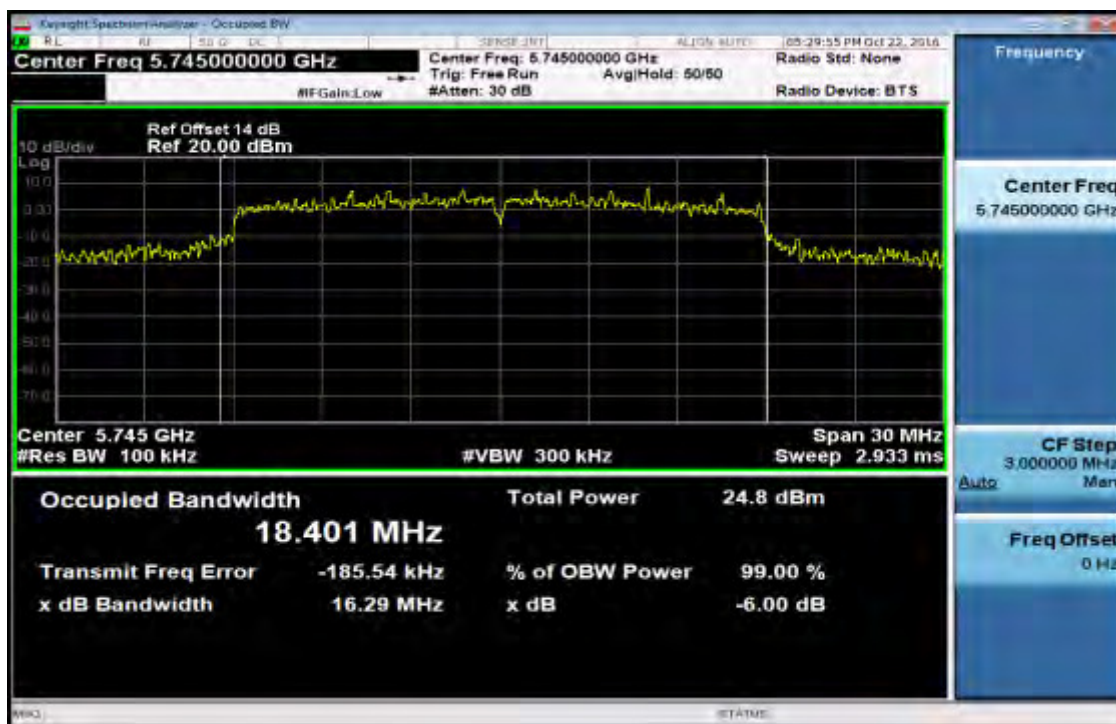
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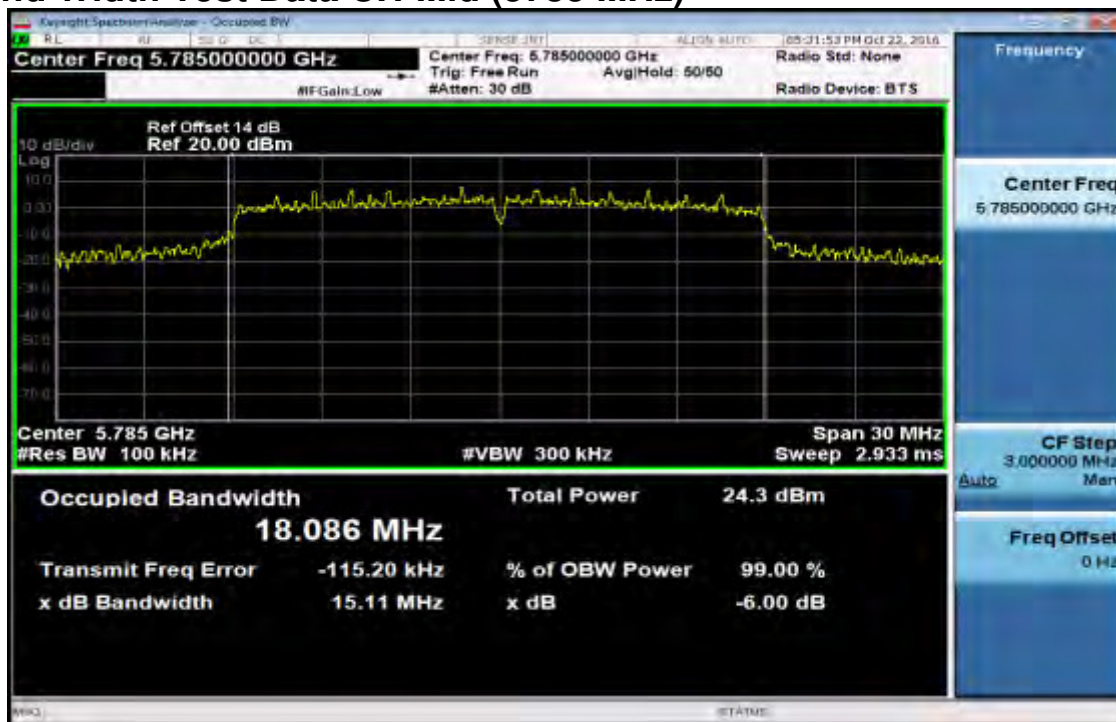
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6dB Band Width Test Data CH-Mid (5785 MHz)



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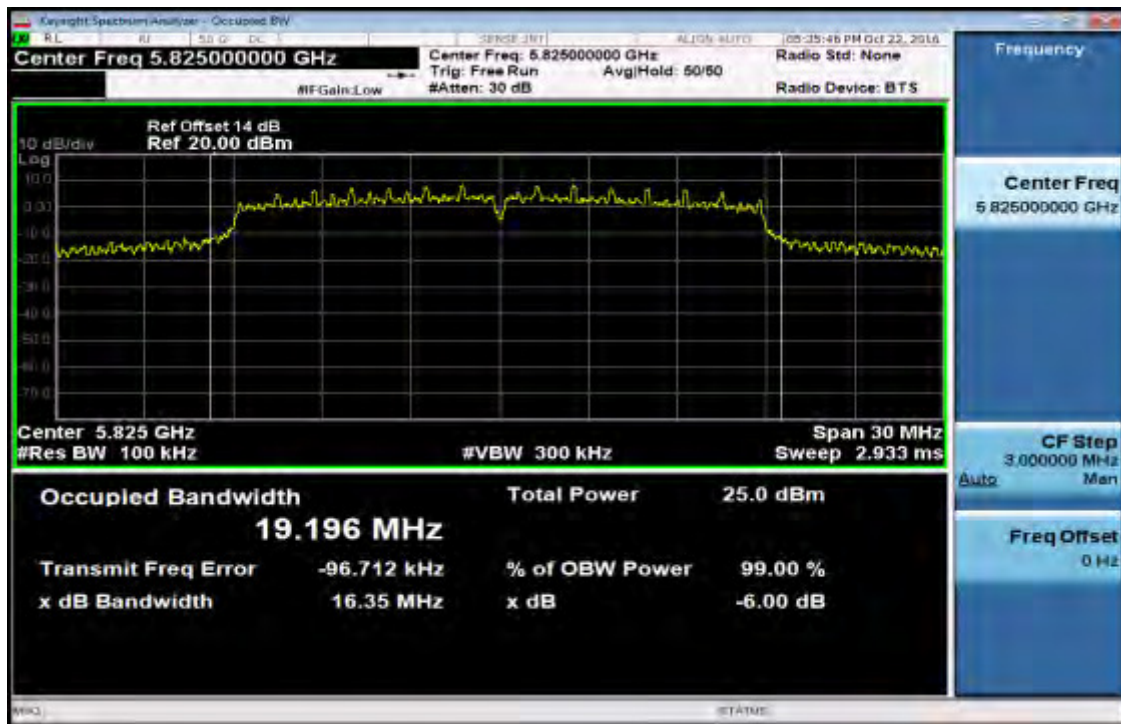
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6dB Band Width Test Data CH-High (5825 MHz)



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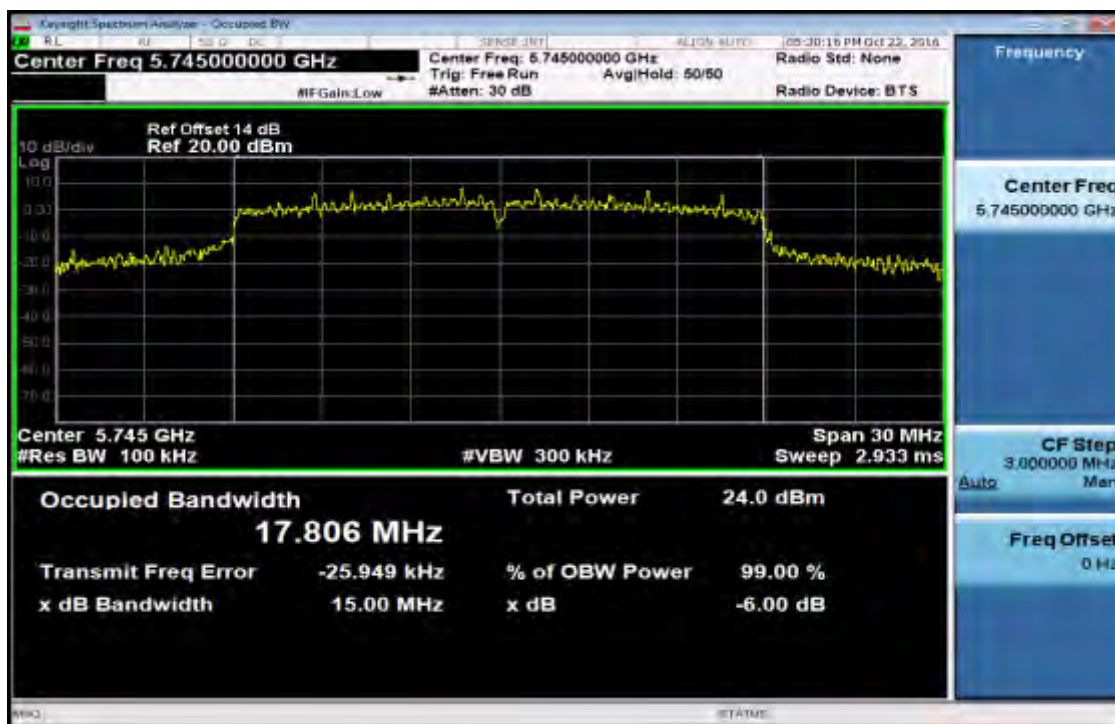
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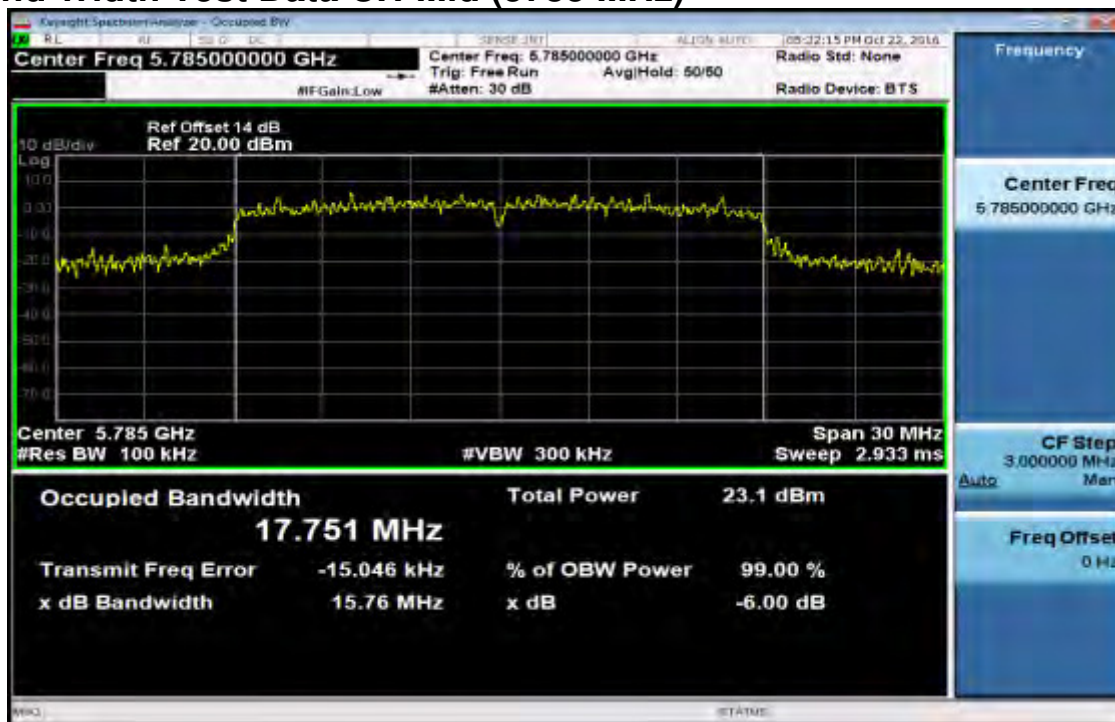
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802.11n_HT20, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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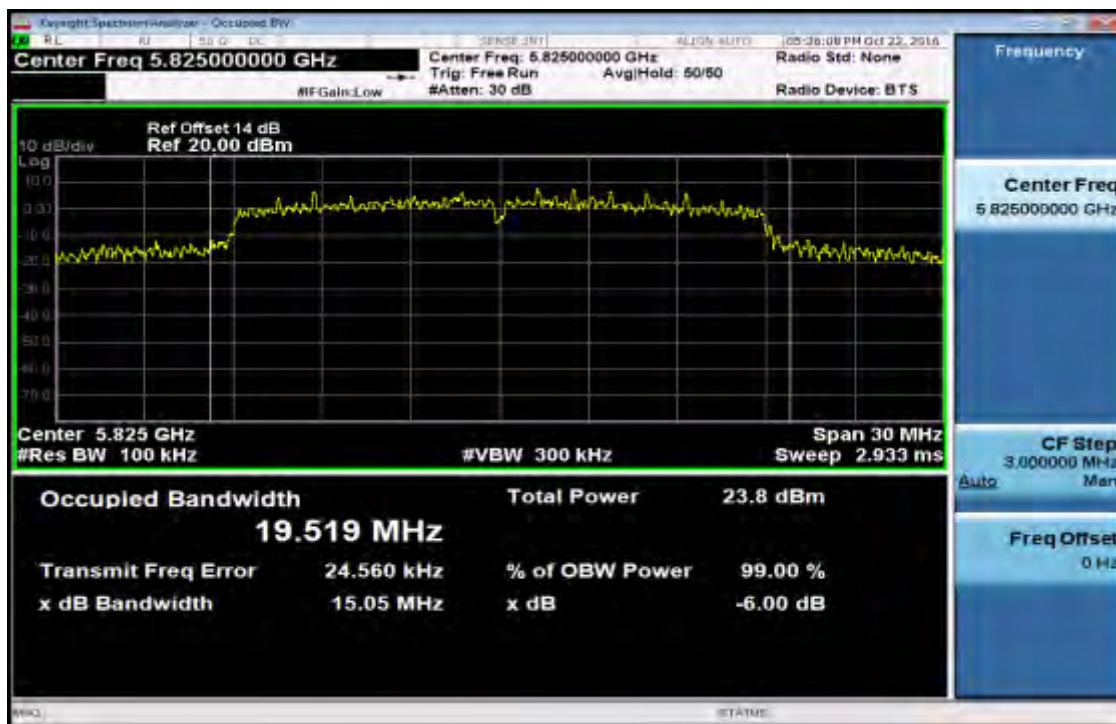
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6dB Band Width Test Data CH-High (5825 MHz)



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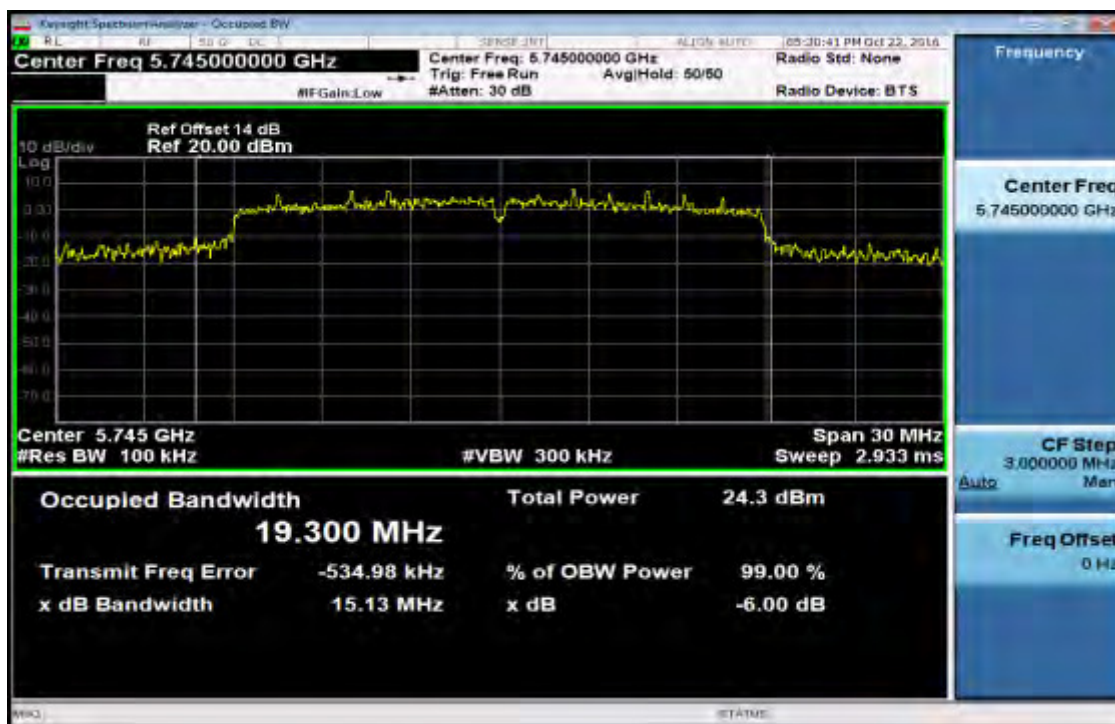
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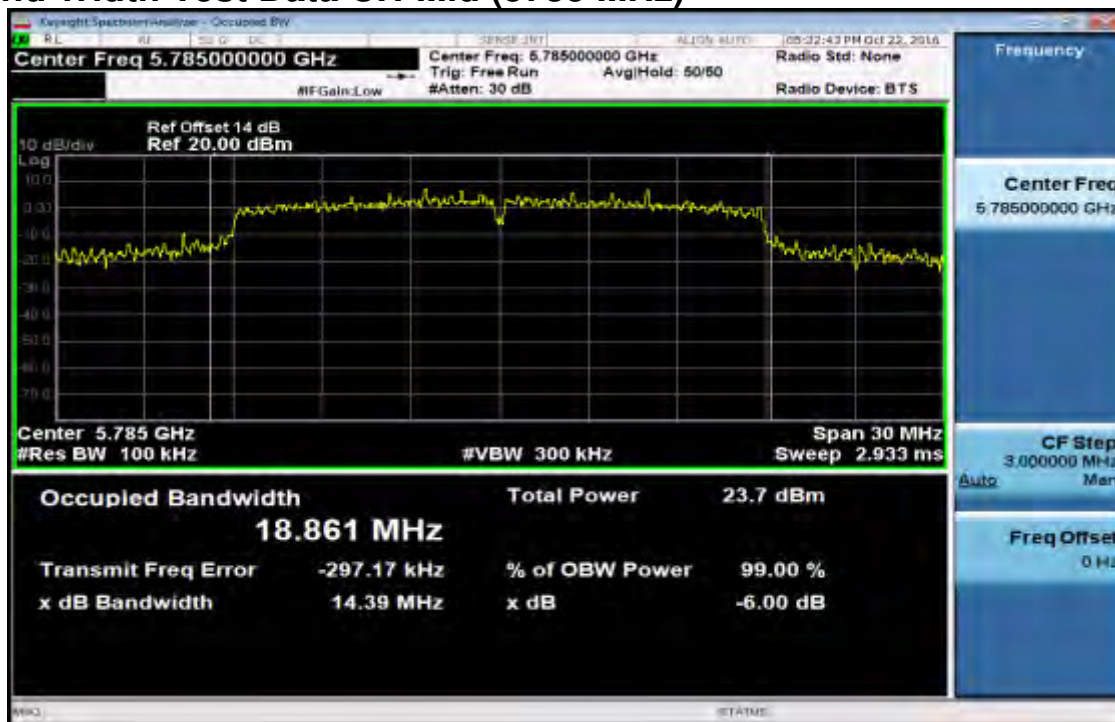
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802.11n_HT20, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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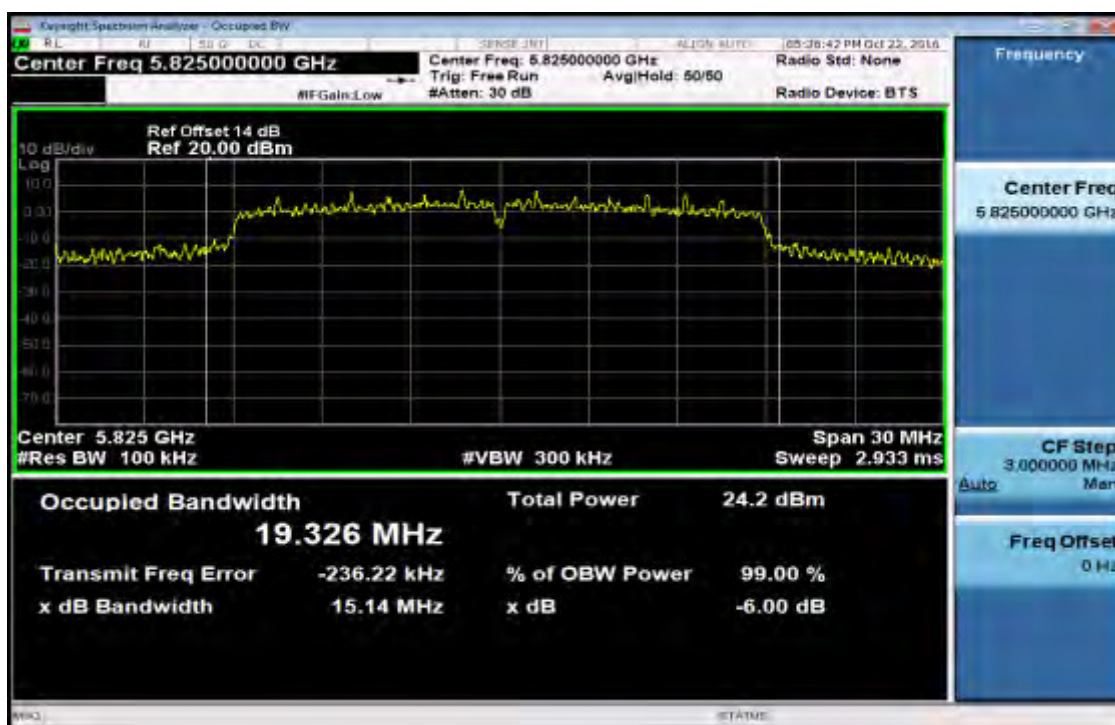
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6dB Band Width Test Data CH-High (5825 MHz)



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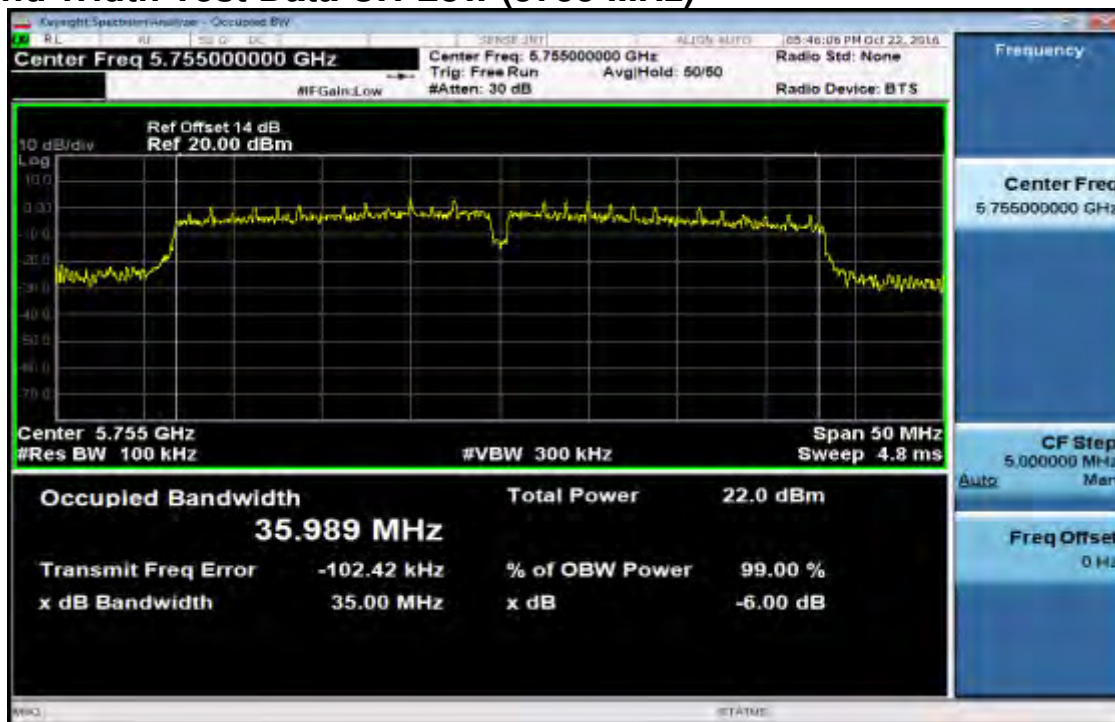
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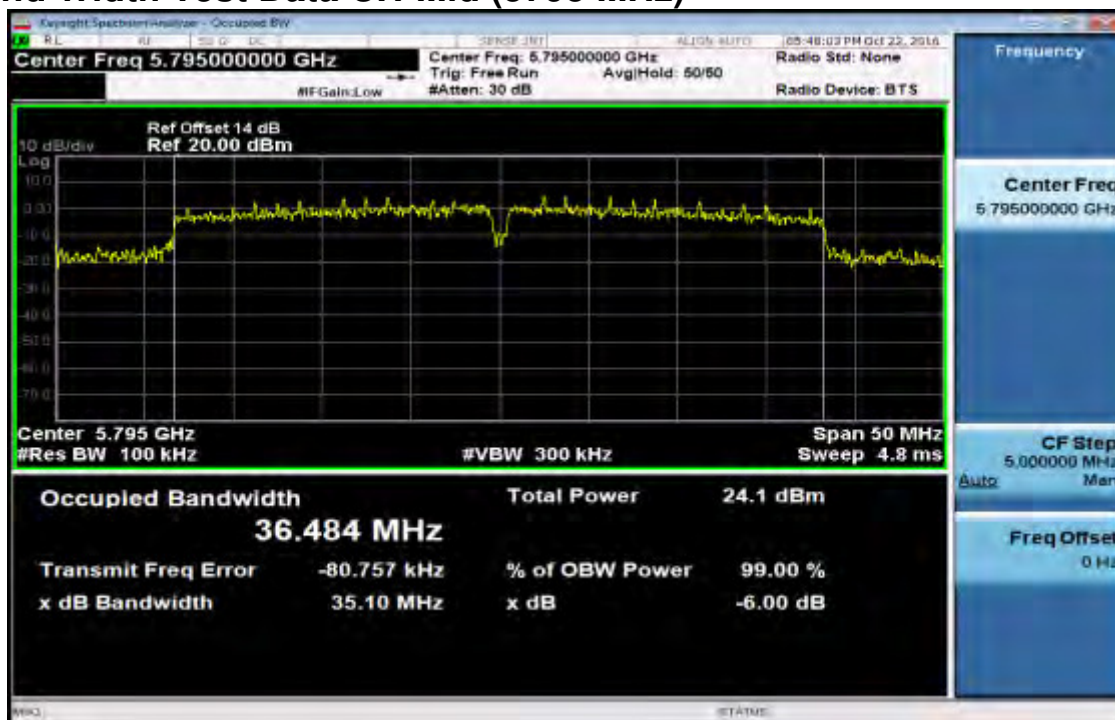
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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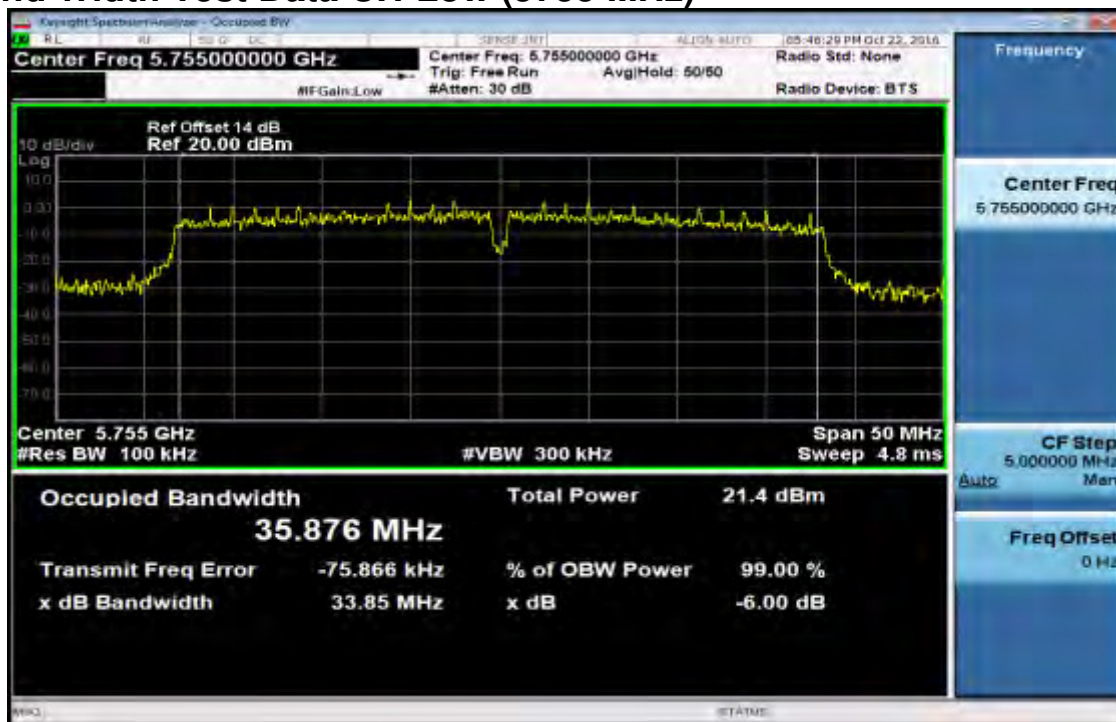
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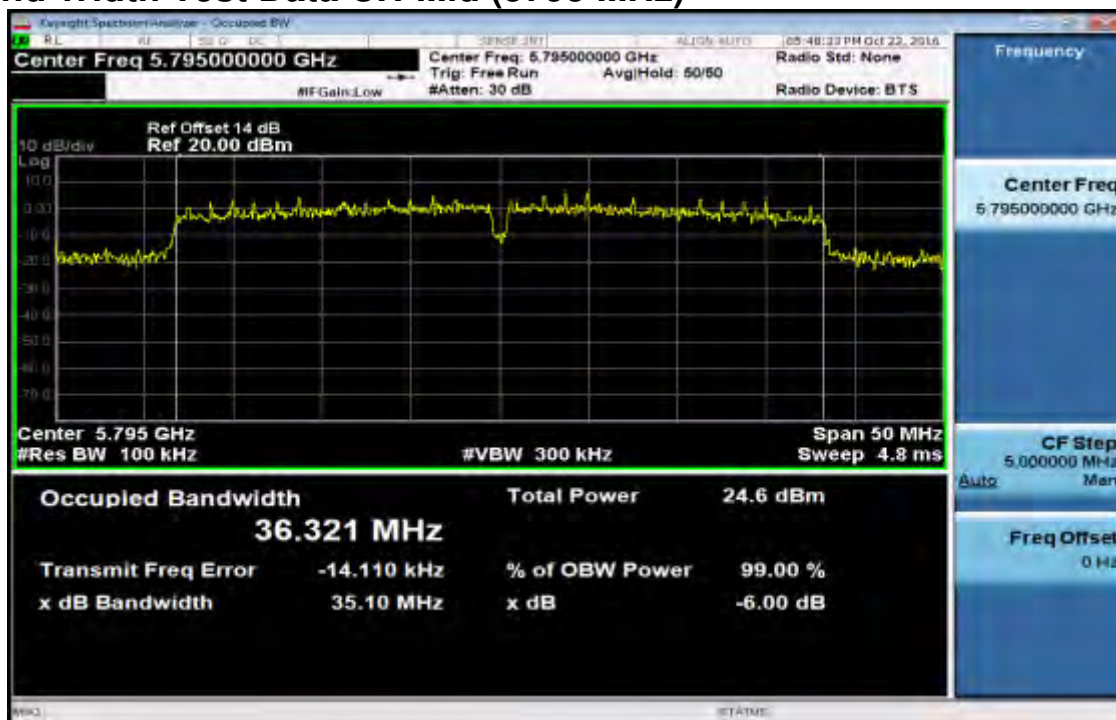
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802.11n_HT40, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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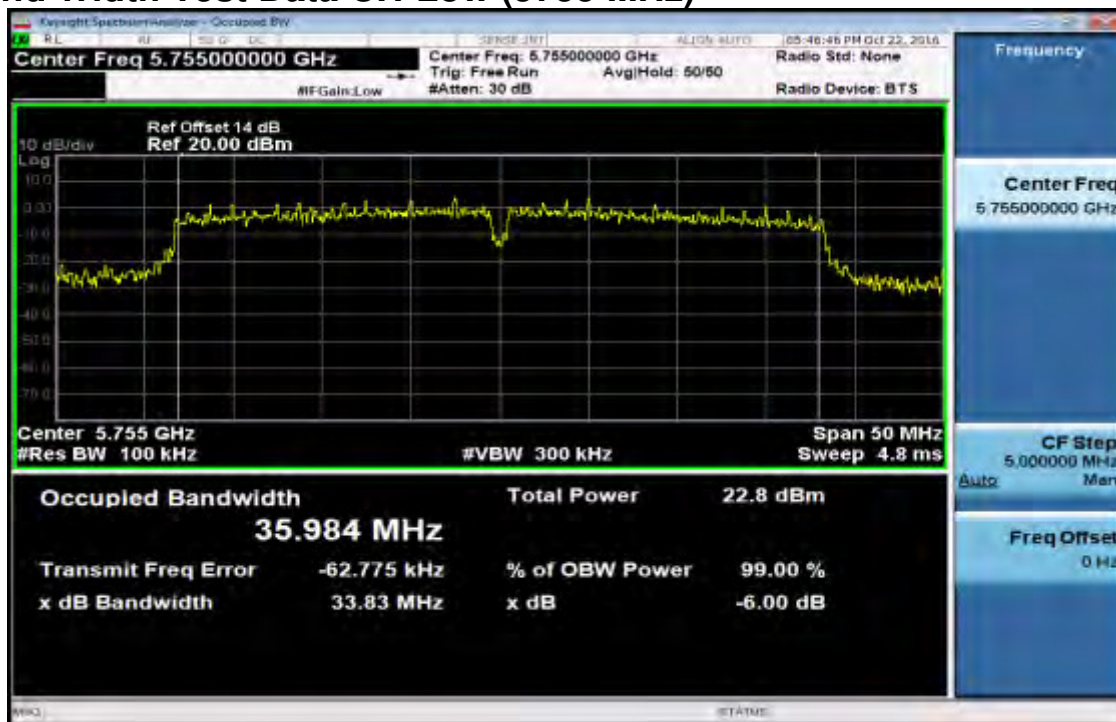
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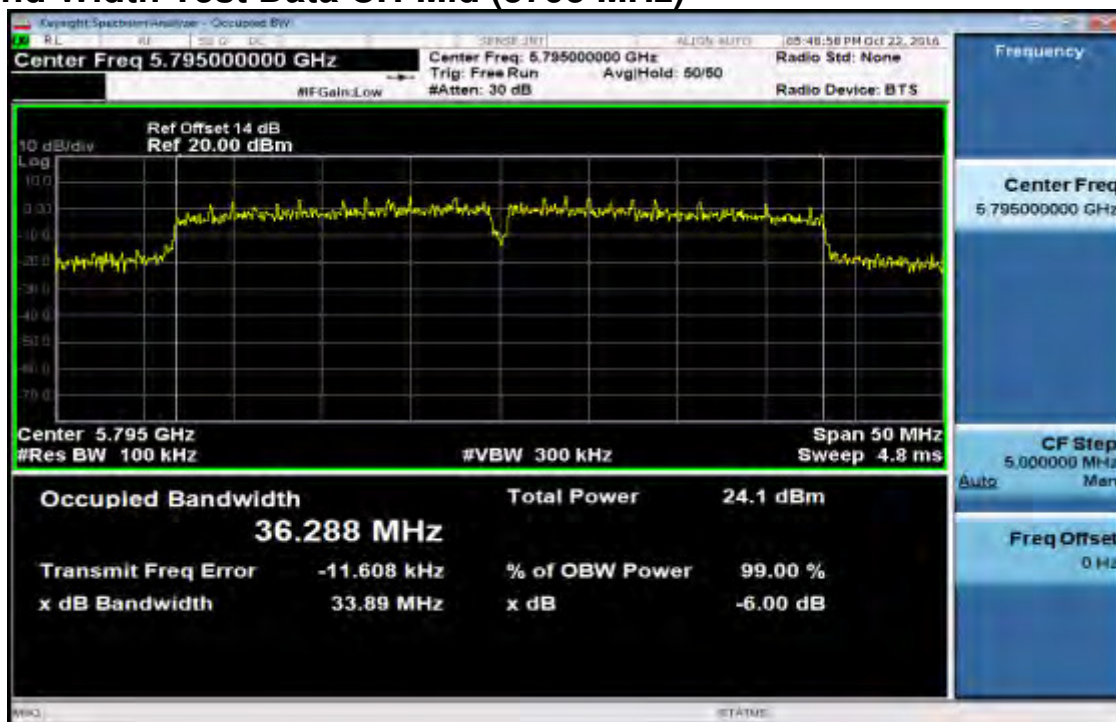
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802.11n_HT40, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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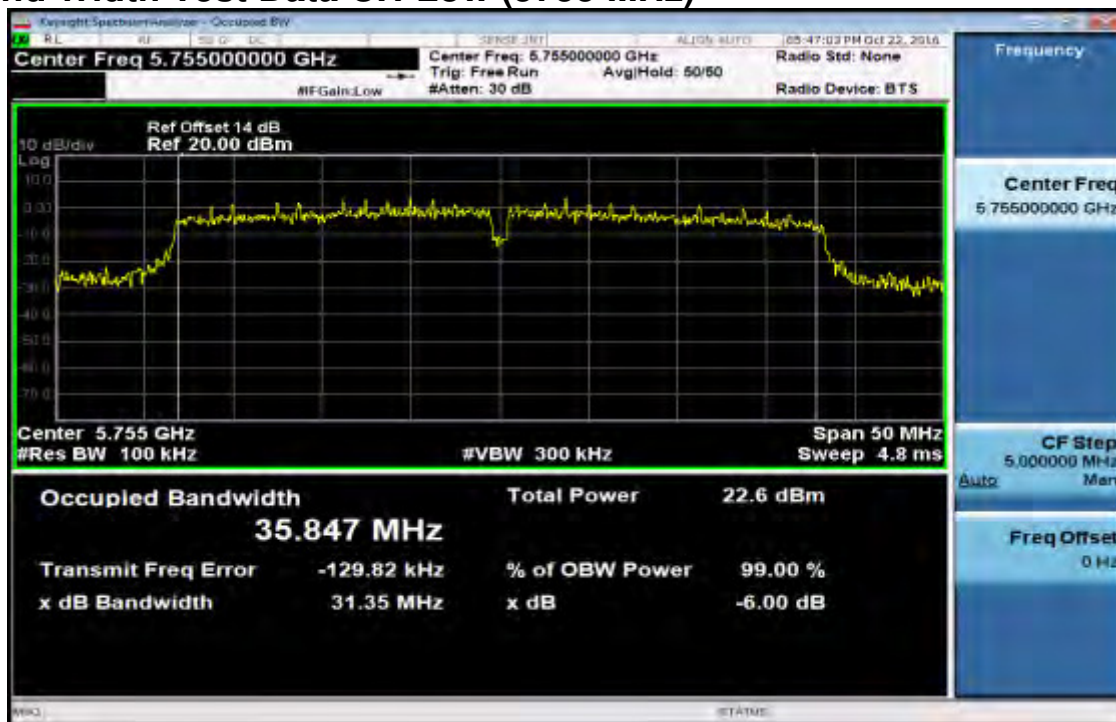
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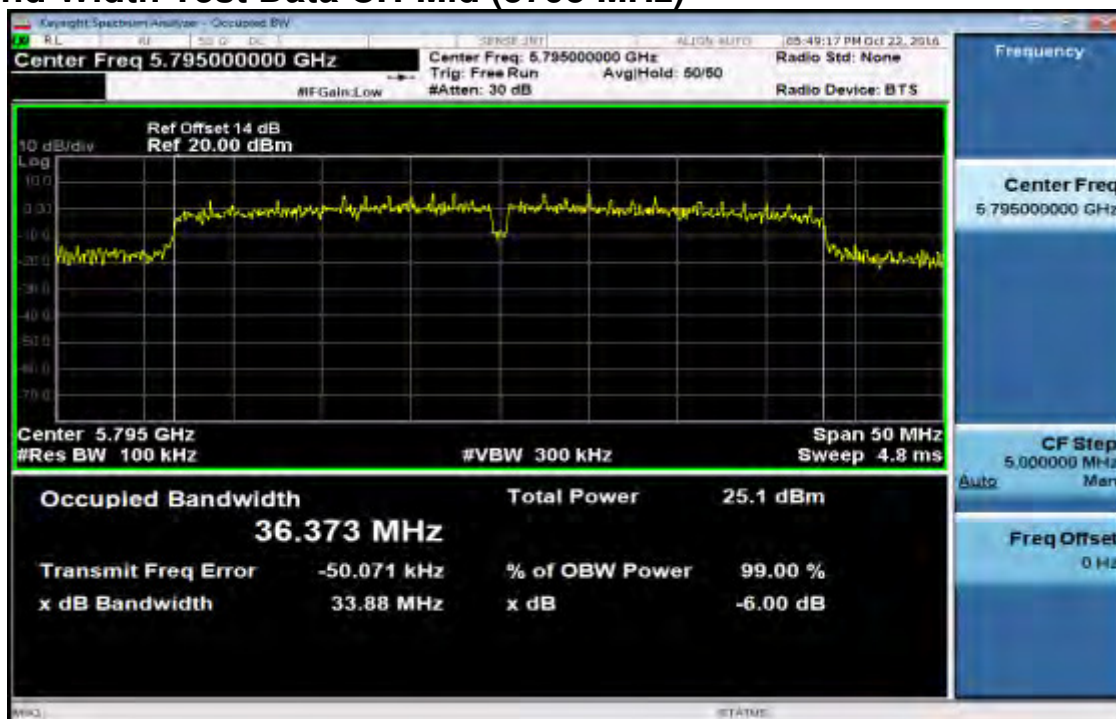
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802.11n_HT40, 5725~5850 MHz (Aux3) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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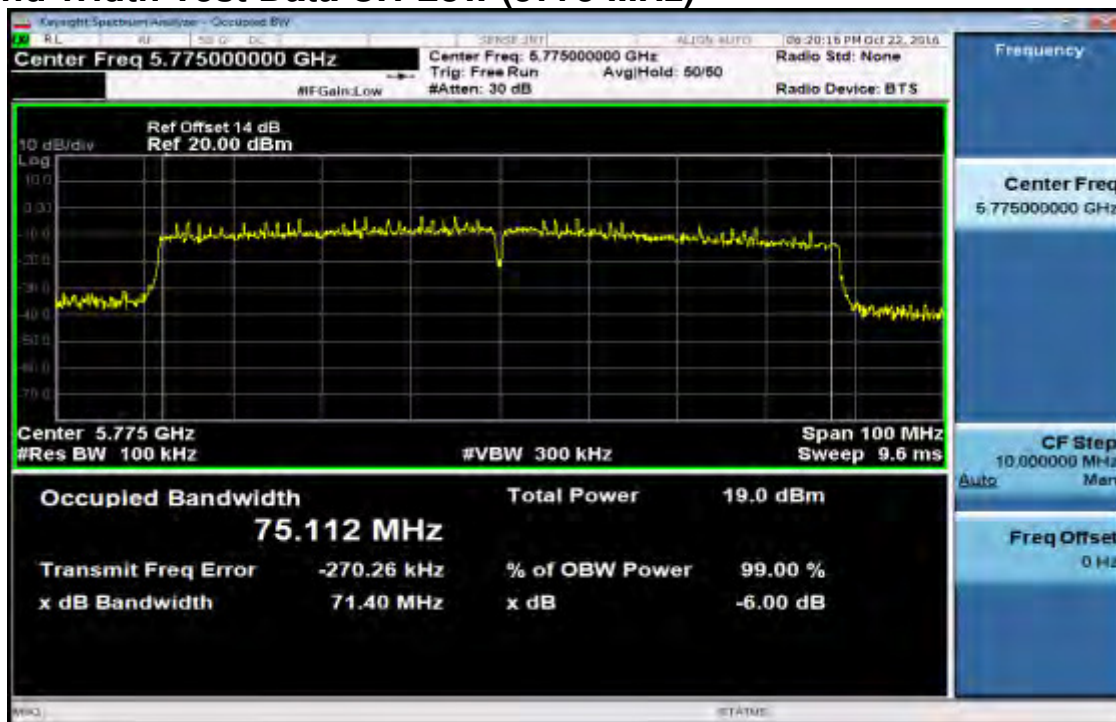
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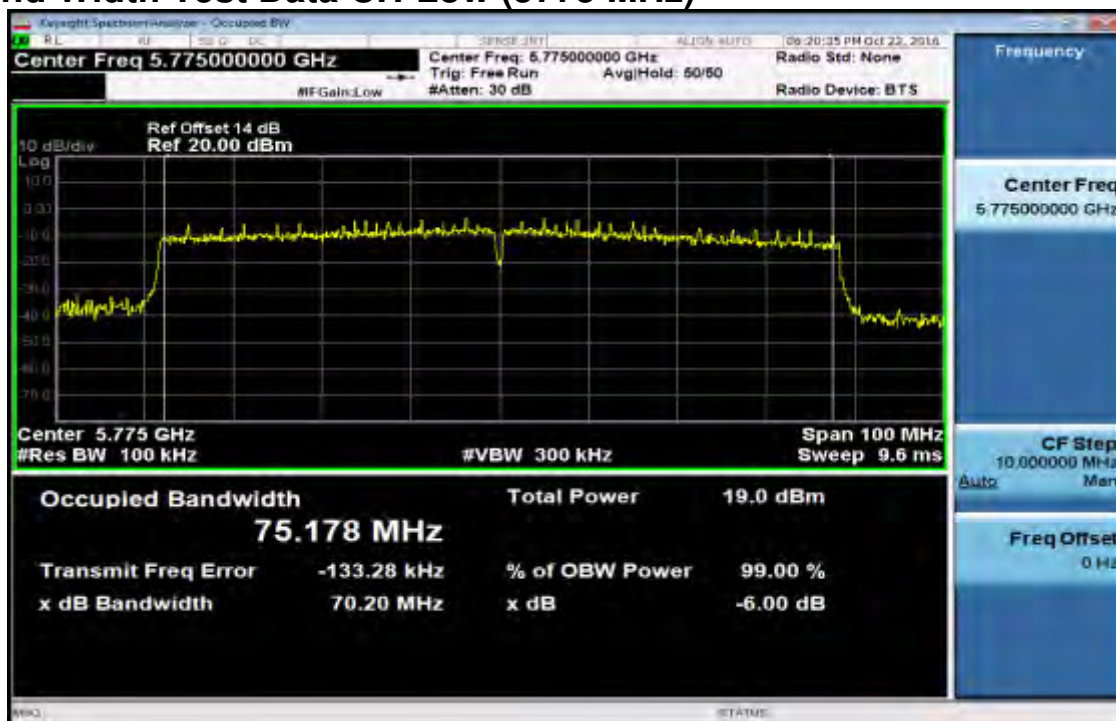
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



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



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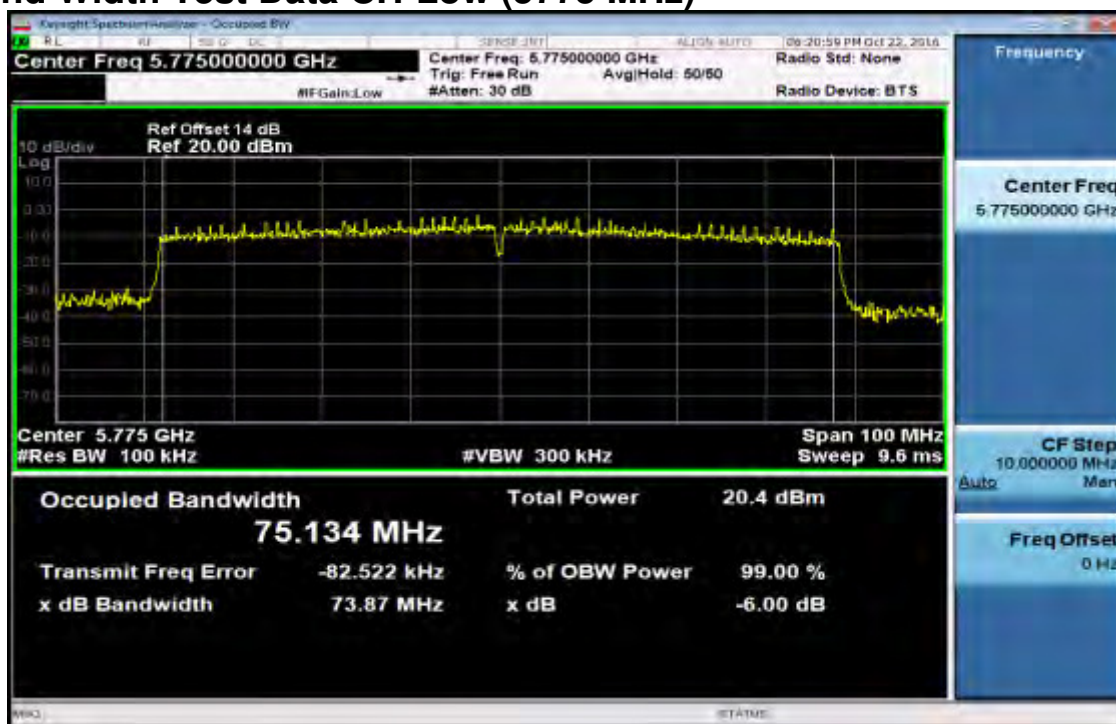
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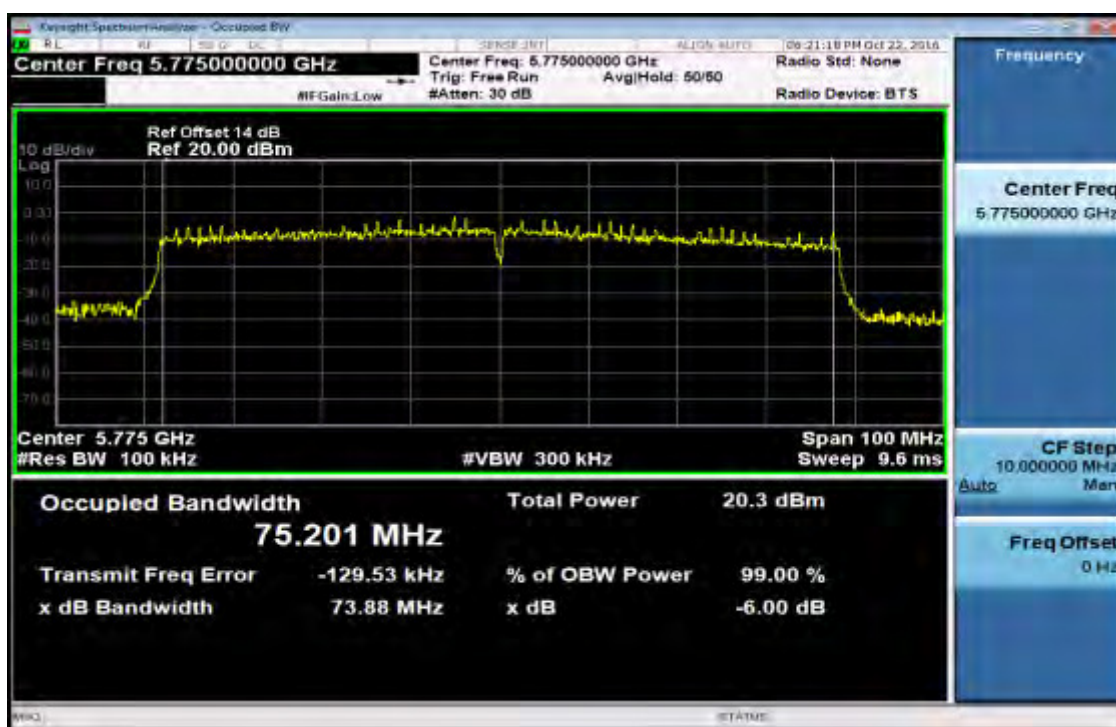
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802.11ac VHT80, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5775 MHz)



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



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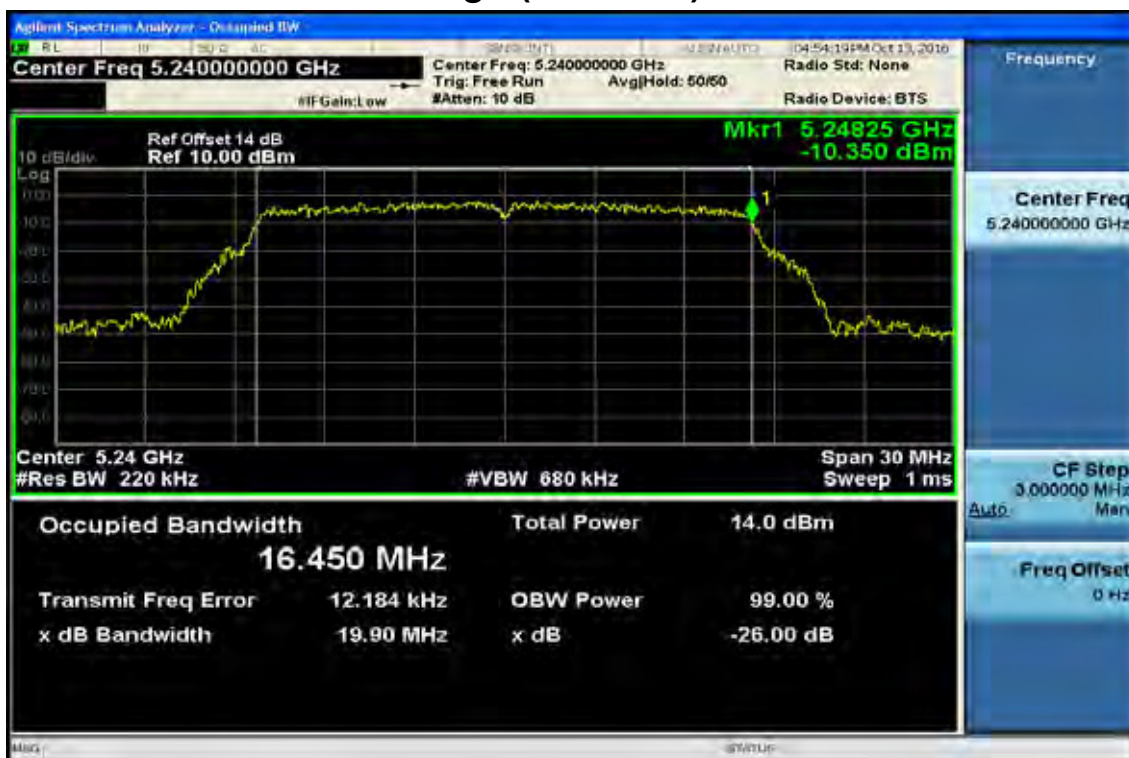
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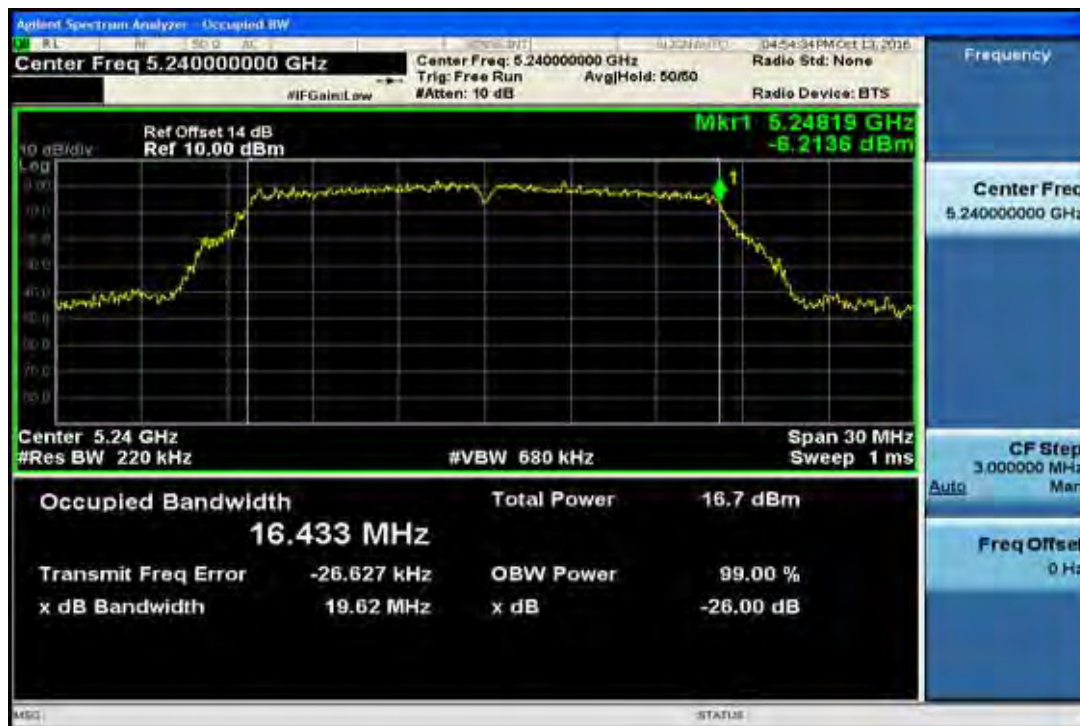
802.11a, 5150~5250 MHz (Main)

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



802.11a, 5150~5250 MHz (Aux1)

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



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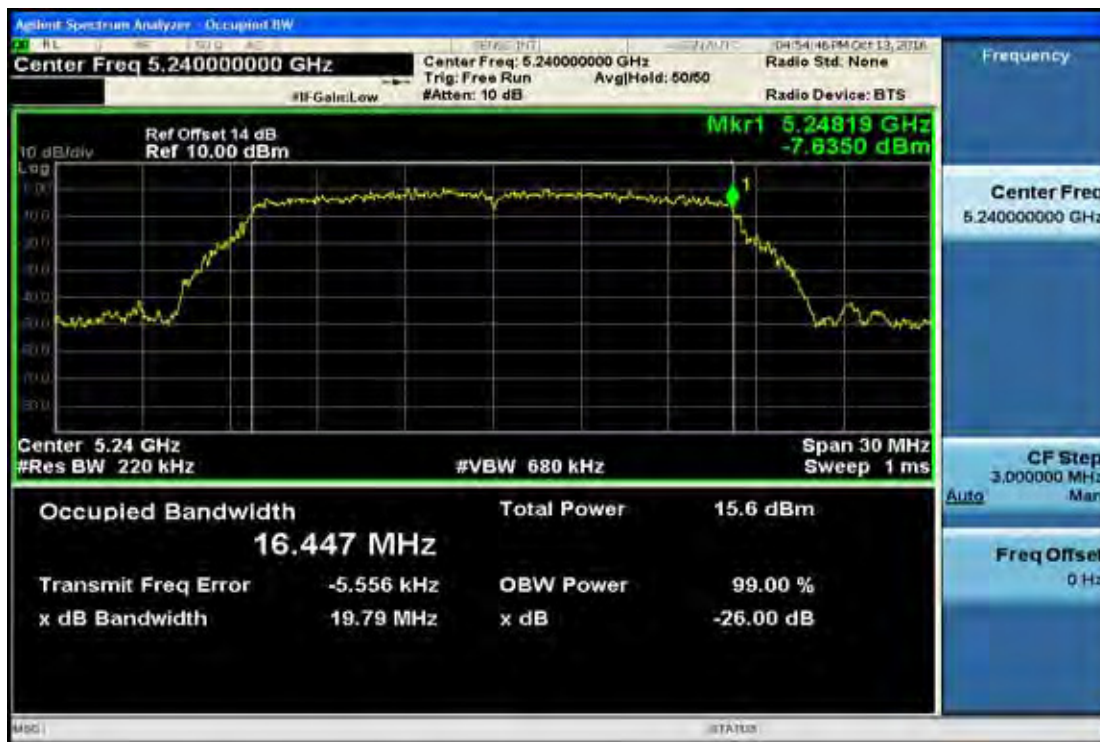
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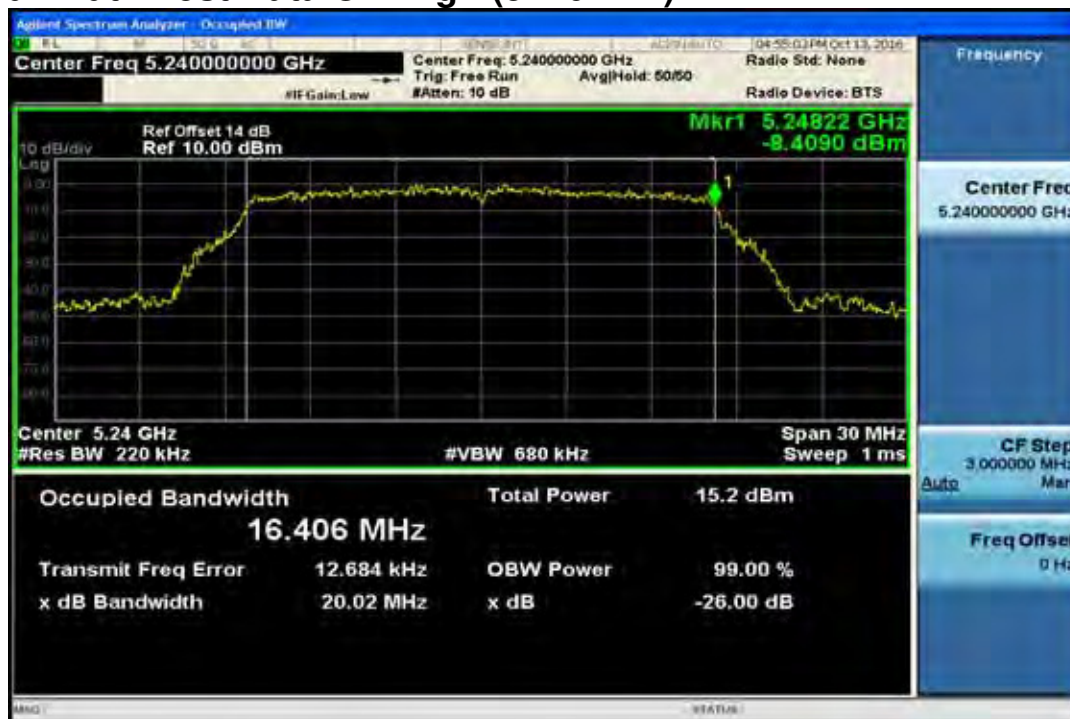
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802.11a, 5150~5250 MHz (Aux2) 99% Band Width Test Data CH-High (5240MHz)



802.11a, 5150~5250 MHz (Aux3) 99% Band Width Test Data CH-High (5240MHz)



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



802.11n HT20, 5150~5250 MHz (Aux1)
99% Band Width Test Data CH-High (5240 MHz)



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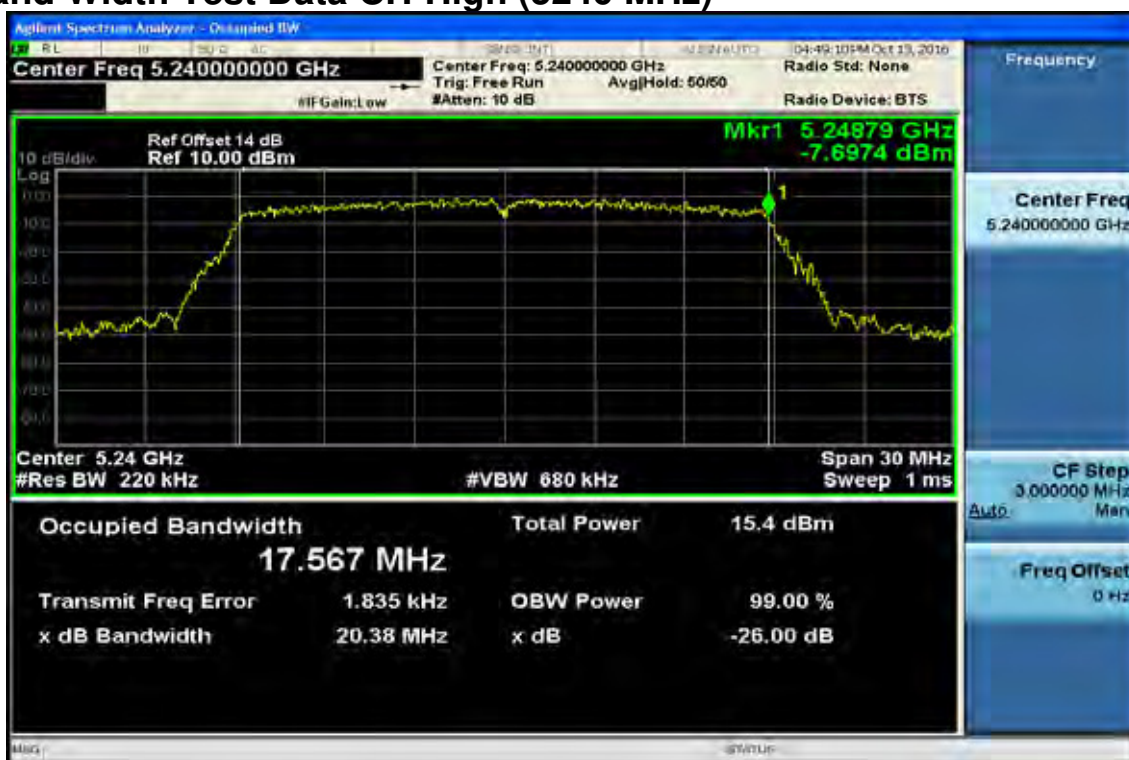
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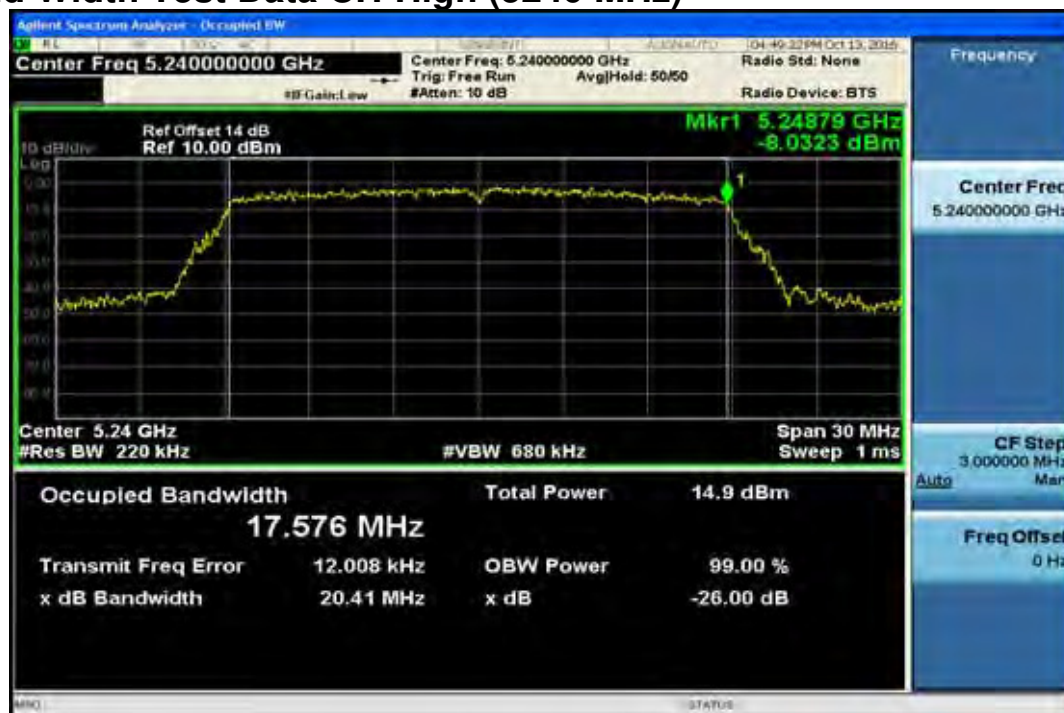
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802.11n HT20, 5150~5250 MHz (Aux3) 99% Band Width Test Data CH-High (5240 MHz)



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



802.11n HT40, 5150~5250 MHz (Aux1)
99% Band Width Test Data CH-High (5230 MHz)



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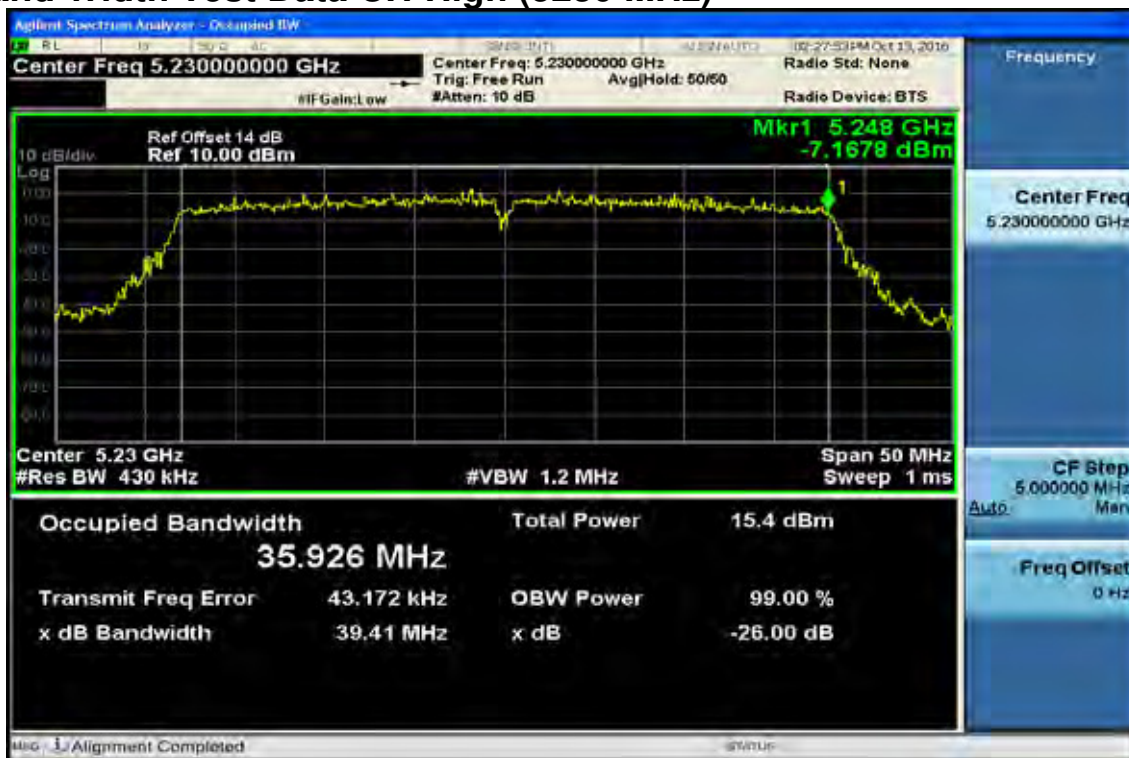
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802.11n HT40, 5150~5250 MHz (Aux2)

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



802.11n HT40, 5150~5250 MHz (Aux3)

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



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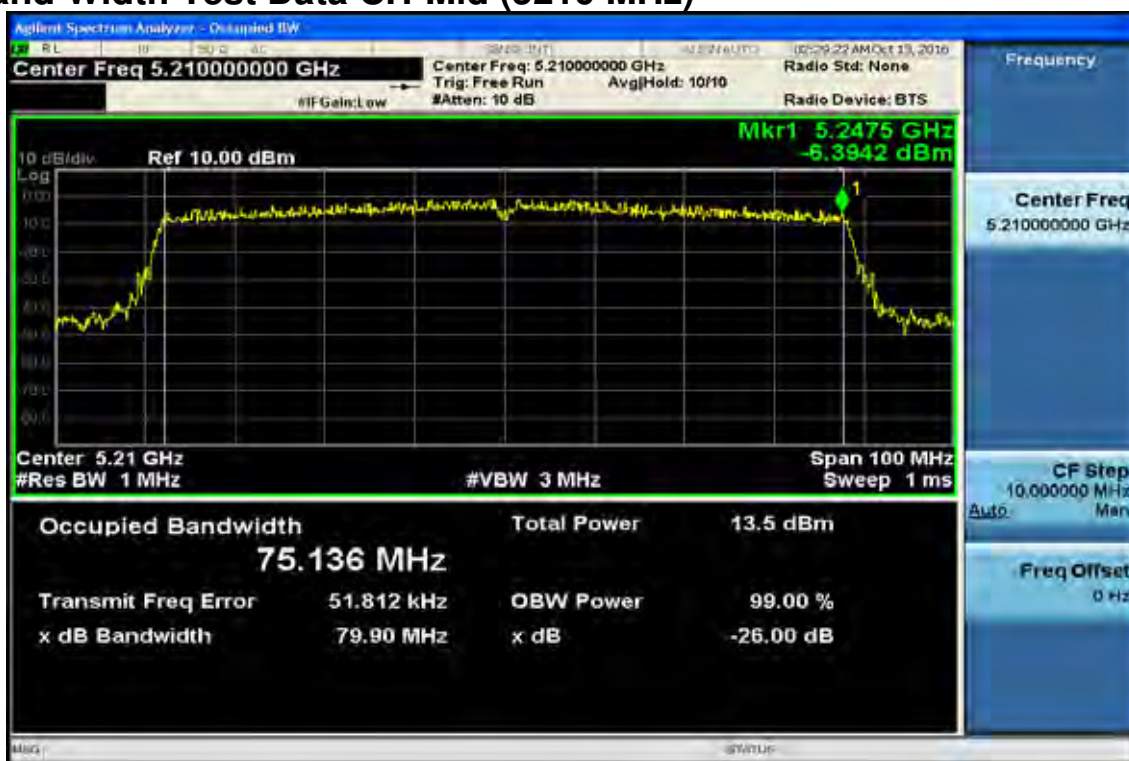
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802.11ac VHT80, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Mid (5210 MHz)



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



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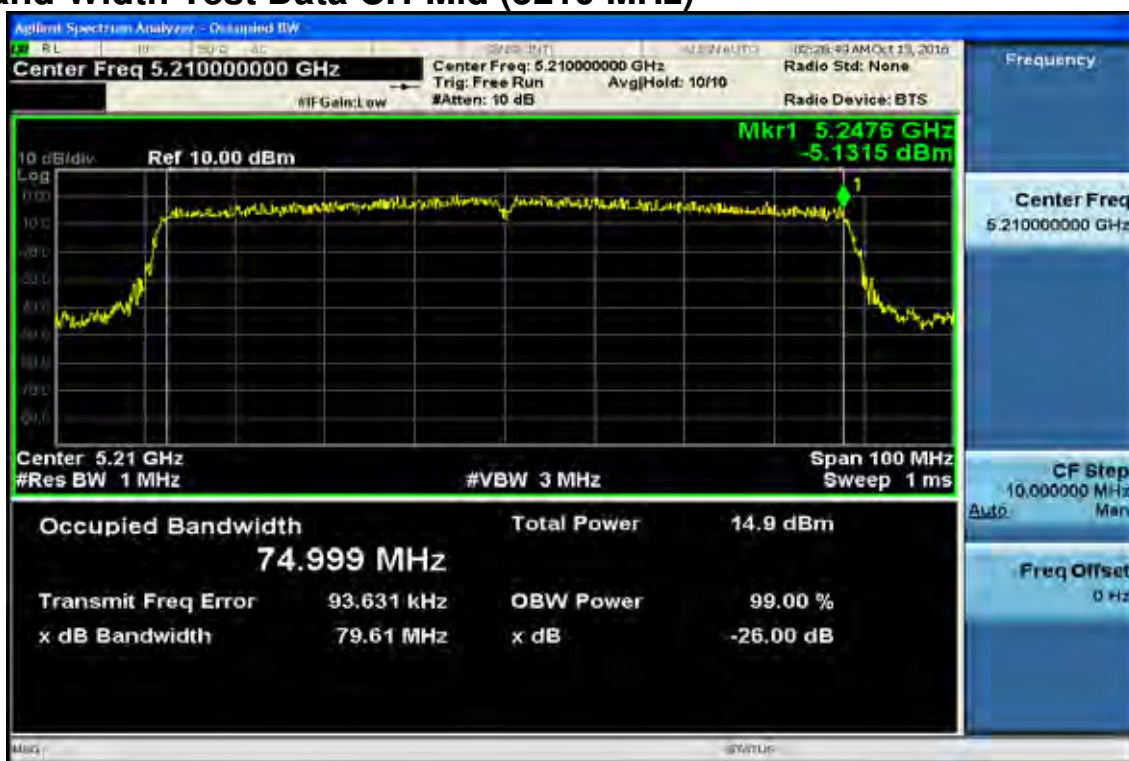
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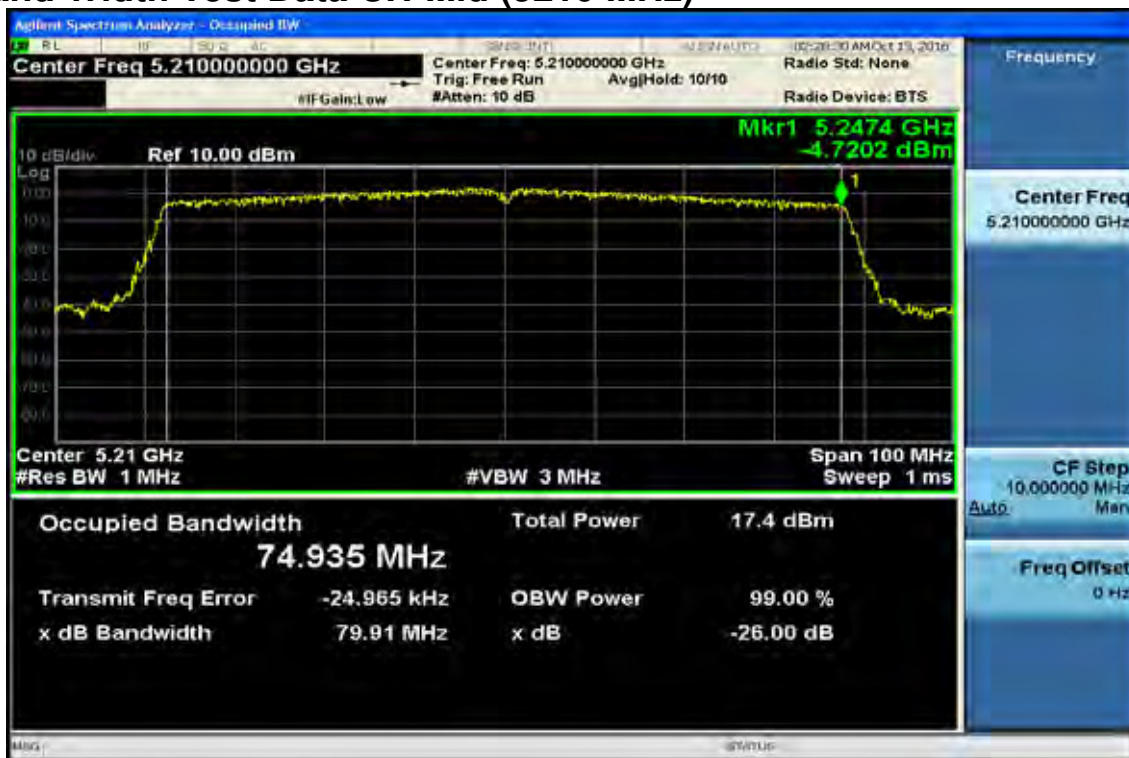
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802.11ac VHT80, 5150~5250 MHz (Aux2) 99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux3) 99% Band Width Test Data CH-Mid (5210 MHz)



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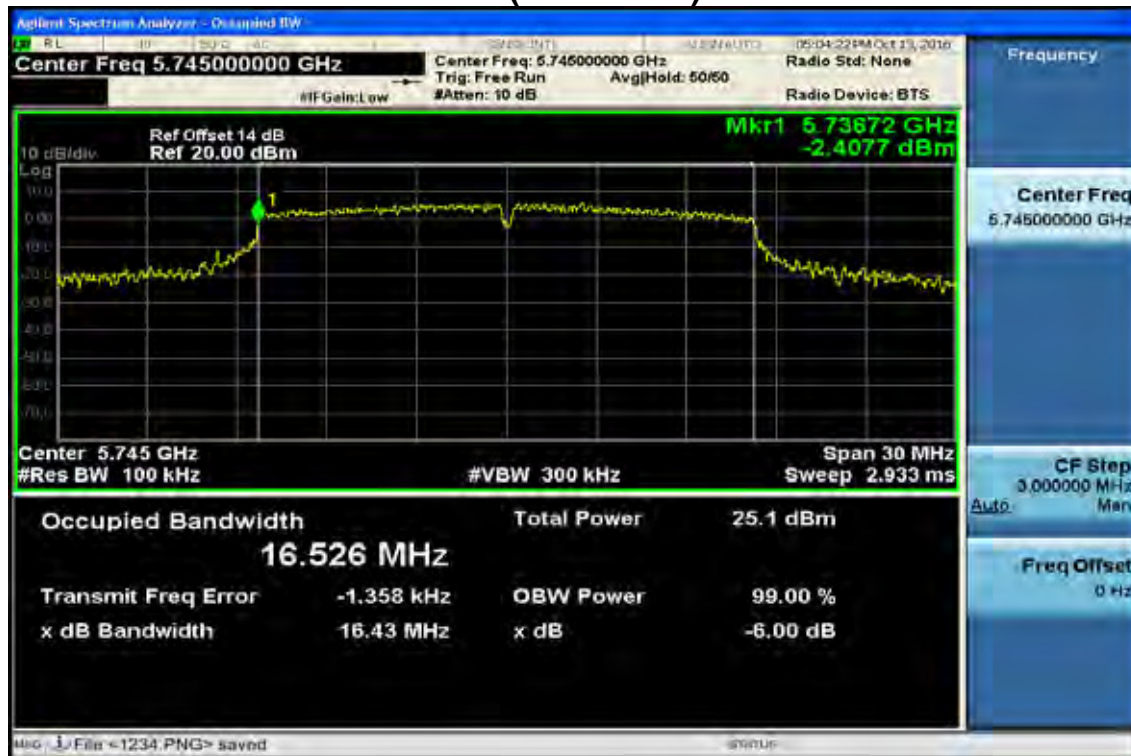
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6dB Band Width measure with Peak detector for FCC

802.11a, 5725~5850 MHz (Main)

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



802.11a, 5725~5850 MHz (Aux1)

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



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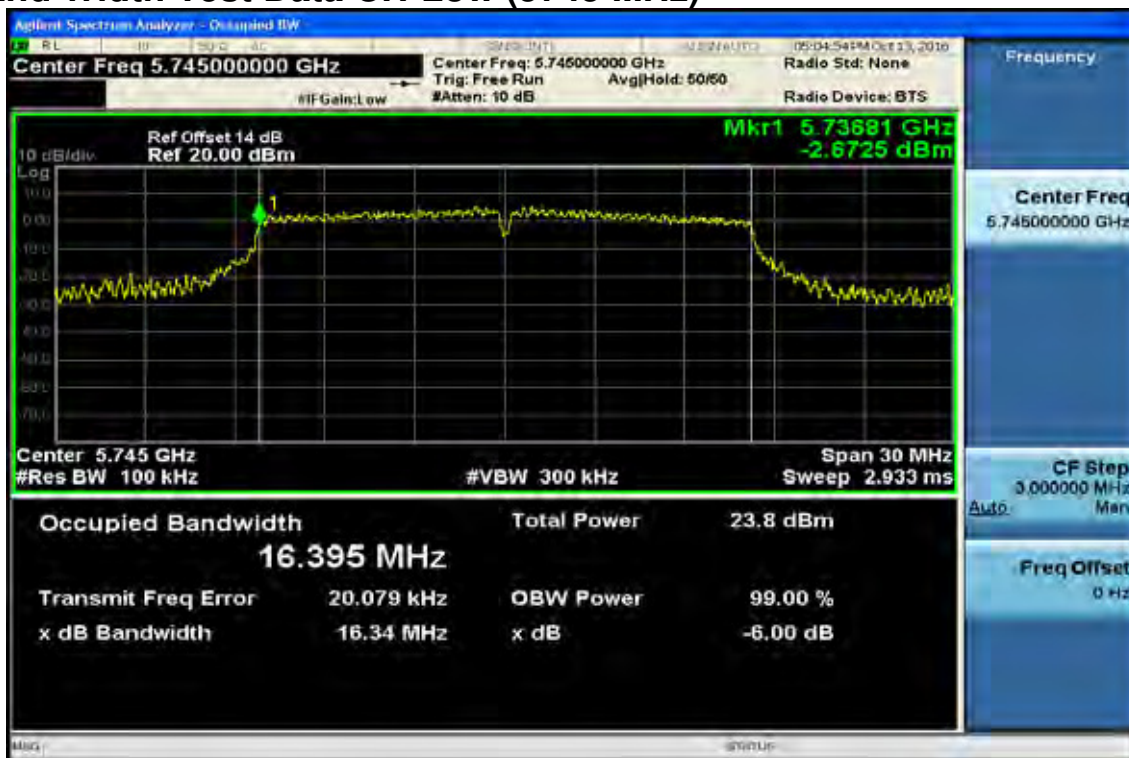
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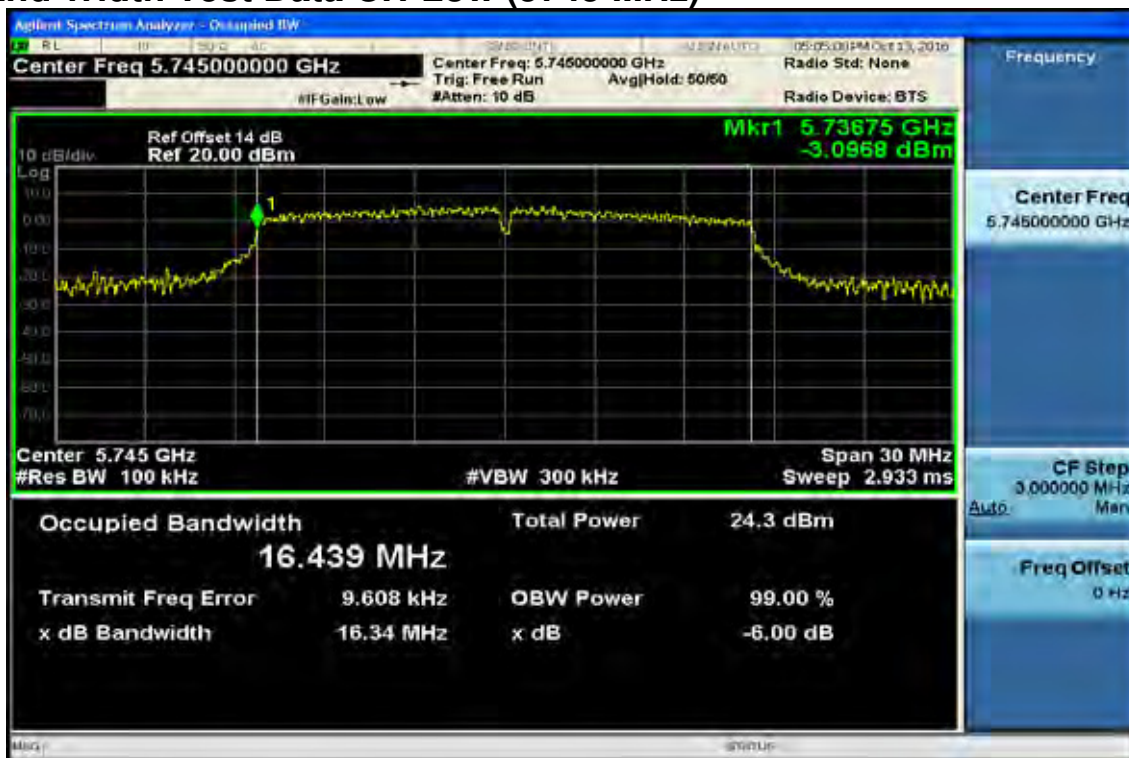
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802.11a, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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



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



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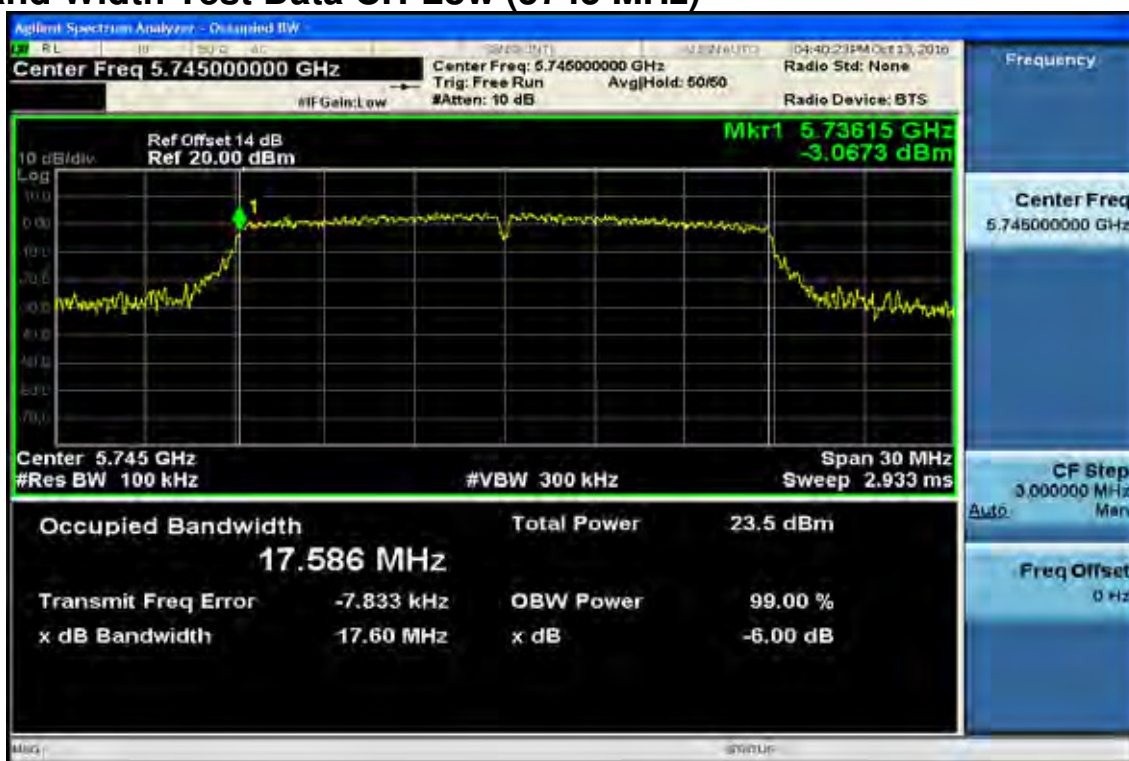
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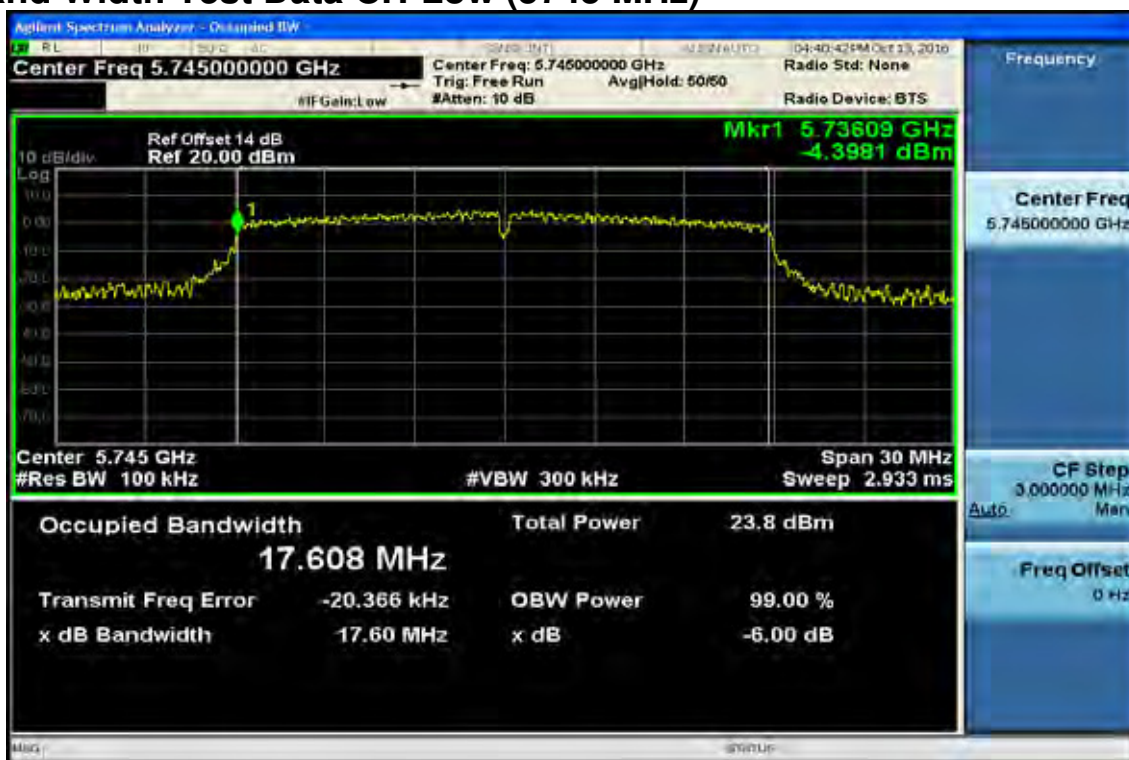
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802.11n_HT20, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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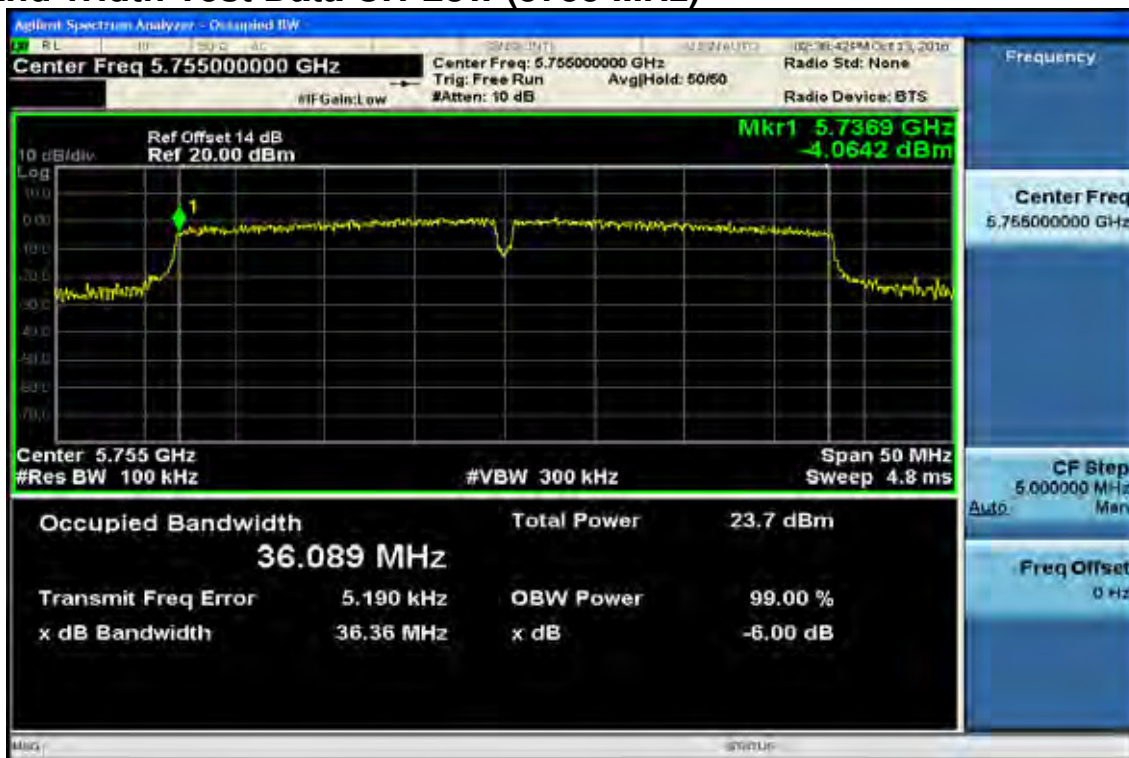
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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



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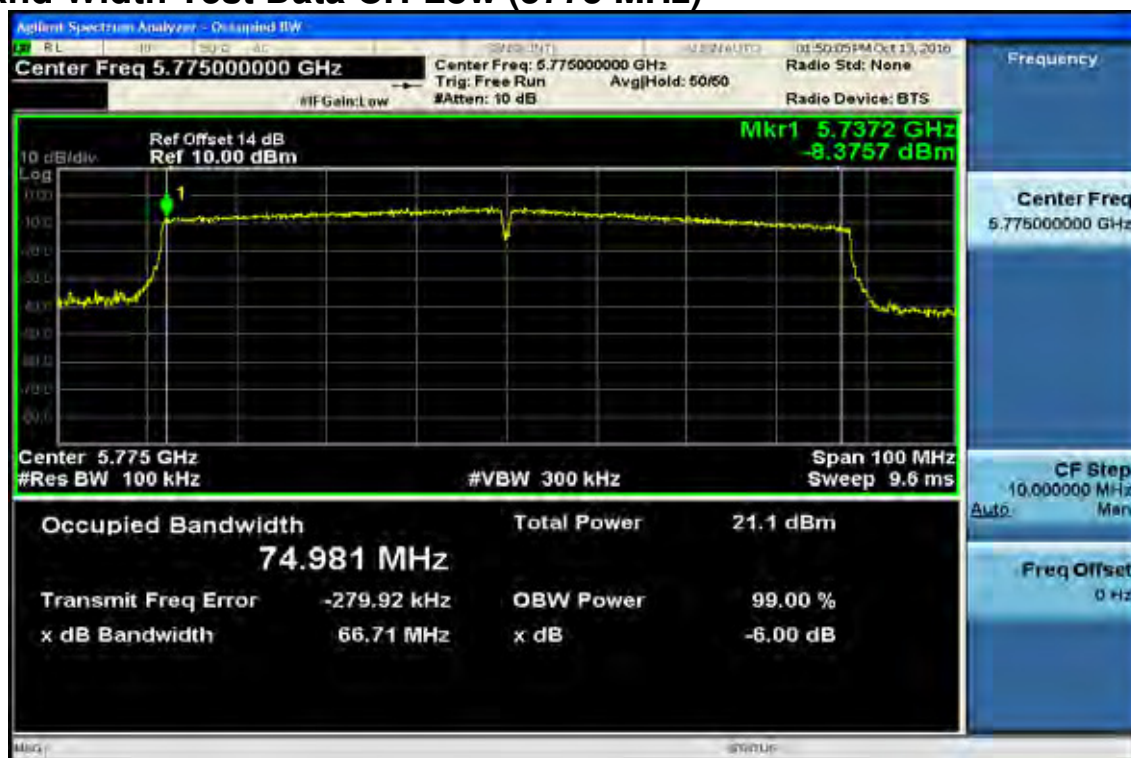
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



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



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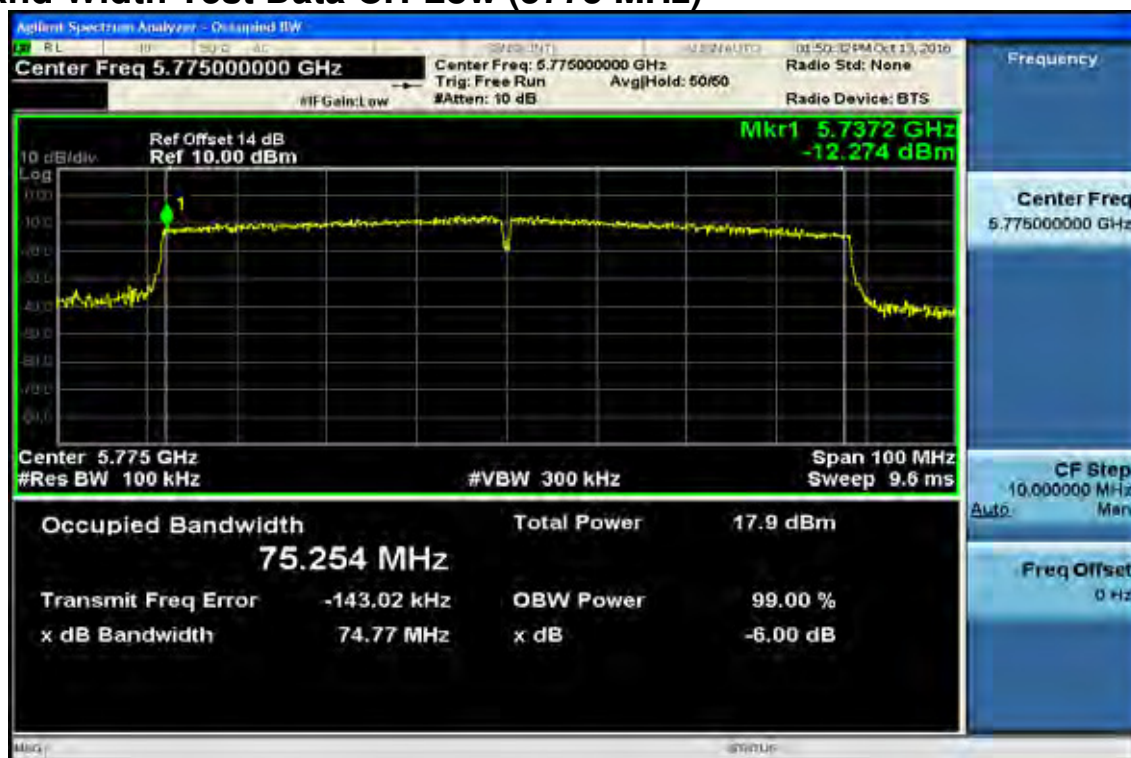
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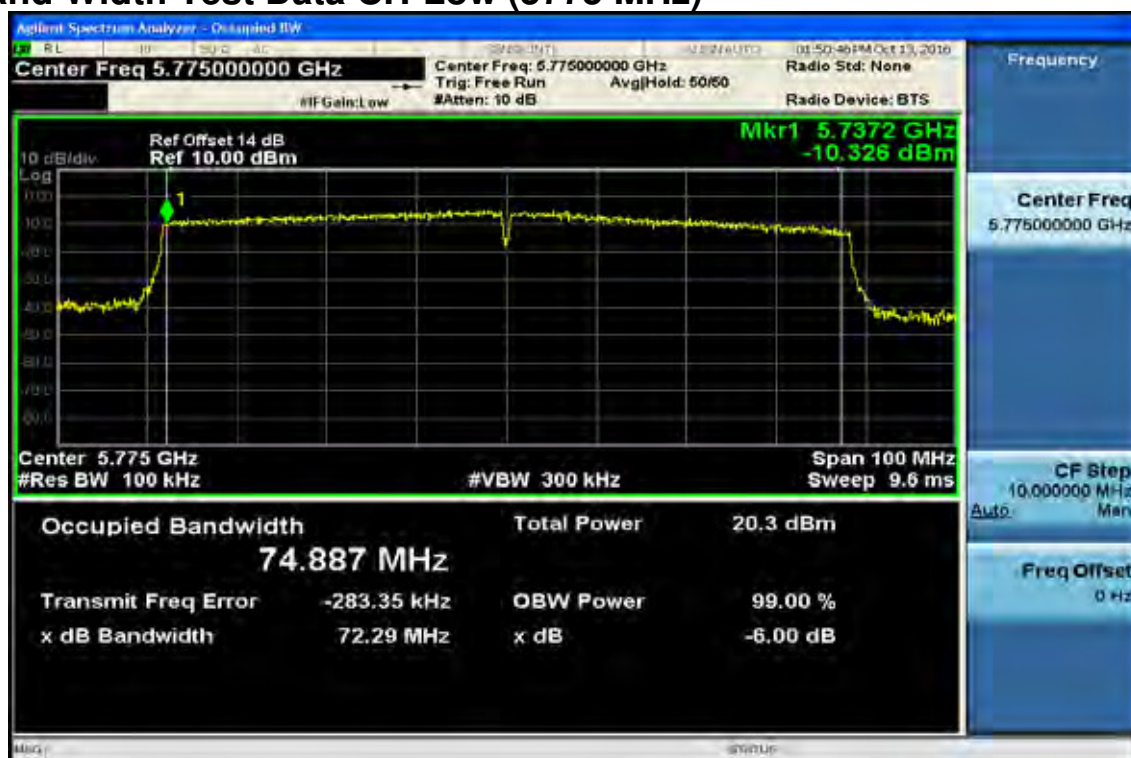
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802.11ac VHT80, 5725~5850 MHz (Aux2) 6dB Band Width Test Data CH-Low (5775 MHz)



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



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1	√	Access Point (Mater device)	1 Watt(30dBm)

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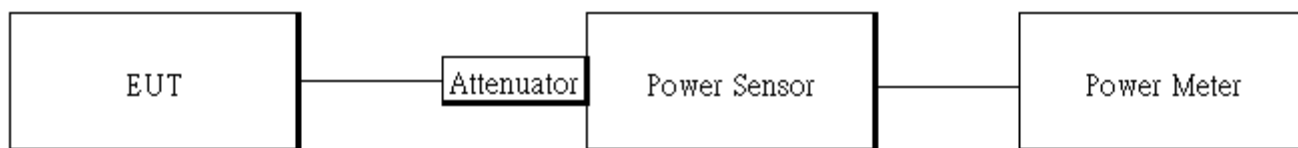
9.2 Measurement Procedure

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
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
36	5180	MCS24	15.61	15.44	15.66	15.81	21.65	146.306	30	PASS
44	5220	MCS24	17.87	17.55	17.75	18.13	23.85	242.700	30	PASS
48	5240	MCS24	15.82	15.73	15.76	16.09	21.87	153.920	30	PASS
149	5745	MCS24	18.31	18.08	18.72	19.14	24.60	288.541	30	PASS
157	5785	MCS24	18.42	18.11	17.94	19.65	24.60	288.704	30	PASS
165	5825	MCS24	18.50	18.42	18.86	19.76	24.94	311.834	30	PASS

CDD Mode:

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
36	5180	MCS24	15.65	15.47	15.67	15.88	21.69	147.589	30	PASS
44	5220	MCS24	17.70	17.40	17.25	17.97	23.61	229.588	30	PASS
48	5240	MCS24	15.84	15.25	15.10	16.26	21.66	146.493	30	PASS
149	5745	MCS24	20.37	20.08	19.89	21.26	26.45	441.911	30	PASS
157	5785	MCS24	20.01	19.4	19.21	20.27	25.76	377.109	30	PASS
165	5825	MCS24	19.85	19.77	20.25	20.97	26.26	422.398	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
38	5190	MCS24	12.91	12.65	13.01	13.41	19.02	79.878	30	PASS
46	5230	MCS24	12.97	13.05	12.44	13.45	19.01	79.669	30	PASS
151	5755	MCS24	19.52	18.66	18.7	19.81	25.22	332.838	30	PASS
159	5795	MCS24	18.65	19.35	18.32	19.2	24.92	310.479	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
42	5210	MCS24	10.89	10.73	10.89	11.41	17.01	50.215	30	PASS
155	5775	MCS24	16.05	14.99	14.42	15.60	21.33	135.799	30	PASS

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Beam Forming Mode:

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
36	5180	MCS24	12.31	13.16	12.90	13.06	18.89	77.452	25.01	PASS
44	5220	MCS24	12.62	12.79	12.45	13.80	18.97	78.859	25.01	PASS
48	5240	MCS24	12.81	12.74	12.64	13.48	18.95	78.541	24.97	PASS
149	5745	MCS24	18.73	18.40	17.99	19.27	24.64	291.306	24.97	PASS
157	5785	MCS24	17.33	18.21	16.88	18.43	23.78	238.713	24.97	PASS
165	5825	MCS24	17.91	17.88	18.37	18.85	24.29	268.621	24.97	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
38	5190	MCS24	9.00	8.62	8.81	9.13	14.91	31.009	25.01	PASS
46	5230	MCS24	12.73	12.57	12.09	12.88	18.60	72.411	25.01	PASS
151	5755	MCS24	14.57	14.58	15.44	15.69	21.12	129.412	24.97	PASS
159	5795	MCS24	17.02	17.11	16.85	17.28	23.09	203.628	24.97	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
42	5210	MCS24	7.81	7.69	7.52	8.99	14.06	25.489	25.01	PASS
155	5775	MCS24	10.03	10.13	11.07	11.11	16.64	46.079	24.97	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1	√	Access Point (Mater device)	17dBm/ MHz

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10.2 Measurement Procedure

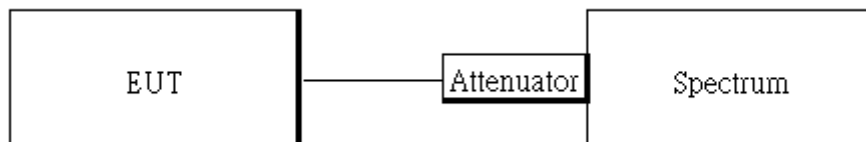
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1**
Set RBW=1MHz, VBW=3MHz, where span 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
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
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	-2.01	17	-19.01
5220	0.30	17	-16.70
5240	4.35	17	-12.65
5745	13.86	30	-16.14
5785	12.79	30	-17.21
5825	12.84	30	-17.16

CDD Mode:

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-13.29	17	-30.29
5220	-18.92	17	-35.92
5240	-17.46	17	-34.46
5745	16.96	30	-13.04
5785	16.20	30	-13.80
5825	15.96	30	-14.04

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-26.33	17	-43.33
5230	-22.35	17	-39.35
5755	14.48	30	-15.52
5795	13.28	30	-16.72

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-21.02	17	-38.02
5775	10.62	30	-19.38

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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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f (886-2) 2298-0488

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



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



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CDD Mode:

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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f (886-2) 2298-0488

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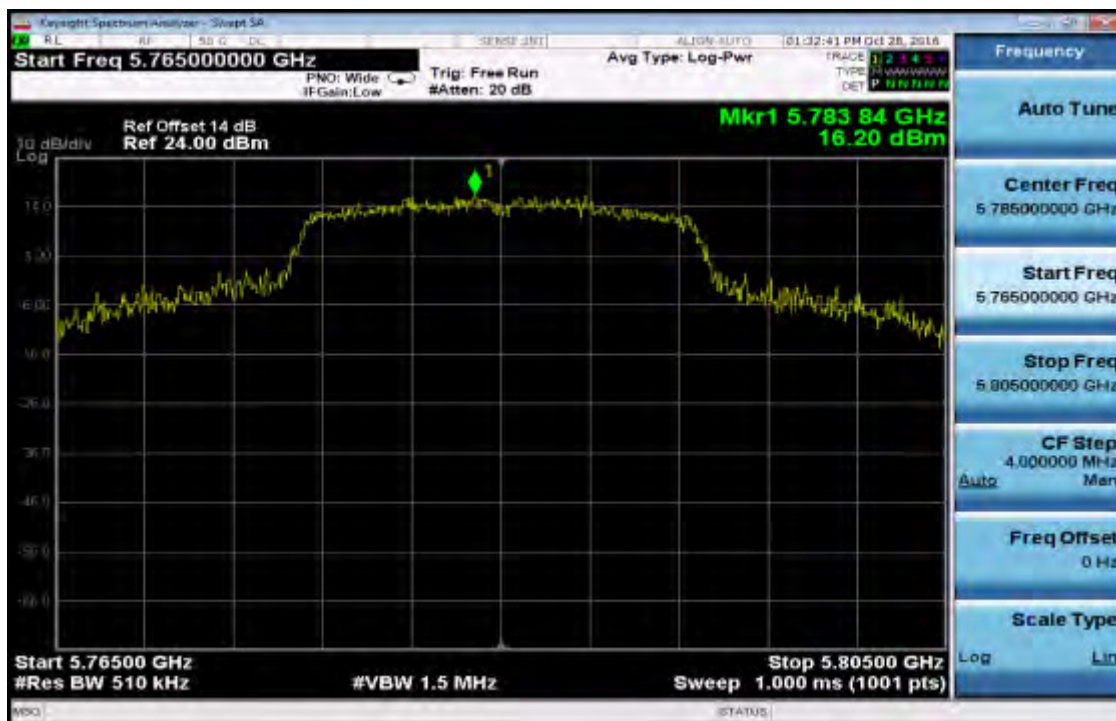
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802.11n HT20, 5725~5850 MHz

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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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, 5725~5850 MHz

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



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

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 5.725-5.85 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)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, 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	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	143303	12/23/2015	12/22/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
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	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

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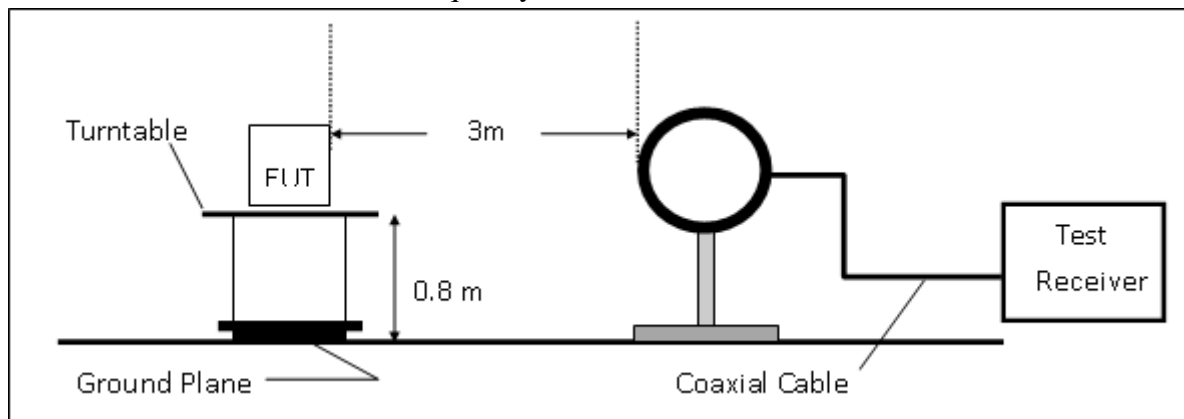
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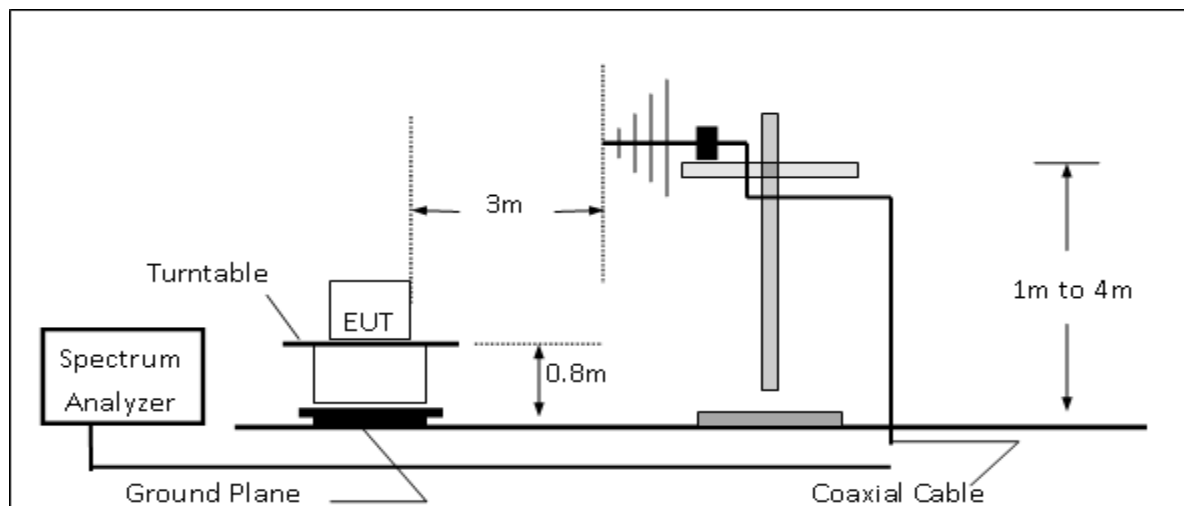
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11.3 Test SET-UP

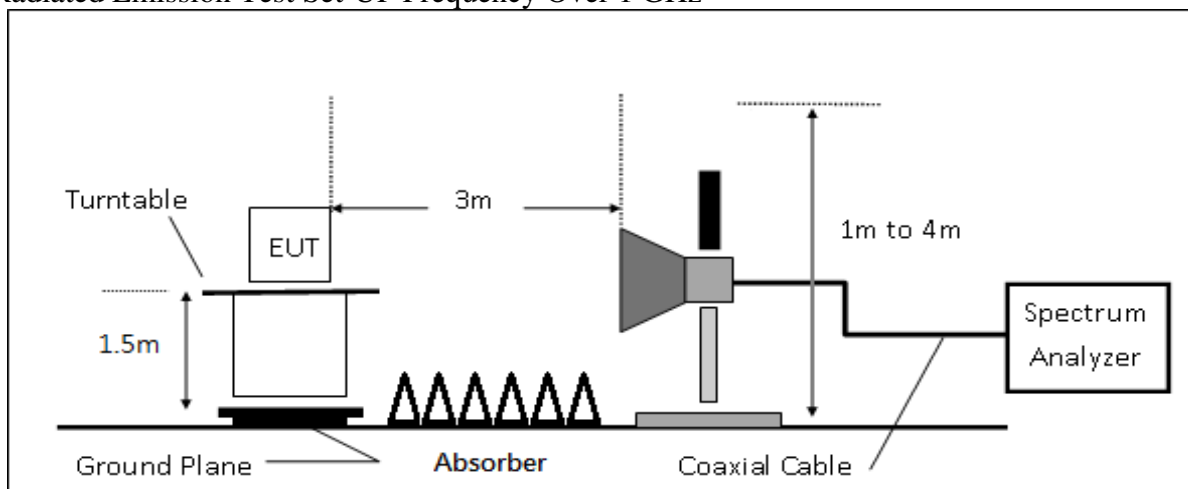
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 v01r01.
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

Refer to attach tabular data sheets.

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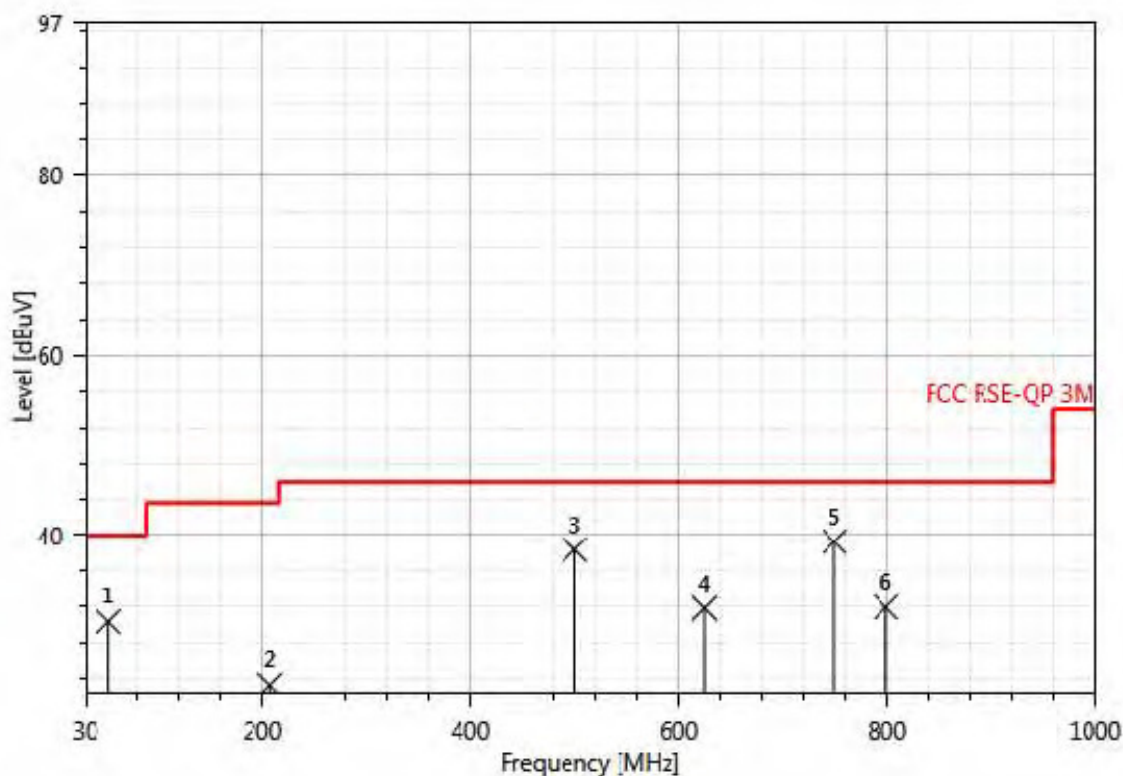
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
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
52.31	S	Peak	30.42	38.18	-7.77	40.00	-9.58
207.51	S	Peak	23.37	33.10	-9.73	43.50	-20.13
500.45	S	Peak	38.40	41.08	-2.69	46.00	-7.60
624.61	S	Peak	31.87	31.72	0.15	46.00	-14.13
749.74	S	Peak	39.29	36.57	2.72	46.00	-6.71
799.21	S	Peak	31.99	28.86	3.14	46.00	-14.01

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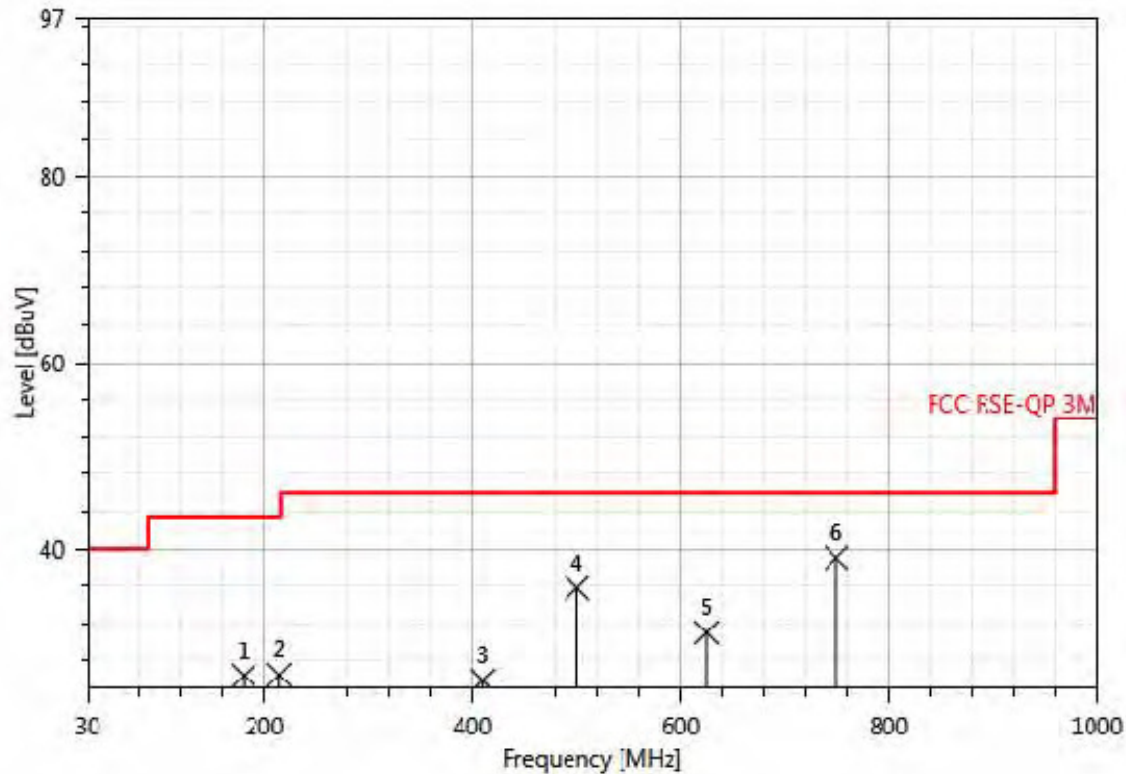
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Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
180.35	S	Peak	26.43	35.11	-8.68	43.50	-17.07
214.30	S	Peak	26.51	36.06	-9.54	43.50	-16.99
410.24	S	Peak	25.90	29.53	-3.62	46.00	-20.10
500.45	S	Peak	35.81	38.49	-2.69	46.00	-10.19
624.61	S	Peak	31.03	30.88	0.15	46.00	-14.97
749.74	S	Peak	39.08	36.36	2.72	46.00	-6.92

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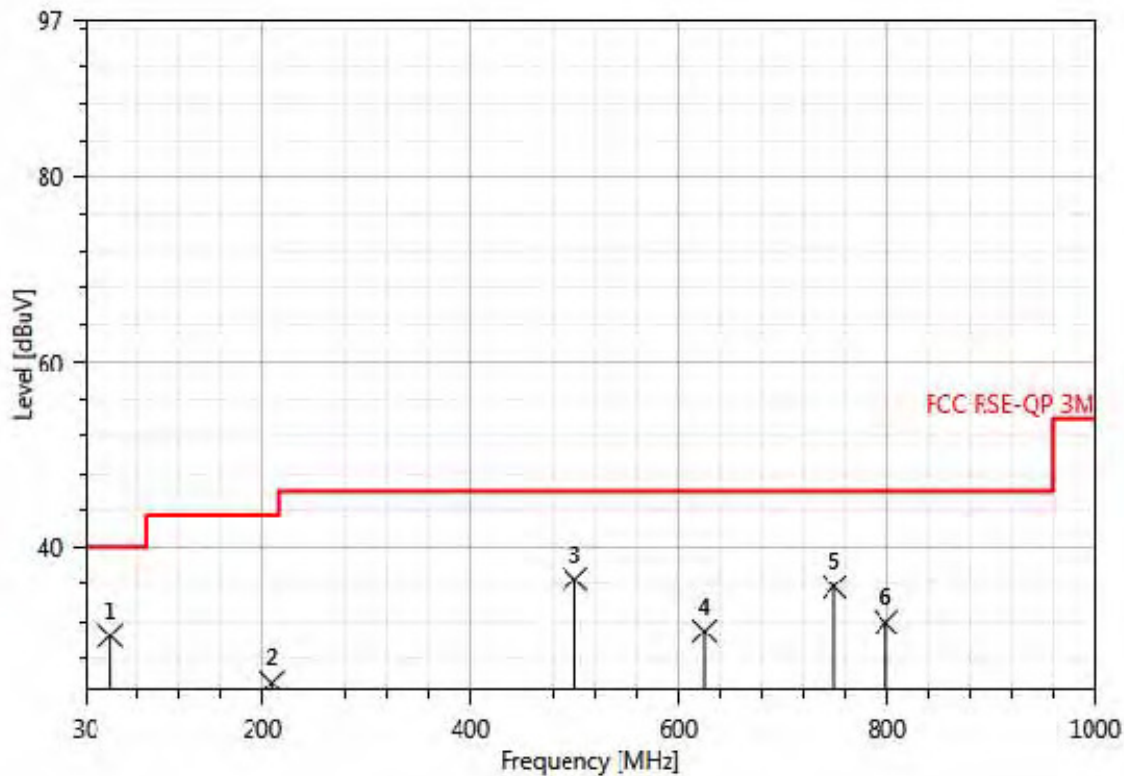
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	10/06/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
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
54.25	S	Peak	30.44	38.26	-7.82	40.00	-9.56
209.45	S	Peak	25.38	35.14	-9.77	43.50	-18.12
500.45	S	Peak	36.55	39.23	-2.69	46.00	-9.45
624.61	S	Peak	30.93	30.77	0.15	46.00	-15.07
749.74	S	Peak	35.71	32.99	2.72	46.00	-10.29
799.21	S	Peak	31.90	28.76	3.14	46.00	-14.10

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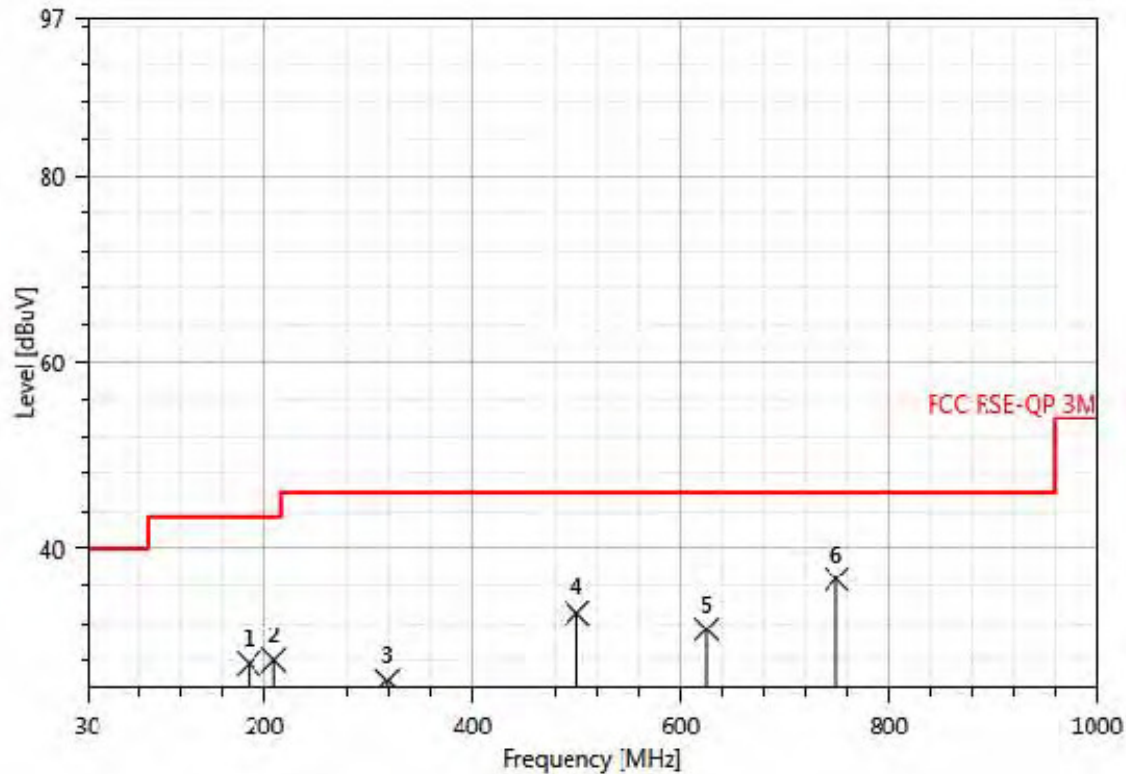
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Operation Mode :	802.11aB4	Test Date :	10/06/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
185.20	S	Peak	27.71	36.76	-9.06	43.50	-15.79
209.45	S	Peak	28.07	37.84	-9.77	43.50	-15.43
318.09	S	Peak	25.86	31.24	-5.38	46.00	-20.14
500.45	S	Peak	33.11	35.80	-2.69	46.00	-12.89
624.61	S	Peak	31.34	31.19	0.15	46.00	-14.66
749.74	S	Peak	36.72	34.00	2.72	46.00	-9.28

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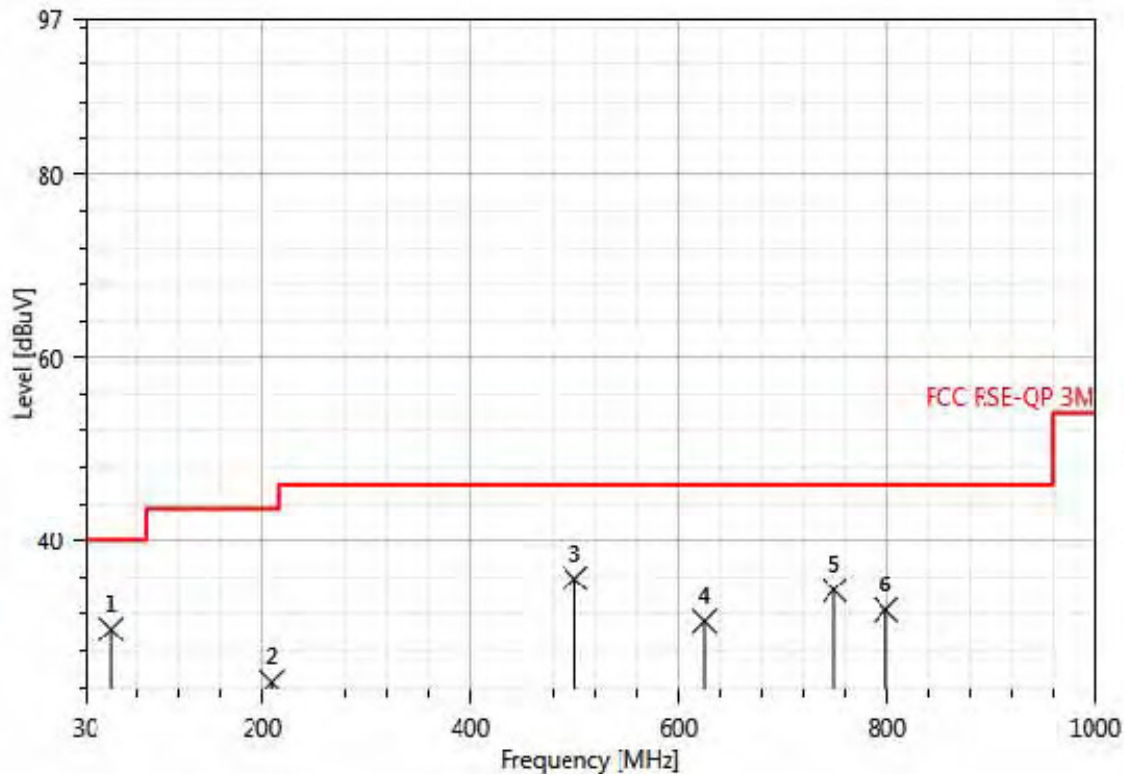
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802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	10/06/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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
55.22	S	Peak	30.32	38.19	-7.86	40.00	-9.68
209.45	S	Peak	24.58	34.35	-9.77	43.50	-18.92
500.45	S	Peak	35.87	38.55	-2.69	46.00	-10.13
624.61	S	Peak	31.24	31.08	0.15	46.00	-14.76
749.74	S	Peak	34.58	31.86	2.72	46.00	-11.42
799.21	S	Peak	32.44	29.30	3.14	46.00	-13.56

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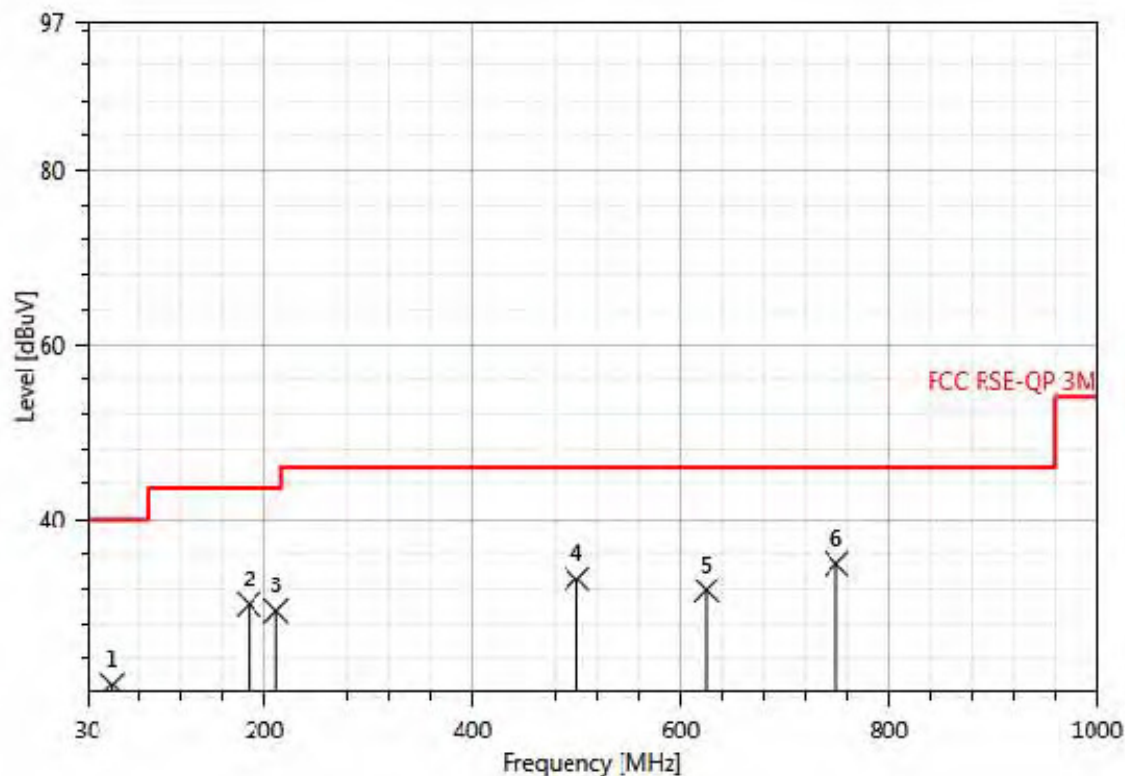
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Operation Mode : 802.11ac80B1 Test Date : 10/06/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
54.25	S	Peak	21.05	28.87	-7.82	40.00	-18.95
185.20	S	Peak	30.24	39.30	-9.06	43.50	-13.26
211.39	S	Peak	29.49	39.20	-9.71	43.50	-14.01
500.45	S	Peak	33.15	35.84	-2.69	46.00	-12.85
624.61	S	Peak	31.82	31.67	0.15	46.00	-14.18
749.74	S	Peak	34.93	32.21	2.72	46.00	-11.07

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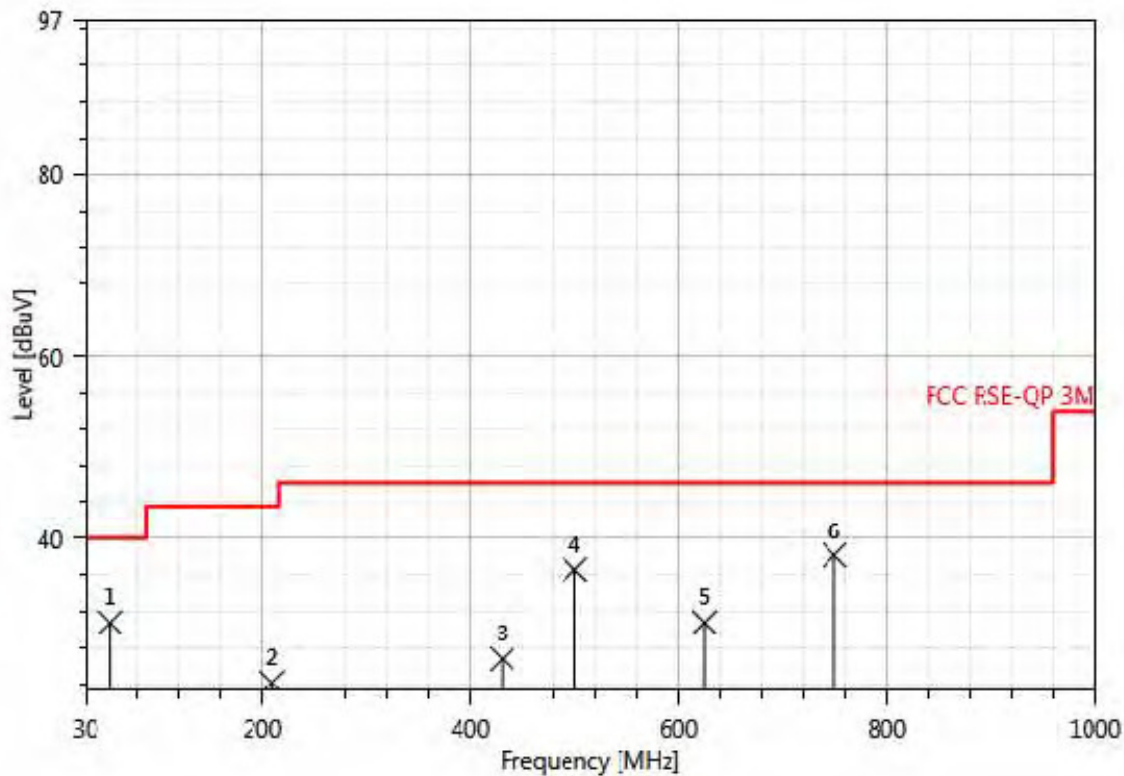
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802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	10/06/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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	dBμV/m	dBμV/m	dB	dBuV/m	dB
54.25	S	Peak	30.73	38.55	-7.82	40.00	-9.27
209.45	S	Peak	24.14	33.91	-9.77	43.50	-19.36
430.61	S	Peak	26.74	30.07	-3.33	46.00	-19.26
500.45	S	Peak	36.61	39.29	-2.69	46.00	-9.39
624.61	S	Peak	30.74	30.59	0.15	46.00	-15.26
749.74	S	Peak	38.15	35.43	2.72	46.00	-7.85

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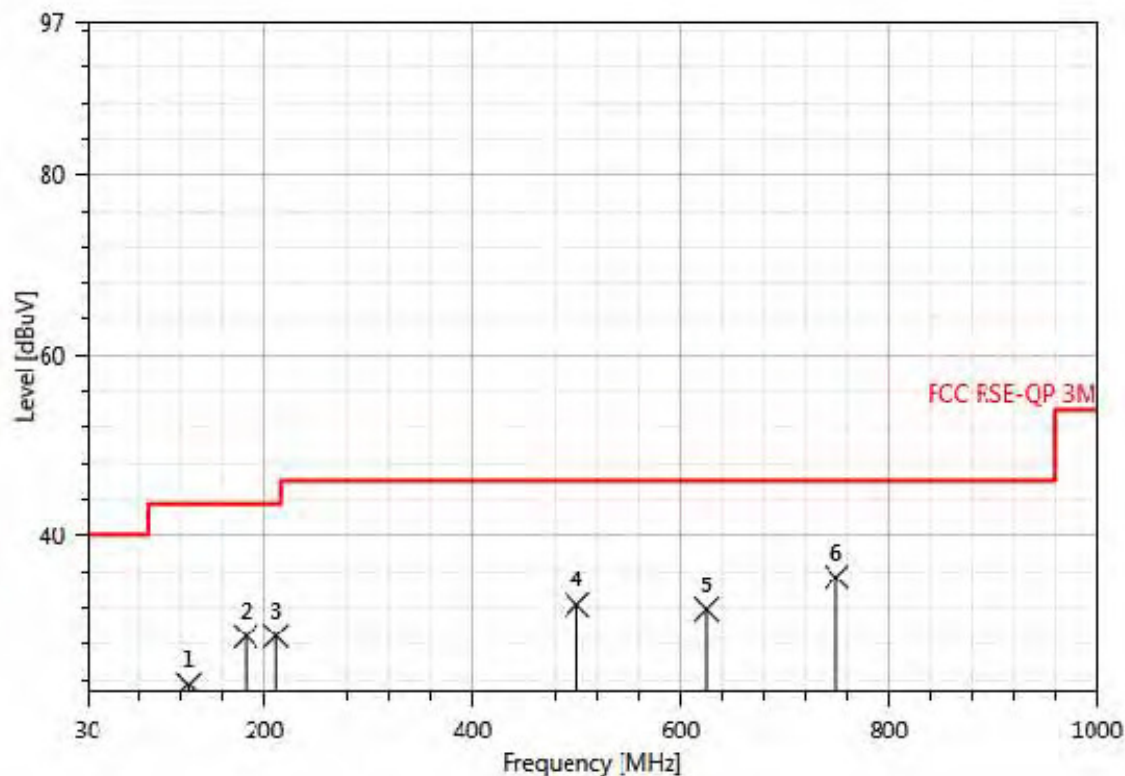
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Operation Mode : 802.11ac80B4 Test Date : 10/06/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
127.00	S	Peak	23.48	33.26	-9.77	43.50	-20.02
182.29	S	Peak	28.82	37.63	-8.82	43.50	-14.68
211.39	S	Peak	28.85	38.56	-9.71	43.50	-14.65
500.45	S	Peak	32.30	34.98	-2.69	46.00	-13.70
624.61	S	Peak	31.82	31.67	0.15	46.00	-14.18
749.74	S	Peak	35.39	32.67	2.72	46.00	-10.61

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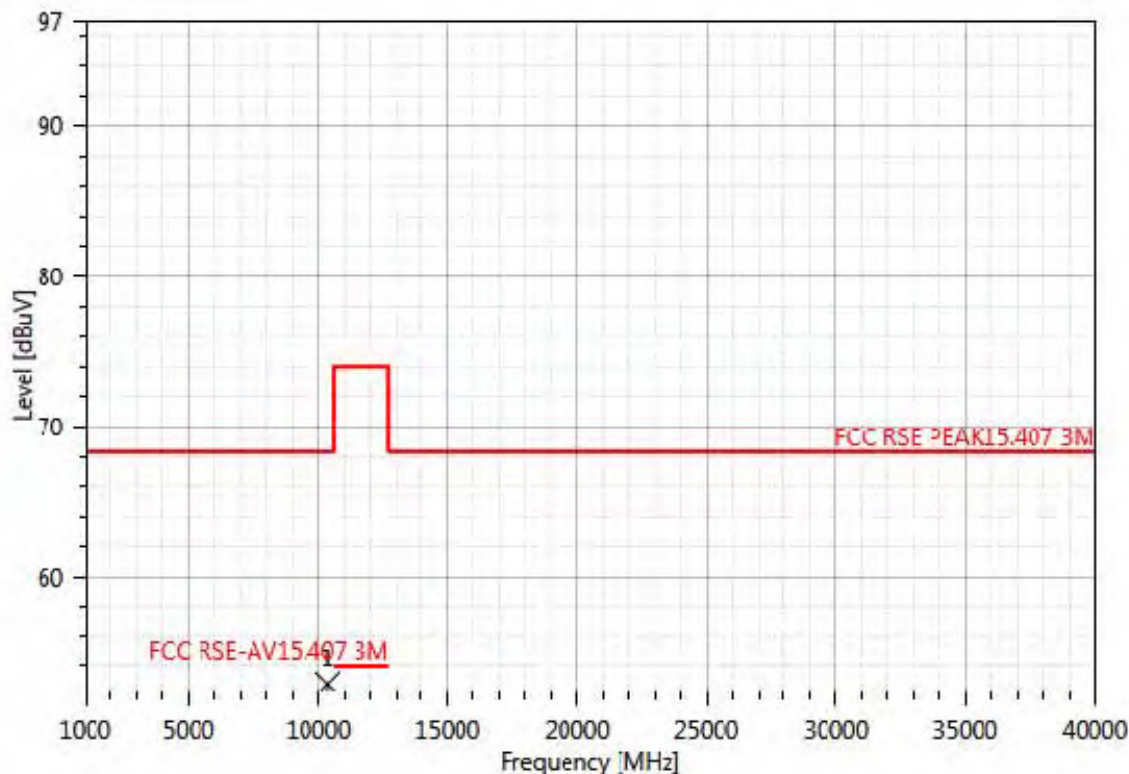
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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
10360.00	H	QP/AV/PK	52.84	34.54	18.29	68.30	-15.46

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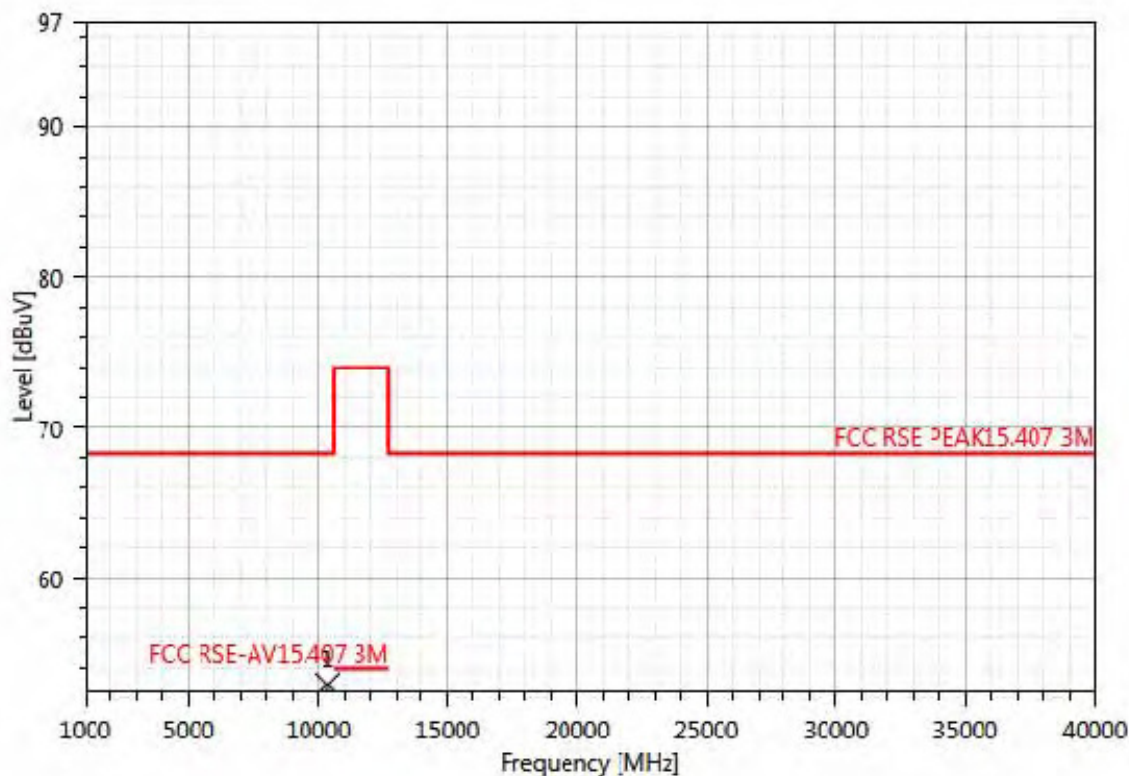
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Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10360.00	H	Peak	52.93	34.63	18.29	68.30	-15.37

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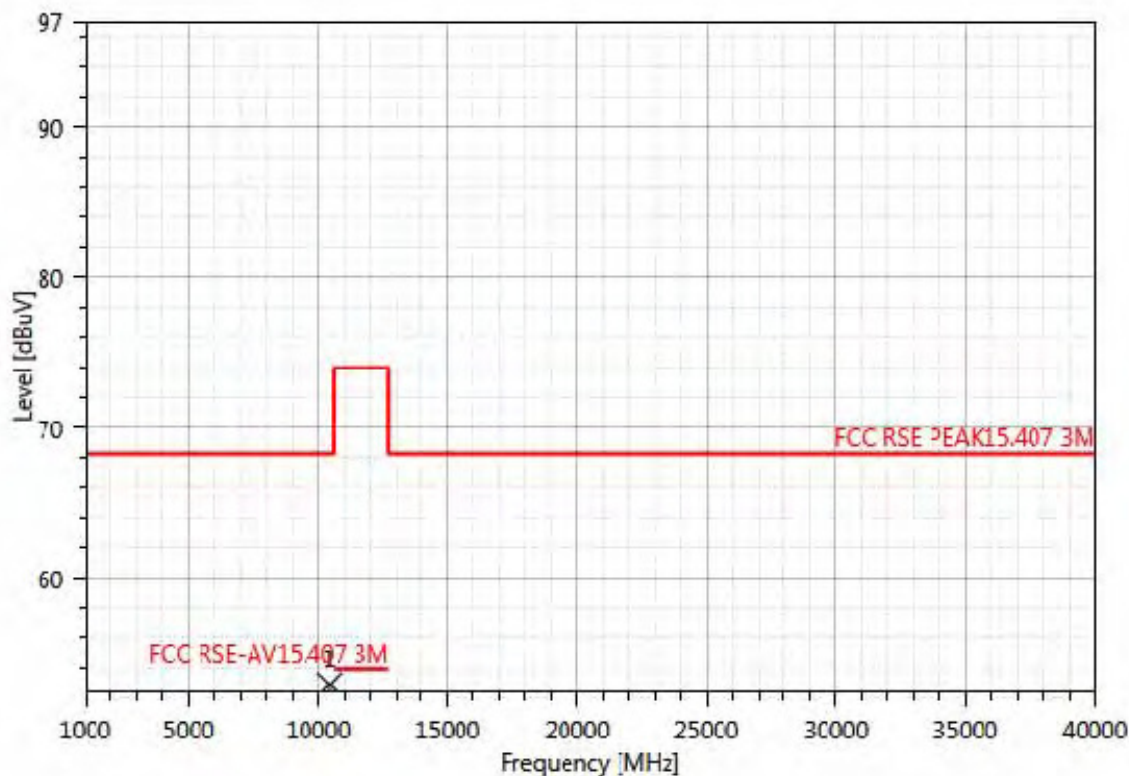
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Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	52.95	34.27	18.68	68.30	-15.35

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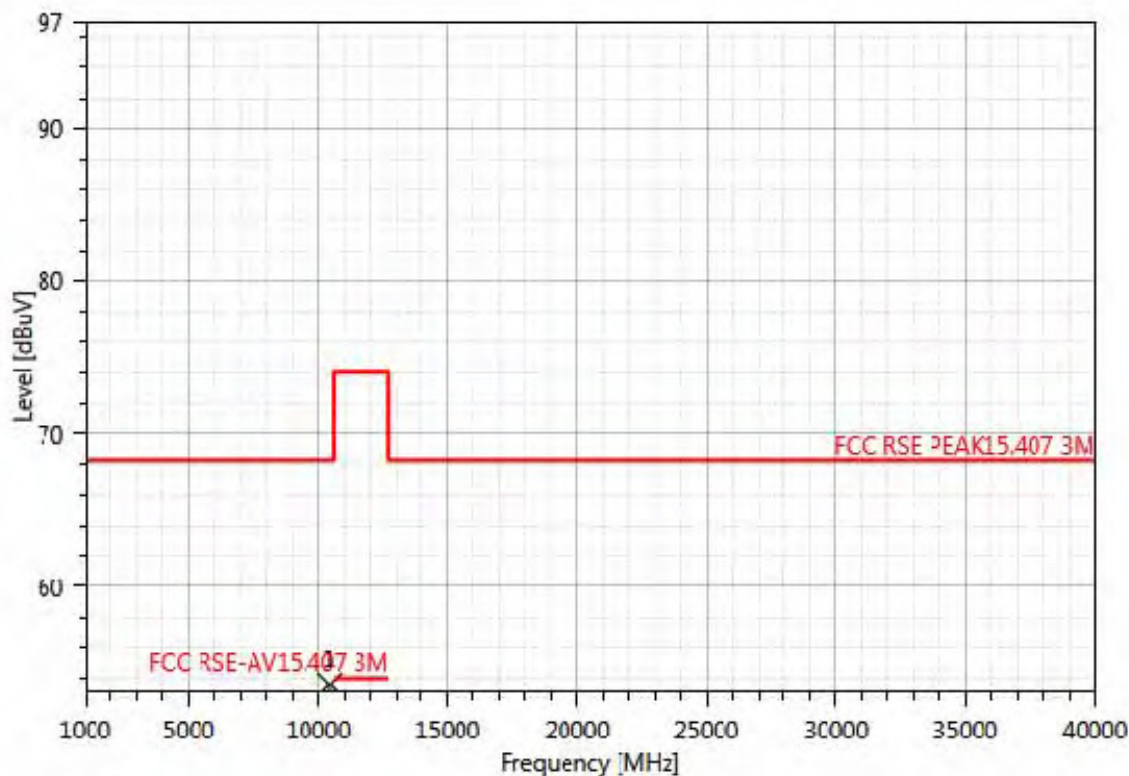
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Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	53.58	34.89	18.68	68.30	-14.72

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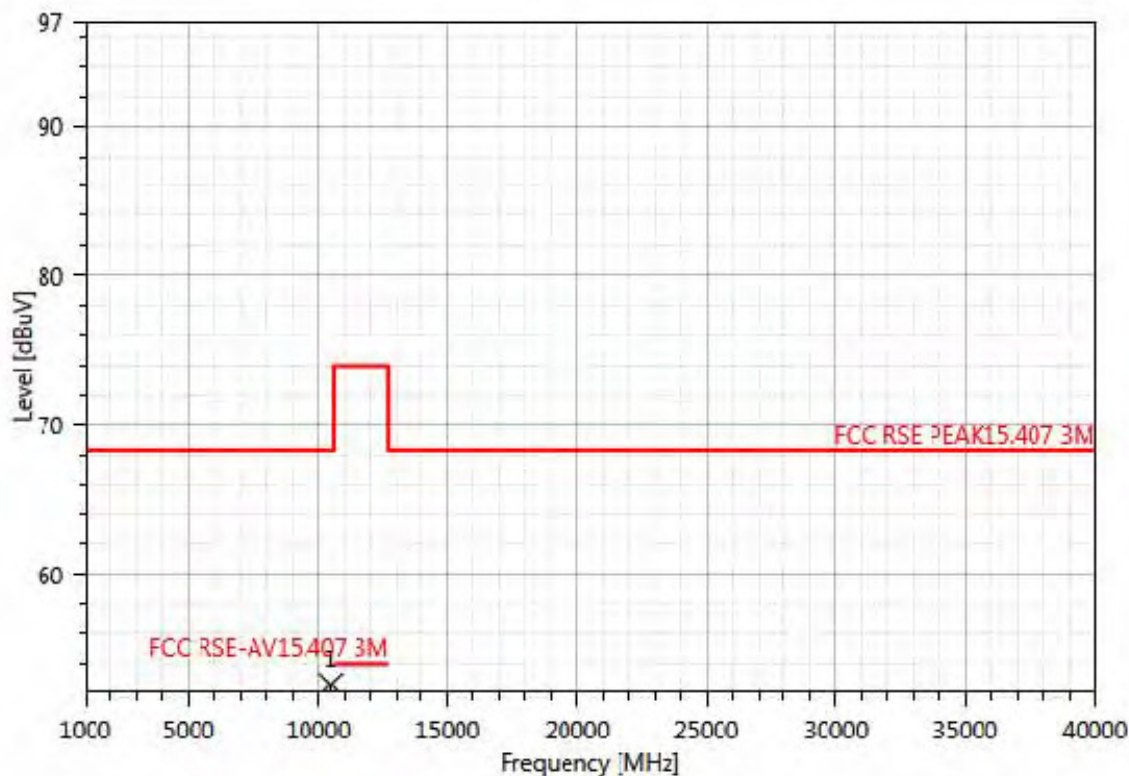
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Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	
10480.00	H	Peak	52.63	34.33	18.29	68.30	-15.67

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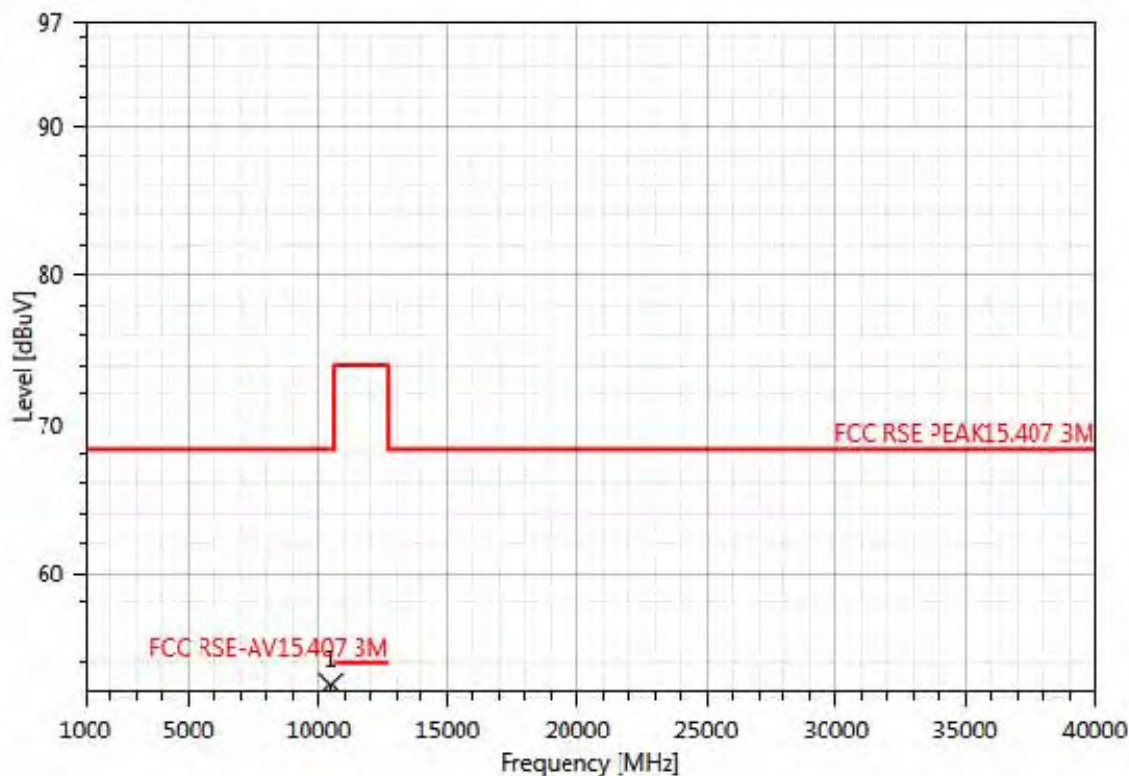
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Operation Mode :	802.11aB1	Test Date :	10/06/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	52.53	34.23	18.29	68.30	-15.77

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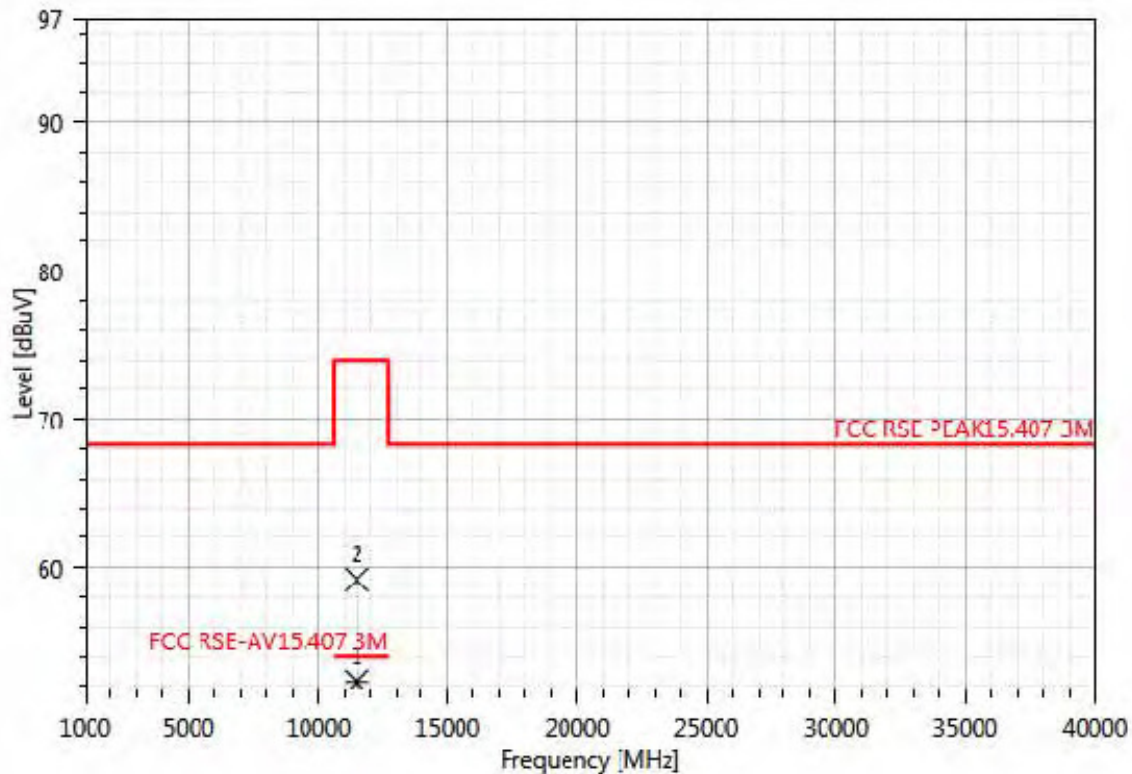
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	10/06/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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
11490.00	H	Average	52.31	31.89	20.42	54.00	-1.69
11490.00	H	Peak	59.20	38.78	20.42	74.00	-14.80

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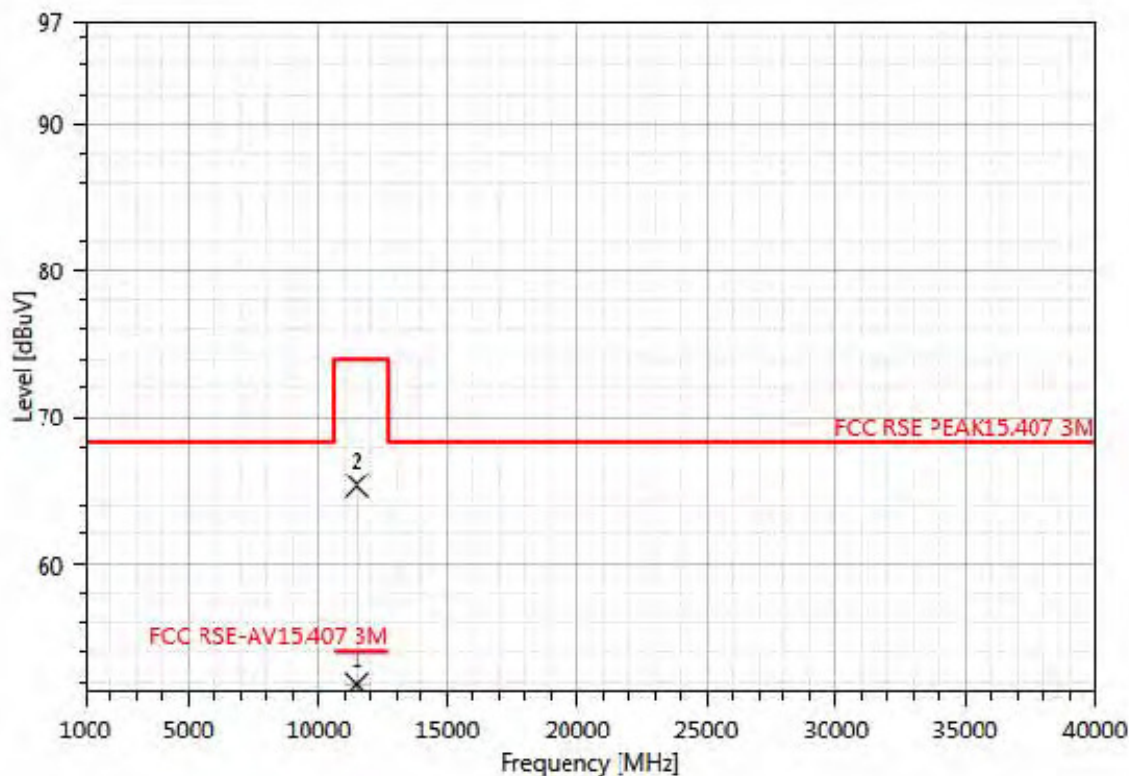
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Operation Mode :	802.11aB4	Test Date :	10/06/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11490.00	H	Average	51.78	31.36	20.42	54.00	-2.22
11490.00	H	Peak	65.35	44.93	20.42	74.00	-8.65

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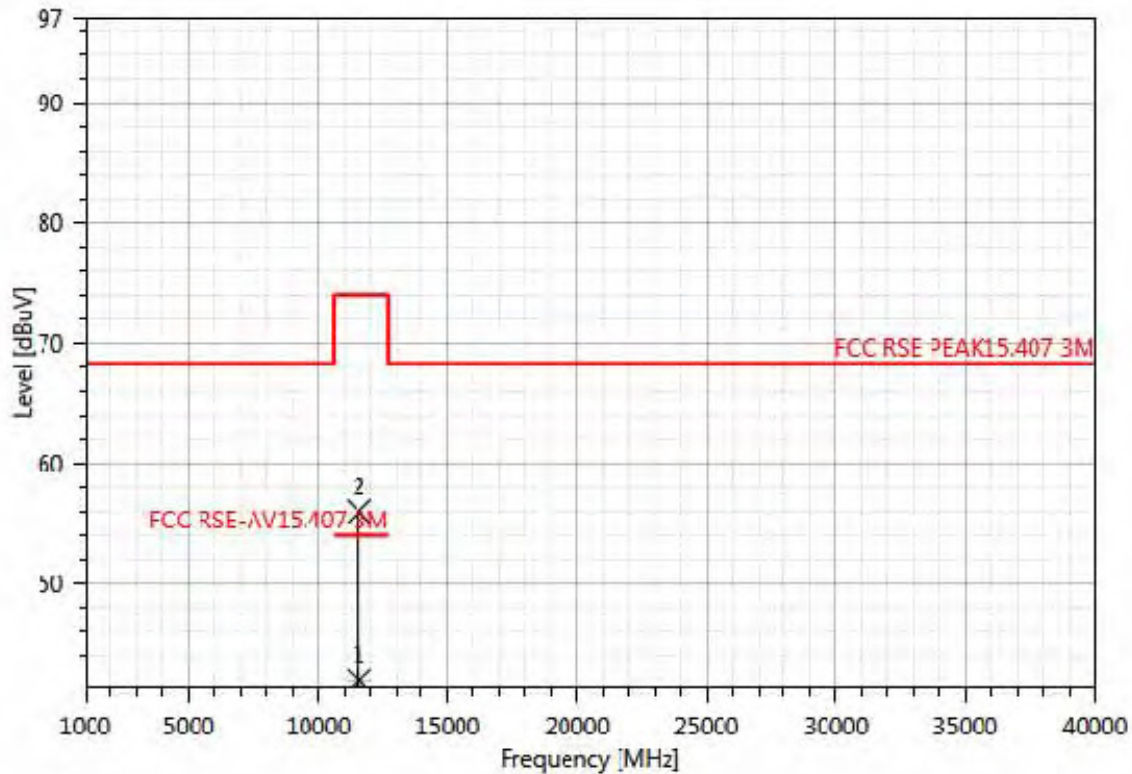
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Operation Mode : 802.11aB4
Fundamental Frequency : 5785 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 10/06/2016
Temp. / Humi. : 23 deg_C / 62 RH
Test Engineer : Edward
Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11570.00	H	Average	41.98	21.39	20.59	54.00	-12.02
11570.00	H	Peak	56.01	35.42	20.59	74.00	-17.99

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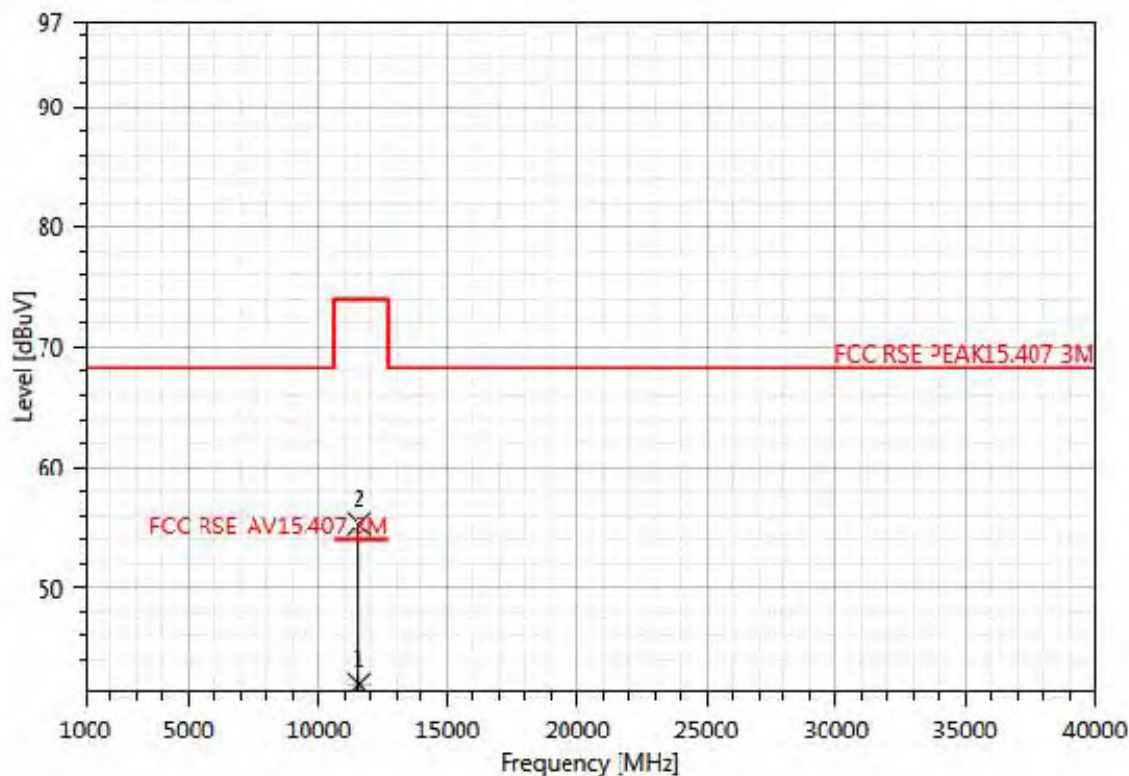
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5785 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 10/06/2016
 Temp. / Humi. : 23 deg_C / 62 RH
 Test Engineer : Edward
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11570.00	H	Average	42.01	21.42	20.59	54.00	-11.99
11570.00	H	Peak	55.33	34.74	20.59	74.00	-18.67

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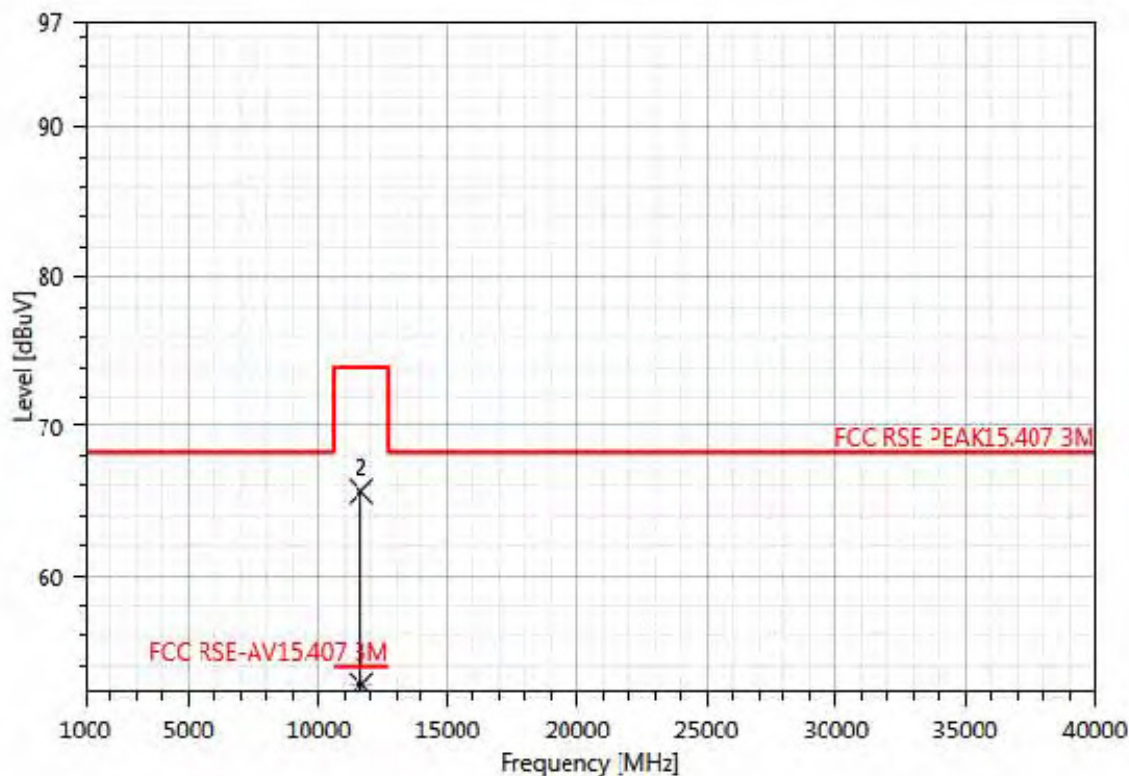
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Operation Mode :	802.11aB4	Test Date :	10/06/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11650.00	H	Average	52.79	32.36	20.43	54.00	-1.21
11650.00	H	Peak	65.64	45.21	20.43	74.00	-8.36

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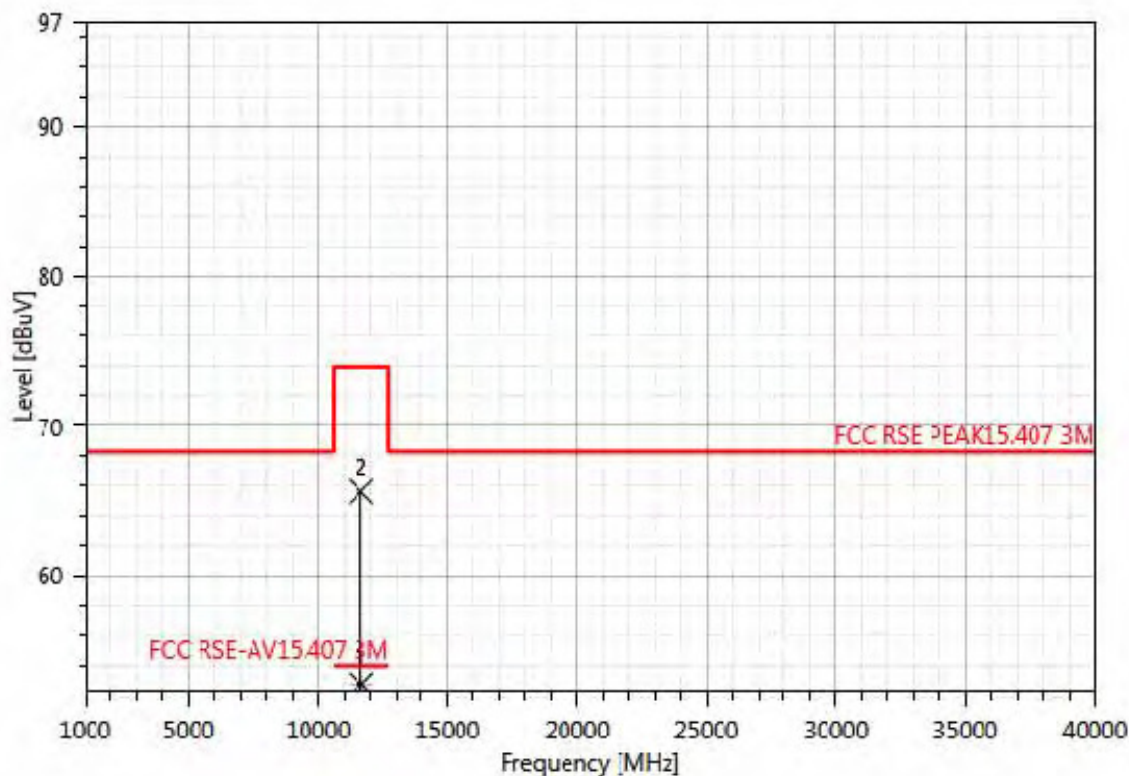
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Operation Mode :	802.11aB4	Test Date :	10/06/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11650.00	H	Average	52.74	32.31	20.43	54.00	-1.26
11650.00	H	Peak	65.61	45.18	20.43	74.00	-8.39

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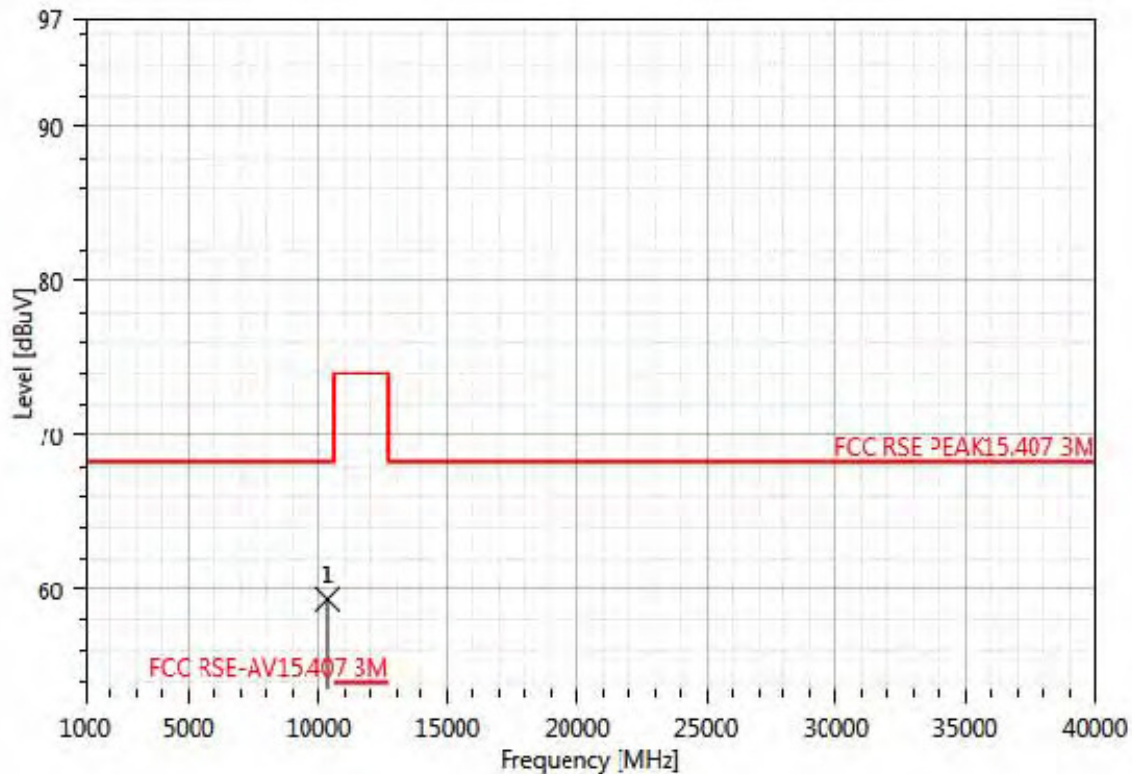
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CDD Mode:

Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	10/06/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10360.00	H	Peak	59.32	41.02	18.29	68.30	-8.98

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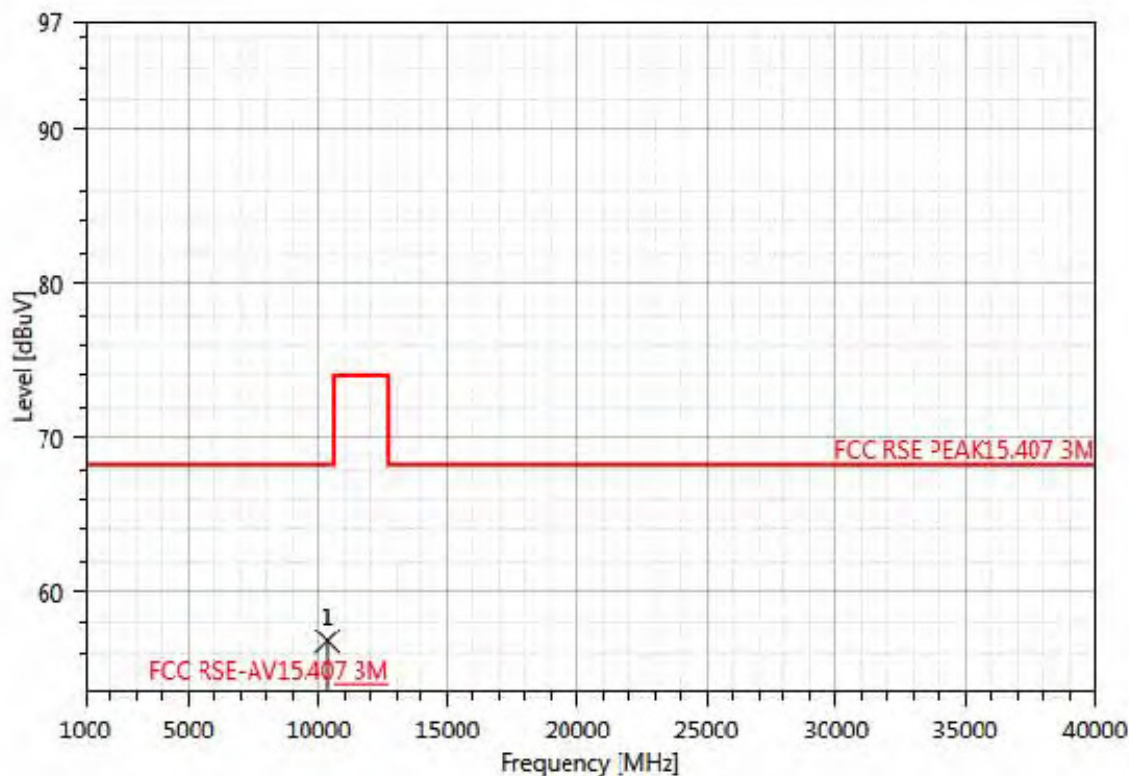
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Operation Mode :	802.11n20B1	Test Date :	10/06/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10360.00	H	Peak	56.80	38.50	18.29	68.30	-11.50

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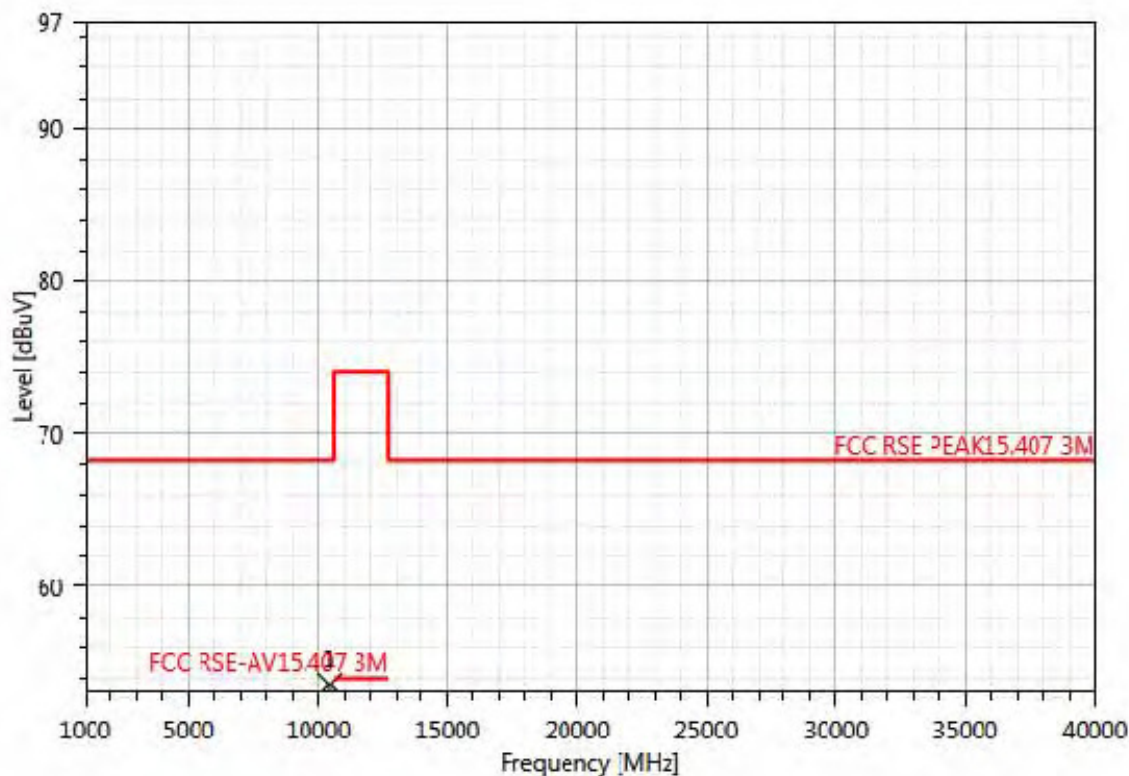
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Operation Mode :	802.11n20B1	Test Date :	10/06/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	53.58	34.90	18.68	68.30	-14.72

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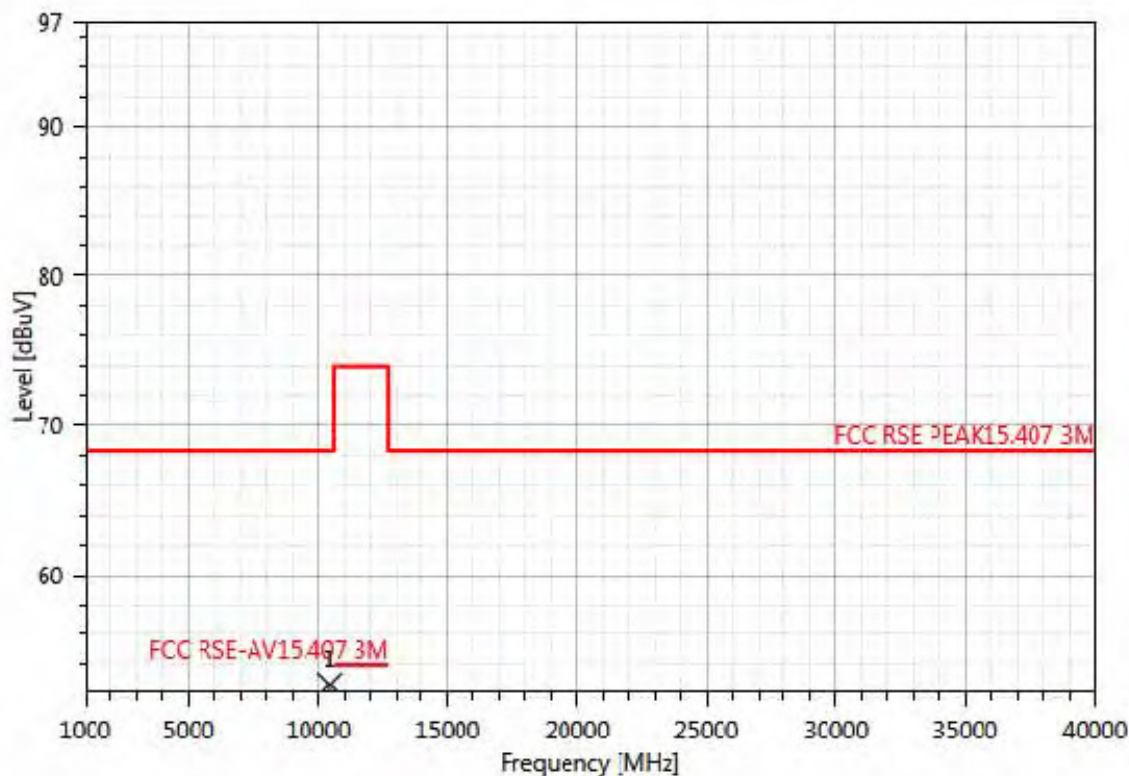
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Operation Mode :	802.11n20B1	Test Date :	10/06/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	52.68	34.00	18.68	68.30	-15.62

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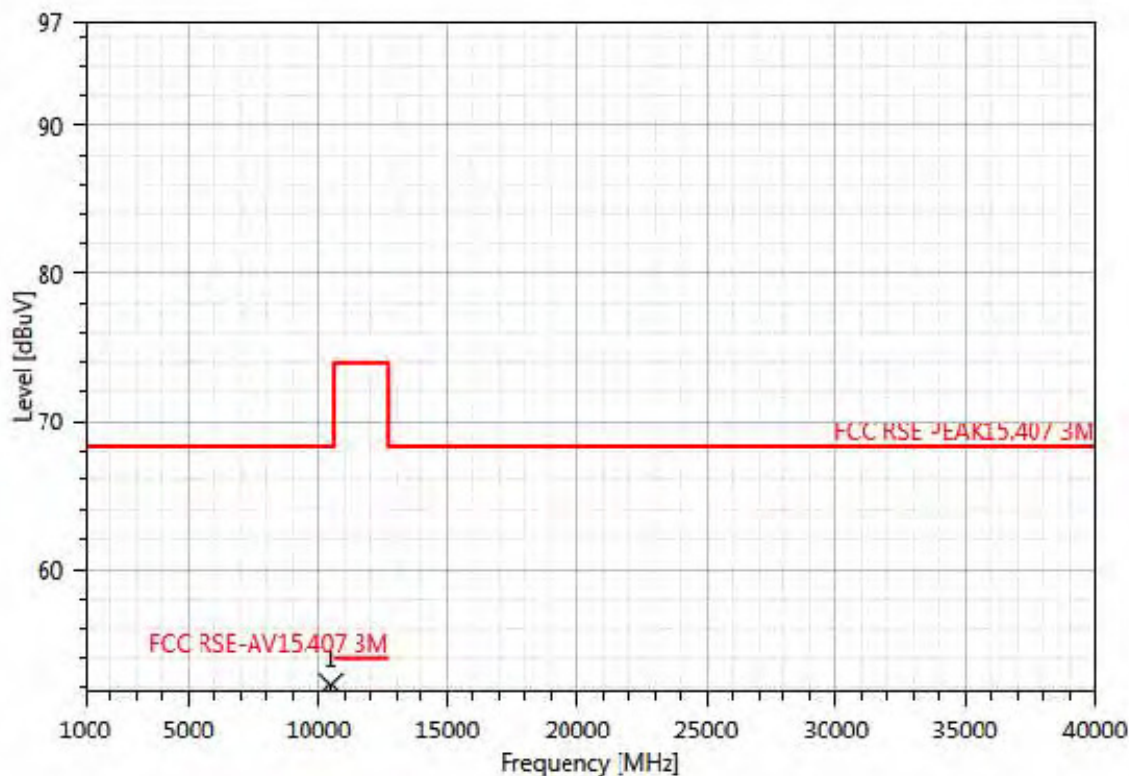
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Operation Mode : 802.11n20B1
 Fundamental Frequency : 5240 MHz
 Operation Band : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 10/06/2016
 Temp. / Humi. : 23 deg_C / 62 RH
 Test Engineer : Edward
 Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10480.00	H	QP/AV/PK	52.23	33.94	18.29	68.30	-16.07

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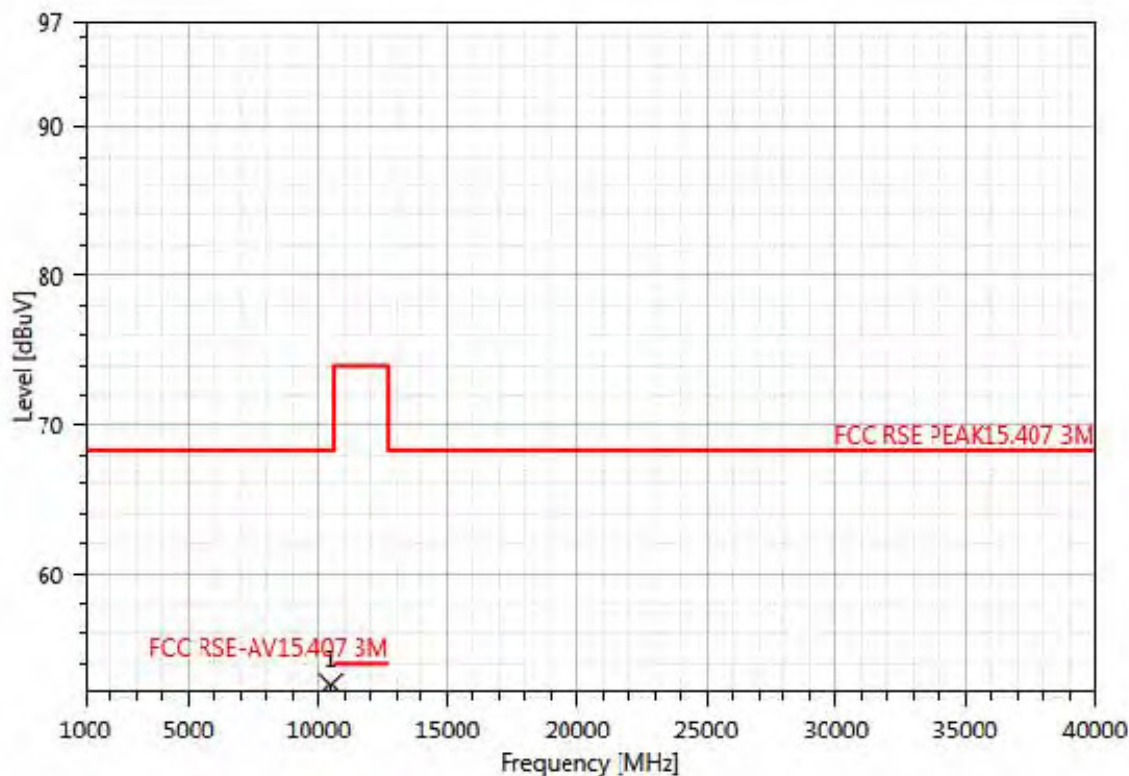
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Operation Mode :	802.11n20B1	Test Date :	10/06/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	52.61	34.32	18.29	68.30	-15.69

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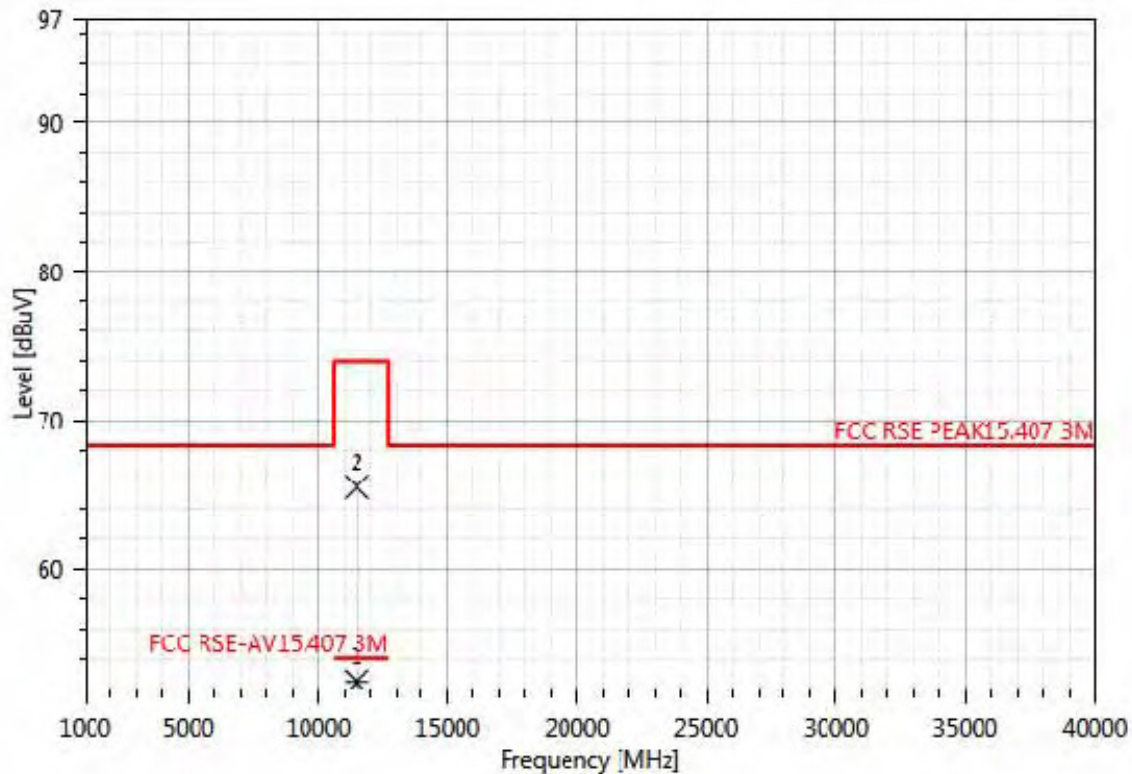
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	10/06/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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	52.43	32.01	20.42	54.00	-1.57
11490.00	H	Peak	65.53	45.11	20.42	74.00	-8.47

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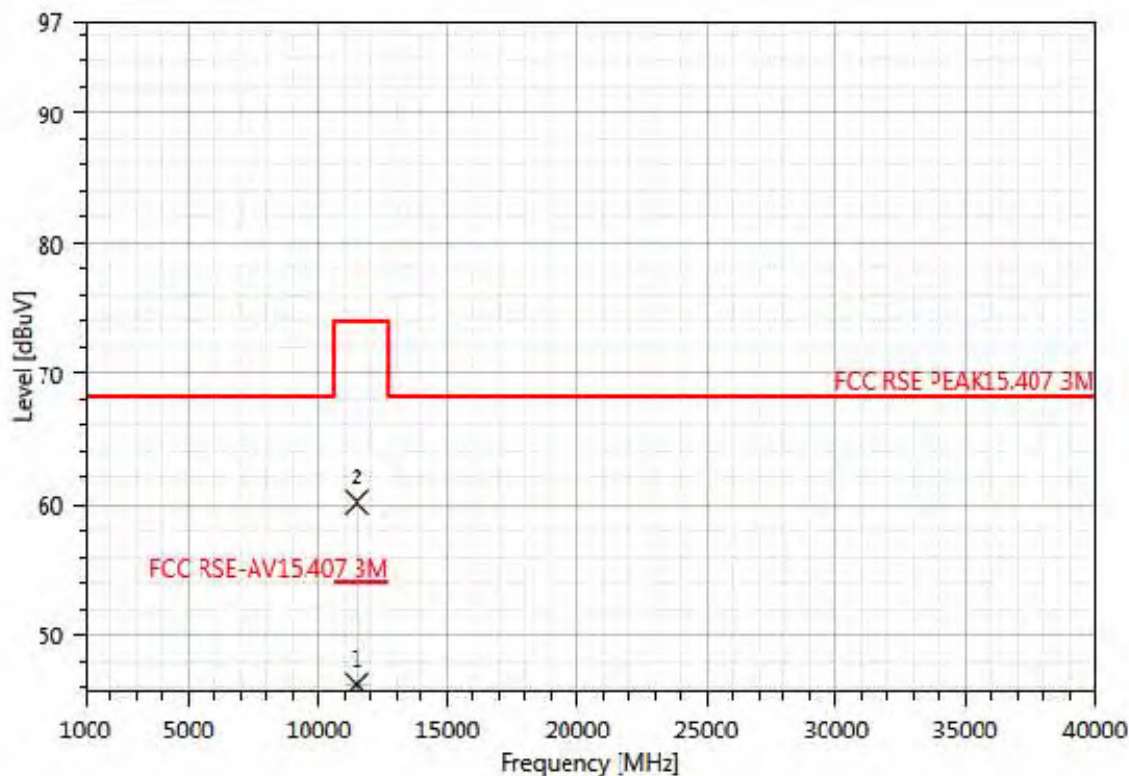
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Operation Mode :	802.11n20B4	Test Date :	10/06/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11490.00	H	Average	46.23	25.81	20.42	54.00	-7.77
11490.00	H	Peak	60.19	39.77	20.42	74.00	-13.81

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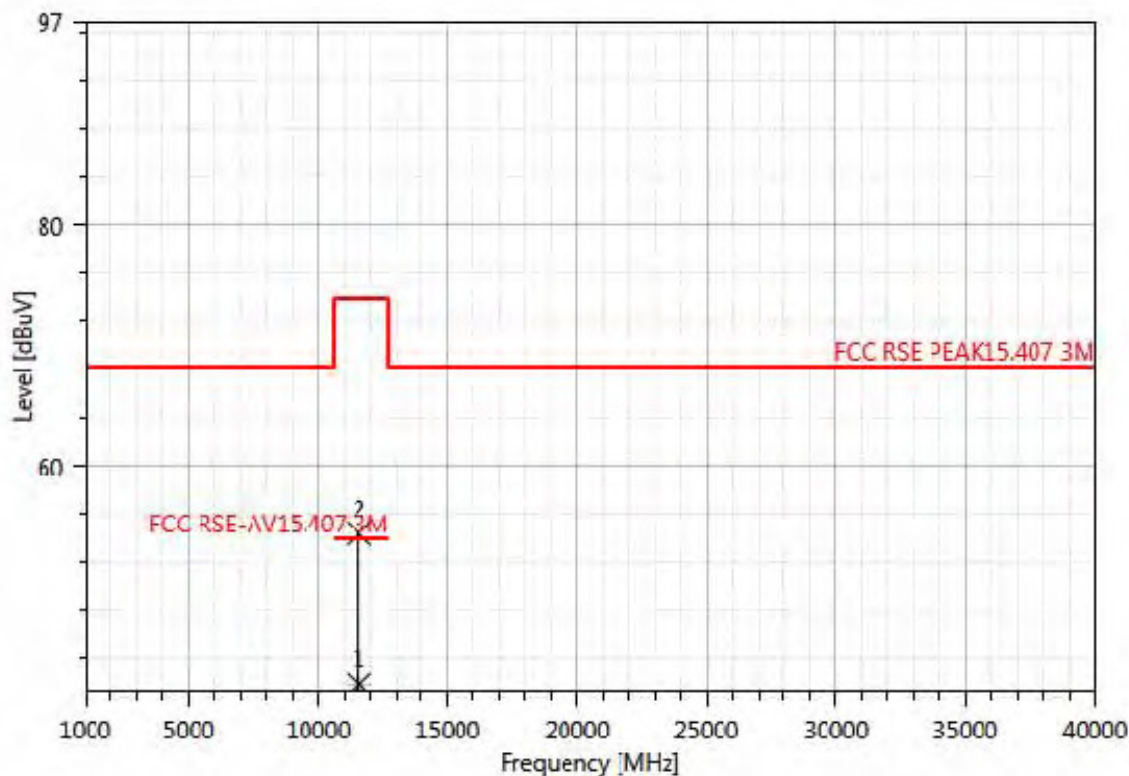
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Operation Mode :	802.11n20B4	Test Date :	10/06/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11570.00	H	Average	41.87	21.28	20.59	54.00	-12.13
11570.00	H	Peak	54.43	33.84	20.59	74.00	-19.57

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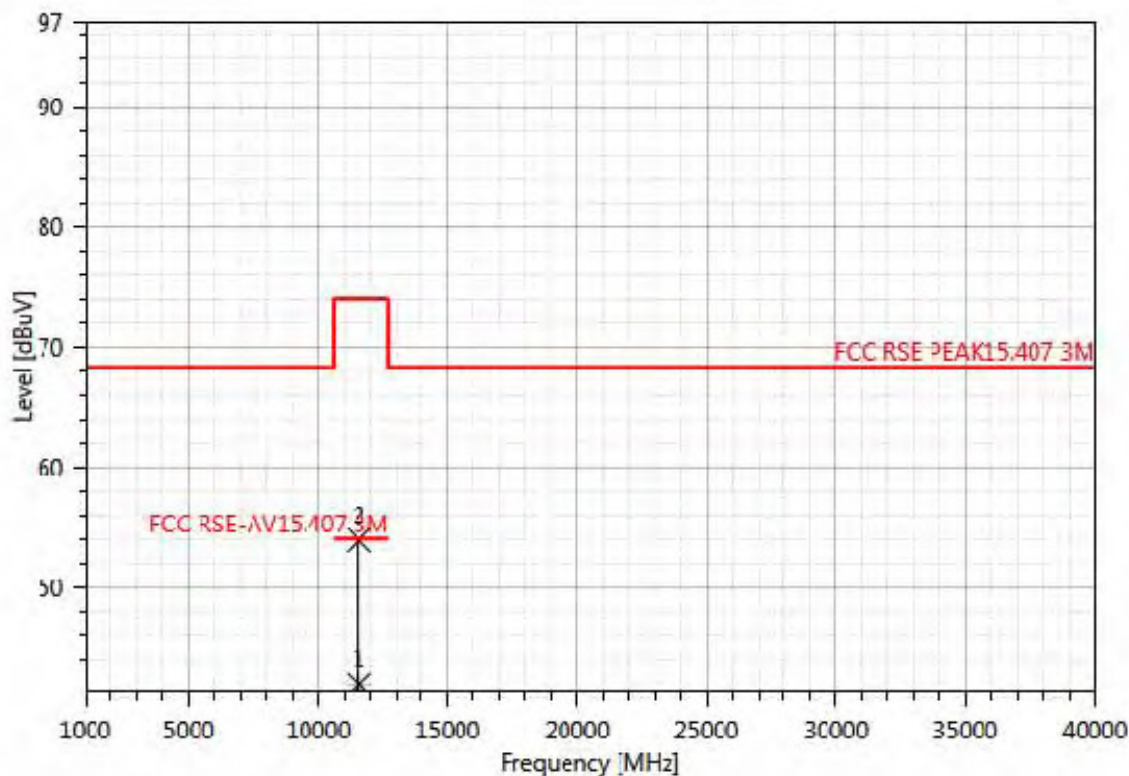
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Operation Mode :	802.11n20B4	Test Date :	10/06/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11570.00	H	Average	41.93	21.34	20.59	54.00	-12.07
11570.00	H	Peak	53.92	33.33	20.59	74.00	-20.08

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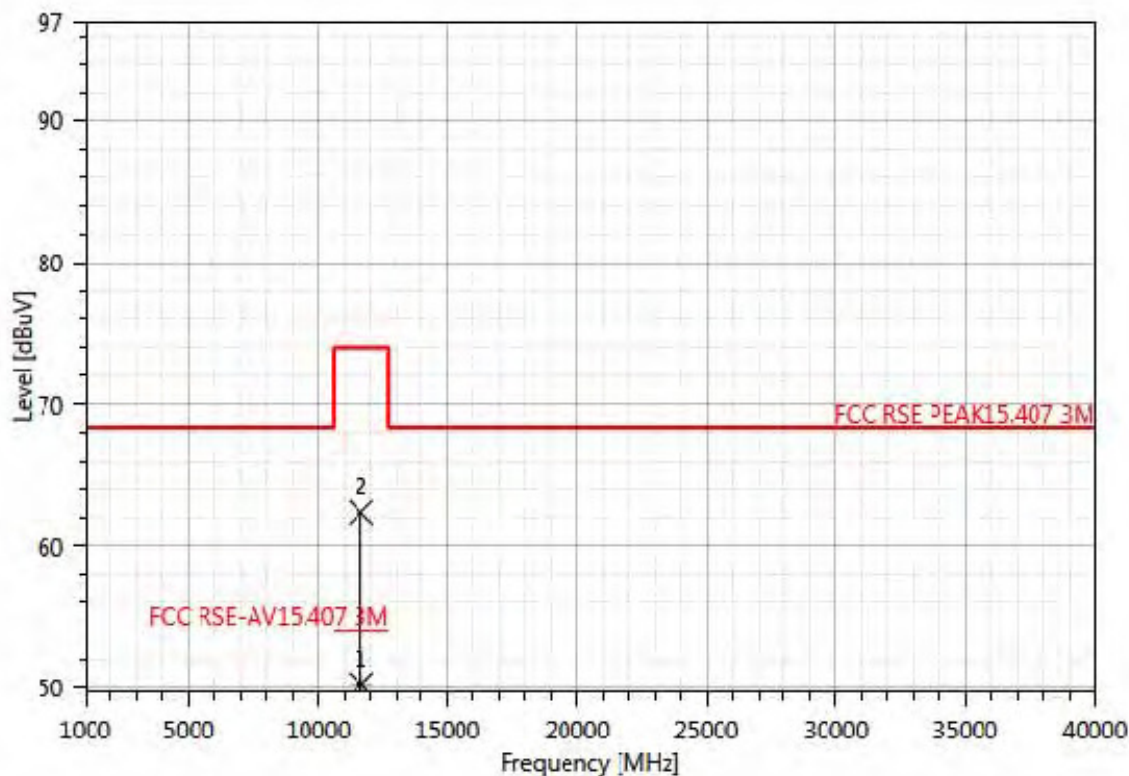
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Operation Mode :	802.11n20B4	Test Date :	10/06/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	
11650.00	H	Average	50.23	29.80	20.43	54.00	-3.77
11650.00	H	Peak	62.40	41.97	20.43	74.00	-11.60

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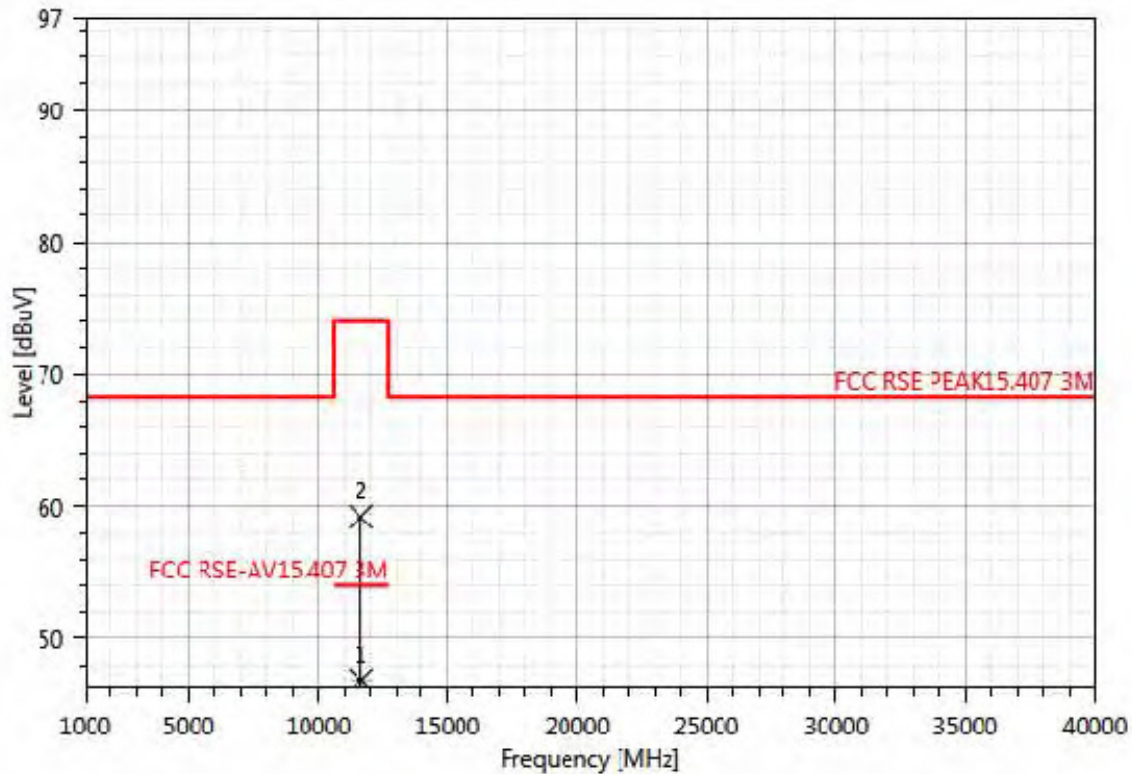
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Operation Mode :	802.11n20B4	Test Date :	10/06/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11650.00	H	Average	46.84	26.41	20.43	54.00	-7.16
11650.00	H	Peak	59.24	38.81	20.43	74.00	-14.76

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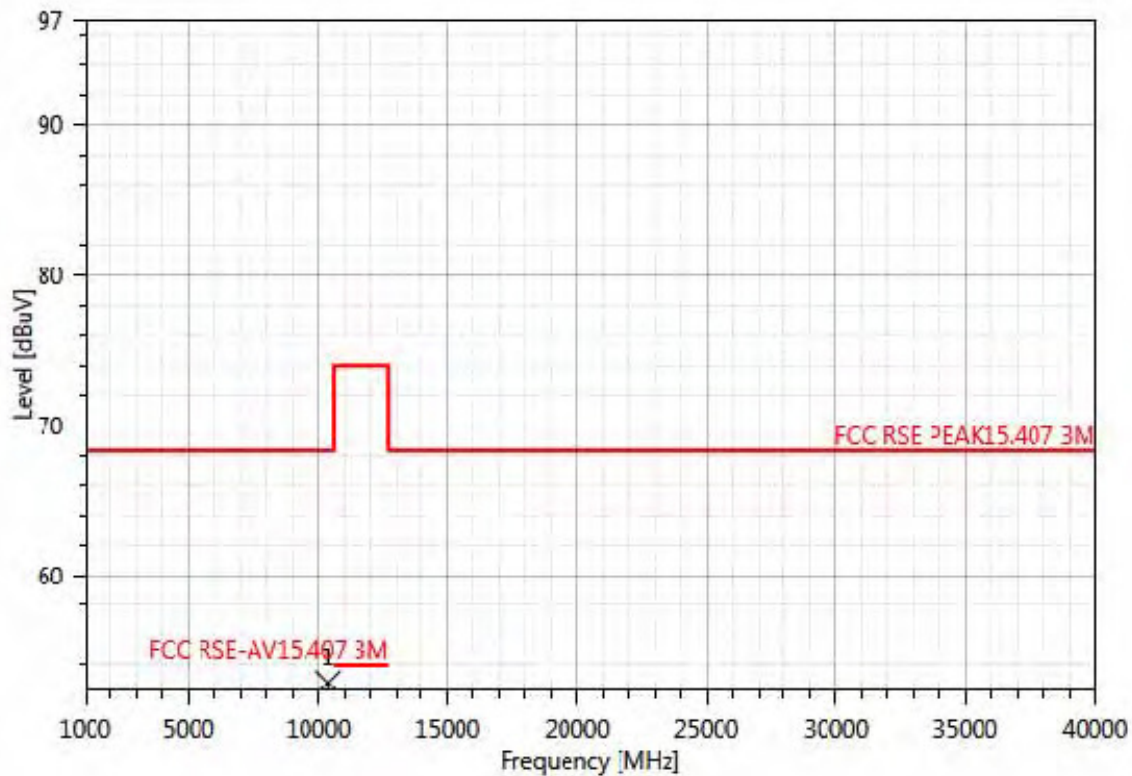
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	10/06/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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
10380.00	H	Peak	52.83	34.71	18.12	68.30	-15.47

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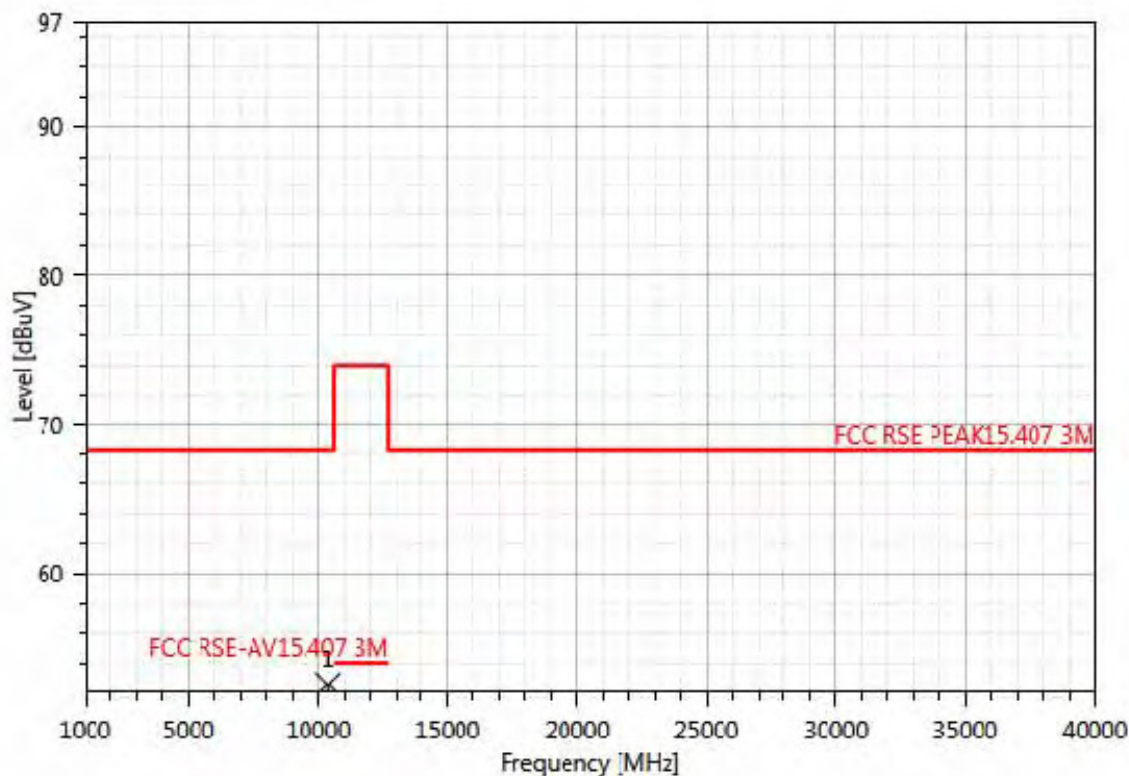
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Operation Mode :	802.11n40B1	Test Date :	10/06/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10380.00	H	Peak	52.58	34.46	18.12	68.30	-15.72

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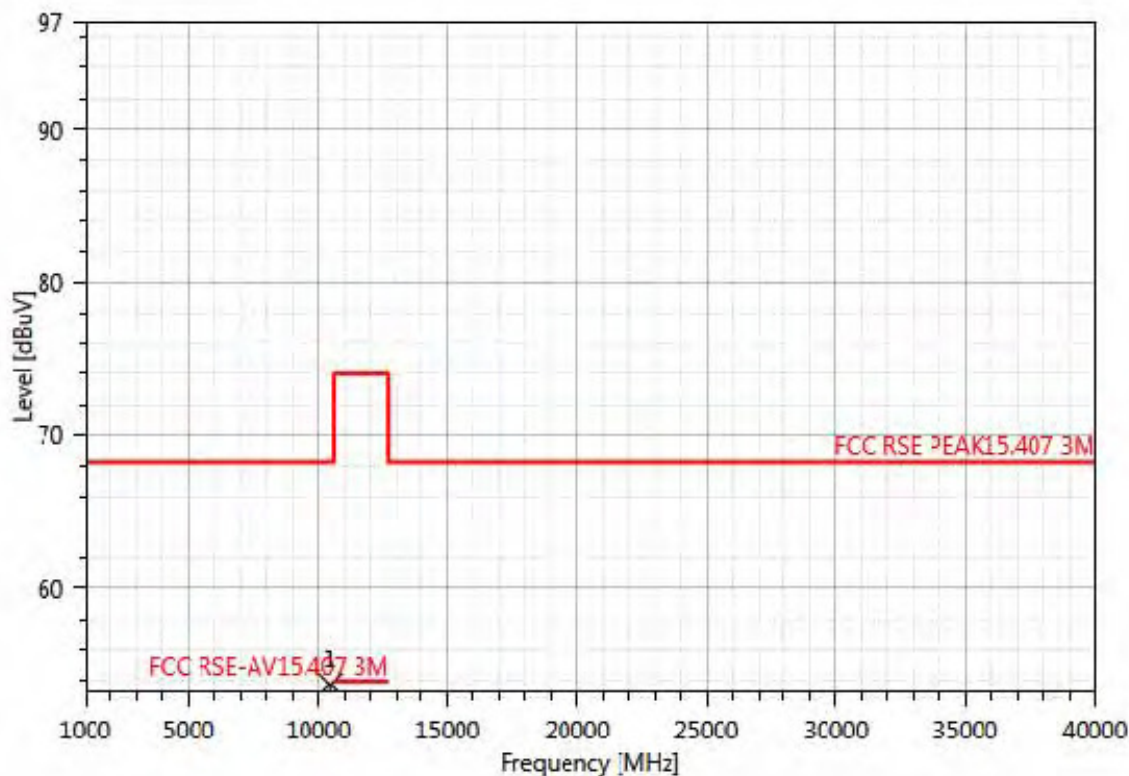
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Operation Mode :	802.11n40B1	Test Date :	10/06/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10460.00	H	Peak	53.76	35.22	18.54	68.30	-14.54

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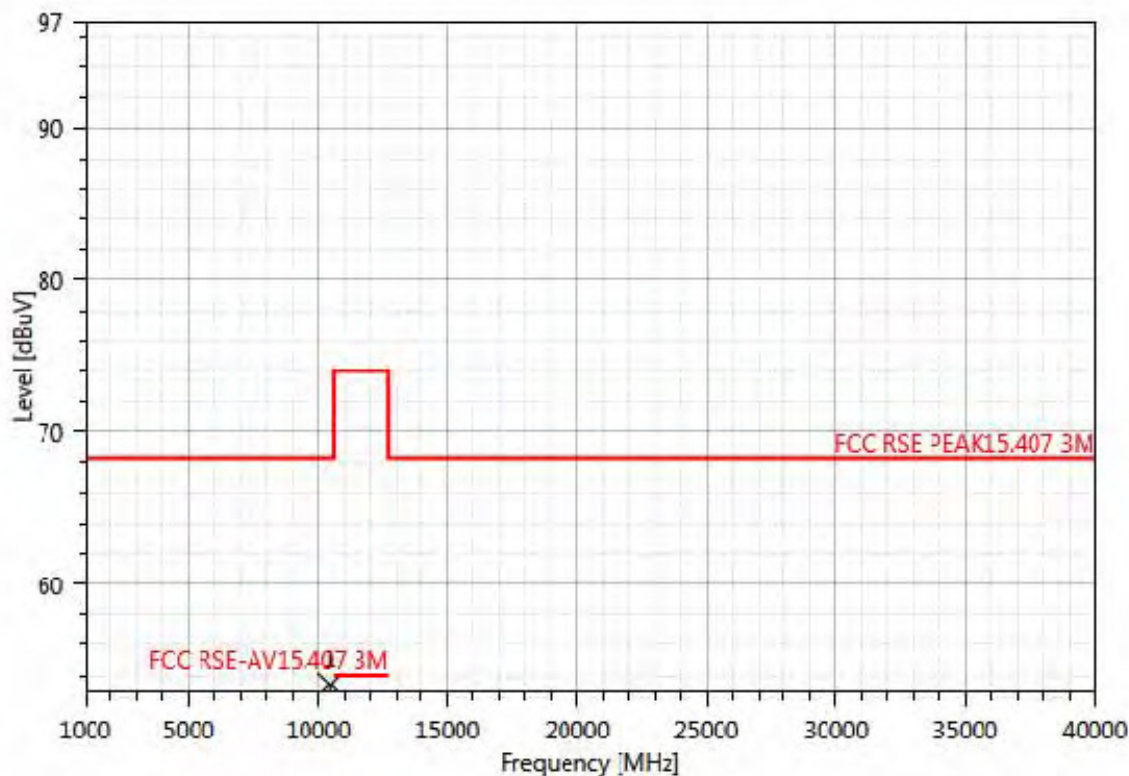
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Operation Mode : 802.11n40B1
 Fundamental Frequency : 5230 MHz
 Operation Band : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 10/06/2016
 Temp. / Humi. : 23 deg_C / 62 RH
 Test Engineer : Edward
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10460.00	H	QP/AV/PK	53.38	34.84	18.54	68.30	-14.92

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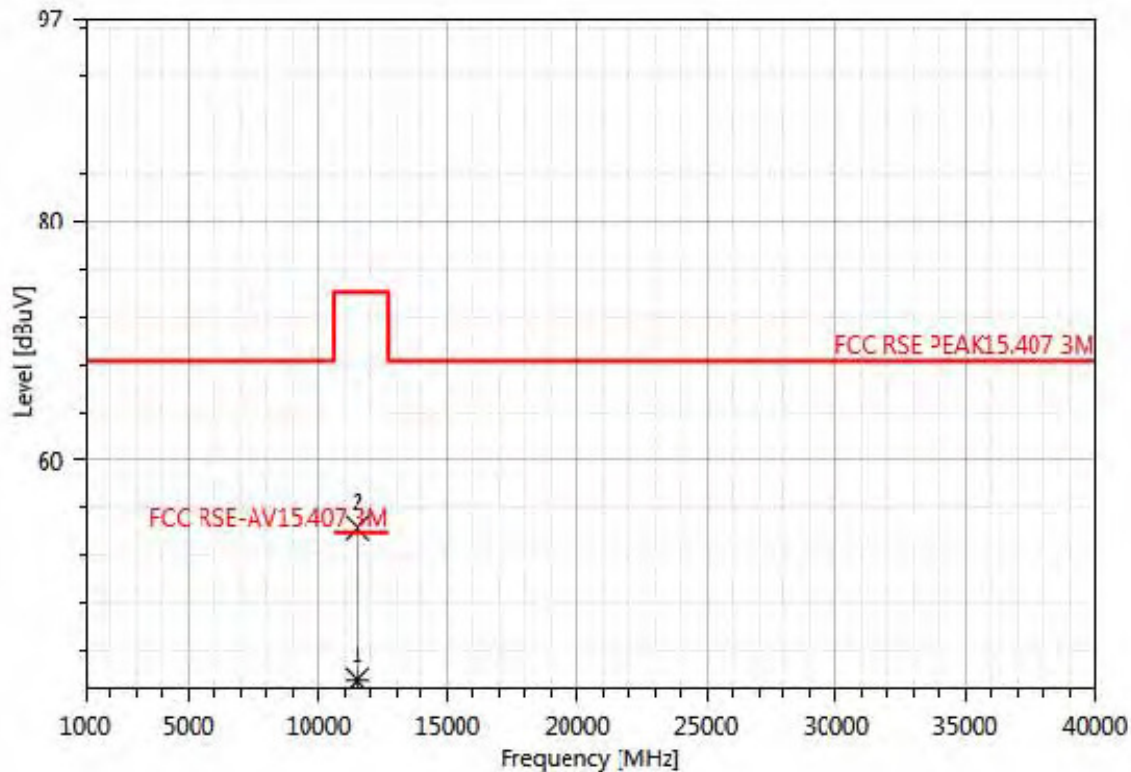
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	10/06/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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
11510.00	H	Average	41.61	21.22	20.39	54.00	-12.39
11510.00	H	Peak	54.36	33.98	20.39	74.00	-19.64

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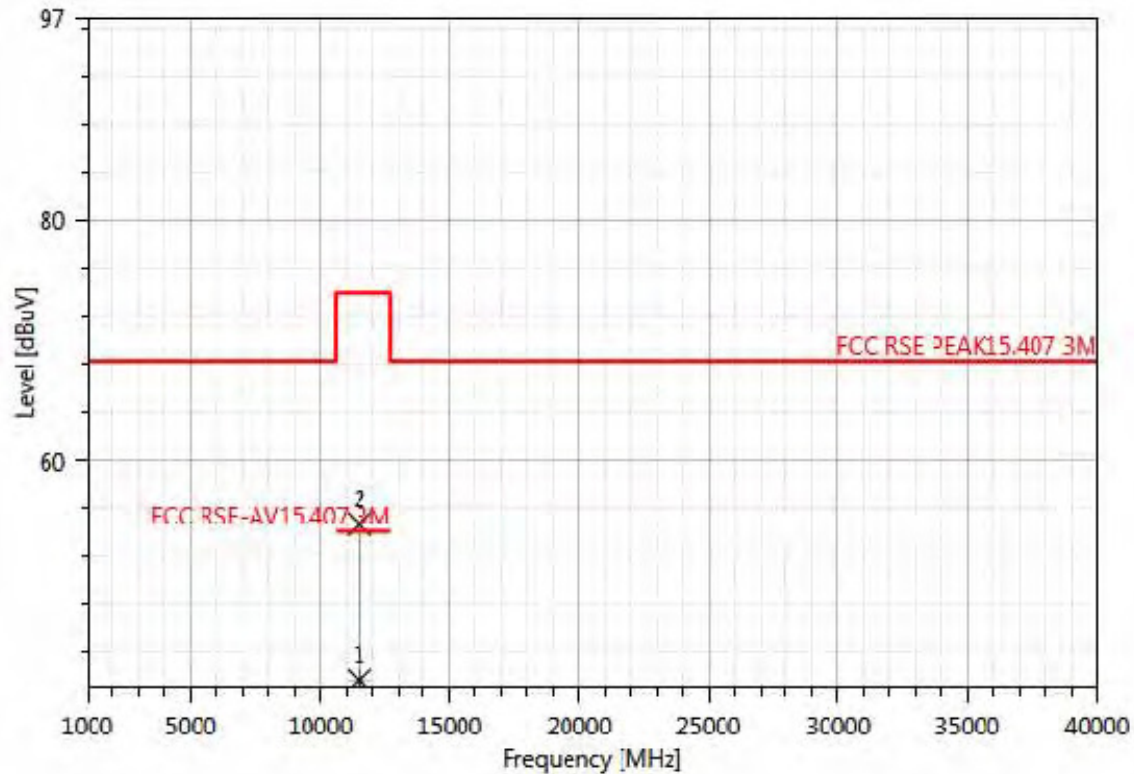
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Operation Mode :	802.11n40B4	Test Date :	10/06/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11510.00	H	Average	41.55	21.16	20.39	54.00	-12.45
11510.00	H	Peak	54.63	34.24	20.39	74.00	-19.37

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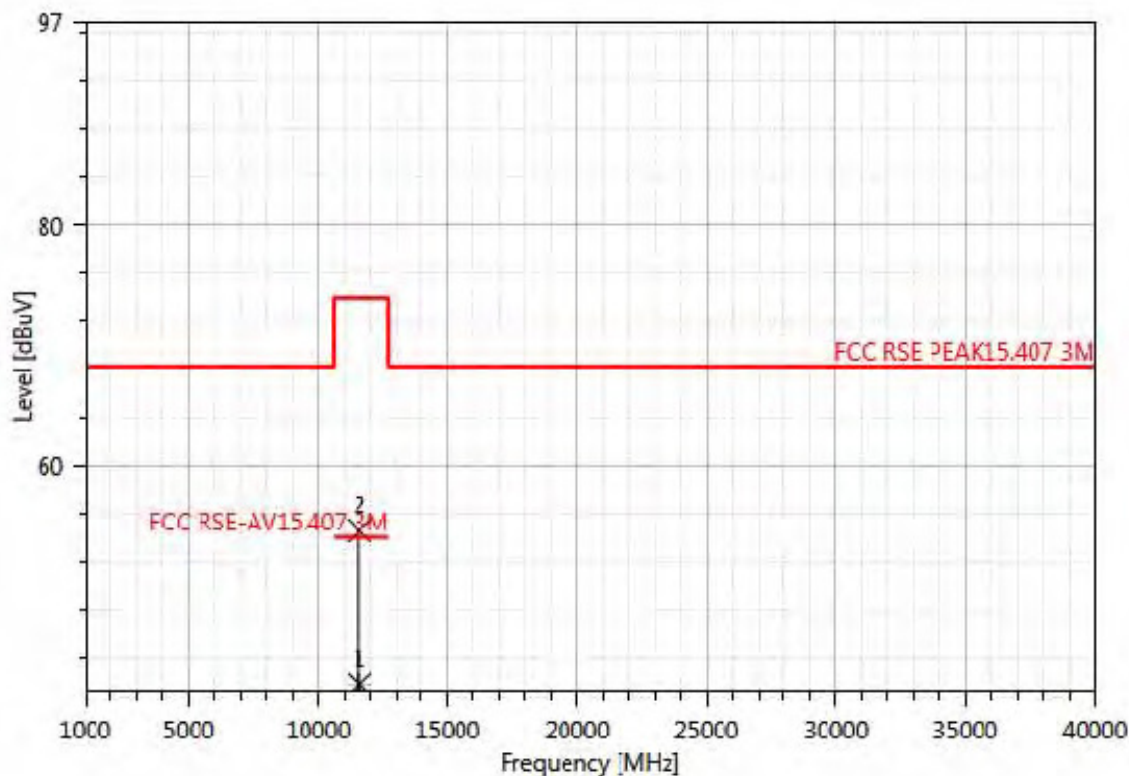
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Operation Mode :	802.11n40B4	Test Date :	10/06/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11590.00	H	Average	41.75	21.32	20.43	54.00	-12.25
11590.00	H	Peak	54.58	34.15	20.43	74.00	-19.42

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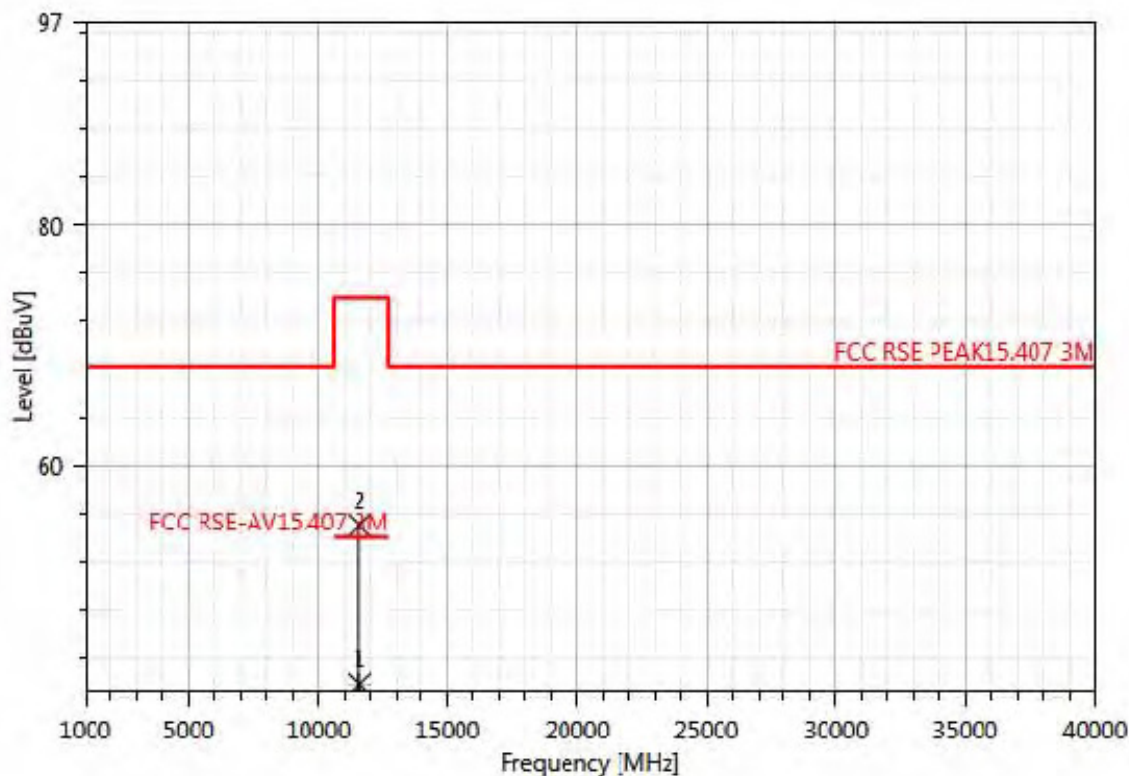
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Operation Mode :	802.11n40B4	Test Date :	10/06/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11590.00	H	Average	41.73	21.30	20.43	54.00	-12.27
11590.00	H	Peak	54.99	34.56	20.43	74.00	-19.01

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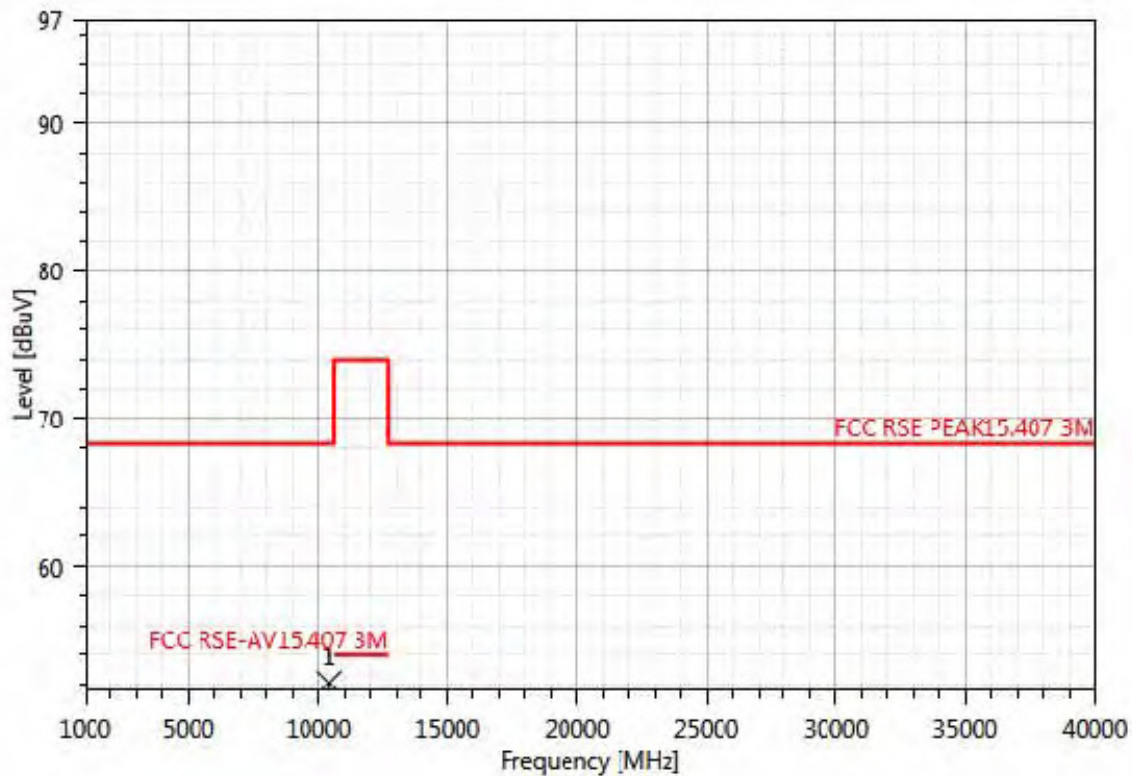
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	10/06/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
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
10420.00	H	Peak	52.13	33.41	18.71	68.30	-16.17

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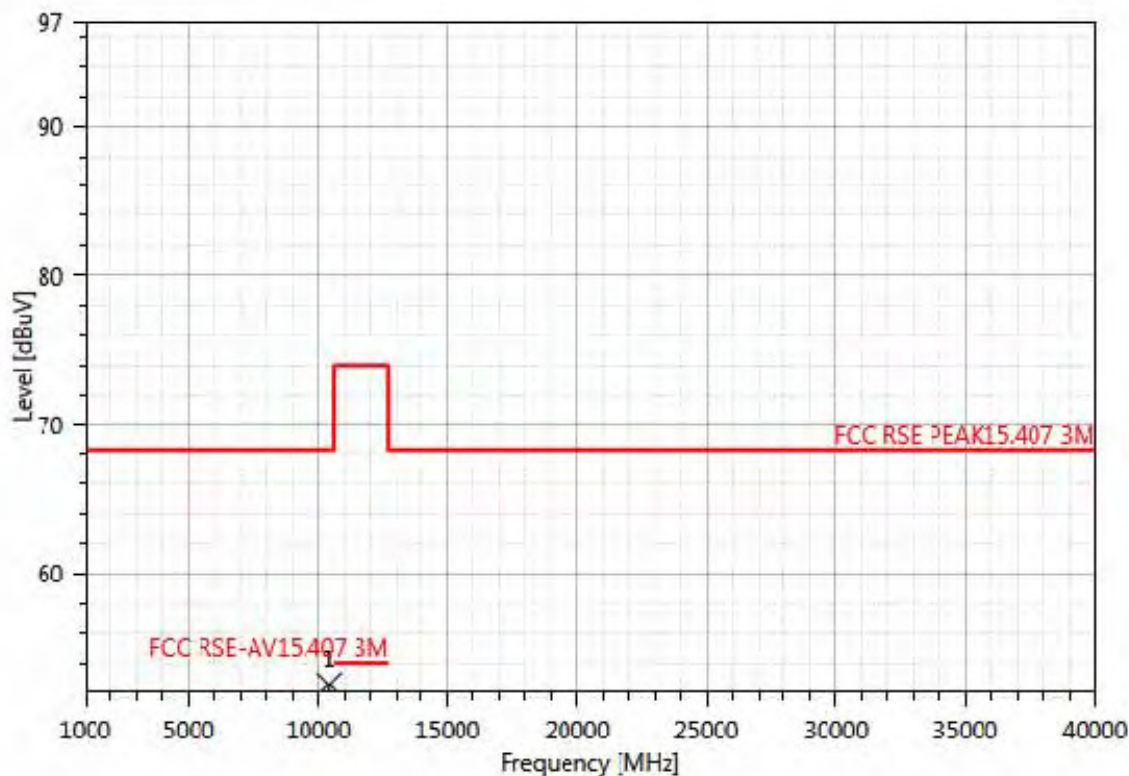
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Operation Mode :	802.11ac80B1	Test Date :	10/06/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10420.00	H	Peak	52.58	33.87	18.71	68.30	-15.72

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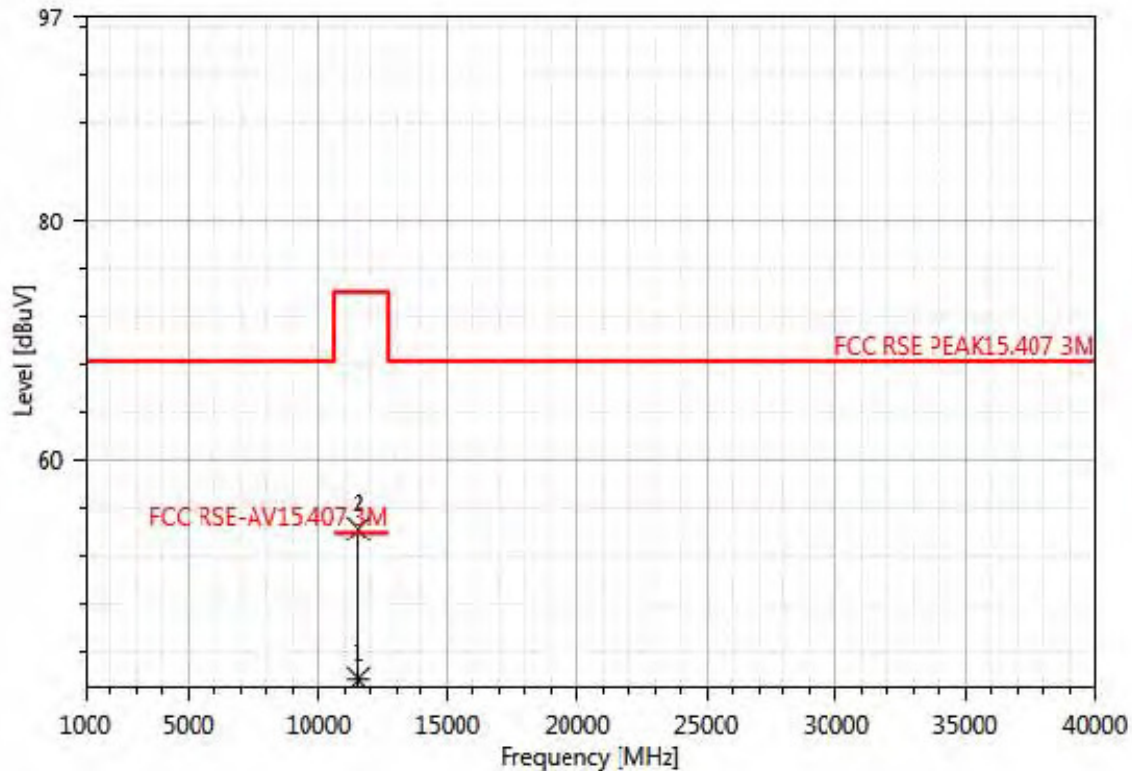
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	10/06/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11550.00	H	Average	41.76	21.24	20.52	54.00	-12.24
11550.00	H	Peak	54.26	33.74	20.52	74.00	-19.74

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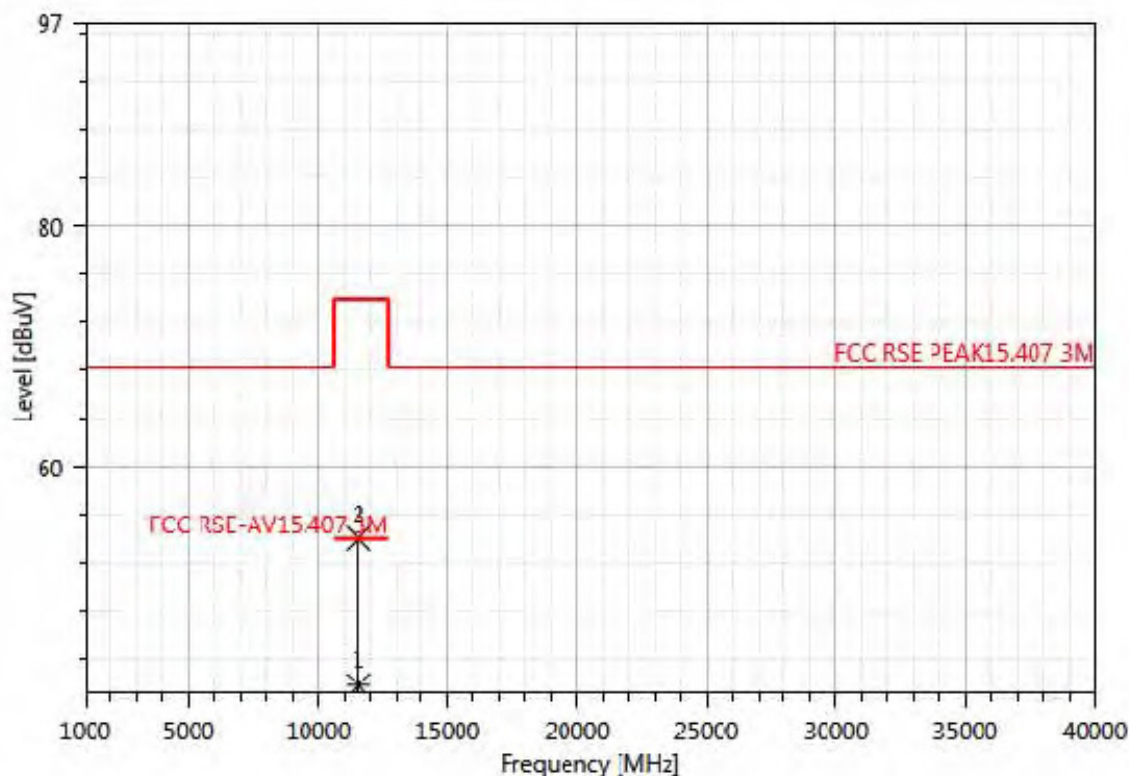
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Operation Mode : 802.11ac80B4 Test Date : 10/06/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11550.00	H	Average	41.80	21.28	20.52	54.00	-12.20
11550.00	H	Peak	54.01	33.50	20.52	74.00	-19.99

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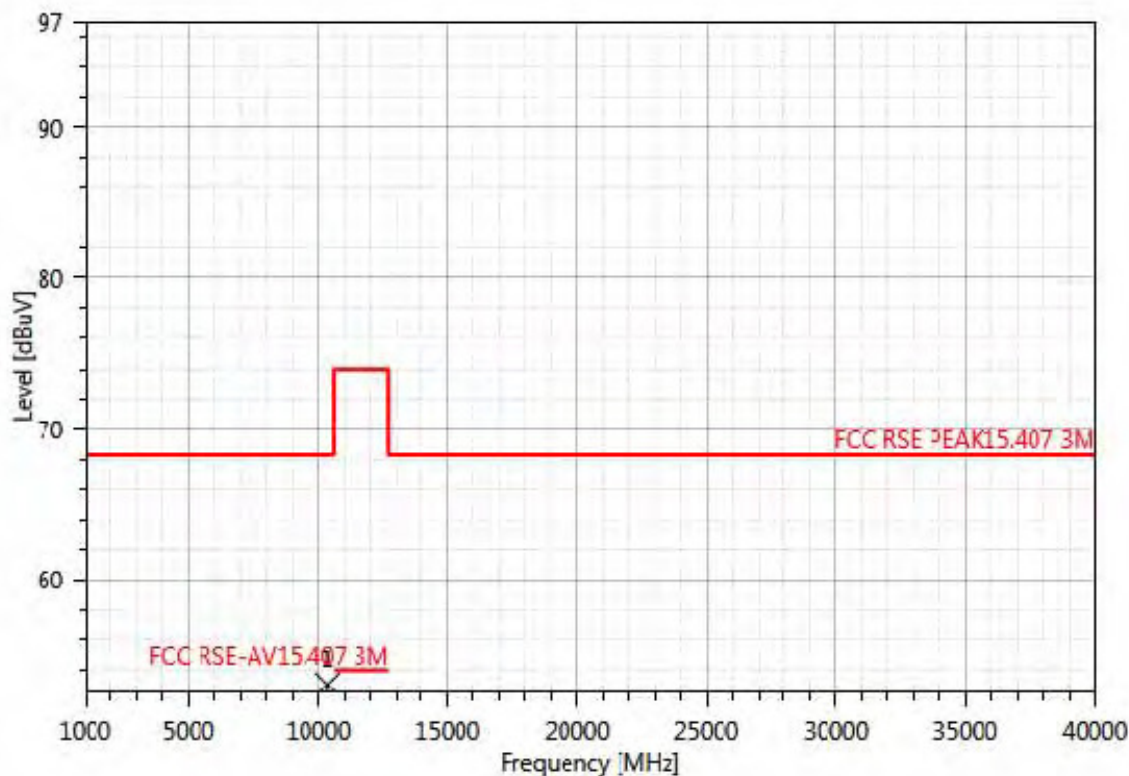
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Beam Forming Mode:

Operation Mode :	802.11n20B1	Test Date :	11/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 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	dBμV/m	dBμV/m		dBuV/m	
10360.00	H	Peak	53.05	34.75	18.29	68.30	-15.25

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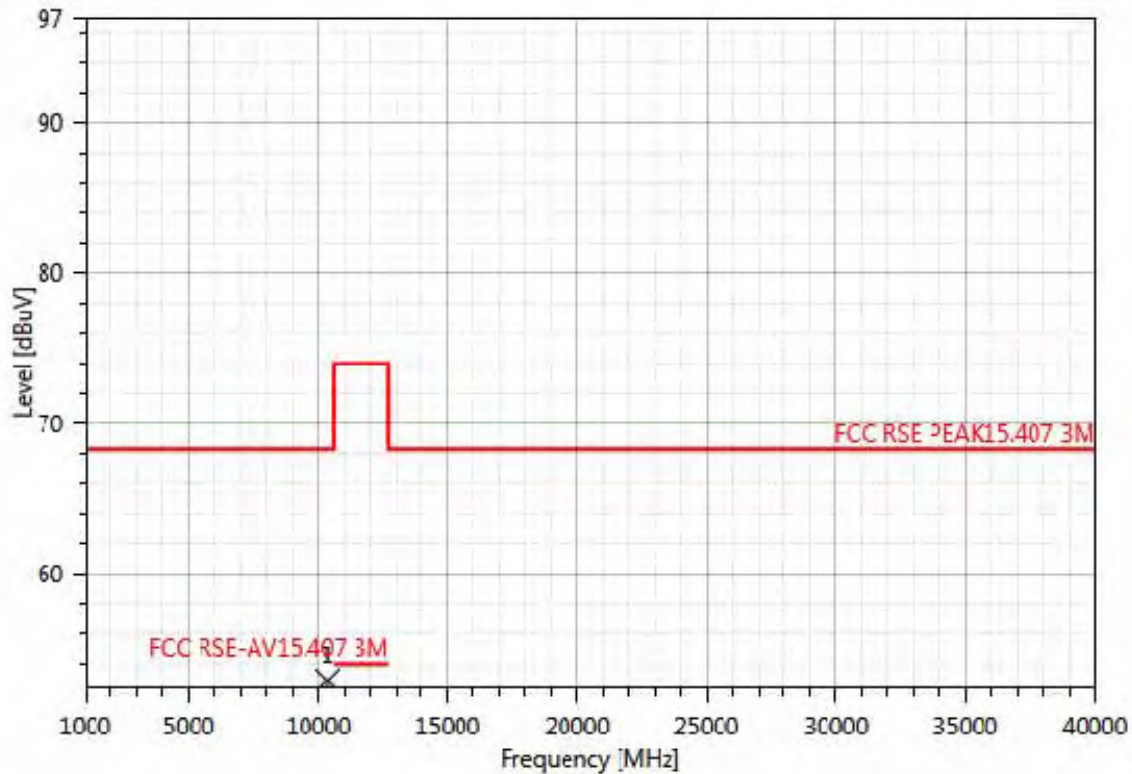
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Operation Mode :	802.11n20B1	Test Date :	11/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10360.00	H	Peak	52.90	34.61	18.29	68.30	-15.40

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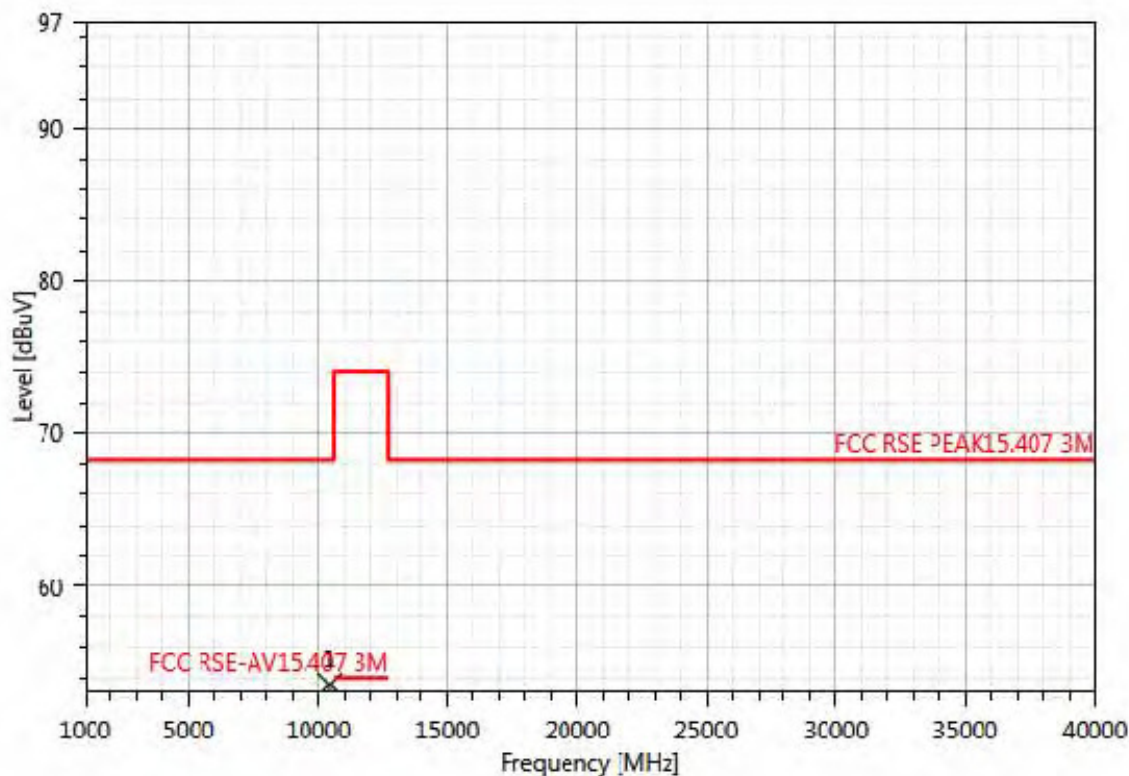
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Operation Mode :	802.11n20B1	Test Date :	11/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	53.55	34.86	18.68	68.30	-14.75

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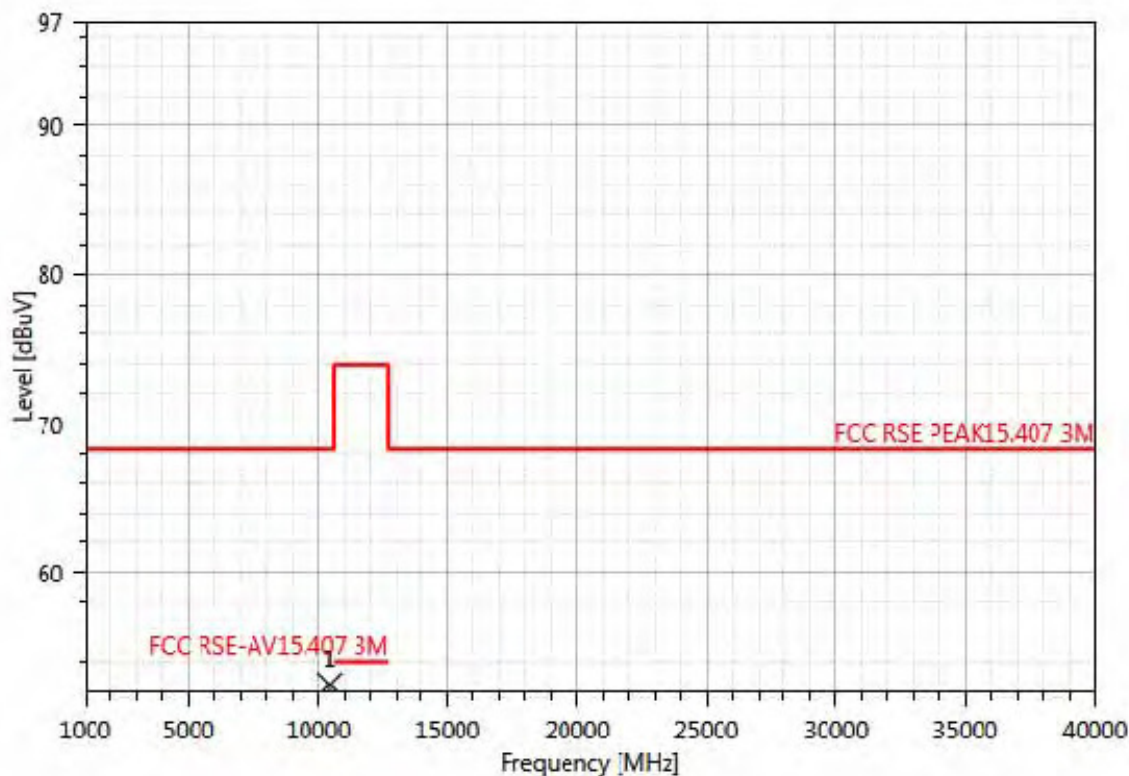
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Operation Mode :	802.11n20B1	Test Date :	11/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	52.48	33.80	18.68	68.30	-15.82

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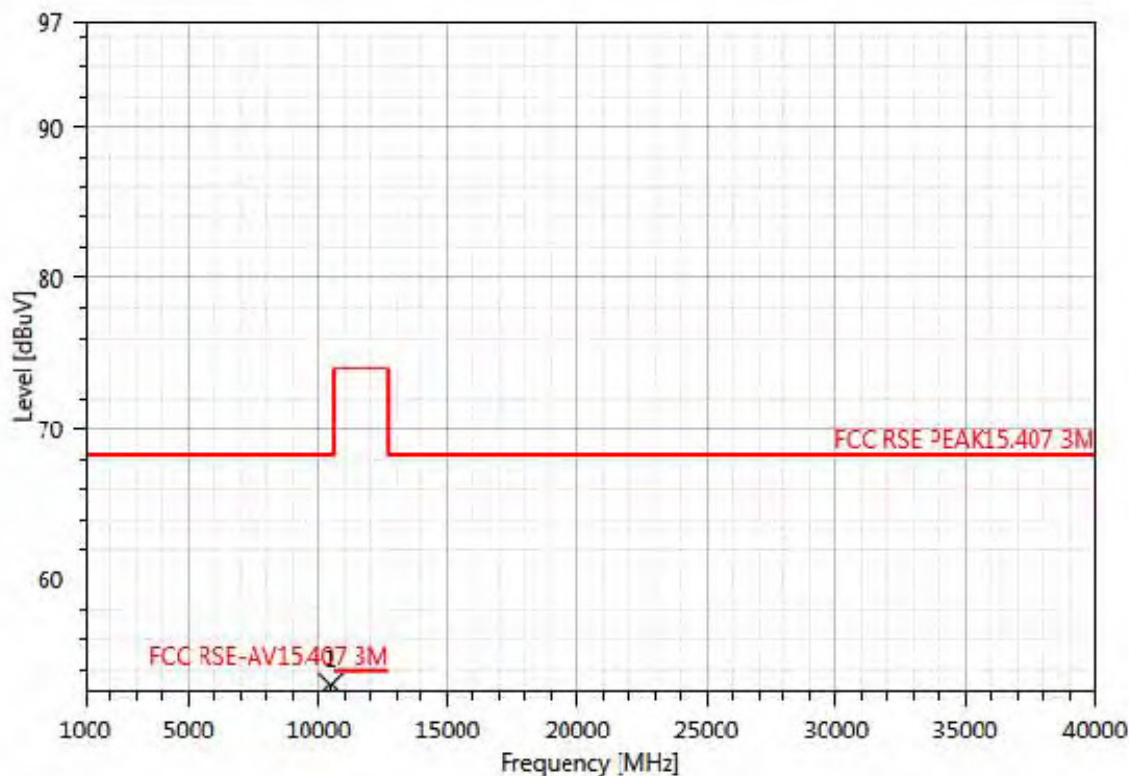
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Operation Mode :	802.11n20B1	Test Date :	11/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	53.06	34.76	18.29	68.30	-15.24

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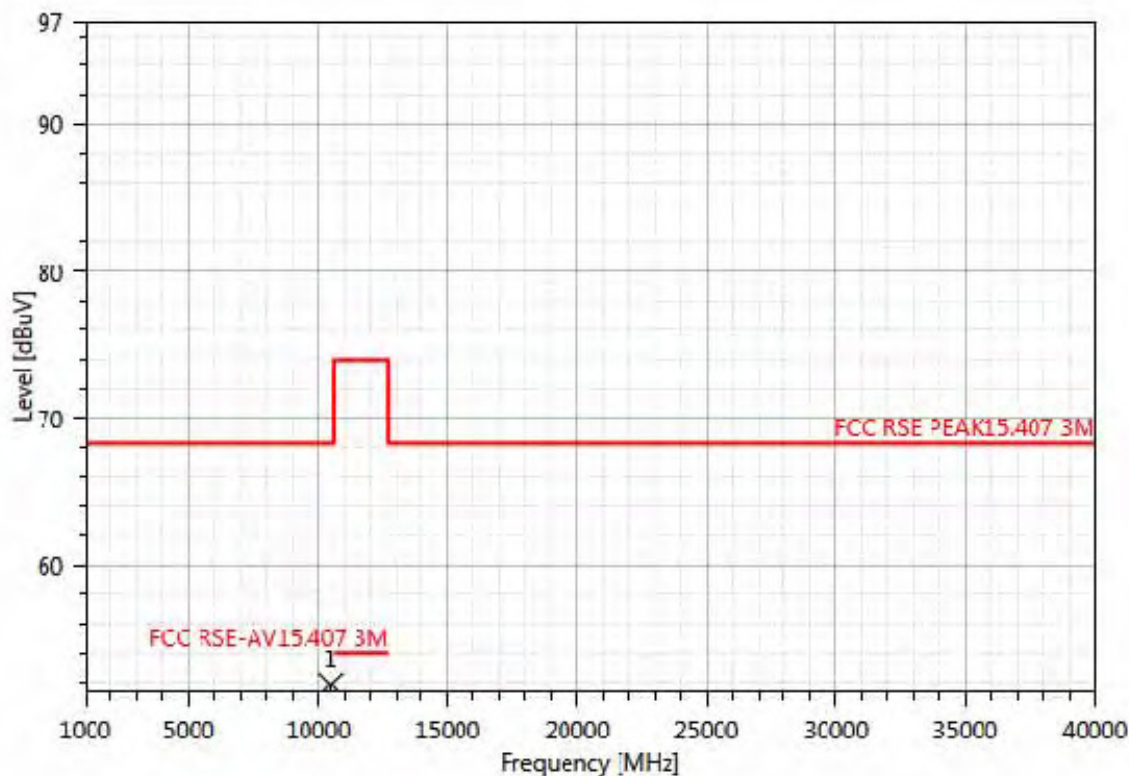
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Operation Mode :	802.11n20B1	Test Date :	11/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	51.90	33.60	18.29	68.30	-16.40

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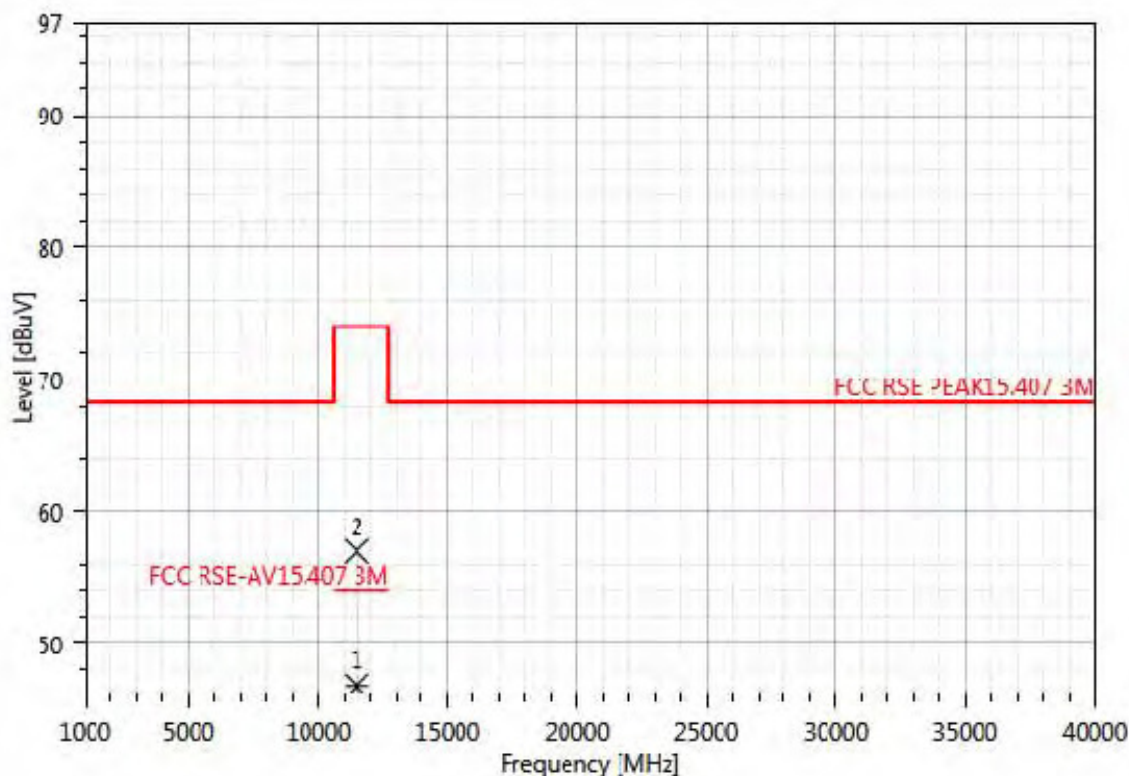
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	11/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 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
11490.00	H	Average	46.80	26.38	20.42	54.00	-7.20
11490.00	H	Peak	56.97	36.55	20.42	74.00	-17.03

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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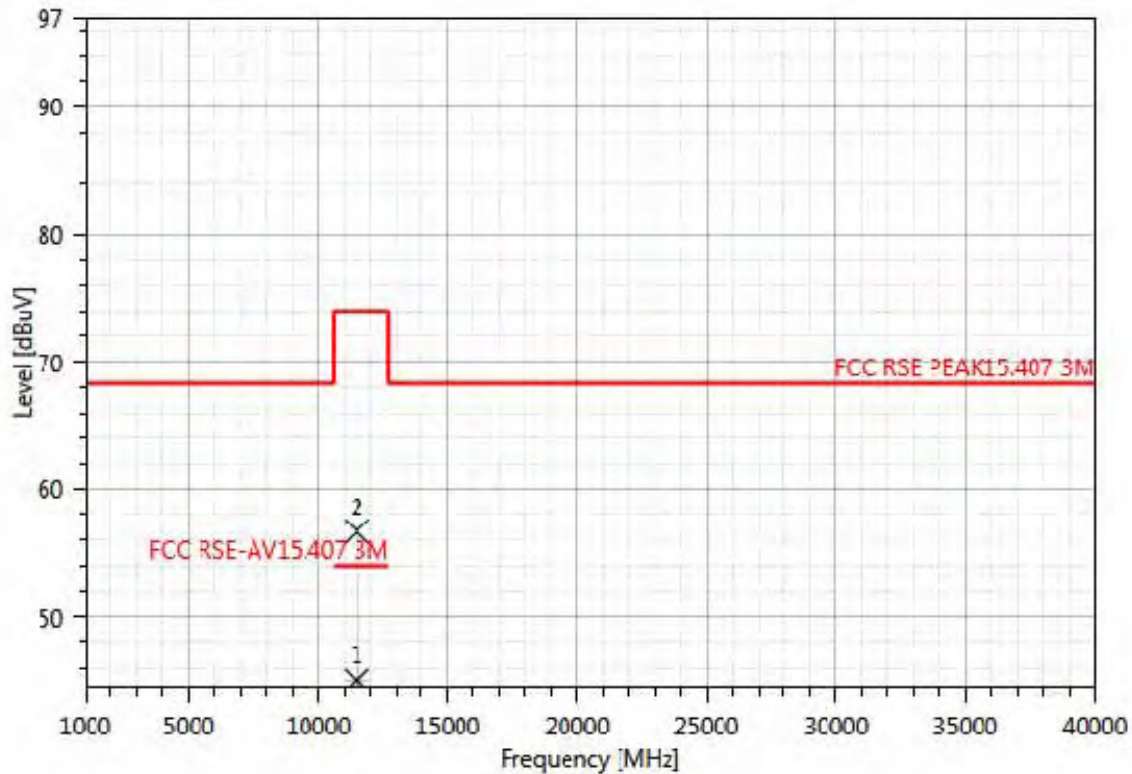
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Operation Mode :	802.11n20B4	Test Date :	11/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11490.00	H	Average	44.98	24.56	20.42	54.00	-9.02
11490.00	H	Peak	56.67	36.25	20.42	74.00	-17.33

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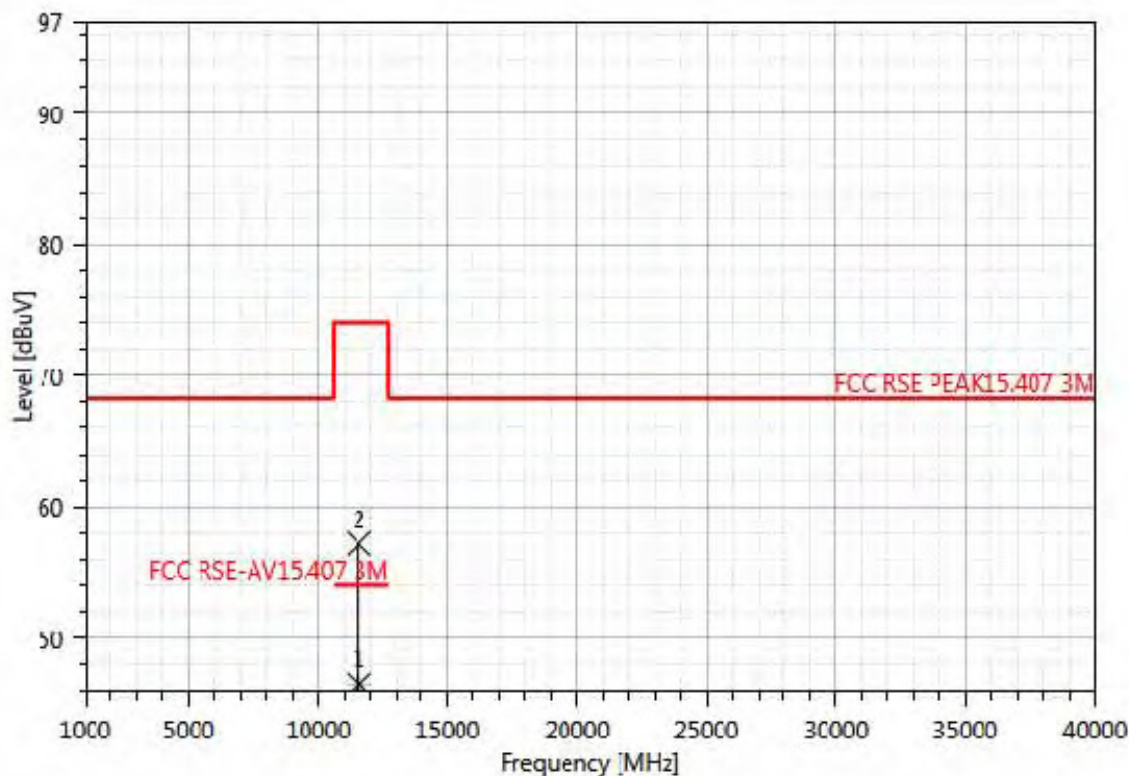
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Operation Mode :	802.11n20B4	Test Date :	11/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11570.00	H	Average	46.49	25.90	20.59	54.00	-7.51
11570.00	H	Peak	57.20	36.62	20.59	74.00	-16.80

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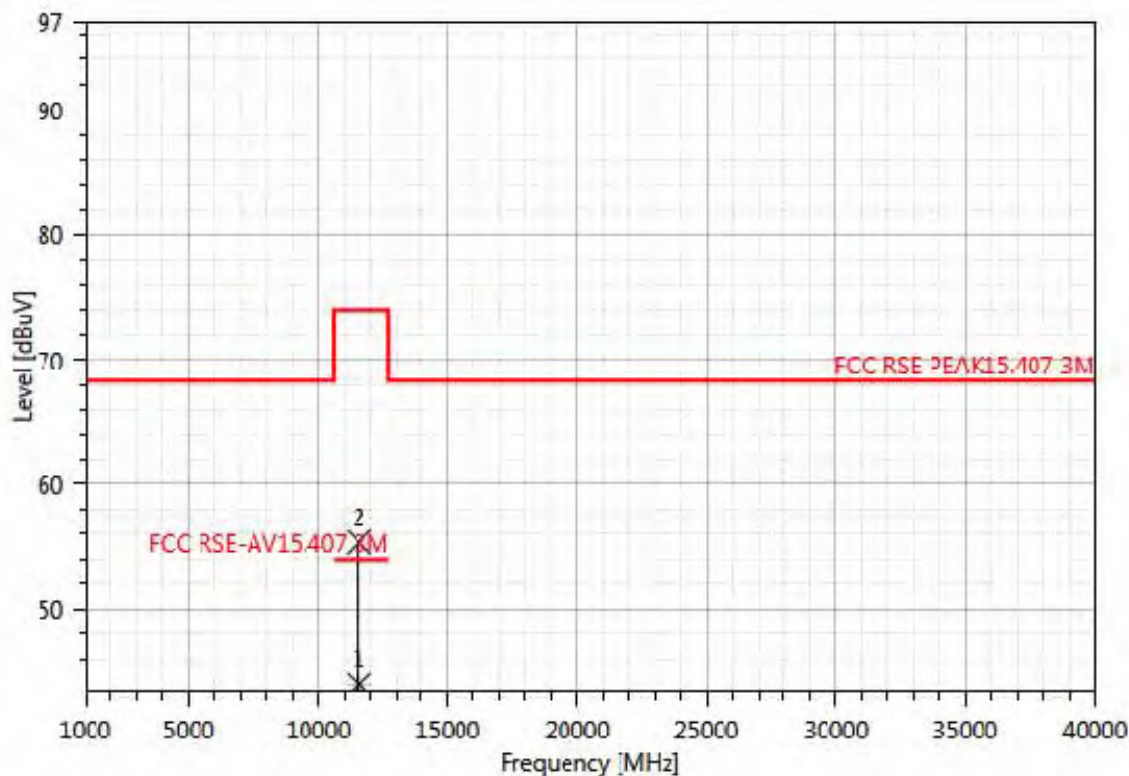
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Operation Mode :	802.11n20B4	Test Date :	11/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11570.00	H	Average	44.03	23.44	20.59	54.00	-9.97
11570.00	H	Peak	55.38	34.80	20.59	74.00	-18.62

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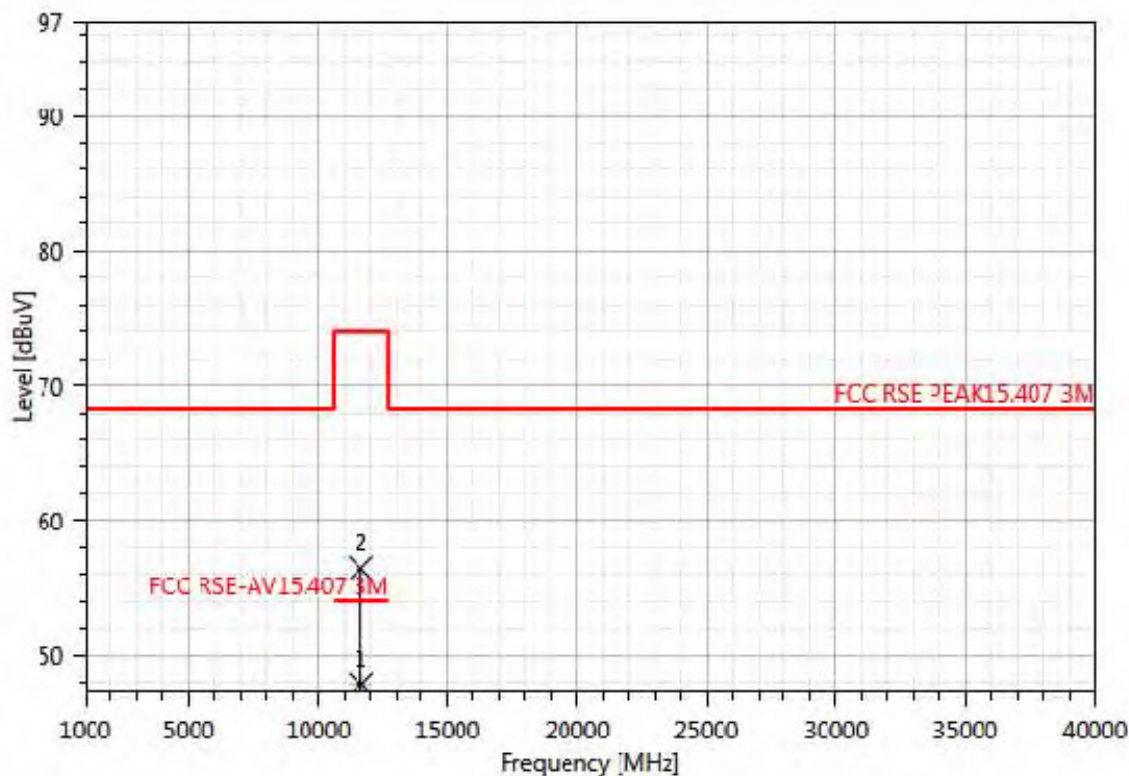
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Operation Mode :	802.11n20B4	Test Date :	11/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	
11650.00	H	Average	47.82	27.39	20.43	54.00	-6.18
11650.00	H	Peak	56.46	36.02	20.43	74.00	-17.54

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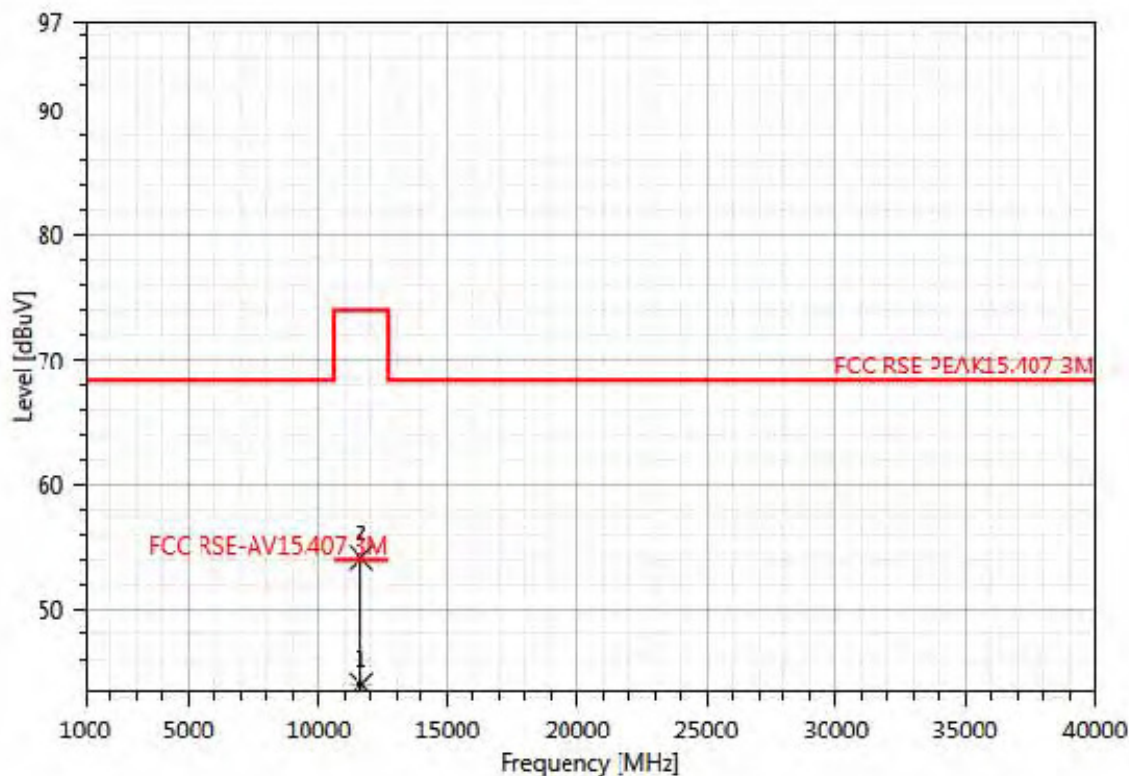
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Operation Mode :	802.11n20B4	Test Date :	11/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11650.00	H	Average	44.04	23.61	20.43	54.00	-9.96
11650.00	H	Peak	54.17	33.73	20.43	74.00	-19.83

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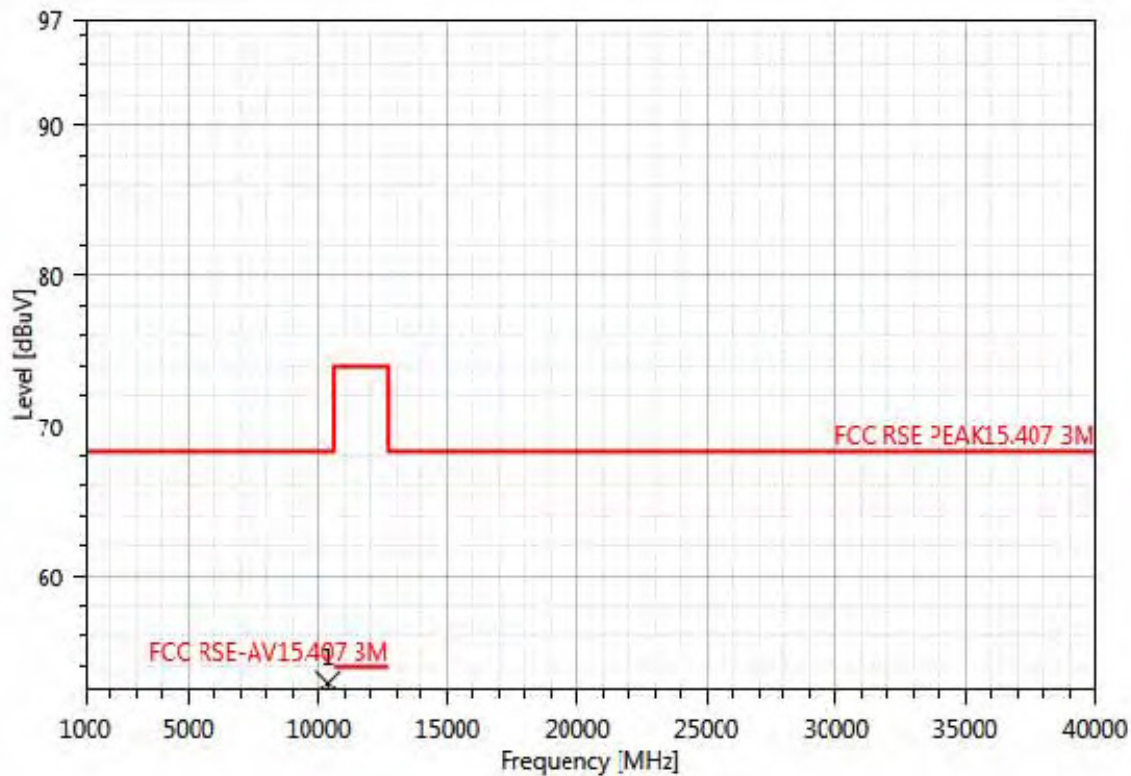
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	11/04/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 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
10380.00	H	QP/AV/PK	52.93	34.81	18.12	68.30	-15.37

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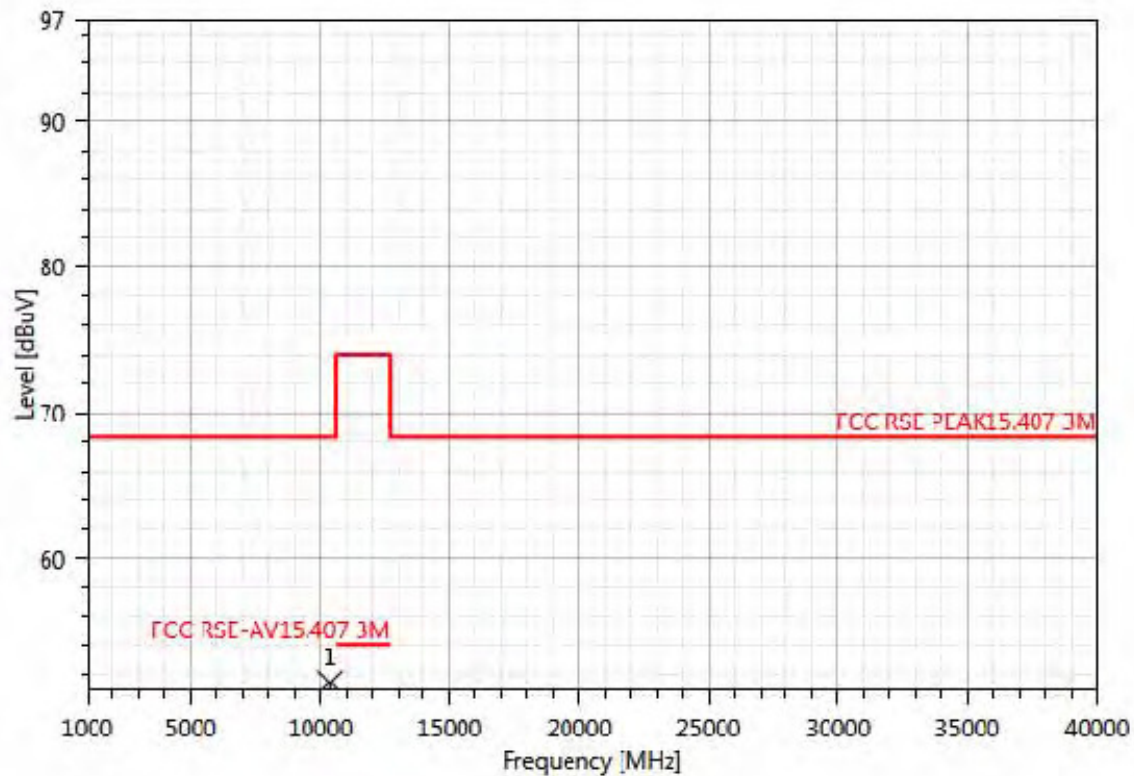
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Operation Mode :	802.11n40B1	Test Date :	11/04/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10380.00	H	Peak	51.46	33.33	18.12	68.30	-16.84

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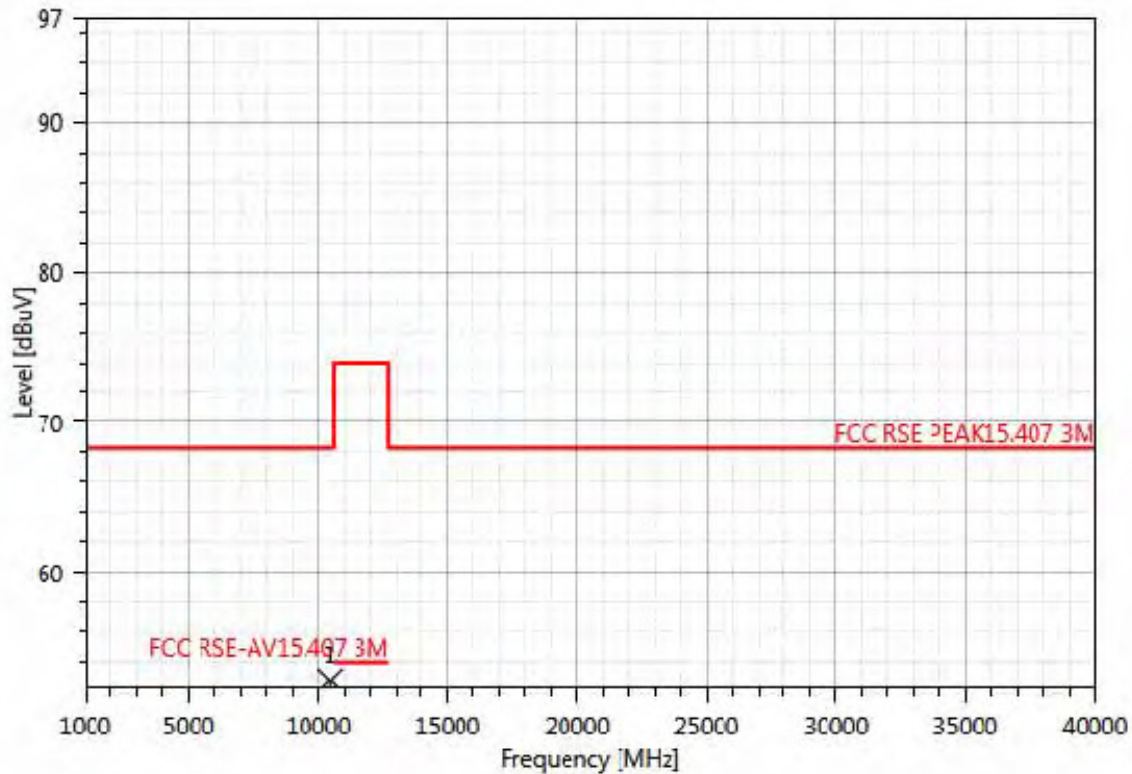
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Operation Mode :	802.11n40B1	Test Date :	11/04/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10460.00	H	Peak	52.78	34.24	18.54	68.30	-15.52

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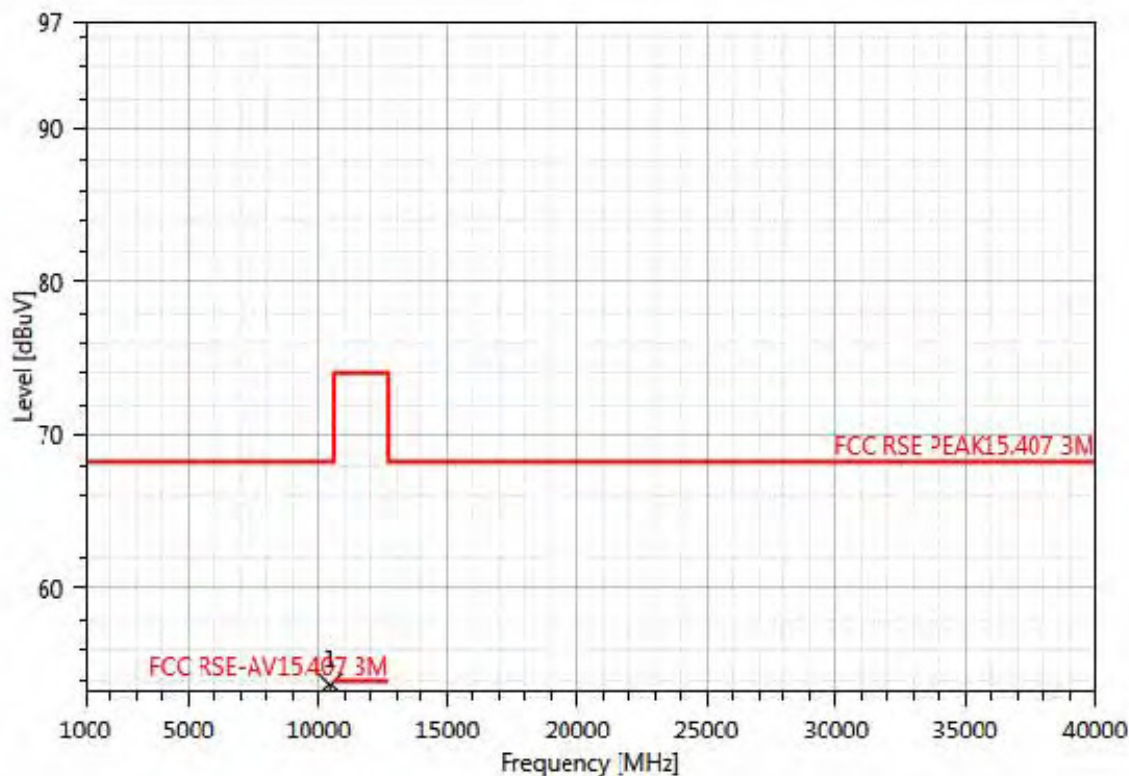
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Operation Mode :	802.11n40B1	Test Date :	11/04/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10460.00	H	Peak	53.73	35.19	18.54	68.30	-14.57

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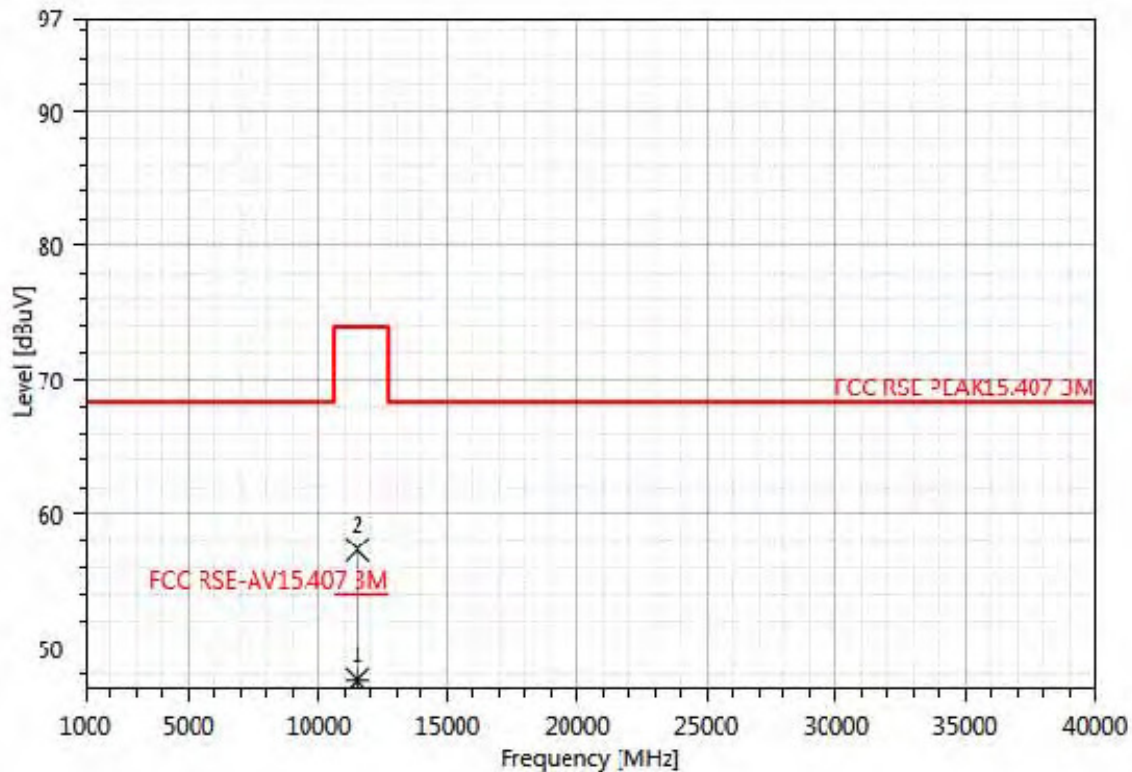
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	11/04/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
11510.00	H	Average	47.59	27.20	20.39	54.00	-6.41
11510.00	H	Peak	57.31	36.93	20.39	74.00	-16.69

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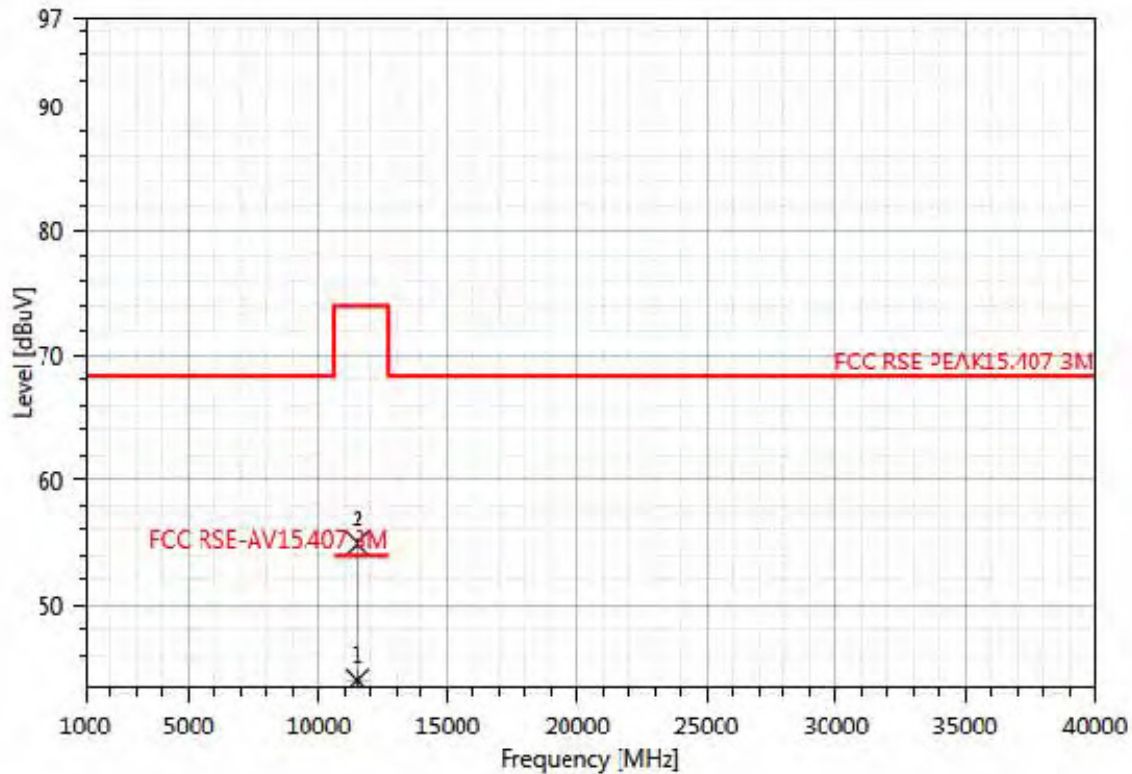
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Operation Mode :	802.11n40B4	Test Date :	11/04/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11510.00	H	Average	44.01	23.62	20.39	54.00	-9.99
11510.00	H	Peak	54.95	34.56	20.39	74.00	-19.05

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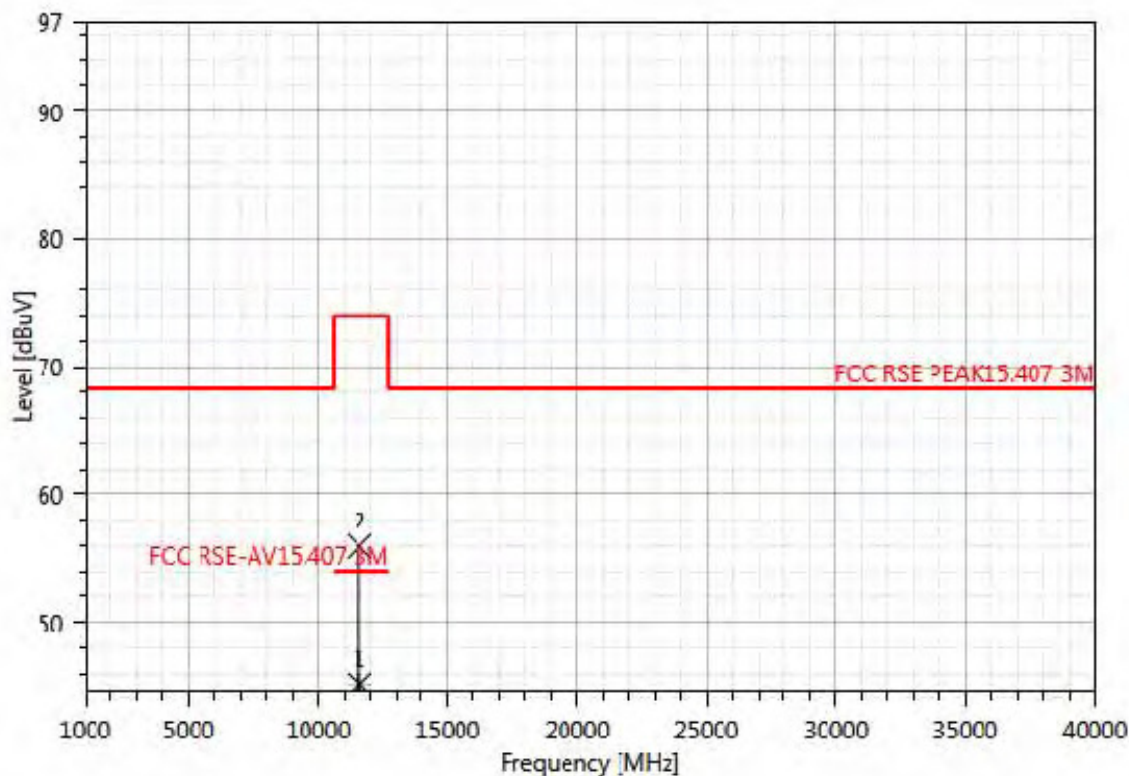
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Operation Mode :	802.11n40B4	Test Date :	11/04/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	
11590.00	H	Average	45.12	24.69	20.43	54.00	-8.88
11590.00	H	Peak	55.92	35.49	20.43	74.00	-18.08

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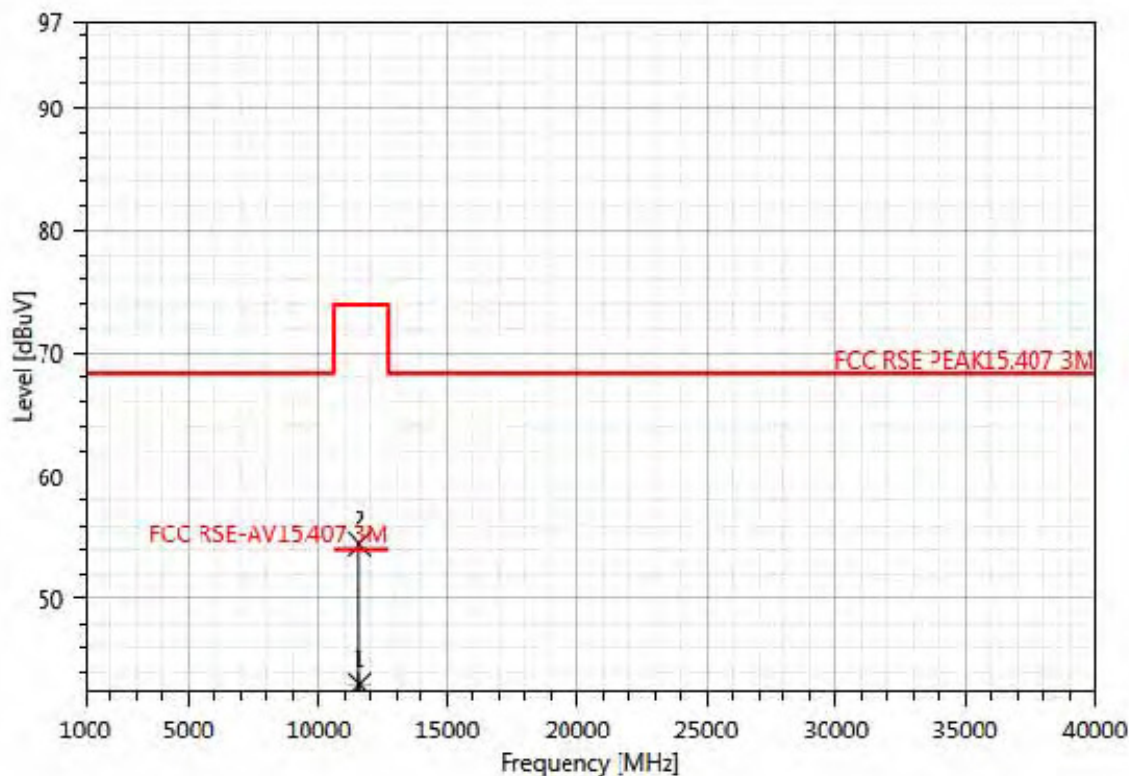
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Operation Mode :	802.11n40B4	Test Date :	11/04/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11590.00	H	Average	43.02	22.59	20.43	54.00	-10.98
11590.00	H	Peak	54.43	34.00	20.43	74.00	-19.57

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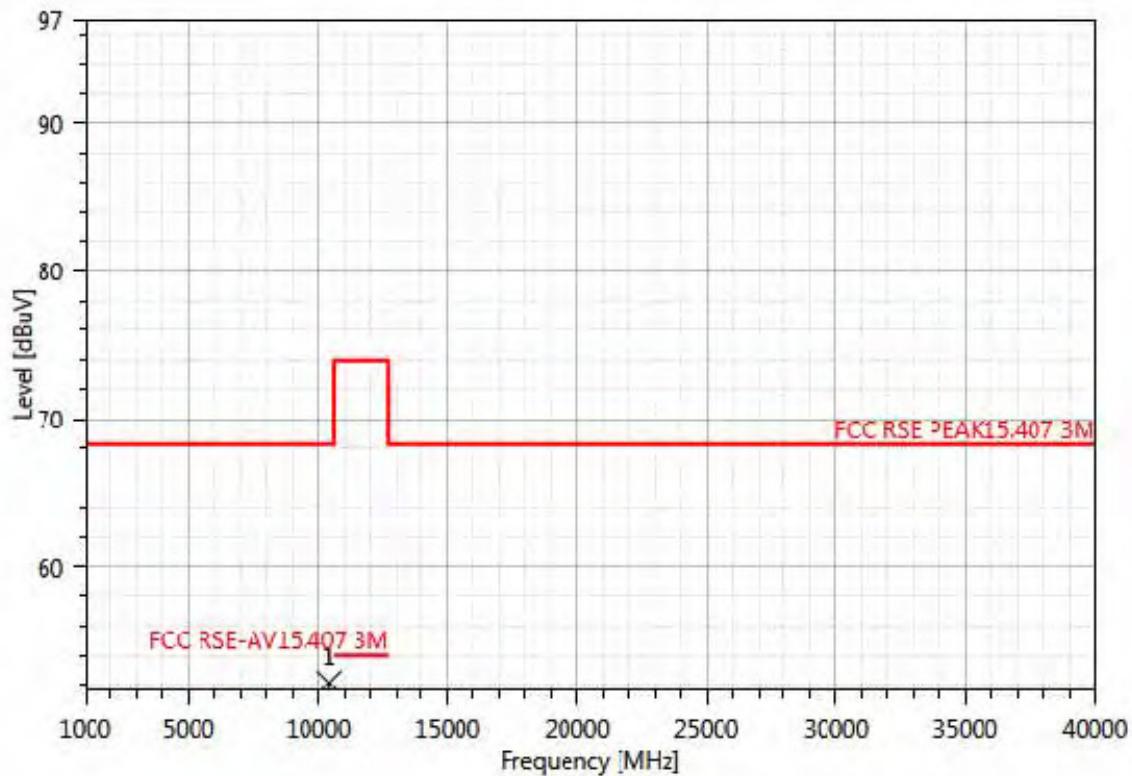
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	11/04/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 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
10420.00	H	QP/AV/PK	52.18	33.46	18.71	68.30	-16.12

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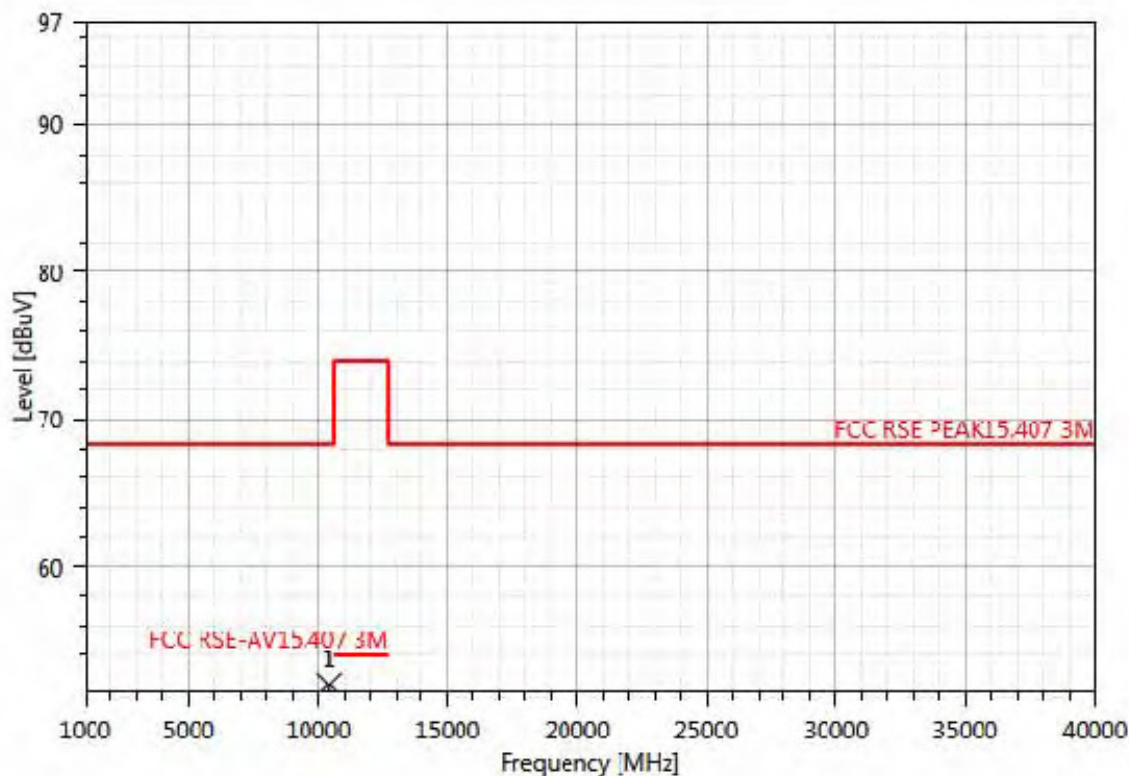
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Operation Mode :	802.11ac80B1	Test Date :	11/04/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10420.00	H	Peak	52.00	33.29	18.71	68.30	-16.30

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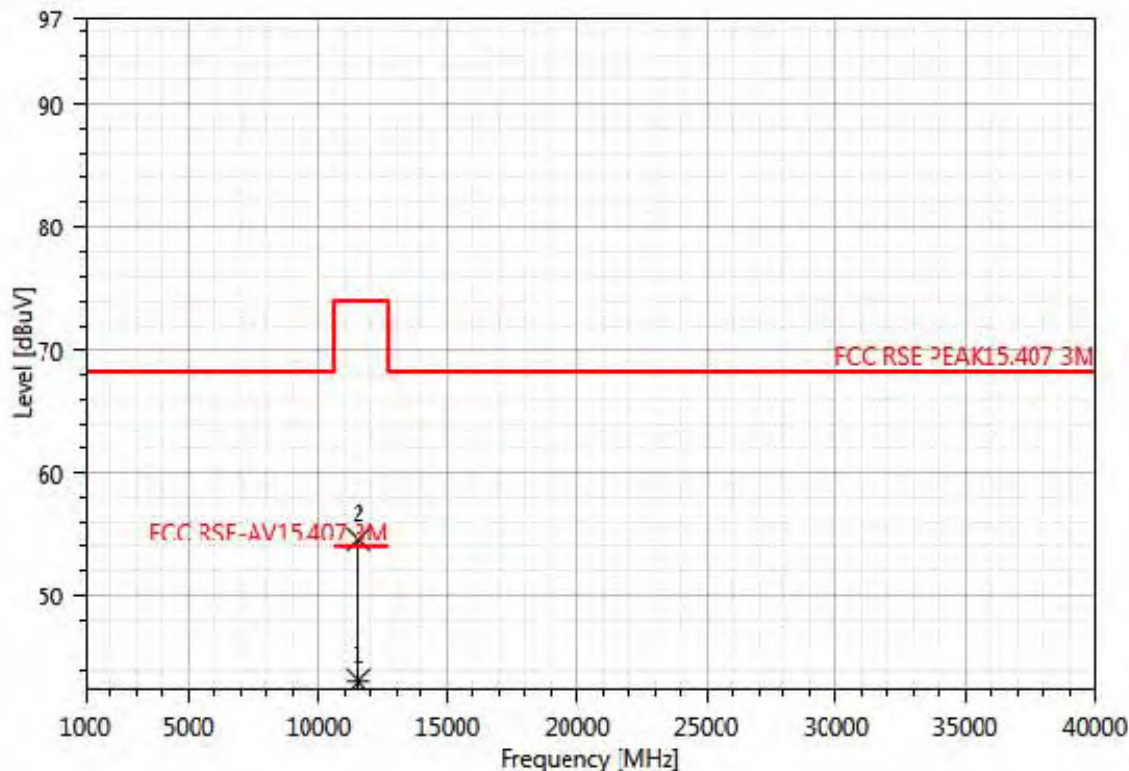
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	11/04/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
11550.00	H	Average	43.08	22.56	20.52	54.00	-10.92
11550.00	H	Peak	54.60	34.09	20.52	74.00	-19.40

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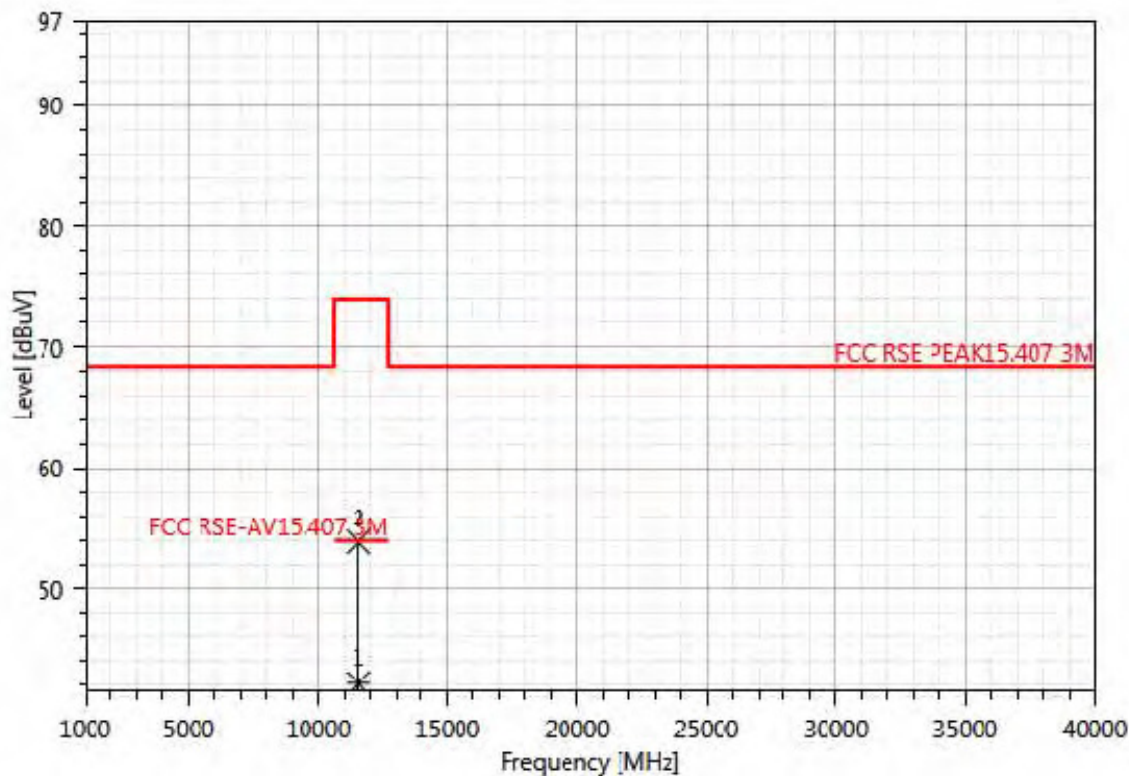
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Operation Mode : 802.11ac80B4 Test Date : 11/04/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11550.00	H	Average	42.21	21.69	20.52	54.00	-11.79
11550.00	H	Peak	53.91	33.39	20.52	74.00	-20.09

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Band edge falling to restricted band

802.11a mode

Operation Mode : 802.11aB1 Test Date : 10/13/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5150.00	E	Average	45.31	39.43	5.88	54.00	-8.69
5150.00	E	Peak	58.27	52.39	5.88	74.00	-15.73

Operation Mode : 802.11aB1 Test Date : 10/13/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5150.00	E	Average	44.35	38.47	5.88	54.00	-9.65
5150.00	E	Peak	57.14	51.26	5.88	74.00	-16.86

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Operation Mode : 802.11aB4 Test Date : 10/13/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	59.24	52.75	6.48	68.23	-8.99
5700.00	E	Peak	70.90	64.23	6.68	105.23	-34.33
5720.00	E	Peak	80.70	74.10	6.60	110.83	-30.13
5725.00	E	Peak	85.86	79.27	6.59	122.23	-36.37

Operation Mode : 802.11aB4 Test Date : 10/13/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	57.29	50.81	6.48	68.23	-10.94
5700.00	E	Peak	63.16	56.48	6.68	105.23	-42.07
5720.00	E	Peak	75.11	68.51	6.60	110.83	-35.72
5725.00	E	Peak	79.28	72.69	6.59	122.23	-42.95

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Operation Mode : 802.11aB4 Test Date : 10/13/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	81.20	73.91	7.28	122.23	-41.03
5855.00	E	Peak	78.55	71.24	7.32	110.83	-32.28
5875.00	E	Peak	64.52	57.15	7.37	105.23	-40.71
5925.00	E	Peak	58.77	51.38	7.39	68.23	-9.46

Operation Mode : 802.11aB4 Test Date : 10/13/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	75.07	67.79	7.28	122.23	-47.16
5855.00	E	Peak	73.29	65.97	7.32	110.83	-37.54
5875.00	E	Peak	61.61	54.24	7.37	105.23	-43.62
5925.00	E	Peak	57.88	50.49	7.39	68.23	-10.35

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CDD Mode:

802.11nHT20 mode

Operation Mode :	802.11n20B1	Test Date :	10/13/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5150.00	E	Average	46.60	40.72	5.88	54.00	-7.40
5150.00	E	Peak	61.14	55.26	5.88	74.00	-12.86

Operation Mode :	802.11n20B1	Test Date :	10/13/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5150.00	E	Average	44.36	38.48	5.88	54.00	-9.64
5150.00	E	Peak	56.78	50.90	5.88	74.00	-17.22

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Operation Mode : 802.11n20B4 Test Date : 10/13/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	58.29	51.81	6.48	68.23	-9.94
5700.00	E	Peak	68.30	61.63	6.68	105.23	-36.93
5720.00	E	Peak	79.12	72.52	6.60	110.83	-31.71
5725.00	E	Peak	83.61	77.02	6.59	122.23	-38.62

Operation Mode : 802.11n20B4 Test Date : 10/13/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	56.70	50.22	6.48	68.23	-11.53
5700.00	E	Peak	63.21	56.53	6.68	105.23	-42.02
5720.00	E	Peak	75.39	68.79	6.60	110.83	-35.44
5725.00	E	Peak	78.67	72.08	6.59	122.23	-43.56

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Operation Mode : 802.11n20B4 Test Date : 10/13/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	81.58	74.30	7.28	122.23	-40.65
5855.00	E	Peak	78.58	71.26	7.32	110.83	-32.25
5875.00	E	Peak	65.64	58.27	7.37	105.23	-39.59
5925.00	E	Peak	58.32	50.93	7.39	68.23	-9.91

Operation Mode : 802.11n20B4 Test Date : 10/13/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	75.29	68.01	7.28	122.23	-46.94
5855.00	E	Peak	74.45	67.13	7.32	110.83	-36.38
5875.00	E	Peak	64.32	56.95	7.37	105.23	-40.91
5925.00	E	Peak	58.07	50.68	7.39	68.23	-10.16

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802.11n40 HT mode

Operation Mode : 802.11n40B1 Test Date : 10/13/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	45.21	39.33	5.88	54.00	-8.79
5150.00	E	Peak	59.27	53.39	5.88	74.00	-14.73

Operation Mode : 802.11n40B1 Test Date : 10/13/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	44.78	38.90	5.88	54.00	-9.22
5150.00	E	Peak	57.85	51.97	5.88	74.00	-16.15

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Operation Mode : 802.11n40B4 Test Date : 10/13/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	61.89	55.41	6.48	68.23	-6.34
5700.00	E	Peak	75.05	68.37	6.68	105.23	-30.18
5720.00	E	Peak	84.24	77.64	6.60	110.83	-26.59
5725.00	E	Peak	86.19	79.60	6.59	122.23	-36.04

Operation Mode : 802.11n40B4 Test Date : 10/13/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	57.33	50.85	6.48	68.23	-10.90
5700.00	E	Peak	70.28	63.60	6.68	105.23	-34.95
5720.00	E	Peak	77.36	70.76	6.60	110.83	-33.47
5725.00	E	Peak	76.86	70.27	6.59	122.23	-45.37

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Operation Mode : 802.11n40B4 Test Date : 10/13/2016
Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	74.14	66.86	7.28	122.23	-48.09
5855.00	E	Peak	72.38	65.07	7.32	110.83	-38.45
5875.00	E	Peak	69.84	62.47	7.37	105.23	-35.39
5925.00	E	Peak	59.08	51.69	7.39	68.23	-9.15

Operation Mode : 802.11n40B4 Test Date : 10/13/2016
Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	70.08	62.80	7.28	122.23	-52.15
5855.00	E	Peak	68.56	61.24	7.32	110.83	-42.27
5875.00	E	Peak	63.19	55.82	7.37	105.23	-42.04
5925.00	E	Peak	58.30	50.91	7.39	68.23	-9.93

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802.11ac80 VHT mode

Operation Mode : 802.11ac80B1 Test Date : 10/13/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	47.44	41.56	5.88	54.00	-6.56
5150.00	E	Peak	59.96	54.08	5.88	74.00	-14.04

Operation Mode : 802.11ac80B1 Test Date : 10/13/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	43.90	38.02	5.88	54.00	-10.10
5150.00	E	Peak	56.89	51.01	5.88	74.00	-17.11

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Operation Mode : 802.11ac80B4 Test Date : 10/13/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	61.21	54.73	6.48	68.23	-7.02
5700.00	E	Peak	71.44	64.76	6.68	105.23	-33.79
5720.00	E	Peak	74.75	68.15	6.60	110.83	-36.08
5725.00	E	Peak	73.34	66.74	6.59	122.23	-48.89

Operation Mode : 802.11ac80B4 Test Date : 10/13/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	58.43	51.95	6.48	68.23	-9.80
5700.00	E	Peak	65.41	58.73	6.68	105.23	-39.82
5720.00	E	Peak	72.02	65.42	6.60	110.83	-38.81
5725.00	E	Peak	68.95	62.36	6.59	122.23	-53.28

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Operation Mode : 802.11ac80B4 Test Date : 10/13/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	69.09	61.81	7.28	122.23	-53.14
5855.00	E	Peak	68.70	61.38	7.32	110.83	-42.13
5875.00	E	Peak	63.11	55.74	7.37	105.23	-42.12
5925.00	E	Peak	59.24	51.85	7.39	68.23	-8.99

Operation Mode : 802.11ac80B4 Test Date : 10/13/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	64.77	57.49	7.28	122.23	-57.46
5855.00	E	Peak	63.93	56.61	7.32	110.83	-46.90
5875.00	E	Peak	59.89	52.52	7.37	105.23	-45.34
5925.00	E	Peak	58.69	51.29	7.39	68.23	-9.54

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Beam Forming Mode:

802.11nHT20 mode

Operation Mode :	802.11n20B1	Test Date :	11/01/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	52.14	46.26	5.88	54.00	-1.86
5150.00	E	Peak	67.90	62.02	5.88	74.00	-6.10

Operation Mode :	802.11n20B1	Test Date :	11/01/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	51.24	45.36	5.88	54.00	-2.76
5150.00	E	Peak	70.20	64.32	5.88	74.00	-3.80

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Operation Mode : 802.11n20B4 Test Date : 11/01/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	58.52	52.04	6.48	68.23	-9.71
5700.00	E	Peak	71.08	64.40	6.68	105.23	-34.15
5720.00	E	Peak	81.70	75.10	6.60	110.83	-29.13
5725.00	E	Peak	84.72	78.13	6.59	122.23	-37.51

Operation Mode : 802.11n20B4 Test Date : 11/01/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5650.00	E	Peak	57.08	50.60	6.48	68.23	-11.15
5700.00	E	Peak	66.11	59.43	6.68	105.23	-39.12
5720.00	E	Peak	78.30	71.70	6.60	110.83	-32.53
5725.00	E	Peak	79.93	73.34	6.59	122.23	-42.30

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Operation Mode : 802.11n20B4 Test Date : 11/01/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	79.52	72.24	7.28	122.23	-42.71
5855.00	E	Peak	77.19	69.87	7.32	110.83	-33.64
5875.00	E	Peak	65.03	57.66	7.37	105.23	-40.20
5925.00	E	Peak	58.12	50.73	7.39	68.23	-10.11

Operation Mode : 802.11n20B4 Test Date : 11/01/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	75.89	68.61	7.28	122.23	-46.34
5855.00	E	Peak	73.61	66.29	7.32	110.83	-37.22
5875.00	E	Peak	64.05	56.68	7.37	105.23	-41.18
5925.00	E	Peak	57.48	50.08	7.39	68.23	-10.75

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802.11n HT40 mode

Operation Mode :	802.11n40B1	Test Date :	11/01/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	51.46	45.58	5.88	54.00	-2.54
5150.00	E	Peak	69.92	64.04	5.88	74.00	-4.08

Operation Mode :	802.11n40B1	Test Date :	11/01/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	49.51	43.63	5.88	54.00	-4.49
5150.00	E	Peak	69.97	64.09	5.88	74.00	-4.03

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Operation Mode : 802.11n40B4 Test Date : 11/01/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5650.00	E	Peak	62.95	56.46	6.48	68.23	-5.28
5654.60	S	Peak	69.11	62.61	6.50	71.63	-2.52
5700.00	E	Peak	75.48	68.80	6.68	105.23	-29.75
5720.00	E	Peak	84.85	78.25	6.60	110.83	-25.98
5725.00	E	Peak	86.29	79.70	6.59	122.23	-35.94

Operation Mode : 802.11n40B4 Test Date : 11/01/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5650.00	E	Peak	61.66	55.18	6.48	68.23	-6.57
5700.00	E	Peak	72.39	65.71	6.68	105.23	-32.84
5720.00	E	Peak	79.20	72.60	6.60	110.83	-31.63
5725.00	E	Peak	83.11	76.52	6.59	122.23	-39.12

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Operation Mode : 802.11n40B4 Test Date : 11/01/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Kane
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	73.53	66.25	7.28	122.23	-48.70
5855.00	E	Peak	74.10	66.78	7.32	110.83	-36.73
5875.00	E	Peak	67.63	60.26	7.37	105.23	-37.60
5925.00	E	Peak	58.98	51.59	7.39	68.23	-9.25

Operation Mode : 802.11n40B4 Test Date : 11/01/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Kane
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	69.83	62.55	7.28	122.23	-52.40
5855.00	E	Peak	68.06	60.74	7.32	110.83	-42.77
5875.00	E	Peak	62.88	55.51	7.37	105.23	-42.35
5925.00	E	Peak	58.01	50.62	7.39	68.23	-10.22

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802.11ac80 VHT mode

Operation Mode : 802.11ac80B1 Test Date : 11/01/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5124.00	S	Average	51.44	45.53	5.91	54.00	-2.56
5124.00	S	Peak	71.73	65.82	5.91	74.00	-2.27
5143.70	S	Average	51.88	45.98	5.90	54.00	-2.12
5143.70	S	Peak	71.68	65.77	5.90	74.00	-2.32
5150.00	E	Average	51.66	45.78	5.88	54.00	-2.34
5150.00	E	Peak	66.40	60.51	5.88	74.00	-7.60

Operation Mode : 802.11ac80B1 Test Date : 11/01/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5150.00	E	Average	51.47	45.59	5.88	54.00	-2.53
5150.00	E	Peak	71.18	65.30	5.88	74.00	-2.82

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode : 802.11ac80B4 Test Date : 11/01/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Kane
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5648.50	S	Peak	66.94	60.47	6.47	68.23	-1.29
5650.00	E	Peak	64.53	58.04	6.48	68.23	-3.70
5700.00	E	Peak	73.11	66.43	6.68	105.23	-32.12
5720.00	E	Peak	77.60	71.00	6.60	110.83	-33.23
5725.00	E	Peak	83.75	77.15	6.59	122.23	-38.48

Operation Mode : 802.11ac80B4 Test Date : 11/01/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Kane
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5649.48	S	Peak	66.82	60.34	6.48	68.23	-1.41
5650.00	E	Peak	64.35	57.86	6.48	68.23	-3.88
5700.00	E	Peak	69.93	63.25	6.68	105.23	-35.30
5720.00	E	Peak	69.27	62.67	6.60	110.83	-41.56
5725.00	E	Peak	75.21	68.62	6.59	122.23	-47.02

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Operation Mode : 802.11ac80B4 Test Date : 11/01/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	71.04	63.76	7.28	122.23	-51.19
5855.00	E	Peak	69.77	62.45	7.32	110.83	-41.06
5875.00	E	Peak	63.95	56.58	7.37	105.23	-41.28
5925.00	E	Peak	59.10	51.71	7.39	68.23	-9.13

Operation Mode : 802.11ac80B4 Test Date : 11/01/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBμV/m	dB
5850.00	E	Peak	68.40	61.12	7.28	122.23	-53.83
5855.00	E	Peak	65.01	57.69	7.32	110.83	-45.82
5875.00	E	Peak	61.61	54.24	7.37	105.23	-43.62
5925.00	E	Peak	59.63	52.23	7.39	68.23	-8.60

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f (886-2) 2298-0488

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

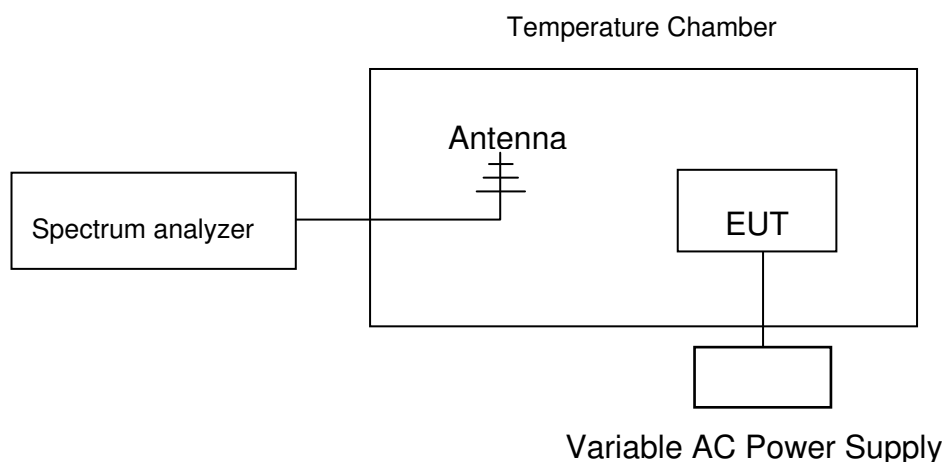
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

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13.5 Measurement Result

Test Date 2016.10.13
Test By Cooper

13.2V	36	5180	5,179.98486	0.00000292
	44	5220	5,219.98486	0.00000290
	48	5240	5,240.00000	0.00000000
	149	5745	5,744.98486	0.00000263
	157	5785	5,784.98486	0.00000262
	165	5825	5,825.00000	0.00000000

-10

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Test Date 2016.10.13
Test By Cooper

		38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
-10	13.2V	151	5755	5,754.97510	0.00000433

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Test Date 2016.10.13
Test By Cooper

-10 42 5210 5,210.05005 -0.00000961

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

PCB antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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