

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND REQUIREMENT

OF

Product Name: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module

Brand Name: Foxconn

Model No.: WBU034

Model Difference: N/A

FCC ID: RX3-WBU034

Report No.: ER/2016/80037

Issue Date: Aug. 19, 2016

FCC Rule Part: §15.407

Prepared for: Hon Hai Precision Industry Co., Ltd.
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SGS Taiwan Ltd.
Electronics & Communication Laboratory

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



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VERIFICATION OF COMPLIANCE

Applicant (FCC): Hon Hai Precision Industry Co., Ltd.
No.151, Sec. 1, Nankan Rd., Lujhu Township, Taoyuan County,
33859, Taiwan (R.O.C)

Product Name: 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module

Brand Name: Foxconn

Model No.: WBU034

Model Difference: N/A

FCC ID: RX3-WBU034

File Number: ER/2016/80037

Date of Test: Aug. 05, 2016 ~ Aug. 16, 2016

Date of EUT Received: Aug. 05, 2016

We hereby certify that:

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

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

Test By:

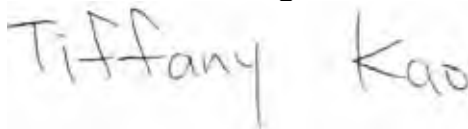


Date:

Aug. 19, 2016

Tin Lin / Engineer

Prepared By:

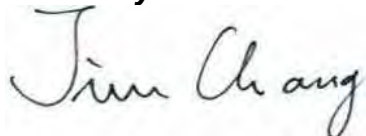


Date:

Aug. 19, 2016

Tiffany Kao / Clerk

Approved By:



Date:

Aug. 19, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/80037	Rev.00	Initial creation of document	Aug. 19, 2016

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module
Brand Name:	Foxconn
Model No.:	WBU034
Model Difference:	N/A
Product SW/HW version:	N/A / DVT
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3Vdc from Test Kit

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	14.44 dBm (Avg.)	OFDM
	5250~5350	4	14.47 dBm (Avg.)	
	5470~5725	12	14.49 dBm (Avg.)	
	5725-5850	5	14.49 dBm	
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 14.48 dBm (Avg.) (Worst Case)	OFDM
	HT / VHT20 5250~5350	4	HT: 14.49 dBm (Avg.) (Worst Case)	
	HT / VHT20 5470~5725	11	HT: 14.46 dBm (Avg.) (Worst Case)	
	HT / VHT20 5725-5850	5	HT: 14.46 dBm (Worst Case)	
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 14.42 dBm (Avg.) (Worst Case)	OFDM
	HT / VHT40 5250~5350	2	HT: 14.49 dBm (Avg.) (Worst Case)	
	HT / VHT40 5470~5725	5	HT: 14.49 dBm (Avg.) (Worst Case)	
	HT / VHT40 5725-5850	2	HT: 14.45 dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	14.21 dBm (Avg.)	OFDM
	VHT80 5250~5350	1	14.24 dBm (Avg.)	
	VHT80 5470~5725	2	14.18 dBm (Avg.)	
	VHT80 5725-5850	1	14.09 dBm	

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<p>Antenna Designation</p>	<p>PCB Antenna (Internal),</p> <p>1. Main</p> <p>5GHz Gain: 2.78dBi (5150MHz-5250MHz) 5GHz Gain: 2.78dBi (5250MHz-5350MHz) 5GHz Gain: 1.89dBi (5470MHz-5725MHz) 5GHz Gain: -0.57dBi (5725MHz-5850MHz)</p> <p>2. Aux</p> <p>5GHz Gain: 3.01dBi (5150MHz-5250MHz) 5GHz Gain: 3.01dBi (5250MHz-5350MHz) 5GHz Gain: 4.11dBi (5470MHz-5725MHz) 5GHz Gain: 2.66dBi (5725MHz-5850MHz)</p>
<p>Modulation type</p>	<p>64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only</p>
<p>Transition Rate:</p>	<p>802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps</p>

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is 2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module, supporting Wi-Fi 802.11abgn/ac, Bluetooth, features, and below is details of information.

Product Feature	
Product Name:	2x2 dual-band IEEE 802.11 a/b/g/n/ac and BT4.2 Combo Module
Brand Name:	Foxconn
Model No.:	WBU034
Model Difference:	N/A
FCC ID:	RX3-WBU034
Bluetooth Version	V4.2 dual mode
Wi-Fi- Specification	802.11a/b/g/n/ac

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

ANSI C63.10:2013

Note:

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

1.4 Test Facility

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

FCC Registration Numbers are: 509634

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 a placed on as 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 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation example with cable loss 3.3dB, and 10dB attenuator.

SISO mode offset:

$$= \text{RF cable loss (dB)} + \text{attenuation factor (dB)} = 10.3(\text{dB})$$

MIMO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor (dB)} + 10 \log(\text{NANT}) \text{ dB} = 13.3(\text{dB})$$

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) & Conduction (AC Power Line) Configuration

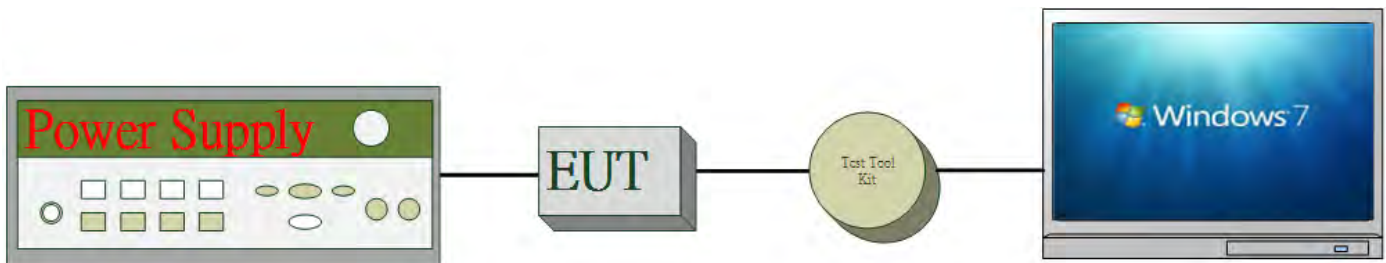


Table 2-1 Equipment Used in Tested System

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	Shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	KR93300208	N/A	Un-shielded
4.	Test Kit	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

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

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

5 channels are provided for 802.11n_HT40, 802.11ac_VHT40

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

2 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz

Operated band in 5725 MHz ~5850 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
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	1	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11a	5500~5720	100 to 140	100,116,140	OFDM	1	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	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	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/250 -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

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 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.
- The LISN was connected with 120Vac/60Hz power source.

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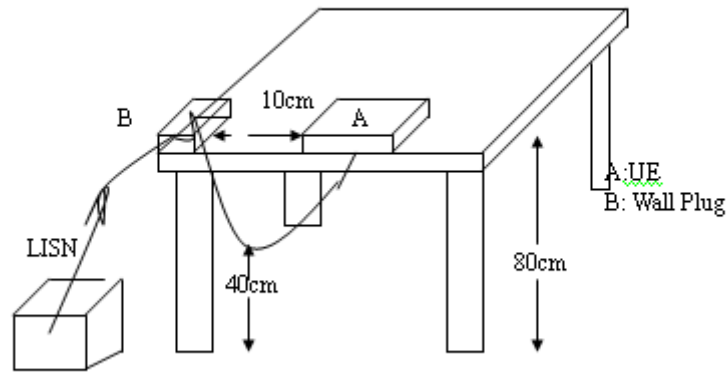
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6.4. Test SET-UP



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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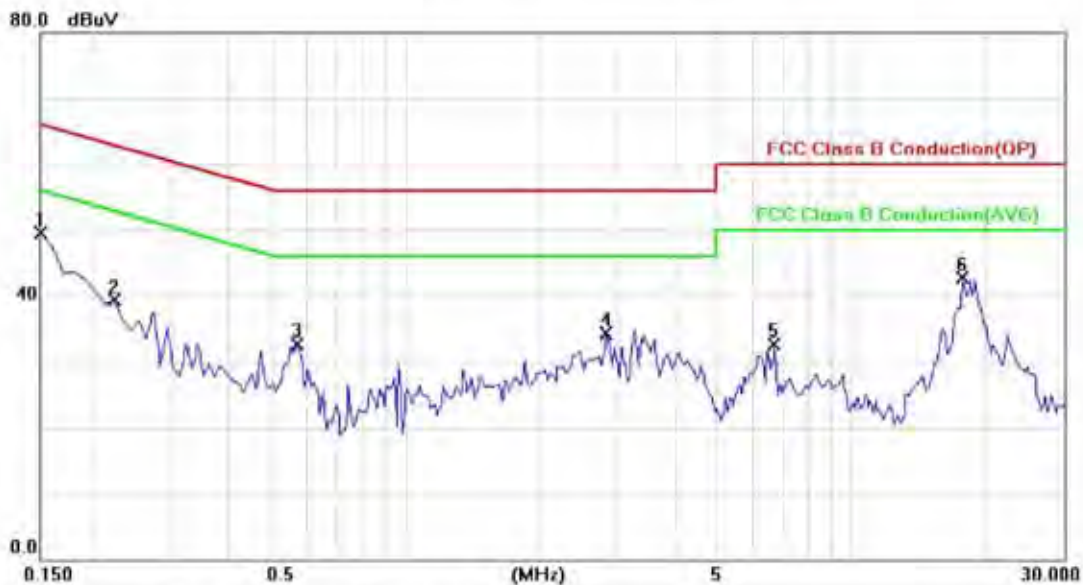
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Aug. 16, 2016	
Temperature:	20	Humidity:	58 %	Test By:	Tin
				Phase:	L1

Site: ConductionRoom	Phase: L1	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
Mode: Operationmode		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	49.44	0.16	49.60	66.00	-16.40	peak	
2		0.2200	39.09	0.16	39.25	62.82	-23.57	peak	
3		0.5700	32.62	0.17	32.79	56.00	-23.21	peak	
4		2.8200	34.01	0.23	34.24	56.00	-21.76	peak	
5		6.7200	32.30	0.31	32.61	60.00	-27.39	peak	
6		17.6800	42.32	0.42	42.74	60.00	-17.26	peak	

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Site: ConductionRoom	Phase: N	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
Mode: Operationmode		
Note:		

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1800	48.07	0.19	48.26	64.49	-16.23	peak	
2		0.2200	38.05	0.19	38.24	62.82	-24.58	peak	
3		0.2900	35.07	0.20	35.27	60.52	-25.25	peak	
4		0.5400	33.57	0.19	33.76	56.00	-22.24	peak	
5		3.1800	35.13	0.28	35.41	56.00	-20.59	peak	
6		17.5200	34.68	0.53	35.21	60.00	-24.79	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
802.11a	99.99	0.00
802.11n_20	99.99	0.00
802.11ac_20	99.99	0.00
802.11n_40	99.99	0.00
802.11ac_40	99.99	0.00
802.11ac_80	99.99	0.00

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

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

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

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

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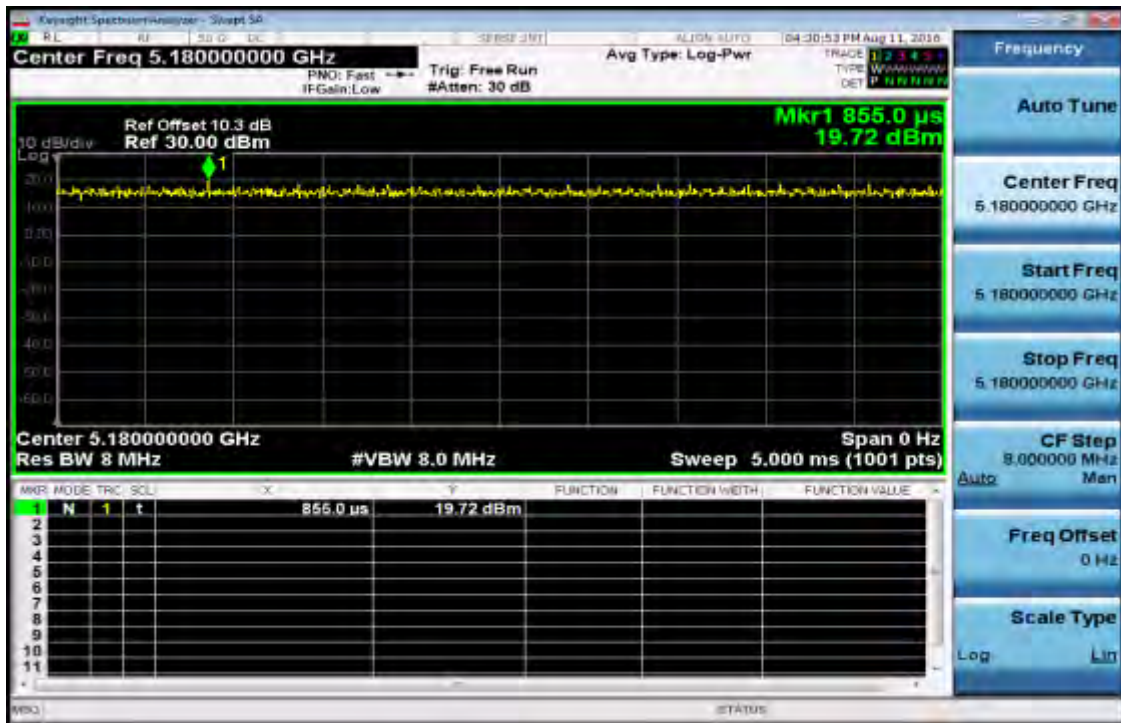
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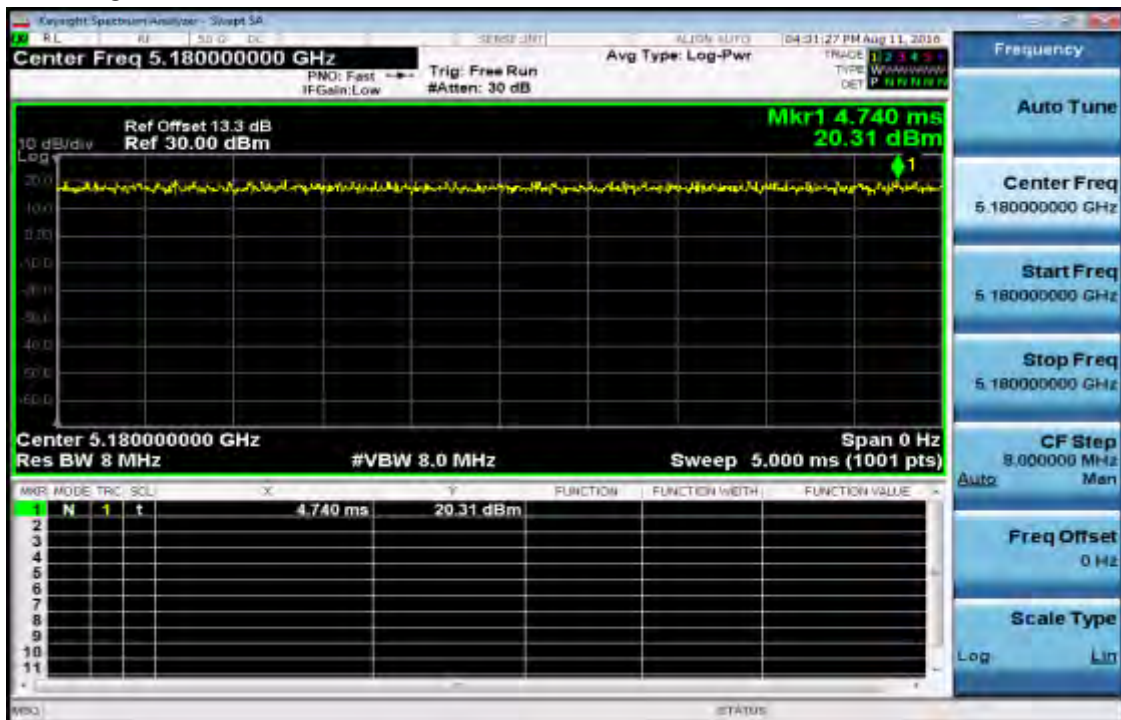
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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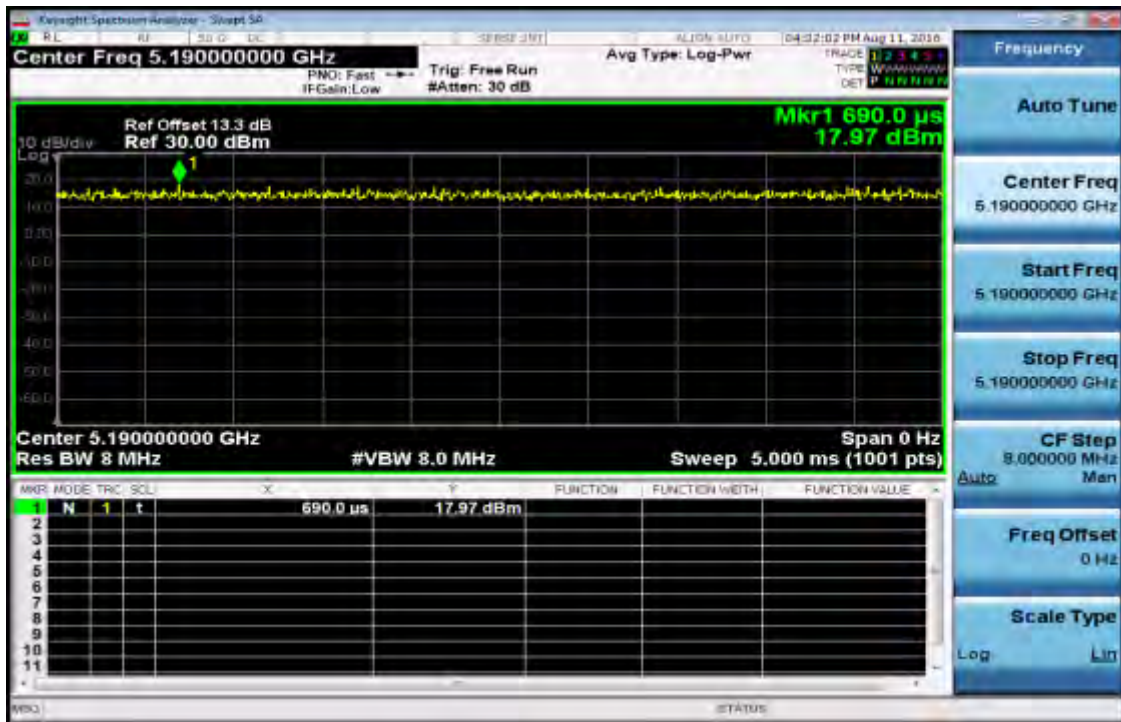
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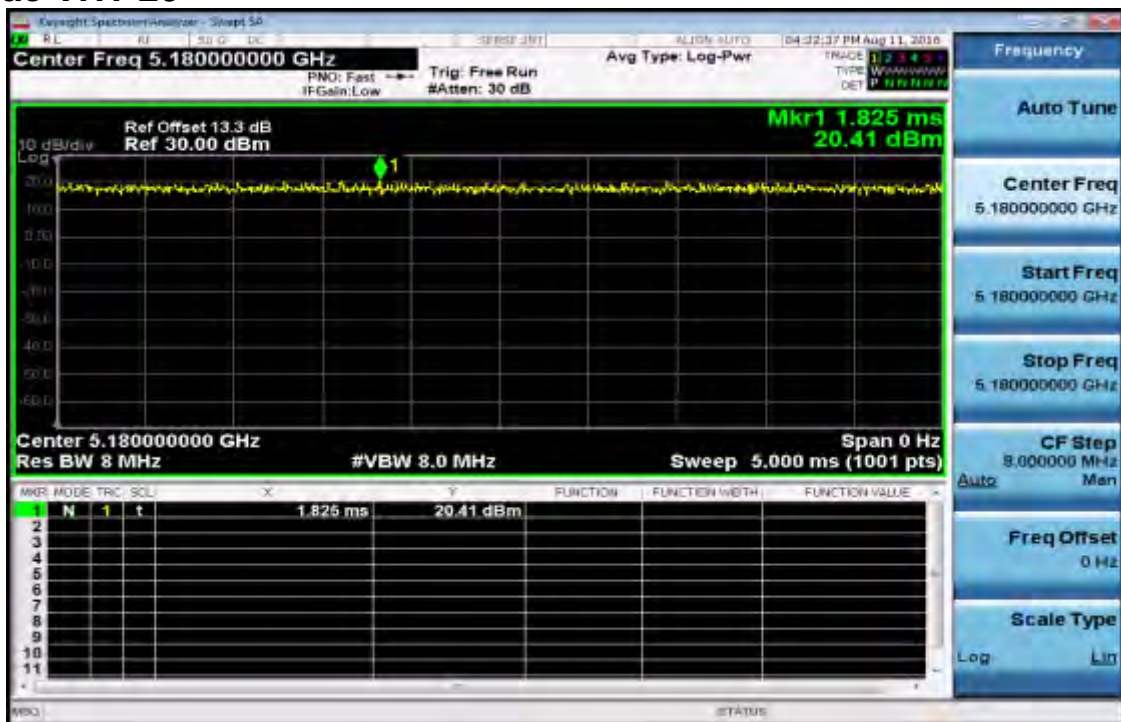
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802.11n HT 40



802.11ac VHT 20



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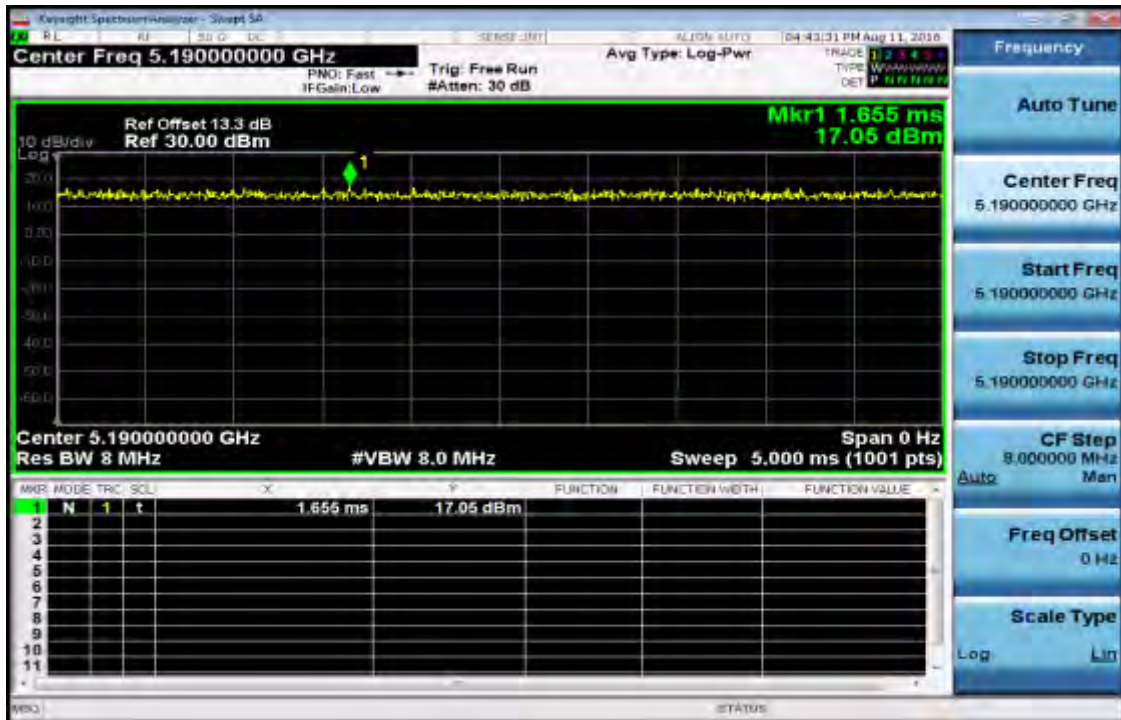
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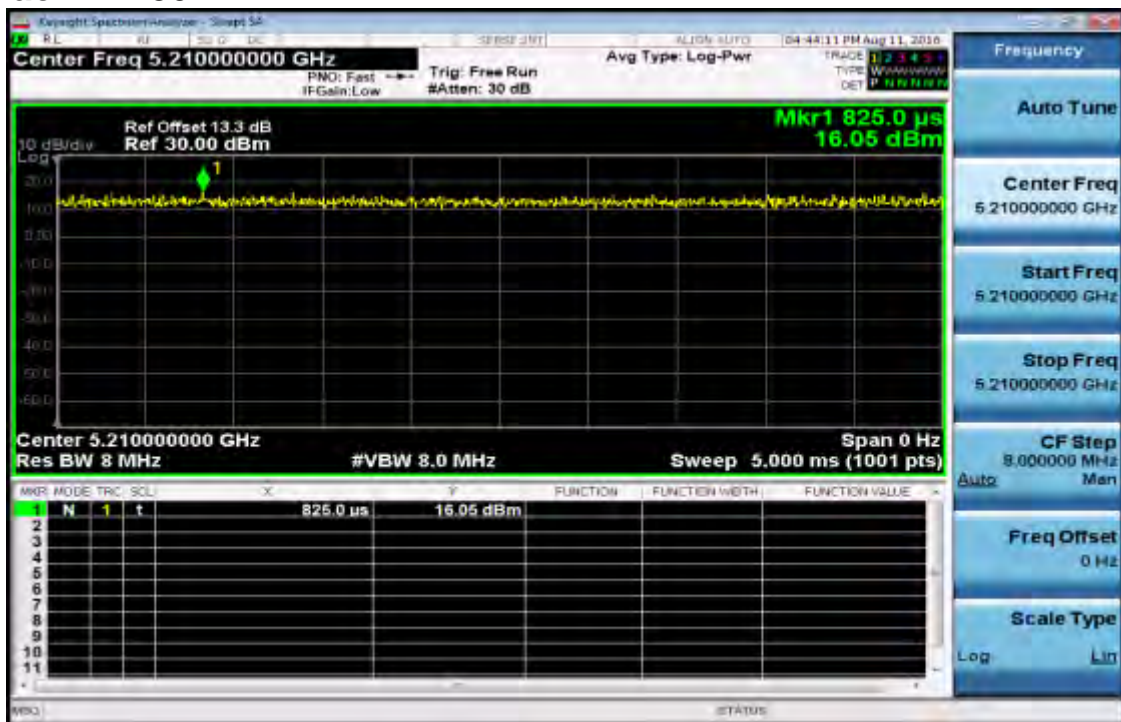
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802.11ac VHT 40



802.11 ac VHT 80



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8. 26dB & 6dB & 99% EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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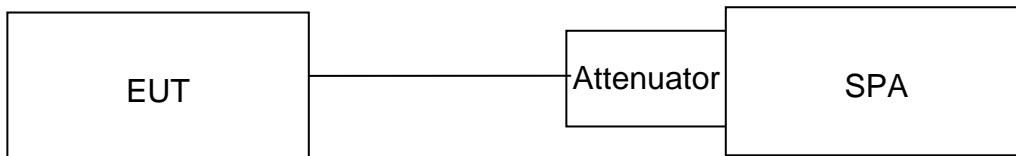
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
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	19.94	12.997
5220	20.48	13.112
5240	20.10	13.031
5260	19.85	12.978
5300	20.02	13.015
5320	20.13	13.038
5500	20.57	13.132
5580	20.74	13.169
5700	20.32	13.079

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.25	13.063
5220	20.05	13.022
5240	20.13	13.039
5260	20.34	13.082
5300	20.25	13.065
5320	20.12	13.035
5500	20.42	13.101
5580	20.38	13.092
5700	19.97	13.005

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.23	13.061
5220	20.32	13.080
5240	20.31	13.076
5260	20.18	13.050
5300	19.75	12.955
5320	20.03	13.016
5500	20.41	13.099
5580	20.14	13.040
5700	20.34	13.084

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802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.56	16.081
5230	39.46	15.962
5270	41.04	16.132
5310	40.17	16.039
5510	40.52	16.076
5550	40.68	16.094
5670	40.30	16.053

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.19	16.041
5230	40.49	16.073
5270	40.05	16.026
5310	40.57	16.082
5510	40.16	16.038
5550	40.70	16.096
5670	40.30	16.053

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.82	19.234
5290	80.85	19.077
5530	80.37	19.051
5610	80.66	19.067

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.99	19.084
5290	80.83	19.076
5530	80.92	19.080
5610	81.06	19.088

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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	16.44	12.159
5785	16.40	12.149
5825	16.51	12.178

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.63	12.463
5785	17.63	12.463
5825	17.63	12.462

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.64	12.464
5785	17.63	12.461
5825	17.63	12.462

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.36	15.606
5795	36.37	15.607

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.35	15.605
5795	36.33	15.603

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.74	18.793

802.11ac_VHT80_Aux1

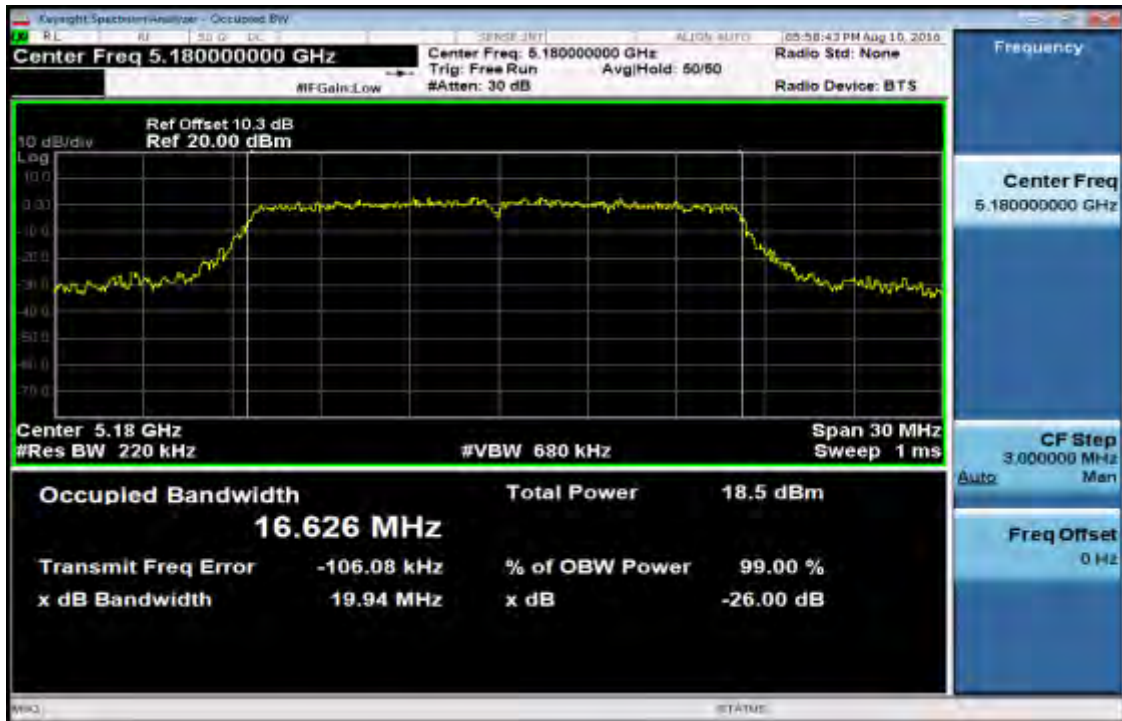
Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.63	18.611

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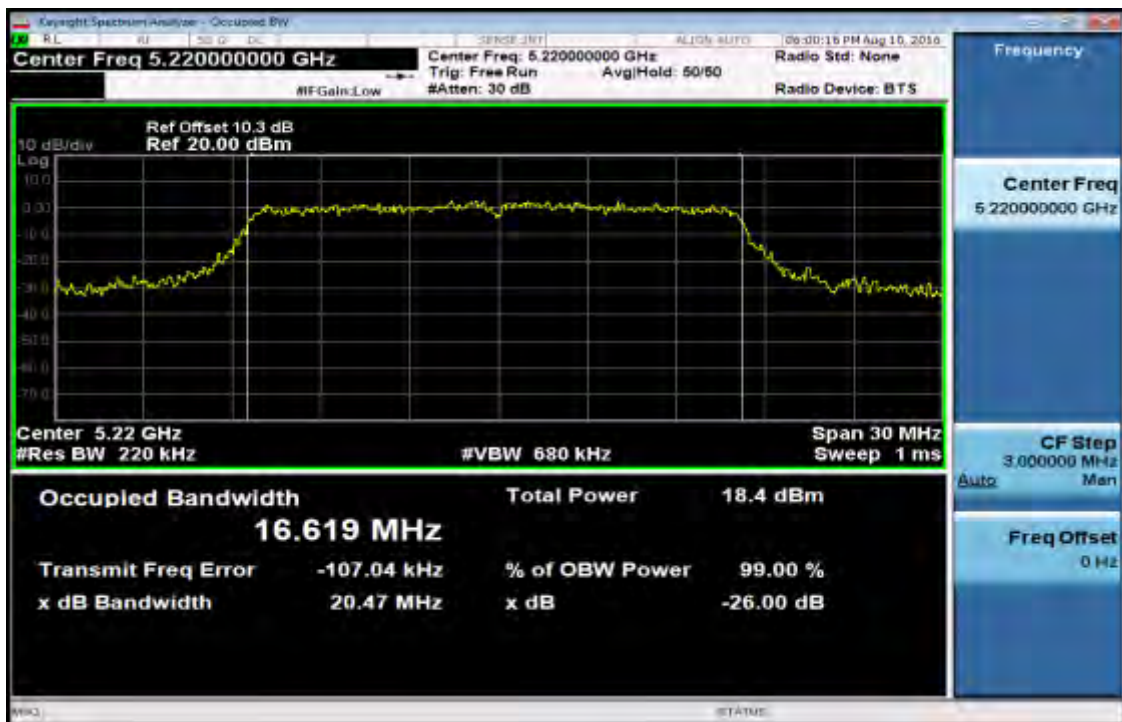
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802.11a, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5180MHz)



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

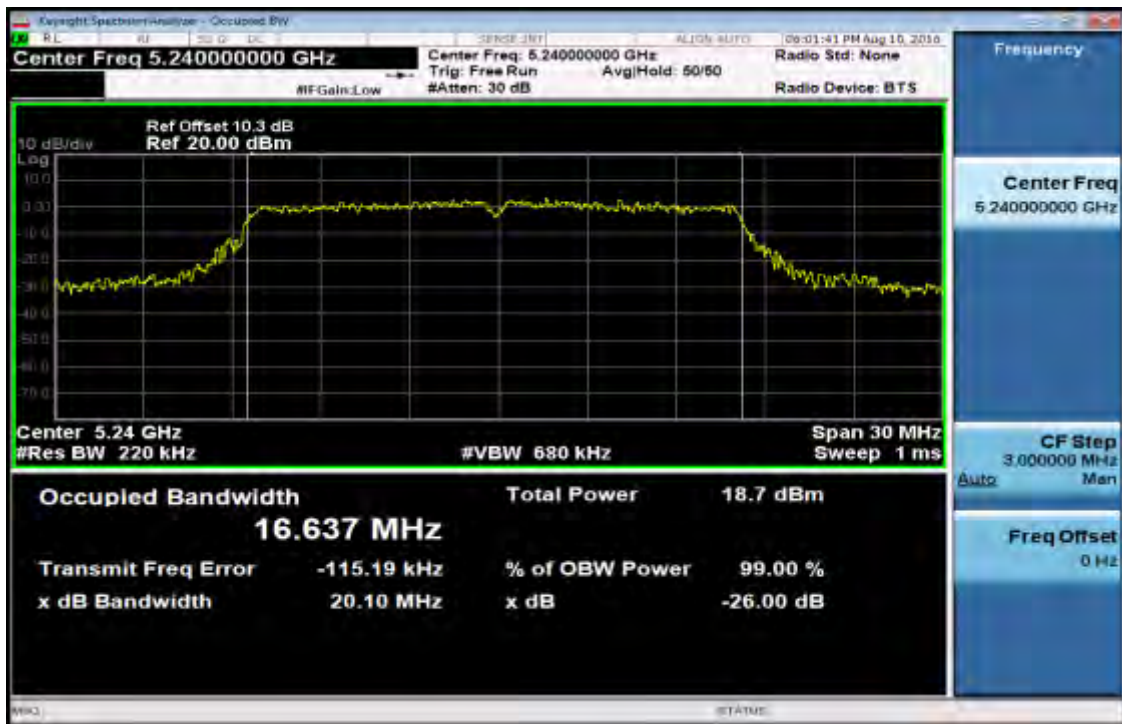


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26dB Band Width Test Data CH-High (5240MHz)



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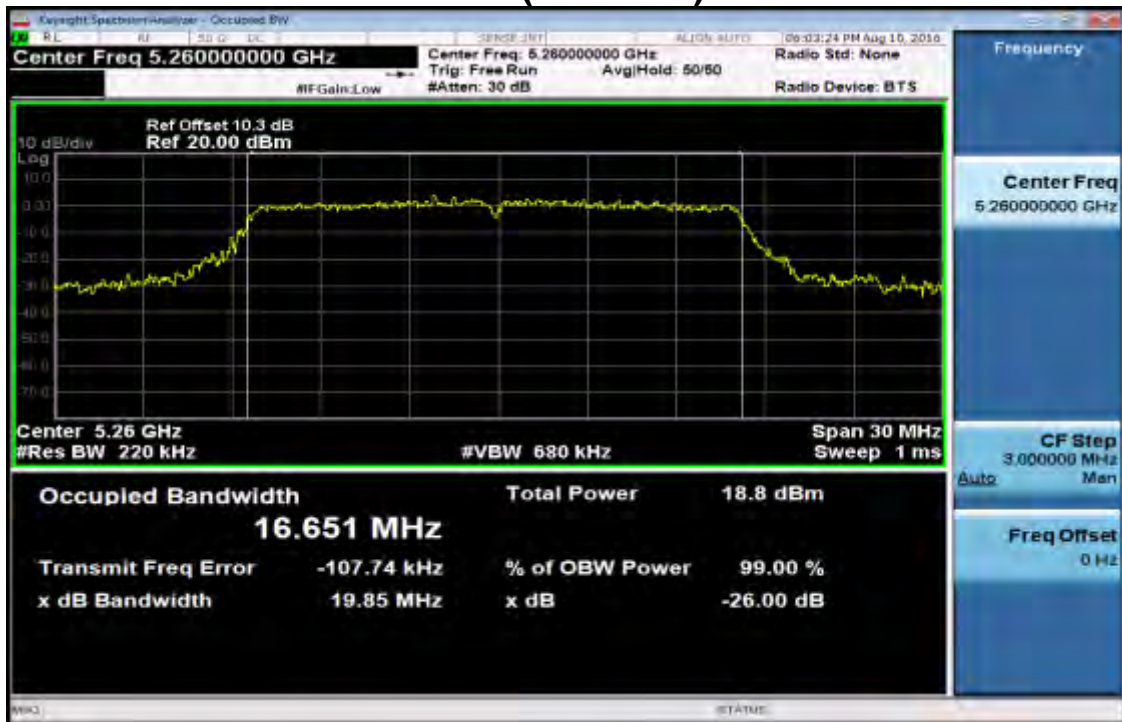
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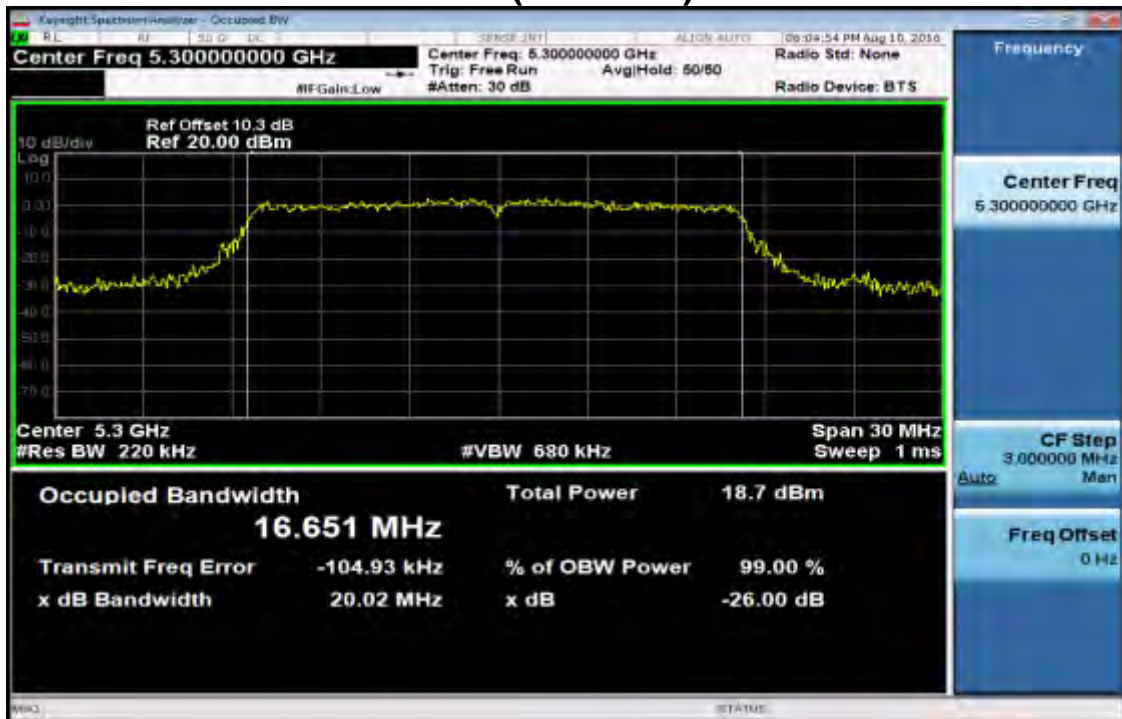
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802.11a, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5260MHz)



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



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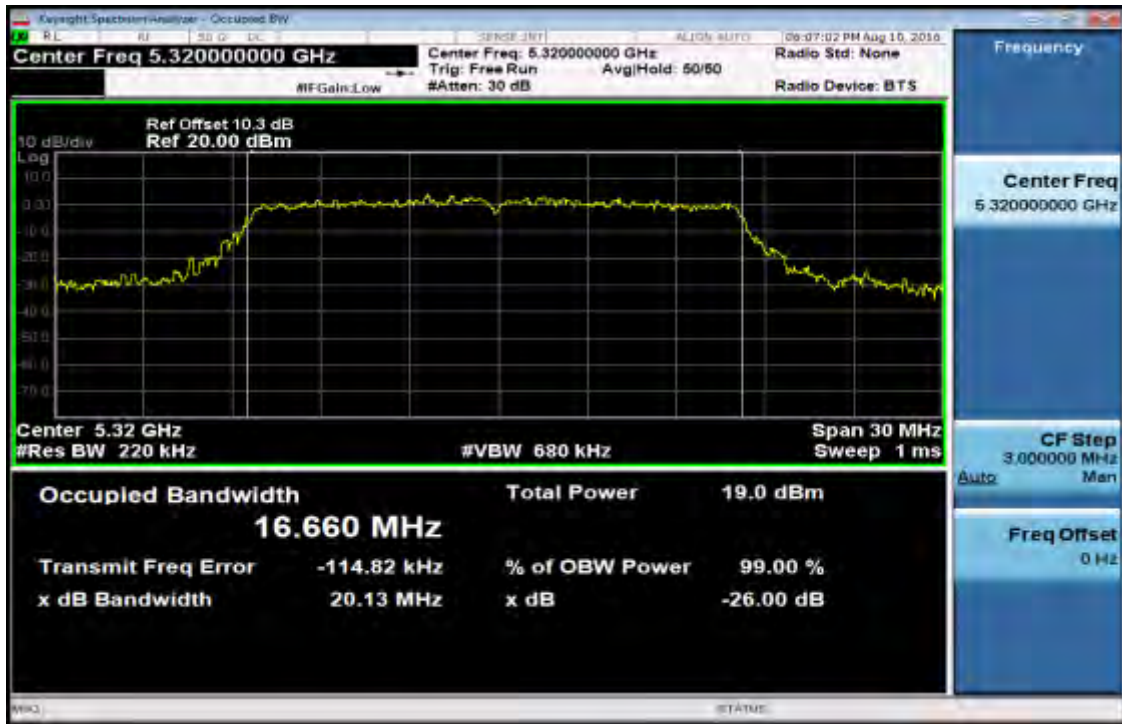
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26dB Band Width Test Data CH-High (5320MHz)



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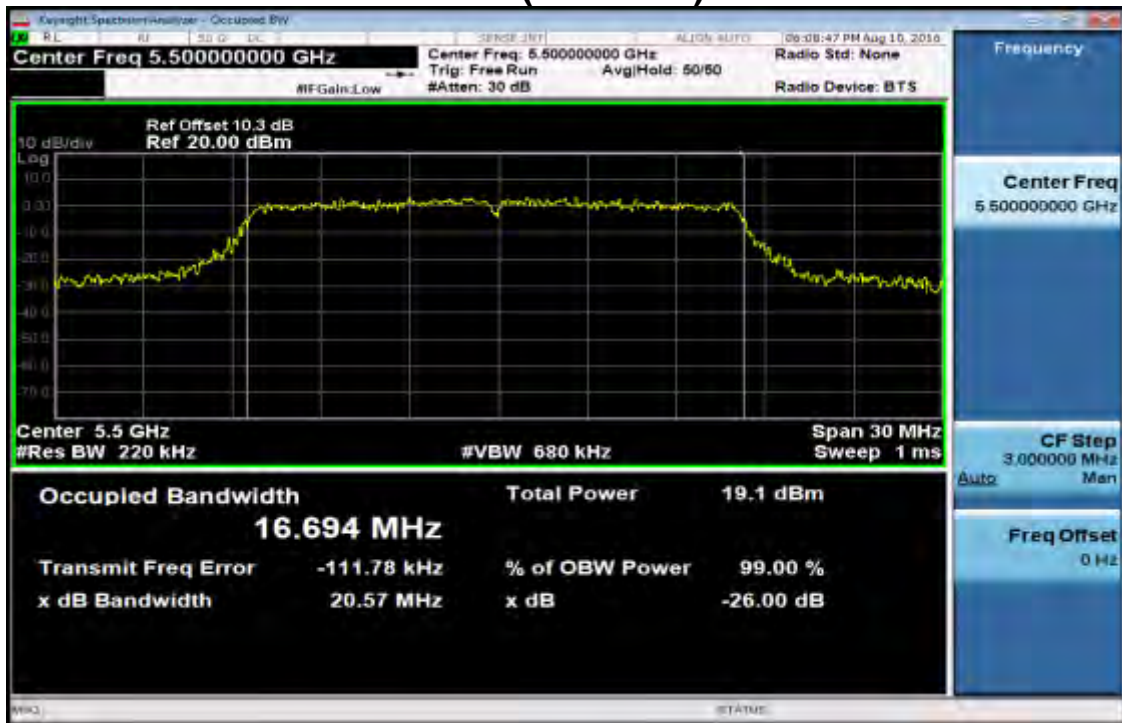
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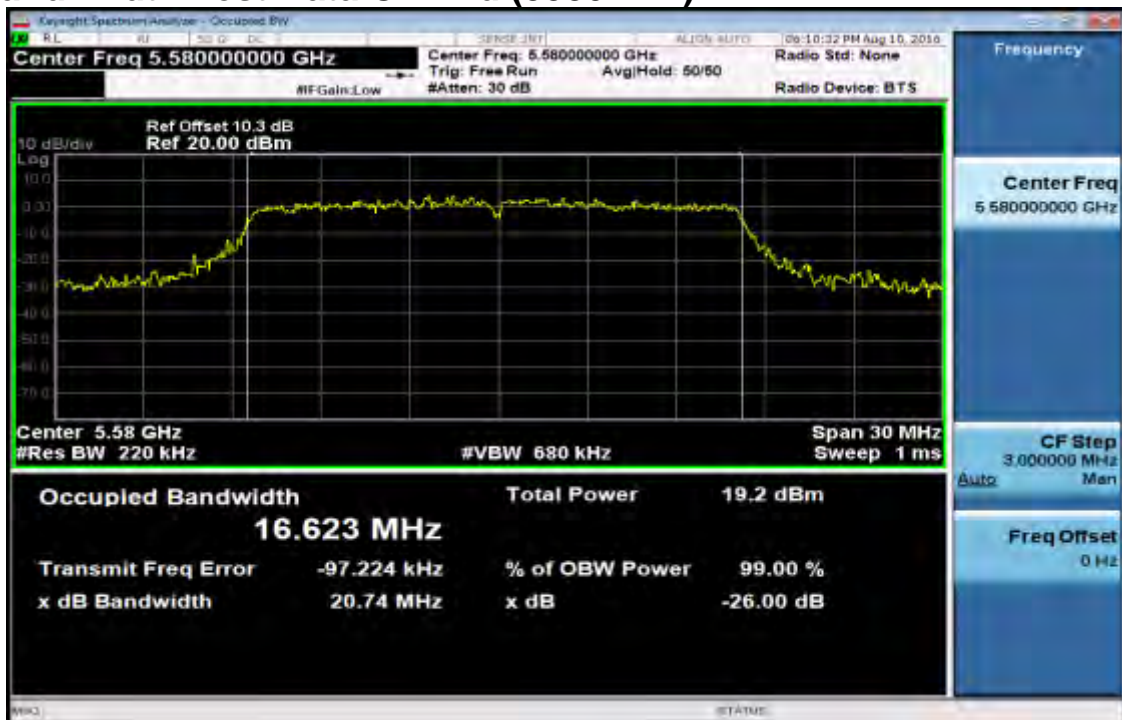
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802.11a, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5500MHz)



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



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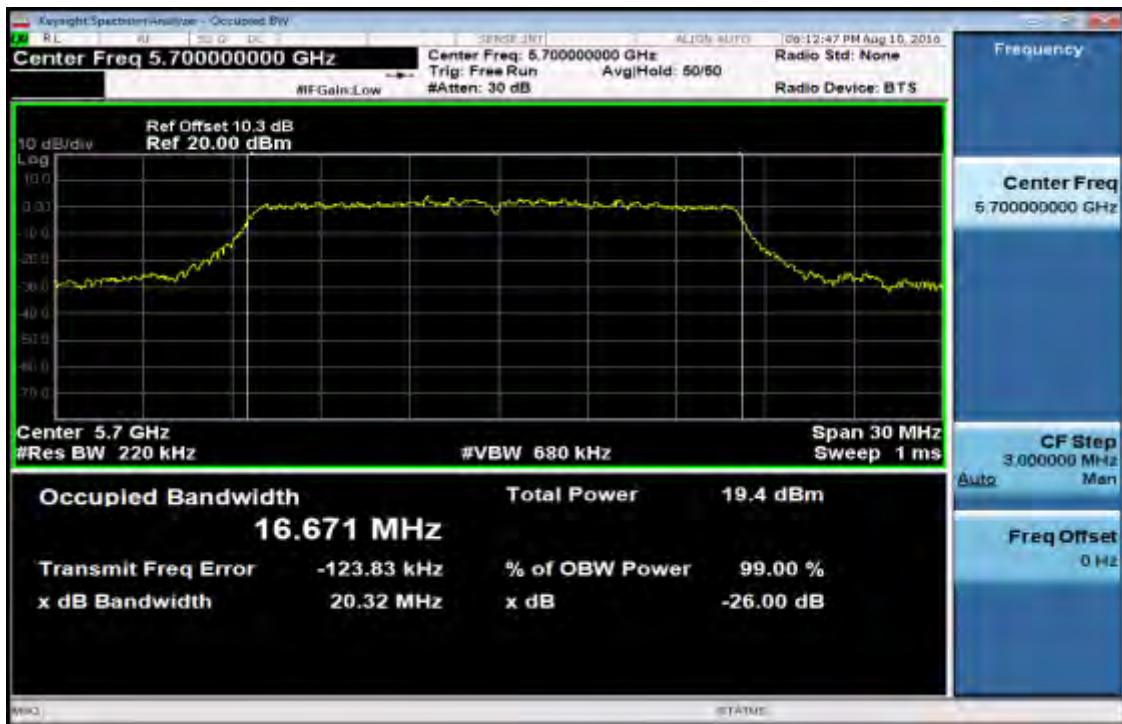
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26dB Band Width Test Data CH-High (5700MHz)



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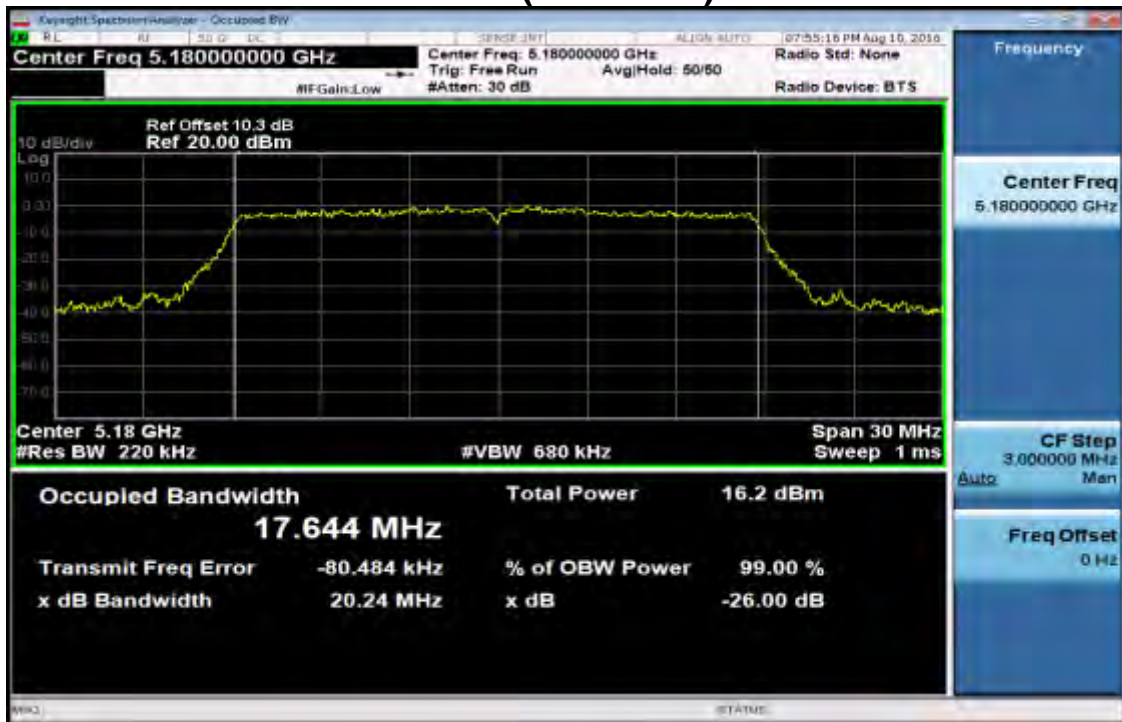
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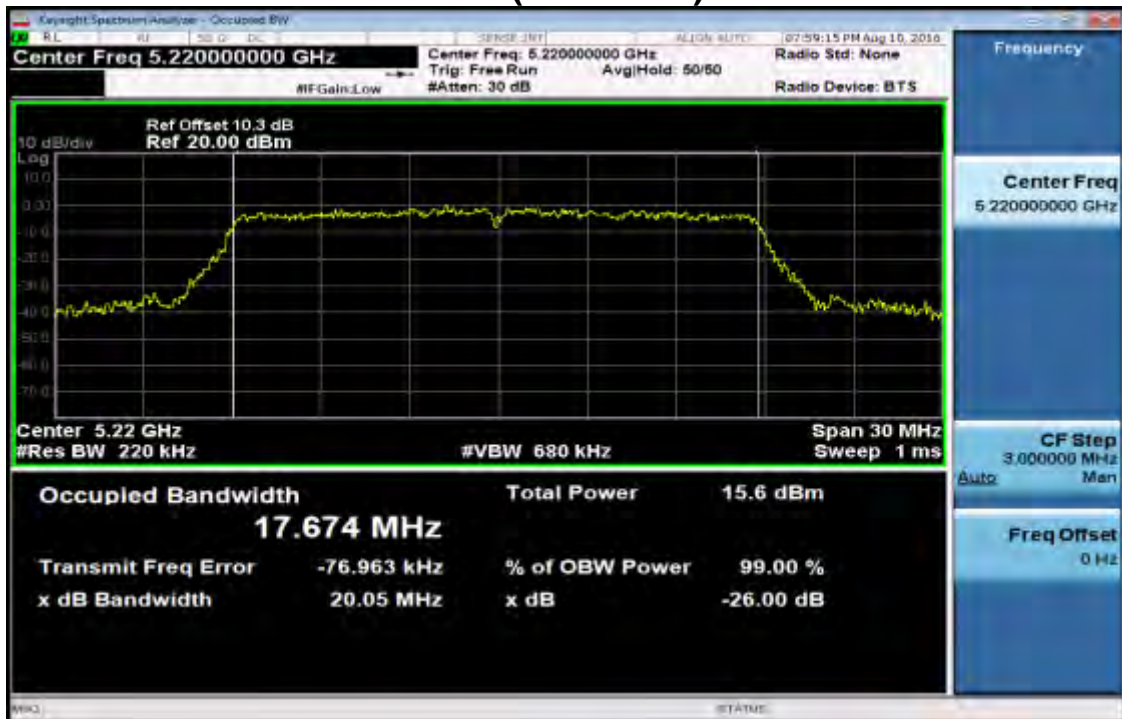
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**802.11n HT20, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5180 MHz)**



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



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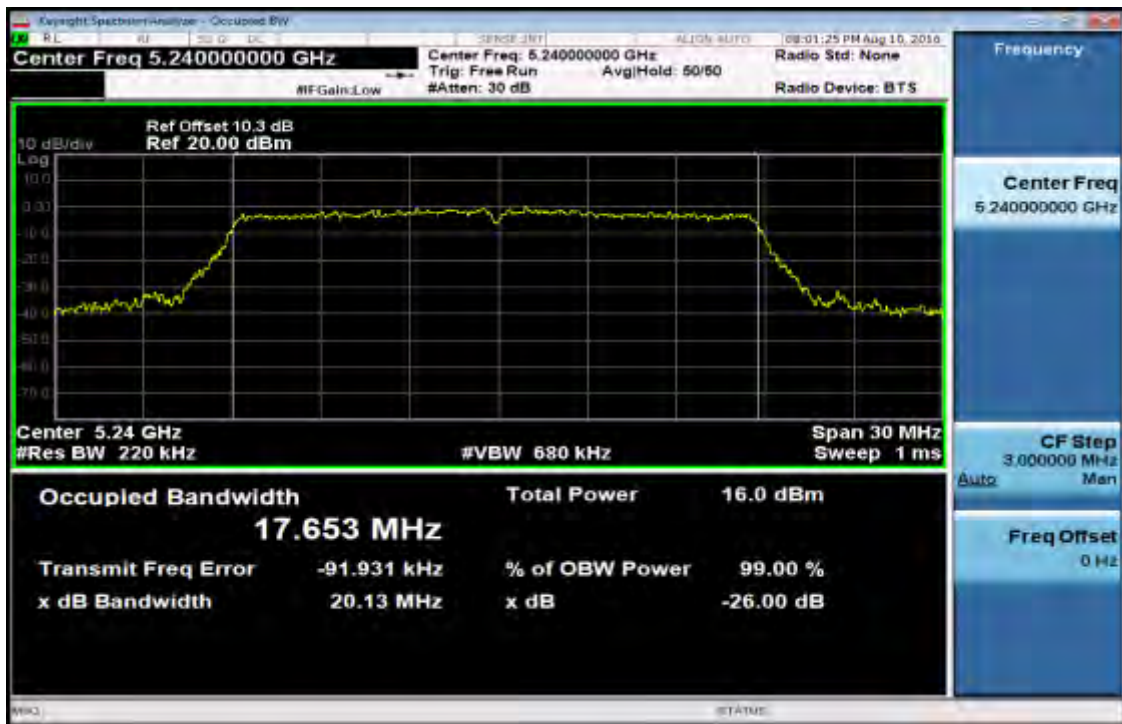
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26dB Band Width Test Data CH-High (5240 MHz)



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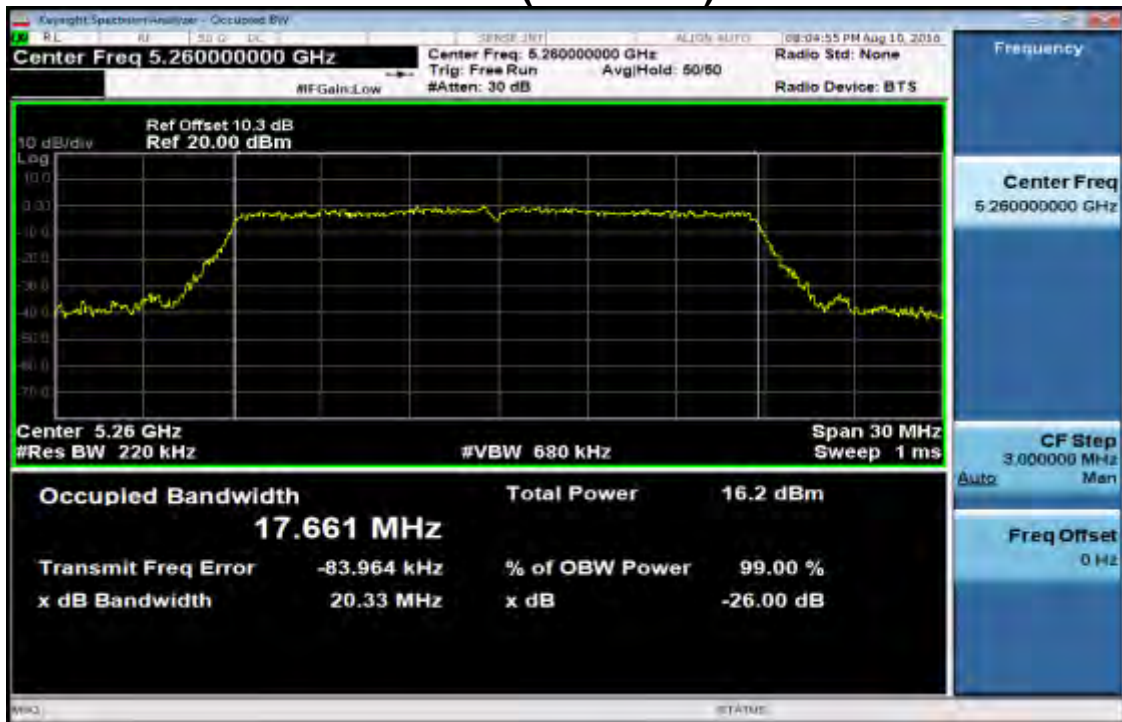
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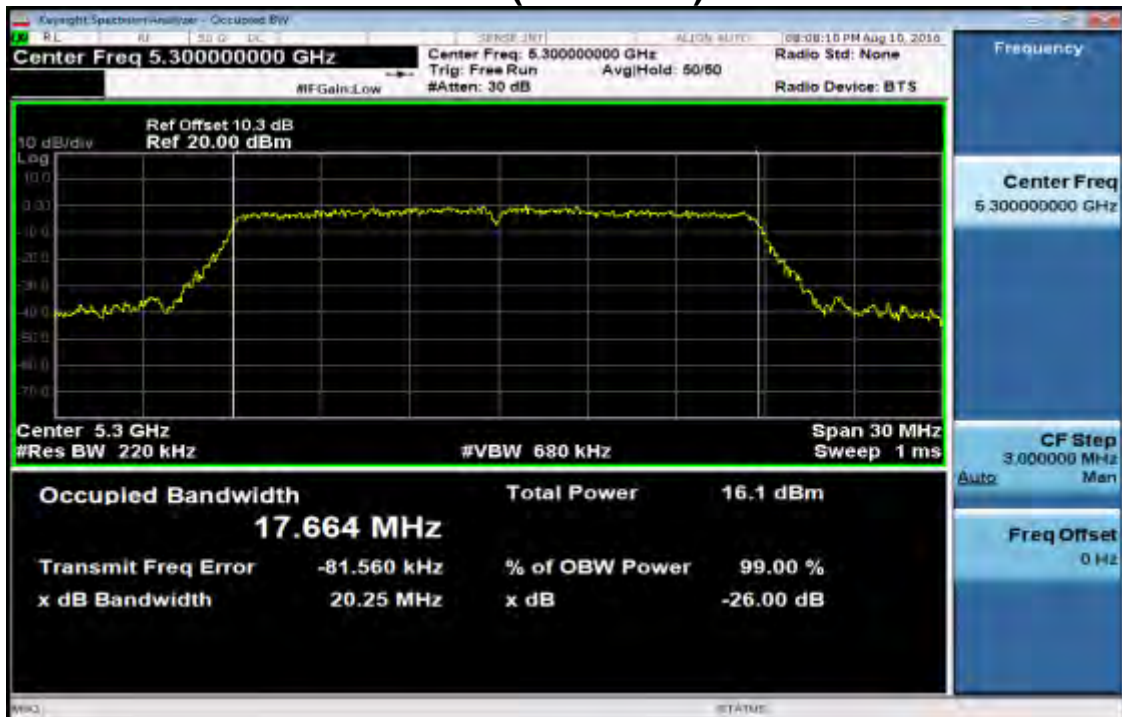
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**802.11n HT20, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5260 MHz)**



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



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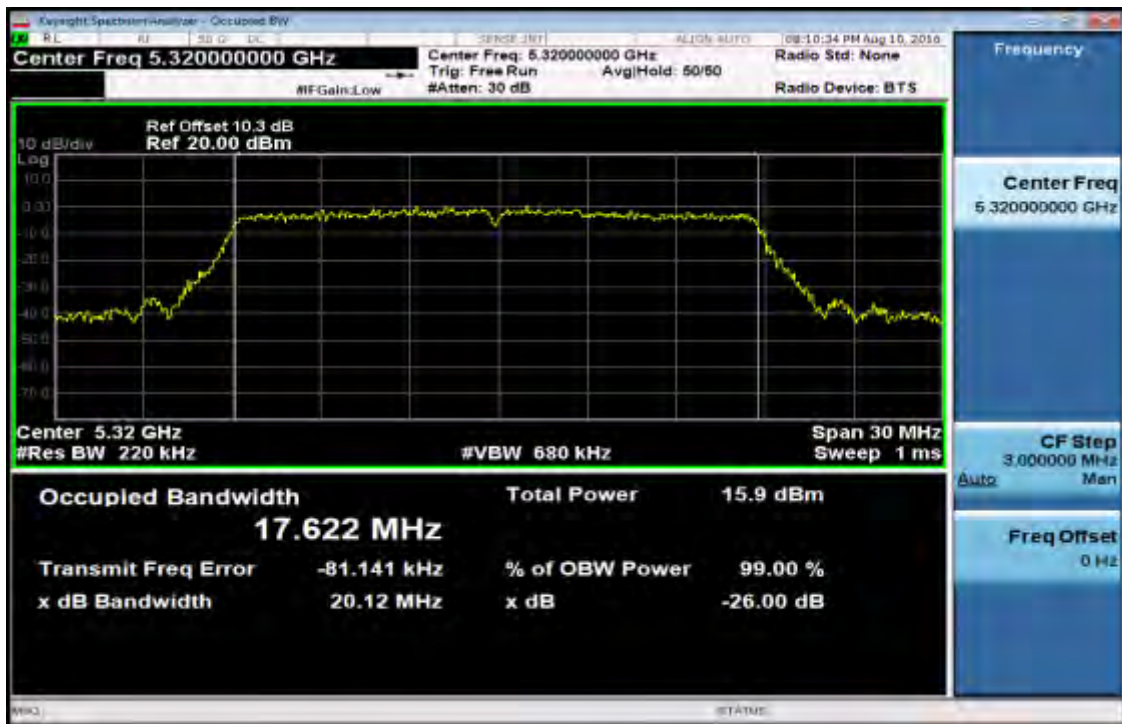
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26dB Band Width Test Data CH-High (5320 MHz)



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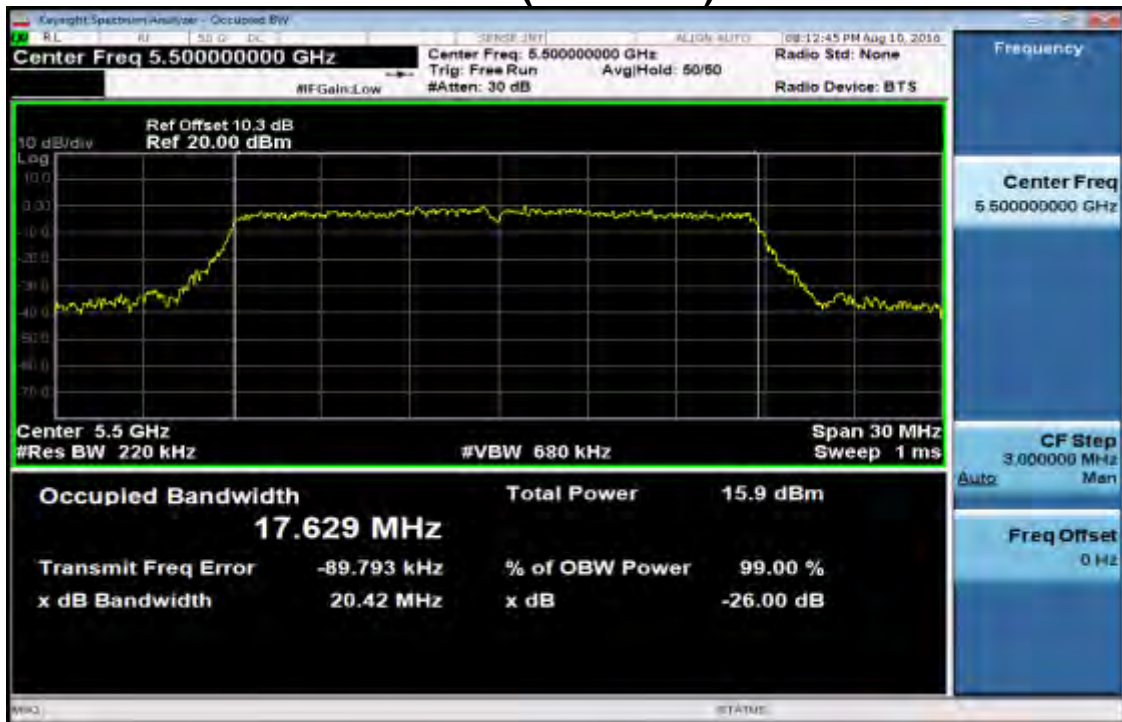
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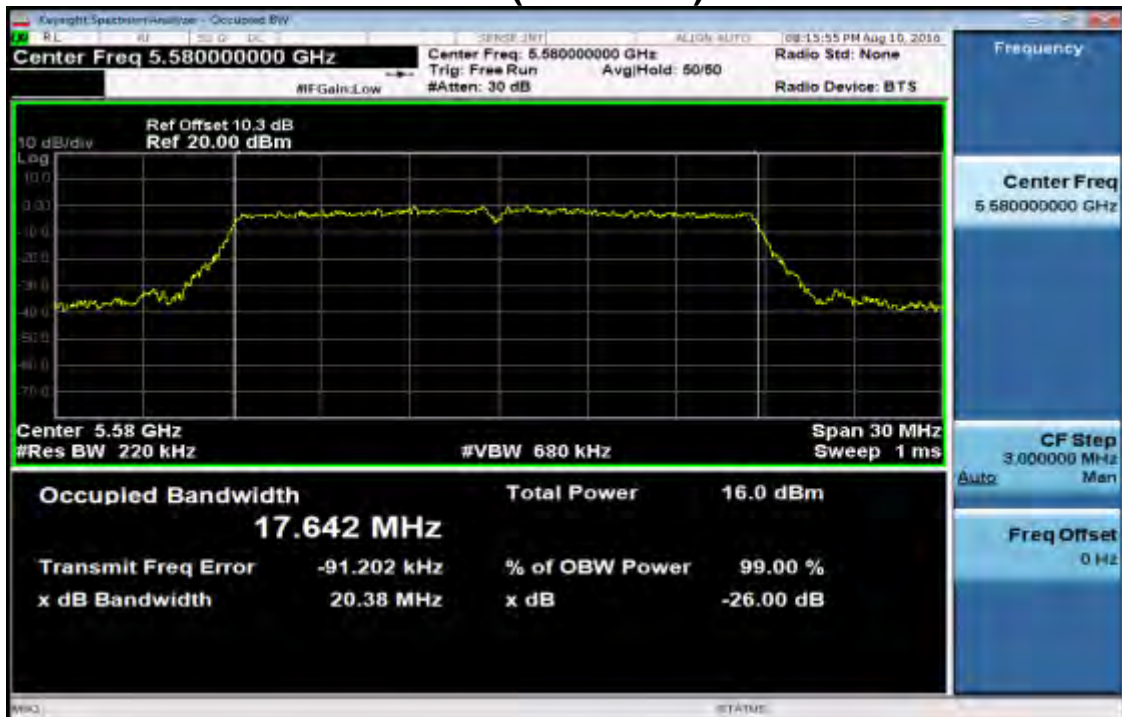
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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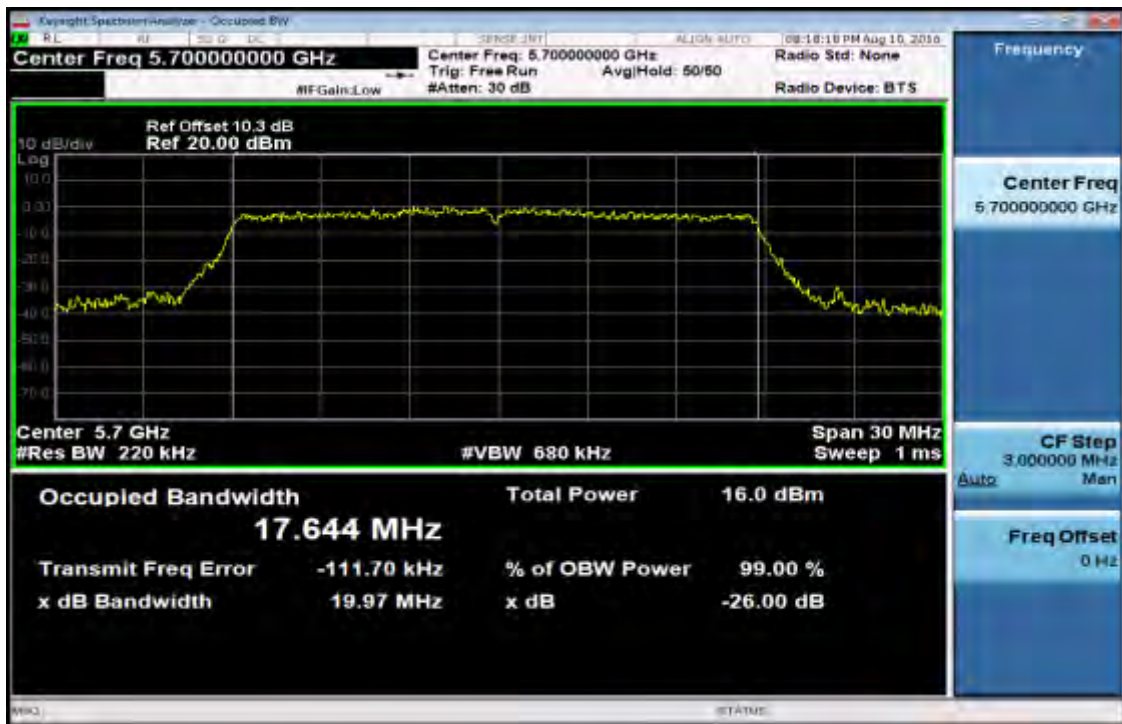
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26dB Band Width Test Data CH-High (5700 MHz)



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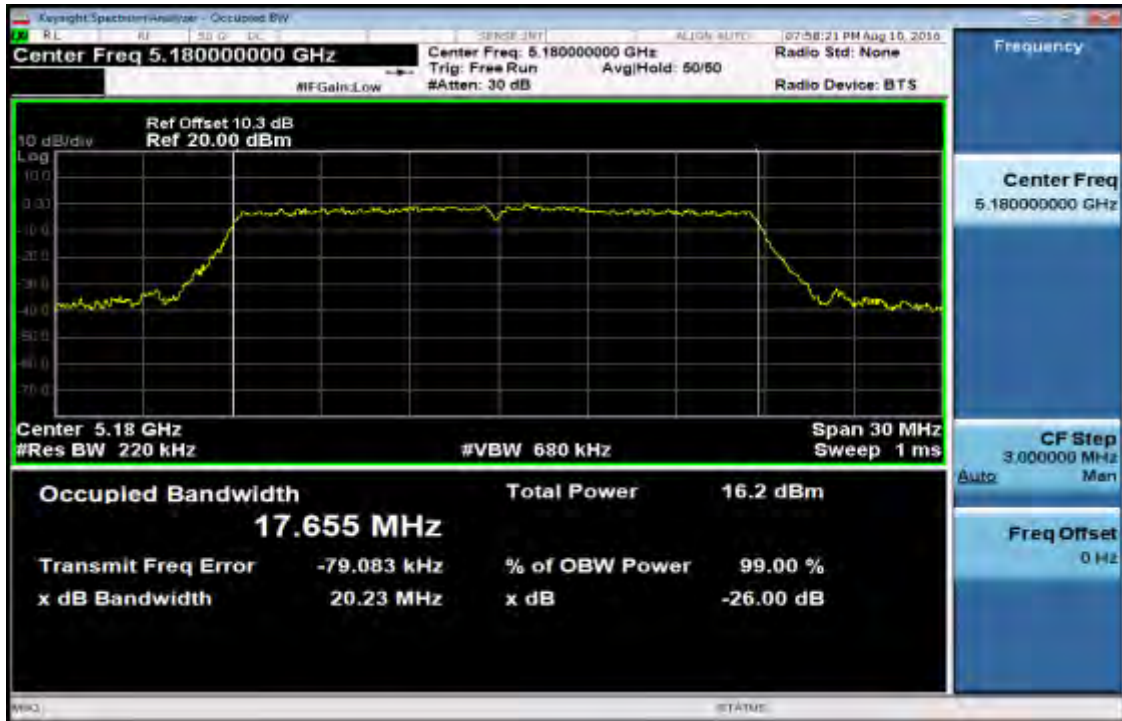
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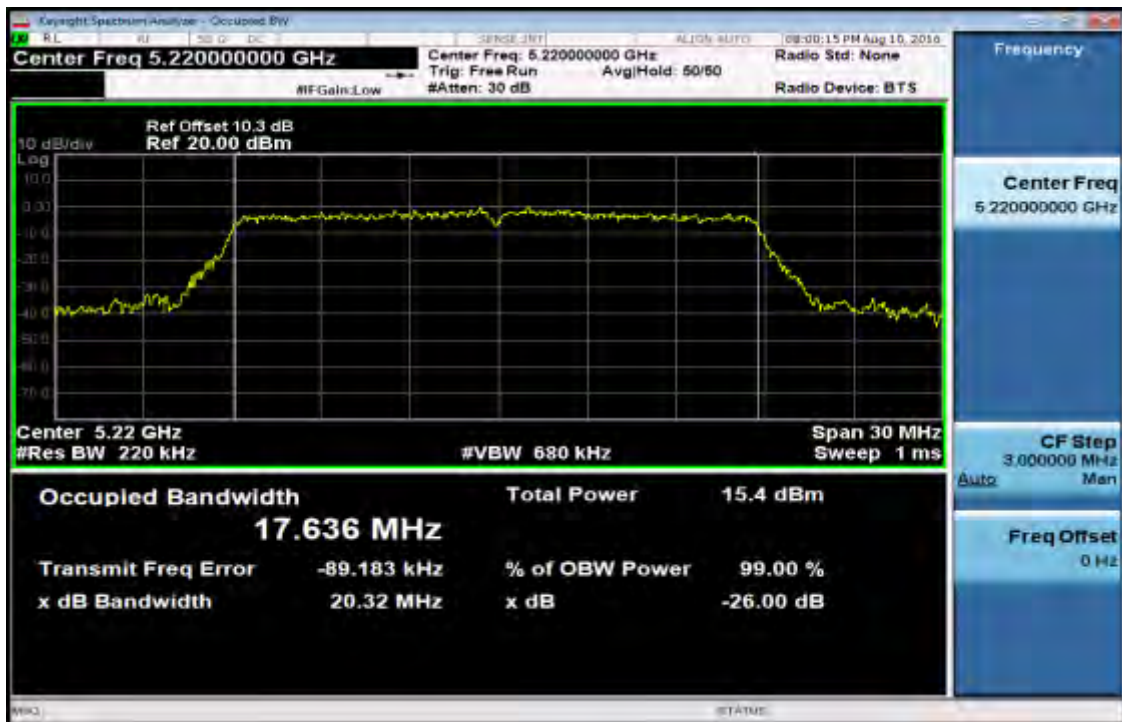
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**802.11n HT20, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5180 MHz)**



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



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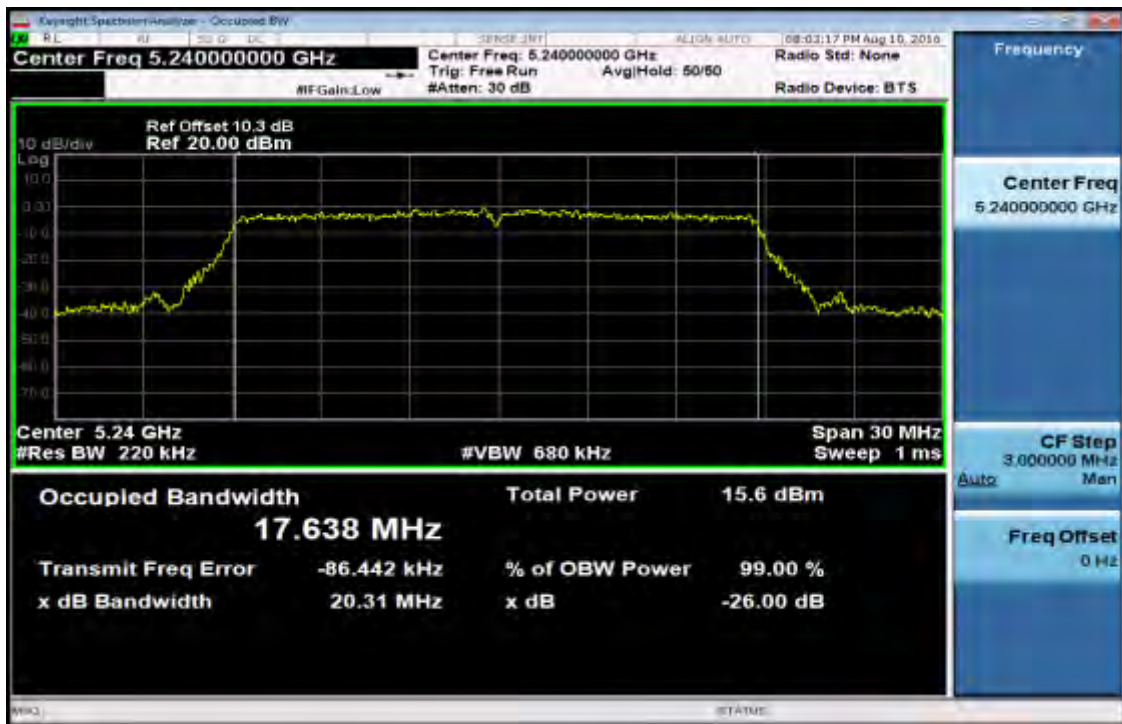
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26dB Band Width Test Data CH-High (5240 MHz)



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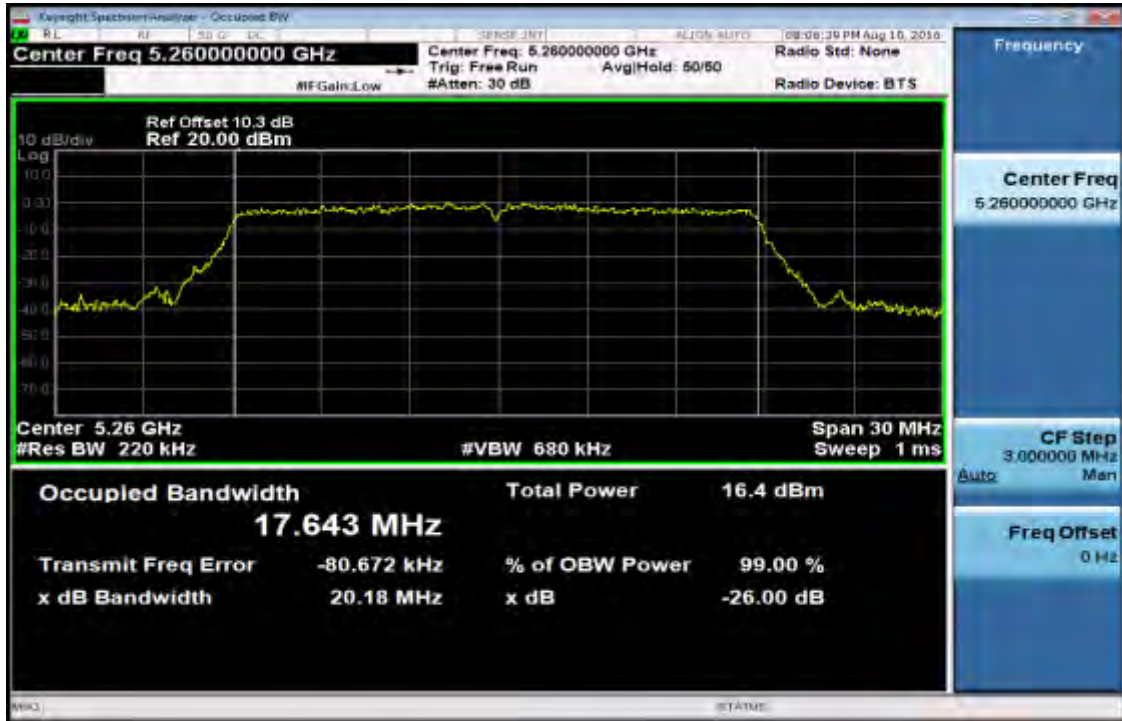
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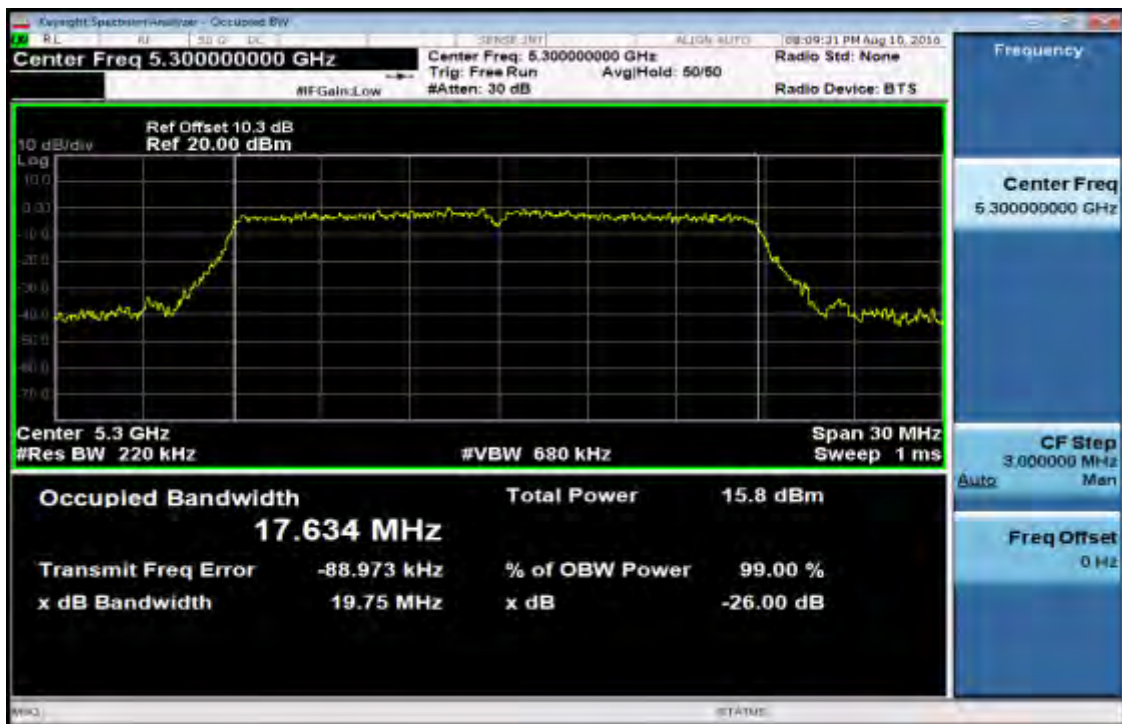
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802.11n HT20, 5250~5350 MHz (Aux1) 26dB Band Width Test Data CH-Low (5260 MHz)



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



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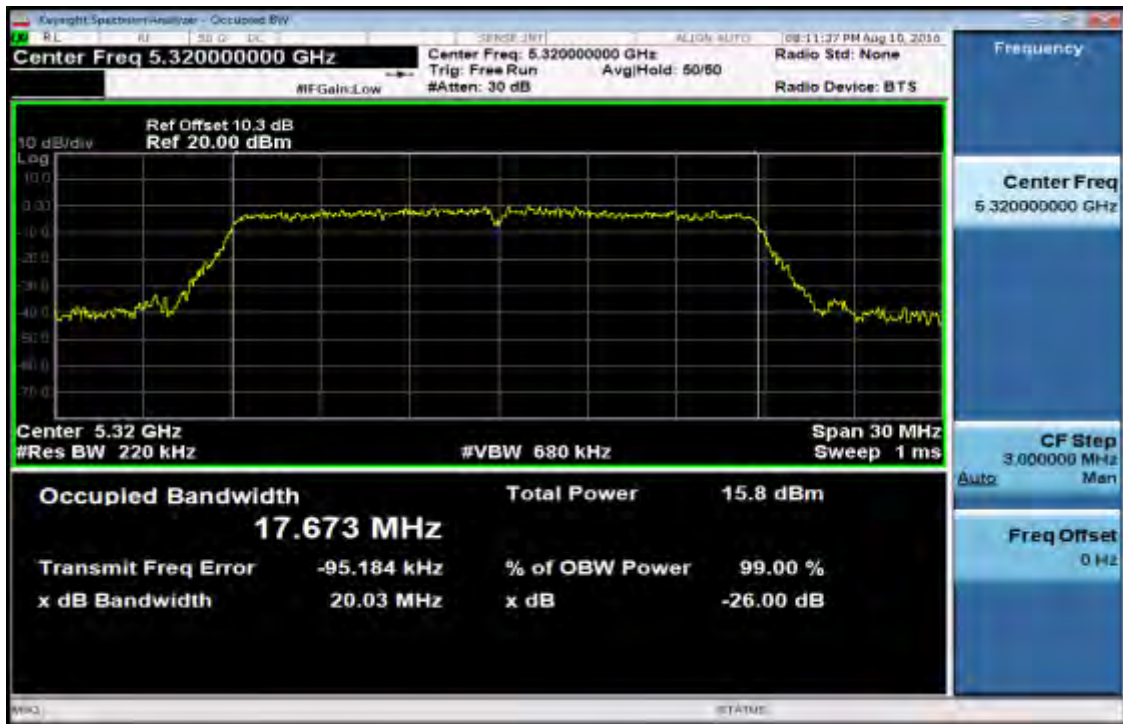
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26dB Band Width Test Data CH-High (5320 MHz)



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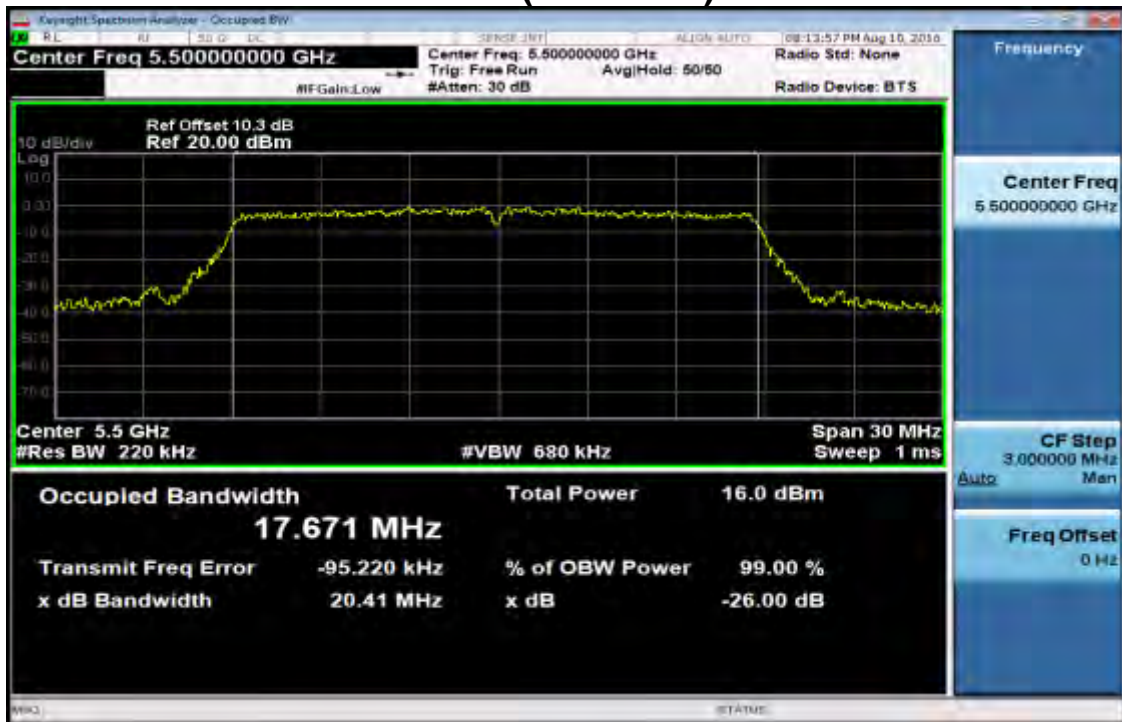
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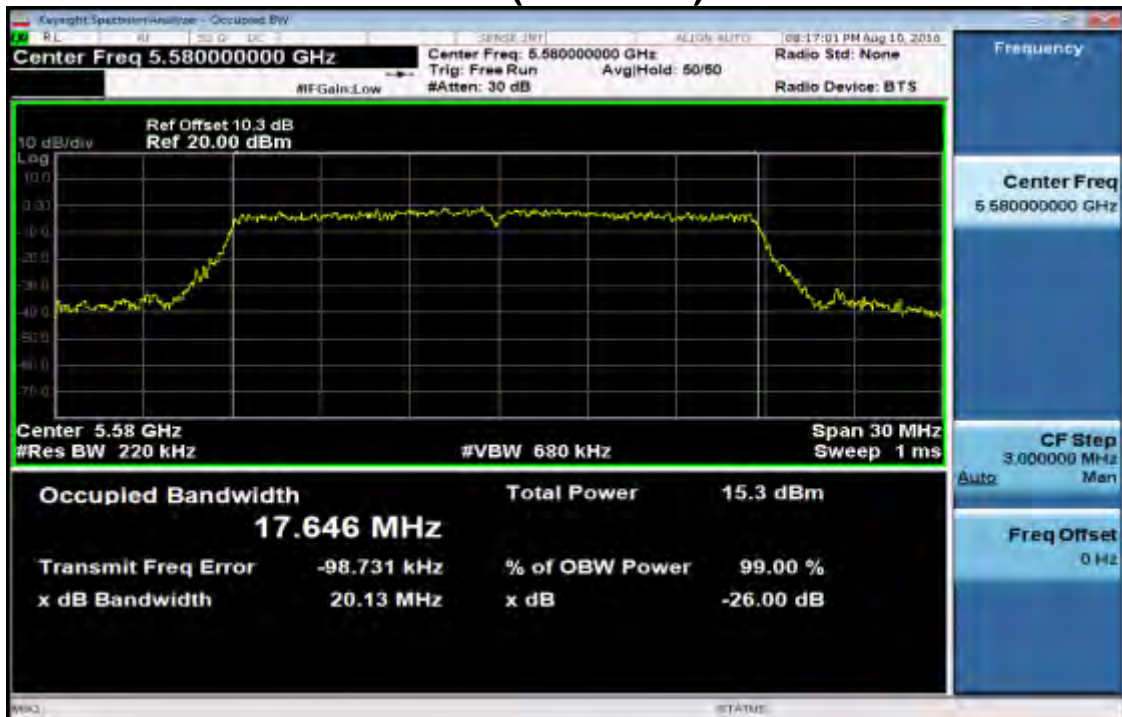
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**802.11n HT20, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5500 MHz)**



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



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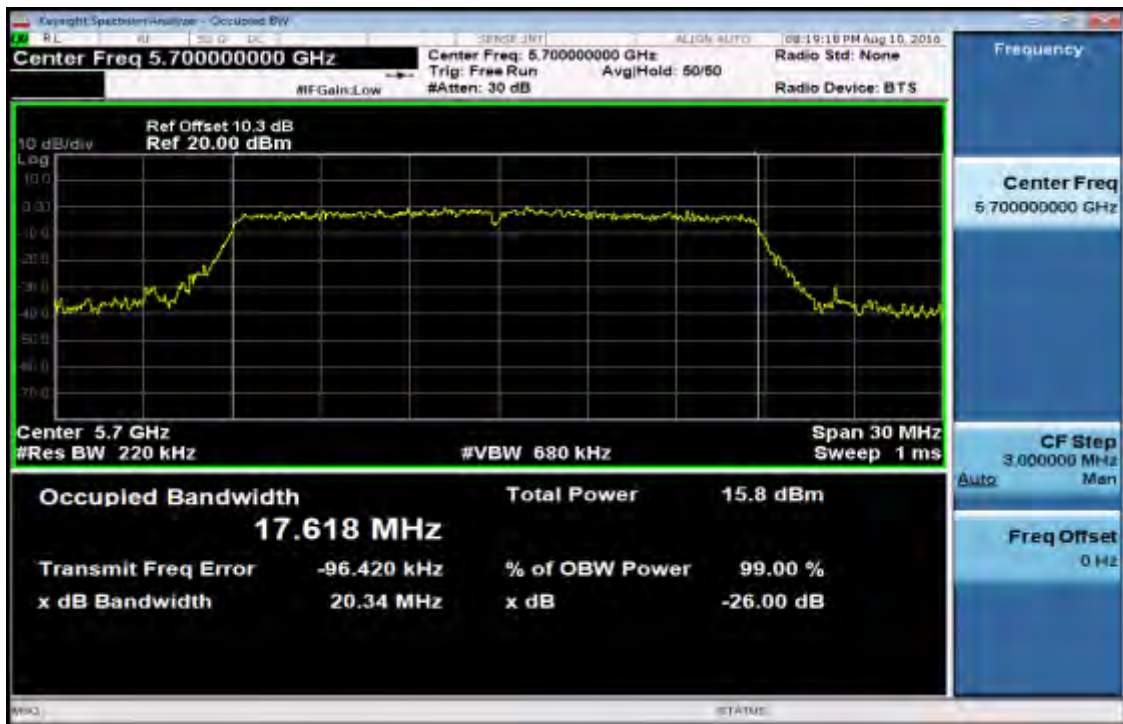
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26dB Band Width Test Data CH-High (5700 MHz)



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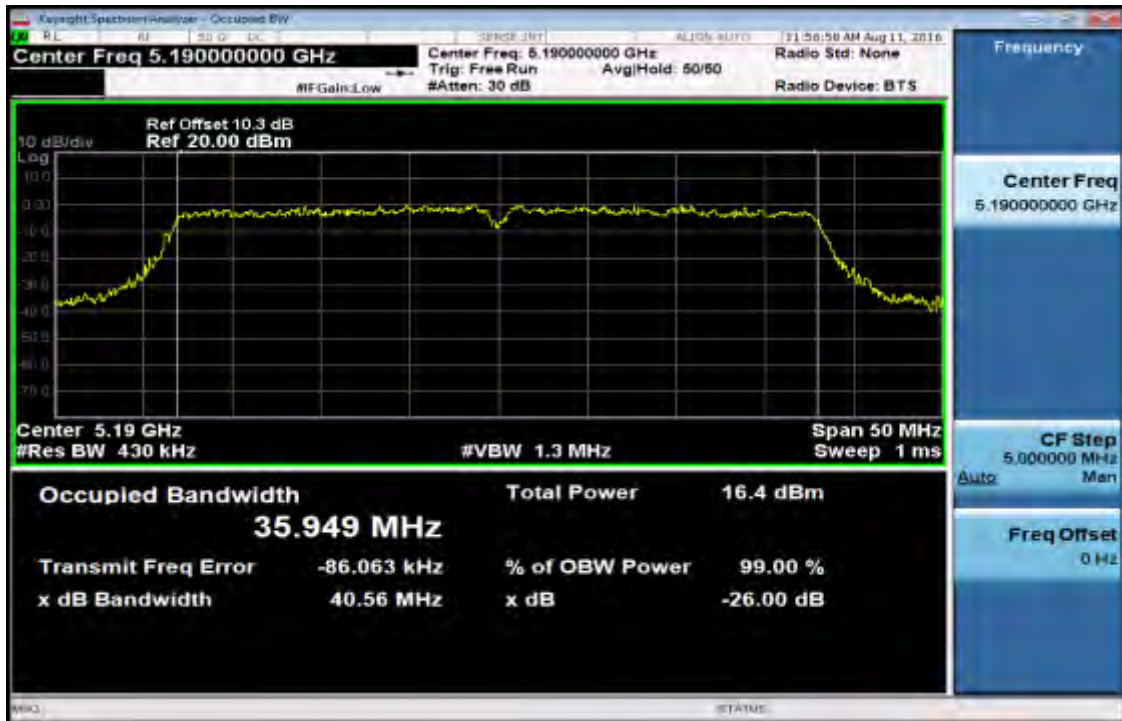
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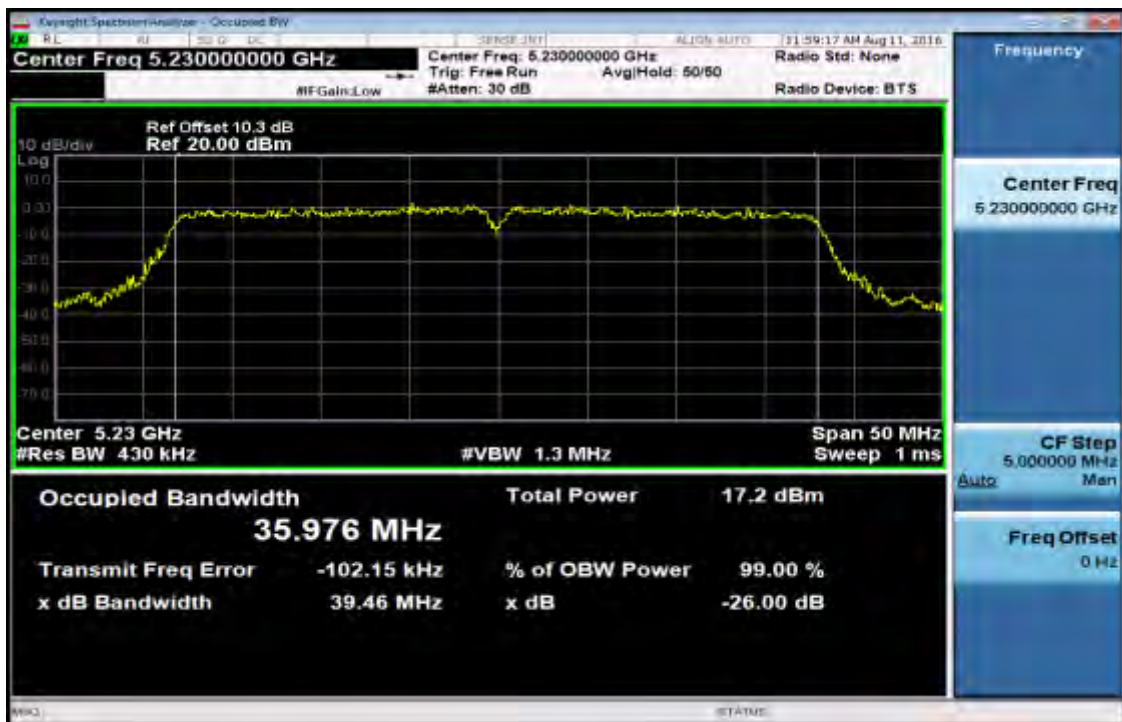
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802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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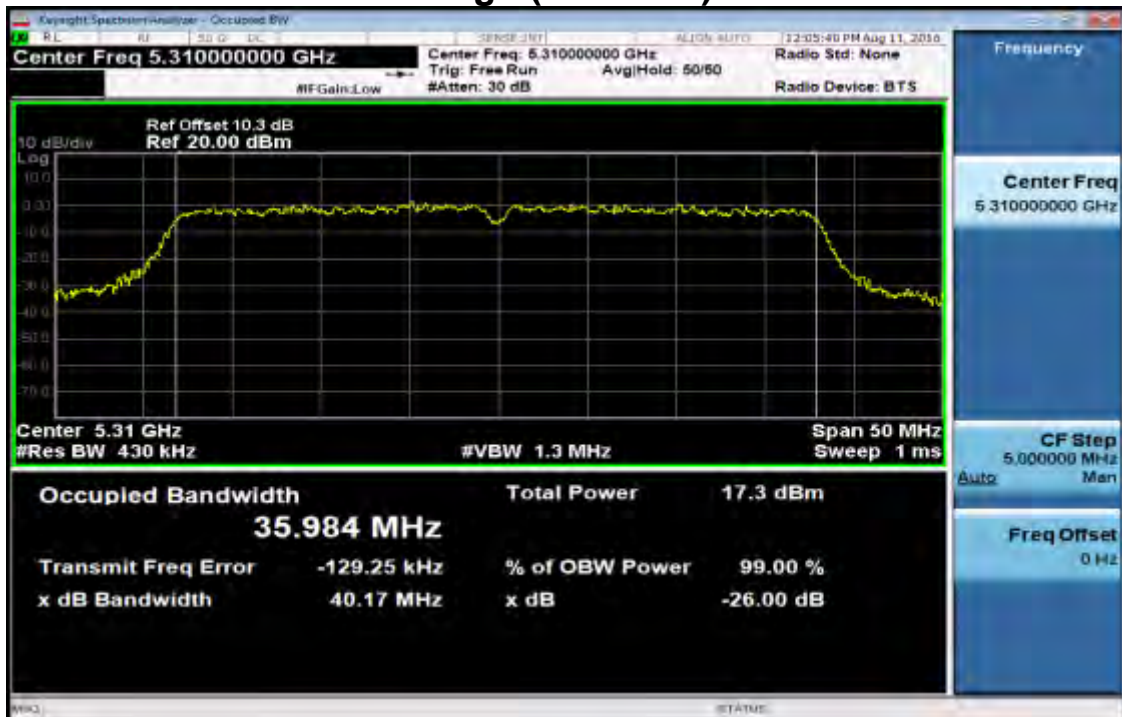
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**802.11n HT40, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5270 MHz)**



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



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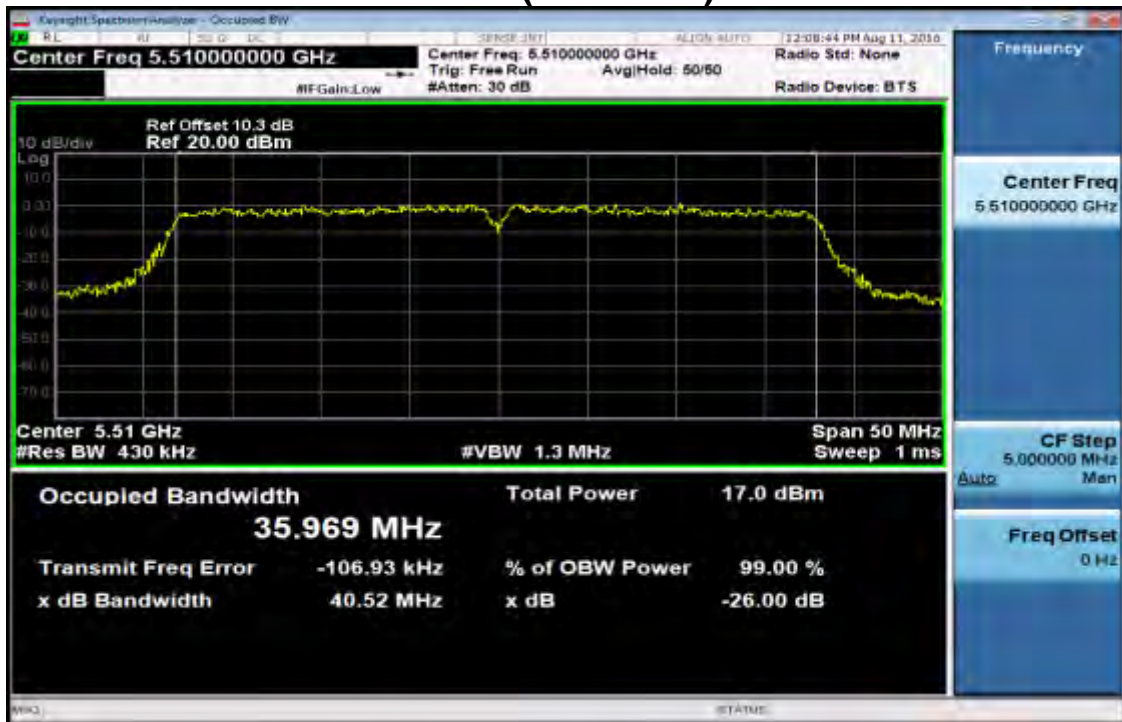
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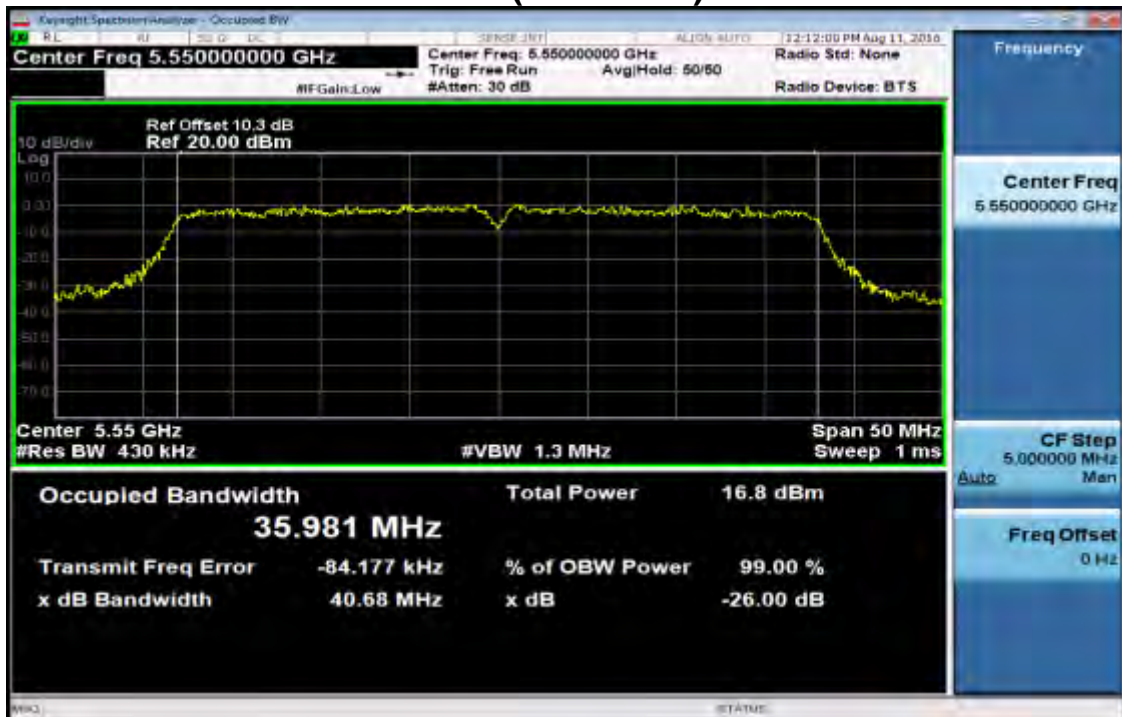
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**802.11n HT40, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5510 MHz)**



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



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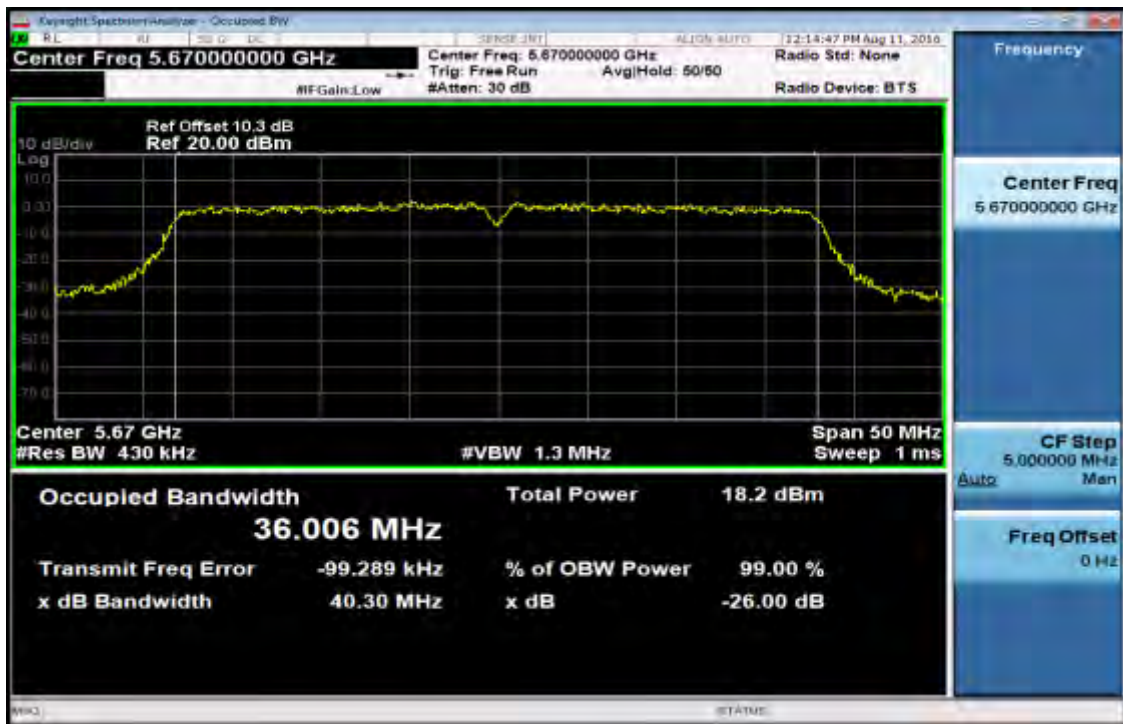
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26dB Band Width Test Data CH-High (5670 MHz)



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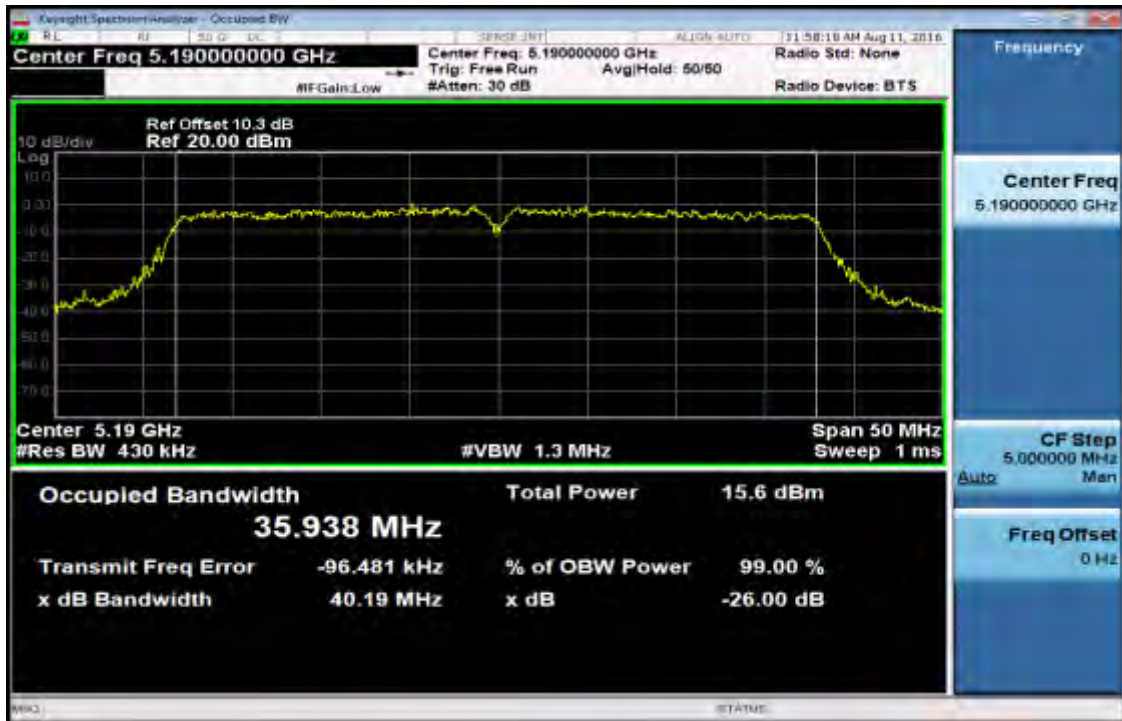
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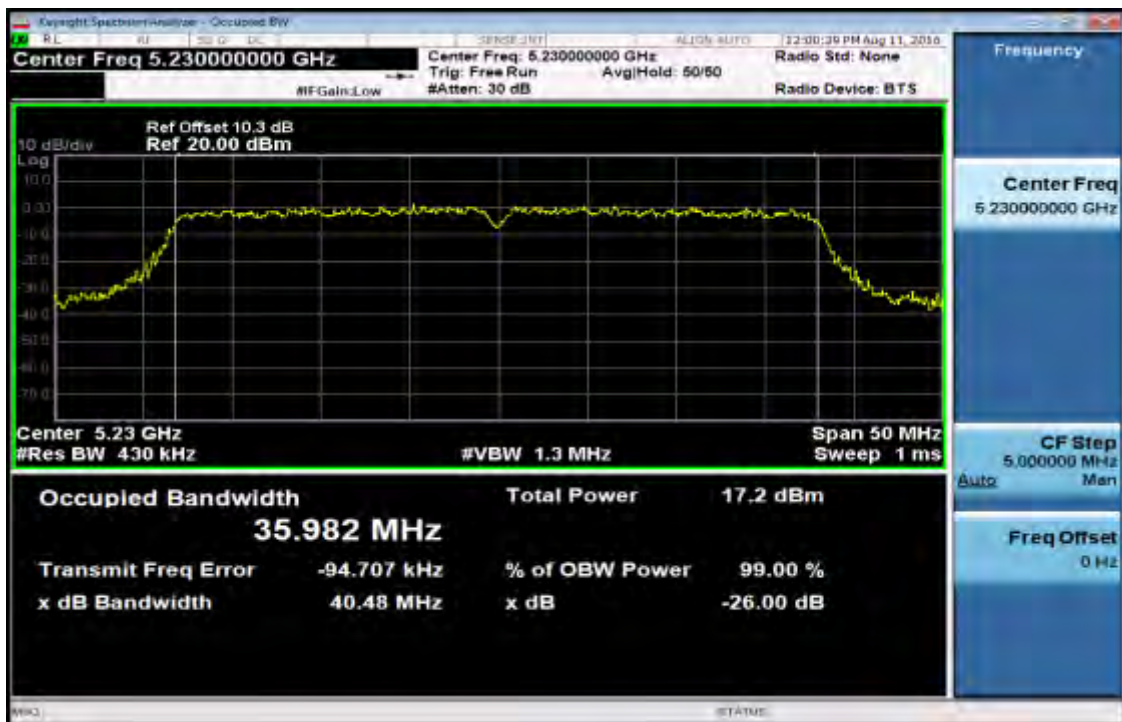
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**802.11n HT40, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5190 MHz)**



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



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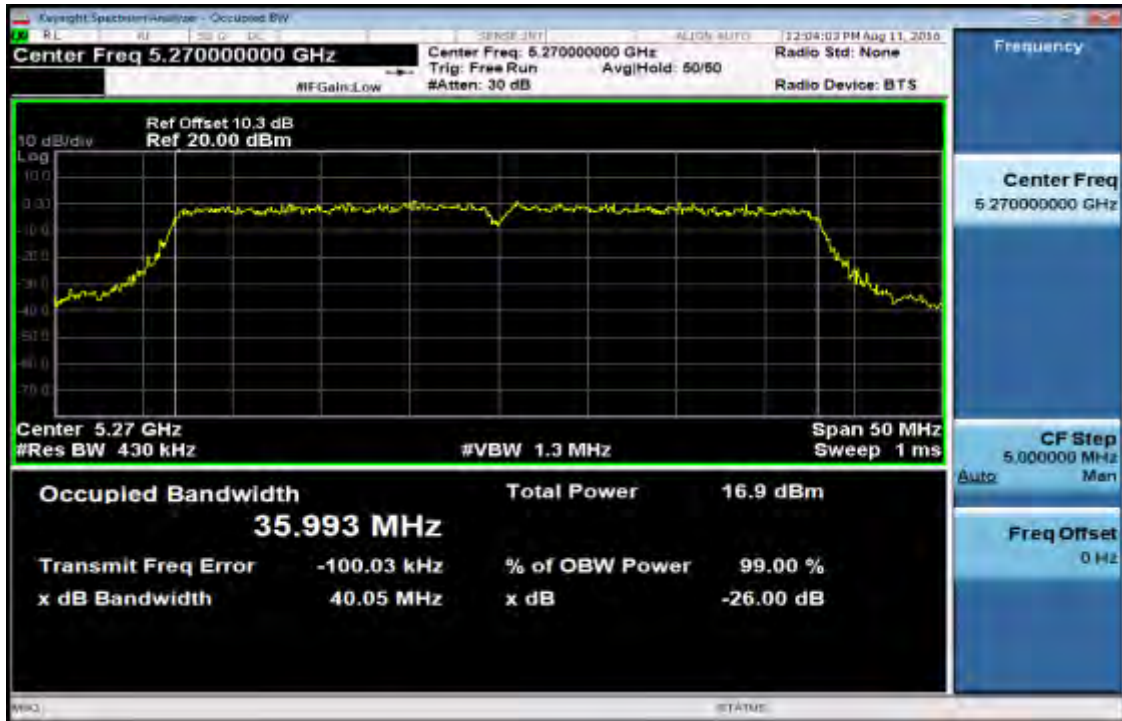
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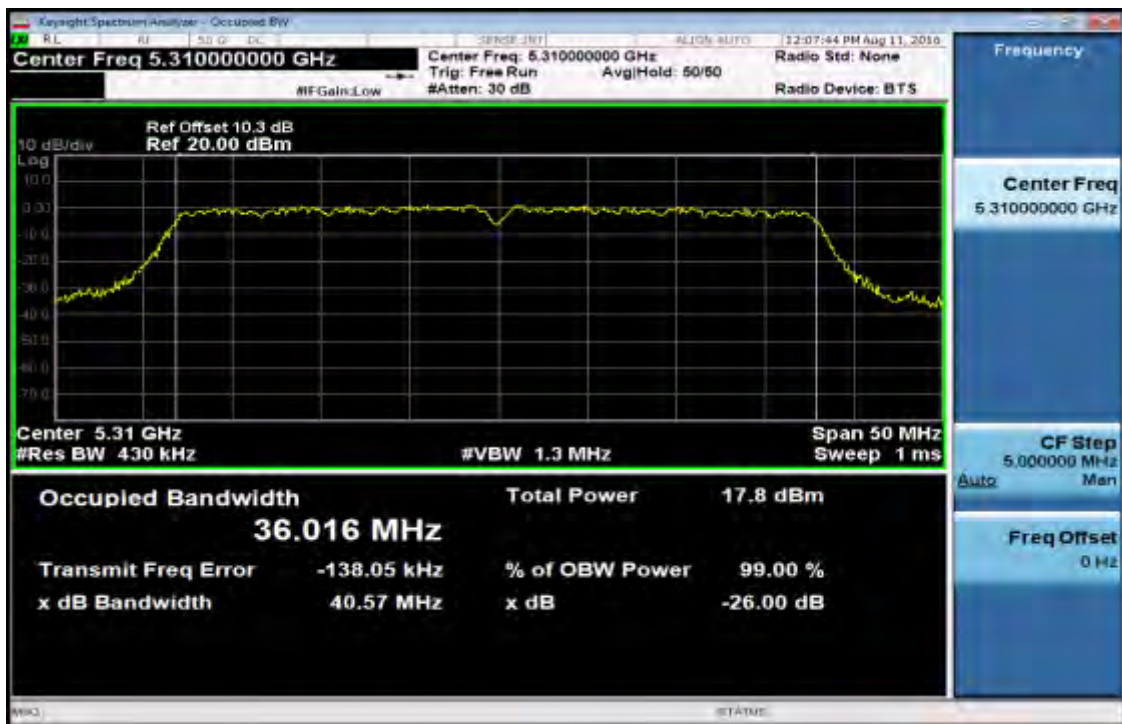
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**802.11n HT40, 5250~5350 MHz (Aux1)
26dB Band Width Test Data CH-Low (5270 MHz)**



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



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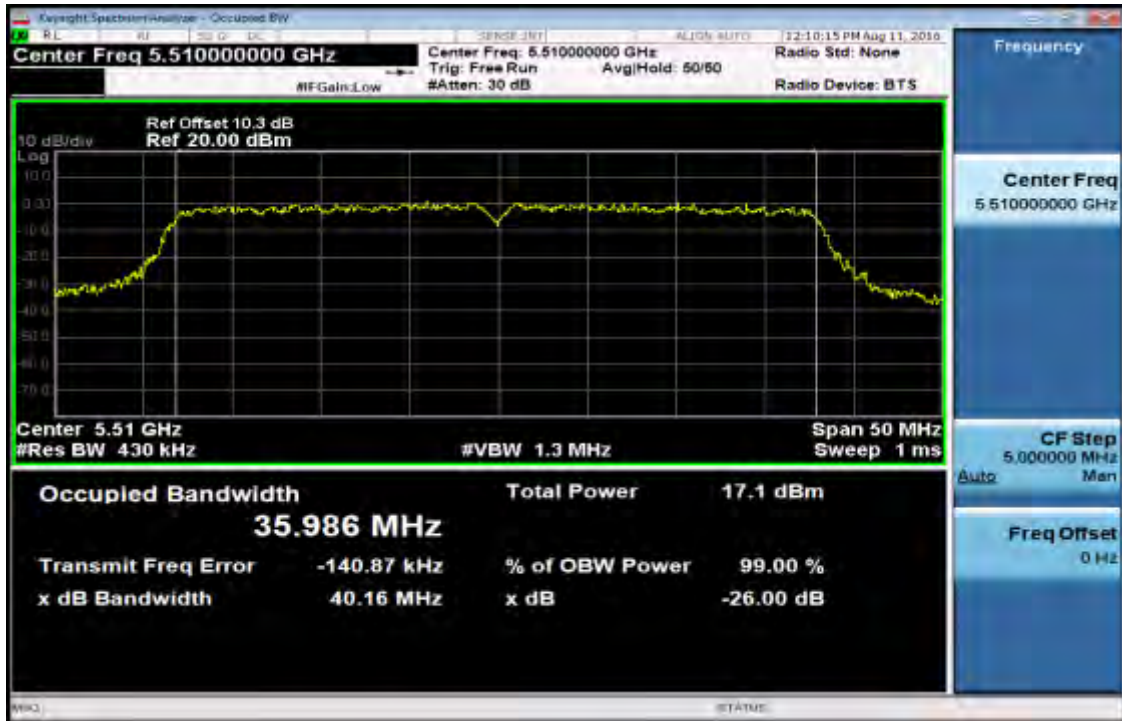
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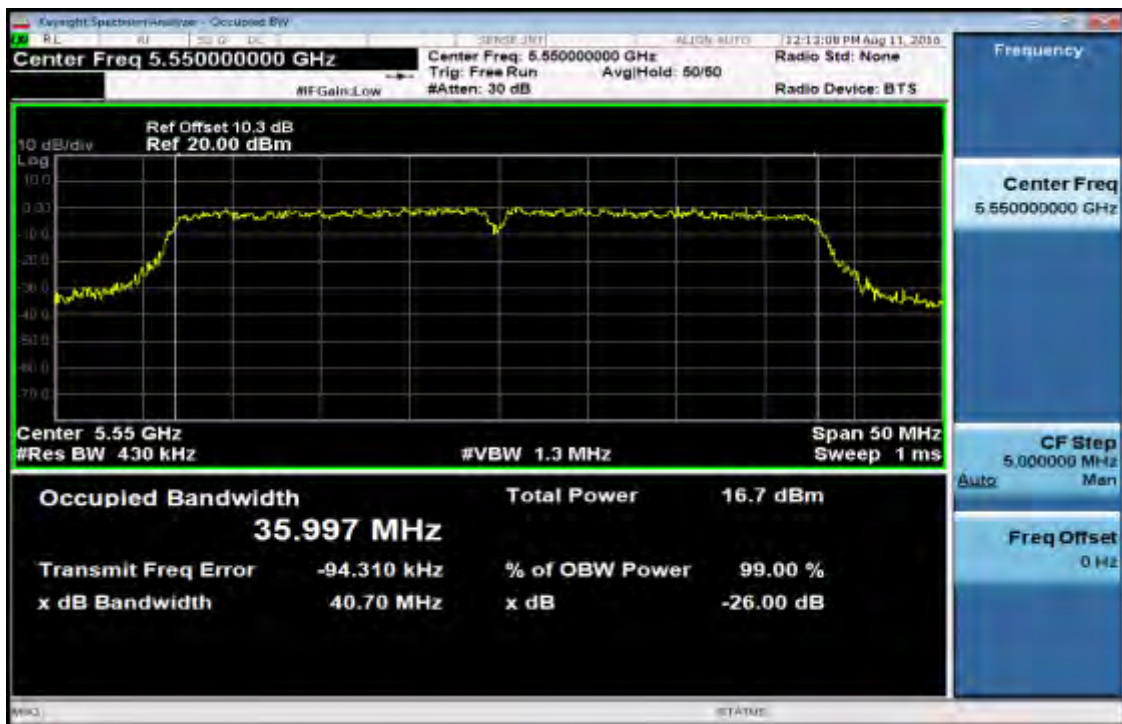
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**802.11n HT40, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5510 MHz)**



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

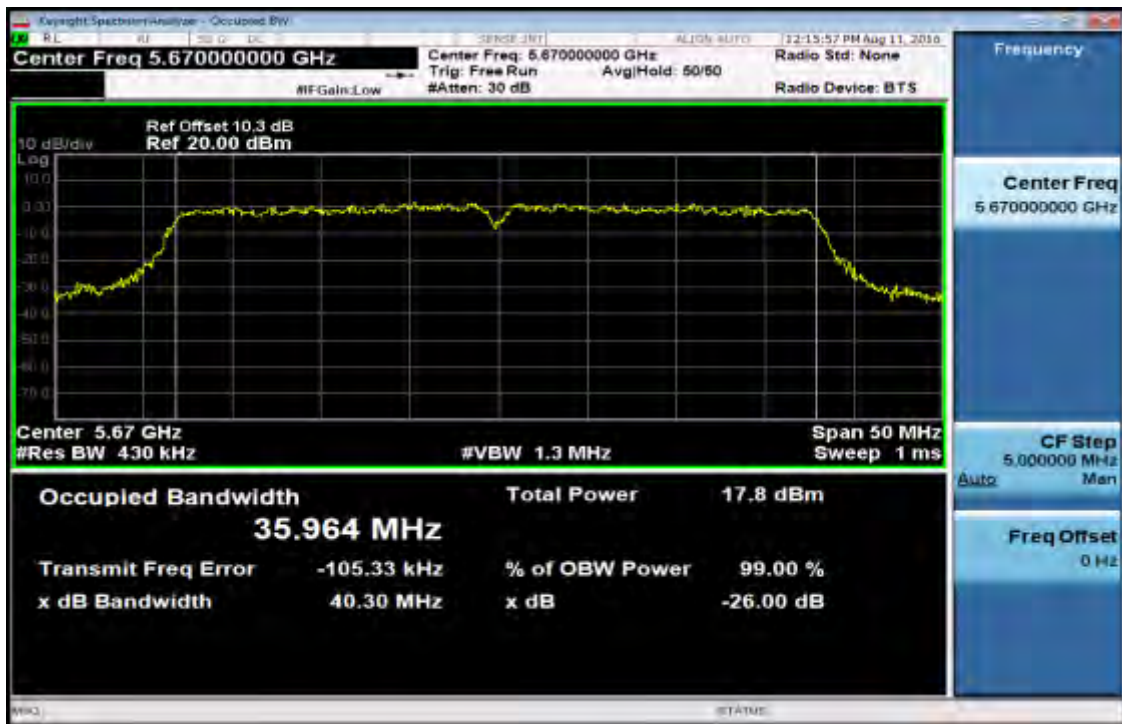


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26dB Band Width Test Data CH-High (5670 MHz)



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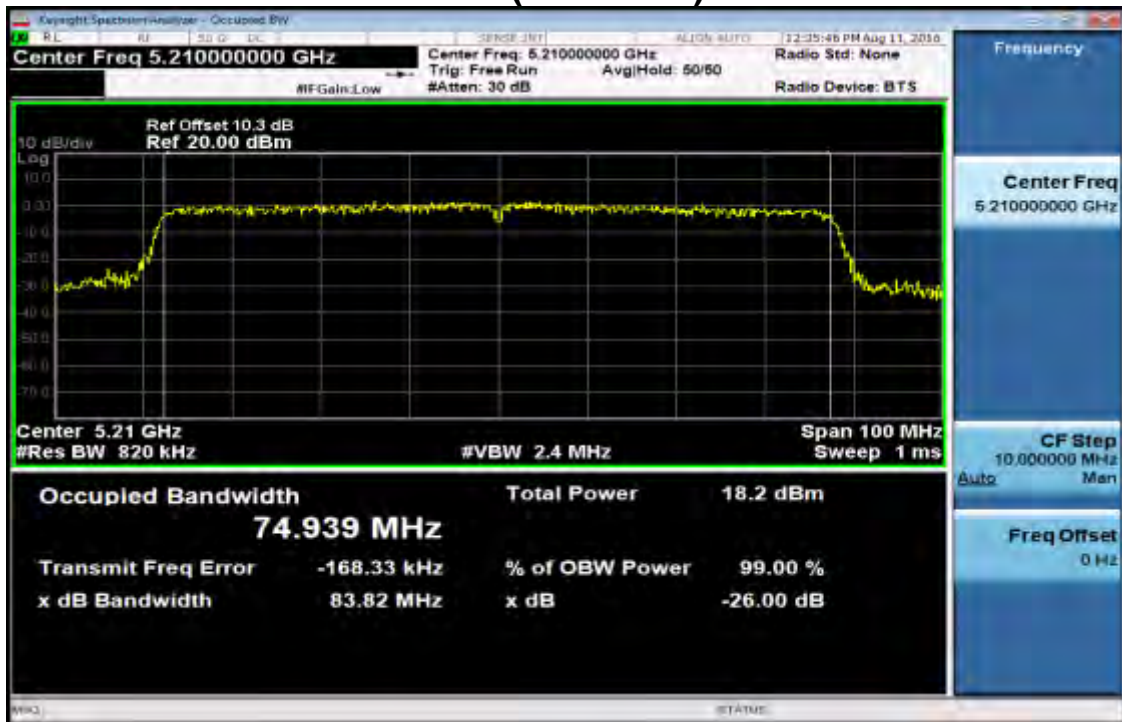
t (886-2) 2299-3279

f (886-2) 2298-0488

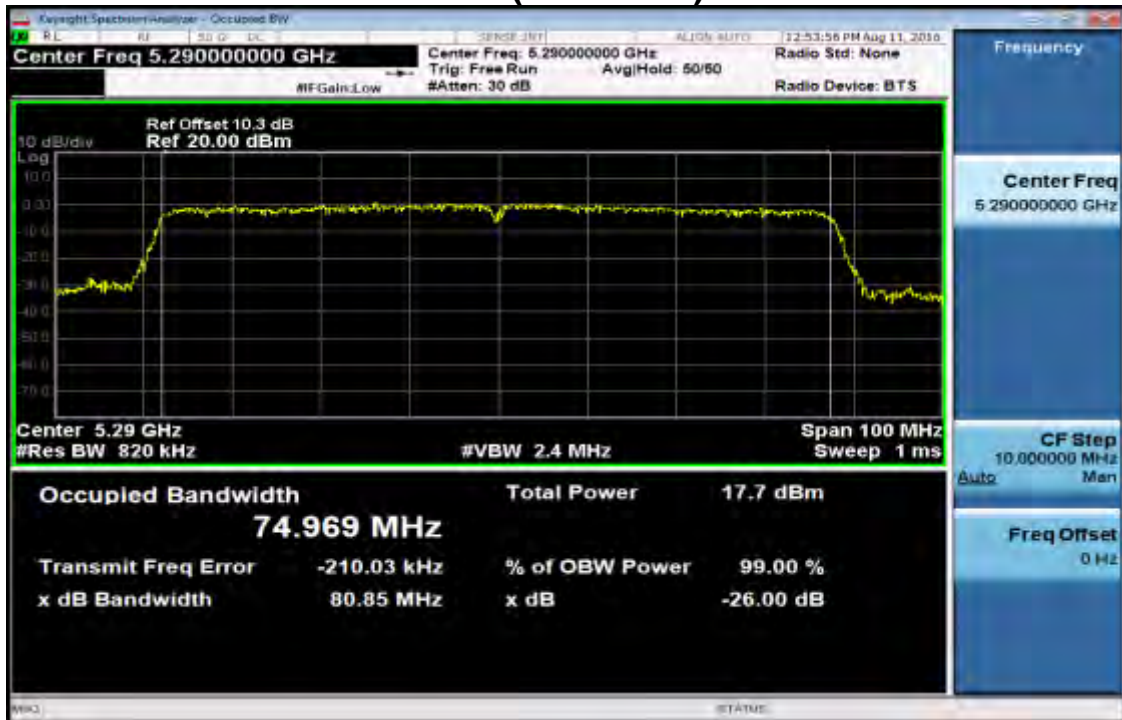
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**802.11ac VHT80, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Mid (5210 MHz)**



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



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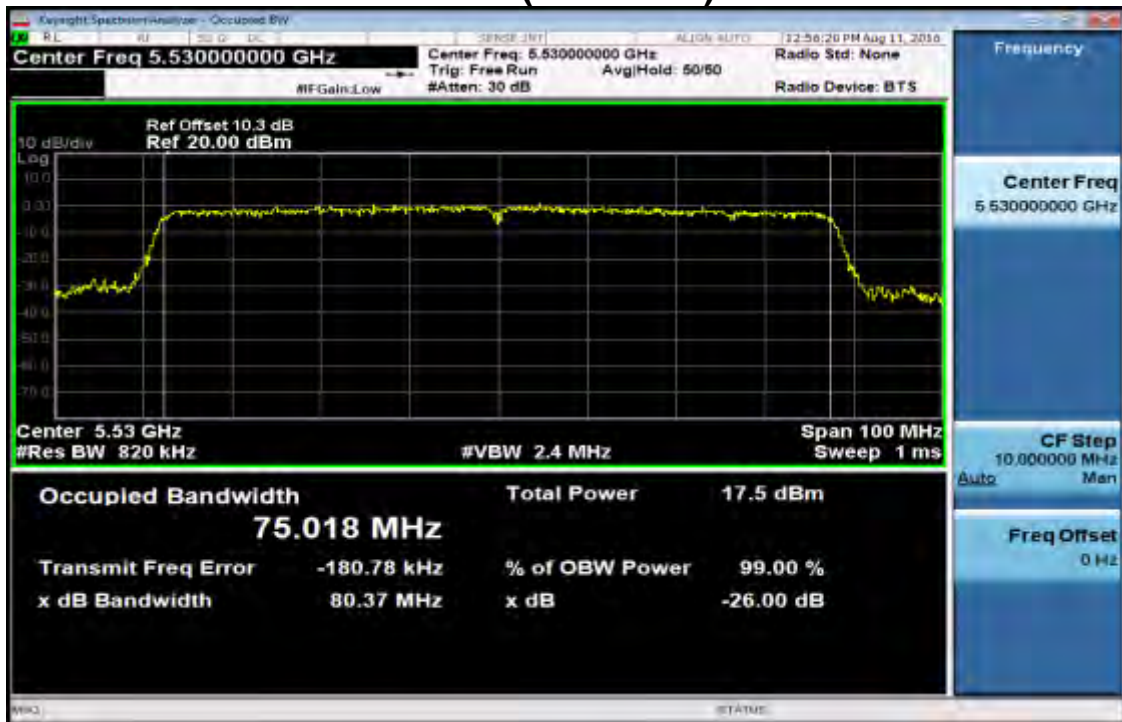
t (886-2) 2299-3279

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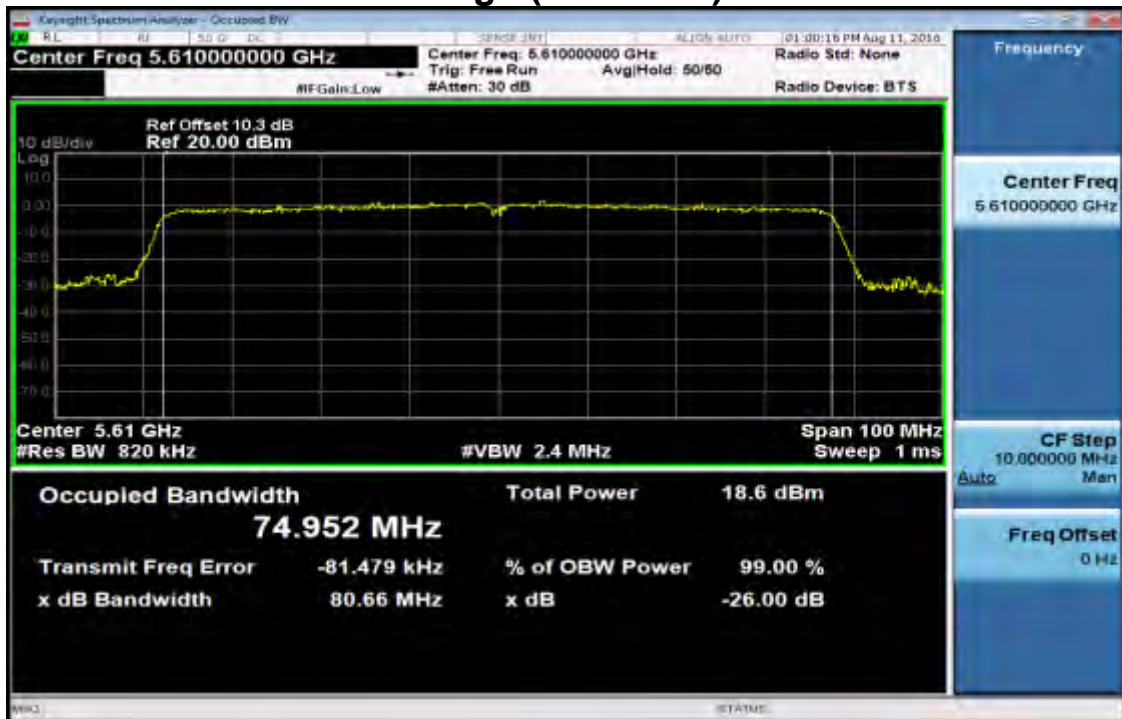
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**802.11ac VHT80, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5530 MHz)**



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



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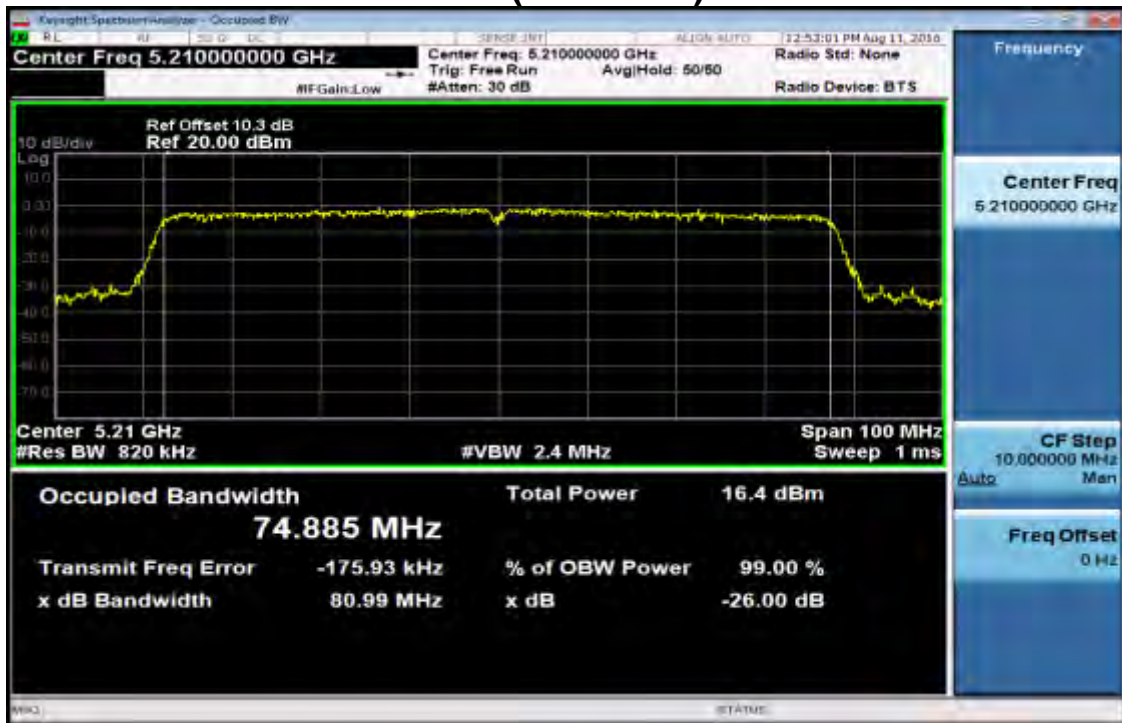
t (886-2) 2299-3279

f (886-2) 2298-0488

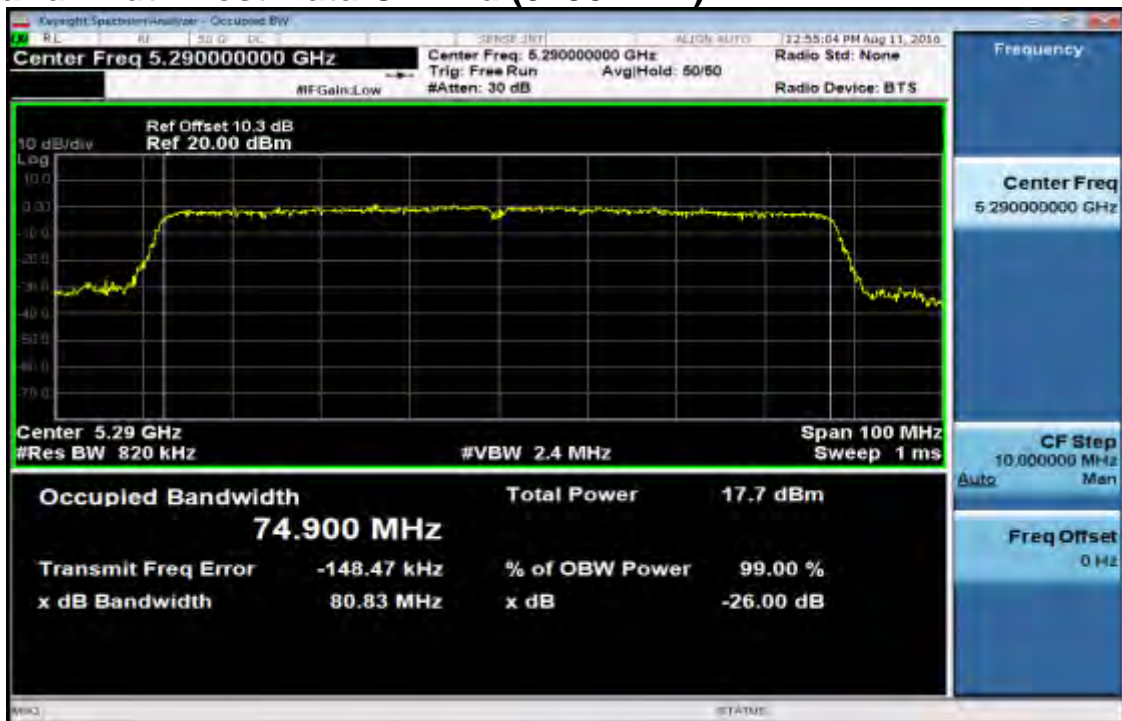
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**802.11ac VHT80, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Mid (5210 MHz)**



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



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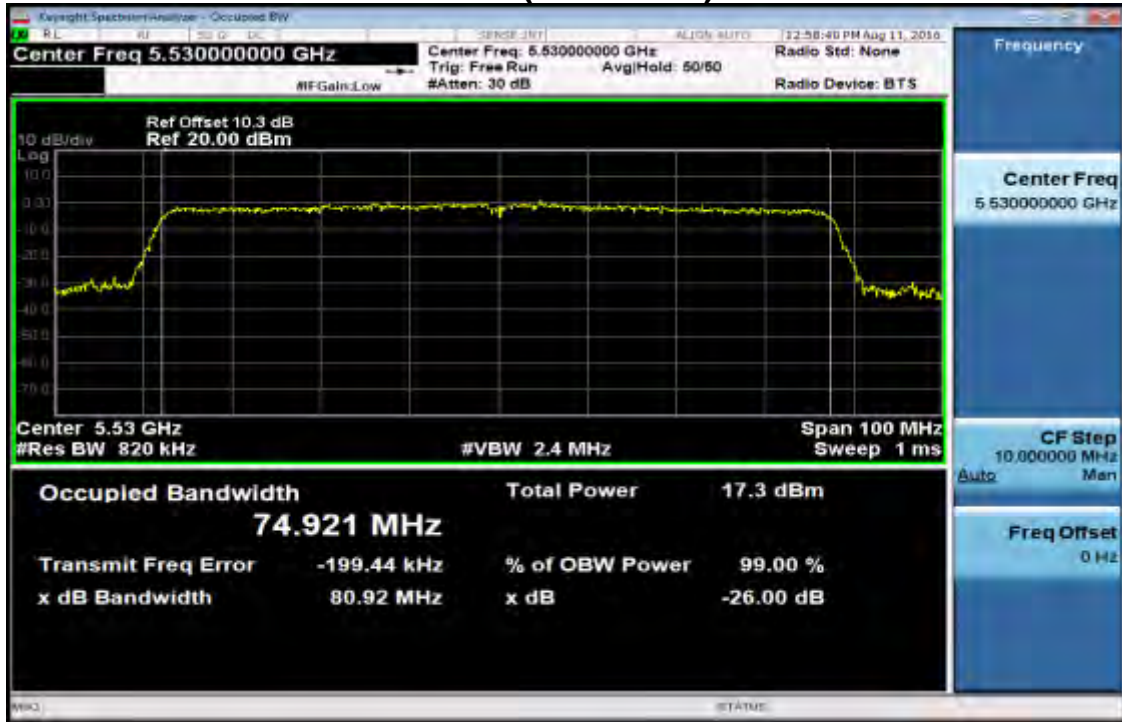
t (886-2) 2299-3279

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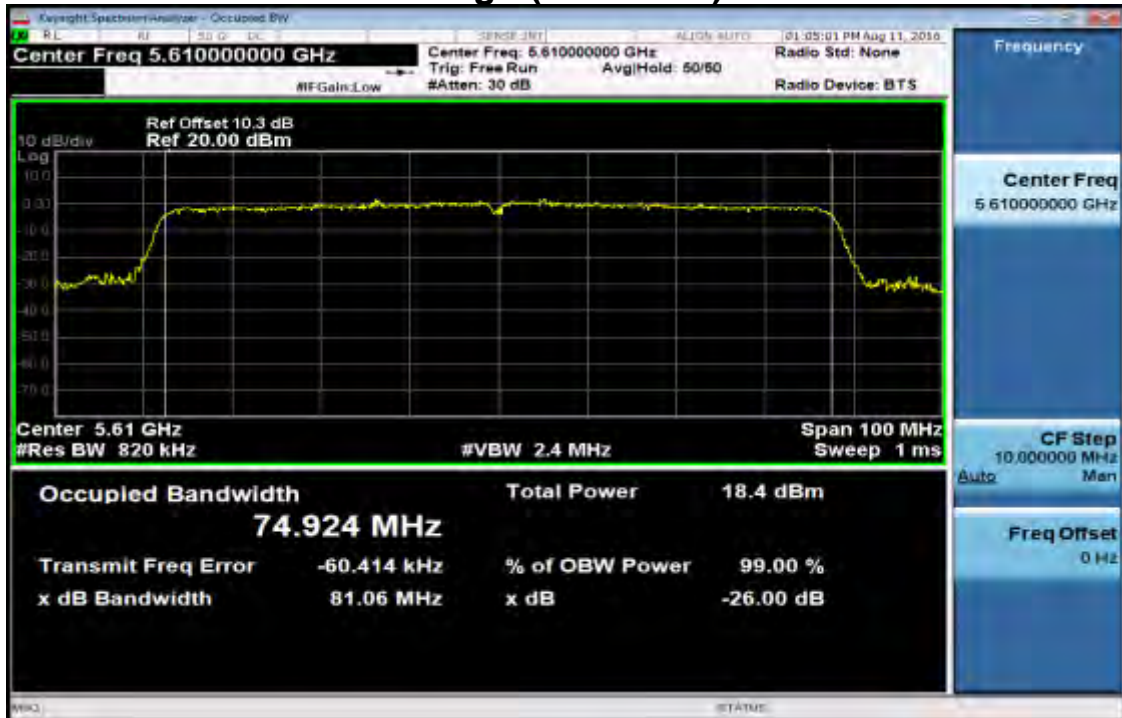
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**802.11ac VHT80, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5530 MHz)**



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



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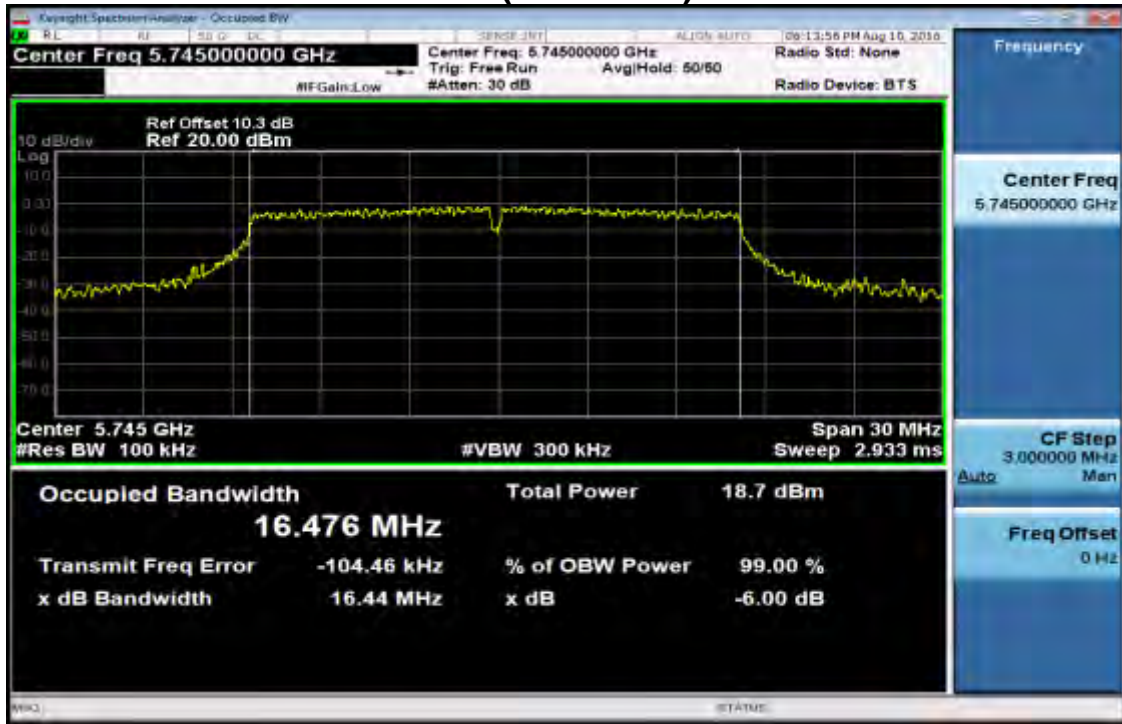
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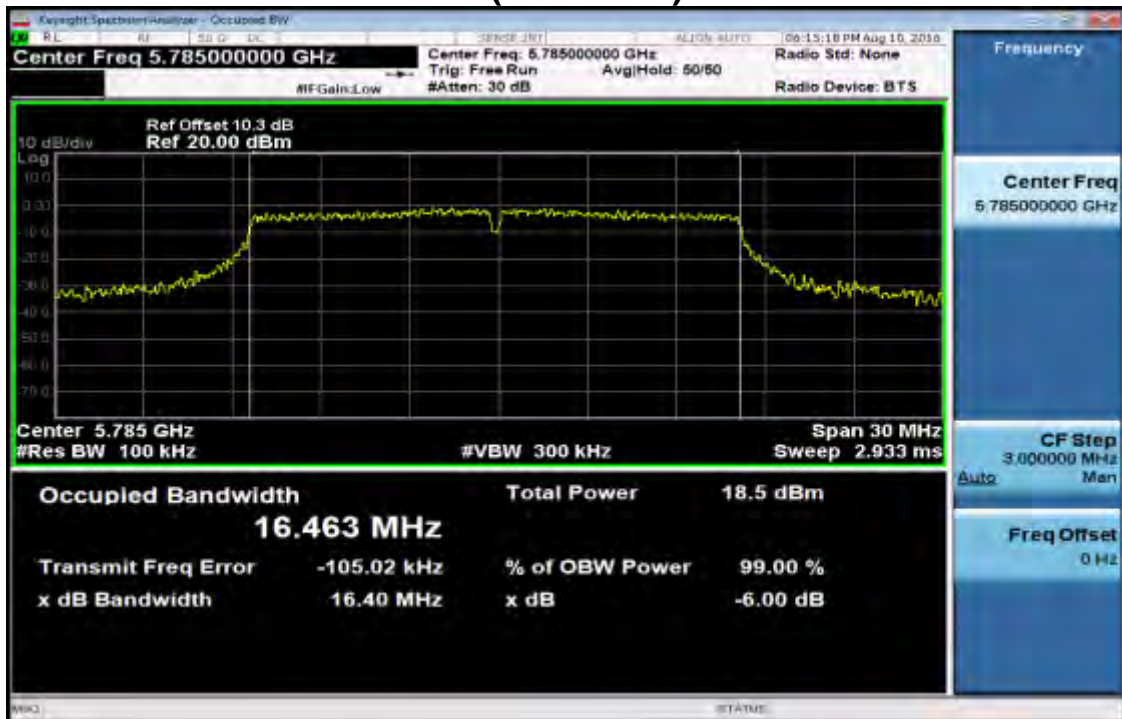
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6dB Band Width measure with Peak detector for FCC
802.11a, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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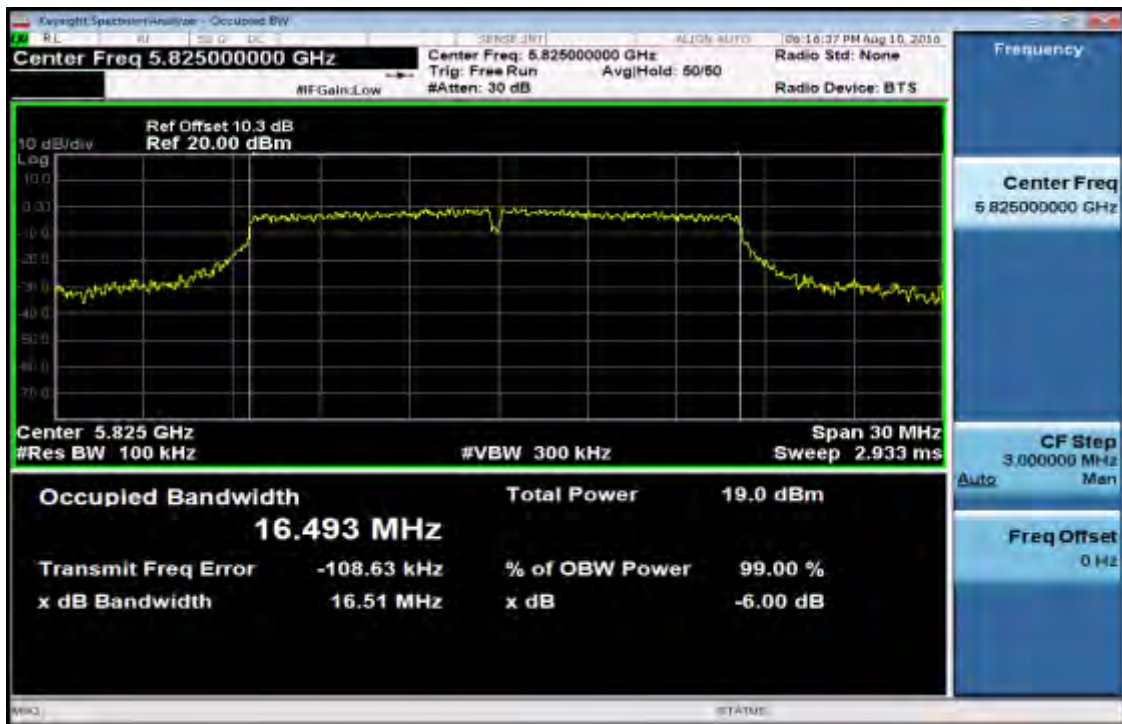
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6dB Band Width Test Data CH-High (5825 MHz)



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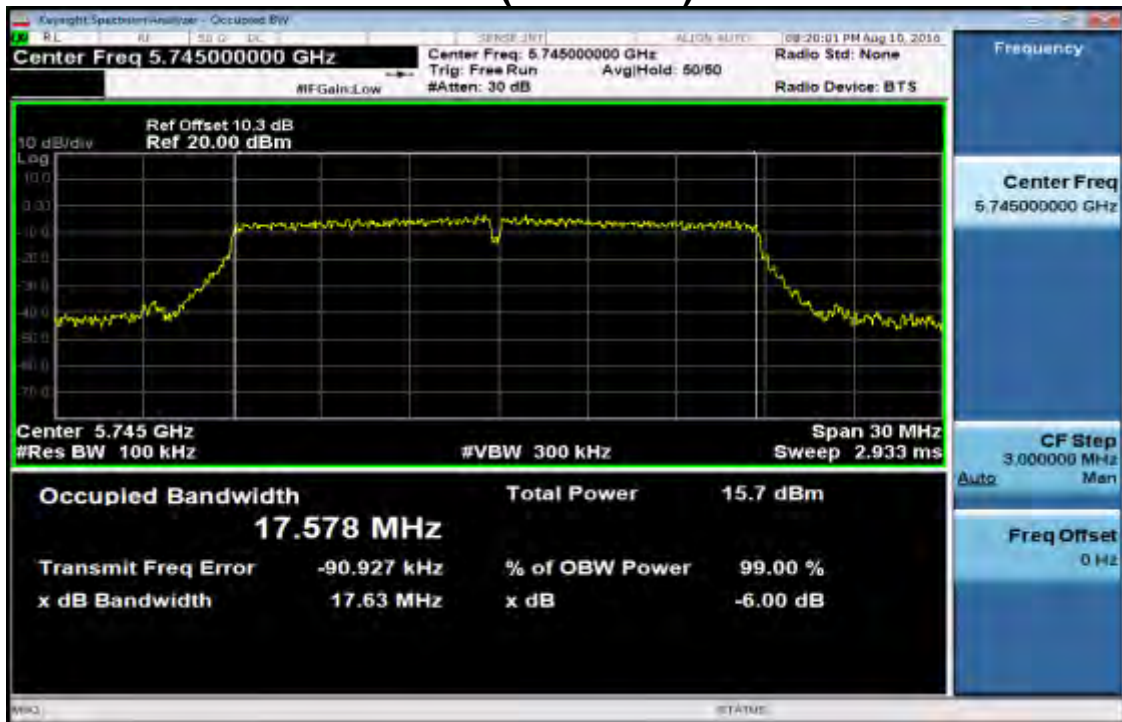
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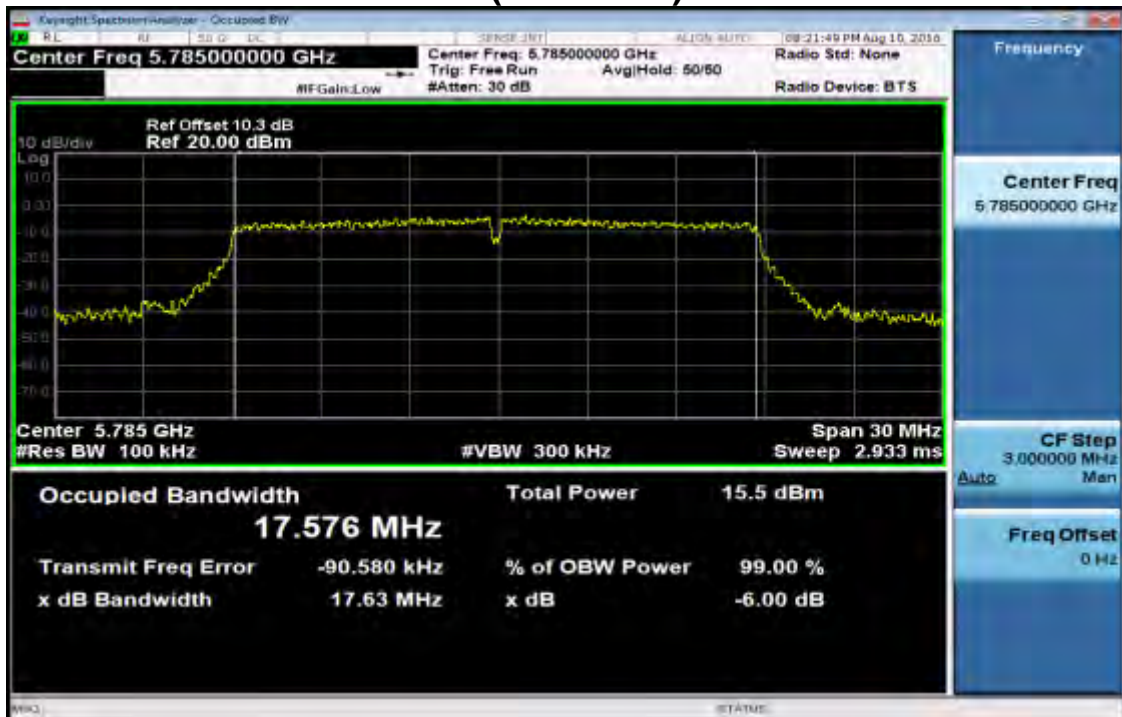
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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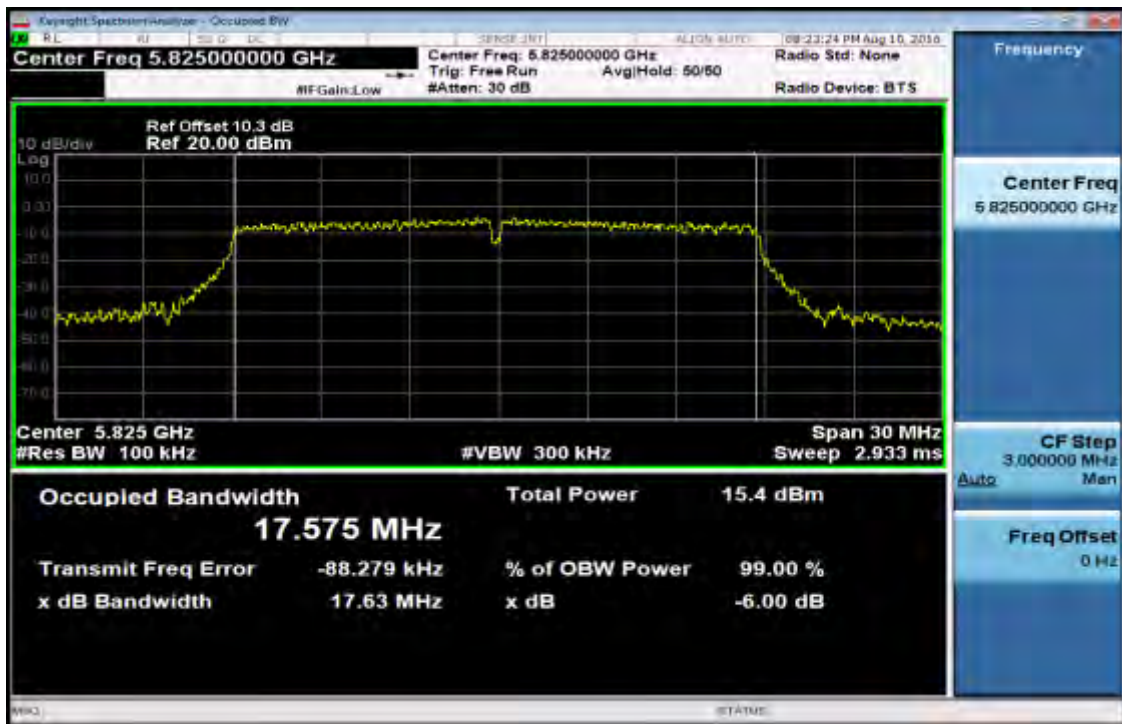
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6dB Band Width Test Data CH-High (5825 MHz)



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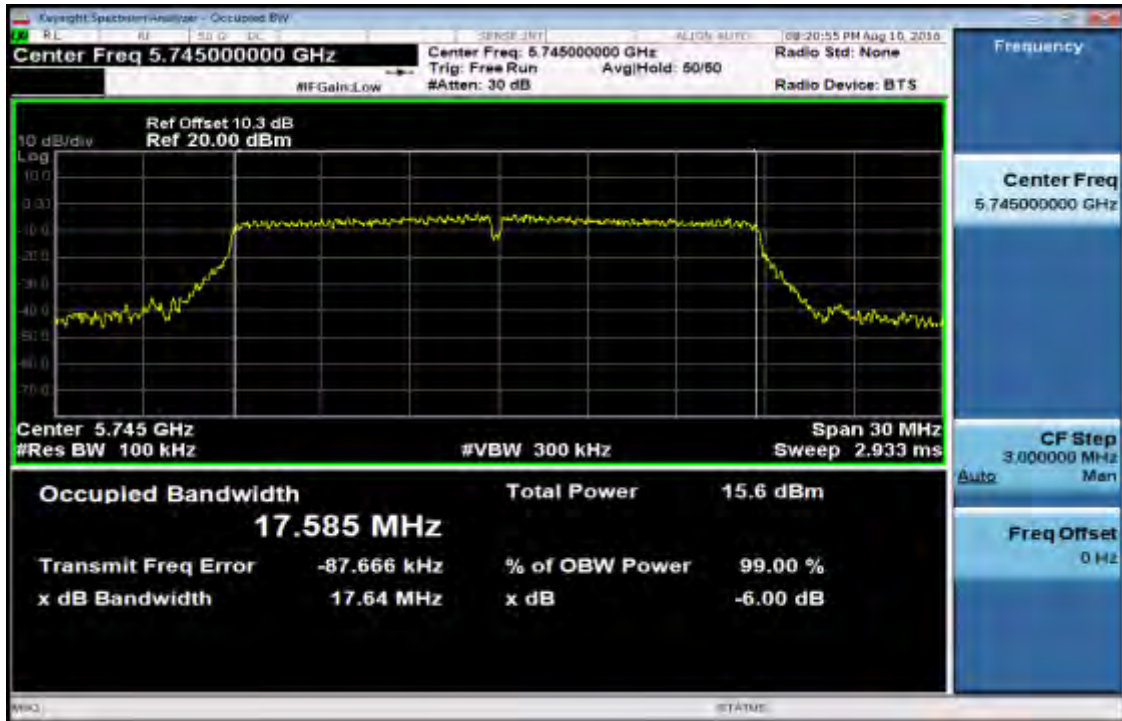
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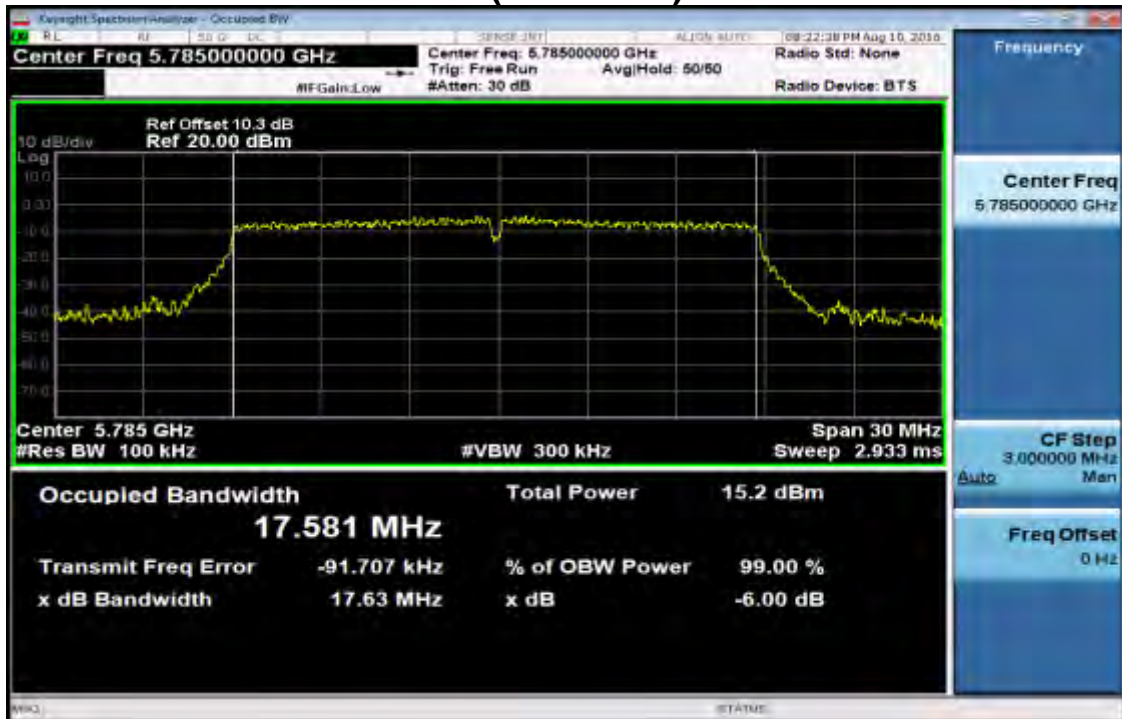
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802.11n_HT20, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5745 MHz)



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

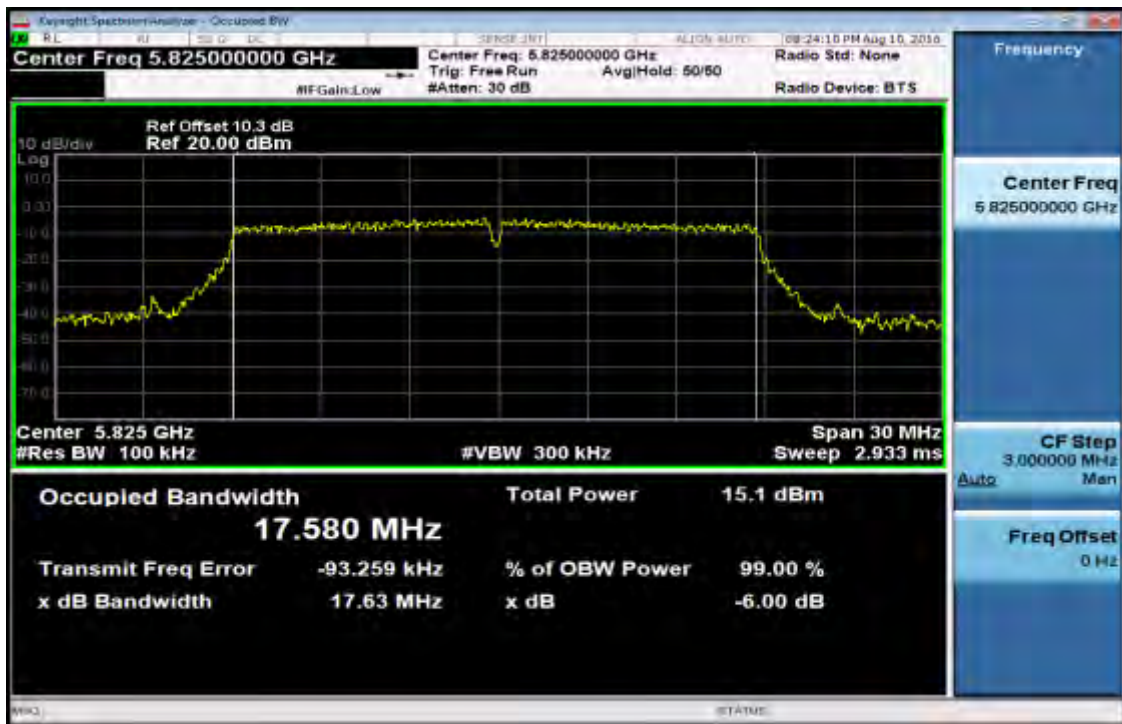


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6dB Band Width Test Data CH-High (5825 MHz)



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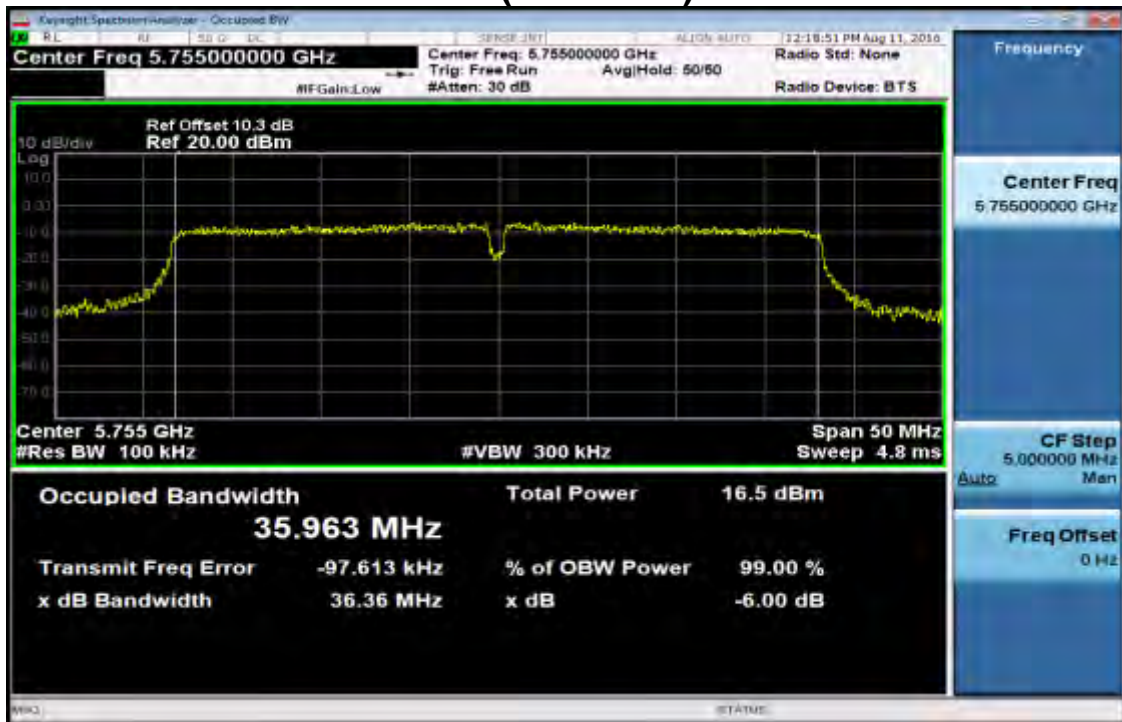
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f (886-2) 2298-0488

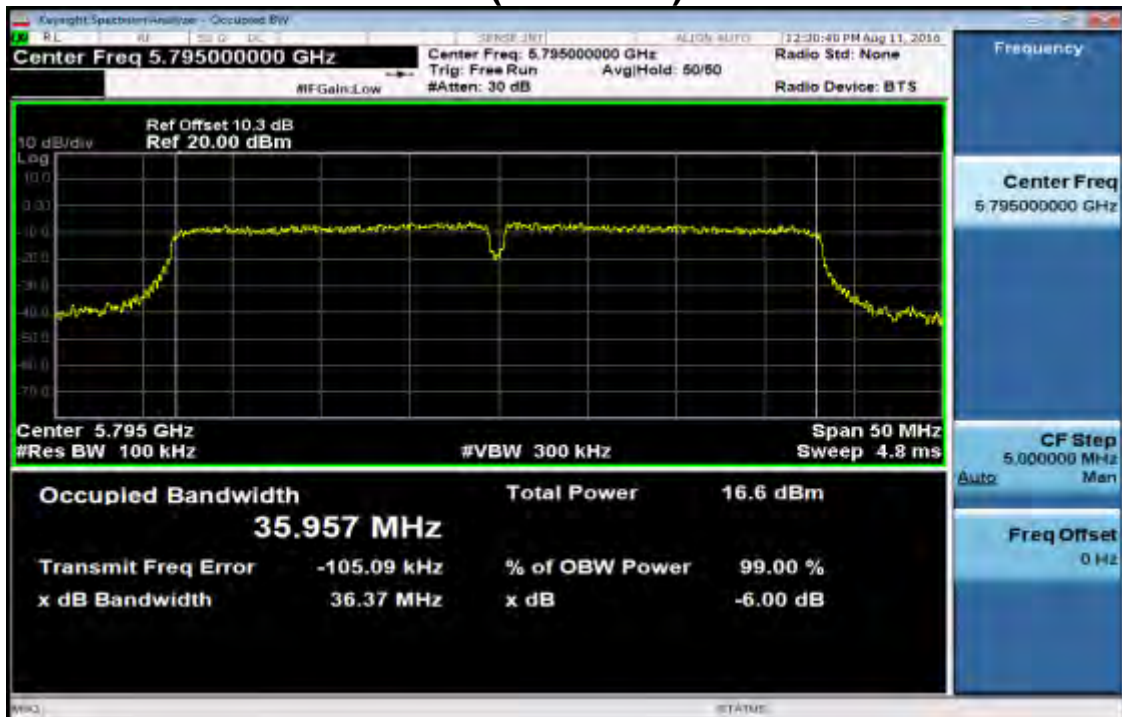
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802.11n_HT40, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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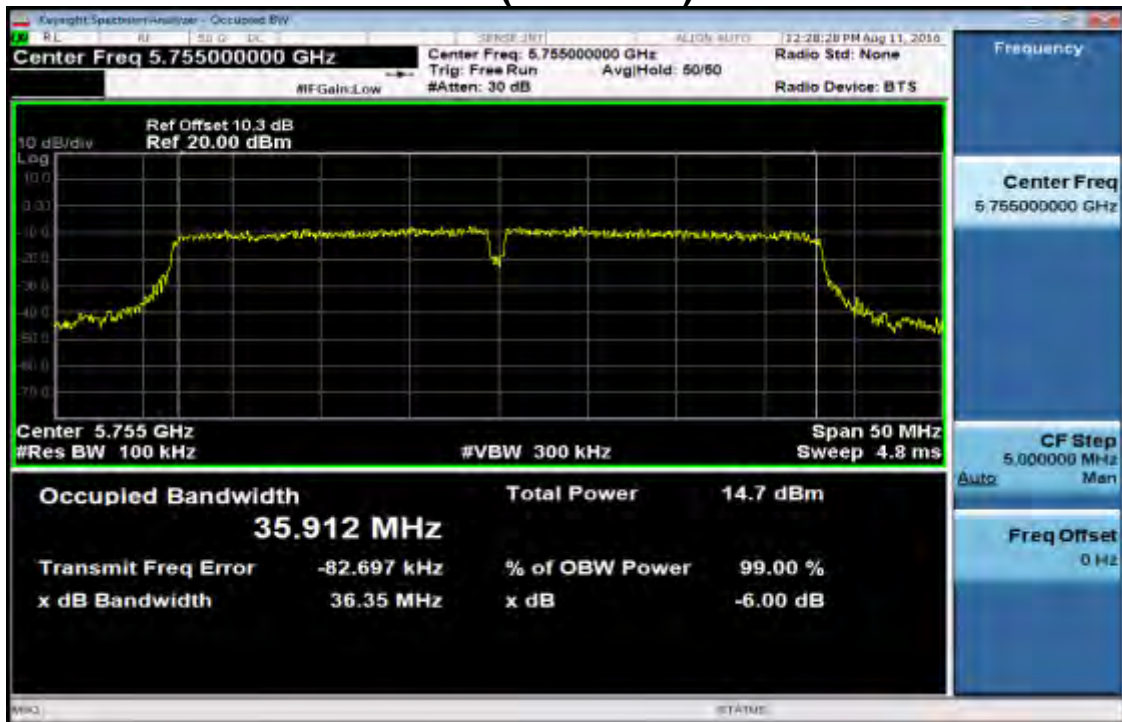
t (886-2) 2299-3279

f (886-2) 2298-0488

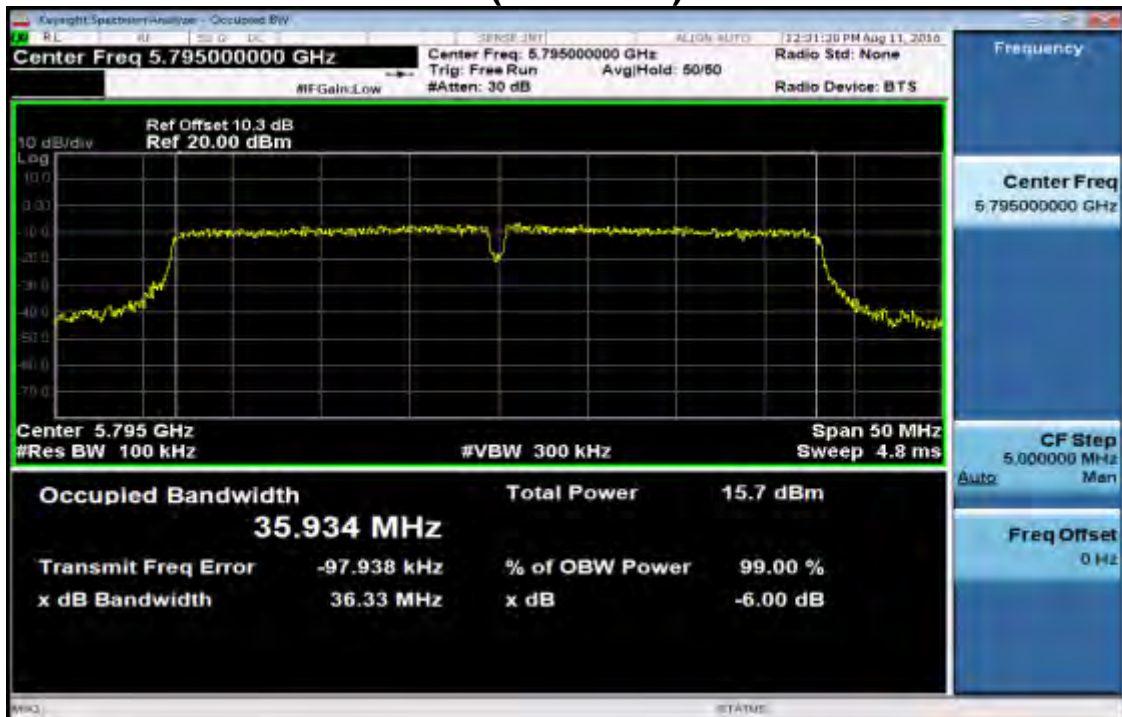
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802.11n_HT40, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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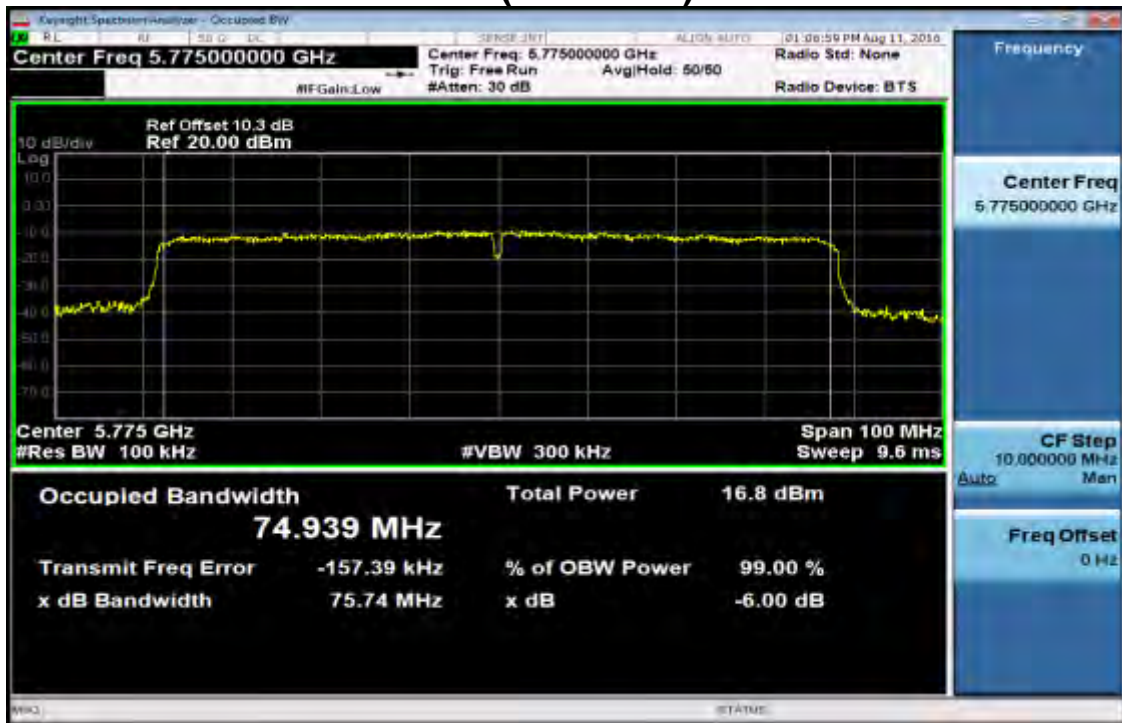
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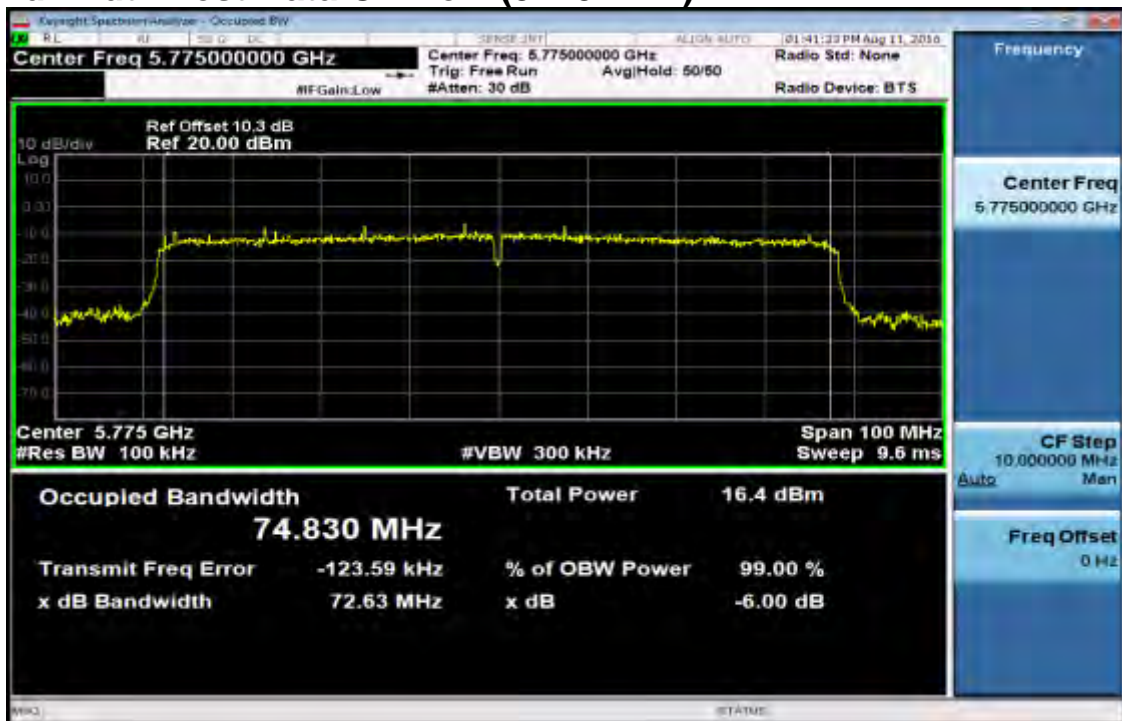
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**802.11ac VHT80, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5775 MHz)**



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



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

OPERATION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	√	clinet device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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Note: 5.15-5.25G

Antenna1 Gain: 2.78 dBi
Antenna2 Gain: 3.01 dBi
Number Antenna: 2 pcs
Limit: 23.98 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.02 dBi
Limit: 23.98dBm – (6.02– 6dBi)=23.96

Note: 5.25-5.35G

Antenna1 Gain: 2.78 dBi
Antenna2 Gain: 3.01 dBi
Number Antenna: 2 pcs
Limit: 23.98 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.02 dBi
Limit: 23.98dBm – (6.02– 6dBi)=23.96

Note: 5.47-5.725G

Antenna1 Gain: 1.89 dBi
Antenna2 Gain: 4.11 dBi
Number Antenna: 2 pcs
Limit: 23.98 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 7.12 dBi
Limit: 23.968dBm – (7.12– 6dBi)=22.86

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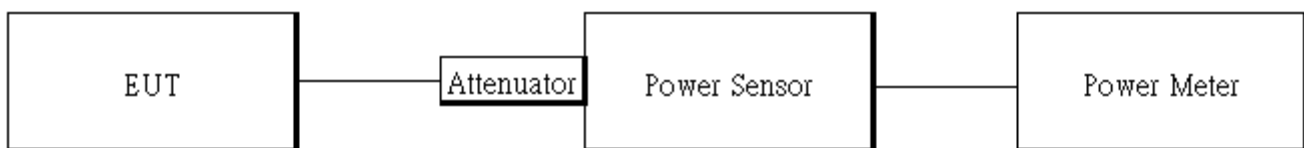
9.2 Measurement Procedure

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/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

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.44	27.797	23.98	PASS
44	5220	MCS0	14.37	27.353	23.98	PASS
48	5240	MCS0	14.24	26.546	23.98	PASS
52	5260	MCS0	14.16	26.062	23.98 or $11+10\log(B) = 23.98$	PASS
60	5300	MCS0	14.44	27.797	23.98 or $11+10\log(B) = 24.02$	PASS
64	5320	MCS0	14.47	27.990	23.98 or $11+10\log(B) = 24.04$	PASS
100	5500	MCS0	14.49	28.119	23.98 or $11+10\log(B) = 24.13$	PASS
116	5580	MCS0	14.49	28.119	23.98 or $11+10\log(B) = 24.17$	PASS
140	5700	MCS0	14.46	27.925	23.98 or $11+10\log(B) = 24.08$	PASS
149	5745	MCS0	14.49	28.119	30	PASS
157	5785	MCS0	14.48	28.054	30	PASS
165	5825	MCS0	14.22	26.424	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
36	5180	MCS8	11.72	11.21	14.48	28.072	23.96		PASS
44	5220	MCS8	11.69	11.11	14.42	27.669	23.96		PASS
48	5240	MCS8	11.65	11.07	14.38	27.416	23.96		PASS
52	5260	MCS8	11.68	11.27	14.49	28.120	23.96	or 11+10log(B) 24.05	PASS
60	5300	MCS8	11.67	11.24	14.47	27.994	23.96	or 11+10log(B) 23.96	PASS
64	5320	MCS8	11.66	11.3	14.49	28.145	23.96	or 11+10log(B) 24.02	PASS
100	5500	MCS8	11.68	11.11	14.41	27.635	22.86	or 11+10log(B) 24.10	PASS
116	5580	MCS8	11.76	11.11	14.46	27.909	22.86	or 11+10log(B) 24.04	PASS
140	5700	MCS8	11.88	10.74	14.36	27.275	22.86	or 11+10log(B) 24.00	PASS
149	5745	MCS8	11.98	10.67	14.38	27.444	30		PASS
157	5785	MCS8	11.84	11.02	14.46	27.923	30		PASS
165	5825	MCS8	11.73	10.57	14.20	26.296	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					
38	5190	MCS8	11.46	11.33	14.41	27.579	23.96		PASS
46	5230	MCS8	11.89	10.87	14.42	27.671	23.96		PASS
54	5270	MCS8	11.68	11.28	14.49	28.151	23.96	or 11+10log(B) 27.03	PASS
62	5310	MCS8	11.61	11.22	14.43	27.731	23.96	or 11+10log(B) 27.04	PASS
102	5510	MCS8	11.81	11.12	14.49	28.112	22.86	or 11+10log(B) 27.04	PASS
110	5550	MCS8	11.72	11.11	14.44	27.772	22.86	or 11+10log(B) 27.09	PASS
134	5670	MCS8	11.79	11.14	14.49	28.102	22.86	or 11+10log(B) 27.05	PASS
151	5755	MCS8	11.73	11.13	14.45	27.865	30		PASS
159	5795	MCS8	11.77	10.75	14.30	26.916	30		PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
36	5180	MCS8	11.79	10.67	14.28	26.769	23.96		PASS
44	5220	MCS8	11.74	11.03	14.41	27.604	23.96		PASS
48	5240	MCS8	11.41	10.89	14.17	26.110	23.96		PASS
52	5260	MCS8	11.42	10.88	14.17	26.114	23.96	or 11+10log(B) 24.05	PASS
60	5300	MCS8	11.65	10.84	14.27	26.756	23.96	or 11+10log(B) 23.96	PASS
64	5320	MCS8	11.79	10.98	14.41	27.632	23.96	or 11+10log(B) 24.02	PASS
100	5500	MCS8	11.74	11.01	14.40	27.546	22.86	or 11+10log(B) 24.10	PASS
116	5580	MCS8	11.48	10.8	14.16	26.083	22.86	or 11+10log(B) 24.04	PASS
140	5700	MCS8	11.65	10.69	14.21	26.344	22.86	or 11+10log(B) 24.00	PASS
149	5745	MCS8	11.89	10.67	14.33	27.121	30		PASS
157	5785	MCS8	11.57	10.36	14.02	25.219	30		PASS
165	5825	MCS8	11.6	10.28	14.00	25.120	30		PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
38	5190	MCS8	11.49	11.1	14.31	26.975	23.96		PASS
46	5230	MCS8	11.65	11.12	14.40	27.564	23.96		PASS
54	5270	MCS8	11.55	10.99	14.29	26.849	23.96	or 11+10log(B) 27.03	PASS
62	5310	MCS8	11.46	10.9	14.20	26.299	23.96	or 11+10log(B) 27.04	PASS
102	5510	MCS8	11.75	10.9	14.36	27.265	22.86	or 11+10log(B) 27.04	PASS
110	5550	MCS8	11.38	10.65	14.04	25.355	22.86	or 11+10log(B) 27.09	PASS
134	5670	MCS8	12.05	10.65	14.42	27.647	22.86	or 11+10log(B) 27.05	PASS
151	5755	MCS8	11.44	10.5	14.01	25.152	30		PASS
159	5795	MCS8	11.57	10.58	14.11	25.784	30		PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
42	5210	MCS8	11.1	11.3	14.21	26.372	23.96		PASS
58	5290	MCS8	11.28	11.18	14.24	26.550	23.96	or 11+10log(B) 30.08	PASS
106	5530	MCS8	11.75	10.27	14.08	25.604	22.86	or 11+10log(B) 30.05	PASS
122	5610	MCS8	11.11	11.23	14.18	26.186	22.86	or 11+10log(B) 30.07	PASS
155	5775	MCS8	11.26	10.89	14.09	25.640	30		PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERATION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	17dBm/ MHz
		Fixed point-to-point Acess Ponit	
	√	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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Note: 5.15-5.25G

Antenna1 Gain: 2.78 dBi
Antenna2 Gain: 3.01 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.02 dBi
Limit: 11dBm – (6.02– 6dBi)=10.98

Note: 5.25-5.35G

Antenna1 Gain: 2.78 dBi
Antenna2 Gain: 3.01 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 6.02 dBi
Limit: 11dBm – (6.02– 6dBi)=10.98

Note: 5.47-5.725G

Antenna1 Gain: 1.89 dBi
Antenna2 Gain: 4.11 dBi
Number Antenna: 2 pcs
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 7.12 dBi
Limit: 118dBm – (7.12– 6dBi)=9.88

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10.2 Measurement Procedure

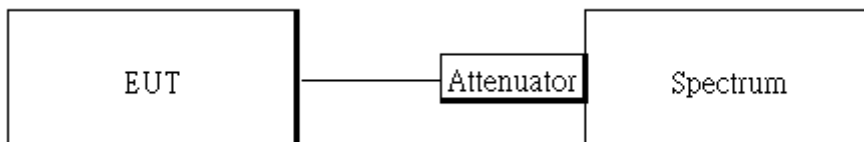
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW≥ 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	2.87	11	-8.13
5220	2.38	11	-8.62
5240	2.75	11	-8.25
5260	2.68	11	-8.32
5300	1.92	11	-9.08
5320	1.89	11	-9.11
5500	2.37	11	-8.63
5580	1.97	11	-9.03
5700	2.51	11	-8.49
5745	6.96	30	-23.04
5785	7.27	30	-22.73
5825	7.07	30	-22.93

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.84	10.98	-9.14
5220	2.08	10.98	-8.90
5240	1.87	10.98	-9.11
5260	2.81	10.98	-8.17
5300	1.87	10.98	-9.11
5320	1.87	10.98	-9.11
5500	1.57	9.88	-8.31
5580	1.32	9.88	-8.56
5700	2.66	9.88	-7.22
5745	6.44	30	-23.56
5785	6.11	30	-23.89
5825	6.10	30	-23.90

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POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-2.21	10.98	-13.19
5230	-0.88	10.98	-11.86
5270	-1.46	10.98	-12.44
5310	-1.25	10.98	-12.23
5510	-0.92	9.88	-10.80
5550	-1.02	9.88	-10.90
5670	-0.43	9.88	-10.31
5755	4.47	30	-25.53
5795	3.54	30	-26.46

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.76	10.98	-14.74
5290	-3.53	10.98	-14.51
5530	-4.69	9.88	-14.57
5610	-3.49	9.88	-13.37
5775	1.59	30	-28.41

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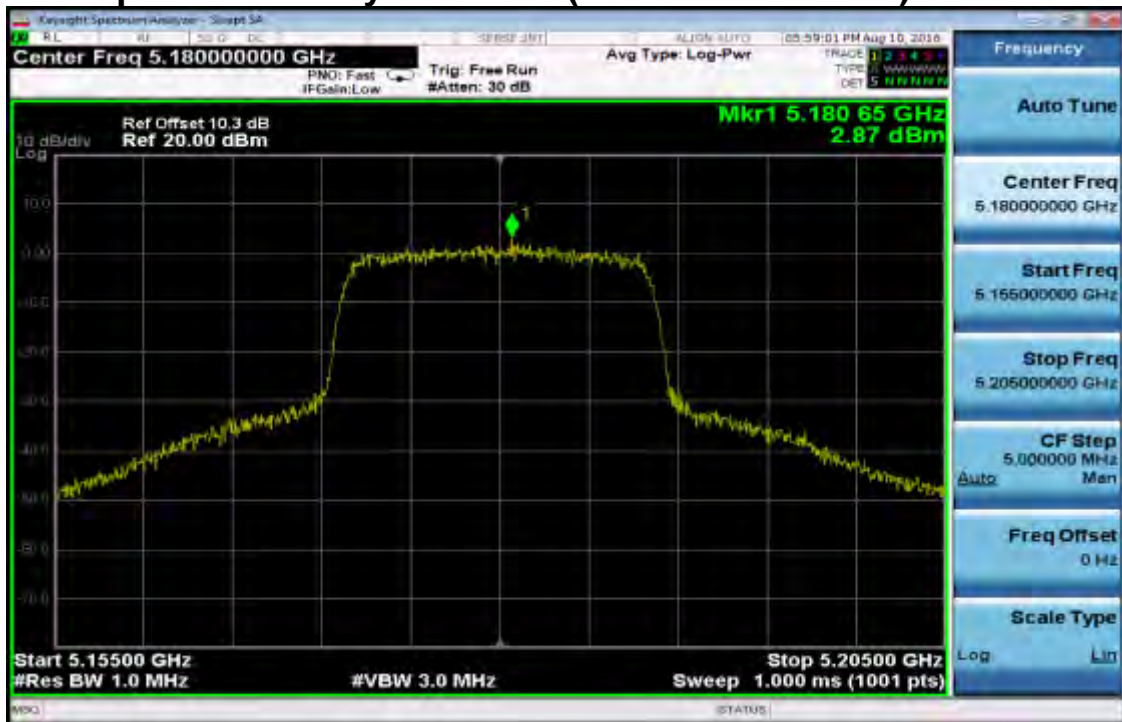
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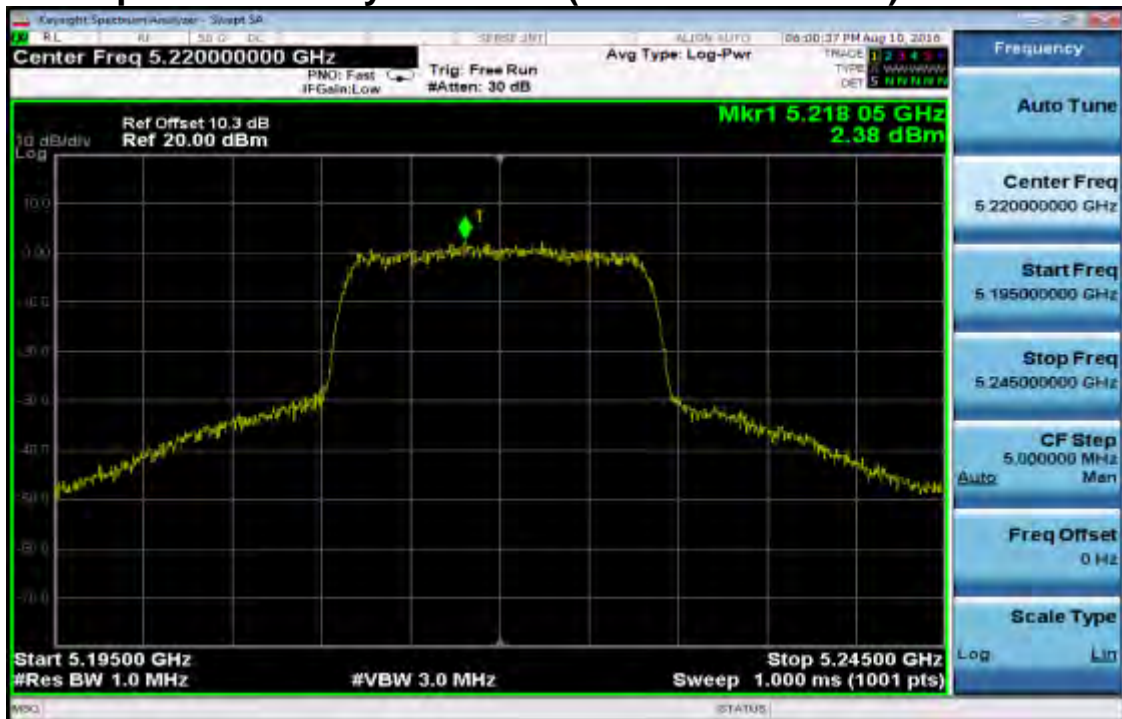
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802.11a 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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



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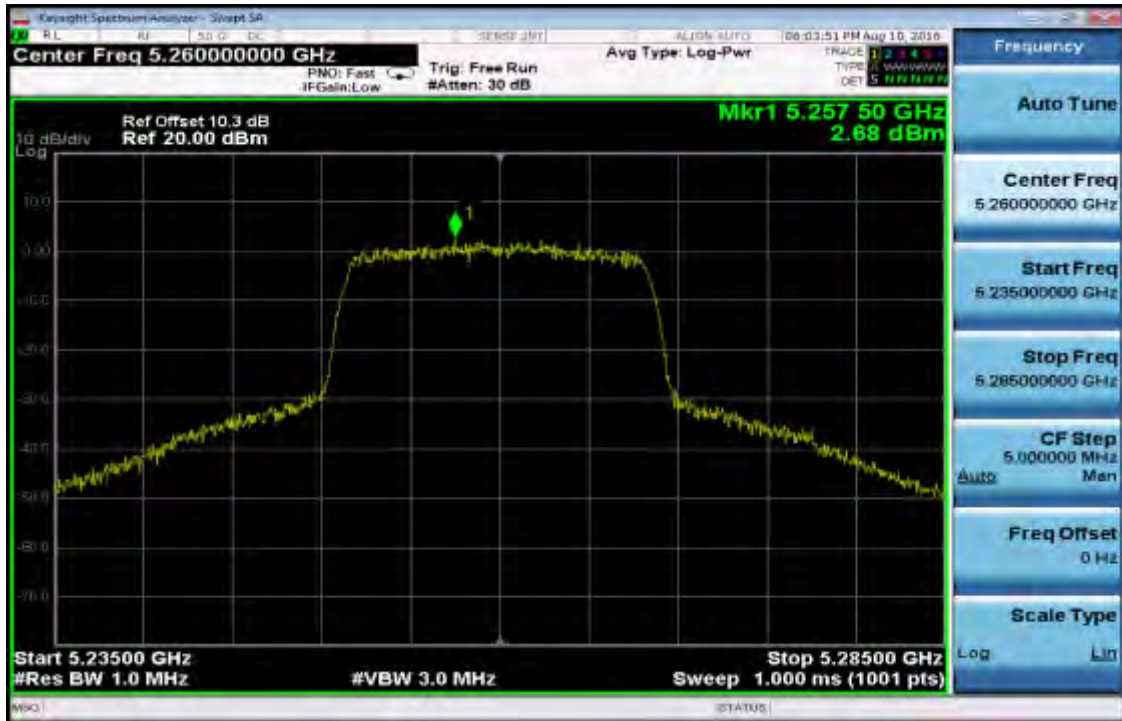
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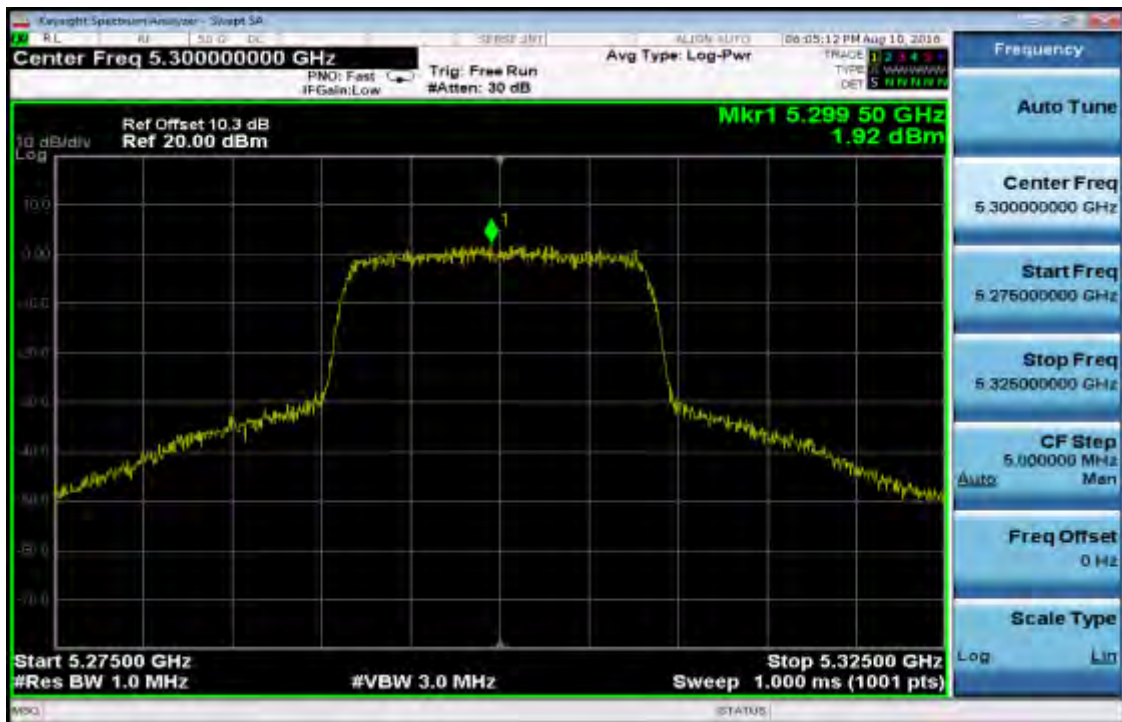
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802.11a 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



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



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



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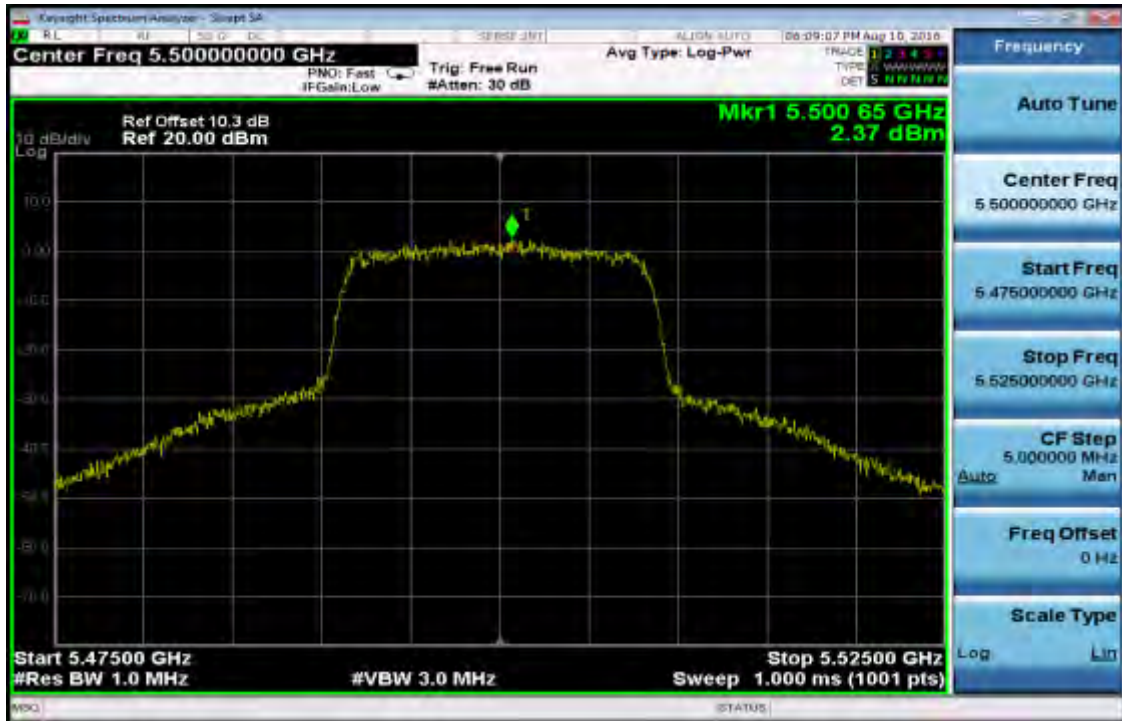
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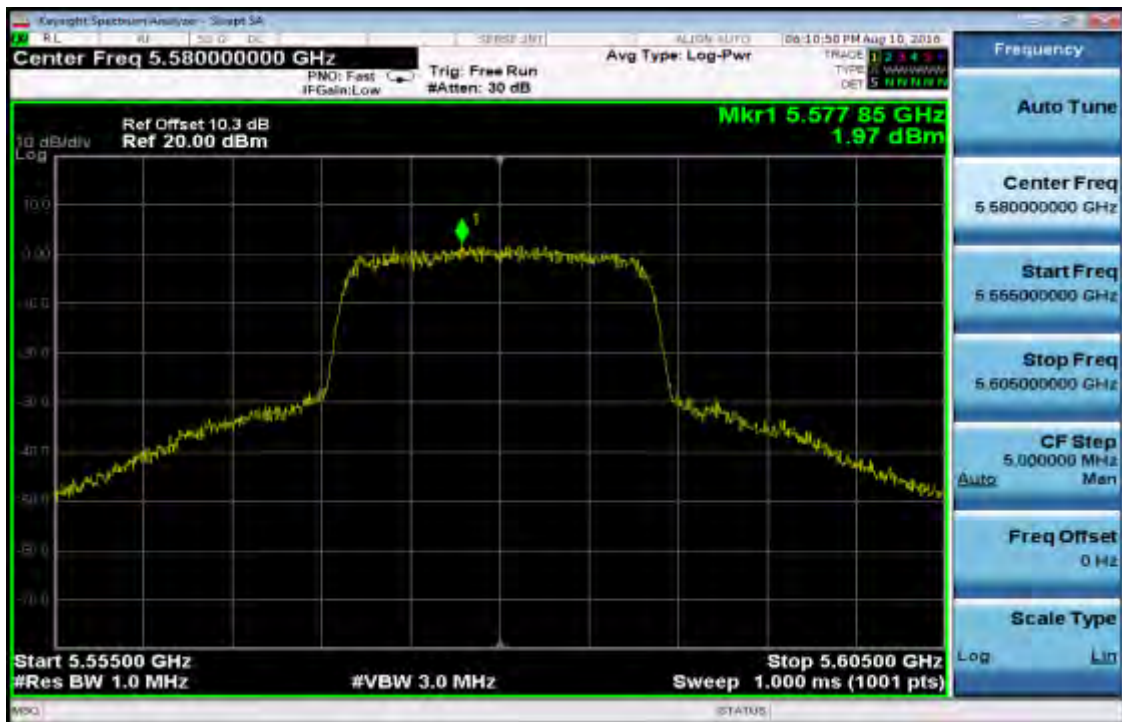
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802.11a 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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



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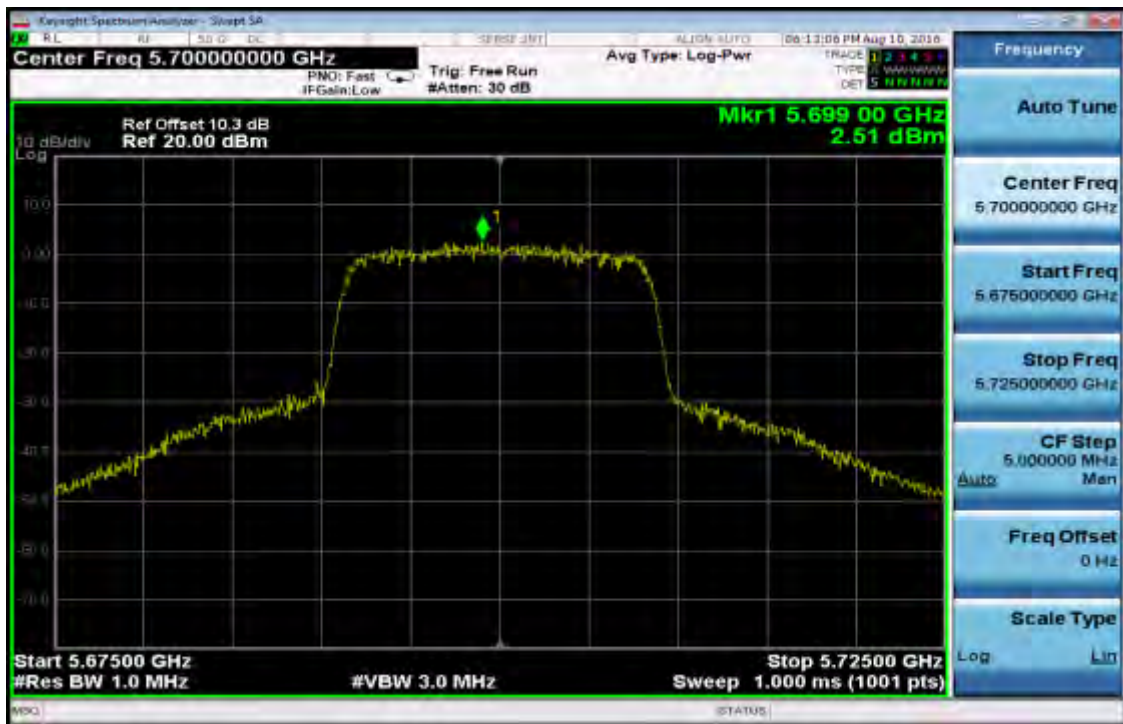
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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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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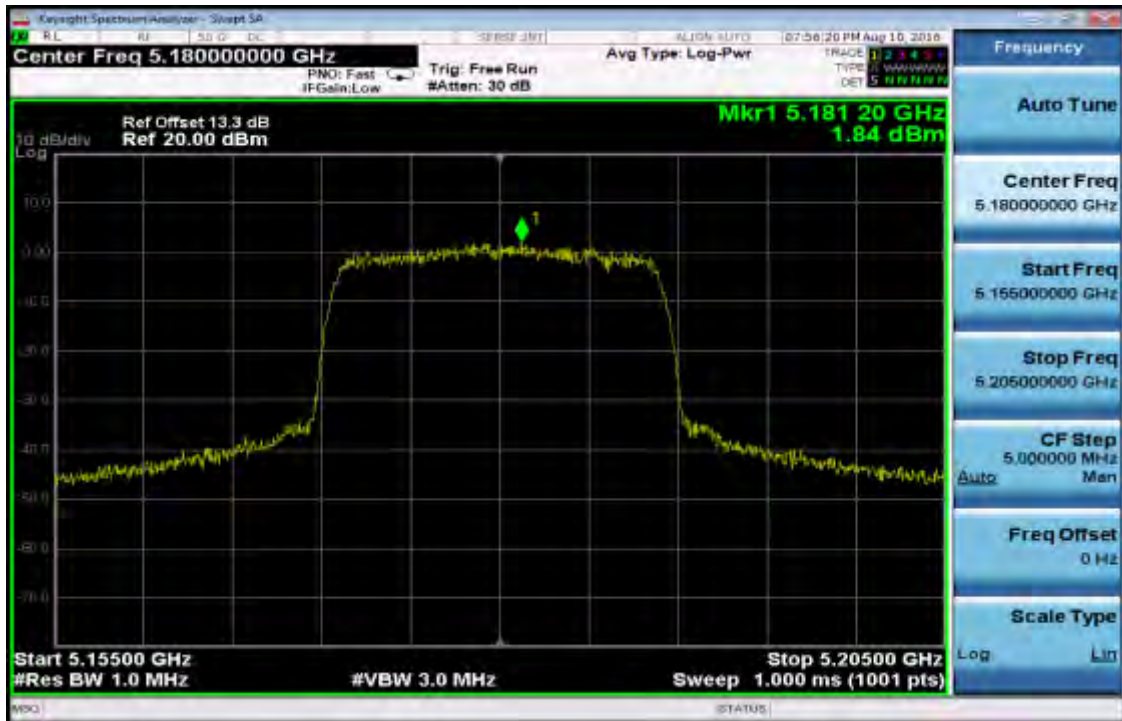
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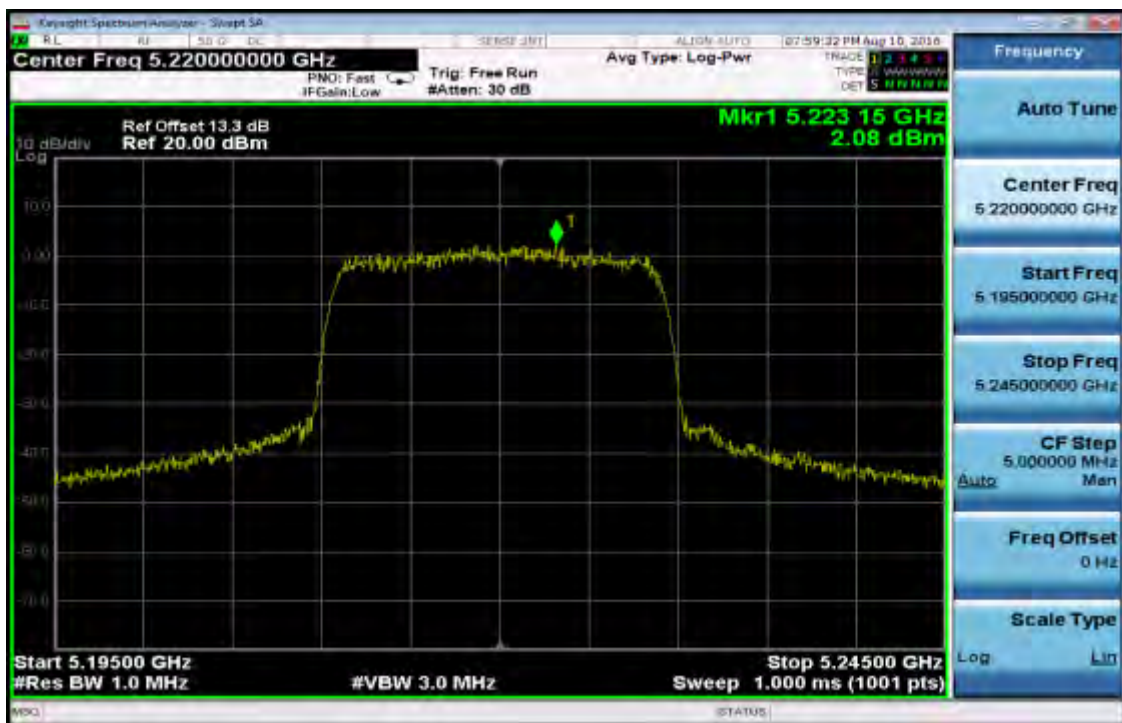
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802.11n HT20, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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



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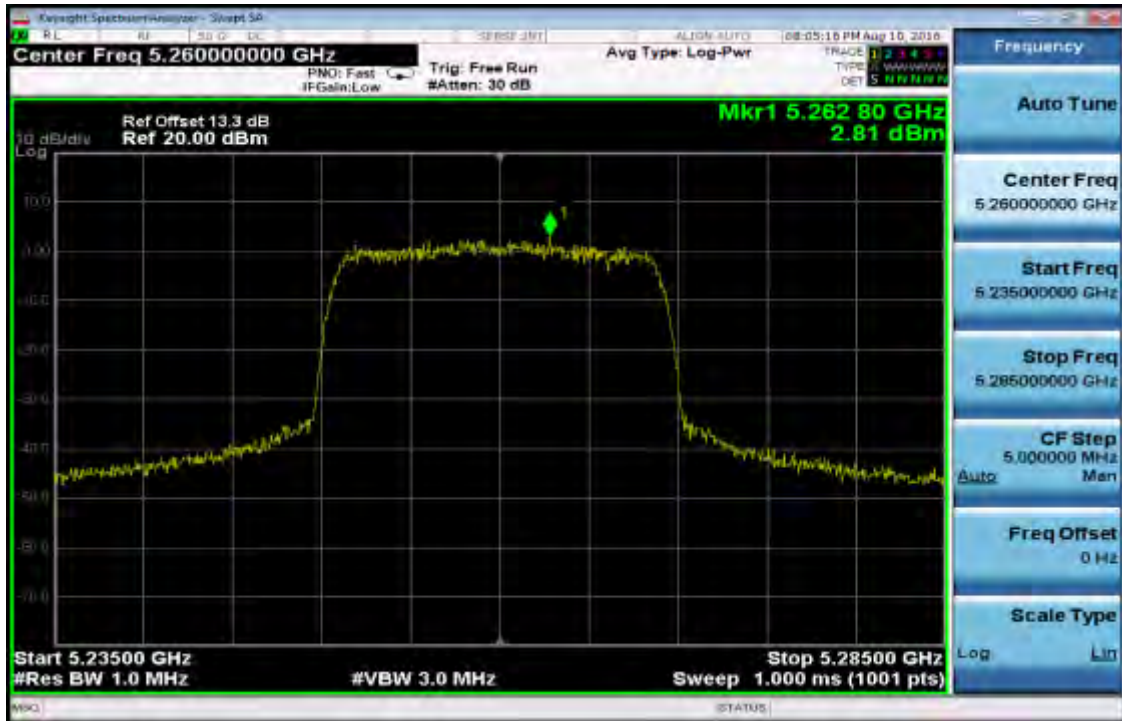
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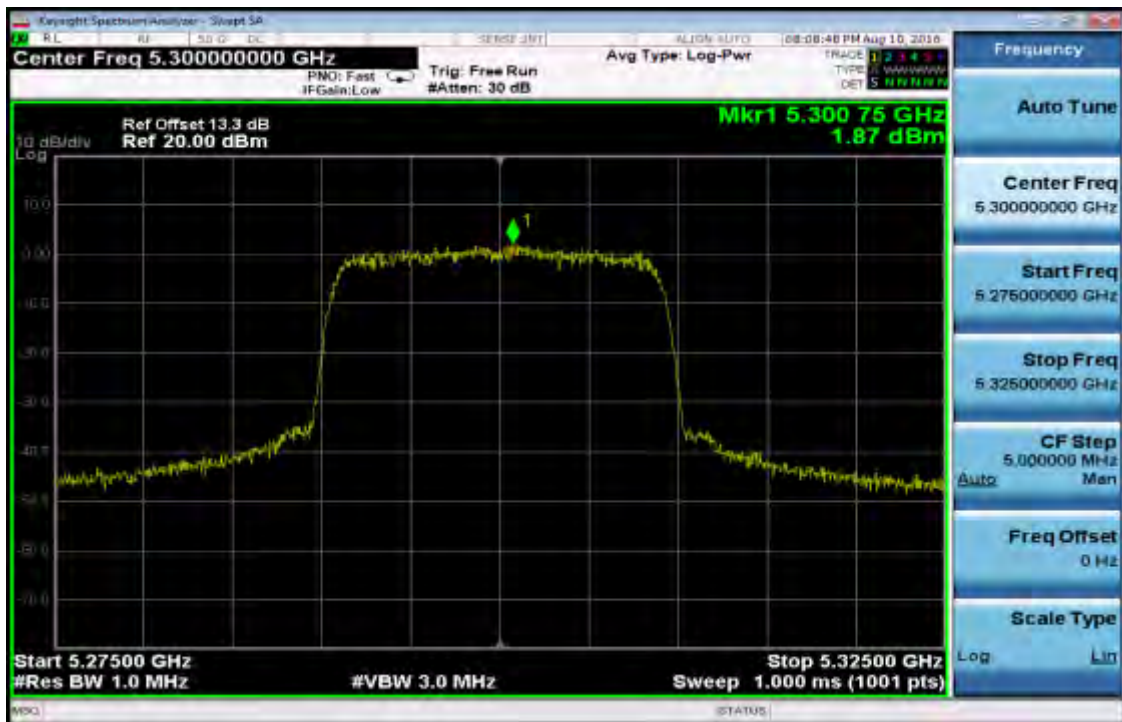
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802.11n HT20, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260MHz)



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



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



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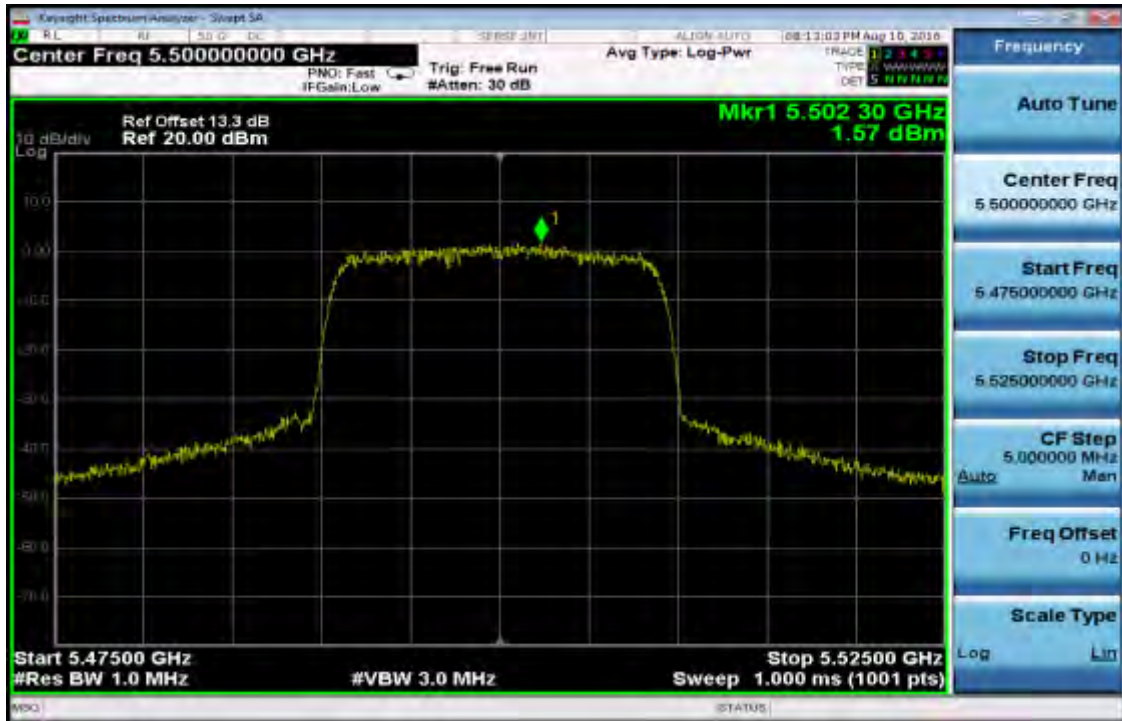
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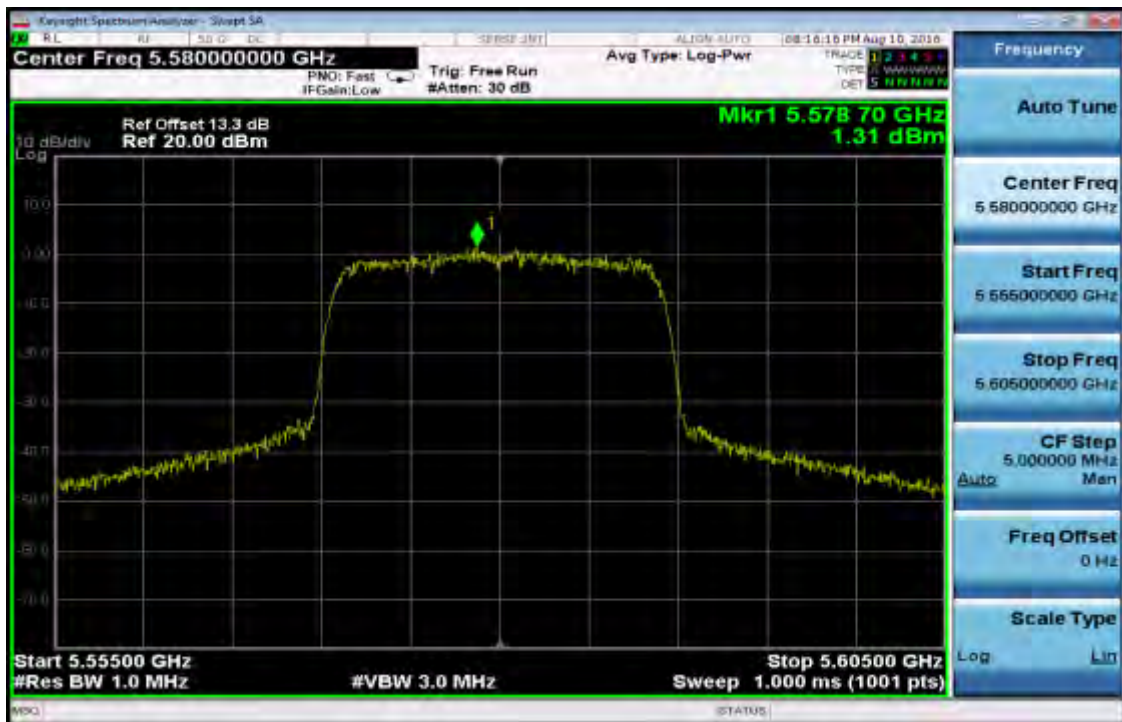
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802.11n HT20, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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



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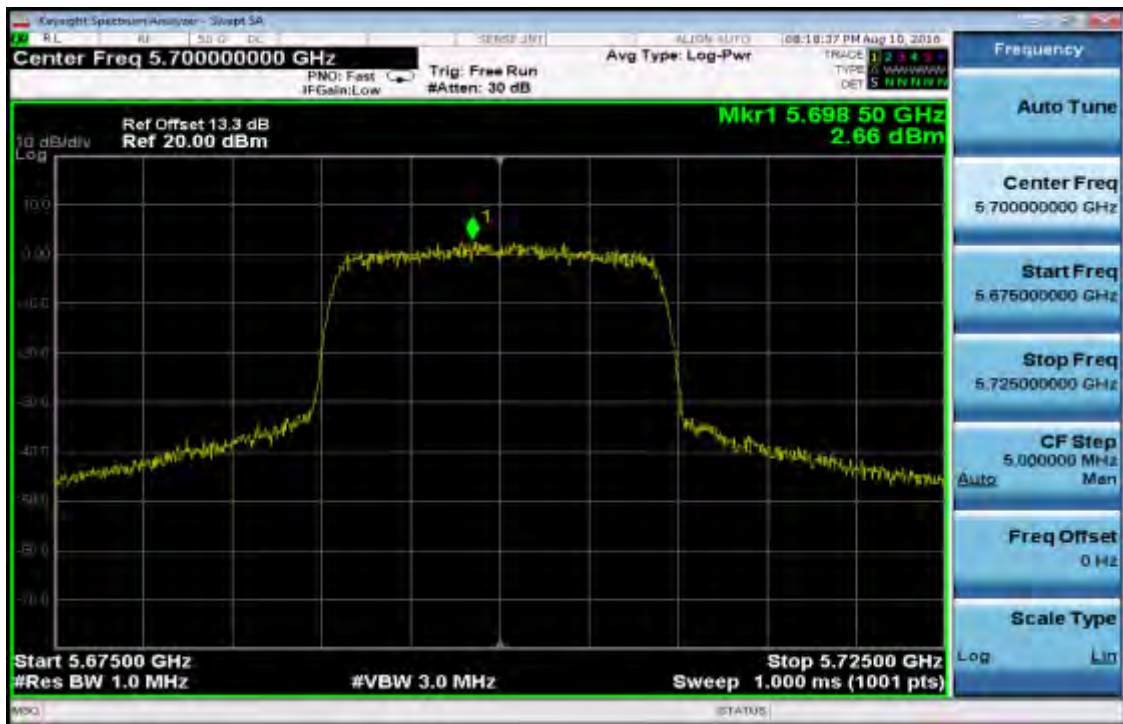
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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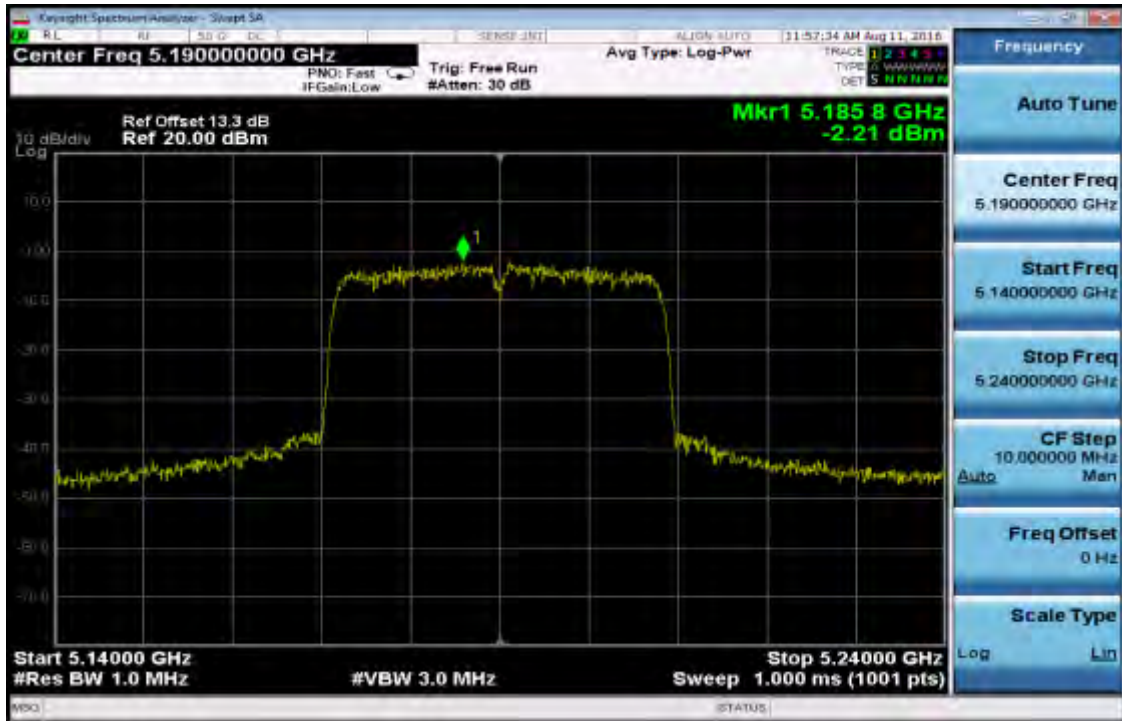
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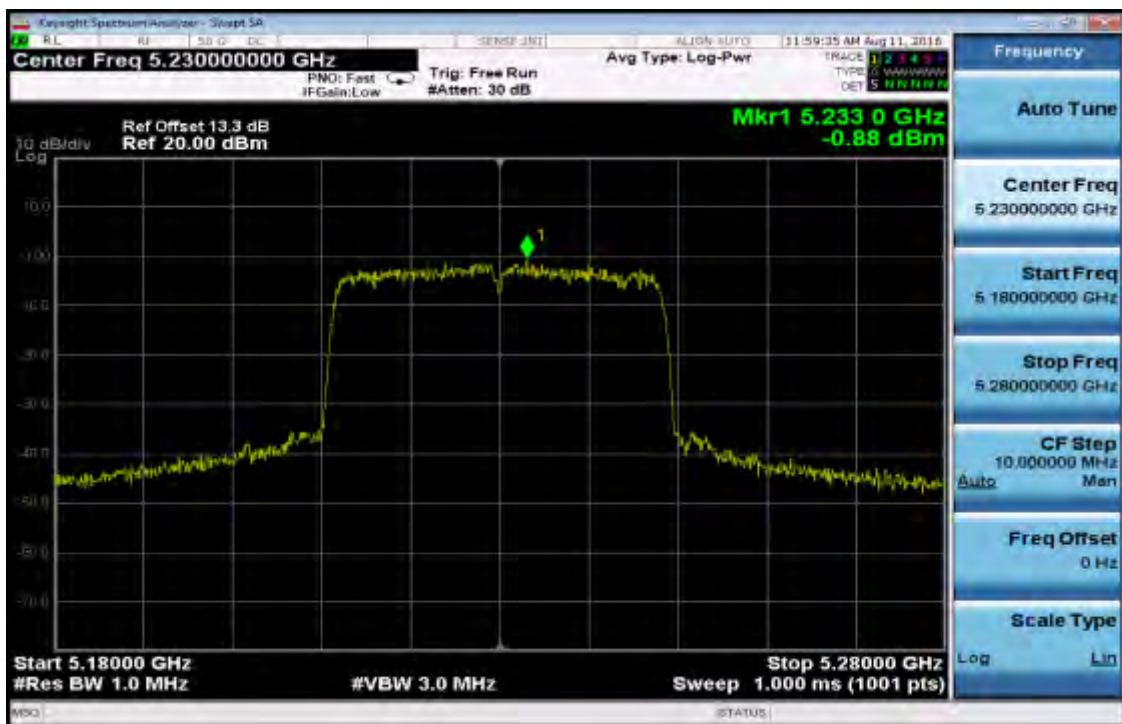
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802.11n HT40, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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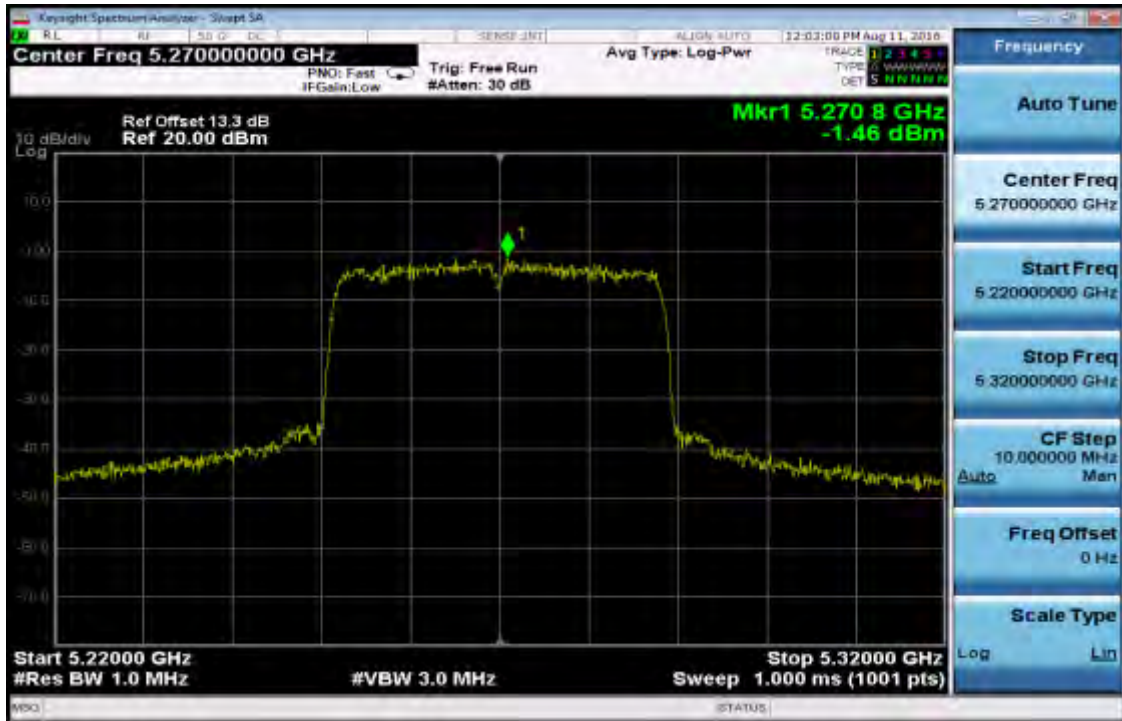
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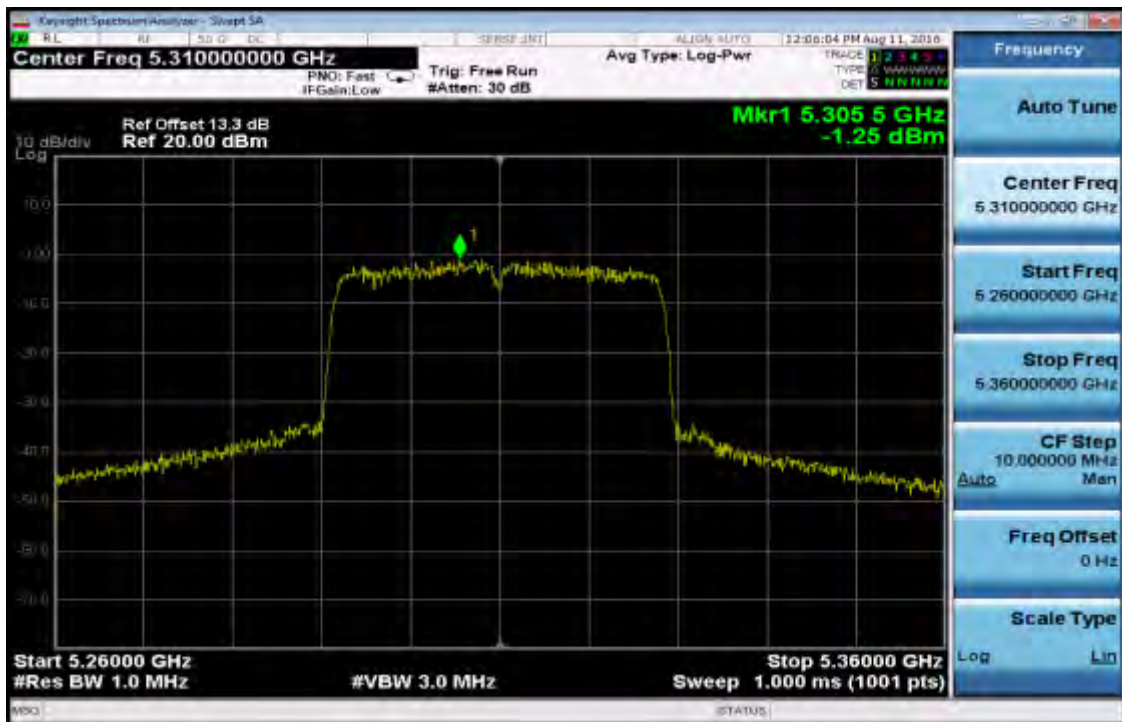
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802.11n HT40, 5250~5350 MHz Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



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



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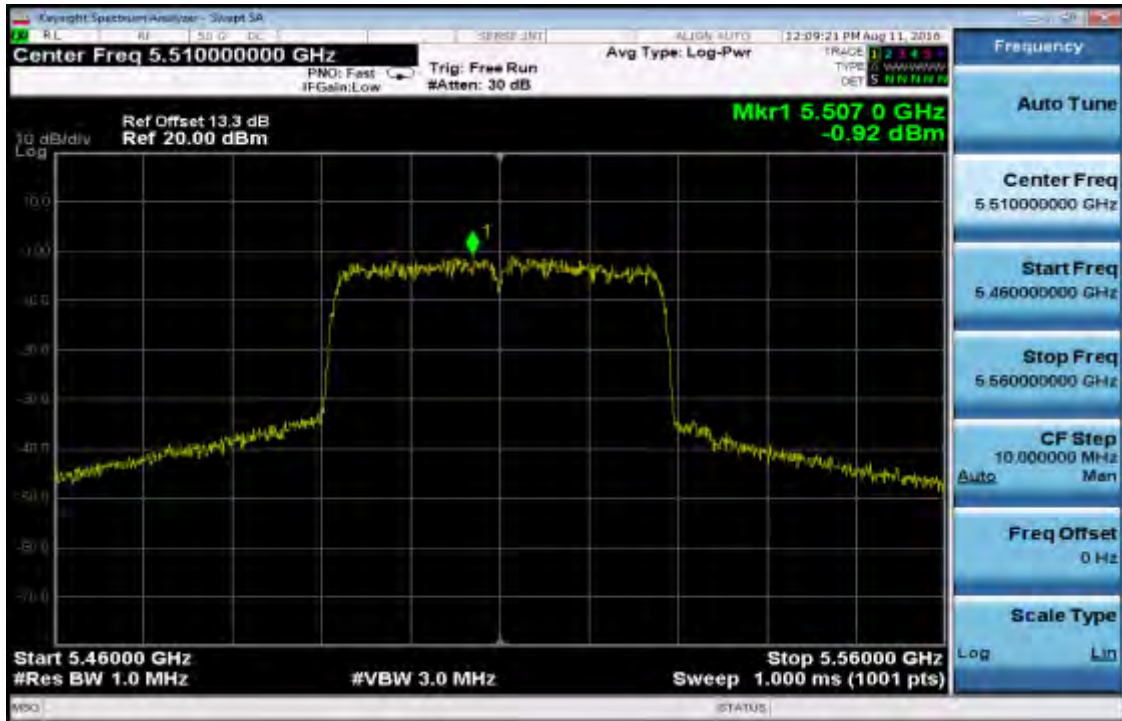
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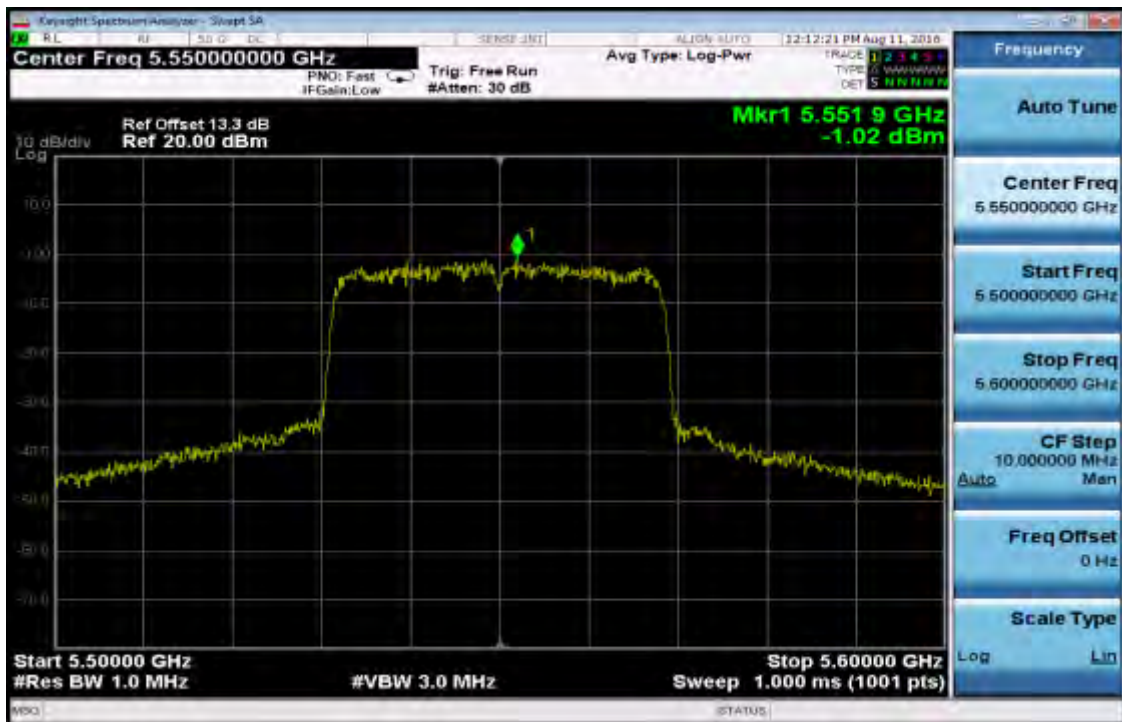
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802.11n HT40, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



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



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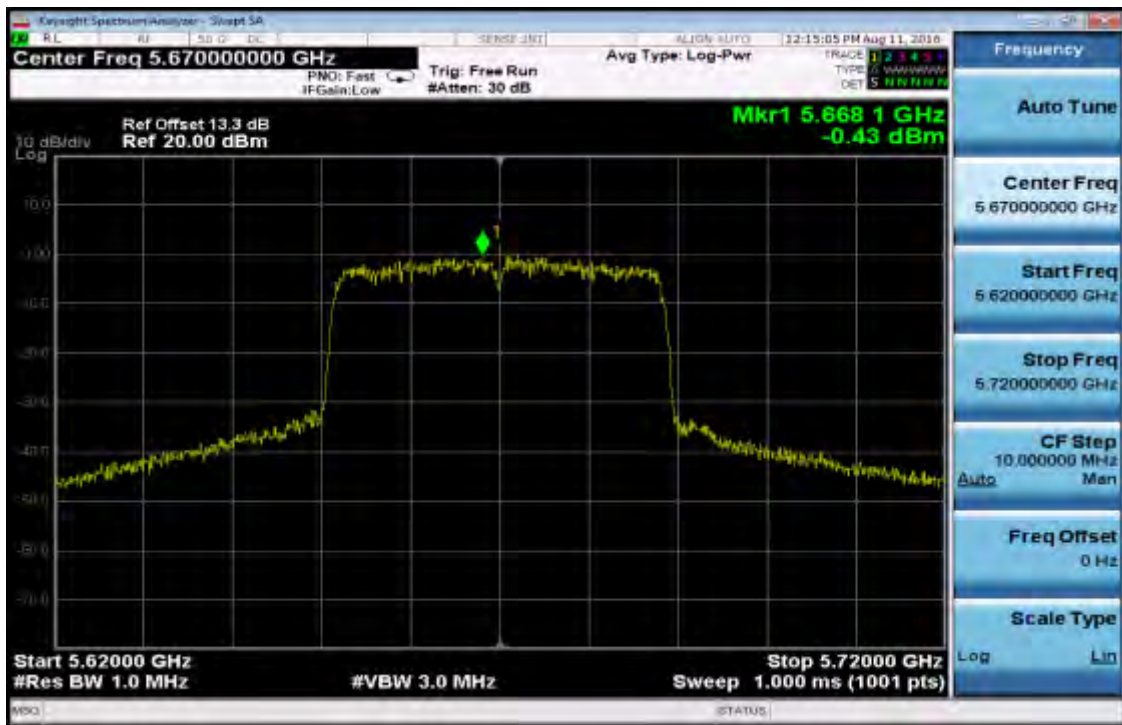
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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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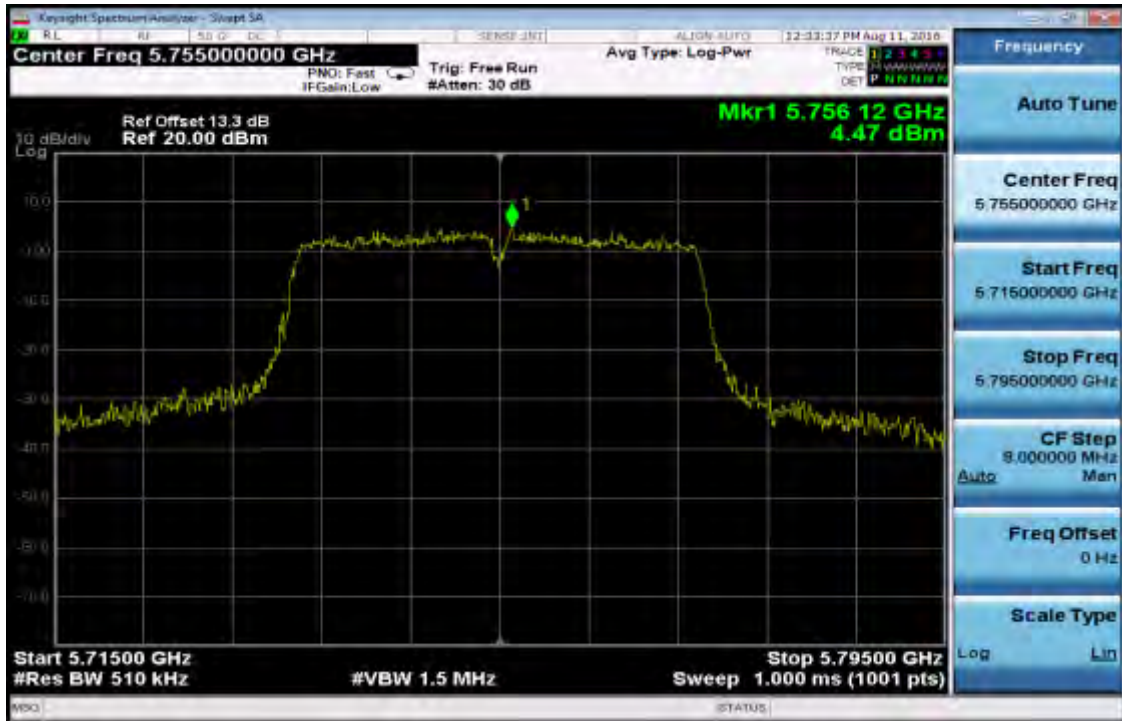
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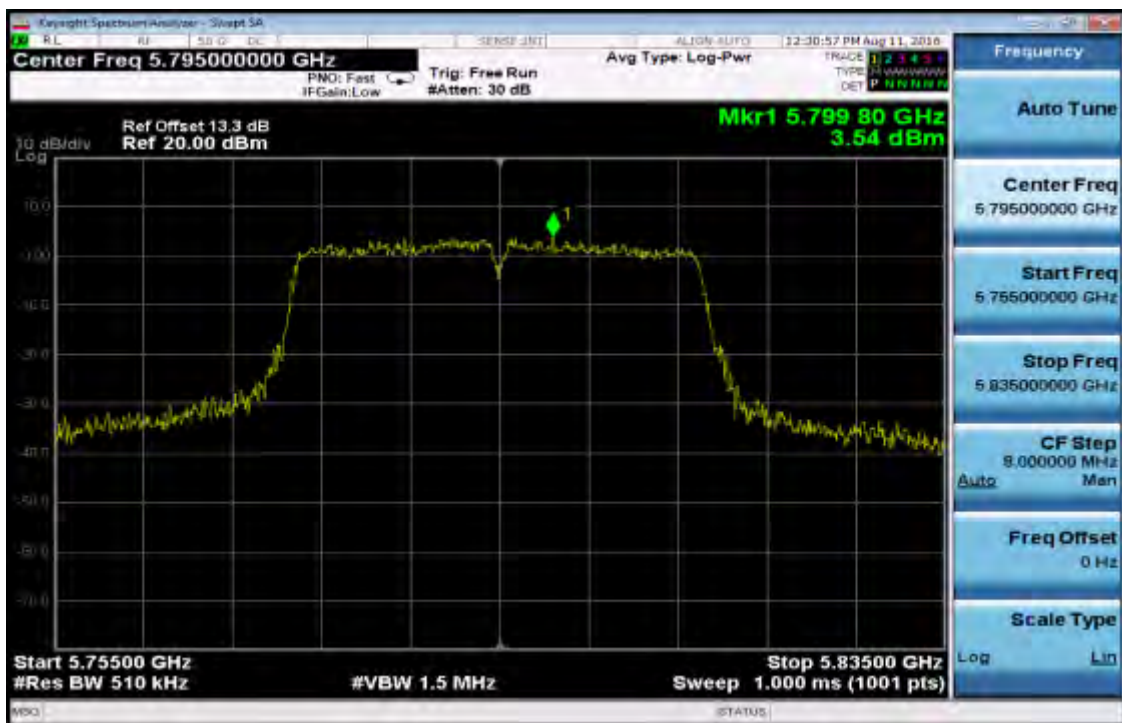
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802.11n HT40, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



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



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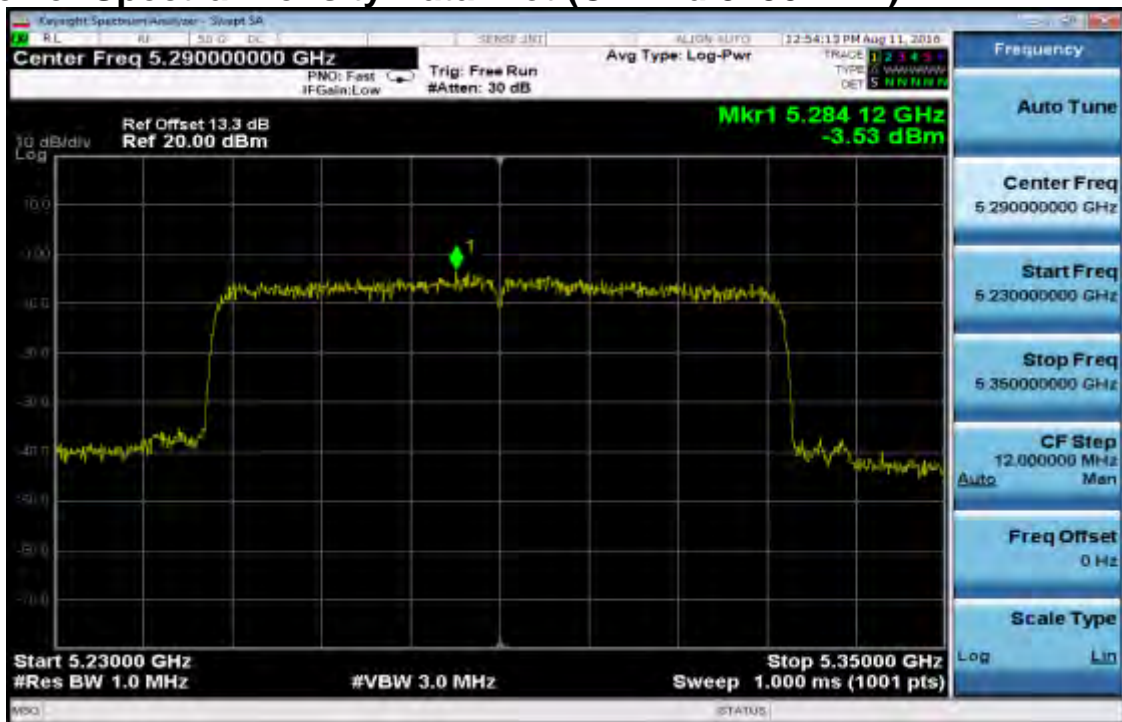
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**802.11ac VHT80, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)**



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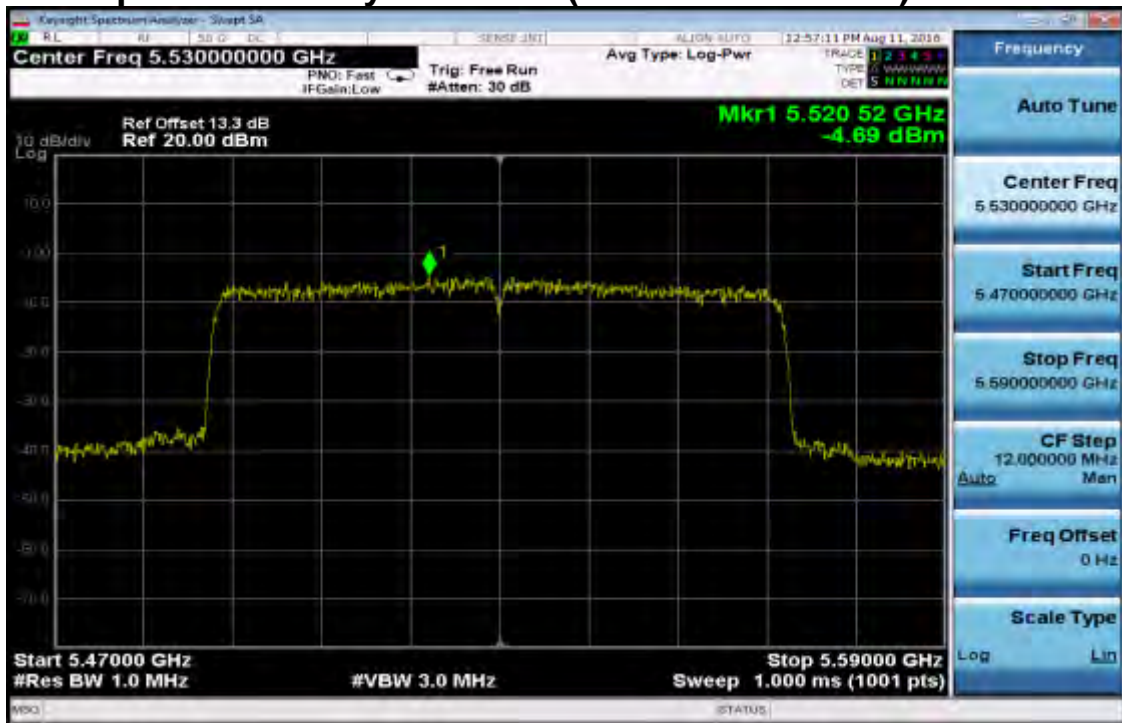
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802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH High 5610 MHz)



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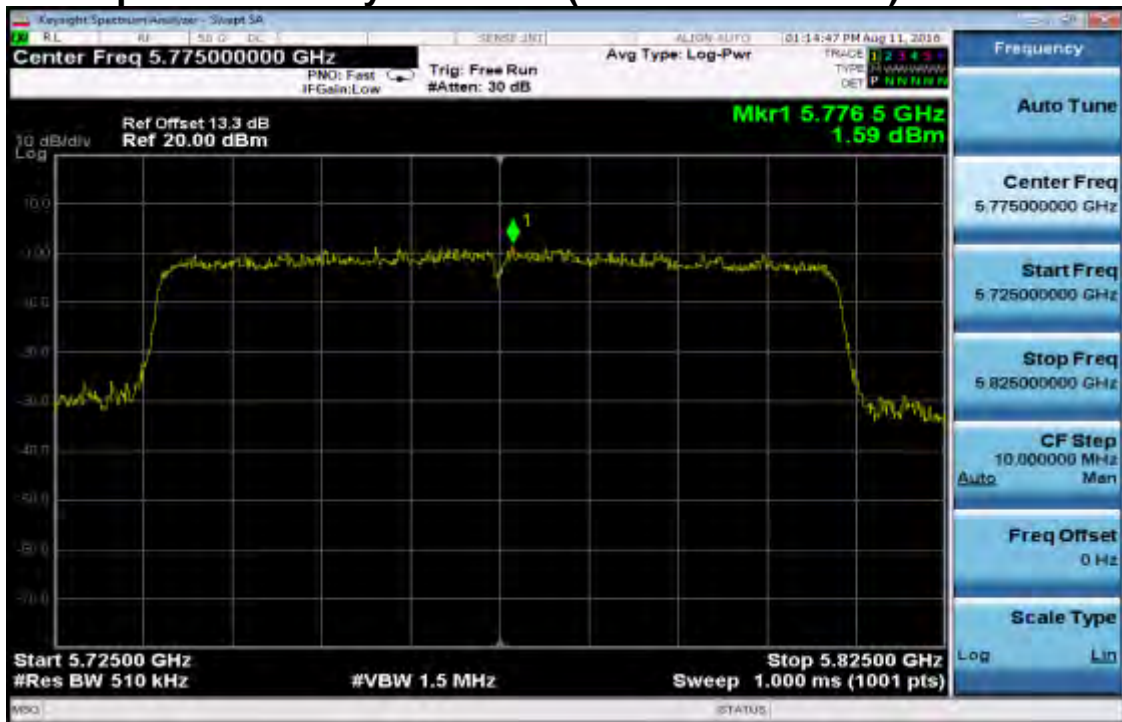
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802.11ac VHT80, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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

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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
<p>*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.</p>		

EIRP = (E*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	ESC17	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	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

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

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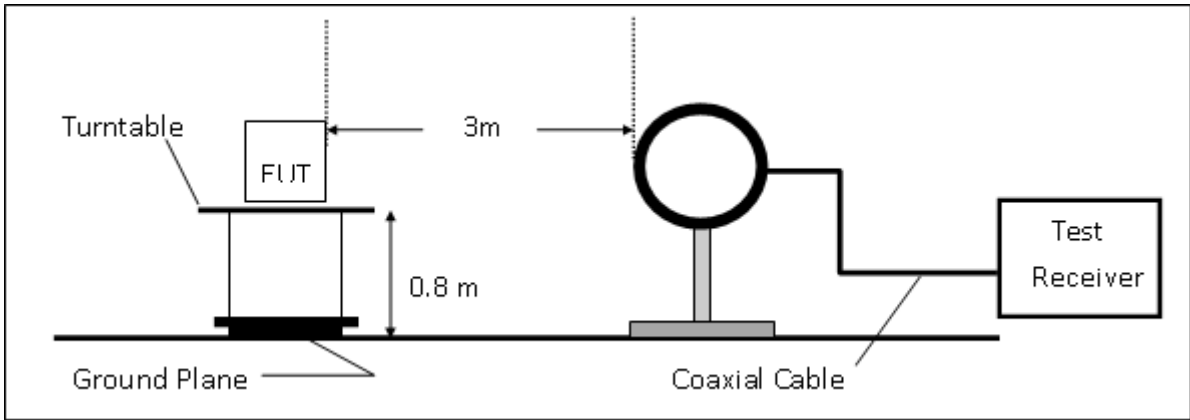
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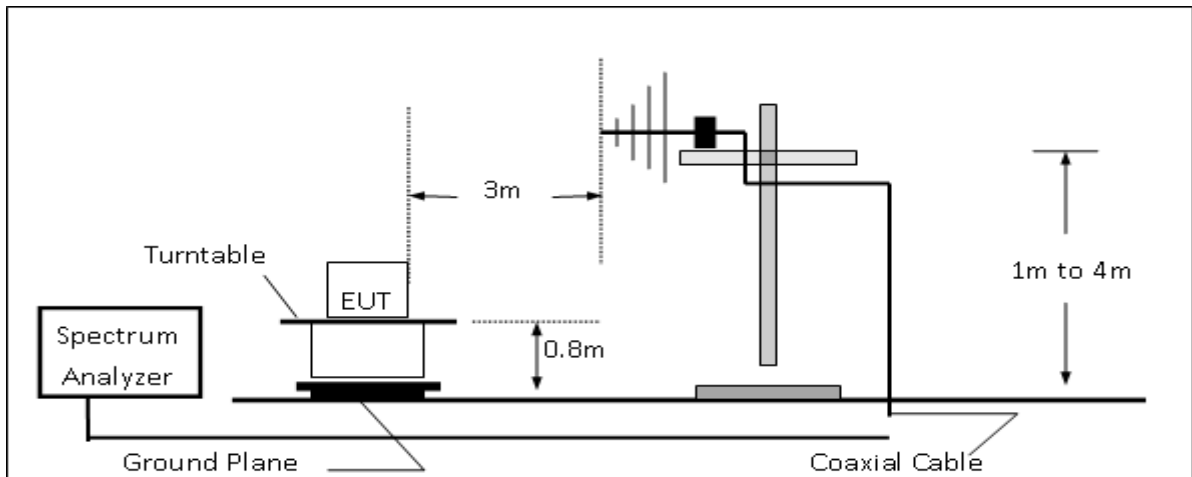
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11.3 Test SET-UP

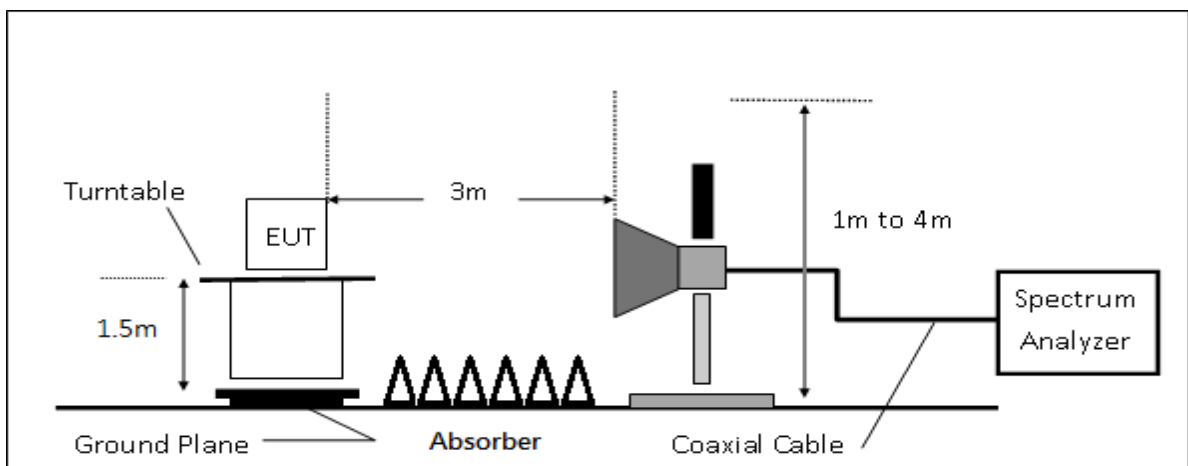
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

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

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

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

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

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Note :

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

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

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

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

11.7 Measurement Result

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

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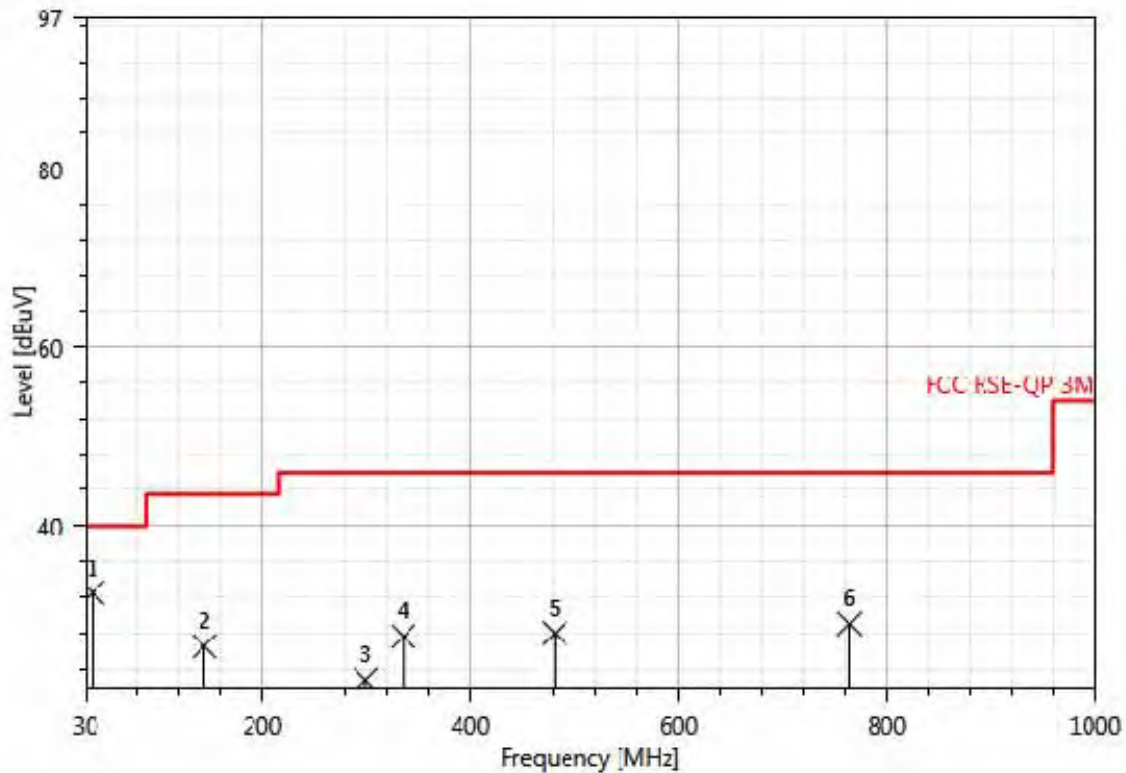
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
36.79	S	Peak	32.48	41.31	-8.84	40.00	-7.52
144.46	S	Peak	26.50	34.57	-8.07	43.50	-17.00
299.66	S	Peak	22.72	28.65	-5.93	46.00	-23.28
335.55	S	Peak	27.59	32.91	-5.32	46.00	-18.41
481.05	S	Peak	27.96	30.33	-2.37	46.00	-18.04
764.29	S	Peak	29.02	26.05	2.97	46.00	-16.98

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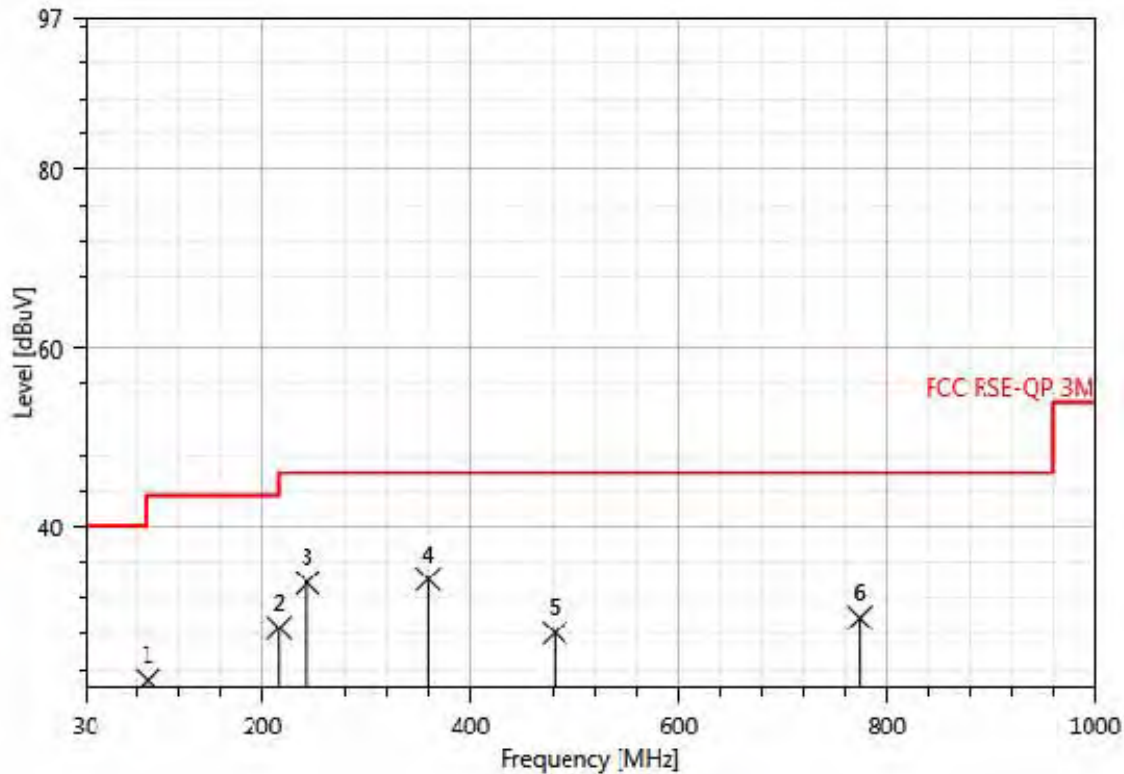
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Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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
90.14	S	Peak	22.82	36.54	-13.72	43.50	-20.68
216.24	S	Peak	28.69	38.12	-9.43	46.00	-17.31
243.40	S	Peak	33.76	41.79	-8.03	46.00	-12.24
359.80	S	Peak	34.16	38.96	-4.80	46.00	-11.84
481.05	S	Peak	28.13	30.50	-2.37	46.00	-17.87
773.99	S	Peak	29.84	27.07	2.77	46.00	-16.16

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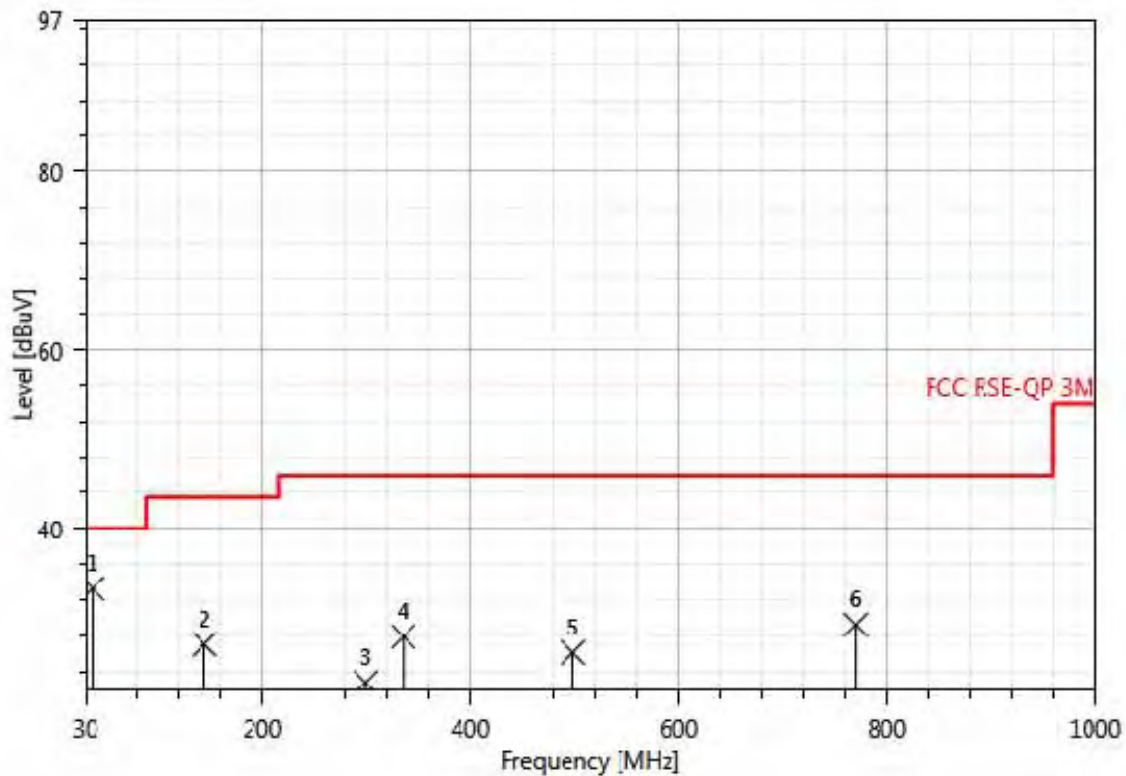
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802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
36.79	S	Peak	33.27	42.11	-8.84	40.00	-6.73
144.46	S	Peak	27.01	35.08	-8.07	43.50	-16.49
299.66	S	Peak	22.72	28.65	-5.93	46.00	-23.28
335.55	S	Peak	27.88	33.20	-5.32	46.00	-18.12
498.51	S	Peak	26.07	28.59	-2.52	46.00	-19.93
770.11	S	Peak	29.21	26.53	2.69	46.00	-16.79

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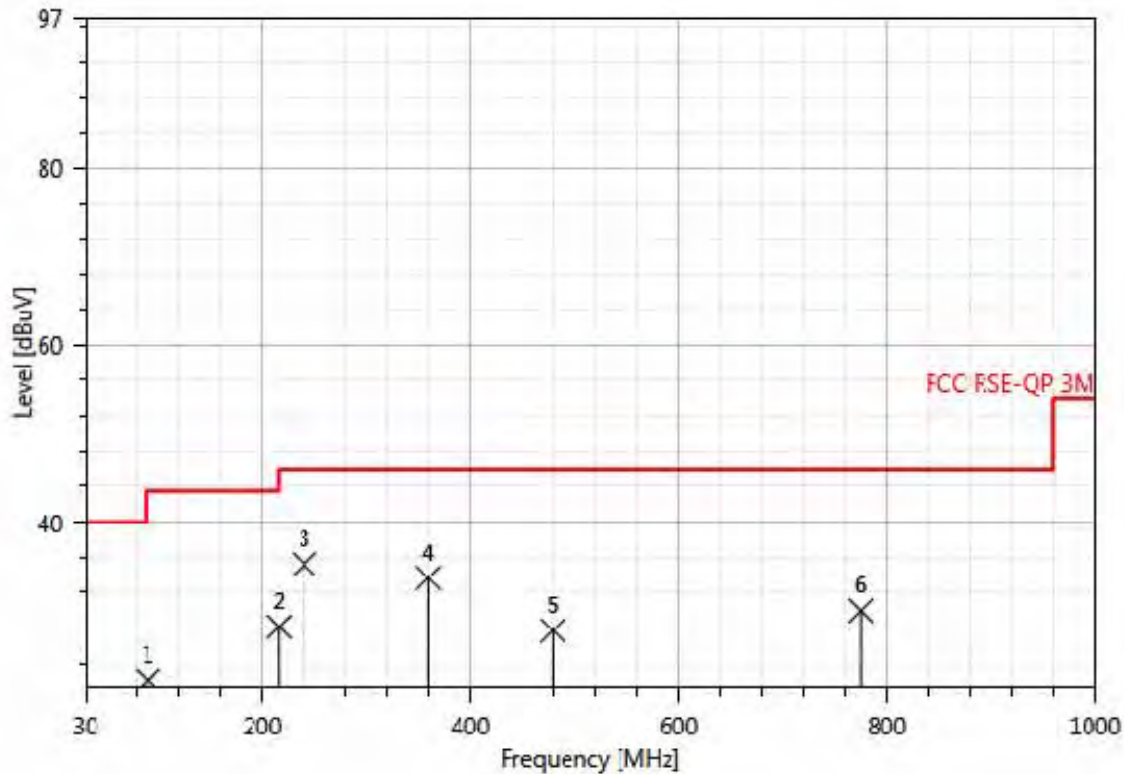
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Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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
90.14	S	Peak	22.09	35.81	-13.72	43.50	-21.41
216.24	S	Peak	28.15	37.58	-9.43	46.00	-17.85
240.49	S	Peak	35.22	43.26	-8.03	46.00	-10.78
359.80	S	Peak	33.67	38.47	-4.80	46.00	-12.33
479.11	S	Peak	27.72	30.11	-2.39	46.00	-18.28
774.96	S	Peak	29.98	27.22	2.76	46.00	-16.02

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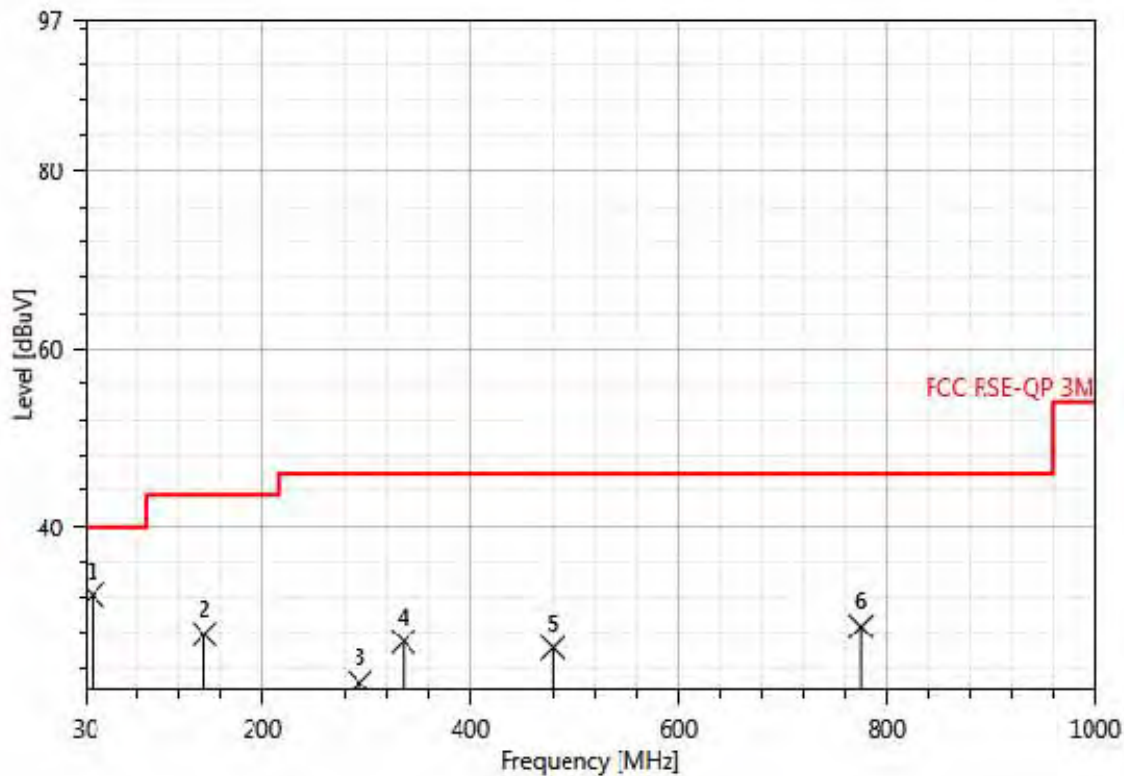
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802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	08/12/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
36.79	S	Peak	32.22	41.05	-8.84	40.00	-7.78
144.46	S	Peak	27.85	35.92	-8.07	43.50	-15.65
293.84	S	Peak	22.41	28.45	-6.05	46.00	-23.59
335.55	S	Peak	27.01	32.34	-5.32	46.00	-18.99
479.11	S	Peak	26.29	28.69	-2.39	46.00	-19.71
774.96	S	Peak	28.71	25.95	2.76	46.00	-17.29

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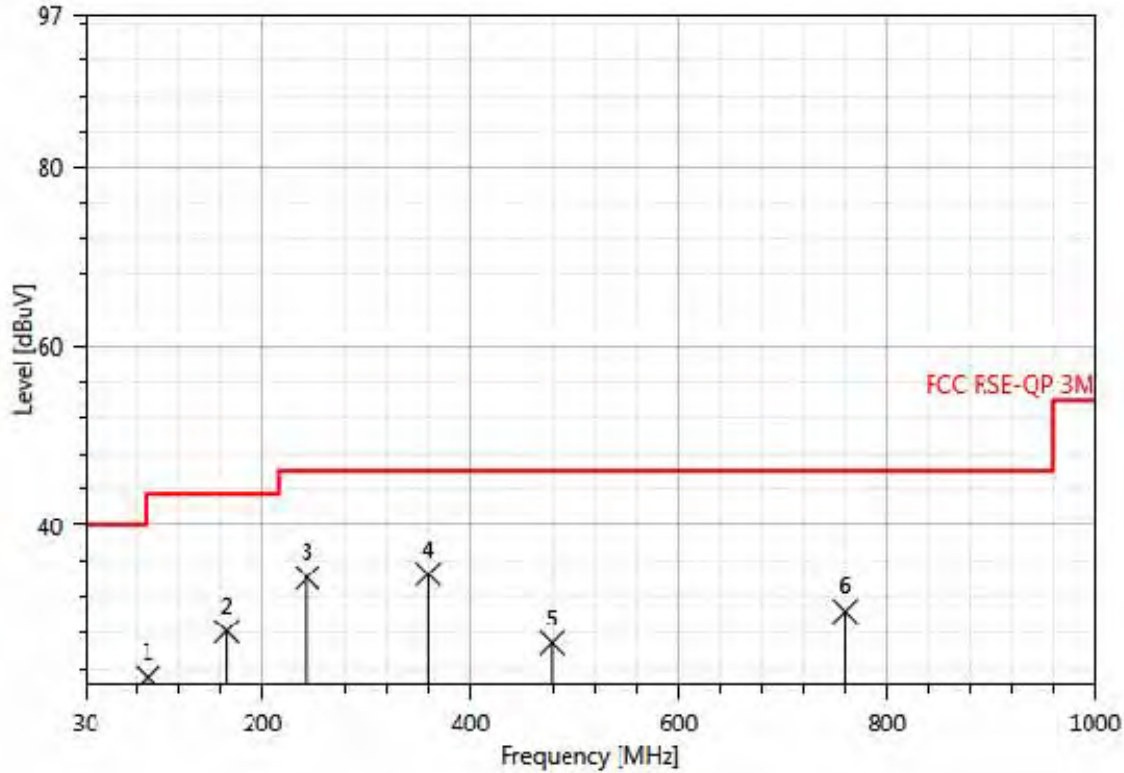
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Operation Mode :	802.11aB3	Test Date :	08/12/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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
90.14	S	Peak	23.05	36.77	-13.72	43.50	-20.45
165.80	S	Peak	28.18	35.57	-7.39	43.50	-15.32
243.40	S	Peak	34.18	42.21	-8.03	46.00	-11.82
359.80	S	Peak	34.57	39.37	-4.80	46.00	-11.43
478.14	S	Peak	26.86	29.30	-2.43	46.00	-19.14
760.41	S	Peak	30.42	27.47	2.95	46.00	-15.58

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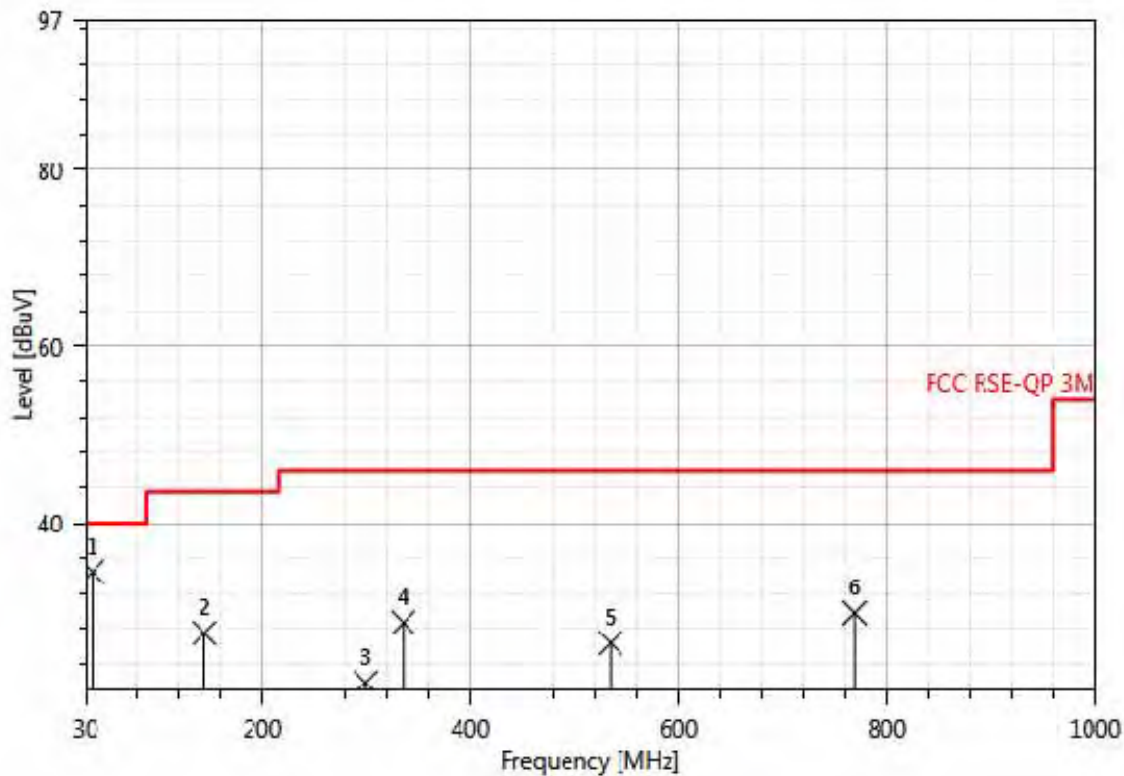
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
36.79	S	Peak	34.48	43.31	-8.84	40.00	-5.52
144.46	S	Peak	27.53	35.60	-8.07	43.50	-15.97
299.66	S	Peak	21.93	27.86	-5.93	46.00	-24.07
335.55	S	Peak	28.73	34.05	-5.32	46.00	-17.27
534.40	S	Peak	26.39	28.05	-1.67	46.00	-19.61
769.14	S	Peak	29.82	27.05	2.77	46.00	-16.18

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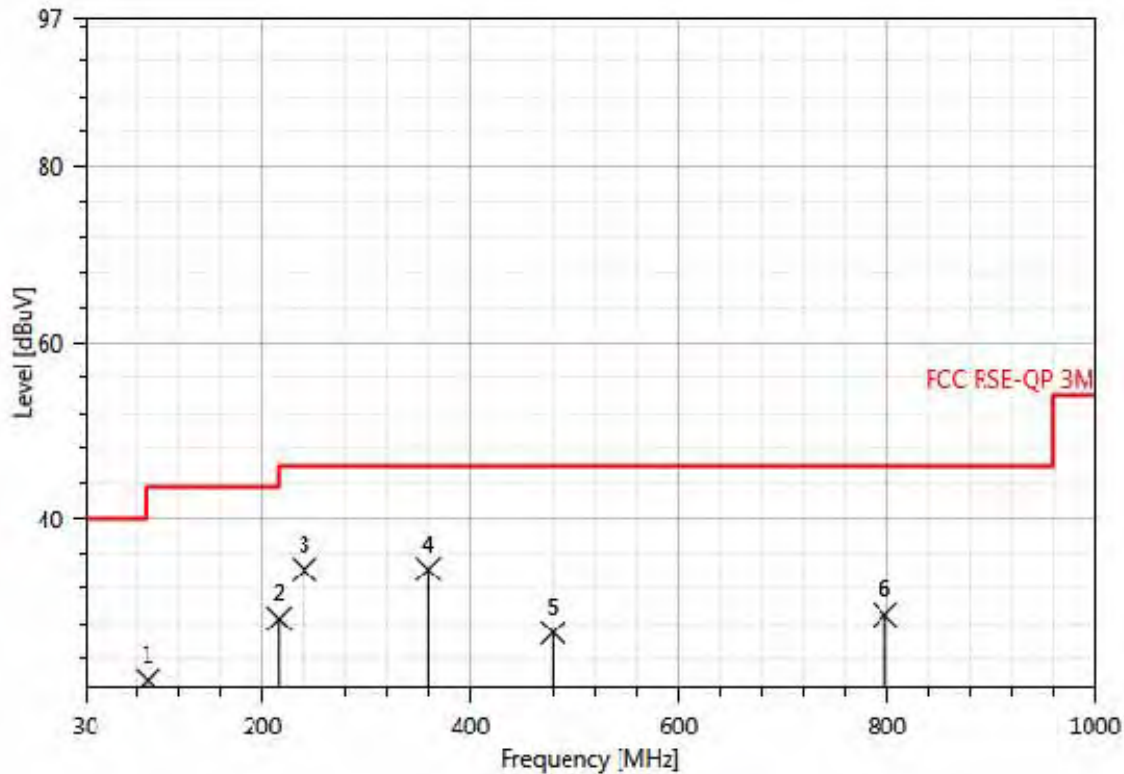
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Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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
90.14	S	Peak	21.50	35.22	-13.72	43.50	-22.00
216.24	S	Peak	28.52	37.95	-9.43	46.00	-17.48
240.49	S	Peak	34.11	42.15	-8.03	46.00	-11.89
359.80	S	Peak	34.17	38.96	-4.80	46.00	-11.83
479.11	S	Peak	26.93	29.33	-2.39	46.00	-19.07
798.24	S	Peak	28.99	25.88	3.11	46.00	-17.01

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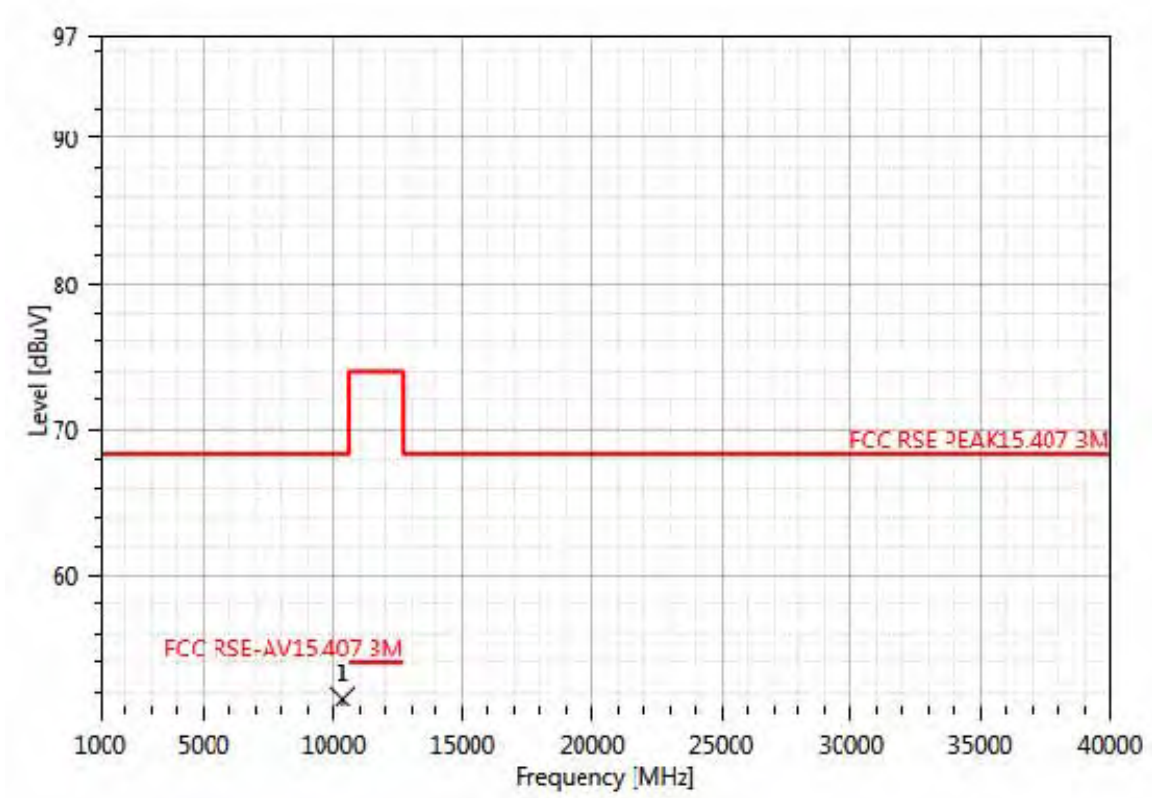
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
10360.00	H	Peak	51.55	33.26	18.29	68.30	-16.75

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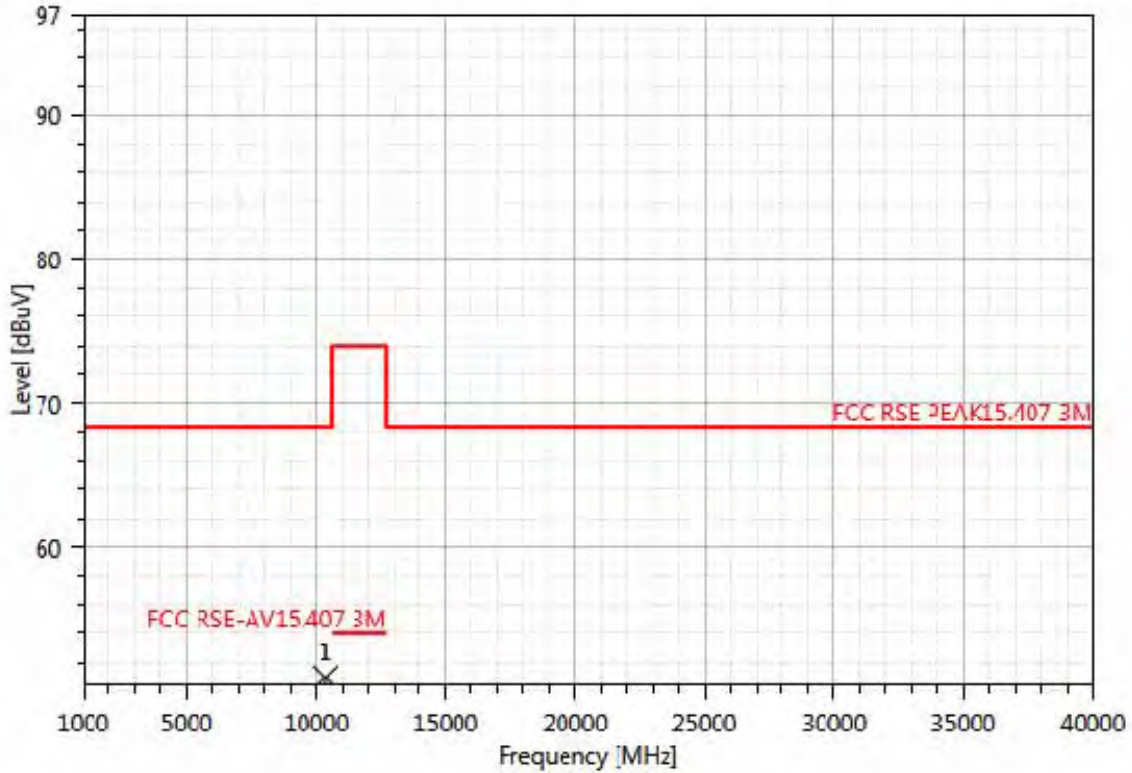
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Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
10360.00	H	Peak	50.95	32.66	18.29	68.30	-17.35

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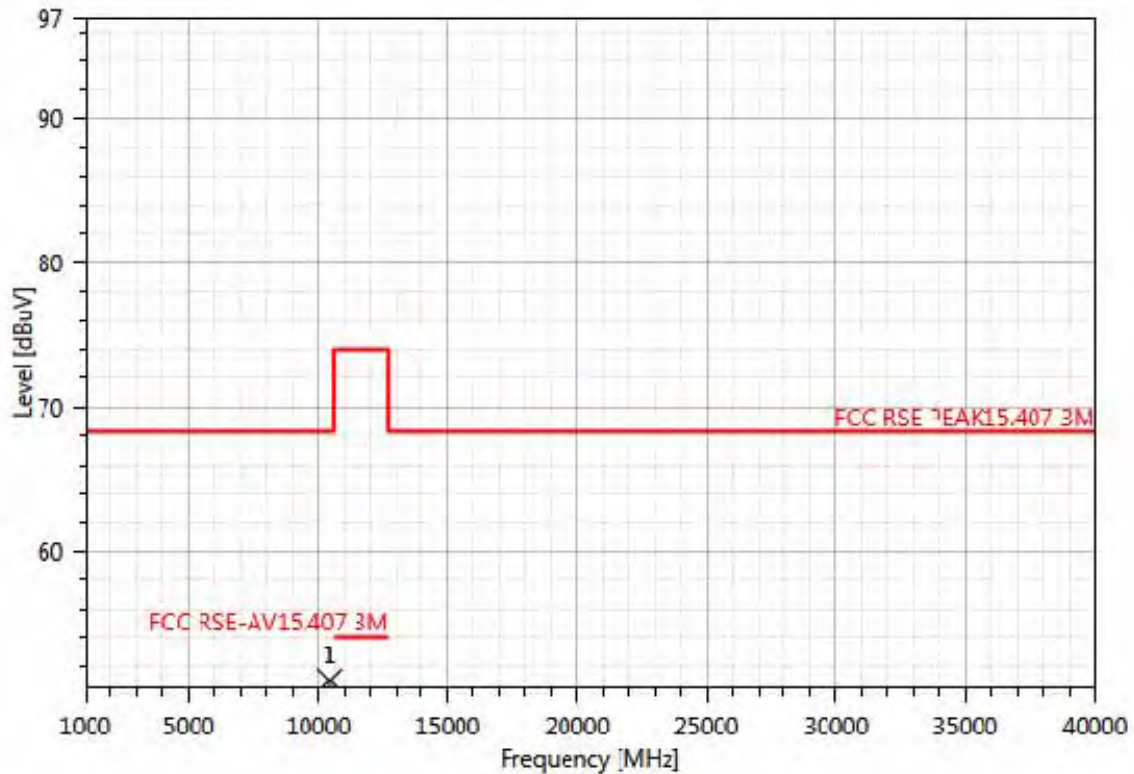
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Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
10440.00	H	Peak	51.05	32.37	18.68	68.30	-17.25

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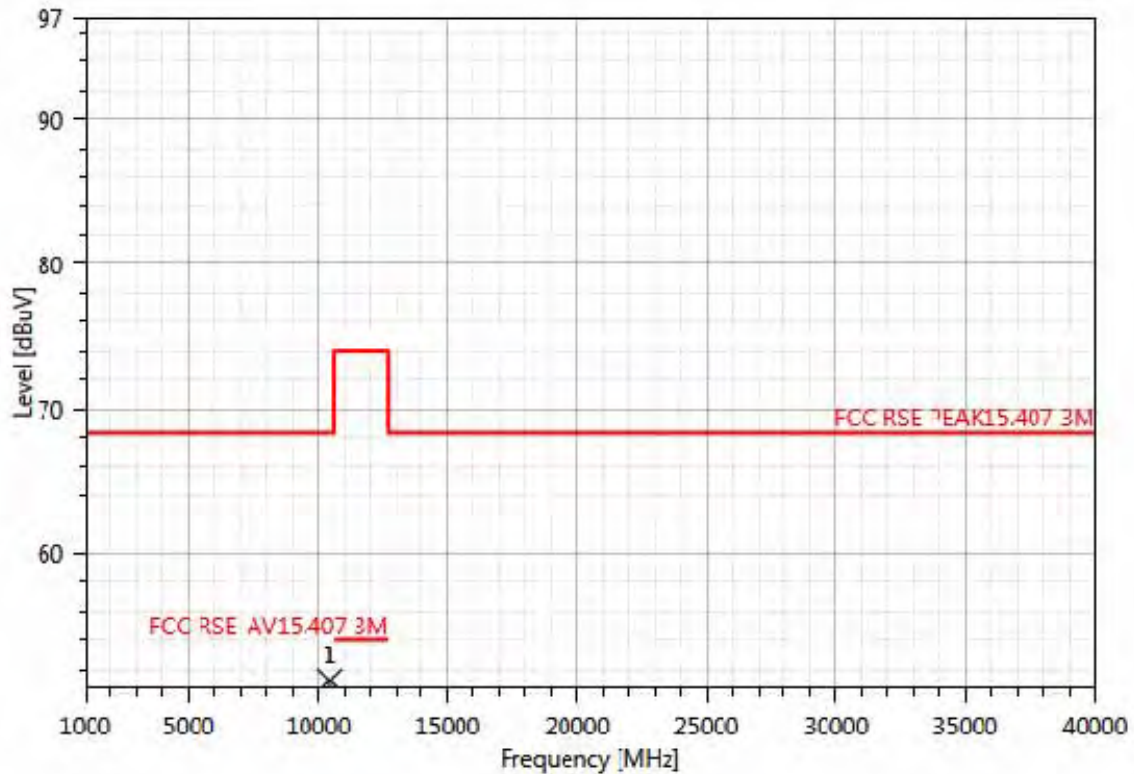
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Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
10440.00	H	Peak	51.22	32.54	18.68	68.30	-17.08

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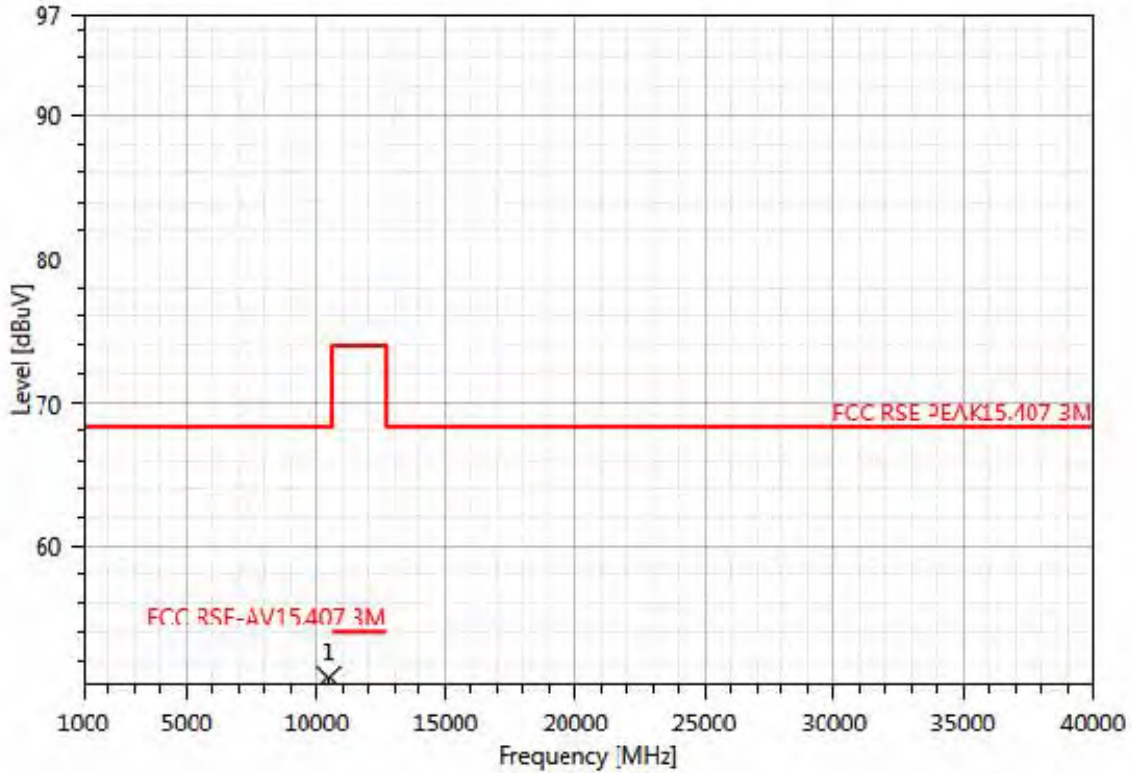
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Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
10480.00	H	Peak	50.88	32.59	18.29	68.30	-17.42

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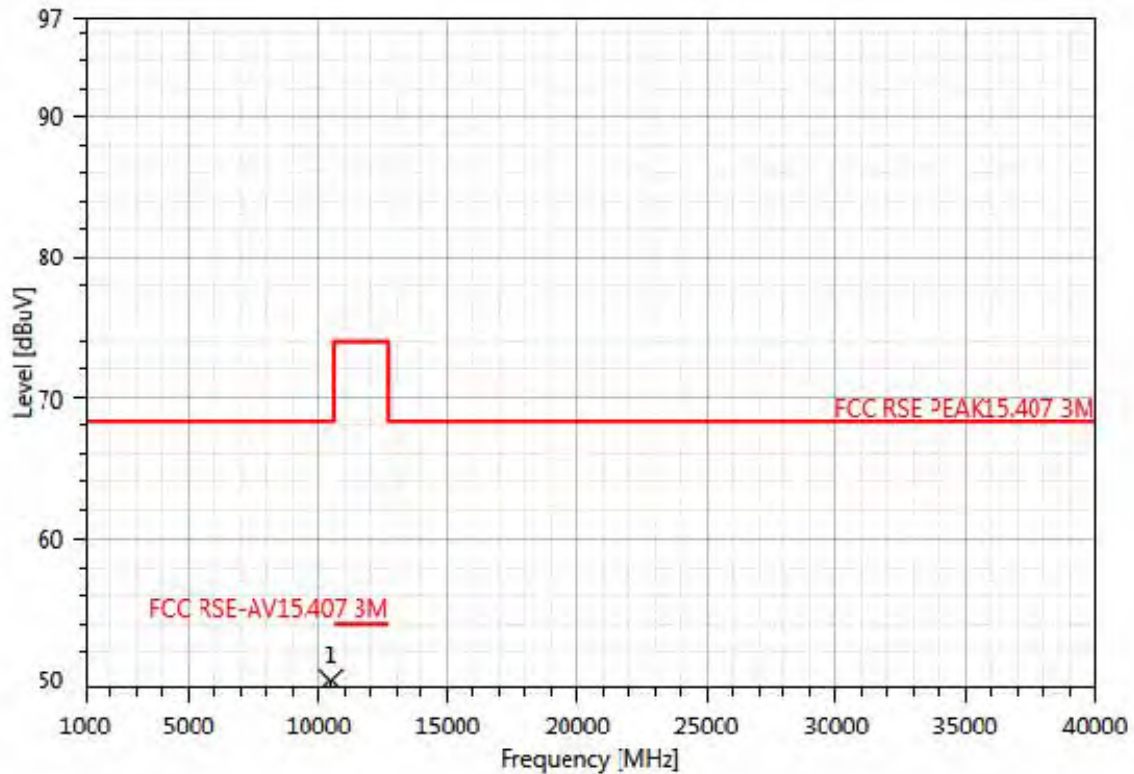
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Operation Mode :	802.11aB1	Test Date :	08/12/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
10480.00	H	Peak	49.94	31.65	18.29	68.30	-18.36

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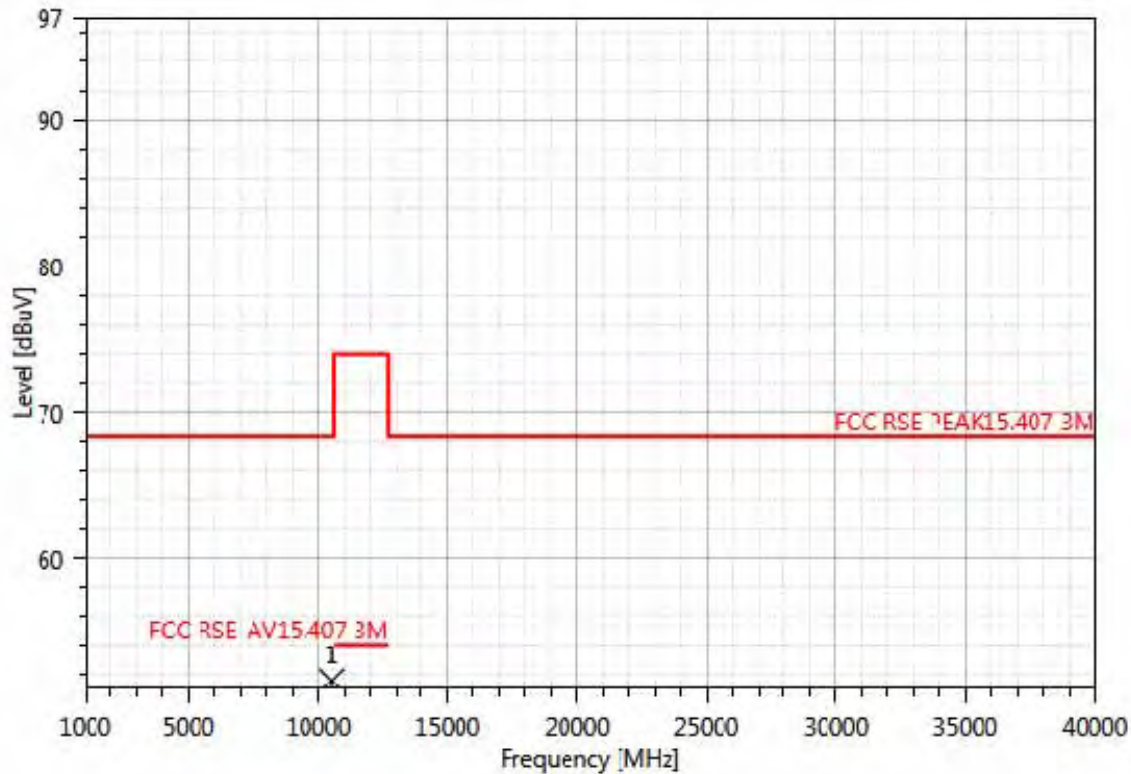
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
10520.00	H	Peak	51.62	32.25	19.37	68.30	-16.68

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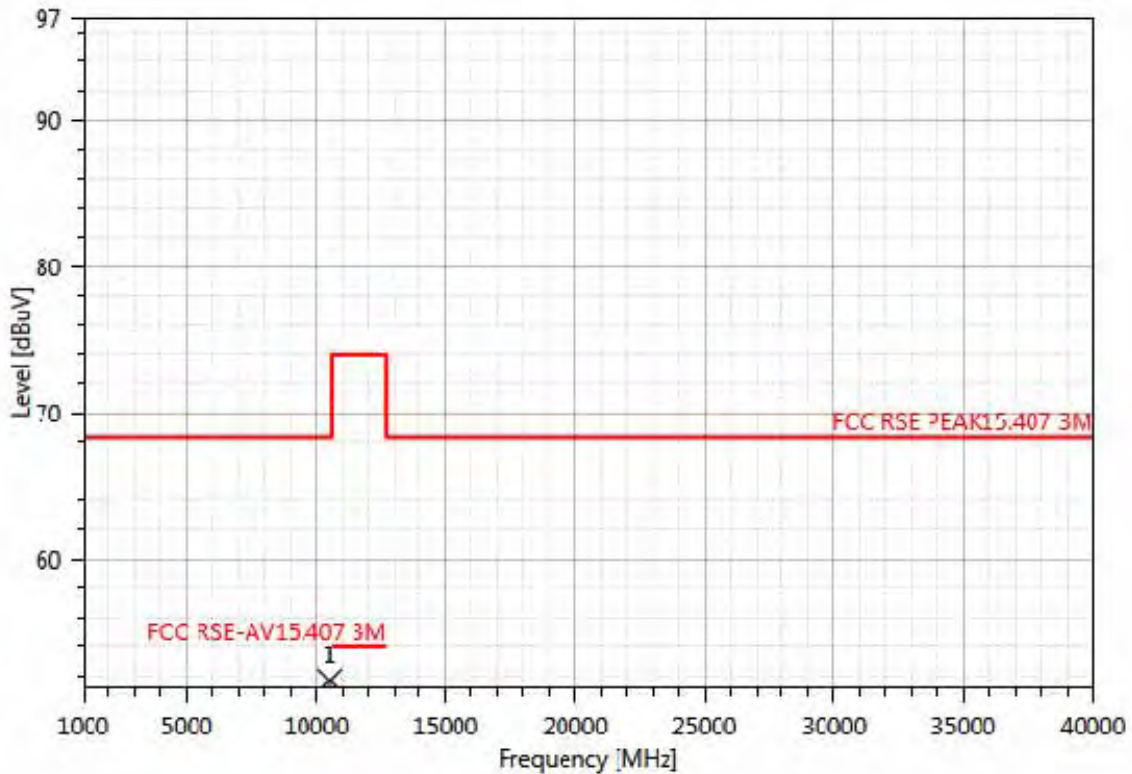
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Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10520.00	H	Peak	51.69	32.32	19.37	68.30	-16.61

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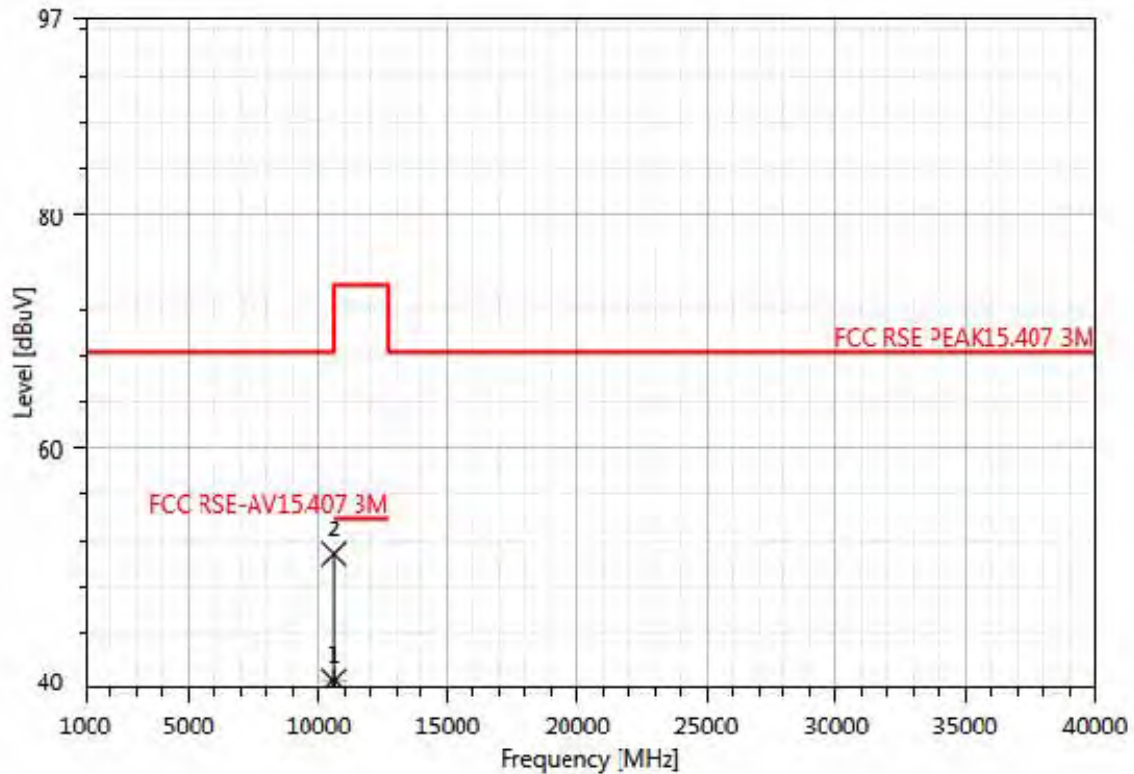
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Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10600.00	H	Average	40.02	21.11	18.91	54.00	-13.98
10600.00	H	Peak	50.90	31.99	18.91	74.00	-23.10

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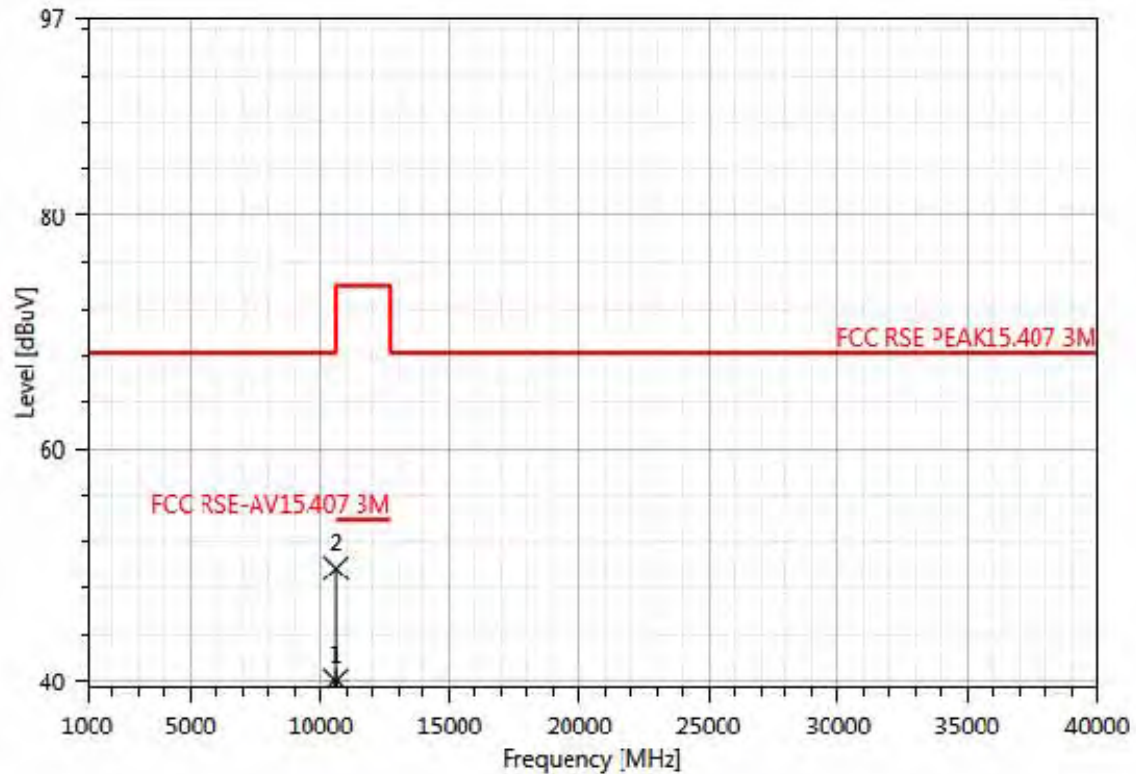
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Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10600.00	H	Average	40.14	21.23	18.91	54.00	-13.86
10600.00	H	Peak	49.76	30.85	18.91	74.00	-24.24

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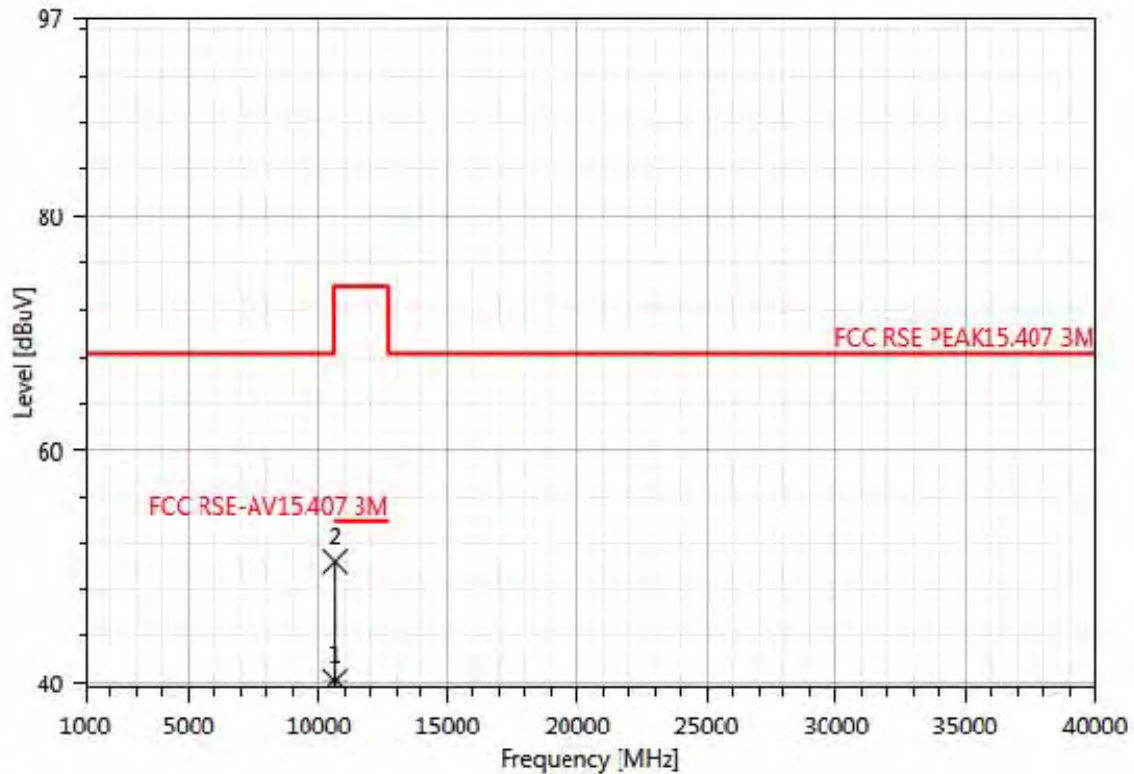
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Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10640.00	H	Average	40.27	21.09	19.18	54.00	-13.73
10640.00	H	Peak	50.48	31.30	19.18	74.00	-23.52

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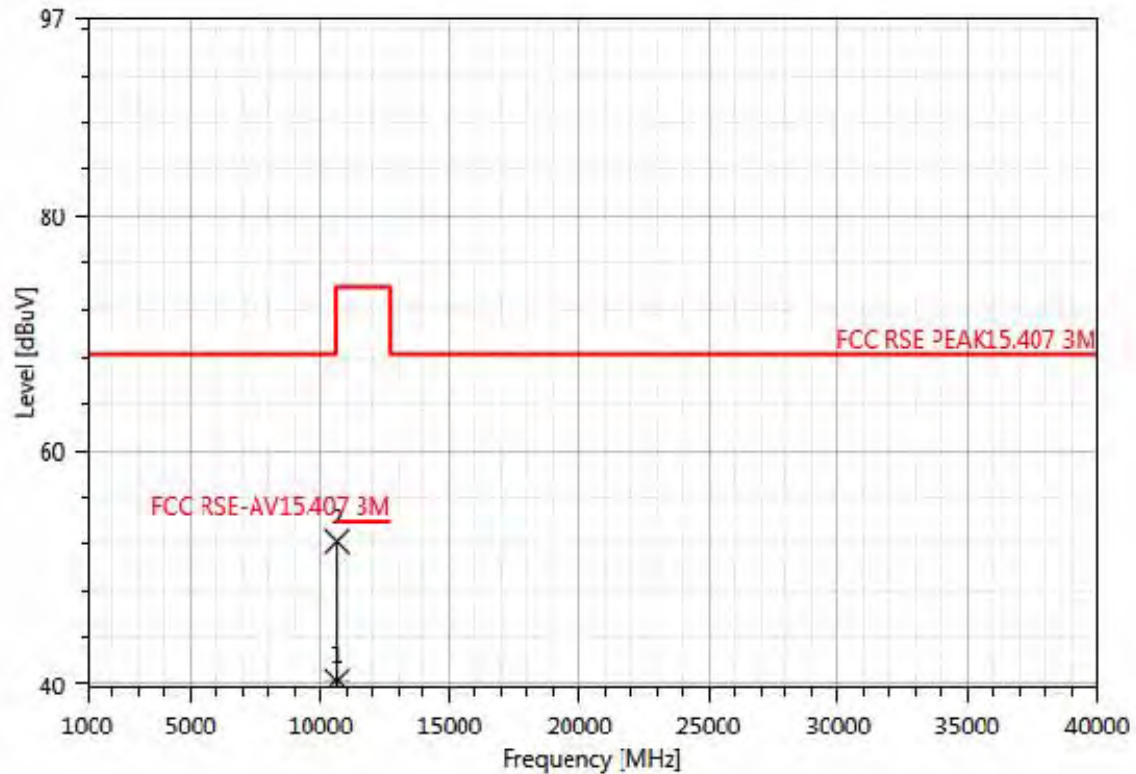
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Operation Mode :	802.11aB2	Test Date :	08/12/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10640.00	H	Average	40.36	21.18	19.18	54.00	-13.64
10640.00	H	Peak	52.21	33.03	19.18	74.00	-21.79

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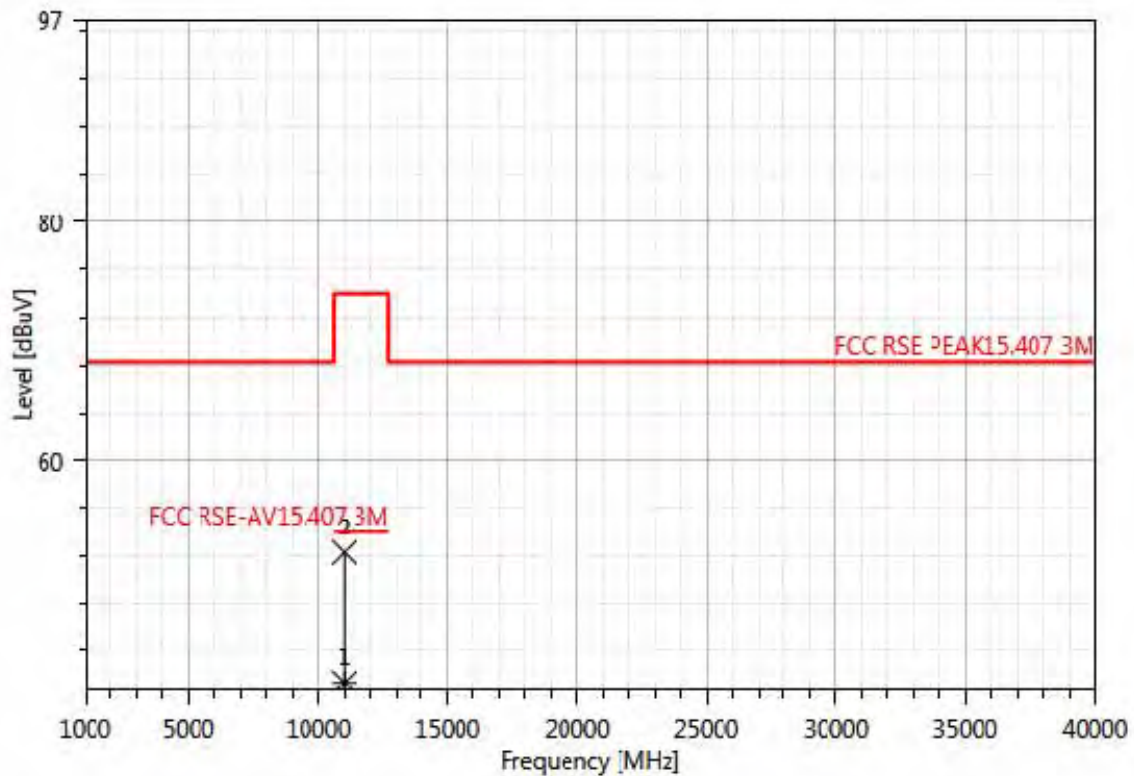
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	08/12/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
11000.00	H	Average	41.34	21.17	20.17	54.00	-12.66
11000.00	H	Peak	52.29	32.12	20.17	74.00	-21.71

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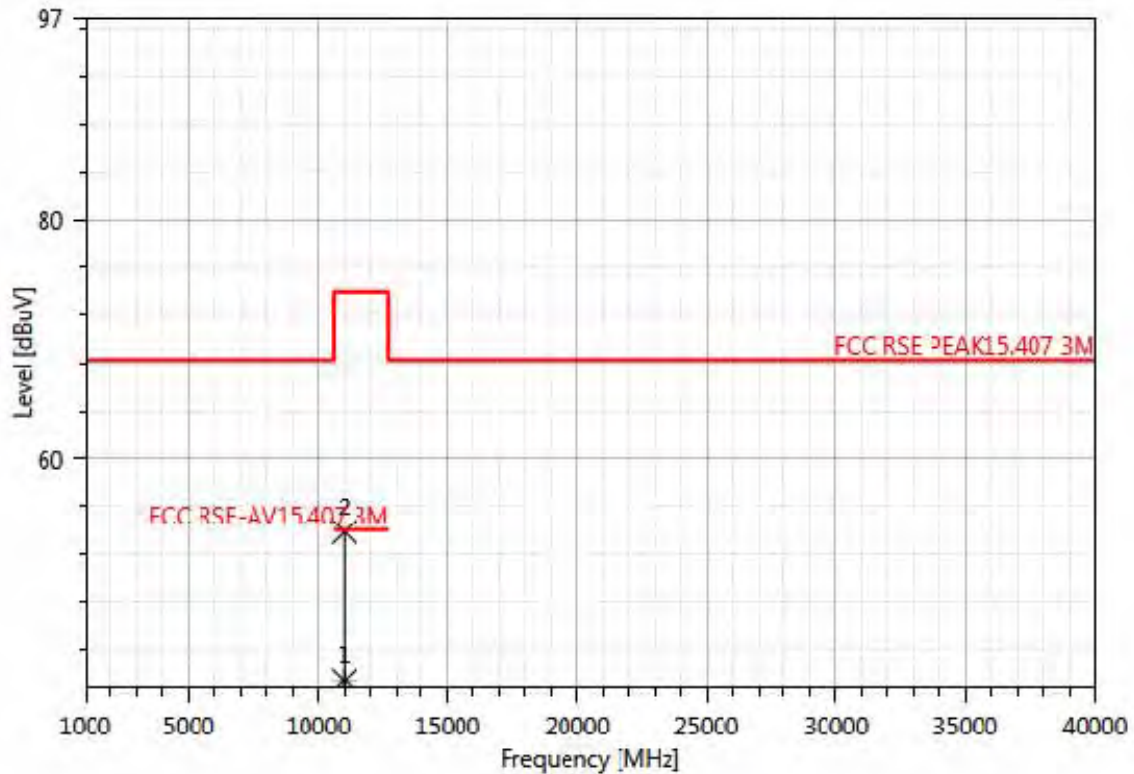
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Operation Mode :	802.11aB3	Test Date :	08/12/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11000.00	H	Average	41.37	21.20	20.17	54.00	-12.63
11000.00	H	Peak	53.84	33.67	20.17	74.00	-20.16

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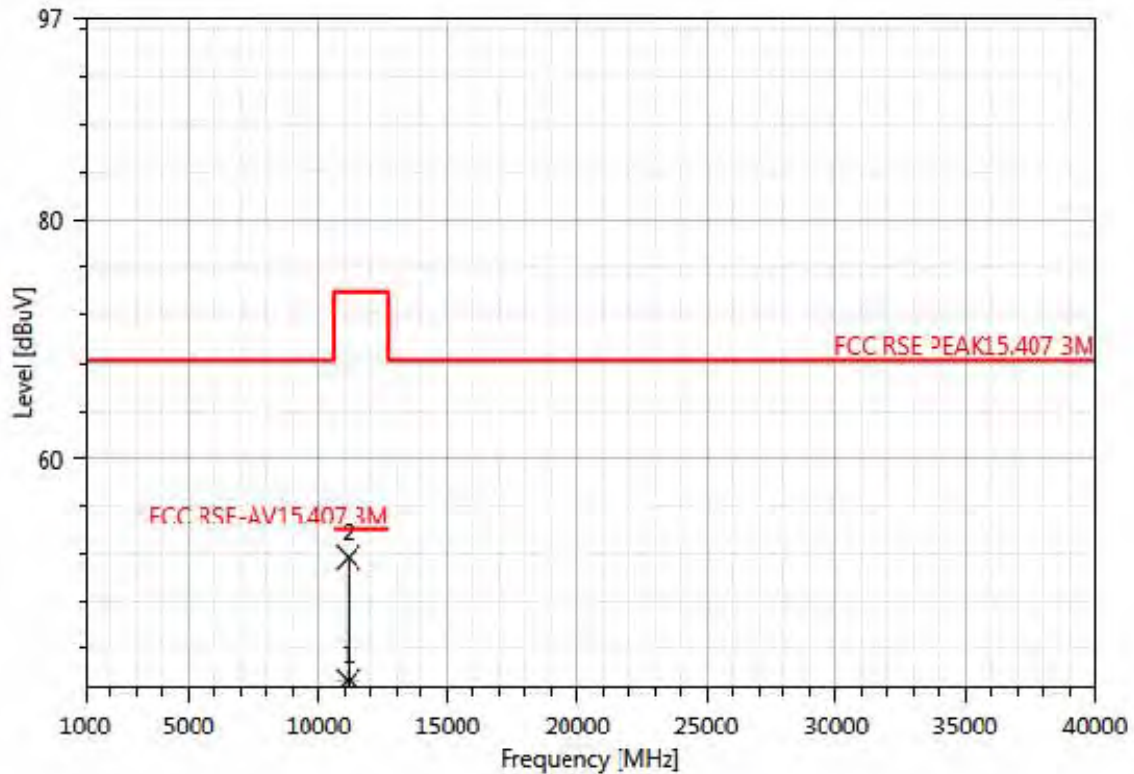
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Operation Mode :	802.11aB3	Test Date :	08/12/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11160.00	H	Average	41.36	20.91	20.45	54.00	-12.64
11160.00	H	Peak	51.71	31.26	20.45	74.00	-22.29

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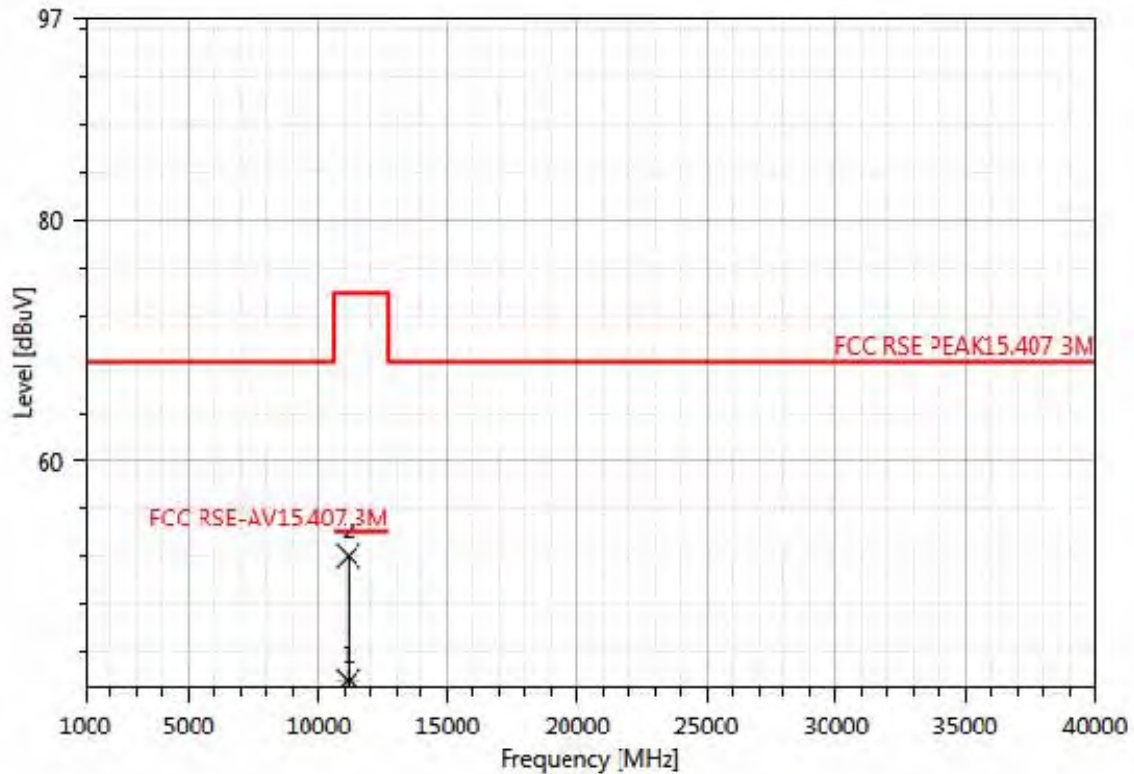
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Operation Mode :	802.11aB3	Test Date :	08/12/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11160.00	H	Average	41.62	21.17	20.45	54.00	-12.38
11160.00	H	Peak	52.03	31.59	20.45	74.00	-21.97

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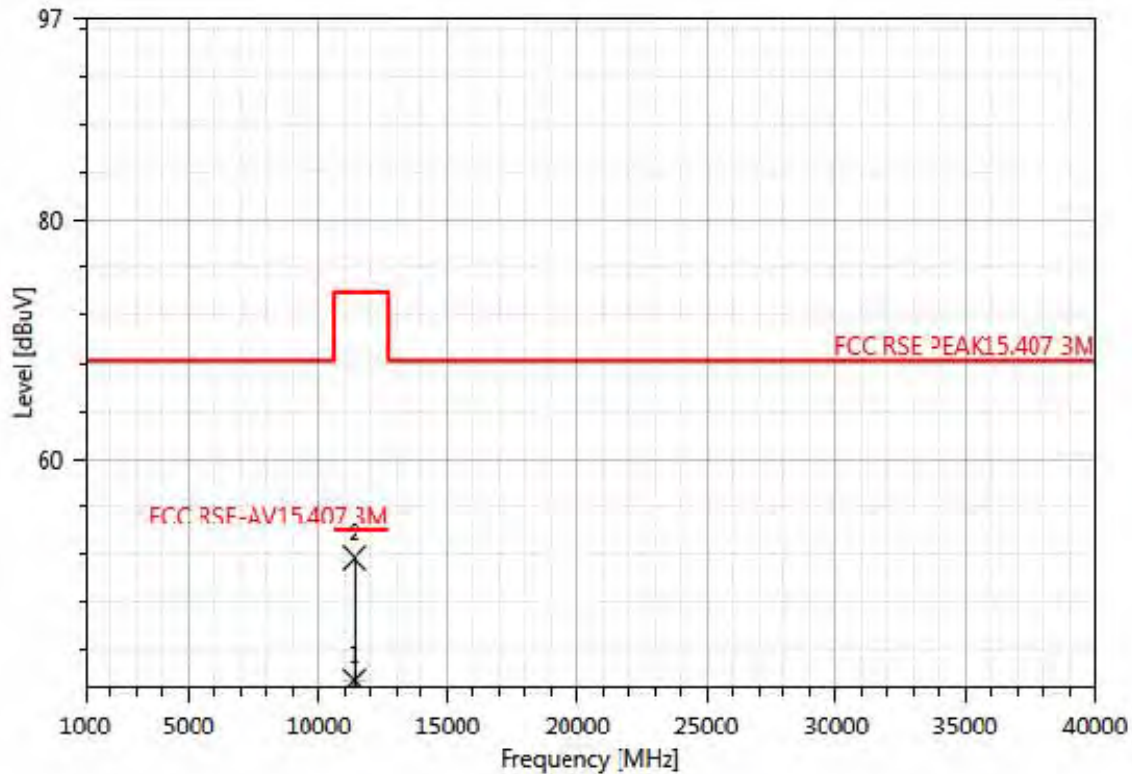
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Operation Mode :	802.11aB3	Test Date :	08/12/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11400.00	H	Average	41.42	20.86	20.56	54.00	-12.58
11400.00	H	Peak	51.71	31.15	20.56	74.00	-22.29

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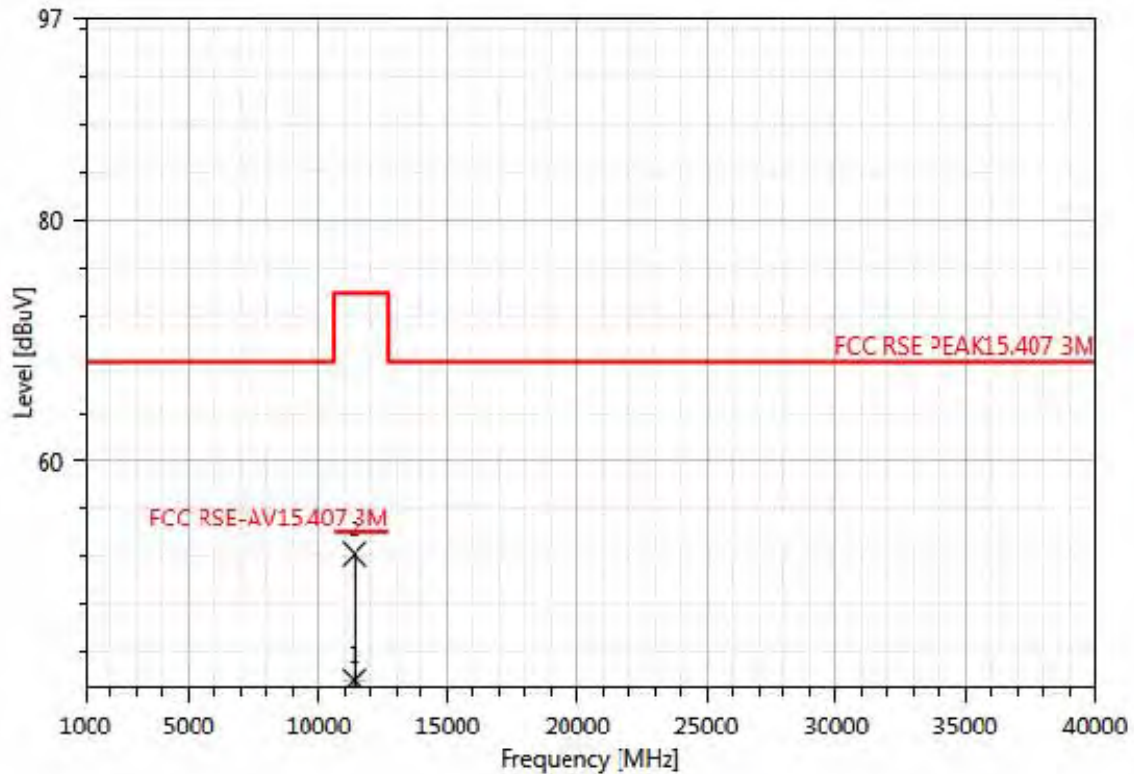
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Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11400.00	H	Average	41.62	21.06	20.56	54.00	-12.38
11400.00	H	Peak	52.19	31.64	20.56	74.00	-21.81

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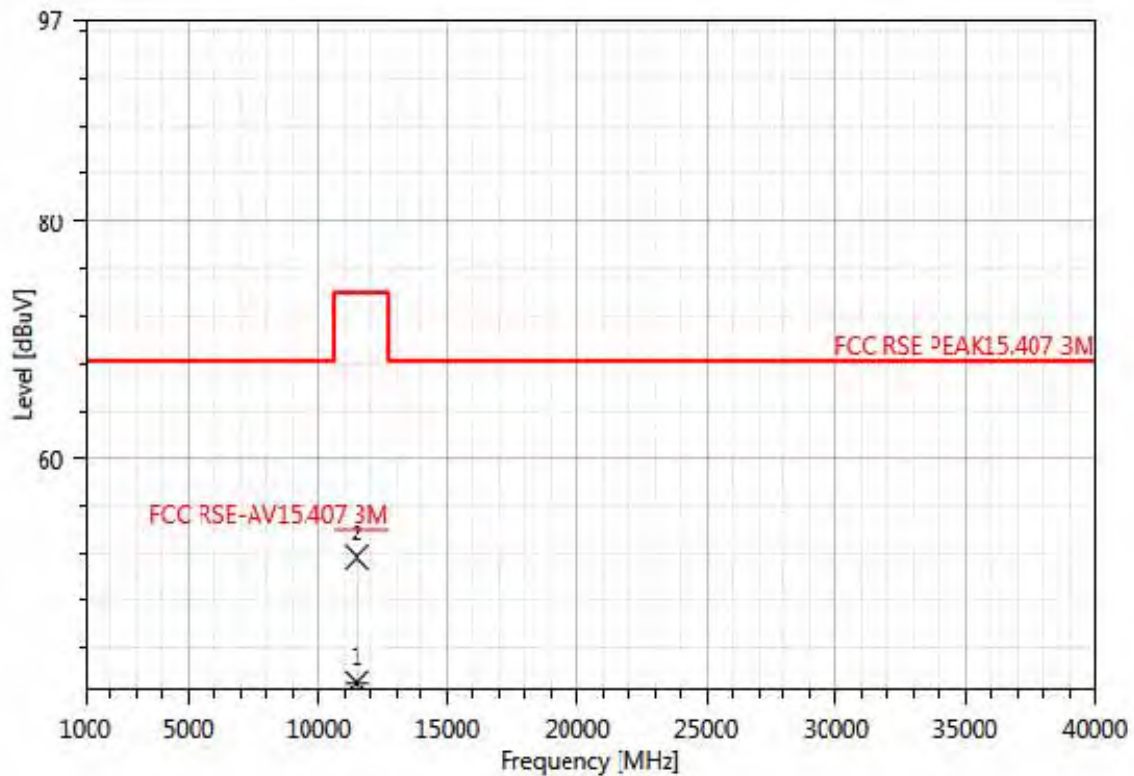
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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	41.11	20.69	20.42	54.00	-12.89
11490.00	H	Peak	51.69	31.27	20.42	74.00	-22.31

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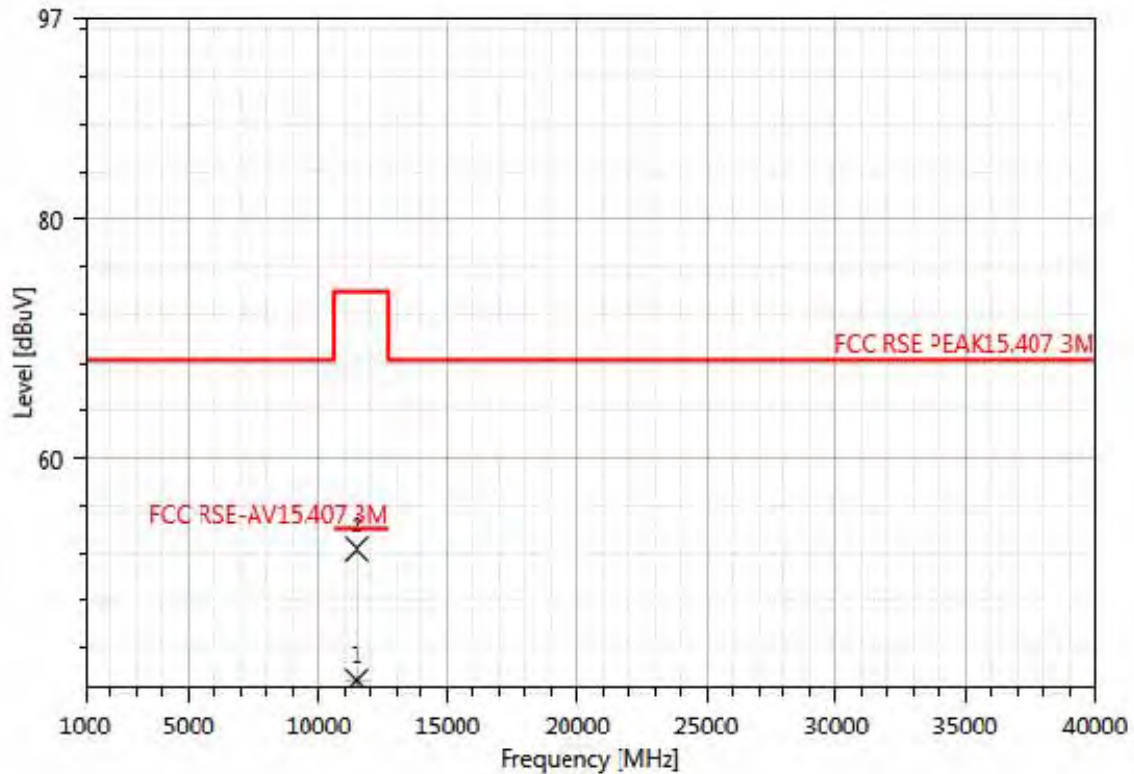
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Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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	41.31	20.89	20.42	54.00	-12.69
11490.00	H	Peak	52.35	31.93	20.42	74.00	-21.65

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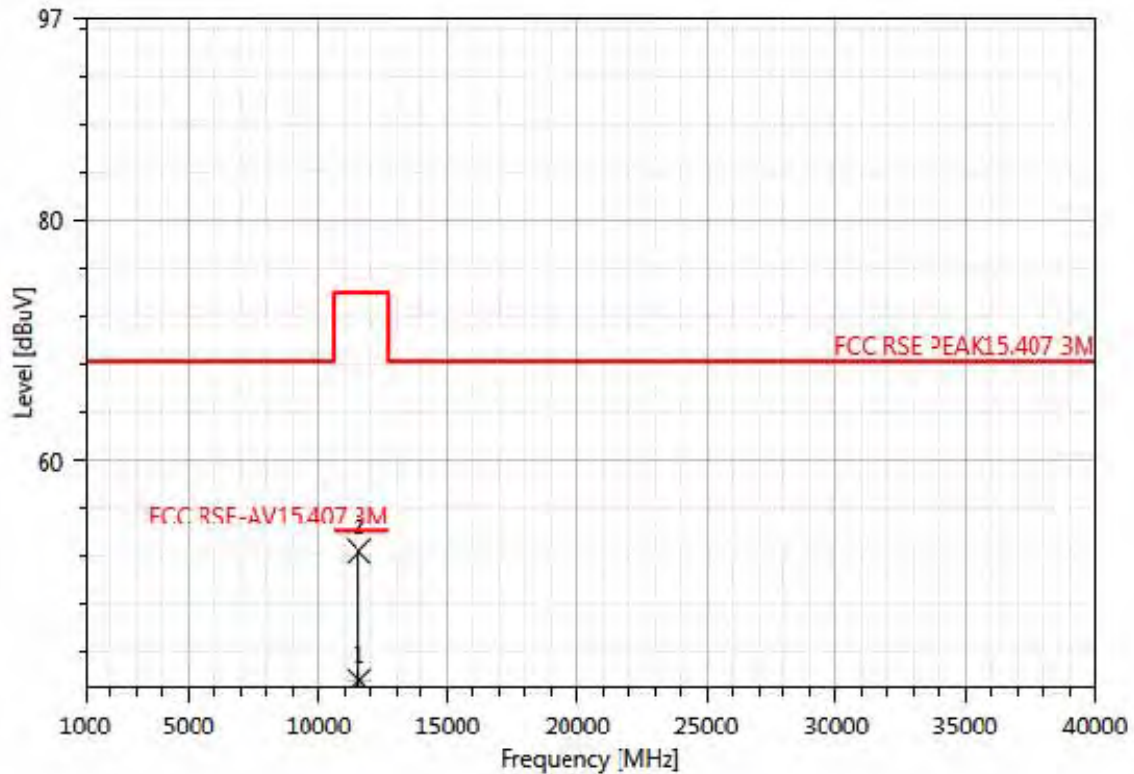
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Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11570.00	H	Average	41.54	20.95	20.59	54.00	-12.46
11570.00	H	Peak	52.36	31.78	20.59	74.00	-21.64

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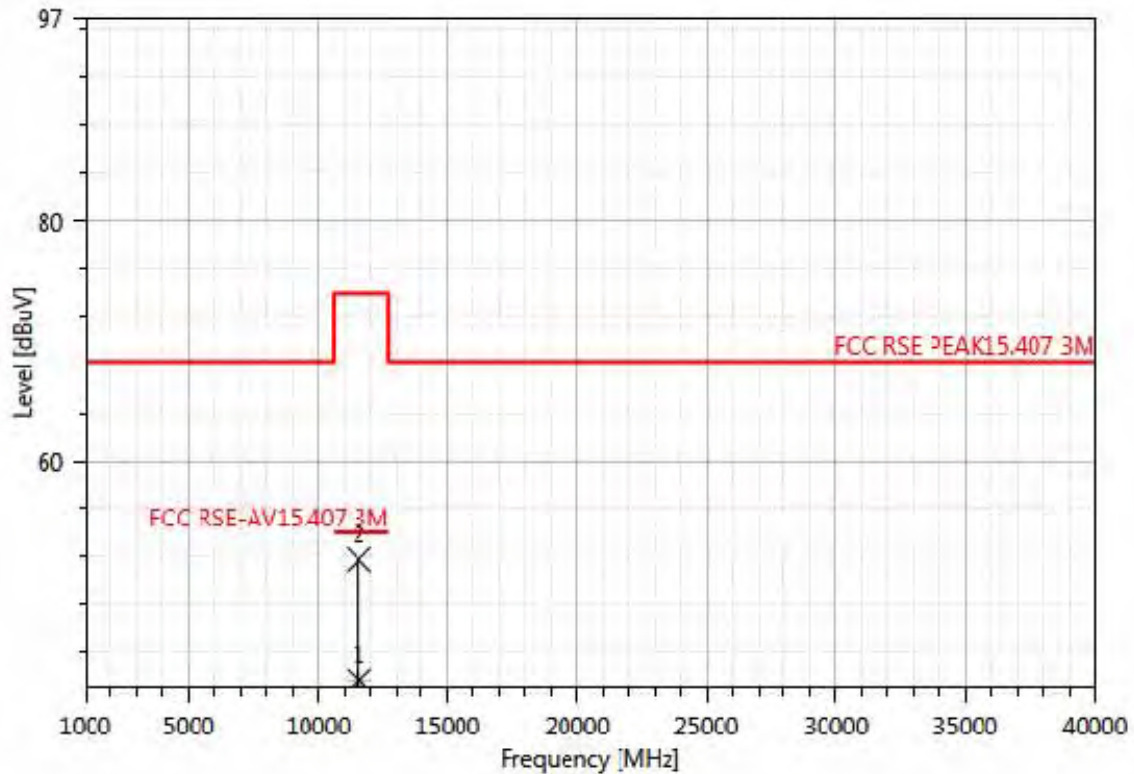
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Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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	
11570.00	H	Average	41.65	21.07	20.59	54.00	-12.35
11570.00	H	Peak	51.77	31.18	20.59	74.00	-22.23

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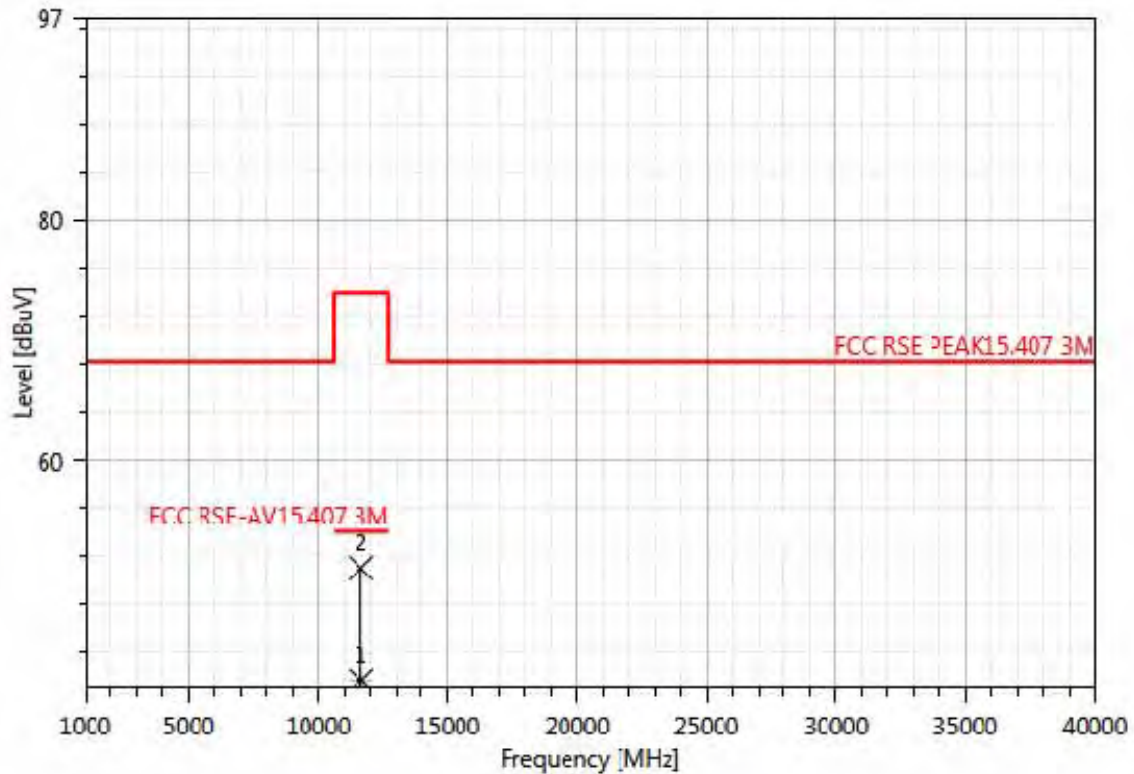
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Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11650.00	H	Average	41.55	21.12	20.43	54.00	-12.45
11650.00	H	Peak	50.96	30.53	20.43	74.00	-23.04

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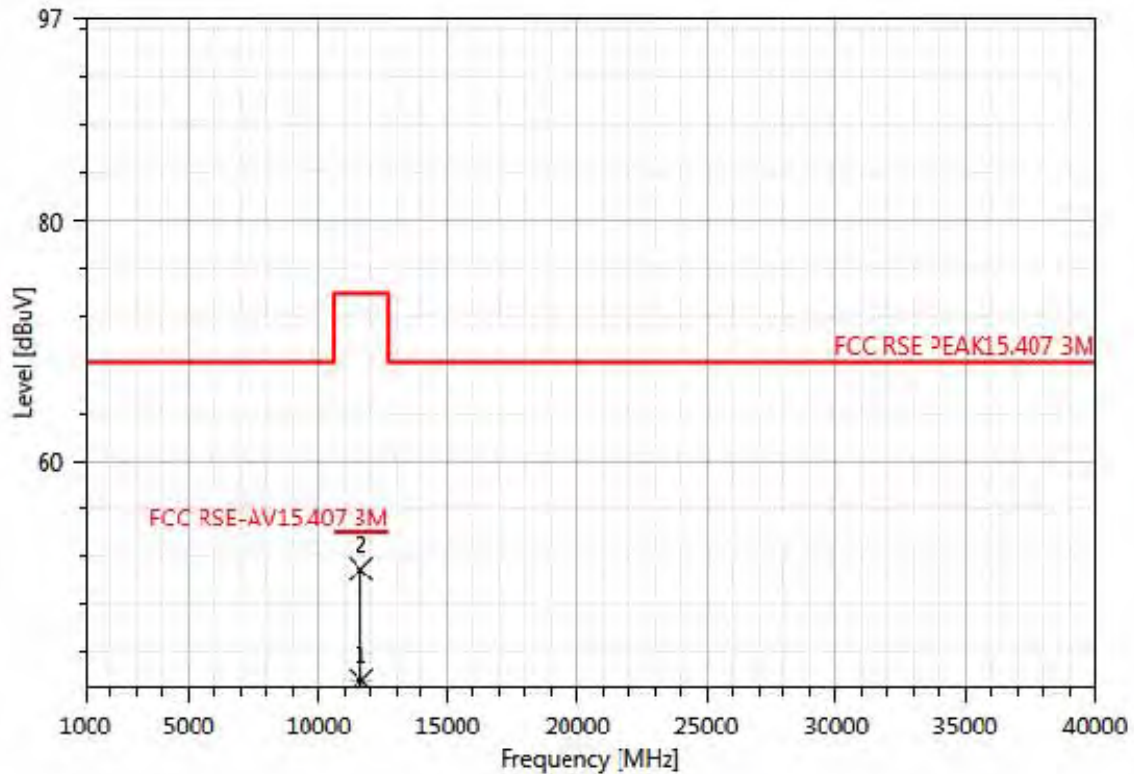
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Operation Mode :	802.11aB4	Test Date :	08/12/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11650.00	H	Average	41.65	21.22	20.43	54.00	-12.35
11650.00	H	Peak	50.95	30.52	20.43	74.00	-23.05

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台灣檢驗科技股份有限公司

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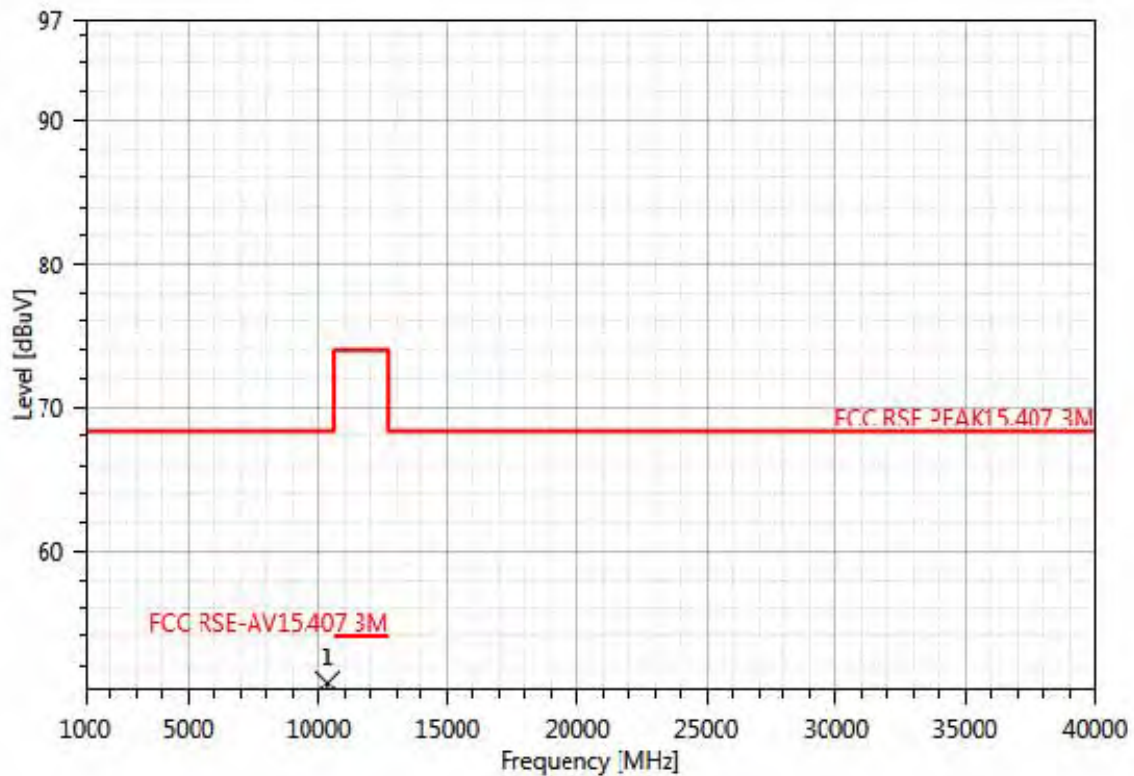
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	08/12/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
10360.00	H	Peak	50.83	32.54	18.29	68.30	-17.47

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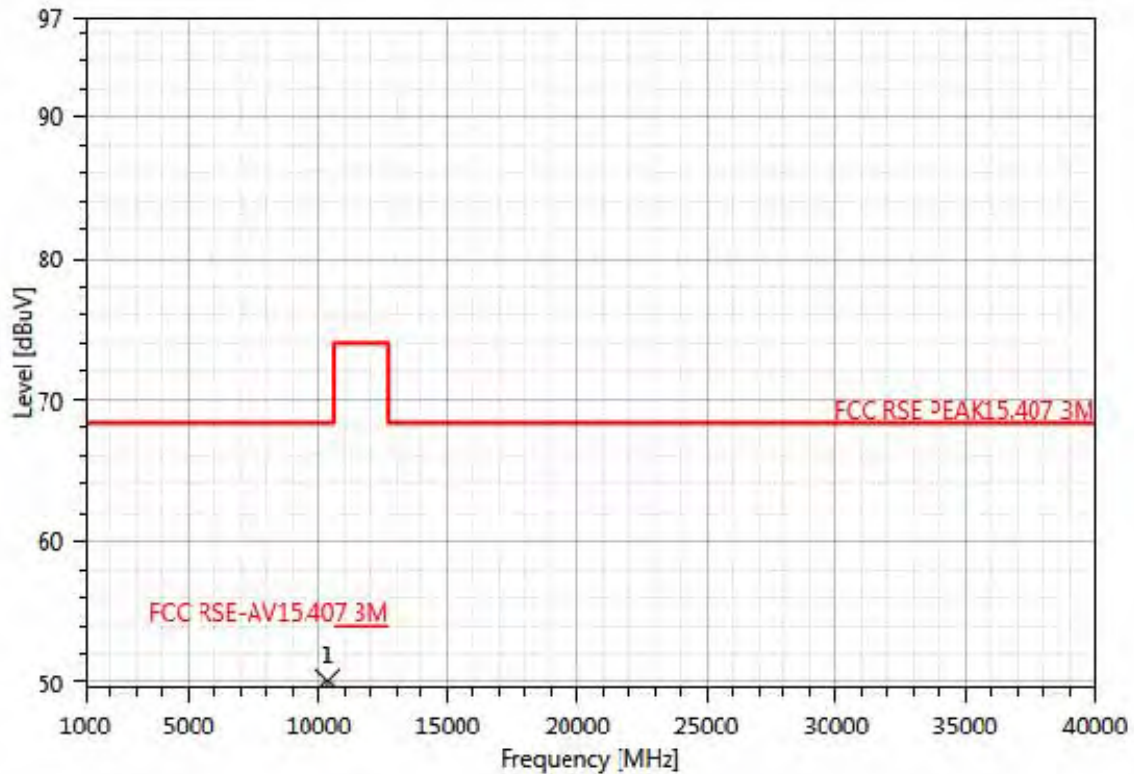
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Operation Mode :	802.11n20B1	Test Date :	08/12/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
10360.00	H	Peak	50.15	31.86	18.29	68.30	-18.15

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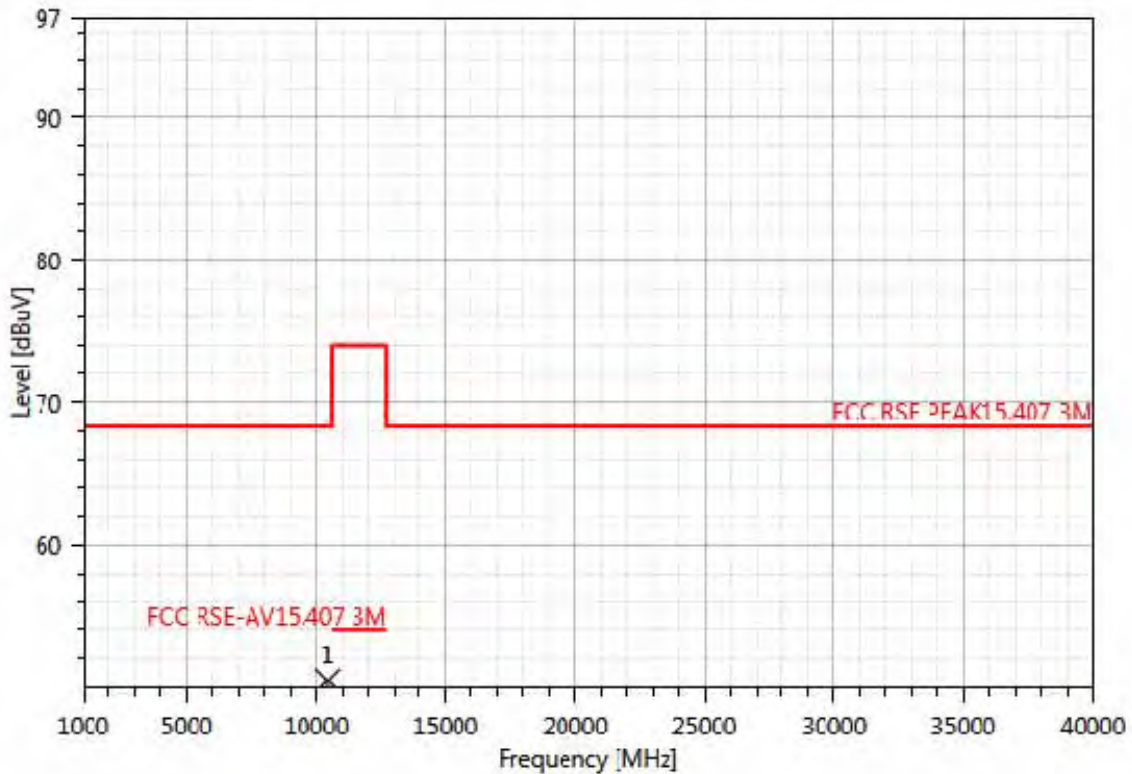
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Operation Mode : 802.11n20B1 Test Date : 08/12/2016
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



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
10440.00	H	Peak	50.49	31.80	18.68	68.30	-17.81

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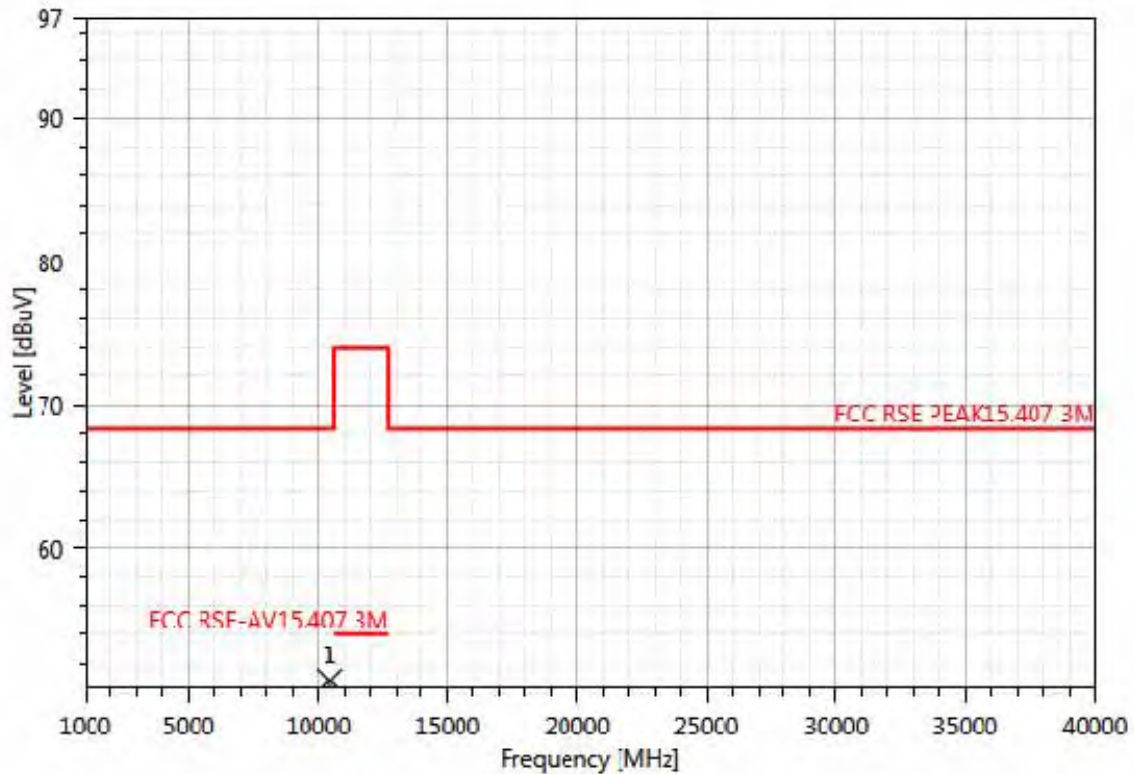
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Operation Mode :	802.11n20B1	Test Date :	08/12/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
10440.00	H	Peak	50.79	32.10	18.68	68.30	-17.51

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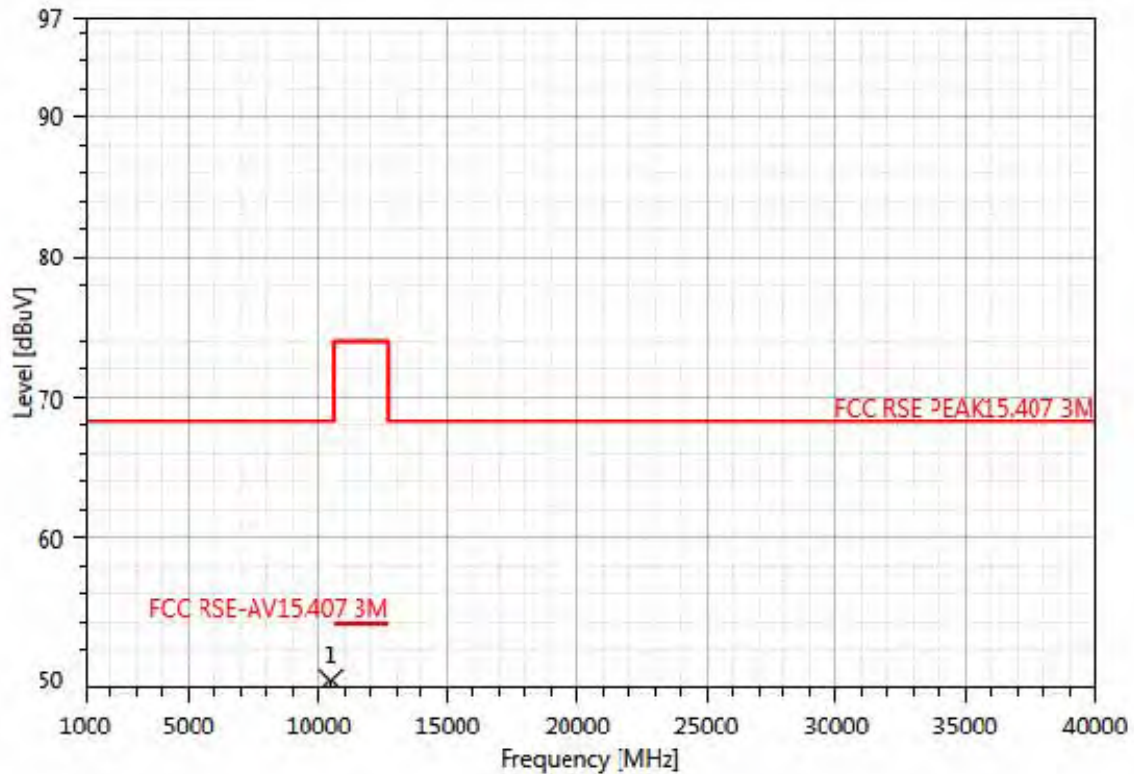
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Operation Mode :	802.11n20B1	Test Date :	08/12/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



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
10480.00	H	Peak	49.90	31.61	18.29	68.30	-18.40

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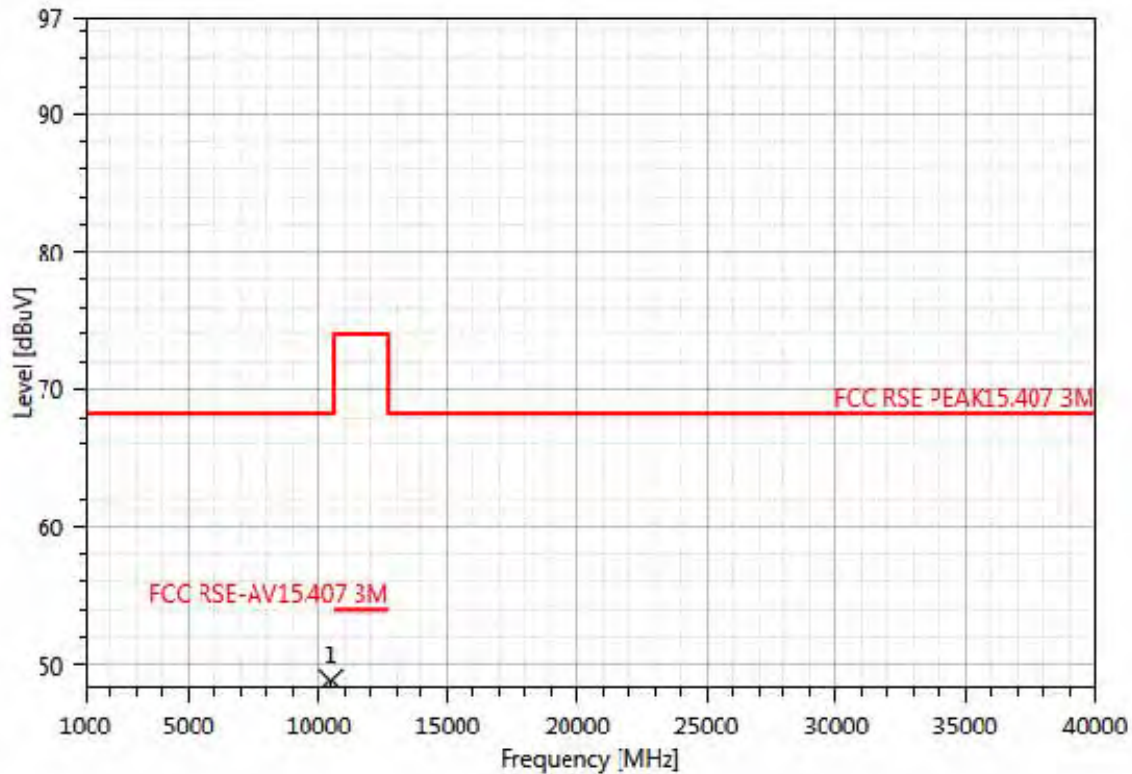
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Operation Mode :	802.11n20B1	Test Date :	08/12/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
10480.00	H	Peak	48.85	30.56	18.29	68.30	-19.45

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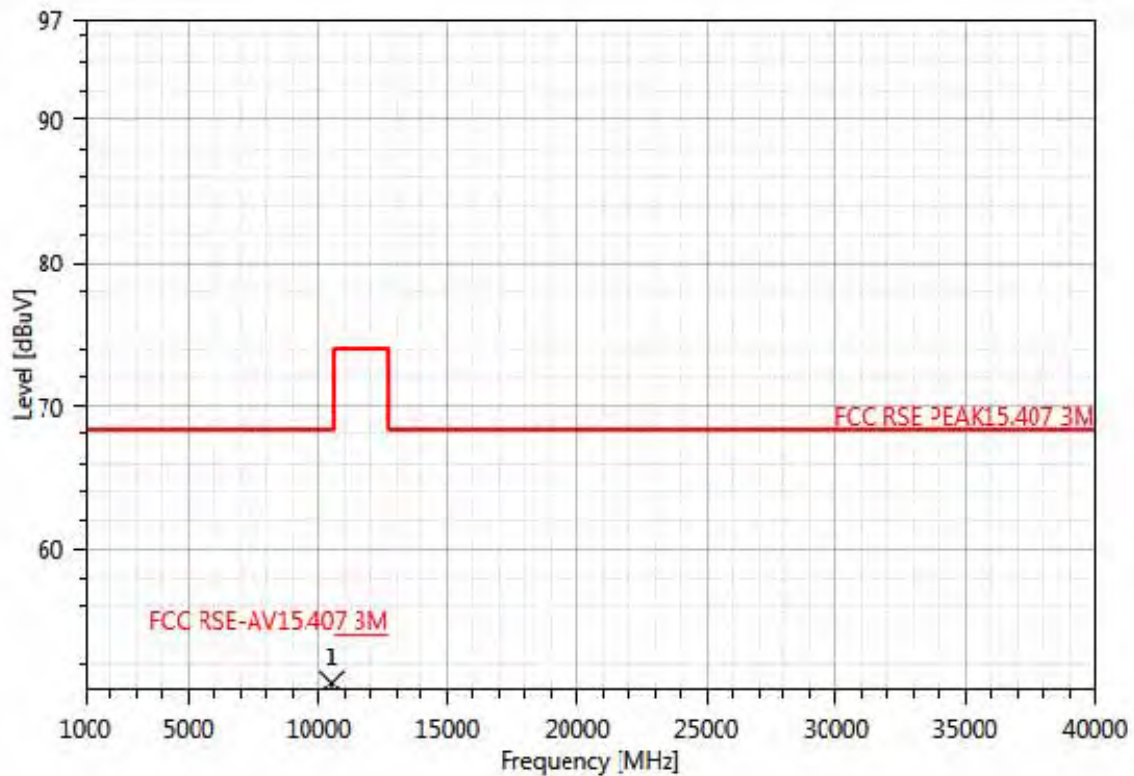
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	08/12/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
10520.00	H	Peak	50.67	31.29	19.37	68.30	-17.63

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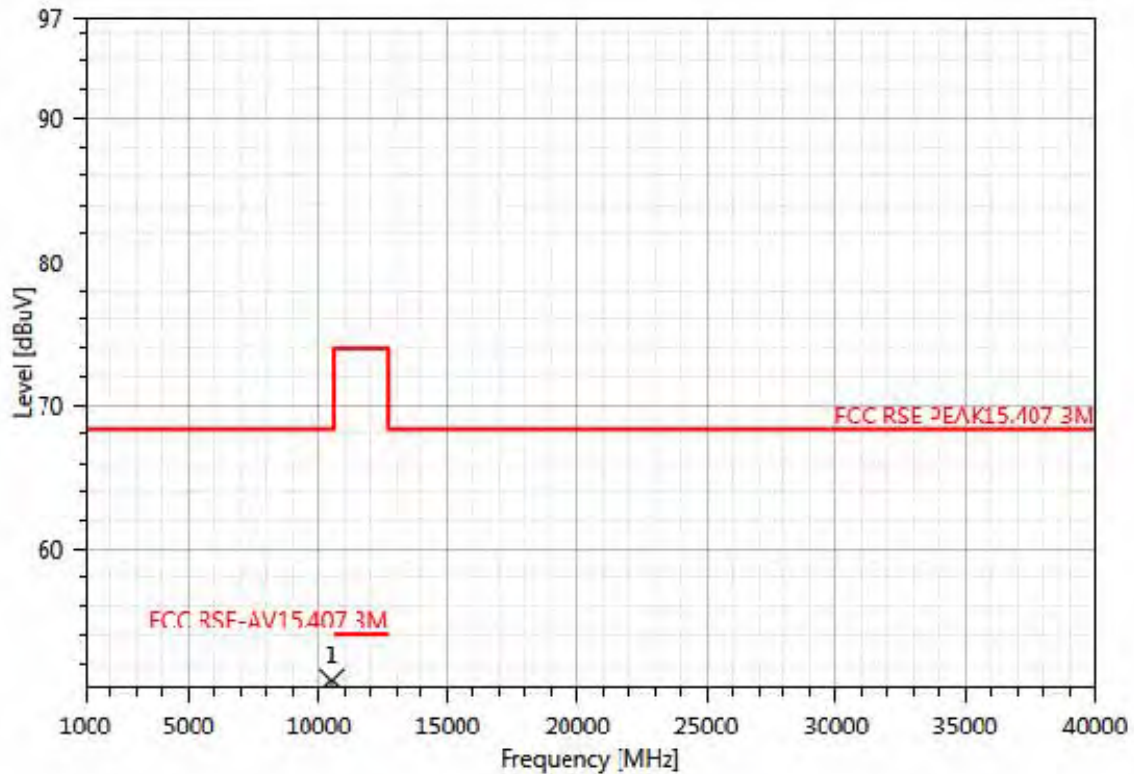
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Operation Mode :	802.11n20B2	Test Date :	08/12/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
10520.00	H	Peak	50.85	31.48	19.37	68.30	-17.45

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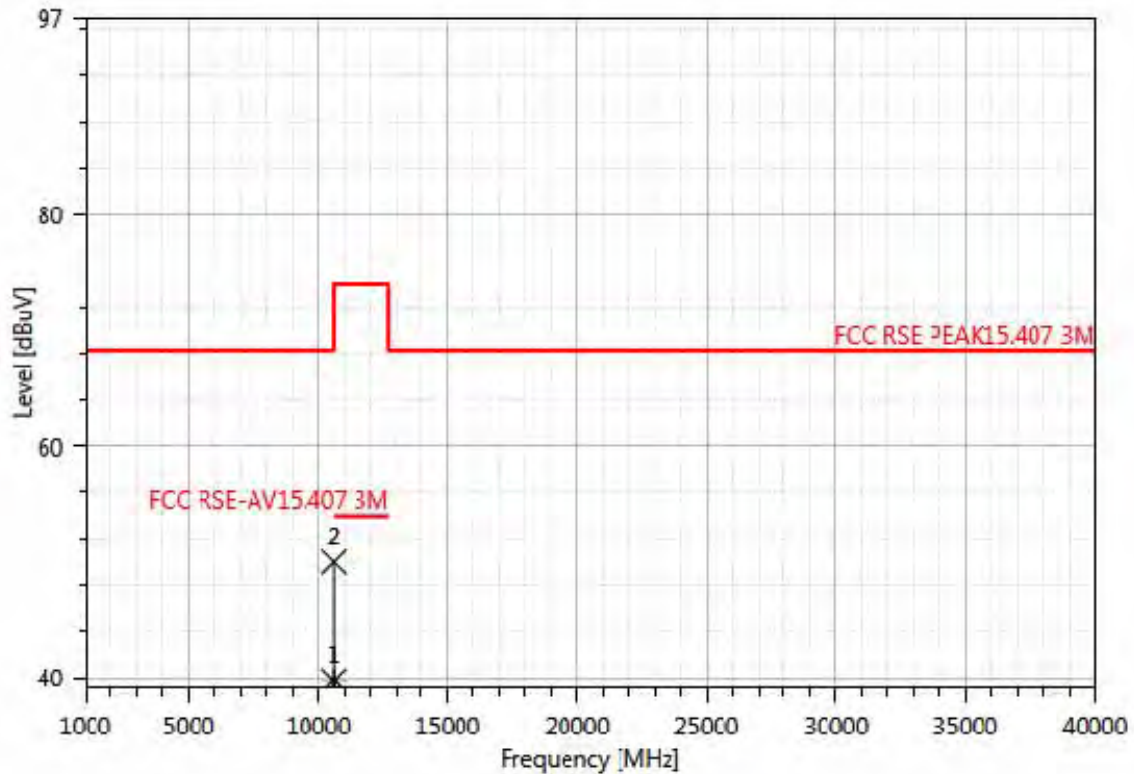
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Operation Mode :	802.11n20B2	Test Date :	08/12/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10600.00	H	Average	39.78	20.87	18.91	54.00	-14.22
10600.00	H	Peak	50.06	31.15	18.91	74.00	-23.94

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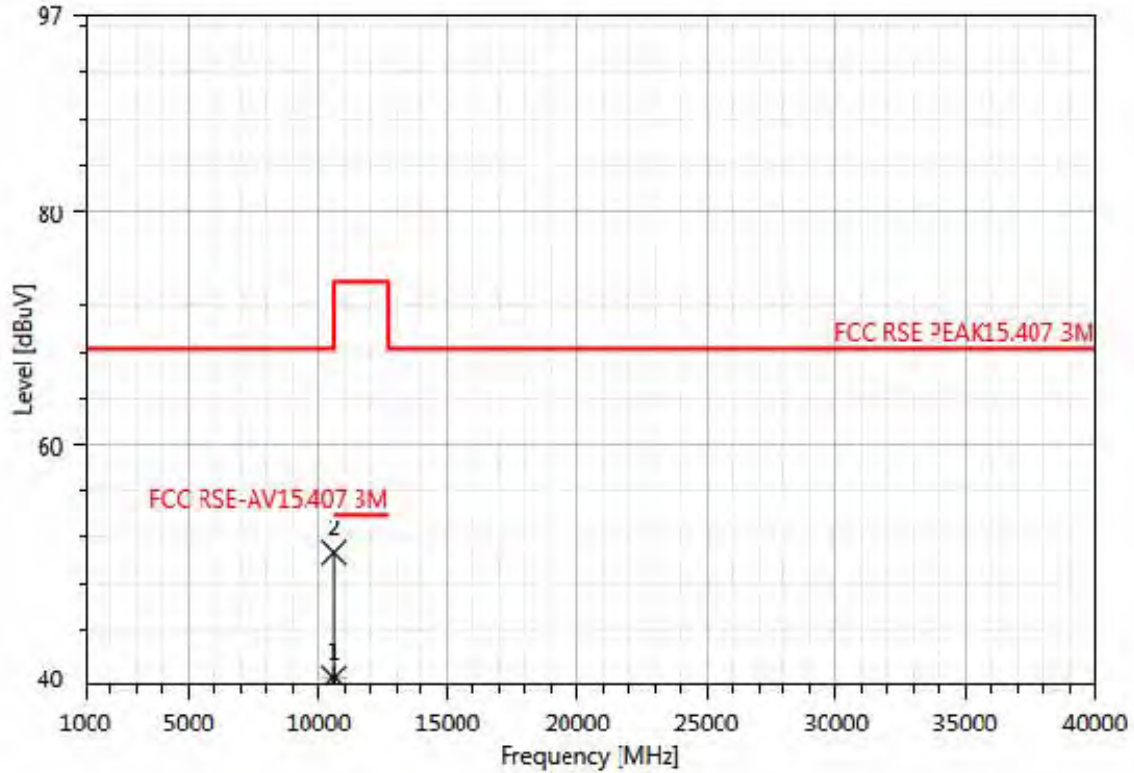
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Operation Mode :	802.11n20B2	Test Date :	08/12/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10600.00	H	Average	39.98	21.07	18.91	54.00	-14.02
10600.00	H	Peak	50.74	31.83	18.91	74.00	-23.26

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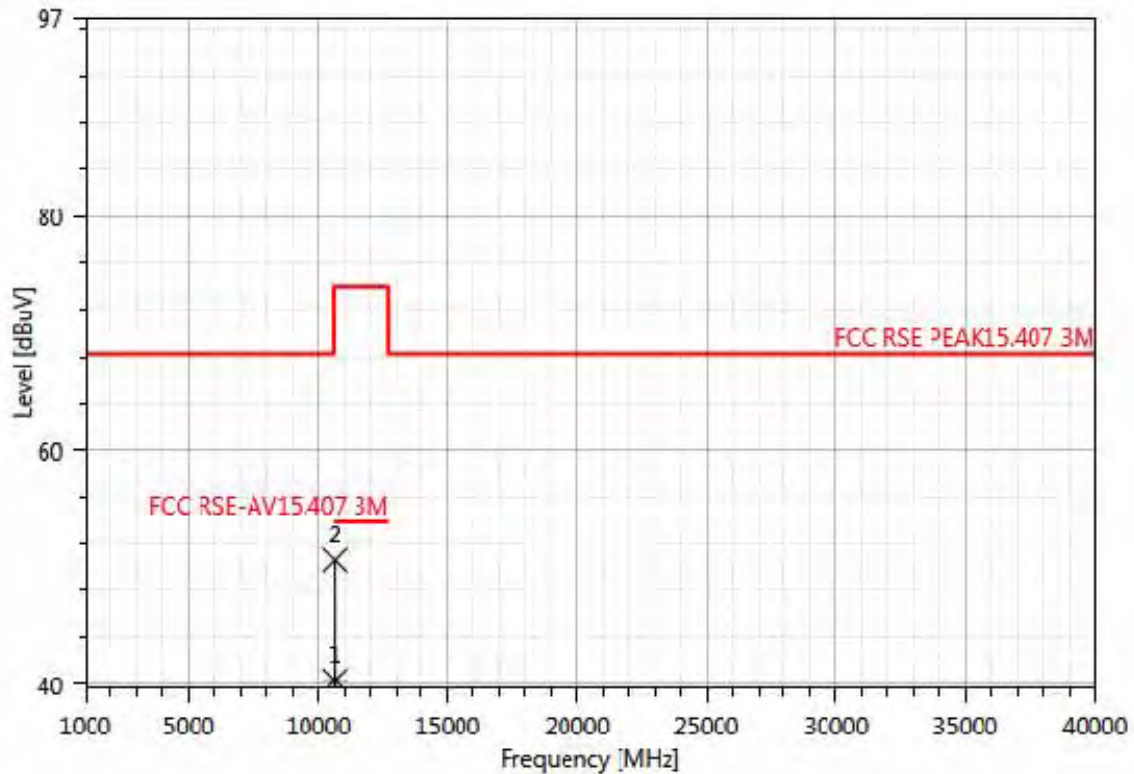
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Operation Mode :	802.11n20B2	Test Date :	08/12/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10640.00	H	Average	40.32	21.14	19.18	54.00	-13.68
10640.00	H	Peak	50.66	31.47	19.18	74.00	-23.34

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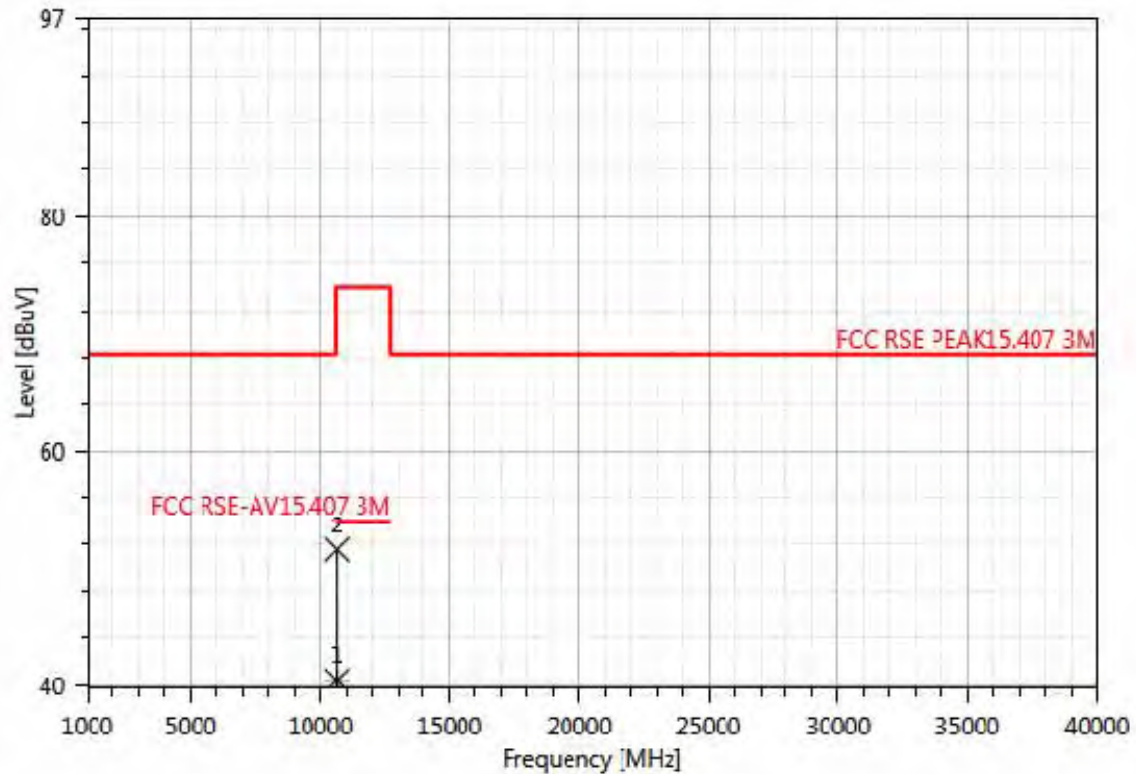
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Operation Mode :	802.11n20B2	Test Date :	08/12/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10640.00	H	Average	40.41	21.23	19.18	54.00	-13.59
10640.00	H	Peak	51.60	32.41	19.18	74.00	-22.40

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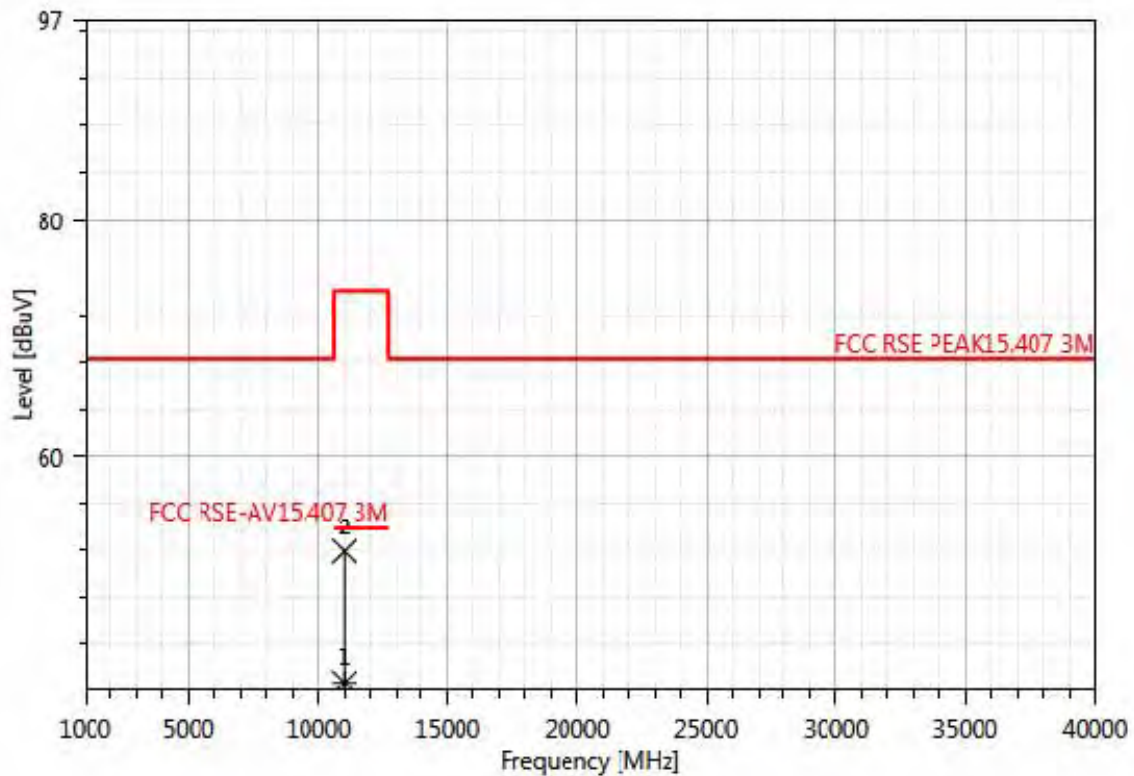
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	08/12/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
11000.00	H	Average	40.81	20.64	20.17	54.00	-13.19
11000.00	H	Peak	51.95	31.78	20.17	74.00	-22.05

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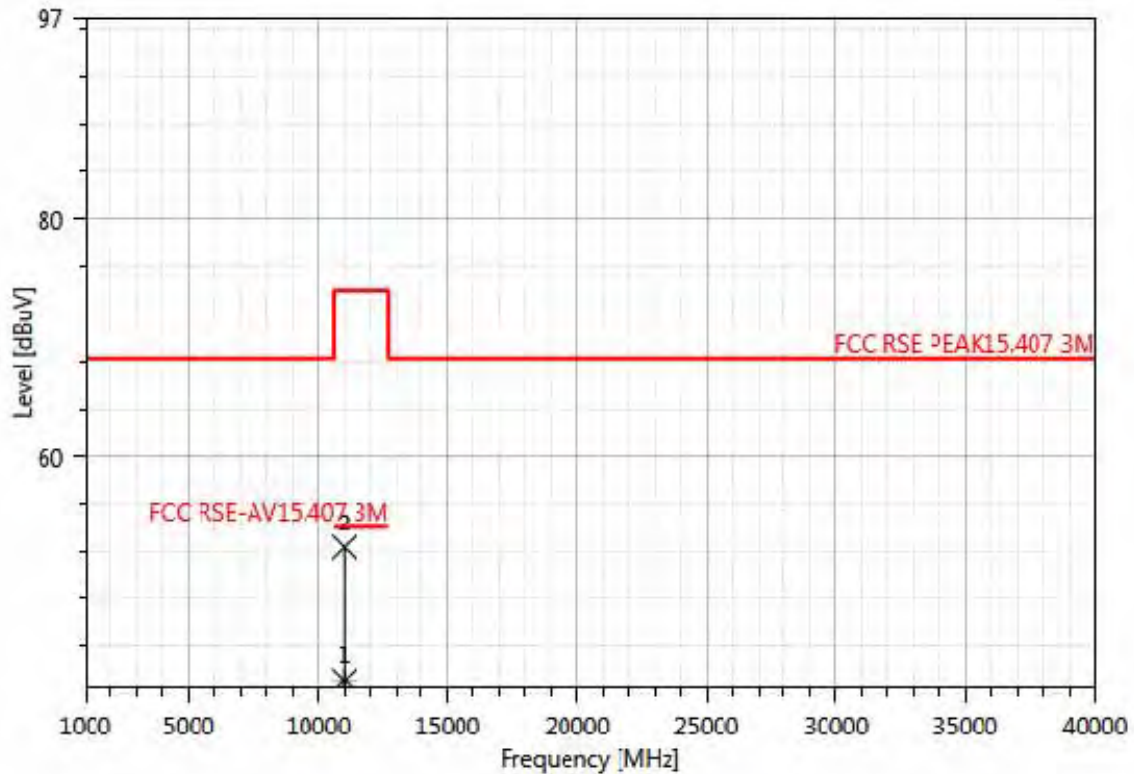
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Operation Mode :	802.11n20B3	Test Date :	08/12/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11000.00	H	Average	41.10	20.93	20.17	54.00	-12.90
11000.00	H	Peak	52.33	32.17	20.17	74.00	-21.67

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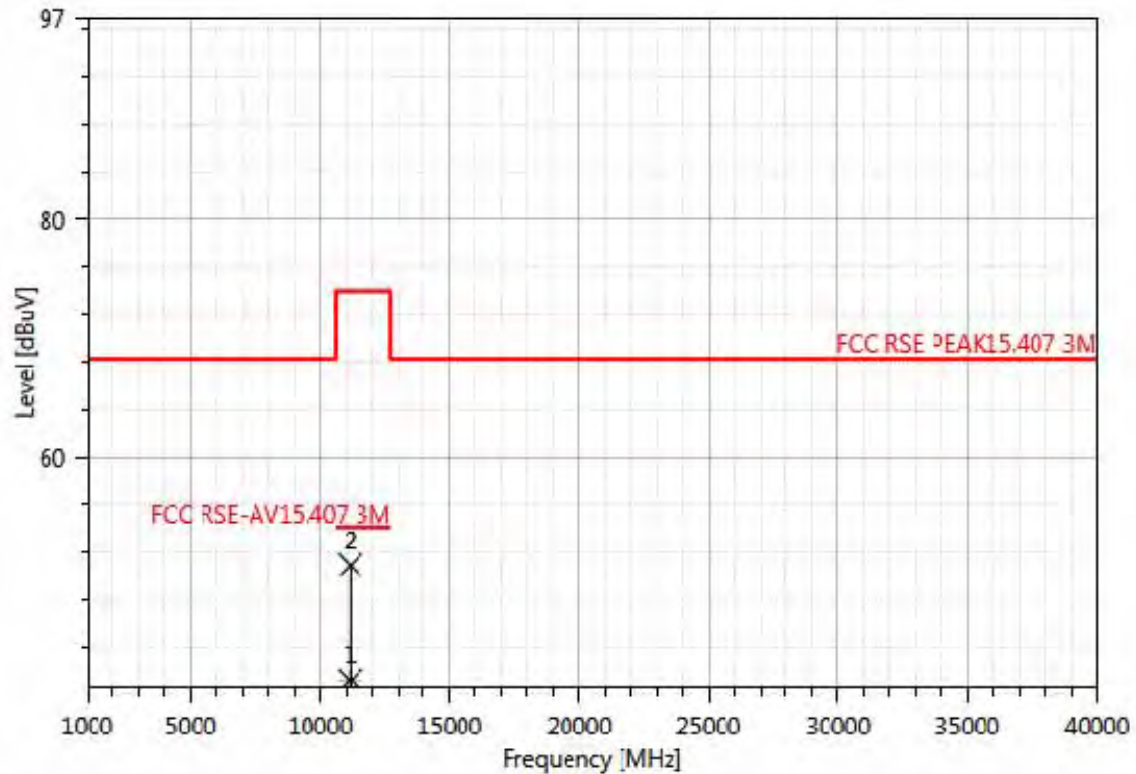
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Operation Mode :	802.11n20B3	Test Date :	08/12/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11160.00	H	Average	41.20	20.76	20.45	54.00	-12.80
11160.00	H	Peak	50.92	30.48	20.45	74.00	-23.08

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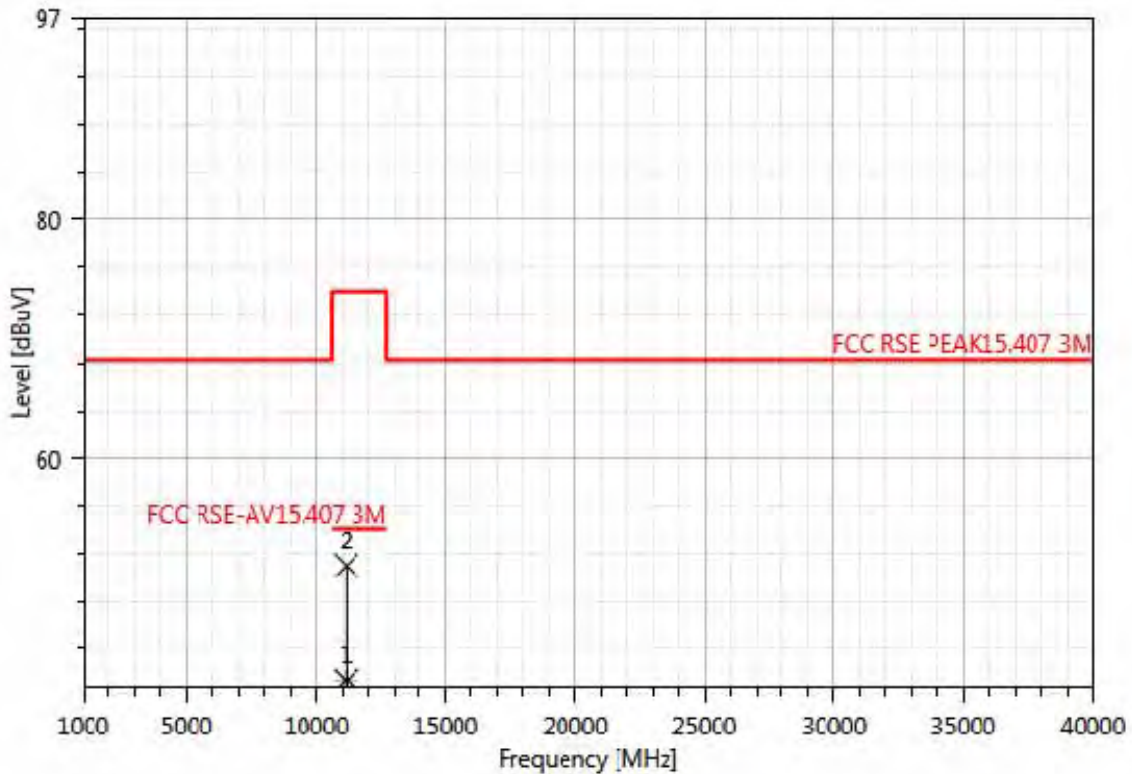
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Operation Mode :	802.11n20B3	Test Date :	08/12/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11160.00	H	Average	41.33	20.89	20.45	54.00	-12.67
11160.00	H	Peak	50.97	30.53	20.45	74.00	-23.03

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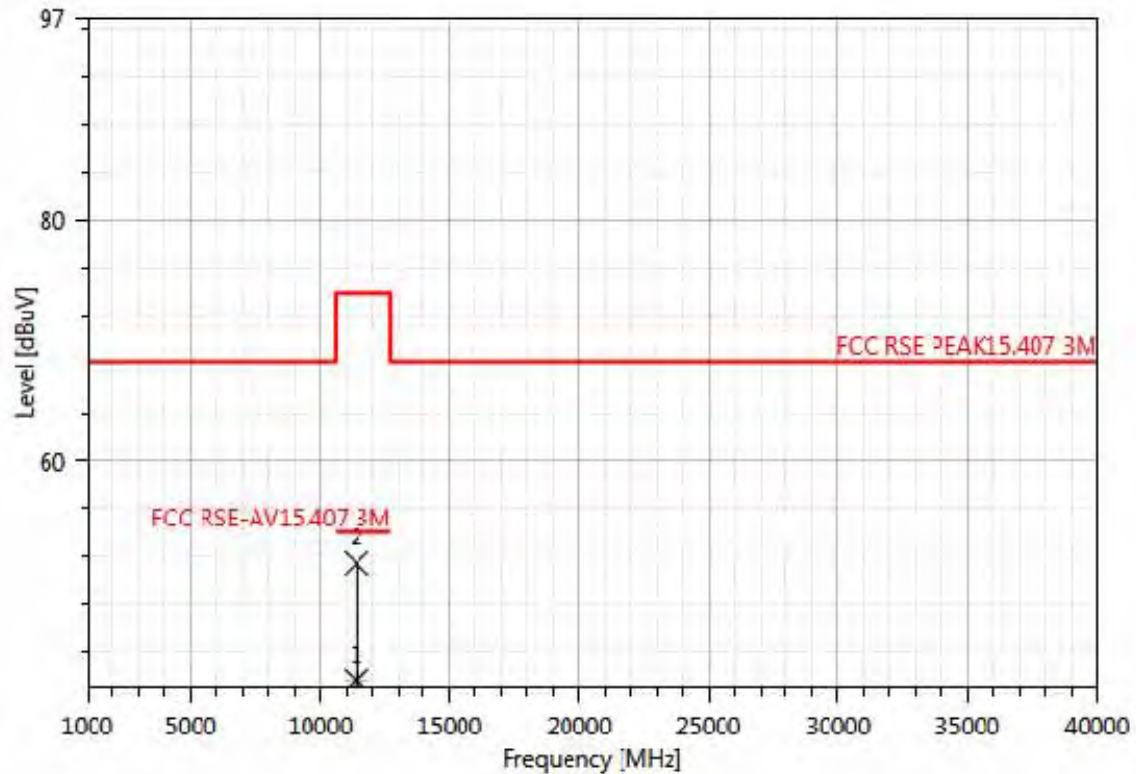
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Operation Mode :	802.11n20B3	Test Date :	08/12/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11400.00	H	Average	41.62	21.06	20.56	54.00	-12.38
11400.00	H	Peak	51.46	30.90	20.56	74.00	-22.54

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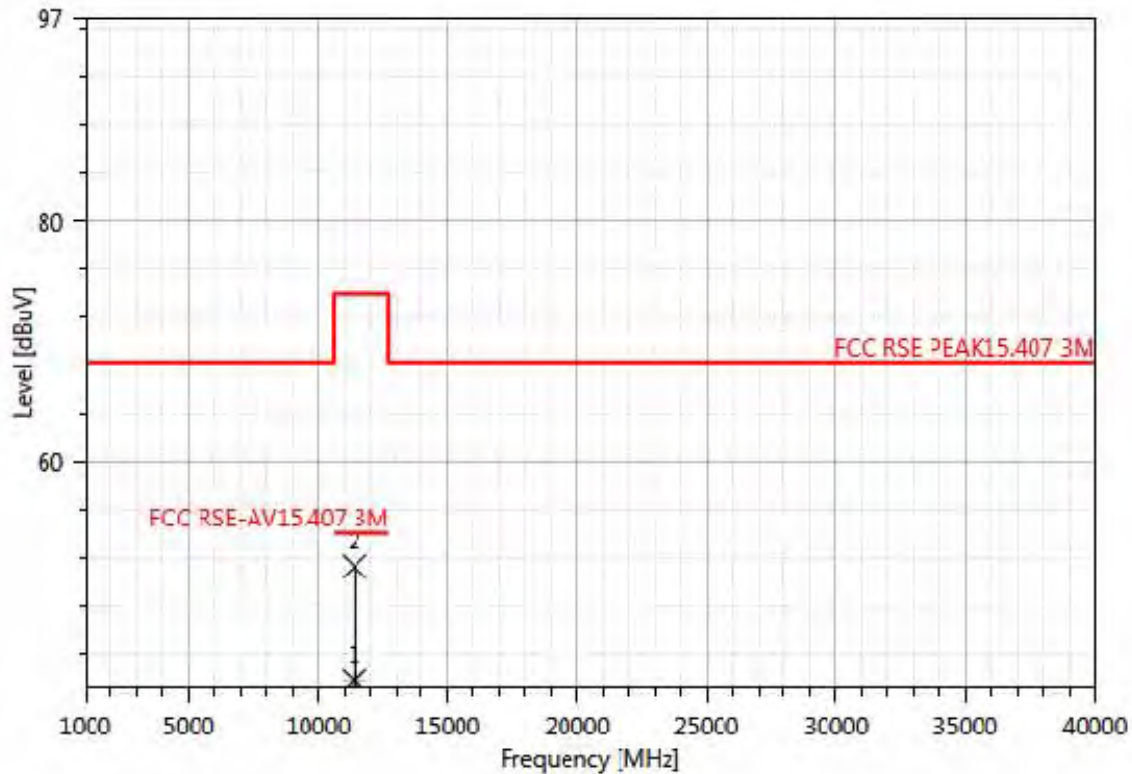
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Operation Mode :	802.11n20B3	Test Date :	08/12/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11400.00	H	Average	41.74	21.18	20.56	54.00	-12.26
11400.00	H	Peak	51.26	30.70	20.56	74.00	-22.74

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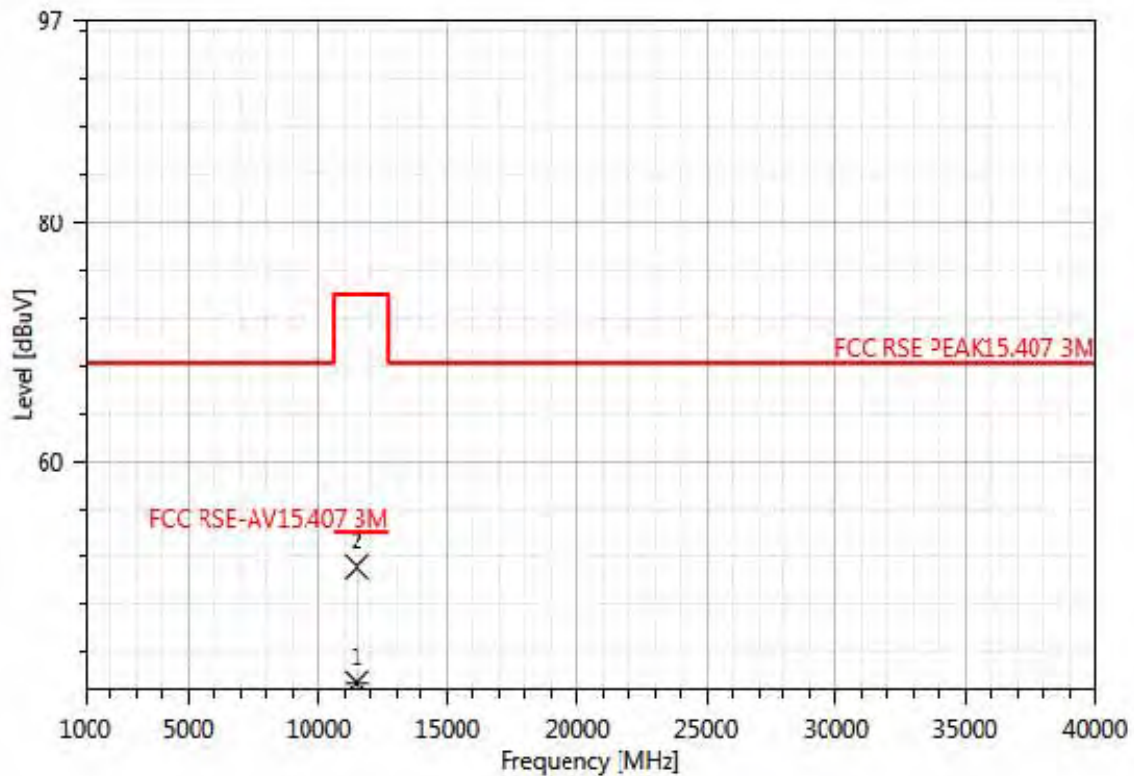
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	08/12/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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	41.46	21.04	20.42	54.00	-12.54
11490.00	H	Peak	51.19	30.77	20.42	74.00	-22.81

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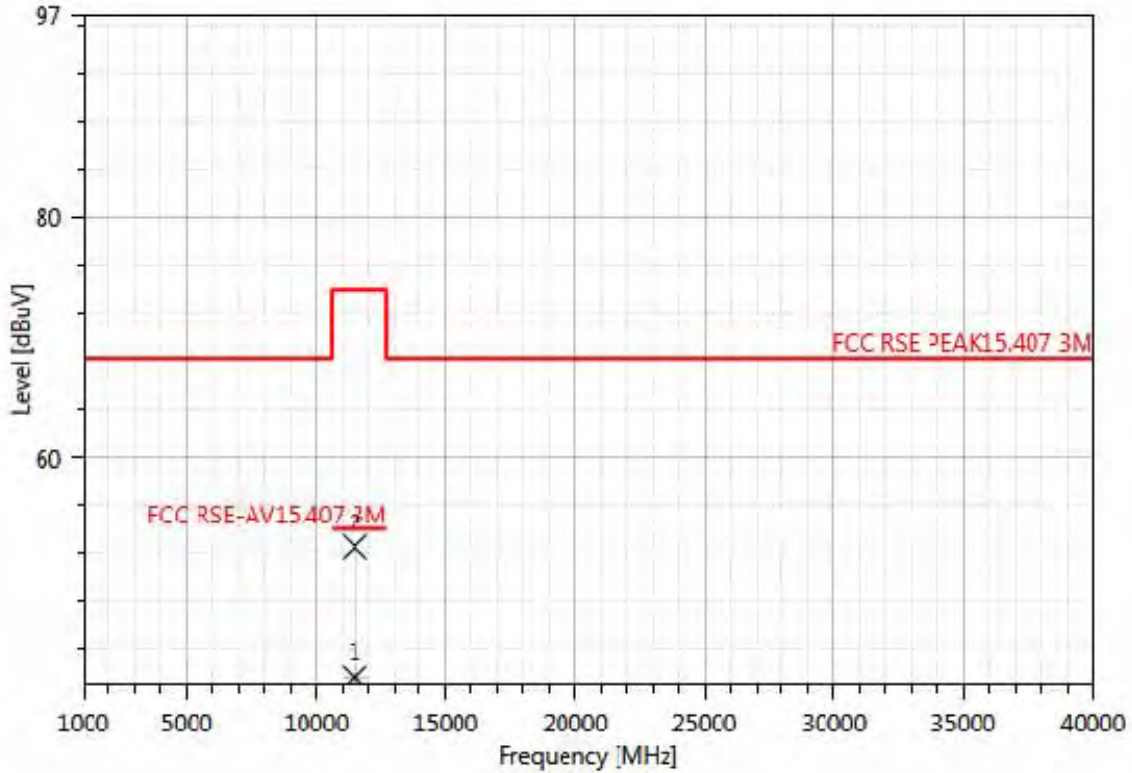
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Operation Mode : 802.11n20B4 Test Date : 08/12/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH LOW Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11490.00	H	Average	41.59	21.16	20.42	54.00	-12.41
11490.00	H	Peak	52.50	32.08	20.42	74.00	-21.50

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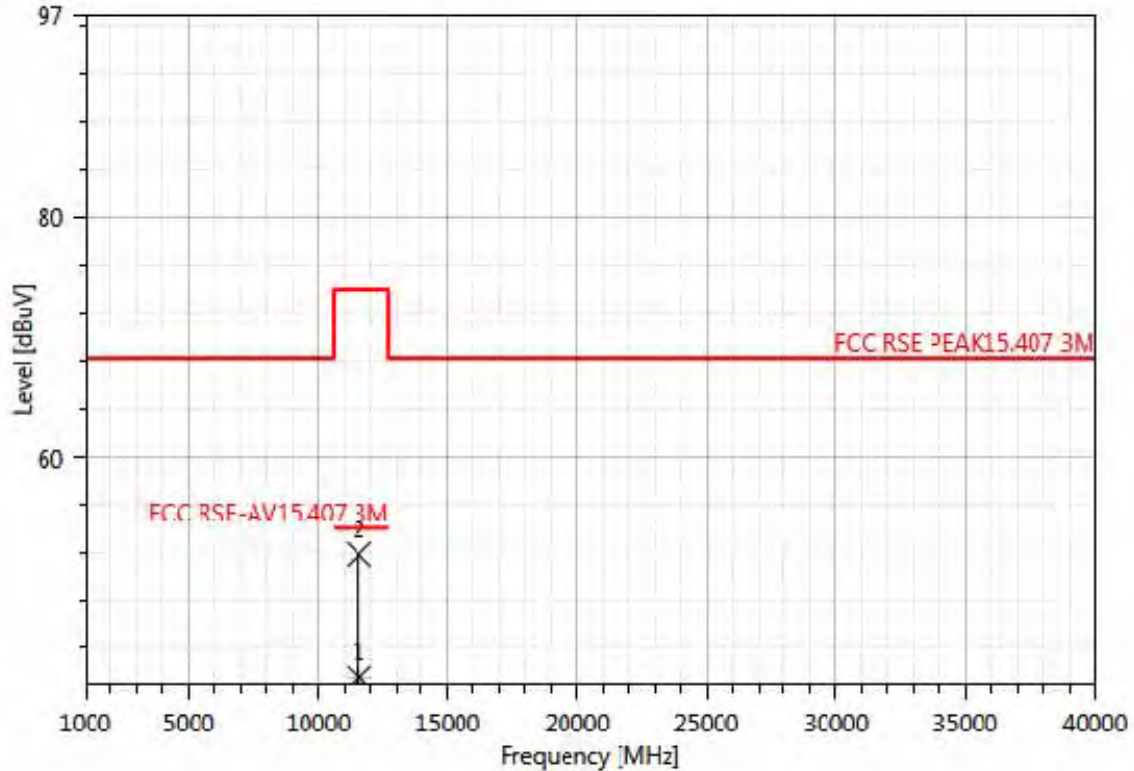
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Operation Mode :	802.11n20B4	Test Date :	08/12/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11570.00	H	Average	41.53	20.94	20.59	54.00	-12.47
11570.00	H	Peak	51.85	31.26	20.59	74.00	-22.15

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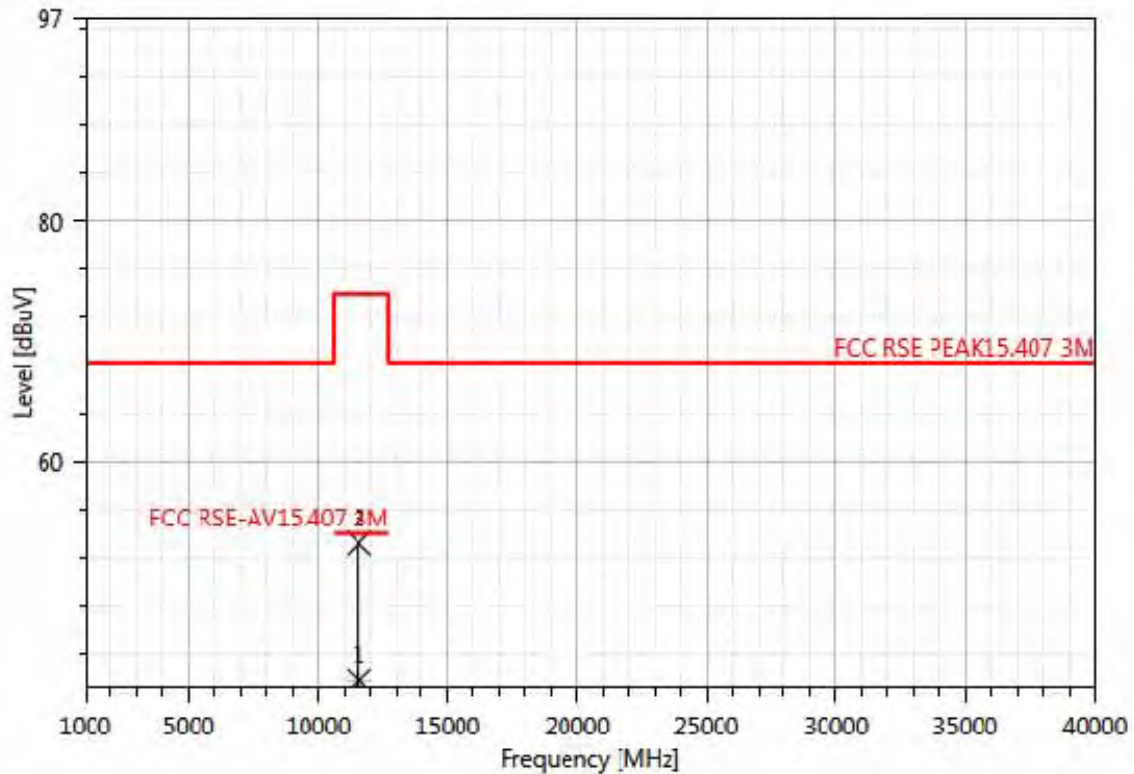
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Operation Mode :	802.11n20B4	Test Date :	08/12/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11570.00	H	Average	41.76	21.18	20.59	54.00	-12.24
11570.00	H	Peak	53.20	32.61	20.59	74.00	-20.80

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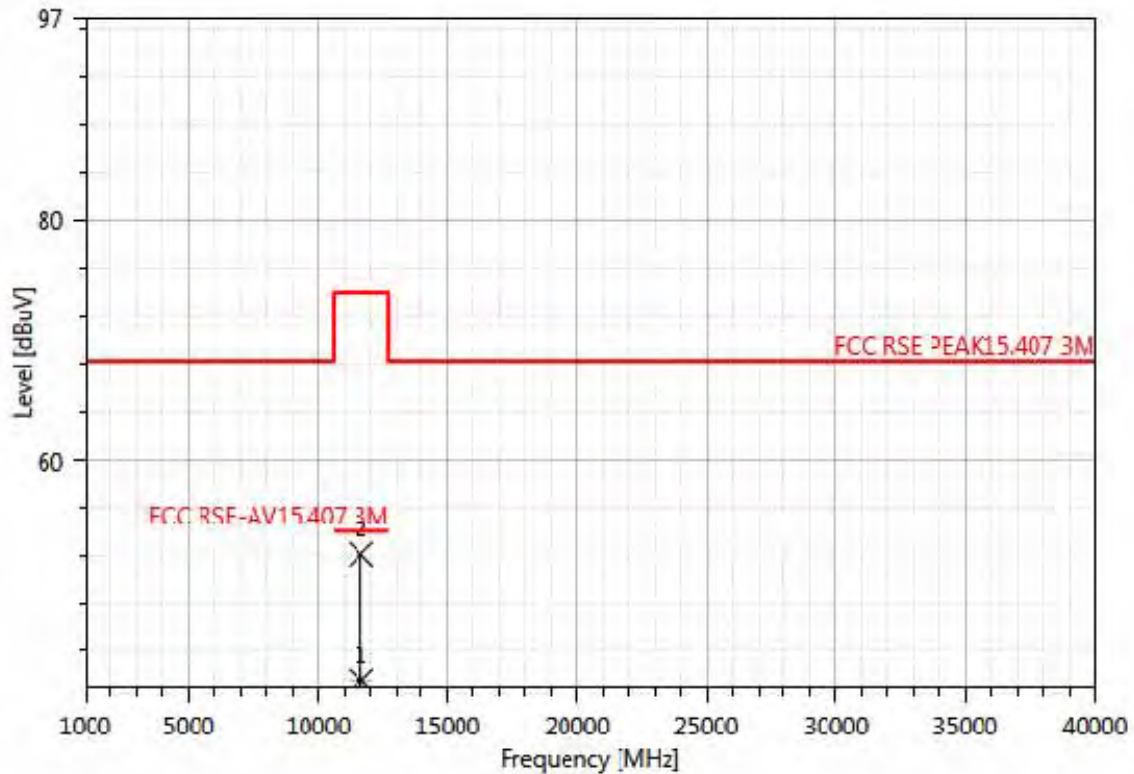
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Operation Mode :	802.11n20B4	Test Date :	08/12/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11650.00	H	Average	41.52	21.09	20.43	54.00	-12.48
11650.00	H	Peak	52.10	31.66	20.43	74.00	-21.90

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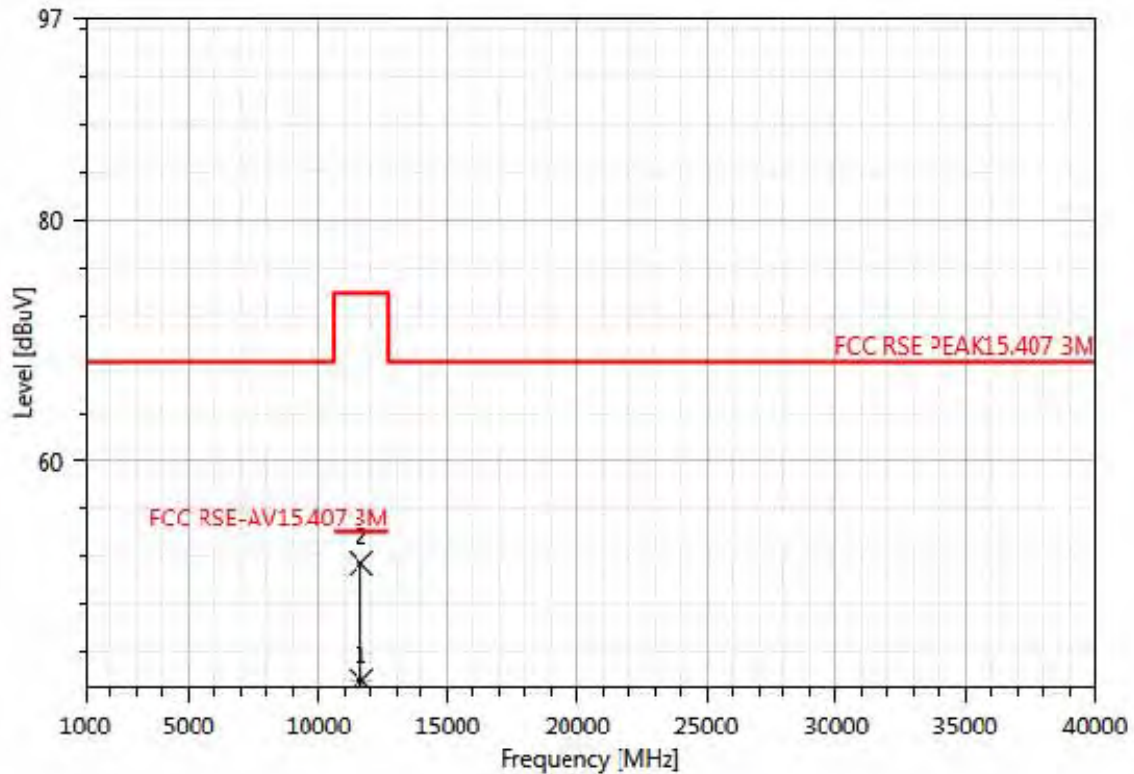
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Operation Mode :	802.11n20B4	Test Date :	08/12/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11650.00	H	Average	41.62	21.18	20.43	54.00	-12.38
11650.00	H	Peak	51.44	31.01	20.43	74.00	-22.56

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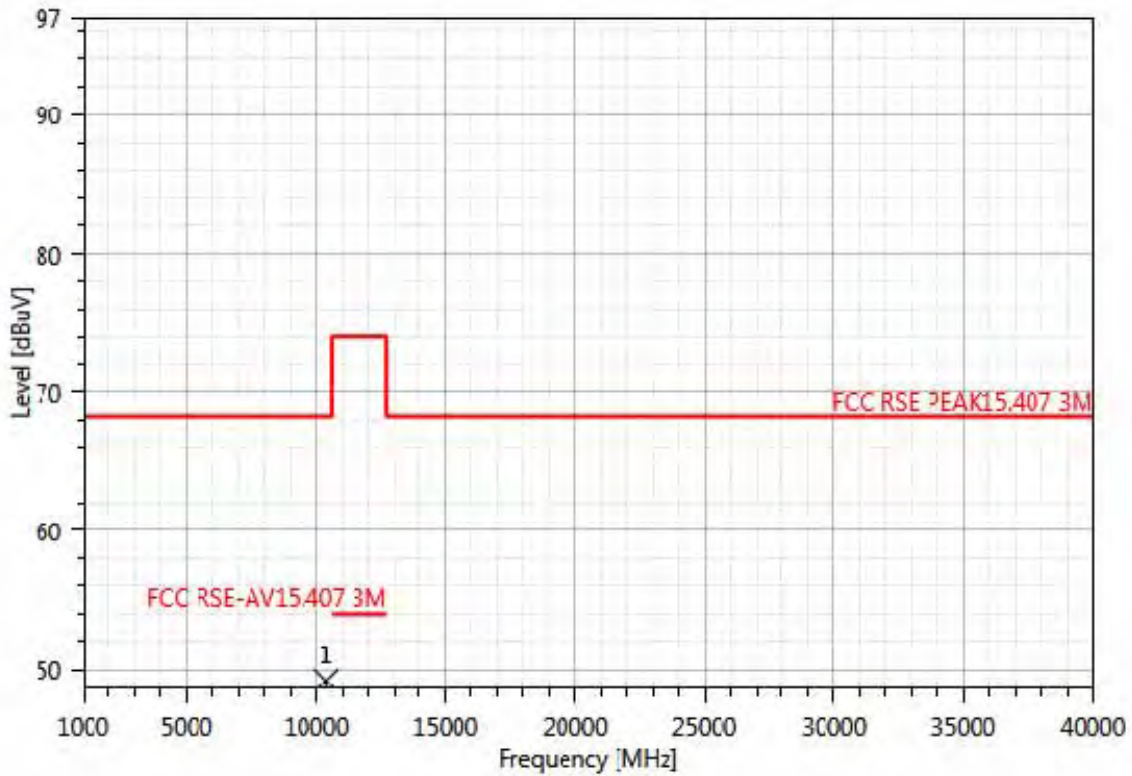
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	08/12/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
10380.00	H	Peak	49.19	31.07	18.12	68.30	-19.11

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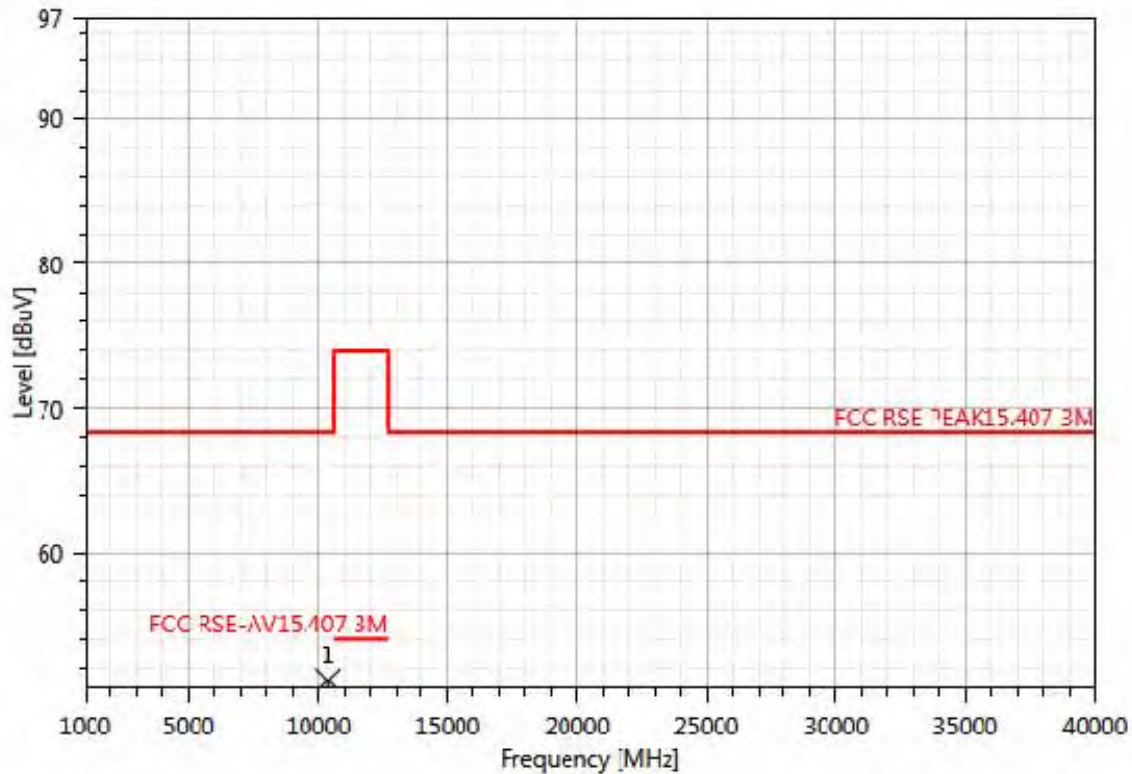
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Operation Mode :	802.11n40B1	Test Date :	08/12/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10380.00	H	Peak	51.18	33.05	18.12	68.30	-17.12

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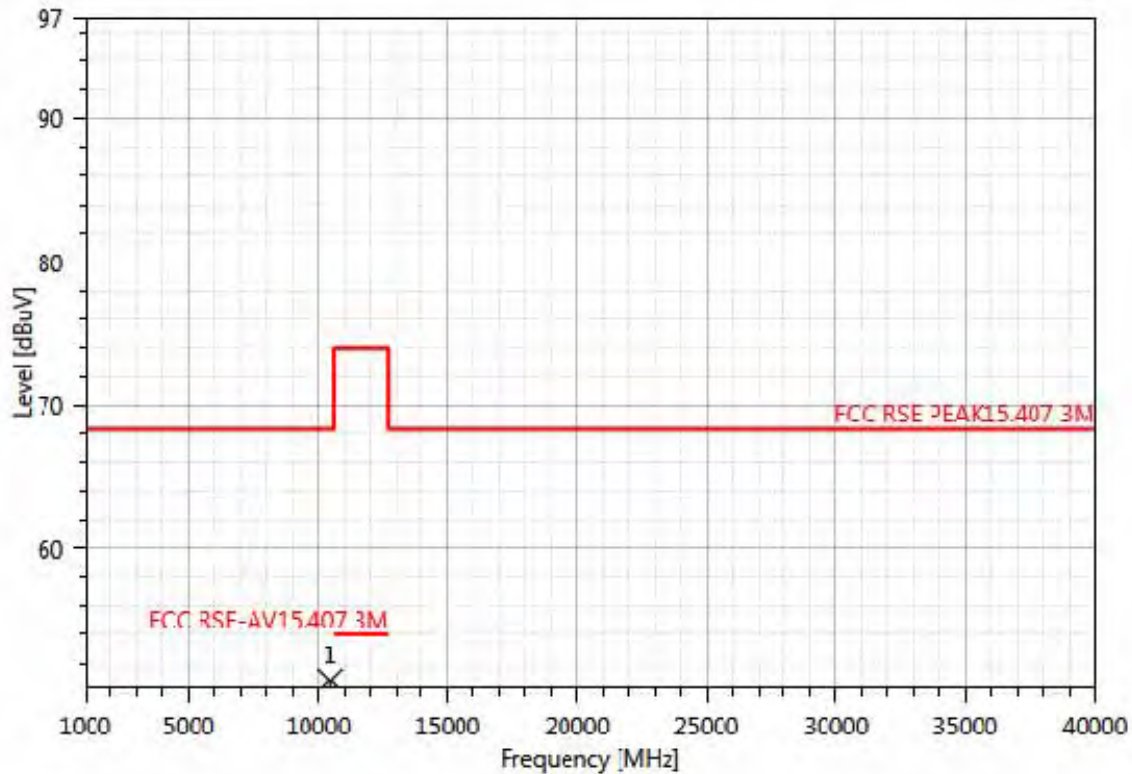
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Operation Mode :	802.11n40B1	Test Date :	08/12/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



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
10460.00	H	Peak	50.82	32.27	18.54	68.30	-17.48

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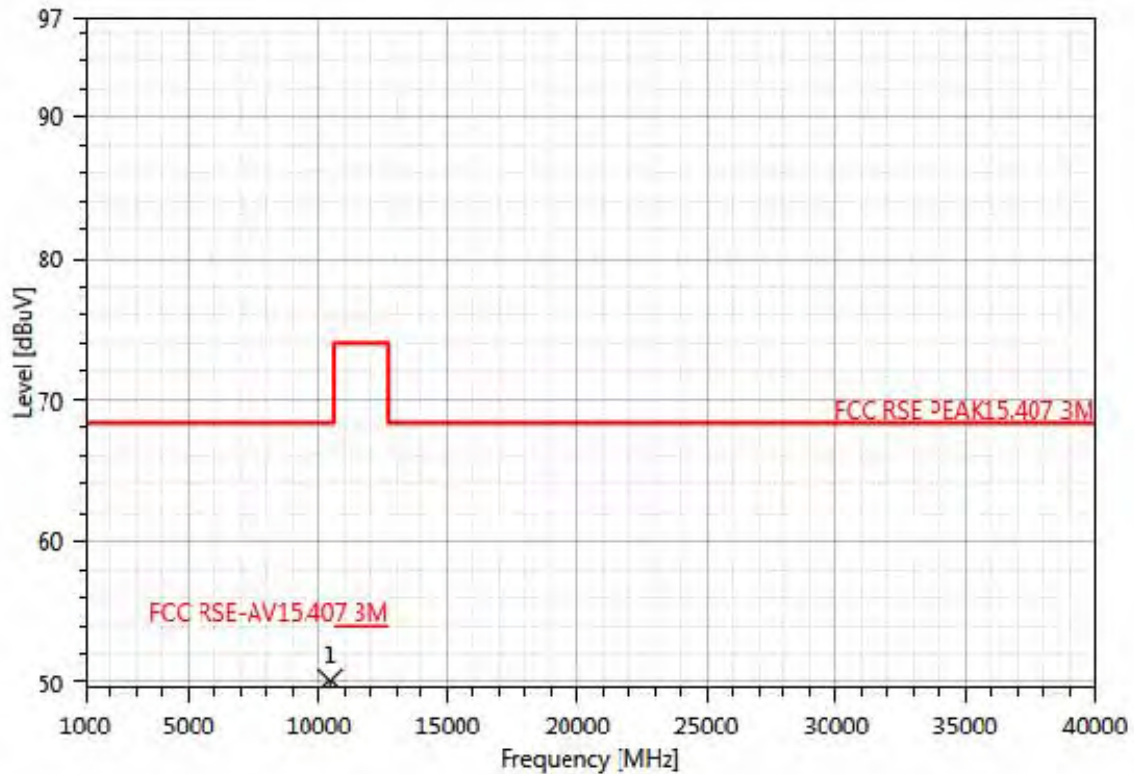
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Operation Mode :	802.11n40B1	Test Date :	08/12/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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	50.16	31.62	18.54	68.30	-18.14

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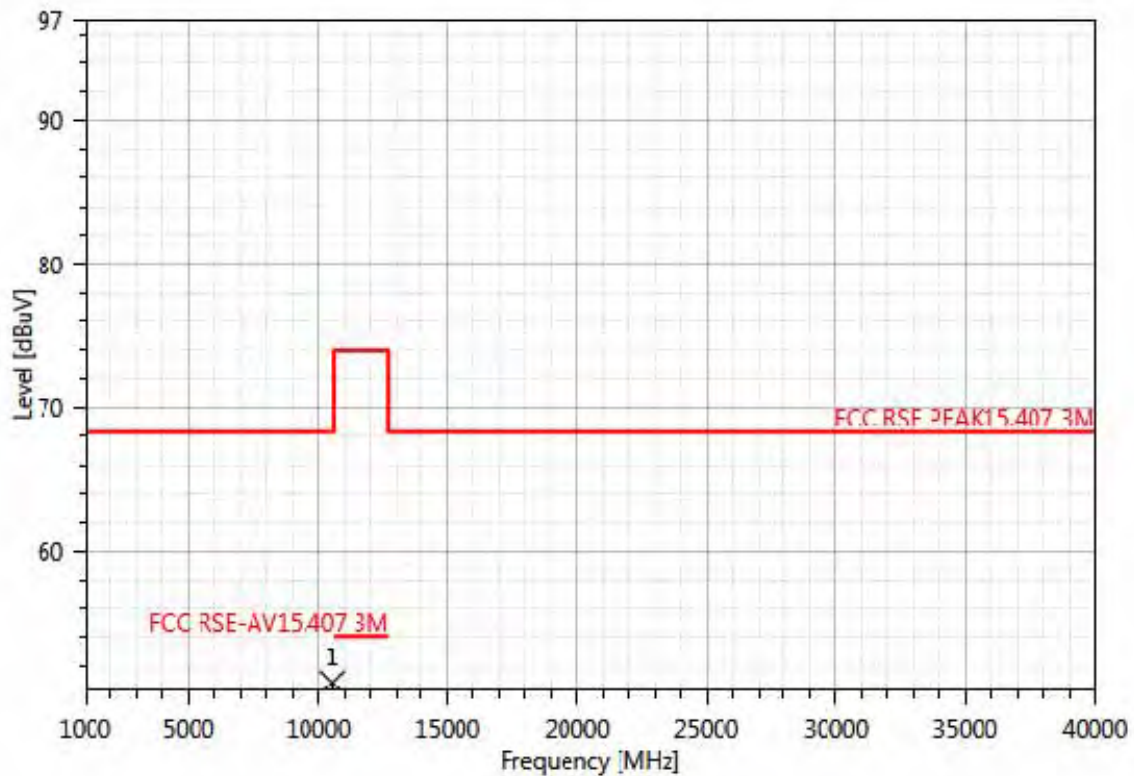
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	08/12/2016
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
10540.00	H	Peak	50.86	31.69	19.17	68.30	-17.44

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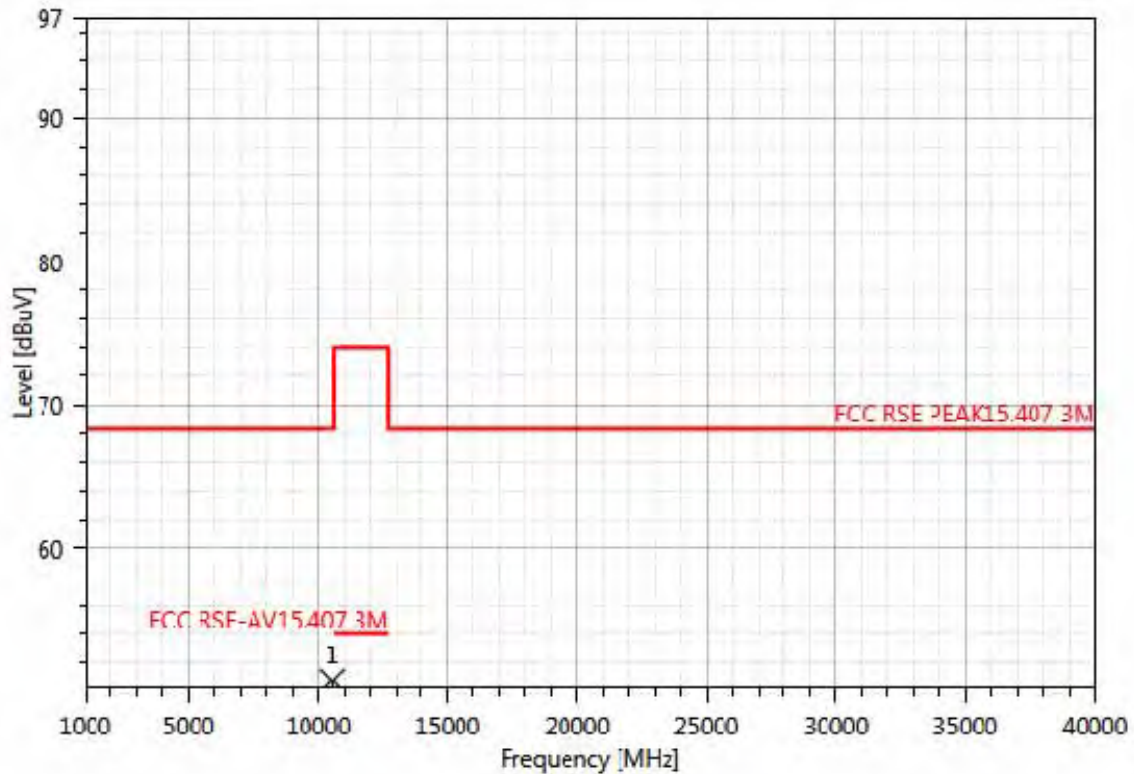
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Operation Mode :	802.11n40B2	Test Date :	08/12/2016
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
10540.00	H	Peak	50.77	31.60	19.17	68.30	-17.53

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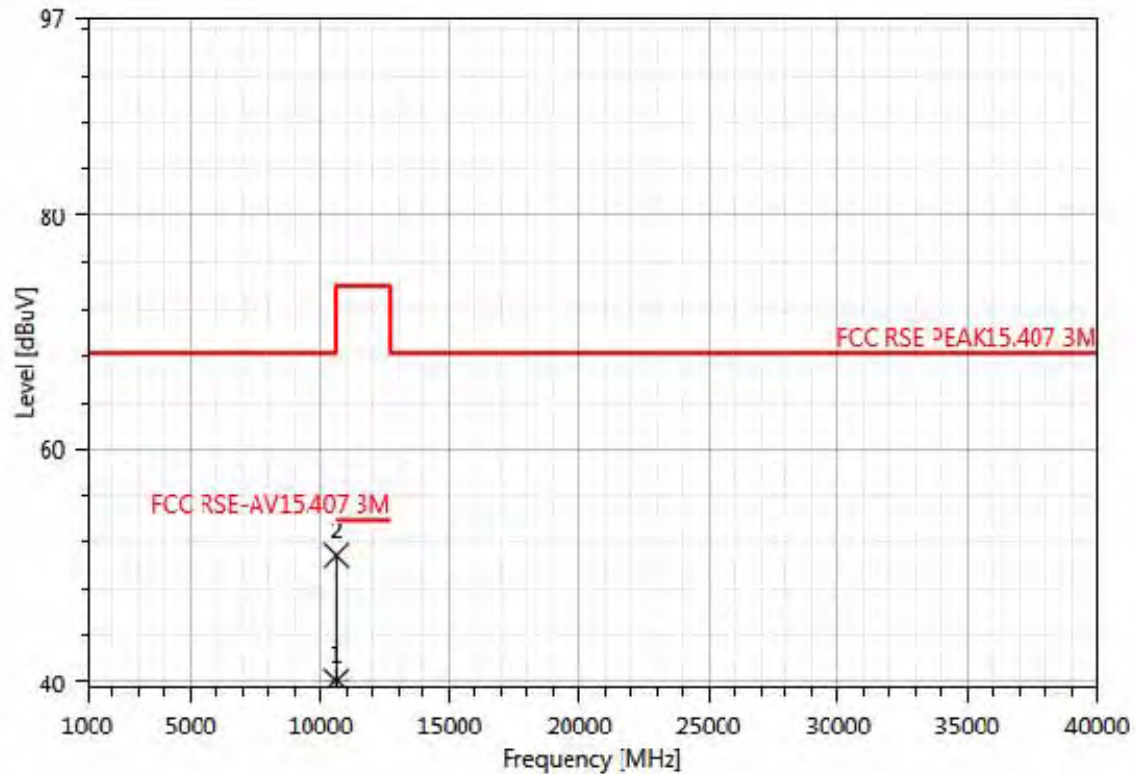
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Operation Mode :	802.11n40B2	Test Date :	08/12/2016
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10620.00	H	Average	40.20	21.09	19.11	54.00	-13.80
10620.00	H	Peak	50.93	31.82	19.11	74.00	-23.07

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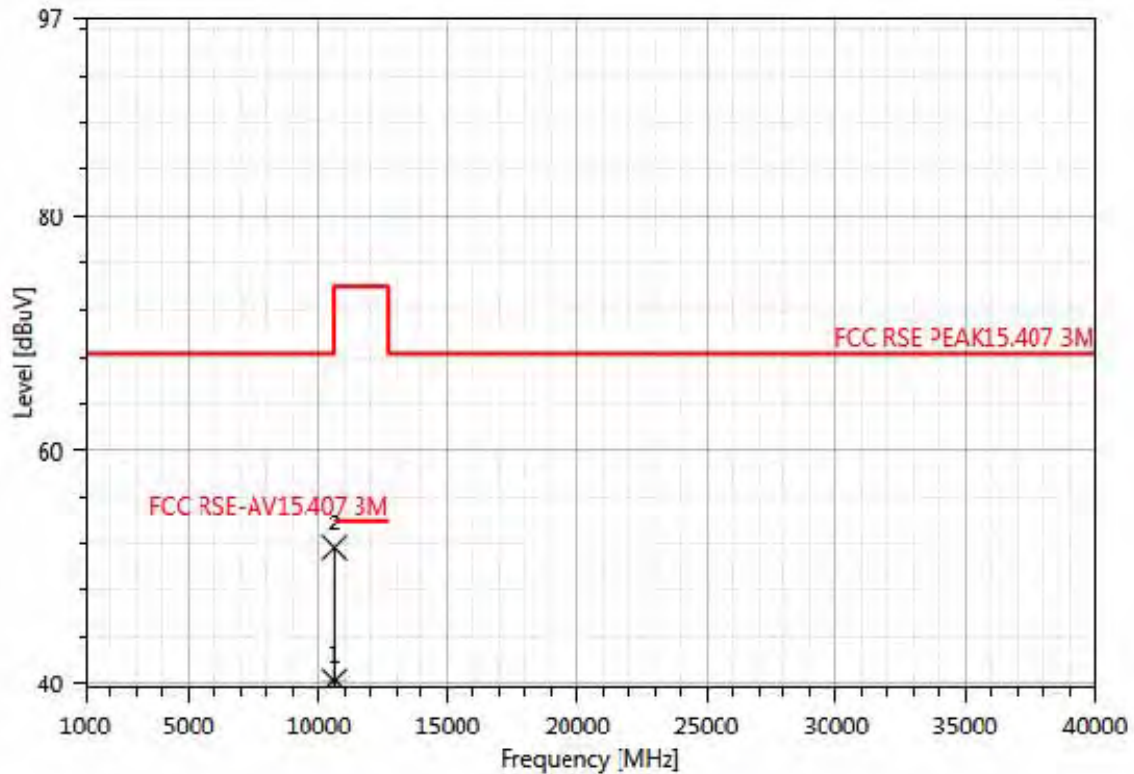
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Operation Mode :	802.11n40B2	Test Date :	08/12/2016
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10620.00	H	Average	40.28	21.17	19.11	54.00	-13.72
10620.00	H	Peak	51.64	32.54	19.11	74.00	-22.36

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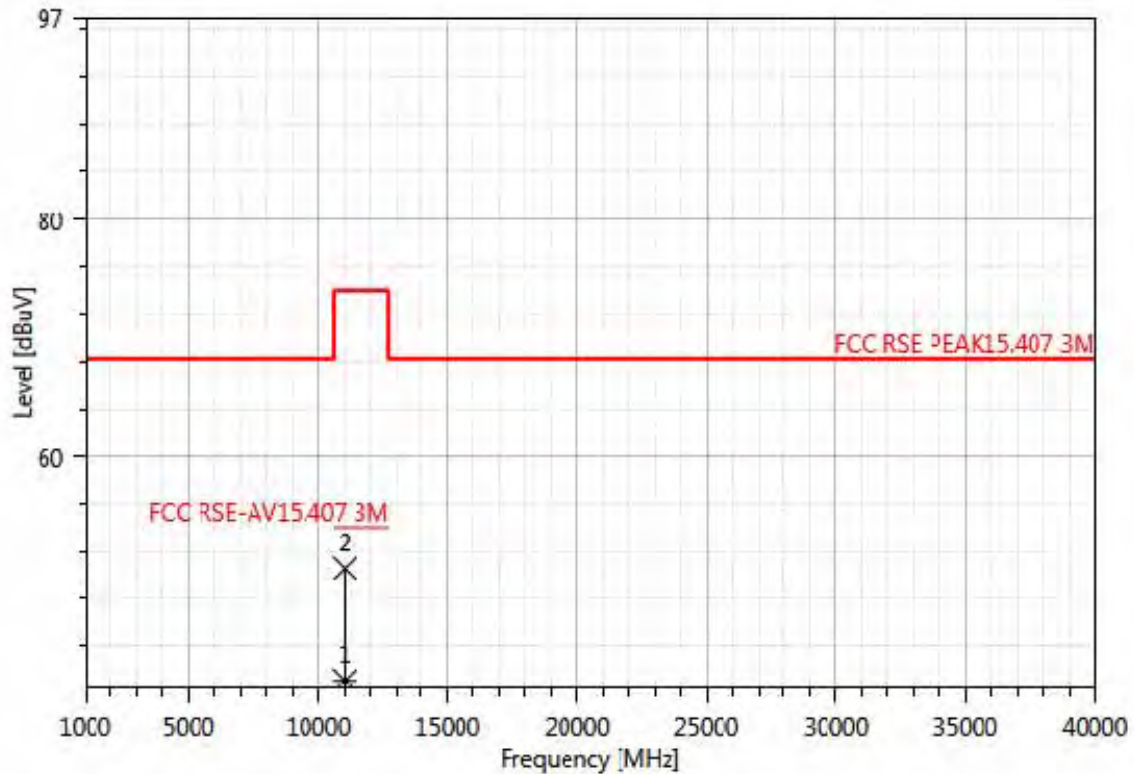
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	08/12/2016
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
11020.00	H	Average	41.12	20.96	20.16	54.00	-12.88
11020.00	H	Peak	50.60	30.44	20.16	74.00	-23.40

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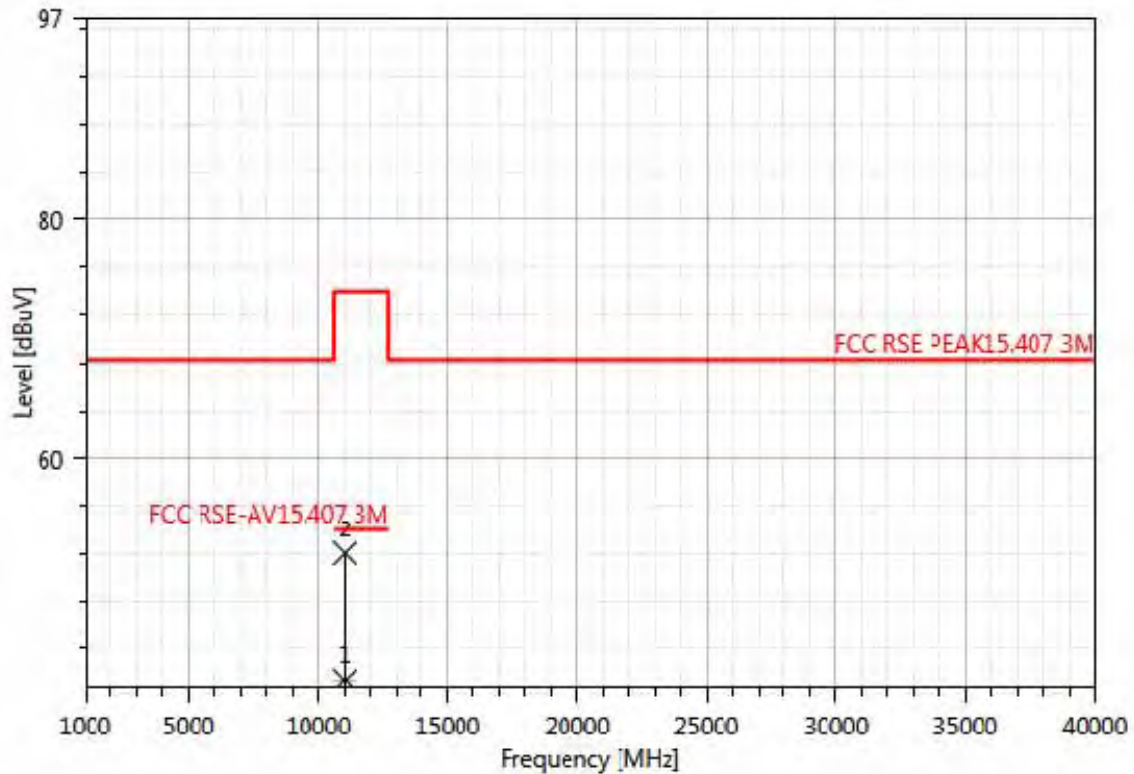
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Operation Mode :	802.11n40B3	Test Date :	08/12/2016
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11020.00	H	Average	41.34	21.18	20.16	54.00	-12.66
11020.00	H	Peak	52.05	31.89	20.16	74.00	-21.95

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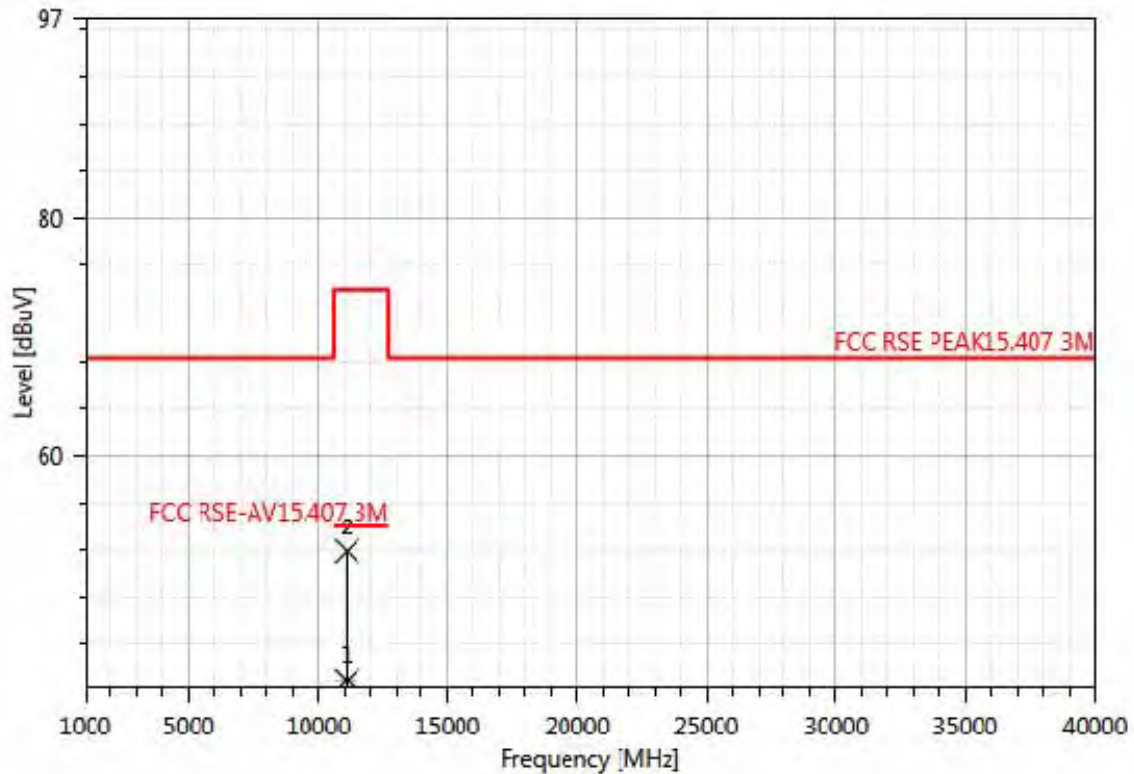
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Operation Mode :	802.11n40B3	Test Date :	08/12/2016
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11100.00	H	Average	40.98	20.66	20.32	54.00	-13.02
11100.00	H	Peak	51.92	31.60	20.32	74.00	-22.08

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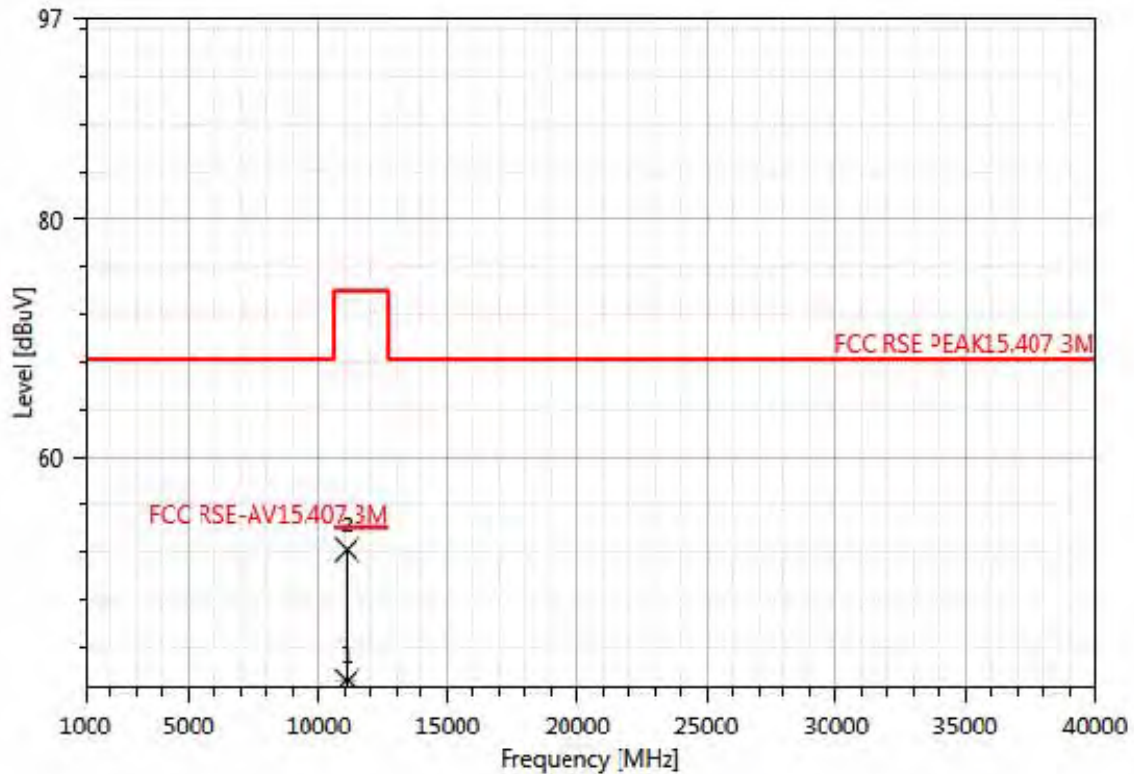
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Operation Mode :	802.11n40B3	Test Date :	08/12/2016
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



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
11100.00	H	Average	41.19	20.87	20.32	54.00	-12.81
11100.00	H	Peak	52.20	31.88	20.32	74.00	-21.80

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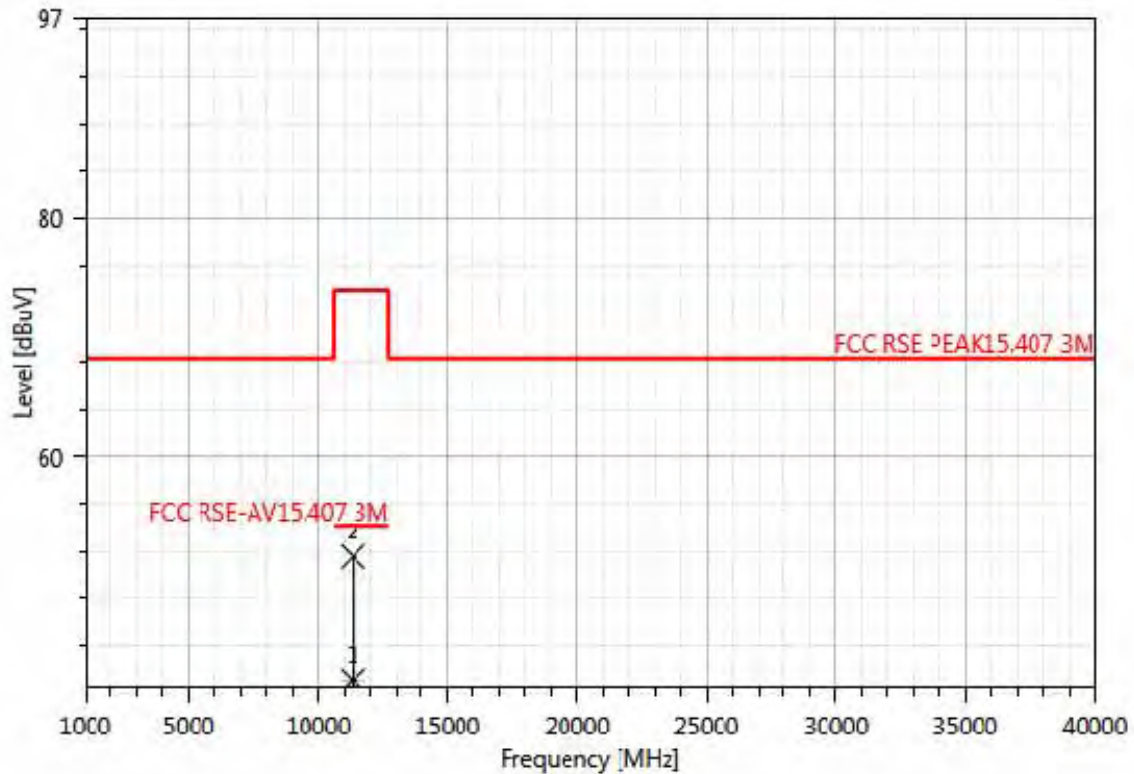
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Operation Mode :	802.11n40B3	Test Date :	08/12/2016
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11340.00	H	Average	41.07	20.69	20.38	54.00	-12.93
11340.00	H	Peak	51.57	31.18	20.38	74.00	-22.43

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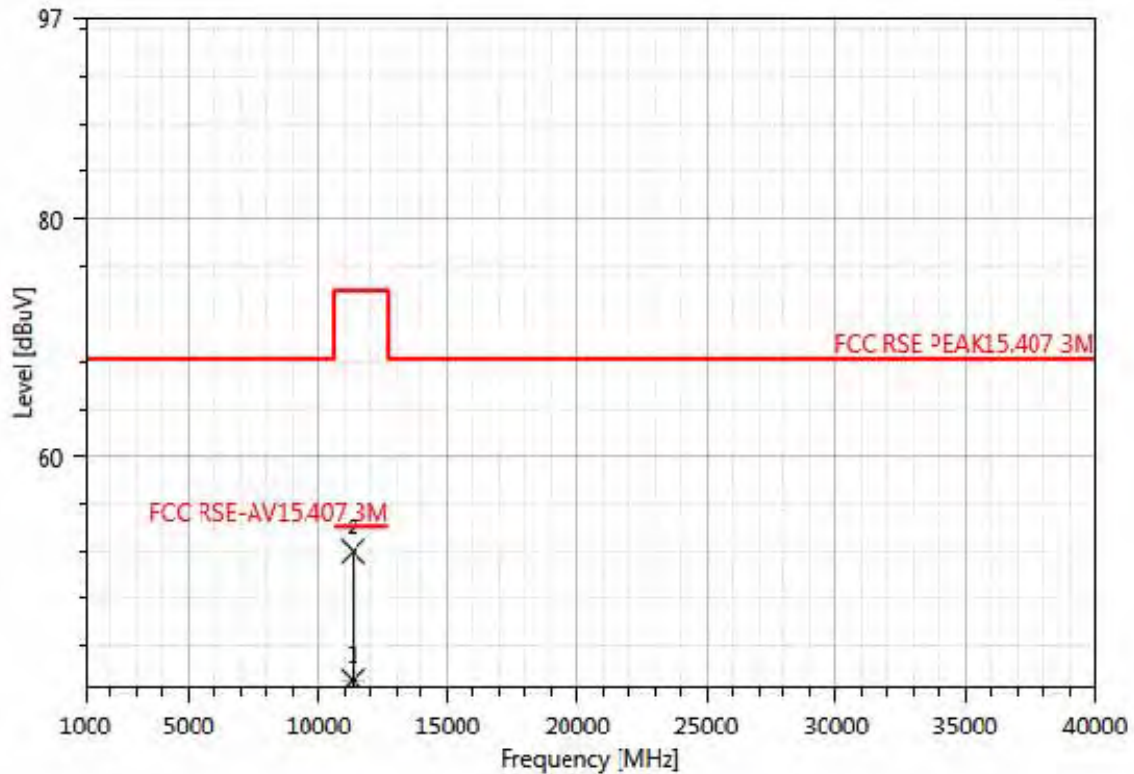
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Operation Mode :	802.11n40B3	Test Date :	08/12/2016
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11340.00	H	Average	41.10	20.72	20.38	54.00	-12.90
11340.00	H	Peak	51.99	31.61	20.38	74.00	-22.01

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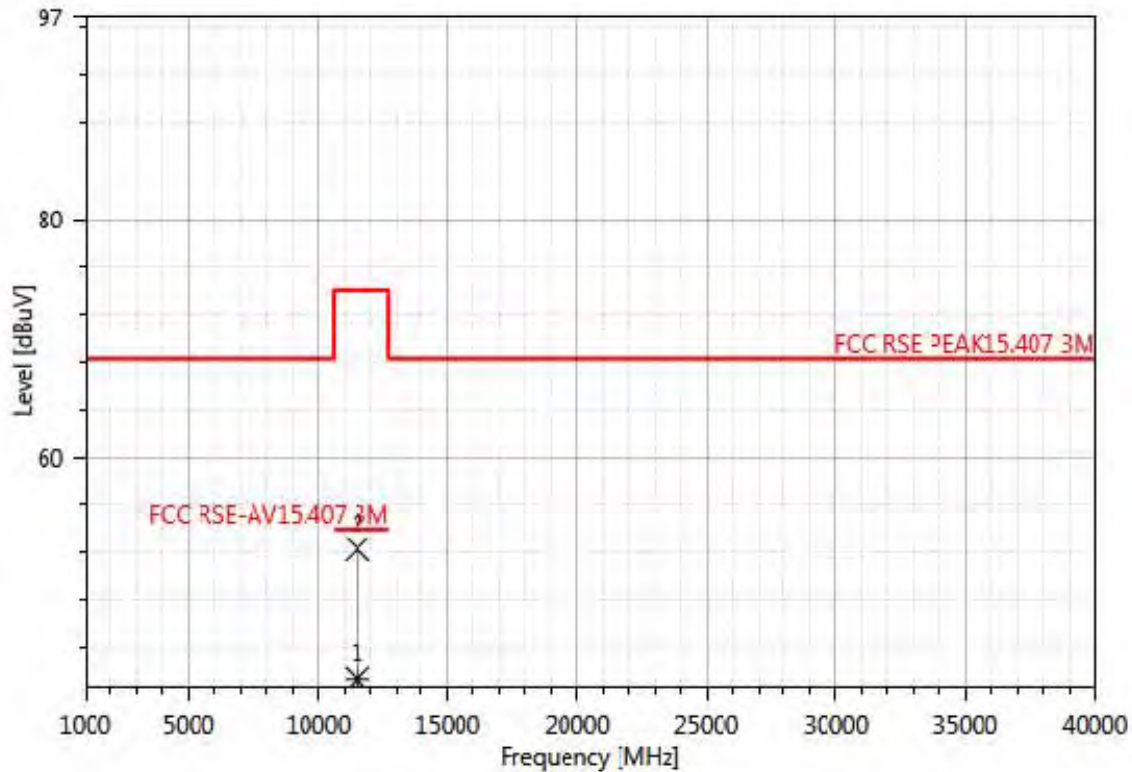
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	08/12/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
11510.00	H	Average	41.42	21.03	20.39	54.00	-12.58
11510.00	H	Peak	52.32	31.93	20.39	74.00	-21.68

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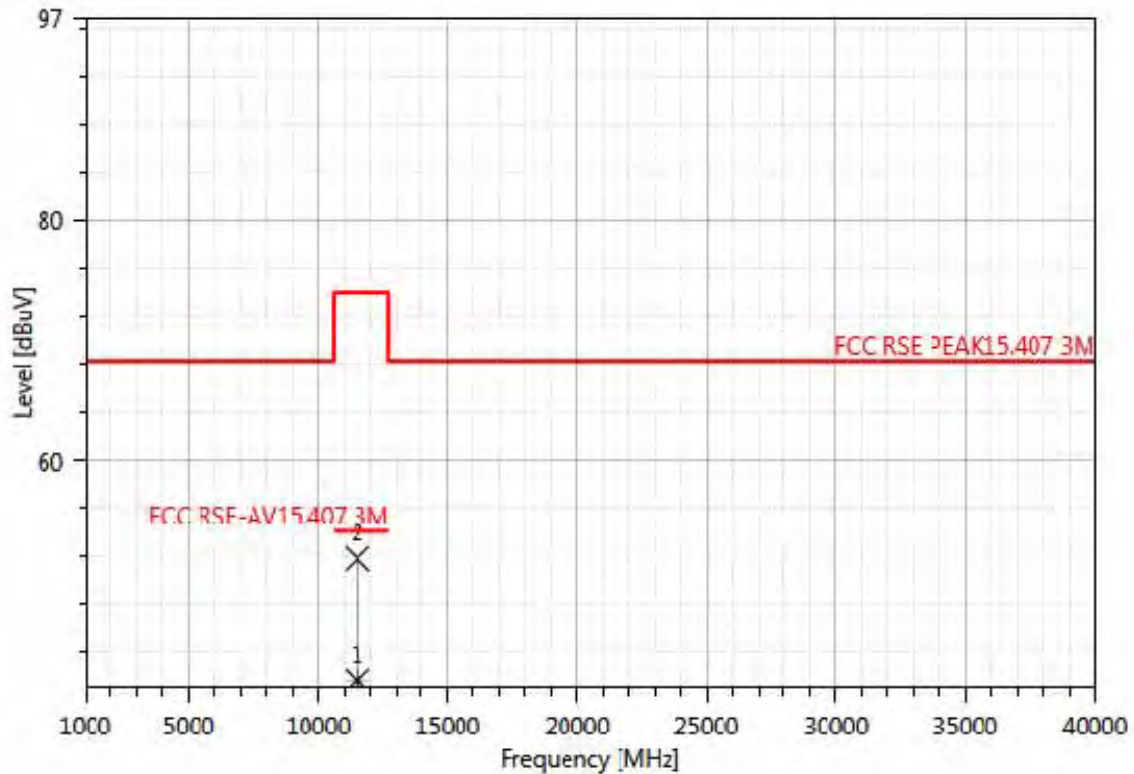
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Operation Mode :	802.11n40B4	Test Date :	08/12/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11510.00	H	Average	41.54	21.15	20.39	54.00	-12.46
11510.00	H	Peak	51.77	31.38	20.39	74.00	-22.23

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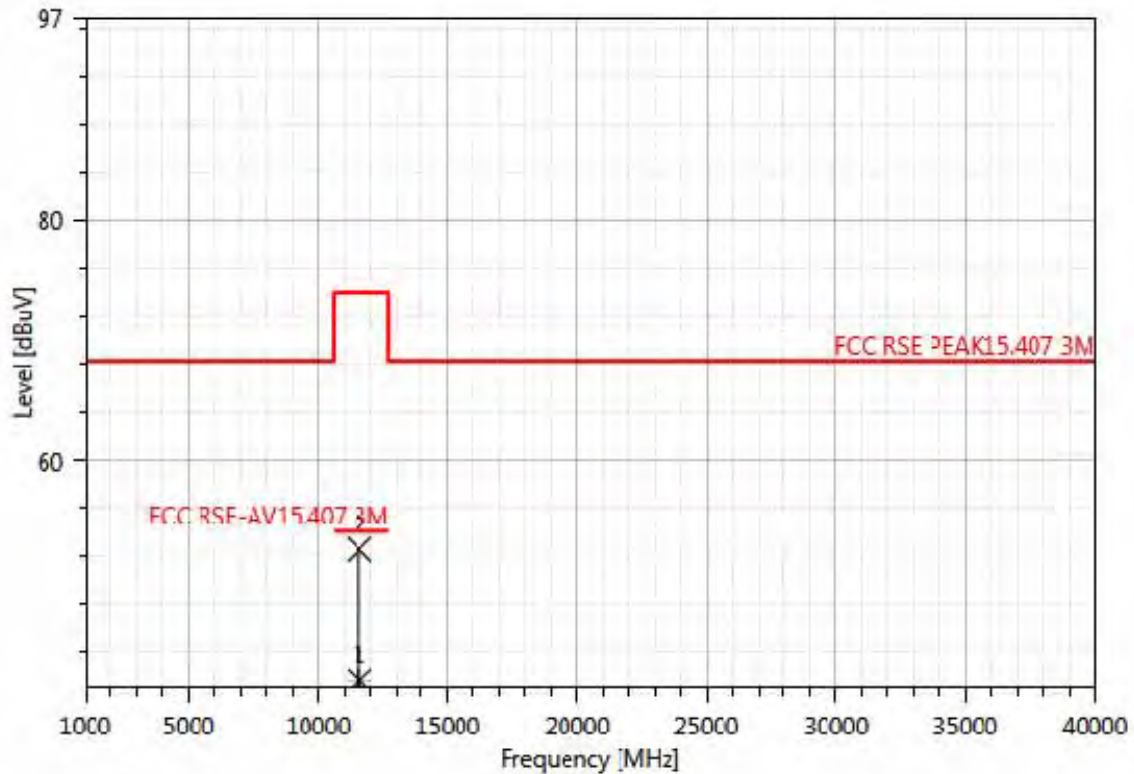
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Operation Mode : 802.11n40B4 Test Date : 08/12/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11590.00	H	Average	41.54	21.11	20.43	54.00	-12.46
11590.00	H	Peak	52.52	32.09	20.43	74.00	-21.48

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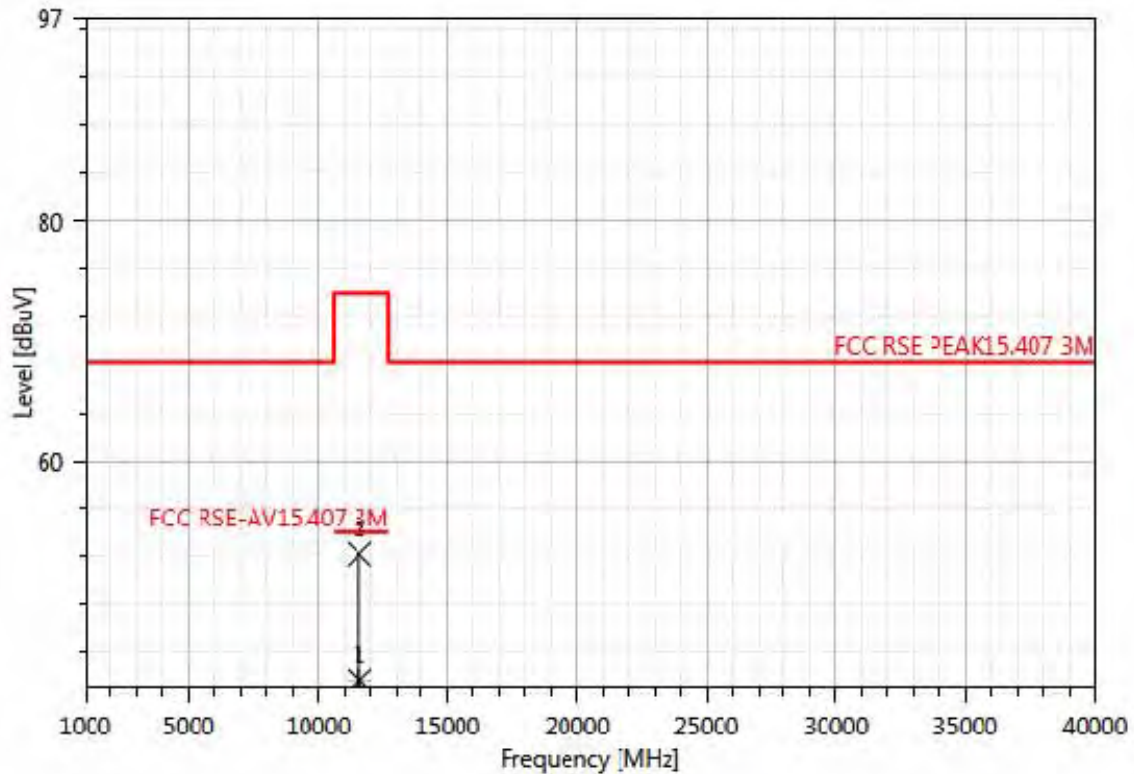
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Operation Mode :	802.11n40B4	Test Date :	08/12/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11590.00	H	Average	41.64	21.21	20.43	54.00	-12.36
11590.00	H	Peak	52.21	31.78	20.43	74.00	-21.79

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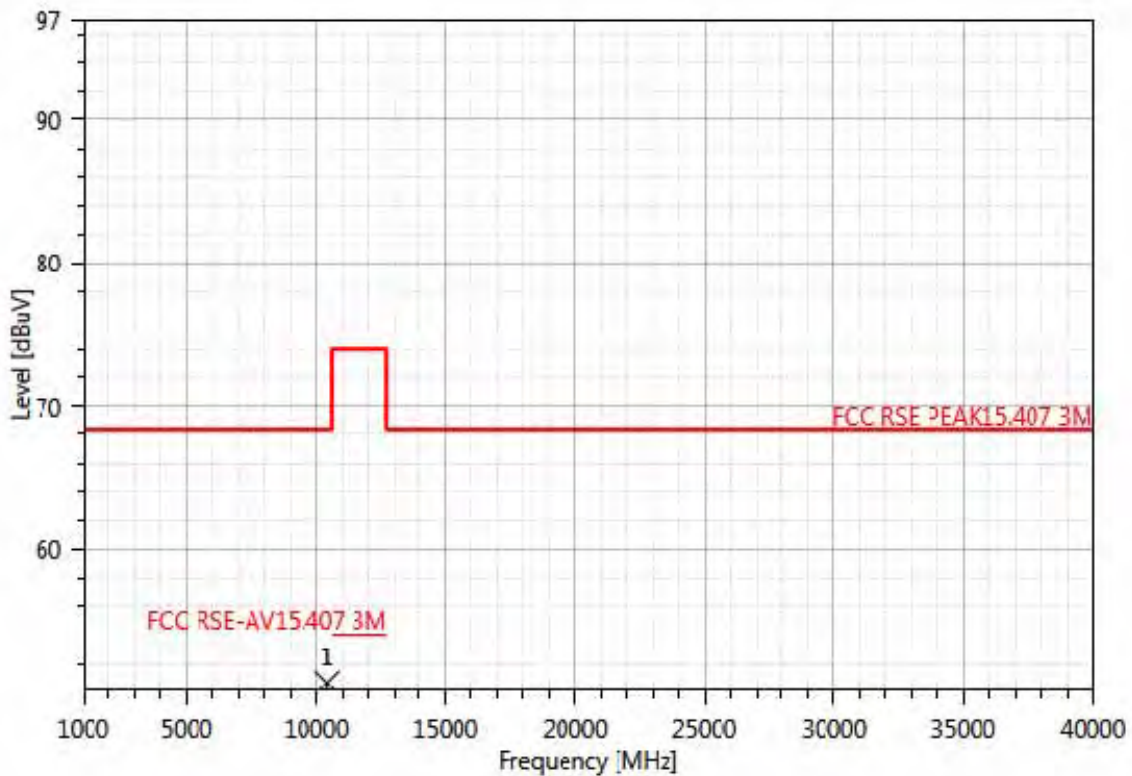
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	08/12/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
10420.00	H	Peak	50.67	31.96	18.71	68.30	-17.63

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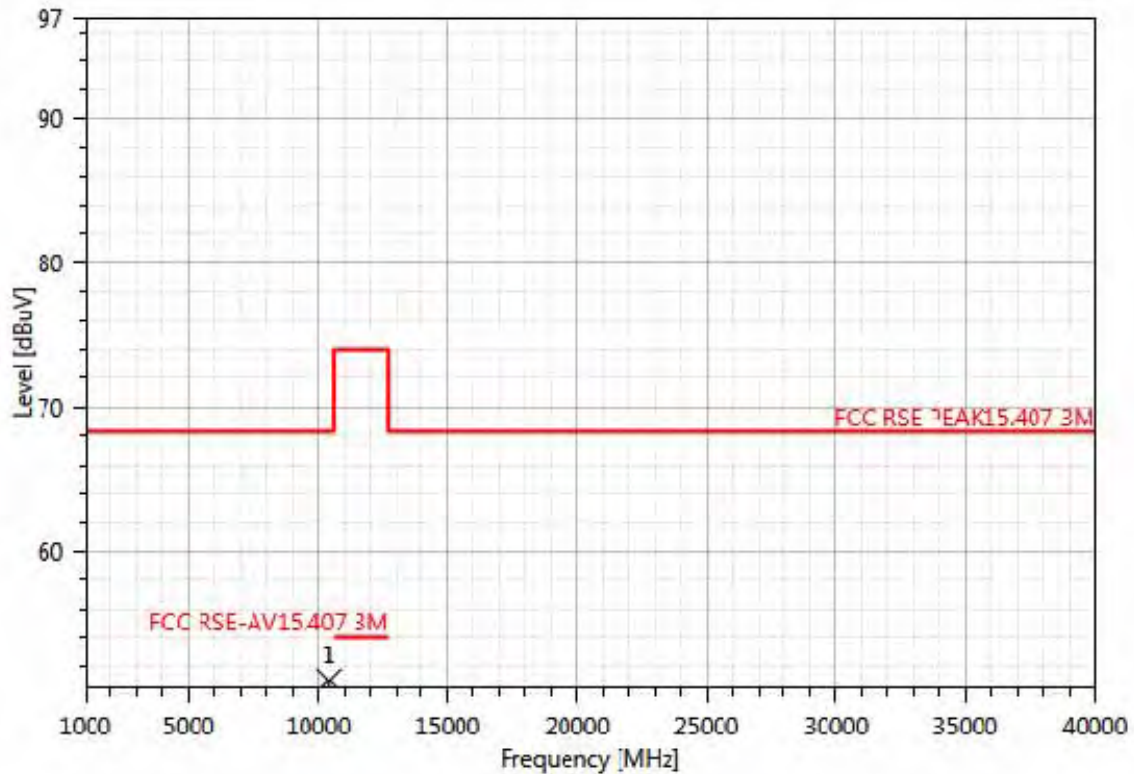
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Operation Mode : 802.11ac80B1 Test Date : 08/12/2016
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH LOW Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
10420.00	H	Peak	51.05	32.34	18.71	68.30	-17.25

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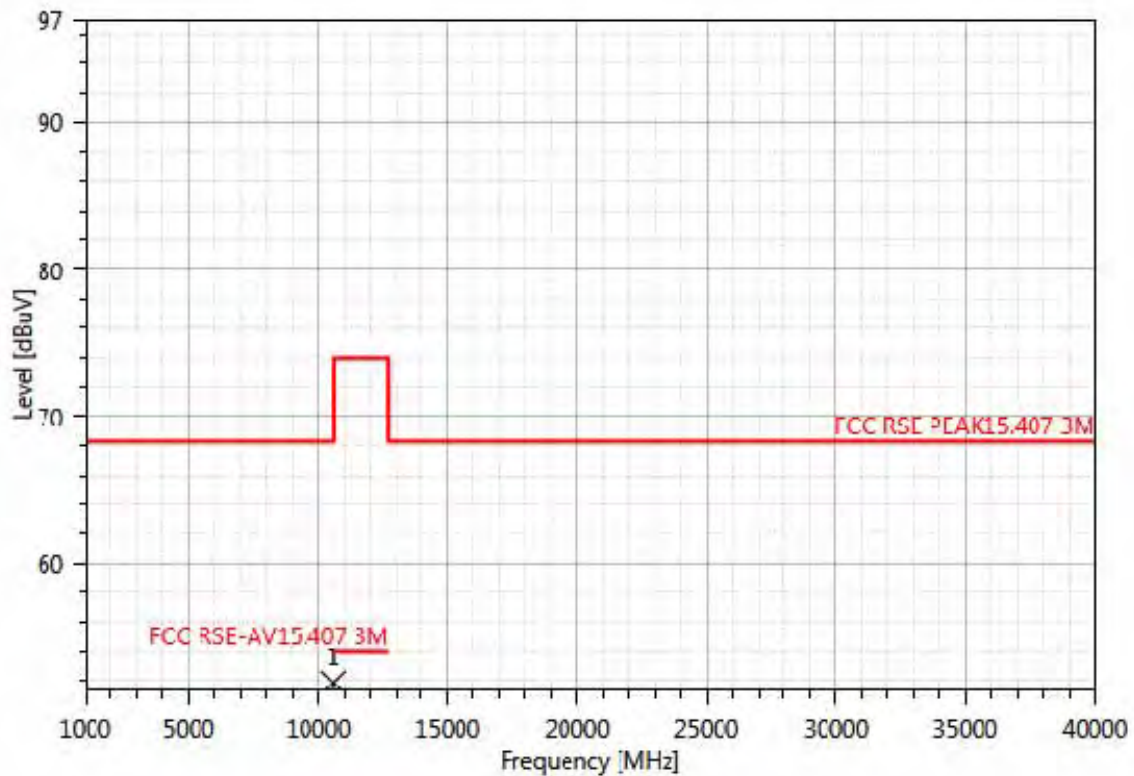
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	08/12/2016
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H 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
10580.00	H	Peak	51.90	33.03	18.88	68.30	-16.40

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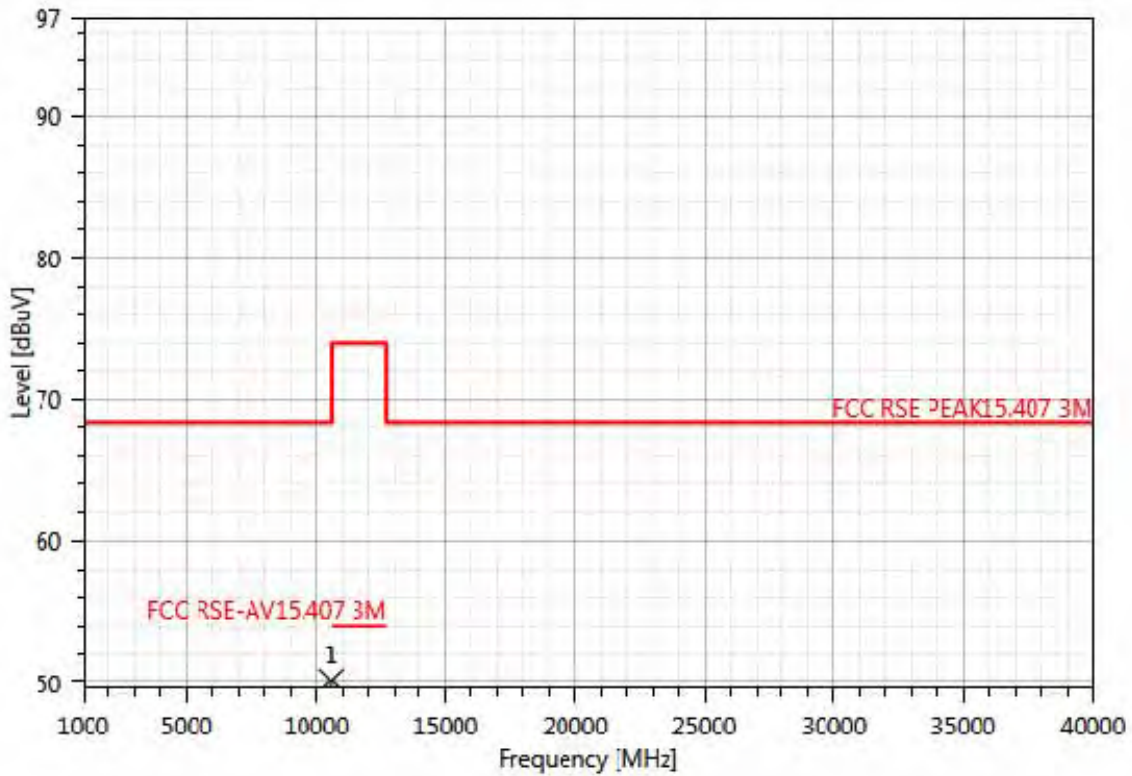
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Operation Mode : 802.11ac80B2 Test Date : 08/12/2016
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
10580.00	H	Peak	50.13	31.26	18.88	68.30	-18.17

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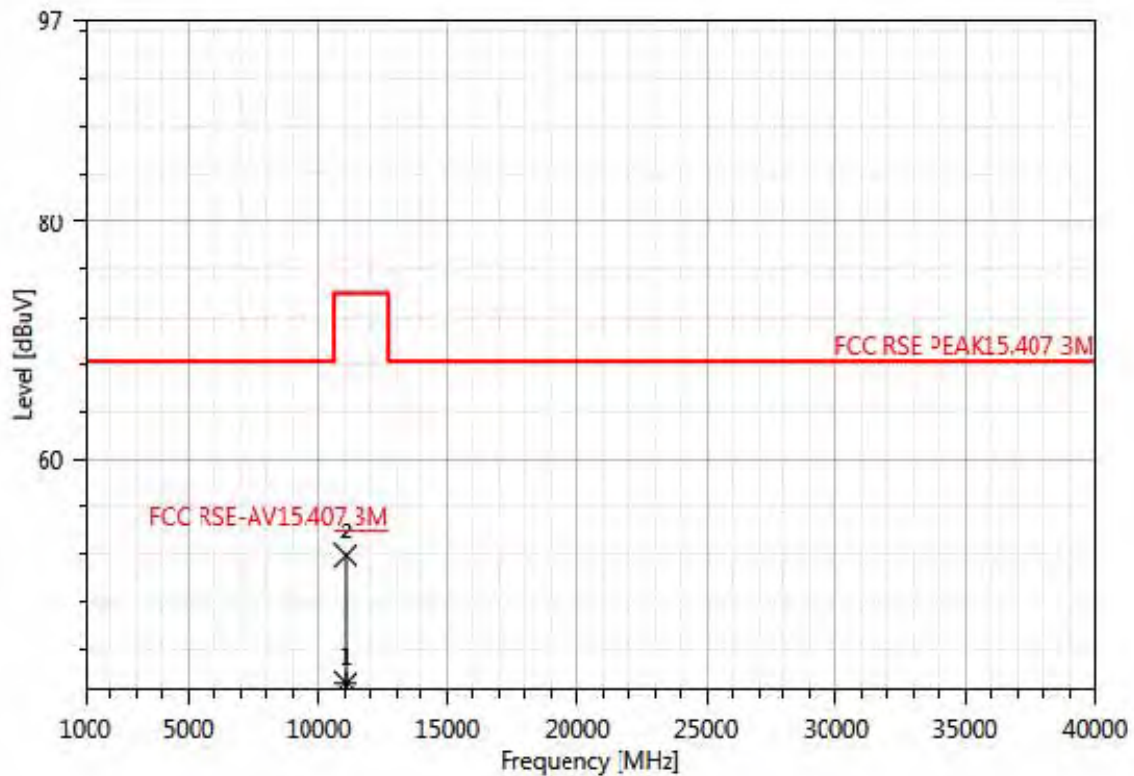
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	08/12/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
11060.00	H	Average	41.20	20.94	20.26	54.00	-12.80
11060.00	H	Peak	51.91	31.65	20.26	74.00	-22.09

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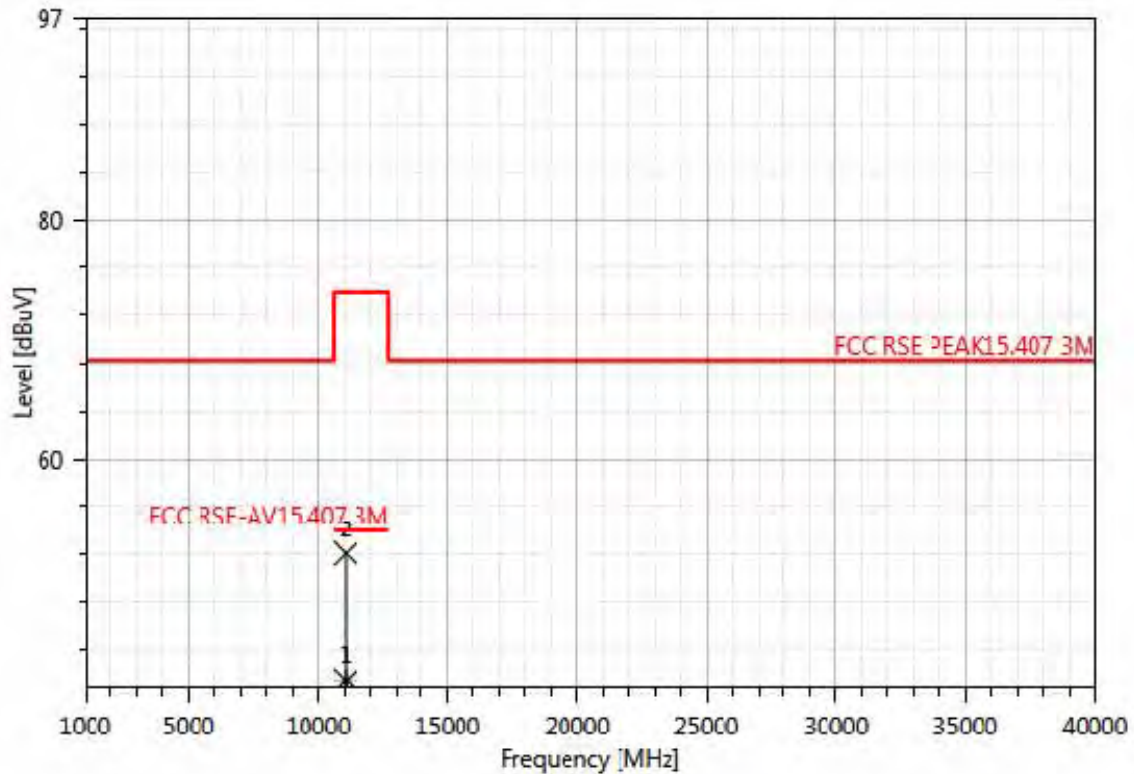
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Operation Mode : 802.11ac80B3 Test Date : 08/12/2016
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH LOW Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11060.00	H	Average	41.41	21.15	20.26	54.00	-12.59
11060.00	H	Peak	52.09	31.83	20.26	74.00	-21.91

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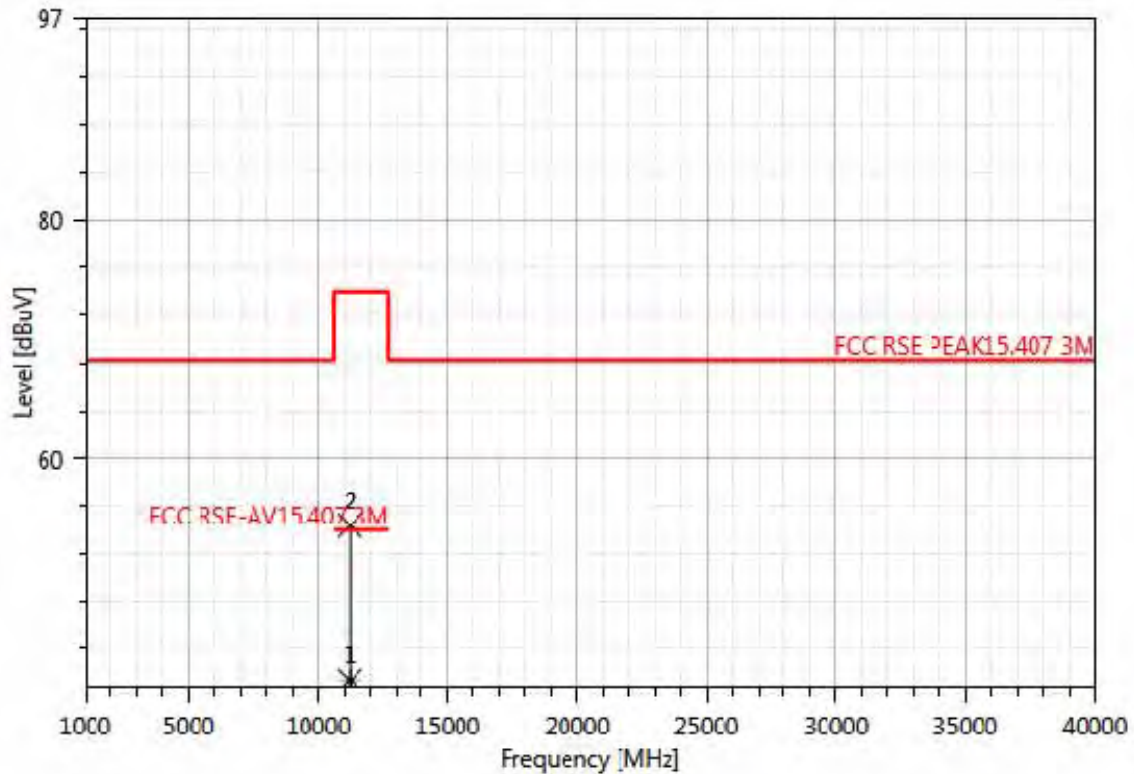
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Operation Mode : 802.11ac80B3 Test Date : 08/12/2016
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11220.00	H	Average	41.25	20.77	20.48	54.00	-12.75
11220.00	H	Peak	50.89	30.42	20.48	74.00	-23.11

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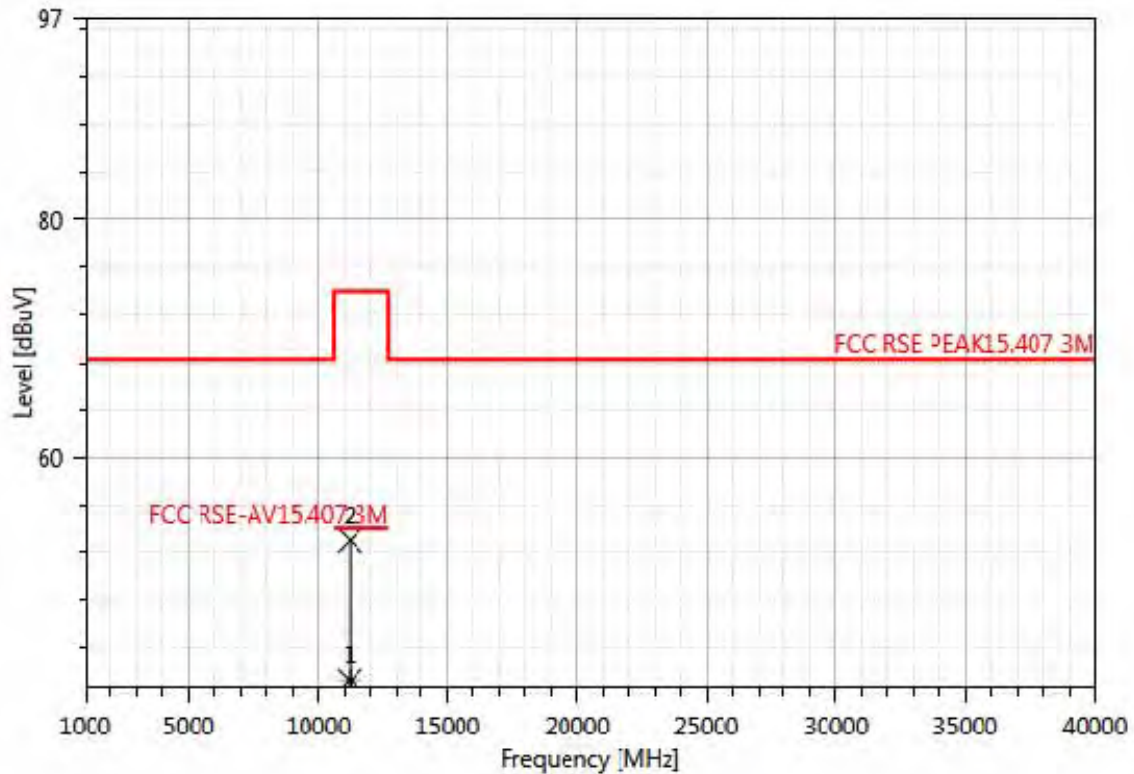
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Operation Mode : 802.11ac80B3 Test Date : 08/12/2016
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
11220.00	H	Average	41.47	20.99	20.48	54.00	-12.53
11220.00	H	Peak	51.22	30.74	20.48	74.00	-22.78

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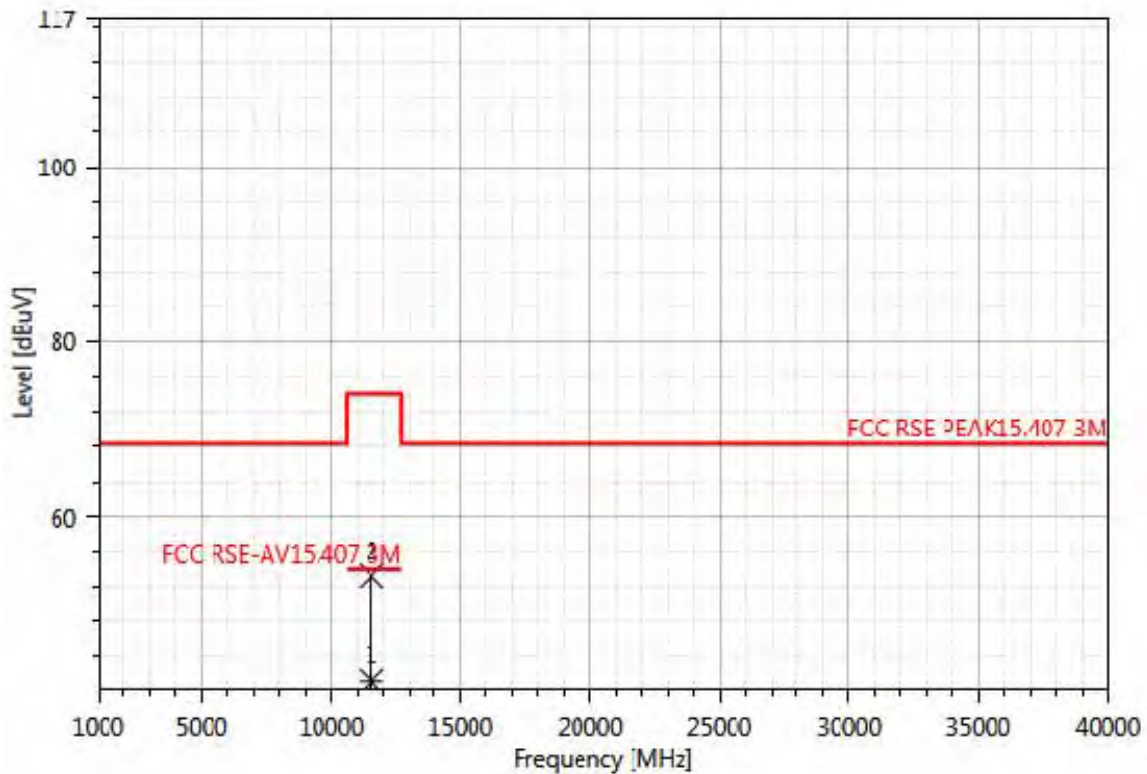
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	08/12/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H 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
11550.00	H	Average	41.58	21.06	20.52	54.00	-12.42
11550.00	H	Peak	52.14	31.62	20.52	74.00	-21.86

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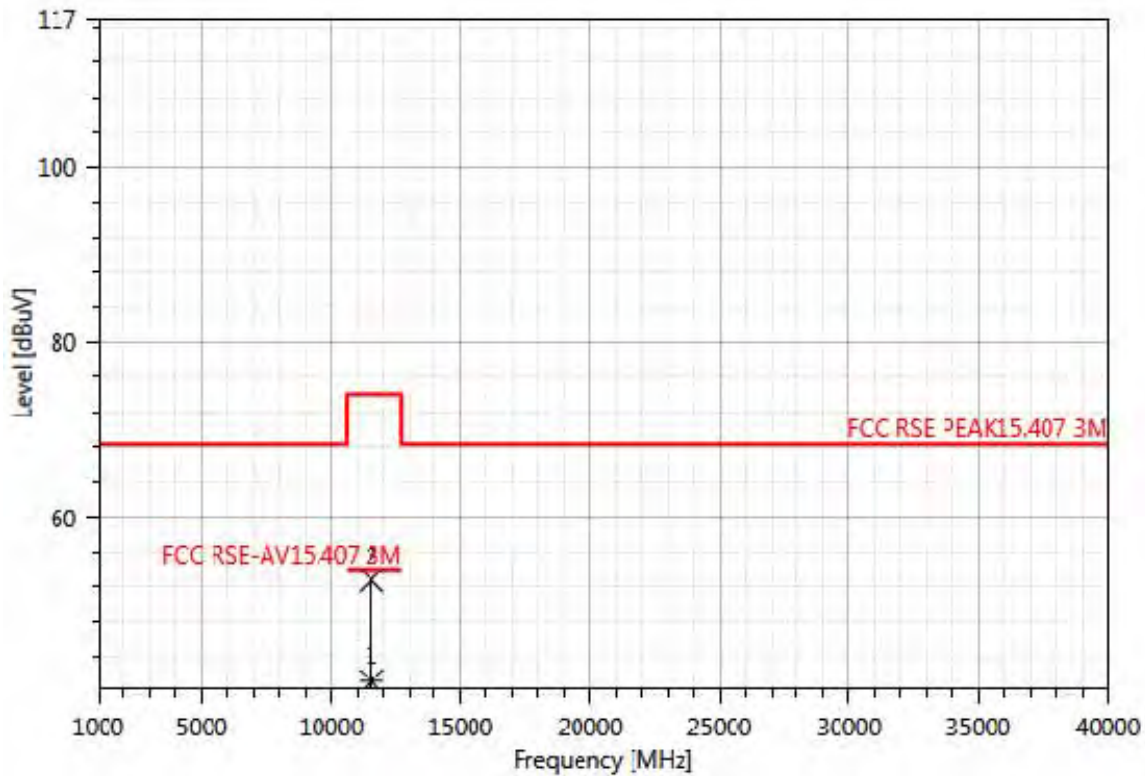
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Operation Mode :	802.11ac80B4	Test Date :	08/12/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dB μ V/m	Margin dB
11550.00	H	Average	41.61	21.09	20.52	54.00	-12.39
11550.00	H	Peak	51.53	31.01	20.52	74.00	-22.47

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Band edge falling to restricted band

802.11a mode

Operation Mode : 802.11aB1 Test Date : 08/10/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	43.67	37.79	5.88	54.00	-10.33
5150.00	E	Peak	56.07	50.19	5.88	74.00	-17.93

Operation Mode : 802.11aB1 Test Date : 08/10/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	44.21	38.33	5.88	54.00	-9.79
5150.00	E	Peak	56.14	50.26	5.88	74.00	-17.86

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Operation Mode : 802.11aB2 Test Date : 08/10/2016
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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
5350.00	E	Average	43.46	37.31	6.15	54.00	-10.54
5350.00	E	Peak	55.53	49.38	6.15	74.00	-18.47

Operation Mode : 802.11aB2 Test Date : 08/10/2016
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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
5350.00	E	Average	44.56	38.41	6.15	54.00	-9.44
5350.00	E	Peak	57.22	51.07	6.15	74.00	-16.78

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Operation Mode : 802.11aB3 Test Date : 08/10/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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
5460.00	E	Average	45.09	38.86	6.23	54.00	-8.91
5460.00	E	Peak	55.21	48.97	6.23	74.00	-18.79

Operation Mode : 802.11aB3 Test Date : 08/10/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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
5460.00	E	Average	43.78	37.55	6.23	54.00	-10.22
5460.00	E	Peak	55.71	49.48	6.23	74.00	-18.29

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Operation Mode : 802.11aB3 Test Date : 08/10/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5470.00	E	Peak	54.83	48.57	6.26	68.30	-13.47

Operation Mode : 802.11aB3 Test Date : 08/10/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5470.00	E	Peak	57.76	51.49	6.26	68.30	-10.54

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Operation Mode : 802.11aB3 Test Date : 08/10/2016
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	56.14	49.55	6.59	68.30	-12.16

Operation Mode : 802.11aB3 Test Date : 08/10/2016
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	57.98	51.39	6.59	68.30	-10.32

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Operation Mode : 802.11aB4 Test Date : 08/10/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	55.85	49.37	6.48	68.23	-12.38
5700.00	E	Peak	55.43	48.75	6.68	105.23	-49.80
5720.00	E	Peak	58.16	51.56	6.60	110.83	-52.67
5725.00	E	Peak	64.73	58.14	6.59	122.23	-57.50

Operation Mode : 802.11aB4 Test Date : 08/10/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	55.28	48.79	6.48	68.23	-12.95
5700.00	E	Peak	55.48	48.80	6.68	105.23	-49.75
5720.00	E	Peak	60.81	54.21	6.60	110.83	-50.02
5725.00	E	Peak	69.63	63.04	6.59	122.23	-52.60

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Operation Mode : 802.11aB4 Test Date : 08/10/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	56.20	48.92	7.28	122.23	-66.03
5855.00	E	Peak	56.72	49.40	7.32	110.83	-54.11
5875.00	E	Peak	56.45	49.08	7.37	105.23	-48.78
5925.00	E	Peak	57.00	49.61	7.39	68.23	-11.23

Operation Mode : 802.11aB4 Test Date : 08/10/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	59.00	51.72	7.28	122.23	-63.23
5855.00	E	Peak	56.68	49.36	7.32	110.83	-54.15
5875.00	E	Peak	56.79	49.42	7.37	105.23	-48.44
5925.00	E	Peak	56.33	48.94	7.39	68.23	-11.90

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802.11n20 HT mode

Operation Mode : 802.11n20B1 Test Date : 08/10/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dBu V/m	dB
5150.00	E	Average	36.66	30.78	5.88	54.00	-17.34
5150.00	E	Peak	50.74	44.86	5.88	74.00	-23.26

Operation Mode : 802.11n20B1 Test Date : 08/10/2016
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dBu V/m	dB
5150.00	E	Average	40.30	34.42	5.88	54.00	-13.70
5150.00	E	Peak	52.33	46.45	5.88	74.00	-21.67

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Operation Mode : 802.11n20B2 Test Date : 08/10/2016
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5350.00	E	Average	38.04	31.89	6.15	54.00	-15.96
5350.00	E	Peak	50.86	44.71	6.15	74.00	-23.14

Operation Mode : 802.11n20B2 Test Date : 08/10/2016
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5350.00	E	Average	40.95	34.80	6.15	54.00	-13.05
5350.00	E	Peak	54.19	48.03	6.15	74.00	-19.81

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Operation Mode : 802.11n20B3 Test Date : 08/10/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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
5460.00	E	Average	38.21	31.98	6.23	54.00	-15.79
5460.00	E	Peak	50.94	44.71	6.23	74.00	-23.06

Operation Mode : 802.11n20B3 Test Date : 08/10/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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
5460.00	E	Average	38.19	31.96	6.23	54.00	-15.81
5460.00	E	Peak	49.84	43.60	6.23	74.00	-24.16

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Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5470.00	E	Peak	52.15	45.88	6.26	68.30	-16.15

Operation Mode : 802.11n20B3 Test Date : 08/10/2016
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5470.00	E	Peak	52.72	46.45	6.26	68.30	-15.58

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Operation Mode : 802.11n20B3 Test Date : 08/10/2016
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	48.67	42.08	6.59	68.30	-19.63

Operation Mode : 802.11n20B3 Test Date : 08/10/2016
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	56.59	50.00	6.59	68.30	-11.71

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Operation Mode : 802.11n20B4 Test Date : 08/10/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	45.77	39.28	6.48	68.23	-22.46
5700.00	E	Peak	45.85	39.17	6.68	105.23	-59.38
5720.00	E	Peak	51.87	45.27	6.60	110.83	-58.96
5725.00	E	Peak	58.15	51.56	6.59	122.23	-64.08

Operation Mode : 802.11n20B4 Test Date : 08/10/2016
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	49.15	42.67	6.48	68.23	-19.08
5700.00	E	Peak	50.09	43.42	6.68	105.23	-55.14
5720.00	E	Peak	60.11	53.51	6.60	110.83	-50.72
5725.00	E	Peak	67.93	61.34	6.59	122.23	-54.30

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Operation Mode : 802.11n20B4 Test Date : 08/10/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	50.58	43.30	7.28	122.23	-71.65
5855.00	E	Peak	47.69	40.37	7.32	110.83	-63.14
5875.00	E	Peak	47.00	39.63	7.37	105.23	-58.23
5925.00	E	Peak	46.59	39.20	7.39	68.23	-21.64

Operation Mode : 802.11n20B4 Test Date : 08/10/2016
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	56.71	49.42	7.28	122.23	-65.52
5855.00	E	Peak	51.12	43.80	7.32	110.83	-59.71
5875.00	E	Peak	49.15	41.78	7.37	105.23	-56.08
5925.00	E	Peak	48.51	41.12	7.39	68.23	-19.72

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802.11n40 HT mode

Operation Mode : 802.11n40B1 Test Date : 08/10/2016
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	41.92	36.04	5.88	54.00	-12.08
5150.00	E	Peak	57.96	52.08	5.88	74.00	-16.04

Operation Mode : 802.11n40B1 Test Date : 08/10/2016
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	46.60	40.72	5.88	54.00	-7.40
5150.00	E	Peak	60.57	54.69	5.88	74.00	-13.43

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Operation Mode : 802.11n40B2 Test Date : 08/10/2016
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dBu V/m	dB
5350.00	E	Average	43.45	37.30	6.15	54.00	-10.55
5350.00	E	Peak	56.14	49.99	6.15	74.00	-17.86

Operation Mode : 802.11n40B2 Test Date : 08/10/2016
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dBu V/m	dB
5350.00	E	Average	47.71	41.56	6.15	54.00	-6.29
5350.00	E	Peak	61.09	54.94	6.15	74.00	-12.91

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Operation Mode : 802.11n40B3 Test Date : 08/10/2016
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dBu V/m	dB
5460.00	E	Average	37.49	31.26	6.23	54.00	-16.51
5460.00	E	Peak	50.25	44.02	6.23	74.00	-23.75

Operation Mode : 802.11n40B3 Test Date : 08/10/2016
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dBu V/m	dB
5460.00	E	Average	43.79	37.56	6.23	54.00	-10.21
5460.00	E	Peak	55.99	49.76	6.23	74.00	-18.01

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Operation Mode : 802.11n40B3 Test Date : 08/10/2016
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
5470.00	E	Peak	57.48	51.22	6.26	68.30	-10.82

Operation Mode : 802.11n40B3 Test Date : 08/10/2016
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dBuV/m	dB
5470.00	E	Peak	62.97	56.70	6.26	68.30	-5.33

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Operation Mode : 802.11n40B3 Test Date : 08/10/2016
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	45.52	38.93	6.59	68.30	-22.78

Operation Mode : 802.11n40B3 Test Date : 08/10/2016
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5725.00	E	Peak	53.69	47.10	6.59	68.30	-14.61

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Operation Mode : 802.11n40B4 Test Date : 08/10/2016
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	45.86	39.38	6.48	68.23	-22.37
5700.00	E	Peak	46.68	40.01	6.68	105.23	-58.55
5720.00	E	Peak	56.25	49.65	6.60	110.83	-54.58
5725.00	E	Peak	58.23	51.64	6.59	122.23	-64.00

Operation Mode : 802.11n40B4 Test Date : 08/10/2016
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	49.51	43.03	6.48	68.23	-18.72
5700.00	E	Peak	51.90	45.22	6.68	105.23	-53.33
5720.00	E	Peak	67.02	60.42	6.60	110.83	-43.81
5725.00	E	Peak	67.87	61.28	6.59	122.23	-54.36

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Operation Mode : 802.11n40B4 Test Date : 08/10/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	48.61	41.32	7.28	122.23	-73.62
5855.00	E	Peak	47.45	40.13	7.32	110.83	-63.38
5875.00	E	Peak	46.64	39.27	7.37	105.23	-58.59
5925.00	E	Peak	46.67	39.28	7.39	68.23	-21.56

Operation Mode : 802.11n40B4 Test Date : 08/10/2016
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	52.06	44.77	7.28	122.23	-70.17
5855.00	E	Peak	50.83	43.51	7.32	110.83	-60.00
5875.00	E	Peak	49.28	41.91	7.37	105.23	-55.95
5925.00	E	Peak	50.11	42.72	7.39	68.23	-18.12

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802.11ac80 VHT mode

Operation Mode : 802.11ac80B1 Test Date : 08/10/2016
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	44.22	38.33	5.88	54.00	-9.78
5150.00	E	Peak	58.26	52.38	5.88	74.00	-15.74

Operation Mode : 802.11ac80B1 Test Date : 08/10/2016
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	47.78	41.90	5.88	54.00	-6.22
5150.00	E	Peak	61.72	55.84	5.88	74.00	-12.28

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Operation Mode : 802.11ac80B2 Test Date : 08/10/2016
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5350.00	E	Average	41.90	35.75	6.15	54.00	-12.10
5350.00	E	Peak	54.63	48.47	6.15	74.00	-19.37

Operation Mode : 802.11ac80B2 Test Date : 08/10/2016
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5350.00	E	Average	48.54	42.39	6.15	54.00	-5.46
5350.00	E	Peak	64.03	57.88	6.15	74.00	-9.97

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Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dBu V/m	dB
5460.00	E	Average	45.87	39.64	6.23	54.00	-8.13
5460.00	E	Peak	59.50	53.27	6.23	74.00	-14.50

Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dBu V/m	dB
5460.00	E	Average	48.79	42.56	6.23	54.00	-5.21
5460.00	E	Peak	62.68	56.44	6.23	74.00	-11.32

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Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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
5470.00	E	Peak	60.43	54.16	6.26	68.30	-7.87

Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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
5470.00	E	Peak	63.21	56.94	6.26	68.30	-5.09

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Operation Mode : 802.11ac80B4 Test Date : 08/10/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	54.35	47.87	6.48	68.23	-13.88
5700.00	E	Peak	56.60	49.93	6.68	105.23	-48.63
5720.00	E	Peak	58.32	51.72	6.60	110.83	-52.51
5725.00	E	Peak	60.99	54.40	6.59	122.23	-61.24

Operation Mode : 802.11ac80B4 Test Date : 08/10/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5650.00	E	Peak	58.09	51.61	6.48	68.23	-10.14
5700.00	E	Peak	62.87	56.19	6.68	105.23	-42.36
5720.00	E	Peak	64.30	57.70	6.60	110.83	-46.53
5725.00	E	Peak	66.69	60.10	6.59	122.23	-55.54

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 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	52.38	45.10	7.28	122.23	-69.85
5855.00	E	Peak	49.64	42.32	7.32	110.83	-61.19
5875.00	E	Peak	49.09	41.72	7.37	105.23	-56.14
5925.00	E	Peak	46.83	39.44	7.39	68.23	-21.40

Operation Mode : 802.11ac80B4 Test Date : 08/10/2016
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : H 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	dB μ V/m	dB μ V/m	dB	dB μ V/m	dB
5850.00	E	Peak	56.69	49.41	7.28	122.23	-65.54
5855.00	E	Peak	54.87	47.55	7.32	110.83	-55.96
5875.00	E	Peak	52.62	45.25	7.37	105.23	-52.61
5925.00	E	Peak	50.37	42.98	7.39	68.23	-17.86

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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

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13. FREQUENCY STABILITY

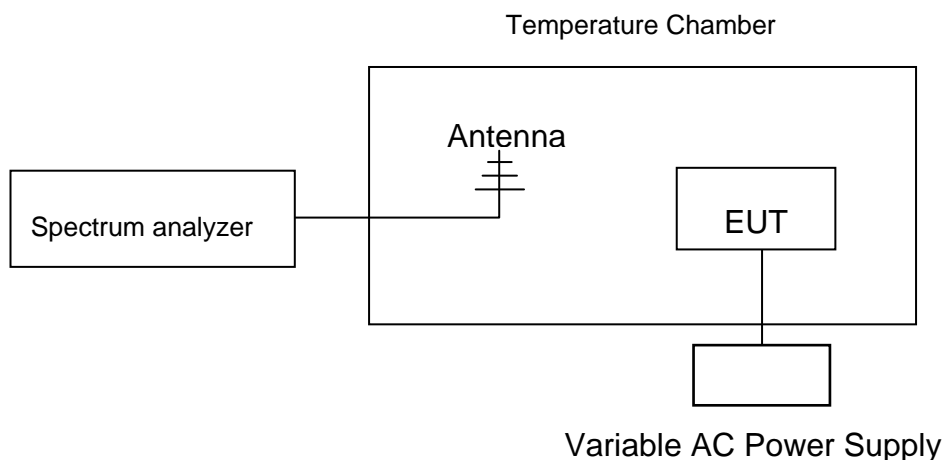
13.1 Standard Applicable

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 Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2016.08.10
Temperature	:17	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	3.63V	36	5180	5,179.90991	0.00001739
		44	5220	5,219.88013	0.00002296
		48	5240	5,239.90991	0.00001719
		52	5260	5,259.91016	0.00001708
		60	5300	5,299.91016	0.00001695
		64	5320	5,319.88013	0.00002253
		100	5500	5,499.91016	0.00001634
		116	5580	5,579.92505	0.00001343
		140	5700	5,699.89502	0.00001842
		149	5745	5,744.85010	0.00002609
		157	5785	5,784.84985	0.00002595
		165	5825	5,824.92505	0.00001287
	2.97V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.89502	0.00002011
		48	5240	5,239.91016	0.00001715
		52	5260	5,259.92505	0.00001425
		60	5300	5,299.89502	0.00001981
		64	5320	5,319.89502	0.00001973
		100	5500	5,499.90991	0.00001638
		116	5580	5,579.91016	0.00001610
		140	5700	5,699.90991	0.00001580
		149	5745	5,744.83496	0.00002873
		157	5785	5,784.89502	0.00001815
		165	5825	5,824.88013	0.00002058

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25	3.3V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.89502	0.00002011
		48	5240	5,239.90991	0.00001719
		52	5260	5,259.85010	0.00002850
		60	5300	5,299.87988	0.00002266
		64	5320	5,319.91016	0.00001689
		100	5500	5,499.90991	0.00001638
		116	5580	5,579.90991	0.00001614
		140	5700	5,699.88013	0.00002103
		149	5745	5,744.92505	0.00001305
		157	5785	5,784.91016	0.00001553
		165	5825	5,824.86499	0.00002318

55	3.63V	36	5180	5,179.89502	0.00002027
		44	5220	5,219.86499	0.00002586
		48	5240	5,239.92505	0.00001430
		52	5260	5,259.87988	0.00002284
		60	5300	5,299.91016	0.00001695
		64	5320	5,319.81982	0.00003387
		100	5500	5,499.91016	0.00001634
		116	5580	5,579.91016	0.00001610
		140	5700	5,699.91016	0.00001576
		149	5745	5,744.89502	0.00001827
		157	5785	5,784.90991	0.00001557
		165	5825	5,824.88013	0.00002058
	2.97V	36	5180	5,179.91016	0.00001734
		44	5220	5,219.84985	0.00002876
		48	5240	5,239.91016	0.00001715
		52	5260	5,259.91016	0.00001708
		60	5300	5,299.88013	0.00002262
		64	5320	5,319.88013	0.00002253
		100	5500	5,499.94019	0.00001088
		116	5580	5,579.84985	0.00002691
		140	5700	5,699.91016	0.00001576
		149	5745	5,744.89502	0.00001827
		157	5785	5,784.89502	0.00001815
		165	5825	5,824.91016	0.00001542

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Operation Mode	802.11 n_HT40	Test Date	2016.08.10
Temperature	:17	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	3.63V	38	5190	5,189.87500	0.00002408
		46	5230	5,229.87500	0.00002390
		54	5270	5,269.87500	0.00002372
		62	5310	5,309.89990	0.00001885
		102	5510	5,509.77490	0.00004085
		110	5550	5,549.87500	0.00002252
		134	5670	5,669.95020	0.00000878
		151	5755	5,754.90015	0.00001735
		159	5795	5,794.82520	0.00003016
	2.97V	38	5190	5,189.82495	0.00003373
		46	5230	5,229.87500	0.00002390
		54	5270	5,269.82495	0.00003322
		62	5310	5,309.82495	0.00003297
		102	5510	5,509.87500	0.00002269
		110	5550	5,549.92505	0.00001350
		134	5670	5,669.87500	0.00002205
		151	5755	5,754.82495	0.00003042
		159	5795	5,794.82495	0.00003021

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25	3.3V	38	5190	5,189.90015	0.00001924
		46	5230	5,229.84985	0.00002871
		54	5270	5,269.87500	0.00002372
		62	5310	5,309.87500	0.00002354
		102	5510	5,509.82495	0.00003177
		110	5550	5,549.92505	0.00001350
		134	5670	5,669.82495	0.00003087
		151	5755	5,754.82495	0.00003042
		159	5795	5,794.80005	0.00003450
55	3.63V	38	5190	5,189.92505	0.00001444
		46	5230	5,229.92505	0.00001433
		54	5270	5,269.87500	0.00002372
		62	5310	5,309.90015	0.00001880
		102	5510	5,509.85010	0.00002721
		110	5550	5,549.87500	0.00002252
		134	5670	5,669.85010	0.00002644
		151	5755	5,754.87500	0.00002172
		159	5795	5,794.82495	0.00003021
	2.97V	38	5190	5,189.82495	0.00003373
		46	5230	5,229.84985	0.00002871
		54	5270	5,269.90015	0.00001895
		62	5310	5,309.85010	0.00002823
		102	5510	5,509.87500	0.00002269
		110	5550	5,549.87500	0.00002252
		134	5670	5,669.87500	0.00002205
		151	5755	5,754.87500	0.00002172
		159	5795	5,794.87500	0.00002157

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Operation Mode	802.11 ac_VHT80	Test Date	2016.08.10
Temperature	:17	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	3.63V	42	5210	5,209.80005	0.00003838
		58	5290	5,289.90015	0.00001888
		106	5530	5,529.80005	0.00003616
		122	5610	5,609.80005	0.00003564
		155	5775	5,774.69995	0.00005196
	2.97V	42	5210	5,209.90015	0.00001917
		58	5290	5,289.75000	0.00004726
		106	5530	5,529.80005	0.00003616
		122	5610	5,609.90015	0.00001780
		155	5775	5,774.90015	0.00001729
25	3.3V	42	5210	5,209.90015	0.00001917
		58	5290	5,289.85010	0.00002834
		106	5530	5,529.85010	0.00002711
		122	5610	5,609.59985	0.00007133
		155	5775	5,774.75000	0.00004329
55	3.63V	42	5210	5,209.90015	0.00001917
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.80005	0.00003616
		122	5610	5,609.80005	0.00003564
		155	5775	5,774.85010	0.00002596
	2.97V	42	5210	5,209.80005	0.00003838
		58	5290	5,289.90015	0.00001888
		106	5530	5,529.75000	0.00004521
		122	5610	5,609.75000	0.00004456
		155	5775	5,774.75000	0.00004329

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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

PIFA 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.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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15. FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

15.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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15.2 Maximum Permissible Exposure (MPE) Evaluation

802.11a Max. output power

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.44	27.797	23.98	PASS
44	5220	MCS0	14.37	27.353	23.98	PASS
48	5240	MCS0	14.24	26.546	23.98	PASS
52	5260	MCS0	14.16	26.062	23.98 or $11+10\log(B) = 23.98$	PASS
60	5300	MCS0	14.44	27.797	23.98 or $11+10\log(B) = 24.02$	PASS
64	5320	MCS0	14.47	27.990	23.98 or $11+10\log(B) = 24.04$	PASS
100	5500	MCS0	14.49	28.119	23.98 or $11+10\log(B) = 24.13$	PASS
116	5580	MCS0	14.49	28.119	23.98 or $11+10\log(B) = 24.17$	PASS
140	5700	MCS0	14.46	27.925	23.98 or $11+10\log(B) = 24.08$	PASS
149	5745	MCS0	14.49	28.119	30	PASS
157	5785	MCS0	14.48	28.054	30	PASS
165	5825	MCS0	14.22	26.424	30	PASS

MPE Prediction (802.11a 5150~5250)

Average output power at antenna input terminal:	14.44	(dBm)
Average output power at antenna input terminal:	27.797133	(mW)
Duty cycle:	100	(%)
Maximum Pav :	27.797133	(mW)
Peak Antenna gain (Maximum):	3.01	(dBi)
Peak Antenna gain (linear):	1.9998619	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5180	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.011	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.011 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5180MHz.		

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MPE Prediction (802.11a 5250~5350)

Average output power at antenna input terminal:	14.47	(dBm)
Average output power at antenna input terminal:	27.989813	(mW)
Duty cycle:	100	(%)
Maximum Pav :	27.989813	(mW)
Peak Antenna gain (Maximum):	3.01	(dBi)
Peak Antenna gain (linear):	1.9998619	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5320	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.011	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.011 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5320MHz.		

MPE Prediction (802.11a 5470~5725)

Average output power at antenna input terminal:	14.49	(dBm)
Average output power at antenna input terminal:	28.119008	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.119008	(mW)
Peak Antenna gain (Maximum):	4.11	(dBi)
Peak Antenna gain (linear):	2.5763212	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5500	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.014	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.014 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5500MHz.		

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MPE Prediction (802.11a 5725~5850)

Average output power at antenna input terminal:	14.49	(dBm)
Average output power at antenna input terminal:	28.119008	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.119008	(mW)
Peak Antenna gain (Maximum):	2.66	(dBi)
Peak Antenna gain (linear):	1.8450154	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5745	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.010	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01 mW/cm².
This is below the uncontrolled exposure limit of 1 mW/cm² at 5745MHz.

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802.11n_HT20M Max. output power

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	11.72	11.21	14.48	28.072	23.96	PASS
44	5220	MCS8	11.69	11.11	14.42	27.669	23.96	PASS
48	5240	MCS8	11.65	11.07	14.38	27.416	23.96	PASS
52	5260	MCS8	11.68	11.27	14.49	28.120	23.96 or 11+10log(B) 24.05	PASS
60	5300	MCS8	11.67	11.24	14.47	27.994	23.96 or 11+10log(B) 23.96	PASS
64	5320	MCS8	11.66	11.3	14.49	28.145	23.96 or 11+10log(B) 24.02	PASS
100	5500	MCS8	11.68	11.11	14.41	27.635	22.86 or 11+10log(B) 24.10	PASS
116	5580	MCS8	11.76	11.11	14.46	27.909	22.86 or 11+10log(B) 24.04	PASS
140	5700	MCS8	11.88	10.74	14.36	27.275	22.86 or 11+10log(B) 24.00	PASS
149	5745	MCS8	11.98	10.67	14.38	27.444	30	PASS
157	5785	MCS8	11.84	11.02	14.46	27.923	30	PASS
165	5825	MCS8	11.73	10.57	14.20	26.296	30	PASS

MPE Prediction (802.11n_HT20 5150~5250)

$$\text{MIMO gain} = G + (10 \log N) = 3.01 + 3.01 = 6.025 \text{ dBm}$$

Max. output power including tune-up tolerancel:	14.48	(dBm)
Max. output power including tune-up tolerancel:	28.05433638	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.05433638	(mW)
Peak Antenna gain (Maximum):	6.02	(dBi)
Peak Antenna gain (linear):	3.999447498	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5180	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.022	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.022 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5180MHz.

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MPE Prediction (802.11n_HT20 5250~5350)

MIMO gain= $G+(10 \log N)= 3.01+3.01= 6.02\text{dBm}$

Max. output power including tune-up tolerancel:	14.49	(dBm)
Max. output power including tune-up tolerancel:	28.119008	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.119008	(mW)
Peak Antenna gain (Maximum):	6.02	(dBi)
Peak Antenna gain (linear):	3.9994475	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5320	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.022	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.022 mW/cm².
This is below the uncontrolled exposure limit of 1 mW/cm² at 5320MHz.

MPE Prediction (802.11n_HT20 5470~5725)

MIMO gain= $G+(10 \log N)= 4.11+3.01= 7.12\text{dBm}$

Max. output power including tune-up tolerancel:	14.46	(dBm)
Max. output power including tune-up tolerancel:	27.925438	(mW)
Duty cycle:	100	(%)
Maximum Pav :	27.925438	(mW)
Peak Antenna gain (Maximum):	7.12	(dBi)
Peak Antenna gain (linear):	5.1522864	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5580	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.029	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.029 mW/cm².
This is below the uncontrolled exposure limit of 1 mW/cm² at 5580MHz.

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MPE Prediction (802.11n_HT20 5725~5850)

MIMO gain= $G+(10 \log N)= 2.66+3.01= 5.67\text{dBm}$

Max. output power including tune-up tolerancel:	14.46	(dBm)
Max. output power including tune-up tolerancel:	27.925438	(mW)
Duty cycle:	100	(%)
Maximum Pav :	27.925438	(mW)
Peak Antenna gain (Maximum):	5.67	(dBi)
Peak Antenna gain (linear):	3.689776	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5785	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.021	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.021 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5785MHz.

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802.11n_HT40M Max. output power

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	11.46	11.33	14.41	27.579	23.96	PASS
46	5230	MCS8	11.89	10.87	14.42	27.671	23.96	PASS
54	5270	MCS8	11.68	11.28	14.49	28.151	23.96 or 11+10log(B) 27.03	PASS
62	5310	MCS8	11.61	11.22	14.43	27.731	23.96 or 11+10log(B) 27.04	PASS
102	5510	MCS8	11.81	11.12	14.49	28.112	22.86 or 11+10log(B) 27.04	PASS
110	5550	MCS8	11.72	11.11	14.44	27.772	22.86 or 11+10log(B) 27.09	PASS
134	5670	MCS8	11.79	11.14	14.49	28.102	22.86 or 11+10log(B) 27.05	PASS
151	5755	MCS8	11.73	11.13	14.45	27.865	30	PASS
159	5795	MCS8	11.77	10.75	14.30	26.916	30	PASS

MPE Prediction (802.11n_HT40 5150~5250)

MIMO gain= $G+(10 \log N)= 3.01+3.01= 6.02\text{dBm}$

Average output power at antenna input terminal:	14.42	(dBm)
Average output power at antenna input terminal:	27.669416	(mW)
Duty cycle:	100	(%)
Maximum Pav :	27.669416	(mW)
Peak Antenna gain (Maximum):	6.02	(dBi)
Peak Antenna gain (linear):	3.9994475	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5230	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.022	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.022 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5230MHz.

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MPE Prediction (802.11n_HT40 5250~5350)

MIMO gain= $G+(10 \log N)= 3.01+3.01= 6.02\text{dBm}$

Average output power at antenna input terminal:	14.49	(dBm)
Average output power at antenna input terminal:	28.119008	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.119008	(mW)
Peak Antenna gain (Maximum):	6.02	(dBi)
Peak Antenna gain (linear):	3.9994475	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5270	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.022	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.022 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5270MHz.		

MPE Prediction (802.11n_HT40 5470~5725)

MIMO gain= $G+(10 \log N)= 4.11+3.01= 7.12\text{dBm}$

Average output power at antenna input terminal:	14.49	(dBm)
Average output power at antenna input terminal:	28.119008	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.119008	(mW)
Peak Antenna gain (Maximum):	7.12	(dBi)
Peak Antenna gain (linear):	5.1522864	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5510	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.029	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.029 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5510MHz.

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MPE Prediction (802.11n_HT40 5725~5850)

MIMO gain= $G+(10 \log N)= 2.66+3.01= 5.67\text{dBm}$

Average output power at antenna input terminal:	14.45	(dBm)
Average output power at antenna input terminal:	27.861212	(mW)
Duty cycle:	100	(%)
Maximum Pav :	27.861212	(mW)
Peak Antenna gain (Maximum):	5.67	(dBi)
Peak Antenna gain (linear):	3.689776	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5755	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.020	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.02 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5755MHz.

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802.11ac VHT80M Max. output power

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
42	5210	MCS8	11.1	11.3	14.21	26.372	23.96		PASS
58	5290	MCS8	11.28	11.18	14.24	26.550	23.96	or 11+10log(B) 30.08	PASS
106	5530	MCS8	11.75	10.27	14.08	25.604	22.86	or 11+10log(B) 30.05	PASS
122	5610	MCS8	11.11	11.23	14.18	26.186	22.86	or 11+10log(B) 30.07	PASS
155	5775	MCS8	11.26	10.89	14.09	25.640	30		PASS

MPE Prediction (802.11ac_VHT80 5150~5250)

MIMO gain= $G+(10 \log N)= 3.01+3.01= 6.02\text{dBm}$

Average output power at antenna input terminal:	14.21	(dBm)
Average output power at antenna input terminal:	26.363314	(mW)
Duty cycle:	100	(%)
Maximum Pav :	26.363314	(mW)
Peak Antenna gain (Maximum):	6.02	(dBi)
Peak Antenna gain (linear):	3.9994475	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5210	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.021	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.021 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5210MHz.

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MPE Prediction (802.11ac_VHT80 5250~5350)

MIMO gain= $G+(10 \log N)= 3.01+3.01= 6.02\text{dBm}$

Average output power at antenna input terminal:	14.24	(dBm)
Average output power at antenna input terminal:	26.546056	(mW)
Duty cycle:	100	(%)
Maximum Pav :	26.546056	(mW)
Peak Antenna gain (Maximum):	6.02	(dBi)
Peak Antenna gain (linear):	3.9994475	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5290	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.021	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.021 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5290MHz.		

MPE Prediction (802.11ac_VHT80 5470~5725)

MIMO gain= $G+(10 \log N)= 4.11+3.01= 7.12\text{dBm}$

Average output power at antenna input terminal:	14.18	(dBm)
Average output power at antenna input terminal:	26.18183	(mW)
Duty cycle:	100	(%)
Maximum Pav :	26.18183	(mW)
Peak Antenna gain (Maximum):	7.12	(dBi)
Peak Antenna gain (linear):	5.1522864	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5610	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.027	(mW/cm ²)
Measurement Result		
The predicted power density level at 20 cm is 0.027 mW/cm ² .		
This is below the uncontrolled exposure limit of 1 mW/cm ² at 5610MHz.		

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MPE Prediction (802.11ac_VHT80 5725~5850)

MIMO gain= $G+(10 \log N)= 2.66+3.01= 5.67\text{dBm}$

Average output power at antenna input terminal:	14.09	(dBm)
Average output power at antenna input terminal:	25.64484	(mW)
Duty cycle:	100	(%)
Maximum Pav :	25.64484	(mW)
Peak Antenna gain (Maximum):	5.67	(dBi)
Peak Antenna gain (linear):	3.689776	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5775	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.019	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.019 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5775MHz.

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Collocated MPE Analysis:

The modem may transmit simultaneously with other collocated radio transmitters within a host device, provided the following conditions are met:

- Each collocated radio transmitter has been certified by FCC for mobile application (that will be met since SQNS module will have its own FCC ID and host device will have its own FCC ID)
- At least 20 cm separation distance between the antennas of the collocated transmitters and the user's body must be maintained at all times (host installation should taking care of that)

The output power and antenna gain in a collocated configuration must not exceed the limits and configurations stipulated in the following table 1. The power density calculations for the individual transmitters per wireless technology at an exposure minimum separation distance of 20cm.

Exclusion of test condition:

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on calculated or measured field strengths or power density, is ≤ 1.0 .

$$MPE\ ratio1 + MPE\ ratio2 + MPE\ ratio3 \leq 1.0$$

The spreadsheet as FCC deduces, and releases is employed to conduct the measurement:

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Table 1: Collocated MPE Calculation (Worst-case table)

Technology	Frequency (MHz)	Max Conducted Power (dBm)	Max Gain (dBi)	Duty Cycle	FCC Power Density @20cm (mW/cm ²)	FCC MPE Limit (mW/cm ²)
BT (BR)	2480	1.28	3.11	0.58	0.000	1.000
WLAN (802.11n 20)	2452	16.46	6.37	1	0.038	1.000
UNII (802.11 n 20)	5320	14.49	6.02	1	0.022	1.000

Scenario 1:

BT +WLAN +UNII

BT (mW/c m ²)	FCC MPE Limit (mW/c m ²)	(BT) / MPE Result	WLAN (mW/c m ²)	FCC MPE Limit (mW/c m ²)	(WLAN) / MPE Result	UNII (mW/c m ²)	FCC MPE Limit (mW/c m ²)	(UNII) / MPE Result	(BT +WLAN +UNII)	FCC Limit (mW/c m ²)
0.000	1.000	0	0.038	1.000	0.038	0.022	1.000	0.022	0.06	1.000

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