

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

**Brand Name:** Sony  
**FCC ID:** PY7-46331W  
**Report No.:** ER/2017/20019  
**Issue Date:** Sep. 05, 2017  
**FCC Rule Part:** §15.407

**Prepared for:** Sony Mobile Communications Inc.  
 4-12-3, Higashi-Shinagawa, Shinagawa-ku,  
 Tokyo, 140-0002 Japan

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



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## VERIFICATION OF COMPLIANCE

**Applicant:** Sony Mobile Communications Inc.  
4-12-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002 Japan

**Brand Name:** Sony

**FCC ID:** PY7-46331W

**File Number:** ER/2017/20019

**Date of Test:** Dec. 12, 2016 ~ Jul. 13, 2017 (Conducted)  
Feb. 06, 2017 ~ Mar. 01, 2017 (Radiated)  
Aug. 17, 2017(Update for 5720MHz Condcuted & Radiated Test)

**Date of EUT Received:** Dec. 12, 2016

### We hereby certify that:

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

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

**Test By:**

*Louis Chen*

**Date:**

Sep. 05, 2017

*Louis Chen / Engineer*

**Prepared By:**

*Violetta Tang*

**Date:**

Sep. 05, 2017

*Violetta Tang / Clerk*

**Approved By:**

*Jim Chang*

**Date:**

Sep. 05, 2017

*Jim Chang / Asst. Manager*

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2017/20019	Rev.00	Initial creation of document	Feb. 21, 2017
ER/2017/20019	Rev.01	Update radiated band edge test results of 802.11 n20 B3, 5500MHz on page 195~196	Mar. 01, 2017
ER/2017/20019	Rev.02	Update channel details on page 13~16 & test results.	Mar. 16, 2017
ER/2017/20019	Rev.03	Update conducted setup photo	Apr. 05, 2017
ER/2017/20019	Rev.04	Update description, measurement plots & setup photo	Jul. 13, 2017
ER/2017/20019	Rev.05	Update description and configuration of test system.	Aug. 16, 2017
ER/2017/20019	Rev.06	Update test results for 5720MHz.	Aug. 17, 2017
ER/2017/20019	Rev.07	Update test equipment list and test date of measurement plots.	Aug. 21, 2017
ER/2017/20019	Rev.08	Add description for the test mode; update configuration & setup photos of test system and MPE evaluation.	Aug. 30, 2017
ER/2017/20019	Rev.09	Add calculation sentences & update the data rate information of power table for 802.11a mode.	Sep. 05, 2017

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## 1. GENERAL INFORMATION

### 1.1 Product Description

General:

Brand Name:	Sony	
Hardware Version:	A	
Software Version:	0.5	
Data Cable (USB):	Model No.: UCB20, Supplier: Sony, Length: 100cm	
Power Supply:	3.8Vdc	
	Battery:	Model No.: N/A, Supplier: N/A
	Adapter :	Model No.: ACH10E, Supplier: Sony

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	15.33 dBm	OFDM
	5250~5350	4	15.12 dBm	
	5470~5725	12	16.04 dBm	
	5720~5720	1	11.44dBm	
	5725~5850	5	13.23 dBm	
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 15.05 dBm (Worst Case)	OFDM
	HT / VHT20 5250~5350	4	HT: 14.84 dBm (Worst Case)	
	HT / VHT20 5470~5725	11	HT: 15.71 dBm (Worst Case)	
	VHT20 5720~5720	1	VHT: 11.73dBm (Worst Case)	
	HT / VHT20 5725~5850	5	HT: 12.88 dBm (Worst Case)	
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 14.43 dBm (Worst Case)	OFDM
	HT / VHT40 5250~5350	2	HT: 14.40 dBm (Worst Case)	
	HT / VHT40 5470~5725	5	HT: 14.68 dBm (Worst Case)	
	VHT40 5710~5710	1	VHT: 13.00dBm (Worst Case)	
	HT / VHT40 5725~5850	2	HT: 12.70 dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	6.73 dBm	OFDM
	VHT80 5250~5350	1	10.47 dBm	
	VHT80 5470~5725	2	9.92 dBm	
	VHT80 5690	1	10.80dBm	
	VHT80 5725~5850	1	10.83 dBm	

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Antenna Designation	Inverted-F Antenna, 5GHz Gain: 2.0dBi (5150MHz-5250MHz) 5GHz Gain: 2.0dBi (5250MHz-5350MHz) 5GHz Gain: 1.0dBi (5470MHz-5725MHz) 5GHz Gain: 0.4dBi (5725MHz-5850MHz)
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps; 802.11 n_20 / ac VHT20MHz: 6.5 – 65Mbps 802.11 n_40 / ac VHT40MHz: 13.5 – 135Mbps 802.11 ac_80MHz: 29.3 – 292.5Mbps

## 1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) supports below functions.

Product Feature	
Bluetooth Version	V4.2 dual mode
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC

**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 644545 D03 Guidance for IEEE 802.11ac v01

Note:

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

### 1.4 Test Facility

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

OATS: SGS Far East Limited Taiwan EMC Laboratory

No.34-2, Dingfu, Linkou Dist., New Taipei City 24442, Taiwan (R.O.C.)

FCC Registration Numbers are: 509634

Canada Registration Number: 4620A-5.

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is 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 transmitter (EUT) was rotated through one orthogonal axe and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

### 2.4 Measurement Results Explanation Example

#### For all conducted test items:

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

#### Note:

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

Following shows an offset computation example with cable loss 1dB, and 10dB attenuator.

#### Offset:

= RF cable loss (dB)+ attenuation factor(dB) dB =11dB

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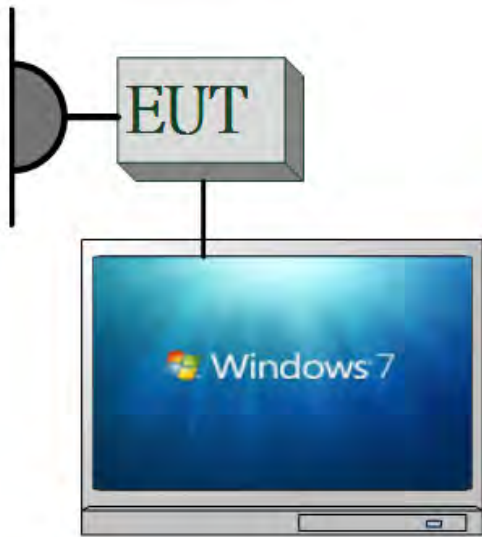
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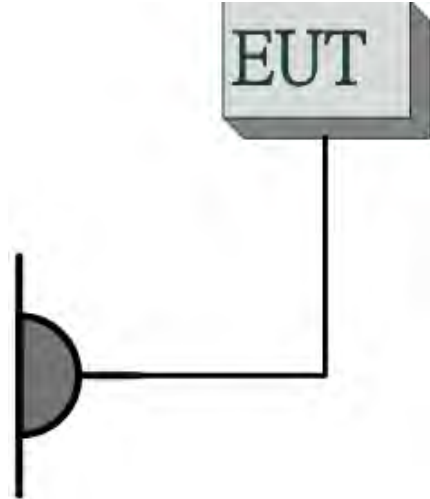
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## 2.5 Configuration of Tested System

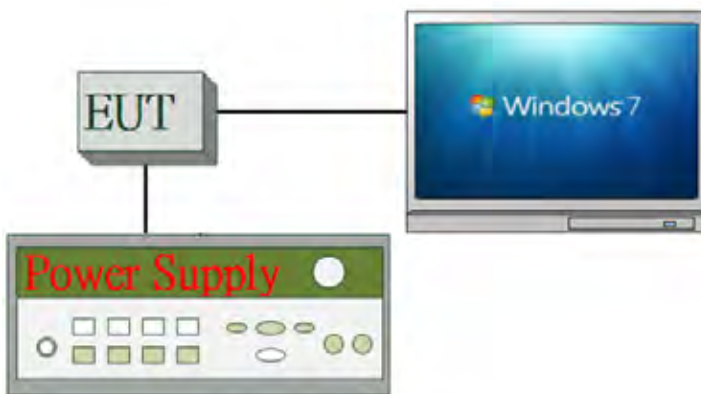
**Fig. 2-1 Radiated Emission & AC Power Line Conducted Emission Configuration**



**Fig. 2-2 Radiated Emission & AC Power Line Conducted Emission Configuration**



### Conducted (Antenna Port) Configuration



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	R400	7440AV6	N/A	Un-shield
3.	DC Power Supply	Agilent	E3640A	KR93300208	N/A	N/A
4.	Data Cable (USB)	Sony	UCB20	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:

12 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

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

6 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

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

3 channels are provided for 802.11ac\_VHT80

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

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

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

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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#### 4.2 The Worst Test Modes and Channel Details

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

#### RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN

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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	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11ac_VHT20	5720	144	144	OFDM	MCS0	MAIN
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT40	5710	142	142	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

**Note:**

The field strength of radiation emission was measured as 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case was reported.

**Note:**

The test result of test setup without the accessories is chosen as the worst case to be presented in the test report.

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**ANTENNA PORT CONDUCTED MEASUREMENT:**

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

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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 : <b>Vertical</b> )	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 : <b>Horizontal</b> )	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	ESC17	100760	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/250 -25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

### 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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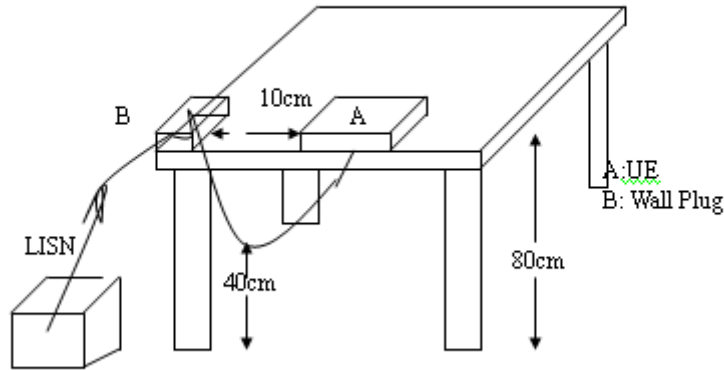
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#### 6.4. Test SET-UP



#### 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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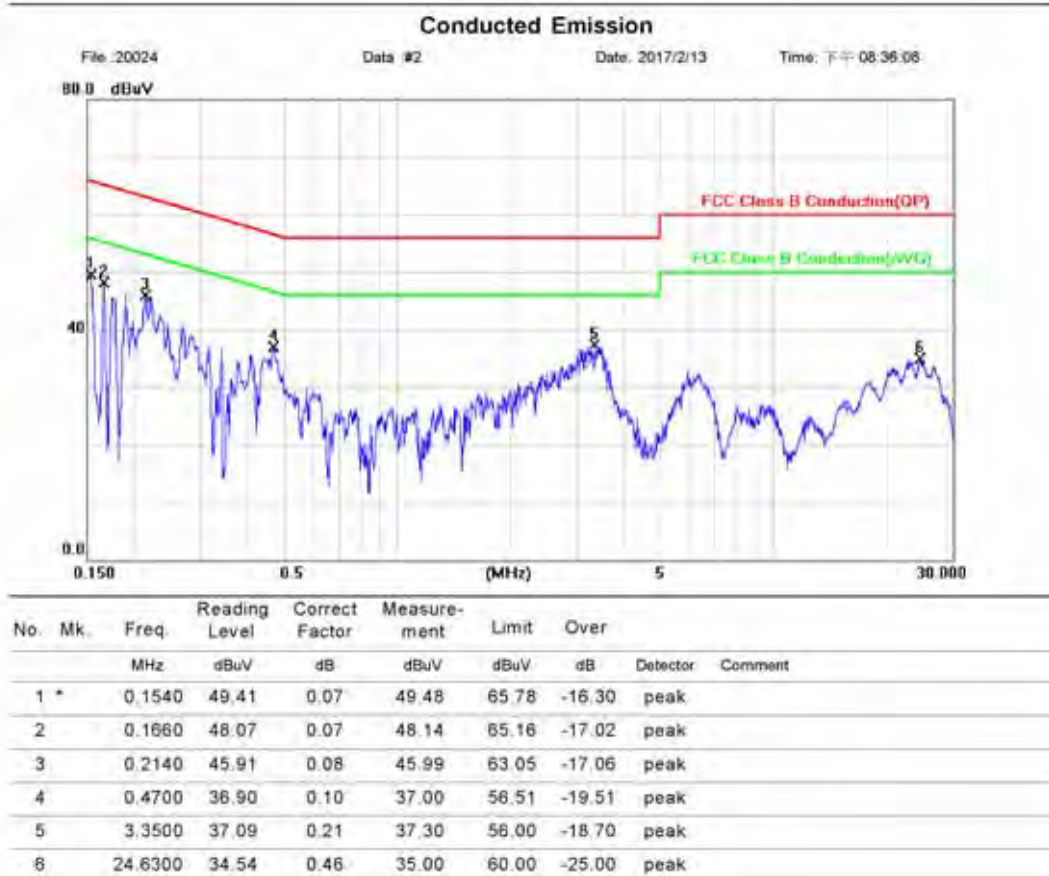
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Feb. 13, 2017	
Temperature:	20	Humidity:	58 %	Test By:	Louis
				Phase:	L1 / N

Site Conduction Room	Phase: L1	Temperature: 20 ℃
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 58 %
Mode: Operation		
Model: Adapter 0017W/01300008		



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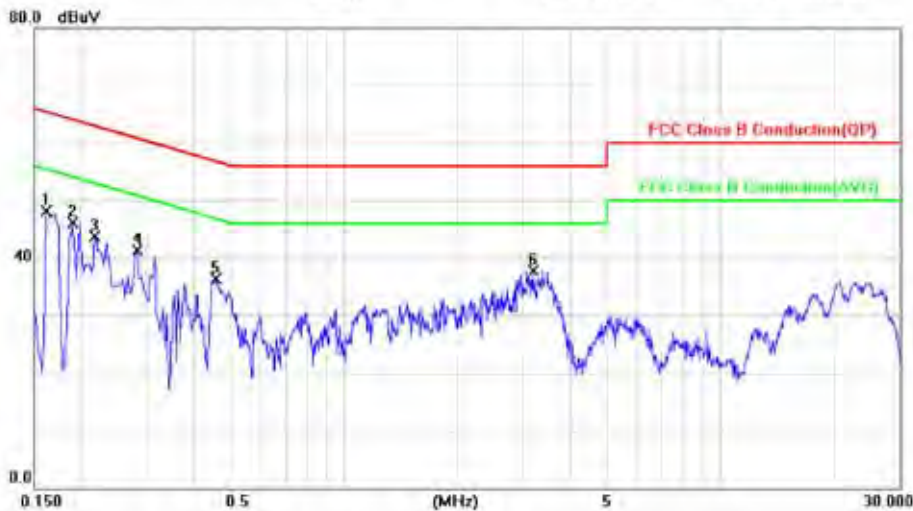
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Site: Conduction Room      Phase: N      Temperature: 20 C  
 Limit: FCC Class B Conduction(QP)      Power: AC 120V/60Hz      Humidity: 58 %  
 Mode: Operation

### Conducted Emission

File: 20024      Data: #1      Date: 2017/2/13      Time: 下午 08:35:14



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1620	48.00	0.07	48.07	65.36	-17.29	peak	
2		0.1900	46.02	0.08	46.10	64.04	-17.94	peak	
3		0.2180	43.58	0.08	43.66	62.89	-19.23	peak	
4		0.2820	41.13	0.09	41.22	60.76	-19.54	peak	
5		0.4580	36.15	0.10	36.25	56.73	-20.48	peak	
6		3.1780	37.43	0.20	37.63	56.00	-18.37	peak	

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## 7. DUTY CYCLE TEST SIGNAL

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

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

### Formula:

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

### Measurement Procedure:

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

### Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log ( 1/Duty Cycle )
802.11a	99.36	0.03
802.11n_20	99.14	0.04
802.11n_40	97.56	0.11
802.11ac_80	96.99	0.13

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9936) = 0.03$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9914) = 0.04$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9756) = 0.11$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9699) = 0.13$$

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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20



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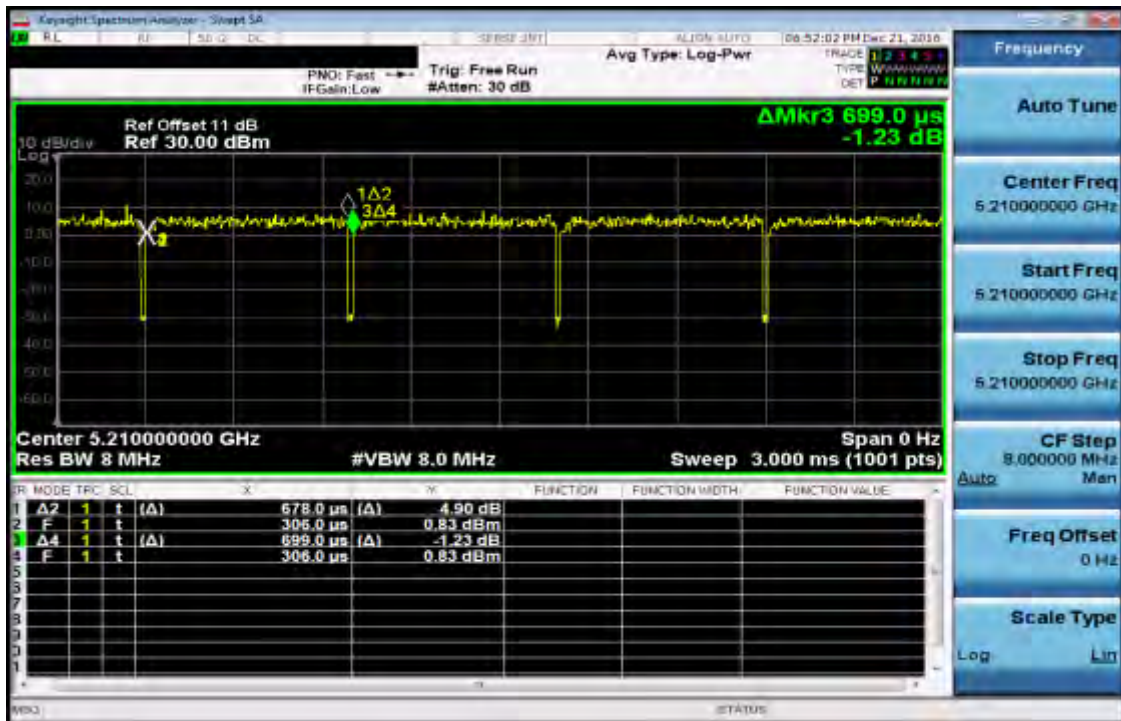
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### 802.11n HT 40



### 802.11 ac VHT 80



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## 8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

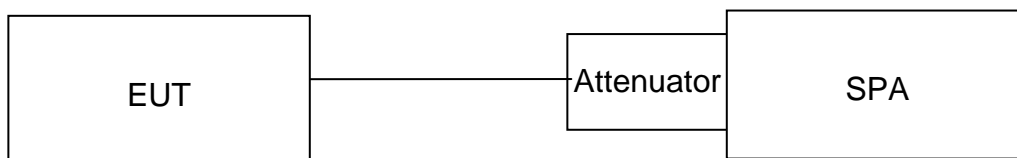
There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

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

### 8.2 Measurement Procedure

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

### 8.3 Test Set-up



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#### 8.4 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
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	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018

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

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## 8.5 Measurement Result 26dB Bandwidth

802.11a\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.29	13.282
5220	21.41	13.306
5240	20.96	13.214
5260	21.37	13.298
5300	21.11	13.245
5320	21.24	13.272
5500	21.19	13.261
5580	24.28	13.852
5700	20.95	13.212

802.11n\_HT20\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.36	13.296
5220	22.91	13.600
5240	22.01	13.426
5260	21.71	13.367
5300	22.95	13.608
5320	21.40	13.304
5500	21.21	13.265
5580	21.53	13.330
5700	21.33	13.290

802.11n\_HT40\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.64	15.981
5230	39.46	15.962
5270	40.07	16.028
5310	39.40	15.955
5510	39.64	15.981
5550	39.76	15.994
5670	39.70	15.988

802.11ac\_VHT80\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.63	19.065
5290	80.95	19.082
5530	81.07	19.089
5610	80.80	19.074

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**802.11a\_Main**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	15.100	11.79
5720 (UNII-3)	5.150	7.12

**802.11ac VHT20\_Main**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	16.080	12.06
5720 (UNII-3)	5.600	7.48

**802.11ac VHT40\_Main**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	34.980	15.44
5710 (UNII-3)	4.800	6.81

**802.11ac VHT80\_Main**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	75.200	18.76
5690 (UNII-3)	5.400	7.32

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802.11a\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.32	12.126
5785	16.35	12.134
5825	16.35	12.135

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5720	3.240	5.11

802.11n\_HT20\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.56	12.446
5785	17.30	12.381
5825	17.58	12.449

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5720	3.800	5.80

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**802.11n\_HT40\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.65	15.521
5795	35.14	15.458

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5710	3.050	4.84

**802.11ac\_VHT80\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.26	18.766

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5690	2.800	4.47

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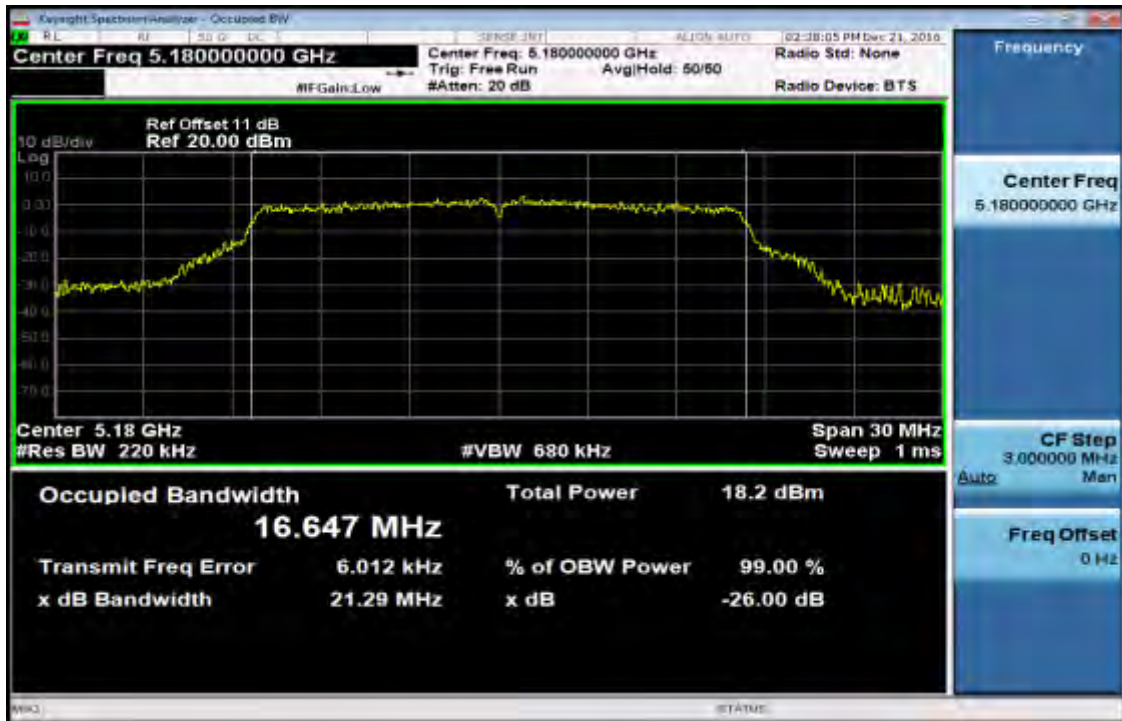
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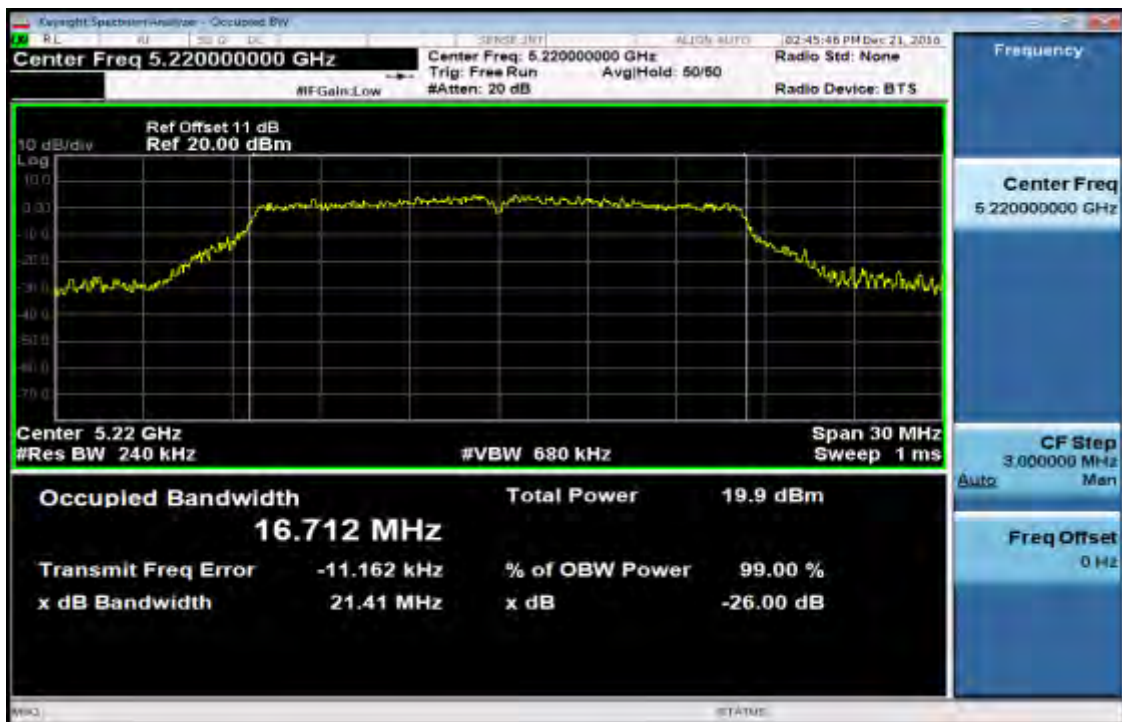
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802.11a, 5150~5250 MHz (Main)  
26dB Band Width Test Data CH-Low (5180MHz)



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



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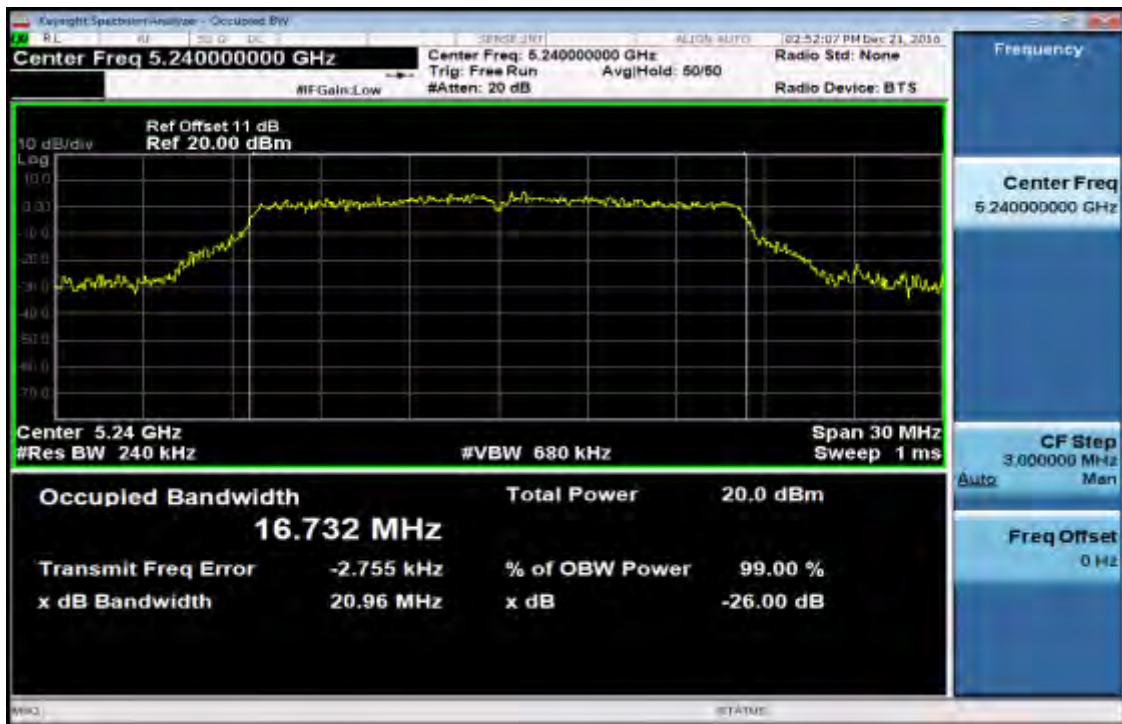
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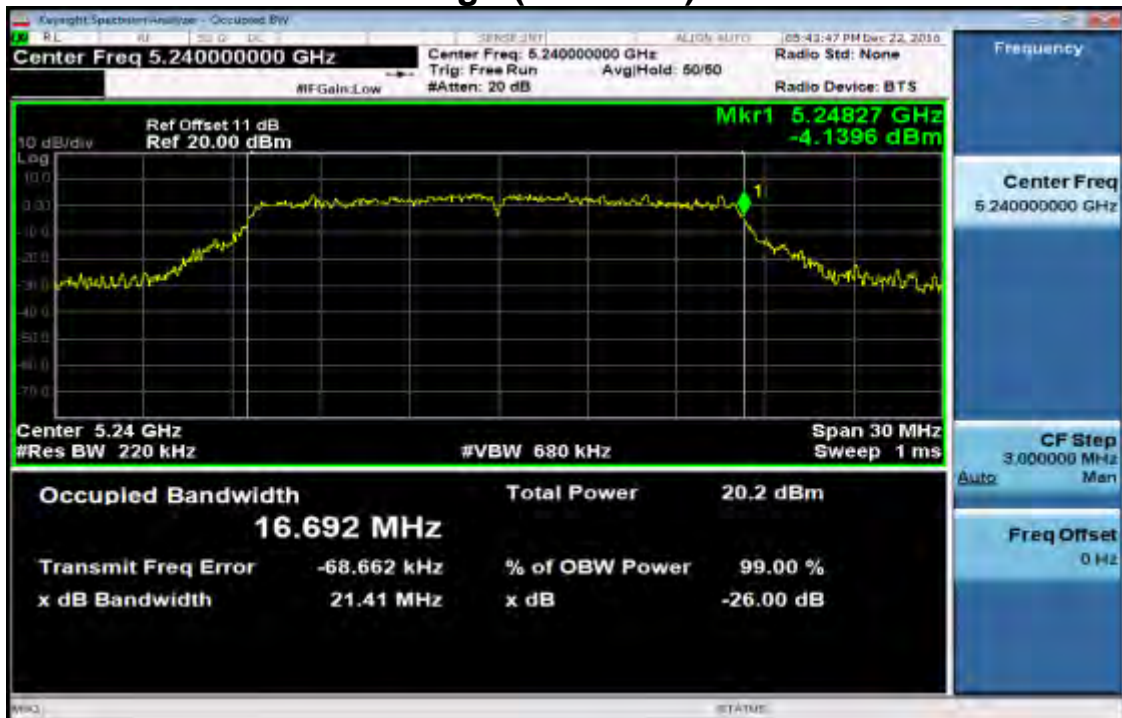
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### 26dB Band Width Test Data CH-High (5240MHz)



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



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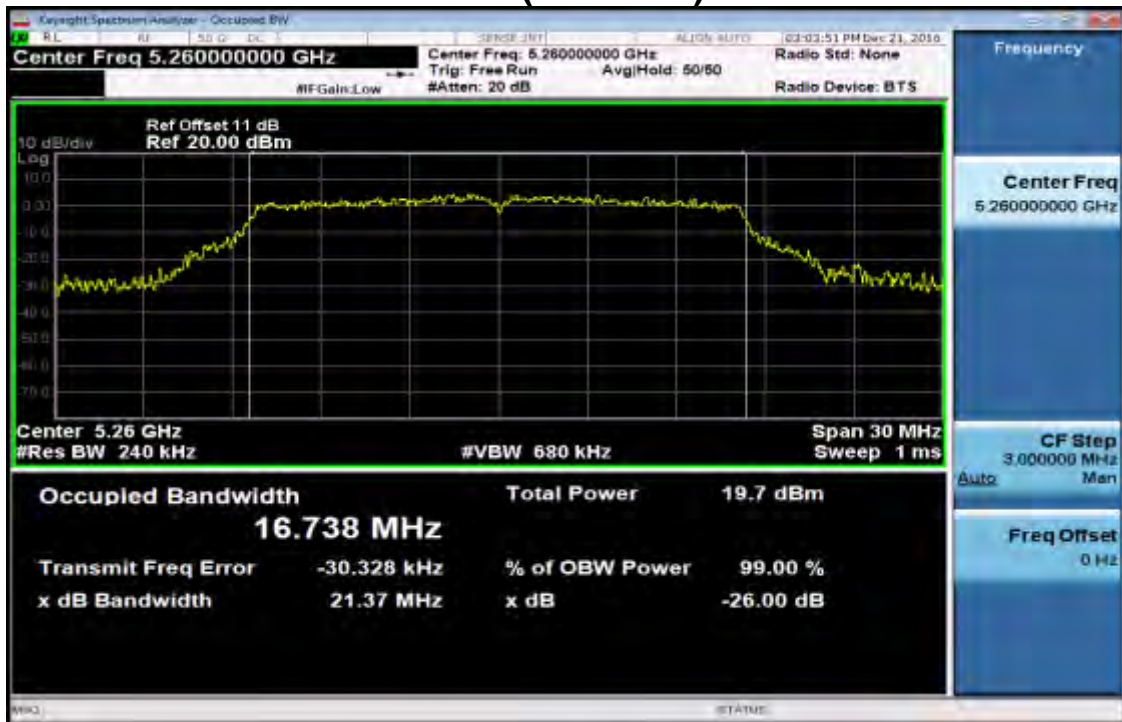
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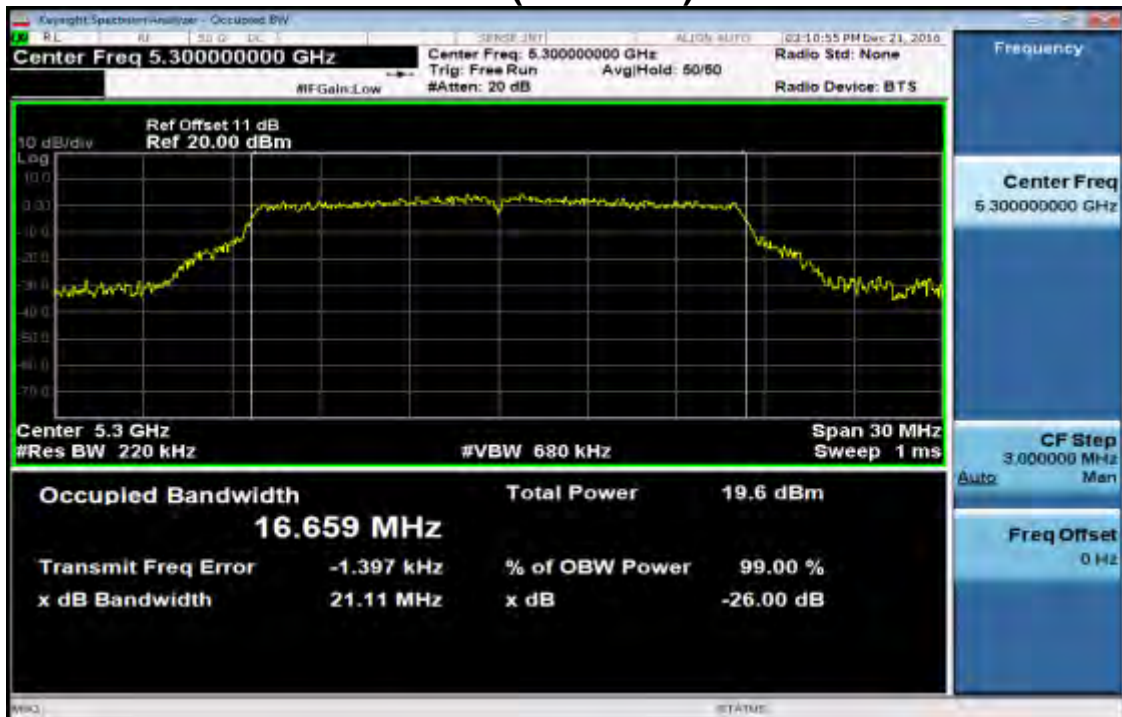
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**802.11a, 5250~5350 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5260MHz)**



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



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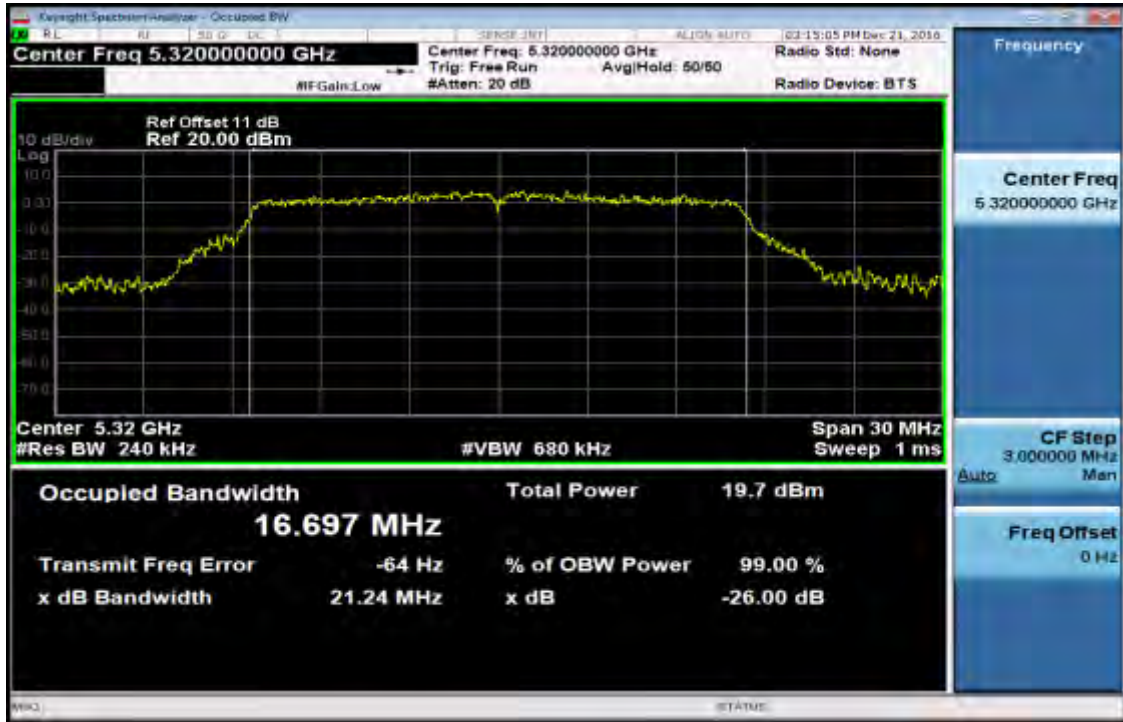
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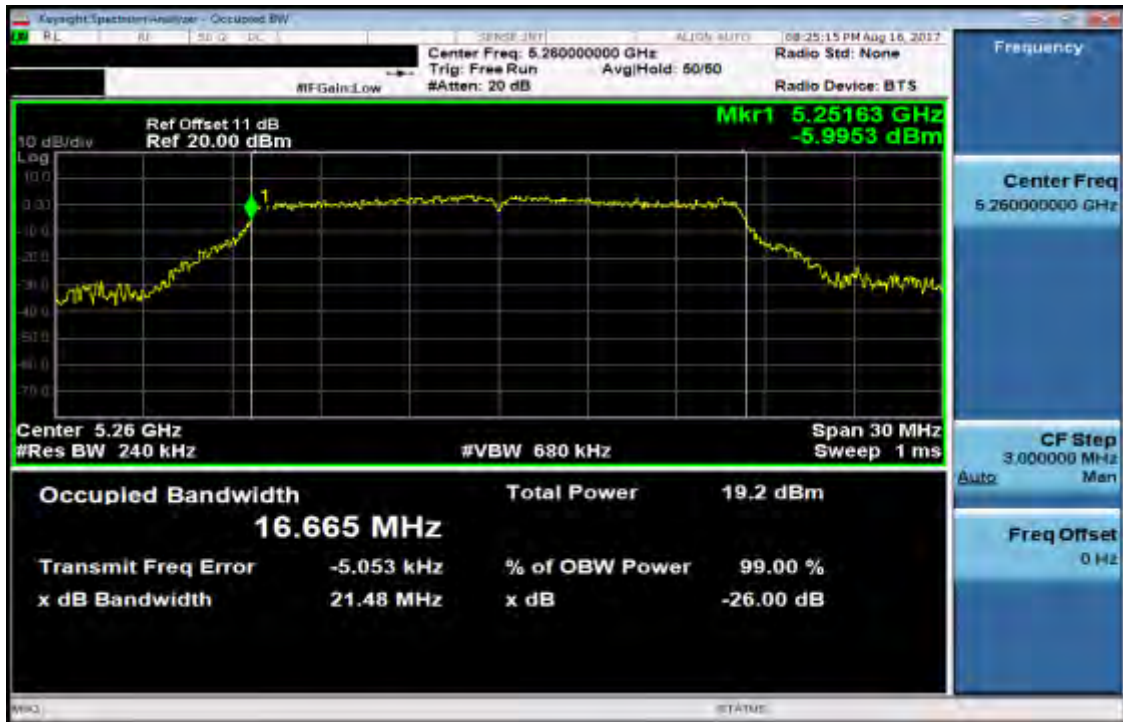
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### 26dB Band Width Test Data CH-High (5320MHz)



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



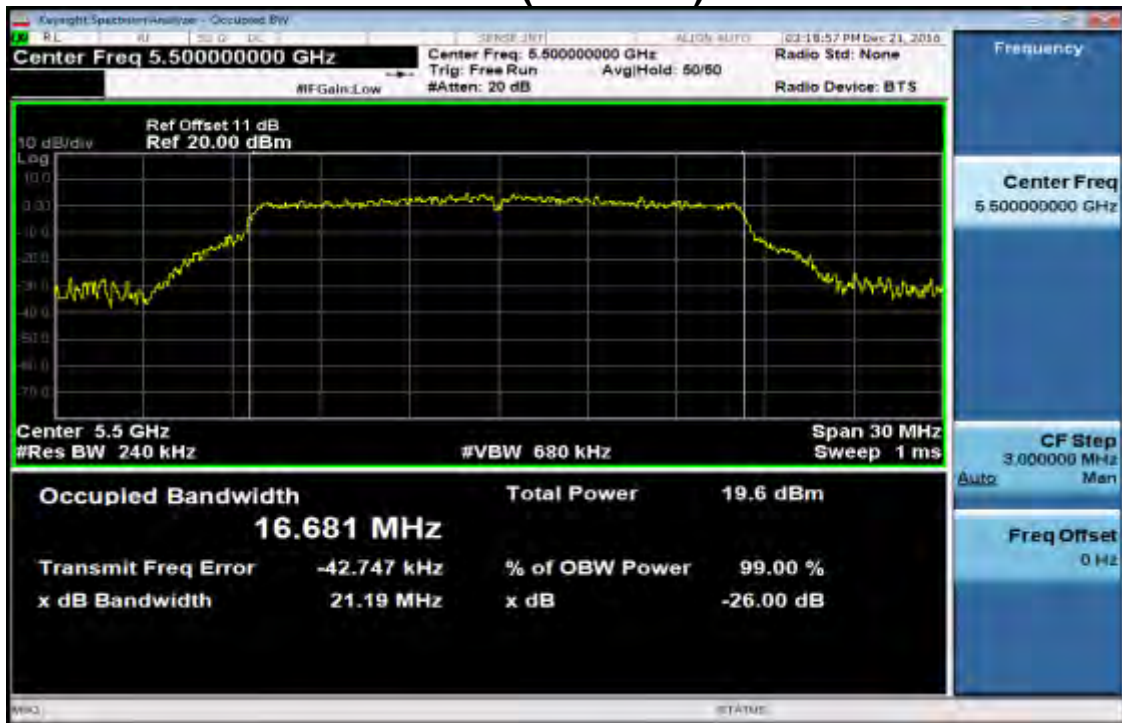
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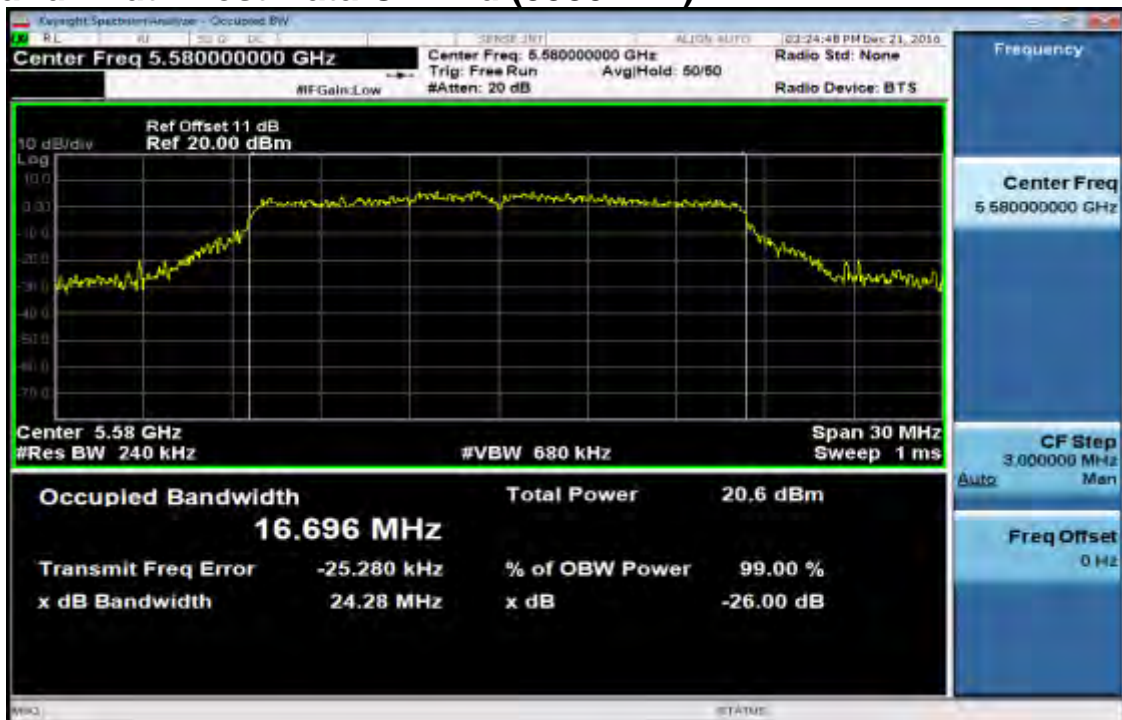
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**802.11a, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5500MHz)**



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



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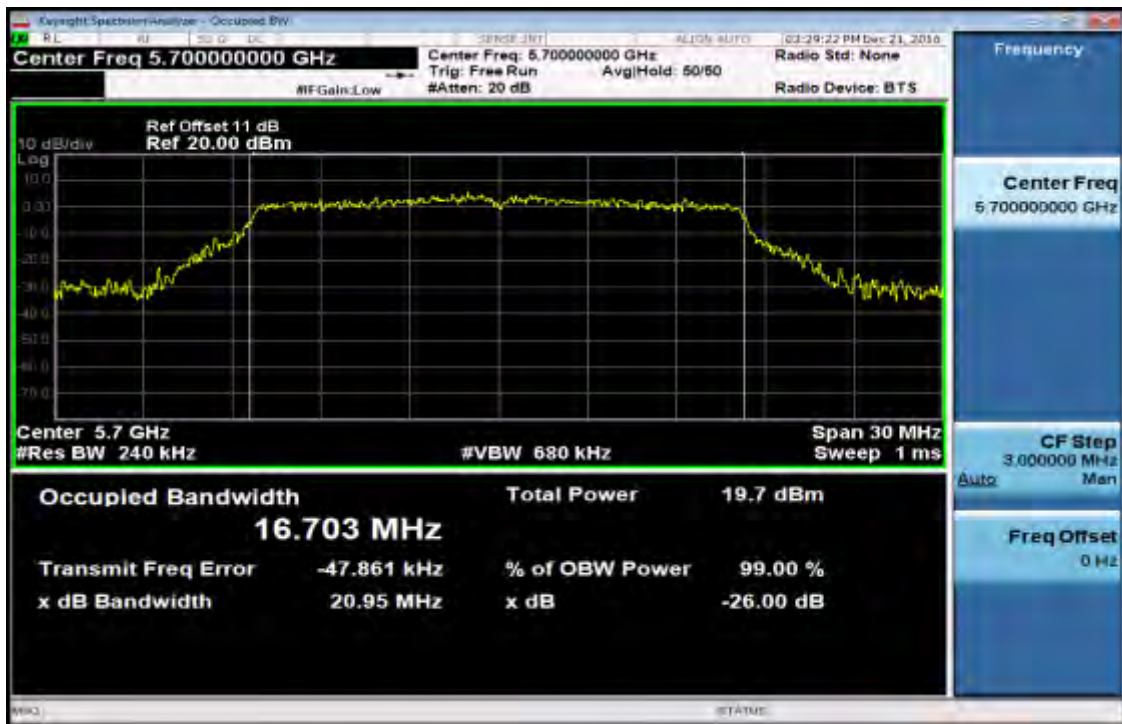
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### 26dB Band Width Test Data CH-High (5700MHz)



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



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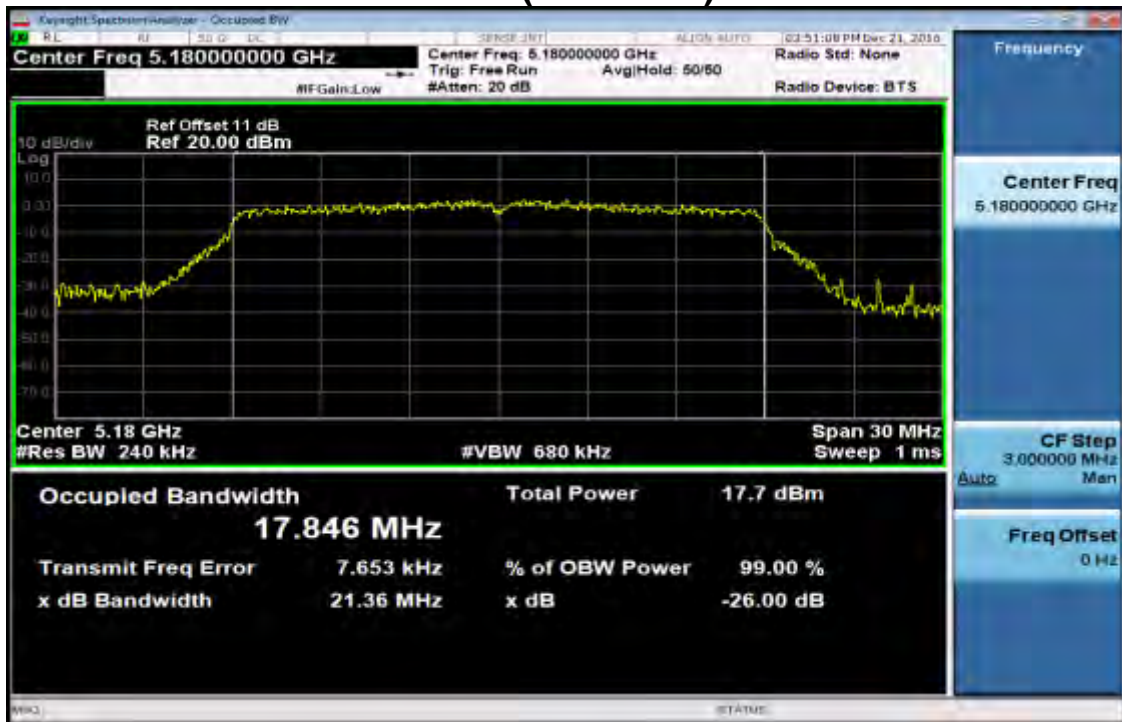
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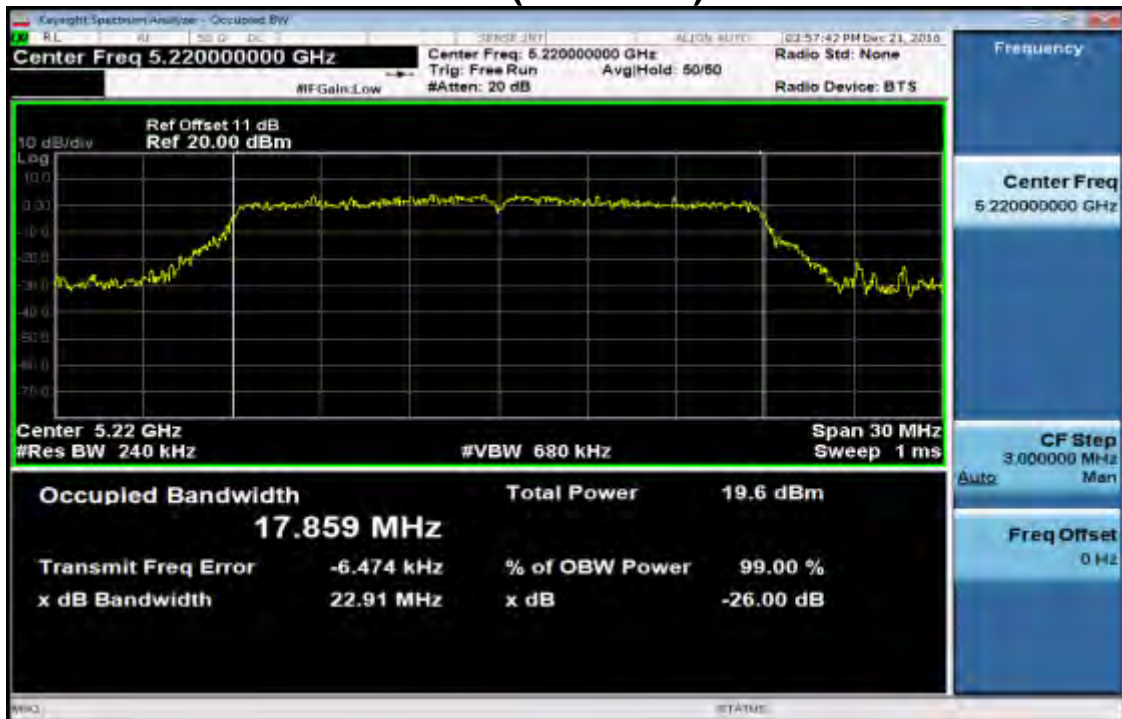
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**802.11n HT20, 5150~5250 MHz (Main)  
26dB Band Width Test Data CH-Low (5180 MHz)**



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



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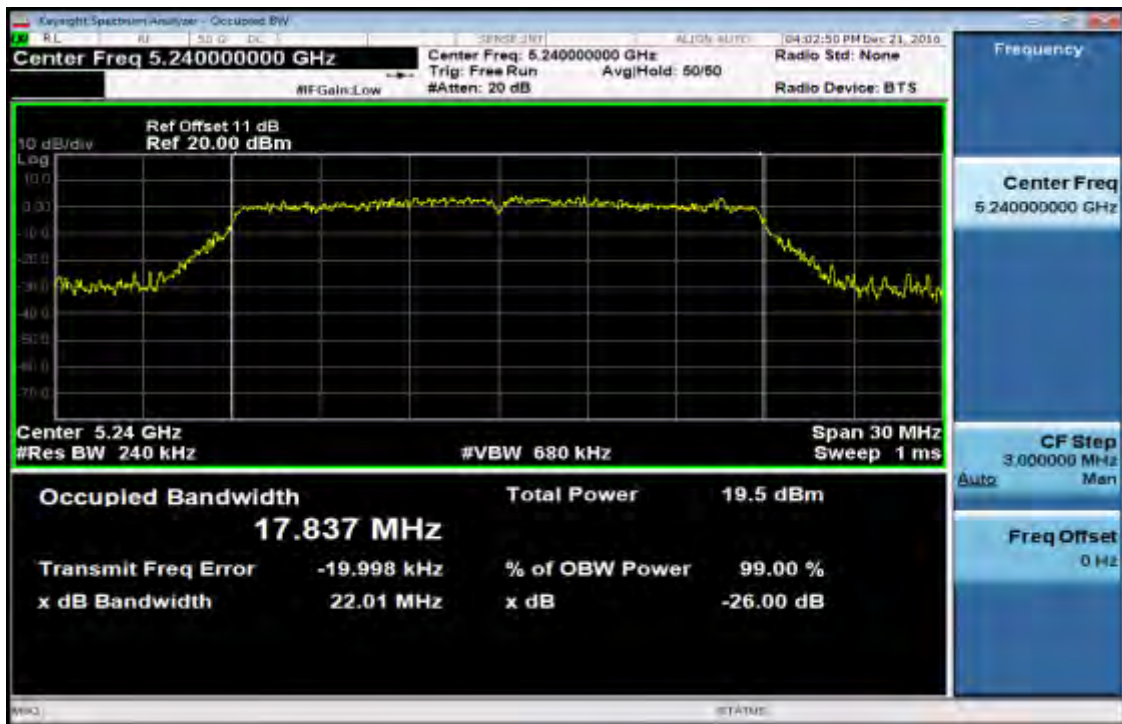
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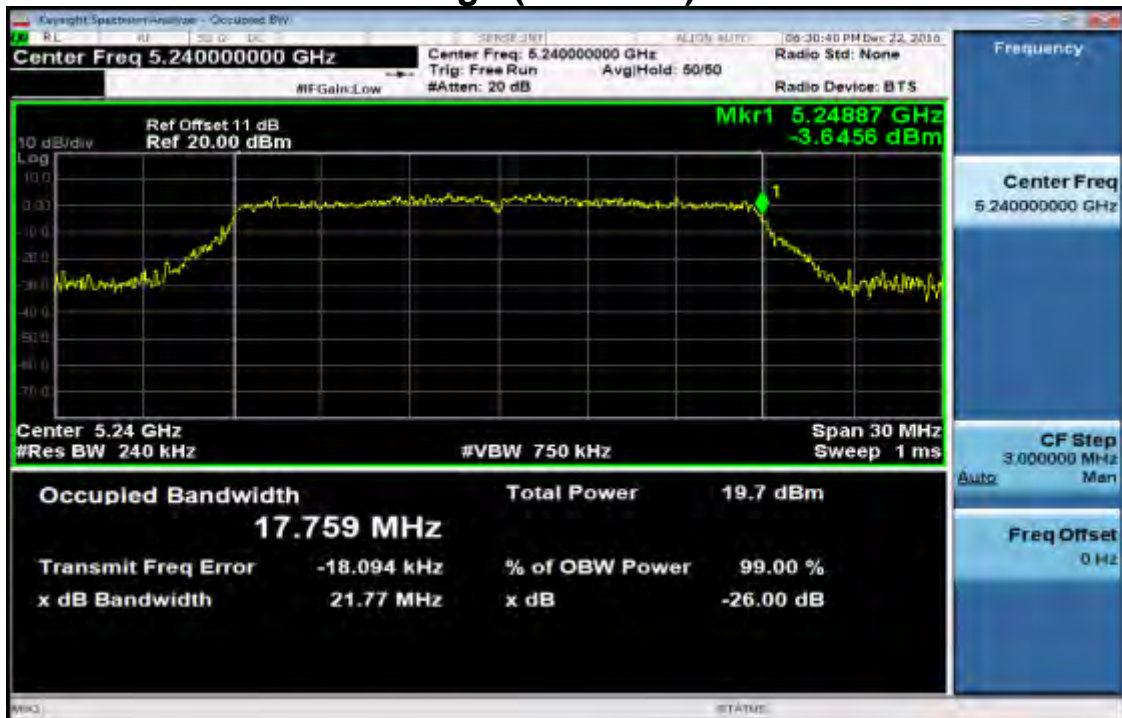
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### 26dB Band Width Test Data CH-High (5240 MHz)



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



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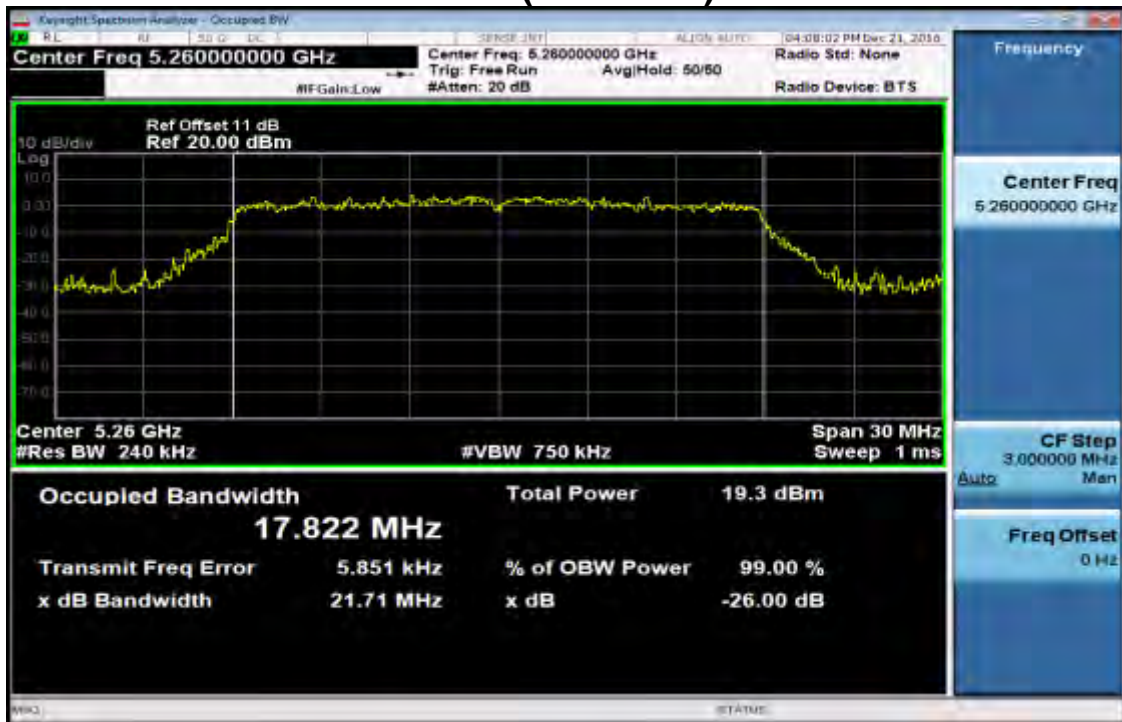
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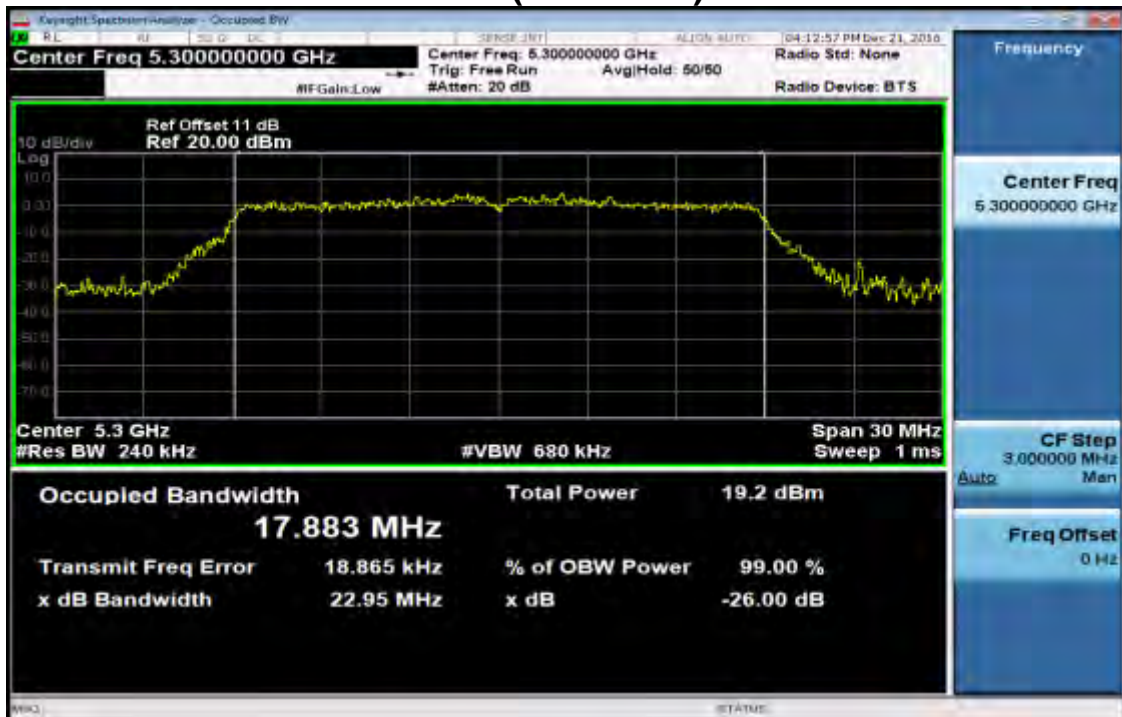
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**802.11n HT20, 5250~5350 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5260 MHz)**



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



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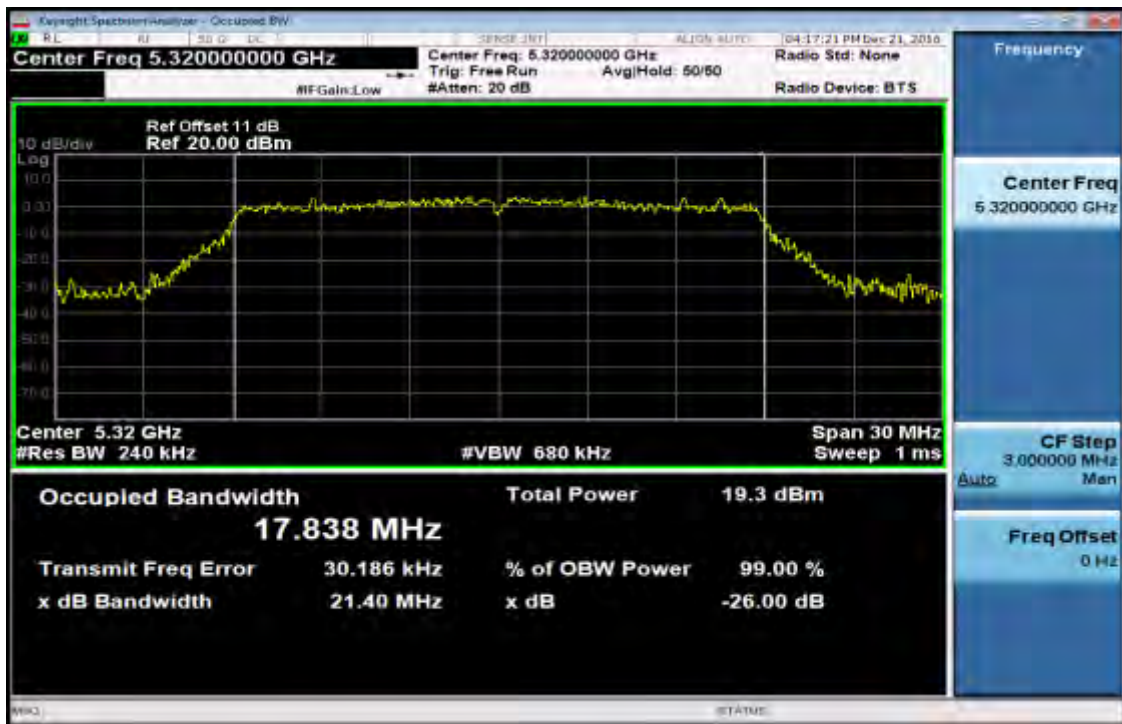
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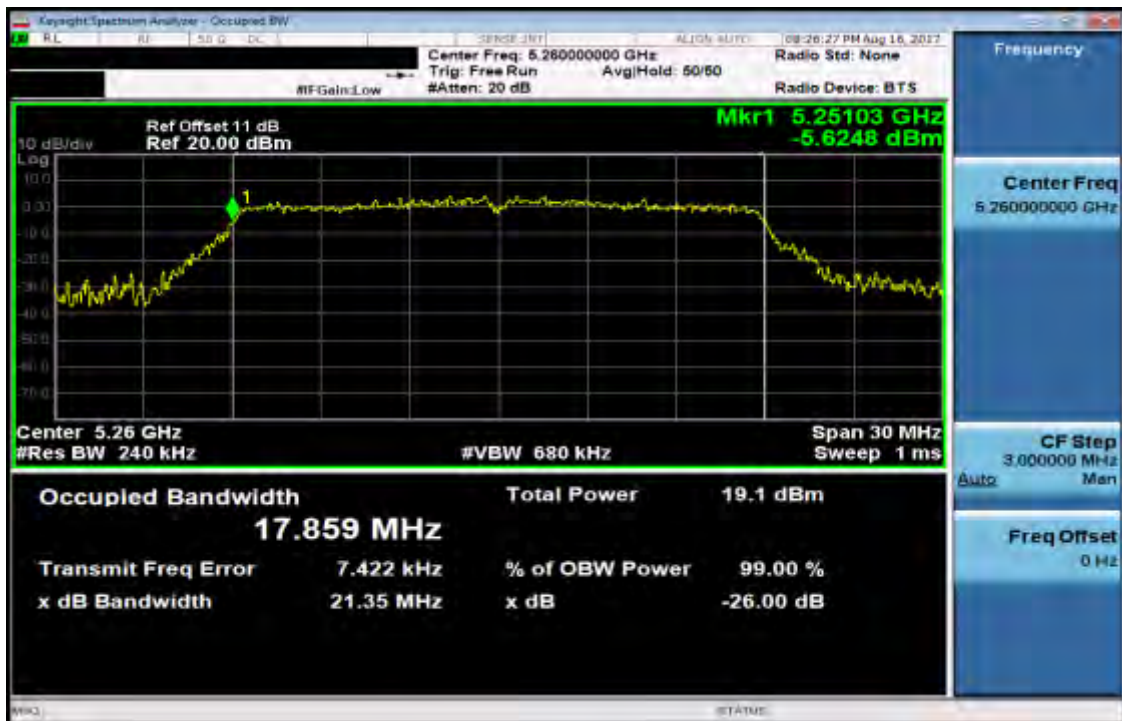
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### 26dB Band Width Test Data CH-High (5320 MHz)



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



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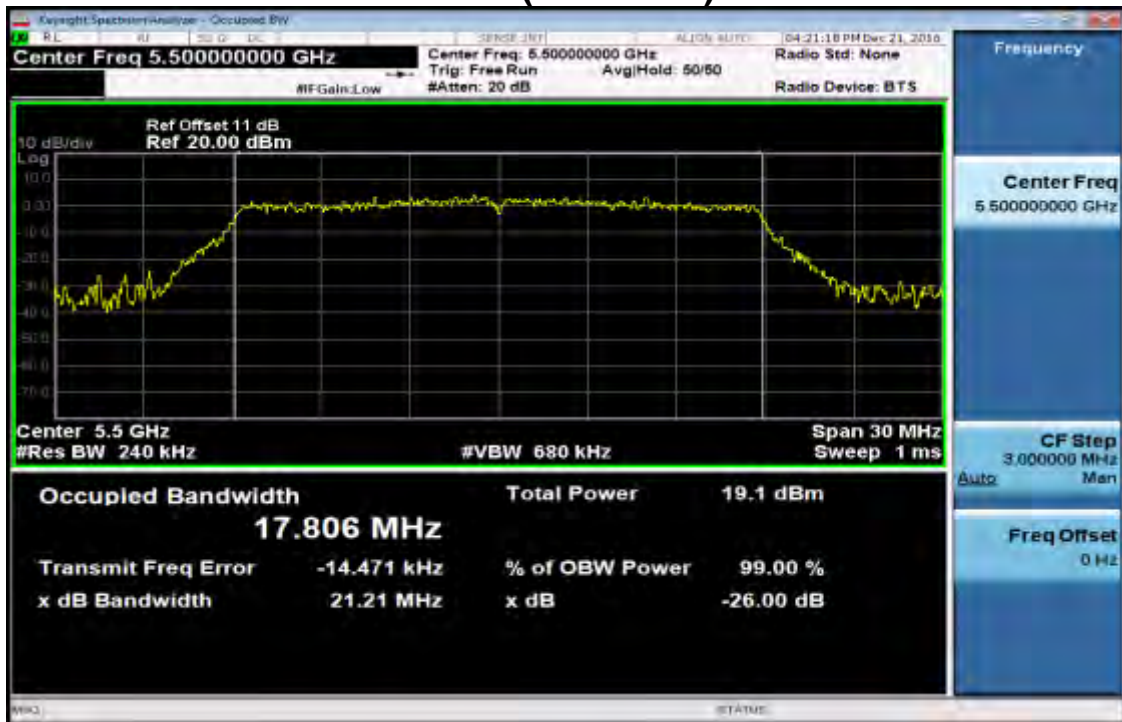
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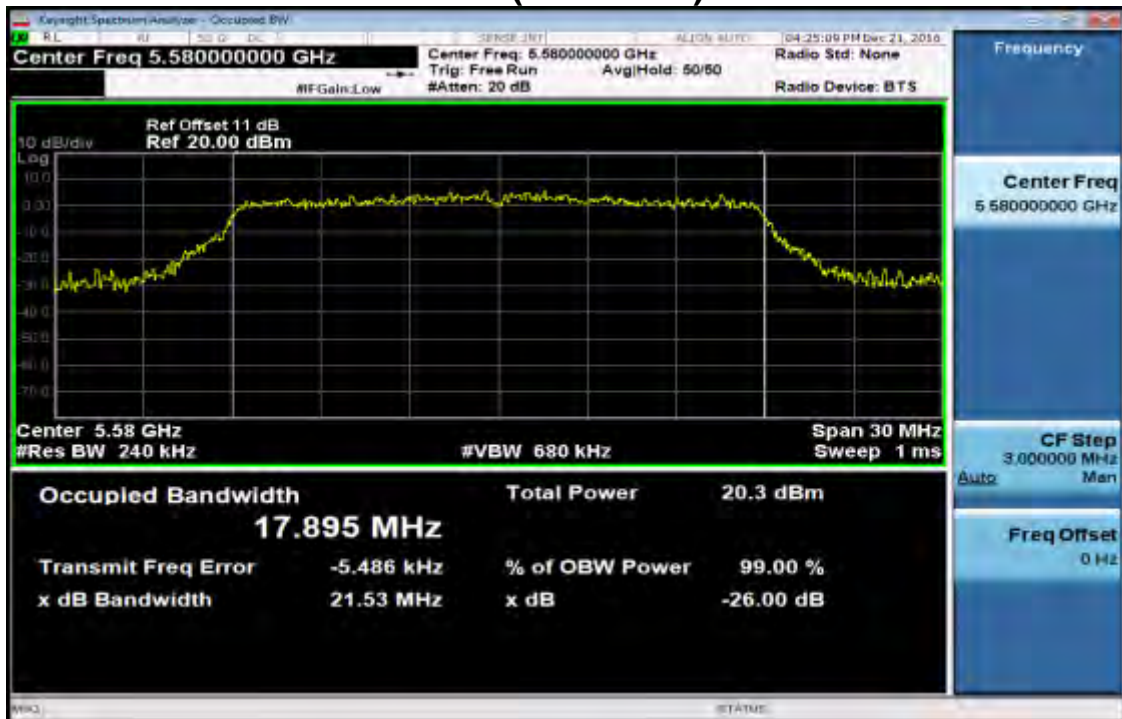
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**802.11n HT20, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5500 MHz)**



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



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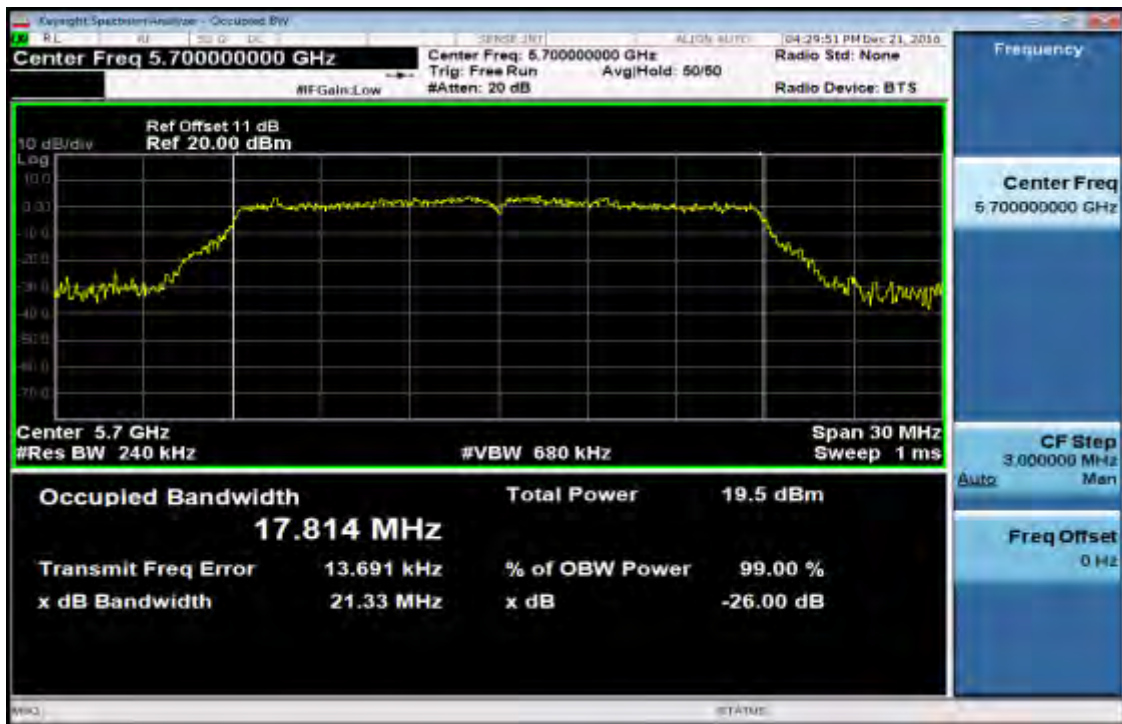
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### 26dB Band Width Test Data CH-High (5700 MHz)



### 802.11ac VHT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-High (5720 MHz)



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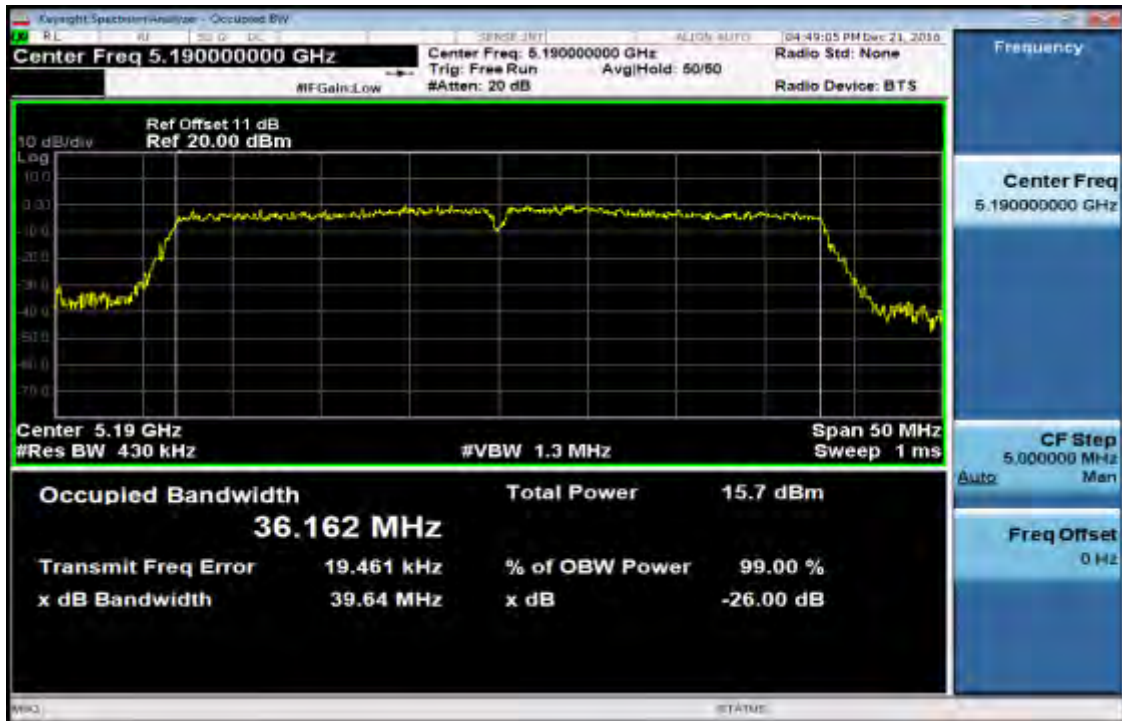
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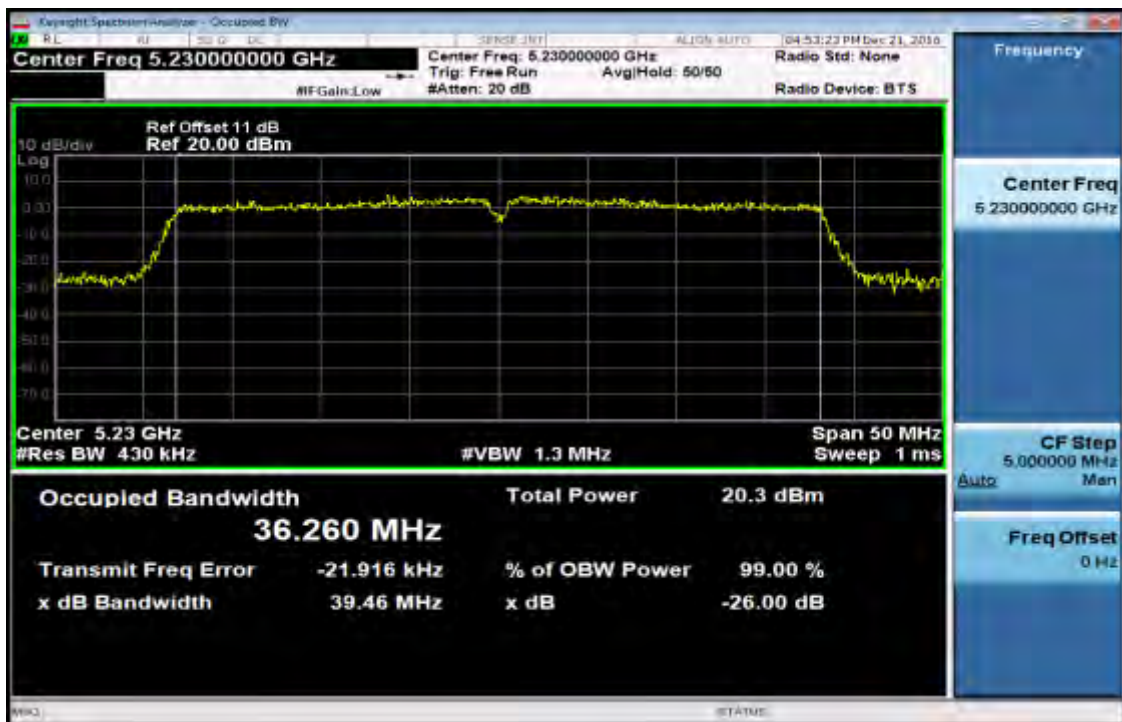
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**802.11n HT40, 5150~5250 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5190 MHz)**



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



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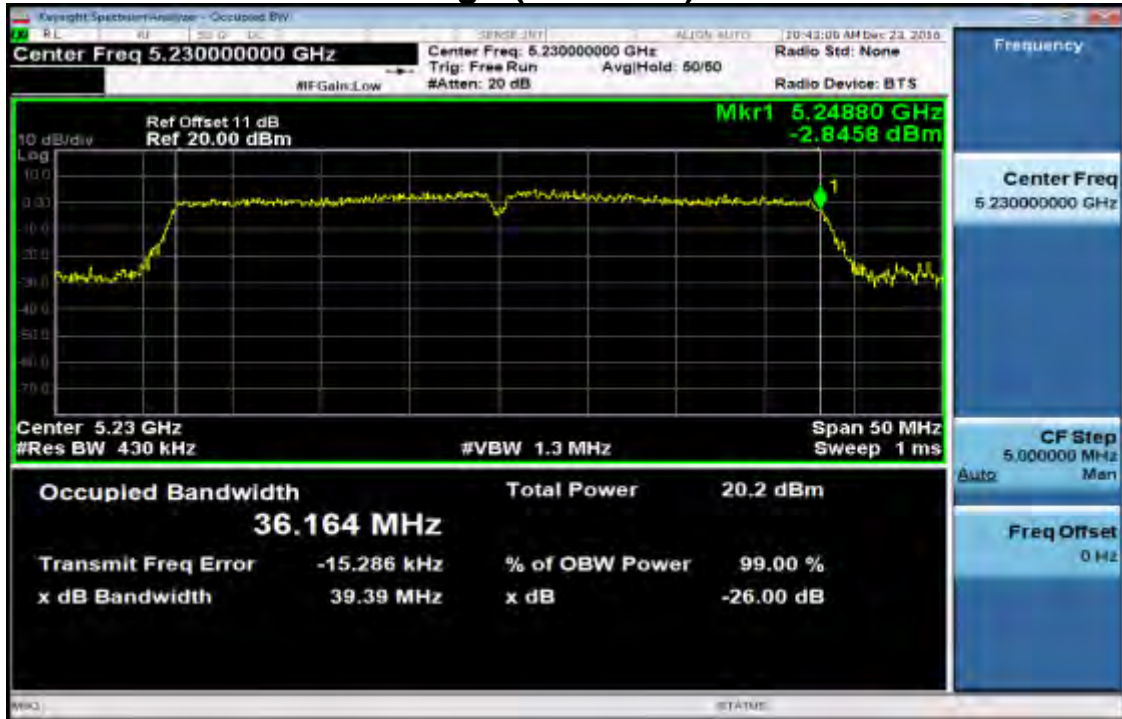
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### 99% Band Width Test Data CH-High (5230MHz)



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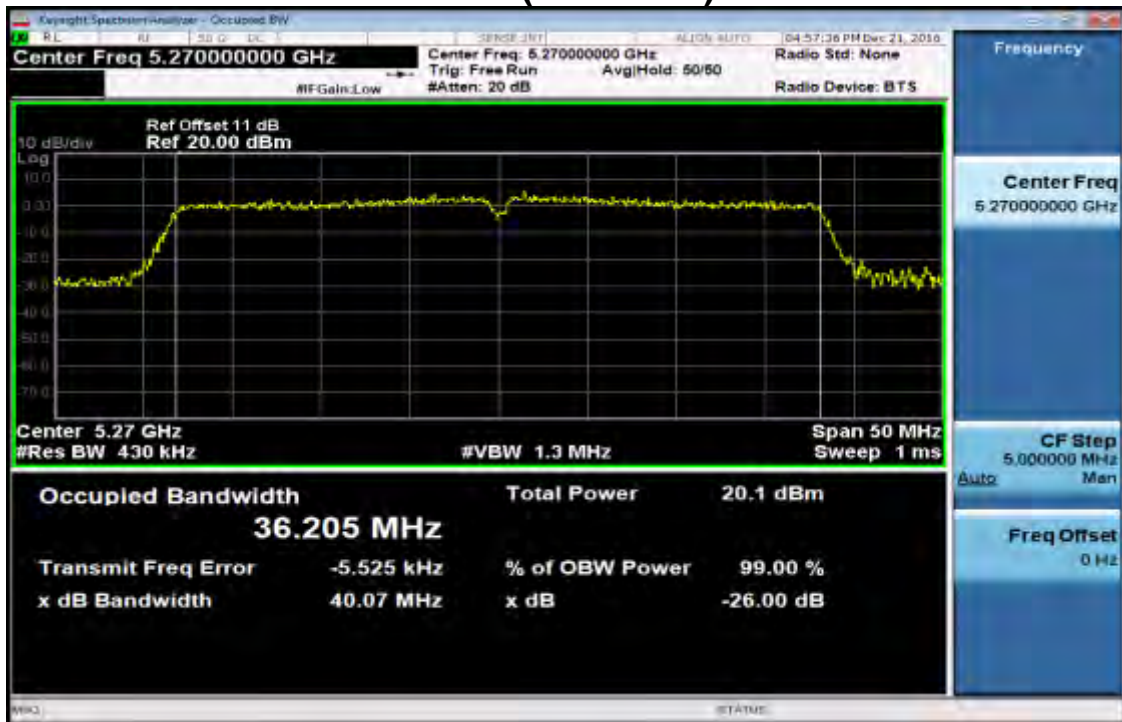
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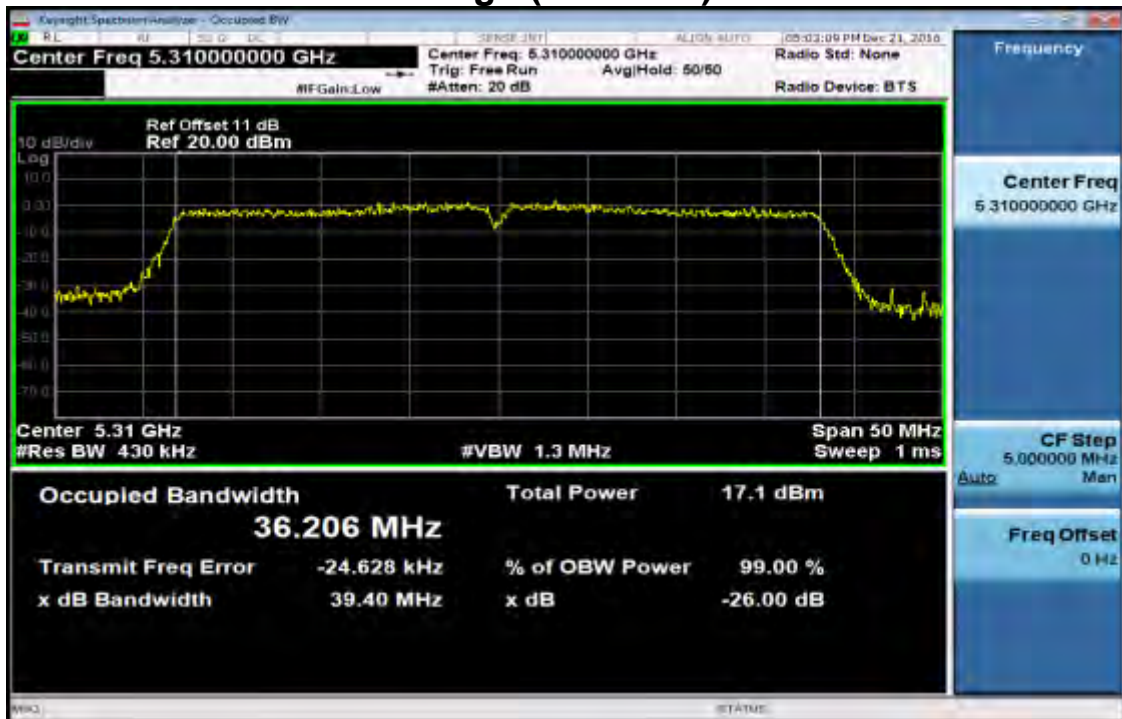
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**802.11n HT40, 5250~5350 MHz (Main)  
26dB Band Width Test Data CH-Low (5270 MHz)**



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



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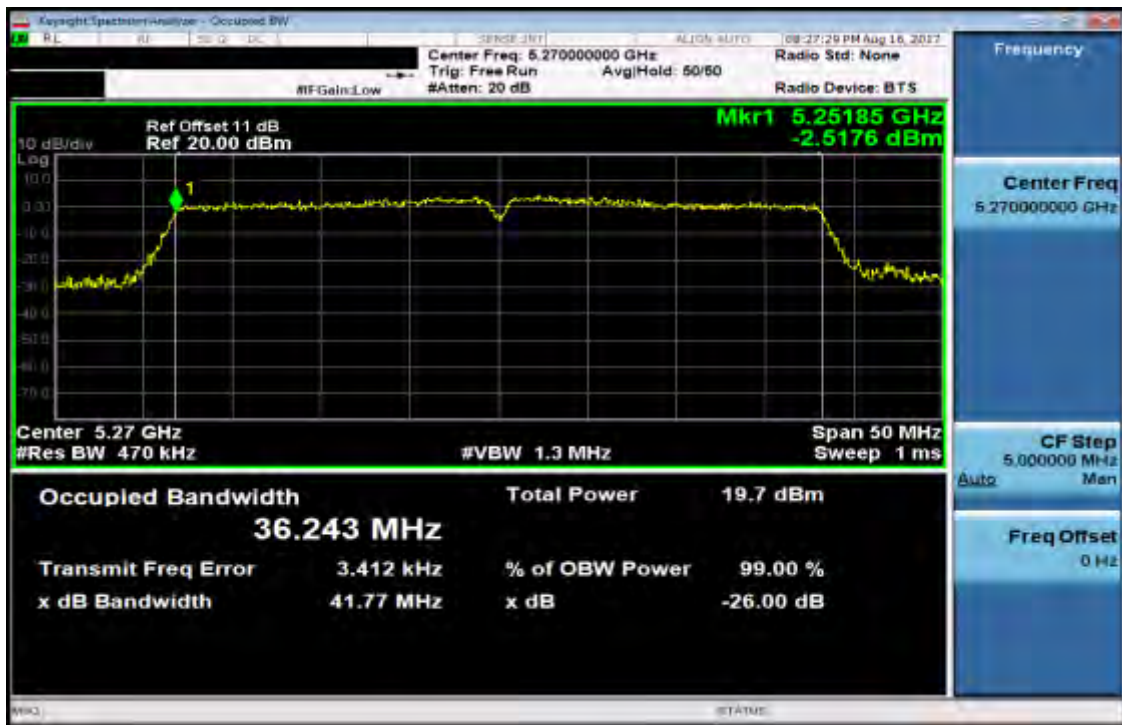
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### 99% Band Width Test Data CH-Low (5270 MHz)



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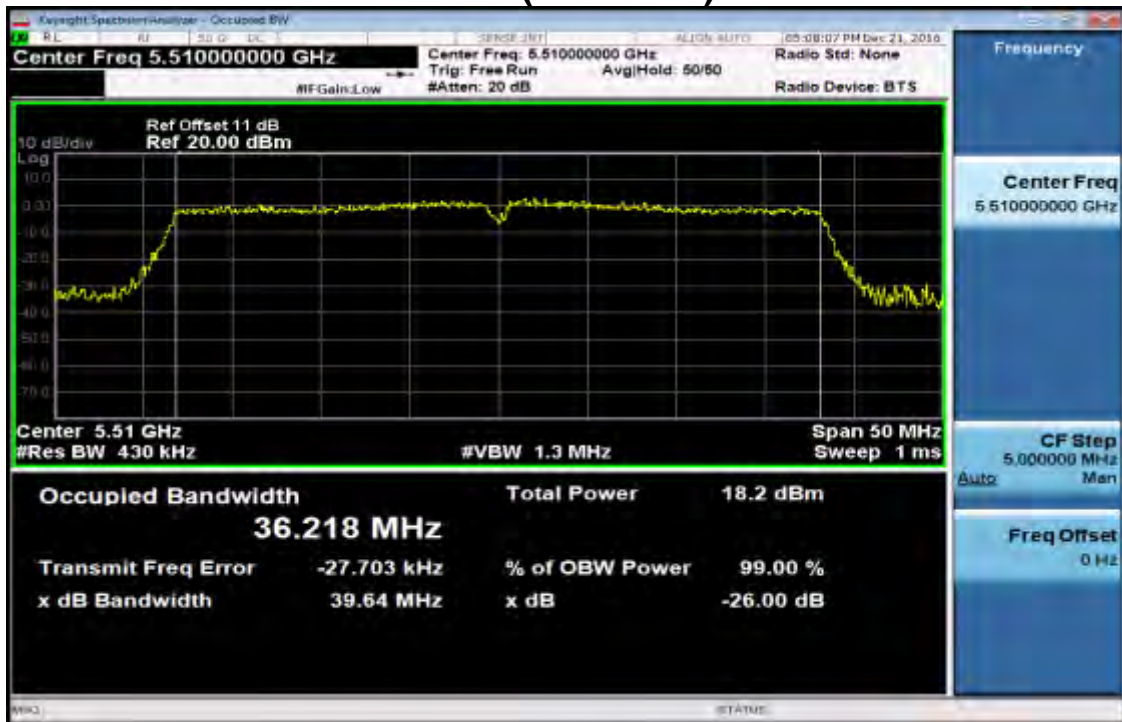
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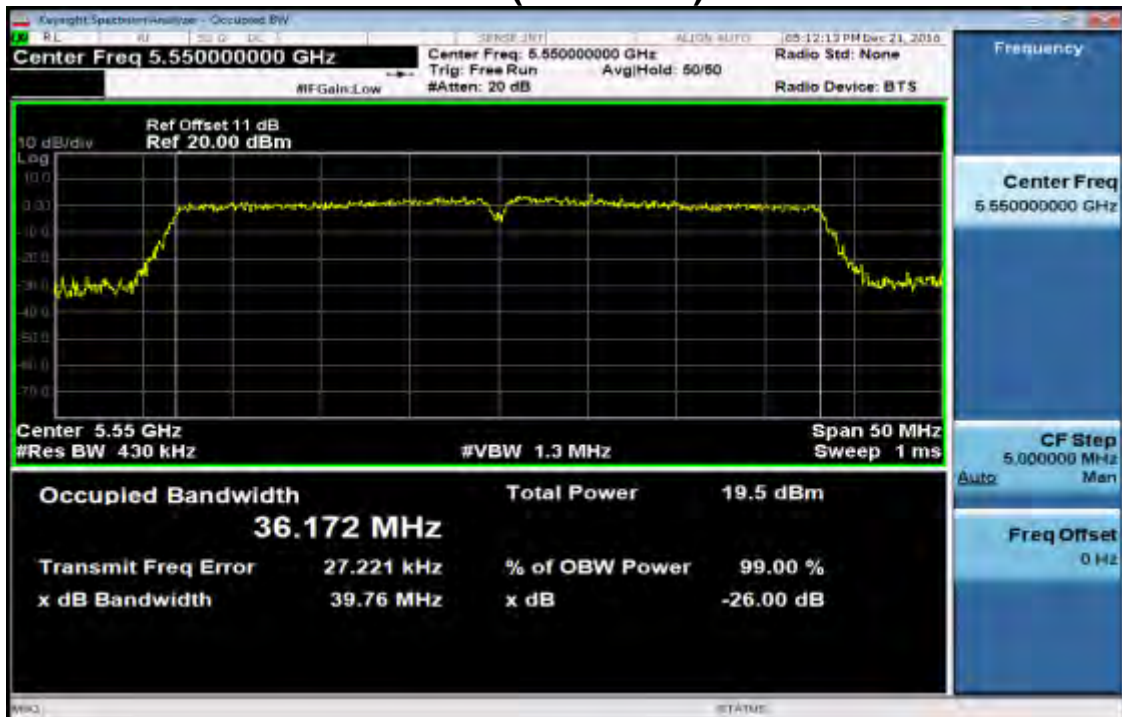
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**802.11n HT40, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5510 MHz)**



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



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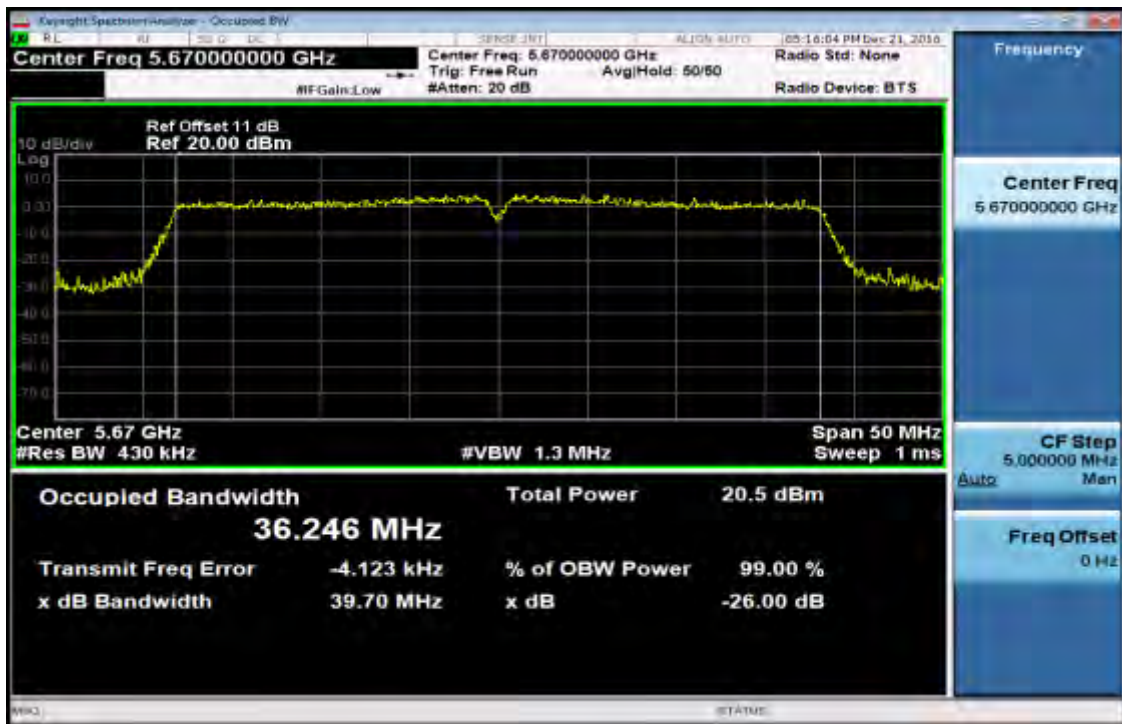
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### 26dB Band Width Test Data CH-High (5670 MHz)



### 802.11ac VHT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5710 MHz)



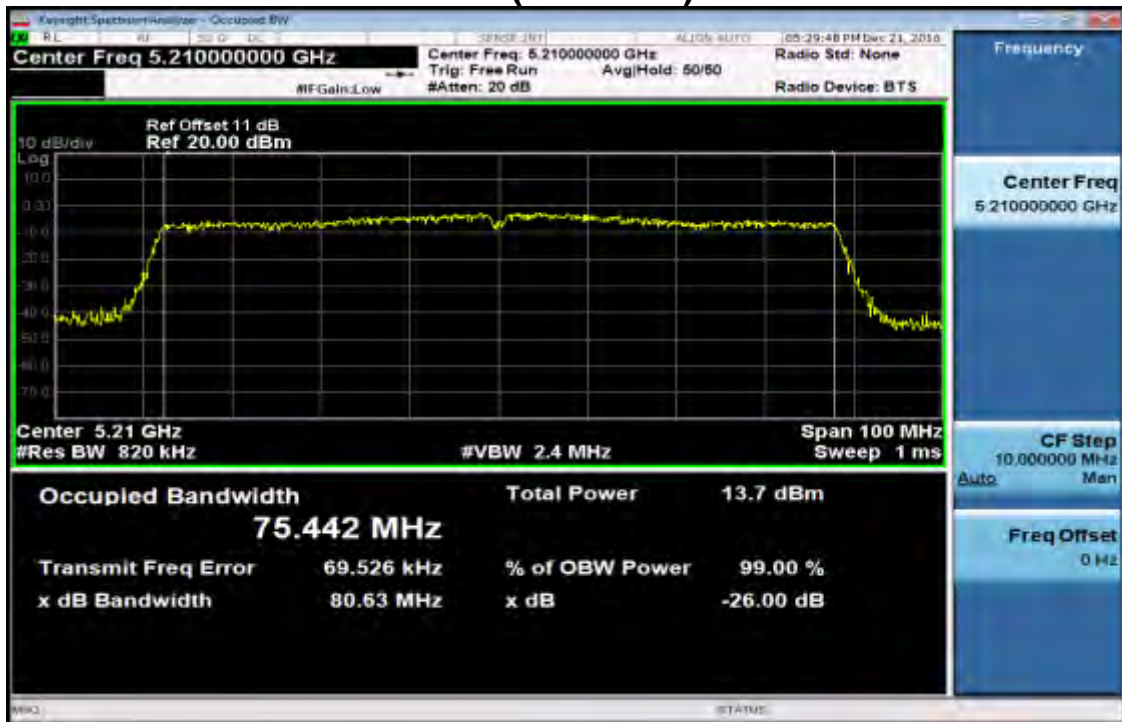
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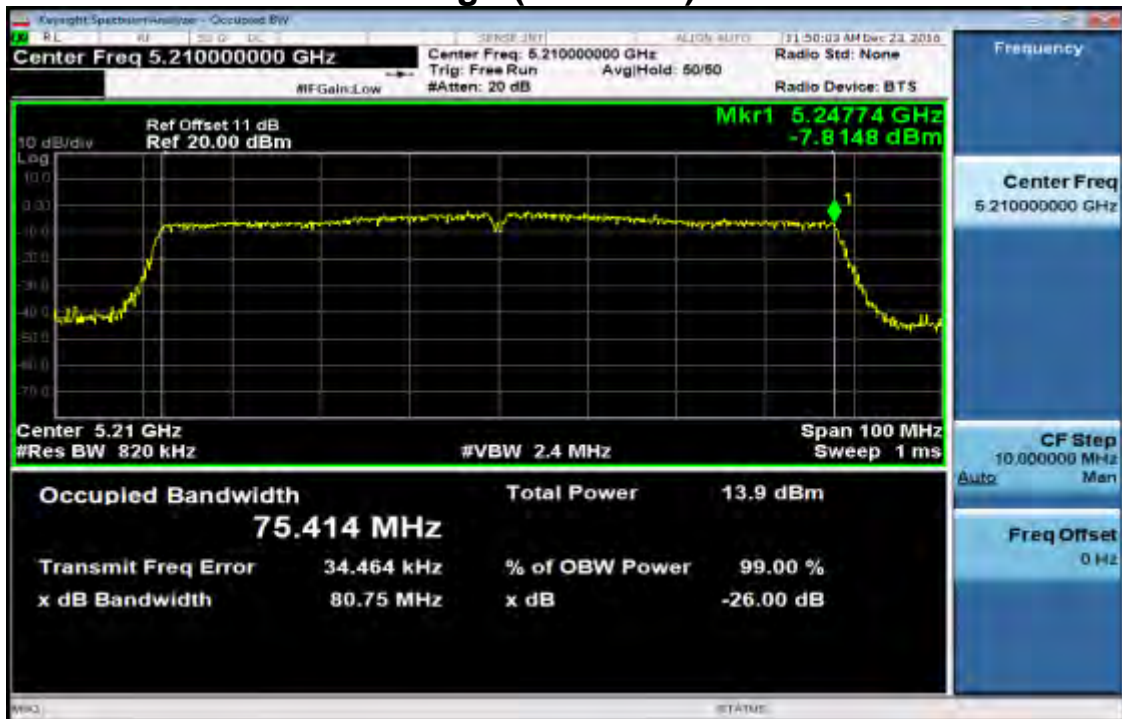
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**802.11ac VHT80, 5150~5250 MHz (Main)  
26dB Band Width Test Data CH-Mid (5210MHz)**



**99% Band Width Test Data CH-High (5210MHz)**



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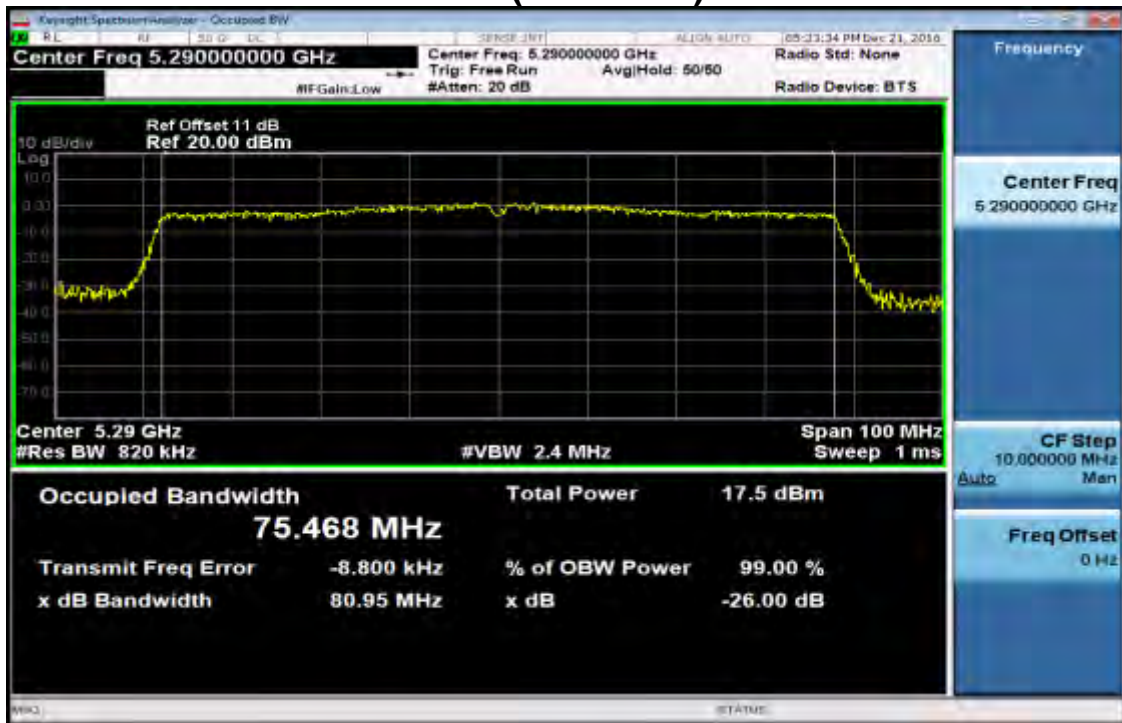
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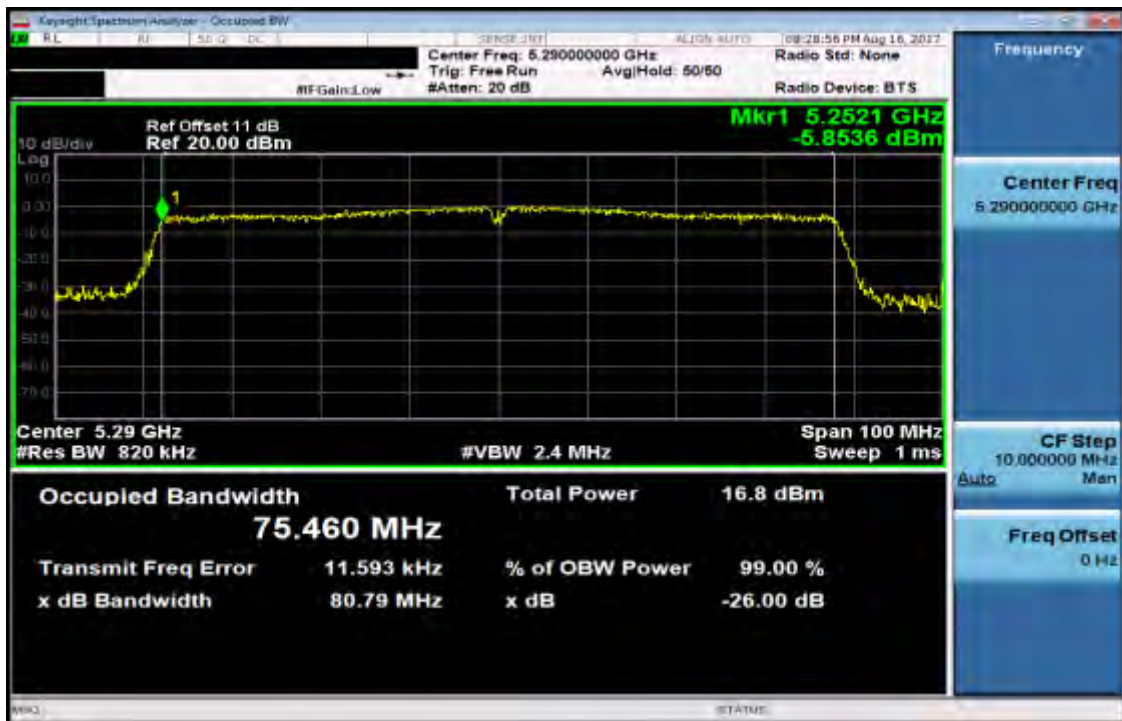
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802.11ac VHT80, 5250~5350 MHz  
26dB Band Width Test Data CH-Mid (5290 MHz)



99% Band Width Test Data CH-Mid (5290 MHz)



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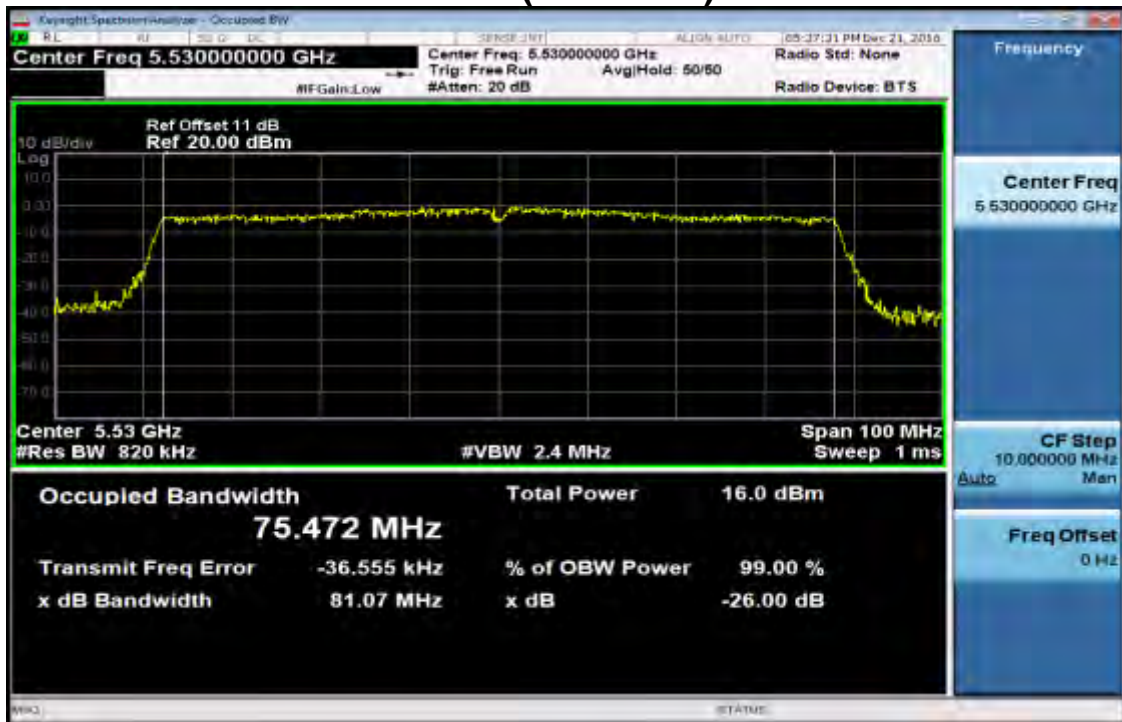
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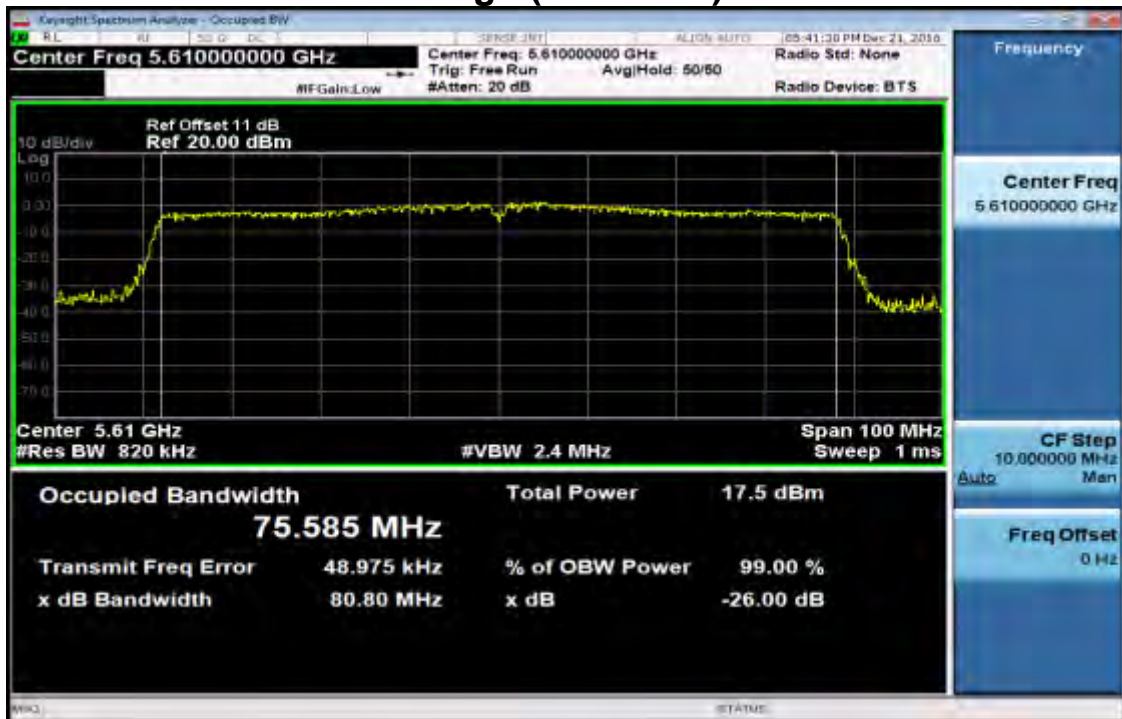
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**802.11ac VHT80, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5530 MHz)**



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



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### 26dB Band Width Test Data CH-Low (5690 MHz)



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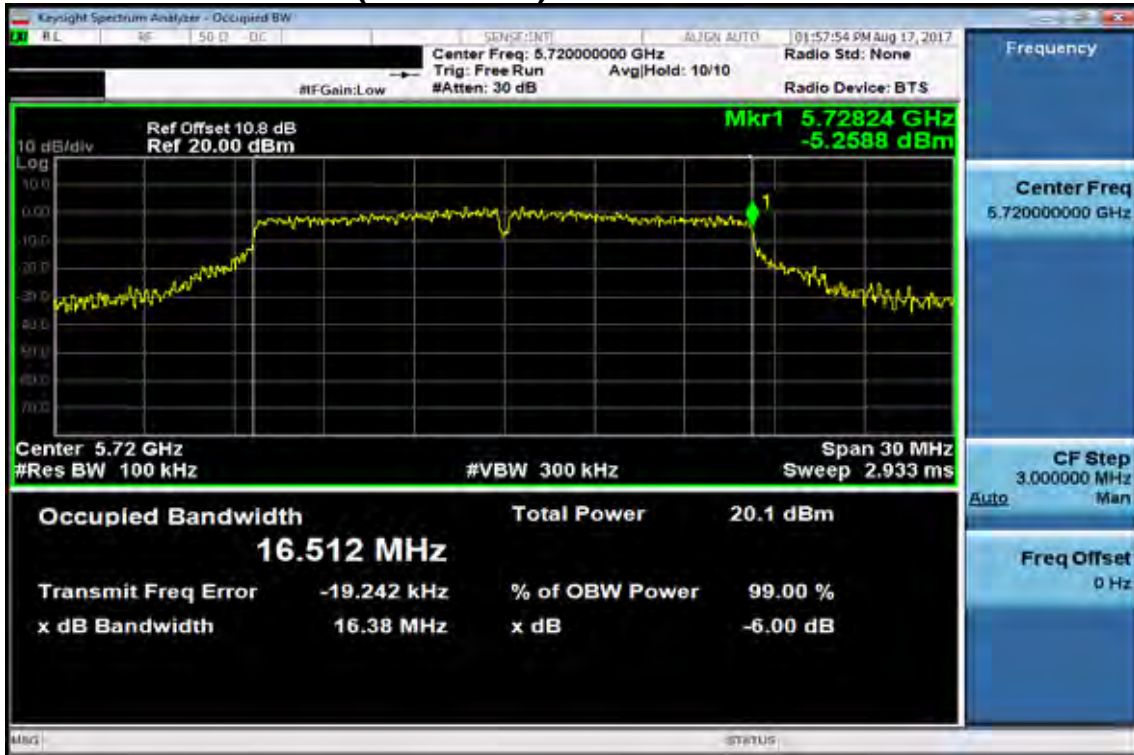
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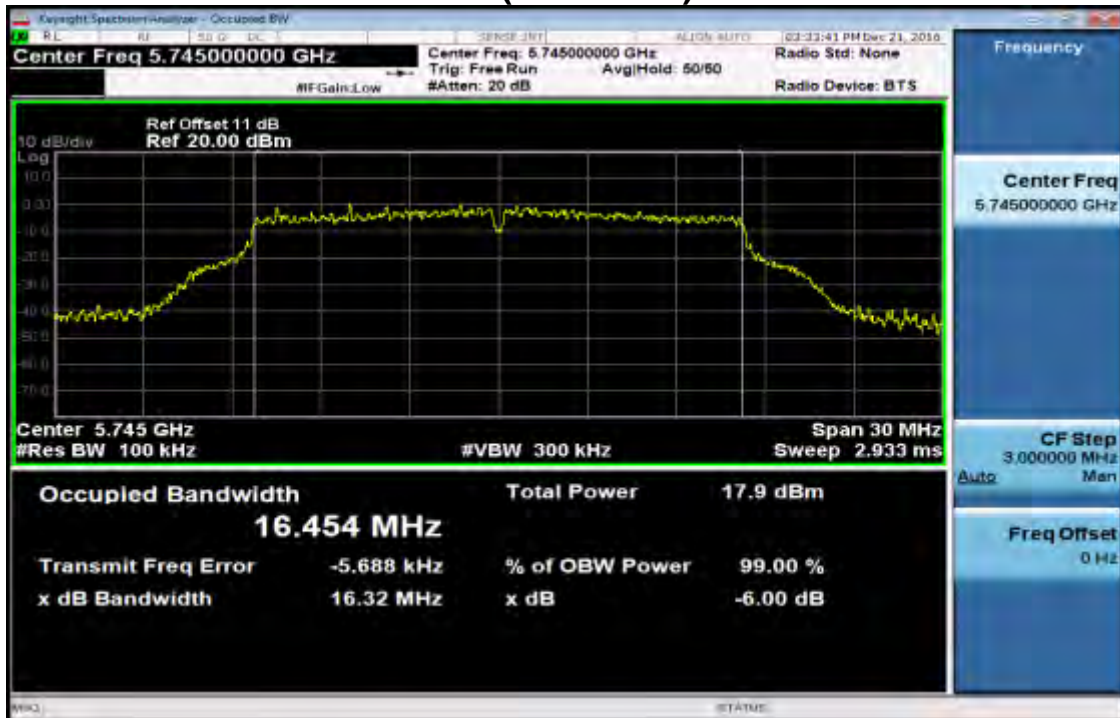


802.11a, 5725~5850 MHz (Main)

6dB Band Width Test Data (5720 MHz) Note: 5728.24-5725=3.24 MHz



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



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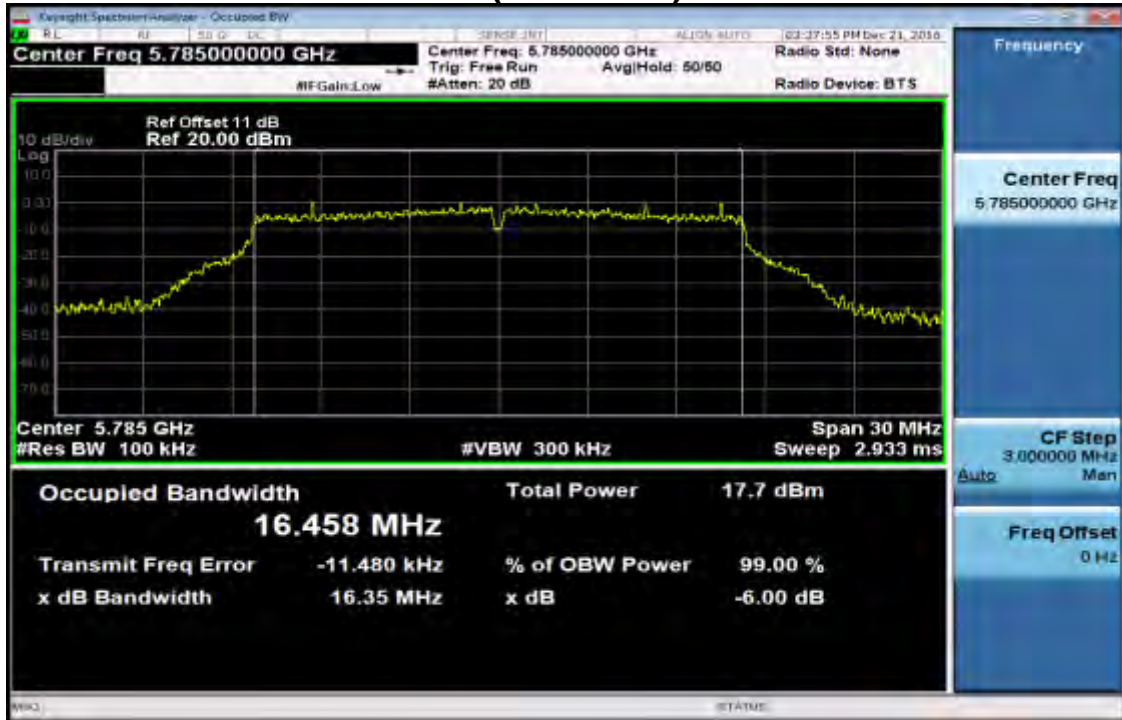
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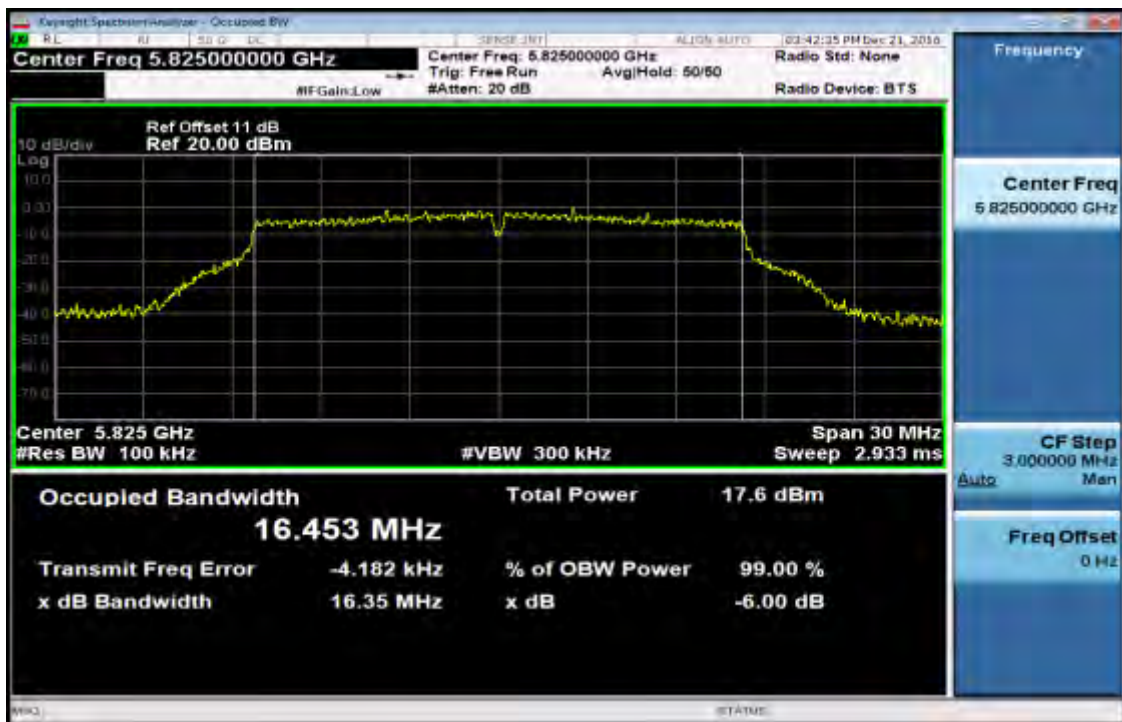
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### 6dB Band Width Test Data CH-Mid (5785 MHz)



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



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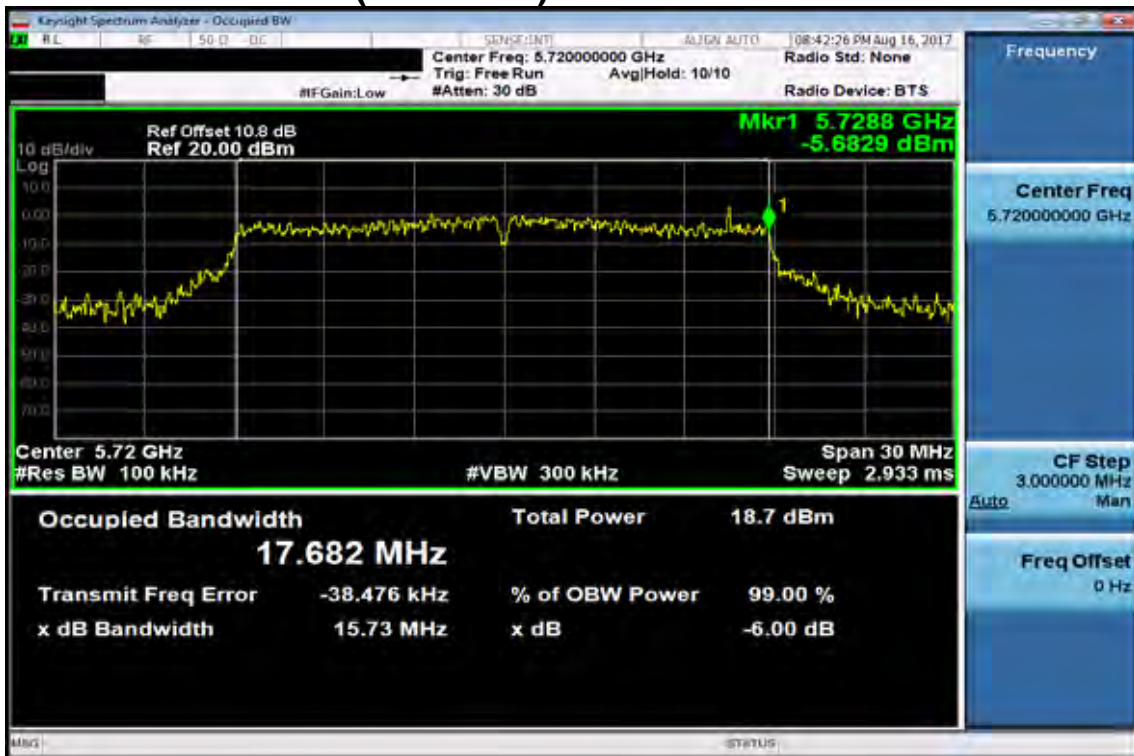
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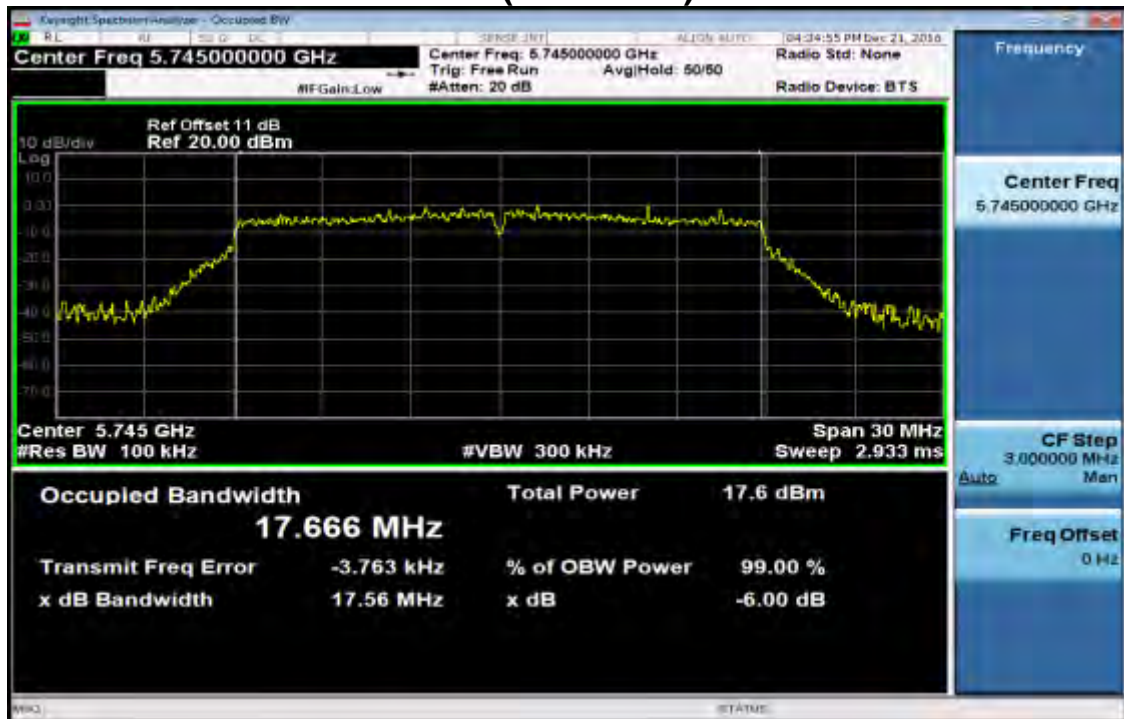
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**802.11n\_HT20, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data (5720 MHz) Note: 5728.8-5725=3.8 MHz**



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



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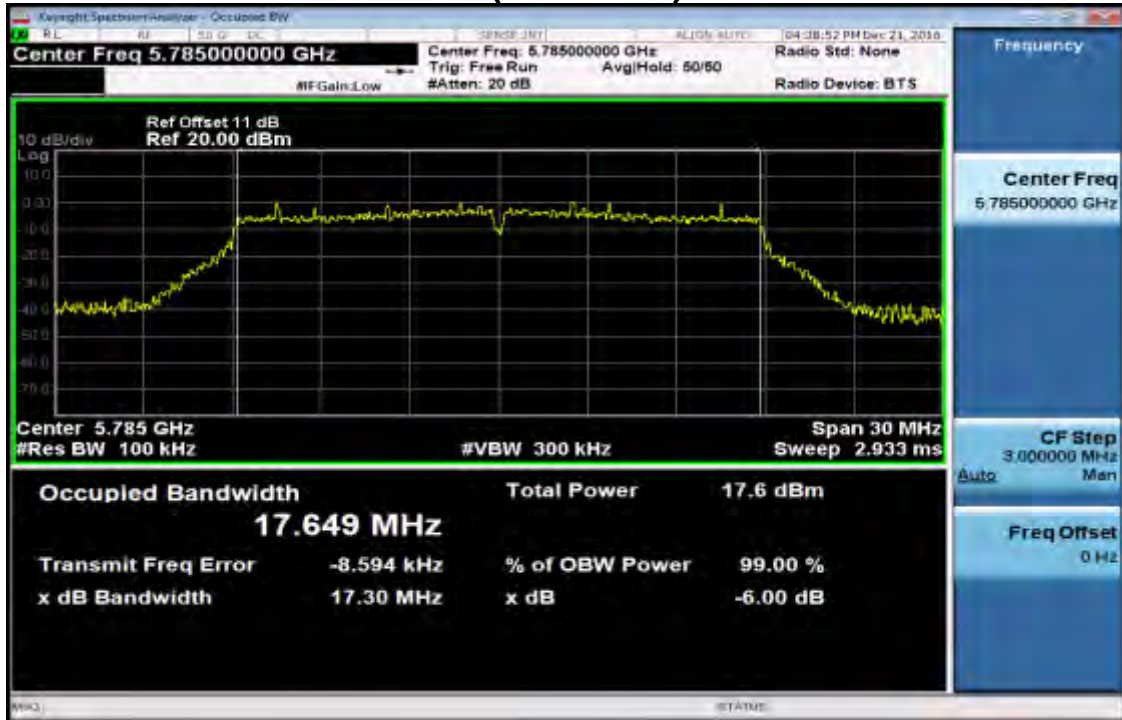
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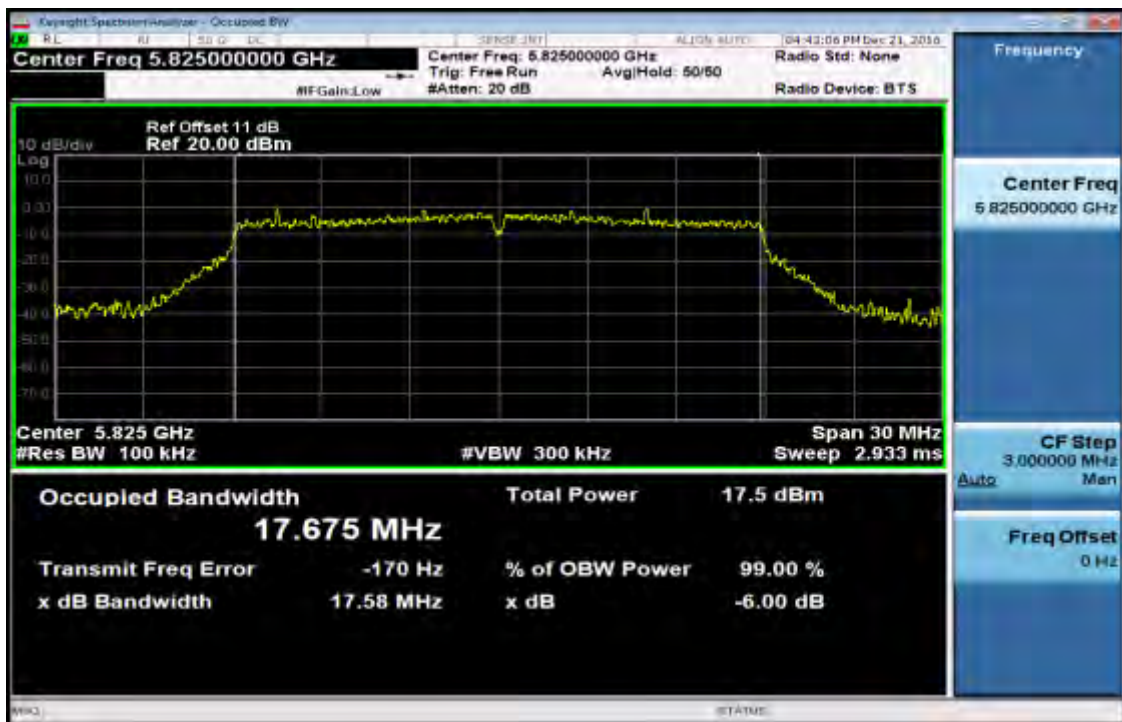
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### 6dB Band Width Test Data CH-Mid (5785 MHz)



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



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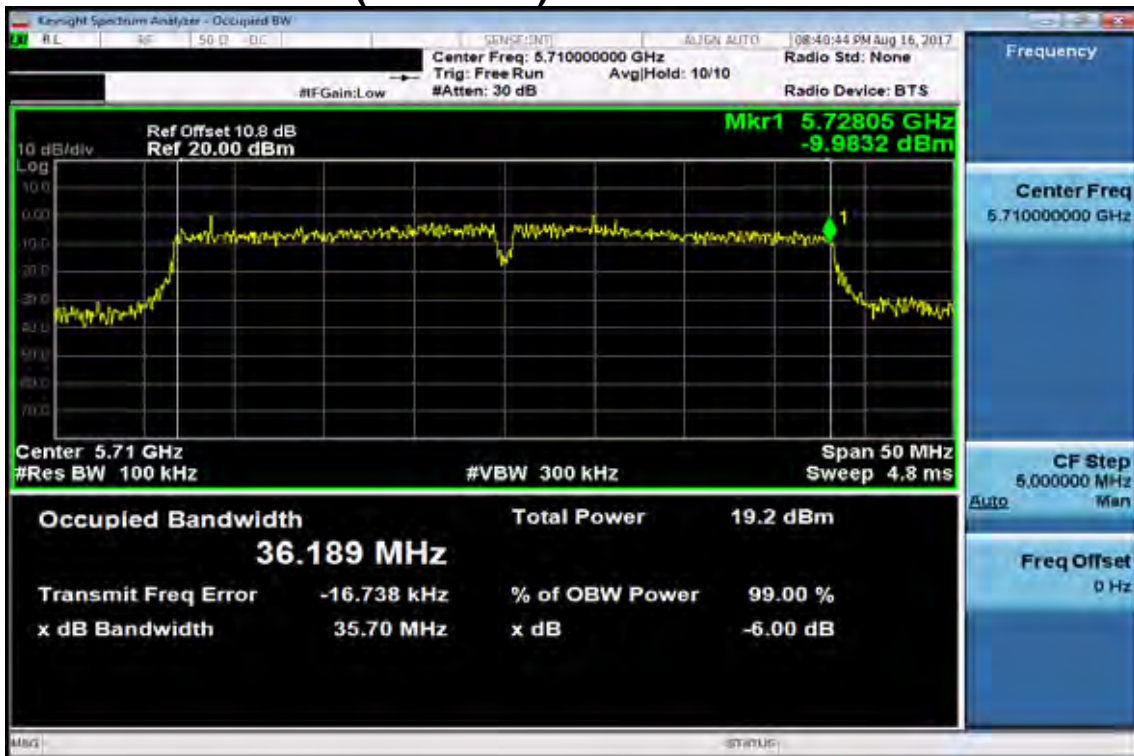
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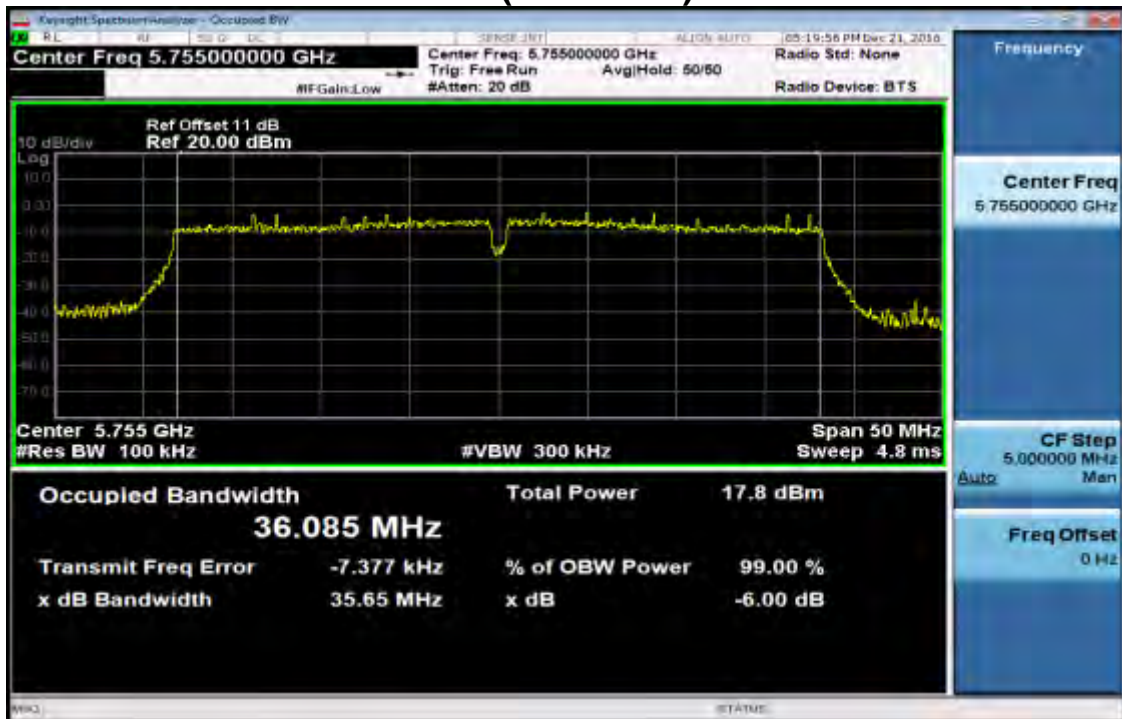
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**802.11n\_HT40, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data (5710 MHz) Note: 5728.05-5725=3.05 MHz**



**6dB Band Width Test Data CH-Low (5755 MHz)**



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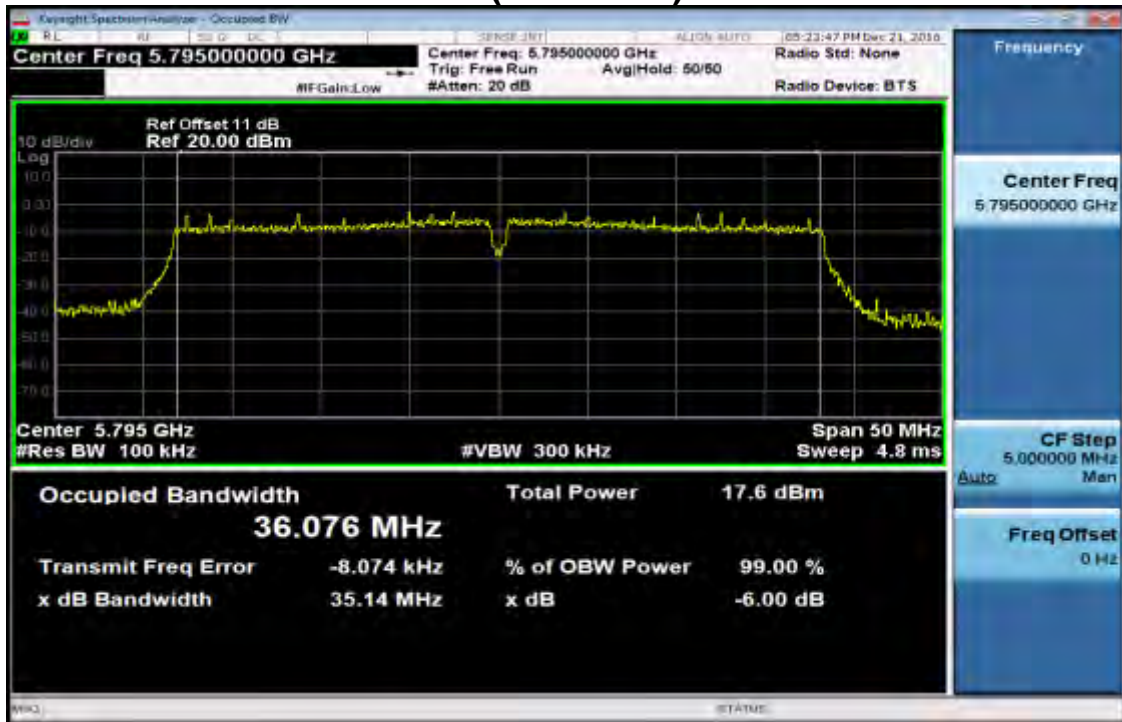
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### 6dB Band Width Test Data CH-Mid (5795 MHz)



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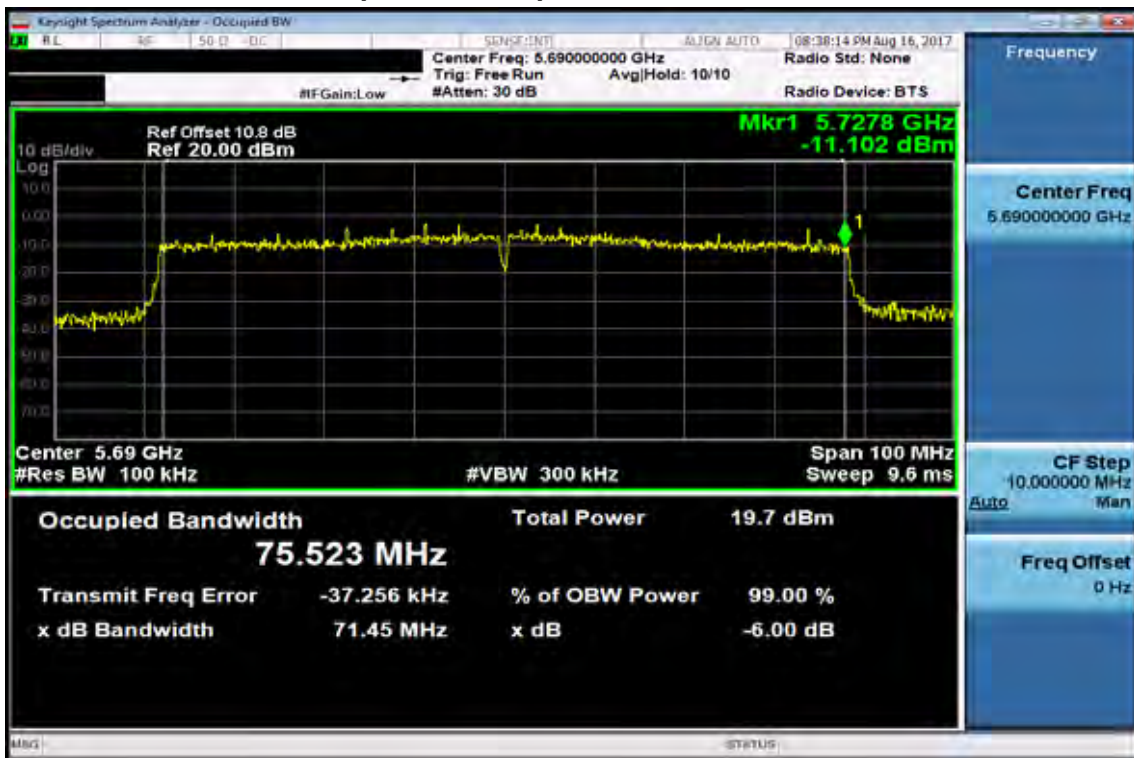
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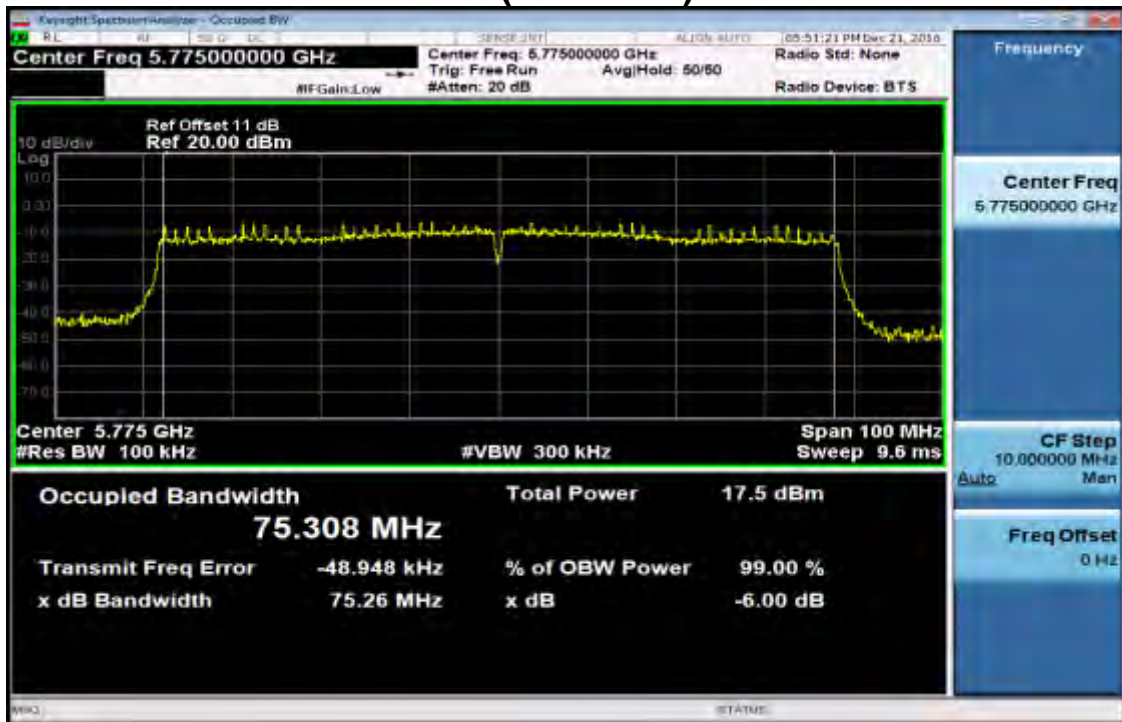
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**802.11ac VHT80, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data (5690 MHz) Note: 5727.8-5725=2.8 MHz**



**6dB Band Width Test Data CH-Low (5775 MHz)**



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## 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device )	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	√	Mobile and portable 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 transmit power and the power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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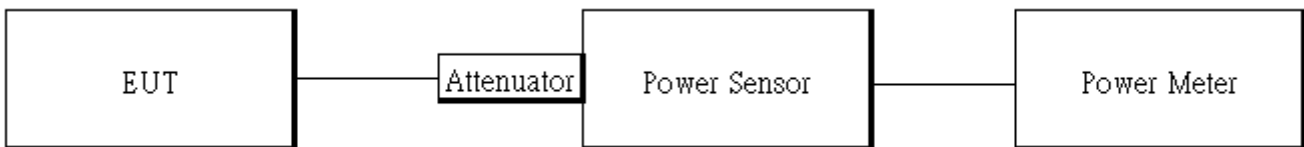
## 9.2 Measurement Procedure

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

## 9.3 Measurement Equipment Used

Refer to section 8.4 for the plots.

## 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	6	13.64	23.121	23.98	PASS
44	5220	6	15.30	33.884	23.98	PASS
48	5240	6	<b>15.33</b>	<b>34.119</b>	23.98	PASS
52	5260	6	15.05	31.989	23.98 or $11+10\log(B) = 24.30$	PASS
60	5300	6	<b>15.12</b>	<b>32.509</b>	23.98 or $11+10\log(B) = 24.24$	PASS
64	5320	6	15.06	32.063	23.98 or $11+10\log(B) = 24.27$	PASS
100	5500	6	14.84	30.479	23.98 or $11+10\log(B) = 24.26$	PASS
116	5580	6	<b>16.04</b>	<b>40.179</b>	23.98 or $11+10\log(B) = 24.85$	PASS
140	5700	6	15.21	33.189	23.98 or $11+10\log(B) = 24.21$	PASS
144	5720 (UNII 2C)	6	11.44	13.925	23.98 or $11+10\log(B) = 26.10$	PASS
144	5720 (UNII 3)	6	3.90	2.455	30	PASS
149	5745	6	<b>13.23</b>	<b>21.038</b>	30	PASS
157	5785	6	12.97	19.815	30	PASS
165	5825	6	12.99	19.907	30	PASS

#### 802.11n\_HT20\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.19	20.845	23.98	PASS
44	5220	MCS0	<b>15.05</b>	<b>31.989</b>	23.98	PASS
48	5240	MCS0	15.04	31.915	23.98	PASS
52	5260	MCS0	<b>14.84</b>	<b>30.479</b>	23.98 or $11+10\log(B) = 24.37$	PASS
60	5300	MCS0	14.80	30.200	23.98 or $11+10\log(B) = 24.61$	PASS
64	5320	MCS0	14.74	29.785	23.98 or $11+10\log(B) = 24.30$	PASS
100	5500	MCS0	15.01	31.696	23.98 or $11+10\log(B) = 24.27$	PASS
116	5580	MCS0	<b>15.71</b>	<b>37.239</b>	23.98 or $11+10\log(B) = 24.33$	PASS
140	5700	MCS0	14.86	30.620	23.98 or $11+10\log(B) = 24.29$	PASS
144	5720 (UNII 2C)	MCS0	11.84	15.276	23.98 or $11+10\log(B) = 22.94$	PASS
144	5720 (UNII 3)	MCS0	4.12	2.582	30	PASS
149	5745	MCS0	<b>12.88</b>	<b>19.409</b>	30	PASS
157	5785	MCS0	12.83	19.187	30	PASS
165	5825	MCS0	12.69	18.578	30	PASS

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### 802.11n\_HT40\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.12	10.280	23.98	PASS
46	5230	MCS0	<b>14.43</b>	<b>27.733</b>	23.98	PASS
54	5270	MCS0	<b>14.40</b>	<b>27.542</b>	23.98 or $11+10\log(B) = 27.03$	PASS
62	5310	MCS0	11.49	14.093	23.98 or $11+10\log(B) = 26.95$	PASS
102	5510	MCS0	13.05	20.184	23.98 or $11+10\log(B) = 26.98$	PASS
110	5550	MCS0	14.56	28.576	23.98 or $11+10\log(B) = 26.99$	PASS
134	5670	MCS0	<b>14.68</b>	<b>29.376</b>	23.98 or $11+10\log(B) = 26.99$	PASS
142	5710 (UNII 2C)	MCS0	13.02	20.045	23.98 or $11+10\log(B) = 26.42$	PASS
142	5710 (UNII 3)	MCS0	1.79	1.510	30	PASS
151	5755	MCS0	12.54	17.947	30	PASS
159	5795	MCS0	<b>12.70</b>	<b>18.621</b>	30	PASS

### 802.11ac\_VHT80\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>6.73</b>	<b>4.710</b>	23.98	PASS
58	5290	MCS0	<b>10.47</b>	<b>11.143</b>	23.98 or $11+10\log(B) = 30.08$	PASS
106	5530	MCS0	8.86	7.691	23.98 or $11+10\log(B) = 30.09$	PASS
122	5610	MCS0	<b>9.92</b>	<b>9.817</b>	23.98 or $11+10\log(B) = 30.07$	PASS
138	5690 (UNII 2C)	MCS0	10.78	11.967	23.98 or $11+10\log(B) = 29.76$	PASS
138	5690 (UNII 3)	MCS0	0.77	1.194	30	PASS
155	5775	MCS0	<b>10.83</b>	<b>12.106</b>	30	PASS

\*Note: Duty cycle factor that offsets on the power meter in Avg.

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## 10. POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

OPERZTION 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 transmit power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 10.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 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)
- Use the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all default test channel (low, middle, and high) was complete.

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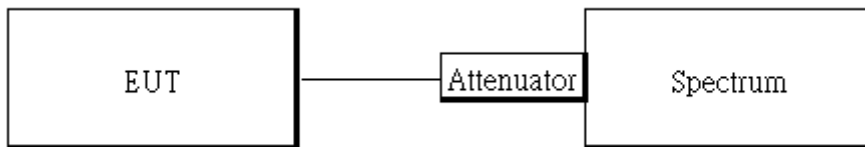
### 10.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL 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

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

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

### 10.4 Test Set-up



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## 10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.73	11	-9.27
5220	3.44	11	-7.56
5240	3.95	11	-7.05
5260	3.70	11	-7.30
5300	3.31	11	-7.69
5320	2.91	11	-8.09
5500	3.37	11	-7.63
5580	3.69	11	-7.31
5700	3.72	11	-7.28
5720 (UNII 2C)	3.81	11	-7.19
5720 (UNII 3)	7.34	30	-22.66
5745	6.27	30	-23.73
5785	5.64	30	-24.36
5825	5.90	30	-24.10

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.78	11	-10.22
5220	2.94	11	-8.06
5240	2.86	11	-8.14
5260	2.88	11	-8.12
5300	1.91	11	-9.09
5320	2.39	11	-8.61
5500	2.17	11	-8.83
5580	3.40	11	-7.60
5700	3.47	11	-7.53
5720 (UNII-2C)	3.83	11	-26.18
5720 (UNII-3)	6.16	30	-23.84
5745	6.05	30	-23.95
5785	5.40	30	-24.60
5825	6.86	30	-23.14

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD (dBm)	Duty Factor	Total PSD (dBm)	Limit (dBm)	Margin (dB)
5190	-5.32	0.11	-5.21	11	-16.21
5230	-0.84	0.11	-0.73	11	-11.73
5270	-1.13	0.11	-1.02	11	-12.02
5310	-4.43	0.11	-4.32	11	-15.32
5510	-3.44	0.11	-3.33	11	-14.33
5550	-1.46	0.11	-1.35	11	-12.35
5670	-0.52	0.11	-0.41	11	-11.41
5710 (UNII-2C)	-0.83	0.11	-0.72	11	-11.72
5710 (UNII-3)	1.08	0.11	1.19	30	-28.81
5755	2.87	0.11	2.98	30	-27.02
5795	2.41	0.11	2.52	30	-27.48

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD (dBm)	Duty Factor	Total PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.95	0.13	-10.82	11	-21.82
5290	-7.32	0.13	-7.19	11	-18.19
5530	-8.98	0.13	-8.85	11	-19.85
5610	-6.77	0.13	-6.64	11	-17.64
5690(UNII-2C)	-6.70	0.13	-6.57	11	-17.57
5690(UNII-3)	-5.68	0.13	-5.55	11	-16.55
5775	-0.74	0.13	-0.61	30	-30.61

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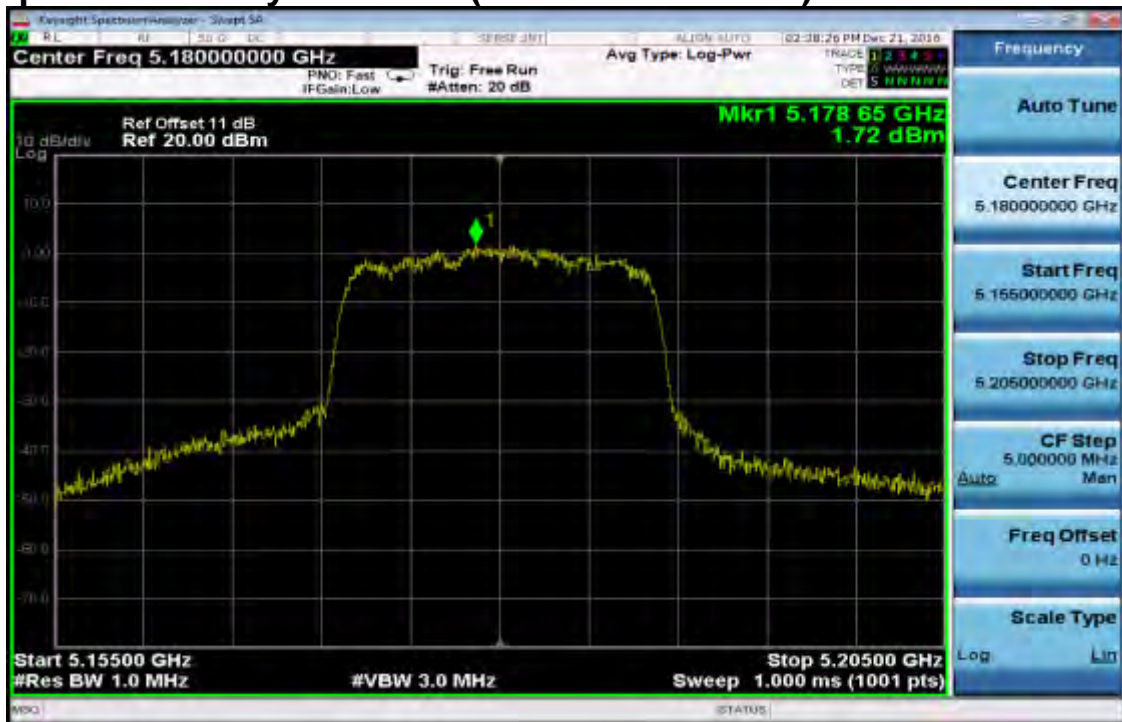
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### 802.11a 5150~5250 MHz Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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



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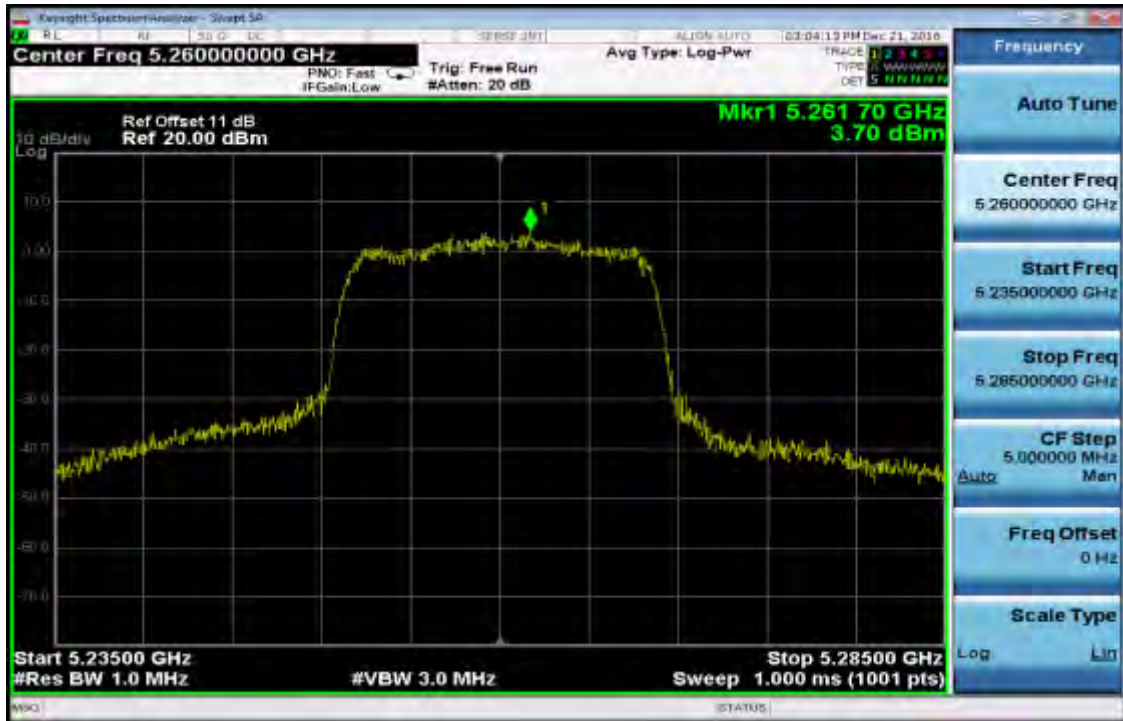
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### 802.11a 5250~5350 MHz Power Spectral Density Data Plot (CH Low 5260 MHz)



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



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



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



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



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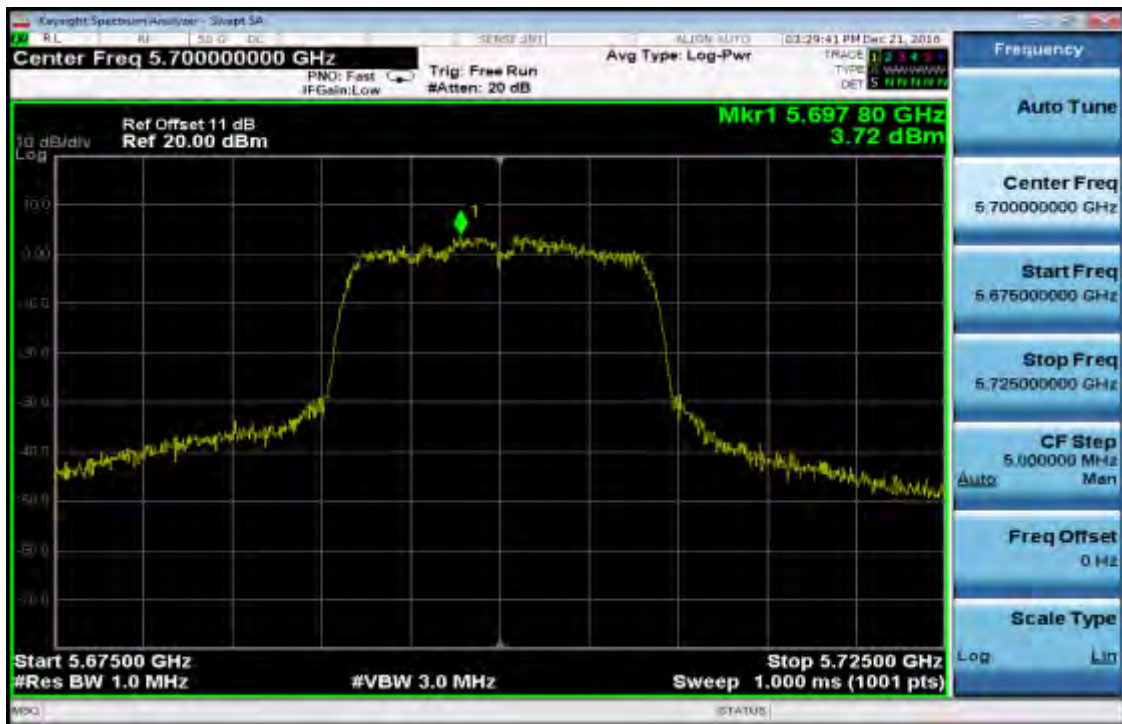
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### Power Spectral Density Data Plot (CH High 5700 MHz)



### Power Spectral Density Data Plot (CH High 5720 MHz)



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### Power Spectral Density Data Plot (CH High 5720 MHz)



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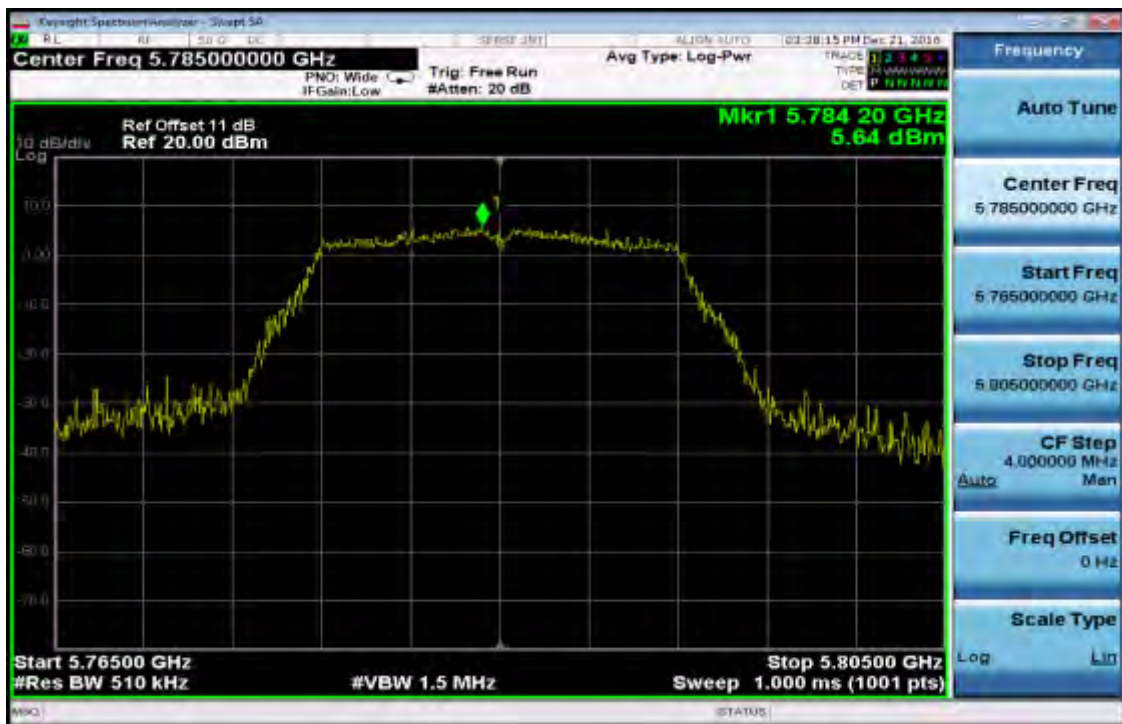
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802.11a 5725~5850 MHz  
Power Spectral Density Data Plot (CH Low 5745 MHz)



Power Spectral Density Data Plot (CH Mid 5785 MHz)



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



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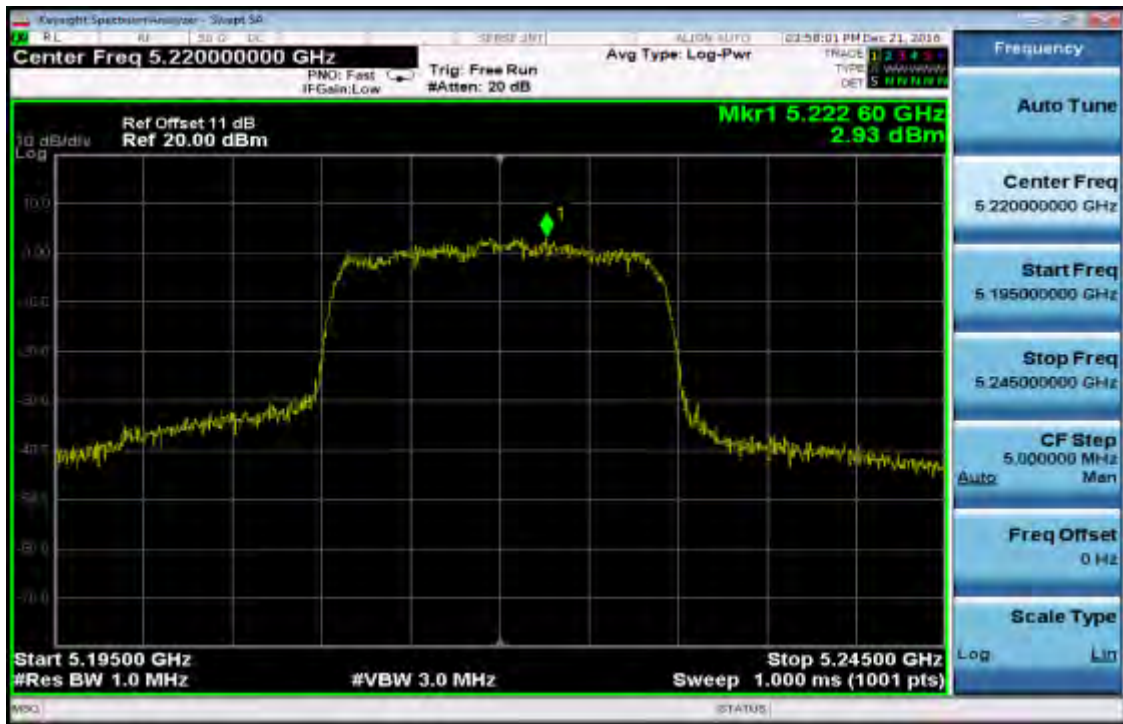
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**802.11n HT20, 5150~5250 MHz**  
**Power Spectral Density Data Plot (CH Low 5180 MHz)**



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



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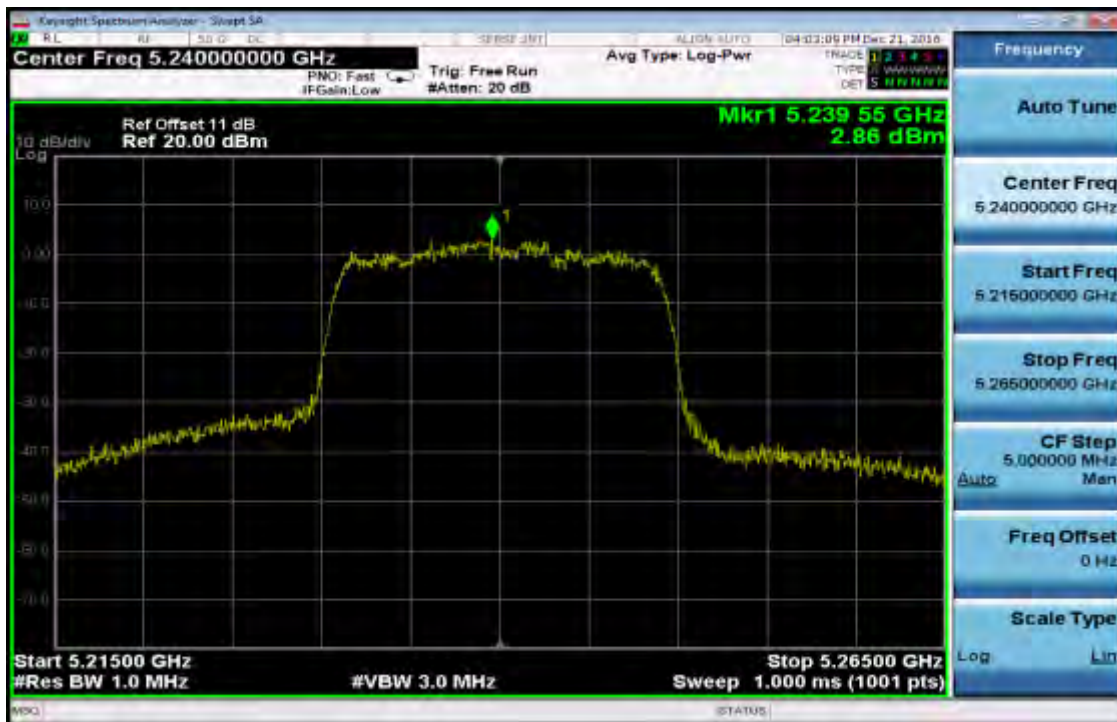
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### Power Spectral Density Data Plot (CH High 5240 MHz)



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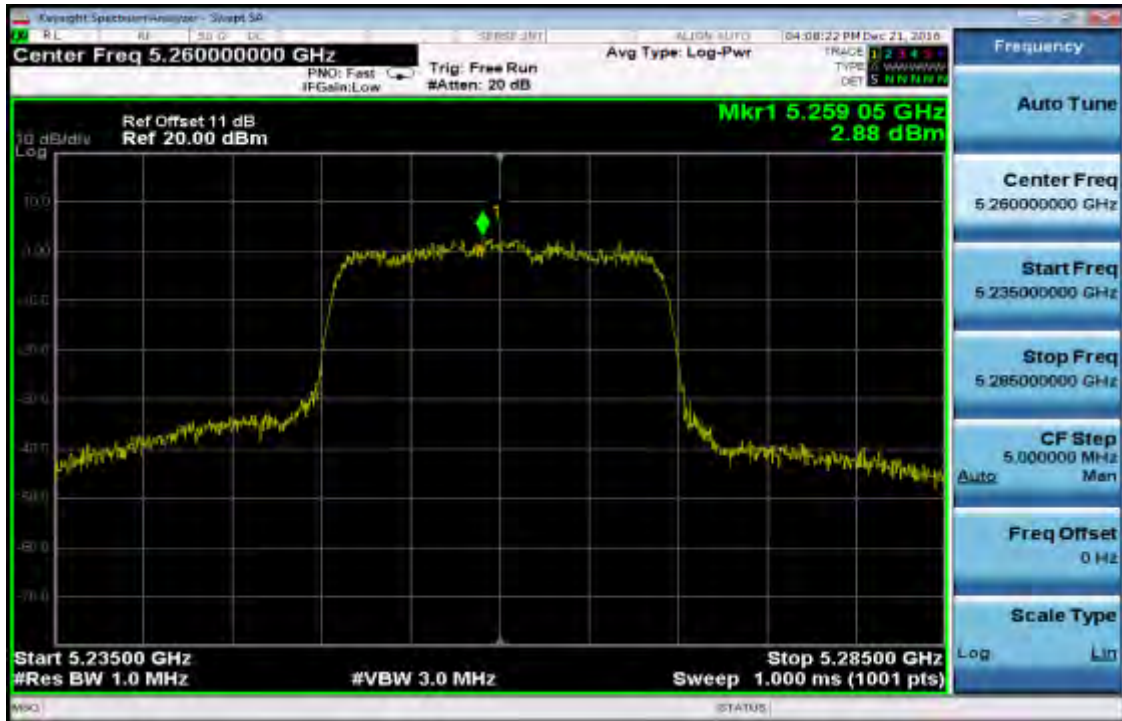
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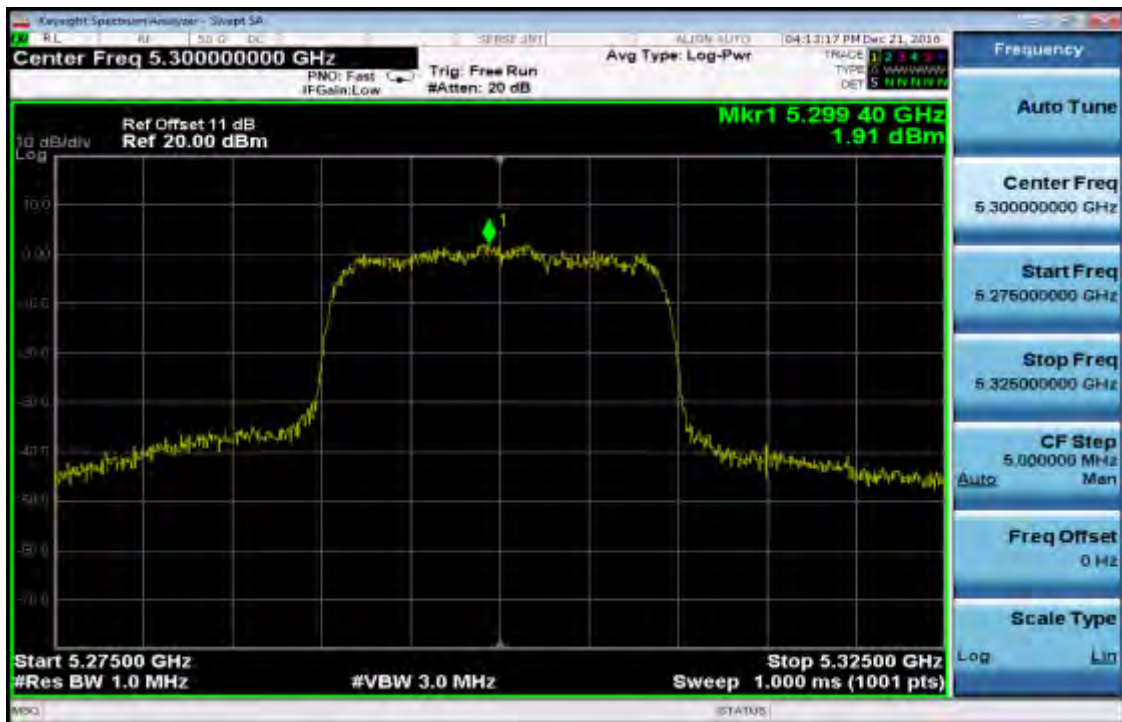
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### 802.11n HT20, 5250~5350 MHz Power Spectral Density Data Plot (CH Low 5260MHz)



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



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



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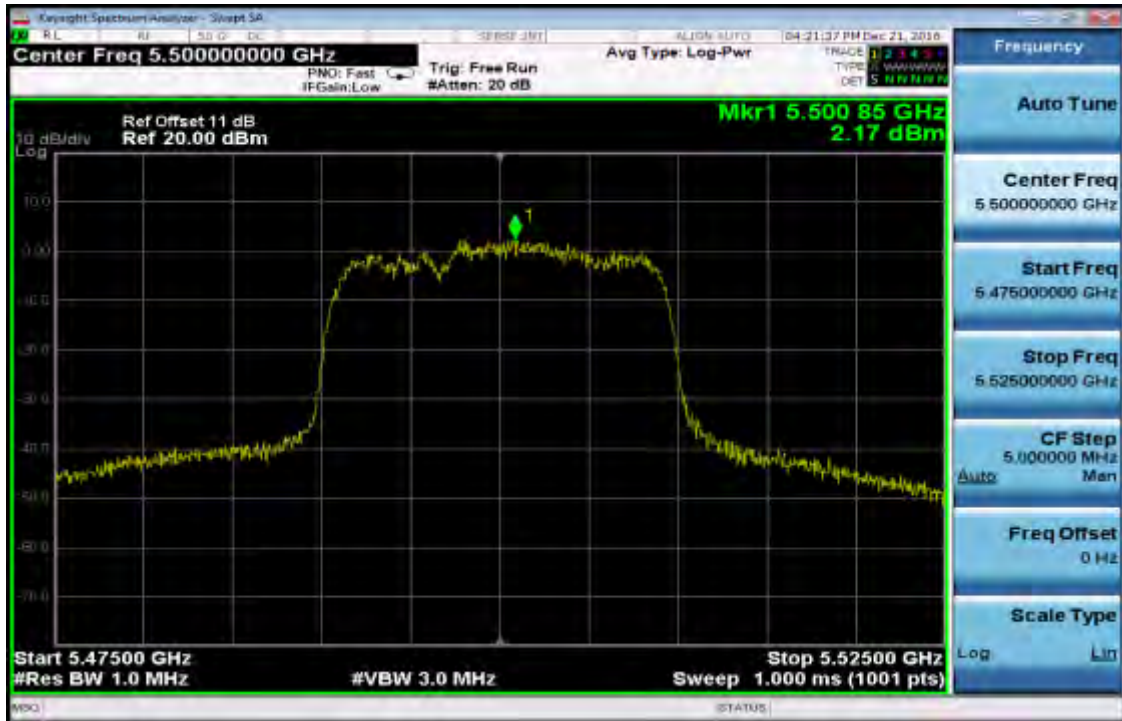
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**802.11n HT20, 5470~5725 MHz  
Power Spectral Density Data Plot (CH Low 5500 MHz)**



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



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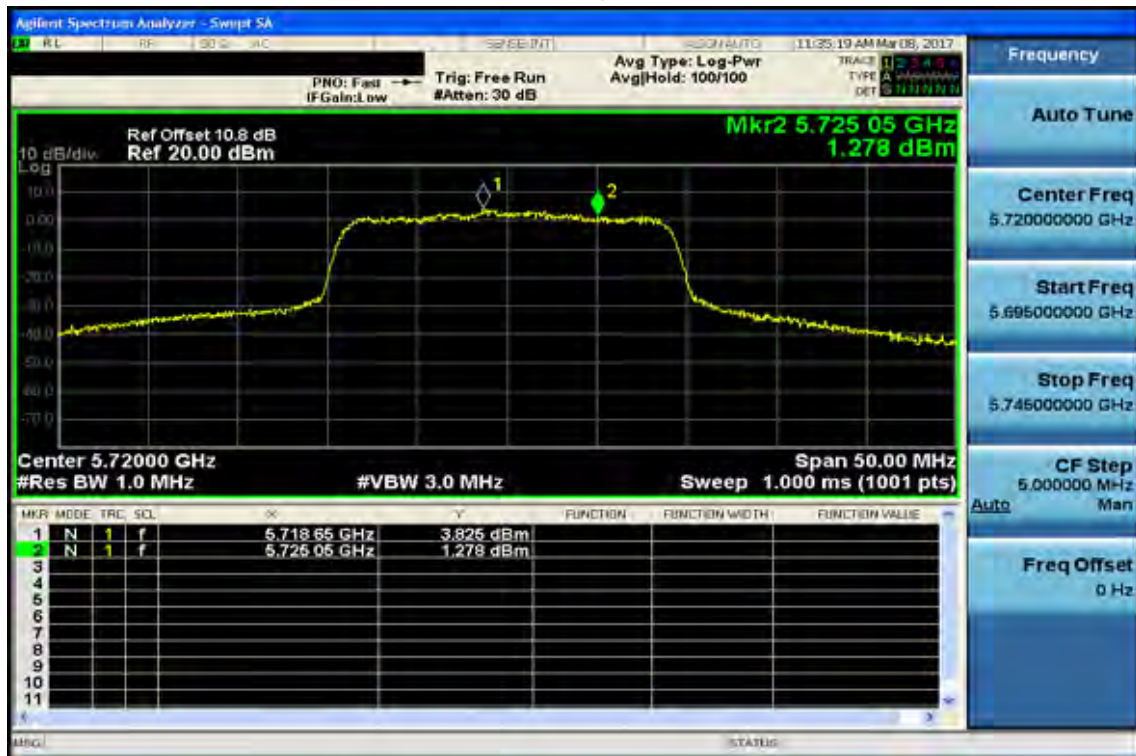
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### Power Spectral Density Data Plot (CH High 5700 MHz)



### Power Spectral Density Data Plot (CH High 5720 MHz)



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### Power Spectral Density Data Plot (CH High 5720 MHz)



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**802.11n HT20, 5725~5850 MHz**  
**Power Spectral Density Data Plot (CH Low 5745 MHz)**



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



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



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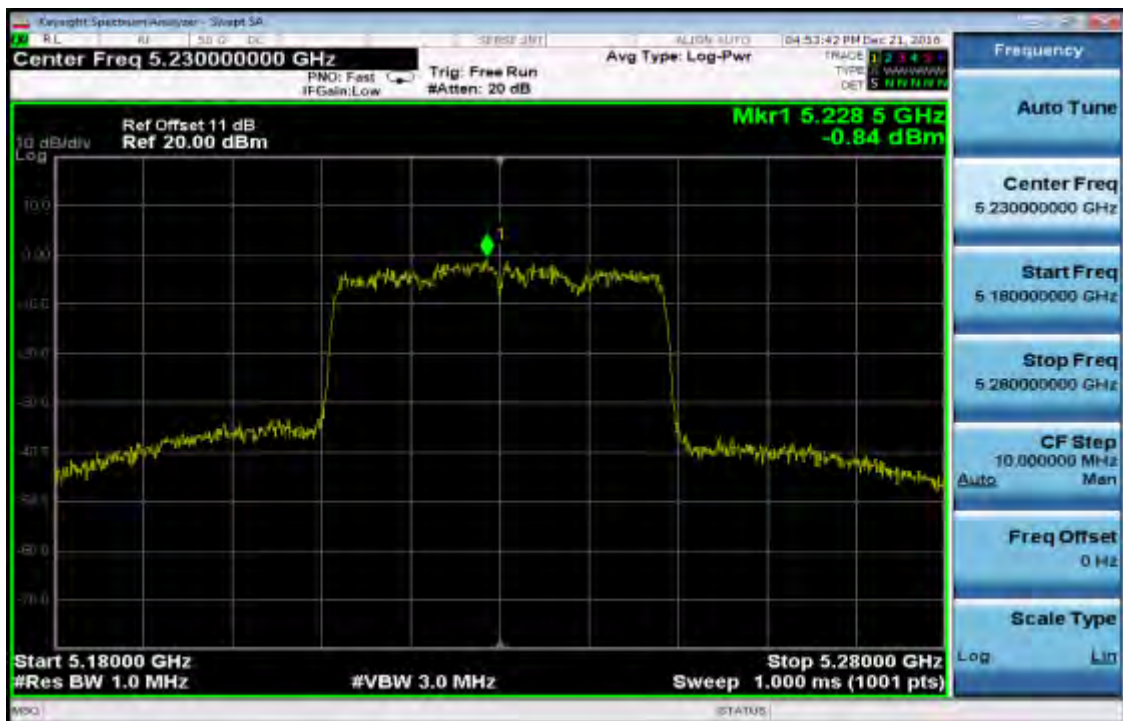
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### Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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



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



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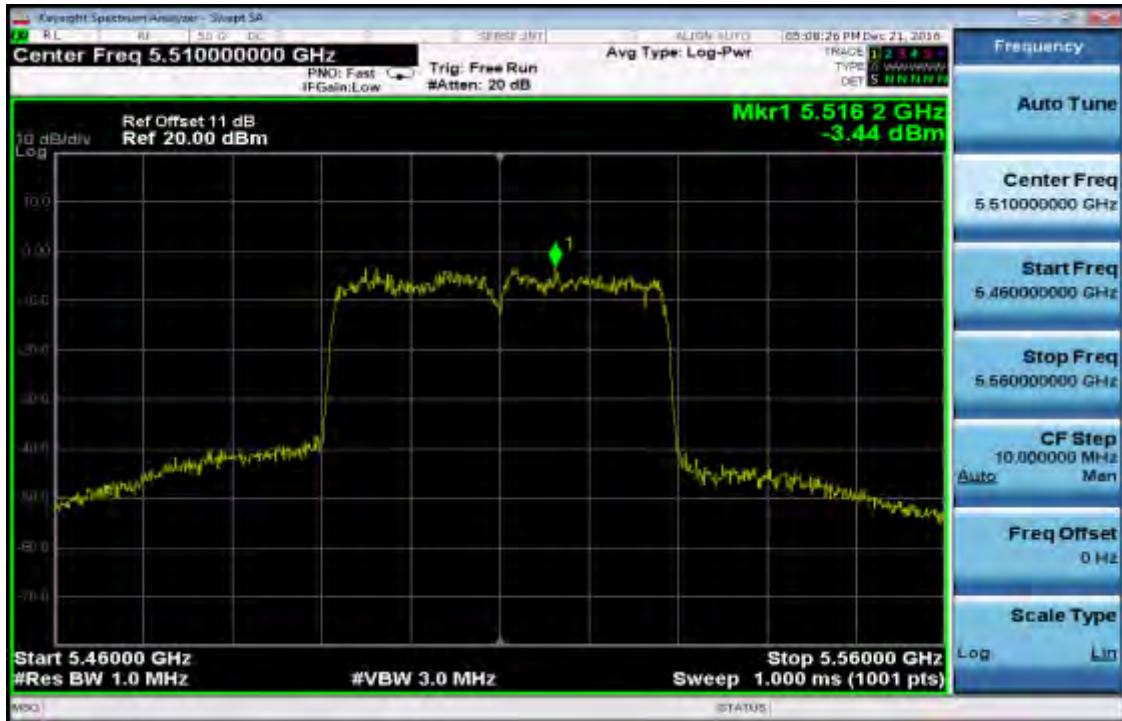
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### 802.11n HT40, 5470~5725 MHz Power Spectral Density Data Plot (CH Low 5510 MHz)



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



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



### Power Spectral Density Data Plot (CH High 5710 MHz)



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### Power Spectral Density Data Plot (CH High 5710 MHz)



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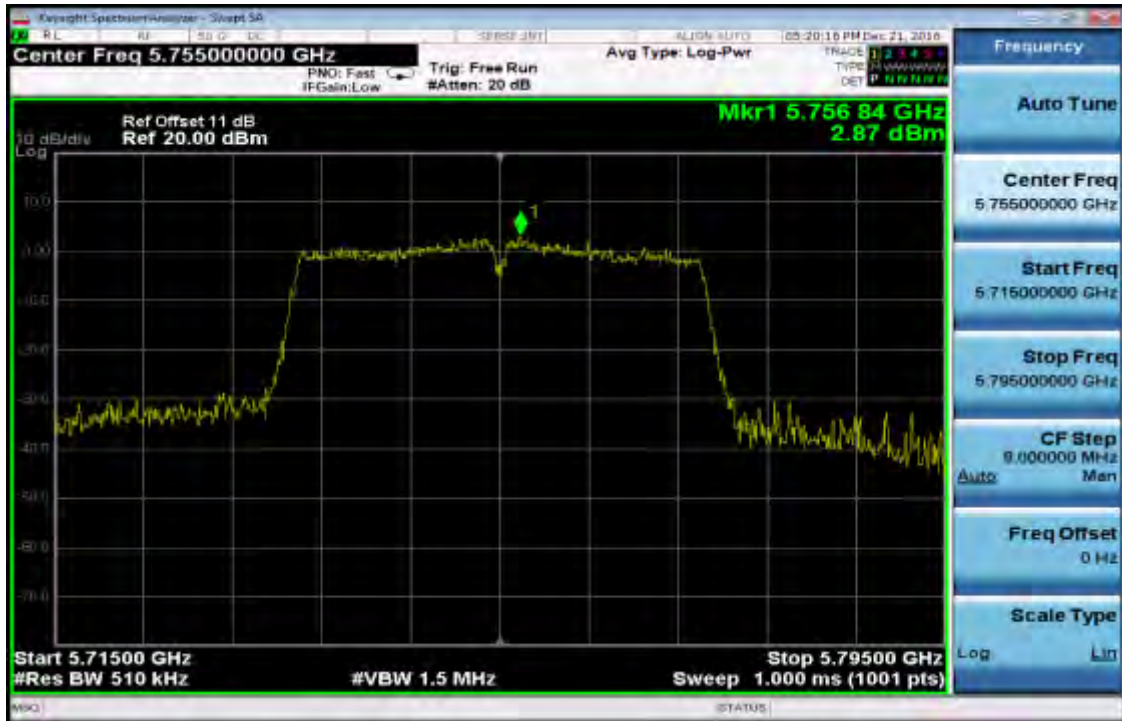
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**802.11n HT40, 5725~5850 MHz**  
**Power Spectral Density Data Plot (CH Low 5755 MHz)**



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



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



### 802.11ac VHT80, 5250~5350 MHz

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



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



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



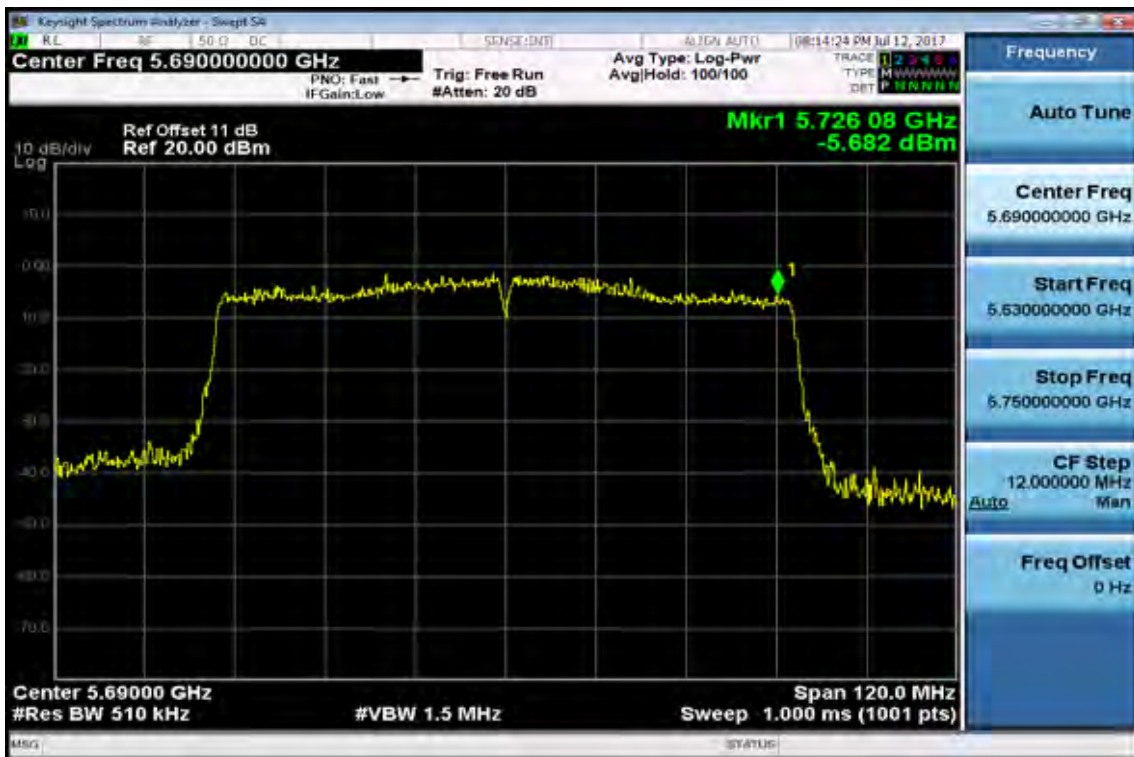
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### Power Spectral Density Data Plot (CH High 5690 MHz)



### Power Spectral Density Data Plot (CH High 5690 MHz)



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802.11ac VHT80, 5725~5850 MHz  
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 v01r04	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>		

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

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

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

**Note:**

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

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## 11.2 Measurement Equipment Used

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2017	01/28/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
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	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/11/2017	05/10/2018
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018

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

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

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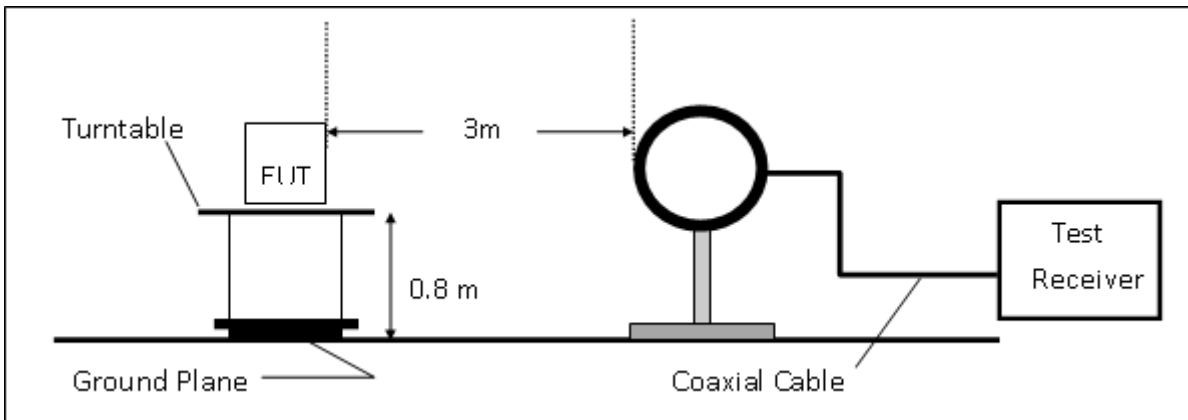
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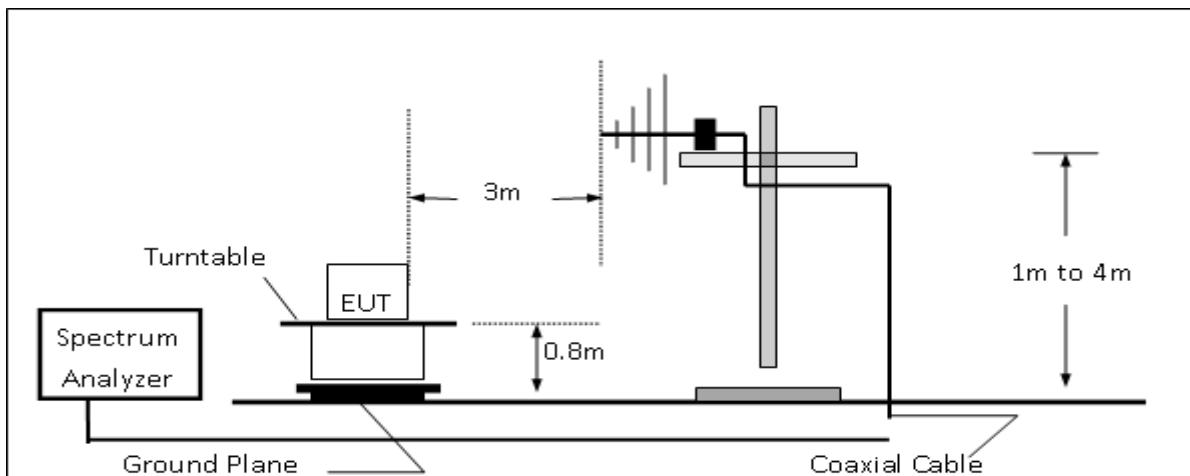
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### 11.3 Test SET-UP

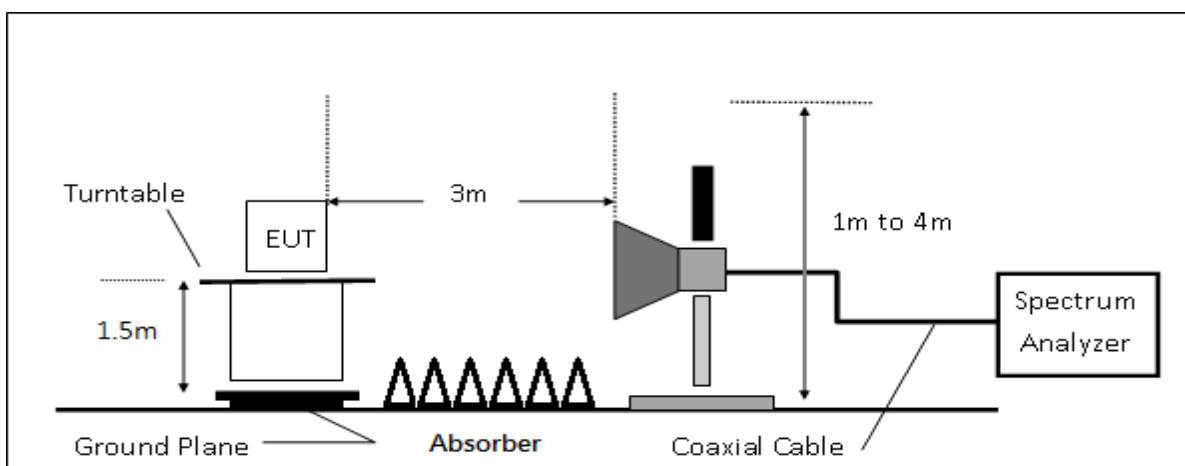
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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### 11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.

Band	Duty Cycle(%)	T(μs)	1/T(kHz)	VBW Setting
802.11n_40MHz	97.57	1405	0.71	1kHz
802.11ac_80MHz	97.14	680	1.47	2kHz

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)

**Note :**

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

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

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

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

## 11.7 Measurement Result

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

Note: For measurement plot of radiation revealing the compliance of 15.407, please refer to Appendix I.

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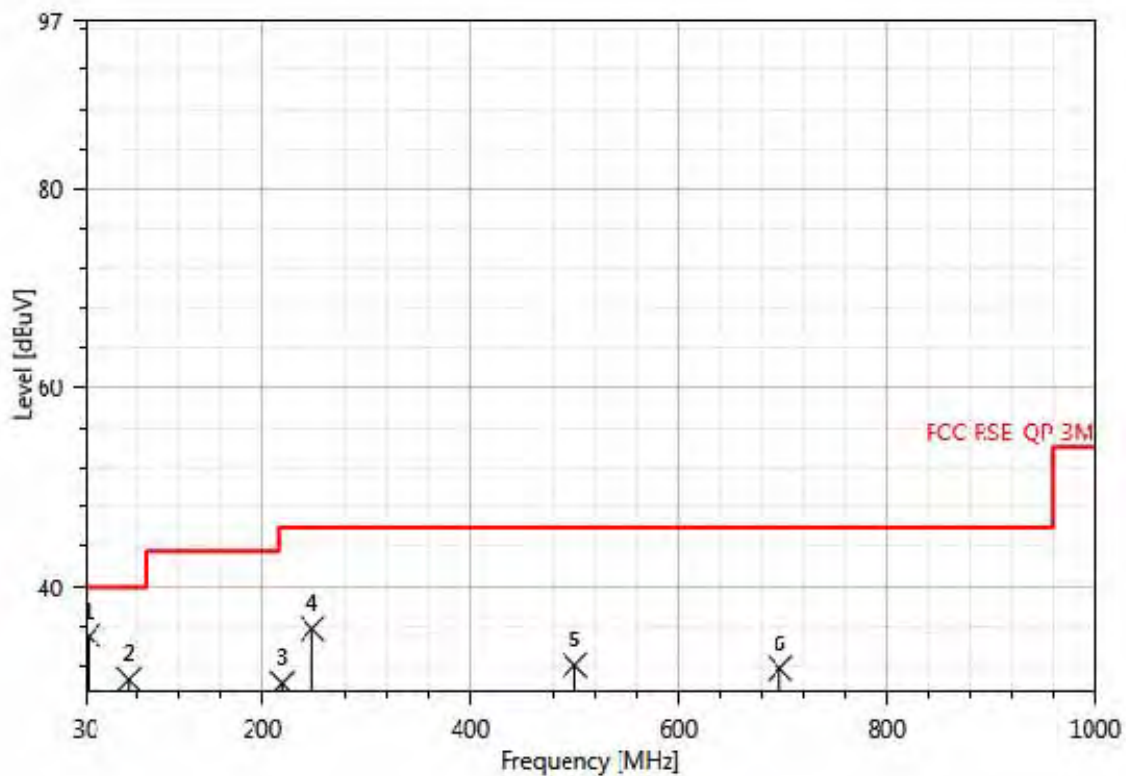


### Radiated Spurious Emission Measurement Result

#### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
32.91	S	Peak	35.04	44.11	-9.07	40.00	-4.96
71.71	S	Peak	30.67	41.28	-10.62	40.00	-9.33
219.15	S	Peak	30.30	39.58	-9.28	46.00	-15.70
248.25	S	Peak	35.78	43.77	-7.98	46.00	-10.22
500.45	S	Peak	32.06	34.74	-2.69	46.00	-13.94
697.36	S	Peak	31.76	30.40	1.36	46.00	-14.24

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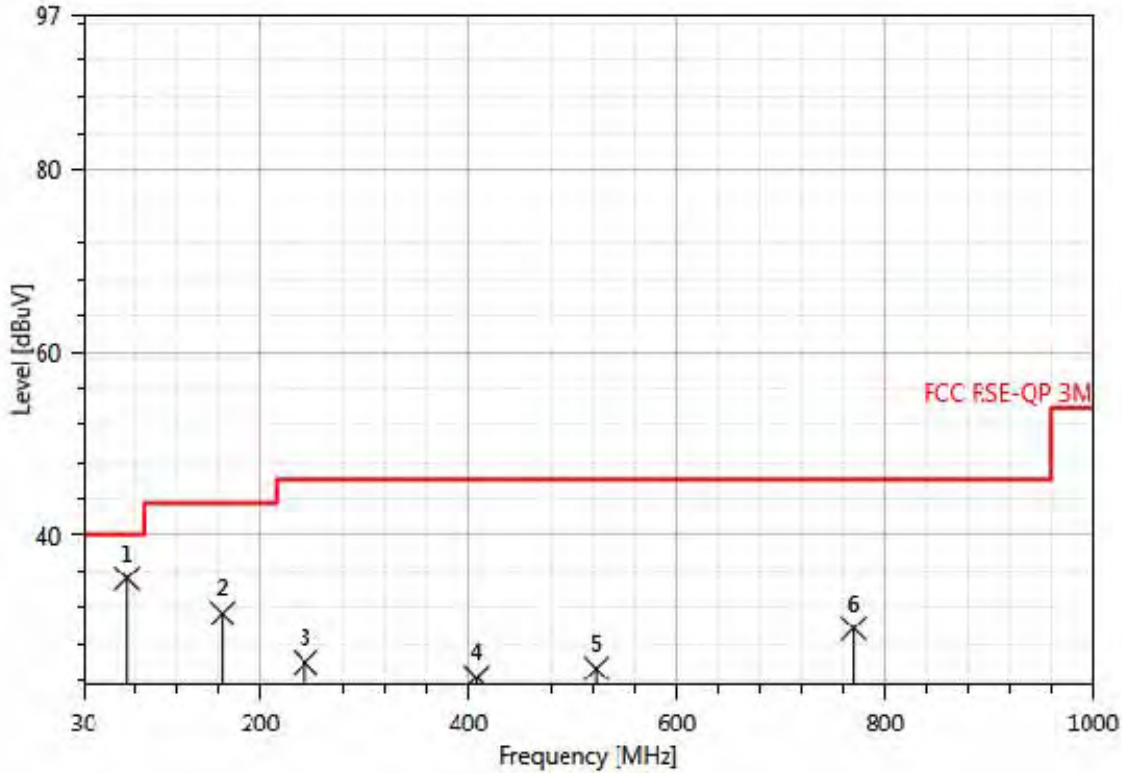
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Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	35.22	45.84	-10.62	40.00	-4.78
163.86	S	Peak	31.39	38.83	-7.44	43.50	-12.11
243.40	S	Peak	26.04	34.07	-8.03	46.00	-19.96
408.30	S	Peak	24.38	27.91	-3.53	46.00	-21.62
522.76	S	Peak	25.35	27.01	-1.66	46.00	-20.65
770.11	S	Peak	29.74	27.06	2.69	46.00	-16.26

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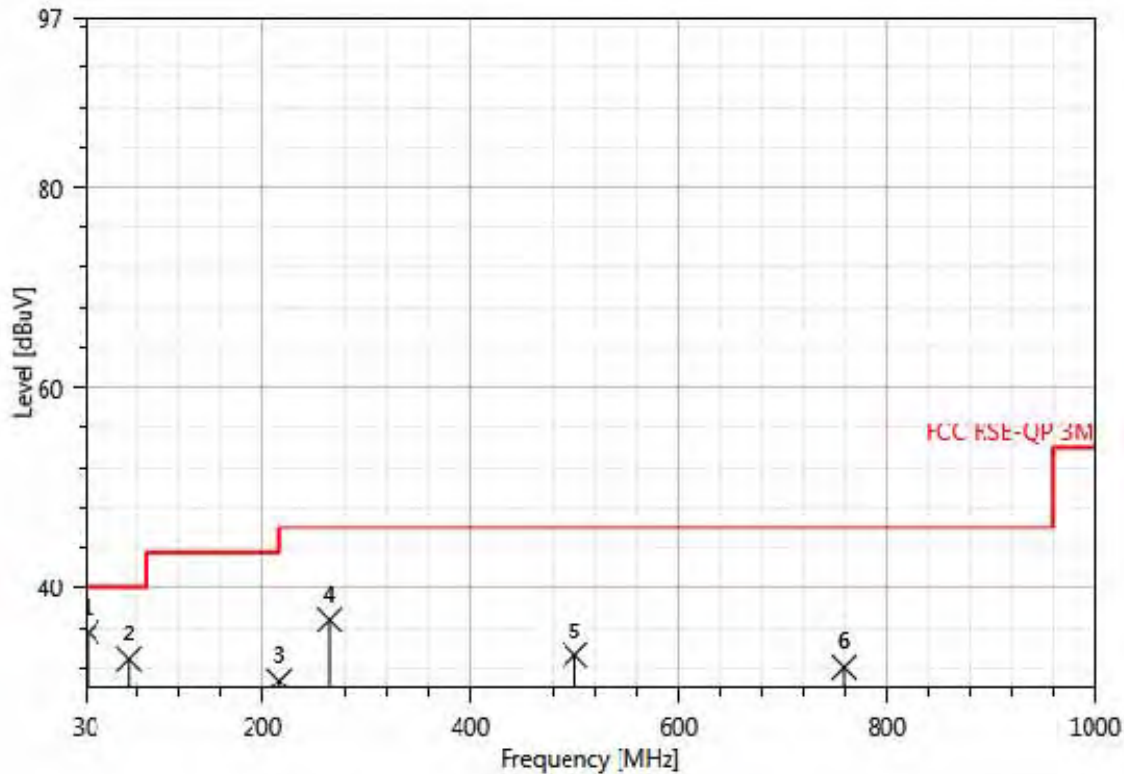
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802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBµV/m	Spectrum FS dBµV/m	Factor dB	Limit @3m dBuV/m	Margin dB
31.94	S	Peak	35.53	44.64	-9.11	40.00	-4.47
71.71	S	Peak	32.84	43.45	-10.62	40.00	-7.16
216.24	S	Peak	30.70	40.12	-9.43	46.00	-15.30
264.74	S	Peak	36.81	43.86	-7.06	46.00	-9.19
500.45	S	Peak	33.23	35.92	-2.69	46.00	-12.77
759.44	S	Peak	32.05	29.04	3.01	46.00	-13.95

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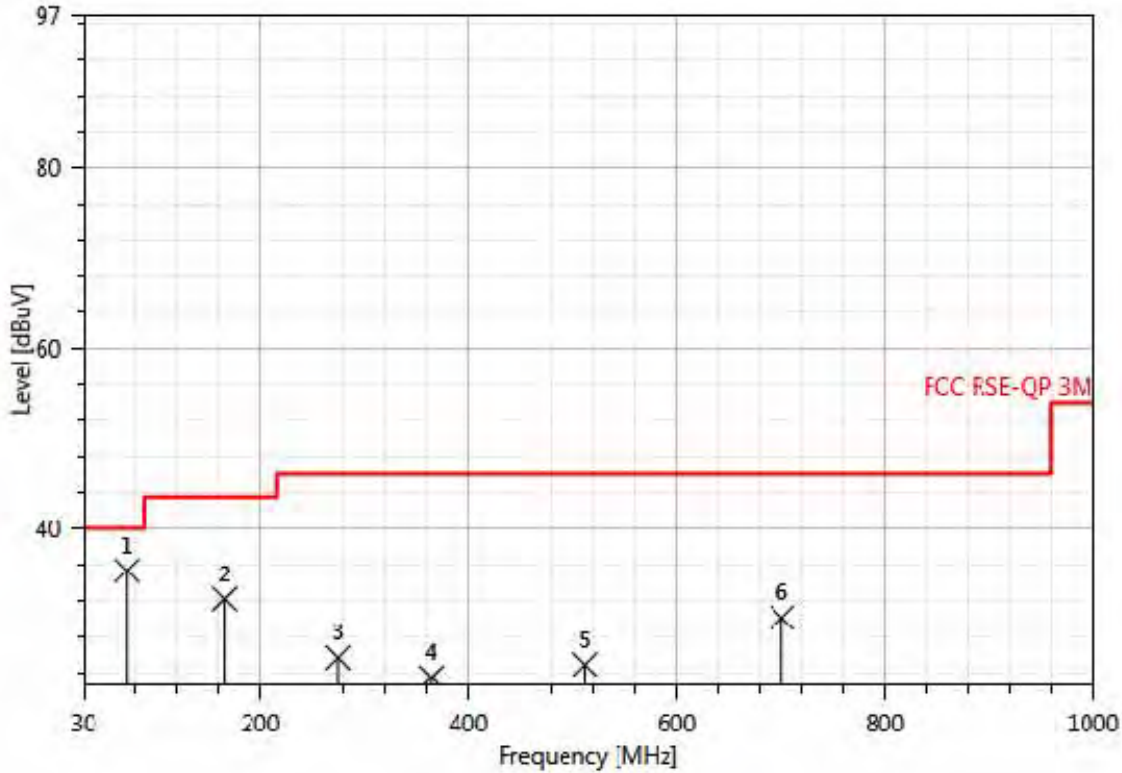
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Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	35.33	45.95	-10.62	40.00	-4.67
165.80	S	Peak	32.20	39.59	-7.39	43.50	-11.30
274.44	S	Peak	25.69	32.36	-6.67	46.00	-20.31
364.65	S	Peak	23.49	28.17	-4.68	46.00	-22.51
512.09	S	Peak	24.91	26.89	-1.98	46.00	-21.09
701.24	S	Peak	30.12	28.69	1.43	46.00	-15.88

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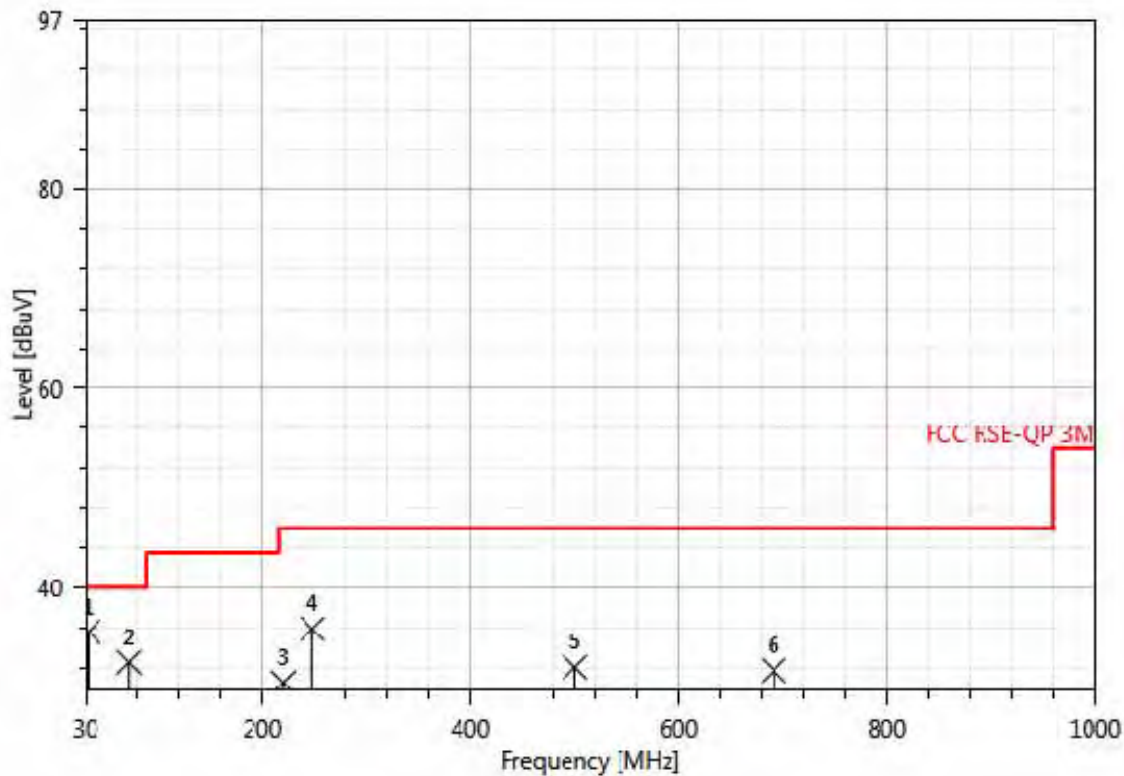
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### 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
32.91	S	Peak	35.57	44.64	-9.07	40.00	-4.43
71.71	S	Peak	32.53	43.14	-10.62	40.00	-7.47
220.12	S	Peak	30.48	39.73	-9.24	46.00	-15.52
248.25	S	Peak	35.88	43.87	-7.98	46.00	-10.12
500.45	S	Peak	32.04	34.73	-2.69	46.00	-13.96
691.54	S	Peak	31.71	30.25	1.47	46.00	-14.29

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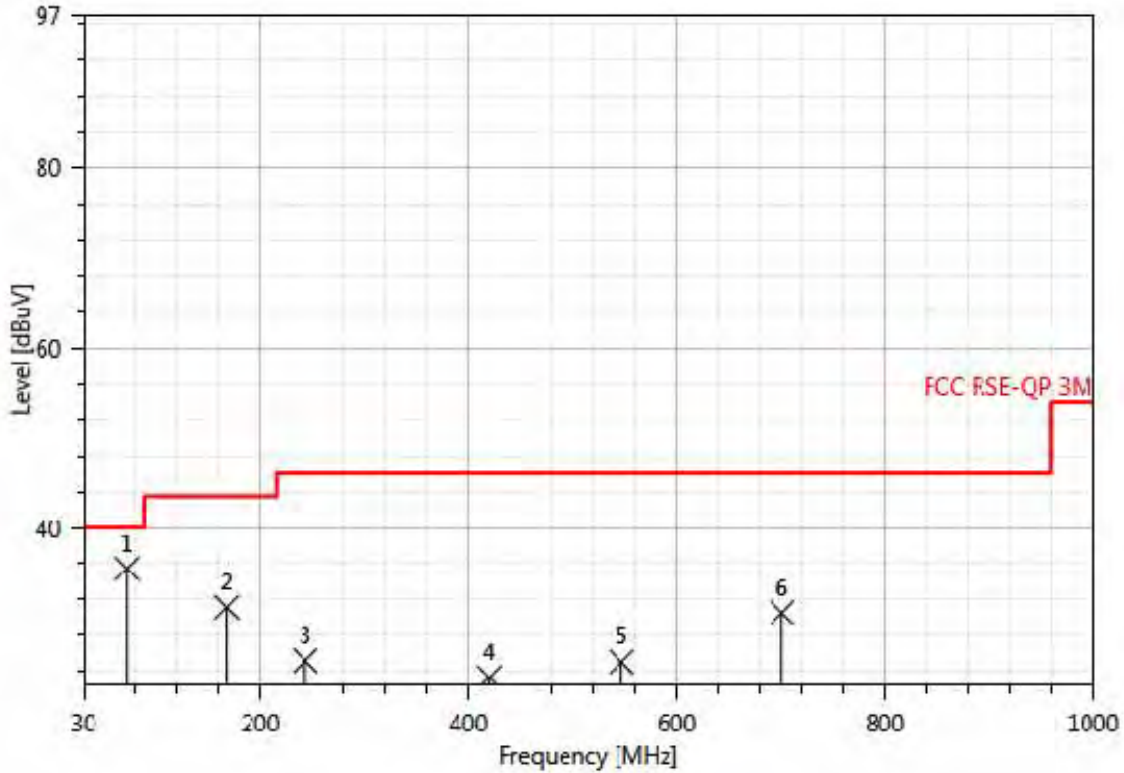
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Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	35.47	46.08	-10.62	40.00	-4.53
167.74	S	Peak	31.19	38.66	-7.46	43.50	-12.31
243.40	S	Peak	25.26	33.29	-8.03	46.00	-20.74
419.94	S	Peak	23.38	26.77	-3.39	46.00	-22.62
547.01	S	Peak	25.11	26.78	-1.67	46.00	-20.89
701.24	S	Peak	30.57	29.14	1.43	46.00	-15.43

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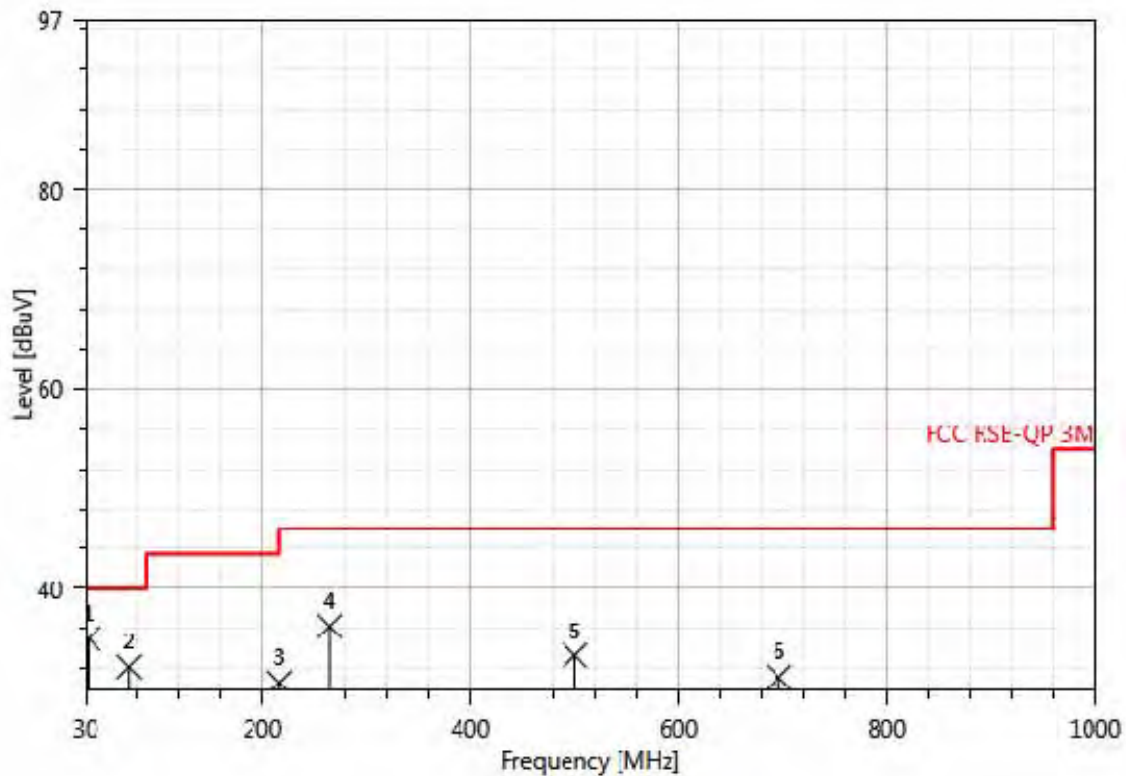
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBµV/m	Spectrum FS dBµV/m	Factor dB	Limit @3m dBuV/m	Margin dB
32.91	S	Peak	35.01	44.09	-9.07	40.00	-4.99
71.71	S	Peak	32.19	42.80	-10.62	40.00	-7.81
216.24	S	Peak	30.61	40.03	-9.43	46.00	-15.39
264.74	S	Peak	36.26	43.31	-7.06	46.00	-9.74
500.45	S	Peak	33.33	36.01	-2.69	46.00	-12.67
696.39	S	Peak	31.16	29.80	1.36	46.00	-14.84

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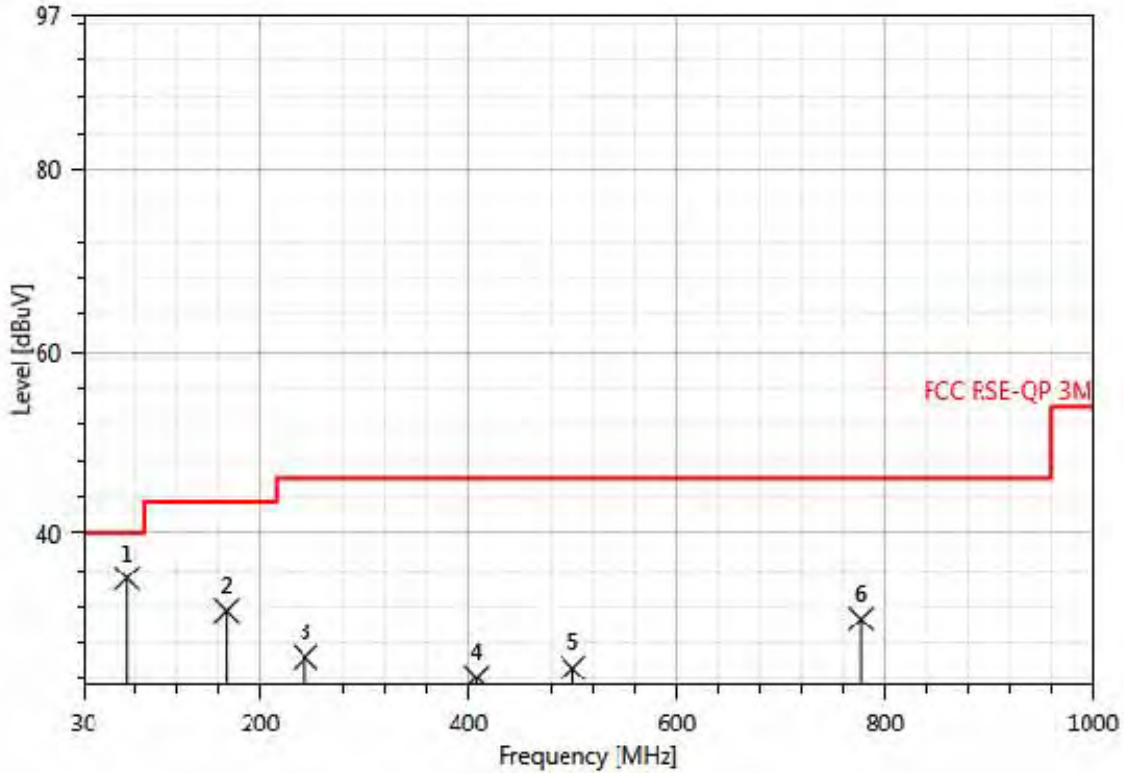
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Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	35.07	45.68	-10.62	40.00	-4.93
167.74	S	Peak	31.54	39.00	-7.46	43.50	-11.96
243.40	S	Peak	26.42	34.45	-8.03	46.00	-19.58
408.30	S	Peak	24.19	27.72	-3.53	46.00	-21.81
500.45	S	Peak	25.22	27.90	-2.69	46.00	-20.78
776.90	S	Peak	30.62	28.07	2.54	46.00	-15.38

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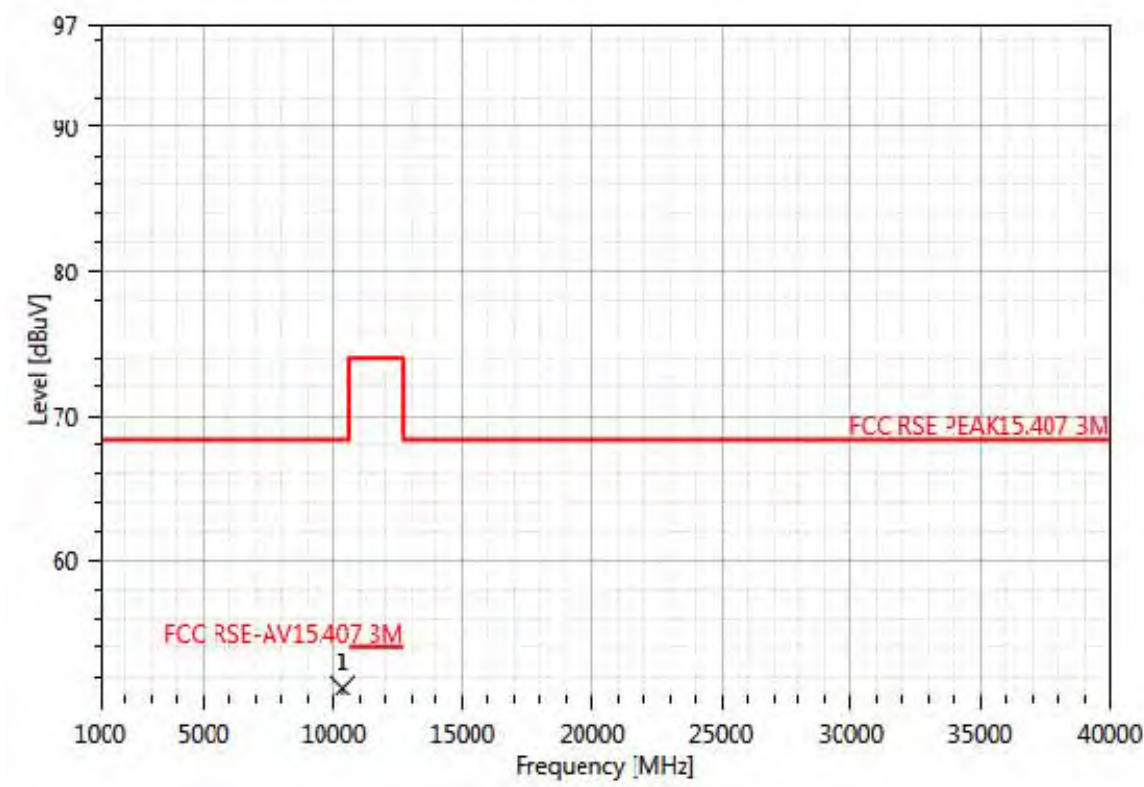
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**Above 1GHz Worst-Case Data:**

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

Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



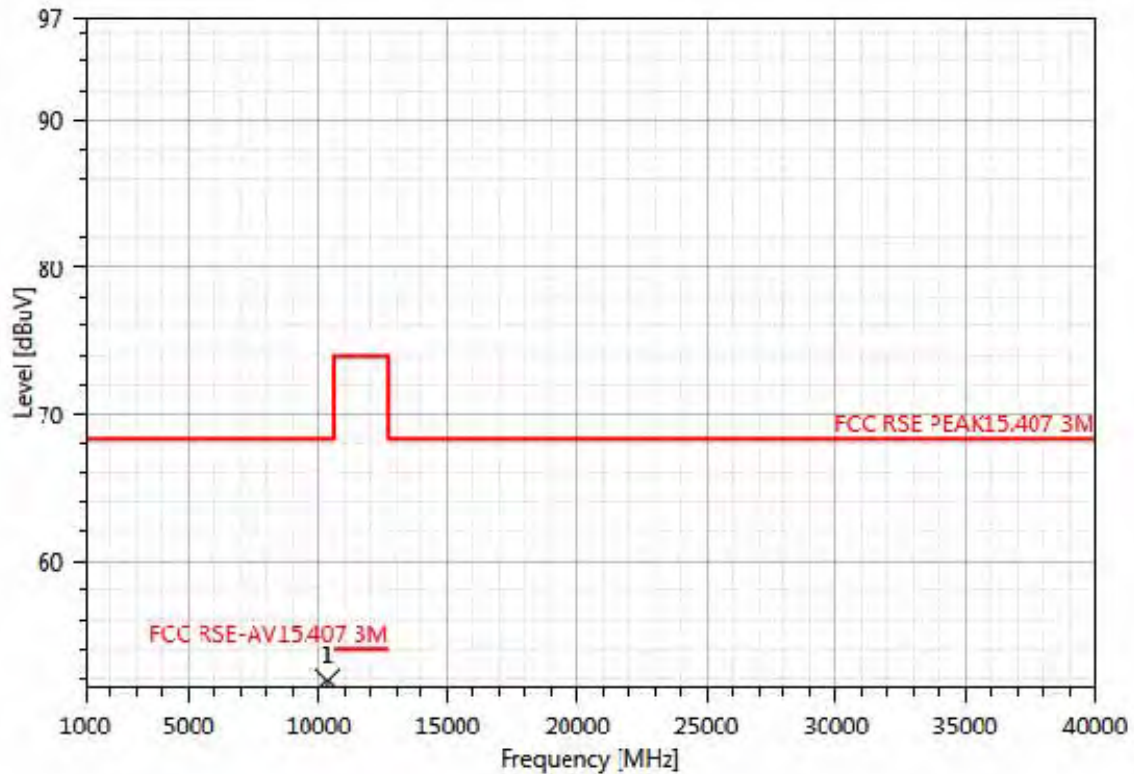
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	51.23	32.94	18.29	68.30	-17.07

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Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10360.00	H	Peak	51.88	33.59	18.29	68.30	-16.42

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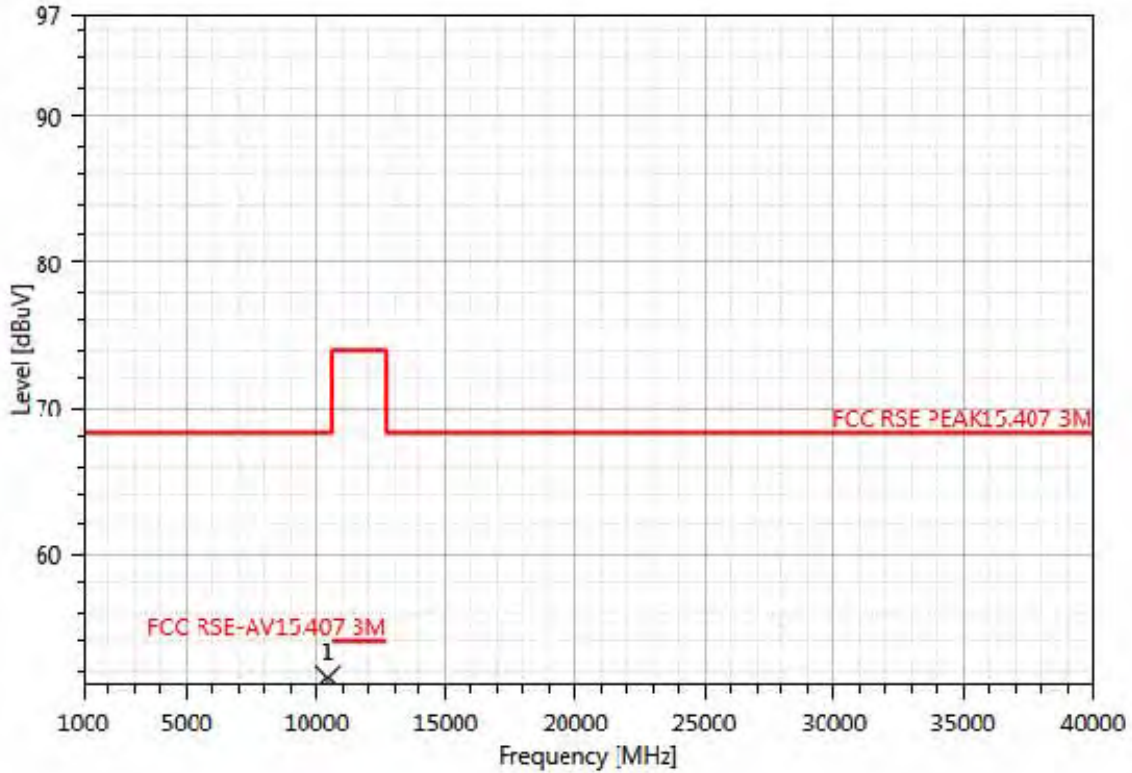
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Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10440.00	H	Peak	51.53	32.84	18.68	68.30	-16.77

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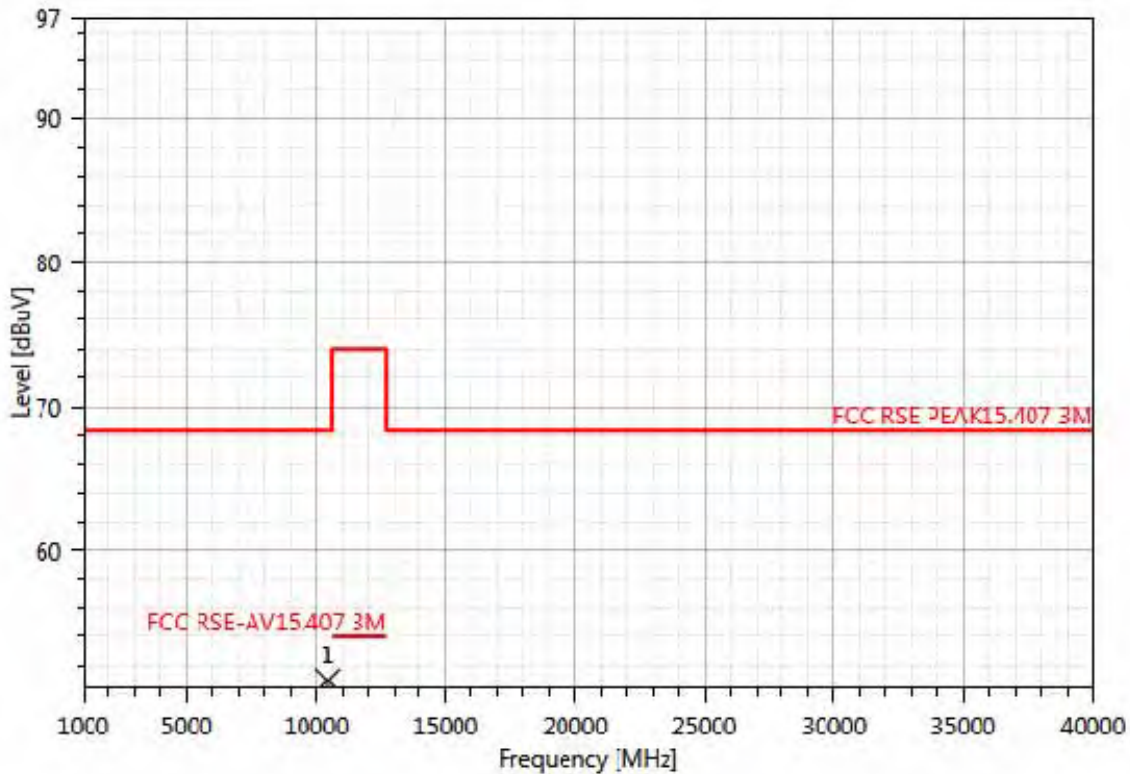
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Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10440.00	H	Peak	50.98	32.30	18.68	68.30	-17.32

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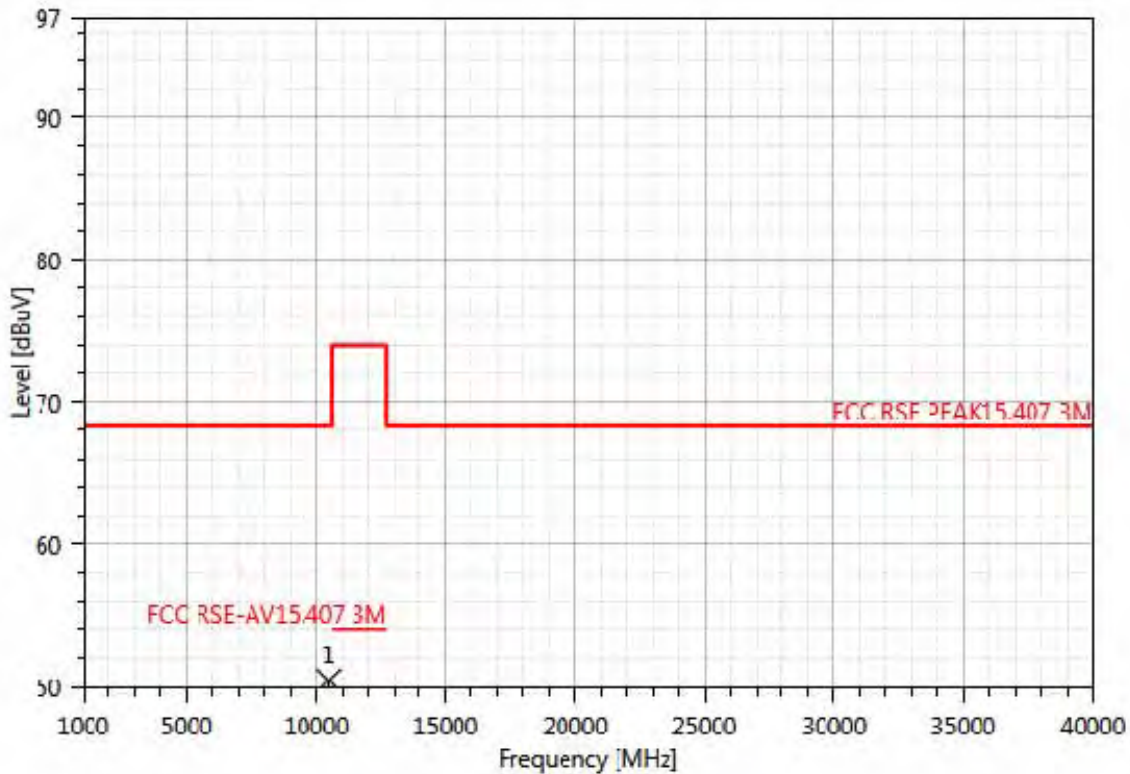
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Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10480.00	H	Peak	50.44	32.14	18.29	68.30	-17.86

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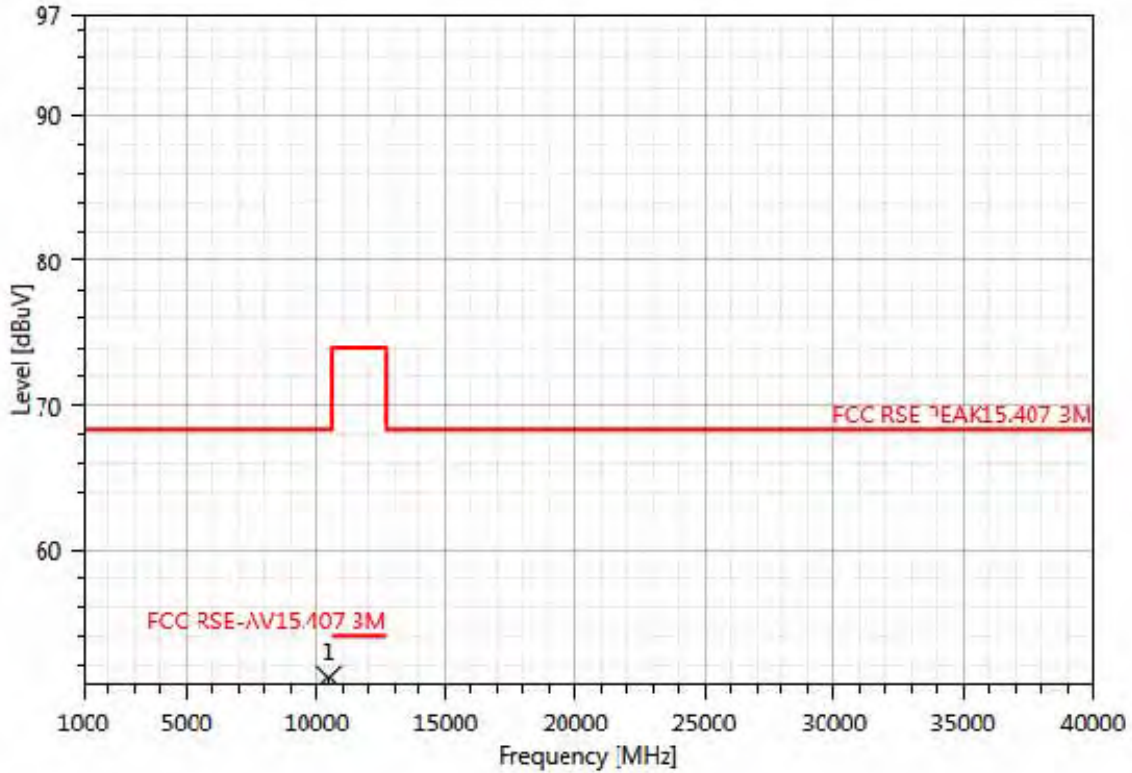
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Operation Mode :	802.11aB1	Test Date :	02/13/2017
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
10480.00	H	Peak	51.19	32.89	18.29	68.30	-17.11

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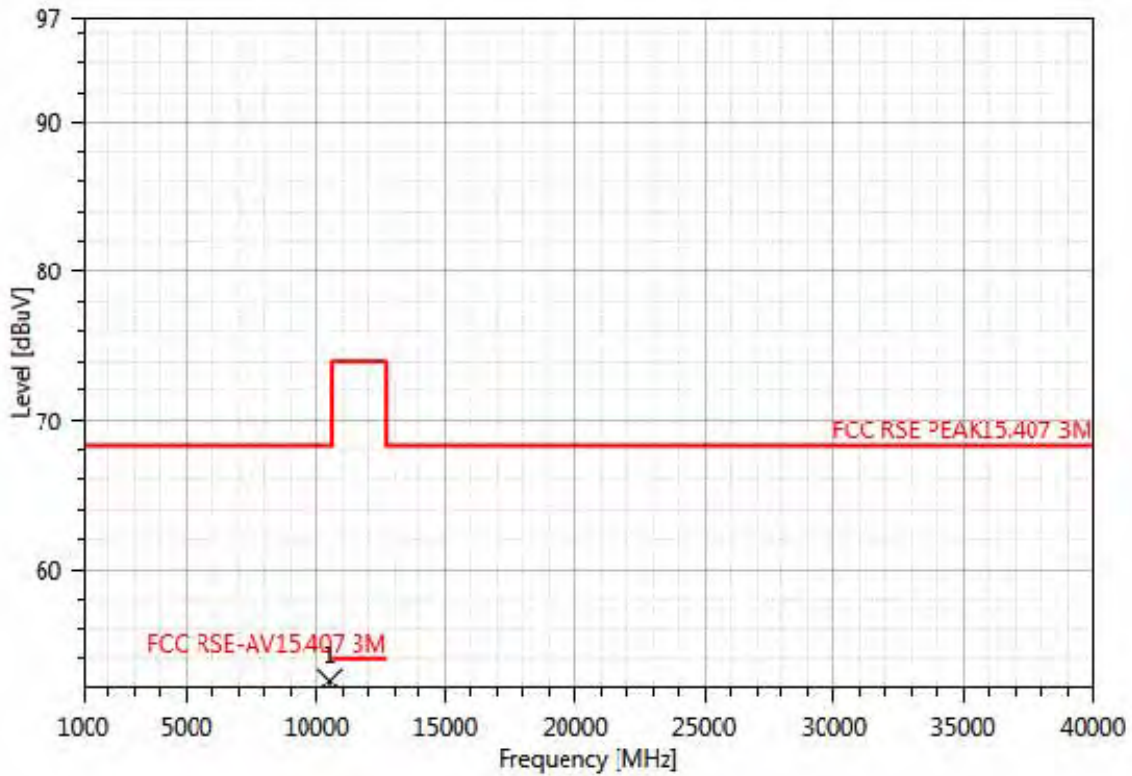
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

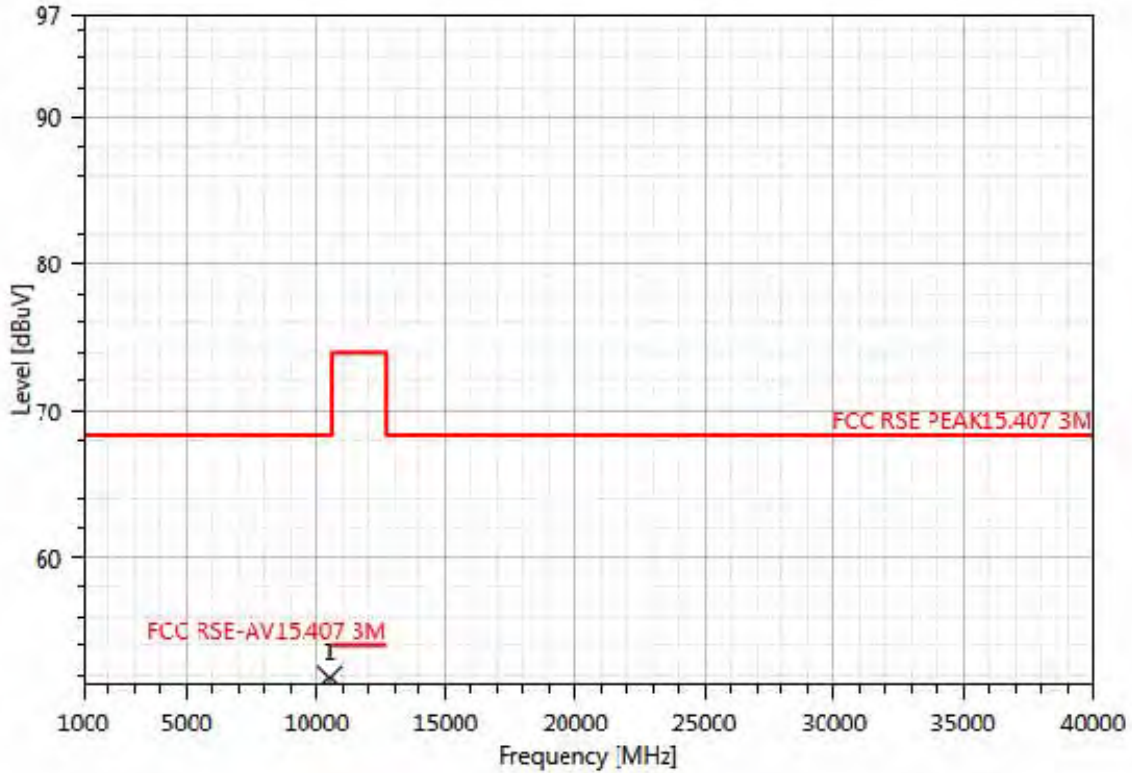


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.53	33.16	19.37	68.30	-15.77

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Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10520.00	H	Peak	51.81	32.44	19.37	68.30	-16.49

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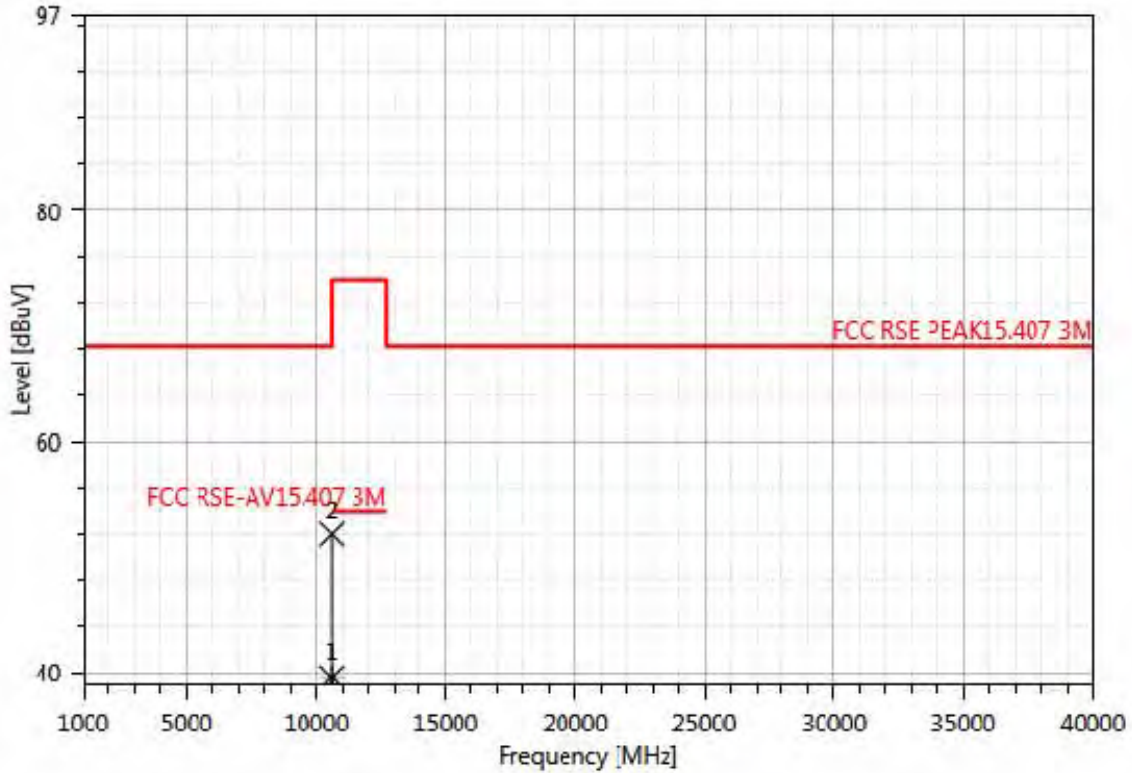
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Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

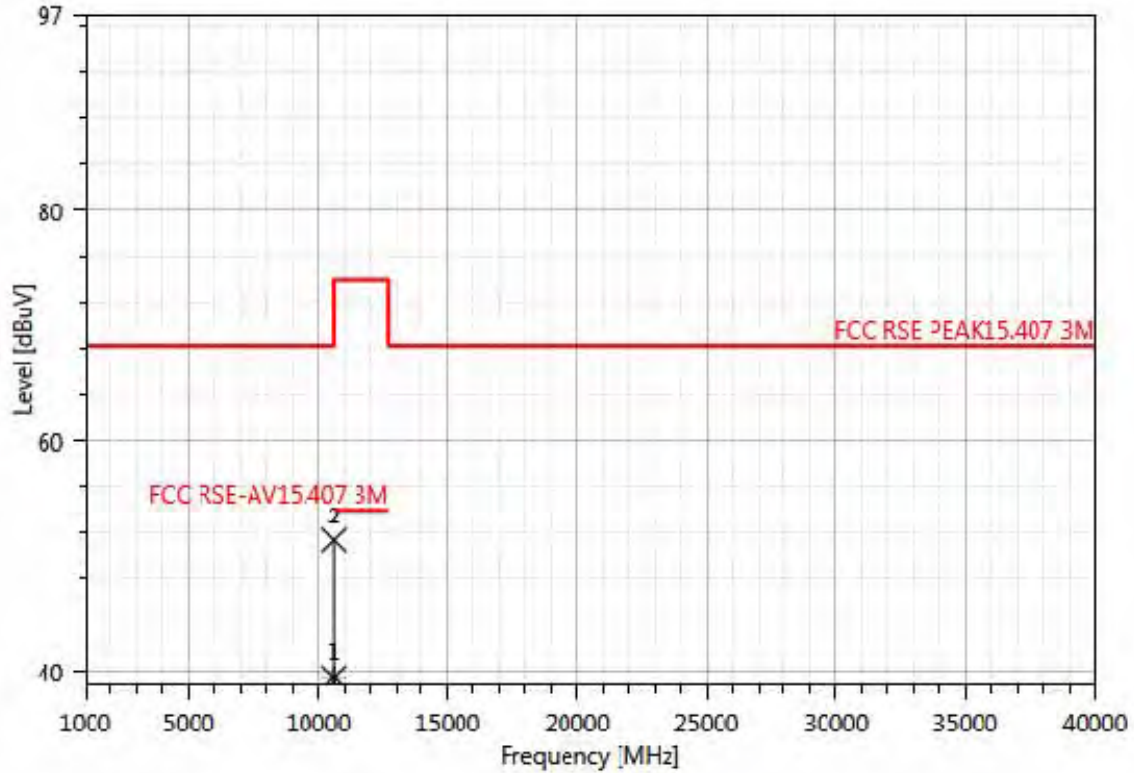


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	39.56	20.65	18.91	54.00	-14.44
10600.00	H	Peak	51.94	33.04	18.91	74.00	-22.06

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Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10600.00	H	Average	39.52	20.61	18.91	54.00	-14.48
10600.00	H	Peak	51.42	32.51	18.91	74.00	-22.58

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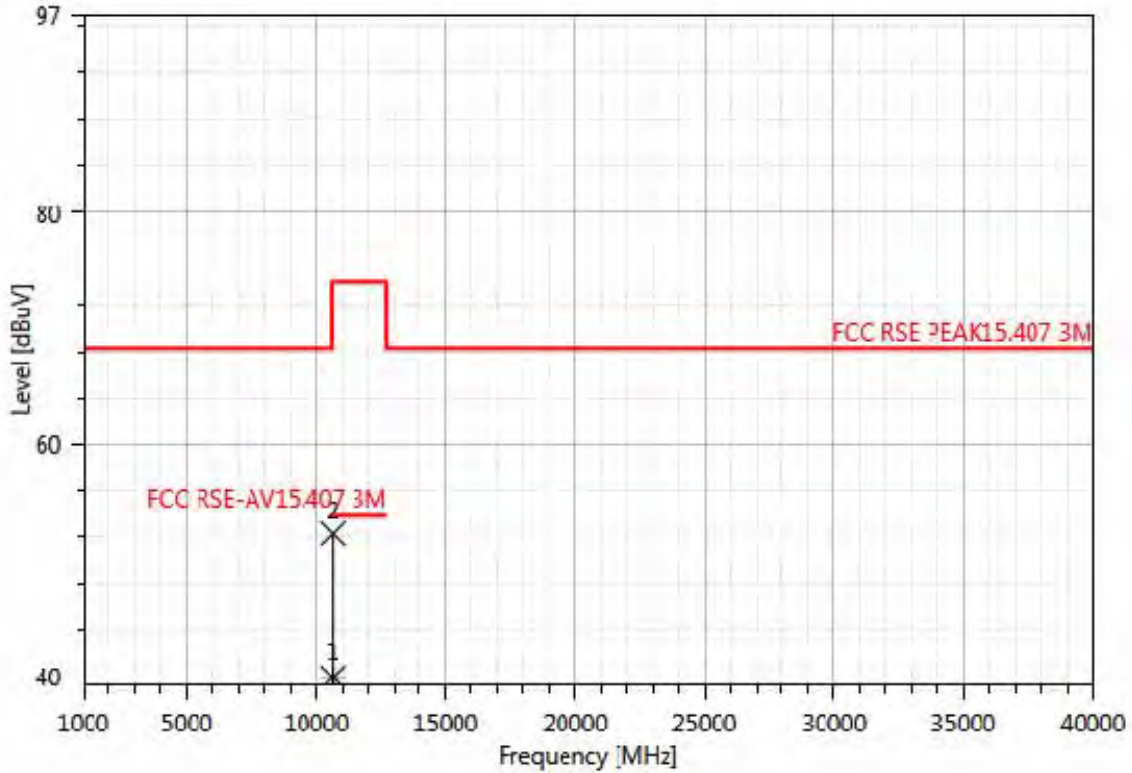
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Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10640.00	H	Average	39.96	20.78	19.18	54.00	-14.04
10640.00	H	Peak	52.30	33.12	19.18	74.00	-21.70

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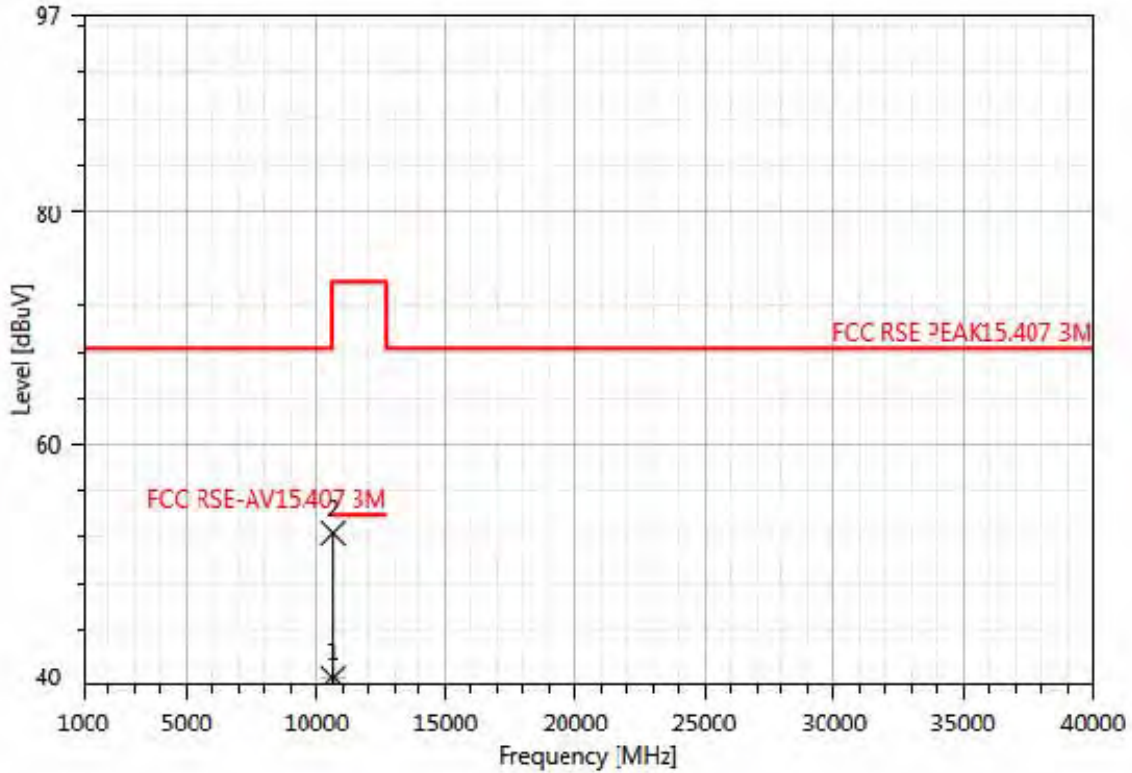
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Operation Mode :	802.11aB2	Test Date :	02/13/2017
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10640.00	H	Average	39.95	20.77	19.18	54.00	-14.05
10640.00	H	Peak	52.33	33.15	19.18	74.00	-21.67

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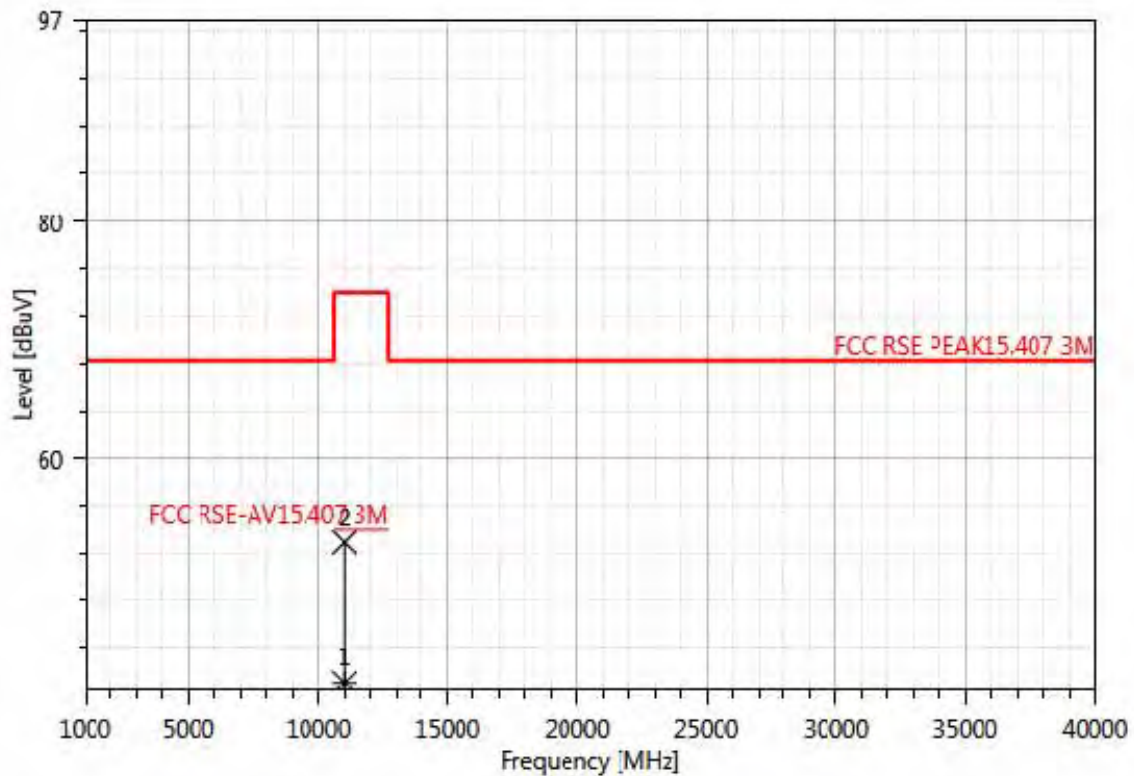
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBµV/m	Spectrum FS dBµV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11000.00	H	Average	41.10	20.93	20.17	54.00	-12.90
11000.00	H	Peak	52.90	32.73	20.17	74.00	-21.10

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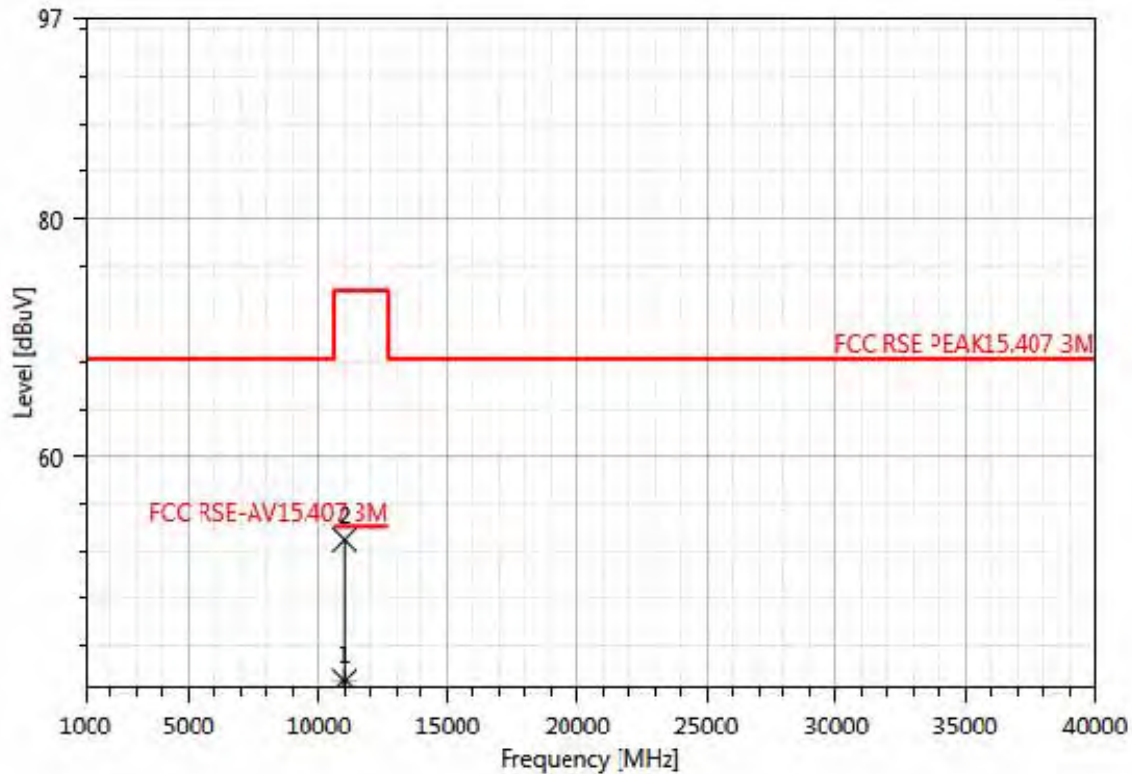
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Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11000.00	H	Average	41.11	20.94	20.17	54.00	-12.89
11000.00	H	Peak	52.94	32.78	20.17	74.00	-21.06

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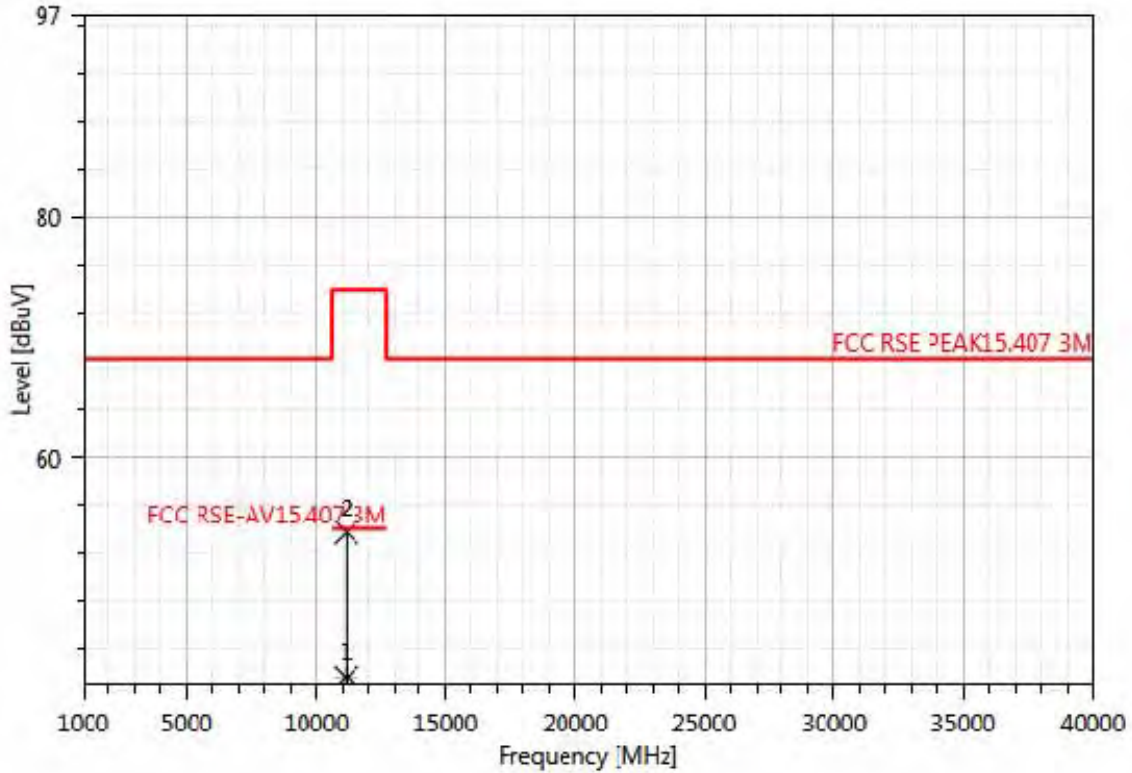
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Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11160.00	H	Average	41.60	21.15	20.45	54.00	-12.40
11160.00	H	Peak	53.71	33.26	20.45	74.00	-20.29

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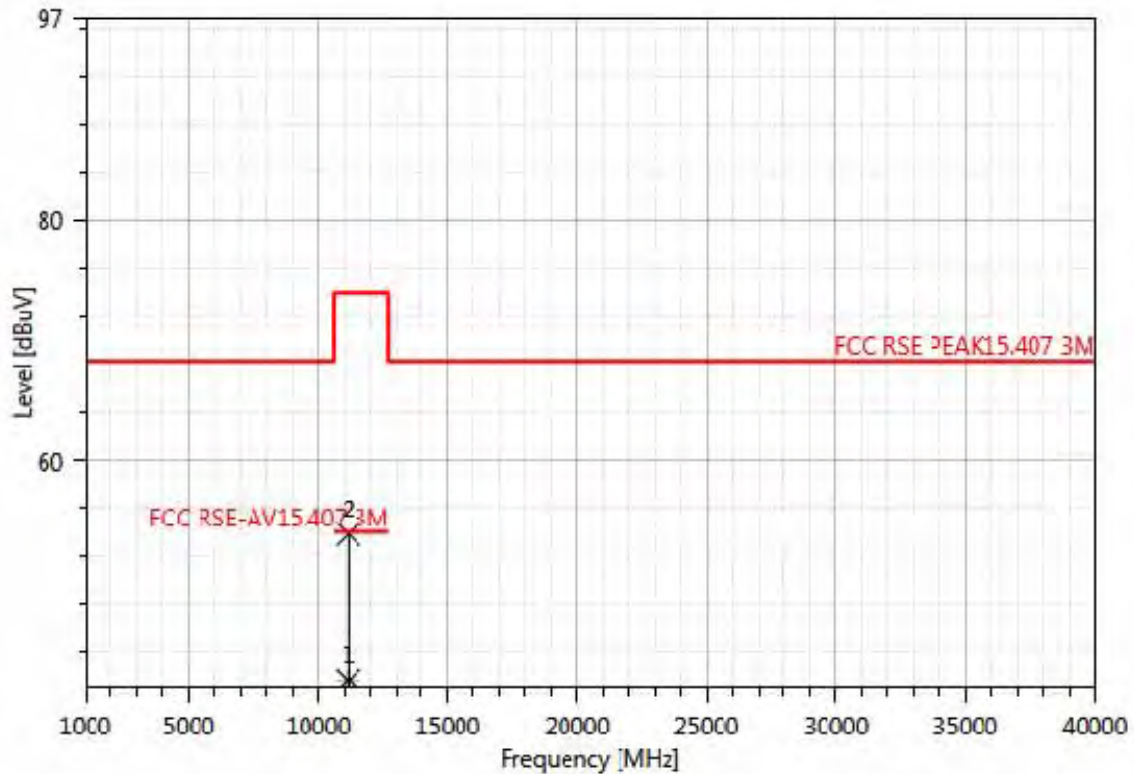
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Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11160.00	H	Average	41.59	21.14	20.45	54.00	-12.41
11160.00	H	Peak	53.84	33.39	20.45	74.00	-20.16

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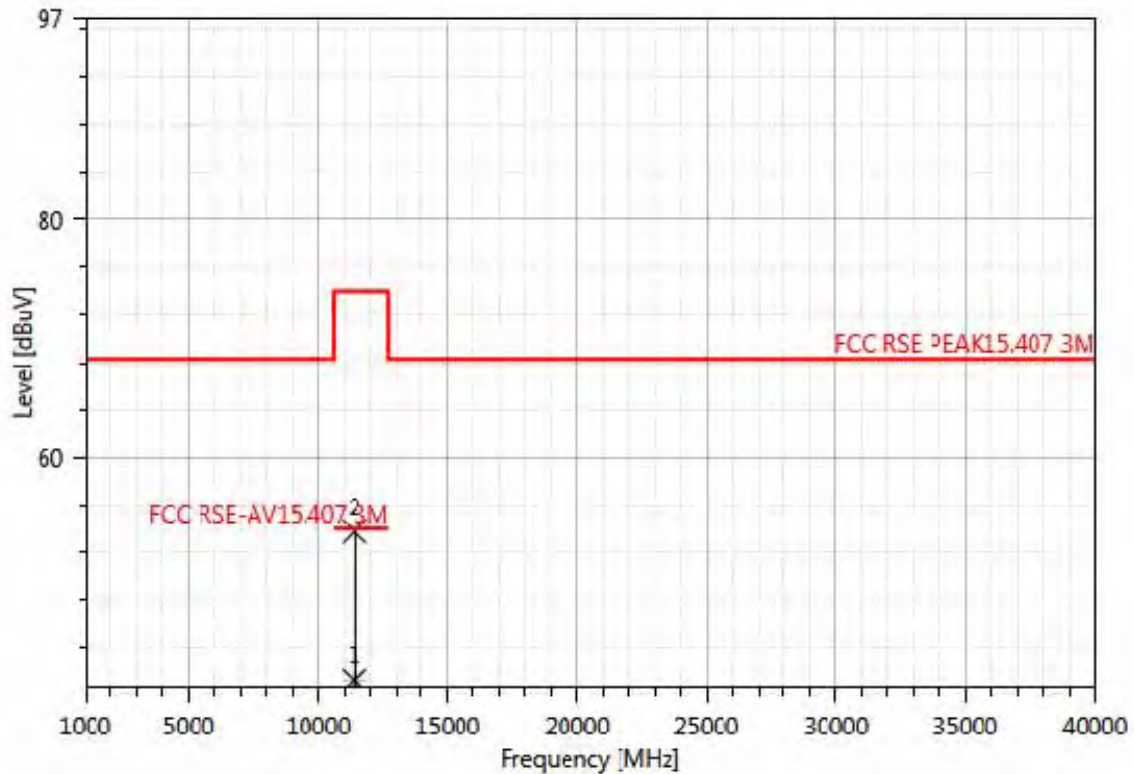
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Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11400.00	H	Average	41.25	20.69	20.56	54.00	-12.75
11400.00	H	Peak	53.80	33.24	20.56	74.00	-20.20

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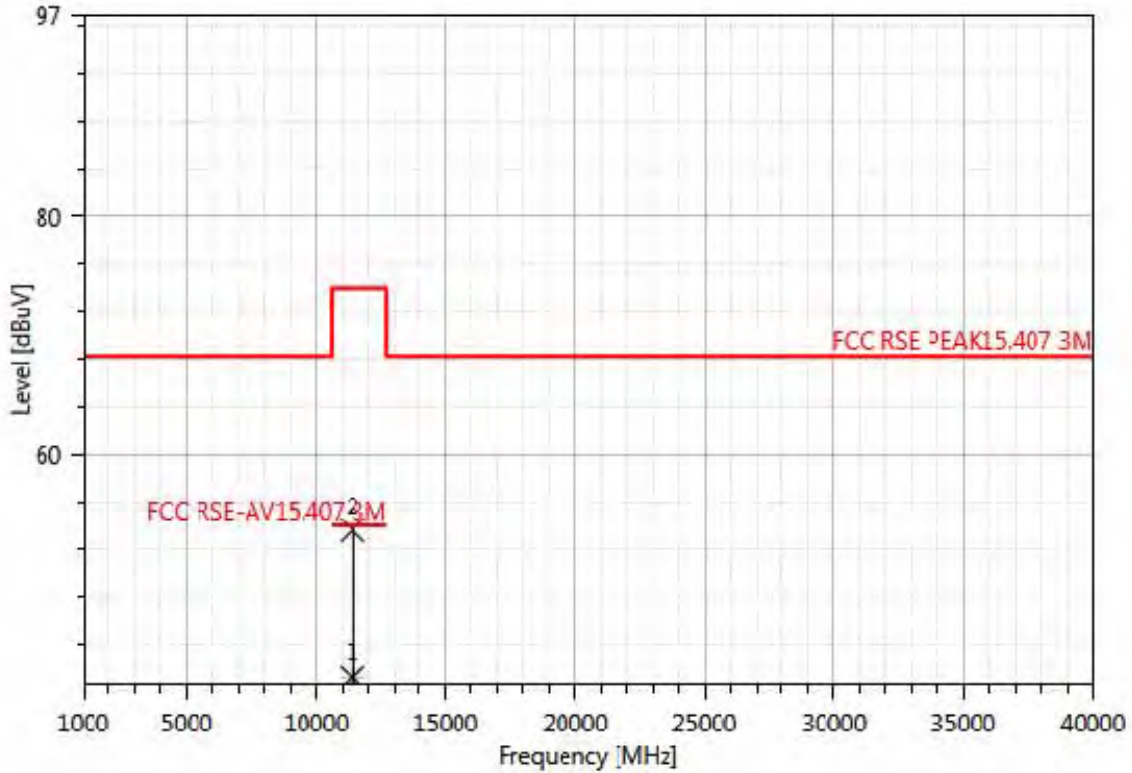
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Operation Mode :	802.11aB3	Test Date :	02/13/2017
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11400.00	H	Average	41.23	20.67	20.56	54.00	-12.77
11400.00	H	Peak	53.63	33.07	20.56	74.00	-20.37

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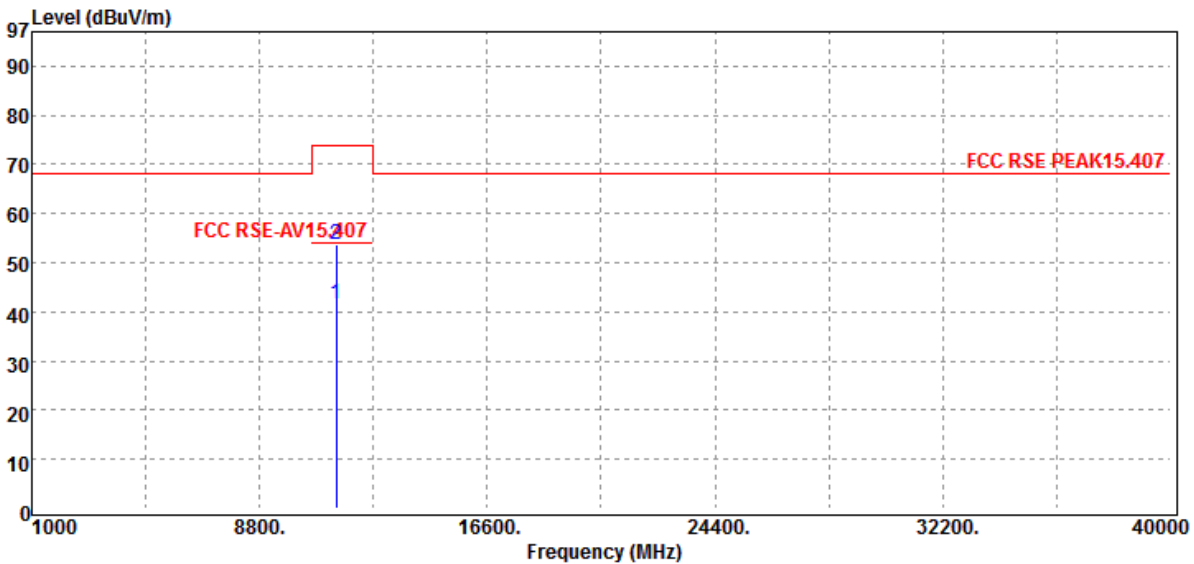
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Operation Band	:802.11aB3	Test Date	:2017-08-17
Fundamental Frequency	:5720 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



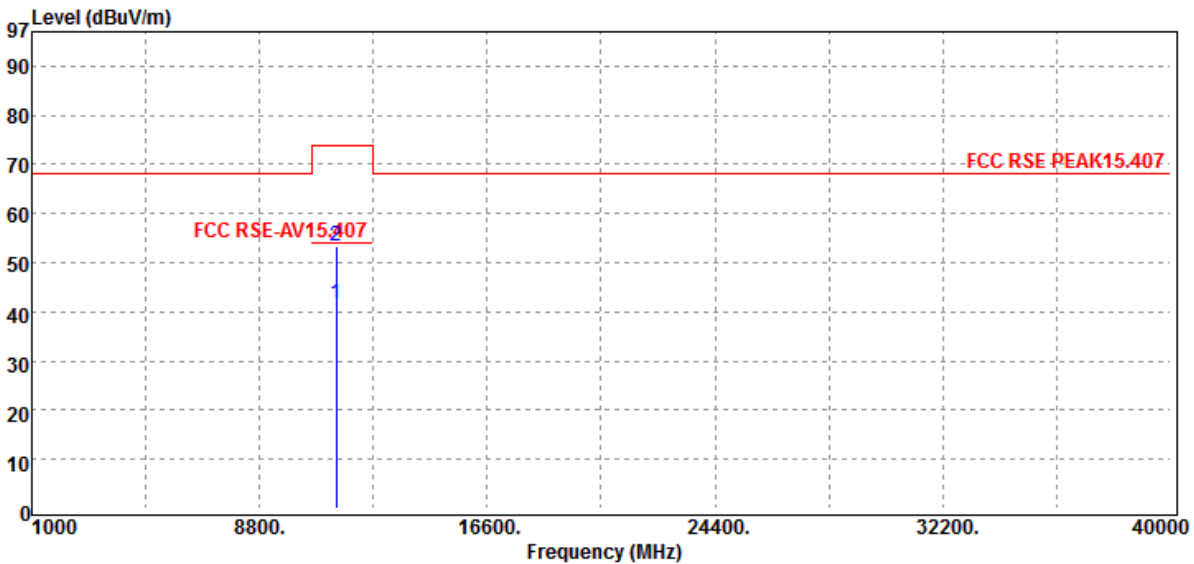
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
11440.00	H	Average	21.11	20.44	41.55	54.00	-12.45
11440.00	H	Peak	33.20	20.44	53.64	74.00	-20.36

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Operation Band	:802.11aB3	Test Date	:2017-08-17
Fundamental Frequency	:5720 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11440.00	H	Average	21.16	20.44	41.60	54.00	-12.40
11440.00	H	Peak	33.04	20.44	53.48	74.00	-20.52

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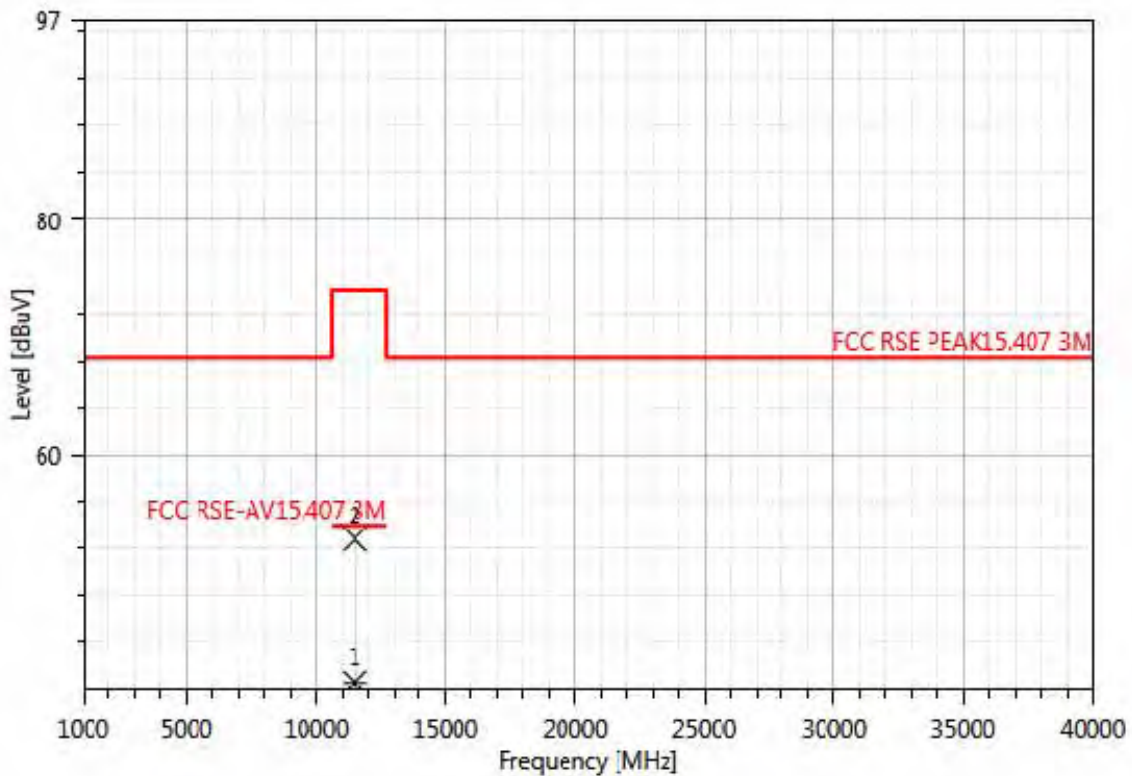
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

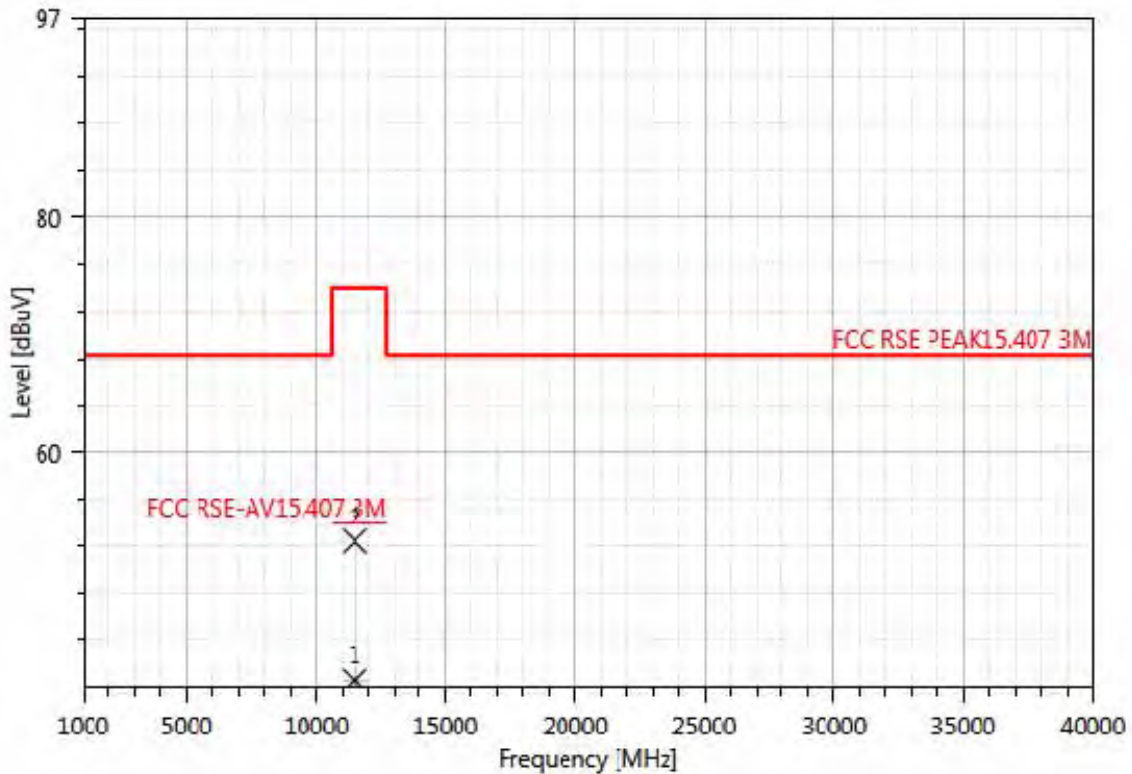


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	40.63	20.21	20.42	54.00	-13.37
11490.00	H	Peak	52.83	32.41	20.42	74.00	-21.17

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Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11490.00	H	Average	40.60	20.18	20.42	54.00	-13.40
11490.00	H	Peak	52.45	32.03	20.42	74.00	-21.55

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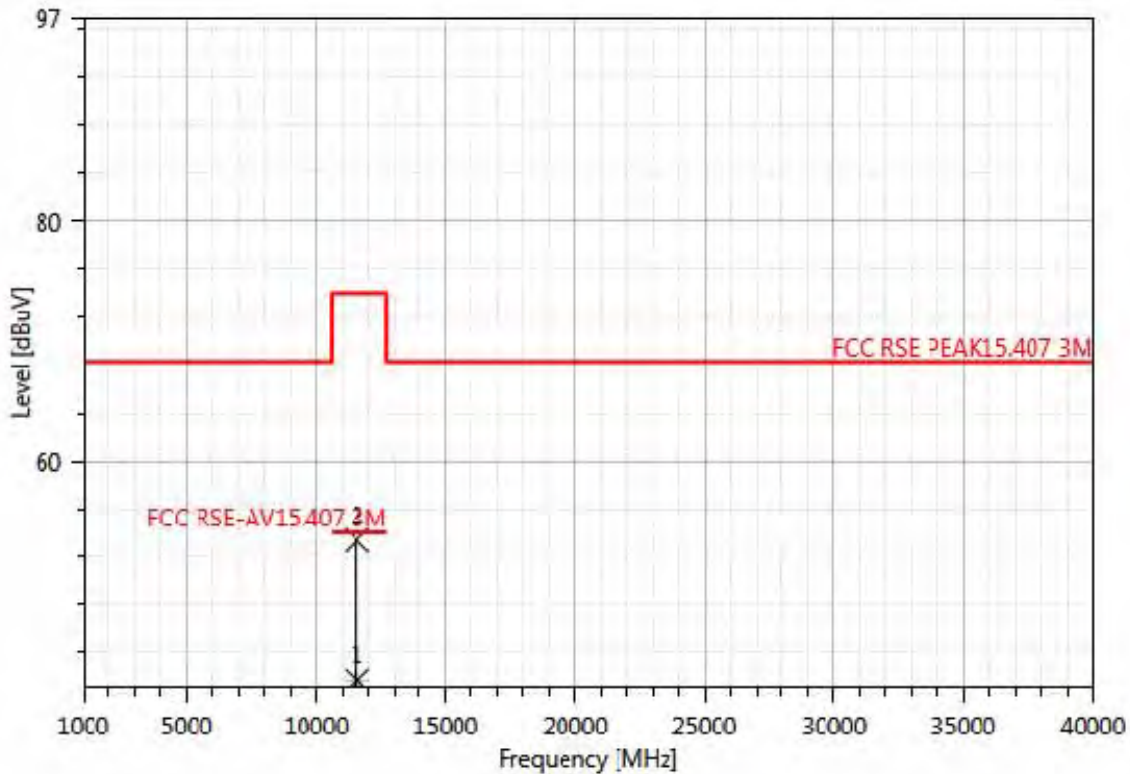
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Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m		dBuV/m	
11570.00	H	Average	41.67	21.08	20.59	54.00	-12.33
11570.00	H	Peak	53.37	32.79	20.59	74.00	-20.63

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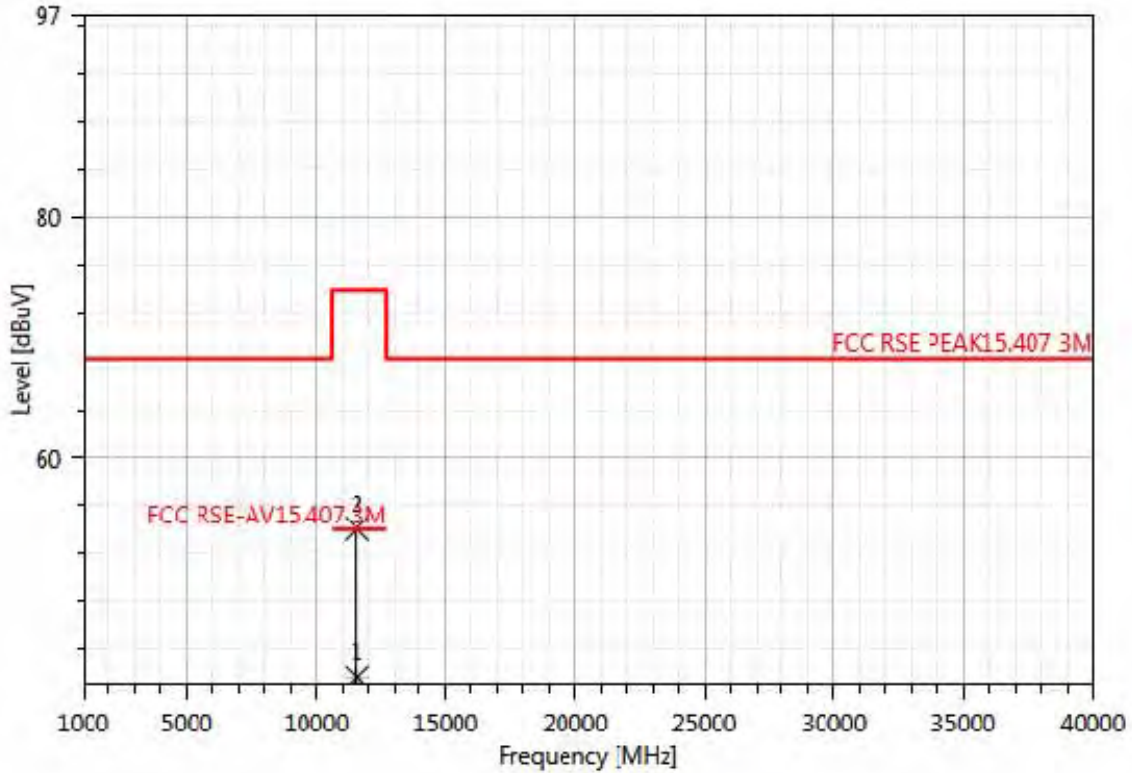
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Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11570.00	H	Average	41.63	21.04	20.59	54.00	-12.37
11570.00	H	Peak	54.05	33.47	20.59	74.00	-19.95

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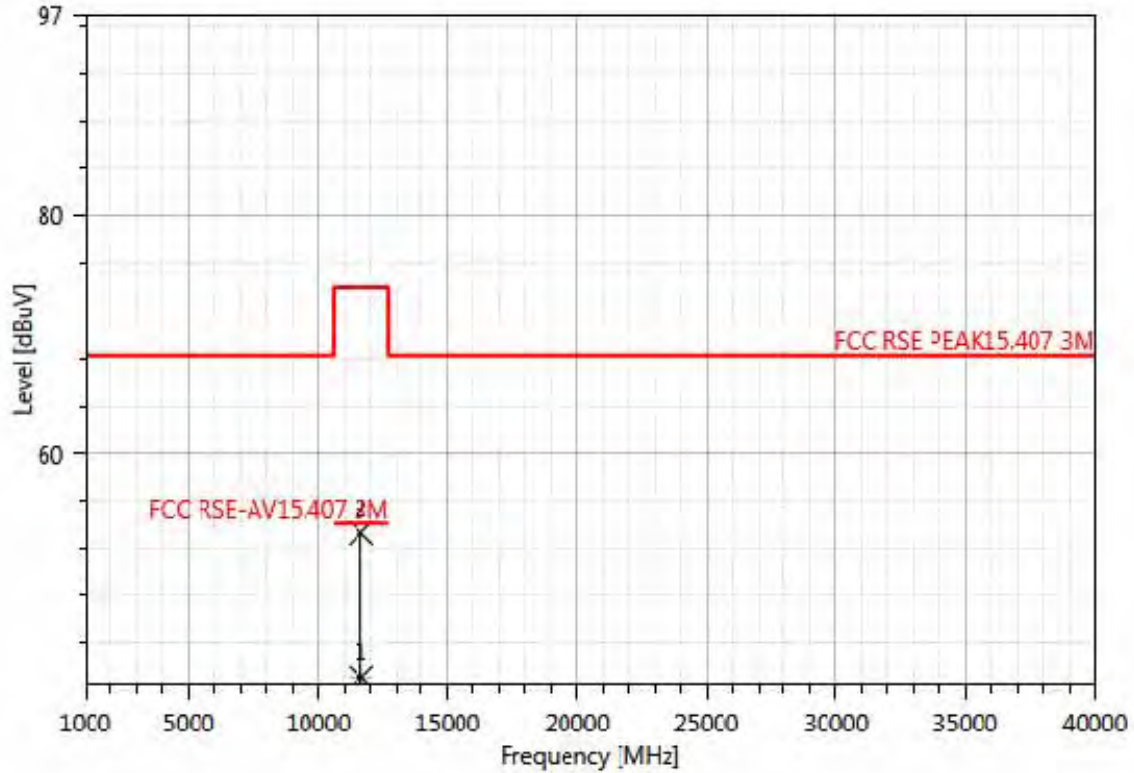
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Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11650.00	H	Average	41.07	20.64	20.43	54.00	-12.93
11650.00	H	Peak	53.25	32.82	20.43	74.00	-20.75

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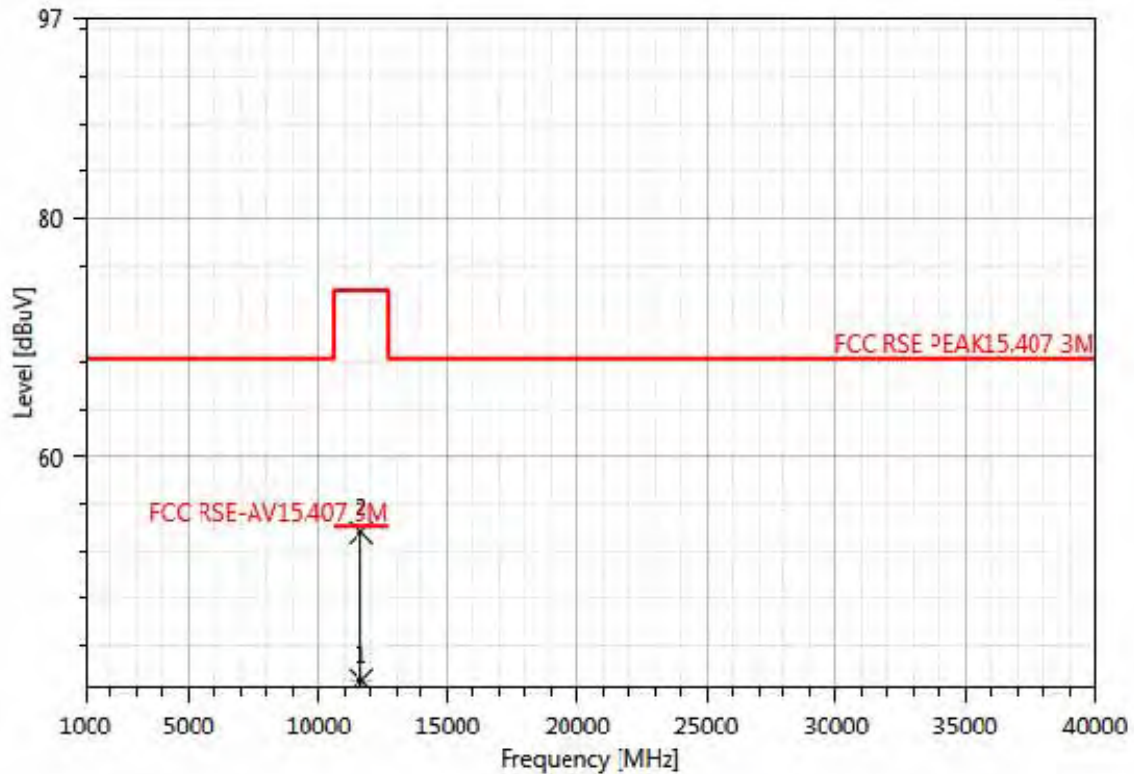
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Operation Mode :	802.11aB4	Test Date :	02/13/2017
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m		dBuV/m	
11650.00	H	Average	41.06	20.63	20.43	54.00	-12.94
11650.00	H	Peak	53.56	33.13	20.43	74.00	-20.44

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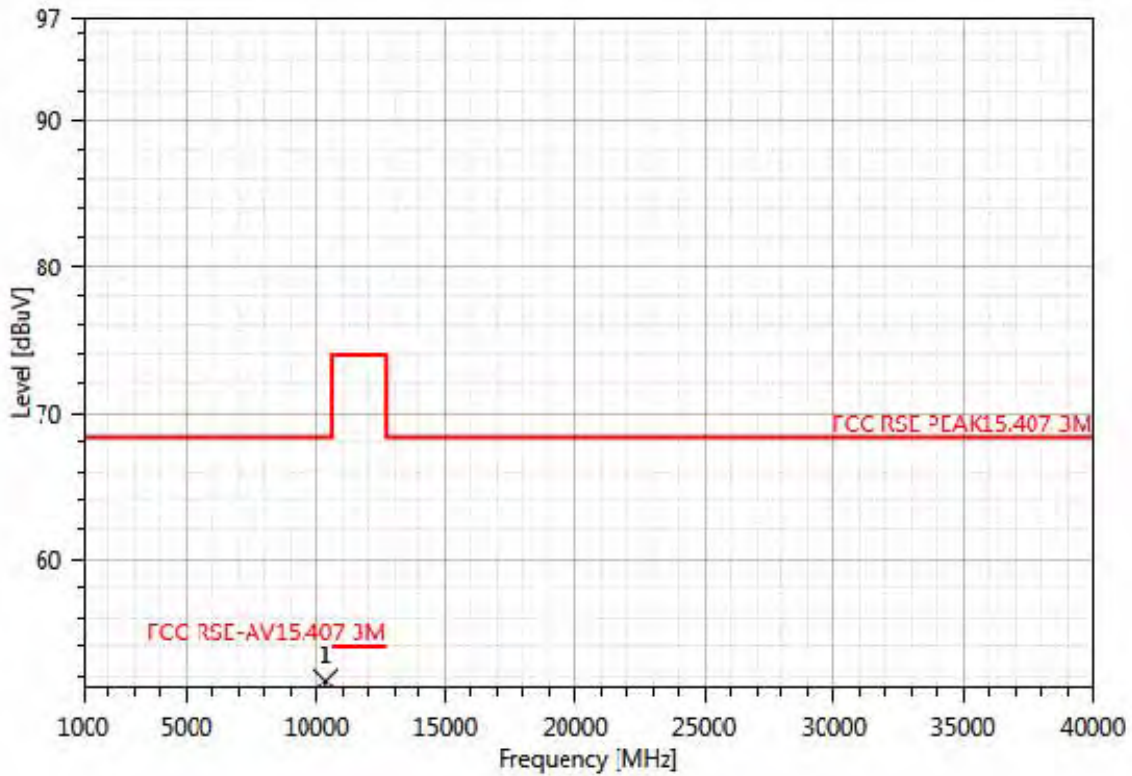
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	02/13/2017
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

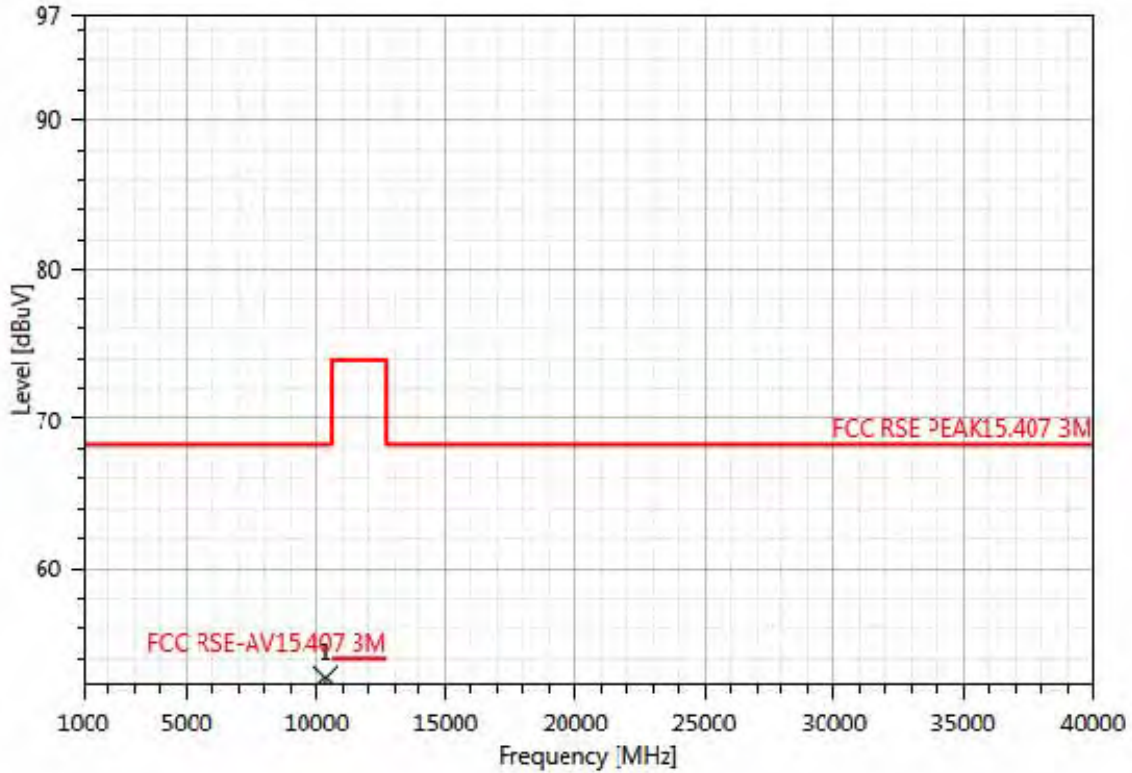


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	51.70	33.41	18.29	68.30	-16.60

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Operation Mode : 802.11n20B1      Test Date : 02/13/2017  
 Fundamental Frequency : 5180 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10360.00	H	Peak	52.74	34.44	18.29	68.30	-15.56

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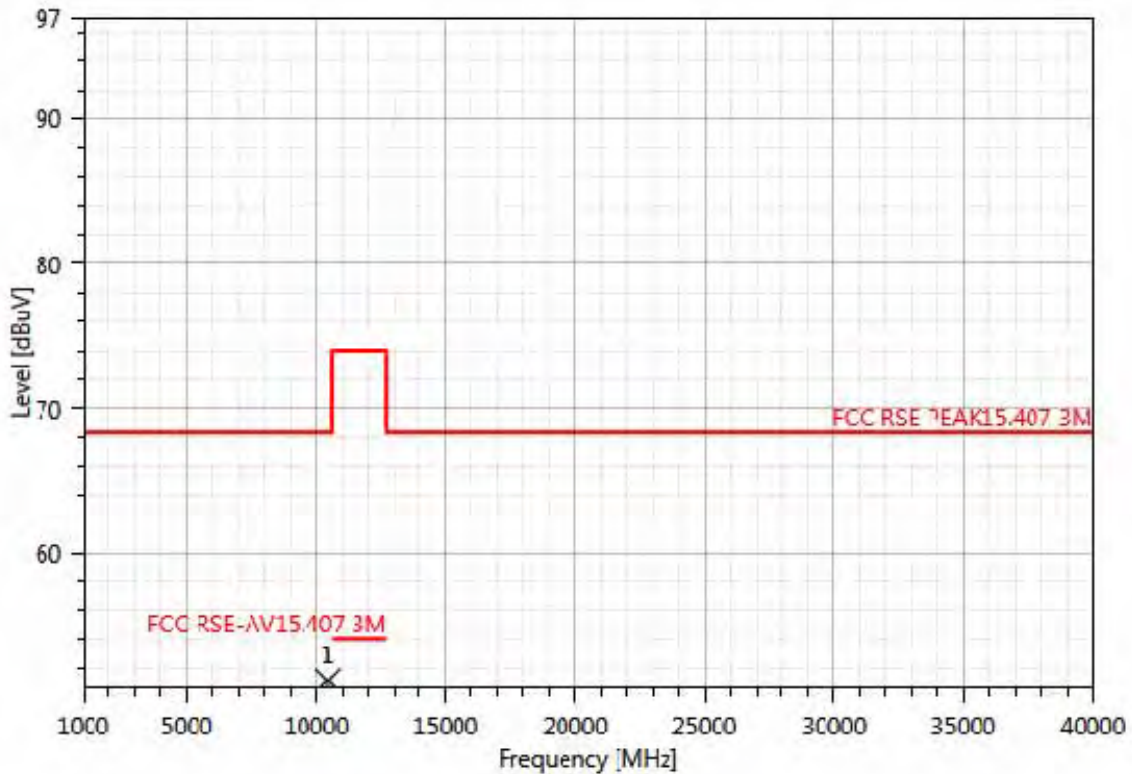
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Operation Mode :	802.11n20B1	Test Date :	02/13/2017
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10440.00	H	Peak	51.18	32.50	18.68	68.30	-17.12

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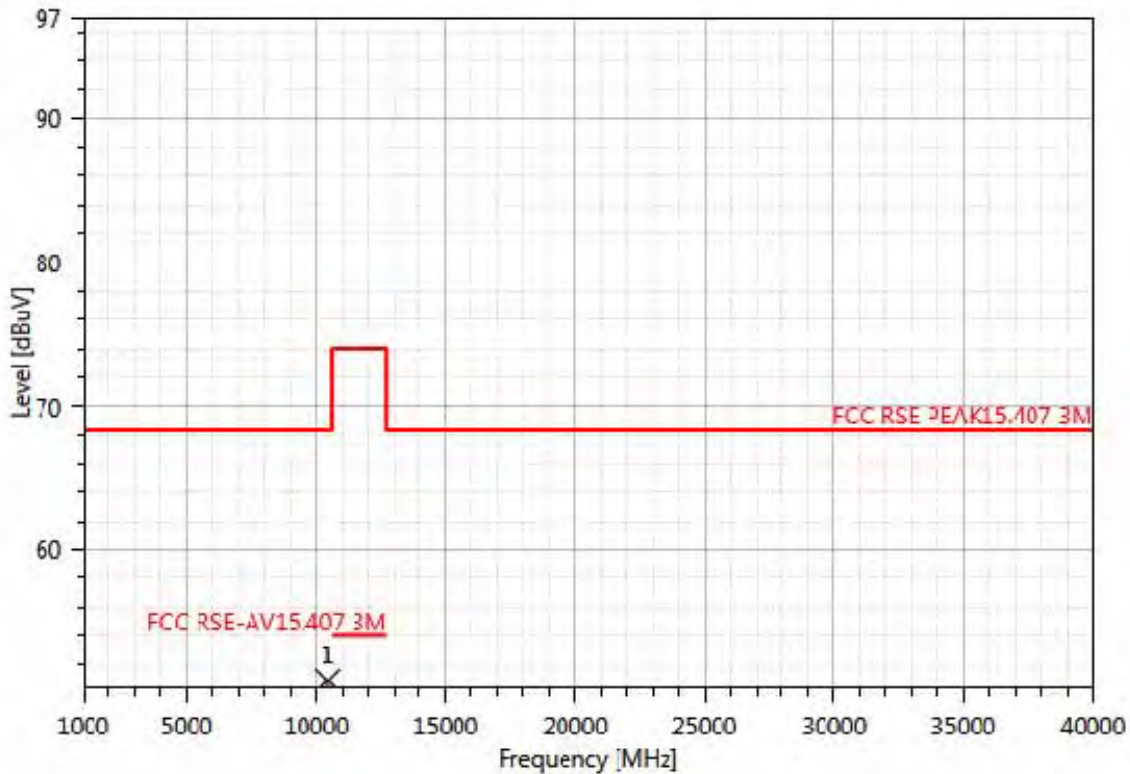
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Operation Mode :	802.11n20B1	Test Date :	02/13/2017
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10440.00	H	Peak	50.91	32.23	18.68	68.30	-17.39

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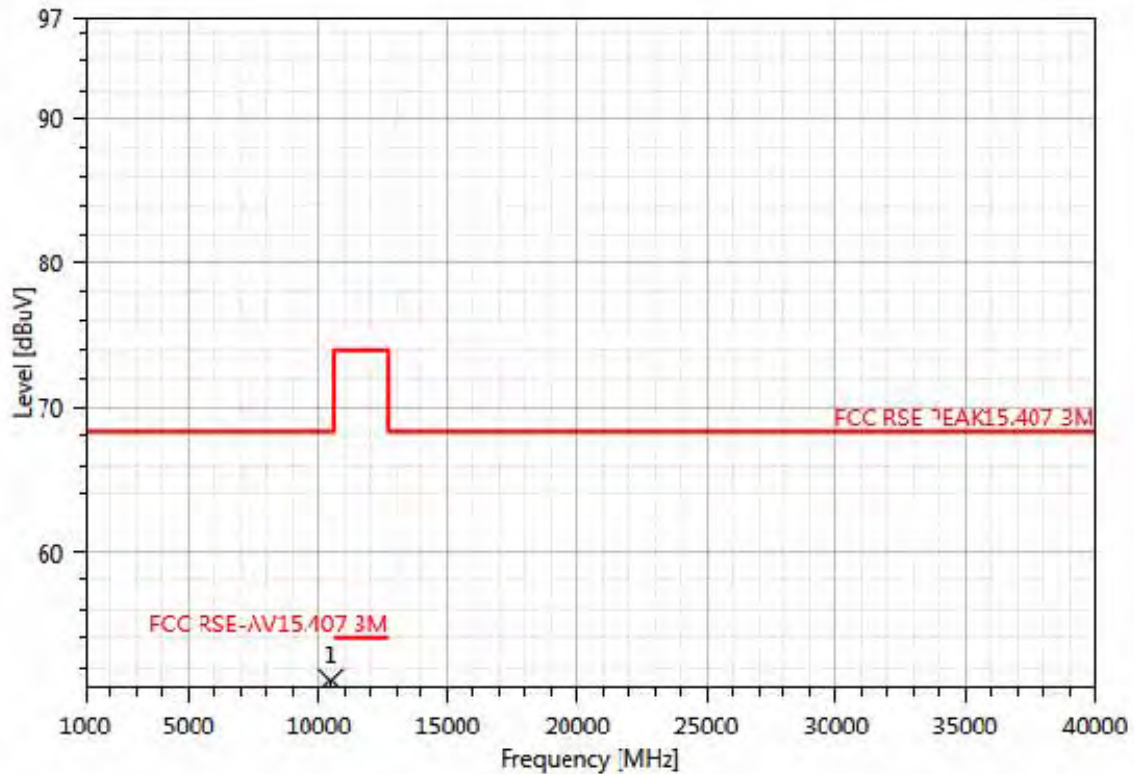
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Operation Mode :	802.11n20B1	Test Date :	02/13/2017
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10480.00	H	Peak	51.09	32.80	18.29	68.30	-17.21

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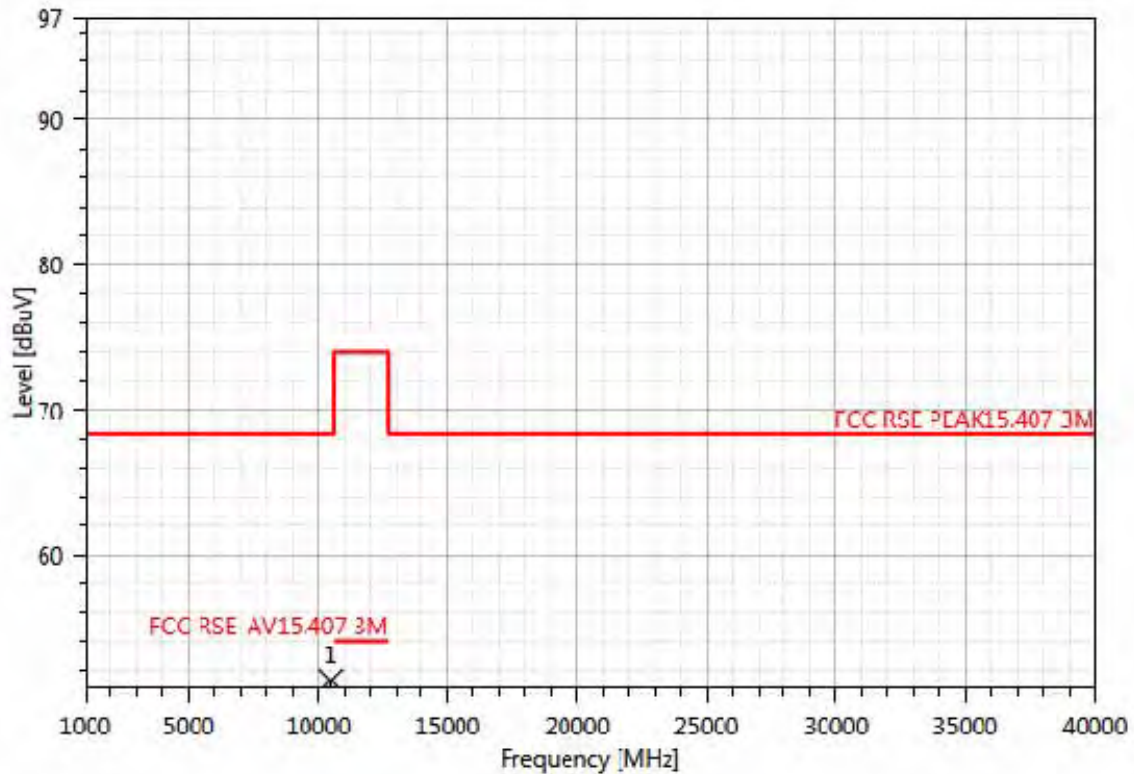
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Operation Mode : 802.11n20B1      Test Date : 02/13/2017  
 Fundamental Frequency : 5240 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10480.00	H	Peak	51.35	33.05	18.29	68.30	-16.95

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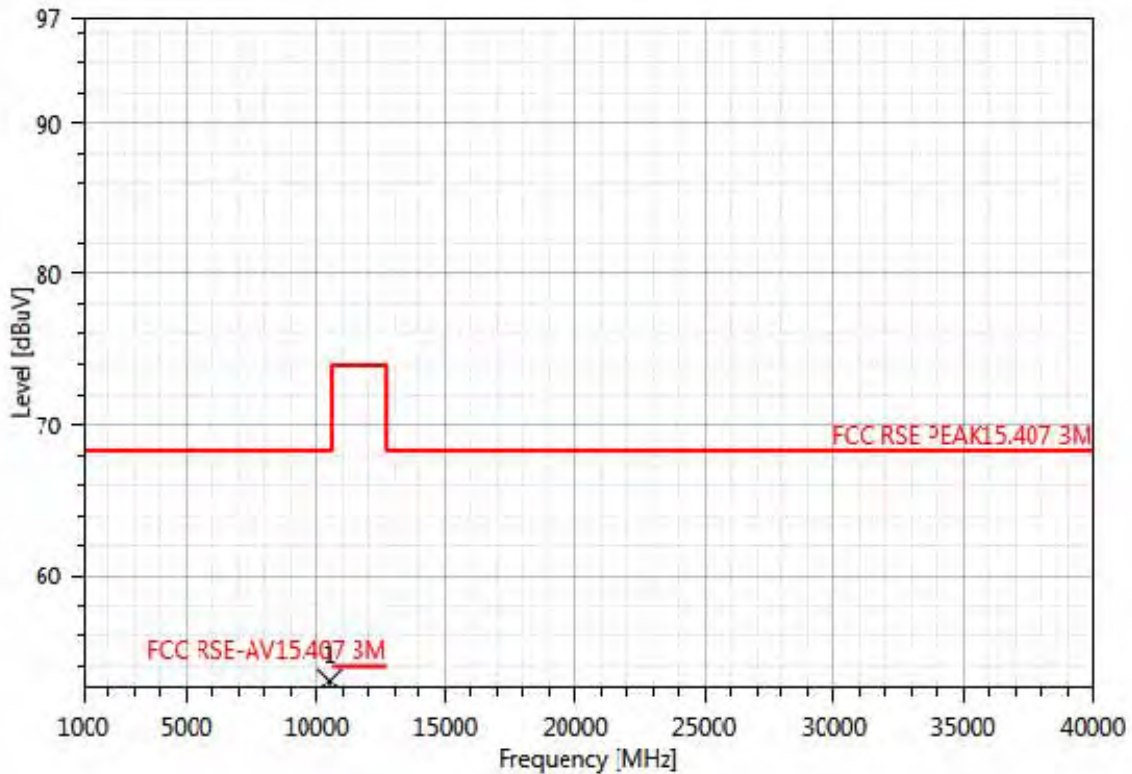
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	02/13/2017
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	53.03	33.66	19.37	68.30	-15.27

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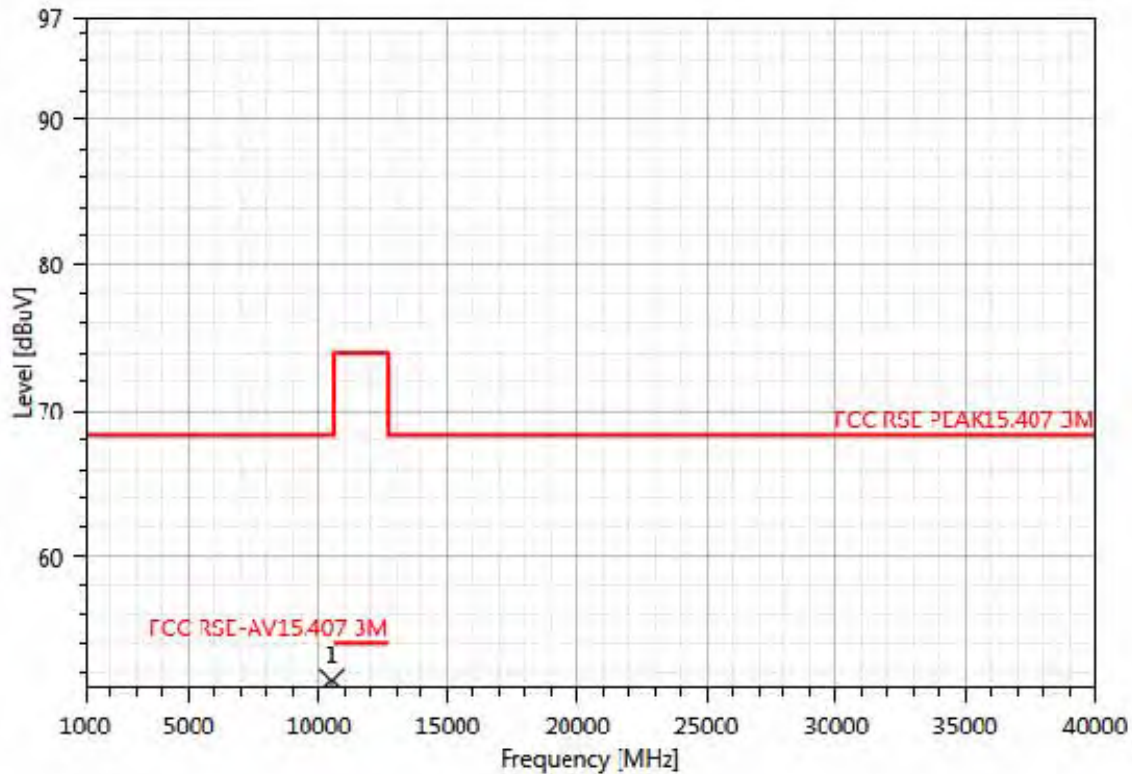
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Operation Mode :	802.11n20B2	Test Date :	02/13/2017
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10520.00	H	Peak	51.47	32.10	19.37	68.30	-16.83

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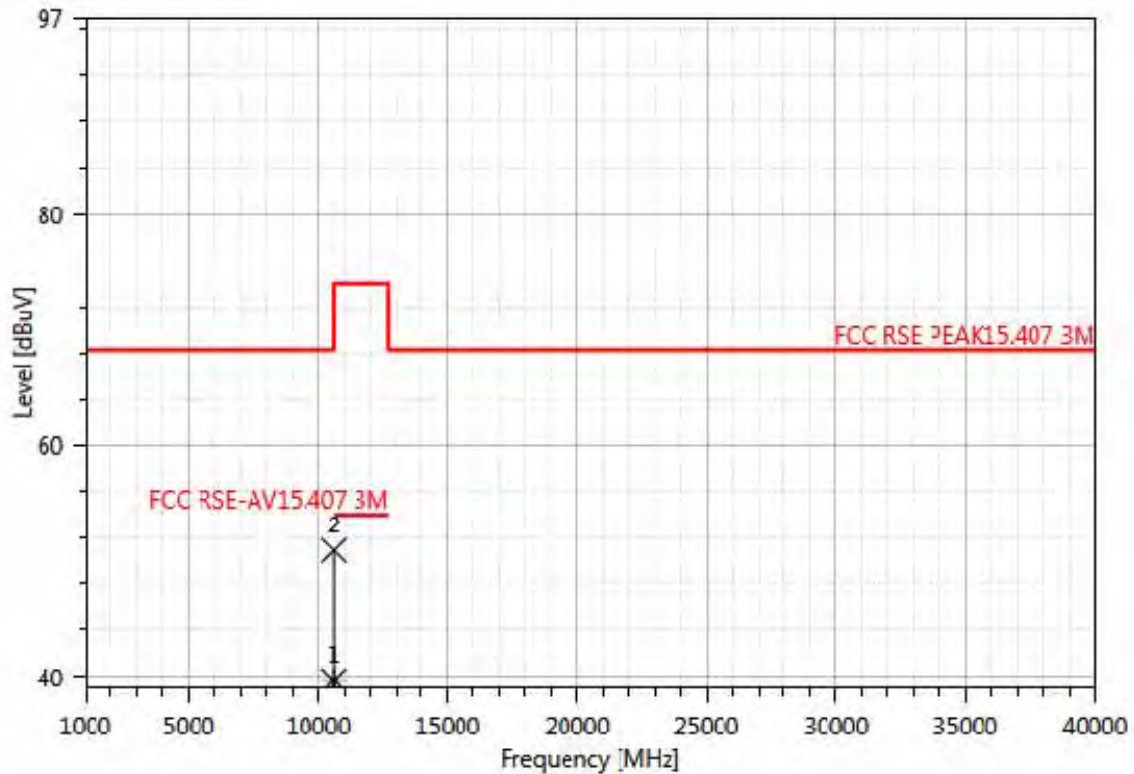
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Operation Mode :	802.11n20B2	Test Date :	02/13/2017
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10600.00	H	Average	39.69	20.78	18.91	54.00	-14.31
10600.00	H	Peak	50.96	32.05	18.91	74.00	-23.04

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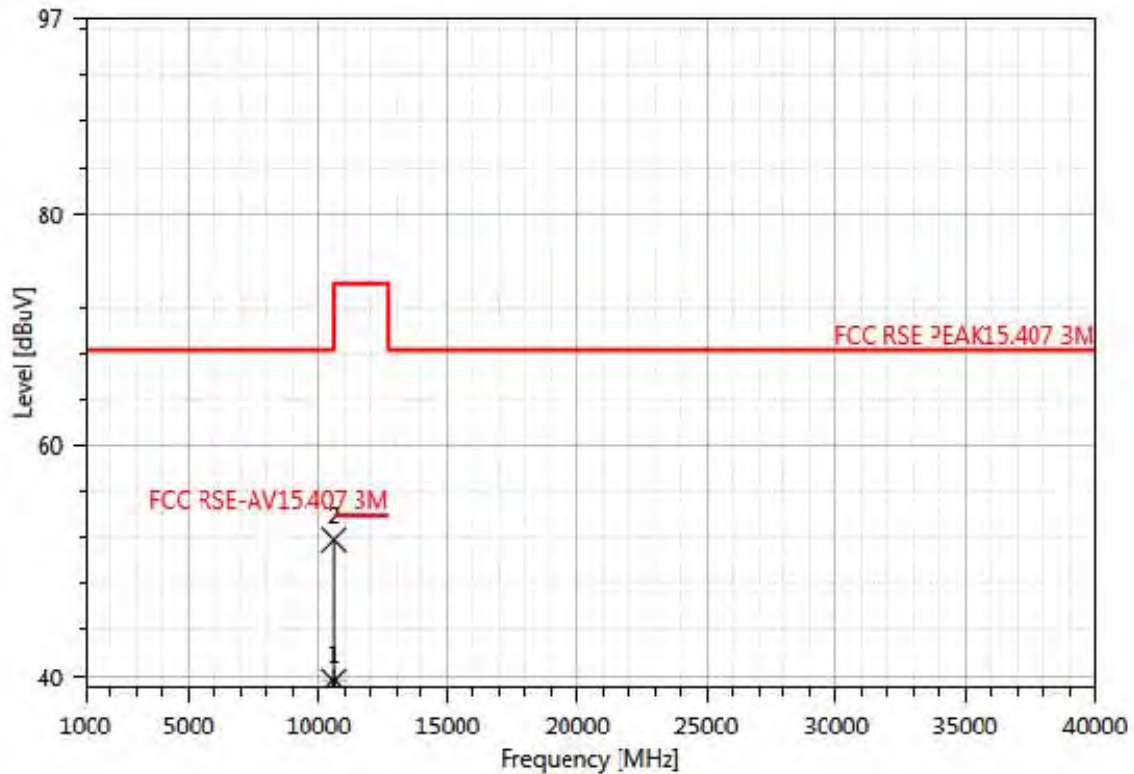
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Operation Mode :	802.11n20B2	Test Date :	02/13/2017
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m		dBuV/m	
10600.00	H	Average	39.70	20.79	18.91	54.00	-14.30
10600.00	H	Peak	51.82	32.92	18.91	74.00	-22.18

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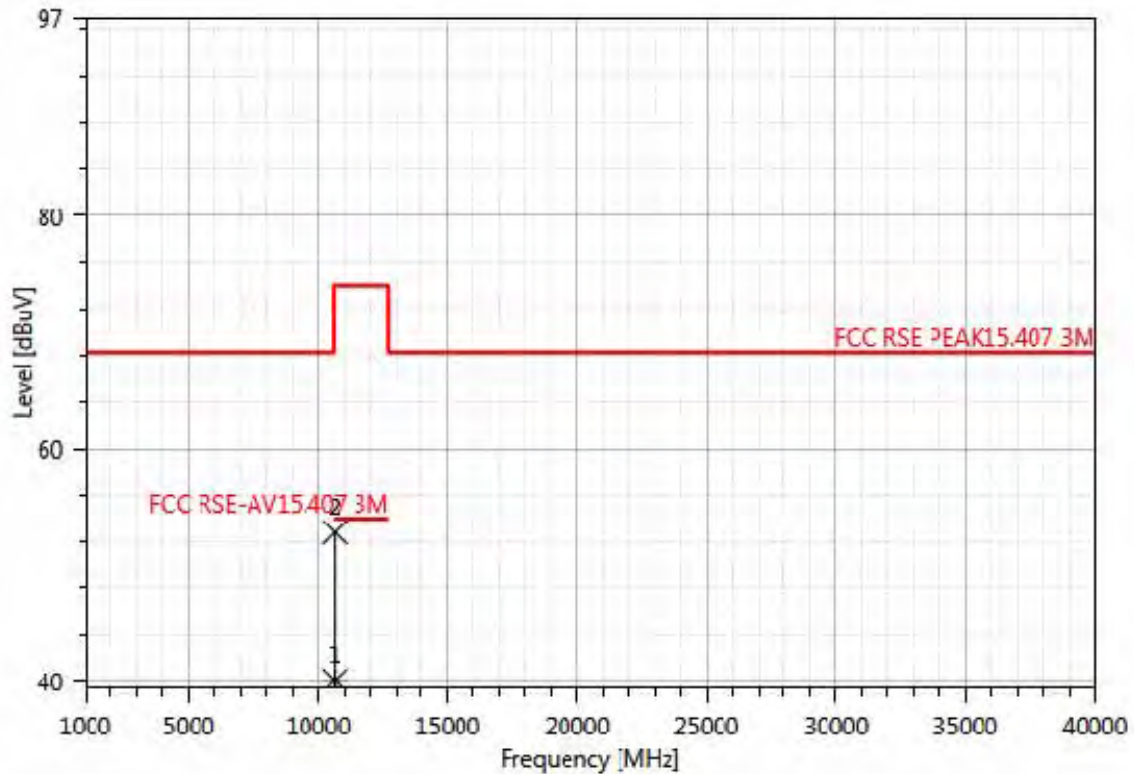
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Operation Mode :	802.11n20B2	Test Date :	02/13/2017
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10640.00	H	Average	40.11	20.93	19.18	54.00	-13.89
10640.00	H	Peak	52.81	33.63	19.18	74.00	-21.19

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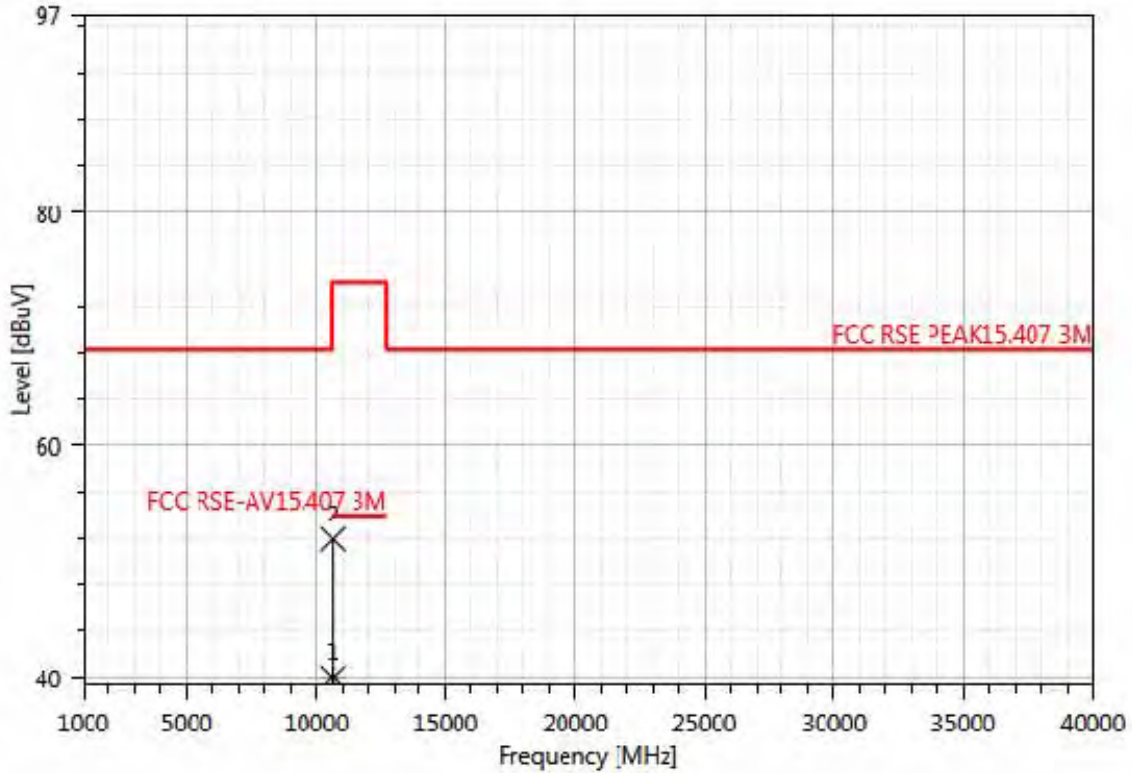
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Operation Mode :	802.11n20B2	Test Date :	02/13/2017
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
10640.00	H	Average	40.07	20.89	19.18	54.00	-13.93
10640.00	H	Peak	51.95	32.76	19.18	74.00	-22.05

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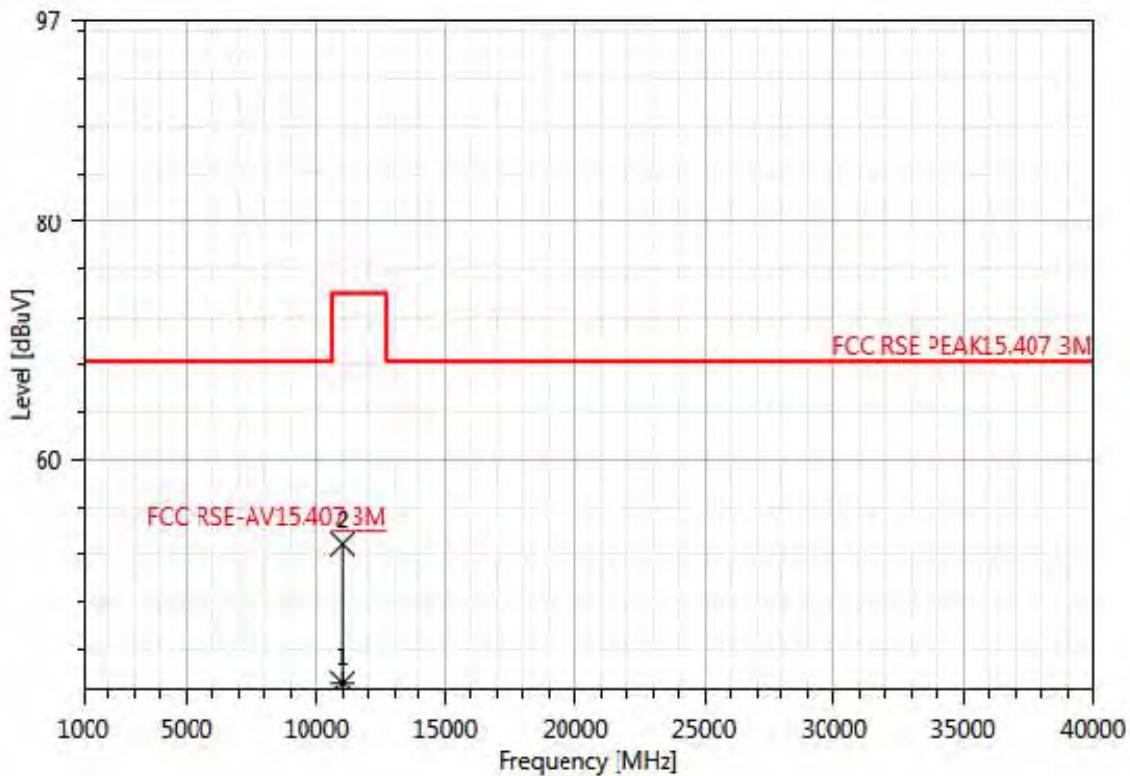
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	02/13/2017
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

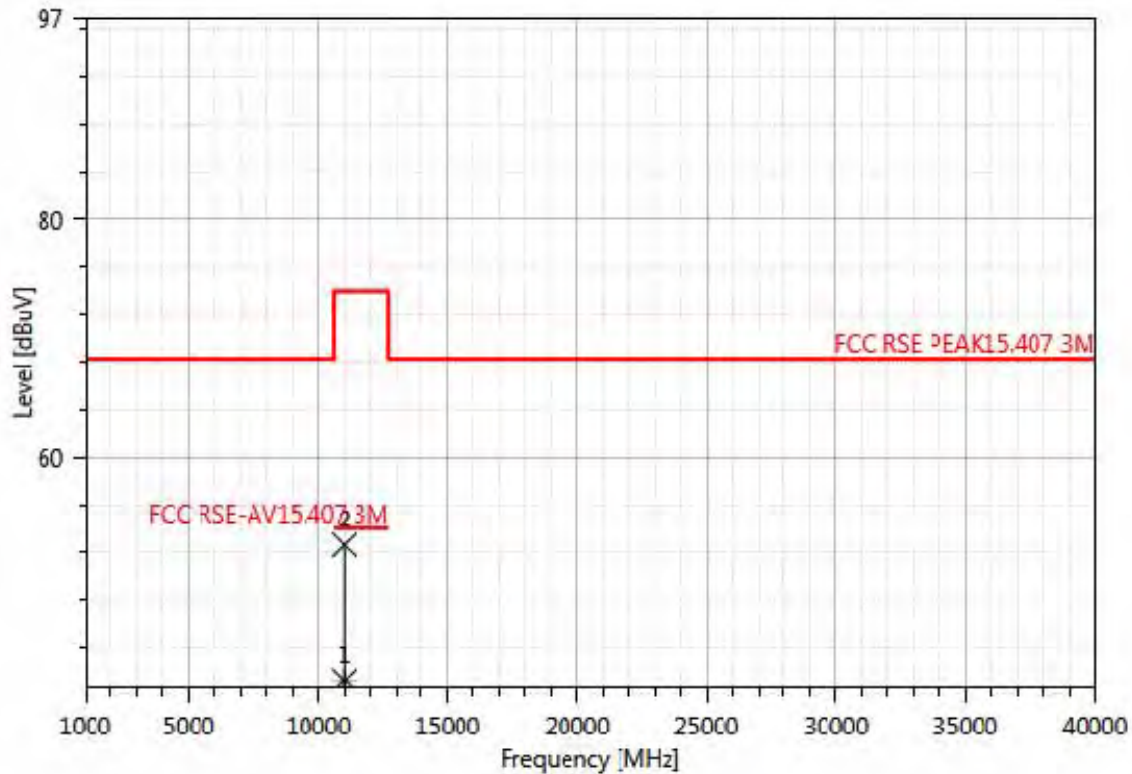


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11000.00	H	Average	41.22	21.05	20.17	54.00	-12.78
11000.00	H	Peak	52.84	32.67	20.17	74.00	-21.16

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Operation Mode :	802.11n20B3	Test Date :	02/13/2017
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11000.00	H	Average	41.21	21.04	20.17	54.00	-12.79
11000.00	H	Peak	52.62	32.46	20.17	74.00	-21.38

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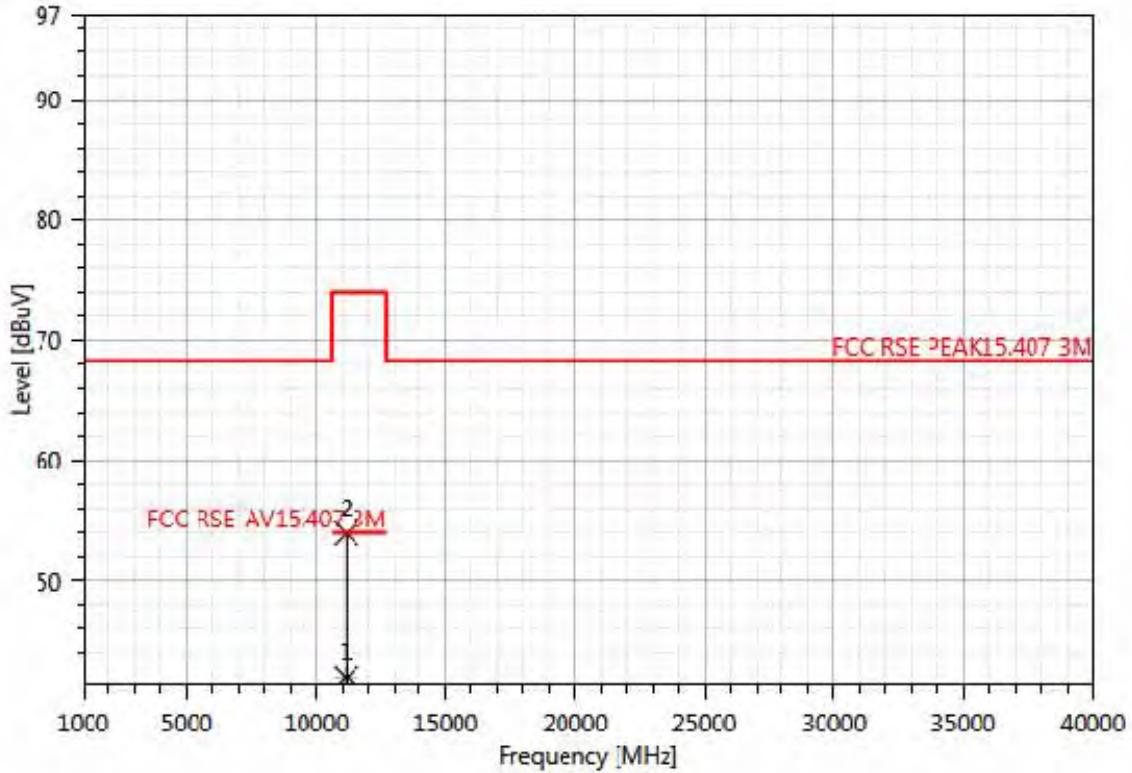
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Operation Mode :	802.11n20B3	Test Date :	02/13/2017
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11160.00	H	Average	42.02	21.57	20.45	54.00	-11.98
11160.00	H	Peak	53.93	33.49	20.45	74.00	-20.07

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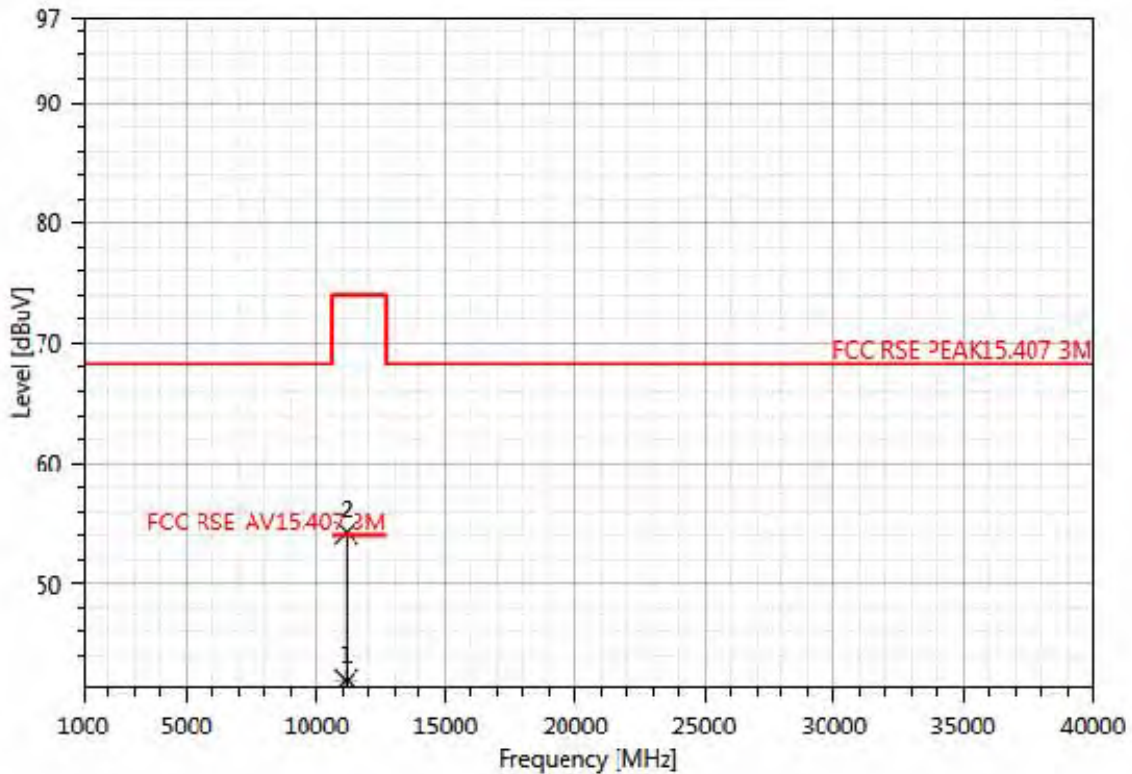
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Operation Mode :	802.11n20B3	Test Date :	02/13/2017
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11160.00	H	Average	42.00	21.55	20.45	54.00	-12.00
11160.00	H	Peak	54.23	33.79	20.45	74.00	-19.77

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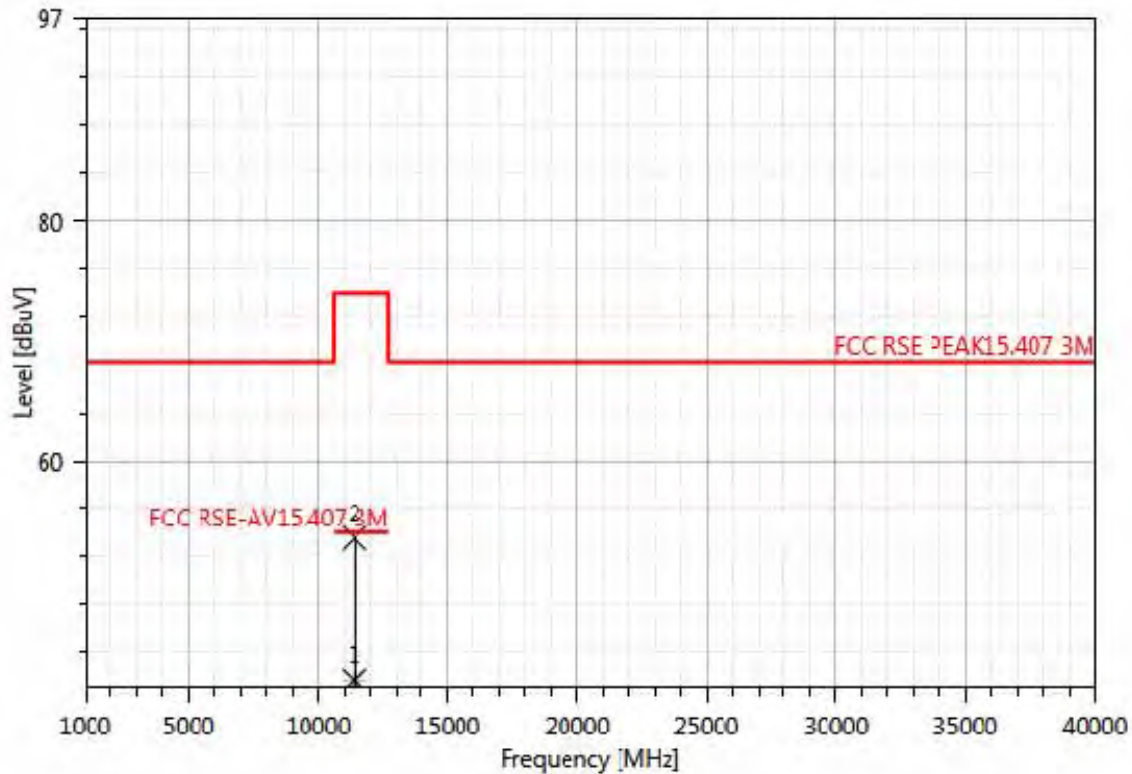
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Operation Mode :	802.11n20B3	Test Date :	02/13/2017
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11400.00	H	Average	41.64	21.08	20.56	54.00	-12.36
11400.00	H	Peak	53.53	32.97	20.56	74.00	-20.47

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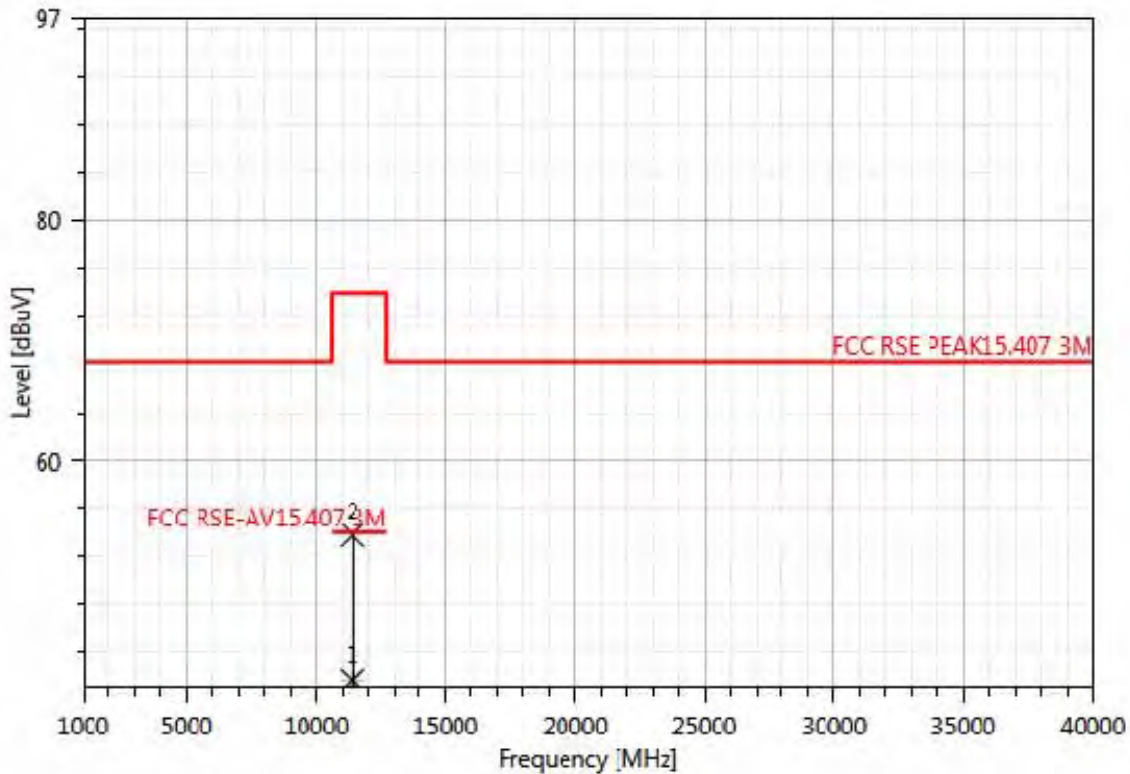
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Operation Mode :	802.11n20B3	Test Date :	02/13/2017
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m		dBuV/m	
11400.00	H	Average	41.63	21.07	20.56	54.00	-12.37
11400.00	H	Peak	53.78	33.22	20.56	74.00	-20.22

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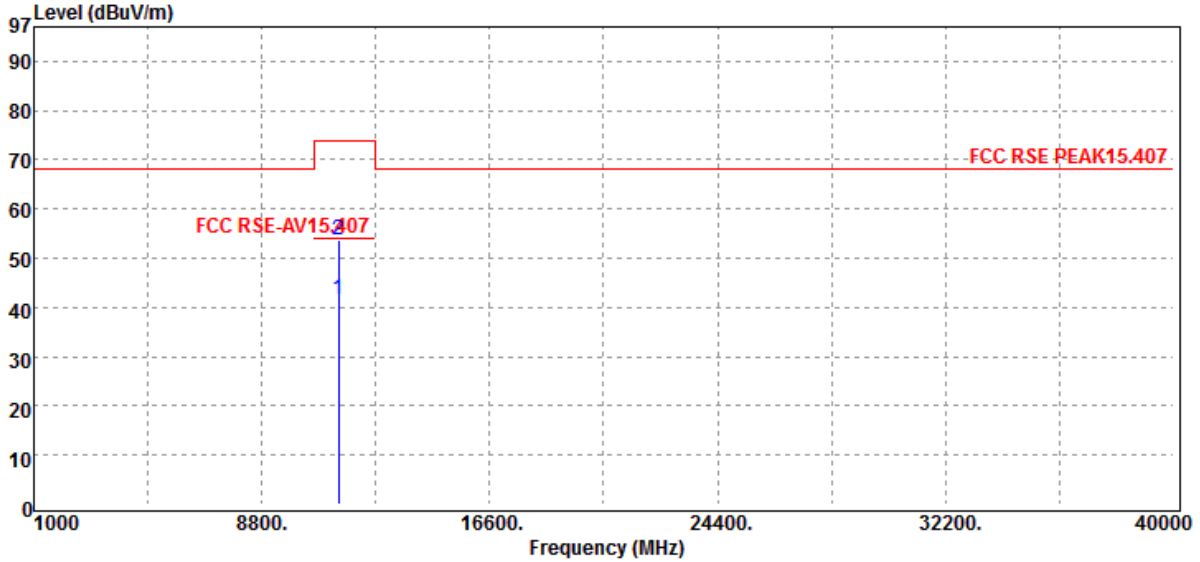
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Operation Mode :	802.11ac20B3	Test Date :	02/13/2017
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

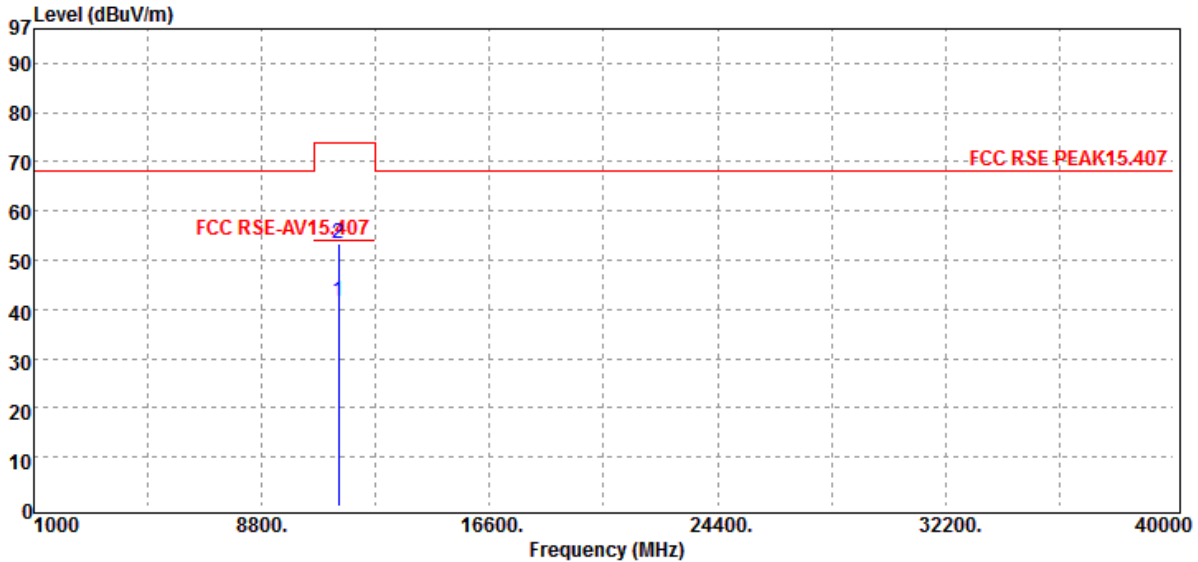


Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11440.00	H	Average	21.07	20.44	41.51	54.00	-12.49
11440.00	H	Peak	33.12	20.44	53.56	74.00	-20.44

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Operation Mode :	802.11ac20B3	Test Date :	02/13/2017
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
11440.00	H	Average	21.14	20.44	41.58	54.00	-12.42
11440.00	H	Peak	32.98	20.44	53.42	74.00	-20.58

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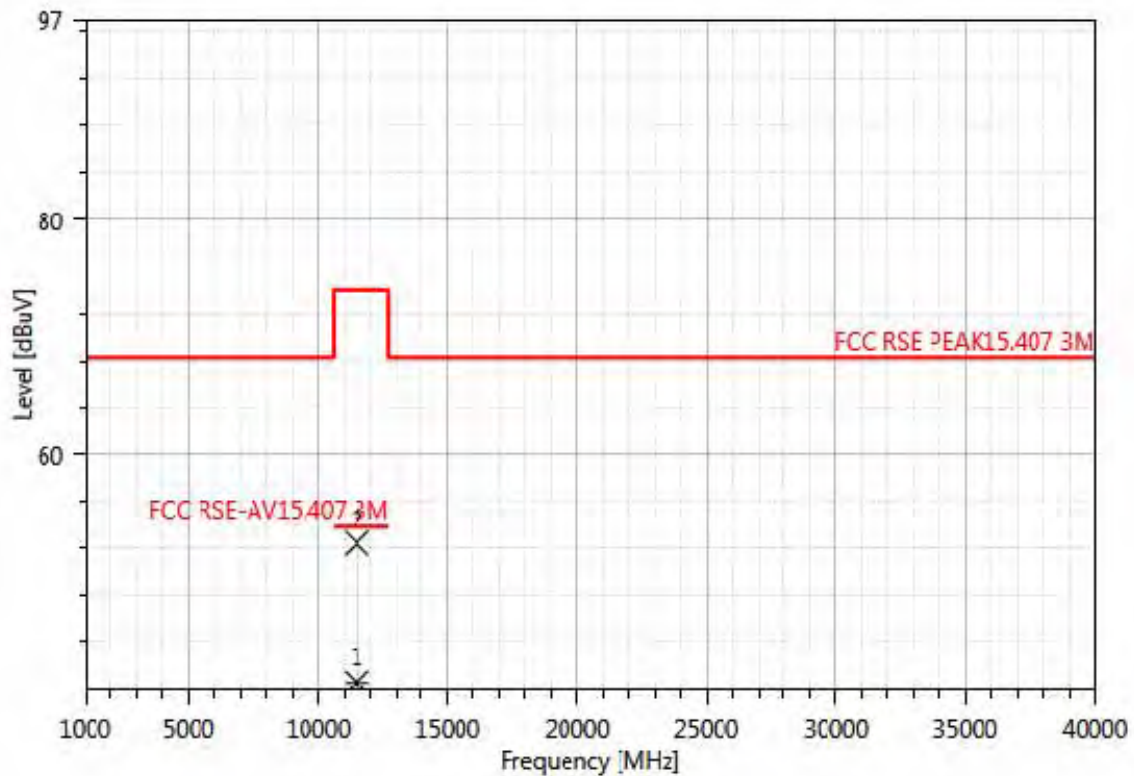
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	02/13/2017
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	40.61	20.19	20.42	54.00	-13.39
11490.00	H	Peak	52.45	32.03	20.42	74.00	-21.55

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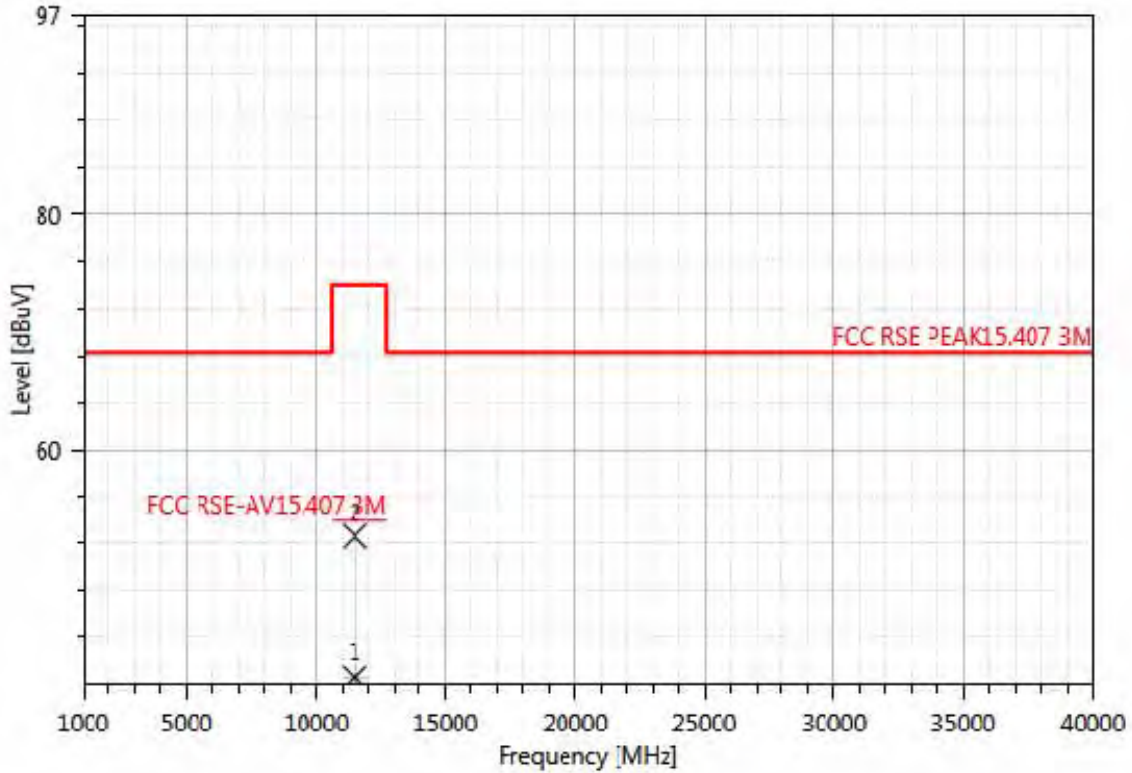
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Operation Mode :	802.11n20B4	Test Date :	02/13/2017
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11490.00	H	Average	40.62	20.20	20.42	54.00	-13.38
11490.00	H	Peak	52.62	32.20	20.42	74.00	-21.38

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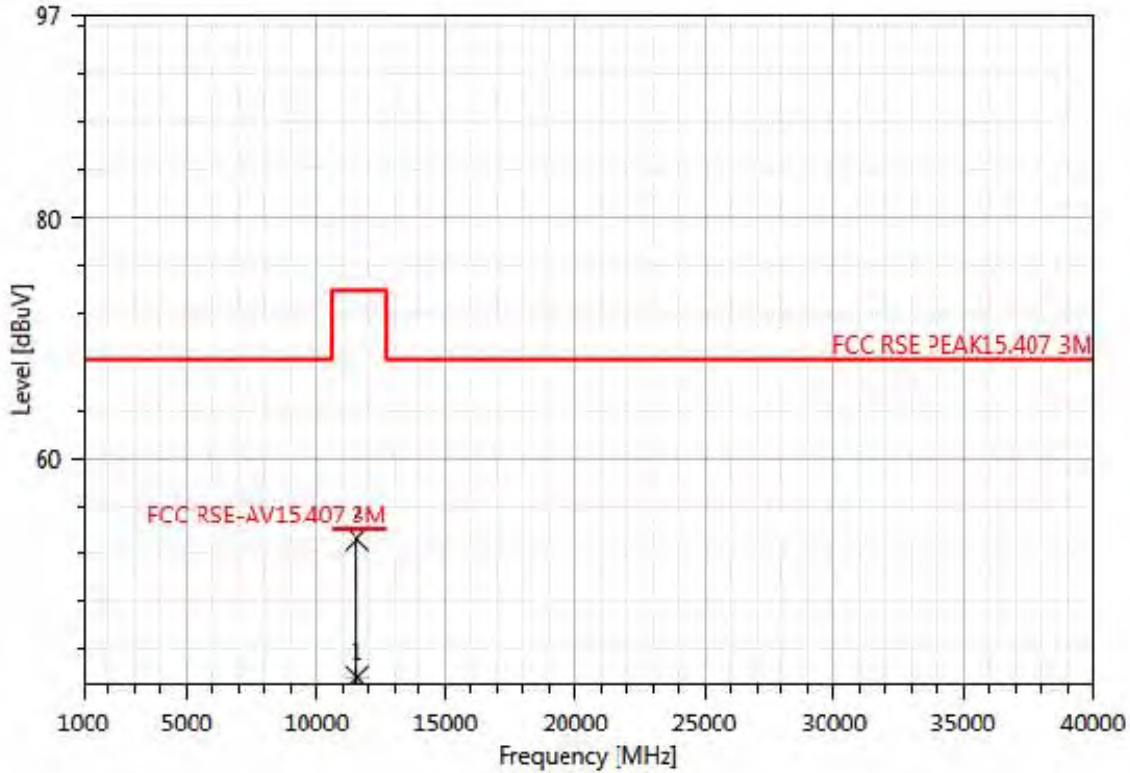
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Operation Mode :	802.11n20B4	Test Date :	02/13/2017
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m		dBuV/m	
11570.00	H	Average	41.68	21.09	20.59	54.00	-12.32
11570.00	H	Peak	53.25	32.66	20.59	74.00	-20.75

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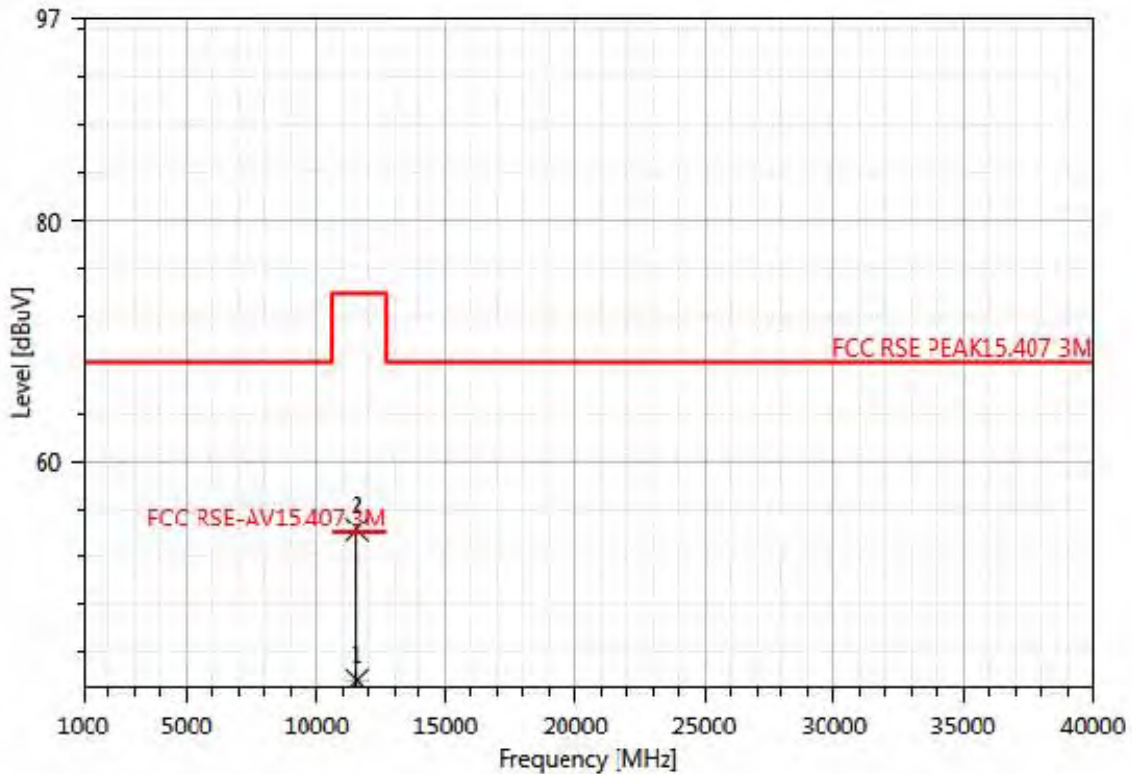
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Operation Mode :	802.11n20B4	Test Date :	02/13/2017
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
11570.00	H	Average	41.67	21.08	20.59	54.00	-12.33
11570.00	H	Peak	54.27	33.68	20.59	74.00	-19.73

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