

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Brand Name:** Sony

**FCC ID:** PY7-55364J

**Report No.:** ER/2016/C0044

**Issue Date:** Mar. 07, 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  
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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:** PY7-55364J

**File Number:** ER/2016/C0044

**Date of Test:** Dec. 09, 2016 ~ Jan. 13, 2017

**Date of EUT Received:** Dec. 09, 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:**

Mar. 07, 2017

*Louis Chen / Engineer*

**Prepared By:**

*Karen Huang*

**Date:**

Mar. 07, 2017

*Karen Huang / Clerk*

**Approved By:**

*Jim Chang*

**Date:**

Mar. 07, 2017

*Jim Chang / Asst. Manager*

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2016/C0044	Rev.00	Initial creation of document	Jan. 09, 2017
ER/2016/C0044	Rev.01	Updated radiated band-edge on page 177~230	Jan. 13, 2017
ER/2016/C0044	Rev.02	Provide measurement plot of radiation, please refer to Appendix I.	Jan. 23, 2017
ER/2016/C0044	Rev.03	Update general information & add MPE evaluation.	Feb. 06, 2017
ER/2016/C0044	Rev.04	Add ferrite core & update conduction setup photo.	Mar. 01, 2017
ER/2016/C0044	Rev.05	Update test result	Mar. 07, 2017

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## 1. GENERAL INFORMATION

### 1.1 Product Description

General:

Brand Name:	Sony	
Hardware Version:	A	
Software Version:	0.20	
Data Cable (USB):	Model No.: UCB20, Supplier: Sony, Length:100 cm	
BT Headset:	Model No.: MW600, Supplier: Sony	
HDMI Cable:	Model No.: DLC-HEU10A, Supplier: Sony	
Ferrite Core:	Type No.: ZCAT-2035-0930A-BK, Supplier: Sony	
Power Supply:	11.1Vdc	
	Battery:	Model No.: N/A, Supplier: N/A
	Adapter:	Model No.:UCH30C, Supplier: Sony

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	15.41 dBm	OFDM
	5250~5350	4	15.20 dBm	
	5470~5725	12	16.25 dBm	
	5725-5850	5	13.52 dBm	
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 15.08 dBm (Worst Case)	OFDM
	HT / VHT20 5250~5350	4	HT: 14.84 dBm (Worst Case)	
	HT / VHT20 5470~5725	11	HT: 15.93 dBm (Worst Case)	
	VHT20 5720~5720	1	VHT: 11.64dBm (Worst Case)	
	HT / VHT20 5725-5850	5	HT: 13.02 dBm (Worst Case)	
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 14.46 dBm (Worst Case)	OFDM
	HT / VHT40 5250~5350	2	HT: 14.69 dBm (Worst Case)	
	HT / VHT40 5470~5725	5	HT: 14.86 dBm (Worst Case)	
	VHT 40 5710~5710	1	VHT: 12.88dBm (Worst Case)	
	HT / VHT40 5725-5850	2	HT: 12.84 dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	7.06 dBm	OFDM
	VHT80 5250~5350	1	10.73 dBm	
	VHT80 5470~5725	2	10.01 dBm	
	VHT80 5690	1	10.78 dBm	
	VHT80 5725-5850	1	11.22 dBm	

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Antenna Designation	PIFA Antenna, 5GHz Gain: -0.2dBi (5150MHz-5250MHz) 5GHz Gain: 2dBi (5250MHz-5350MHz) 5GHz Gain: -0.6dBi (5470MHz-5725MHz) 5GHz Gain: 0.3dBi (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)

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

### 2.4 Measurement Results Explanation Example

#### For all conducted test items:

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

#### Note:

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

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

#### Offset:

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

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

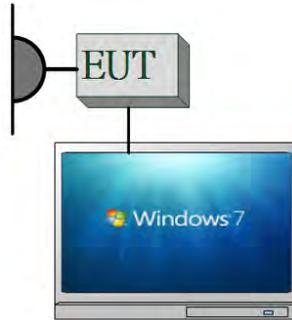


Fig. 2-2 Conducted (Antenna Port) Configuration

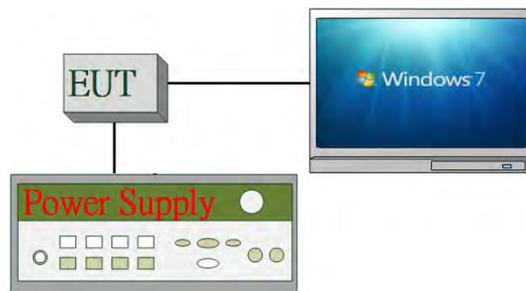


Fig. 2-3 AC Power Line Conducted Emission Configuration

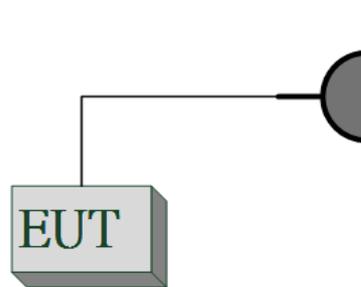


Table 2-1 Equipment Used in Tested System

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

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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.

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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

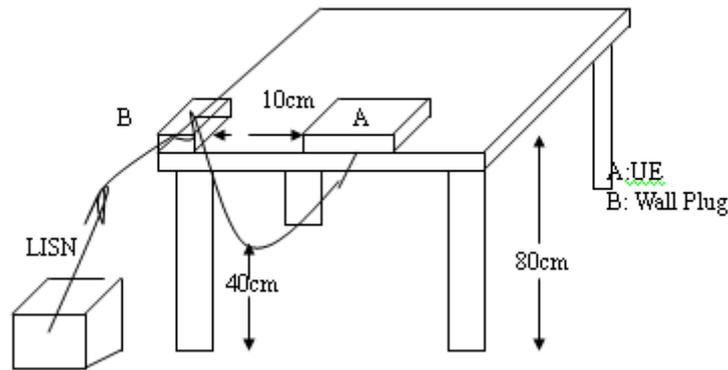
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- The LISN was connected with 120Vac/60Hz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

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## 6.4. Test SET-UP



## 6.5. Measurement Procedure

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

## 6.6. Measurement Result

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

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

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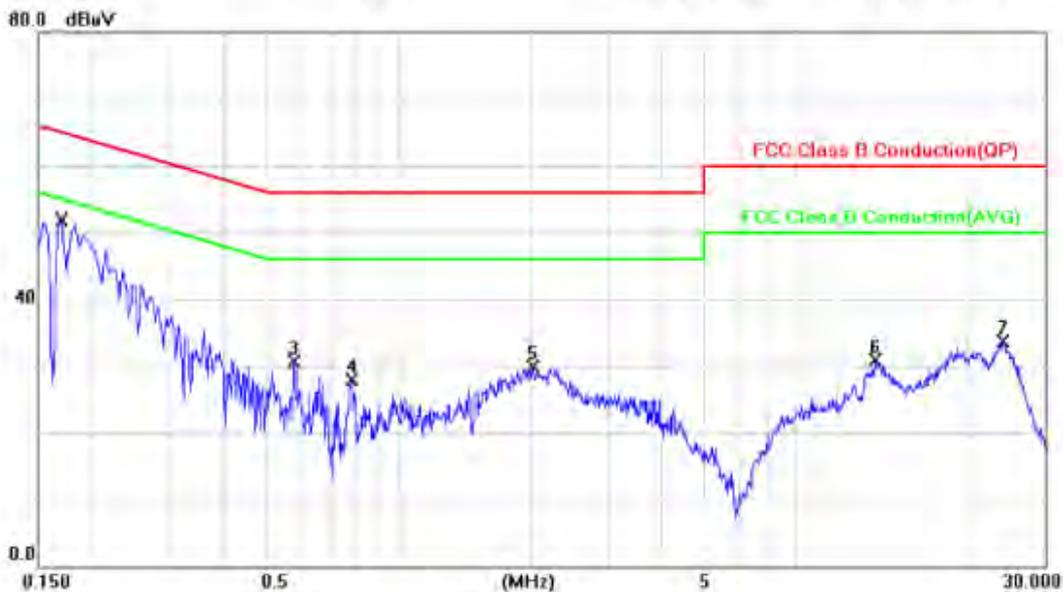
## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Dec. 22, 2016	
Temperature:	20 °C	Humidity:	58 %	Test By:	Louis
				Phase:	L1 / N

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

### Conducted Emission

Data #1      Date: 2016/12/22      Time: 10:47:03



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1700	45.80	0.10	45.90	64.96	-19.06	QP	
2		0.1700	26.90	0.10	27.00	54.96	-27.96	AVG	
3		0.5780	30.62	0.13	30.75	56.00	-25.25	peak	
4		0.7820	27.73	0.13	27.86	56.00	-28.14	peak	
5		2.0260	29.71	0.17	29.88	56.00	-26.12	peak	
6		12.3140	30.43	0.40	30.83	60.00	-29.17	peak	
7		24.1220	33.26	0.47	33.73	60.00	-26.27	peak	

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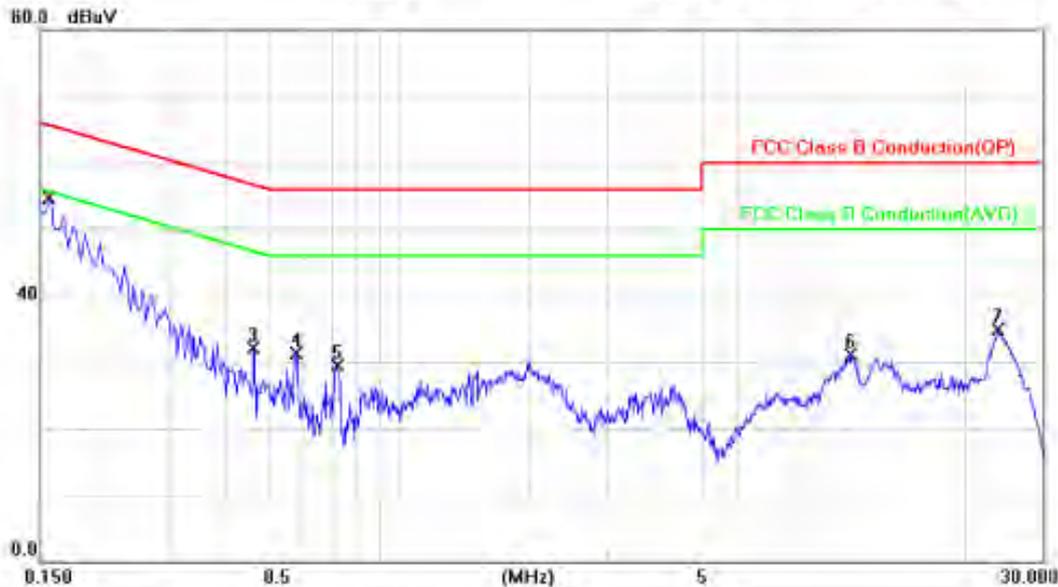
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Site: Conduction Room	Phase: <b>N</b>	Temperature: 20.1
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 58%
Mode:		

### Conducted Emission

Data: #2 Date: 2016/12/22 Time: 上午 10:52:22



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1580	48.60	0.10	48.70	65.57	-16.87	QP	
2		0.1580	30.90	0.10	31.00	55.57	-24.57	AVG	
3		0.4660	31.94	0.12	32.06	56.58	-24.52	peak	
4		0.5820	31.13	0.13	31.26	56.00	-24.74	peak	
5		0.7260	29.35	0.13	29.48	56.00	-26.52	peak	
6		10.8980	30.75	0.40	31.15	60.00	-28.85	peak	
7		23.7500	34.37	0.47	34.84	60.00	-25.16	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	99.52	0.02
802.11n_20	99.14	0.04
802.11n_40	98.54	0.06
802.11ac_80	97.14	0.13

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9952) = 0.02$$

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

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9854) = 0.06$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9714) = 0.13$$

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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20



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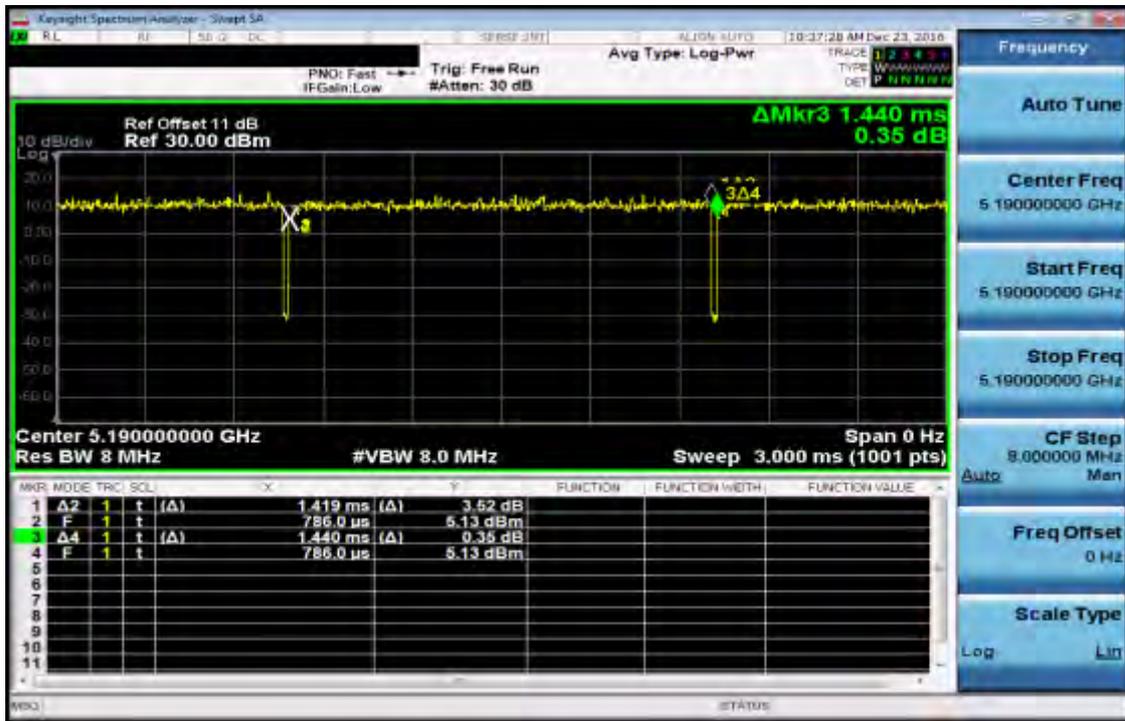
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### 802.11n HT 40



### 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.

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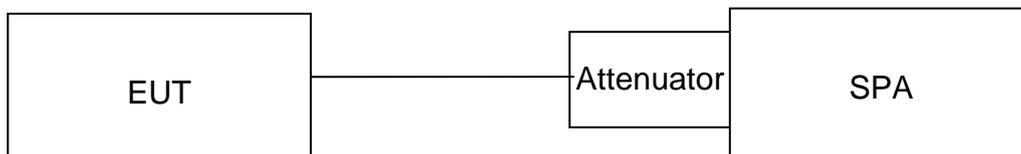
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### 8.3 Measurement Equipment Used

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

### 8.4 Test Set-up



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## 8.5 Measurement Result 26dB Bandwidth

802.11a\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.24	13.272
5220	21.43	13.310
5240	21.41	13.306
5260	21.04	13.230
5300	21.46	13.316
5320	21.37	13.298
5500	20.90	13.201
5580	21.61	13.347
5700	21.14	13.251

802.11n\_HT20\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.27	13.069
5220	21.56	13.336
5240	21.77	13.379
5260	21.51	13.326
5300	21.20	13.263
5320	20.58	13.134
5500	20.21	13.056
5580	22.97	13.612
5700	21.47	13.318

802.11n\_HT40\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.74	15.992
5230	39.39	15.954
5270	42.17	16.250
5310	39.29	15.943
5510	40.17	16.039
5550	<b>39.66</b>	15.984
5670	39.30	15.944

802.11ac\_VHT80\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.75	19.071
5290	81.01	19.085
5530	81.36	19.104
5610	80.88	19.078

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802.11ac VHT20\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	15.840	12.00
5720 (UNII-3)	5.760	7.60

802.11ac VHT40\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	35.000	15.44
5710 (UNII-3)	4.920	6.92

802.11ac VHT80\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	75.200	18.76
5690 (UNII-3)	5.200	7.16

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

**802.11a\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.38	12.144
5785	16.33	12.129
5825	16.32	12.126

**802.11n\_HT20\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.57	12.448
5785	17.63	12.463
5825	17.54	12.439

**802.11n\_HT40\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.90	15.551
5795	35.49	15.502

**802.11ac\_VHT80\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.24	18.764

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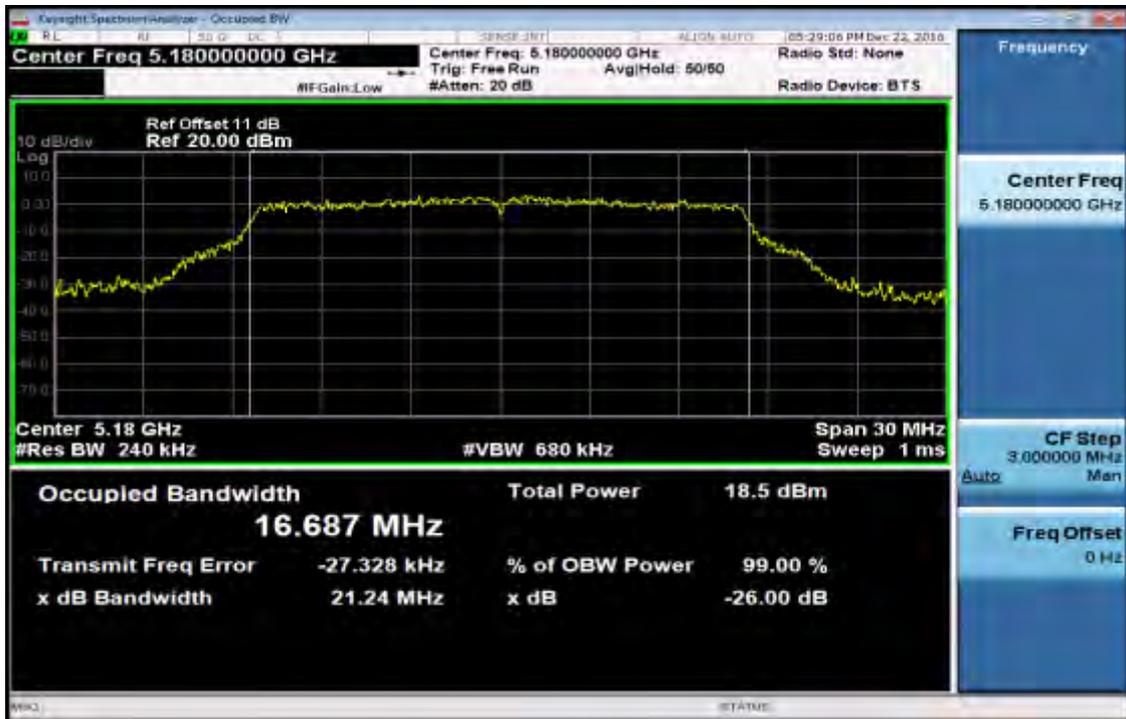
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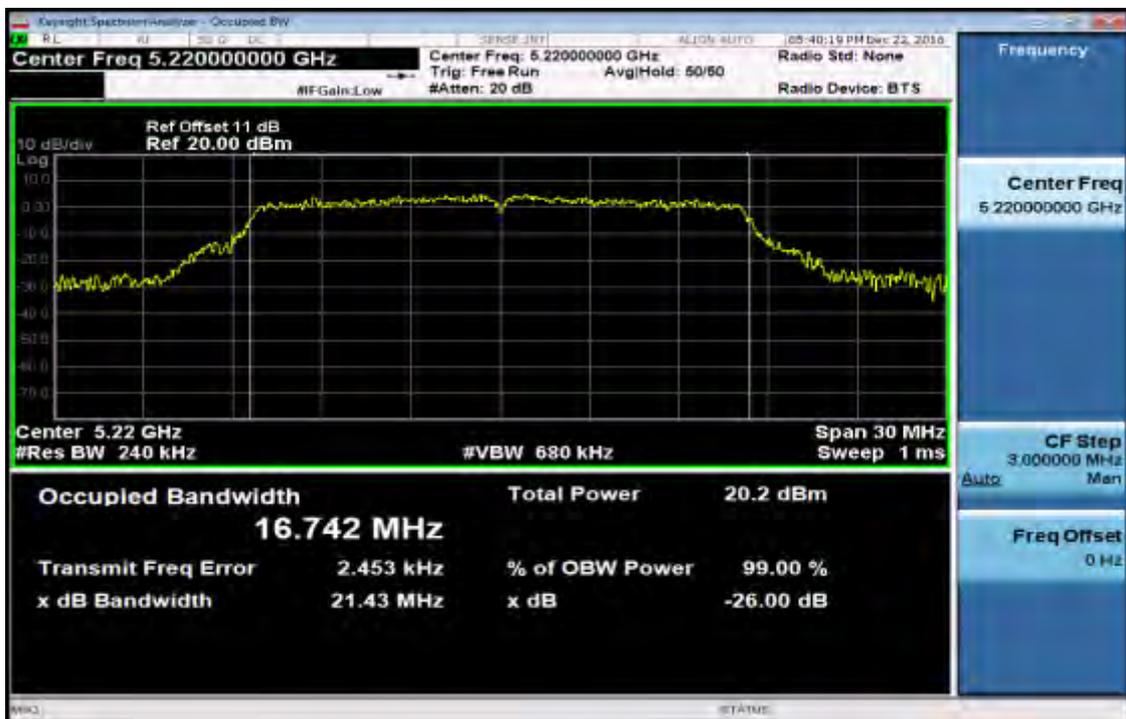
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**802.11a, 5150~5250 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5180MHz)**



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



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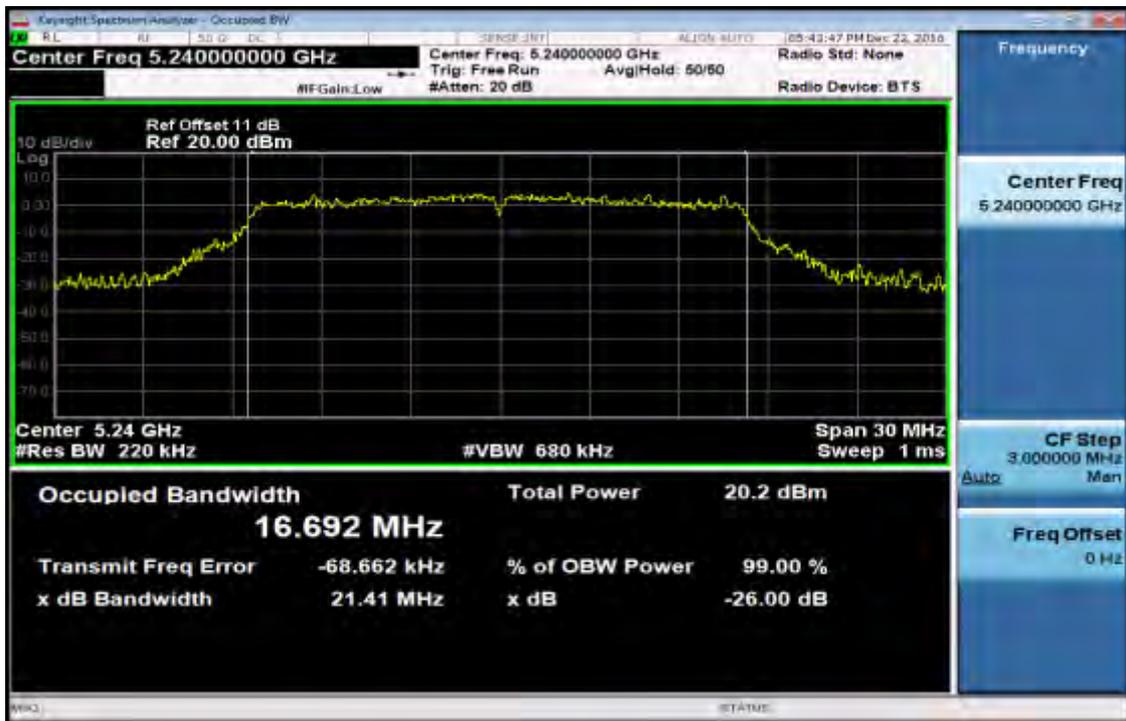
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### 26dB Band Width Test Data CH-High (5240MHz)



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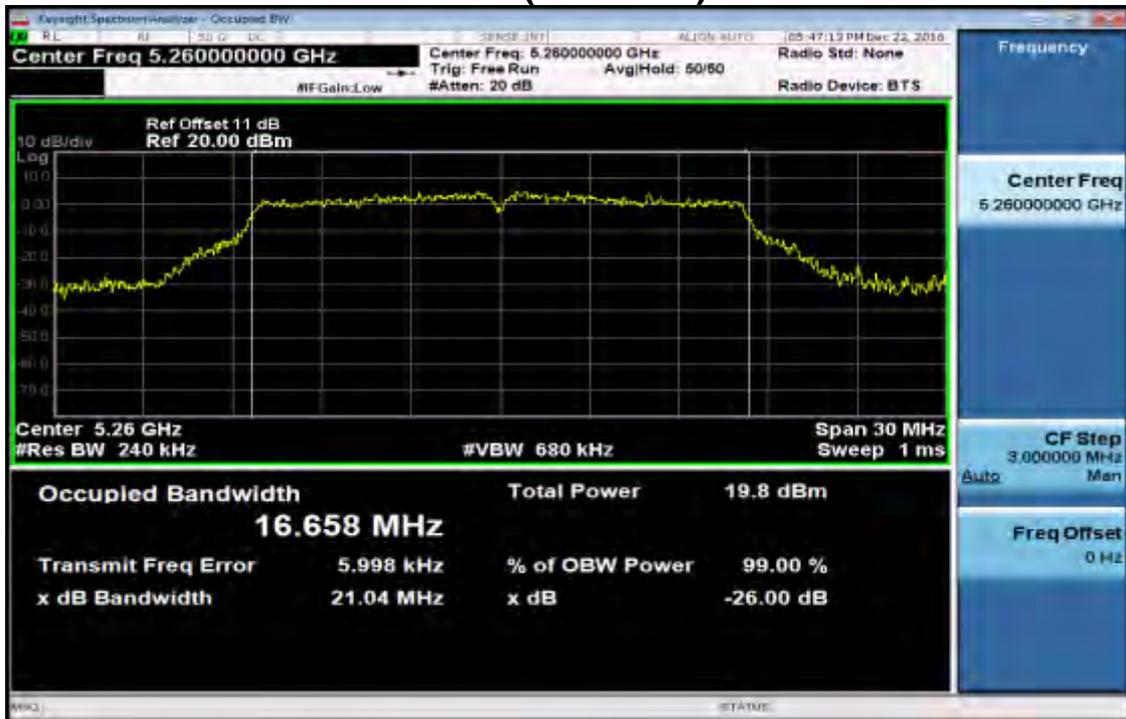
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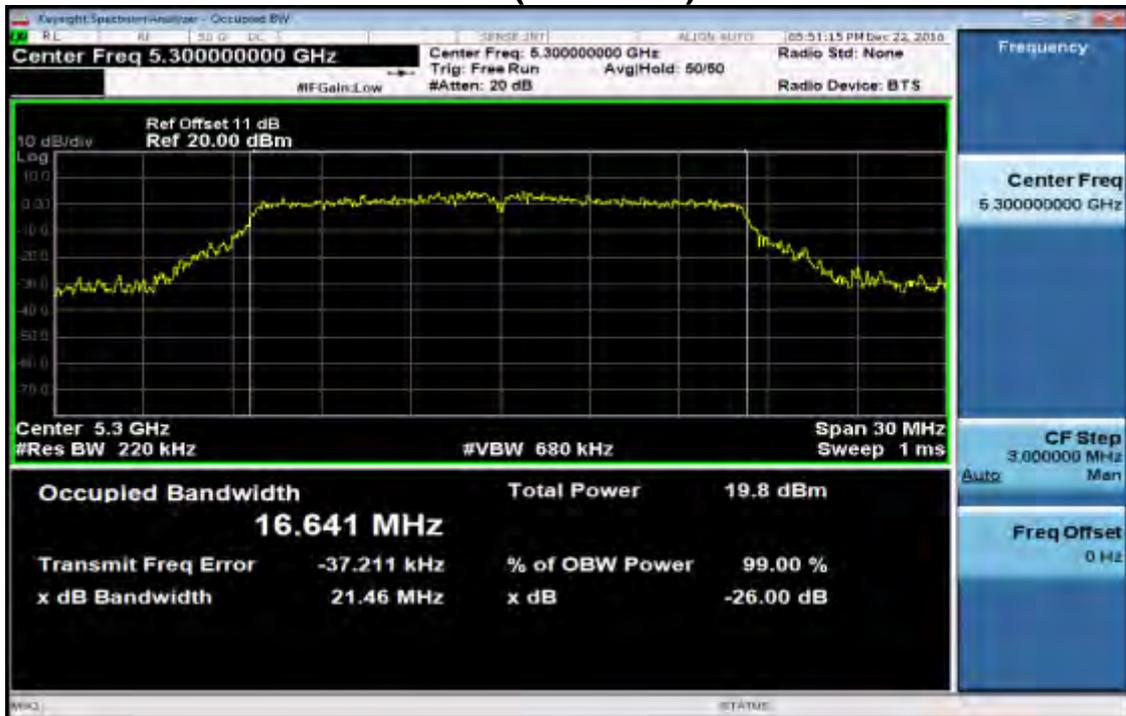
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**802.11a, 5250~5350 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5260MHz)**



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



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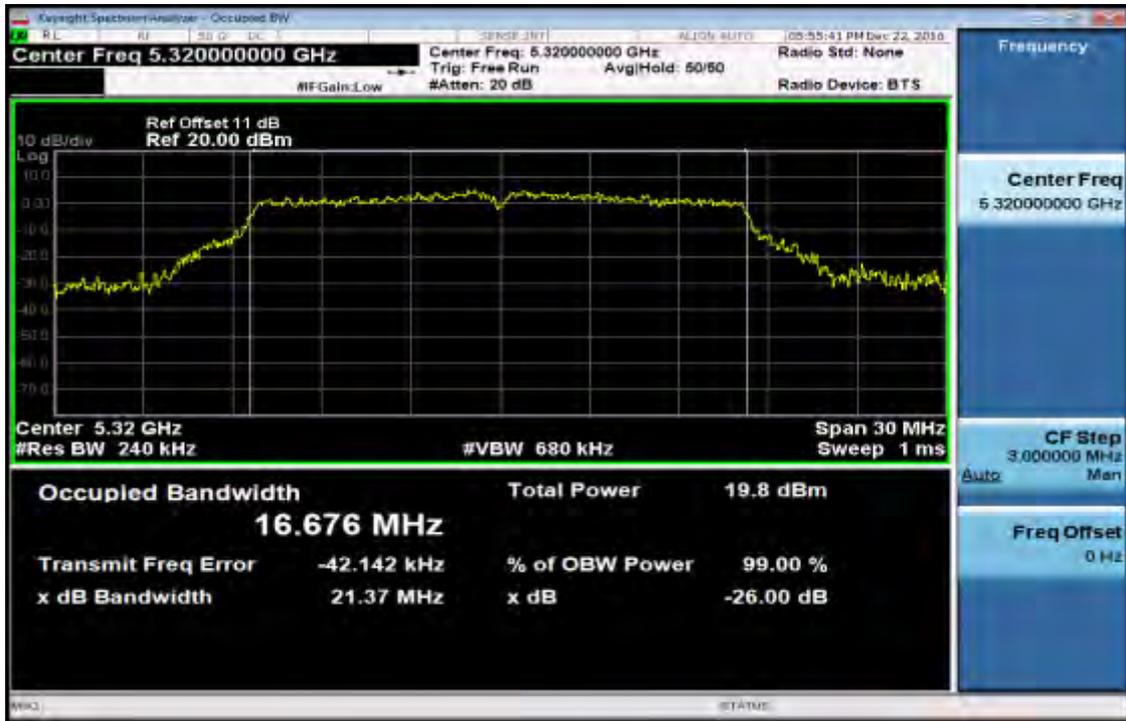
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### 26dB Band Width Test Data CH-High (5320MHz)



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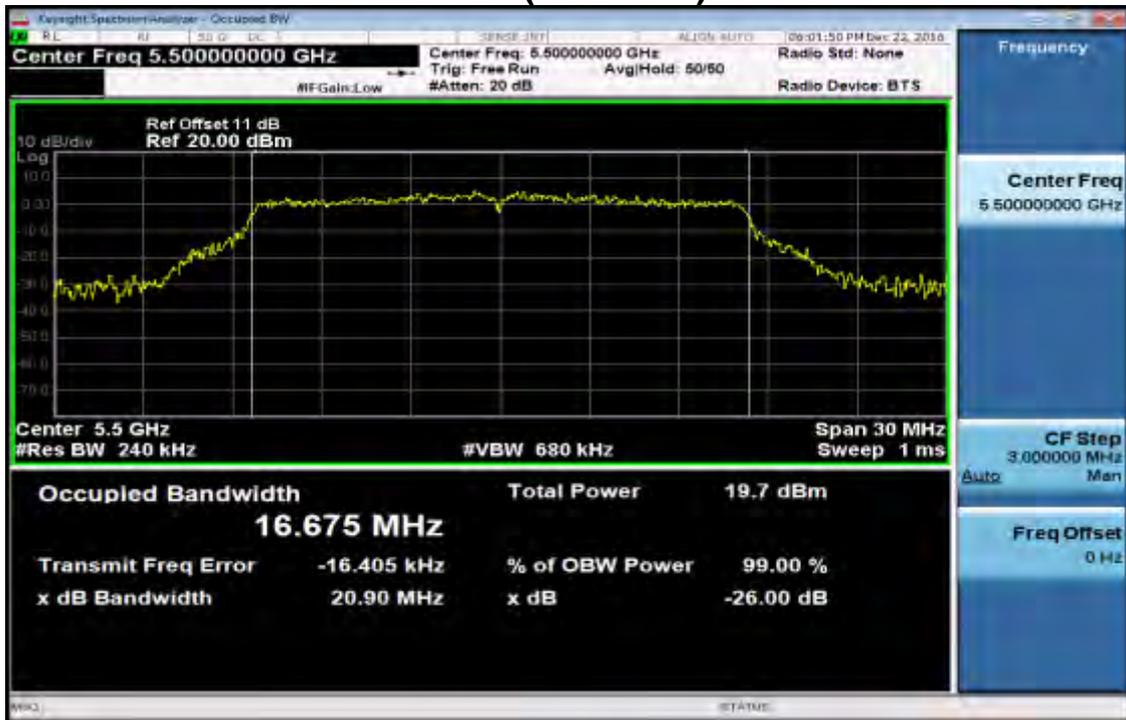
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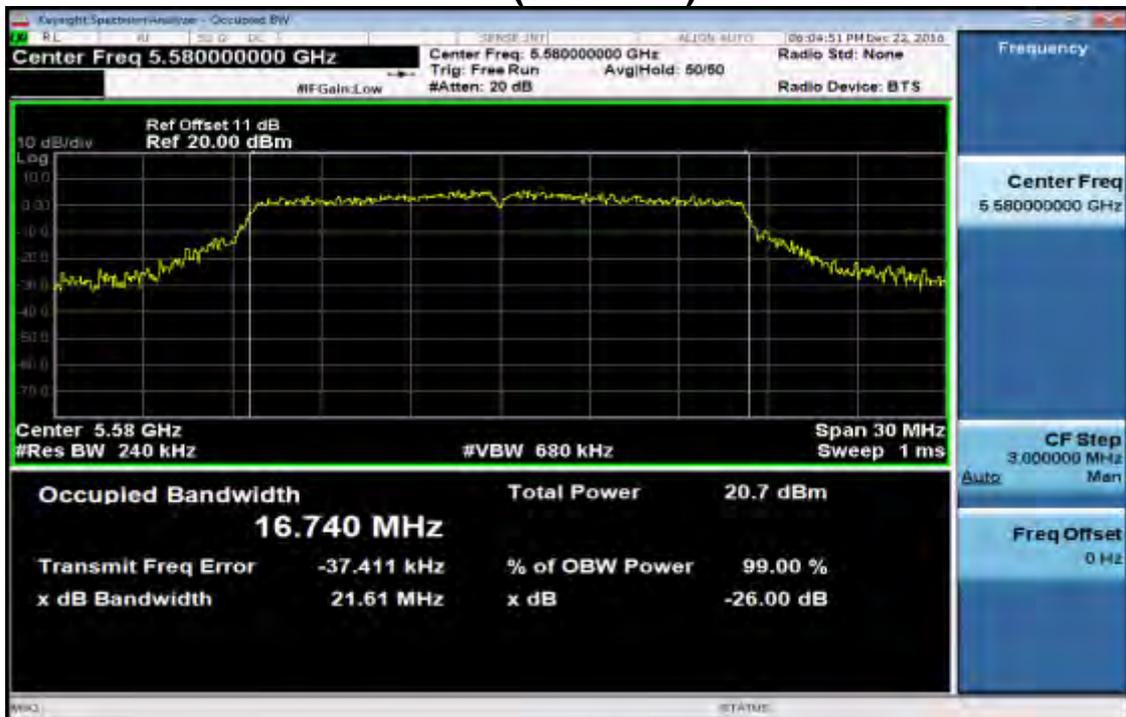
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**802.11a, 5470~5725 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5500MHz)**



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



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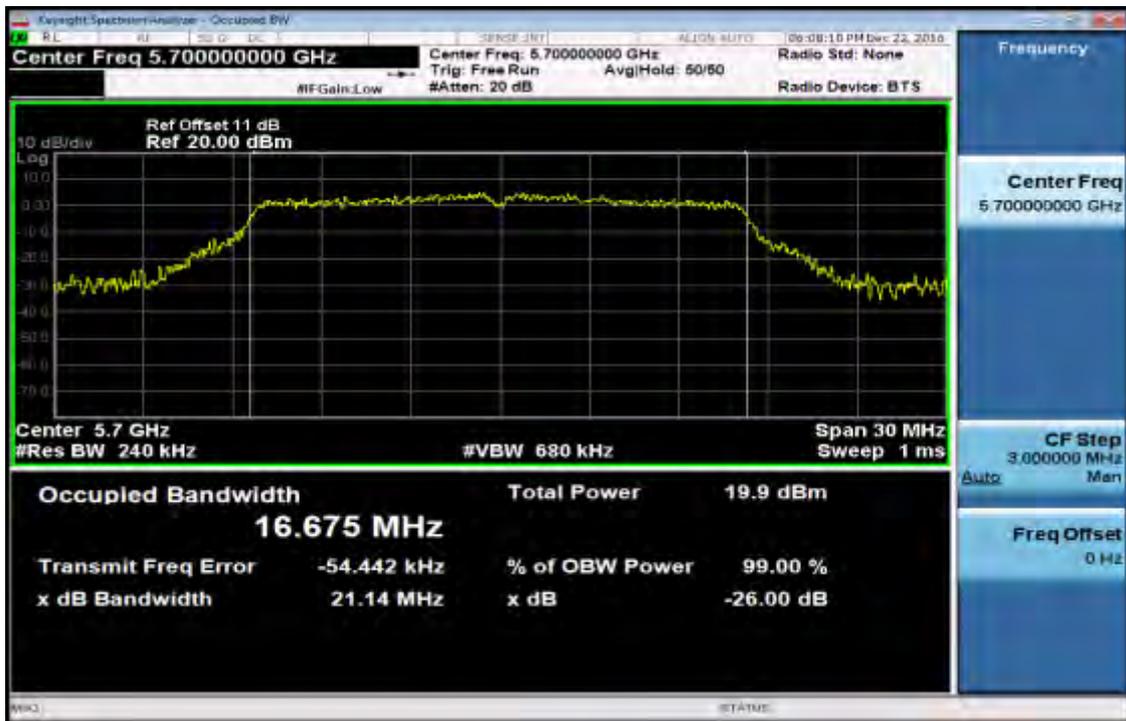
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## 26dB Band Width Test Data CH-High (5700MHz)



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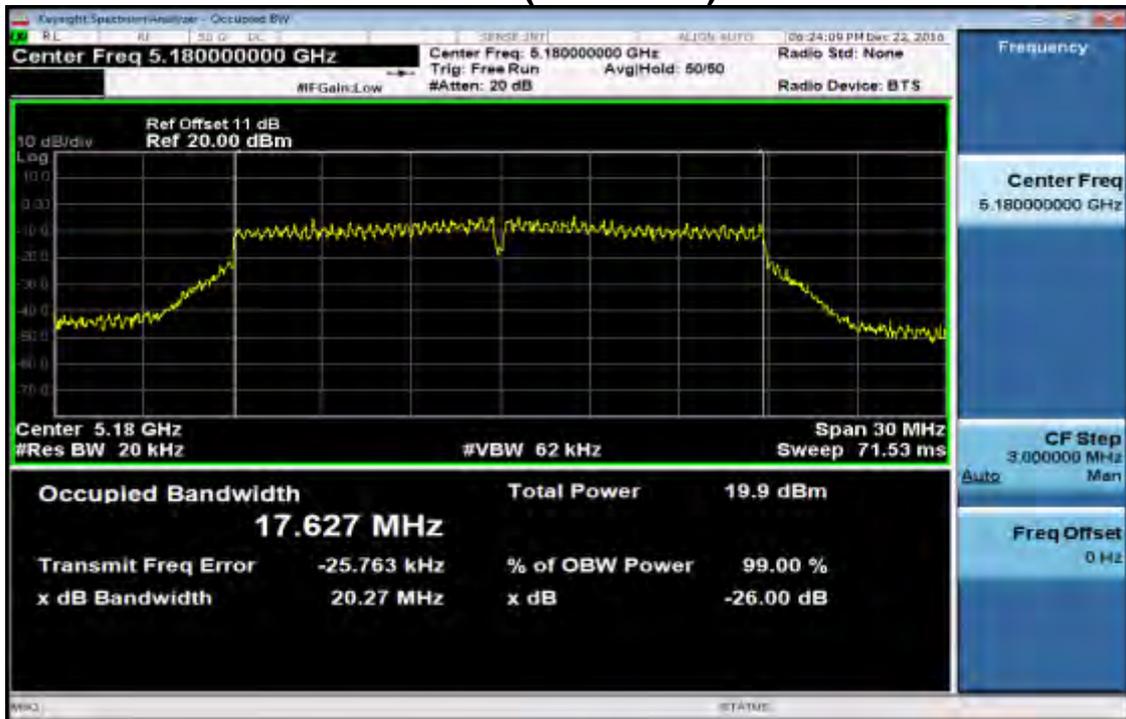
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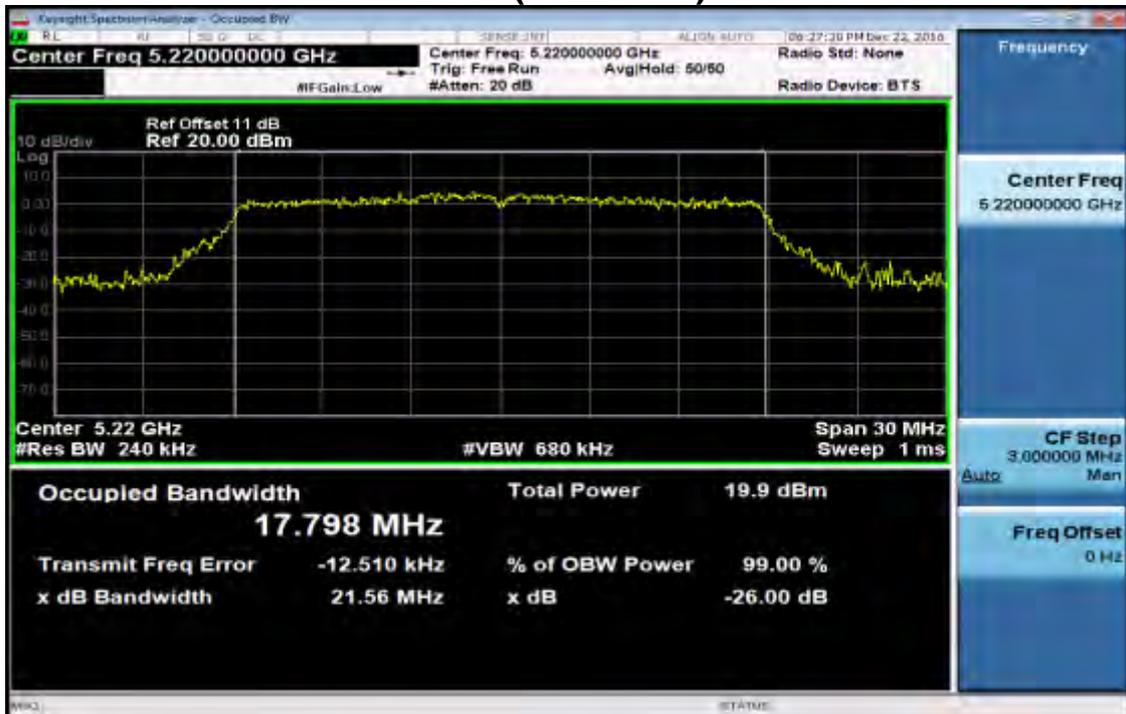
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### 802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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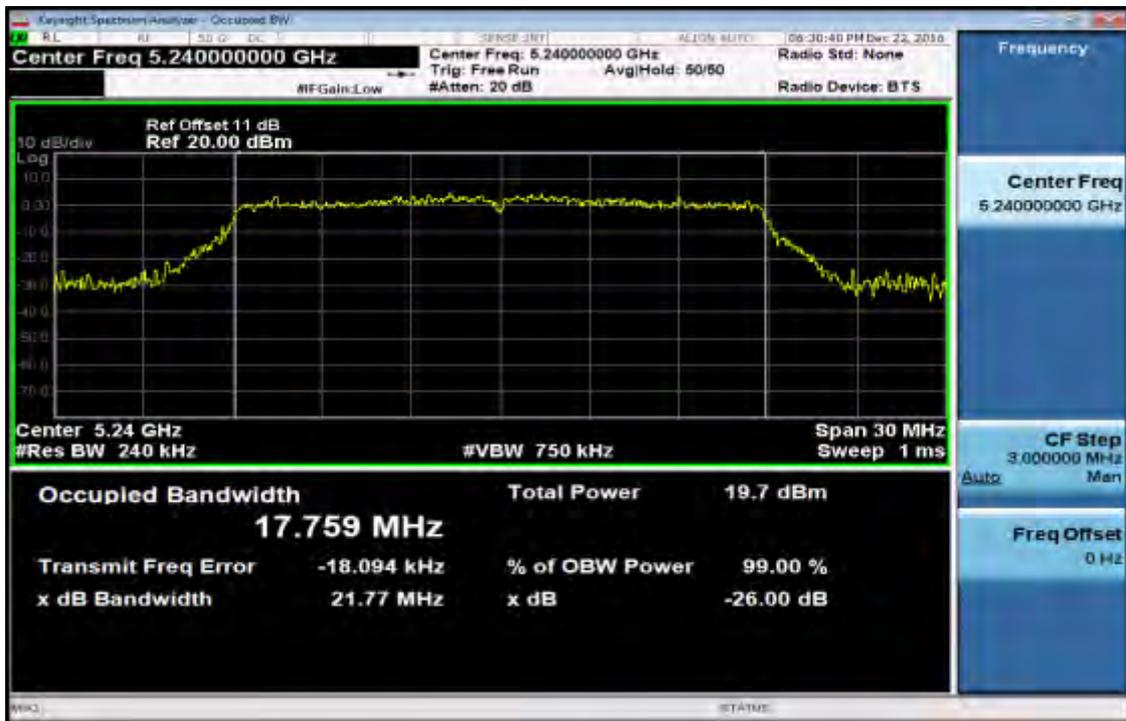
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### 26dB Band Width Test Data CH-High (5240 MHz)



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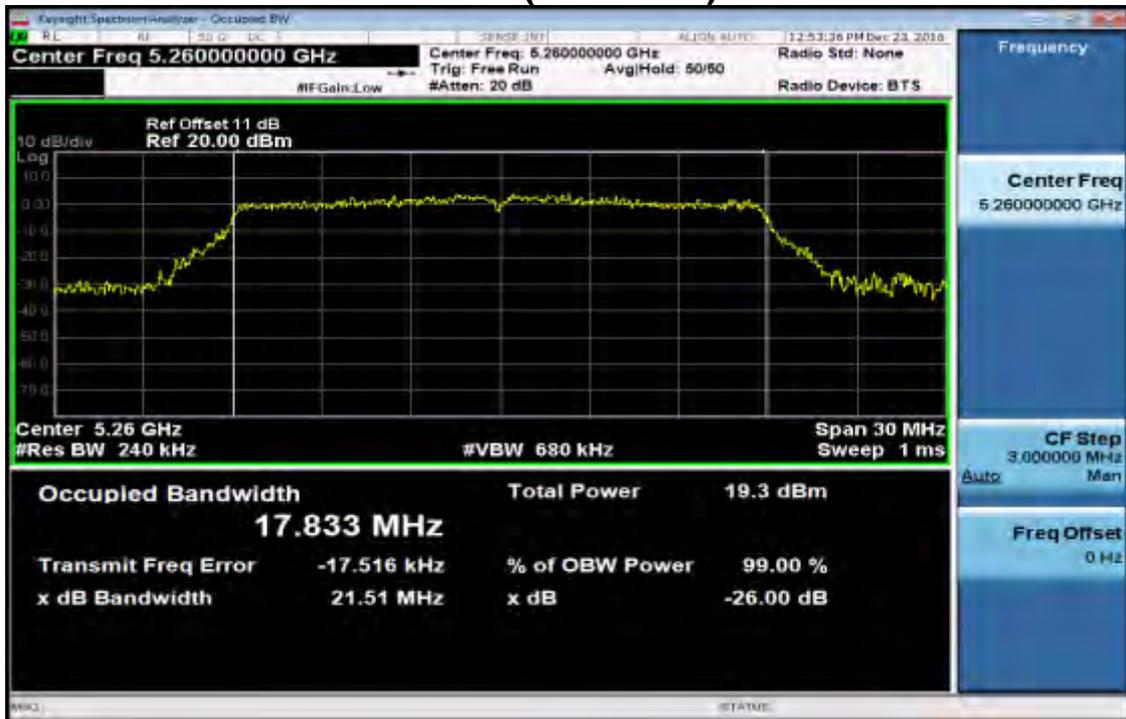
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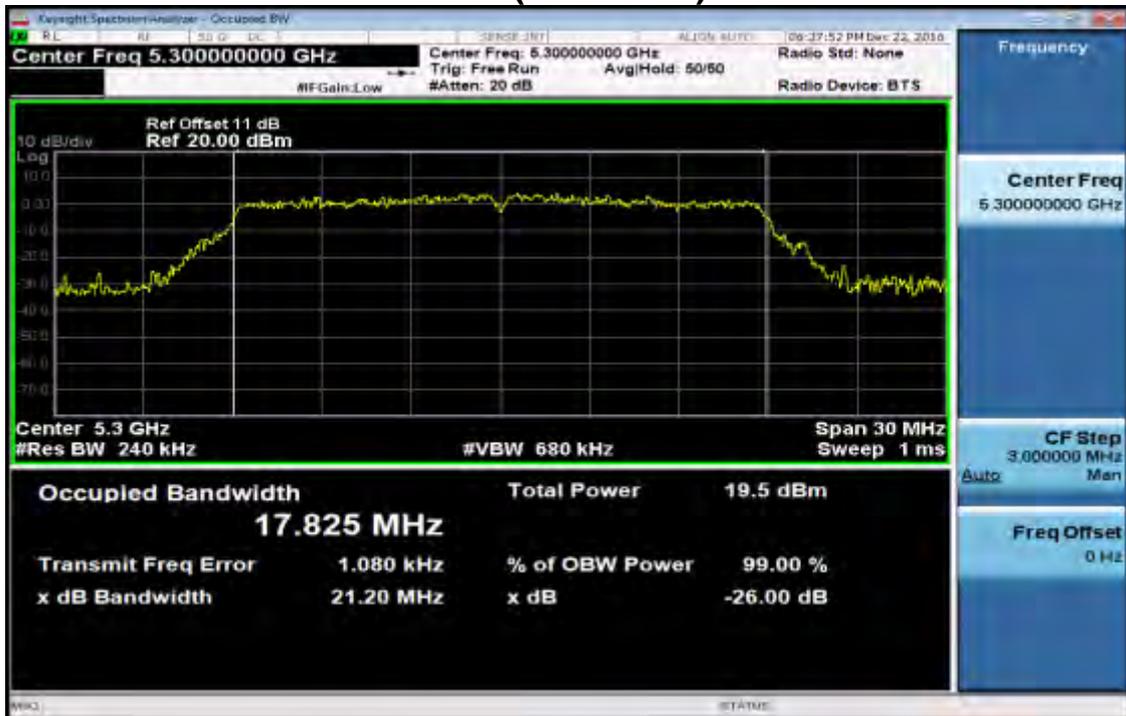
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**802.11n HT20, 5250~5350 MHz (Main)  
26dB Band Width Test Data CH-Low (5260 MHz)**



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



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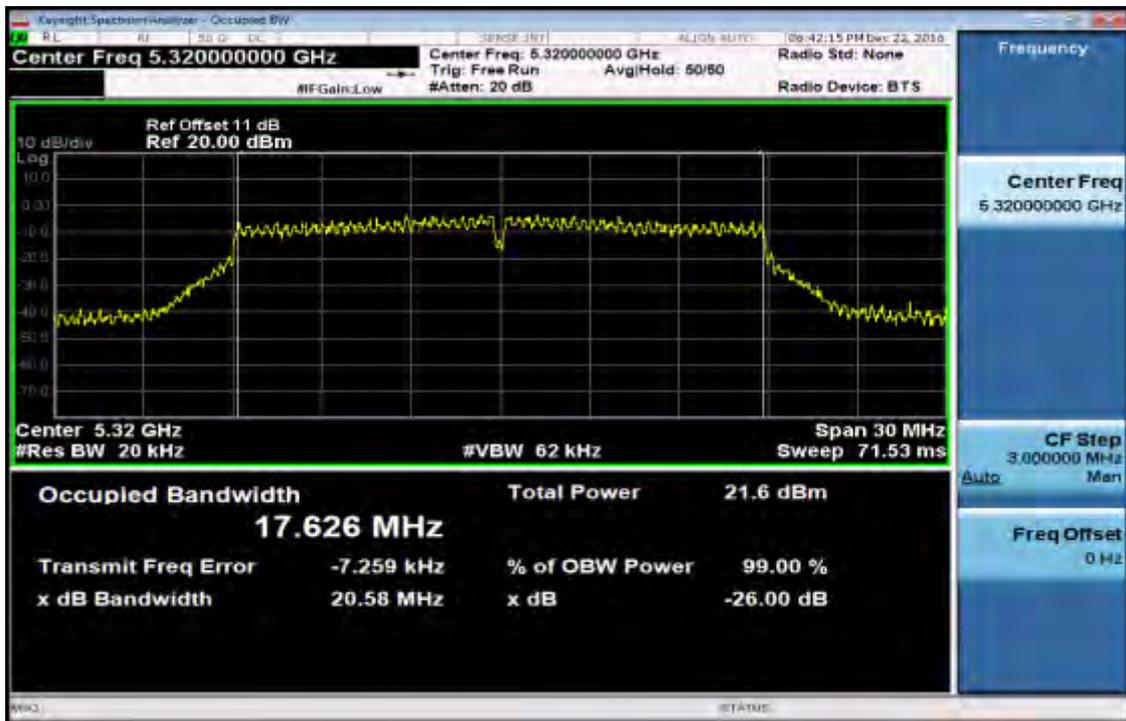
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### 26dB Band Width Test Data CH-High (5320 MHz)



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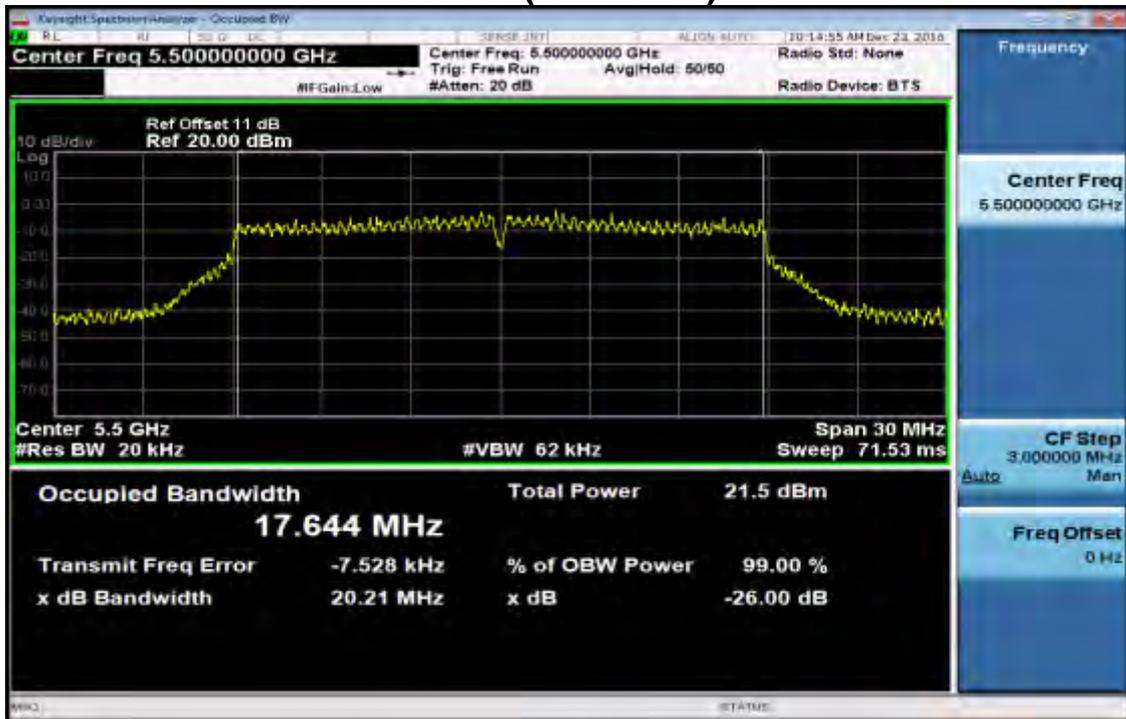
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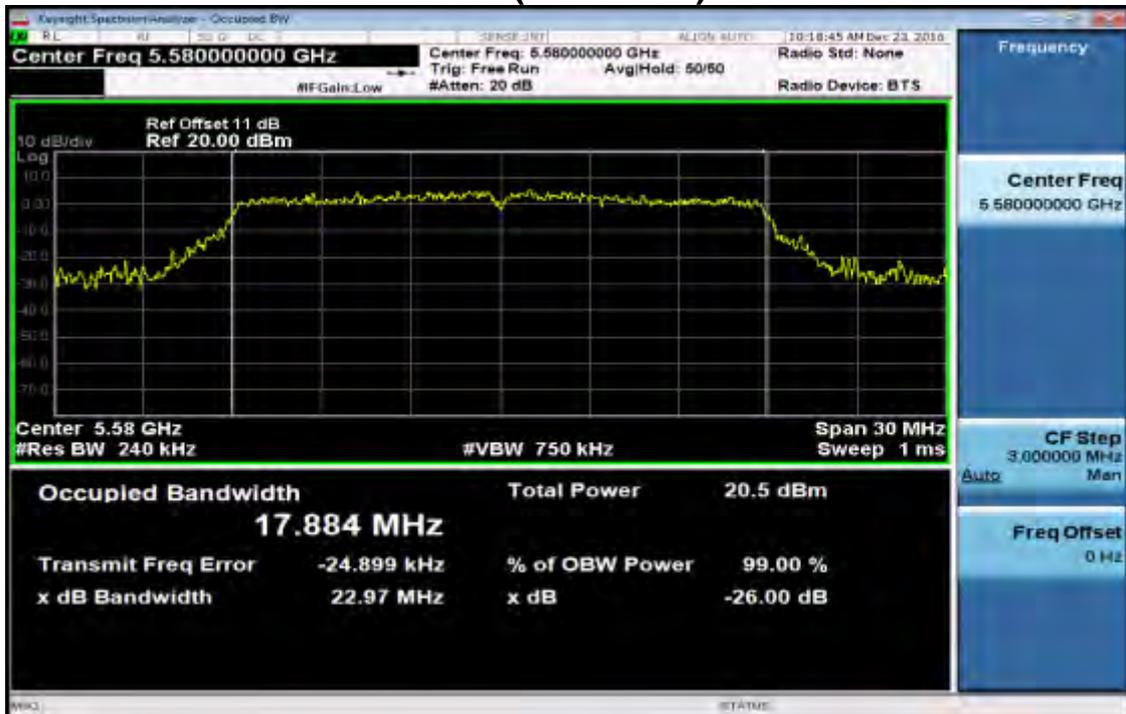
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**802.11n HT20, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5500 MHz)**



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



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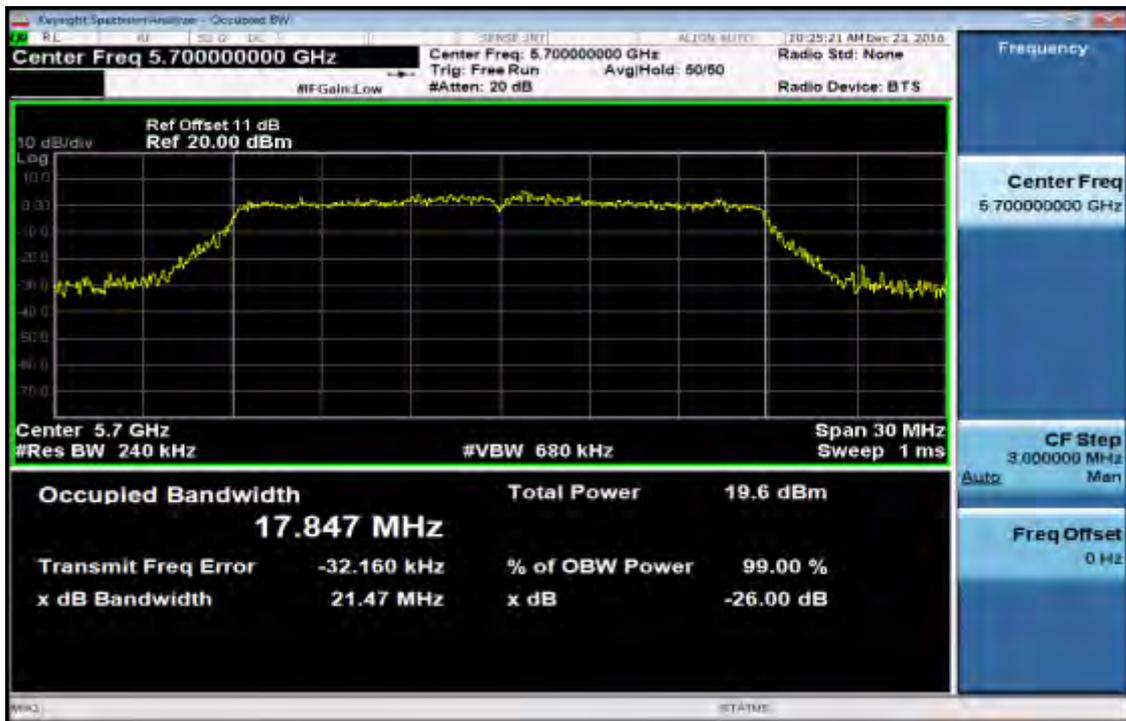
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### 26dB Band Width Test Data CH-High (5700 MHz)



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



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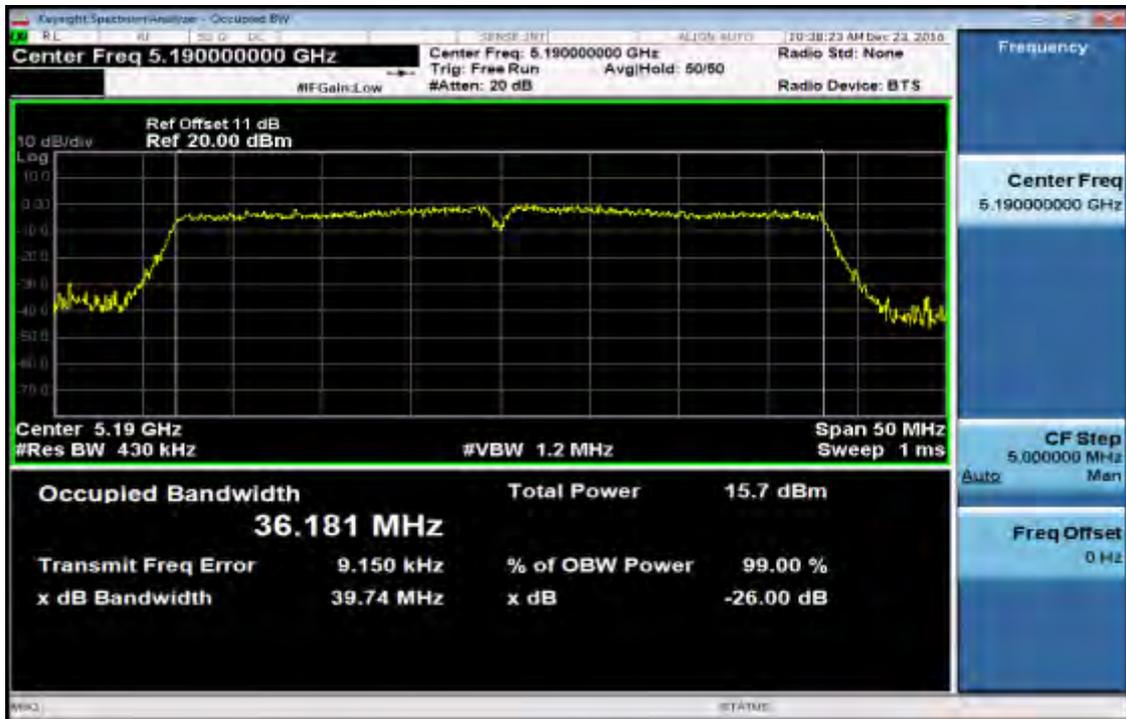
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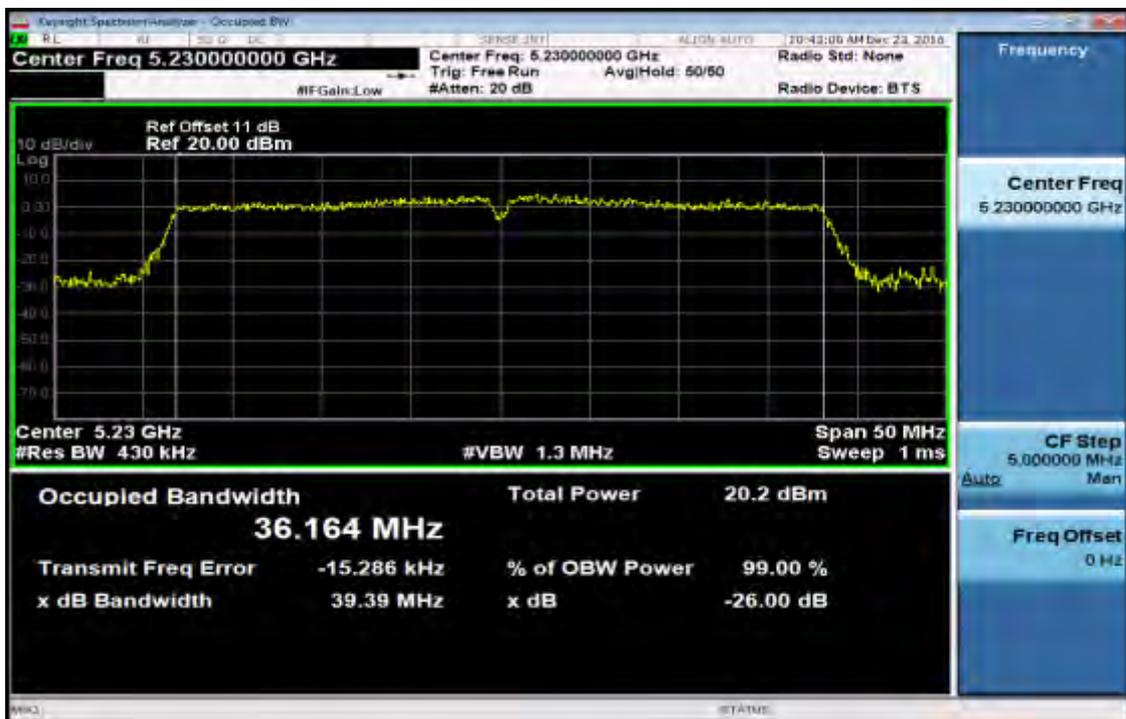
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### 802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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

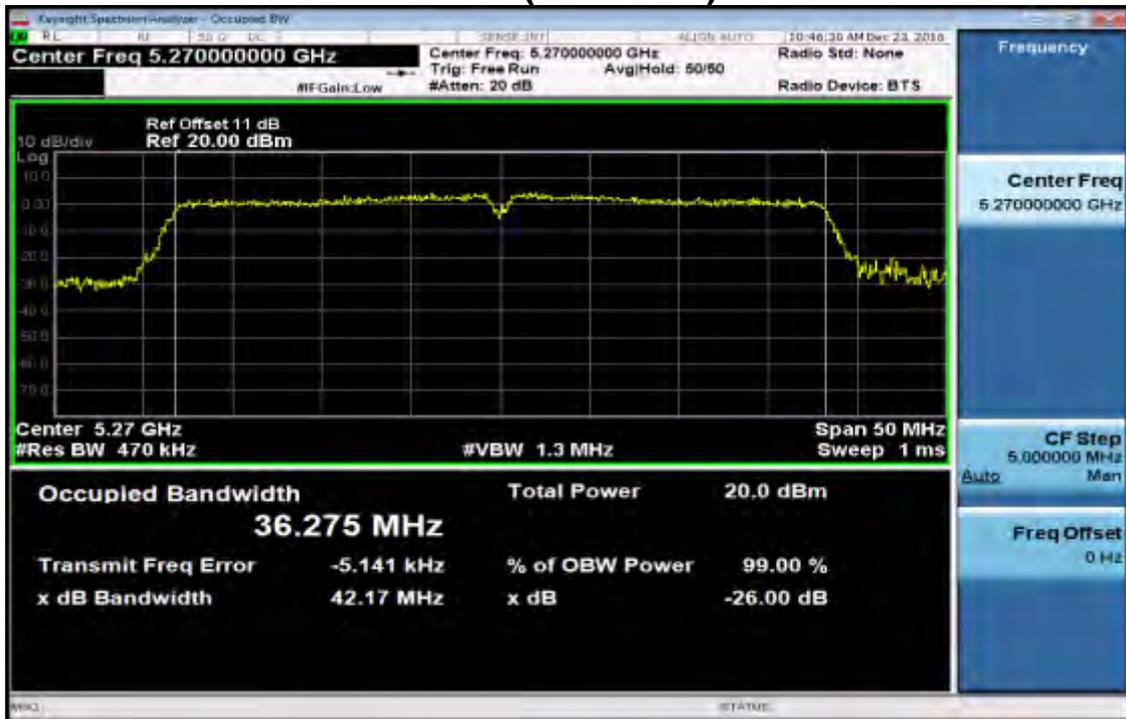


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**802.11n HT40, 5250~5350 MHz (Main)  
26dB Band Width Test Data CH-Low (5270 MHz)**



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



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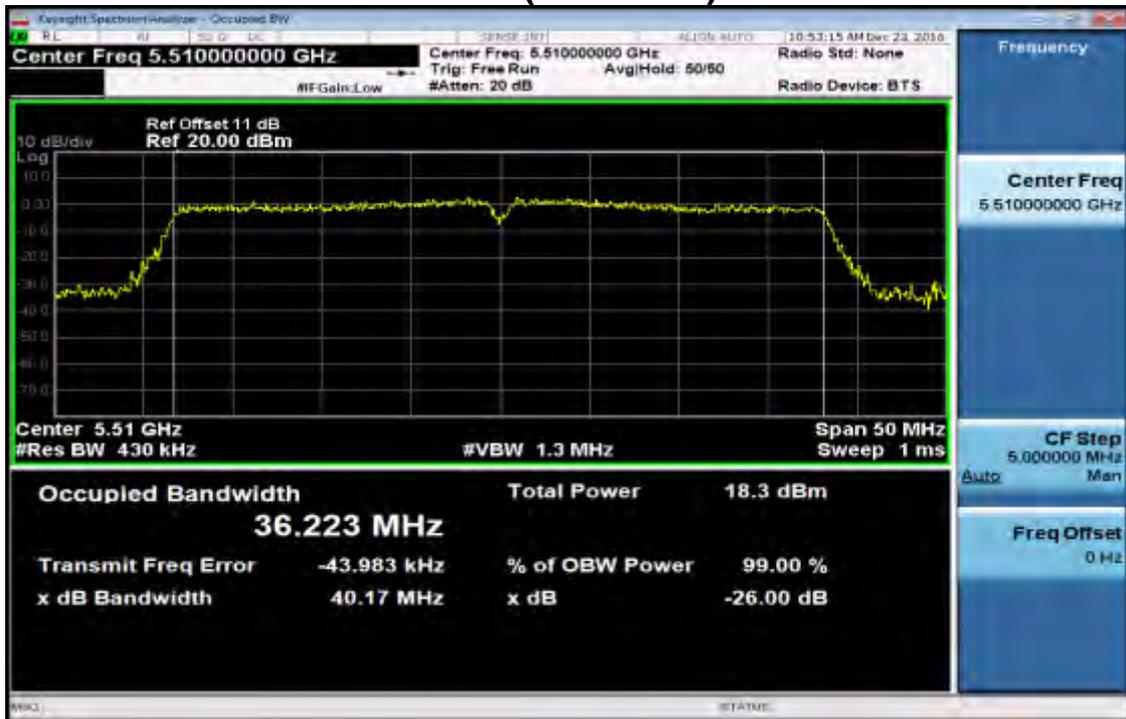
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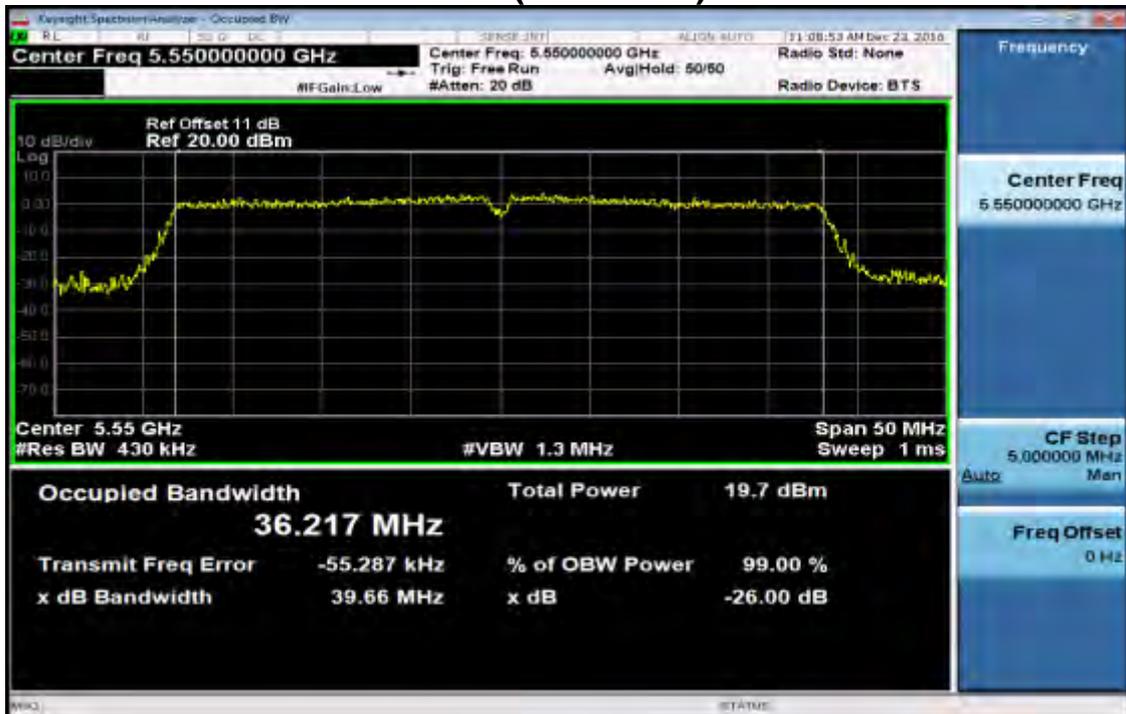
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**802.11n HT40, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5510 MHz)**



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



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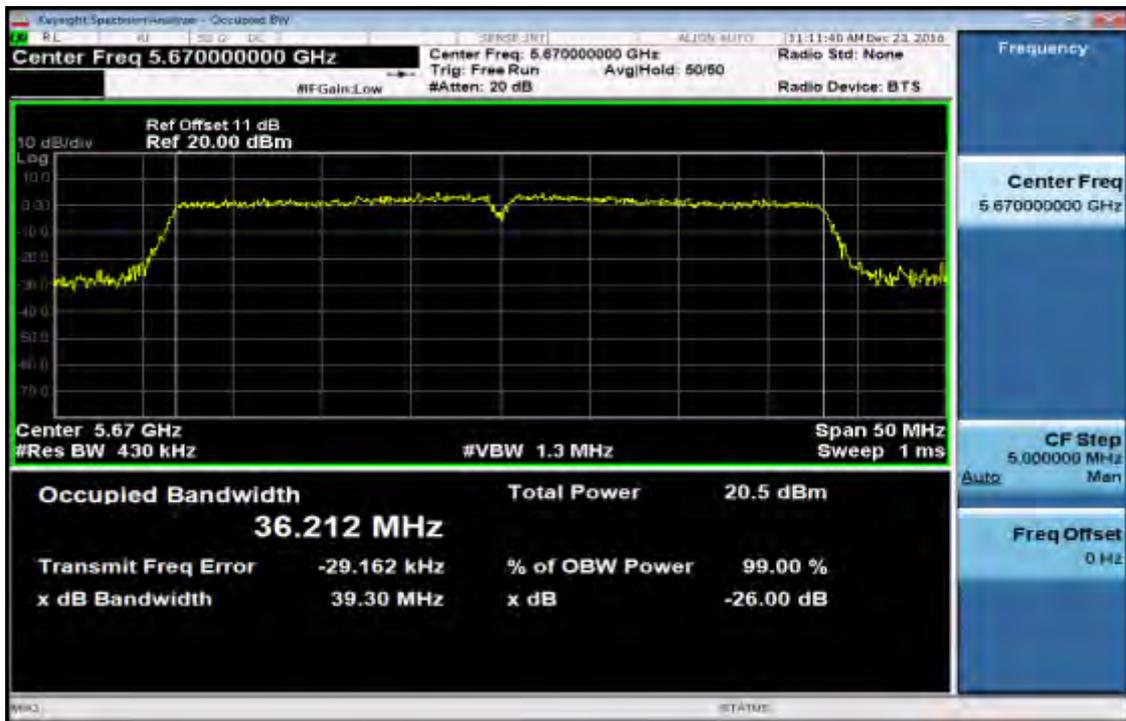
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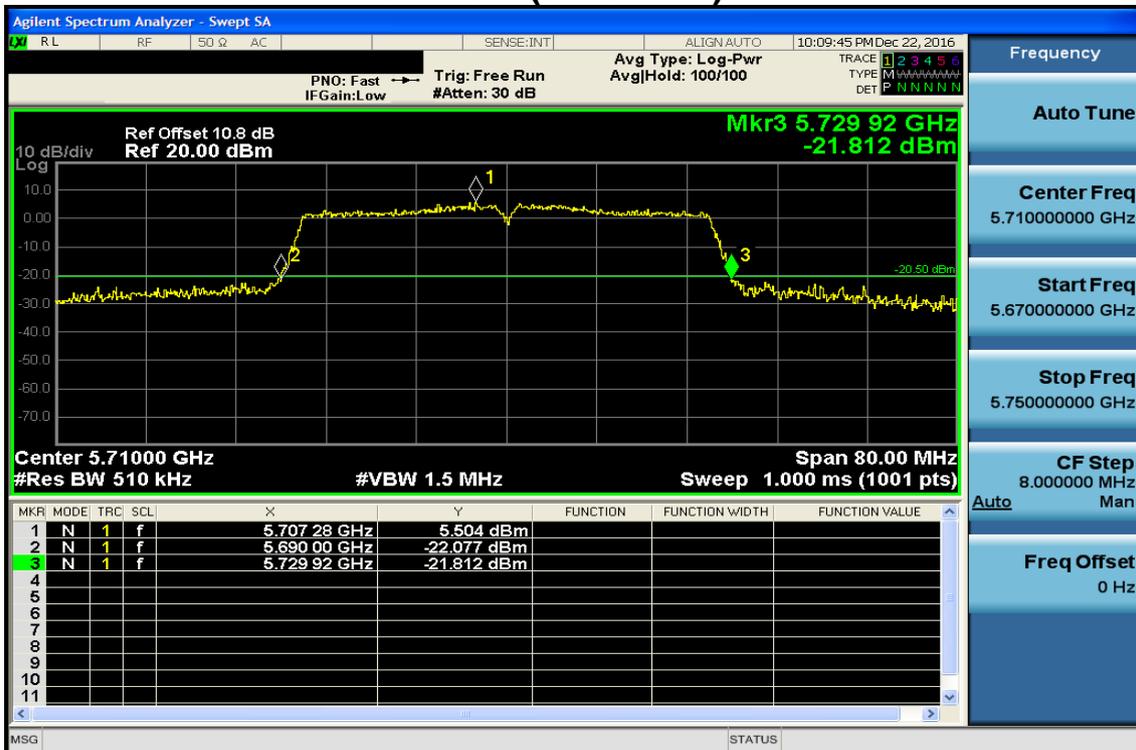
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### 26dB Band Width Test Data CH-High (5670 MHz)



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



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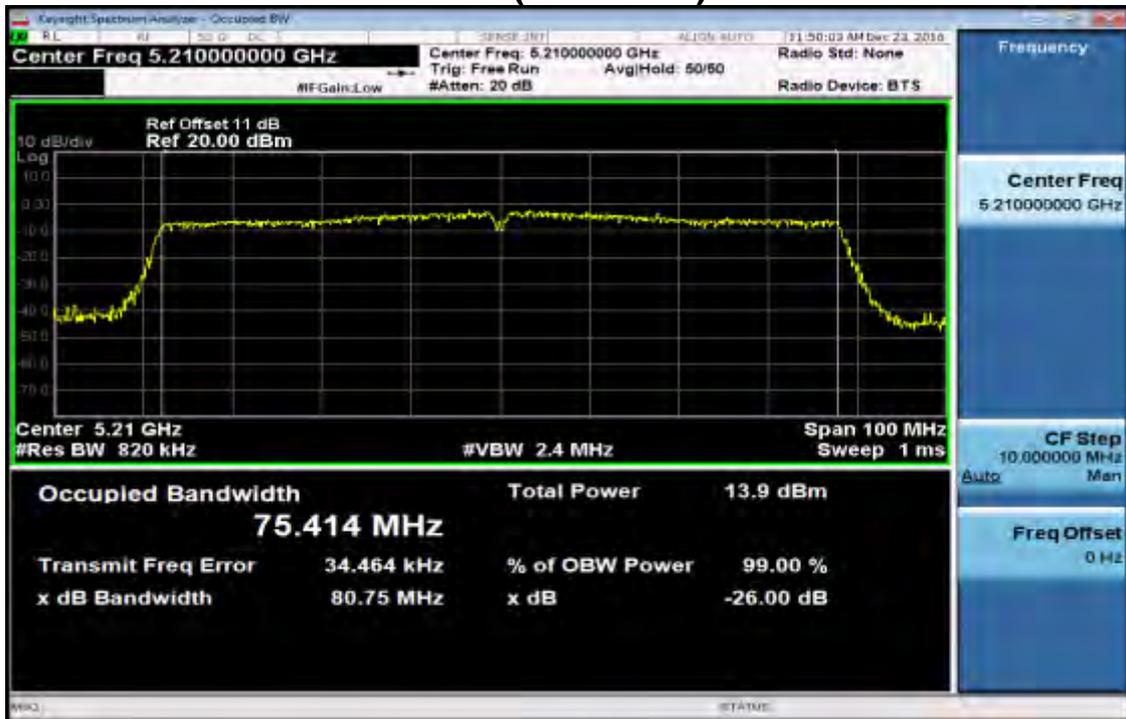
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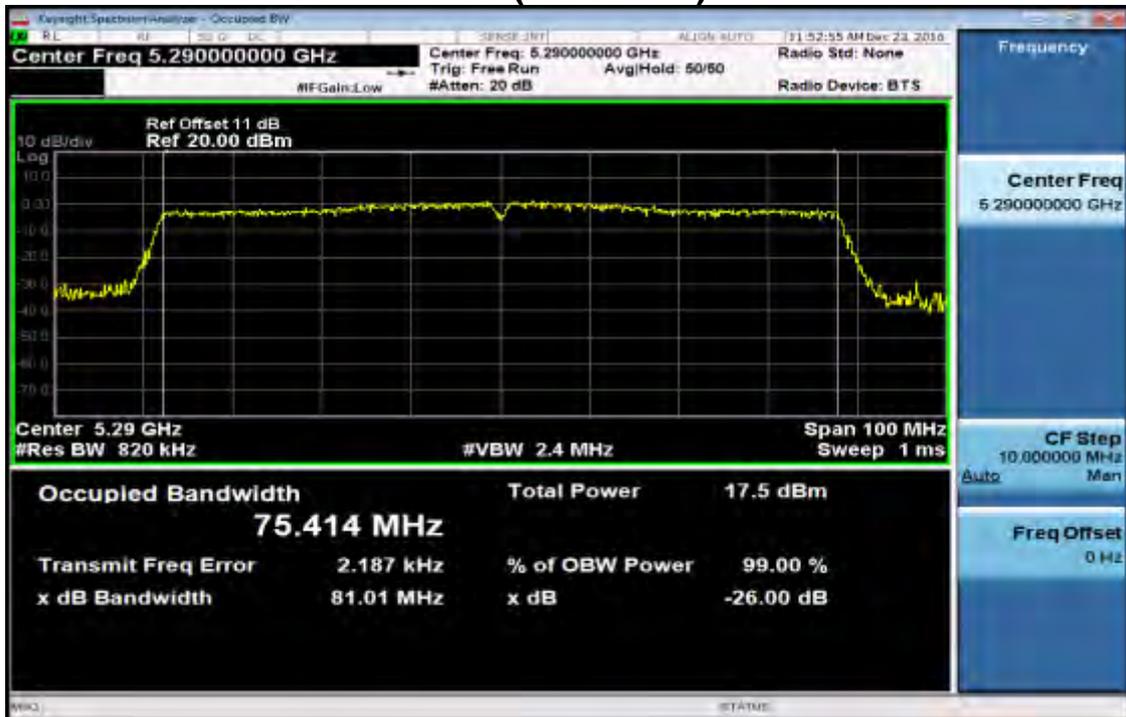
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**802.11ac VHT80, 5150~5250 MHz (Main)  
26dB Band Width Test Data CH-Mid (5210 MHz)**



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



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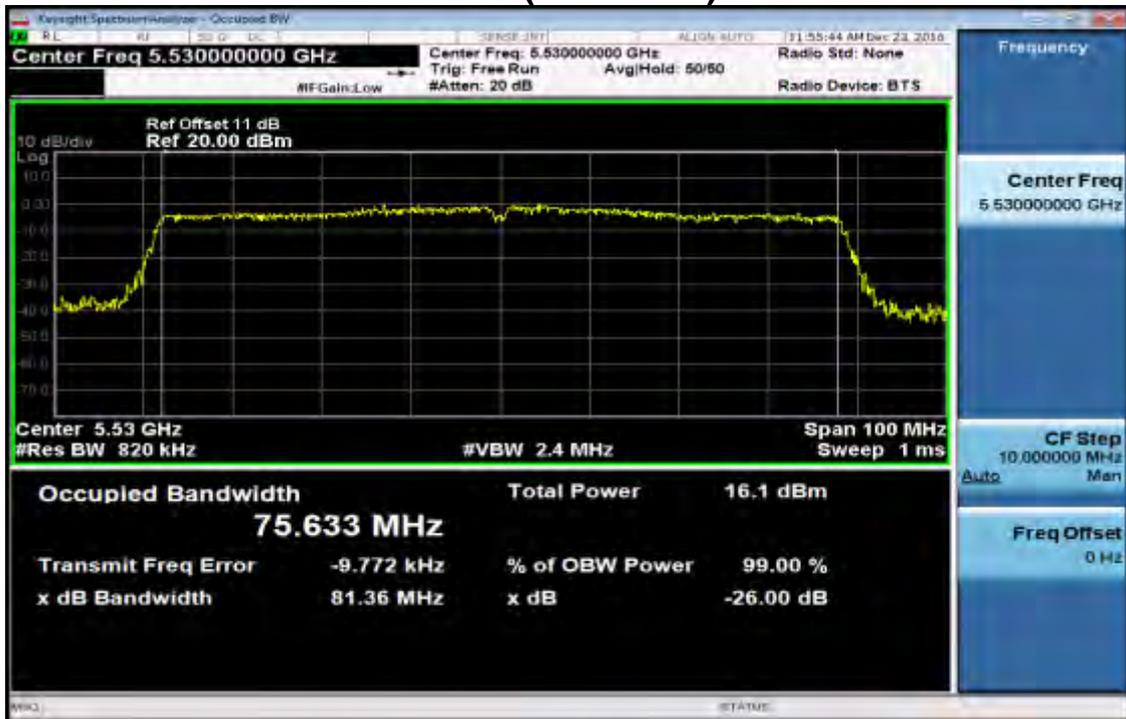
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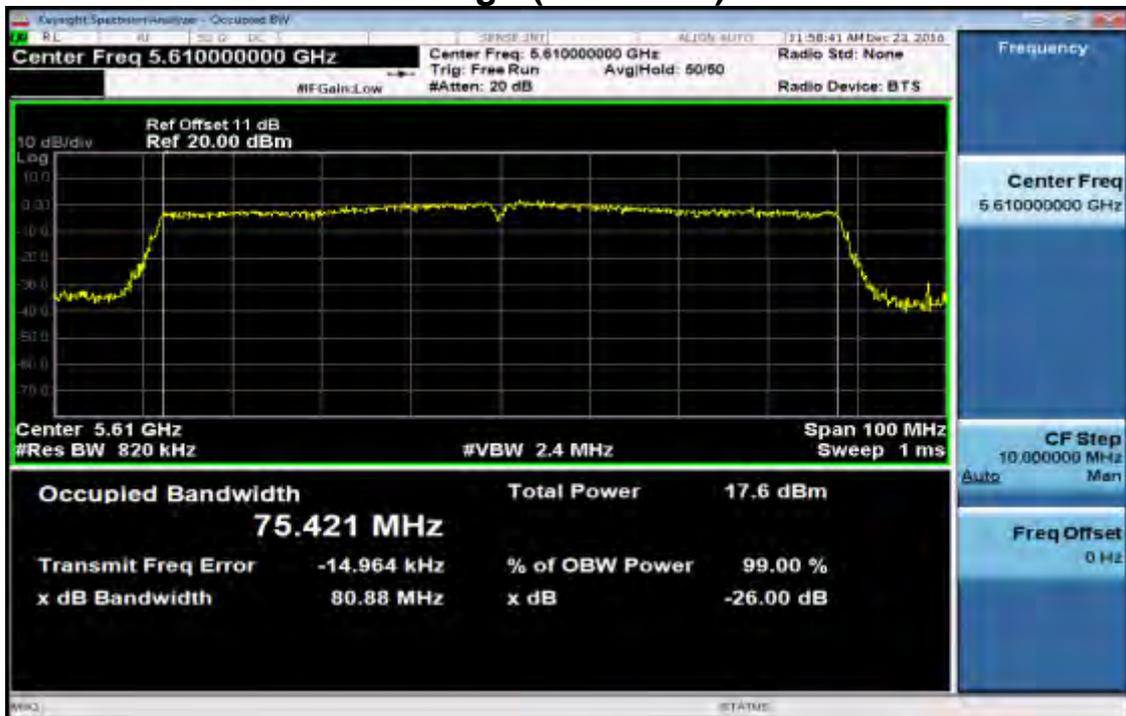
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**802.11ac VHT80, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5530 MHz)**



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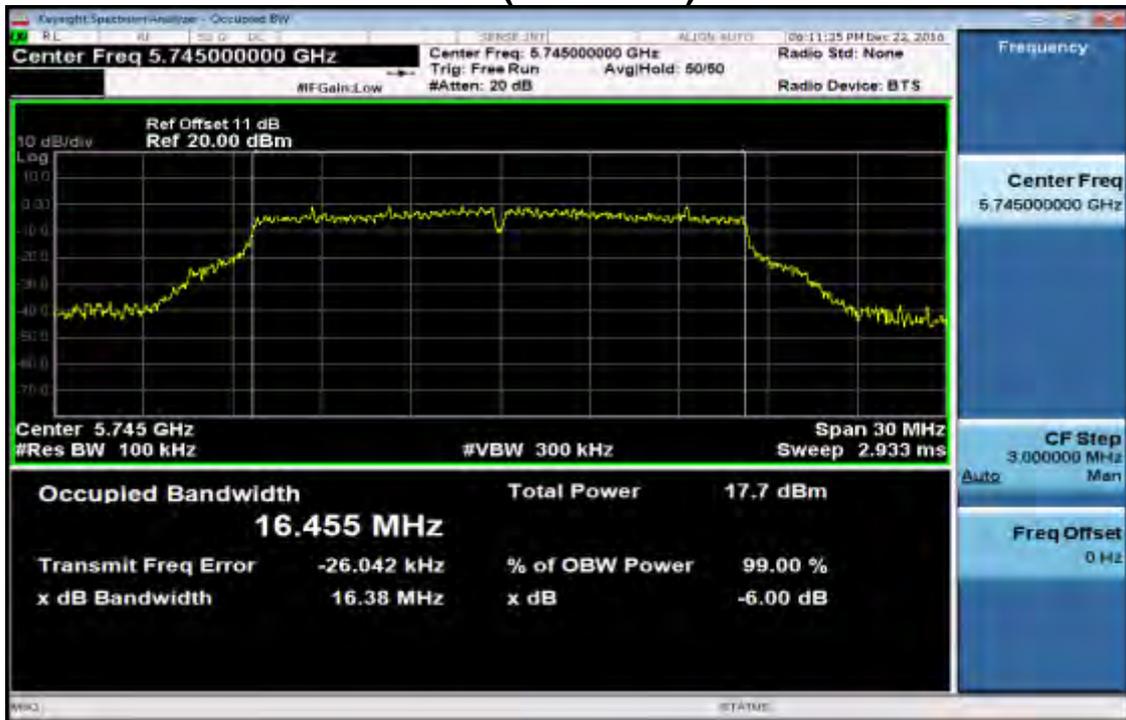
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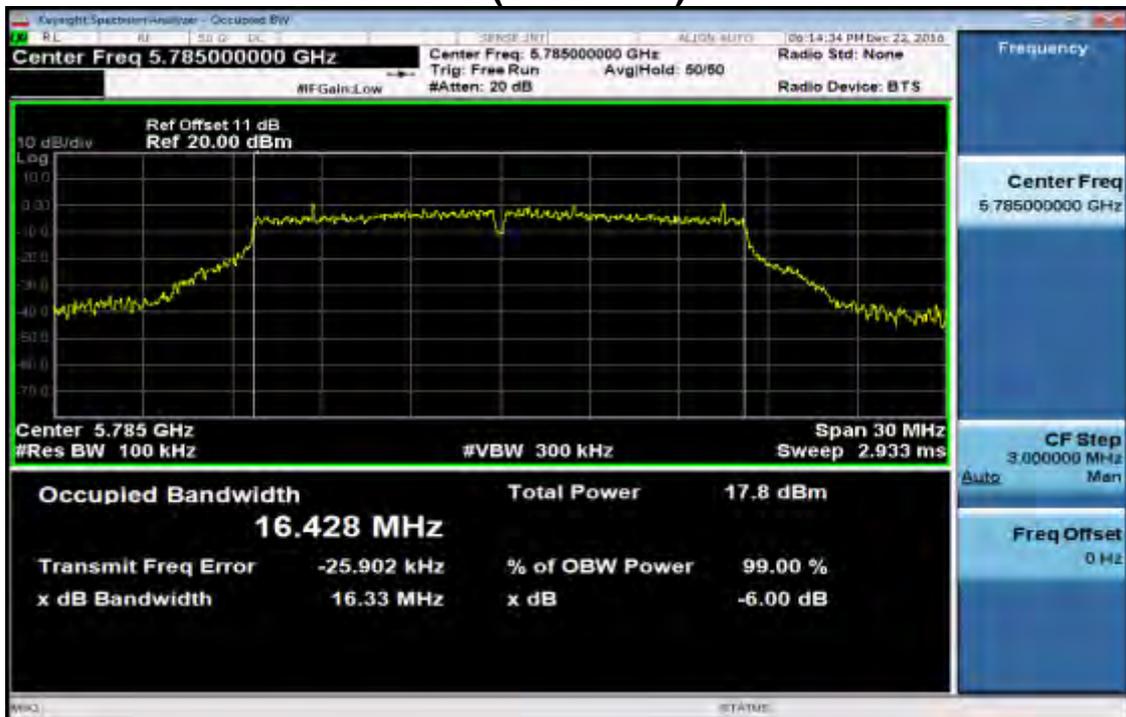
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**802.11a, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data CH-Low (5745 MHz)**



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



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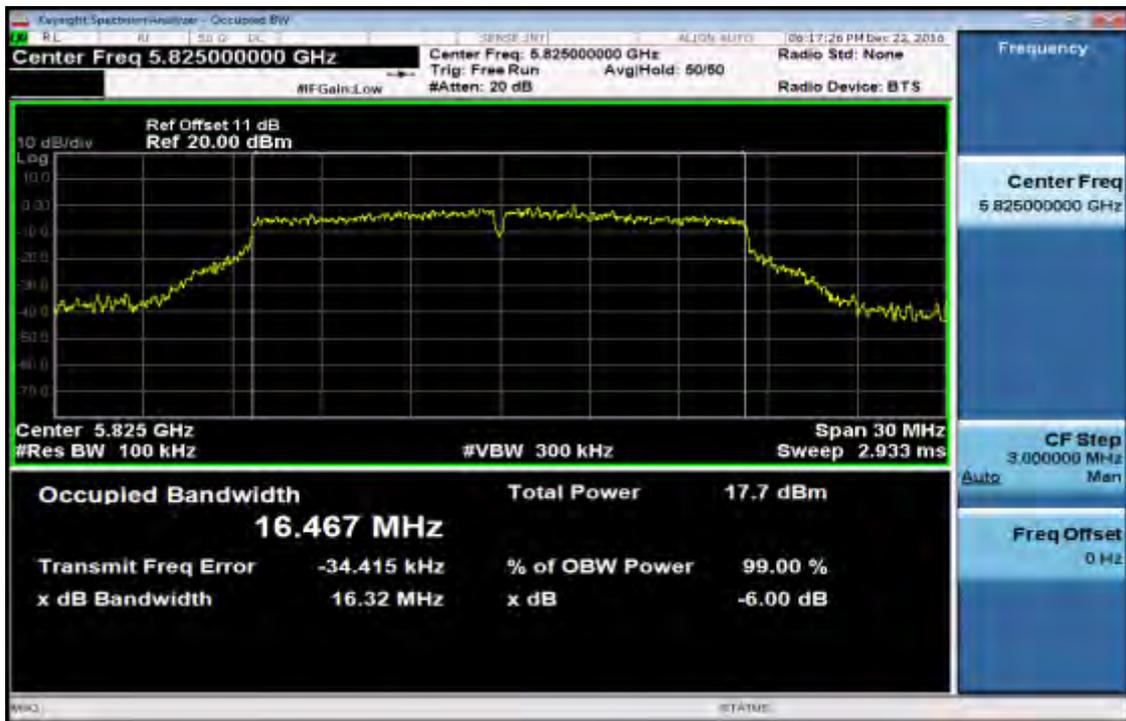
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### 6dB Band Width Test Data CH-High (5825 MHz)



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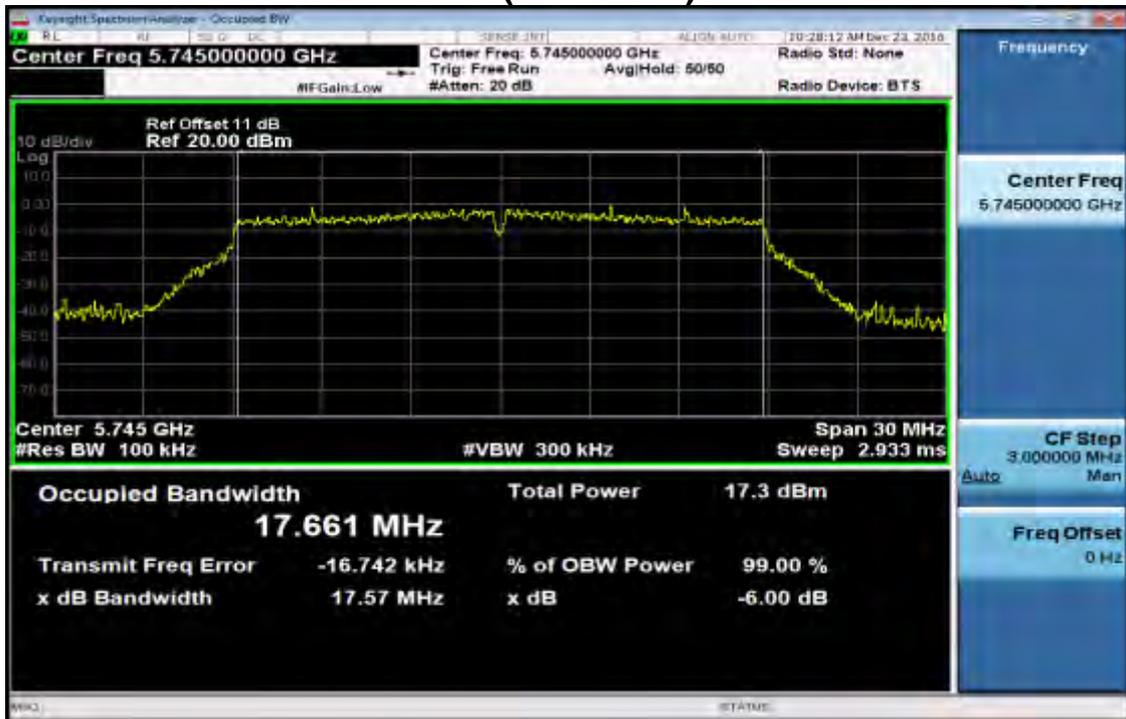
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**802.11n\_HT20, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data CH-Low (5745 MHz)**



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



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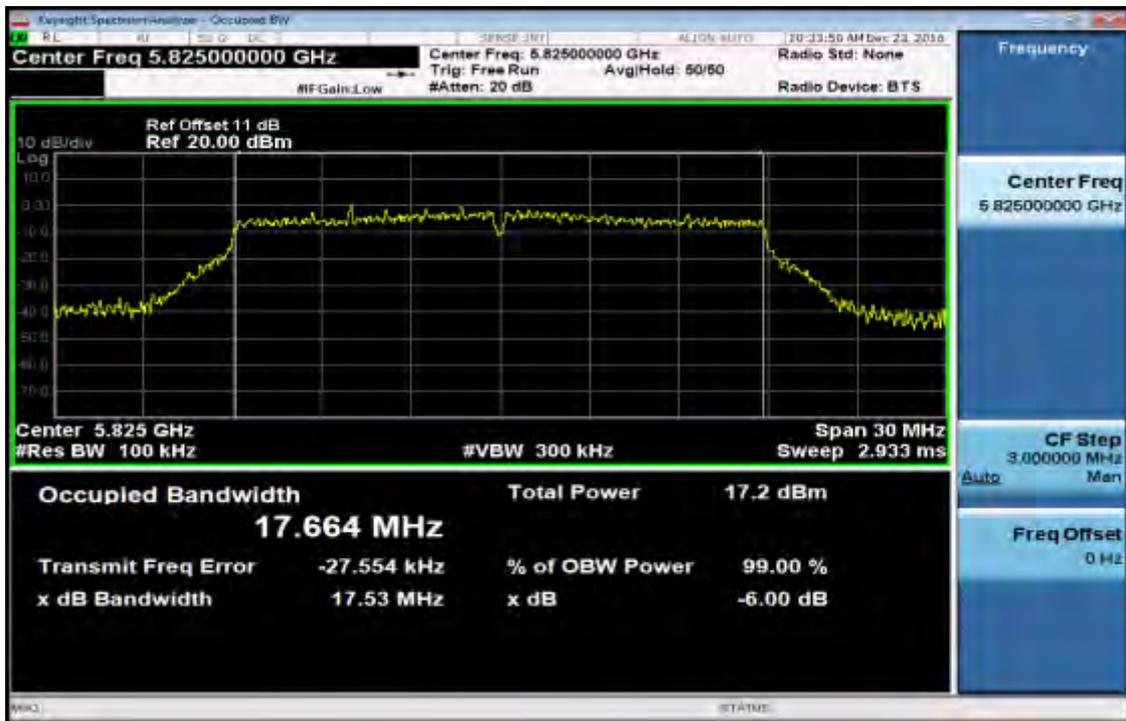
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### 6dB Band Width Test Data CH-High (5825 MHz)



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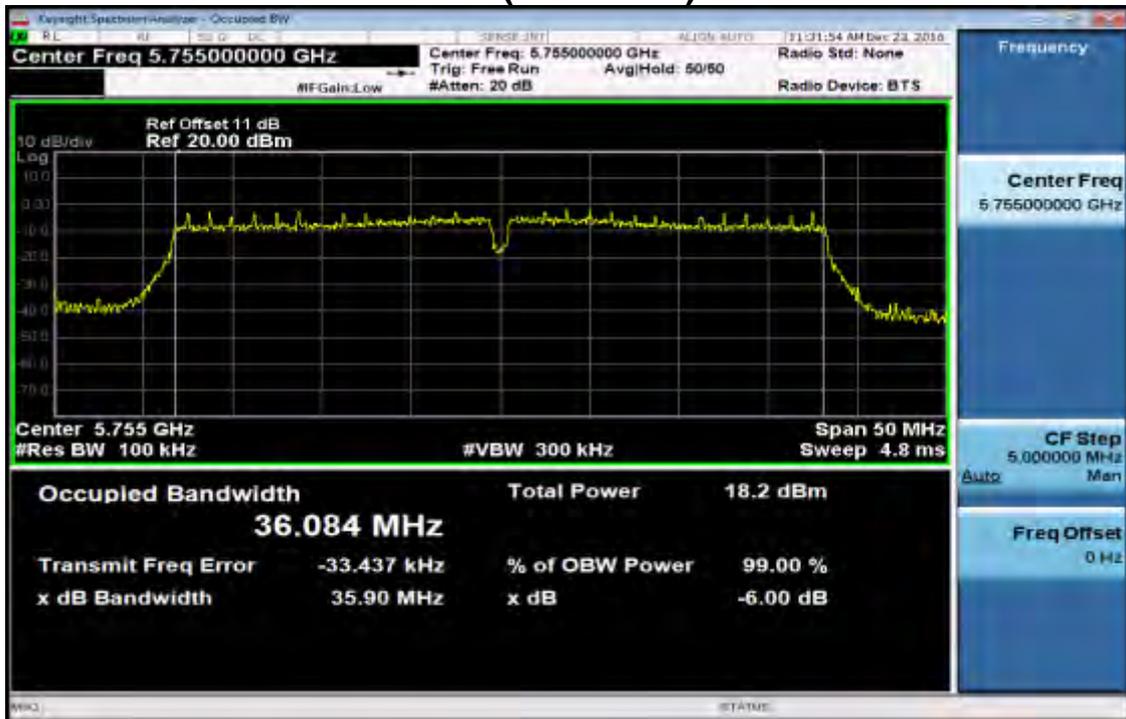
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**802.11n\_HT40, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5755 MHz)**



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



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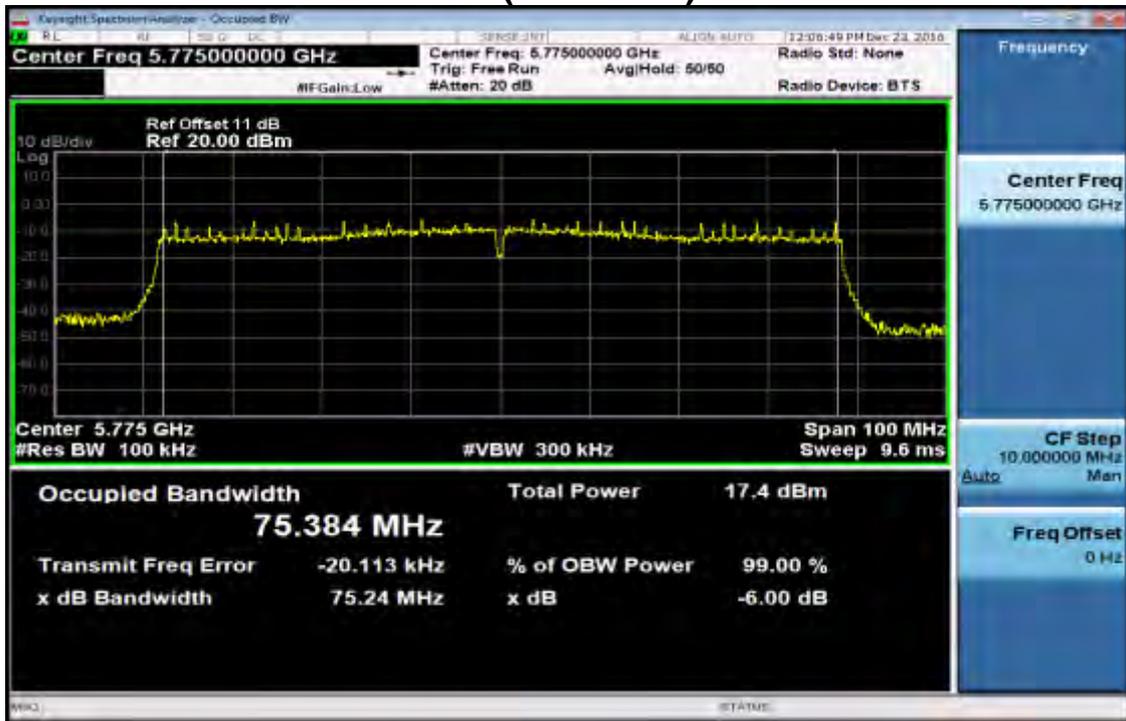
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802.11ac VHT80, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5775 MHz)



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

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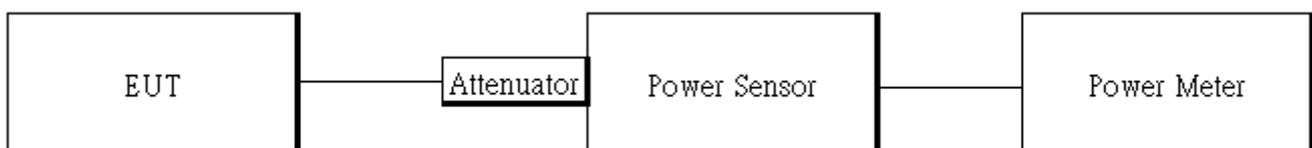
### 9.2 Measurement Procedure

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

### 9.3 Measurement Equipment Used

SGS Conducted Room					
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

### 9.4 Test Set-up



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## 9.5 Measurement Result

### Conducted output power

#### 802.11a\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.64	23.121	23.98	PASS
44	5220	MCS0	15.36	34.356	23.98	PASS
48	5240	MCS0	<b>15.41</b>	<b>34.754</b>	23.98	PASS
52	5260	MCS0	15.13	32.584	23.98 or $11+10\log(B) = 23.22$	PASS
60	5300	MCS0	<b>15.20</b>	<b>33.113</b>	23.98 or $11+10\log(B) = 23.21$	PASS
64	5320	MCS0	15.06	32.063	23.98 or $11+10\log(B) = 23.22$	PASS
100	5500	MCS0	15.17	32.885	23.98 or $11+10\log(B) = 23.22$	PASS
116	5580	MCS0	<b>16.25</b>	<b>42.170</b>	23.98 or $11+10\log(B) = 23.24$	PASS
140	5700	MCS0	15.32	34.041	23.98 or $11+10\log(B) = 23.22$	PASS
149	5745	MCS0	<b>13.52</b>	<b>22.491</b>	30	PASS
157	5785	MCS0	13.35	21.627	30	PASS
165	5825	MCS0	13.11	20.464	30	PASS

#### 802.11n\_HT20\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.34	21.577	23.98	PASS
44	5220	MCS0	<b>15.08</b>	<b>32.211</b>	23.98	PASS
48	5240	MCS0	14.98	31.477	23.98	PASS
52	5260	MCS0	14.81	30.269	23.98 or $11+10\log(B) = 24.33$	PASS
60	5300	MCS0	<b>14.84</b>	<b>30.479</b>	23.98 or $11+10\log(B) = 24.26$	PASS
64	5320	MCS0	14.70	29.512	23.98 or $11+10\log(B) = 24.13$	PASS
100	5500	MCS0	14.84	30.479	23.98 or $11+10\log(B) = 24.06$	PASS
116	5580	MCS0	<b>15.93</b>	<b>39.174</b>	23.98 or $11+10\log(B) = 24.61$	PASS
140	5700	MCS0	15.02	31.769	23.98 or $11+10\log(B) = 24.32$	PASS
144	5720 (U-NII 2C)	MCS0	11.64	14.581	23.98 or $11+10\log(B) = 23.00$	PASS
144	5720 (U-NII 3)	MCS0	4.23	2.650	30	PASS
149	5745	MCS0	12.92	19.588	30	PASS
157	5785	MCS0	<b>13.02</b>	<b>20.045</b>	30	PASS
165	5825	MCS0	12.77	18.923	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	10.19	10.447	23.98	PASS
46	5230	MCS0	<b>14.46</b>	<b>27.925</b>	23.98	PASS
54	5270	MCS0	<b>14.69</b>	<b>29.444</b>	23.98 or $11+10\log(B) = 27.25$	PASS
62	5310	MCS0	11.68	14.723	23.98 or $11+10\log(B) = 26.94$	PASS
102	5510	MCS0	13.18	20.797	23.98 or $11+10\log(B) = 27.04$	PASS
110	5550	MCS0	14.69	29.444	23.98 or $11+10\log(B) = 26.98$	PASS
134	5670	MCS0	<b>14.86</b>	<b>30.620</b>	23.98 or $11+10\log(B) = 26.94$	PASS
142	5710(U-NII 2C)	MCS0	12.88	19.409	23.98 or $11+10\log(B) = 26.44$	PASS
142	5710(U-NII 3)	MCS0	1.81	1.517	30	PASS
151	5755	MCS0	<b>12.84</b>	<b>19.231</b>	30	PASS
159	5795	MCS0	12.74	18.793	30	PASS

802.11ac\_VHT80\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	7.06	5.082	23.98	PASS
58	5290	MCS0	10.73	11.830	23.98 or $11+10\log(B) = 30.09$	PASS
106	5530	MCS0	9.08	8.091	23.98 or $11+10\log(B) = 30.10$	PASS
122	5610	MCS0	10.01	10.023	23.98 or $11+10\log(B) = 30.08$	PASS
138	5690(U-NII 2C)	MCS0	10.78	11.967	23.98 or $11+10\log(B) = 29.76$	PASS
138	5690(U-NII 3)	MCS0	0.75	1.189	30	PASS
155	5775	MCS0	11.22	13.243	30	PASS

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

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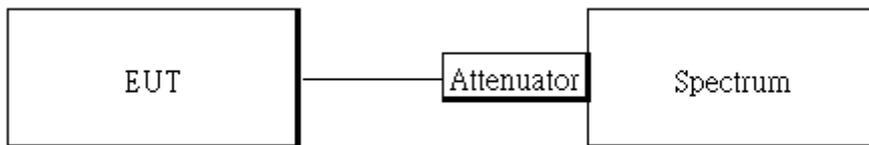
### 10.2 Measurement Procedure

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

### 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

### 10.4 Test Set-up



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## 10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	2.08	11	-8.92
5220	3.97	11	-7.03
5240	4.01	11	-6.99
5260	4.01	11	-6.99
5300	3.84	11	-7.16
5320	3.64	11	-7.36
5500	4.04	11	-6.96
5580	4.77	11	-6.23
5700	4.62	11	-6.38
5745	6.50	30	-23.50
5785	6.50	30	-23.50
5825	6.38	30	-23.62

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	2.17	11	-8.83
5220	3.97	11	-7.03
5240	3.59	11	-7.41
5260	3.40	11	-7.60
5300	3.80	11	-7.20
5320	3.53	11	-7.47
5500	3.58	11	-7.42
5580	3.18	11	-7.82
5700	4.22	11	-6.78
5710(U-NII 2C)	3.53	11	-7.47
5710 (U-NII 3)	0.18	30	-29.82
5745	6.20	30	-23.80
5785	5.22	30	-24.78
5825	4.81	30	-25.19

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POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-4.63	11	-15.63
5230	0.51	11	-10.49
5270	0.44	11	-10.56
5310	-3.38	11	-14.38
5510	-2.97	11	-13.97
5550	-0.48	11	-11.48
5670	1.27	11	-9.73
5710 (U-NII 2C)	-0.95	11	-11.95
5710 (U-NII 3)	-3.64	30	-33.64
5755	2.73	30	-27.27
5795	2.11	30	-27.89

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.25	11	-21.25
5290	-6.26	11	-17.26
5530	-7.62	11	-18.62
5610	-6.07	11	-17.07
5690 (U-NII 2C)	-6.81	11	-17.81
5690 (U-NII 3)	-10.62	30	-40.62
5775	-0.94	30	-30.94

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



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



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



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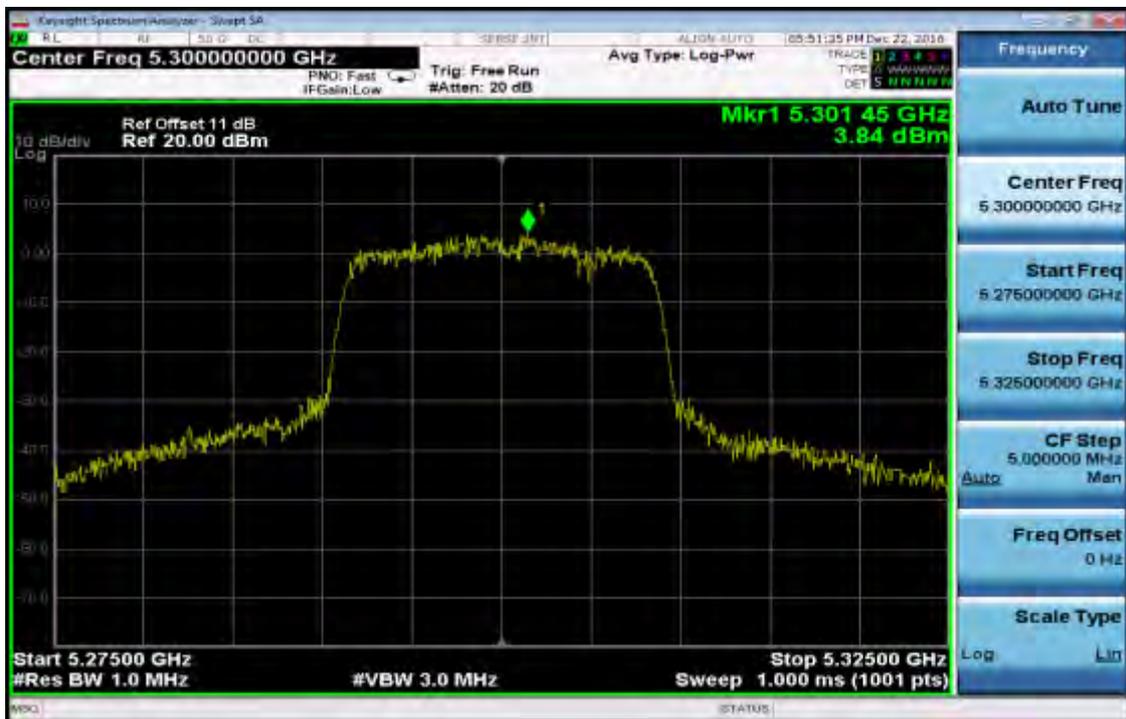
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**802.11a 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260 MHz)**



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



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



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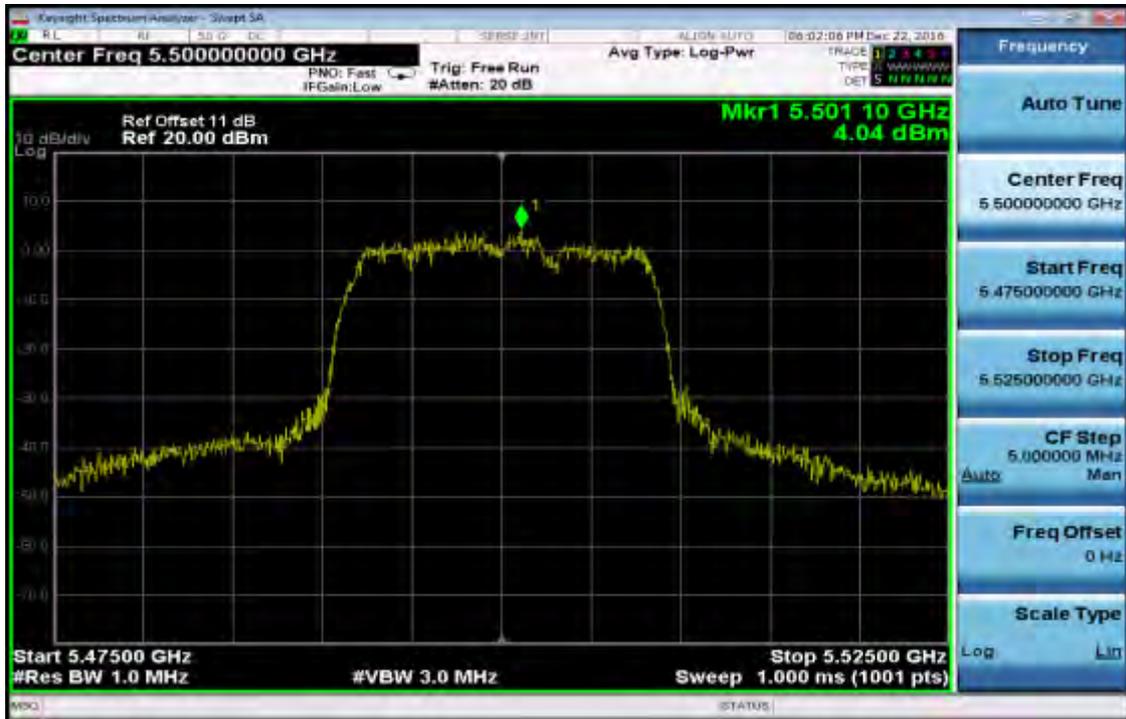
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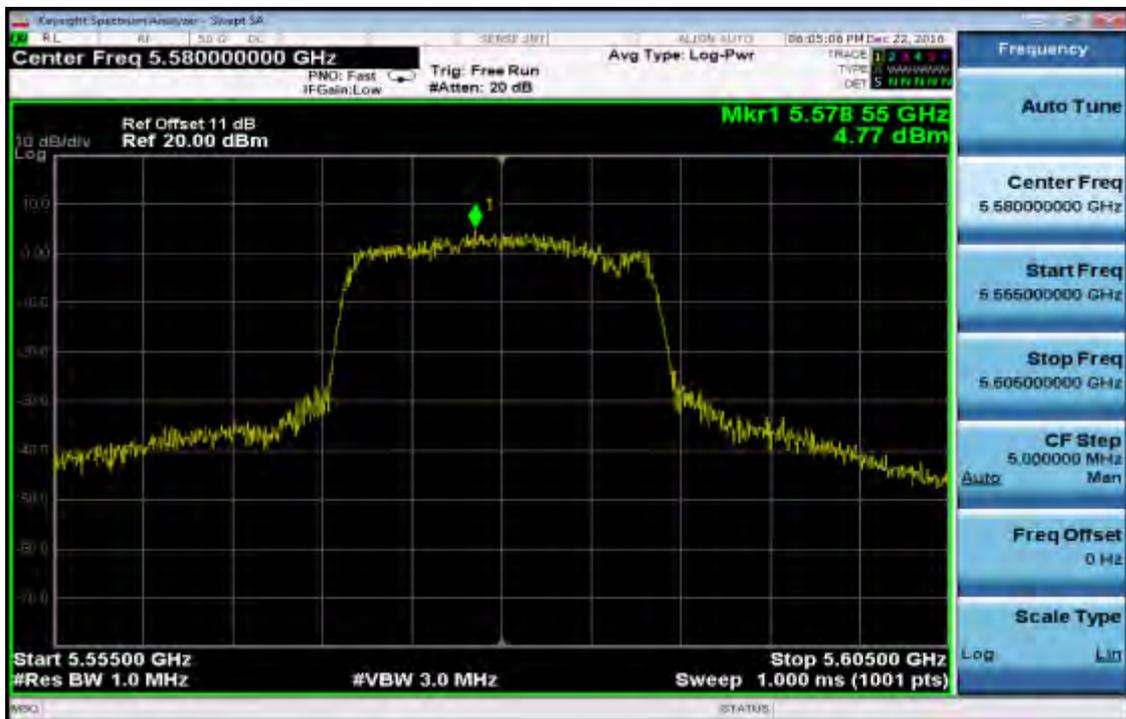
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**802.11a 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)**



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



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



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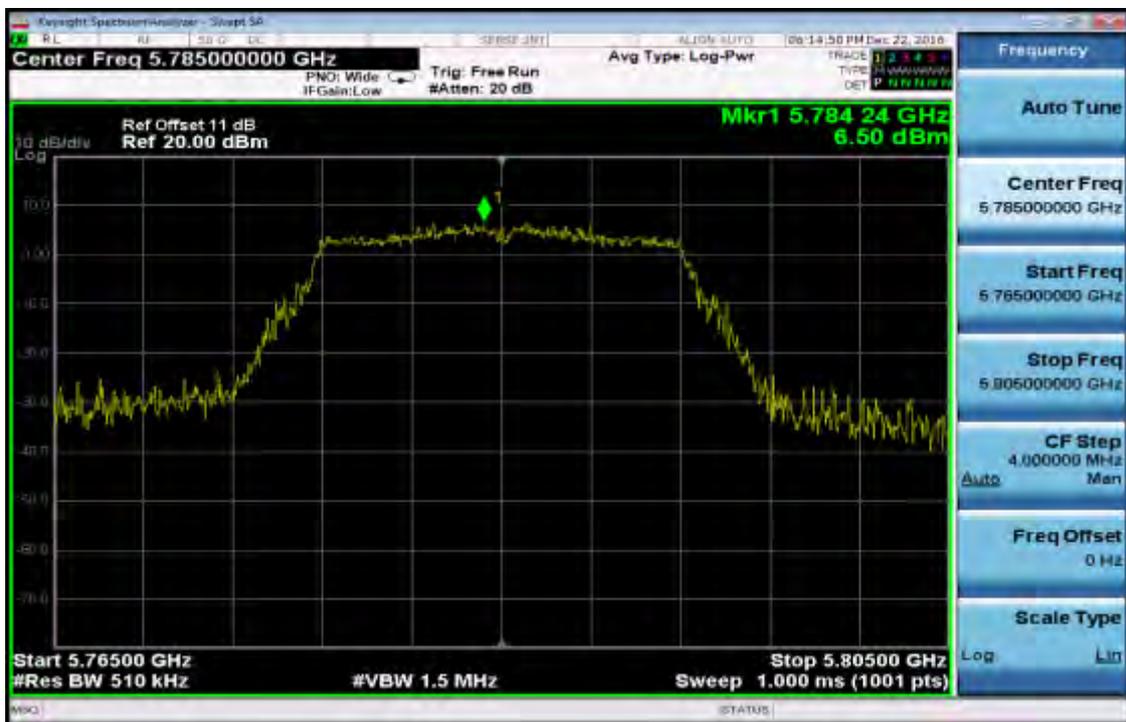
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802.11a 5725~5850 MHz  
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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



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



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



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



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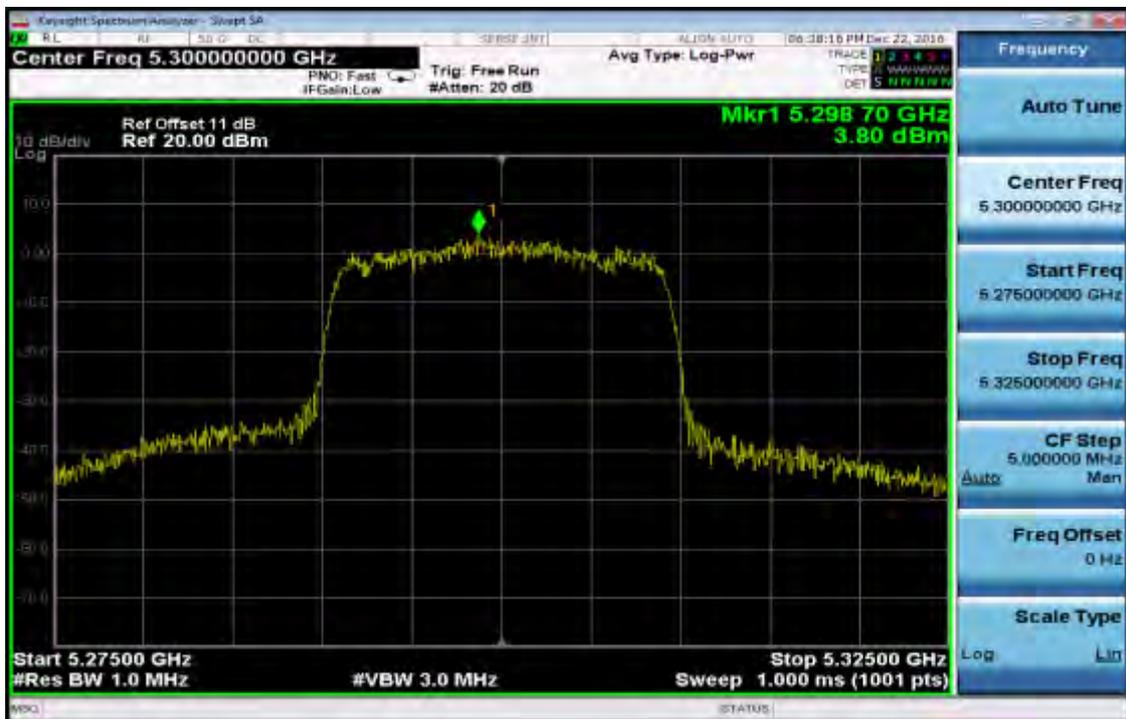
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**802.11n HT20, 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260MHz)**



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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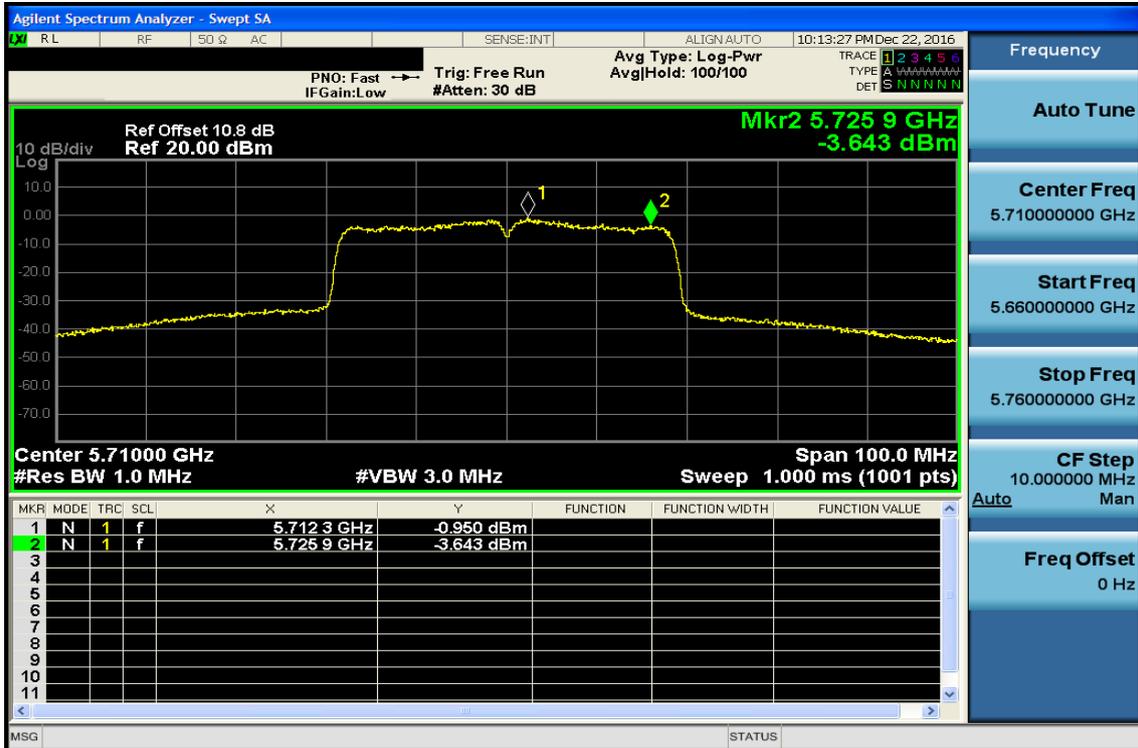
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### Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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



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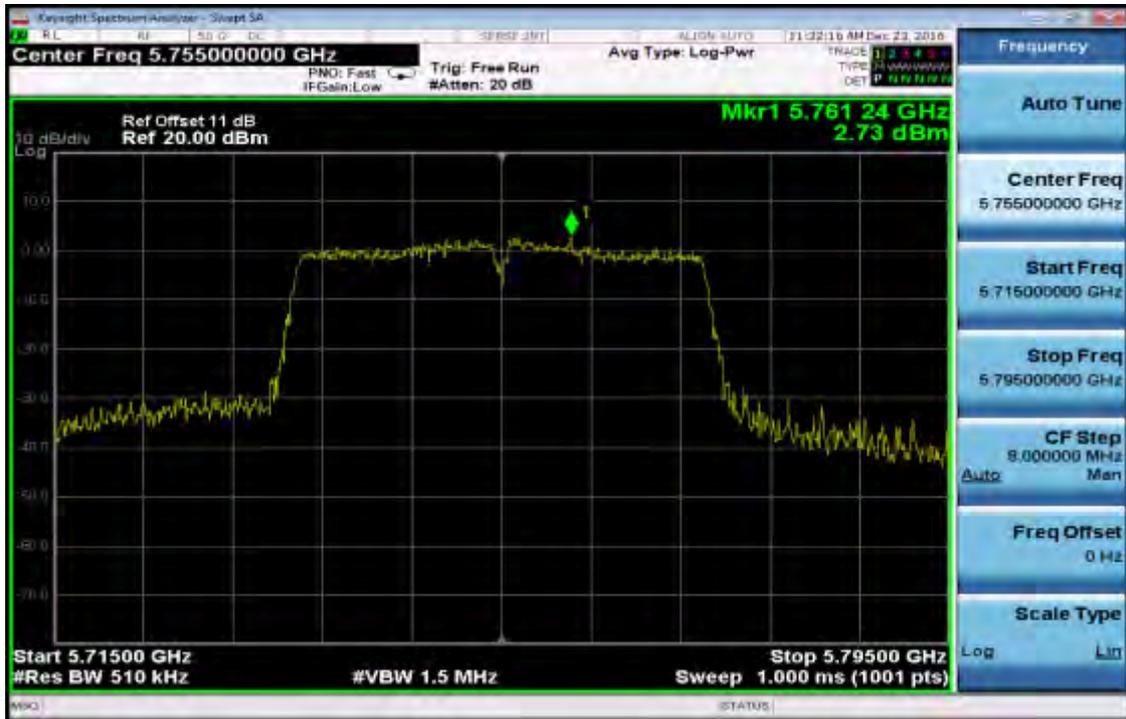
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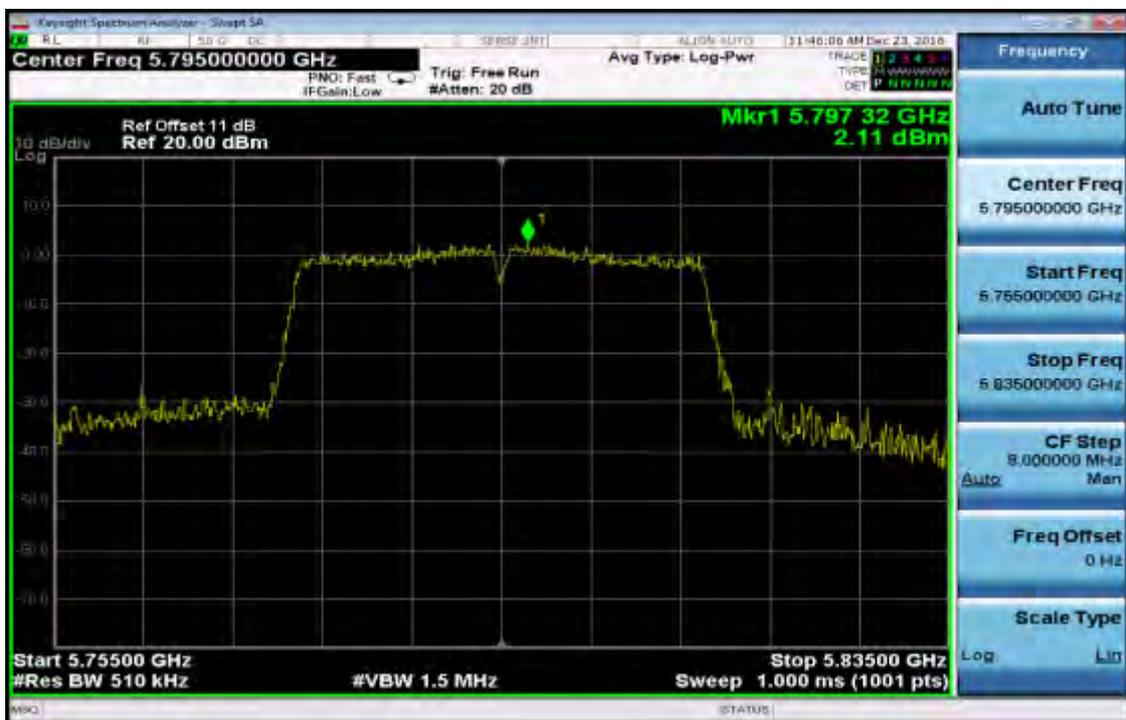
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**802.11n HT40, 5725~5850 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5755 MHz)**



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



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



### 802.11ac VHT80, 5250~5350 MHz

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



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



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



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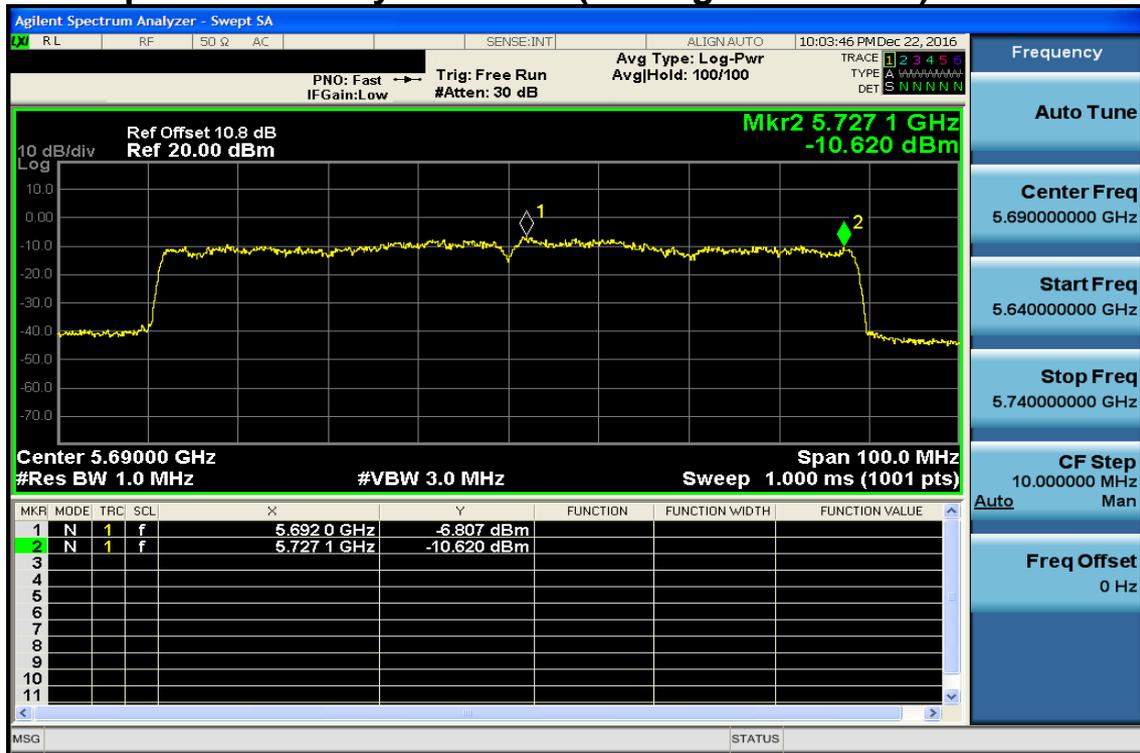
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### Peak Power Spectral Density Data Plot (CH High 5690 MHz)



### 802.11ac VHT80, 5725~5850 MHz

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



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## 11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

### 11.1 Standard Applicable

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

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

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APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01	FIELD STRENGTH AT 3m	
	PK: 74 (dBµV/m)	AV 54 (dBµV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBµV/m) PK: 78.2 (dBµV/m)
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
<p>*1 beyond 75 MHz or more above of the bandedge.            *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.            *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.            *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>		

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

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

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

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB $\mu$ 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	01/29/2016	01/28/2017
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	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/06/2016	01/05/2017

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

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*Remark: Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.*

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Pre-Amplifier	Agilent	8447D	2944A07676	01/01/2017	12/31/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/01/2017	12/31/2017
Low Loss Cable	Huber Suhner	966_RX	9	01/01/2017	12/31/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/01/2017	12/31/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018

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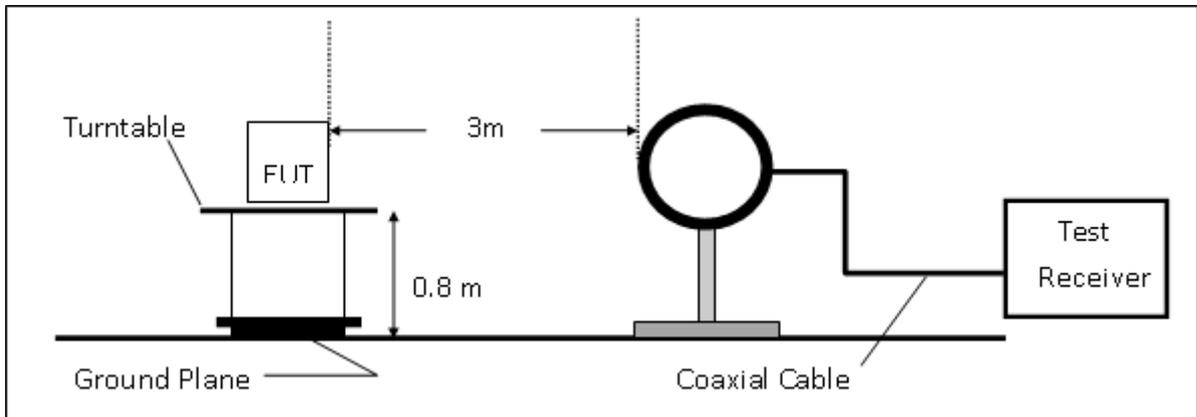
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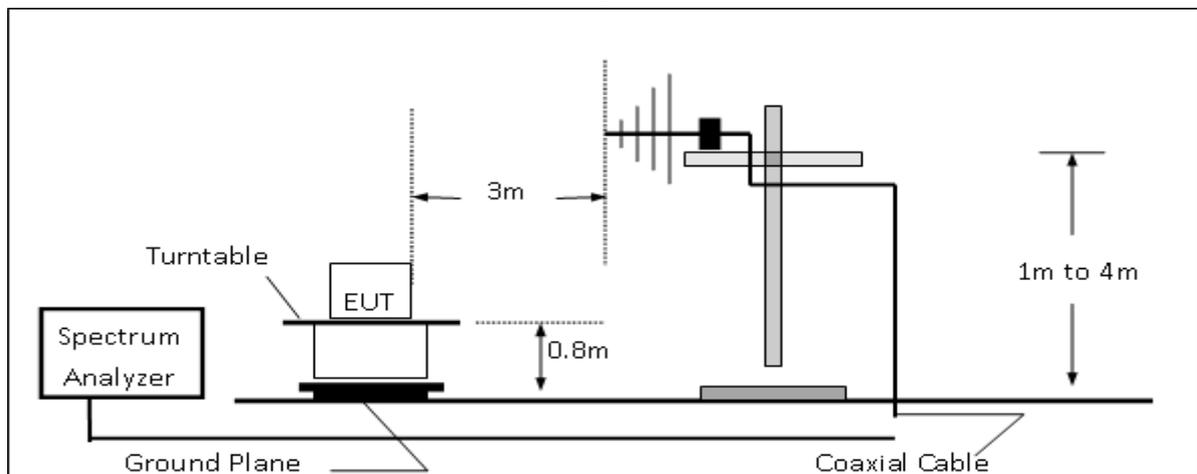
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### 11.3 Test SET-UP

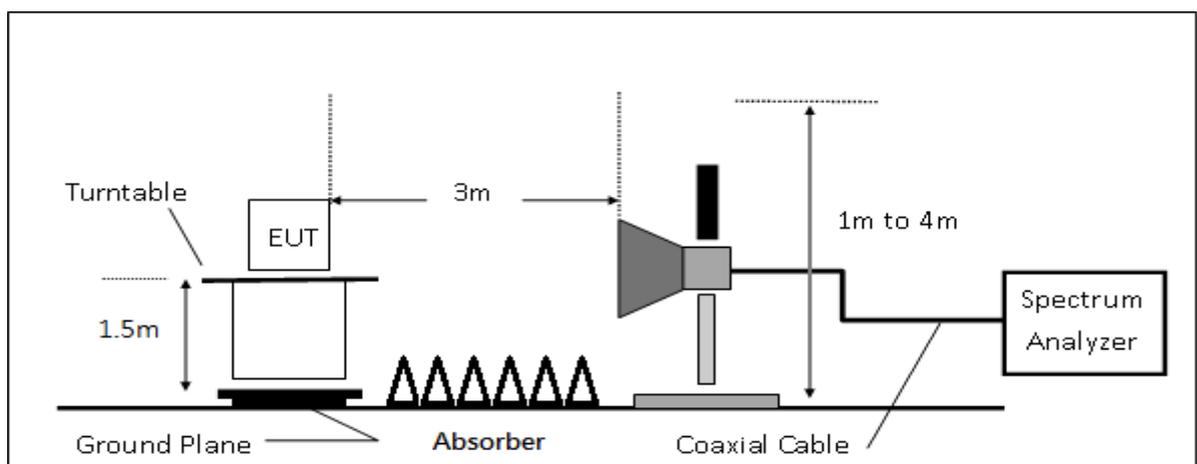
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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### 11.4 Measurement Procedure

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

### 11.5 Field Strength Calculation

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

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

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

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre\_Amplifier Gain(dB)}$$

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**Note :**

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

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

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

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

**11.7 Measurement Result**

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

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

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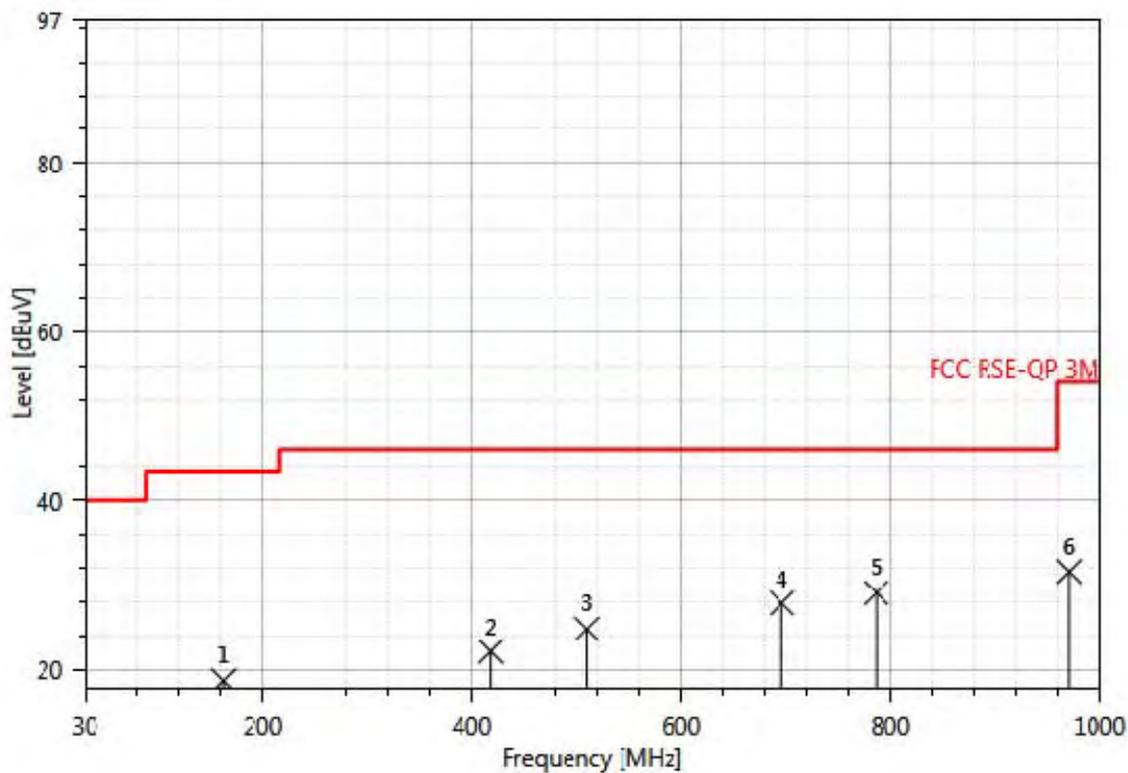
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### Radiated Spurious Emission Measurement Result

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

#### 802.11a 5150~5250 MHz

Operation Mode :	802.11 aB1	Test Date :	12/21/2016
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. 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
162.89	S	Peak	18.69	26.17	-7.48	43.50	-24.81
418.00	S	Peak	22.11	25.49	-3.38	46.00	-23.89
510.15	S	Peak	24.79	26.99	-2.20	46.00	-21.21
696.39	S	Peak	27.83	26.48	1.36	46.00	-18.17
786.60	S	Peak	29.06	26.46	2.60	46.00	-16.94
970.90	S	Peak	31.57	25.28	6.28	54.00	-22.43

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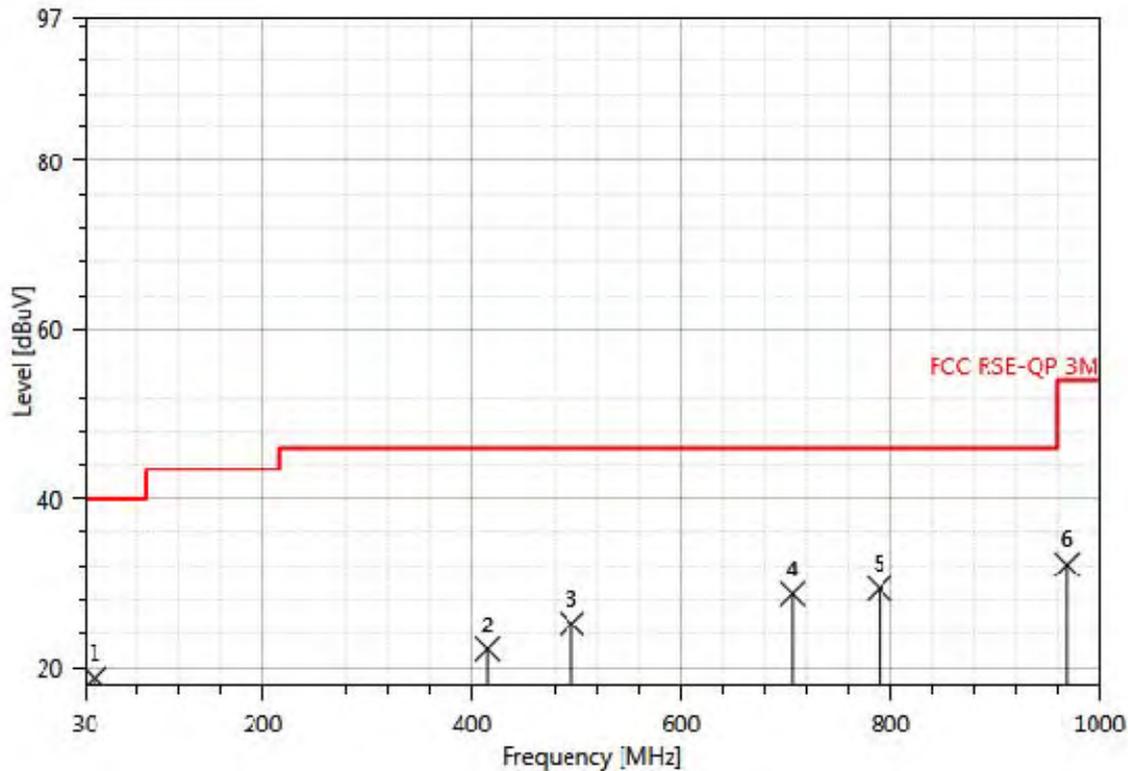
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Operation Mode :	802.11 aB1	Test Date :	12/21/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
39.70	S	Peak	18.73	27.30	-8.56	40.00	-21.27
415.09	S	Peak	22.18	25.39	-3.21	46.00	-23.82
495.60	S	Peak	25.18	27.59	-2.41	46.00	-20.82
707.06	S	Peak	28.72	27.32	1.40	46.00	-17.28
789.51	S	Peak	29.35	26.53	2.82	46.00	-16.65
968.96	S	Peak	32.19	25.98	6.21	54.00	-21.81

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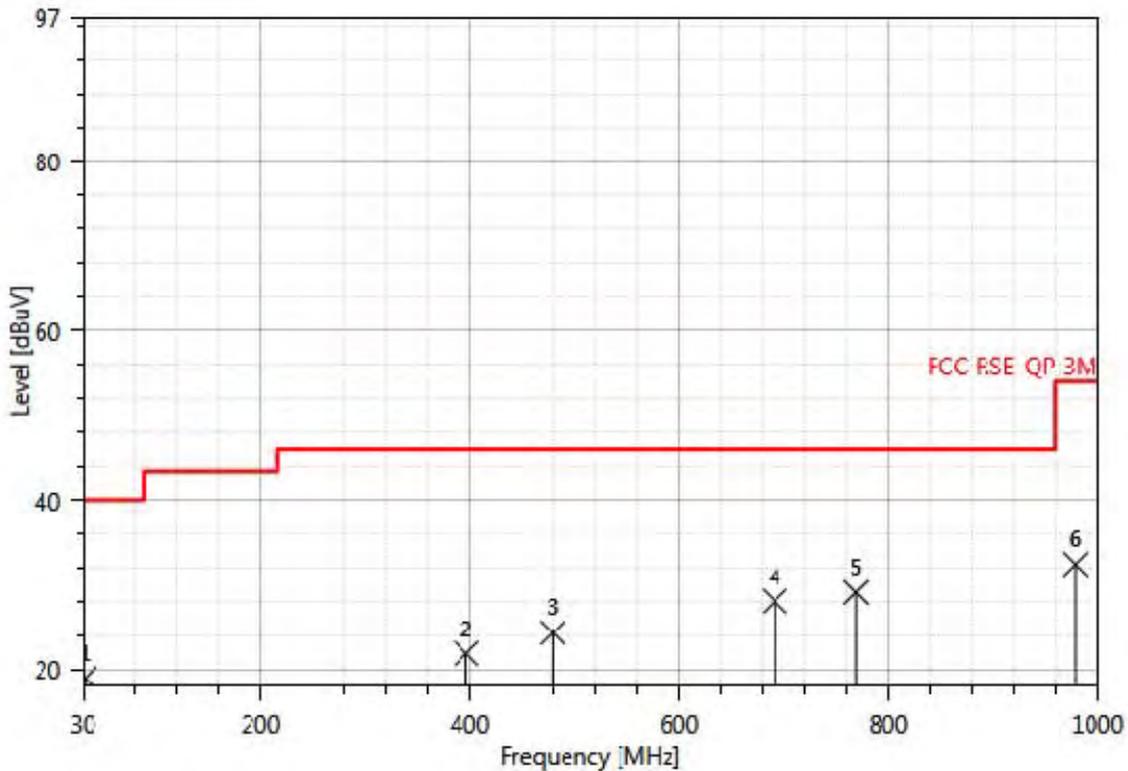
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802.11a 5250~5350 MHz

Operation Mode :	802.11 aB2	Test Date :	12/21/2016
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
31.94	S	Peak	18.96	28.07	-9.11	40.00	-21.04
396.66	S	Peak	21.91	26.01	-4.10	46.00	-24.09
479.11	S	Peak	24.33	26.73	-2.39	46.00	-21.67
691.54	S	Peak	28.05	26.58	1.47	46.00	-17.95
769.14	S	Peak	29.08	26.31	2.77	46.00	-16.92
978.66	S	Peak	32.43	26.16	6.28	54.00	-21.57

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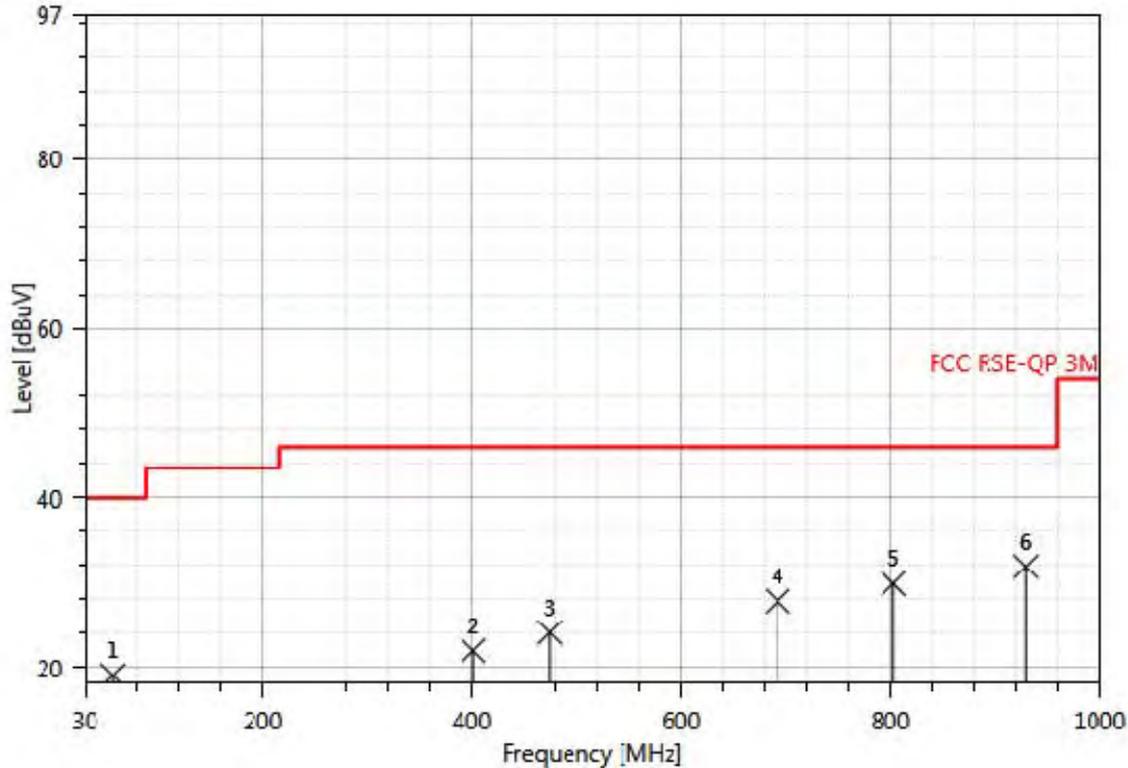
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Operation Mode :	802.11 aB2	Test Date :	12/21/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
57.16	S	Peak	19.08	27.05	-7.97	40.00	-20.92
401.51	S	Peak	21.98	25.93	-3.95	46.00	-24.02
474.26	S	Peak	24.12	26.60	-2.48	46.00	-21.88
692.51	S	Peak	27.82	26.35	1.47	46.00	-18.18
803.09	S	Peak	29.88	26.77	3.12	46.00	-16.12
929.19	S	Peak	31.89	26.65	5.25	46.00	-14.11

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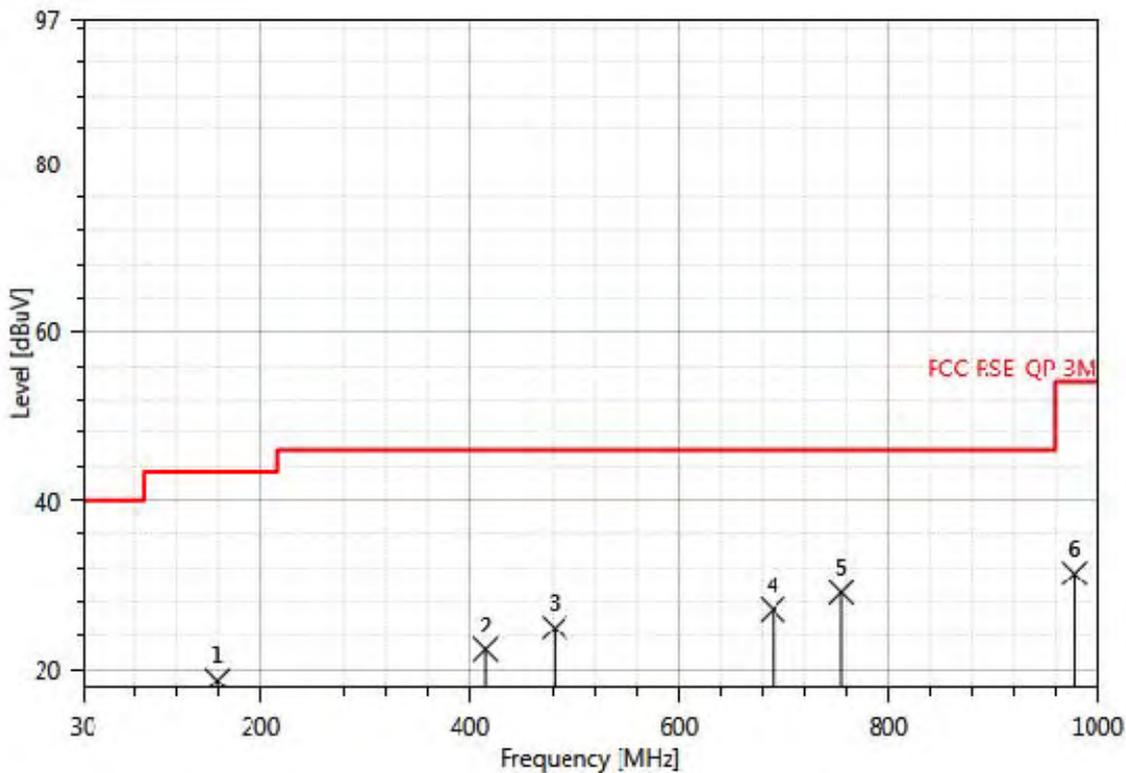
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### 802.11a, 5470~5725 MHz

Operation Mode :	802.11 aB3	Test Date :	12/21/2016
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
159.01	S	Peak	18.71	26.09	-7.38	43.50	-24.79
415.09	S	Peak	22.36	25.57	-3.21	46.00	-23.64
481.05	S	Peak	24.92	27.30	-2.37	46.00	-21.08
689.60	S	Peak	27.10	25.83	1.27	46.00	-18.90
755.56	S	Peak	29.09	26.28	2.81	46.00	-16.91
977.69	S	Peak	31.36	25.06	6.30	54.00	-22.64

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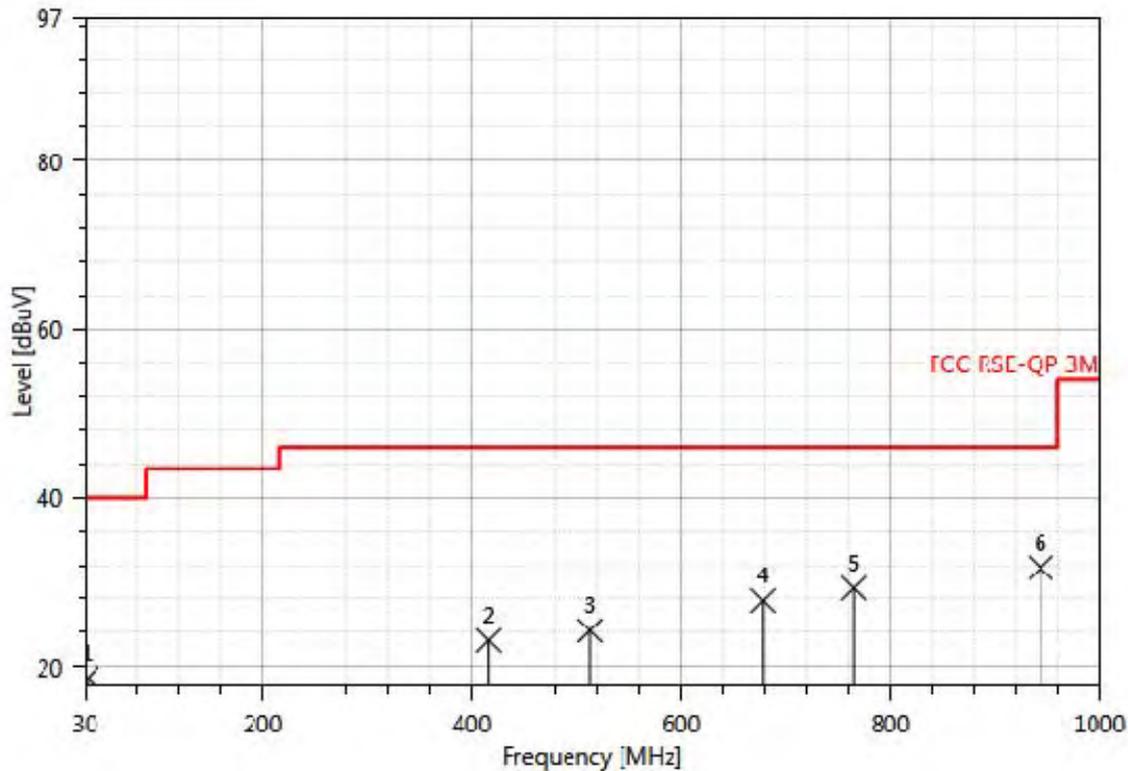
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Operation Mode :	802.11 aB3	Test Date :	12/21/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
31.94	S	Peak	18.57	27.68	-9.11	40.00	-21.43
416.06	S	Peak	23.05	26.31	-3.27	46.00	-22.95
513.06	S	Peak	24.23	26.12	-1.90	46.00	-21.77
677.96	S	Peak	27.79	27.00	0.79	46.00	-18.21
765.26	S	Peak	29.26	26.16	3.11	46.00	-16.74
943.74	S	Peak	31.69	26.38	5.31	46.00	-14.31

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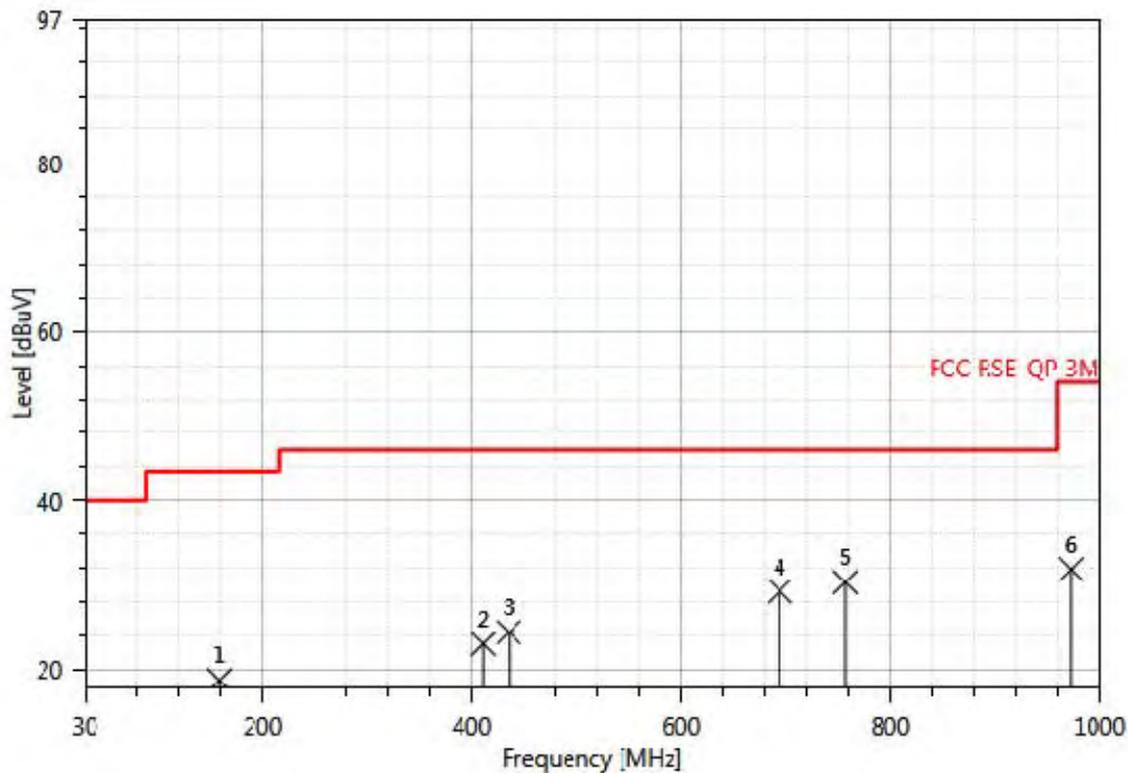
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### 802.11a, 5725~5850 MHz

Operation Mode :	802.11 aB4	Test Date :	12/21/2016
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. 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
159.01	S	Peak	18.68	26.06	-7.38	43.50	-24.82
411.21	S	Peak	22.98	26.62	-3.64	46.00	-23.02
435.46	S	Peak	24.38	27.93	-3.55	46.00	-21.62
694.45	S	Peak	29.24	27.89	1.35	46.00	-16.76
757.50	S	Peak	30.30	27.29	3.01	46.00	-15.70
972.84	S	Peak	31.83	25.65	6.18	54.00	-22.17

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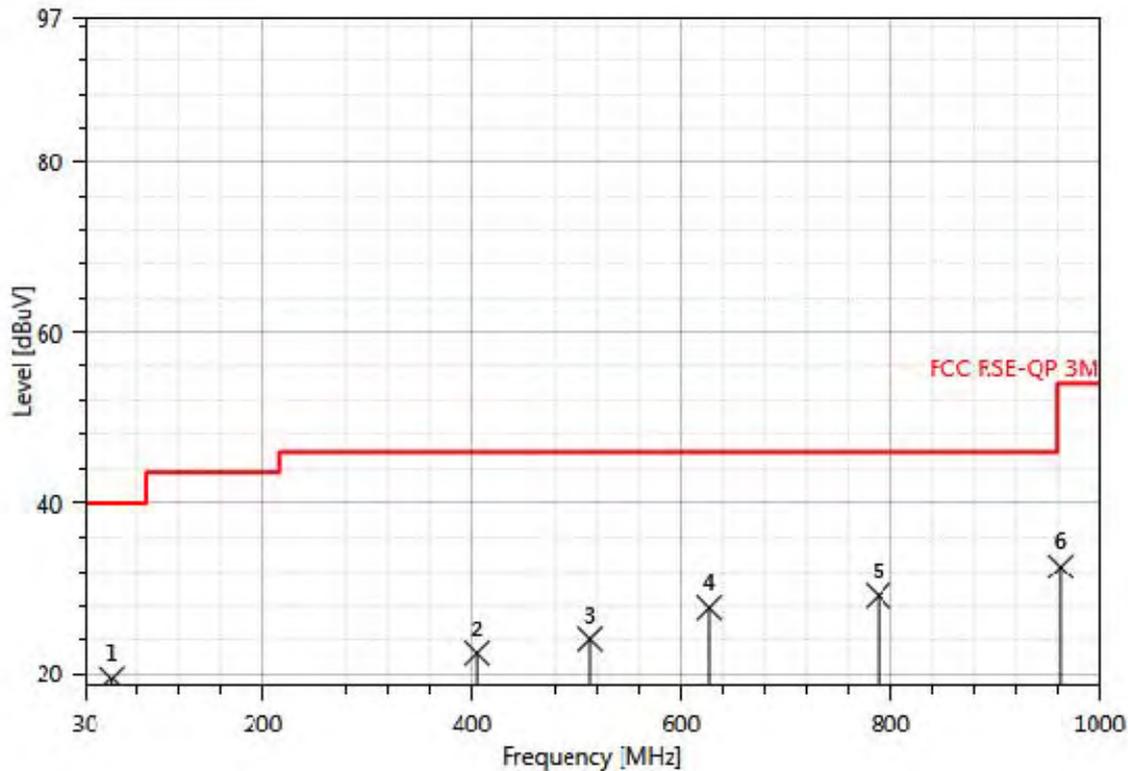
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Operation Mode :	802.11 aB4	Test Date :	12/21/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
56.19	S	Peak	19.42	27.34	-7.92	40.00	-20.58
405.39	S	Peak	22.38	26.08	-3.70	46.00	-23.62
513.06	S	Peak	23.96	25.86	-1.90	46.00	-22.04
626.55	S	Peak	27.73	27.38	0.35	46.00	-18.27
788.54	S	Peak	29.11	26.36	2.75	46.00	-16.89
963.14	S	Peak	32.51	26.44	6.06	54.00	-21.49

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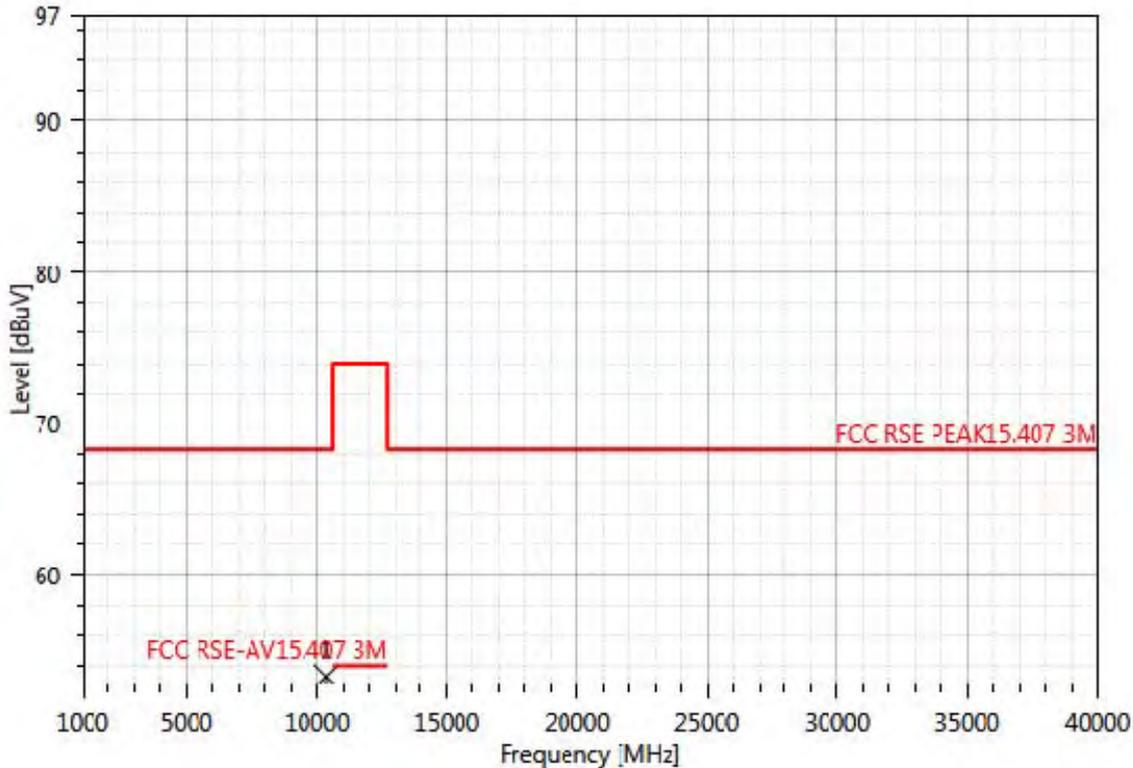
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**Above 1GHz Worst-Case Data:**

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

Operation Mode :	802.11 aB1	Test Date :	12/21/2016
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	53.29	35.00	18.29	68.30	-15.01

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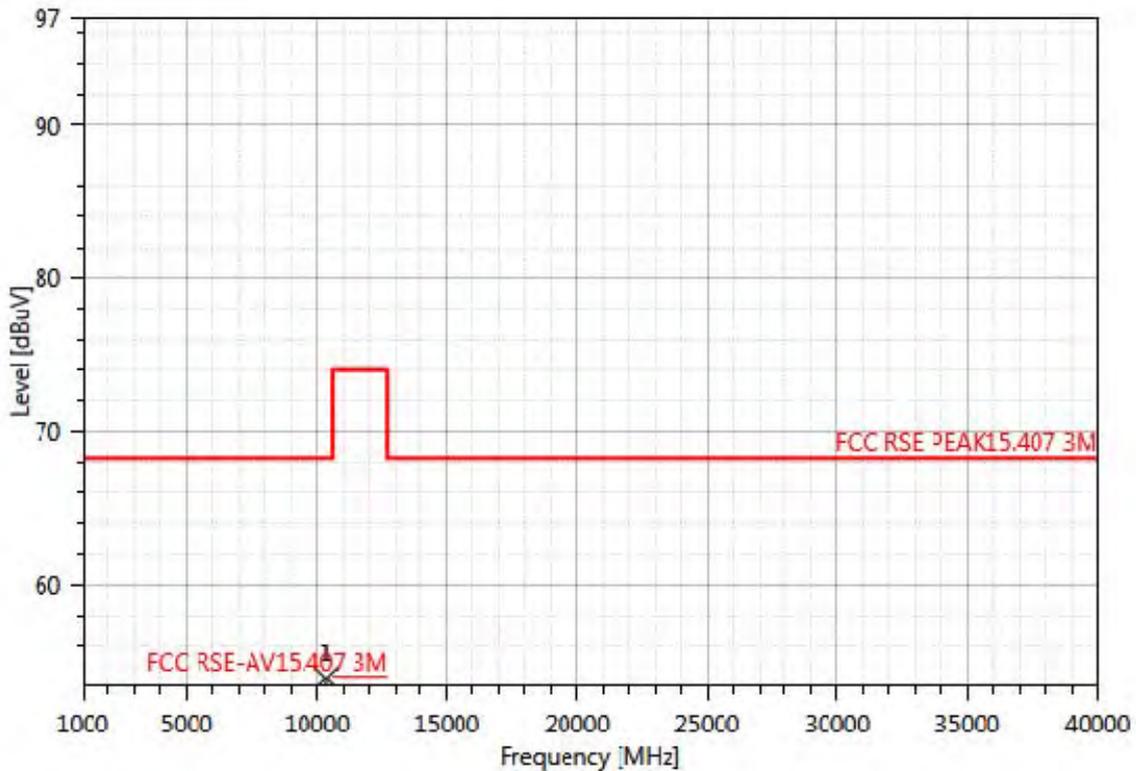
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Operation Mode :	802.11 aB1	Test Date :	12/21/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	53.92	35.62	18.29	68.30	-14.38

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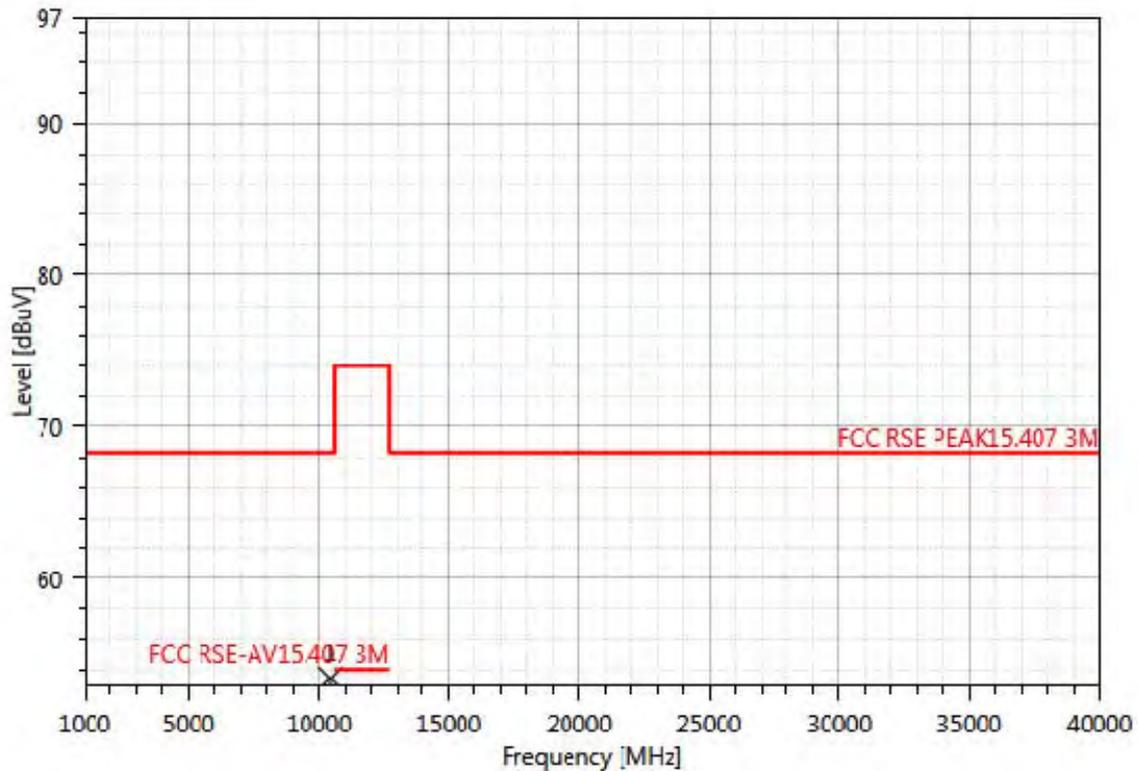
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Operation Mode :	802.11 aB1	Test Date :	12/21/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	53.41	34.73	18.68	68.30	-14.89

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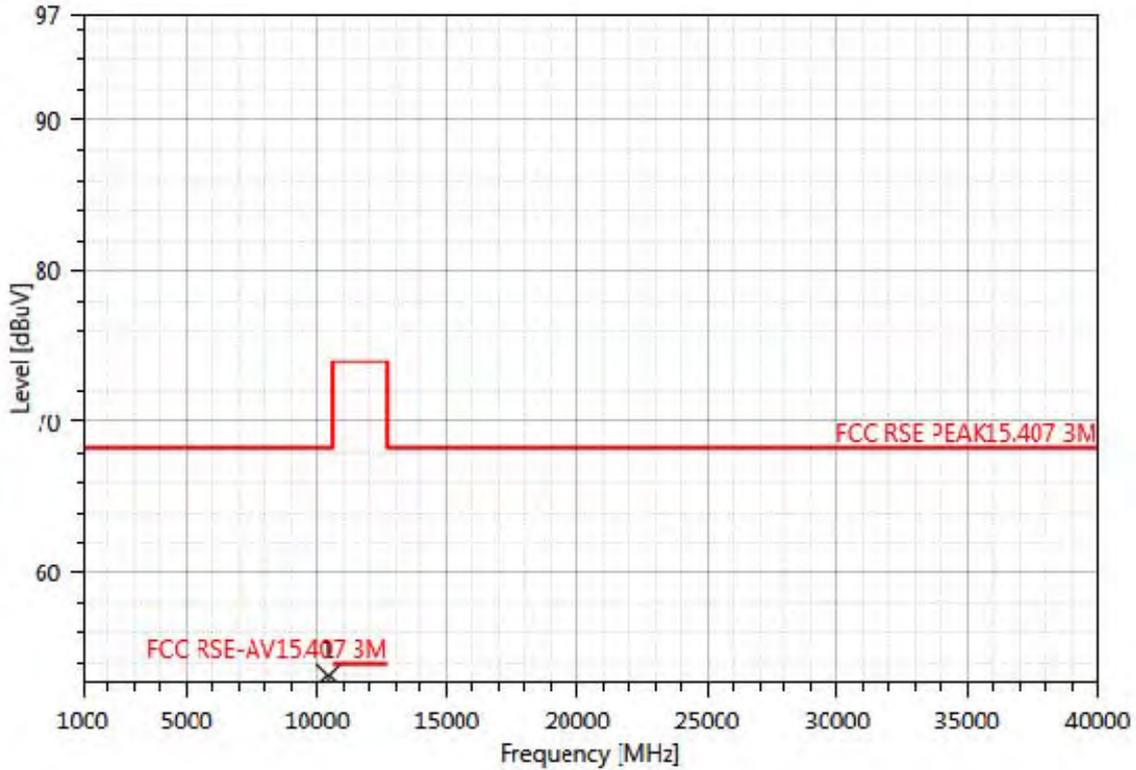
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Operation Mode :	802.11 aB1	Test Date :	12/21/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	53.21	34.53	18.68	68.30	-15.09

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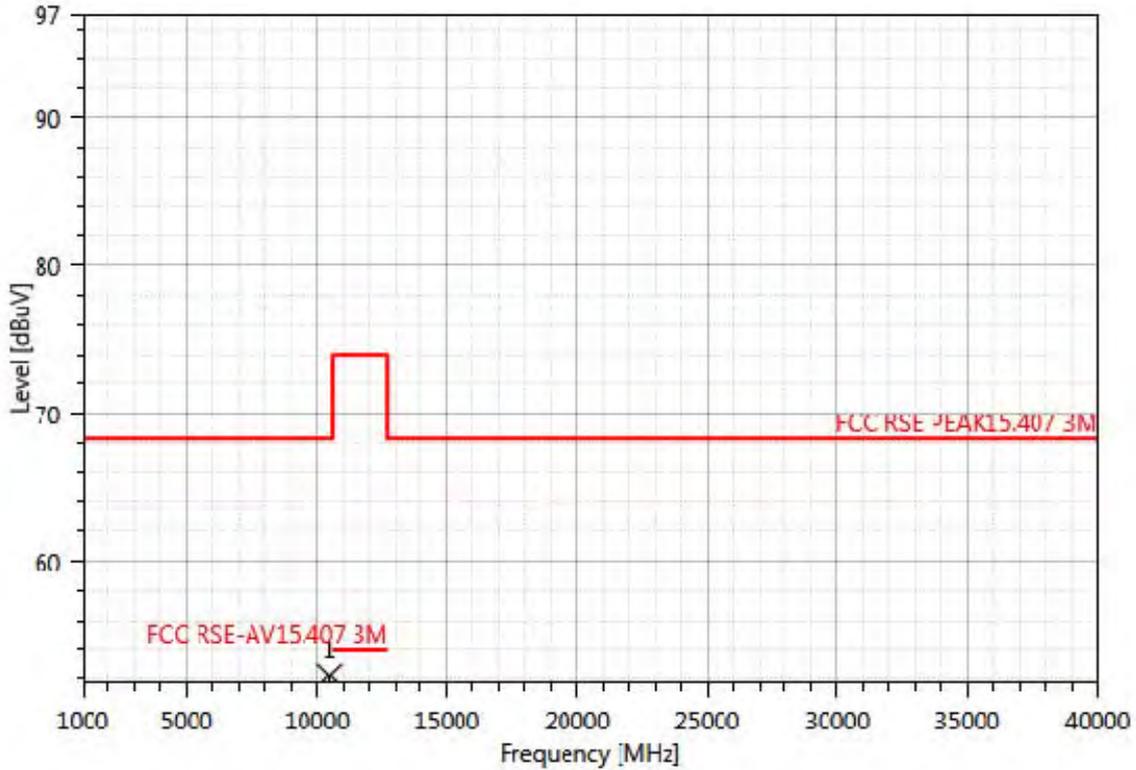
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Operation Mode :	802.11 aB1	Test Date :	12/21/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. 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
10480.00	H	Peak	52.27	33.98	18.29	68.30	-16.03

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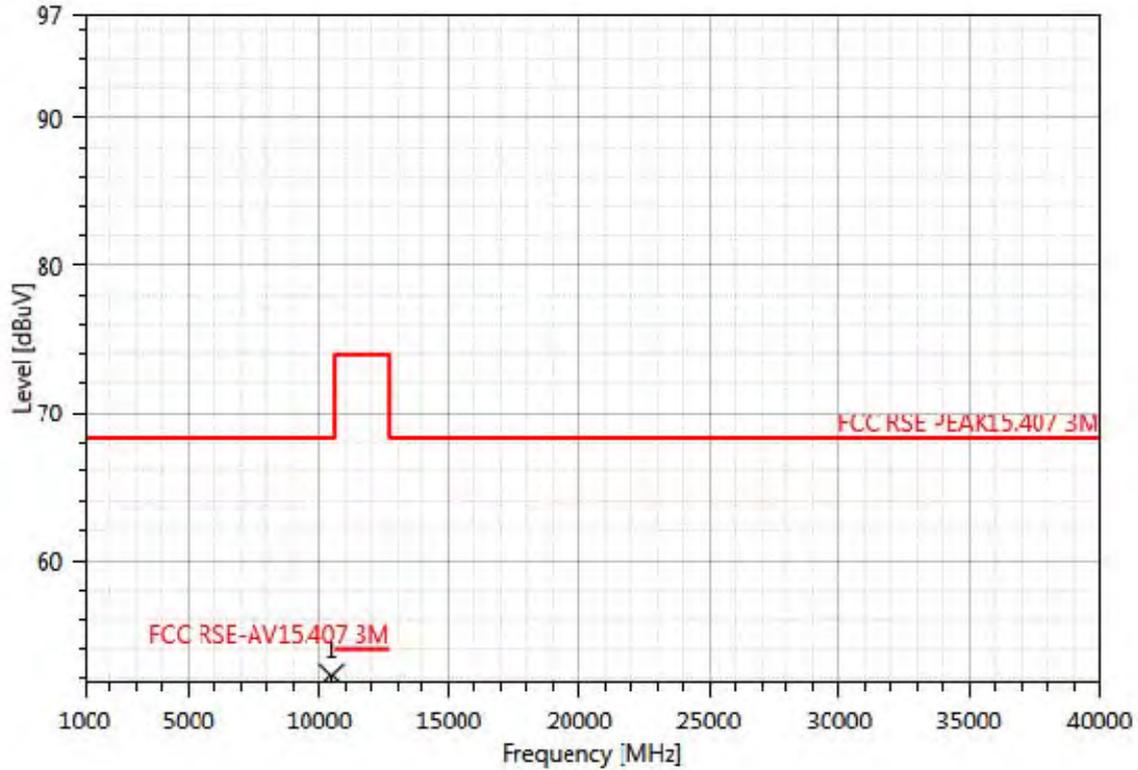
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Operation Mode :	802.11 aB1	Test Date :	12/21/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
10480.00	H	Peak	52.22	33.93	18.29	68.30	-16.08

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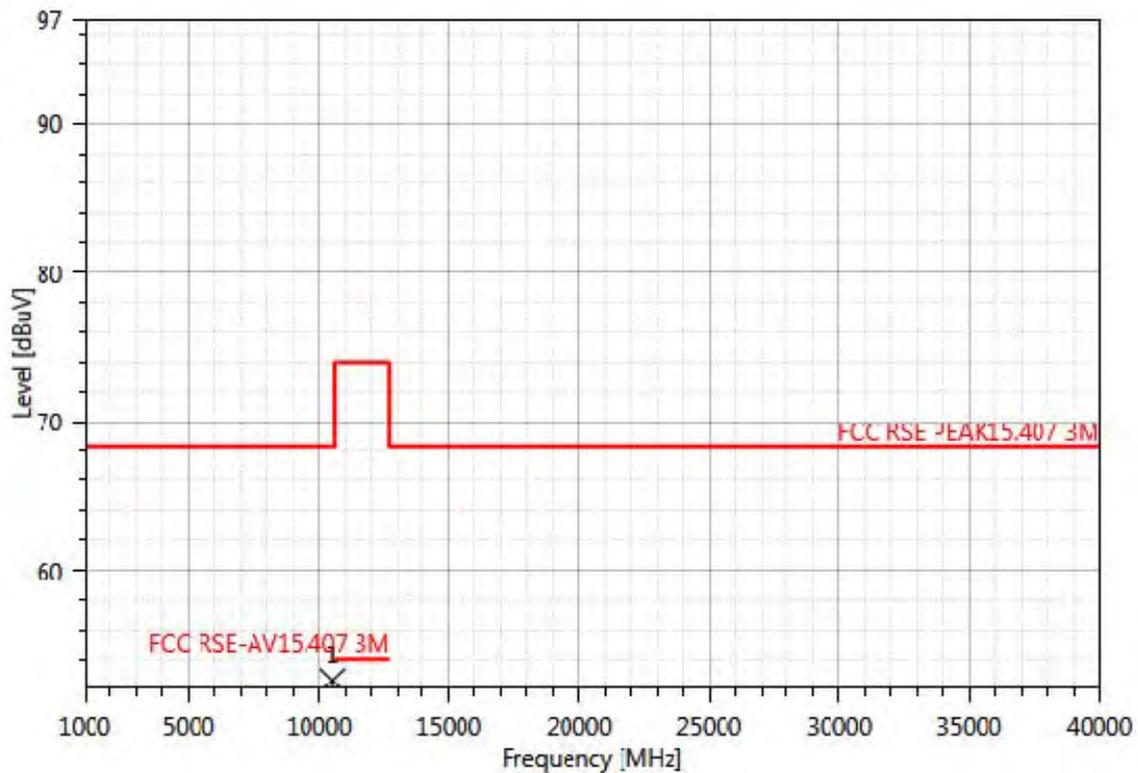
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11 aB2	Test Date :	12/21/2016
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 dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.60	33.23	19.37	68.30	-15.70

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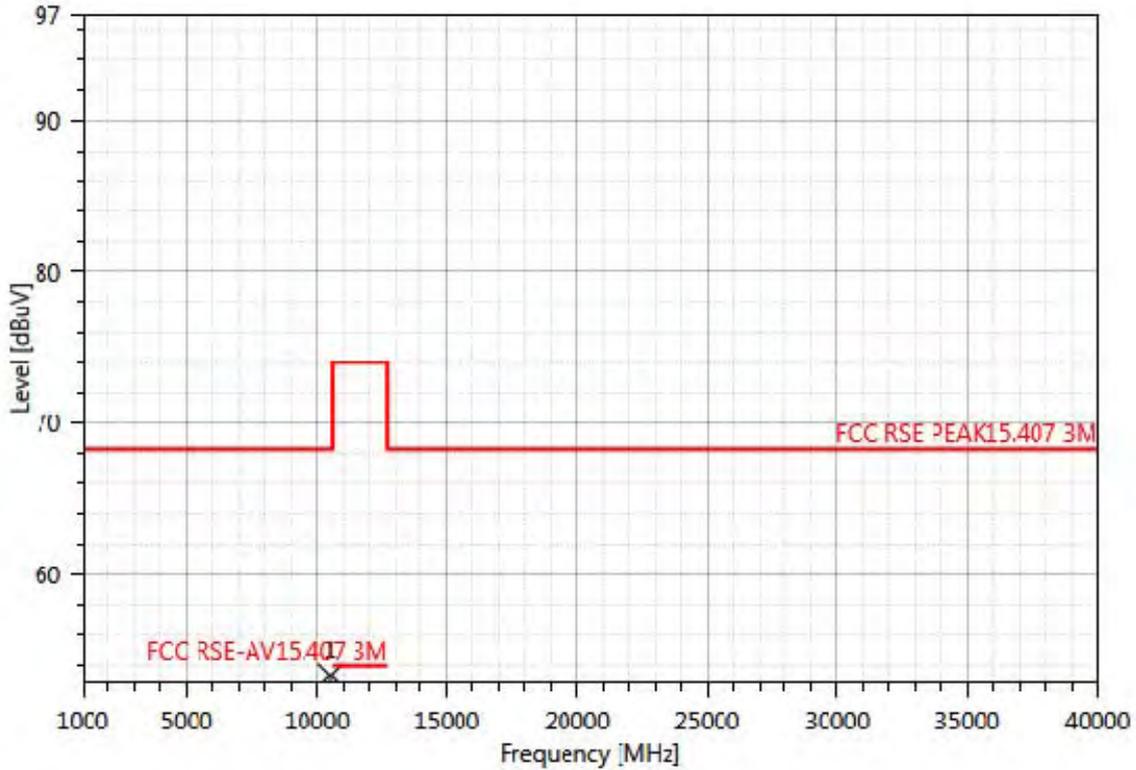
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Operation Mode :	802.11 aB2	Test Date :	12/21/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	53.33	33.96	19.37	68.30	-14.97

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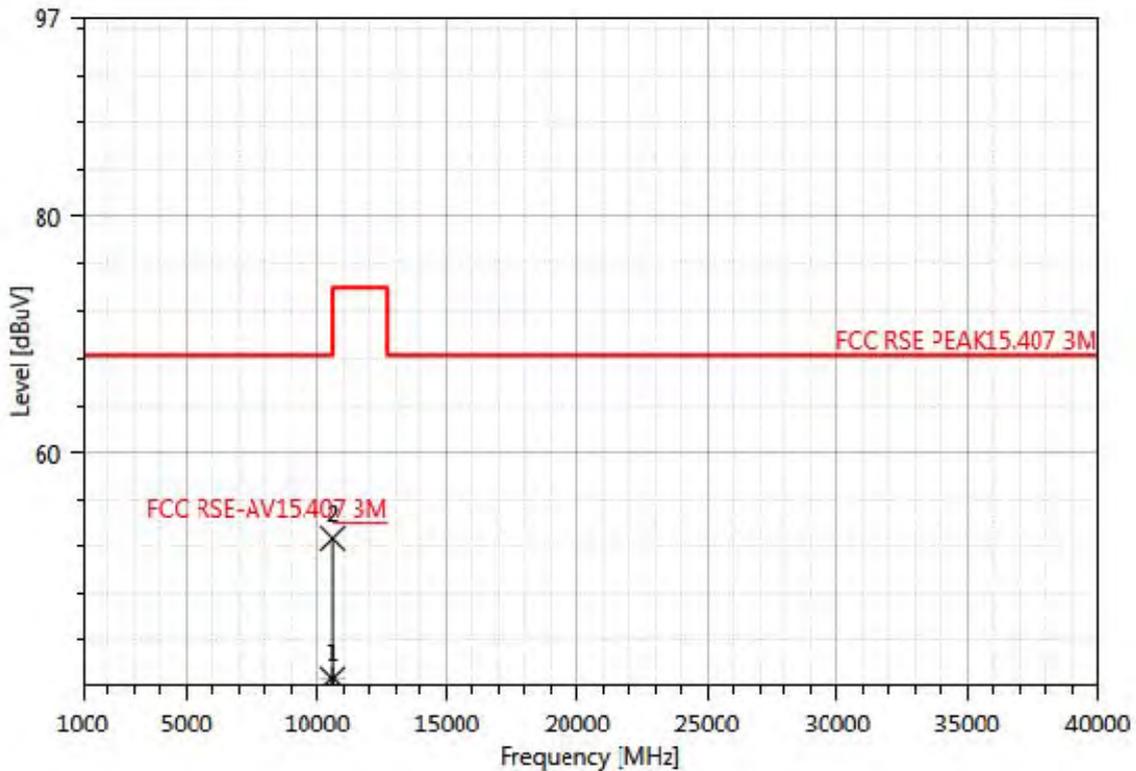
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Operation Mode :	802.11 aB2	Test Date :	12/21/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	40.76	21.85	18.91	54.00	-13.24
10600.00	H	Peak	52.63	33.72	18.91	74.00	-21.37

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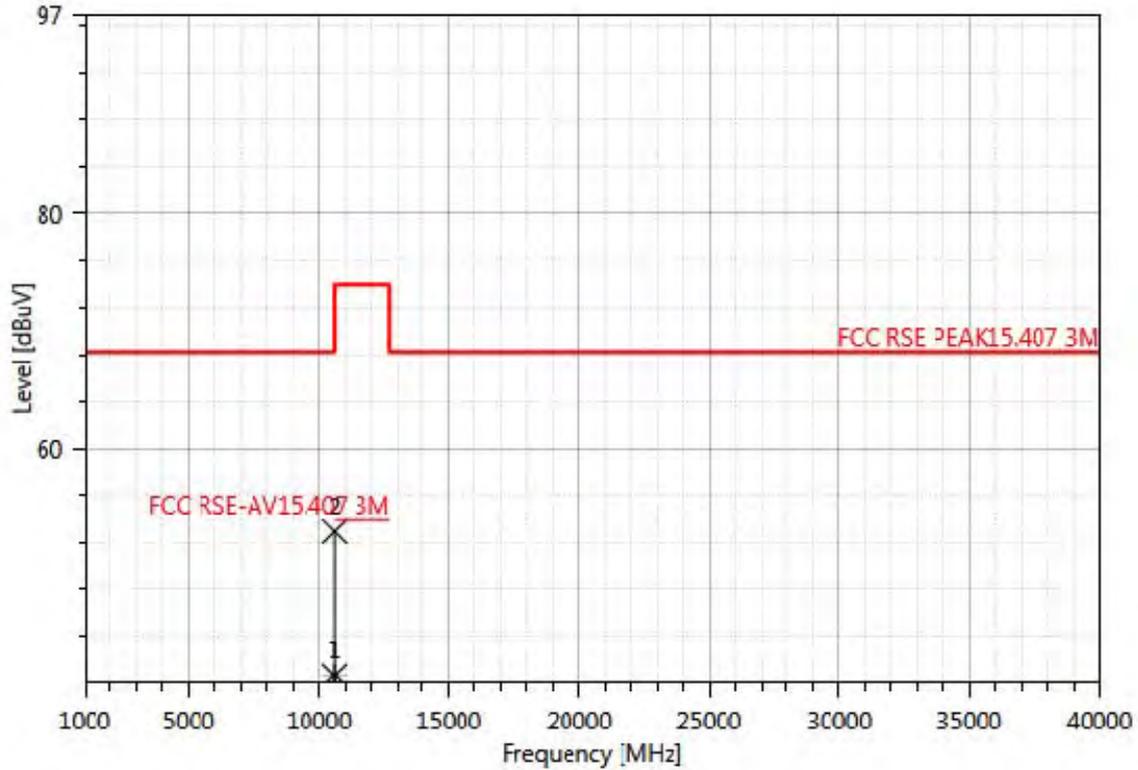
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Operation Mode :	802.11 aB2	Test Date :	12/21/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
10600.00	H	Average	40.73	21.82	18.91	54.00	-13.27
10600.00	H	Peak	52.94	34.04	18.91	74.00	-21.06

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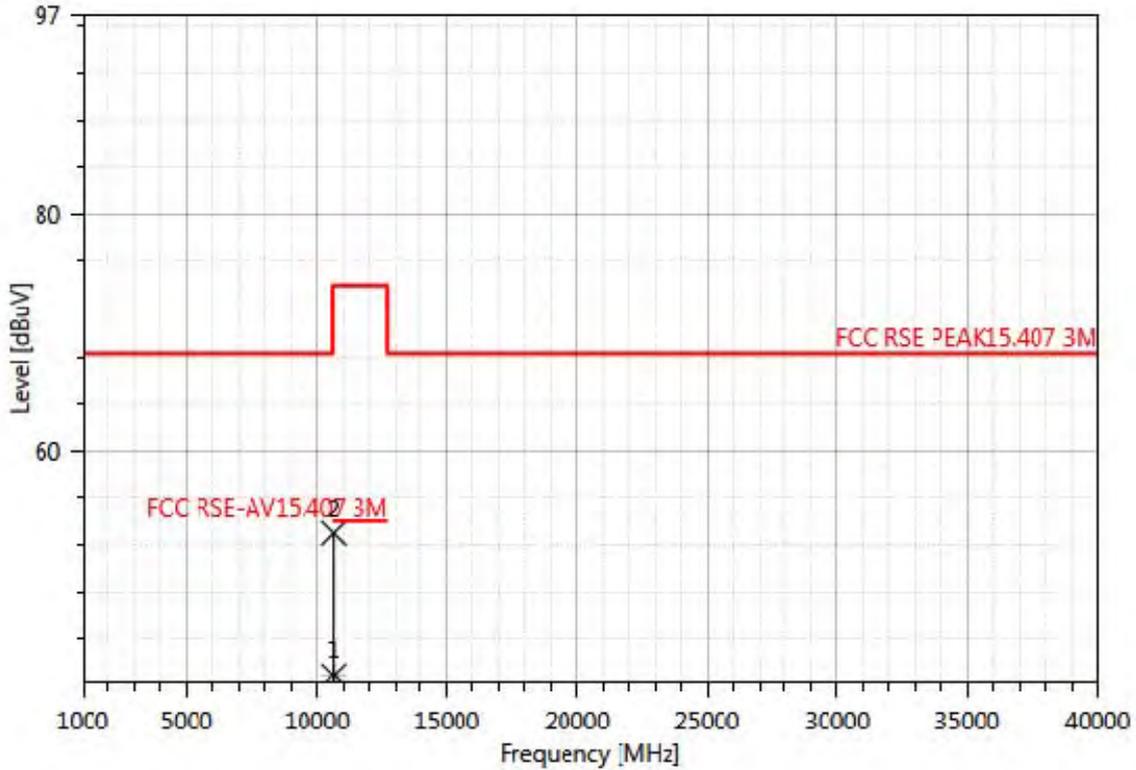
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Operation Mode :	802.11 aB2	Test Date :	12/21/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	40.95	21.77	19.18	54.00	-13.05
10640.00	H	Peak	52.98	33.79	19.18	74.00	-21.02

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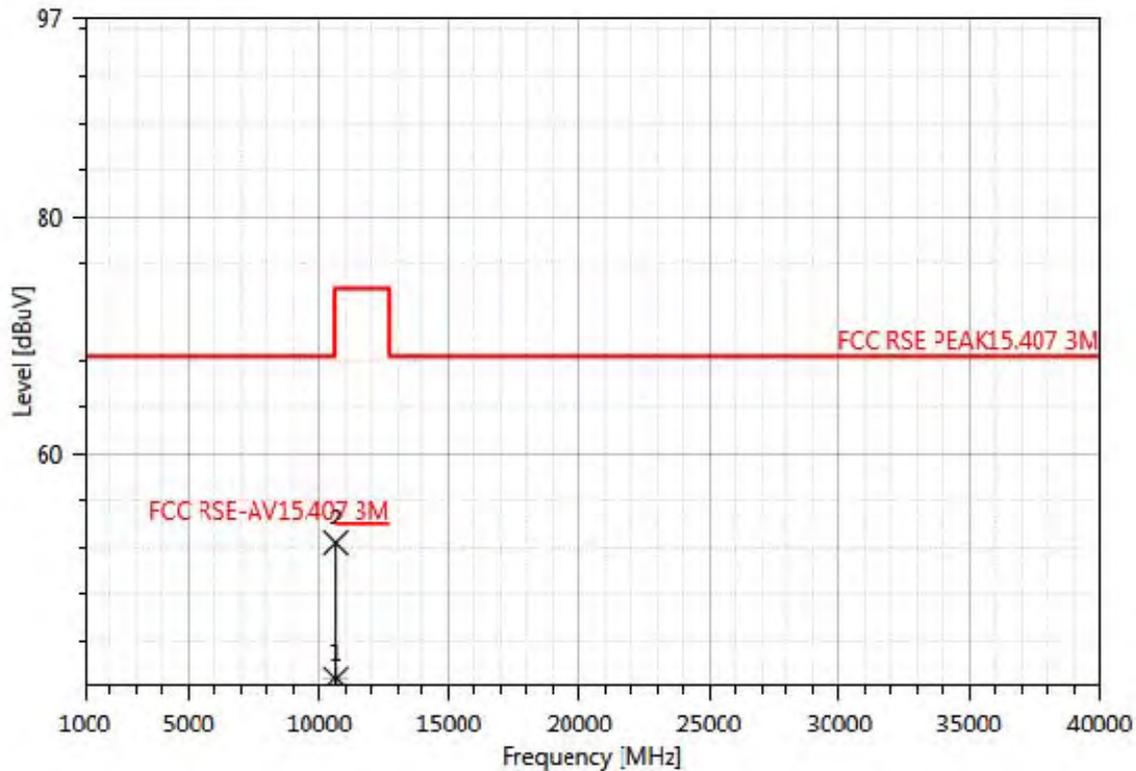
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Operation Mode :	802.11 aB2	Test Date :	12/21/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	40.92	21.74	19.18	54.00	-13.08
10640.00	H	Peak	52.40	33.22	19.18	74.00	-21.60

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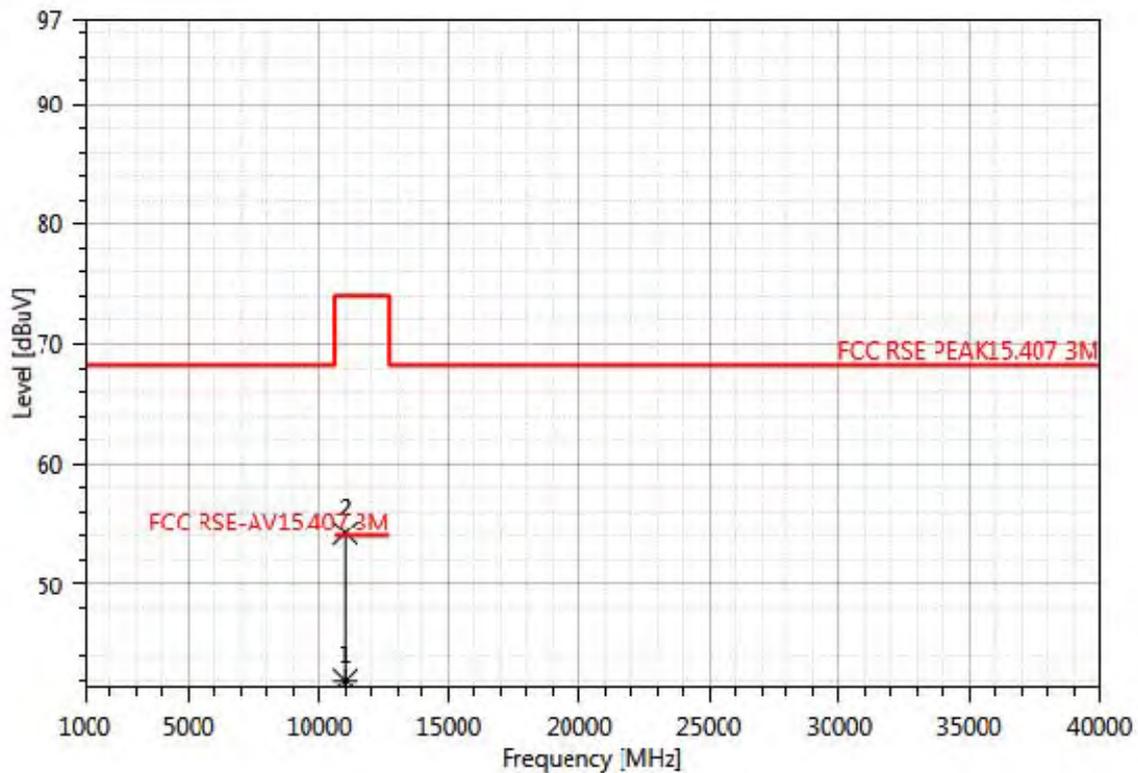
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11 aB3	Test Date :	12/21/2016
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	42.00	21.83	20.17	54.00	-12.00
11000.00	H	Peak	54.25	34.08	20.17	74.00	-19.75

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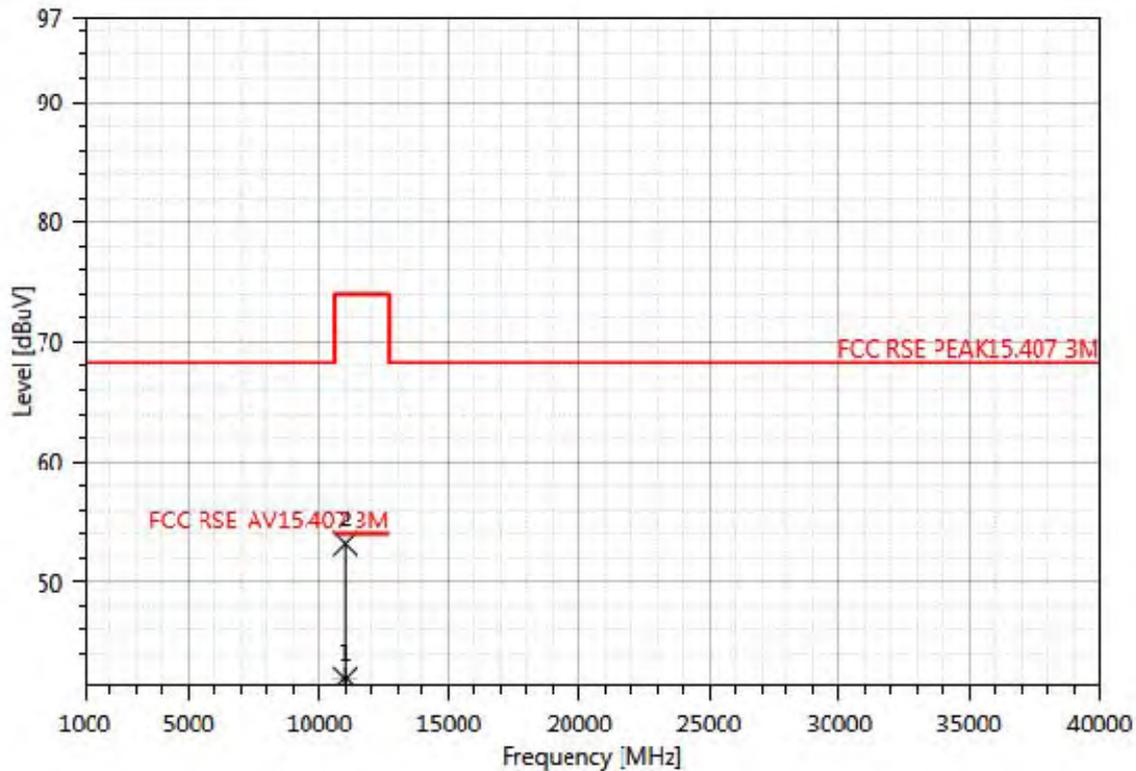
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Operation Mode :	802.11 aB3	Test Date :	12/21/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	42.01	21.84	20.17	54.00	-11.99
11000.00	H	Peak	53.19	33.03	20.17	74.00	-20.81

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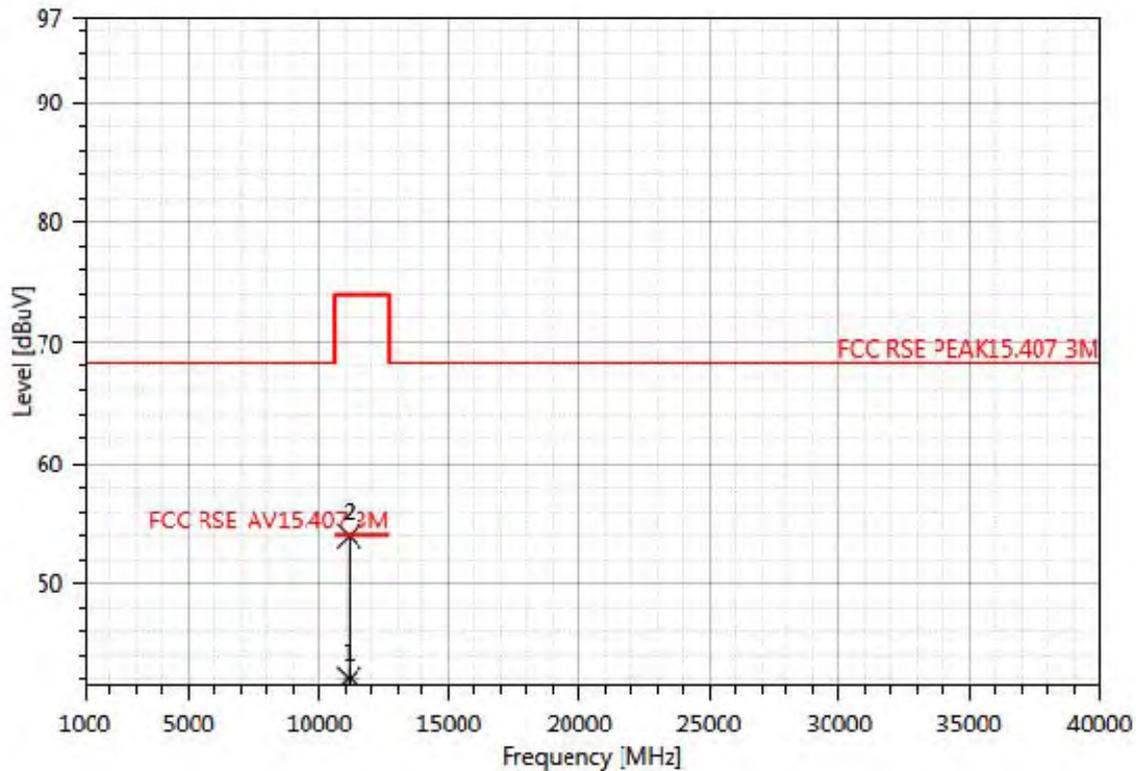
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Operation Mode :	802.11 aB3	Test Date :	12/21/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	42.14	21.69	20.45	54.00	-11.86
11160.00	H	Peak	53.91	33.46	20.45	74.00	-20.09

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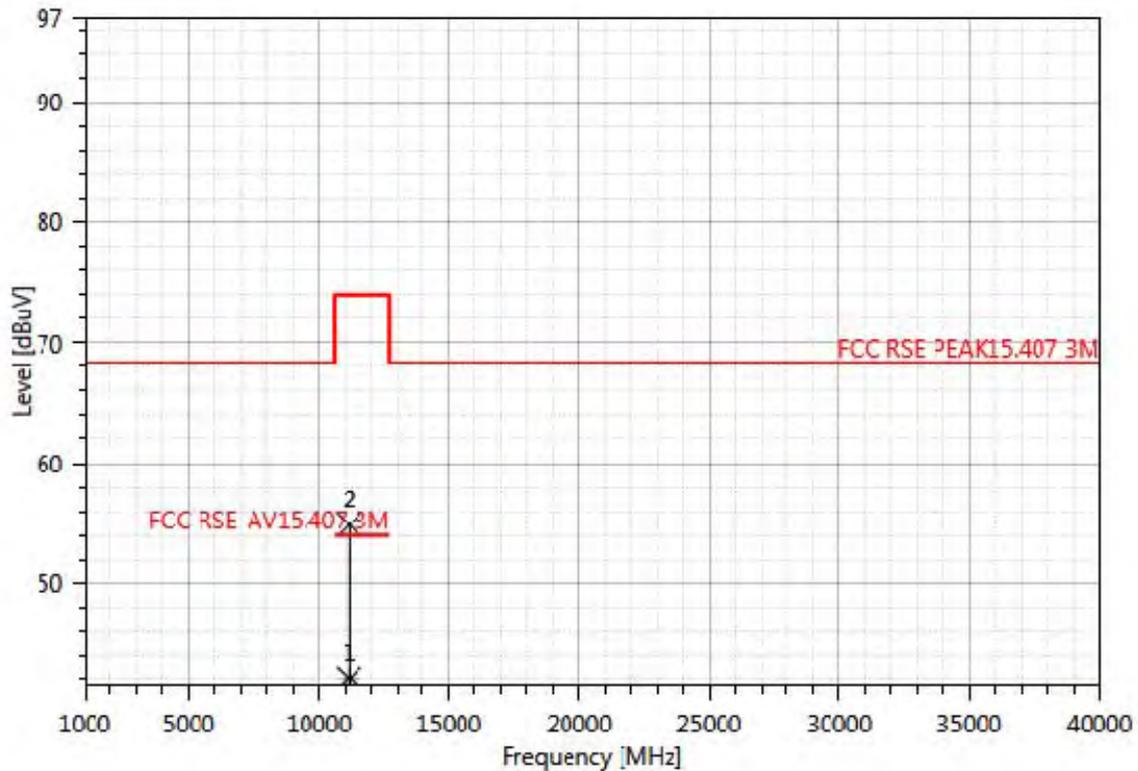
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Operation Mode :	802.11 aB3	Test Date :	12/21/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	42.15	21.70	20.45	54.00	-11.85
11160.00	H	Peak	54.89	34.44	20.45	74.00	-19.11

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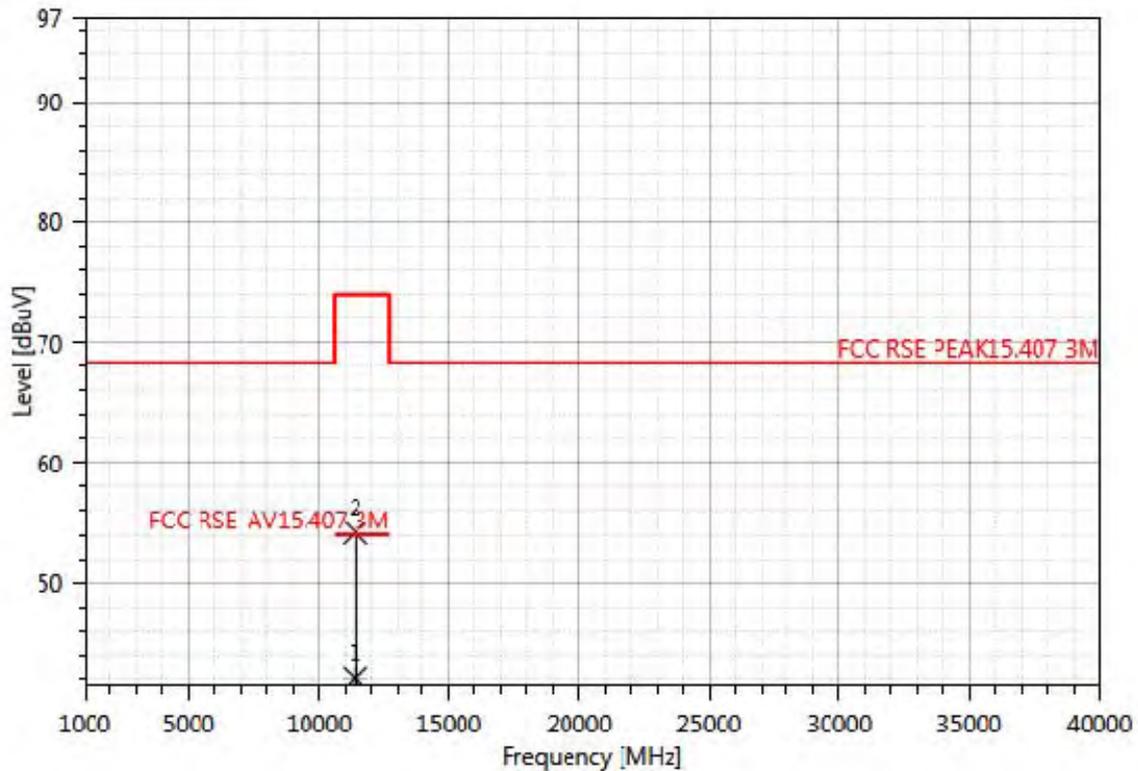
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Operation Mode :	802.11 aB3	Test Date :	12/21/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. 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
11400.00	H	Average	42.10	21.54	20.56	54.00	-11.90
11400.00	H	Peak	54.20	33.64	20.56	74.00	-19.80

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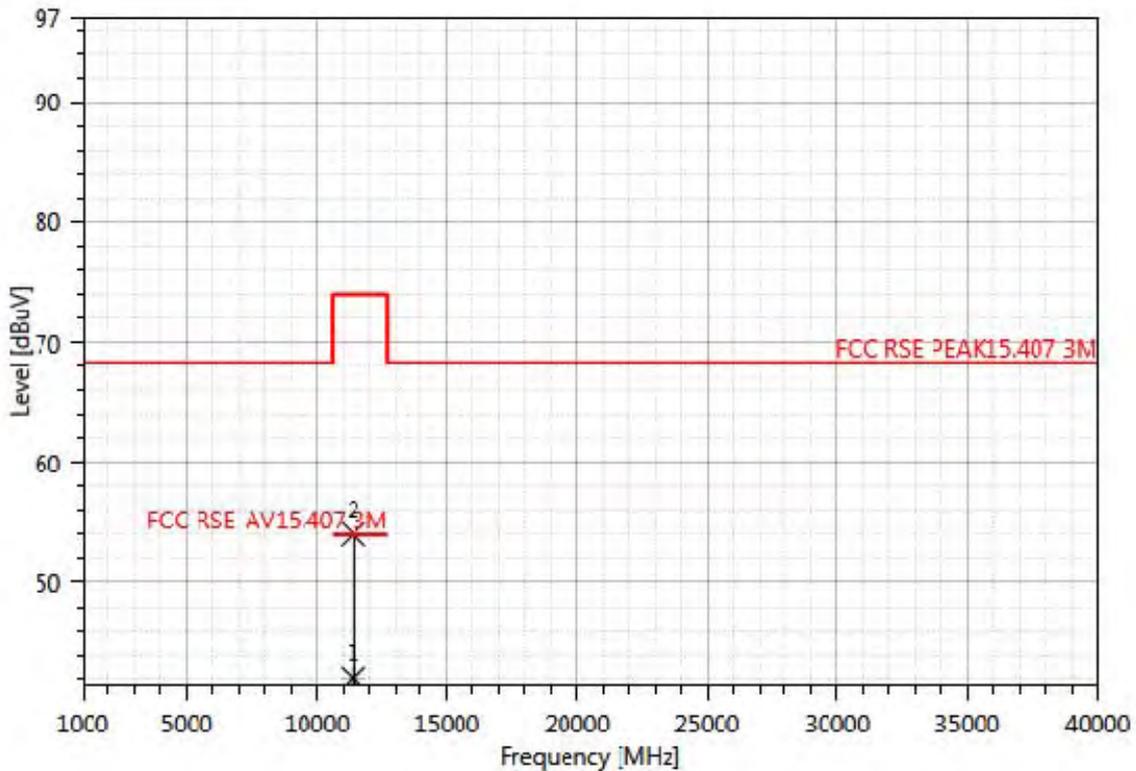
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Operation Mode :	802.11 aB3	Test Date :	12/21/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11400.00	H	Average	42.08	21.52	20.56	54.00	-11.92
11400.00	H	Peak	54.04	33.49	20.56	74.00	-19.96

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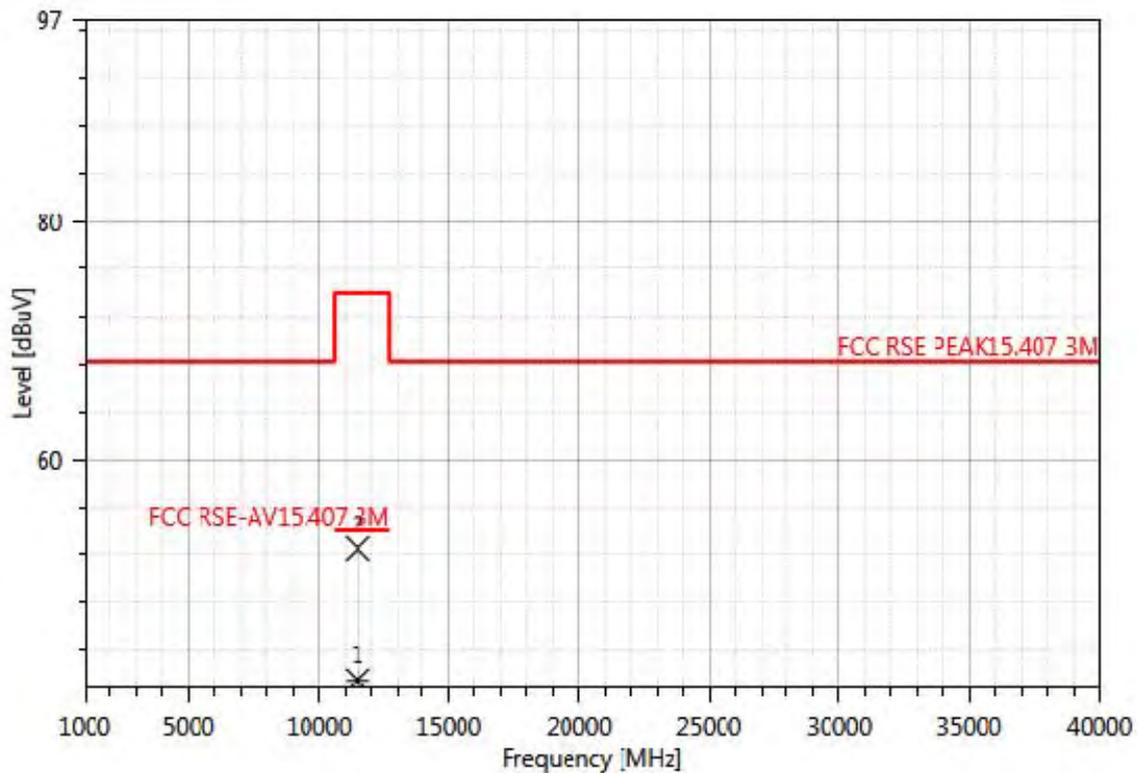
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11 aB4	Test Date :	12/21/2016
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 dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	41.44	21.02	20.42	54.00	-12.56
11490.00	H	Peak	52.50	32.08	20.42	74.00	-21.50

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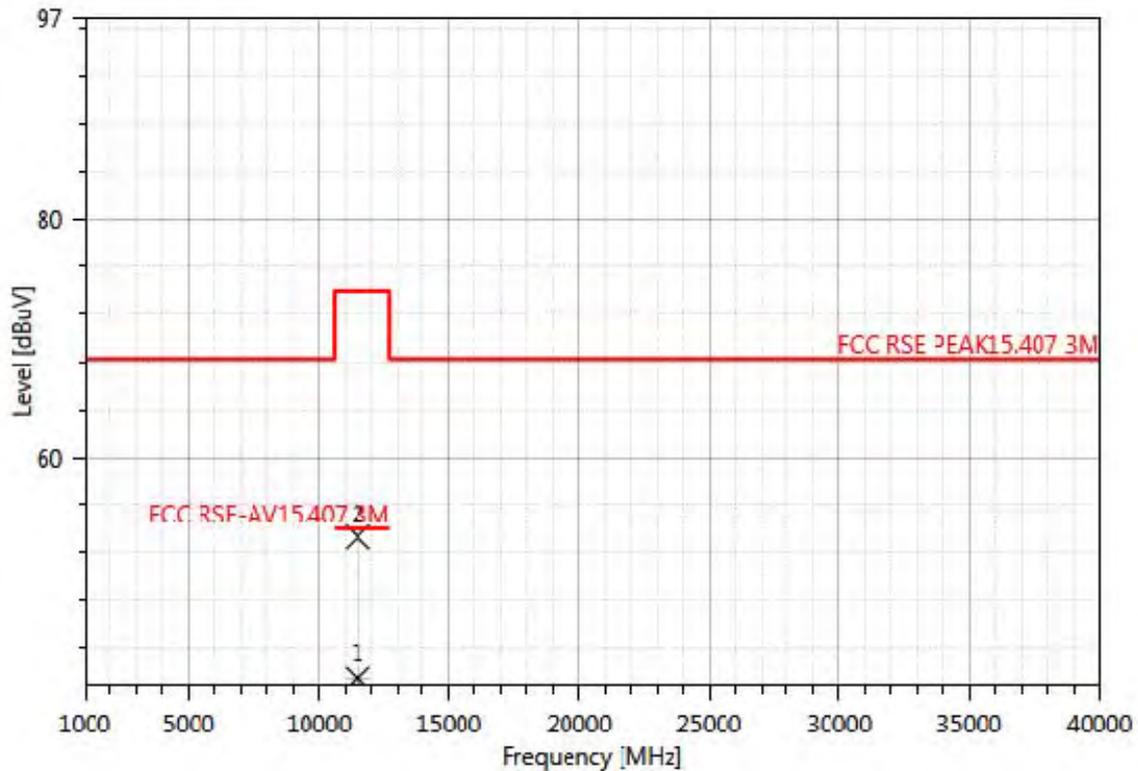
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Operation Mode :	802.11 aB4	Test Date :	12/21/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	41.41	20.99	20.42	54.00	-12.59
11490.00	H	Peak	53.27	32.85	20.42	74.00	-20.73

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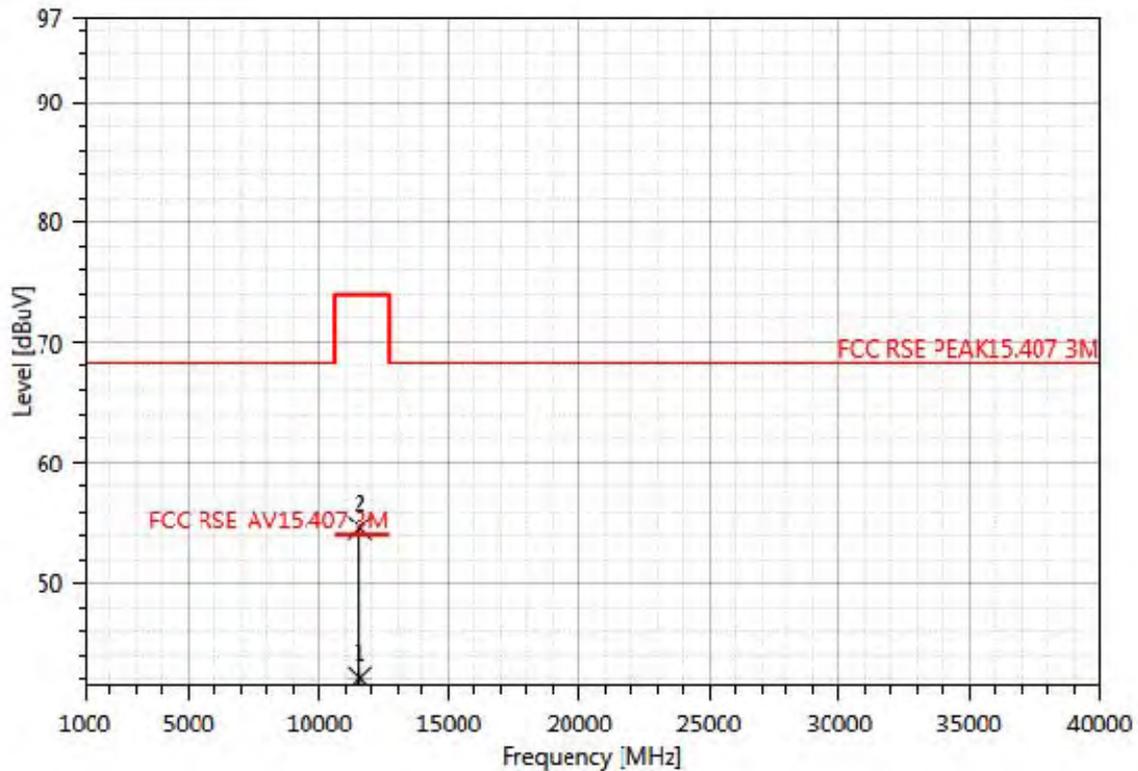
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Operation Mode :	802.11 aB4	Test Date :	12/21/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. 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
11570.00	H	Average	42.12	21.53	20.59	54.00	-11.88
11570.00	H	Peak	54.60	34.02	20.59	74.00	-19.40

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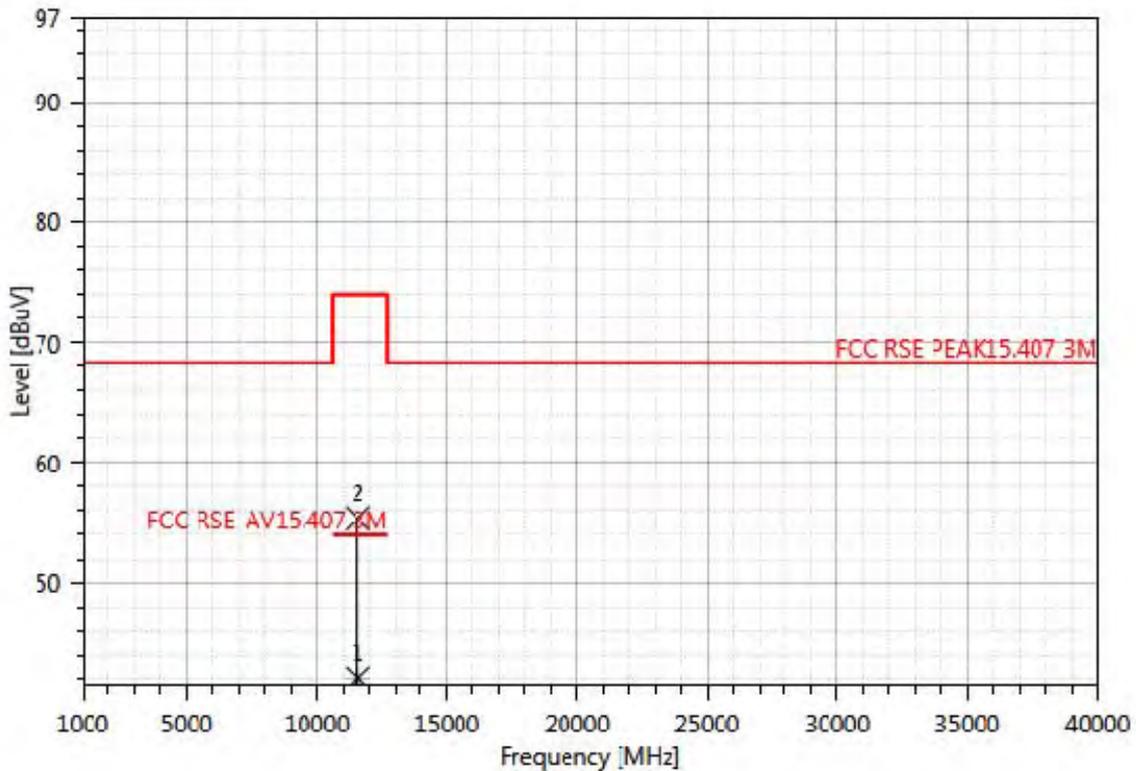
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Operation Mode :	802.11 aB4	Test Date :	12/21/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11570.00	H	Average	42.10	21.51	20.59	54.00	-11.90
11570.00	H	Peak	55.39	34.80	20.59	74.00	-18.61

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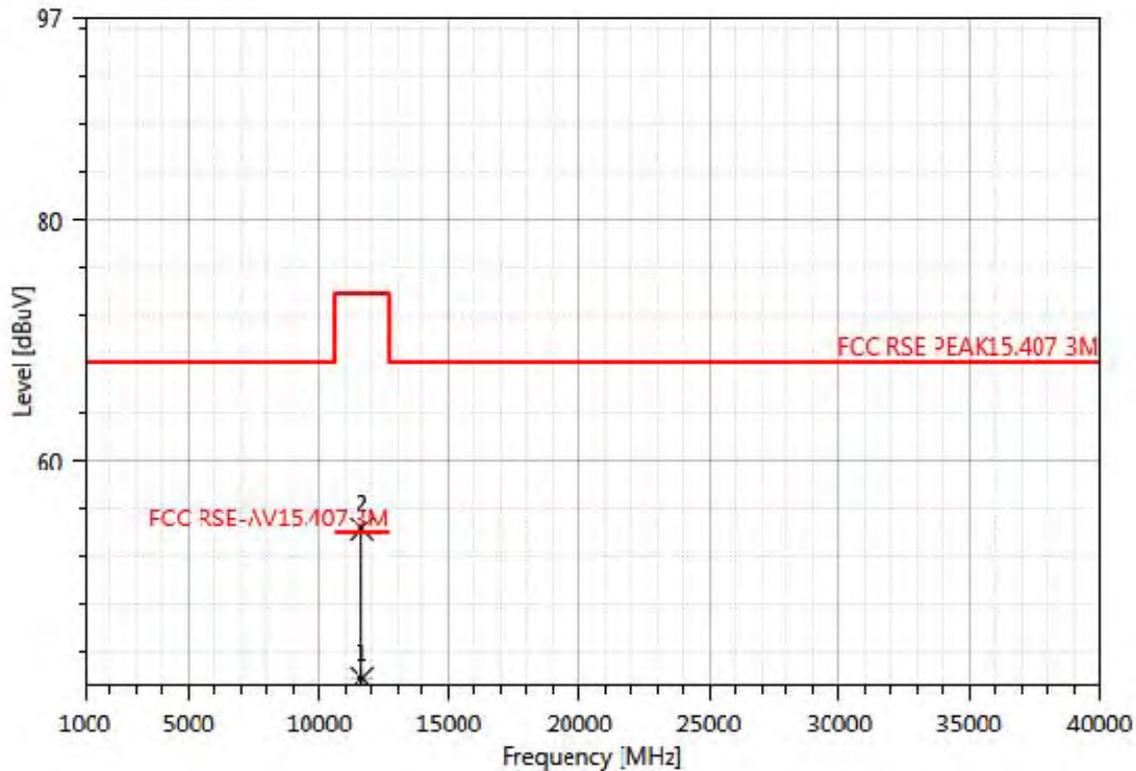
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Operation Mode :	802.11 aB4	Test Date :	12/21/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	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
11650.00	H	Average	41.85	21.42	20.43	54.00	-12.15
11650.00	H	Peak	54.31	33.88	20.43	74.00	-19.69

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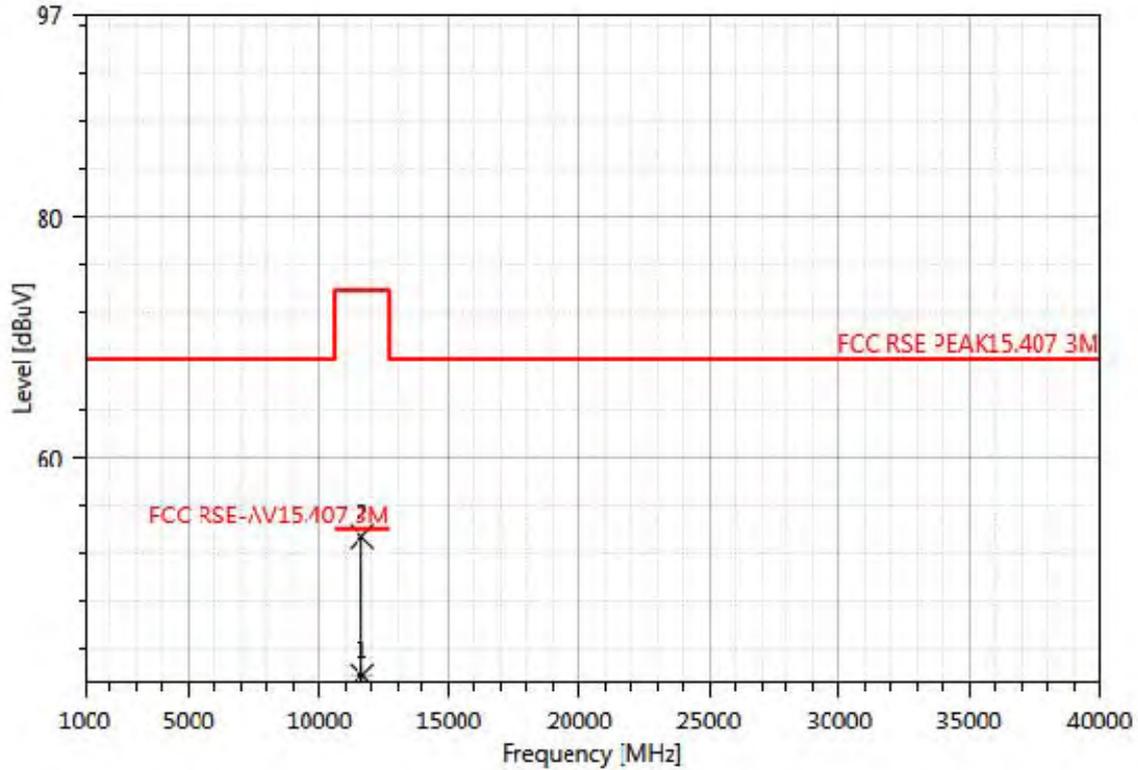
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Operation Mode :	802.11 aB4	Test Date :	12/21/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	41.83	21.40	20.43	54.00	-12.17
11650.00	H	Peak	53.38	32.95	20.43	74.00	-20.62

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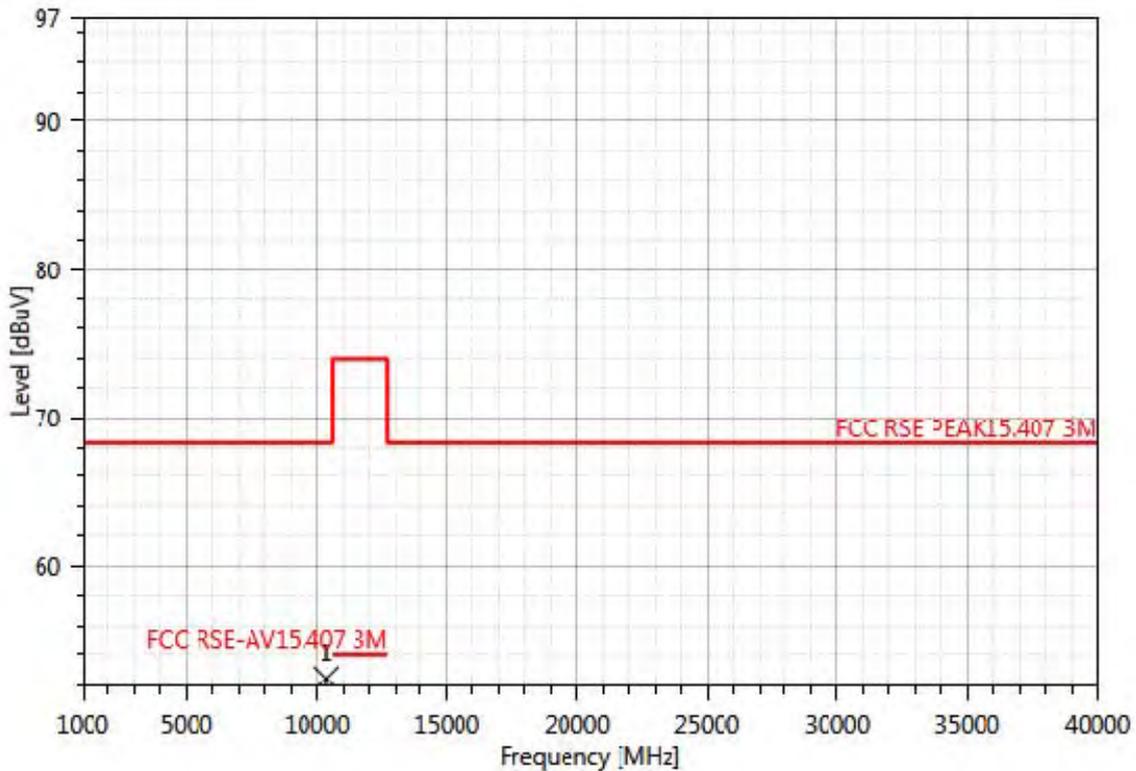
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	12/21/2016
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	52.40	34.11	18.29	68.30	-15.90

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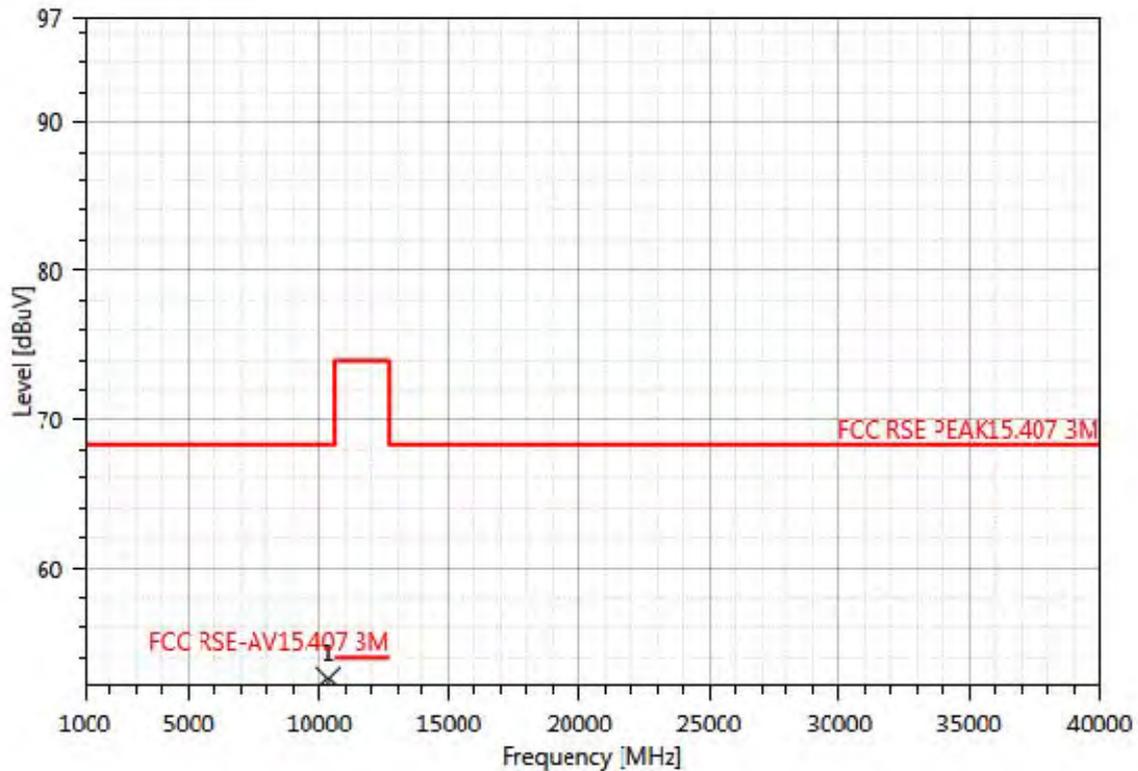
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Operation Mode :	802.11n20B1	Test Date :	12/21/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	52.60	34.31	18.29	68.30	-15.70

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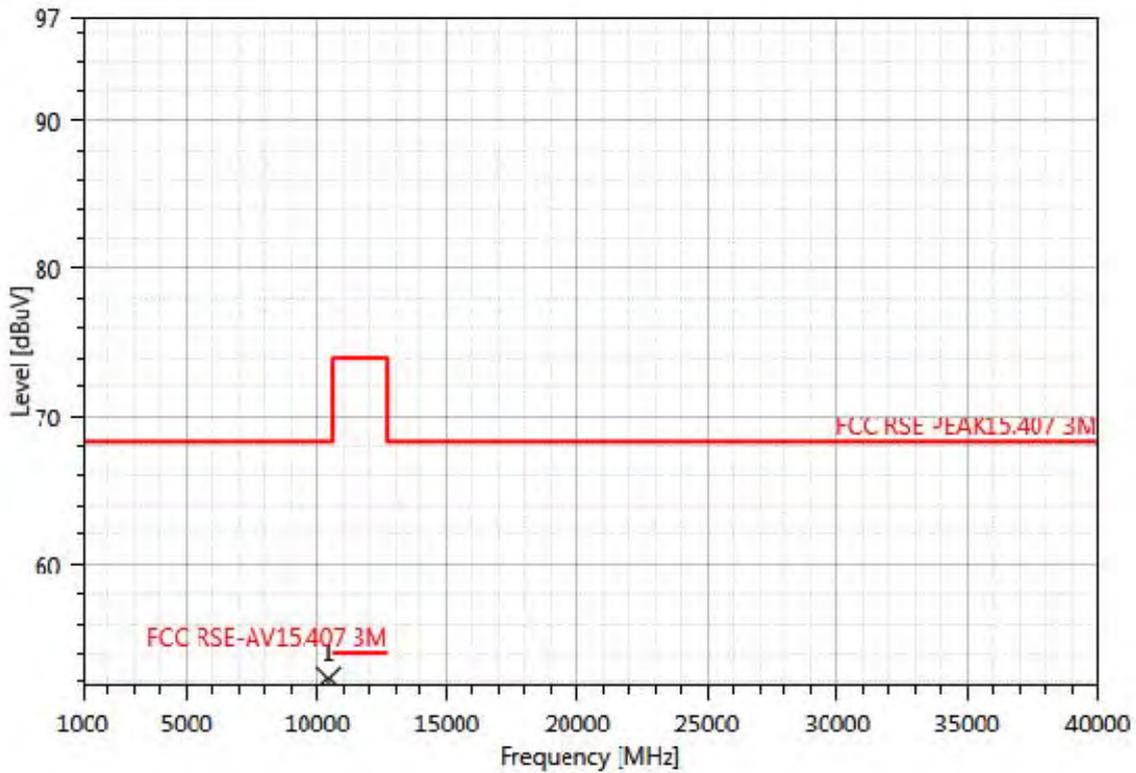
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Operation Mode :	802.11 n20B1	Test Date :	12/21/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. 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
10440.00	H	Peak	52.30	33.61	18.68	68.30	-16.00

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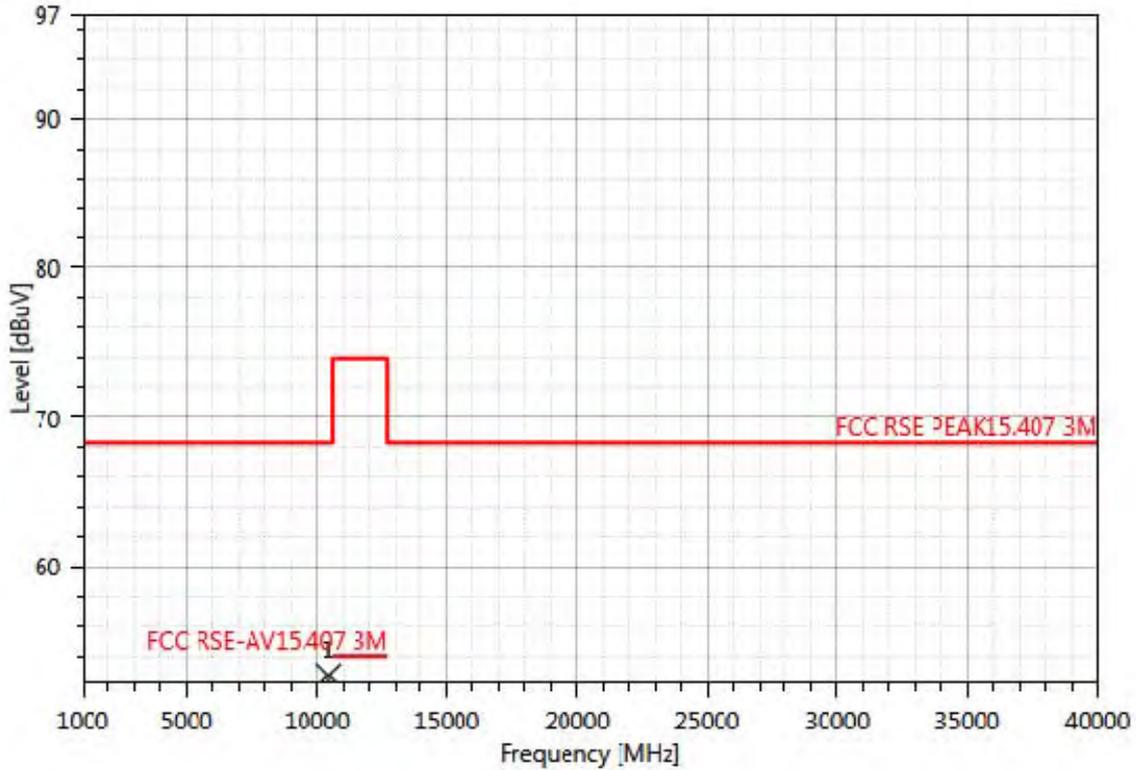
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Operation Mode :	802.11n20B1	Test Date :	12/21/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	52.71	34.03	18.68	68.30	-15.59

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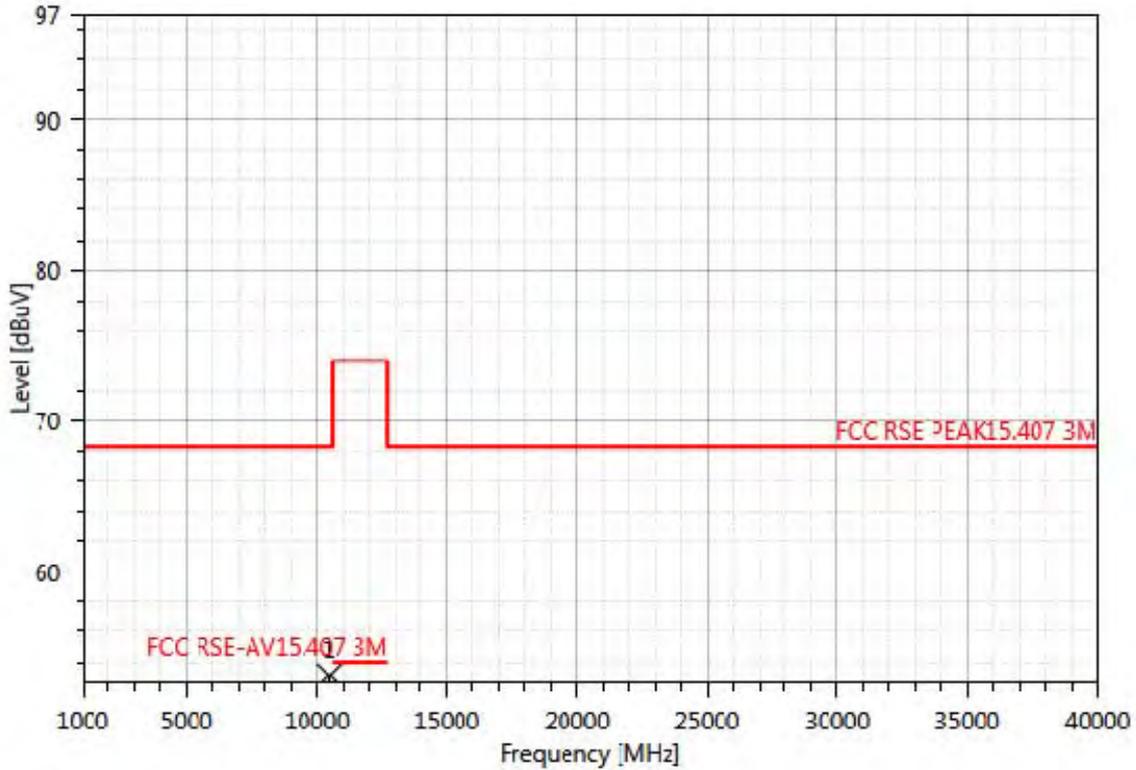
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Operation Mode :	802.11n20B1	Test Date :	12/21/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. 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
10480.00	H	Peak	53.12	34.82	18.29	68.30	-15.18

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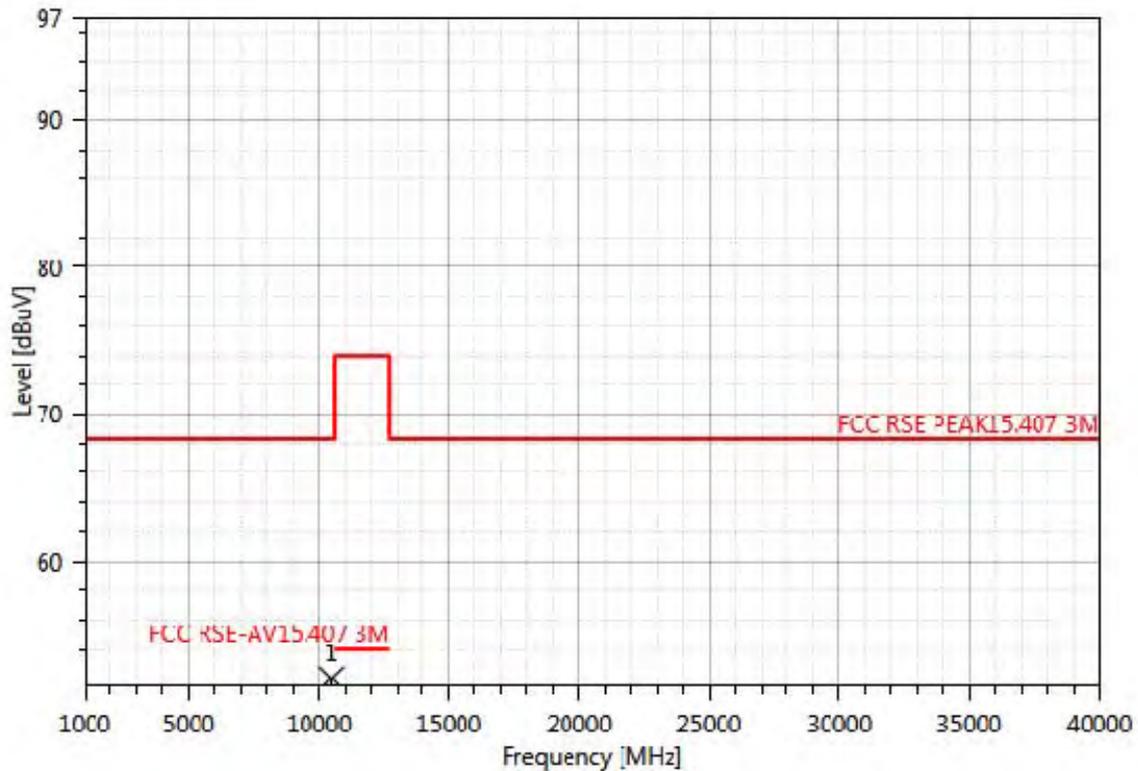
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Operation Mode :	802.11n20B1	Test Date :	12/21/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
10480.00	H	Peak	52.02	33.72	18.29	68.30	-16.28

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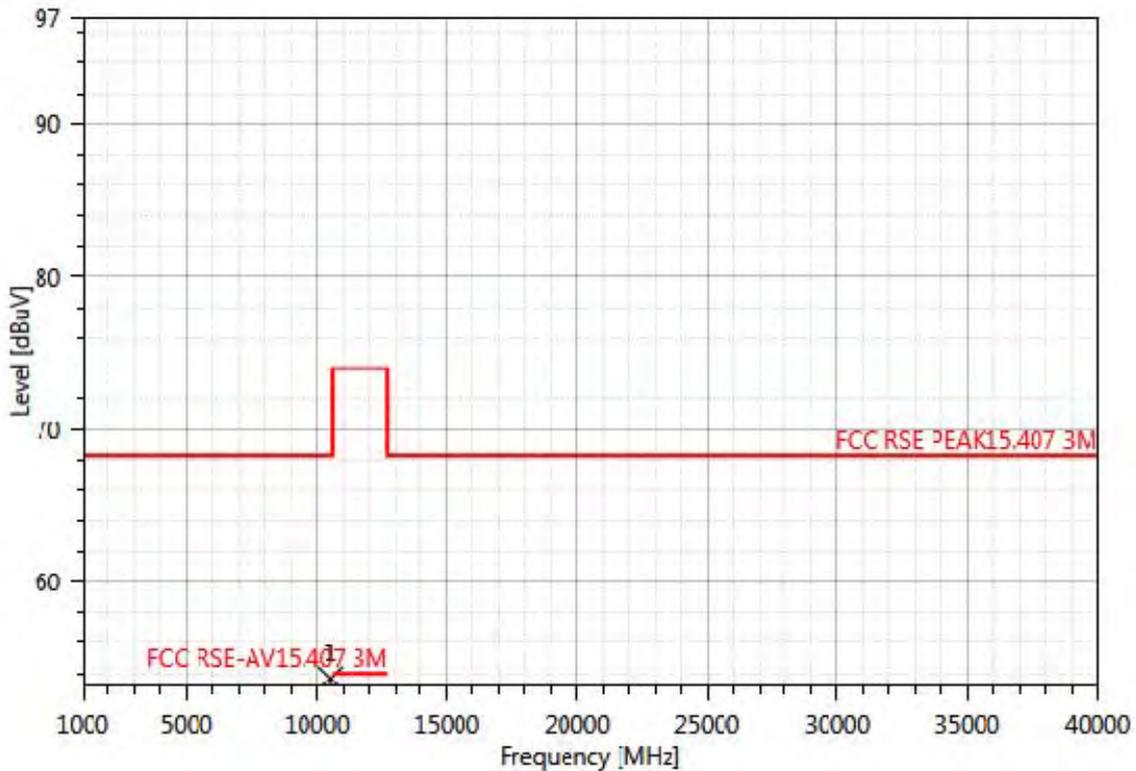
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	12/21/2016
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.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10520.00	H	Peak	53.67	34.30	19.37	68.30	-14.63

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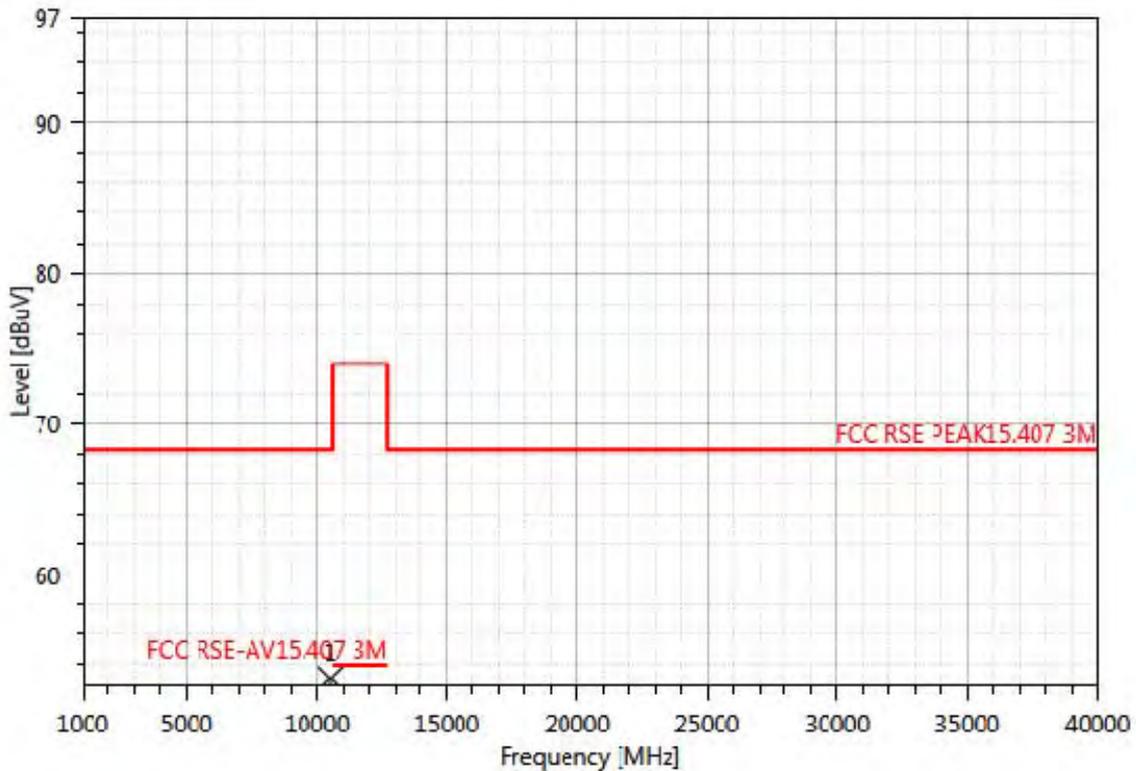
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Operation Mode :	802.11 n20B2	Test Date :	12/21/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	53.11	33.74	19.37	68.30	-15.19

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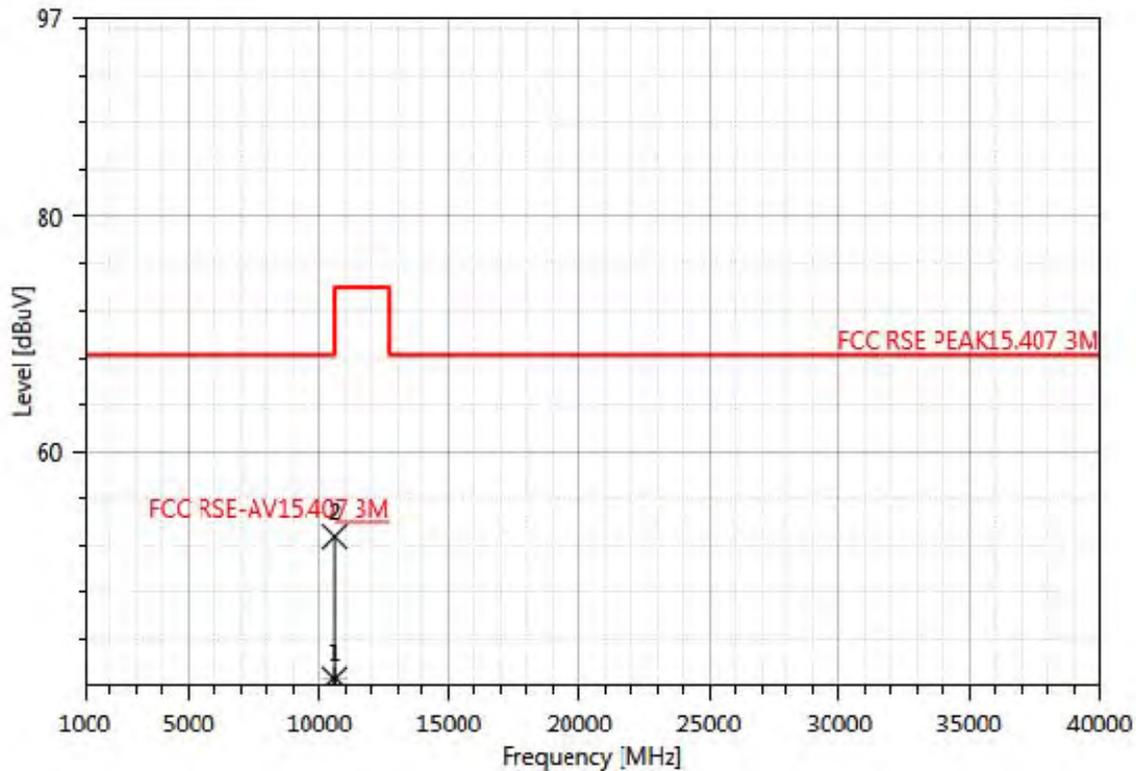
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Operation Mode :	802.11n20B2	Test Date :	12/21/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	40.69	21.78	18.91	54.00	-13.31
10600.00	H	Peak	52.72	33.81	18.91	74.00	-21.28

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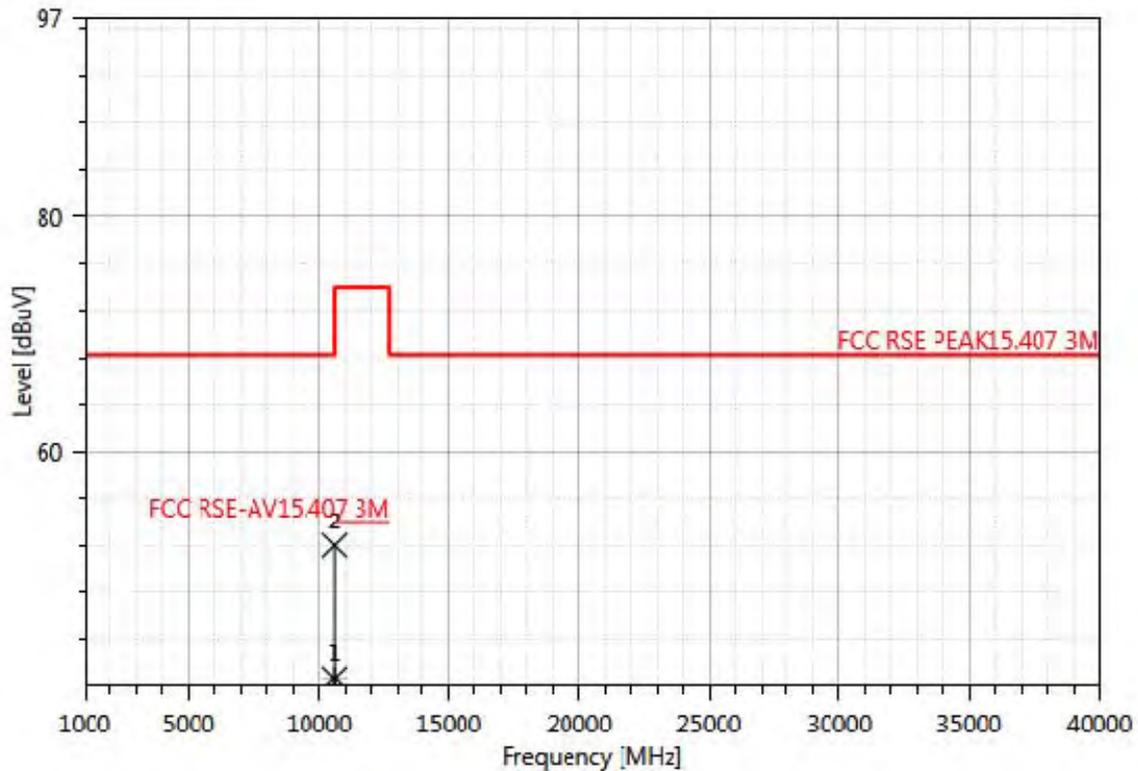
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Operation Mode :	802.11 n20B2	Test Date :	12/21/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
10600.00	H	Average	40.71	21.80	18.91	54.00	-13.29
10600.00	H	Peak	52.03	33.12	18.91	74.00	-21.97

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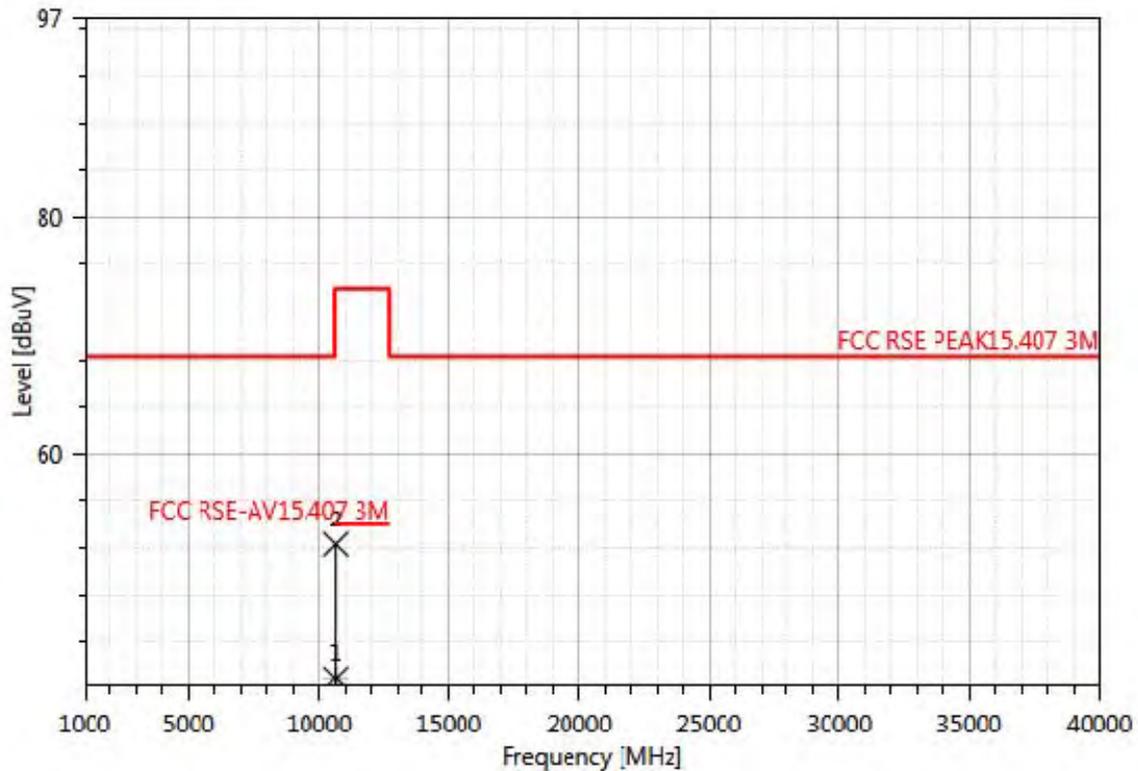
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Operation Mode :	802.11n20B2	Test Date :	12/21/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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 dB $\mu$ V/m	Margin dB
10640.00	H	Average	40.96	21.78	19.18	54.00	-13.04
10640.00	H	Peak	52.33	33.14	19.18	74.00	-21.67

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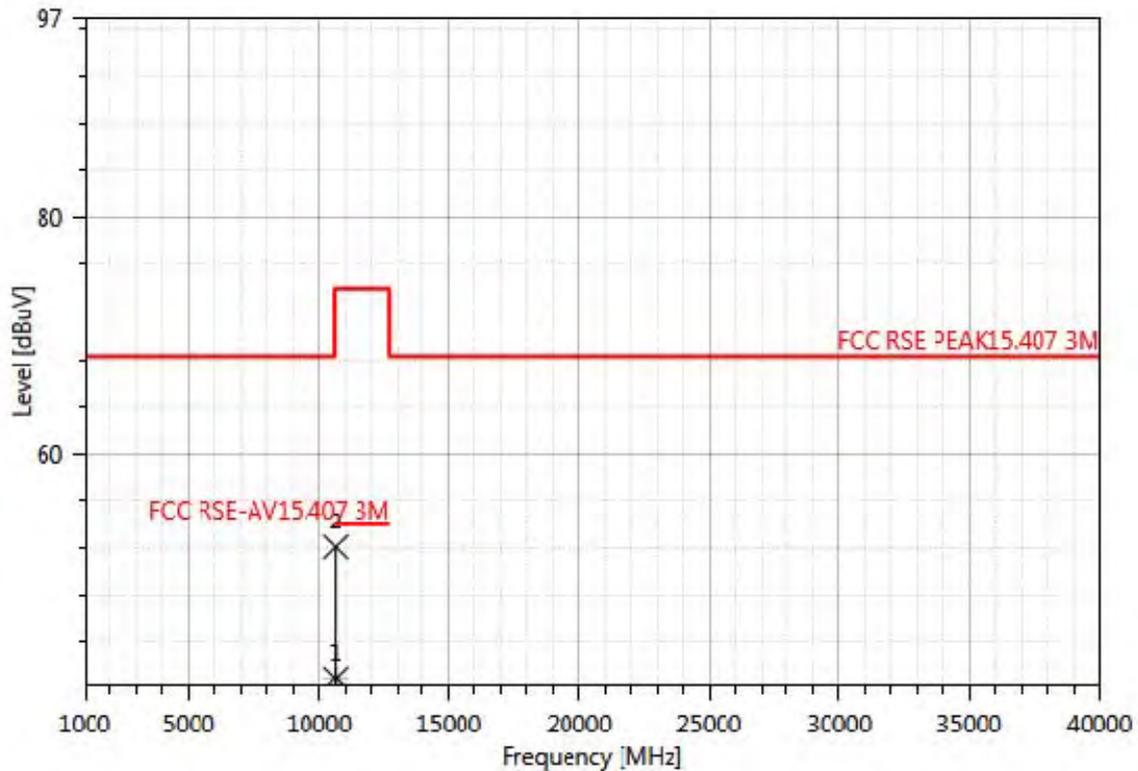
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Operation Mode :	802.11 n20B2	Test Date :	12/21/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	40.95	21.77	19.18	54.00	-13.05
10640.00	H	Peak	52.09	32.91	19.18	74.00	-21.91

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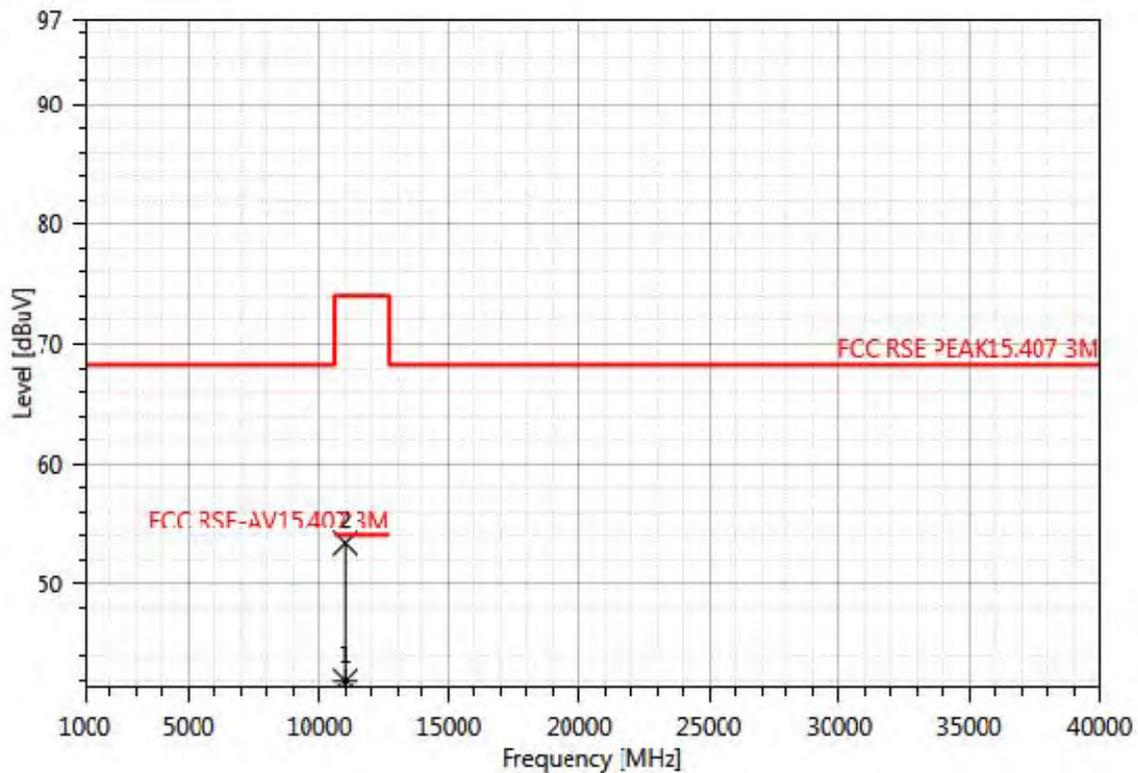
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	12/21/2016
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	41.96	21.79	20.17	54.00	-12.04
11000.00	H	Peak	53.35	33.18	20.17	74.00	-20.65

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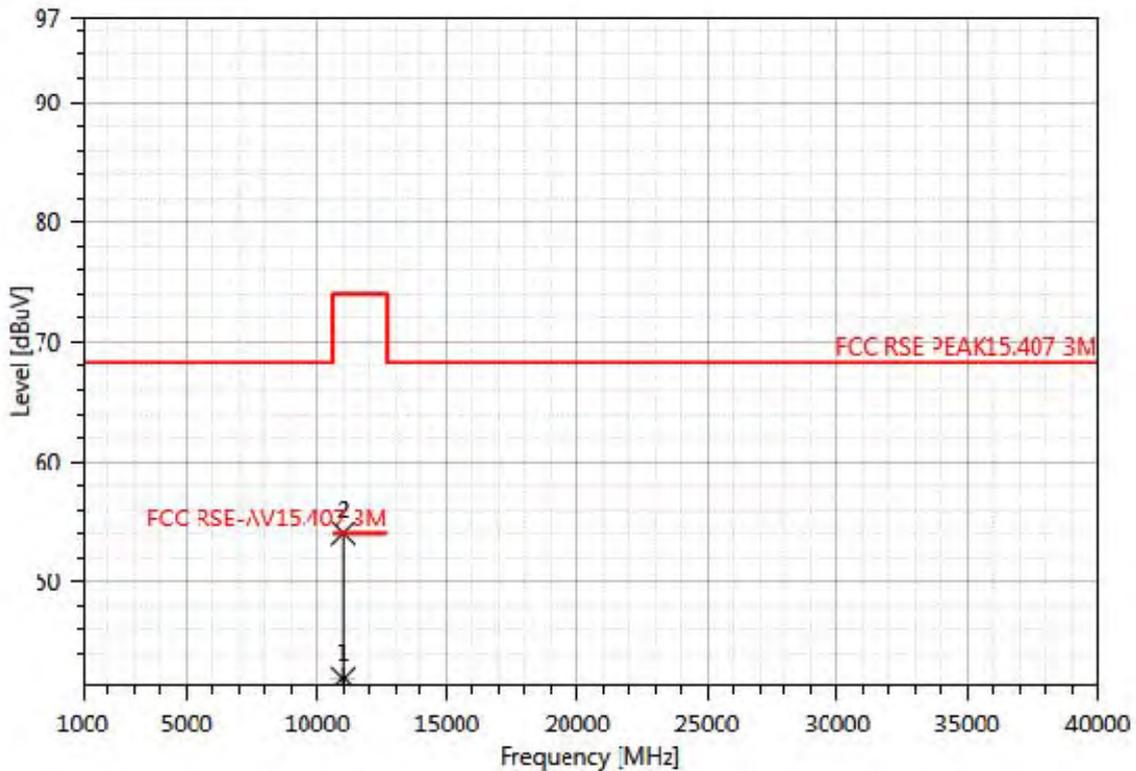
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Operation Mode :	802.11 n20B3	Test Date :	12/21/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	41.98	21.81	20.17	54.00	-12.02
11000.00	H	Peak	54.03	33.86	20.17	74.00	-19.97

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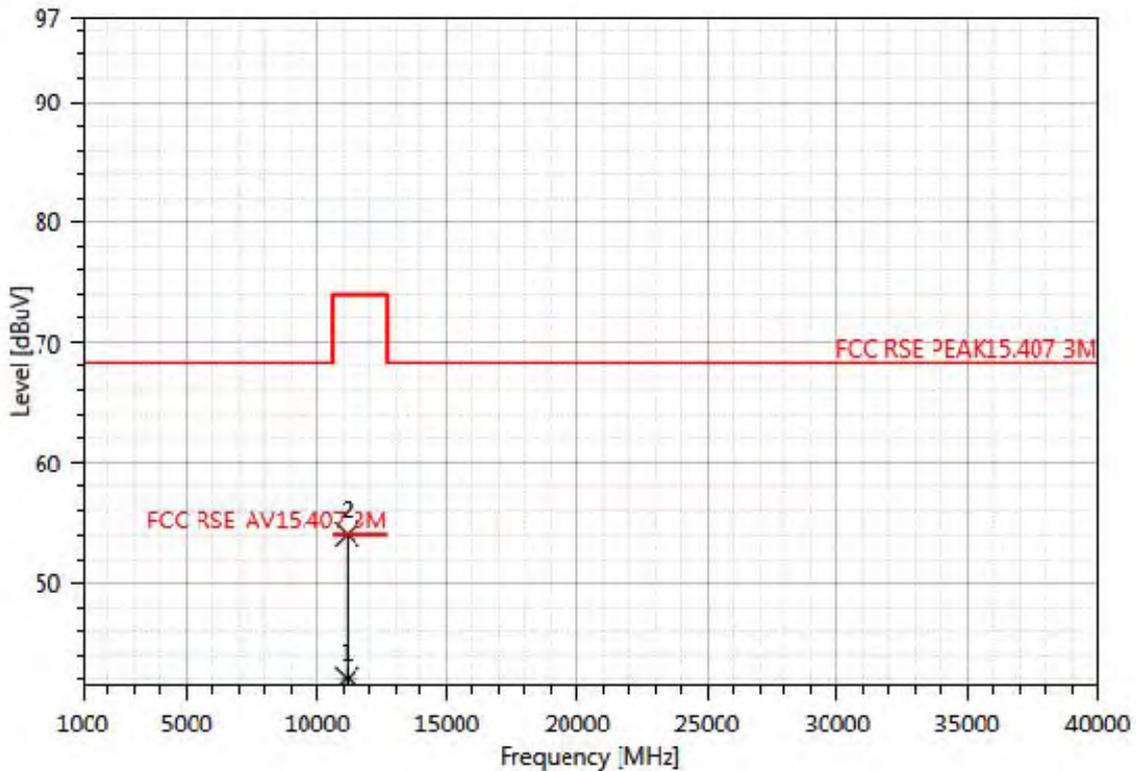
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Operation Mode :	802.11 n20B3	Test Date :	12/21/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	42.11	21.66	20.45	54.00	-11.89
11160.00	H	Peak	54.01	33.57	20.45	74.00	-19.99

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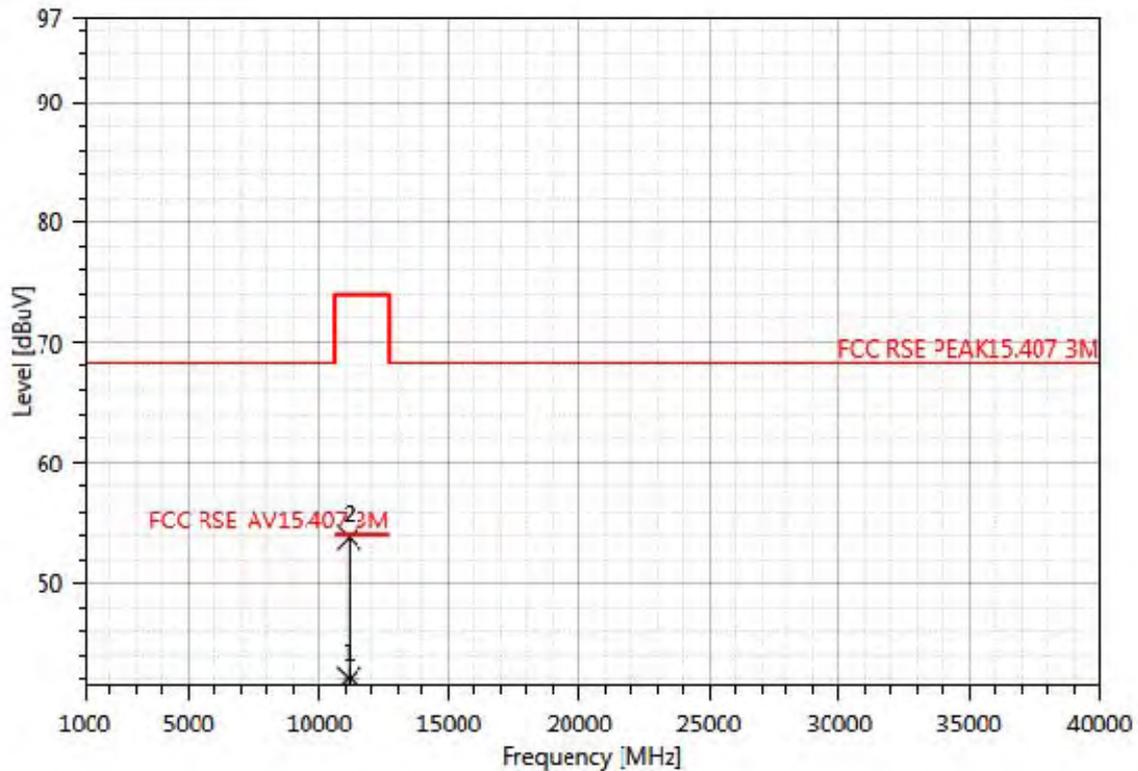
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Operation Mode :	802.11 n20B3	Test Date :	12/21/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	42.12	21.67	20.45	54.00	-11.88
11160.00	H	Peak	53.77	33.32	20.45	74.00	-20.23

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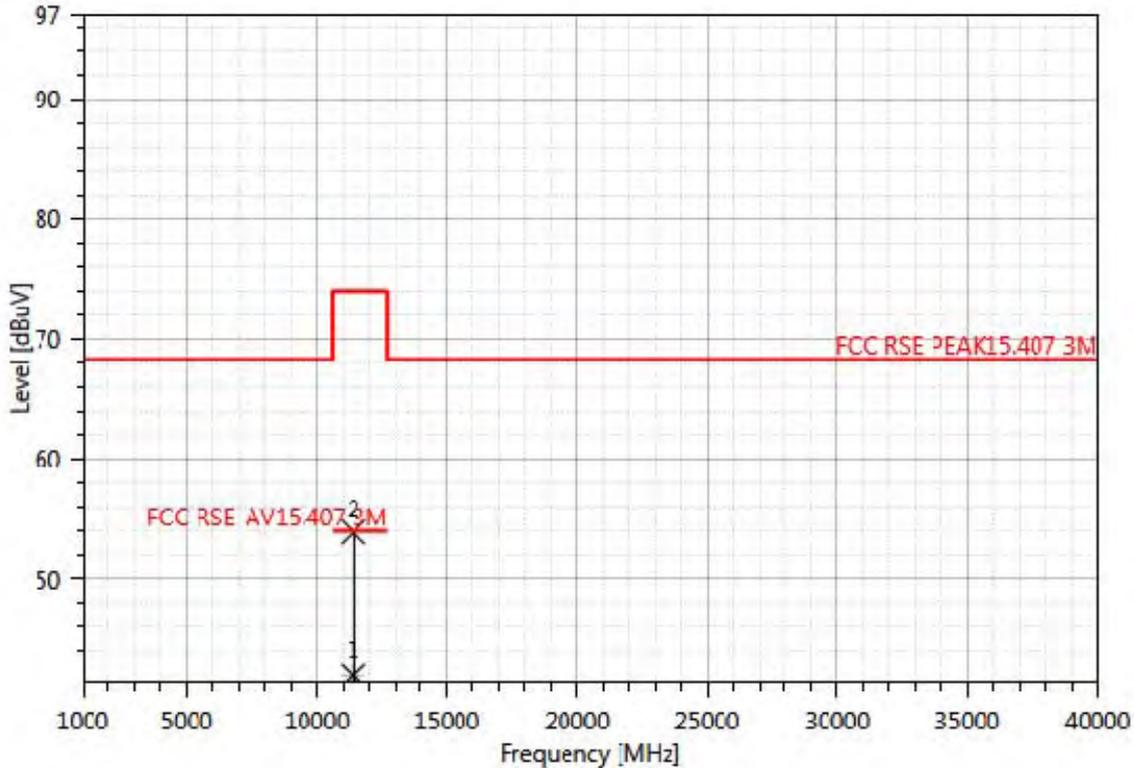
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Operation Mode :	802.11n20B3	Test Date :	12/21/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. 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
11400.00	H	Average	42.00	21.44	20.56	54.00	-12.00
11400.00	H	Peak	53.89	33.34	20.56	74.00	-20.11

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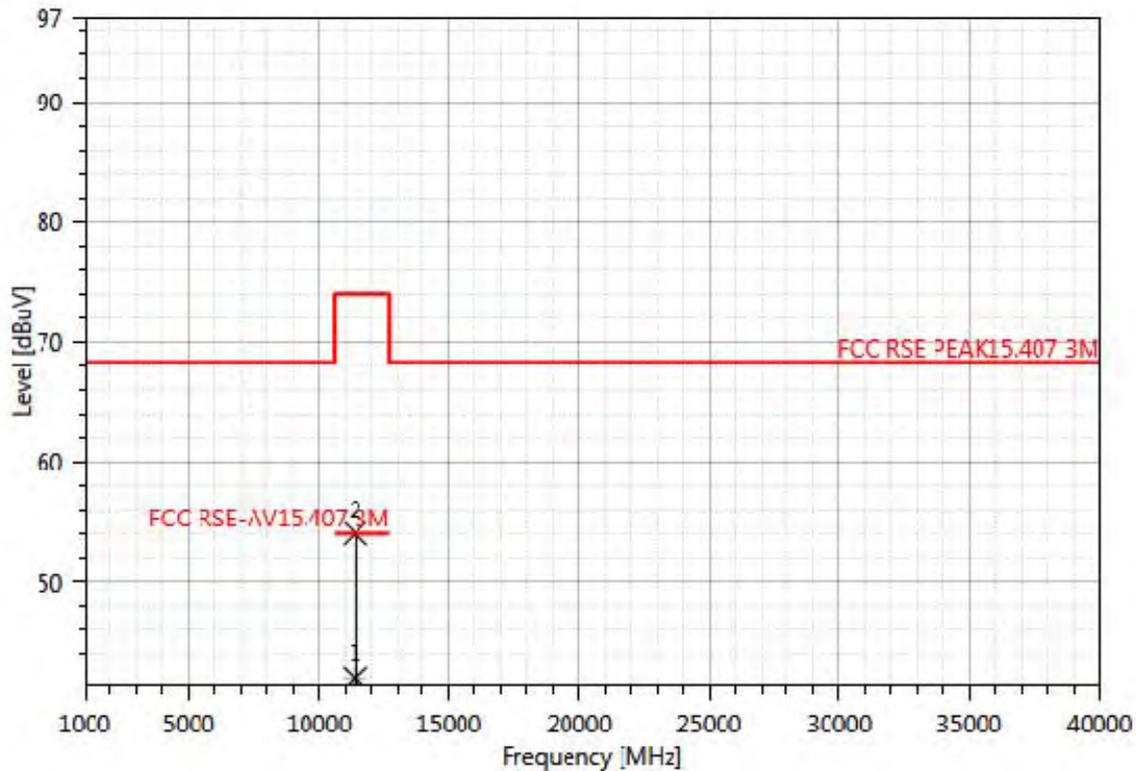
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Operation Mode :	802.11 n20B3	Test Date :	12/21/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11400.00	H	Average	41.99	21.43	20.56	54.00	-12.01
11400.00	H	Peak	54.05	33.49	20.56	74.00	-19.95

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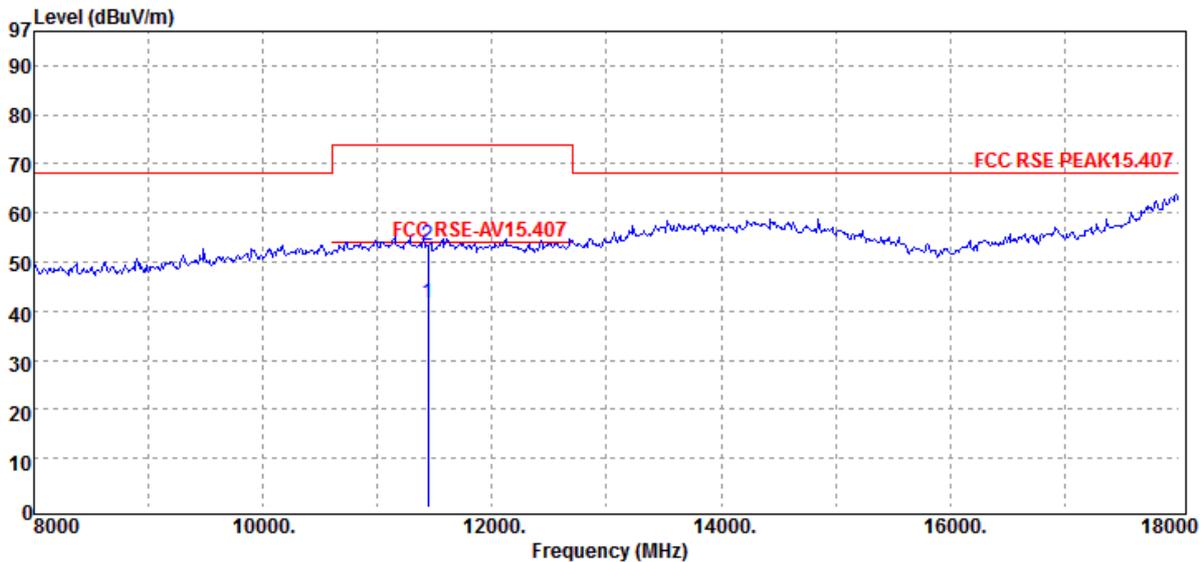
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Operation Mode :	802.11ac20B3	Test Date :	12/21/2016
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11440.00	H	Average	21.17	20.44	41.61	54.00	-12.39
11440.00	H	Peak	32.94	20.44	53.38	74.00	-20.62

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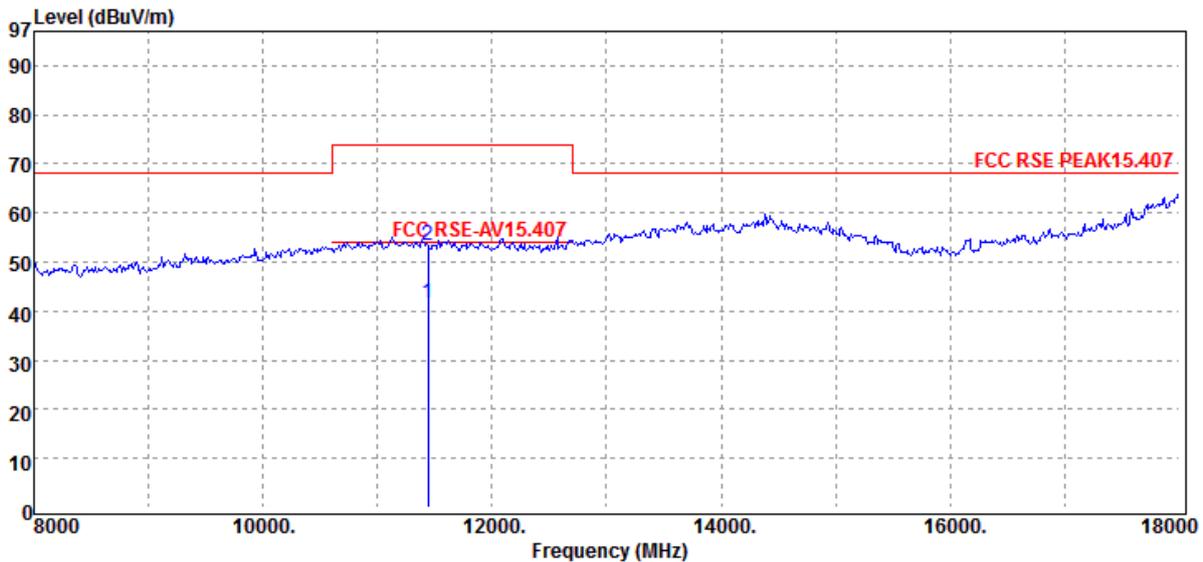
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Operation Mode :	802.11ac20B3	Test Date :	12/21/2016
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11440.00	H	Average	21.14	20.44	41.58	54.00	-12.42
11440.00	H	Peak	32.88	20.44	53.32	74.00	-20.68

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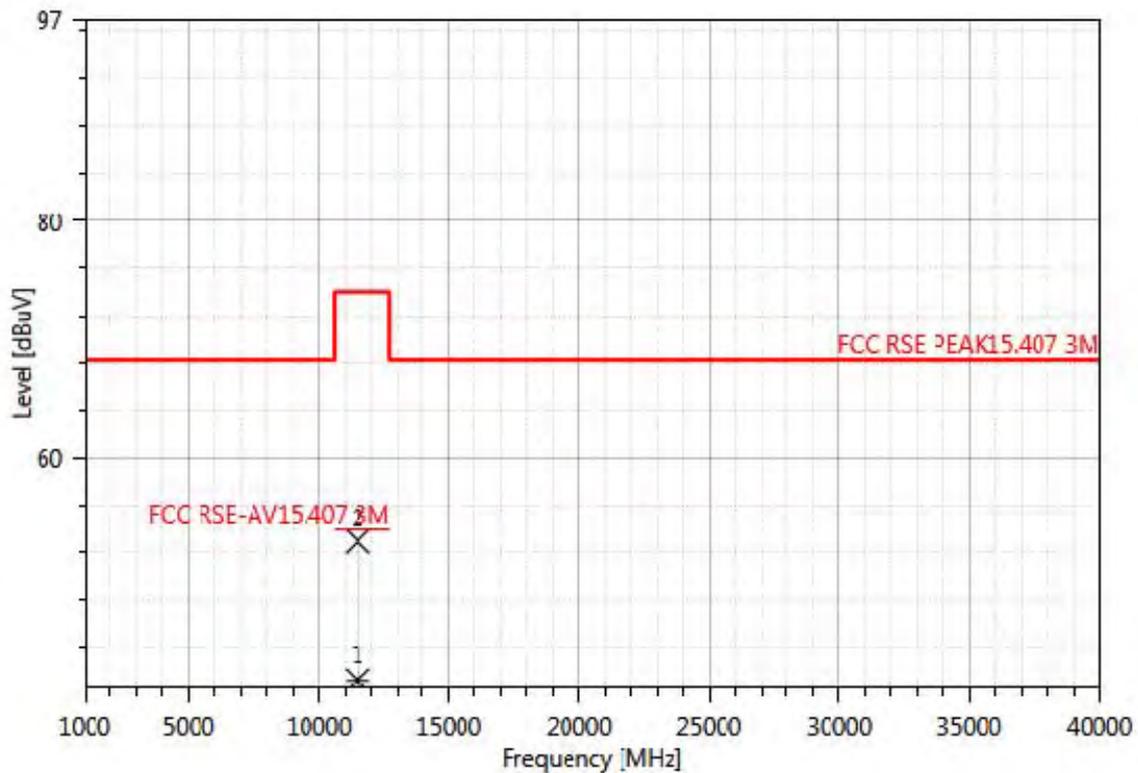
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	12/21/2016
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 dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	41.22	20.80	20.42	54.00	-12.78
11490.00	H	Peak	52.93	32.51	20.42	74.00	-21.07

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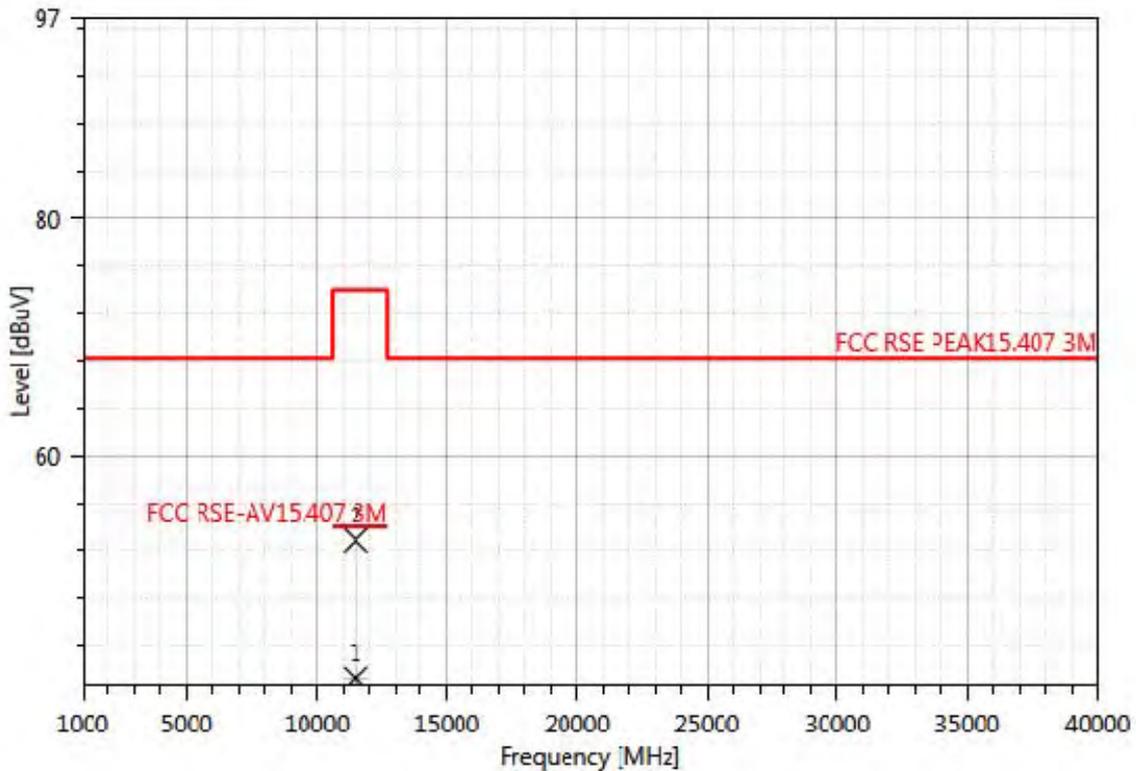
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Operation Mode :	802.11n20B4	Test Date :	12/21/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	41.24	20.82	20.42	54.00	-12.76
11490.00	H	Peak	52.86	32.44	20.42	74.00	-21.14

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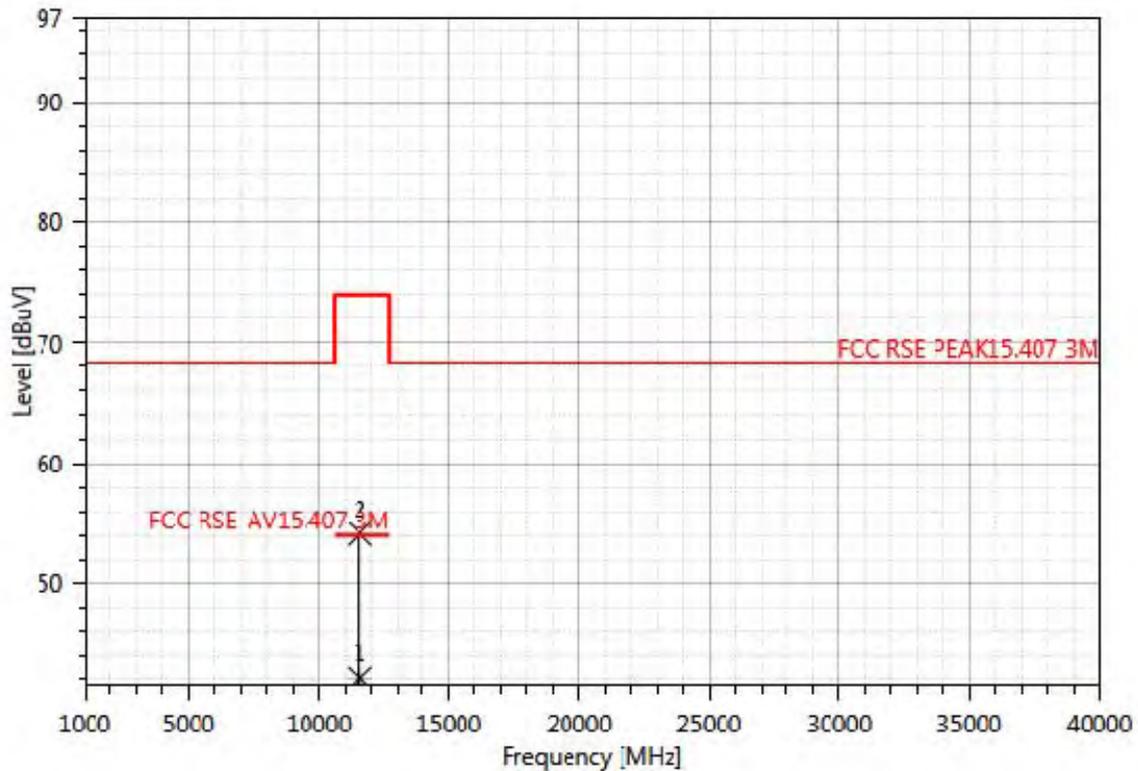
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Operation Mode :	802.11 n20B4	Test Date :	12/21/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. 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
11570.00	H	Average	42.15	21.56	20.59	54.00	-11.85
11570.00	H	Peak	54.15	33.56	20.59	74.00	-19.85

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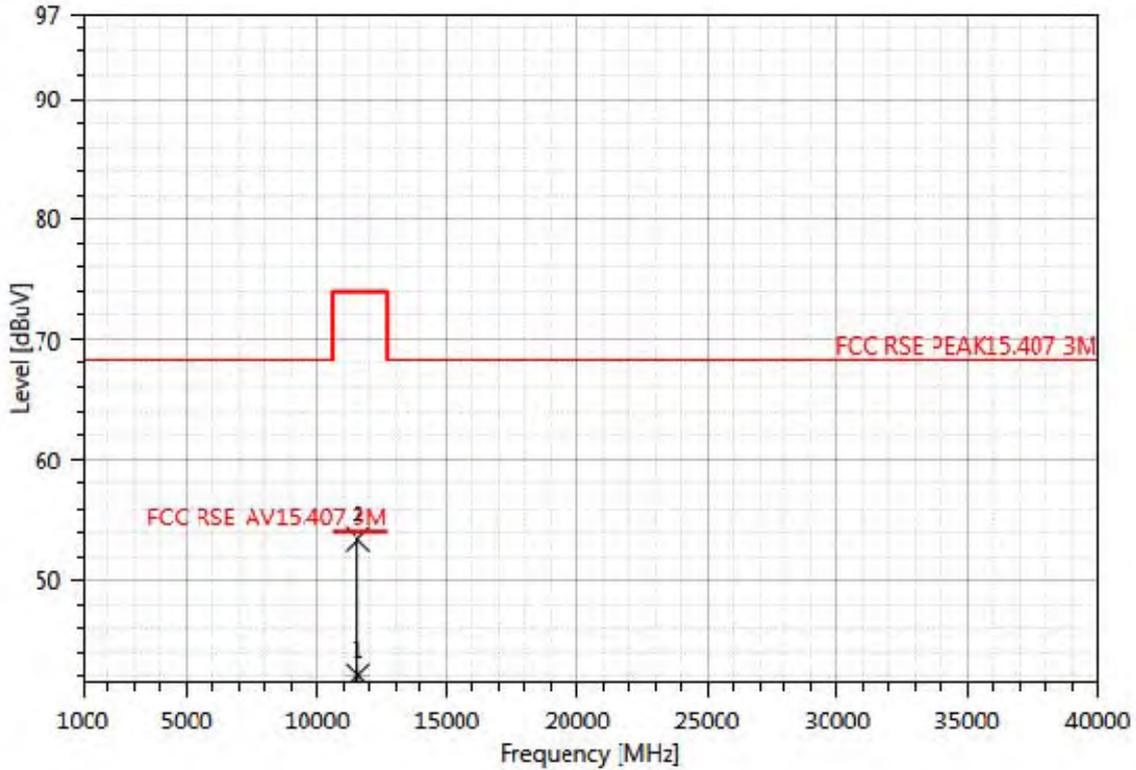
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Operation Mode :	802.11n20B4	Test Date :	12/21/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11570.00	H	Average	42.12	21.53	20.59	54.00	-11.88
11570.00	H	Peak	53.41	32.82	20.59	74.00	-20.59

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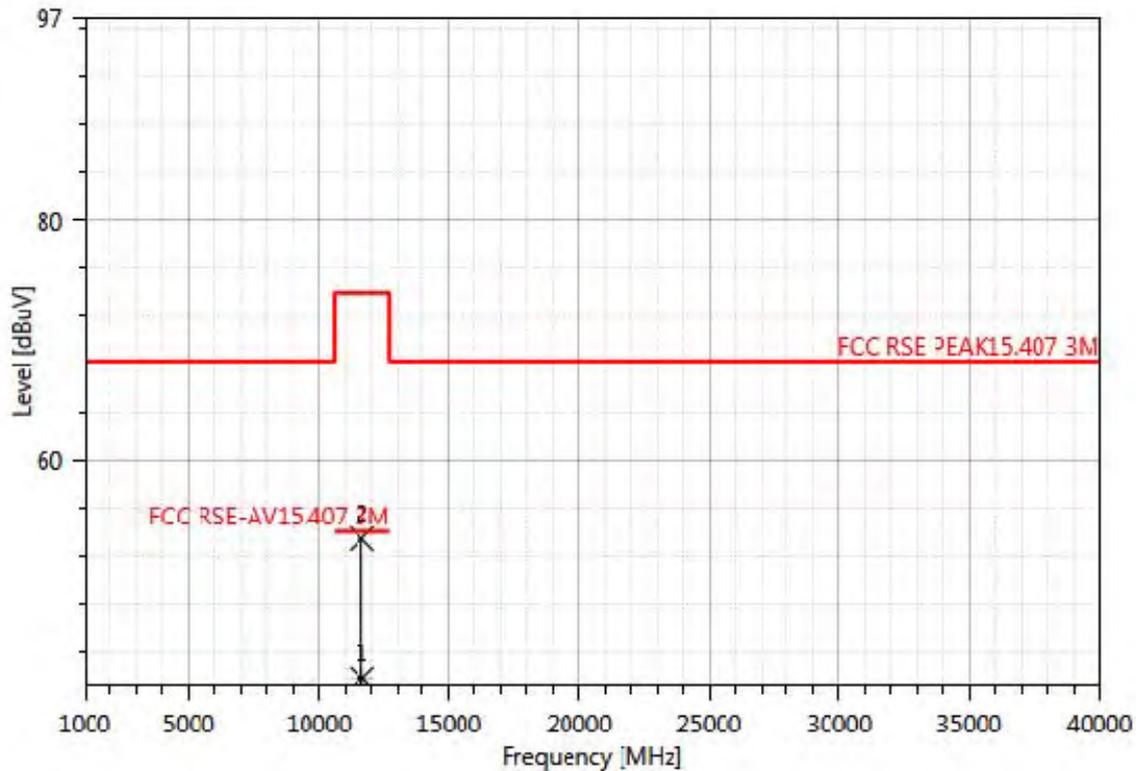
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Operation Mode :	802.11n20B4	Test Date :	12/21/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	41.75	21.32	20.43	54.00	-12.25
11650.00	H	Peak	53.42	32.98	20.43	74.00	-20.58

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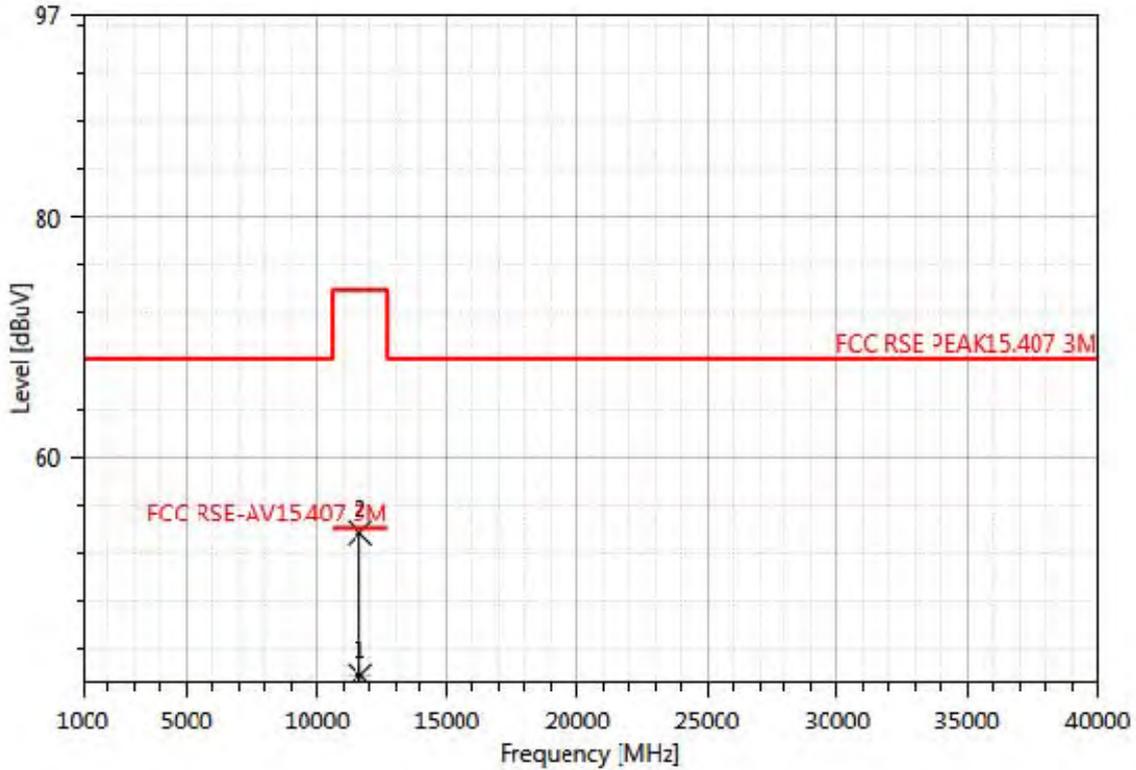
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Operation Mode :	802.11 n20B4	Test Date :	12/21/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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	41.75	21.32	20.43	54.00	-12.25
11650.00	H	Peak	53.62	33.19	20.43	74.00	-20.38

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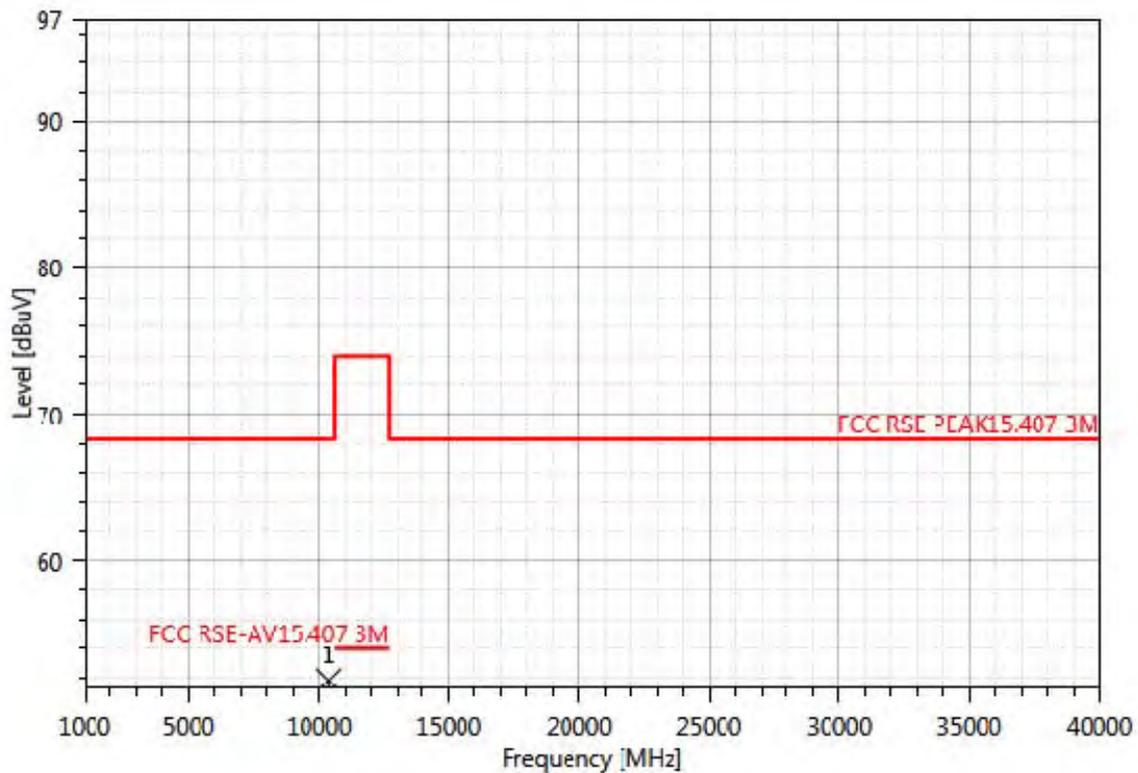
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	12/21/2016
Fundamental Frequency :	5190 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.	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
10380.00	H	Peak	51.81	33.69	18.12	68.30	-16.49

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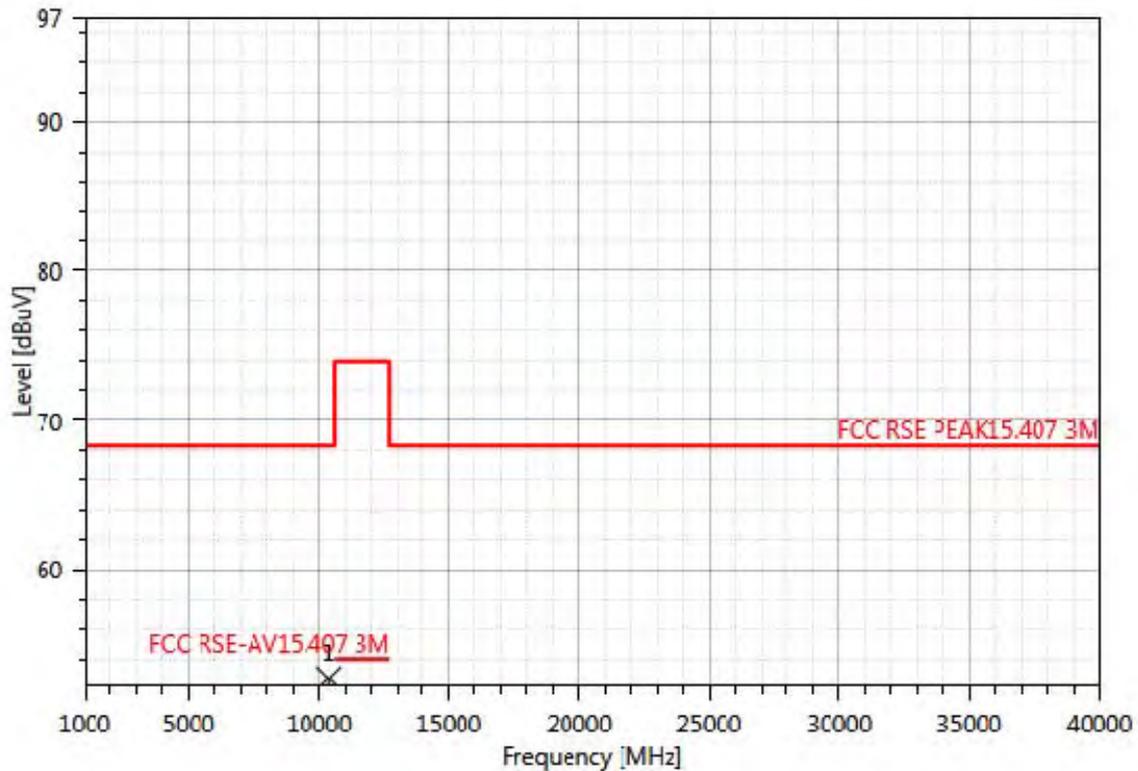
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Operation Mode :	802.11n40B1	Test Date :	12/21/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
10380.00	H	Peak	52.71	34.58	18.12	68.30	-15.59

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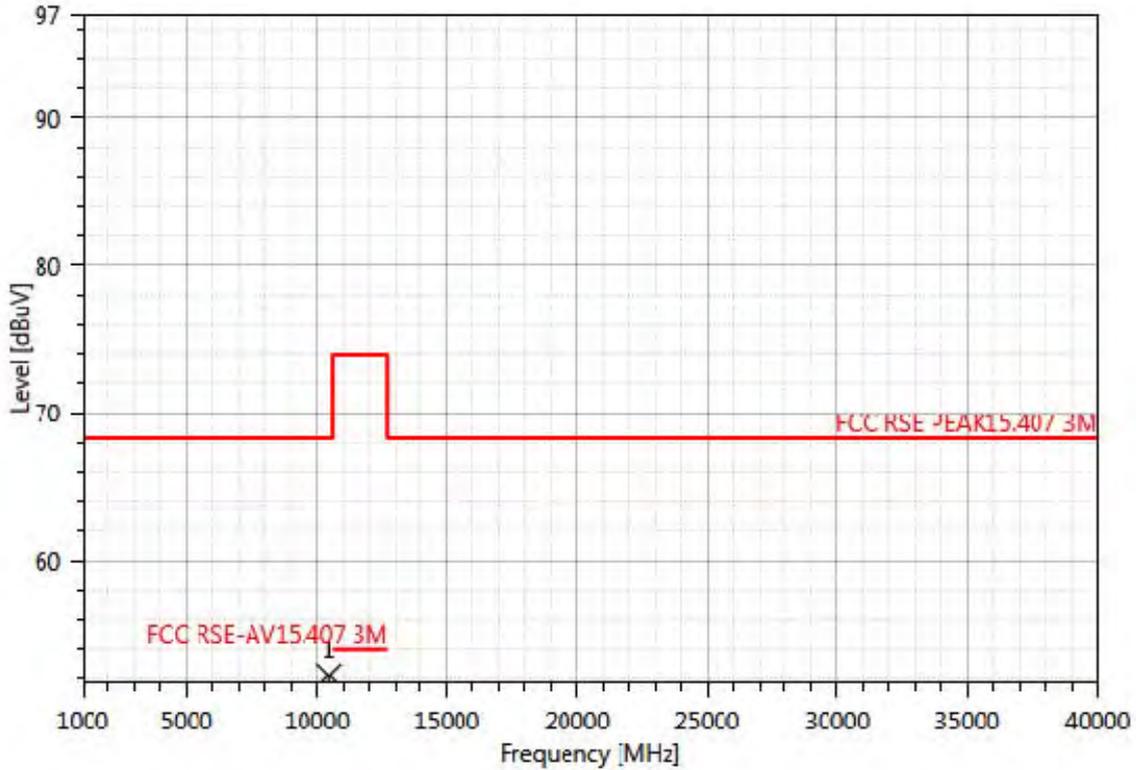
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Operation Mode :	802.11n40B1	Test Date :	12/21/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10460.00	H	Peak	52.24	33.70	18.54	68.30	-16.06

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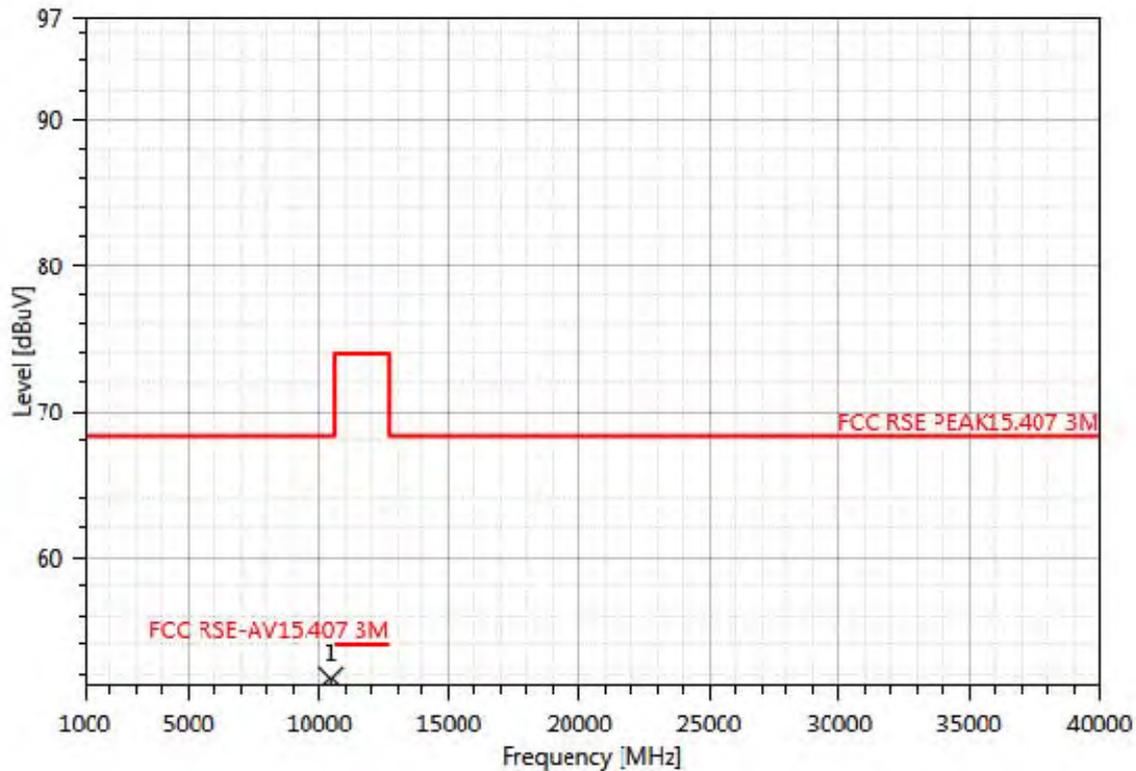
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Operation Mode :	802.11n40B1	Test Date :	12/21/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	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
10460.00	H	Peak	51.71	33.17	18.54	68.30	-16.59

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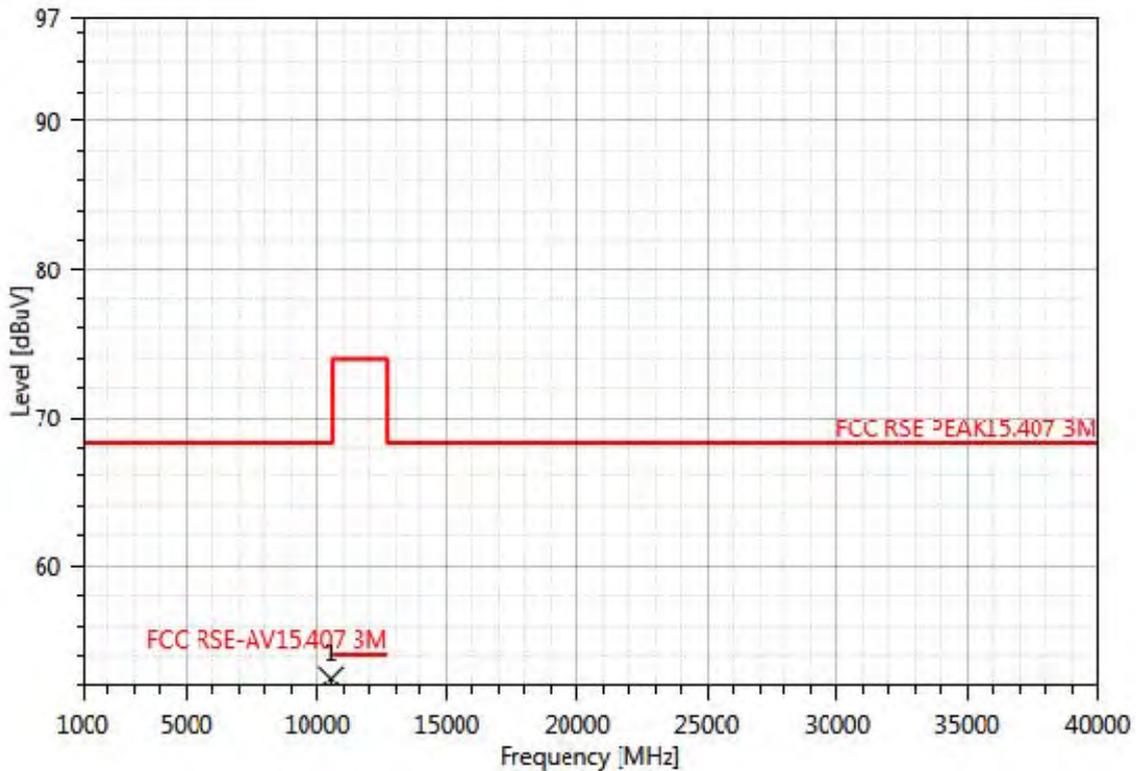
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	12/21/2016
Fundamental Frequency :	5270 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.	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
10540.00	H	Peak	52.42	33.25	19.17	68.30	-15.88

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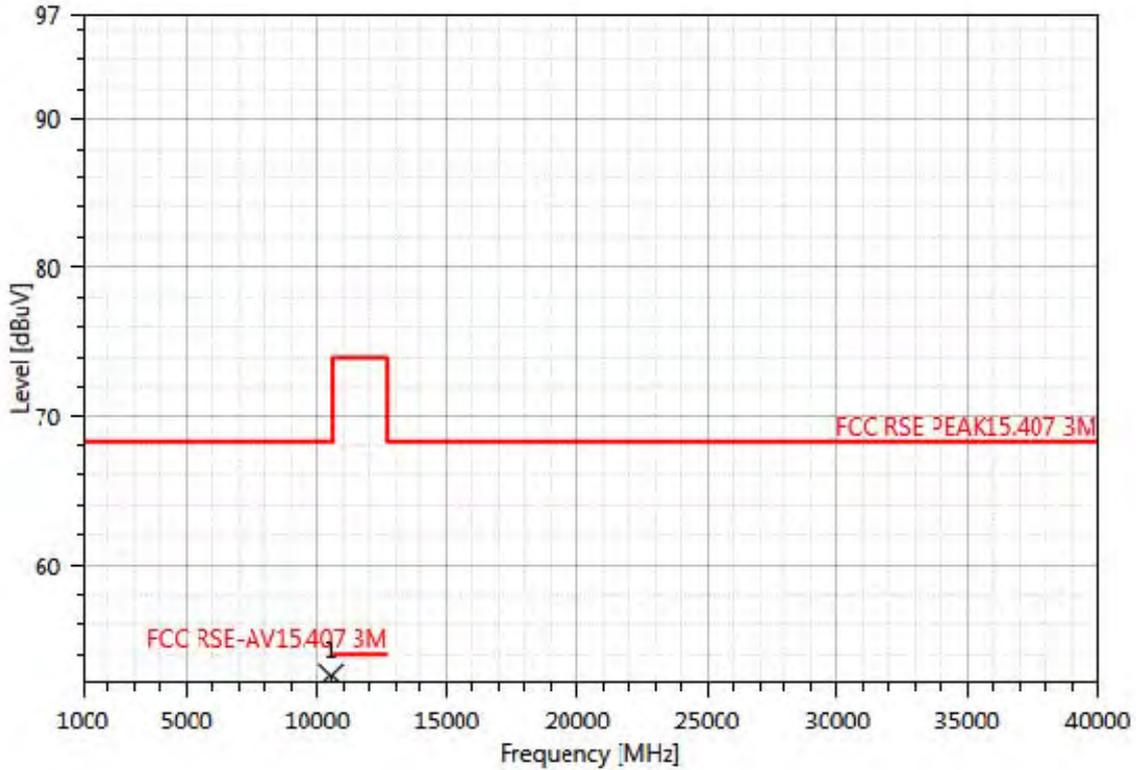
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Operation Mode :	802.11n40B2	Test Date :	12/21/2016
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
10540.00	H	Peak	52.60	33.43	19.17	68.30	-15.70

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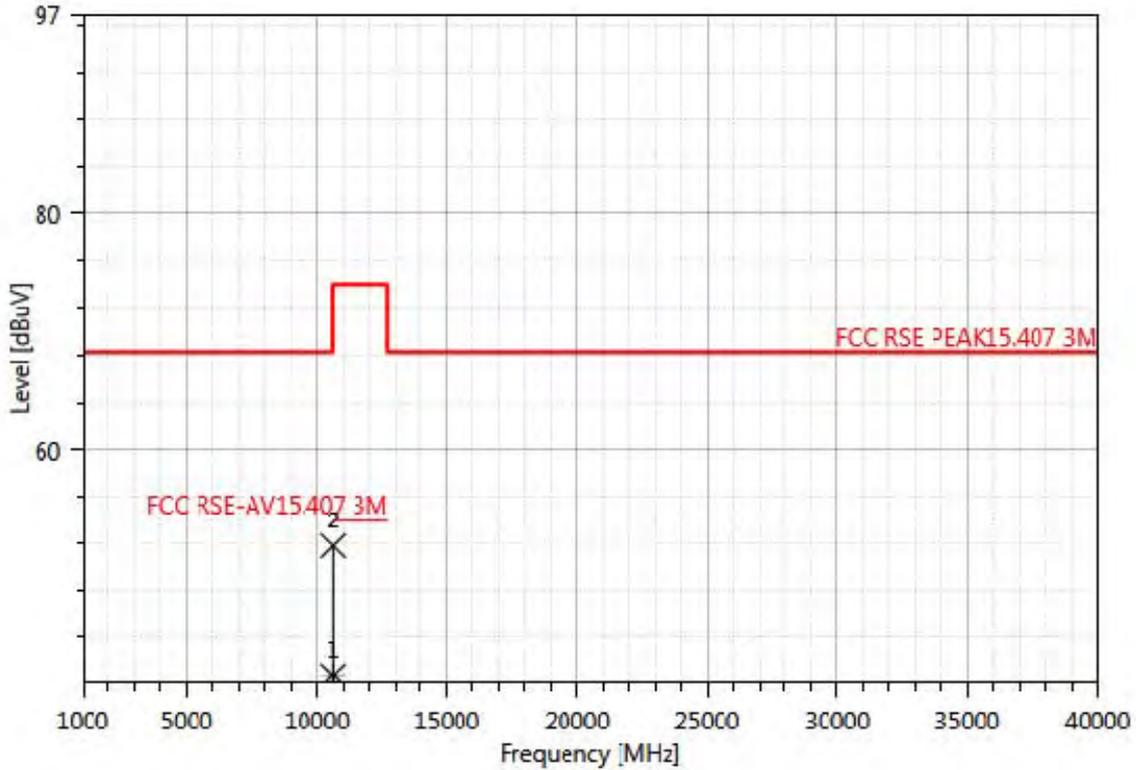
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Operation Mode :	802.11n40B2	Test Date :	12/21/2016
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10620.00	H	Average	40.76	21.65	19.11	54.00	-13.24
10620.00	H	Peak	51.80	32.69	19.11	74.00	-22.20

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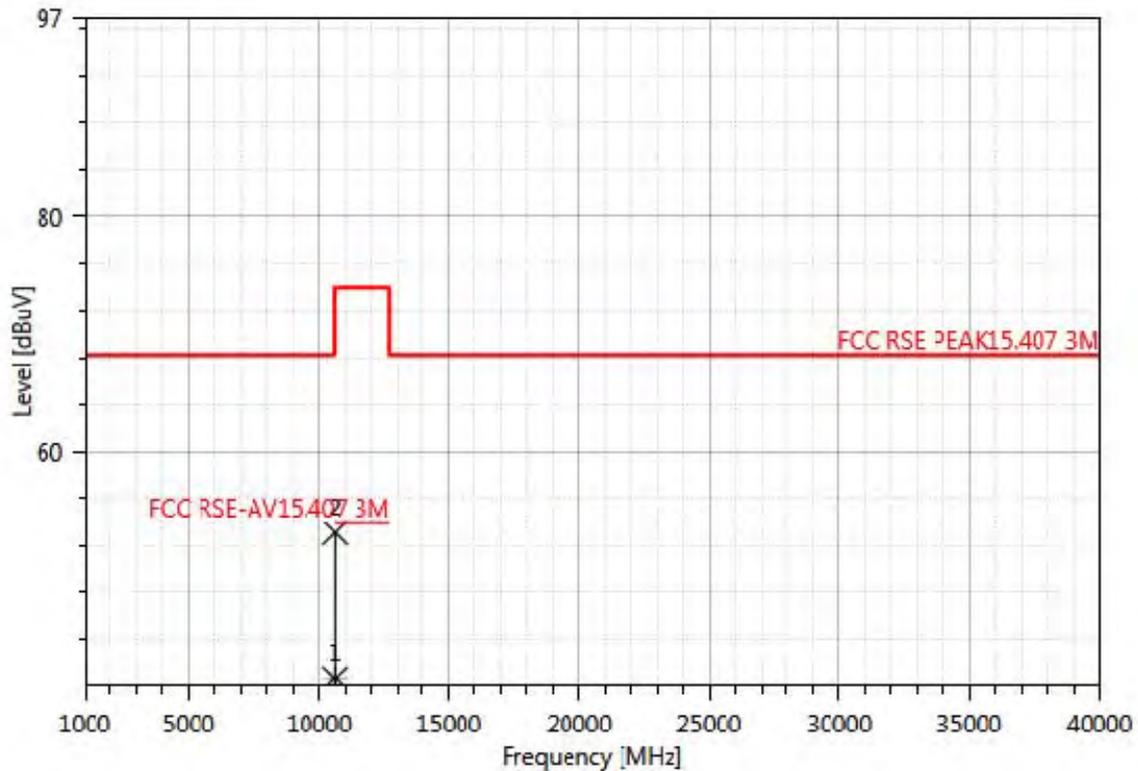
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Operation Mode :	802.11n40B2	Test Date :	12/21/2016
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	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
10620.00	H	Average	40.74	21.63	19.11	54.00	-13.26
10620.00	H	Peak	53.12	34.02	19.11	74.00	-20.88

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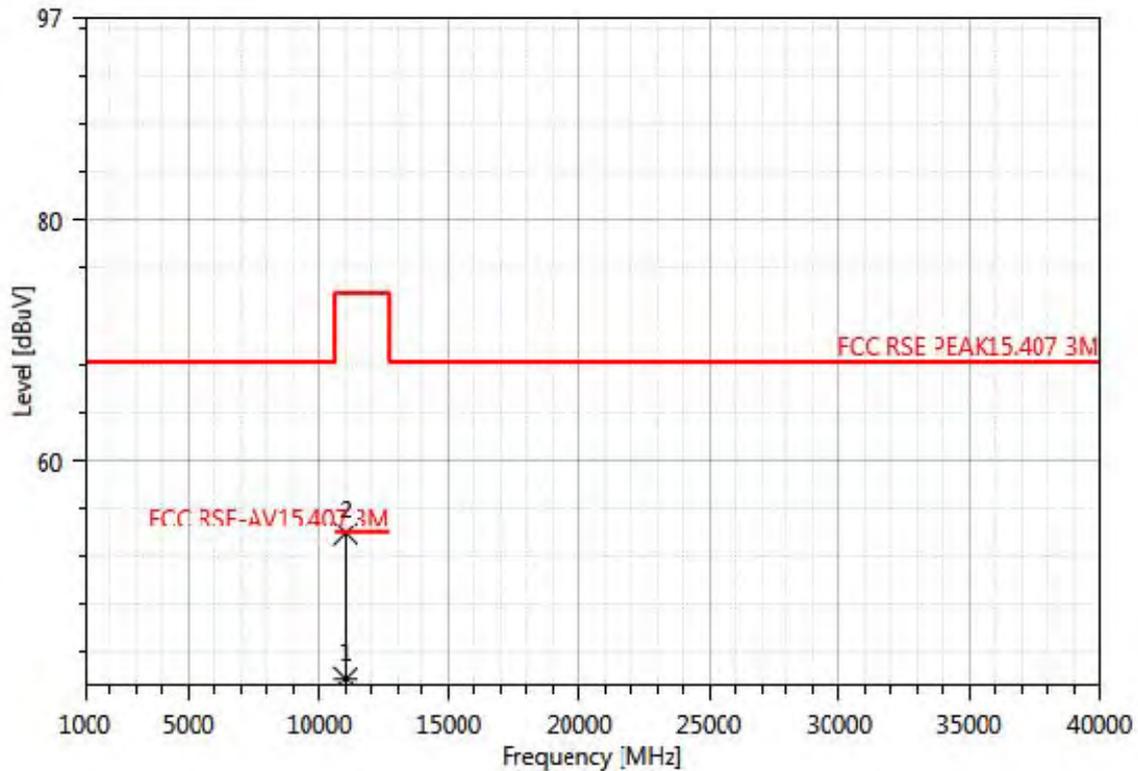
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	12/21/2016
Fundamental Frequency :	5510 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
11020.00	H	Average	41.83	21.67	20.16	54.00	-12.17
11020.00	H	Peak	53.90	33.74	20.16	74.00	-20.10

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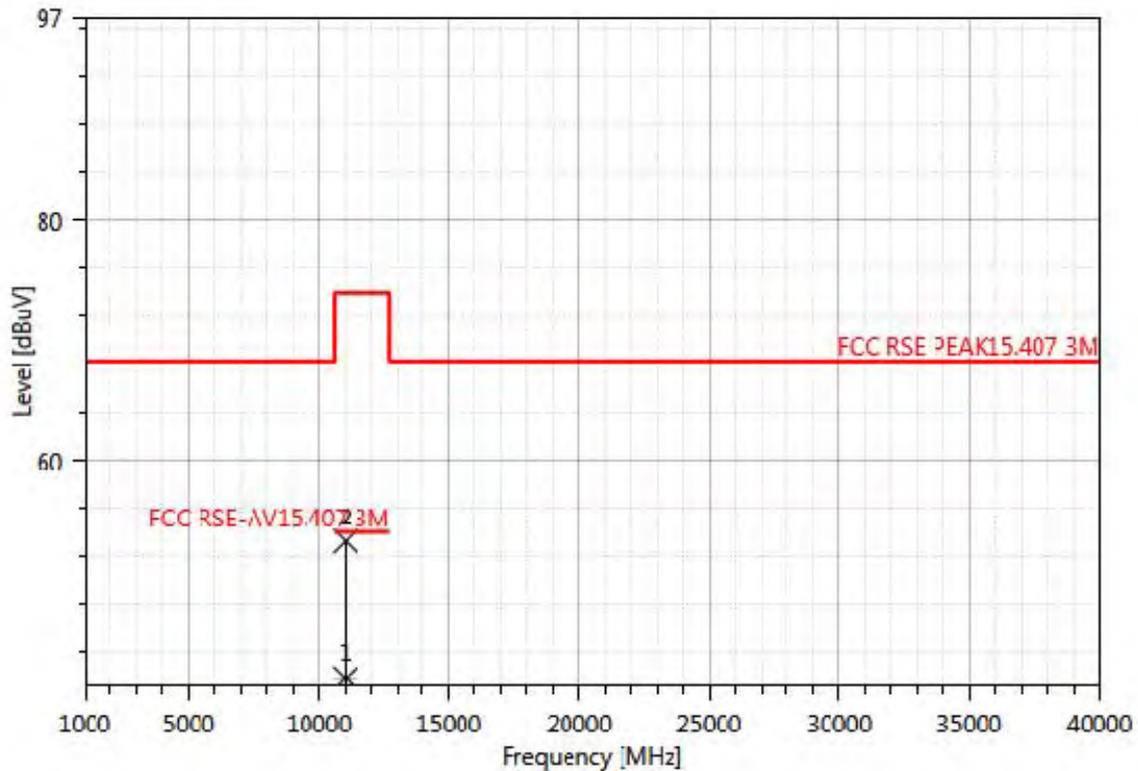
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Operation Mode :	802.11n40B3	Test Date :	12/21/2016
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11020.00	H	Average	41.78	21.62	20.16	54.00	-12.22
11020.00	H	Peak	53.24	33.08	20.16	74.00	-20.76

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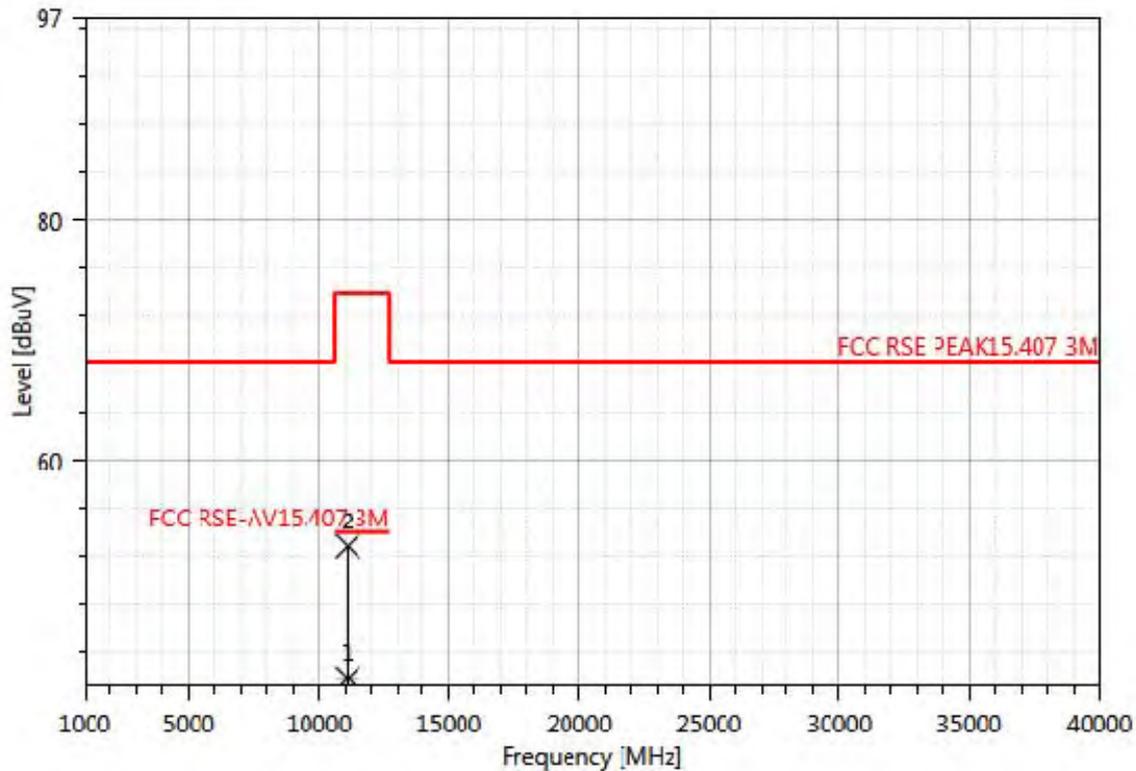
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Operation Mode :	802.11n40B3	Test Date :	12/21/2016
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11100.00	H	Average	41.80	21.48	20.32	54.00	-12.20
11100.00	H	Peak	52.84	32.52	20.32	74.00	-21.16

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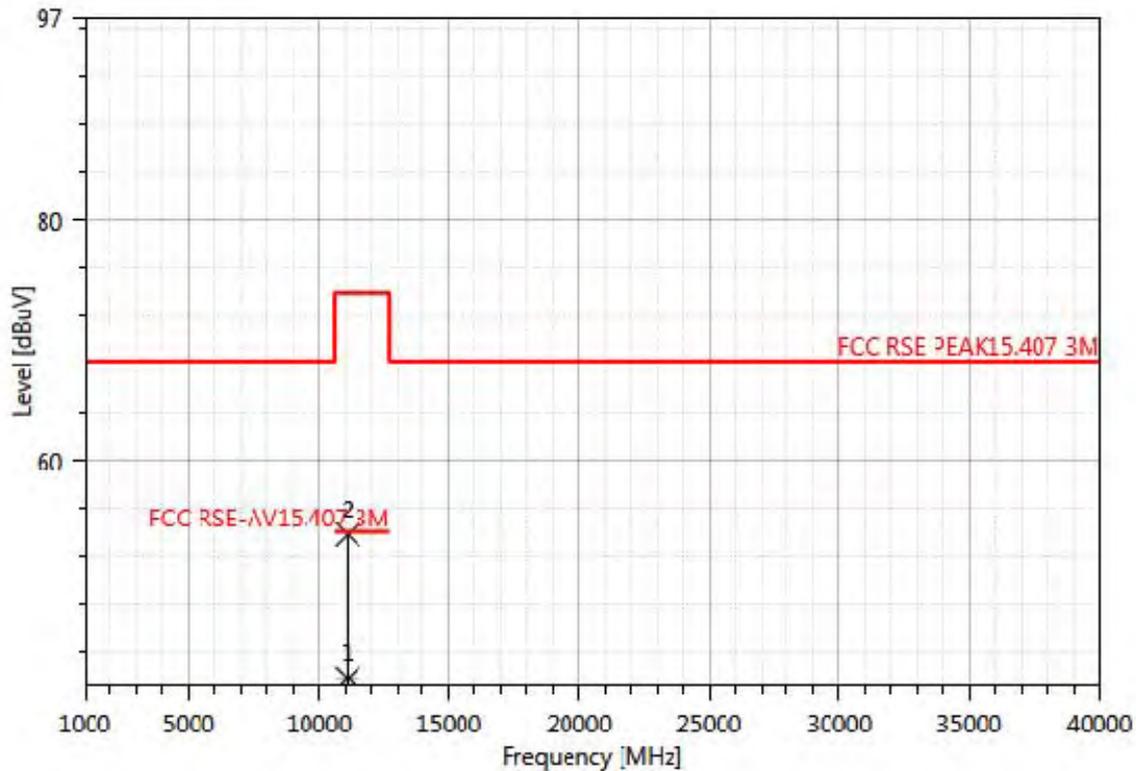
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Operation Mode :	802.11n40B3	Test Date :	12/21/2016
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11100.00	H	Average	41.78	21.46	20.32	54.00	-12.22
11100.00	H	Peak	53.78	33.46	20.32	74.00	-20.22

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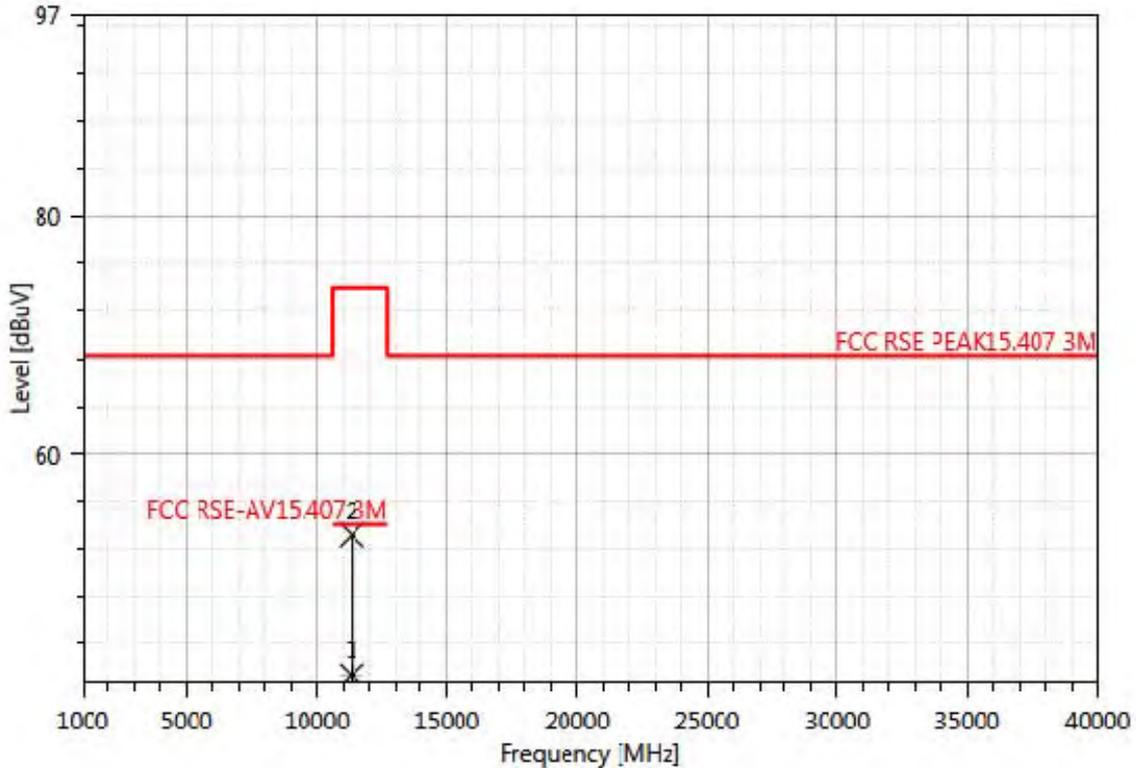
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Operation Mode :	802.11n40B3	Test Date :	12/21/2016
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11340.00	H	Average	41.34	20.96	20.38	54.00	-12.66
11340.00	H	Peak	53.14	32.75	20.38	74.00	-20.86

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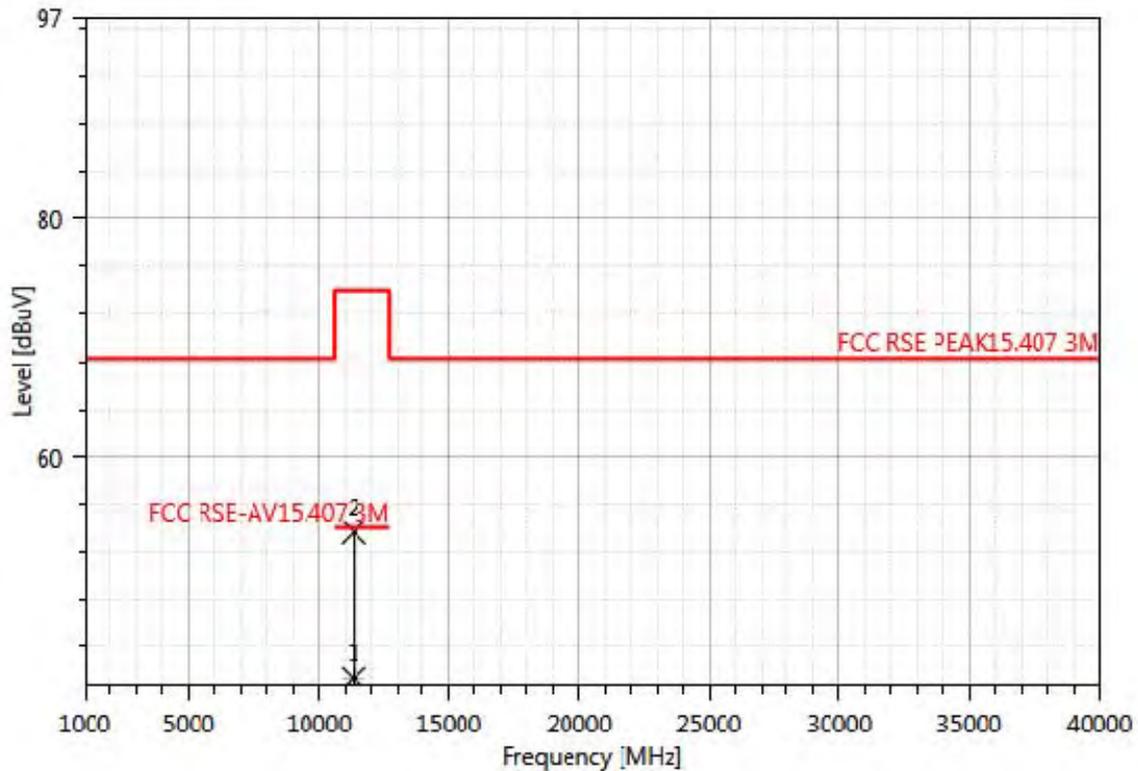
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Operation Mode :	802.11n40B3	Test Date :	12/21/2016
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	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
11340.00	H	Average	41.33	20.95	20.38	54.00	-12.67
11340.00	H	Peak	53.63	33.25	20.38	74.00	-20.37

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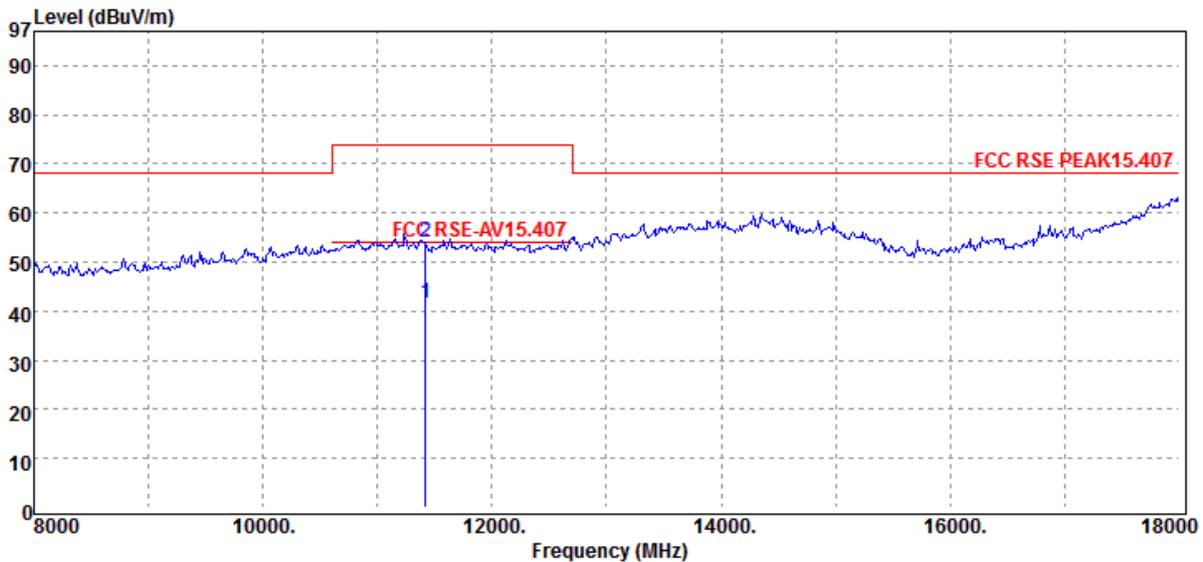
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Operation Mode :	802.11ac40B3	Test Date :	12/21/2016
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11420.00	H	Average	21.17	20.44	41.61	54.00	-12.39
11420.00	H	Peak	33.44	20.44	53.88	74.00	-20.12

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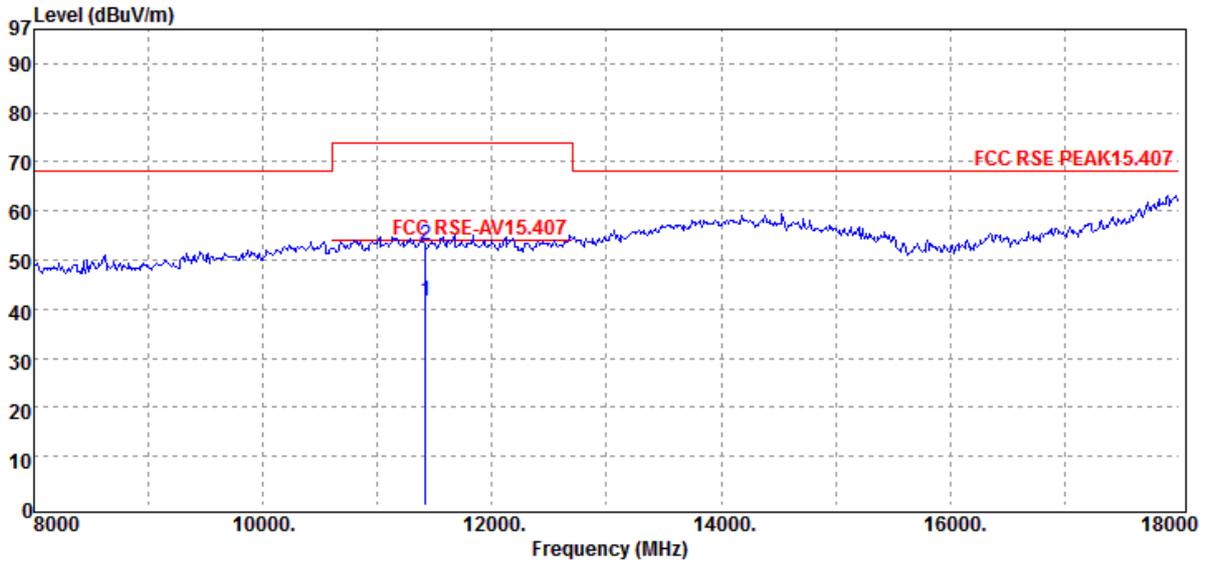
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Operation Mode :	802.11ac40B3	Test Date :	12/21/2016
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11420.00	H	Average	21.20	20.44	41.64	54.00	-12.36
11420.00	H	Peak	32.53	20.44	52.97	74.00	-21.03

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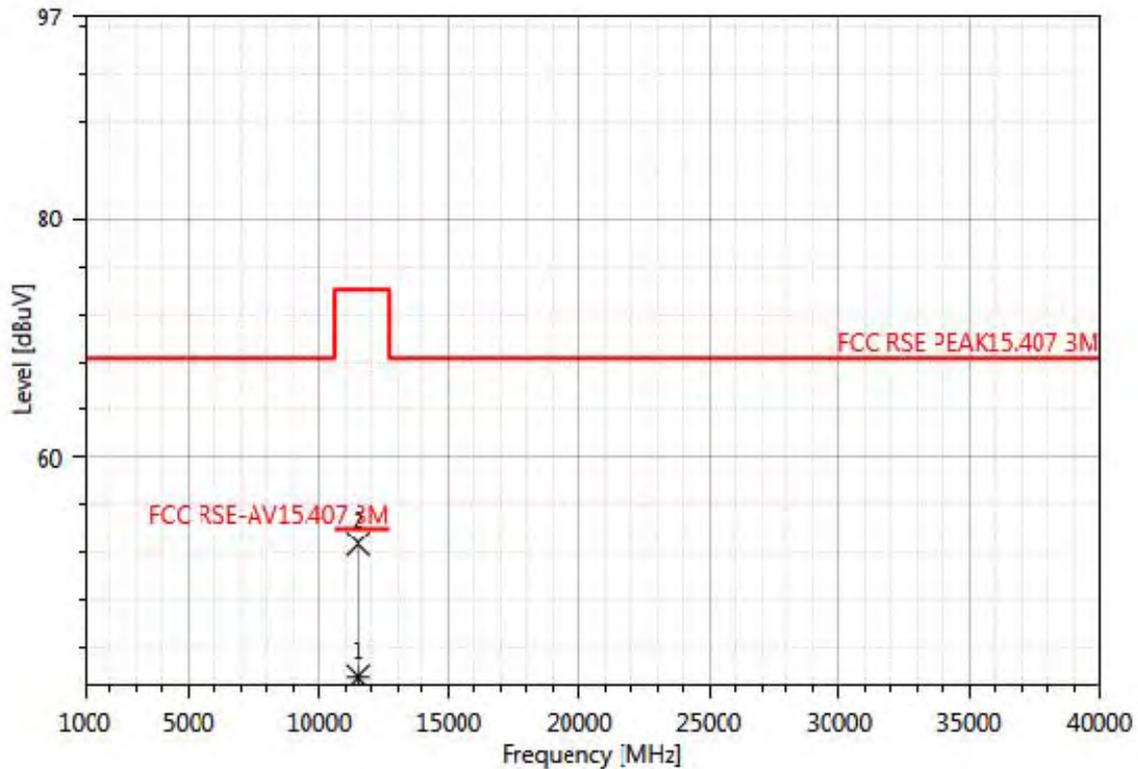
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11 n40B4	Test Date :	12/21/2016
Fundamental Frequency :	5755 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
11510.00	H	Average	41.57	21.18	20.39	54.00	-12.43
11510.00	H	Peak	52.72	32.33	20.39	74.00	-21.28

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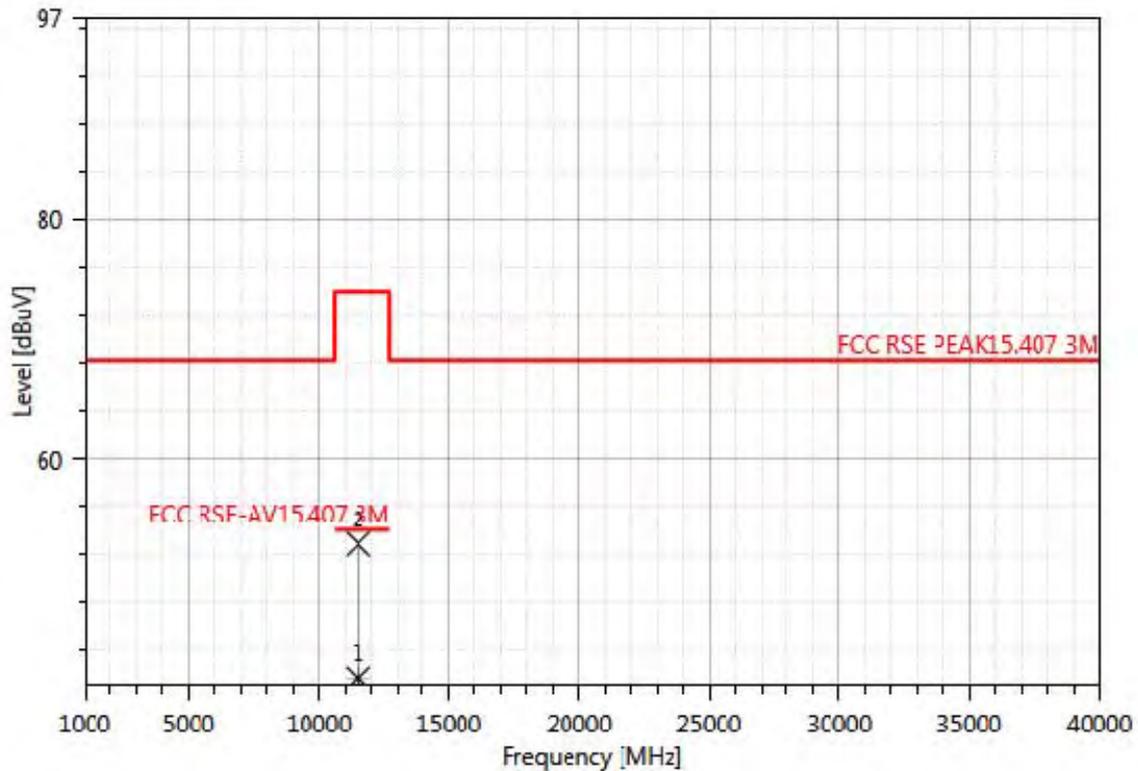
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Operation Mode :	802.11n40B4	Test Date :	12/21/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11510.00	H	Average	41.56	21.17	20.39	54.00	-12.44
11510.00	H	Peak	52.83	32.44	20.39	74.00	-21.17

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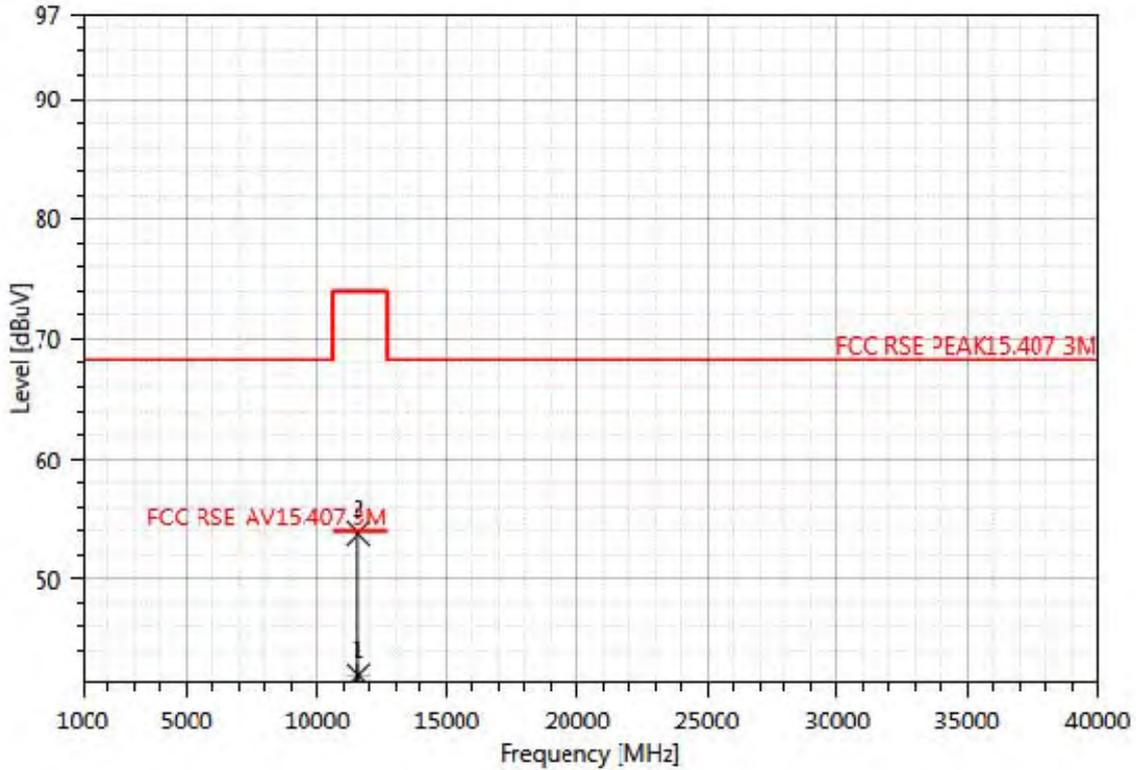
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Operation Mode :	802.11n40B4	Test Date :	12/21/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11590.00	H	Average	42.03	21.60	20.43	54.00	-11.97
11590.00	H	Peak	53.80	33.37	20.43	74.00	-20.20

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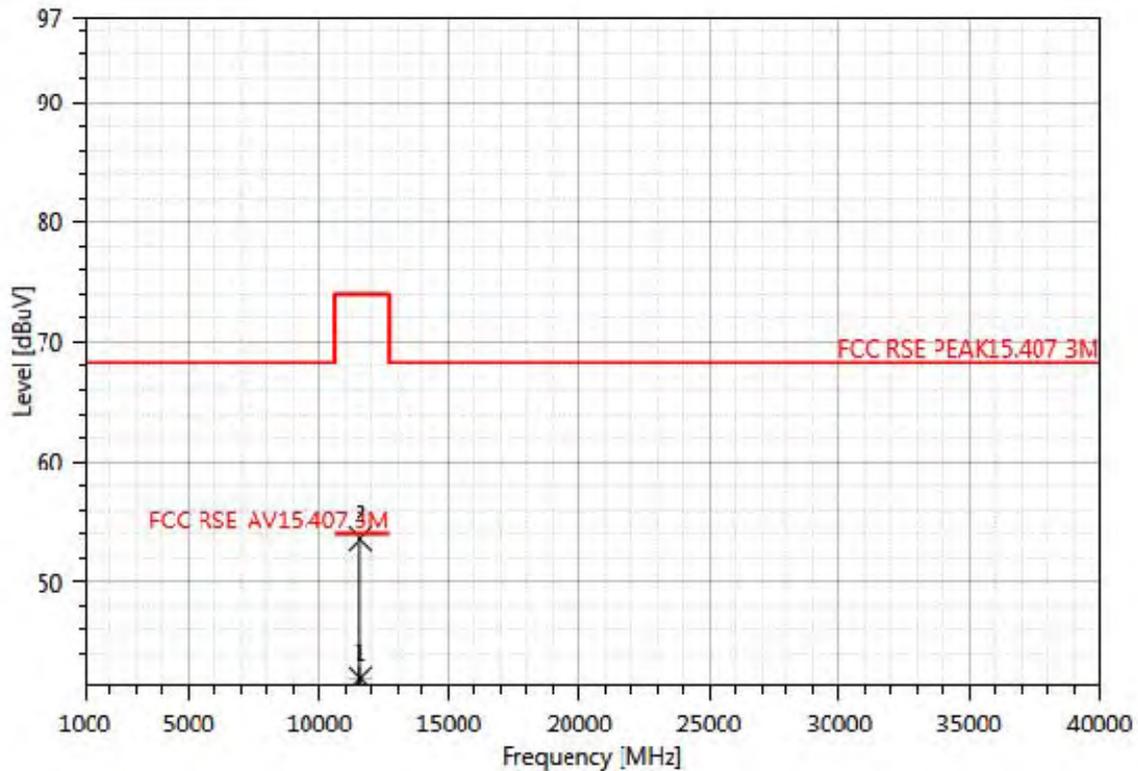
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Operation Mode :	802.11n40B4	Test Date :	12/21/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	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
11590.00	H	Average	42.01	21.58	20.43	54.00	-11.99
11590.00	H	Peak	53.59	33.16	20.43	74.00	-20.41

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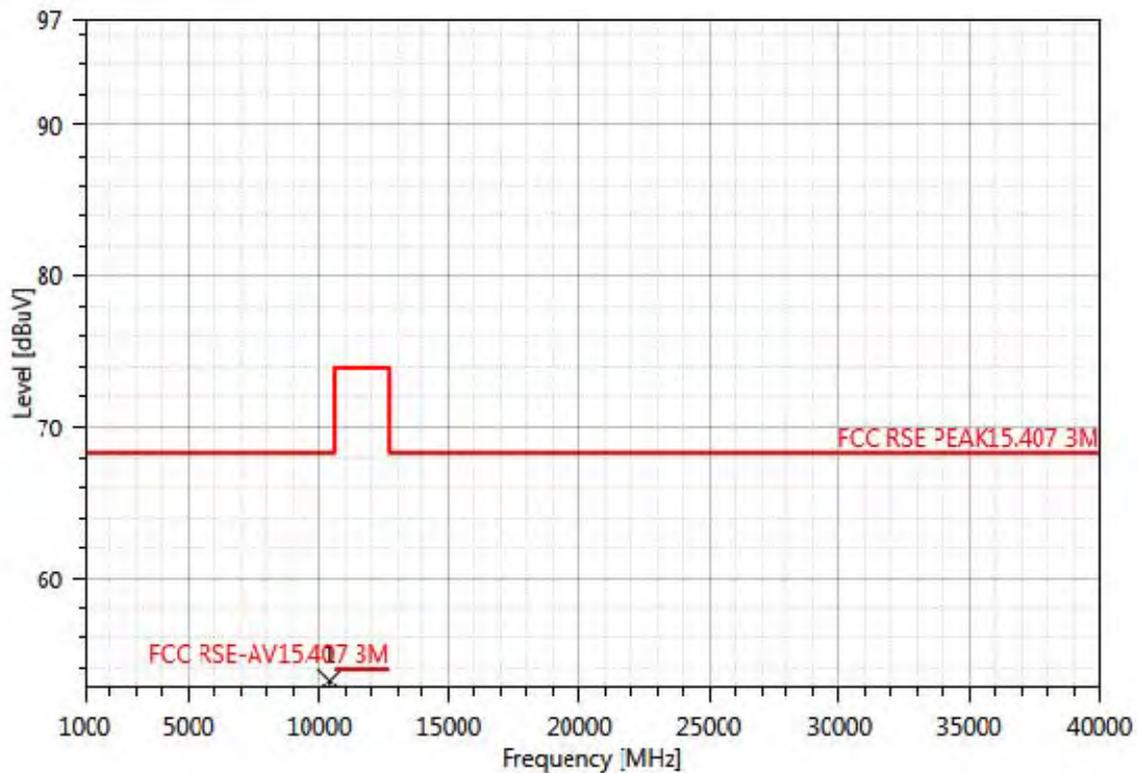
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	12/21/2016
Fundamental Frequency :	5210 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.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10420.00	H	Peak	53.23	34.52	18.71	68.30	-15.07

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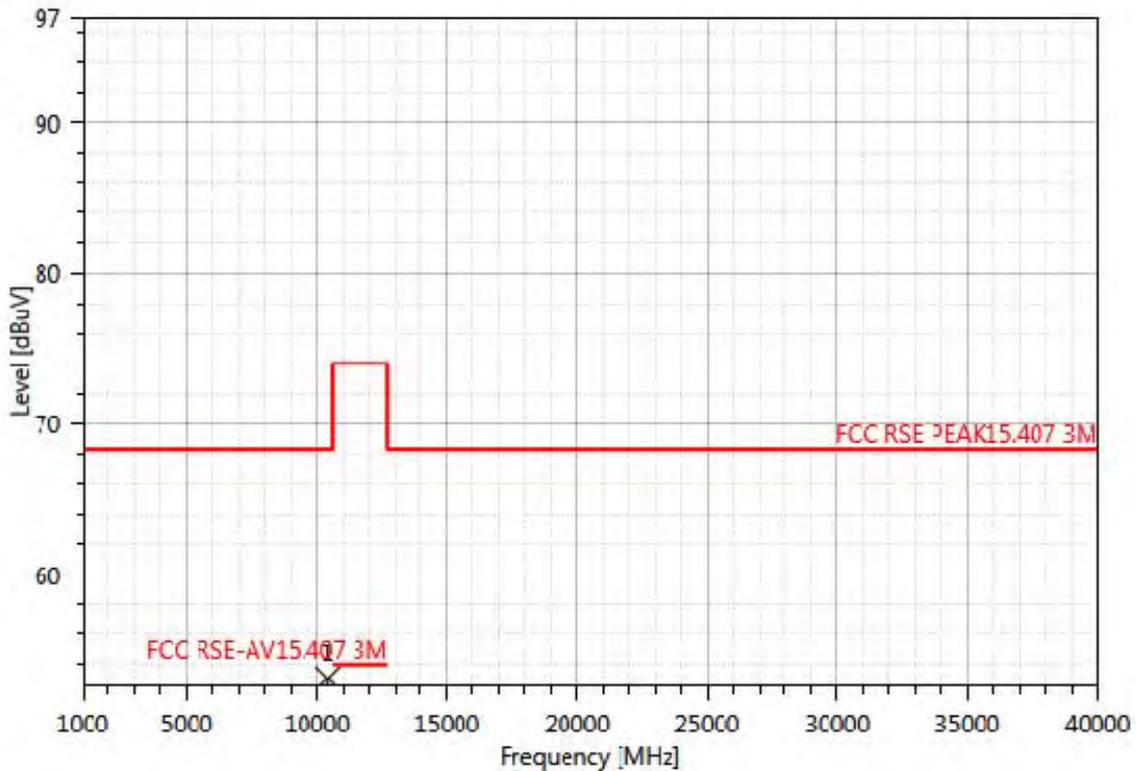
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Operation Mode :	802.11 ac80B1	Test Date :	12/21/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
10420.00	H	Peak	53.08	34.37	18.71	68.30	-15.22

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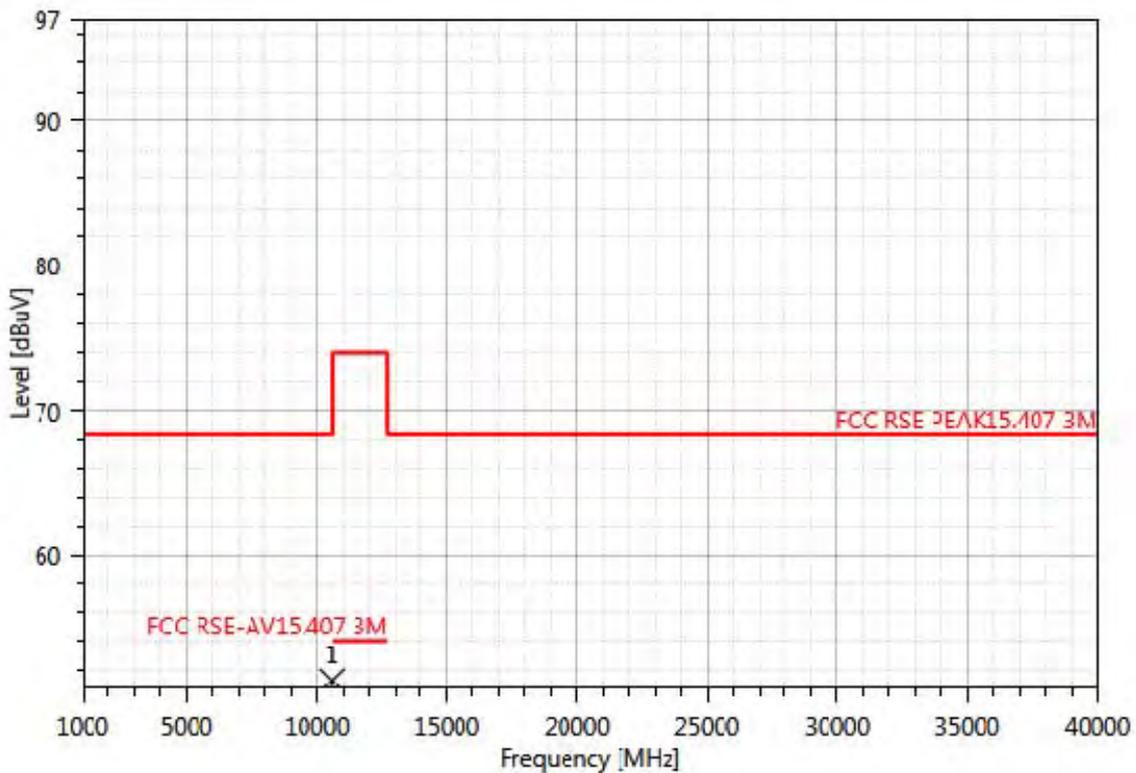
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11 ac80B2	Test Date :	12/21/2016
Fundamental Frequency :	5290 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
10580.00	H	Peak	51.35	32.47	18.88	68.30	-16.95

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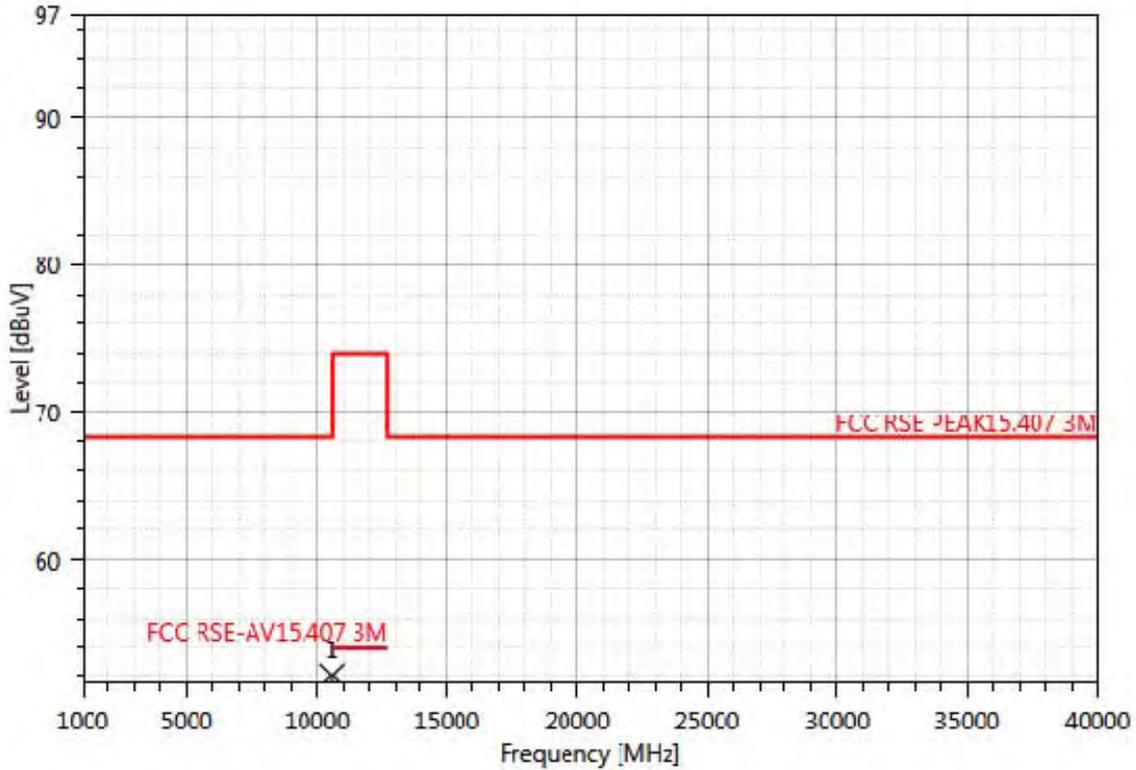
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Operation Mode : 802.11 ac80B2      Test Date : 12/21/2016  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	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
10580.00	H	Peak	52.13	33.25	18.88	68.30	-16.17

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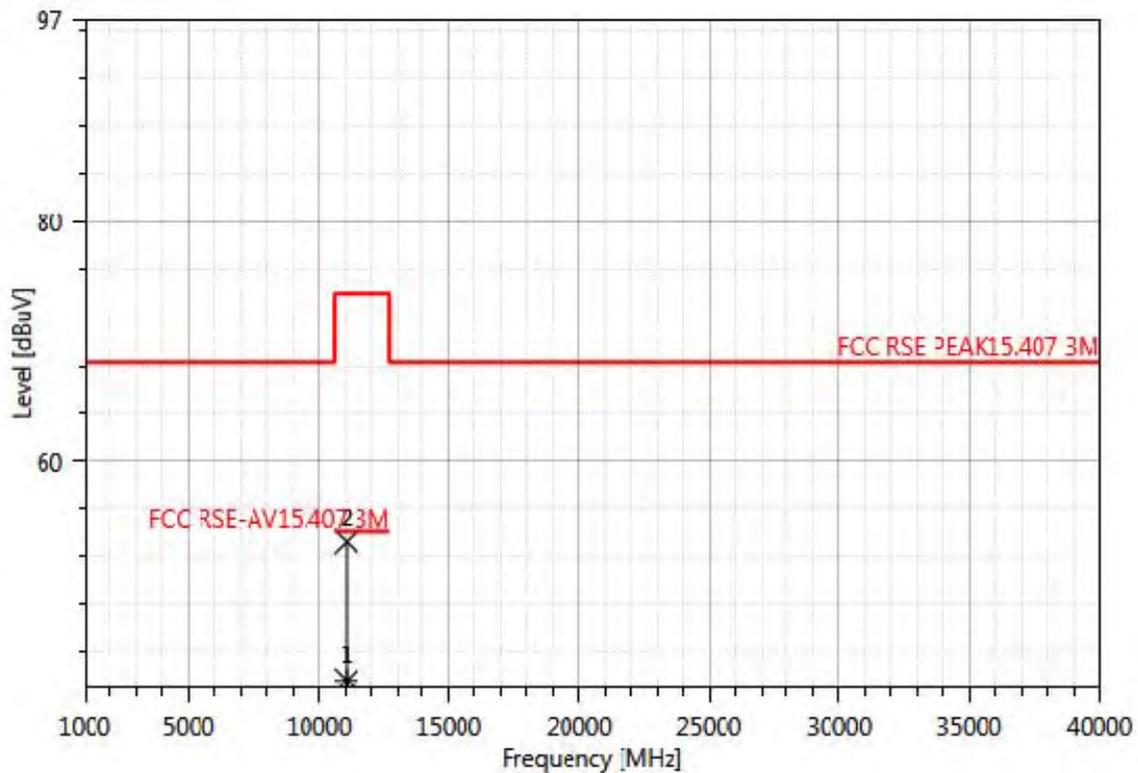
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11 ac80B3	Test Date :	12/21/2016
Fundamental Frequency :	5530 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
11060.00	H	Average	41.58	21.32	20.26	54.00	-12.42
11060.00	H	Peak	53.16	32.90	20.26	74.00	-20.84

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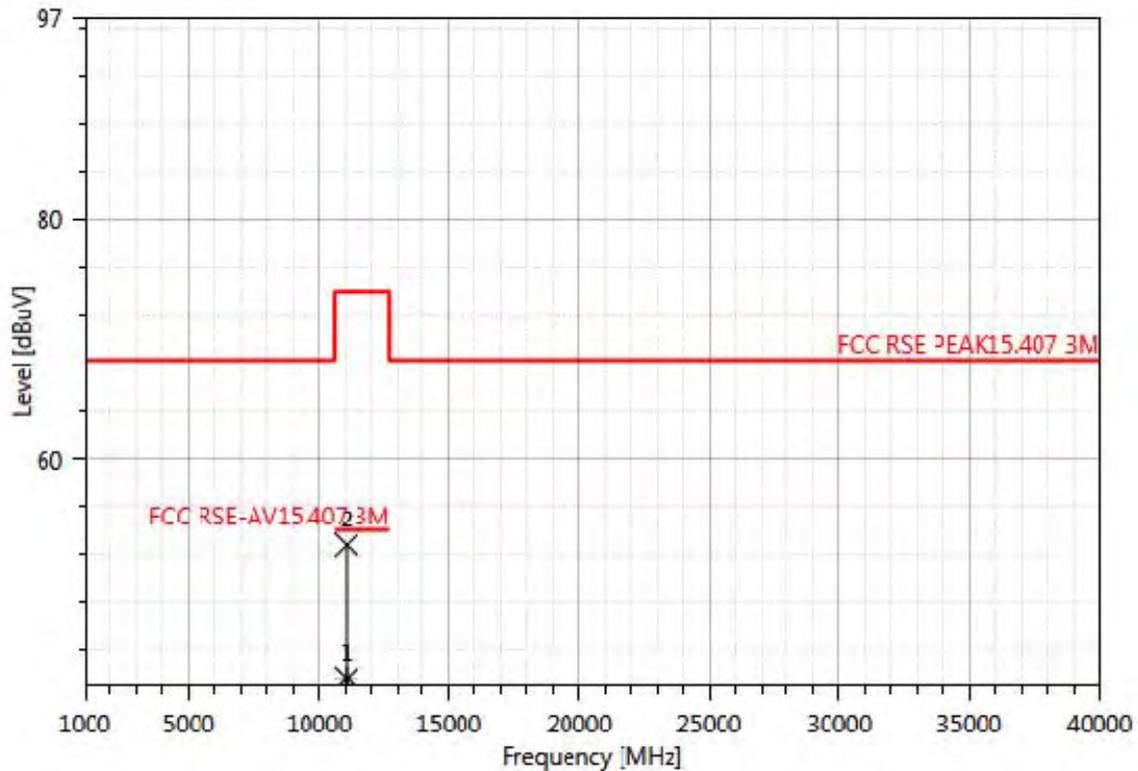
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Operation Mode :	802.11 ac80B3	Test Date :	12/21/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11060.00	H	Average	41.59	21.33	20.26	54.00	-12.41
11060.00	H	Peak	52.76	32.50	20.26	74.00	-21.24

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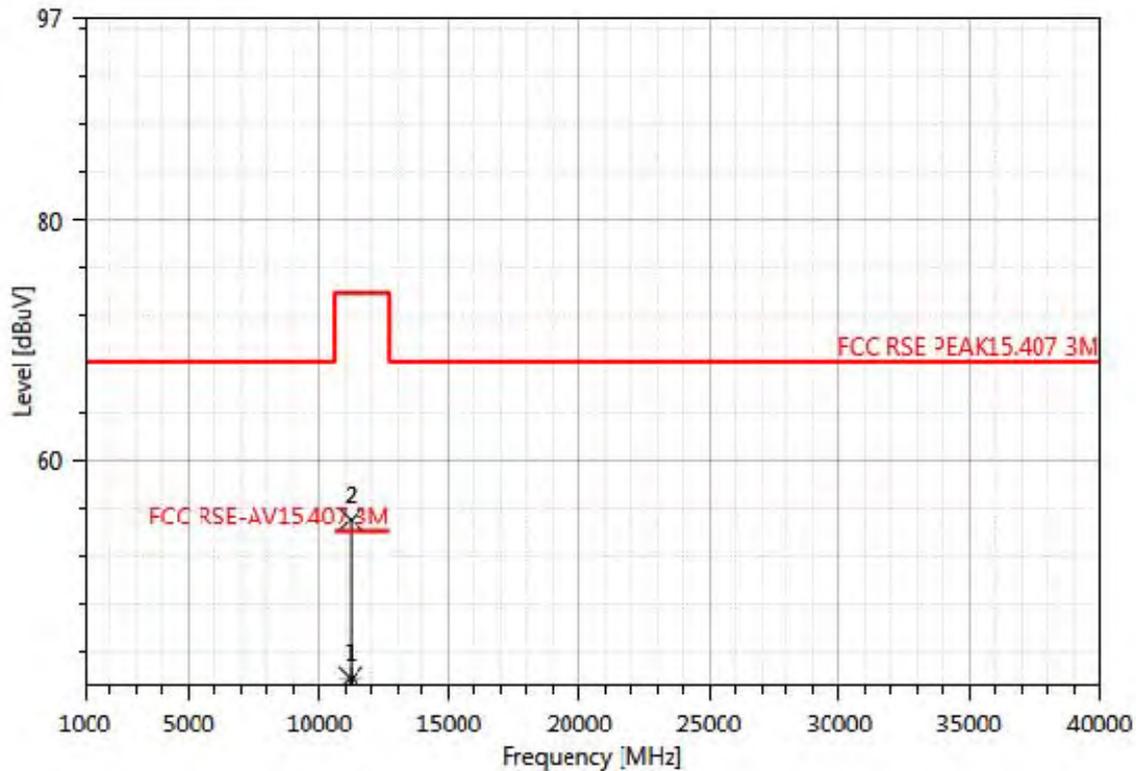
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Operation Mode :	802.11 ac80B3	Test Date :	12/21/2016
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11220.00	H	Average	41.76	21.28	20.48	54.00	-12.24
11220.00	H	Peak	55.04	34.56	20.48	74.00	-18.96

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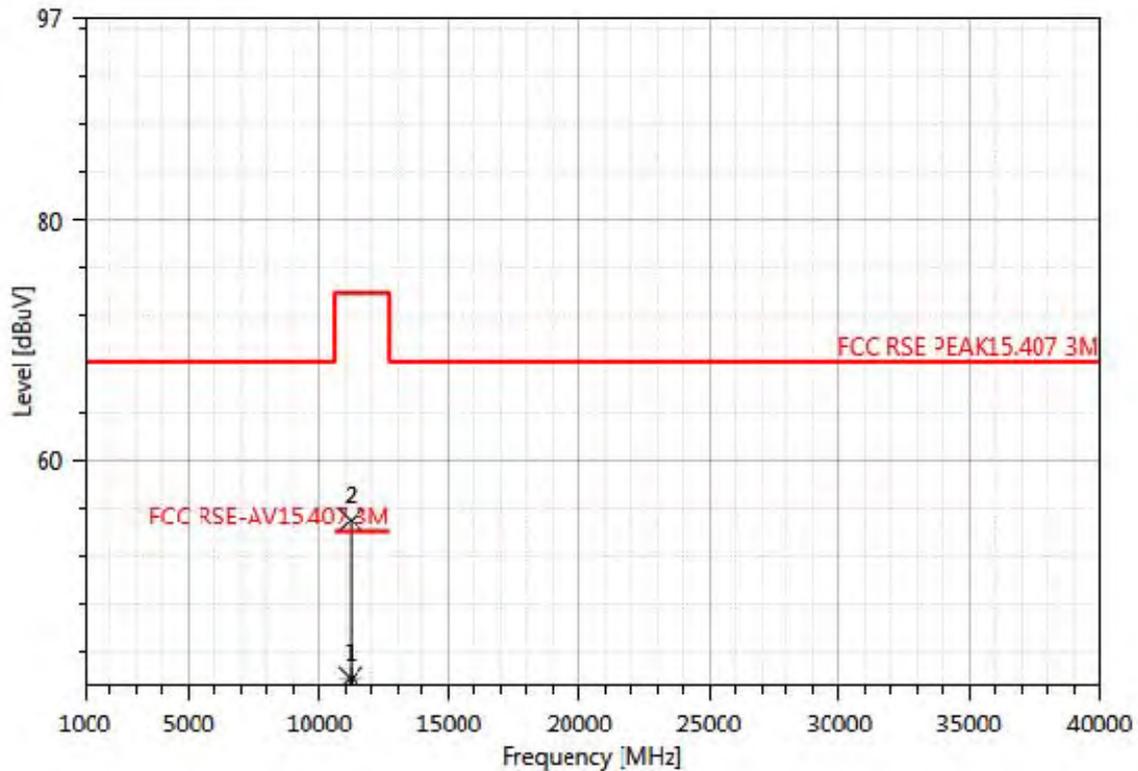
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Operation Mode : 802.11 ac80B3      Test Date : 12/21/2016  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11220.00	H	Average	41.77	21.29	20.48	54.00	-12.23
11220.00	H	Peak	54.97	34.50	20.48	74.00	-19.03

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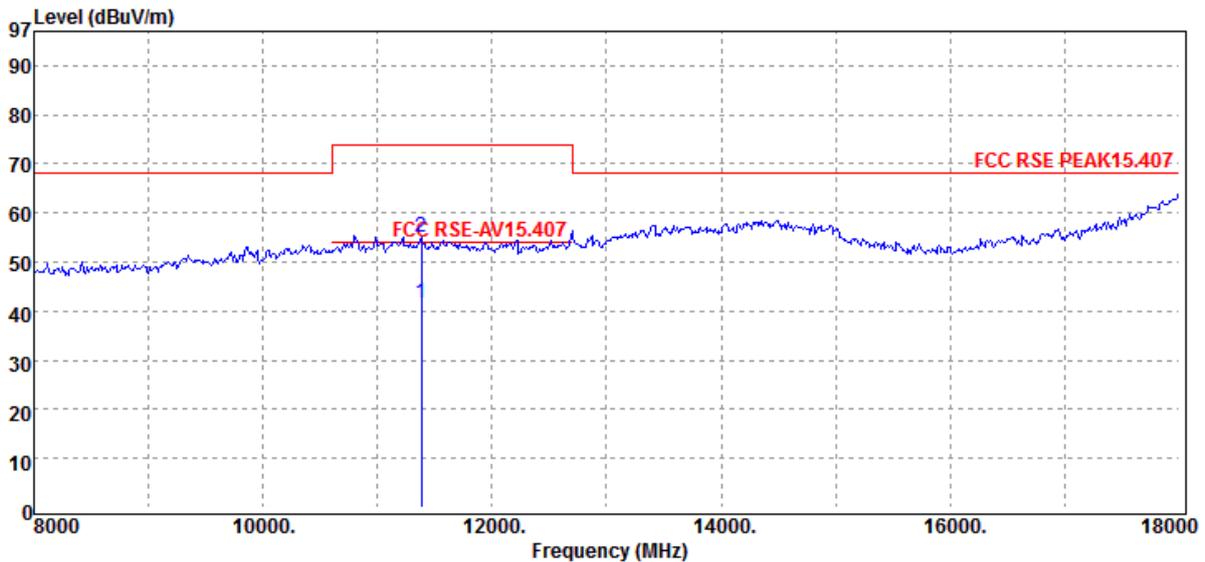
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Operation Mode :	802.11ac80B3	Test Date :	12/21/2016
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11380.00	H	Average	21.11	20.50	41.61	54.00	-12.39
11380.00	H	Peak	34.49	20.50	54.99	74.00	-19.01

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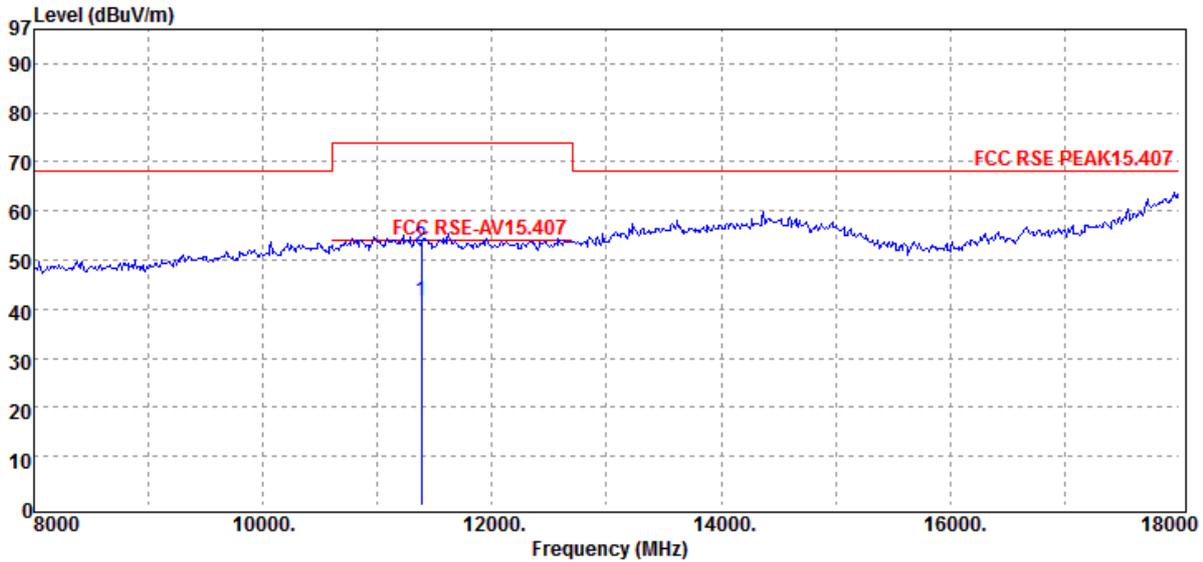
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Operation Mode :	802.11ac80B3	Test Date :	12/21/2016
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH High	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
11380.00	H	Average	21.17	20.50	41.67	54.00	-12.33
11380.00	H	Peak	32.25	20.50	52.75	74.00	-21.25

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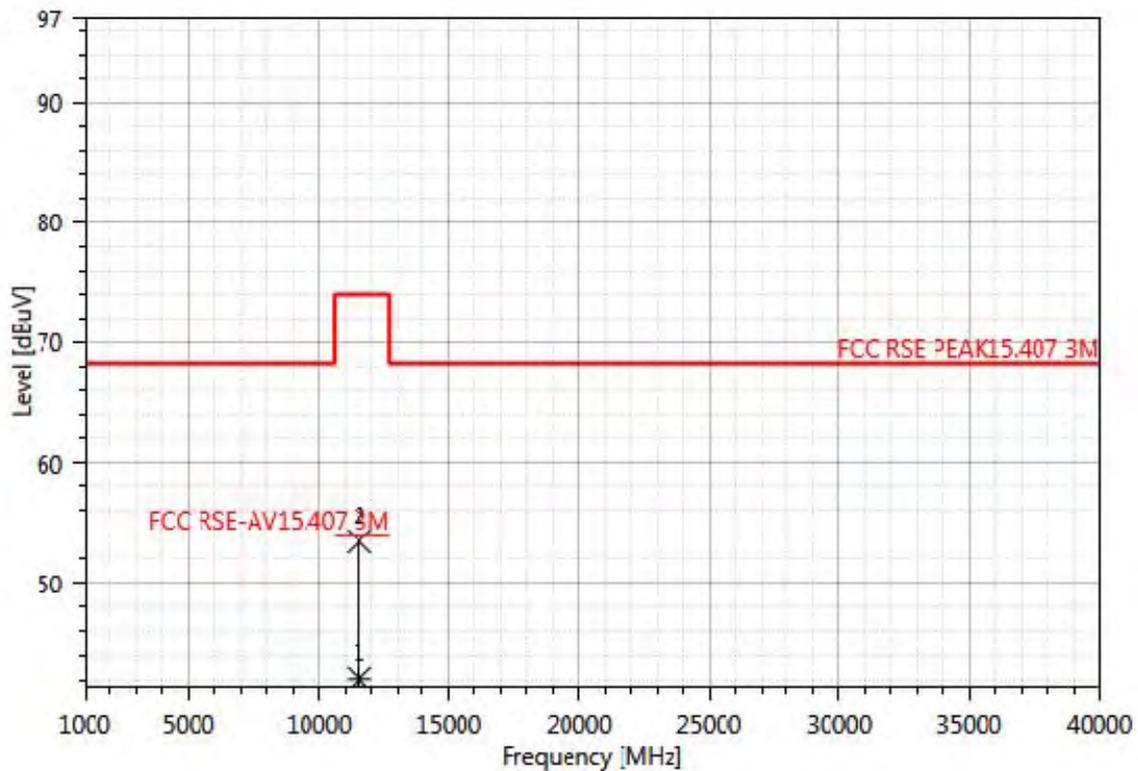
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	12/21/2016
Fundamental Frequency :	5775 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
11550.00	H	Average	42.06	21.54	20.52	54.00	-11.94
11550.00	H	Peak	53.48	32.96	20.52	74.00	-20.52

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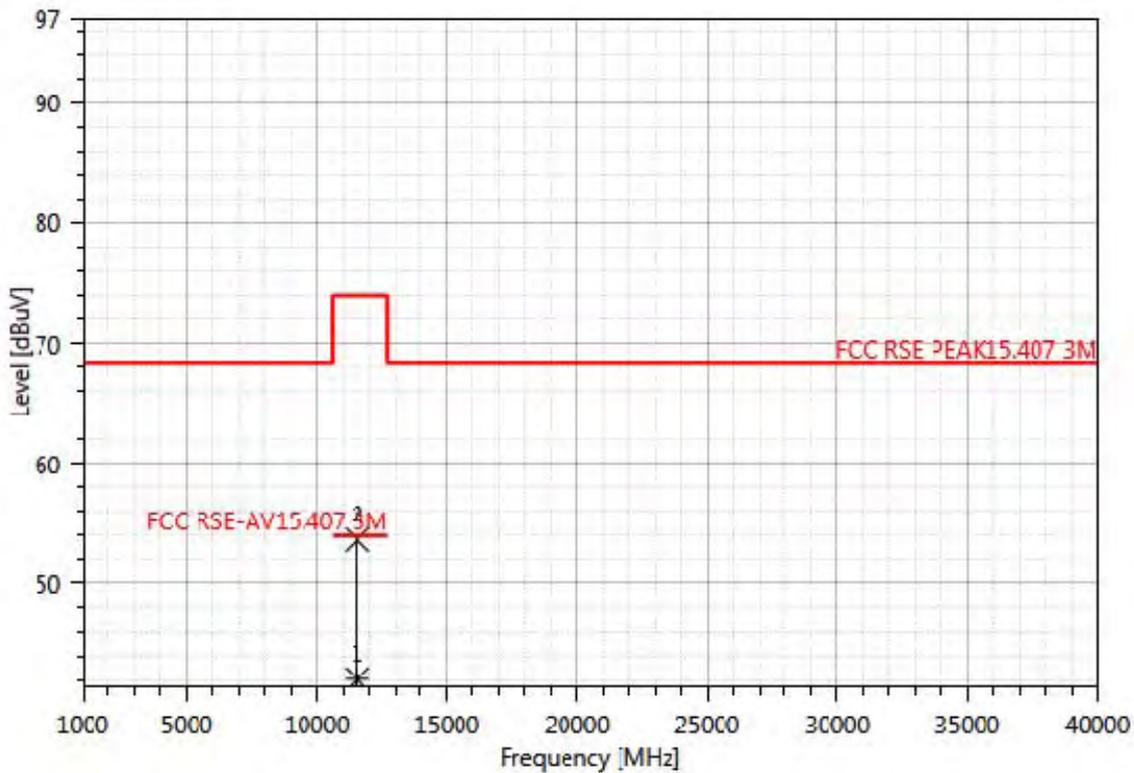
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Operation Mode :	802.11 ac80B4	Test Date :	12/21/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. 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
11550.00	H	Average	42.07	21.55	20.52	54.00	-11.93
11550.00	H	Peak	53.67	33.16	20.52	74.00	-20.33

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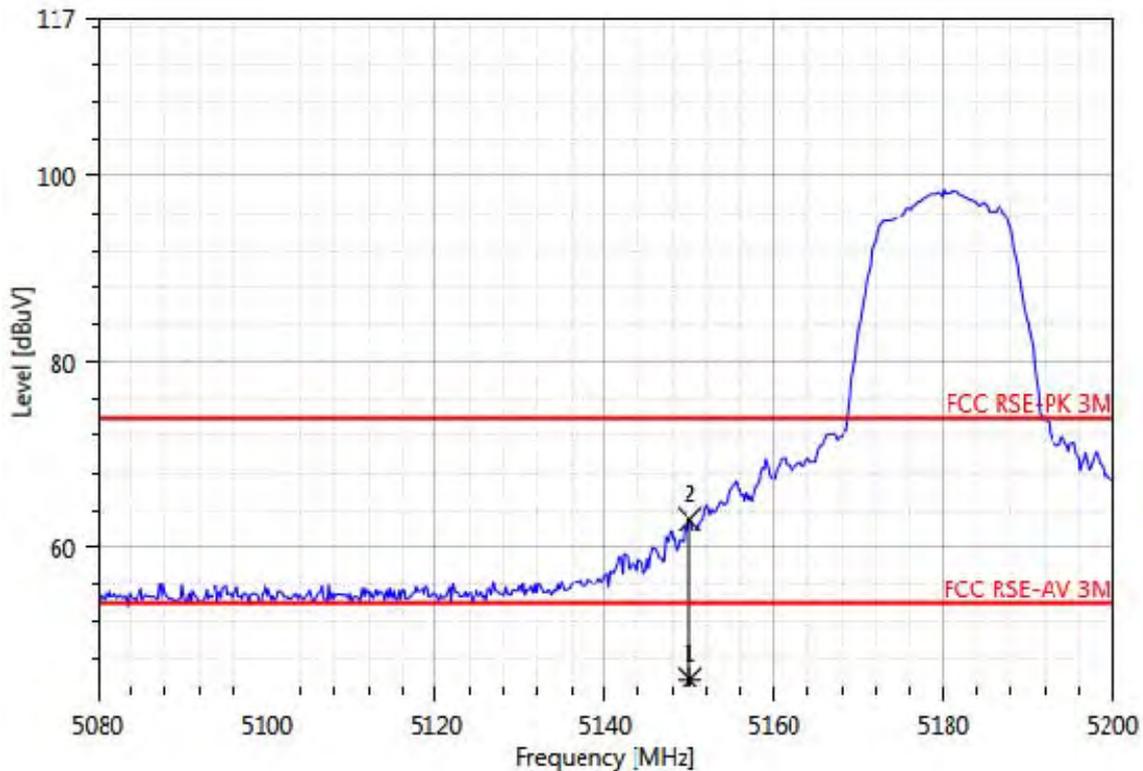
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### Band edge falling to restricted band

#### 802.11a mode

Operation Mode :	802.11aB1	Test Date :	01/12/2017
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge 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
5150.00	E	Average	45.78	39.90	5.88	54.00	-8.22
5150.00	E	Peak	63.03	57.15	5.88	74.00	-10.97

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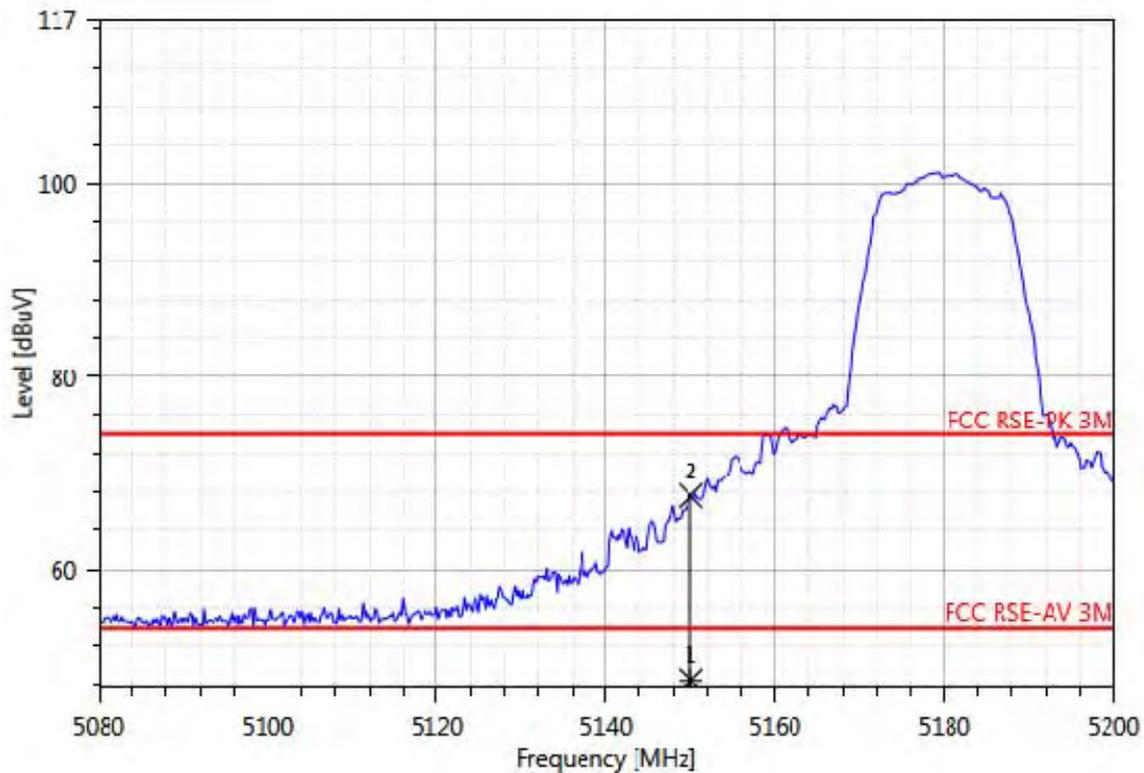
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Operation Mode : 802.11 aB1 Test Date : 01/12/2017  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5150.00	E	Average	48.52	42.64	5.88	54.00	-5.48
5150.00	E	Peak	67.64	61.76	5.88	74.00	-6.36

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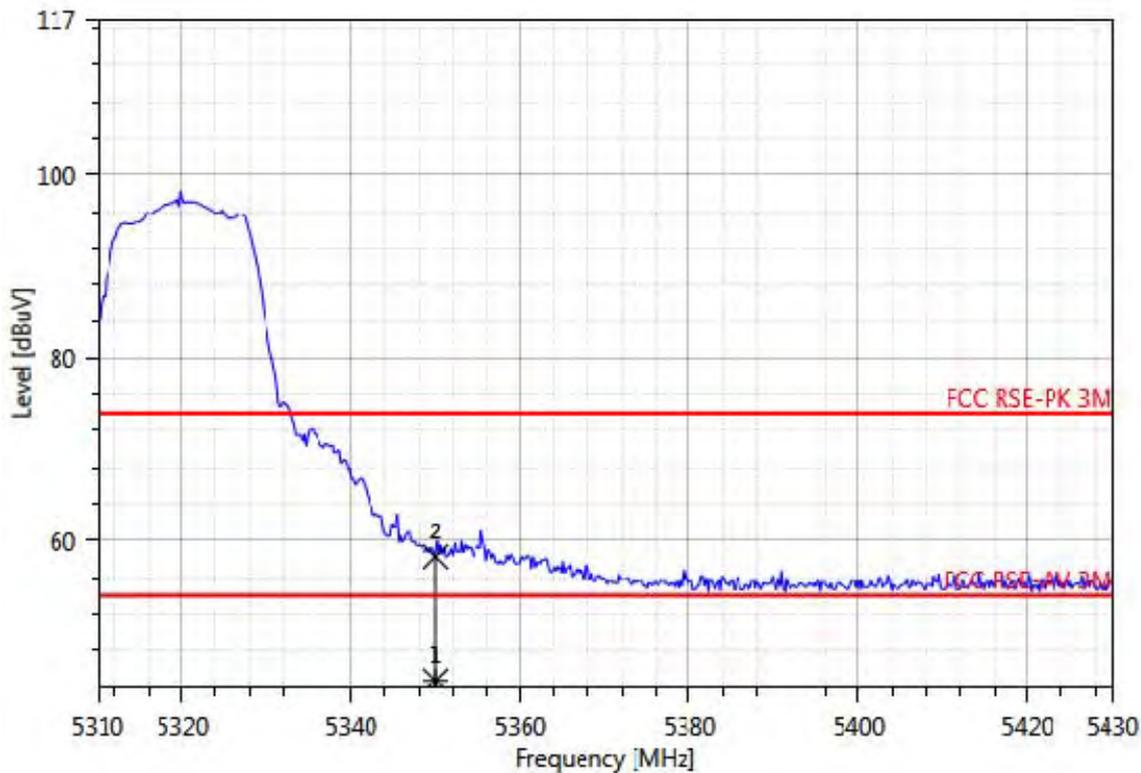
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Operation Mode : 802.11 aB2 Test Date : 01/12/2017  
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5350.00	E	Average	44.75	38.60	6.15	54.00	-9.25
5350.00	E	Peak	58.25	52.10	6.15	74.00	-15.75

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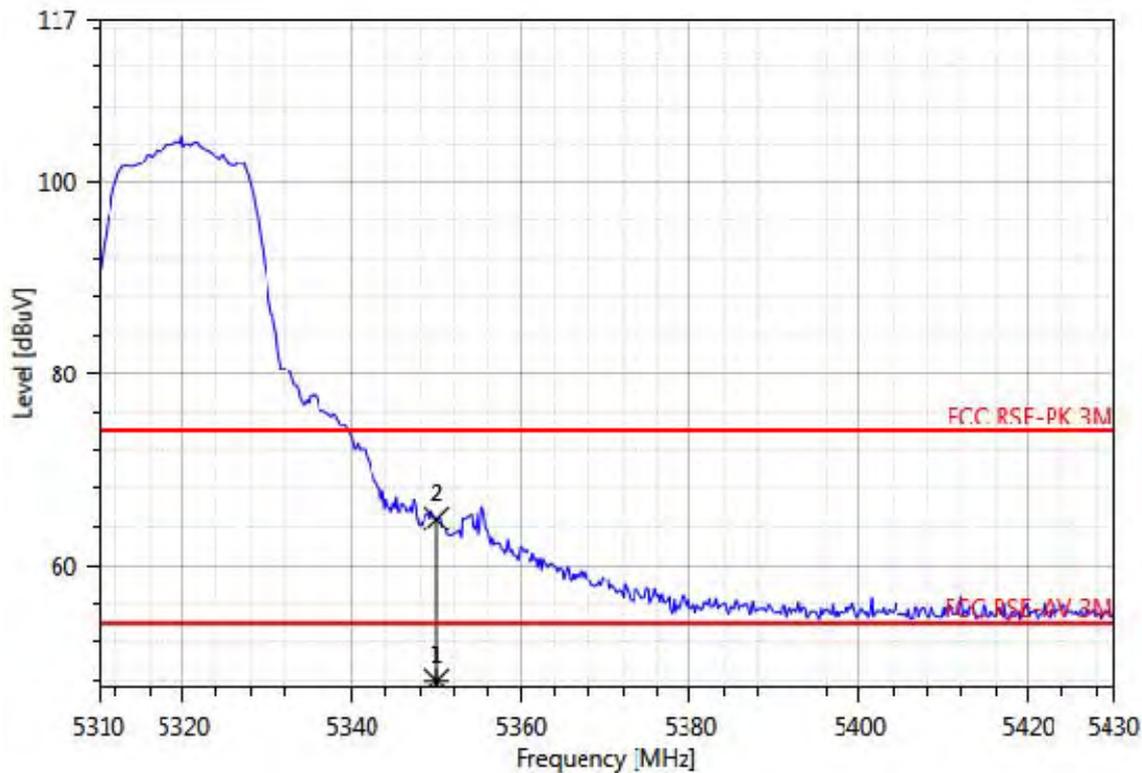
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Operation Mode : 802.11 aB2                      Test Date : 01/12/2017  
 Fundamental Frequency : 5320 MHz              Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane                      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5350.00	E	Average	47.98	41.83	6.15	54.00	-6.02
5350.00	E	Peak	64.85	58.70	6.15	74.00	-9.15

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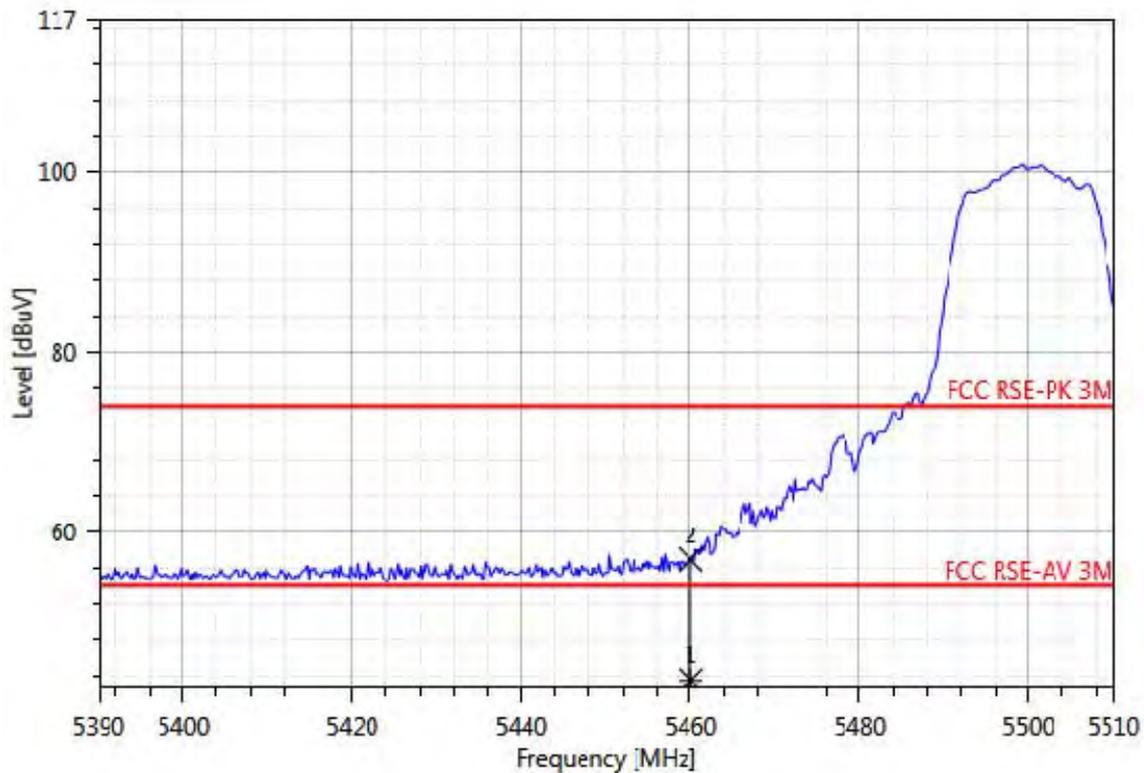
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Operation Mode : 802.11 aB3 Test Date : 01/12/2017  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5460.00	E	Average	43.50	37.27	6.23	54.00	-10.50
5460.00	E	Peak	56.96	50.73	6.23	74.00	-17.04

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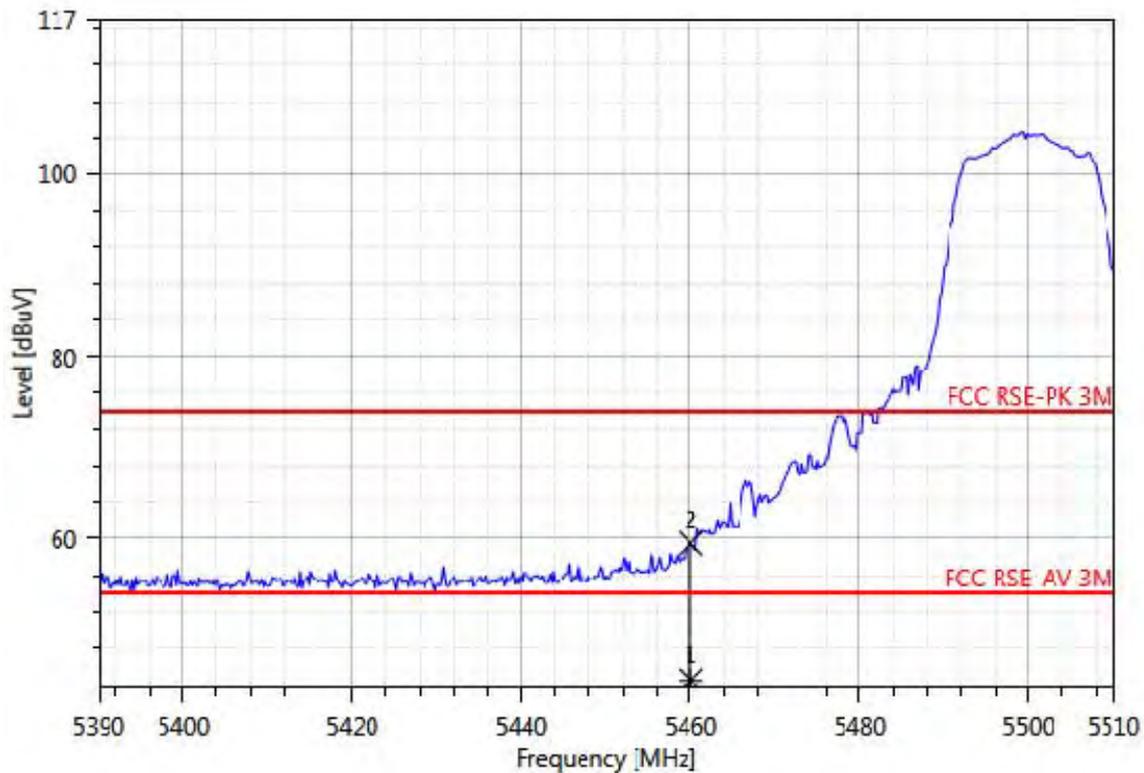
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Operation Mode : 802.11 aB3                      Test Date : 01/12/2017  
 Fundamental Frequency : 5500 MHz              Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Mike  
 EUT Pol. : E2 Plane                      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
5460.00	E	Average	44.44	38.21	6.23	54.00	-9.56
5460.00	E	Peak	59.45	53.22	6.23	74.00	-14.55

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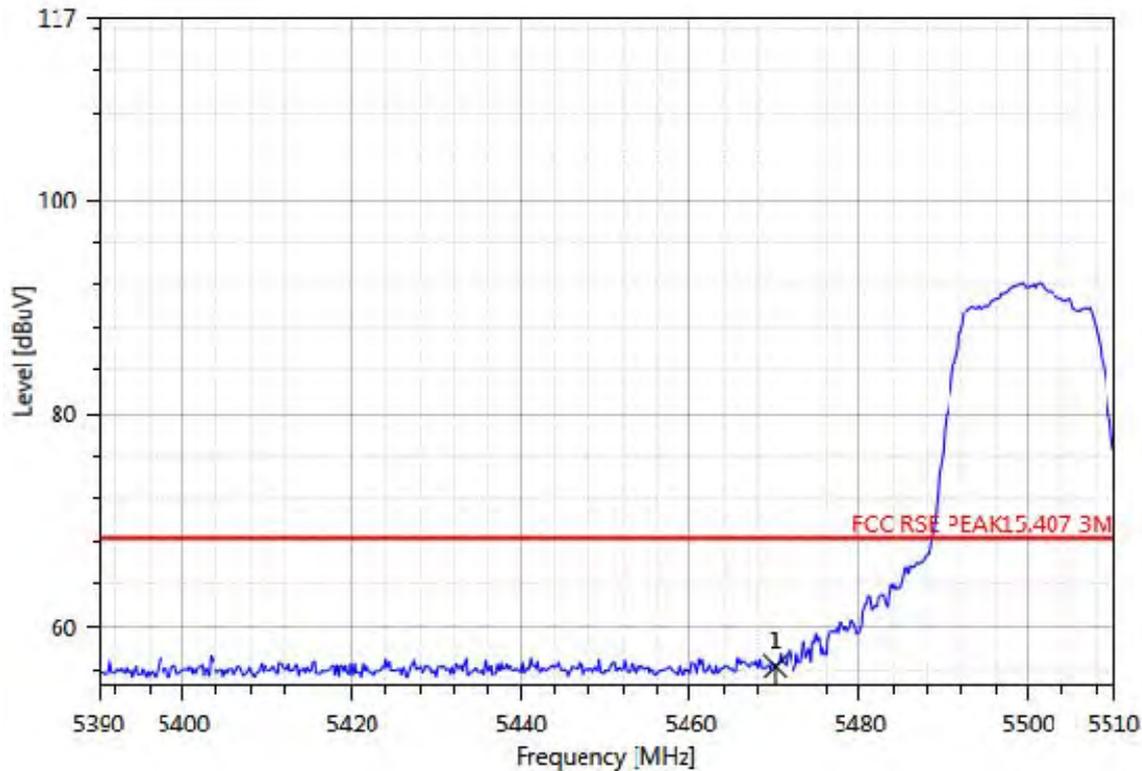
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Operation Mode : 802.11 aB3      Test Date : 01/12/2017  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL



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
5470.00	E	Peak	56.37	50.11	6.26	68.30	-11.93

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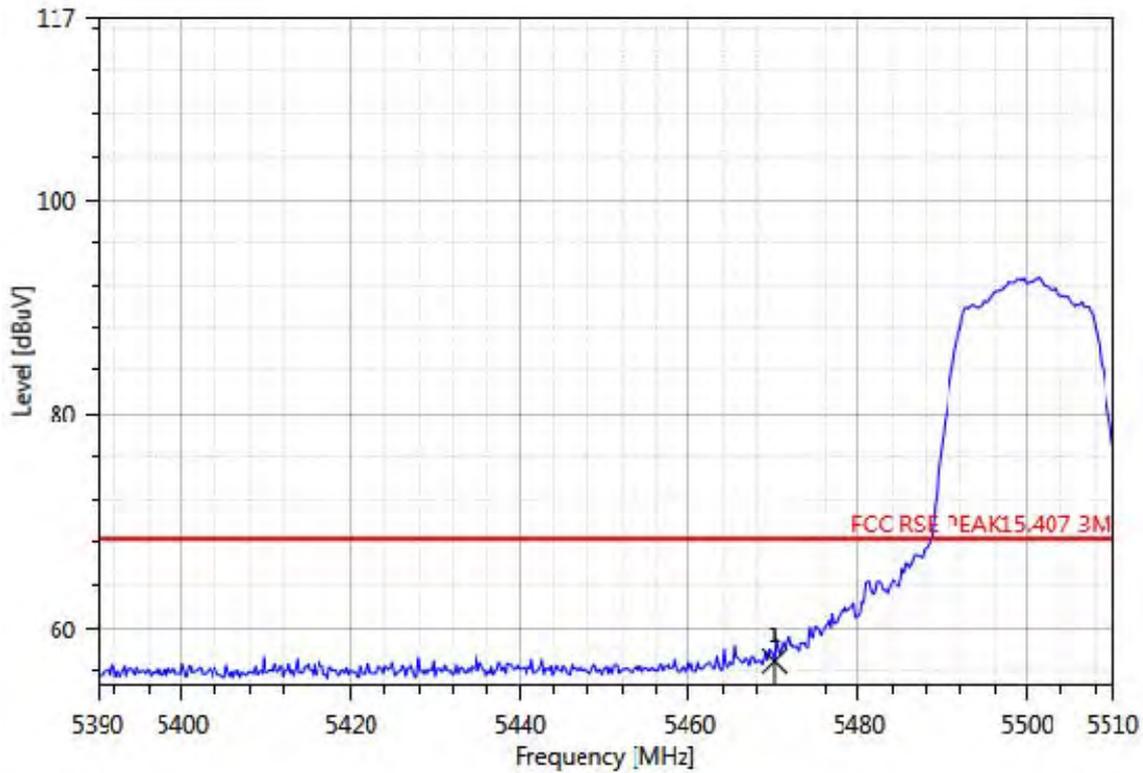
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Operation Mode : 802.11 aB3                      Test Date : 01/12/2017  
 Fundamental Frequency : 5500 MHz              Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Mike  
 EUT Pol. : E2 Plane                      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	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	56.93	50.66	6.26	68.30	-11.37

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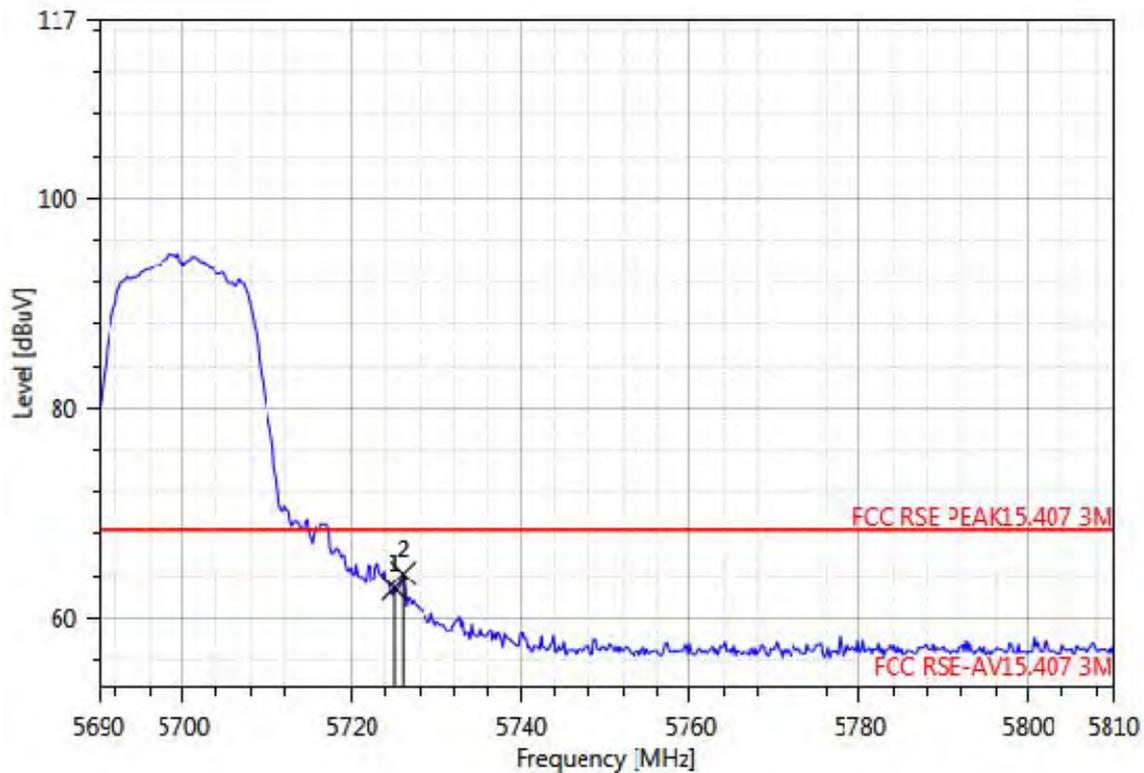
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Operation Mode : 802.11 aB3 Test Date : 01/12/2017  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5725.00	E	Peak	62.78	56.19	6.59	68.30	-5.52
5726.00	S	Peak	64.17	57.57	6.60	68.30	-4.13

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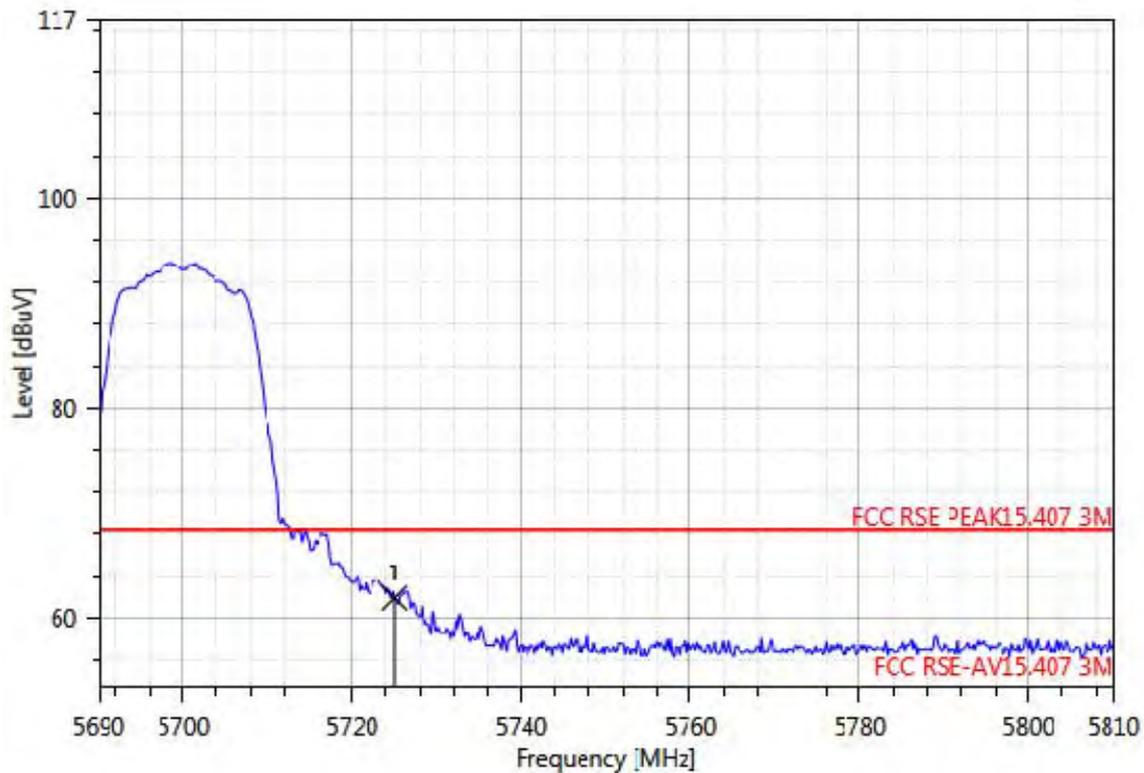
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Operation Mode : 802.11 aB3 Test Date : 01/12/2017  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5725.00	E	Peak	61.82	55.23	6.59	68.30	-6.48

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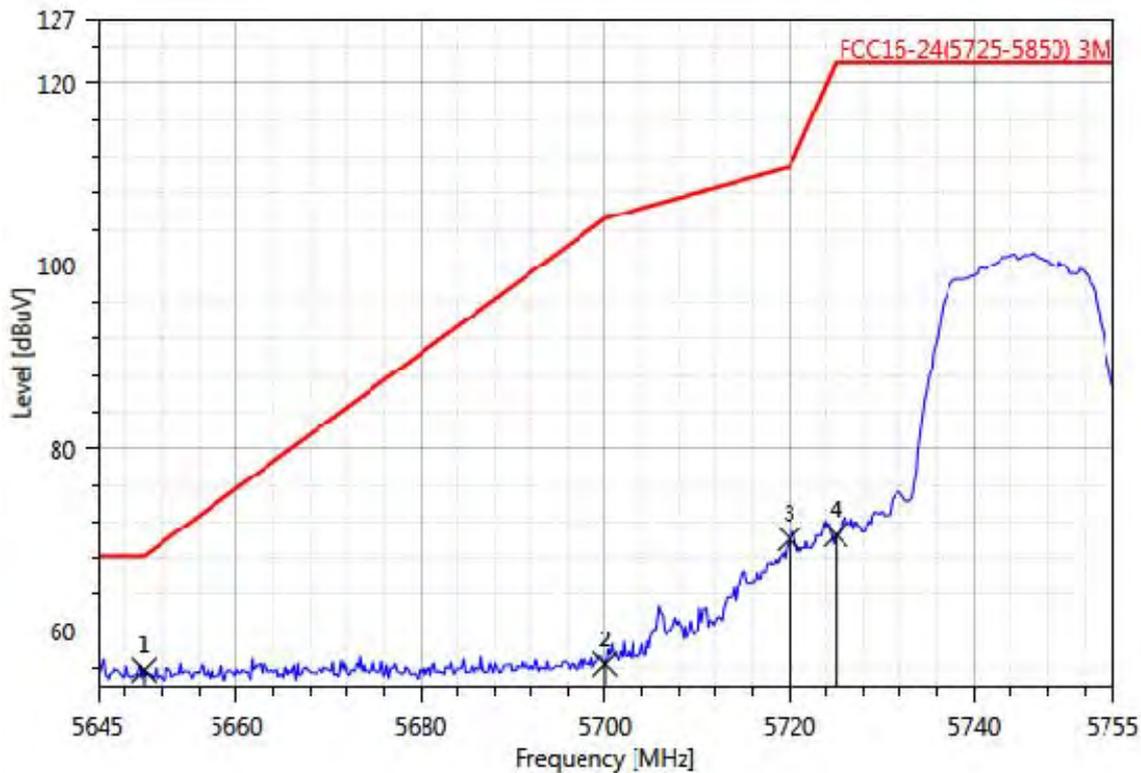
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Operation Mode : 802.11 aB4 Test Date : 01/12/2017  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5650.00	E	Peak	55.79	49.31	6.48	68.23	-12.44
5700.00	E	Peak	56.44	49.77	6.68	105.23	-48.79
5720.00	E	Peak	70.13	63.53	6.60	110.83	-40.70
5725.00	E	Peak	70.56	63.97	6.59	122.23	-51.67

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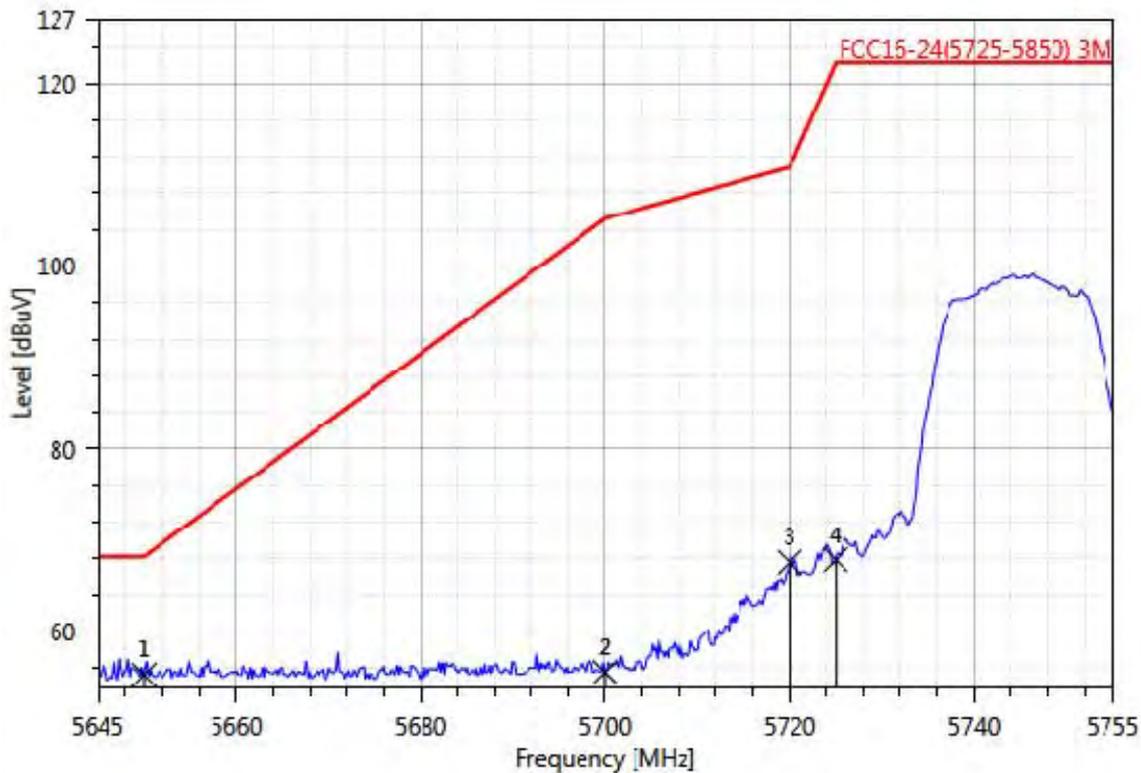
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 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5650.00	E	Peak	55.27	48.78	6.48	68.23	-12.96
5700.00	E	Peak	55.57	48.89	6.68	105.23	-49.66
5720.00	E	Peak	67.63	61.03	6.60	110.83	-43.20
5725.00	E	Peak	67.90	61.31	6.59	122.23	-54.33

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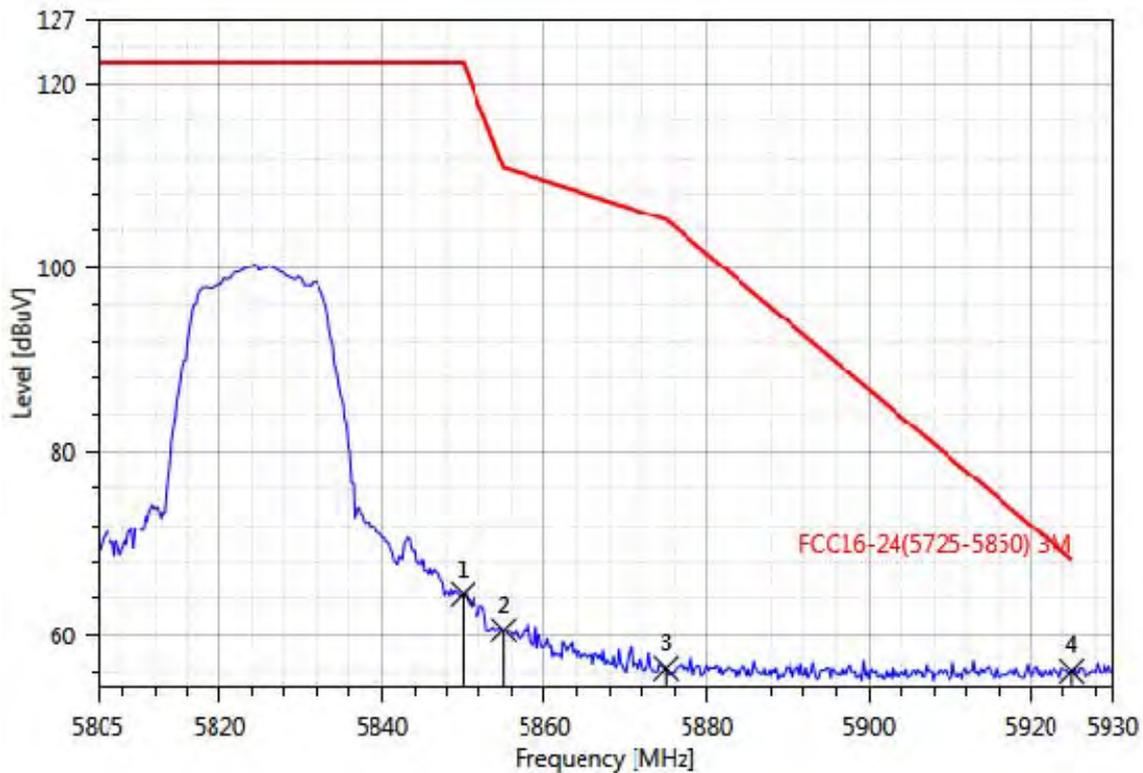
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Operation Mode : 802.11 aB4 Test Date : 01/12/2017  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5850.00	E	Peak	64.44	57.16	7.28	122.23	-57.79
5855.00	E	Peak	60.58	53.26	7.32	110.83	-50.25
5875.00	E	Peak	56.44	49.07	7.37	105.23	-48.79
5925.00	E	Peak	56.16	48.76	7.39	68.23	-12.07

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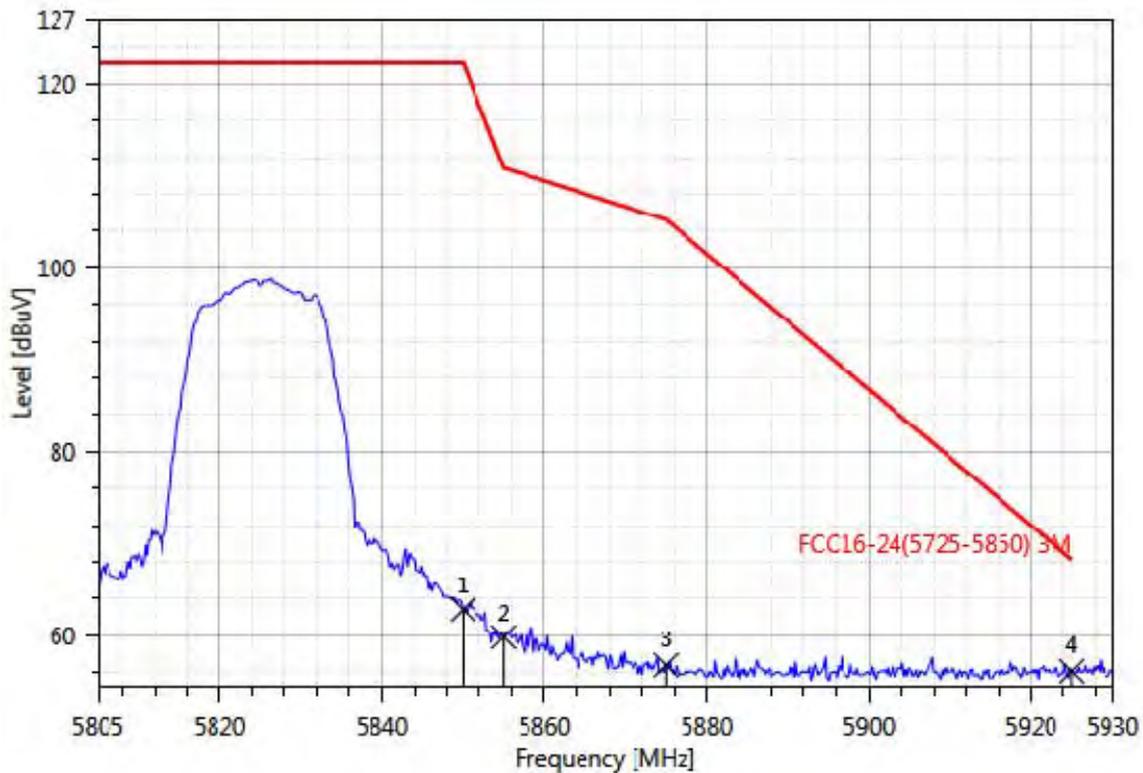
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Operation Mode : 802.11 aB4 Test Date : 01/12/2017  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5850.00	E	Peak	62.81	55.53	7.28	122.23	-59.42
5855.00	E	Peak	59.81	52.49	7.32	110.83	-51.02
5875.00	E	Peak	56.79	49.42	7.37	105.23	-48.44
5925.00	E	Peak	56.15	48.76	7.39	68.23	-12.08

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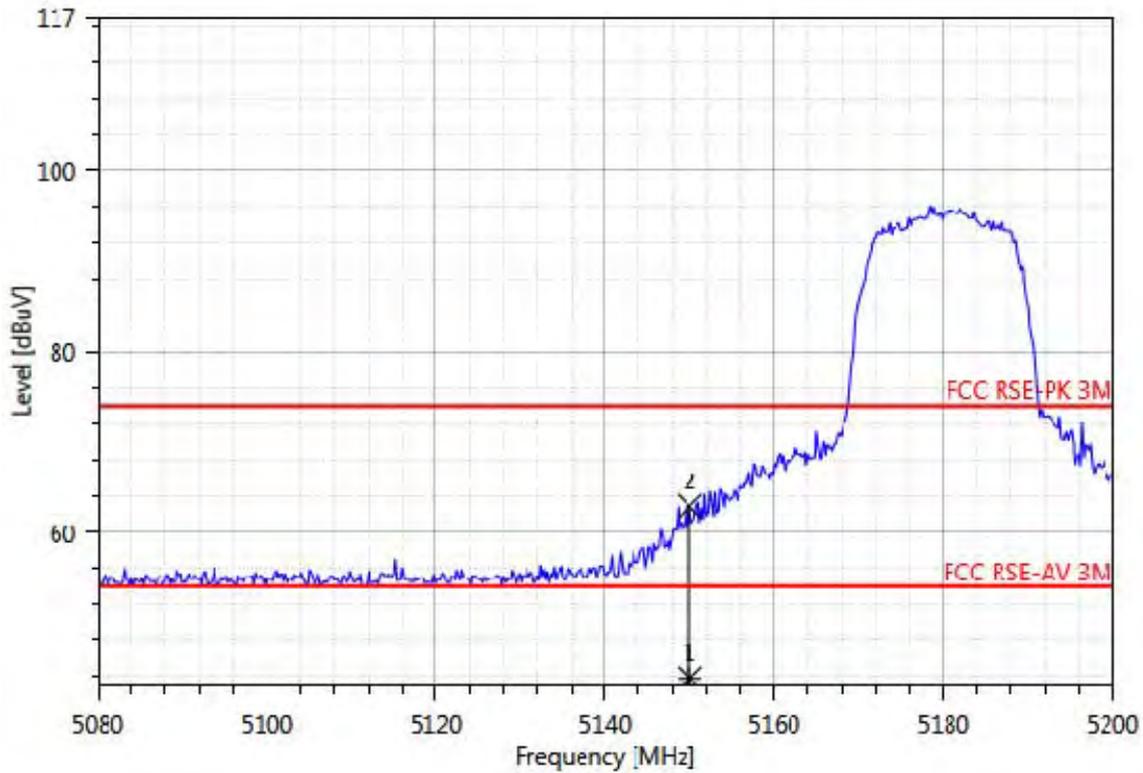
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### 802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	01/12/2017
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge 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
5150.00	E	Average	43.83	37.95	5.88	54.00	-10.17
5150.00	E	Peak	62.90	57.02	5.88	74.00	-11.10

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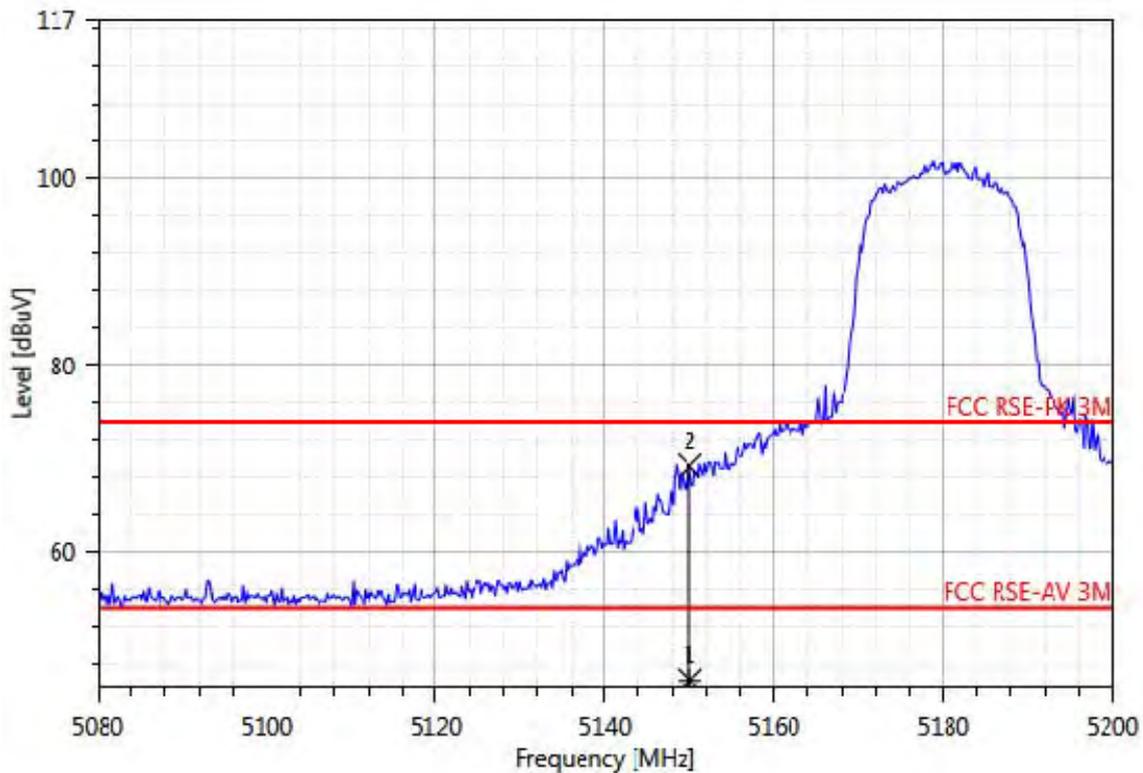
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Operation Mode : 802.11n20B1 Test Date : 01/12/2017  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5150.00	E	Average	46.24	40.36	5.88	54.00	-7.76
5150.00	E	Peak	69.27	63.39	5.88	74.00	-4.73

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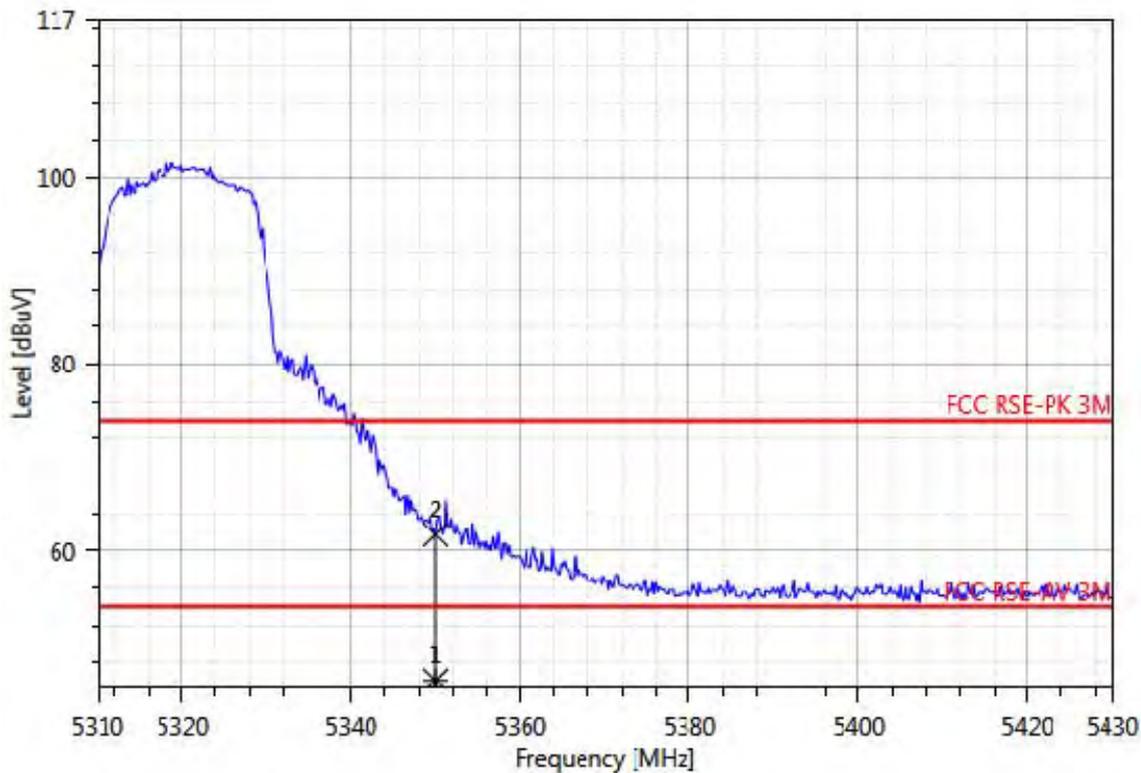
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Operation Mode : 802.11n20B2 Test Date : 01/12/2017  
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5350.00	E	Average	46.07	39.92	6.15	54.00	-7.93
5350.00	E	Peak	61.70	55.55	6.15	74.00	-12.30

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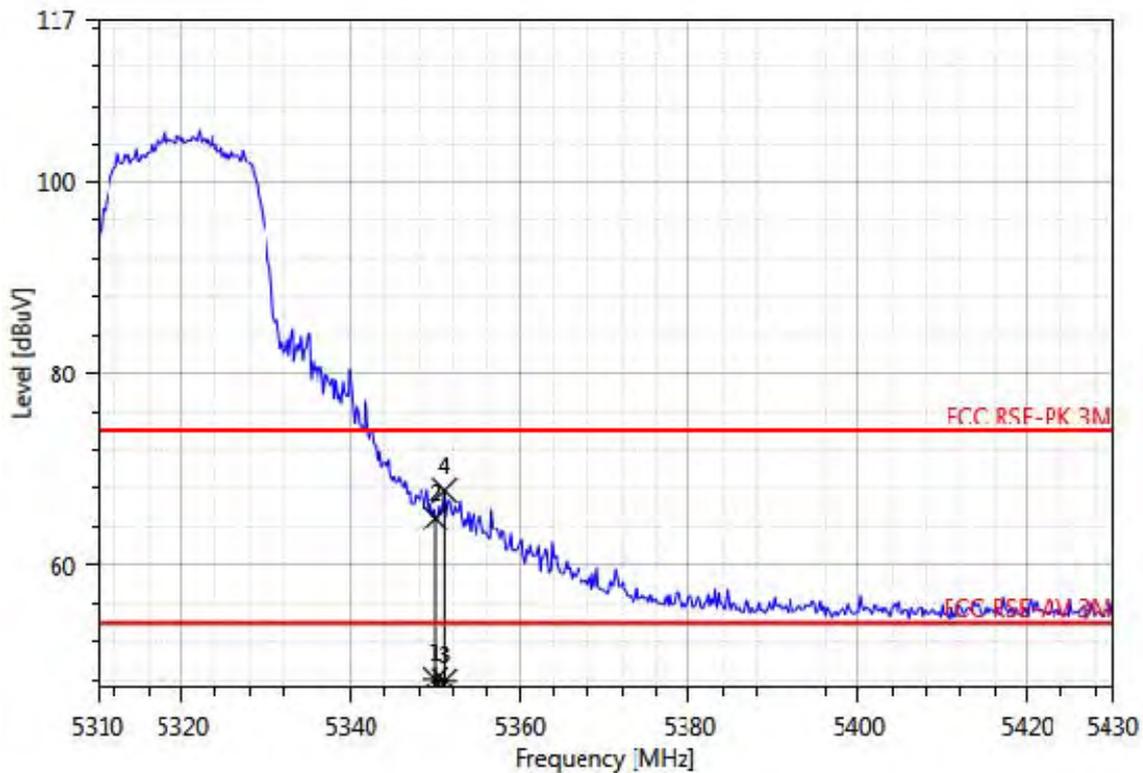
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Operation Mode : 802.11n20B2      Test Date : 01/12/2017  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
5350.00	E	Average	48.11	41.96	6.15	54.00	-5.89
5350.00	E	Peak	64.93	58.77	6.15	74.00	-9.07
5351.04	S	Average	47.94	41.80	6.14	54.00	-6.06
5351.04	S	Peak	67.74	61.60	6.14	74.00	-6.26

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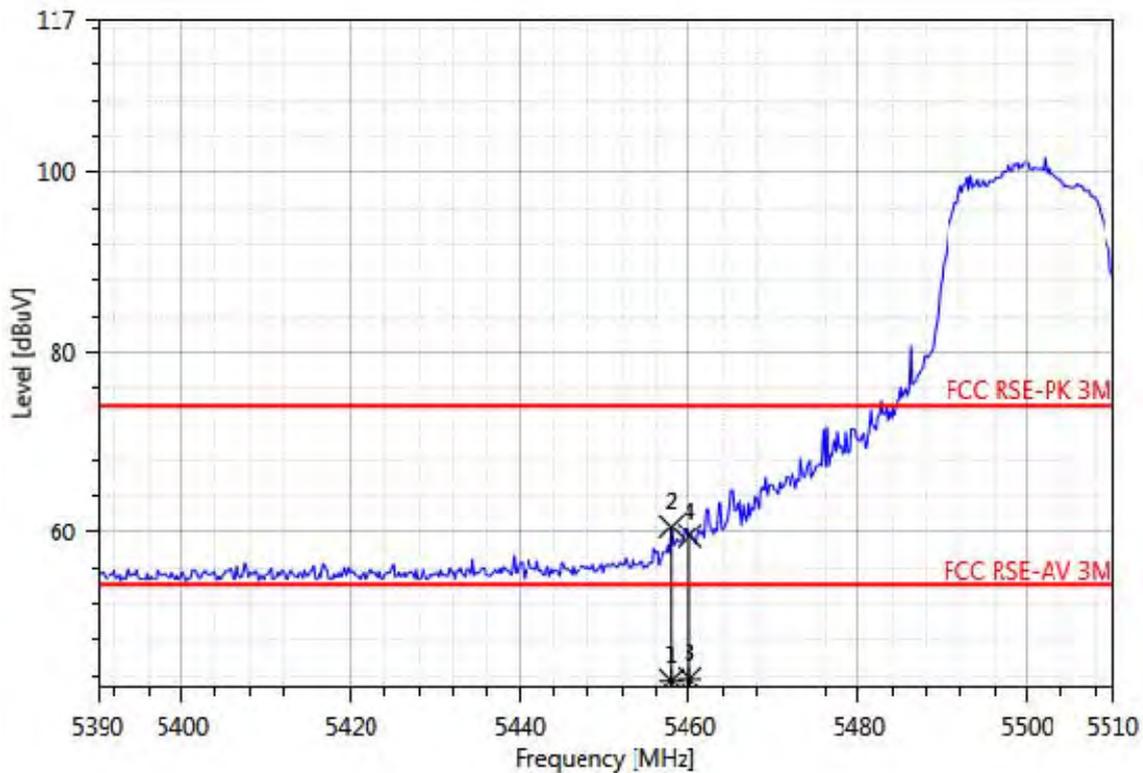
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Operation Mode : 802.11n20B3 Test Date : 01/12/2017  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5457.80	E	Average	43.43	37.20	6.23	54.00	-10.57
5457.80	E	Peak	60.55	54.32	6.23	74.00	-13.45
5460.00	E	Average	43.60	37.37	6.23	54.00	-10.40
5460.00	E	Peak	59.52	53.28	6.23	74.00	-14.48

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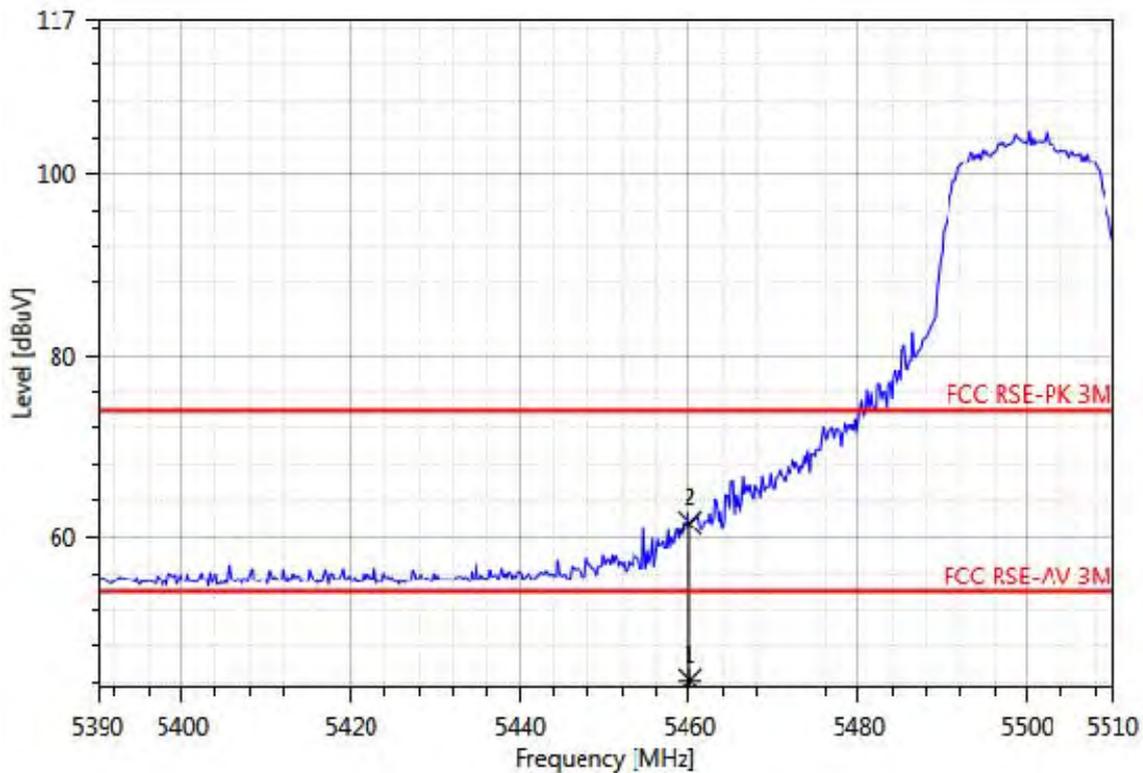
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Operation Mode : 802.11n20B3      Test Date : 01/12/2017  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5460.00	E	Average	44.24	38.01	6.23	54.00	-9.76
5460.00	E	Peak	61.56	55.33	6.23	74.00	-12.44

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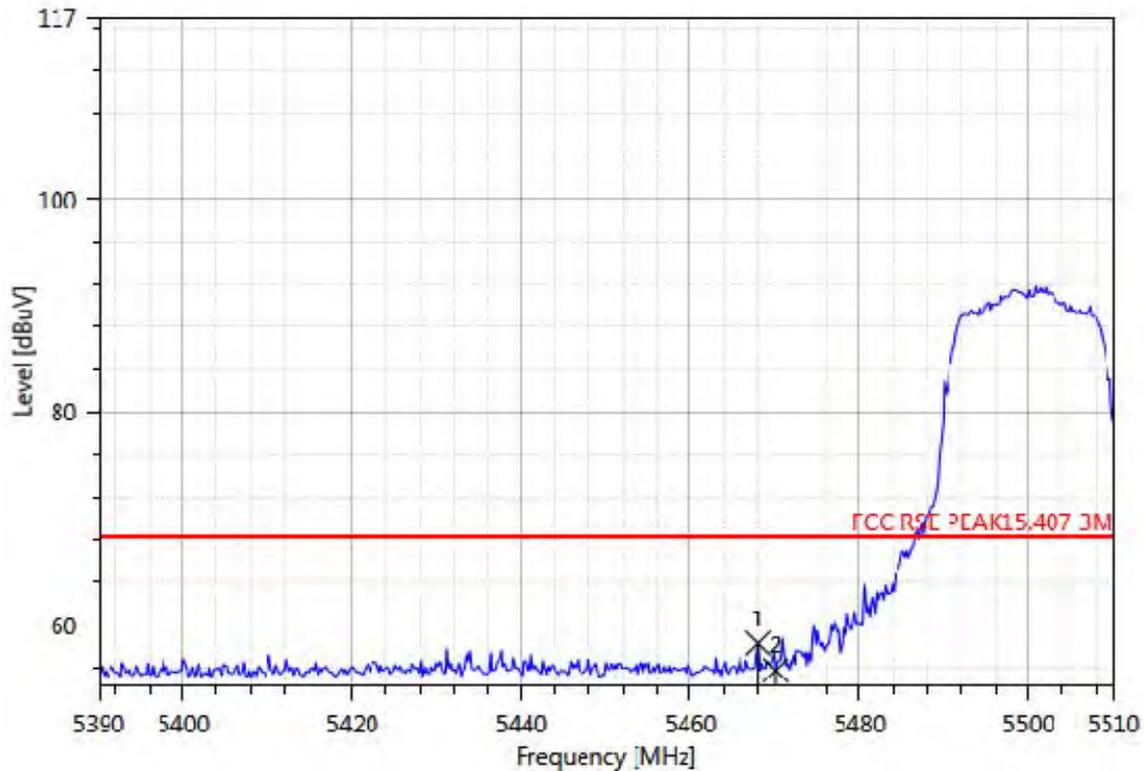
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 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL



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
5468.00	S	Peak	58.30	52.04	6.26	68.30	-10.00
5470.00	E	Peak	55.80	49.53	6.26	68.30	-12.50

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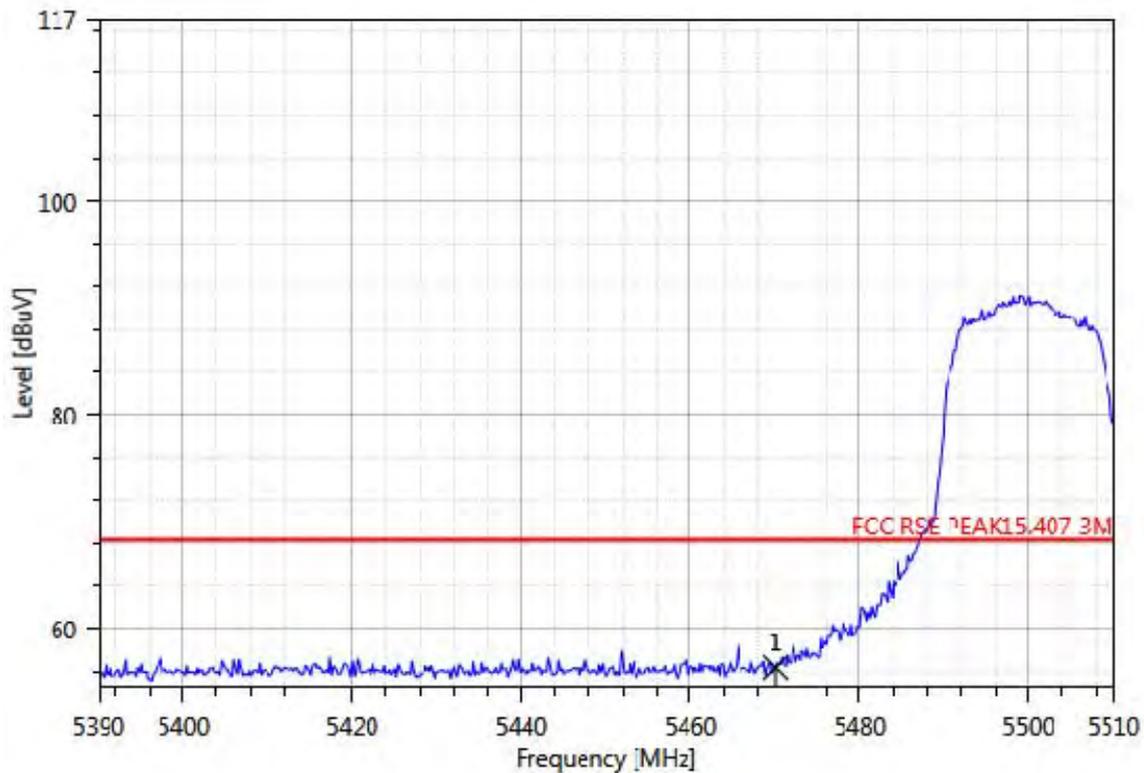
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Operation Mode : 802.11n20B3      Test Date : 01/12/2017  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



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
5470.00	E	Peak	56.41	50.14	6.26	68.30	-11.89

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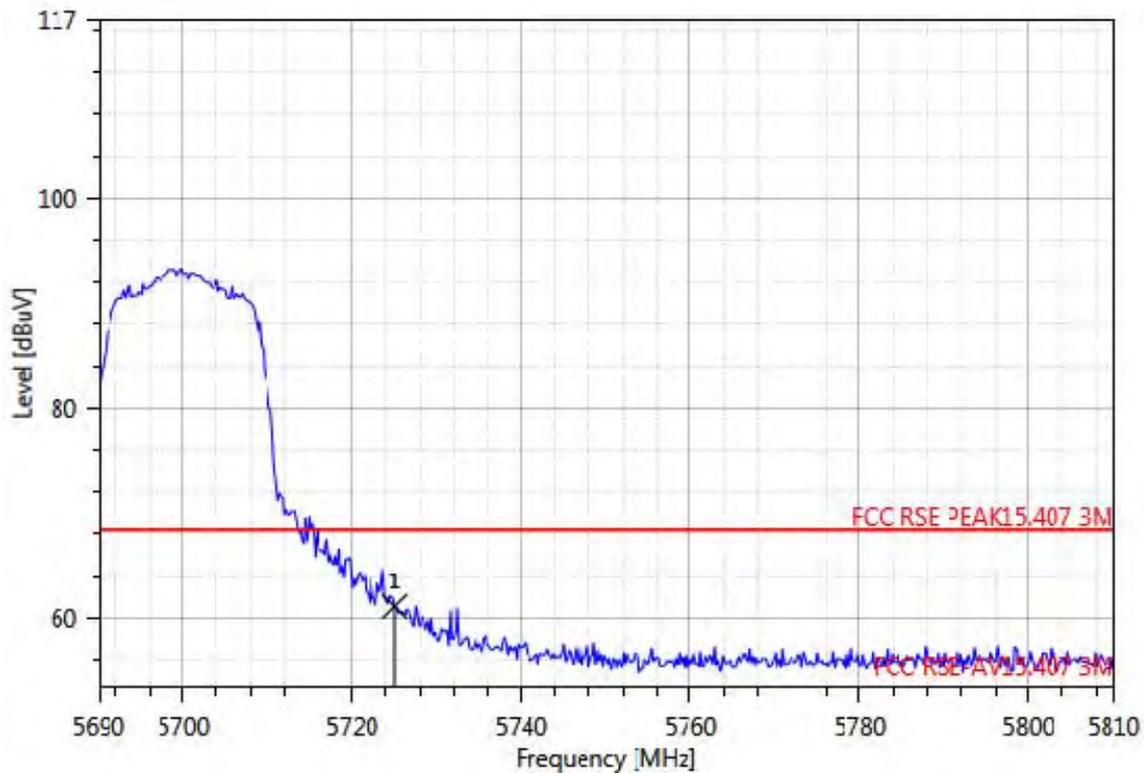
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Operation Mode : 802.11n20B3      Test Date : 01/12/2017  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	61.05	54.46	6.59	68.30	-7.25

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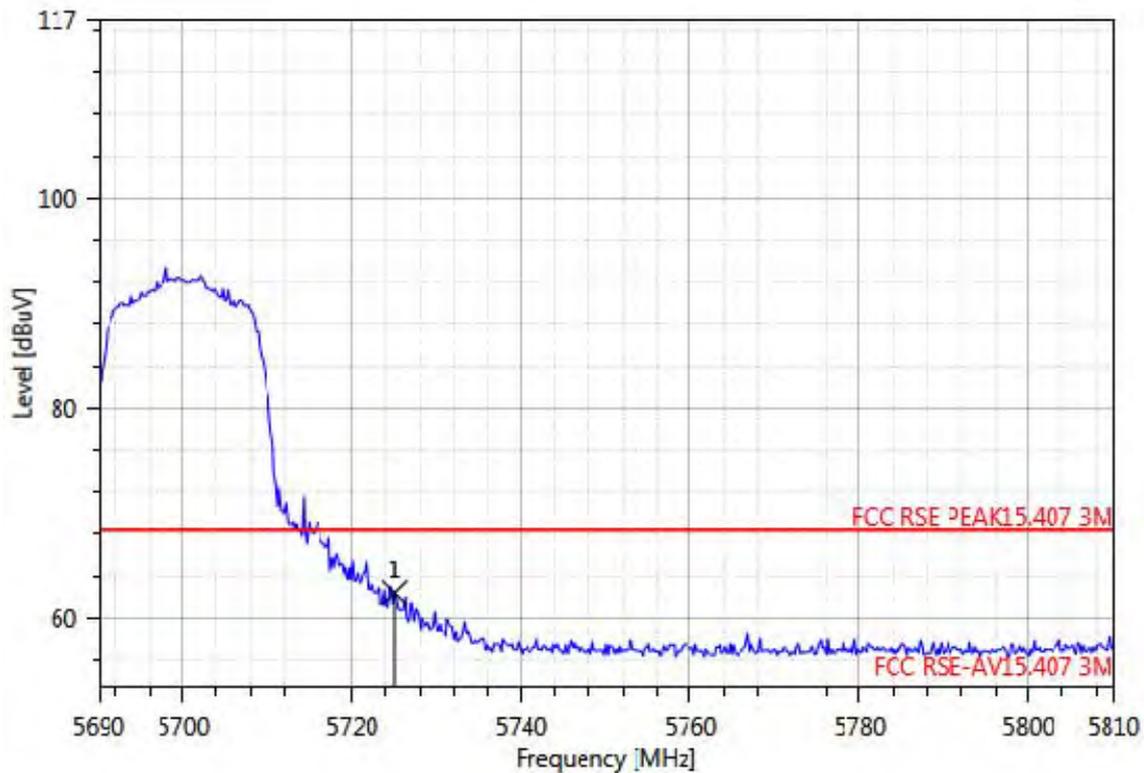
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Operation Mode : 802.11n20B3      Test Date : 01/12/2017  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
5725.00	E	Peak	62.28	55.69	6.59	68.30	-6.02

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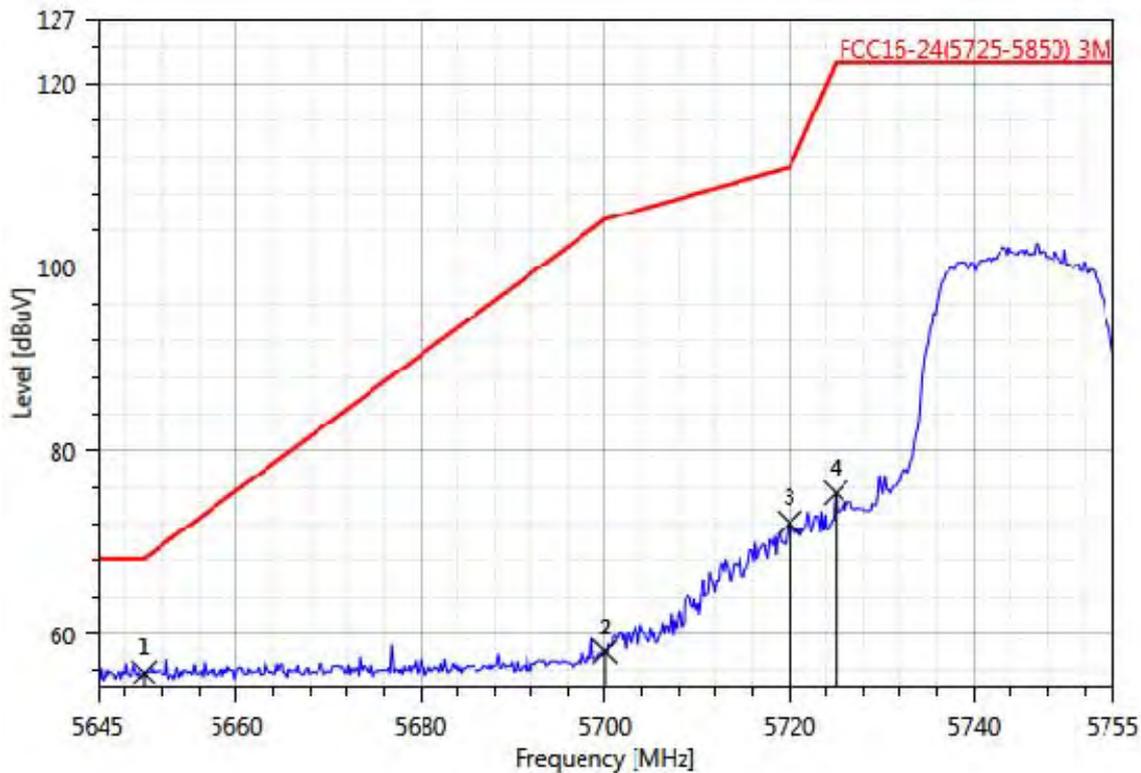
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Operation Mode : 802.11n20B4 Test Date : 01/12/2017  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5650.00	E	Peak	55.77	49.29	6.48	68.23	-12.46
5700.00	E	Peak	58.08	51.41	6.68	105.23	-47.15
5720.00	E	Peak	72.12	65.52	6.60	110.83	-38.71
5725.00	E	Peak	75.38	68.79	6.59	122.23	-46.85

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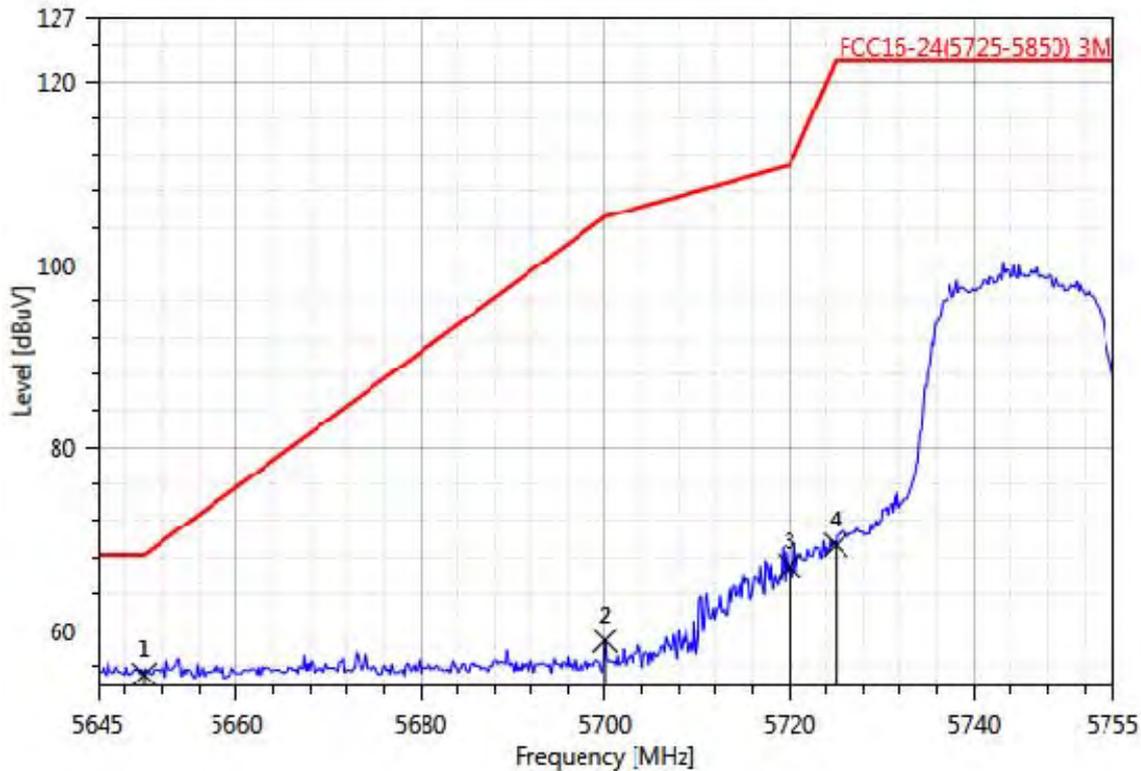
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Operation Mode : 802.11n20B4 Test Date : 01/12/2017  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5650.00	E	Peak	55.15	48.67	6.48	68.23	-13.08
5700.00	E	Peak	58.88	52.20	6.68	105.23	-46.35
5720.00	E	Peak	67.02	60.42	6.60	110.83	-43.81
5725.00	E	Peak	69.32	62.73	6.59	122.23	-52.91

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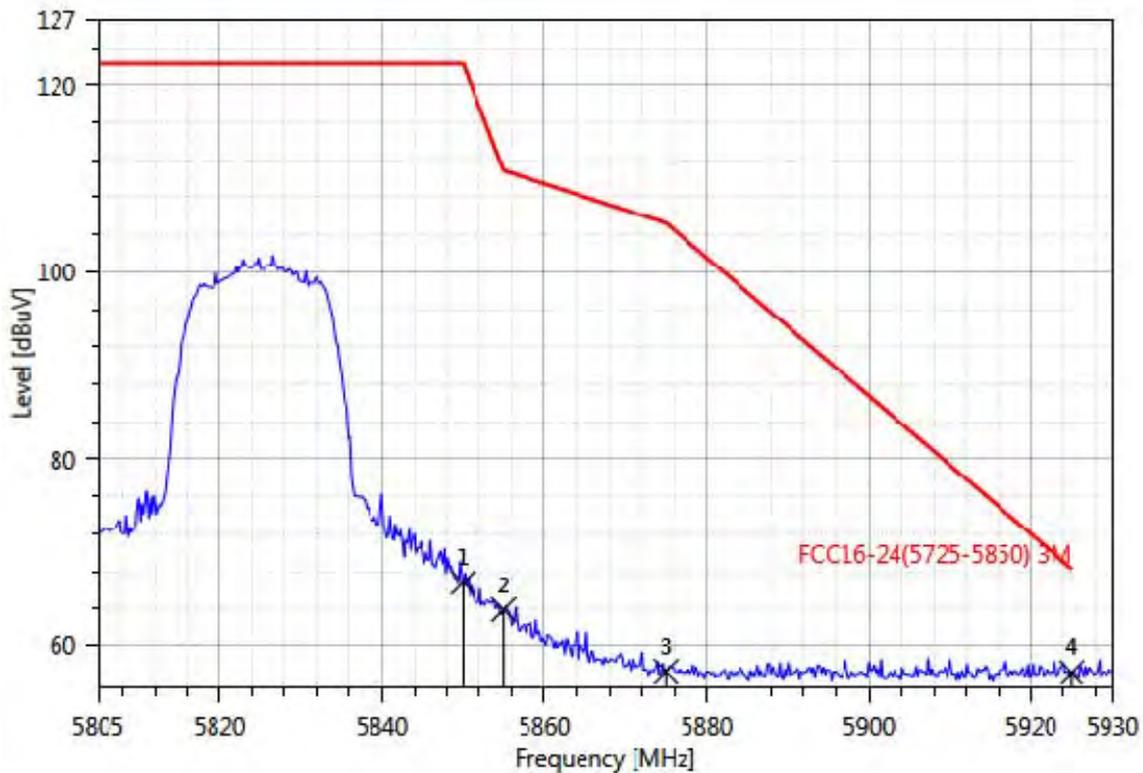
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Operation Mode : 802.11n20B4      Test Date : 01/12/2017  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
5850.00	E	Peak	66.78	59.49	7.28	122.23	-55.45
5855.00	E	Peak	63.92	56.60	7.32	110.83	-46.91
5875.00	E	Peak	57.29	49.92	7.37	105.23	-47.94
5925.00	E	Peak	57.13	49.74	7.39	68.23	-11.10

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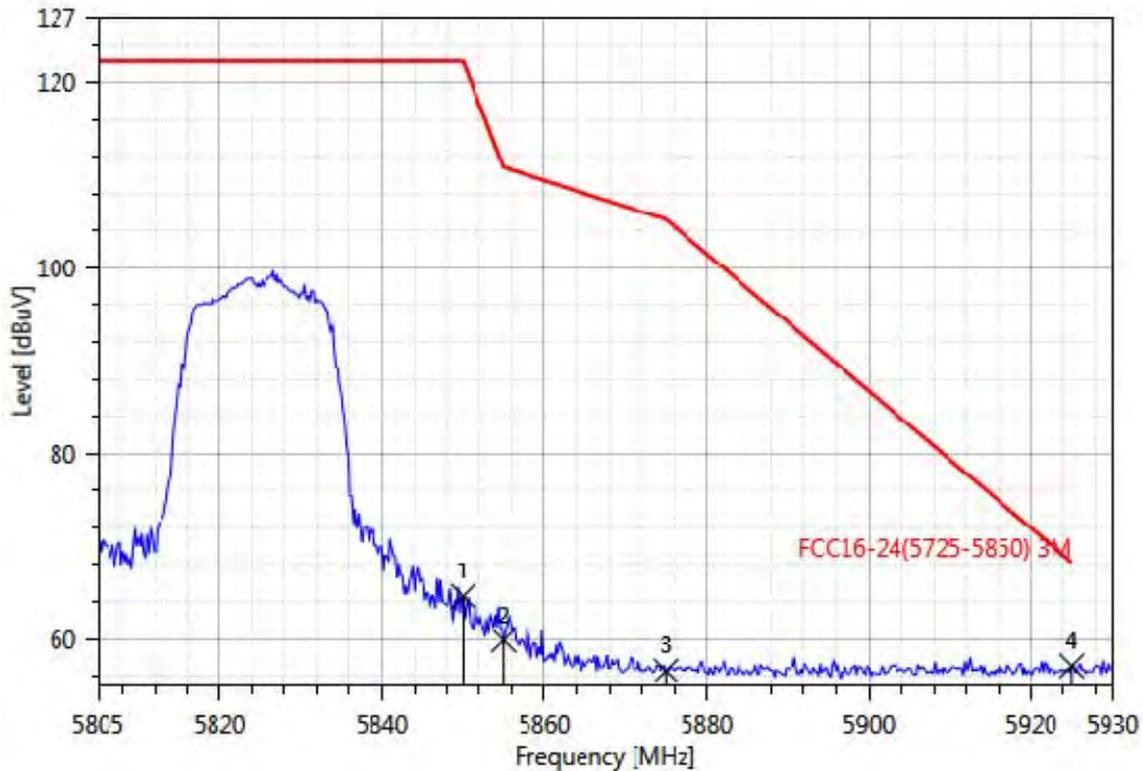
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Operation Mode : 802.11n20B4      Test Date : 01/12/2017  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
5850.00	E	Peak	64.59	57.31	7.28	122.23	-57.64
5855.00	E	Peak	59.86	52.55	7.32	110.83	-50.97
5875.00	E	Peak	56.59	49.22	7.37	105.23	-48.64
5925.00	E	Peak	57.11	49.72	7.39	68.23	-11.12

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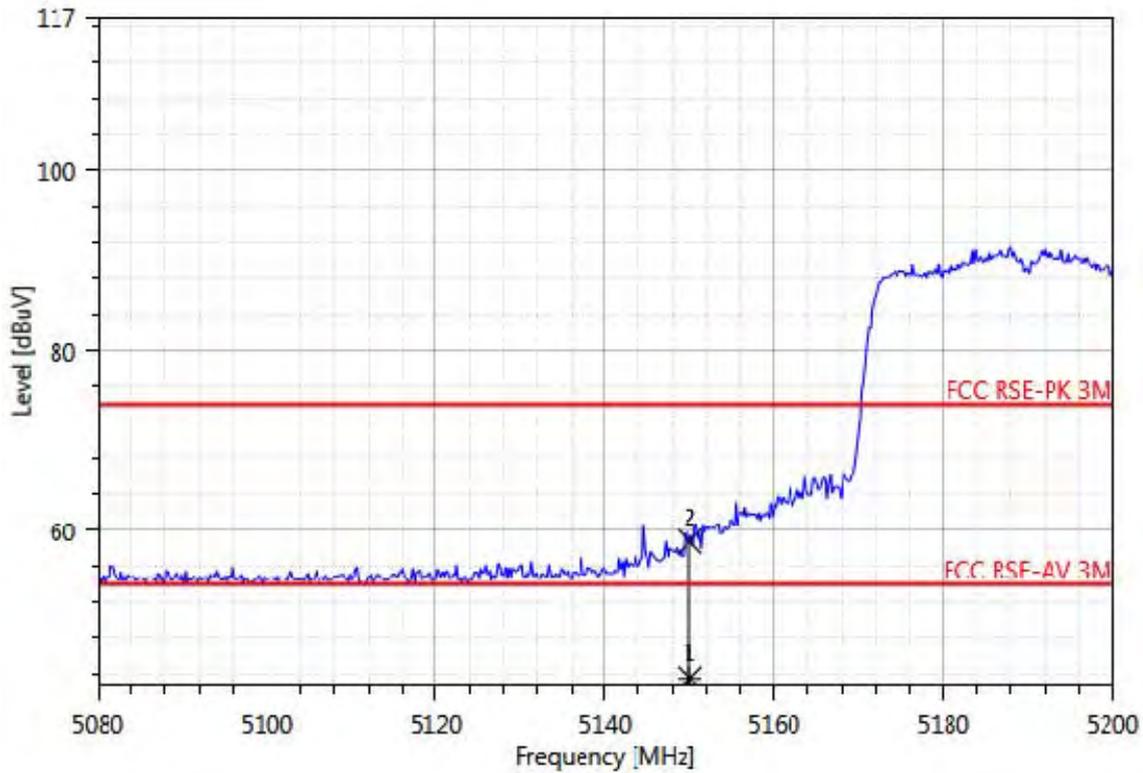
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### 802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	01/12/2017
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Bandedge 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
5150.00	E	Average	43.56	37.68	5.88	54.00	-10.44
5150.00	E	Peak	58.75	52.87	5.88	74.00	-15.25

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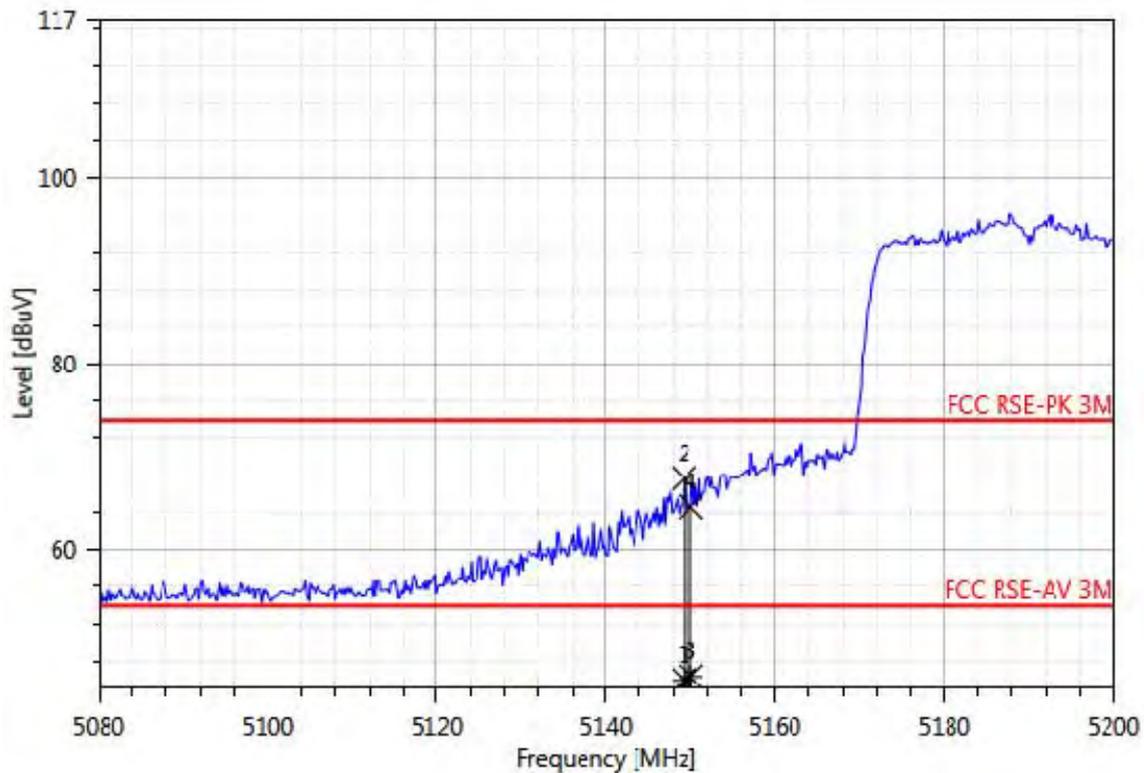
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Operation Mode : 802.11n40B1 Test Date : 01/12/2017  
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5149.24	S	Average	45.96	40.08	5.88	54.00	-8.04
5149.24	S	Peak	67.69	61.80	5.88	74.00	-6.31
5150.00	E	Average	46.36	40.48	5.88	54.00	-7.64
5150.00	E	Peak	64.64	58.75	5.88	74.00	-9.36

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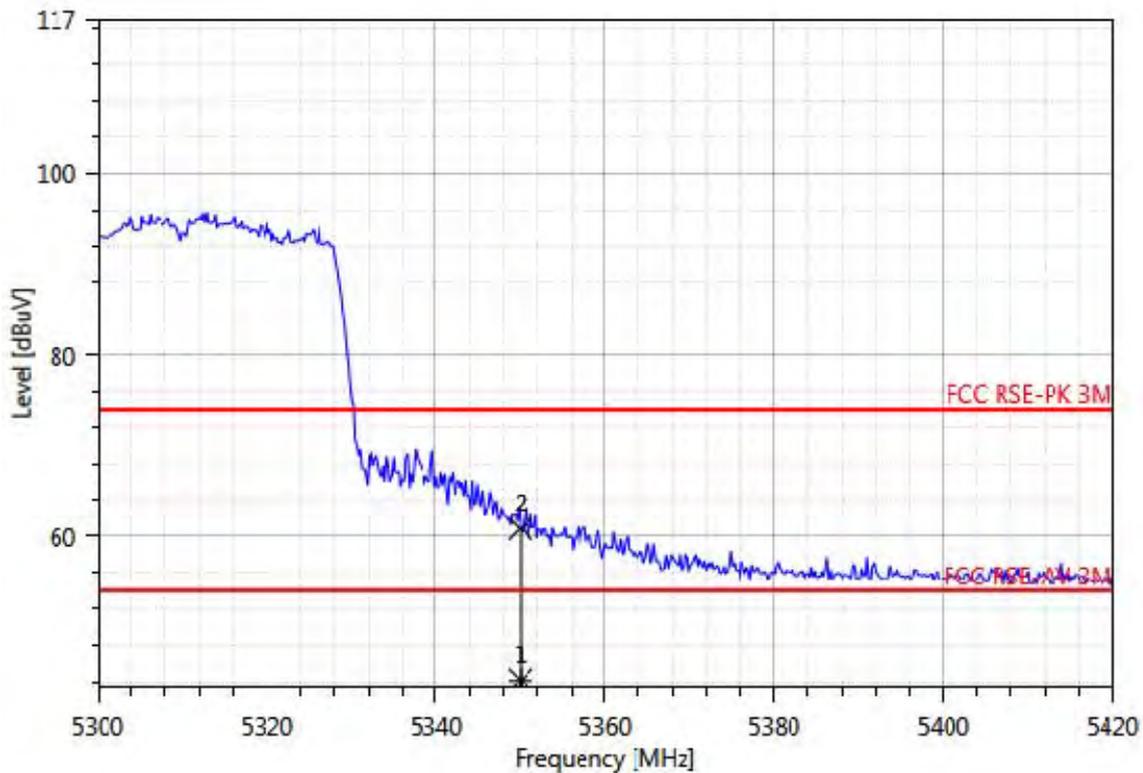
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Operation Mode : 802.11n40B2 Test Date : 01/12/2017  
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5350.00	E	Average	44.13	37.98	6.15	54.00	-9.87
5350.00	E	Peak	60.89	54.74	6.15	74.00	-13.11

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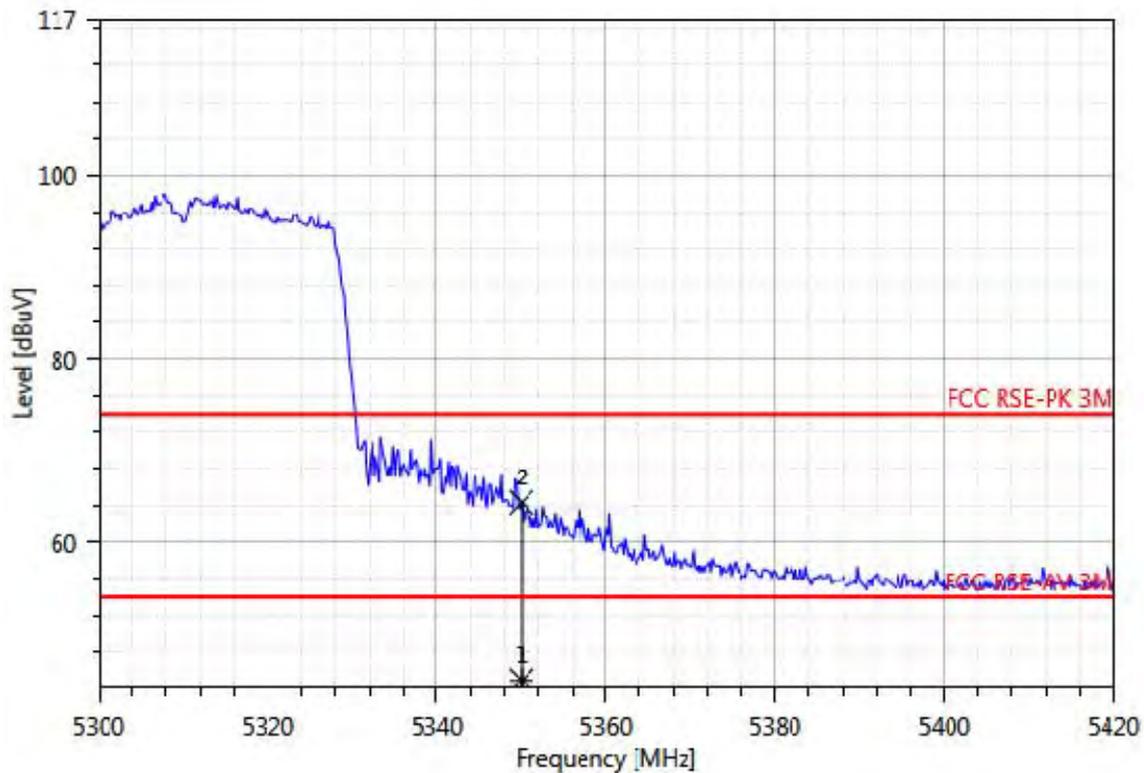
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Operation Mode : 802.11n40B2 Test Date : 01/12/2017  
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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
5350.00	E	Average	44.94	38.79	6.15	54.00	-9.06
5350.00	E	Peak	64.34	58.19	6.15	74.00	-9.66

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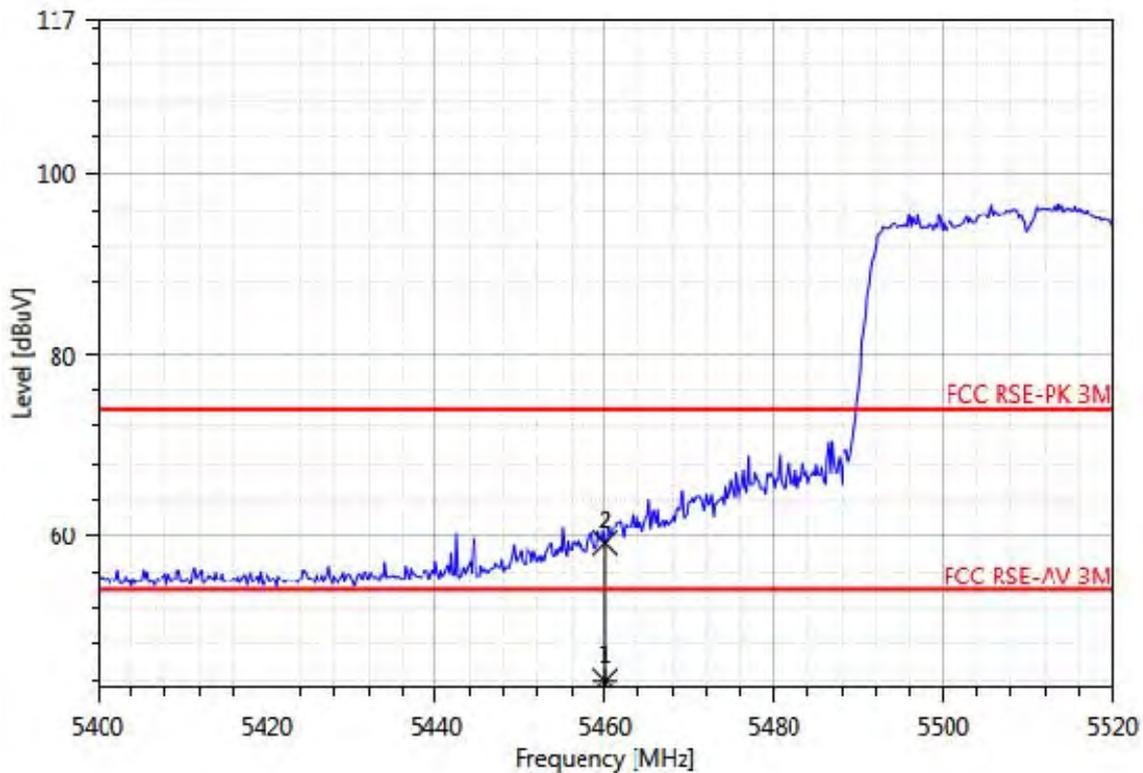
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Operation Mode : 802.11n40B3 Test Date : 01/12/2017  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5460.00	E	Average	44.03	37.80	6.23	54.00	-9.97
5460.00	E	Peak	59.15	52.92	6.23	74.00	-14.85

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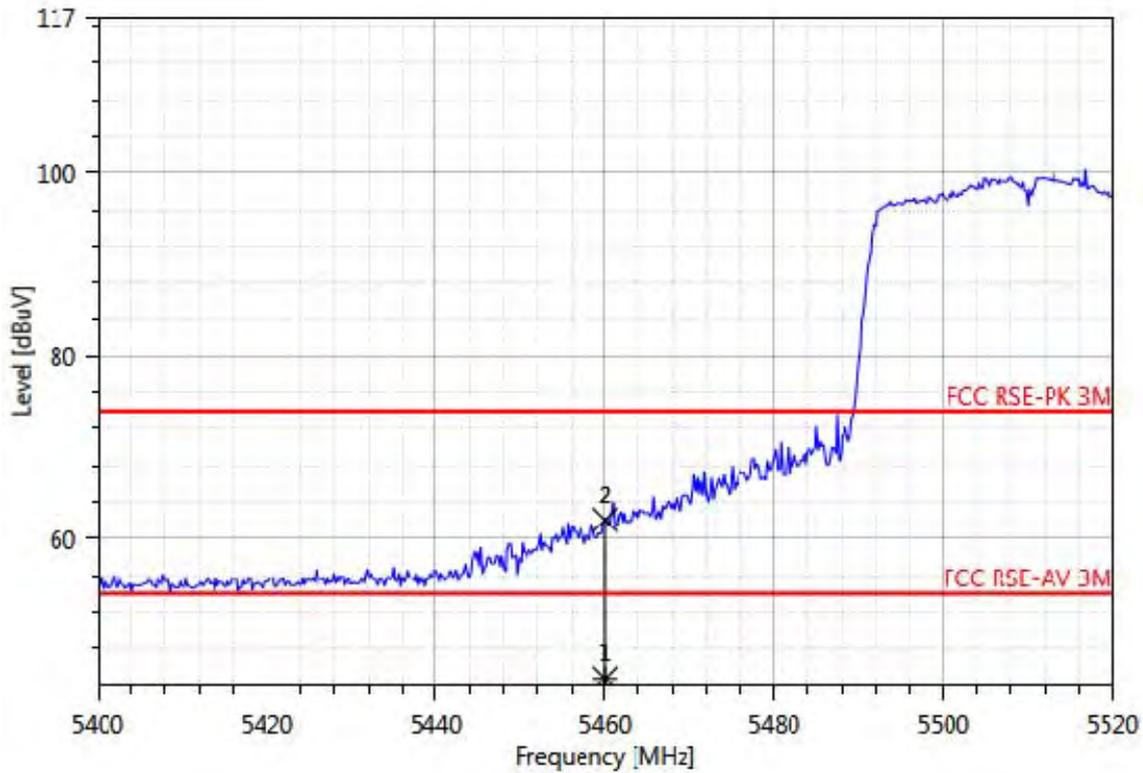
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Operation Mode : 802.11n40B3      Test Date : 01/12/2017  
 Fundamental Frequency : 5510 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
5460.00	E	Average	44.75	38.52	6.23	54.00	-9.25
5460.00	E	Peak	62.07	55.84	6.23	74.00	-11.93

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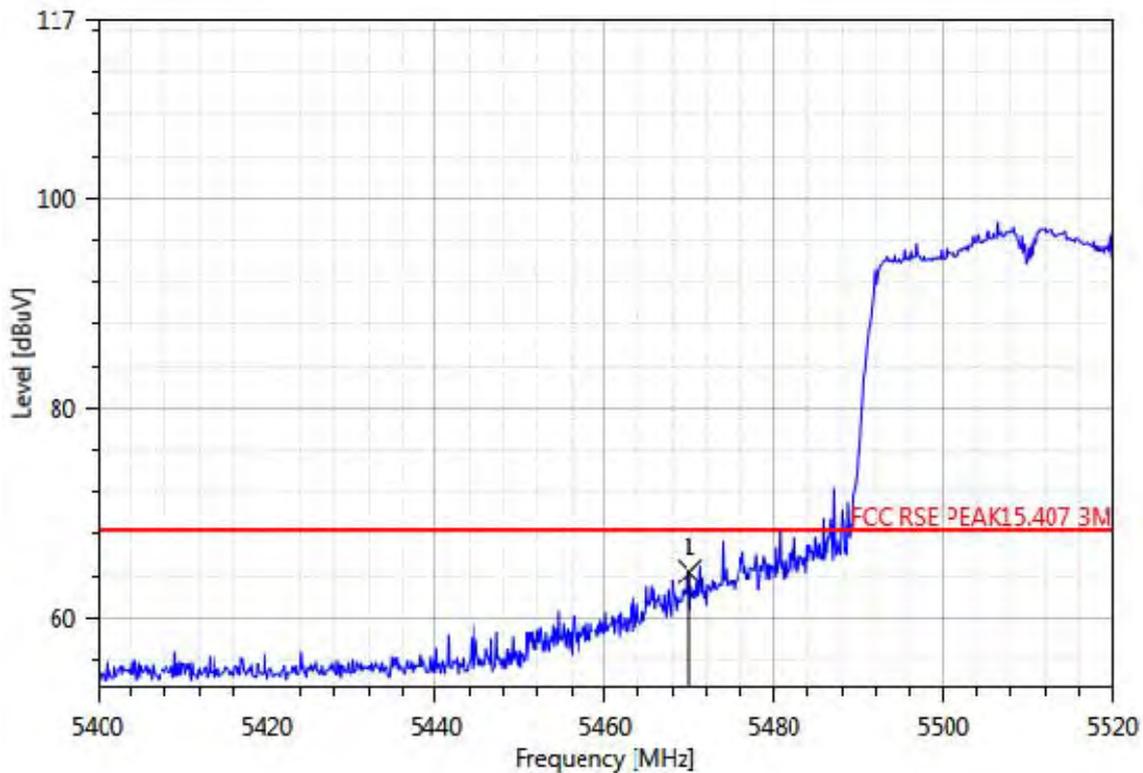
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Operation Mode : 802.11n40B3      Test Date : 01/12/2017  
 Fundamental Frequency : 5510 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL



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
5470.00	E	Peak	64.39	58.13	6.26	68.30	-3.91

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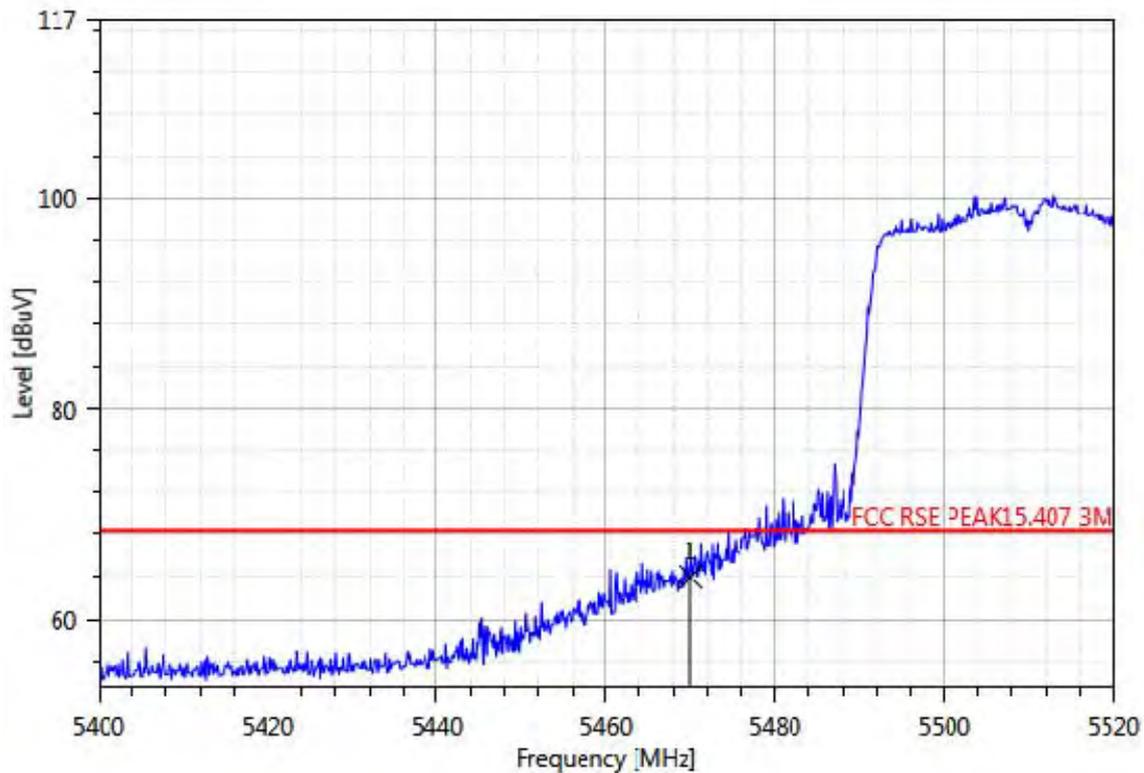
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Operation Mode : 802.11n40B3 Test Date : 01/12/2017  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	64.00	57.74	6.26	68.30	-4.30

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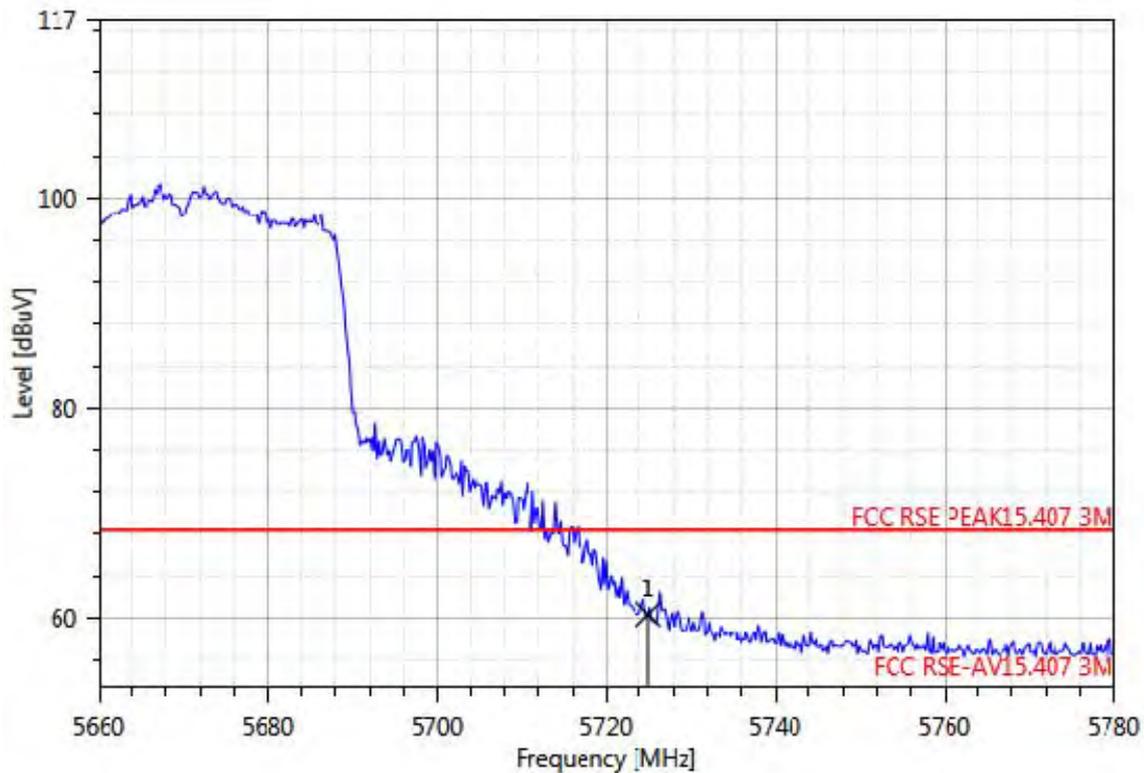
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Operation Mode : 802.11n40B3 Test Date : 01/12/2017  
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5725.00	E	Peak	60.29	53.70	6.59	68.30	-8.01

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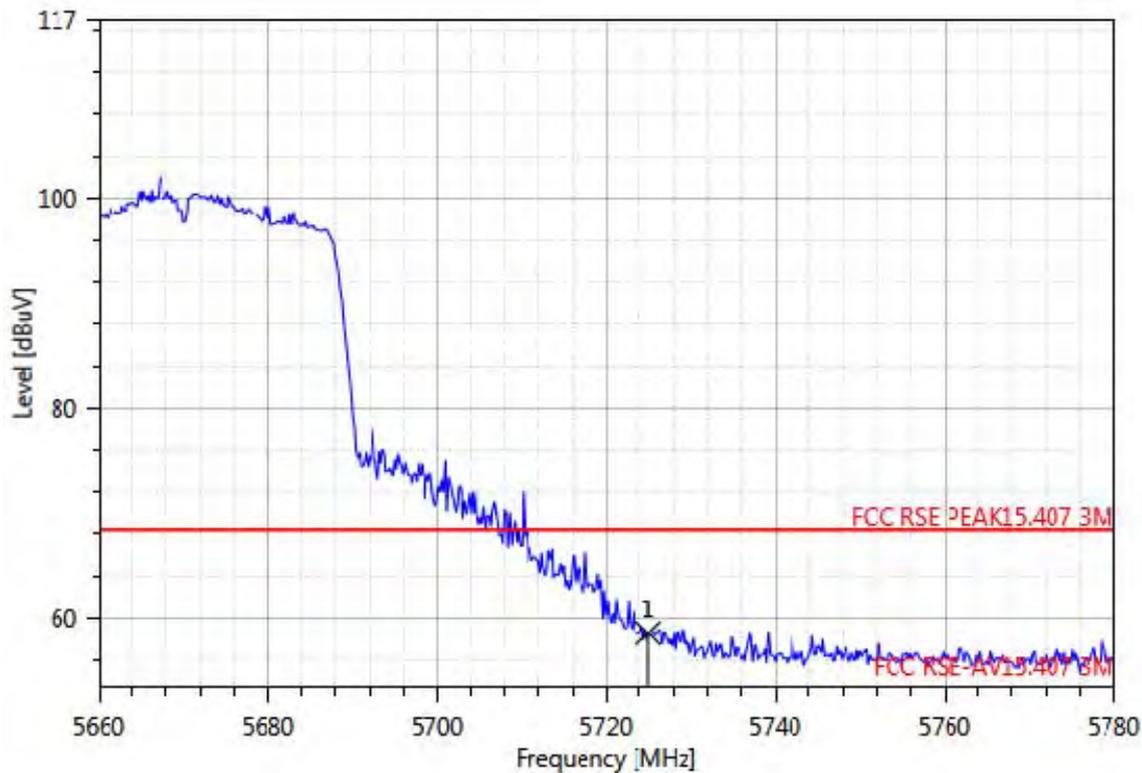
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Operation Mode : 802.11n40B3      Test Date : 01/12/2017  
 Fundamental Frequency : 5670 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	58.50	51.91	6.59	68.30	-9.80

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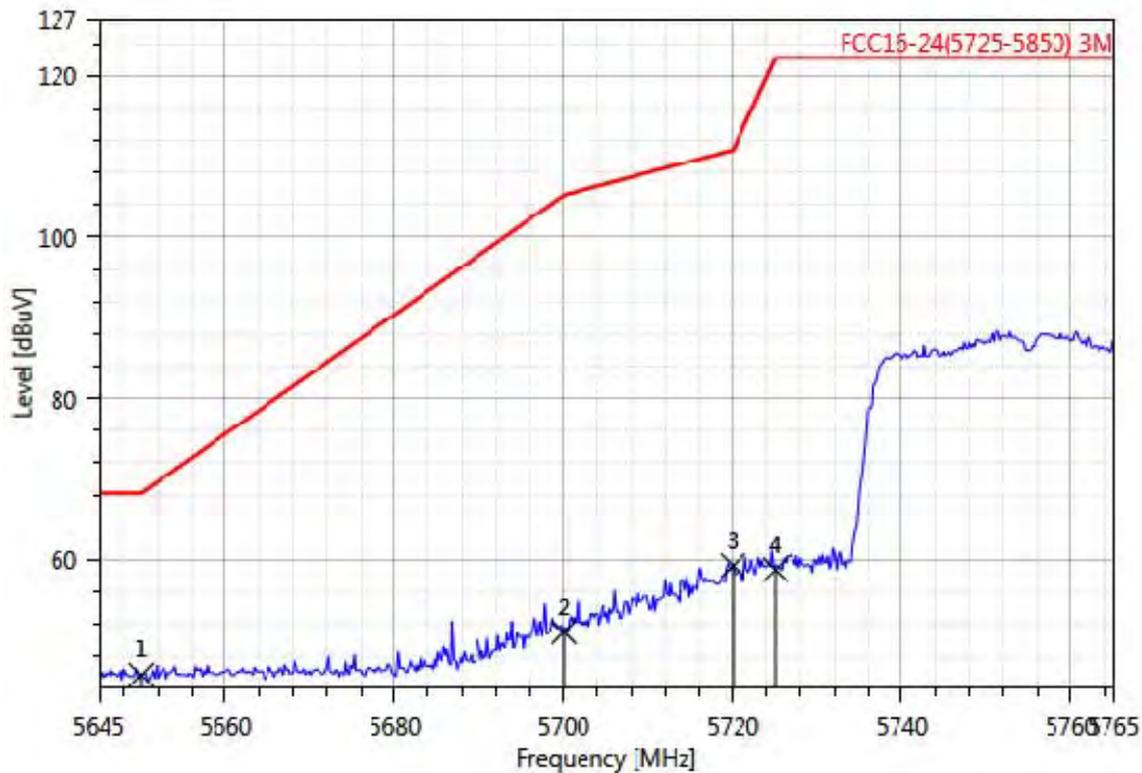
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Operation Mode : 802.11n40B4 Test Date : 01/12/2017  
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Mike  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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
5650.00	E	Peak	45.73	39.25	6.48	68.23	-22.50
5700.00	E	Peak	51.02	44.35	6.68	105.23	-54.21
5720.00	E	Peak	59.30	52.70	6.60	110.83	-51.53
5725.00	E	Peak	58.79	52.20	6.59	122.23	-63.44

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