ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name:	**SX-PCEAC-DB**
Marketing Name:	**SX-PCEAC-DB**
Brand Name:	**SX-PCEAC-DB**
Model No.:	**SX-PCEAC-DB**
Model Difference:	**N/A**
FCC ID:	**N6C-SXPCEACDB**
Report No.:	**ER/2016/20015**
Issue Date:	**Mar. 23, 2016**
FCC Rule Part:	**§15.407**
Prepared for:	**Silex Technology, Inc. Hikaridai 2-3-1, Seika-cho, Kyoto 619-0237, Japan**
Prepared by:	**SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803**

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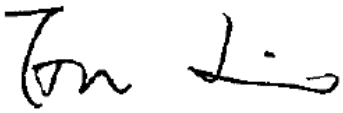
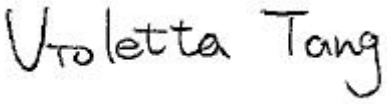
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VERIFICATION OF COMPLIANCE

Applicant:	Silex Technology, Inc. Hikaridai 2-3-1, Seika-cho, Kyoto 619-0237, Japan
Product Name:	SX-PCEAC-DB
Marketing Name:	SX-PCEAC-DB
Brand Name:	SX-PCEAC-DB
Model No.:	SX-PCEAC-DB
Model Difference:	N/A
FCC ID:	N6C-SXPCEACDB
File Number:	ER/2016/20015
Date of Test:	Feb. 15, 2016 ~ Mar. 21, 2016
Date of EUT Received:	Feb. 15, 2016

We hereby certify that:

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

Test By:		***Date:***	Mar. 23, 2016
	Tin LIn / Engineer		
Prepared By:		***Date:***	Mar. 23, 2016
	Violetta Tang / Clerk		
Approved By:		***Date:***	Mar. 23, 2016
	Jim Chang / Asst. Manager		

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/20015	Rev.00	Initial creation of document	Mar. 23, 2016

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	SX-PCEAC-DB
Marketing Name:	SX-PCEAC-DB
Brand Name:	SX-PCEAC-DB
Model No.:	SX-PCEAC-DB
Model Difference:	N/A
Product SW/HW version:	N/A / Ver.1
Radio SW/HW version:	10.2.00084-2 / BR4A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3V from DC Power Supply

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	16.79 dBm	OFDM
	5250~5350	4	16.76 dBm	
	5470~5725	12	18.75 dBm	
	5725-5850	5	20.79 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 12.75 dBm (Worst Case)	OFDM
	HT20 / VHT20 5250~5350	4	HT: 12.25 dBm (Worst Case)	
	HT20 / VHT20 5470~5725	11	HT: 15.78 dBm (Worst Case)	
	HT20 / VHT20 5725-5850	5	HT: 21.26 dBm (Worst Case)	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 12.29 dBm (Worst Case)	OFDM
	HT40 / VHT40 5250~5350	2	HT: 13.27 dBm (Worst Case)	
	HT40 / VHT40 5470~5725	5	VHT: 16.28 dBm (Worst Case)	
	HT40 / VHT40 5725-5850	2	HT: 19.77 dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	12.65 dBm	OFDM
	VHT80 5250~5350	1	12.15 dBm	
	VHT80 5470~5725	2	16.78 dBm	
	VHT80 5725-5850	1	11.49 dBm	

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Antenna Designation	PCB Antenna (Dipole Antenna) 1. Partl No.: 146153, Supplier: Molex 5GHz Gain: 5dBi (5150MHz-5250MHz) 5GHz Gain: 5dBi (5250MHz-5350MHz) 5GHz Gain: 5dBi (5470MHz-5725MHz) 5GHz Gain: 5dBi (5725MHz-5850MHz) 2. Part No.: H2B1PD1A1C (AA222), Supplier: Unictron 5GHz Gain: 4.2dBi (5150MHz-5250MHz) 5GHz Gain: 4.2dBi (5250MHz-5350MHz) 5GHz Gain: 4.2dBi (5470MHz-5725MHz) 5GHz Gain: 4.2dBi (5725MHz-5850MHz) 3. Part No.: H2B1PC1A1C (AA258), Supplier: Unictron 5GHz Gain: 4.4dBi (5150MHz-5250MHz) 5GHz Gain: 4.4dBi (5250MHz-5350MHz) 5GHz Gain: 4.4dBi (5470MHz-5725MHz) 5GHz Gain: 4.4dBi (5725MHz-5850MHz)
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps

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1.2 Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	SX-PCEAC-DB
Marketing Name:	SX-PCEAC-DB
Brand Name:	SX-PCEAC-DB
Model No.:	SX-PCEAC-DB
Model Difference:	N/A
FCC ID:	N6C-SXPCEACDB
Wi-Fi Specification	802.11a/b/g/n/ac

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4 Test Facility

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

FCC Registration Numbers are: 990257

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.

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Following shows an offset computation example with cable loss 6.6dB, and 10dB attenuator.
MIMO mode offset
= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(N_{ANT}) dB =16.6(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

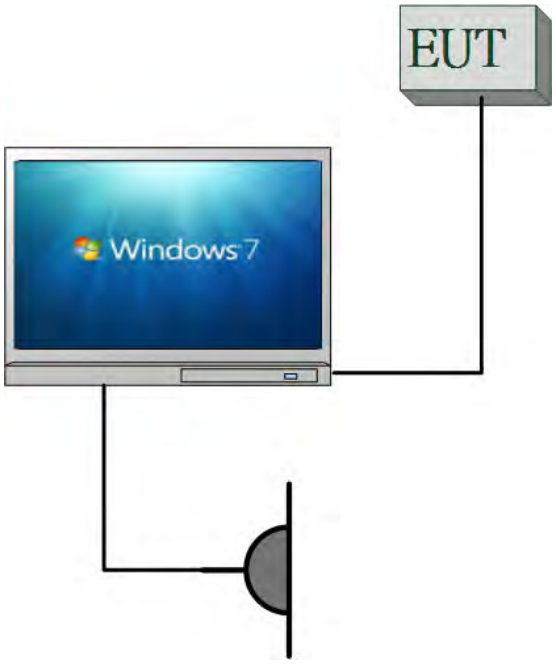


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

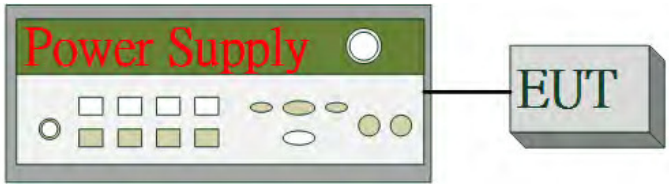


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	LR-7HXZA	N/A	Un-shielded
3.	DC Power Supply	HP	E3640A	KR93300208	N/A	Un-shielded

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3. SUMMARY OF TEST RESULT

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

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

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

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

5 channels are provided for 802.11n_HT40, 802.11ac_VHT40

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

2 channesl are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz

Operated band in 5725 MHz ~5850 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

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	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MIMO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MIMO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

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

6.2. Measurement Equipment Used

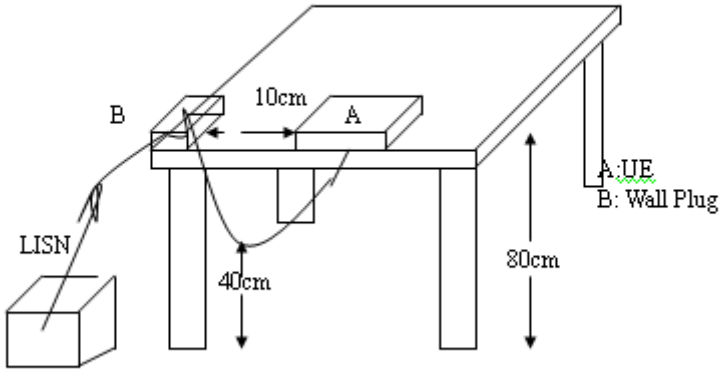
Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/15/2015	05/14/2016
LISN	FCC	FCC-LISN-50/250-25-2-01	4034	03/13/2015	03/12/2016
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016

6.3. EUT Setup

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

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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

N/A, the device is powered by 3.3V DC Power Supply.

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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:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

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

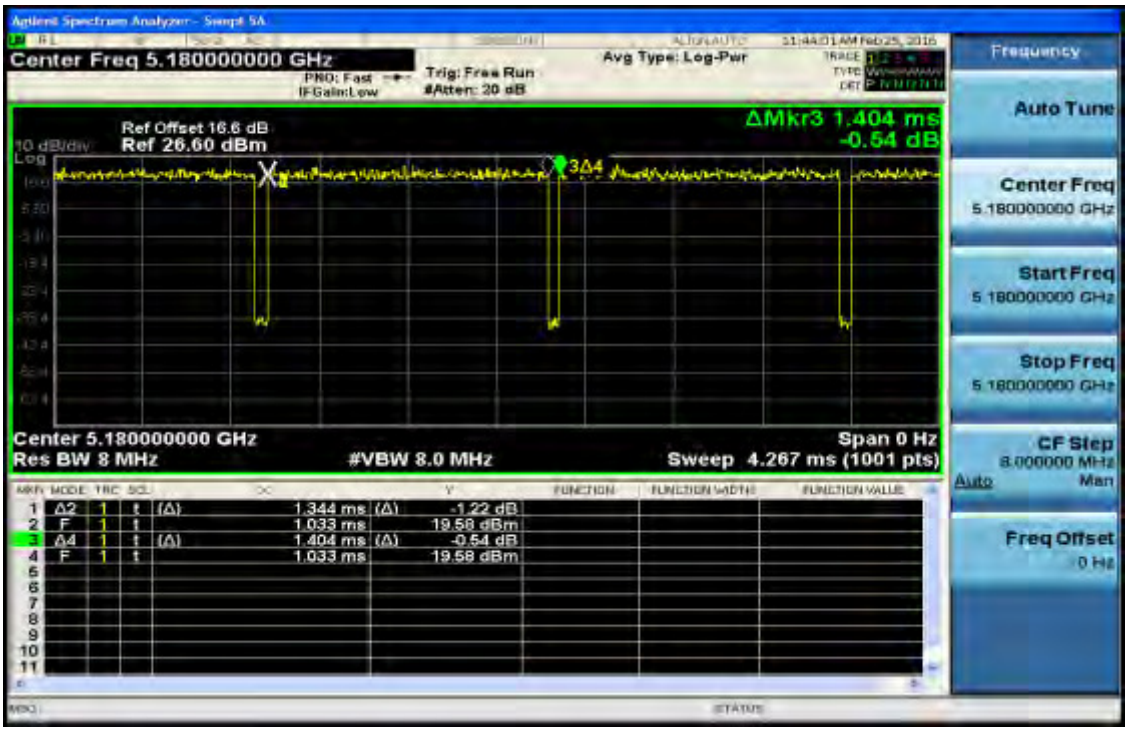
Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)
802.11a	95.74	0.19
802.11n_20	90.77	0.42
802.11n_40	83.83	0.77
802.11ac_80	51.45	2.89

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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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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

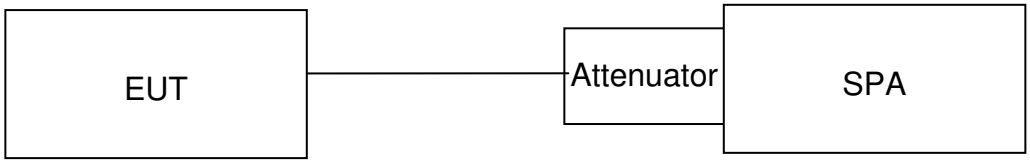
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
   a. 26dB Band width Measurement: Set 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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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016

8.4 Test Set-up



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8.5 Measurement Result
26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	21.13	13.250
5220	21.27	13.278
5240	21.48	13.320
5260	22.08	13.440
5300	20.97	13.215
5320	21.07	13.237
5500	21.97	13.419
5580	21.85	13.394
5700	21.69	13.362

802.11a_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	21.24	13.272
5220	20.25	13.064
5240	21.23	13.270
5260	20.92	13.206
5300	20.77	13.174
5320	20.37	13.090
5500	21.07	13.237
5580	21.12	13.246
5700	20.83	13.187

802.11a_Aux2

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	22.04	13.431
5220	21.26	13.275
5240	21.34	13.292
5260	21.20	13.263
5300	22.49	13.521
5320	21.29	13.282
5500	21.73	13.370
5580	21.62	13.349
5700	21.30	13.285

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802.11n_HT20_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	21.41	13.307
5220	21.32	13.288
5240	21.23	13.269
5260	21.33	13.289
5300	21.06	13.234
5320	21.82	13.389
5500	20.73	13.165
5580	21.54	13.333
5700	20.97	13.217

802.11n_HT20_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	22.12	13.448
5220	21.28	13.280
5240	22.53	13.527
5260	21.84	13.392
5300	21.61	13.346
5320	22.29	13.481
5500	22.13	13.451
5580	21.71	13.367
5700	21.61	13.347

802.11n_HT20_Aux2

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	22.29	13.480
5220	21.87	13.397
5240	21.56	13.336
5260	21.84	13.393
5300	21.71	13.366
5320	22.14	13.453
5500	21.94	13.412
5580	21.95	13.414
5700	21.60	13.345

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802.11n _HT40_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	42.52	16.286
5230	43.51	16.386
5270	43.10	16.345
5310	43.28	16.363
5510	43.07	16.342
5550	41.81	16.212
5670	44.27	16.461

802.11n _HT40_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	44.19	16.453
5230	44.23	16.457
5270	43.18	16.353
5310	43.59	16.394
5510	44.42	16.475
5550	43.91	16.426
5670	42.71	16.305

802.11n _HT40_Aux2

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	42.08	16.241
5230	42.43	16.276
5270	42.43	16.277
5310	43.12	16.347
5510	43.03	16.337
5550	42.84	16.318
5670	43.31	16.366

802.11ac _VHT80_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	90.22	19.553
5290	92.22	19.648
5530	93.08	19.688
5610	90.51	19.567

802.11ac _VHT80_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	88.42	19.465
5290	89.15	19.501
5530	91.11	19.596
5610	92.05	19.640

802.11ac _VHT80_Aux2

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	85.34	19.311
5290	87.58	19.424
5530	87.88	19.439
5160	86.71	19.381

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

802.11a_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.11	12.071
5785	16.34	12.133
5825	15.70	11.960

802.11a_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.32	12.127
5785	15.92	12.019
5825	15.75	11.972

802.11a_Aux2

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.35	12.134
5785	16.33	12.129
5825	15.75	11.972

802.11n_HT20_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.61	12.457
5785	17.62	12.461
5825	17.60	12.455

802.11n_HT20_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.59	12.452
5785	17.03	12.312
5825	16.96	12.294

802.11n_HT20_Aux2

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.18	12.349
5785	17.57	12.448
5825	16.70	12.227

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802.11n_HT40_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.54	15.507
5795	35.67	15.523

802.11n_HT40_Aux1

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	36.38	15.608
5795	36.39	15.610

802.11n_HT40_Aux2

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

802.11ac _VHT80_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	75.23	18.764

802.11ac _VHT80_Aux1

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

802.11ac _VHT80_Aux2

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	76.24	18.822

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



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



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



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



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



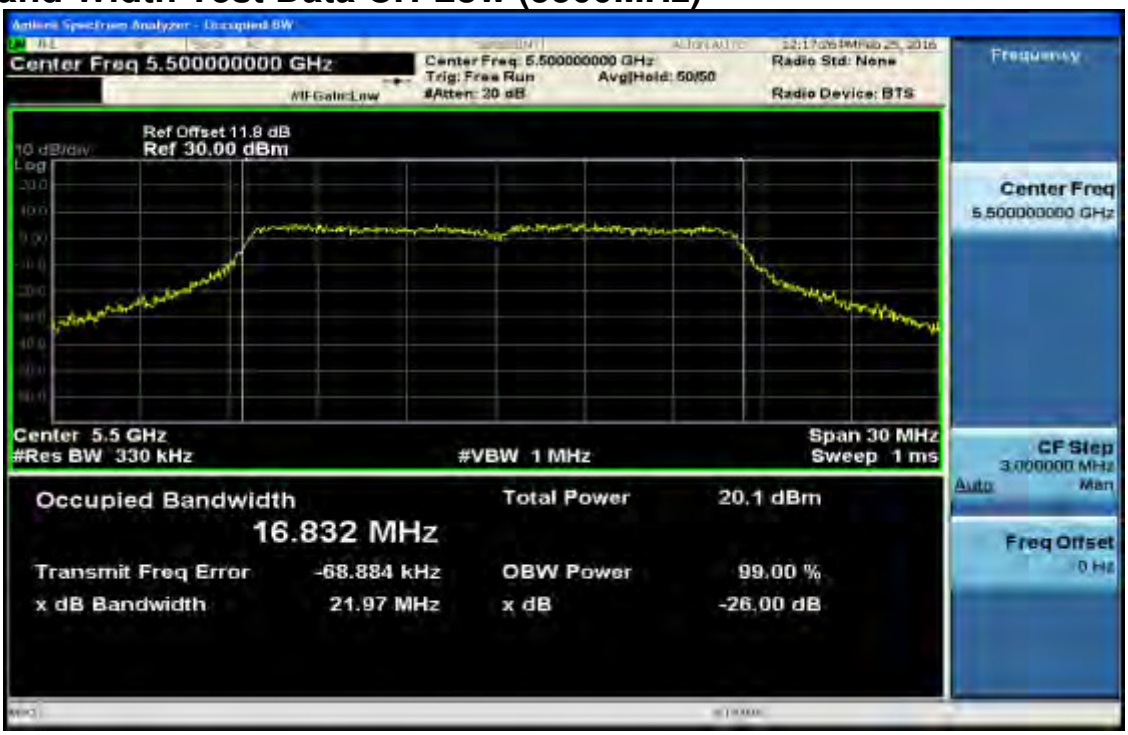
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26dB Band Width Test Data CH-High (5320MHz)



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



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

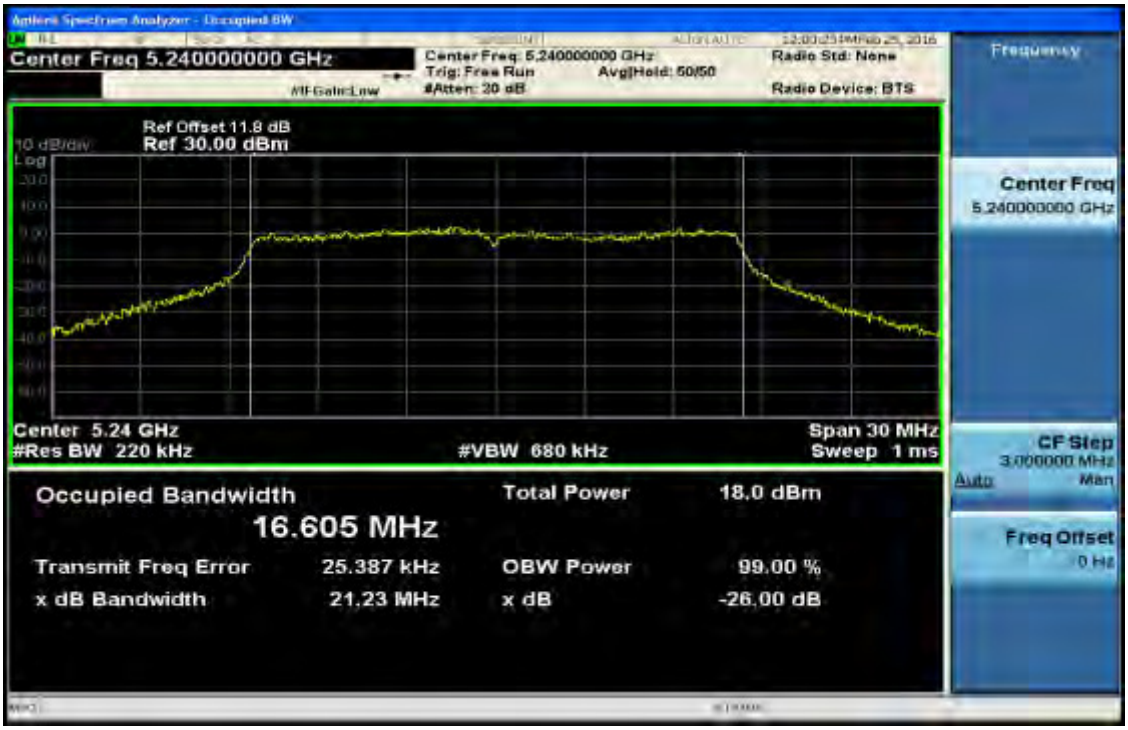


26dB Band Width Test Data CH-Mid (5220MHz)



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



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



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



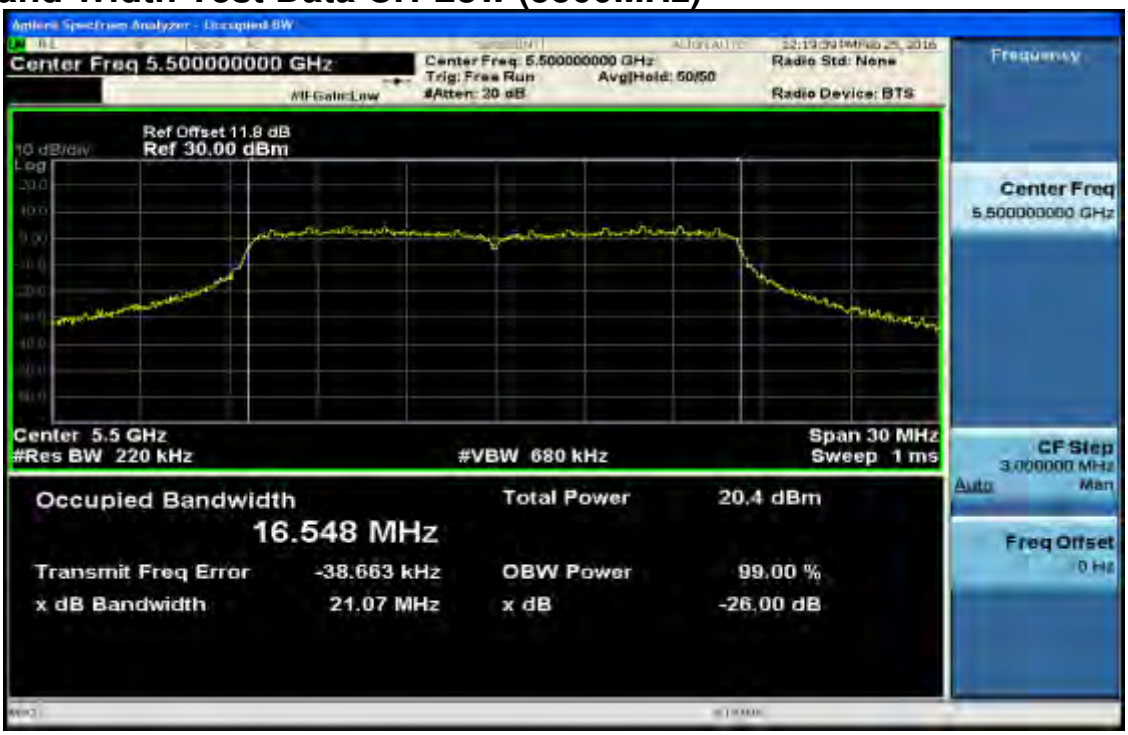
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26dB Band Width Test Data CH-High (5320MHz)

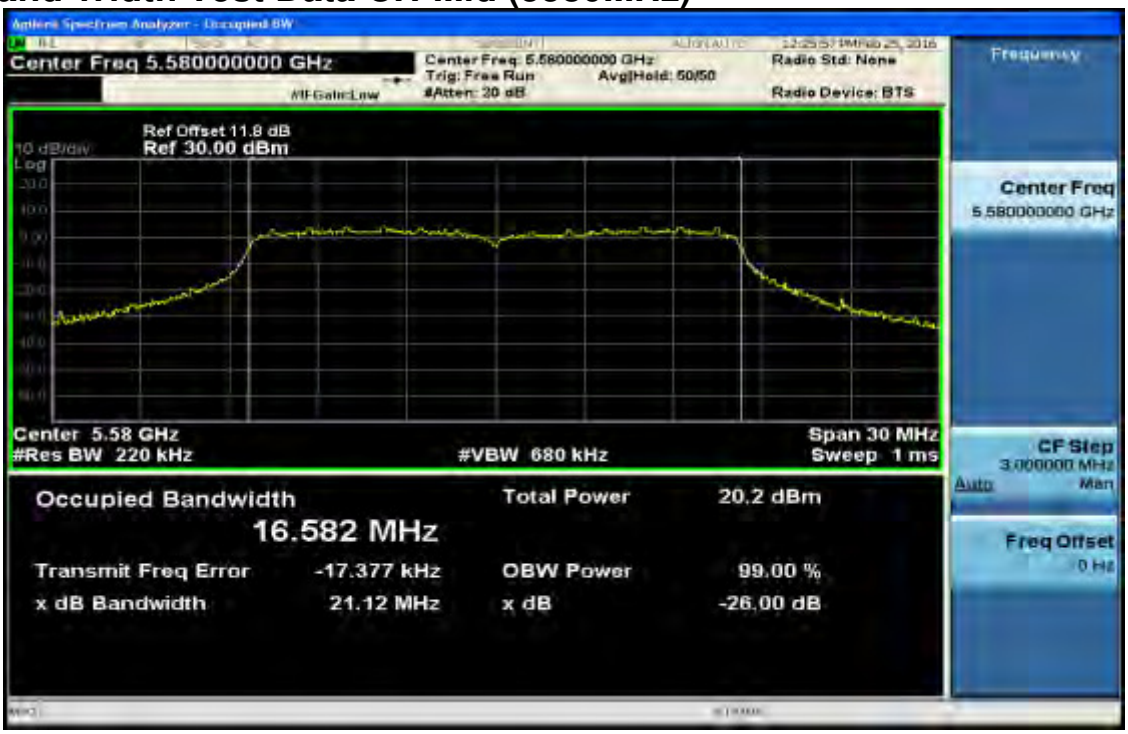


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802.11a, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5500MHz)



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



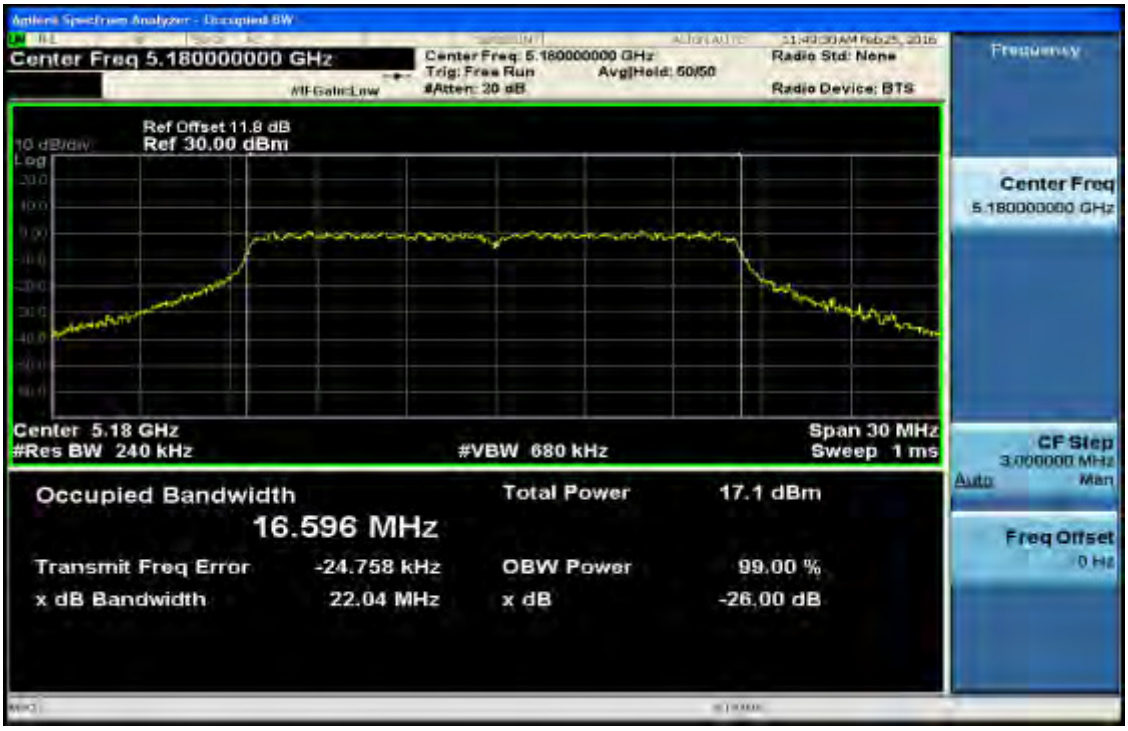
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26dB Band Width Test Data CH-High (5700MHz)



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



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



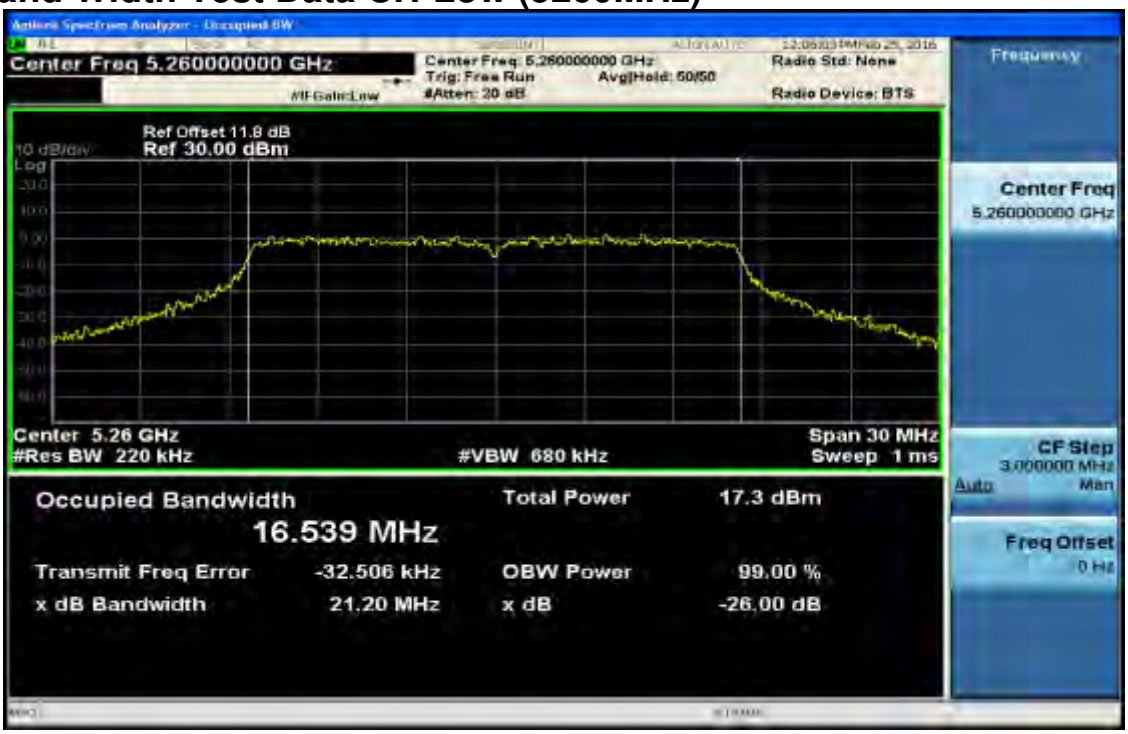
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26dB Band Width Test Data CH-High (5240MHz)



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802.11a, 5250~5350 MHz (Aux2)
26dB Band Width Test Data CH-Low (5260MHz)



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



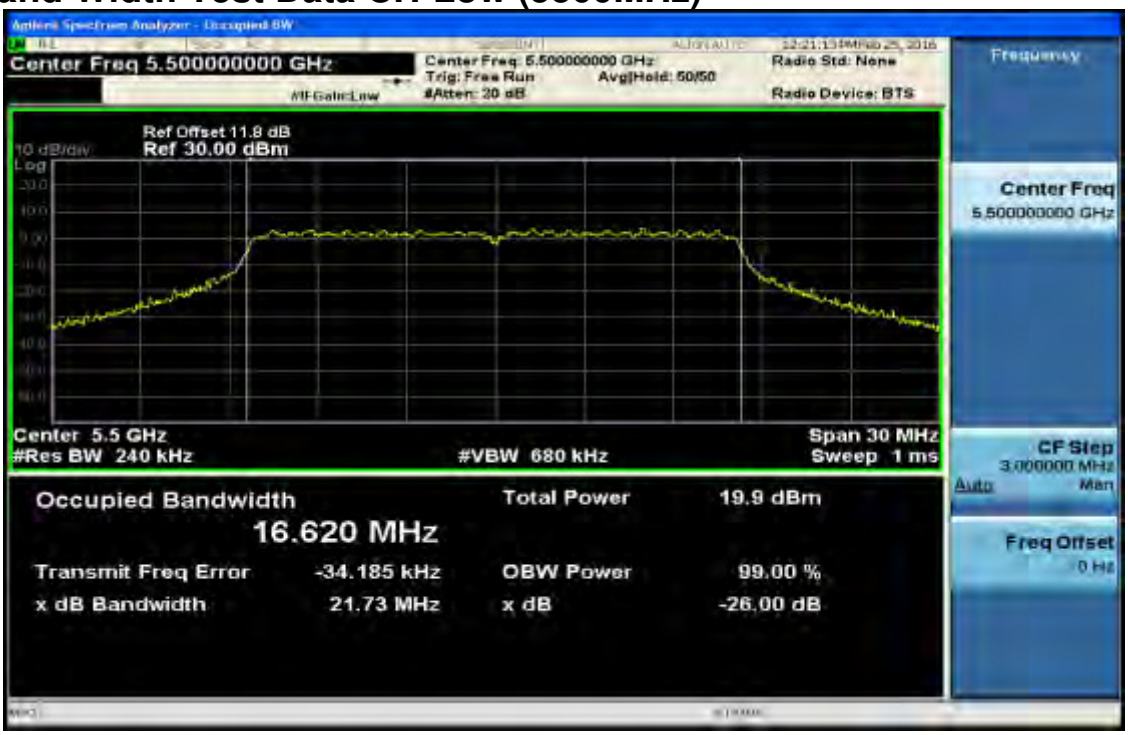
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26dB Band Width Test Data CH-High (5320MHz)

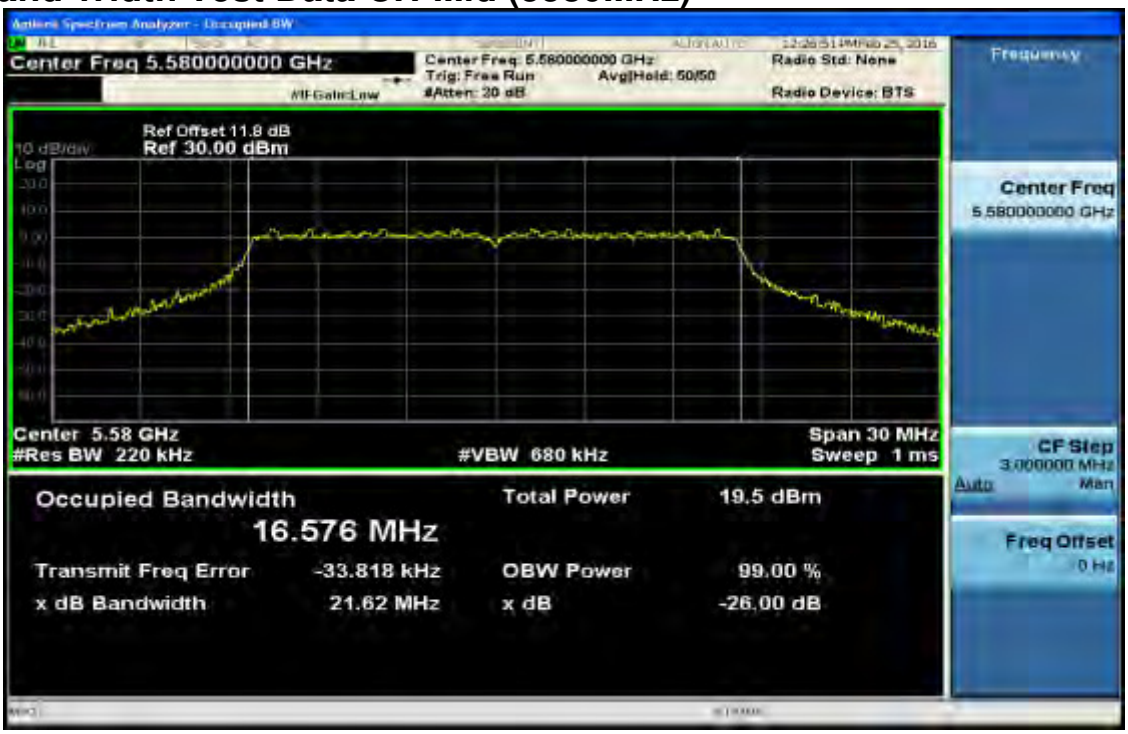


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802.11a, 5470~5725 MHz (Aux2)
26dB Band Width Test Data CH-Low (5500MHz)

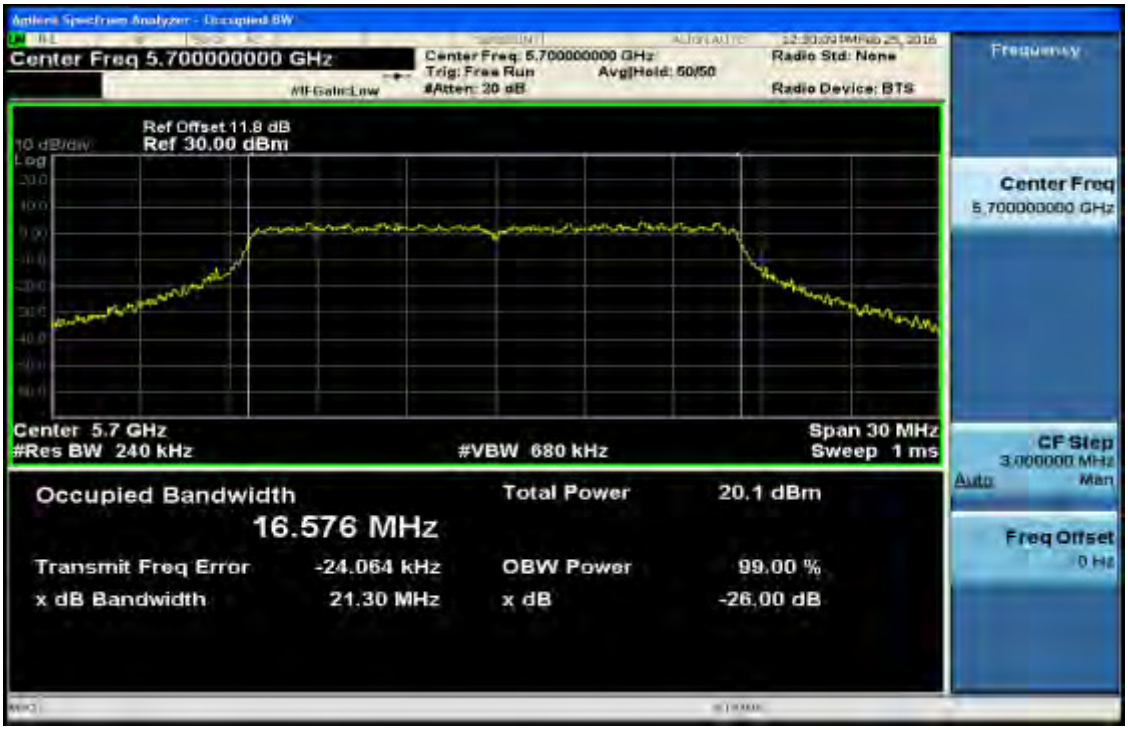


26dB Band Width Test Data CH-Mid (5580MHz)



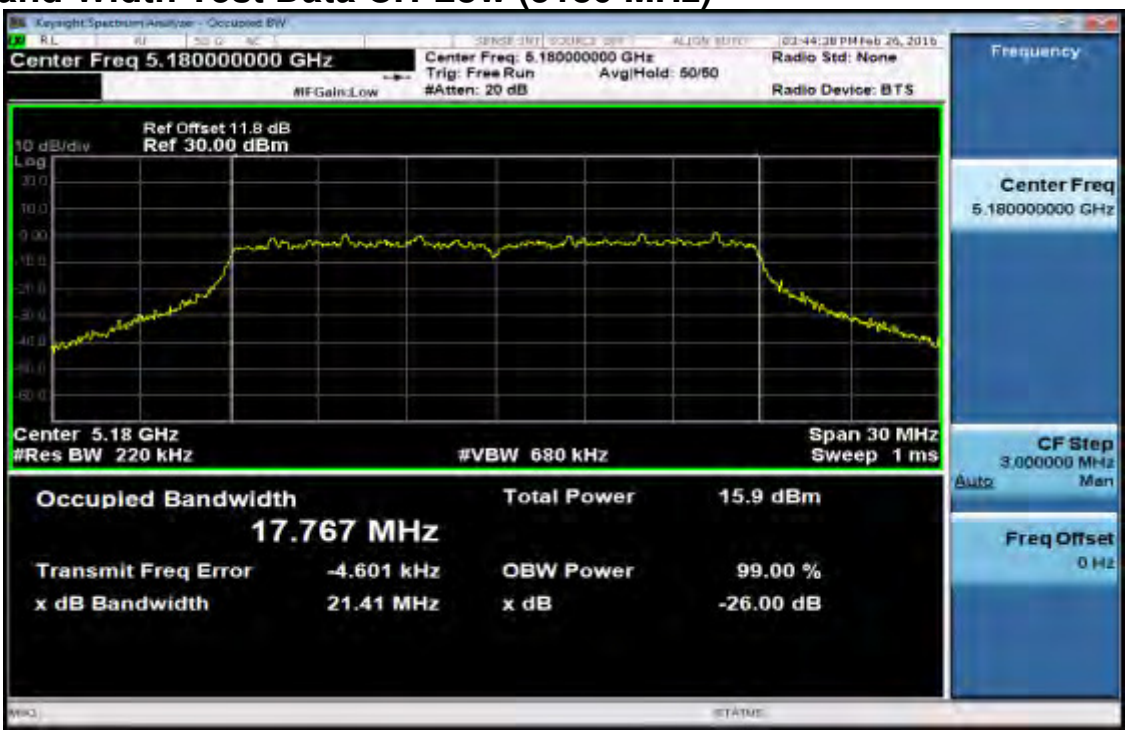
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26dB Band Width Test Data CH-High (5700MHz)

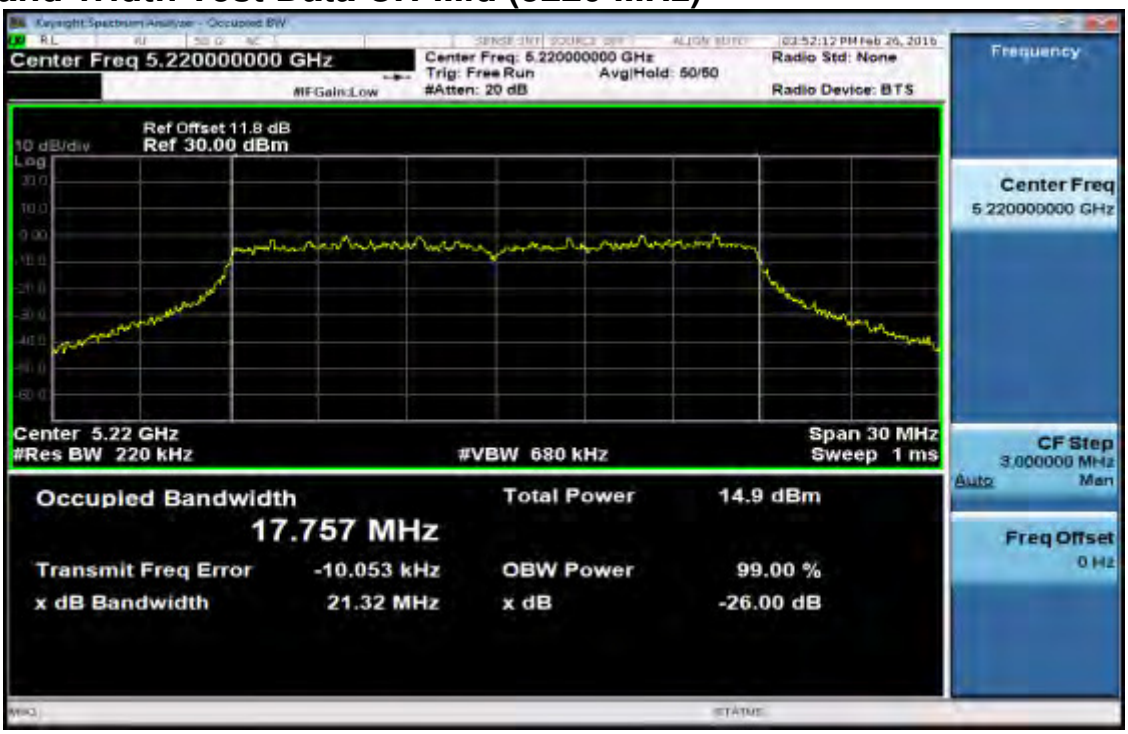


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802.11n HT20, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5180 MHz)

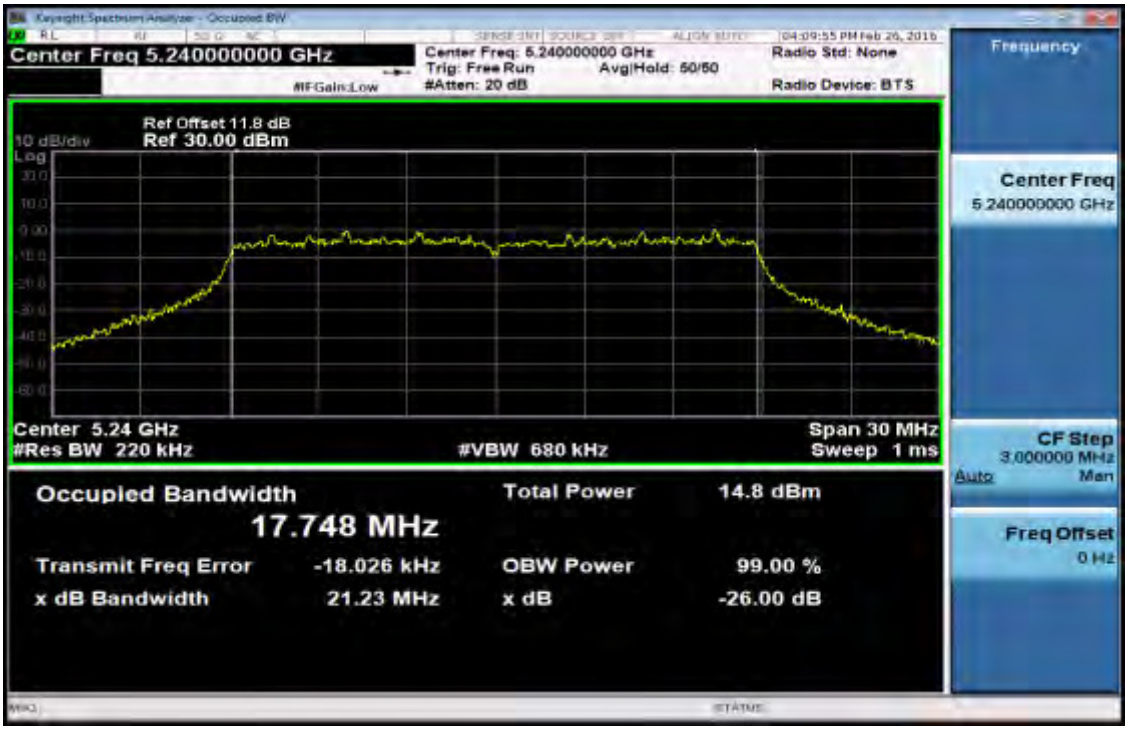


26dB Band Width Test Data CH-Mid (5220 MHz)



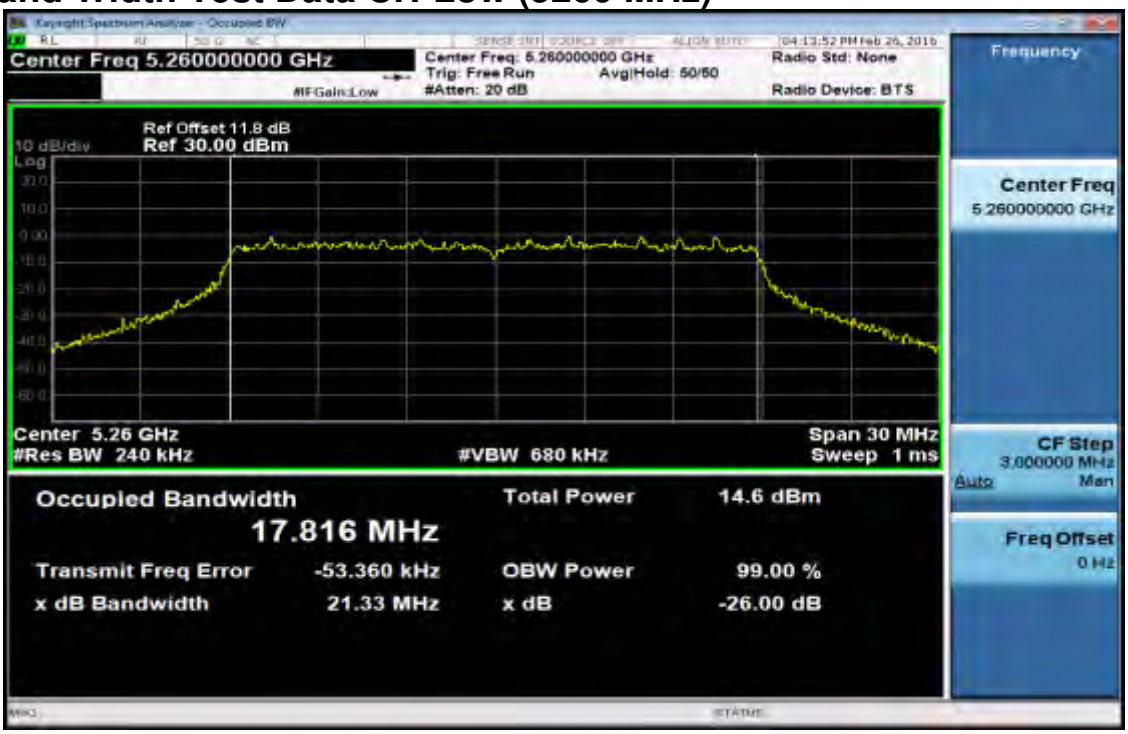
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26dB Band Width Test Data CH-High (5240 MHz)

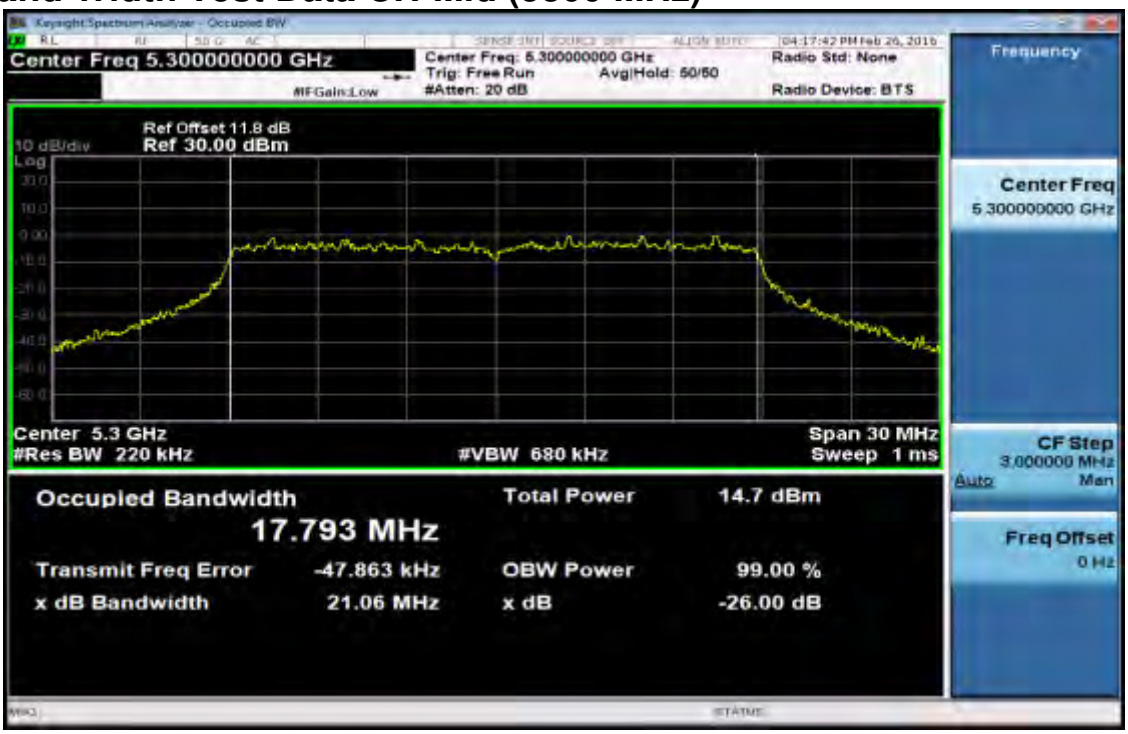


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802.11n HT20, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5260 MHz)

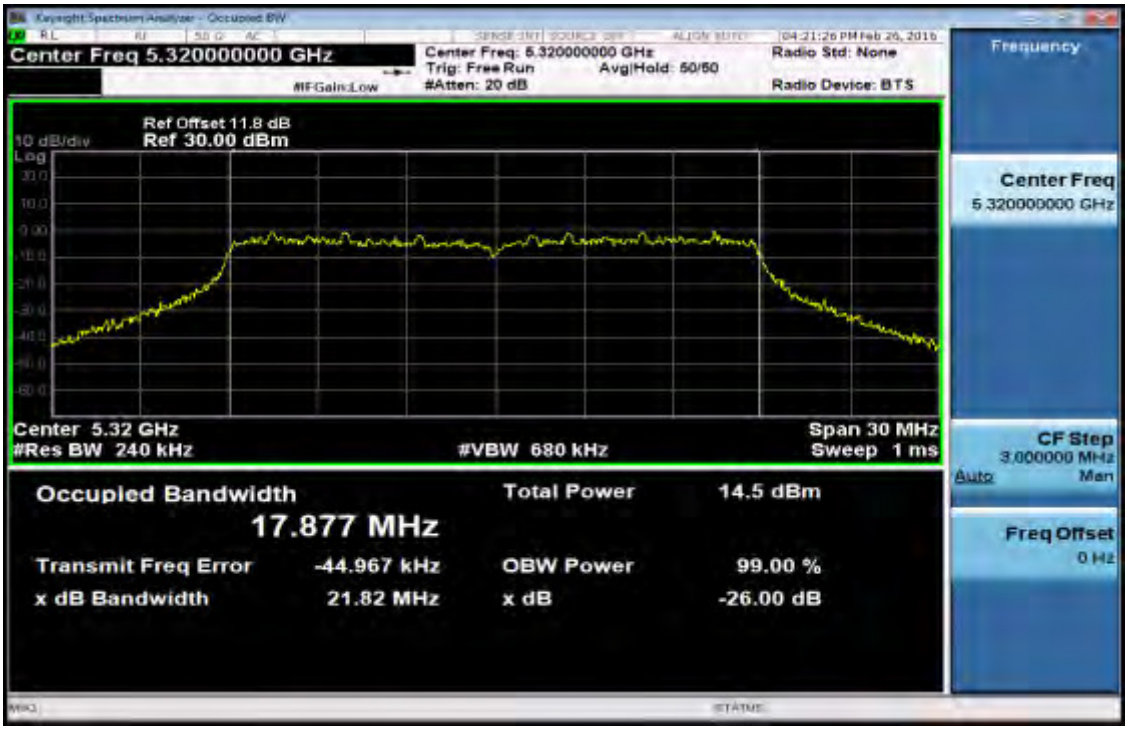


26dB Band Width Test Data CH-Mid (5300 MHz)



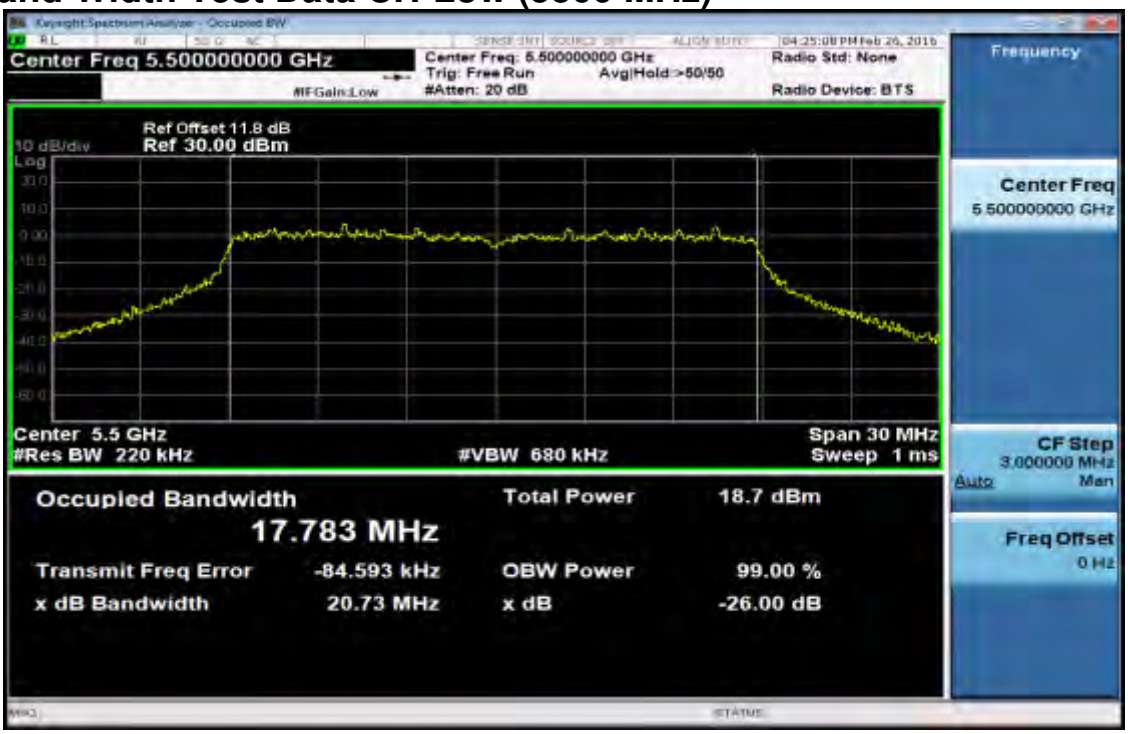
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26dB Band Width Test Data CH-High (5320 MHz)

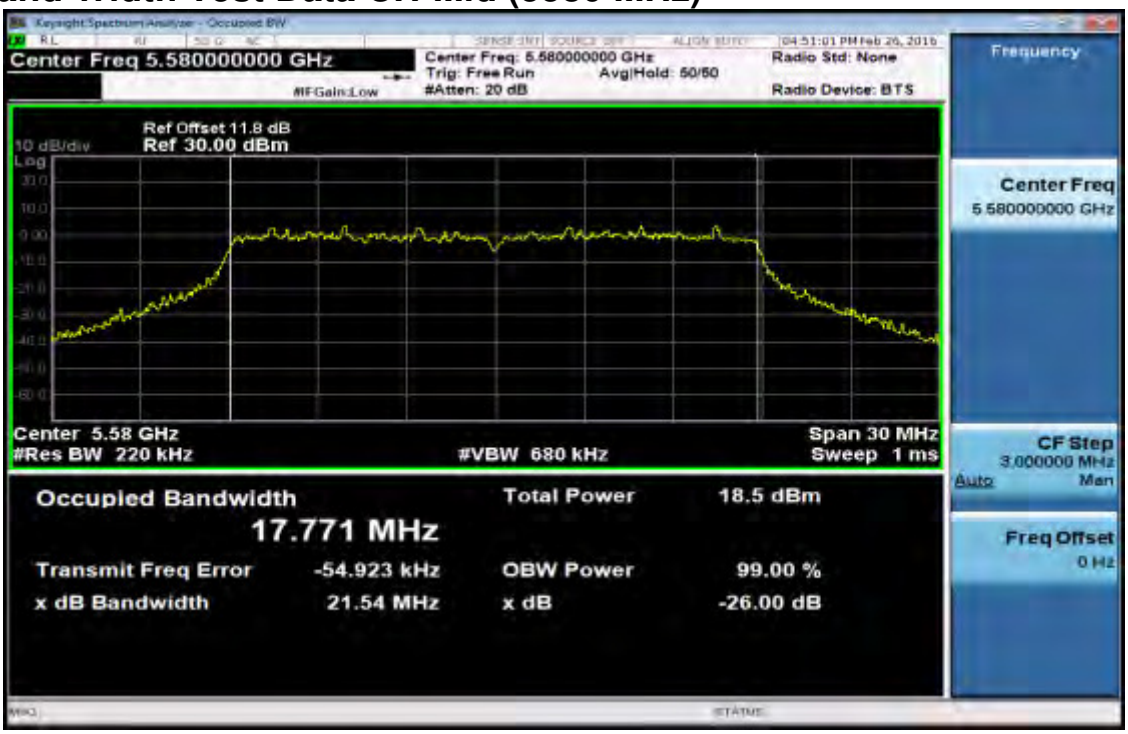


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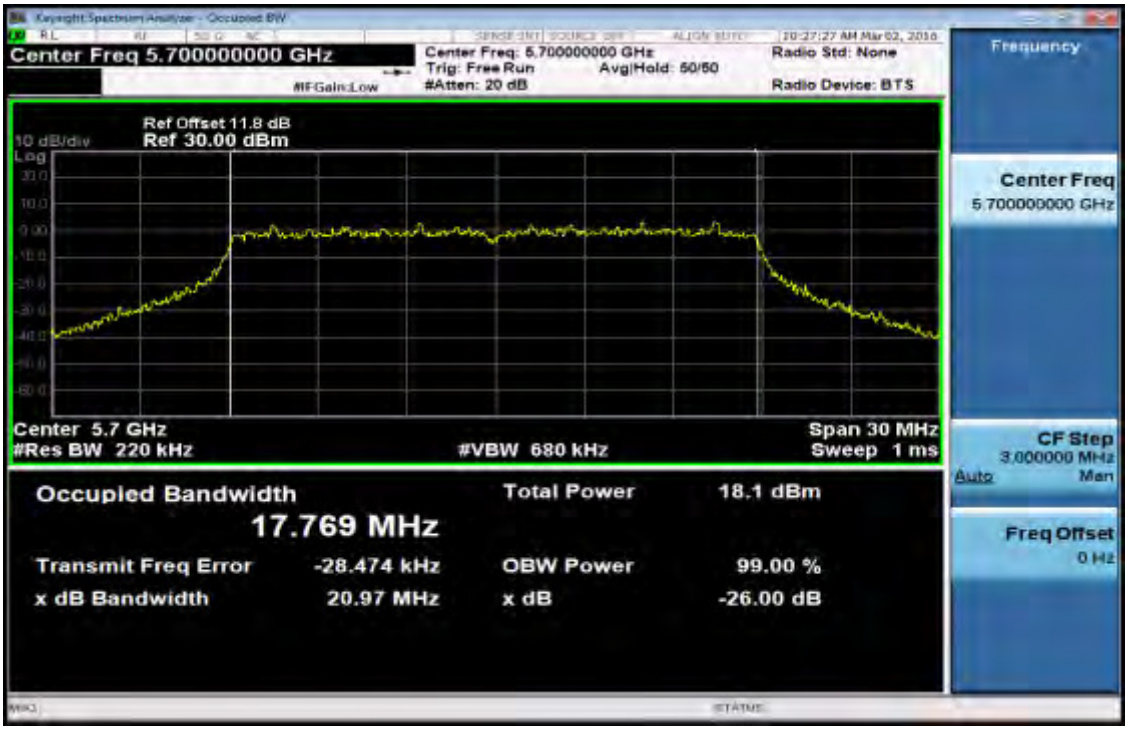


26dB Band Width Test Data CH-Mid (5580 MHz)



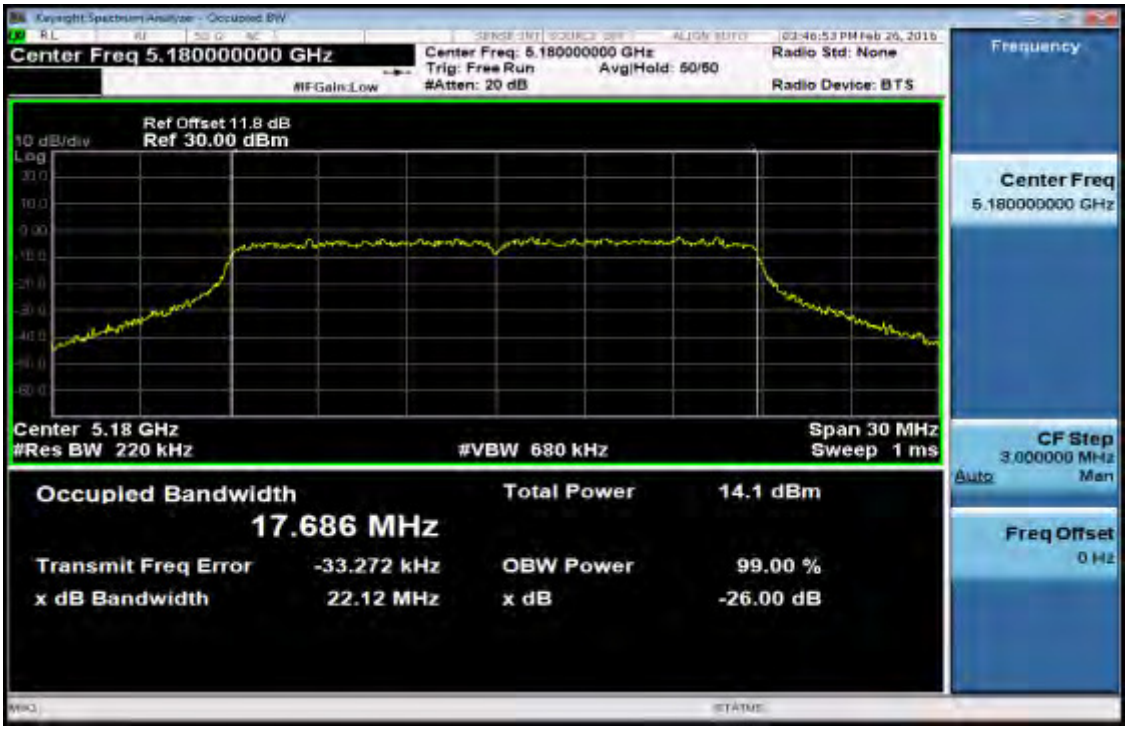
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26dB Band Width Test Data CH-High (5700 MHz)

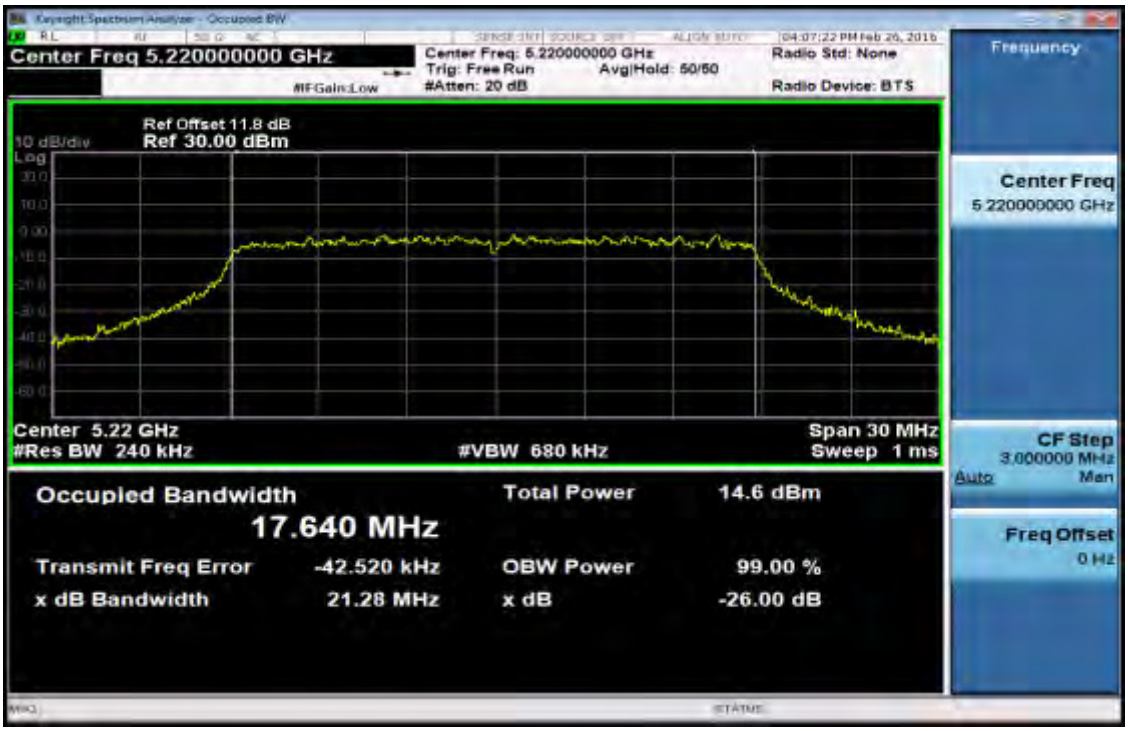


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802.11n HT20, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5180 MHz)

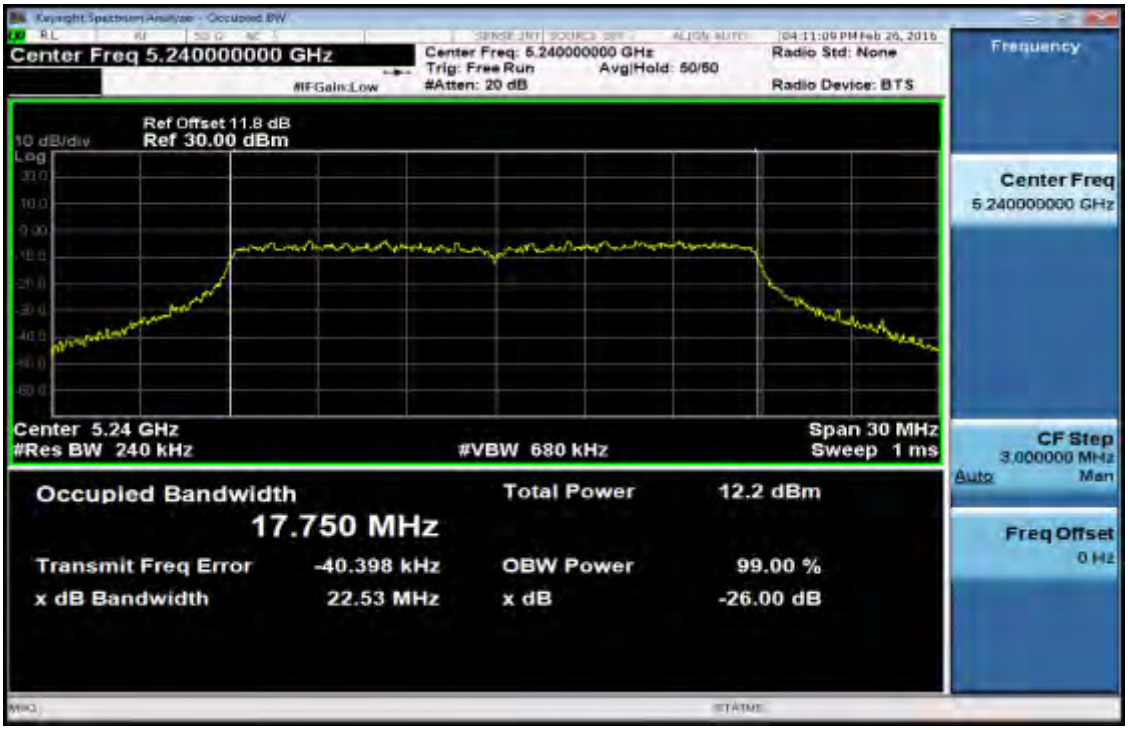


26dB Band Width Test Data CH-Mid (5220 MHz)



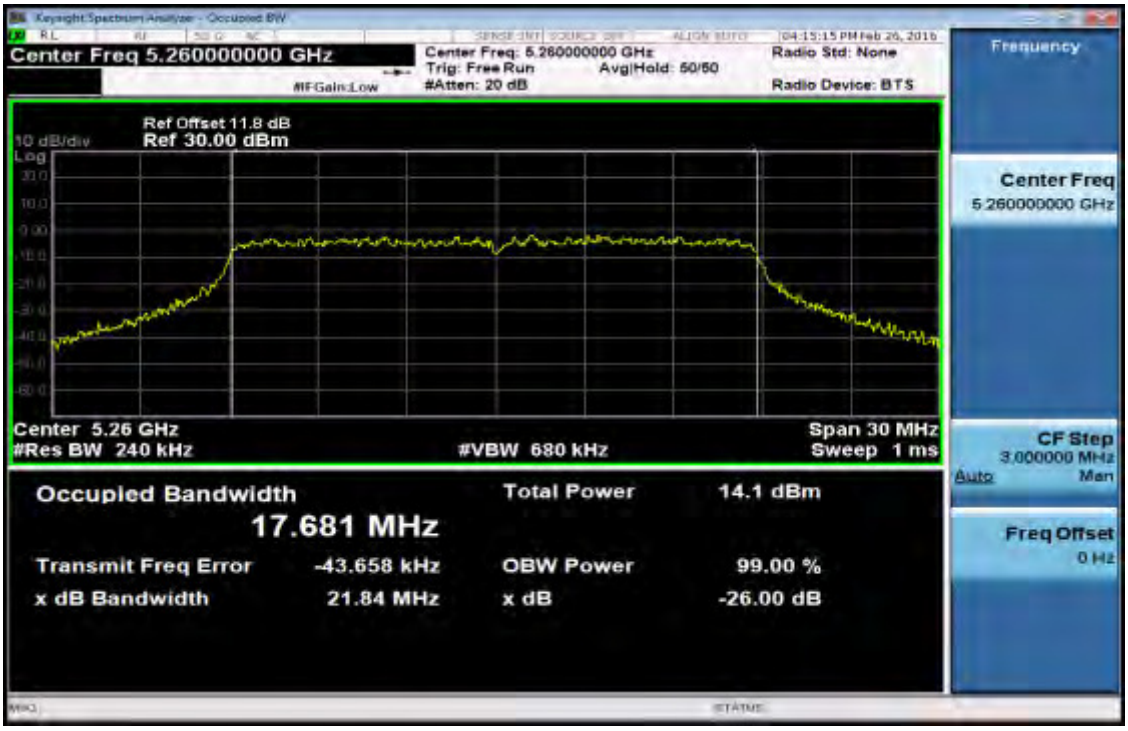
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26dB Band Width Test Data CH-High (5240 MHz)

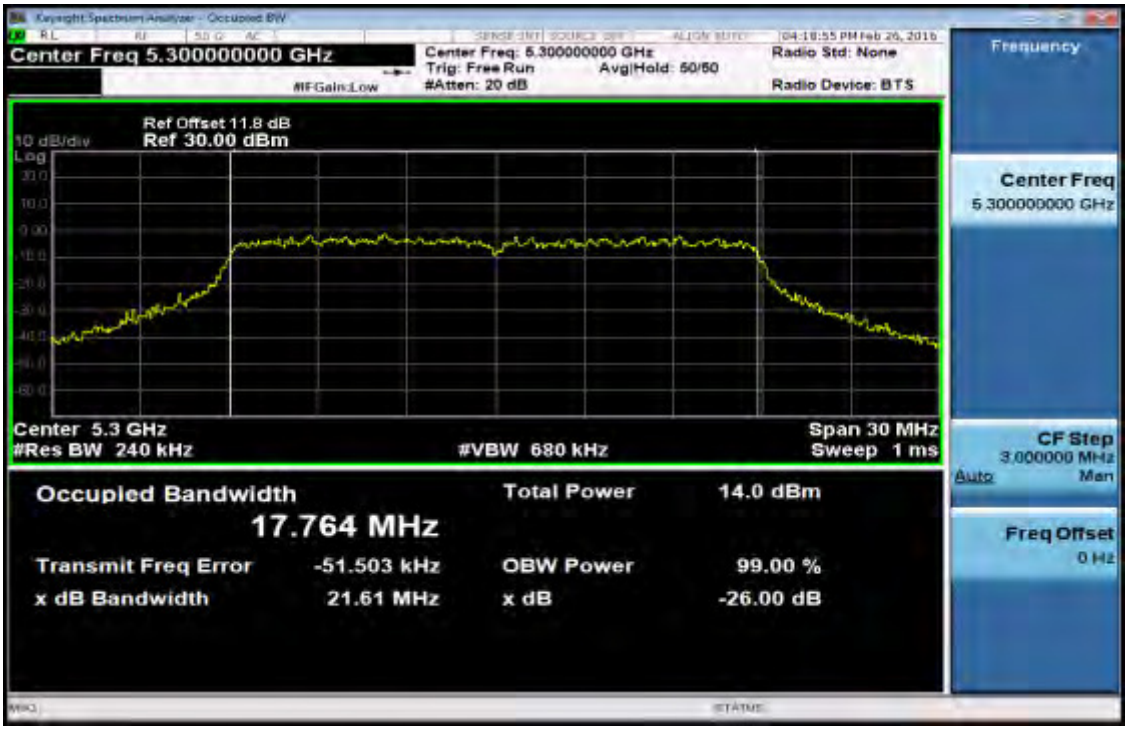


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802.11n HT20, 5250~5350 MHz (Aux1)
26dB Band Width Test Data CH-Low (5260 MHz)

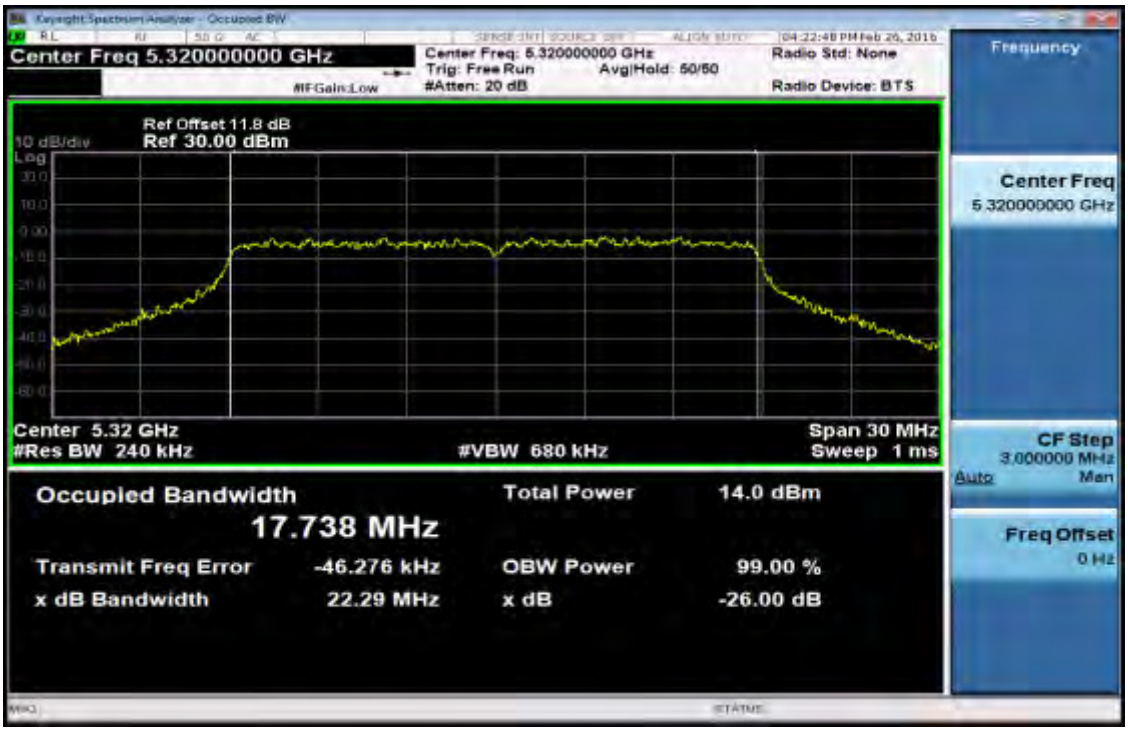


26dB Band Width Test Data CH-Mid (5300 MHz)



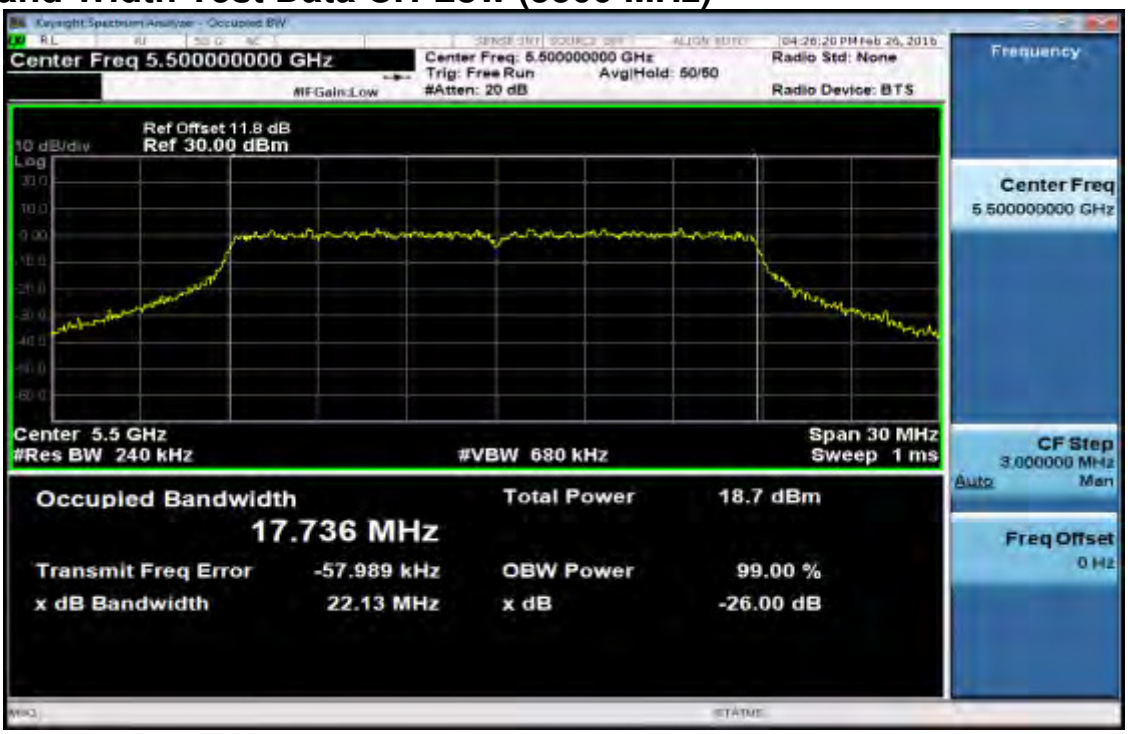
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26dB Band Width Test Data CH-High (5320 MHz)

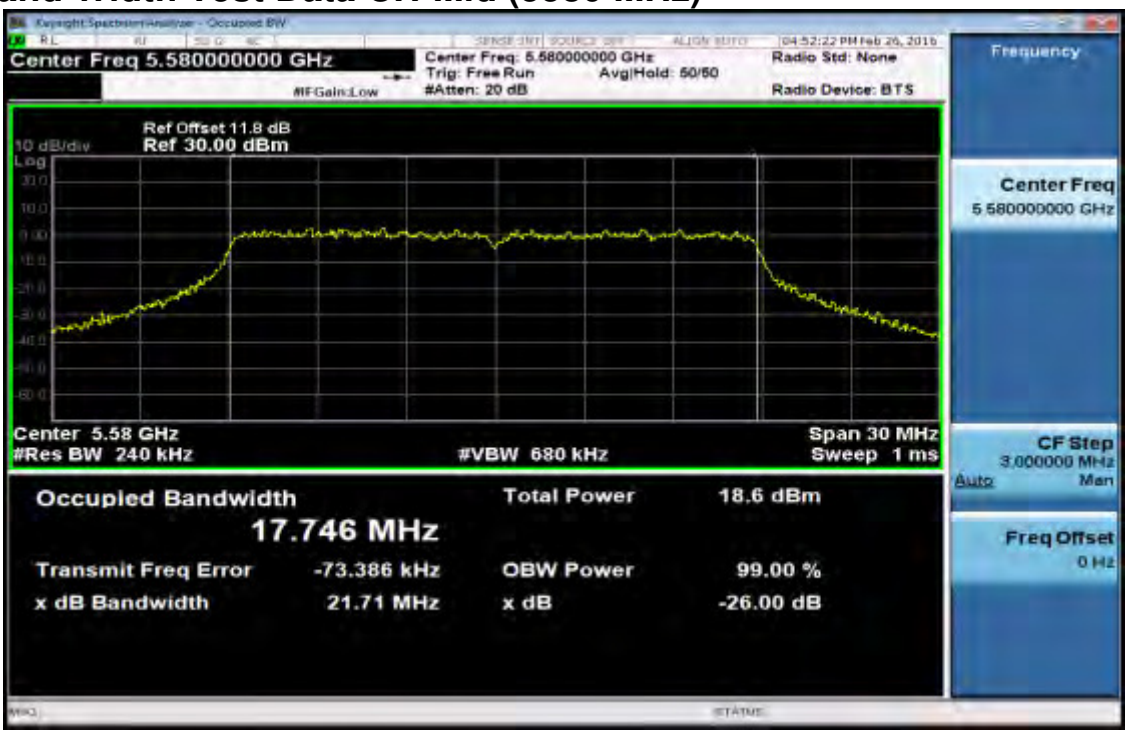


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802.11n HT20, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5500 MHz)

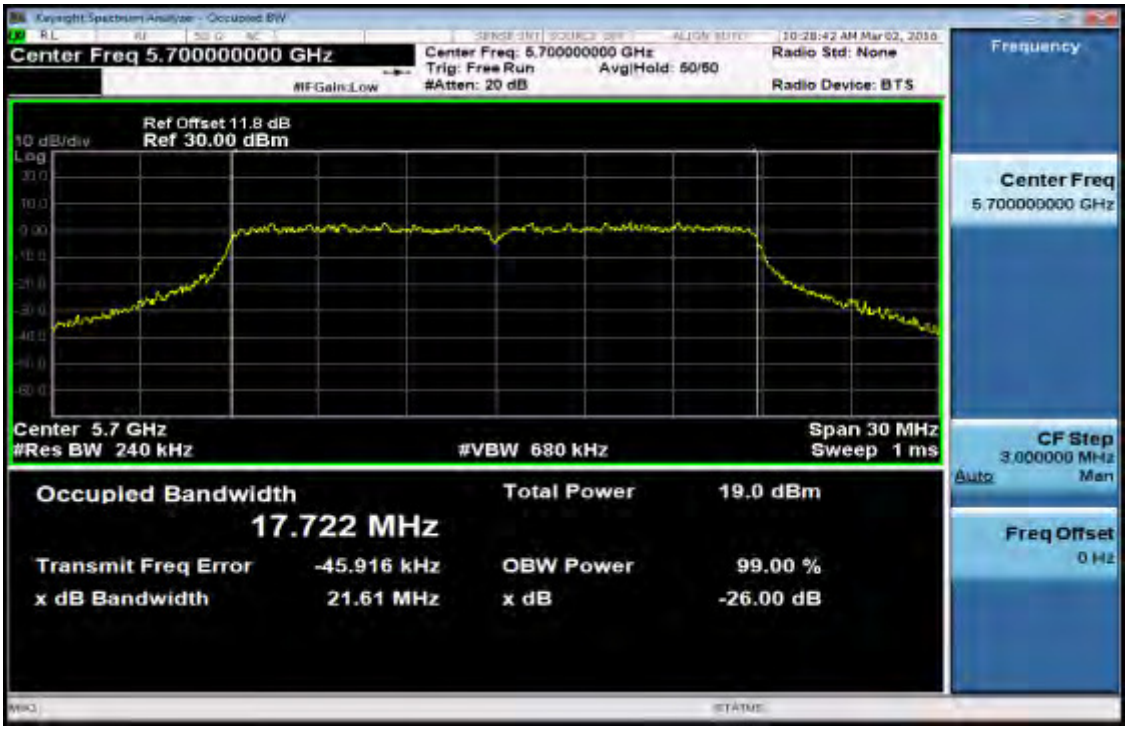


26dB Band Width Test Data CH-Mid (5580 MHz)



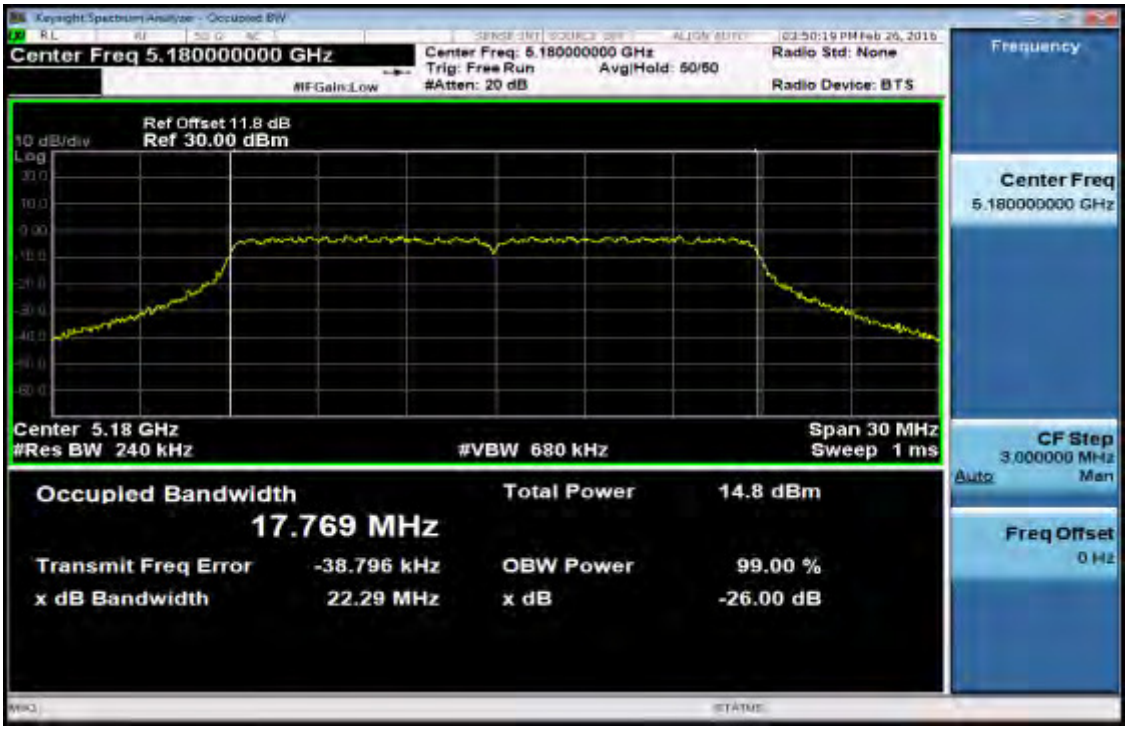
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26dB Band Width Test Data CH-High (5700 MHz)

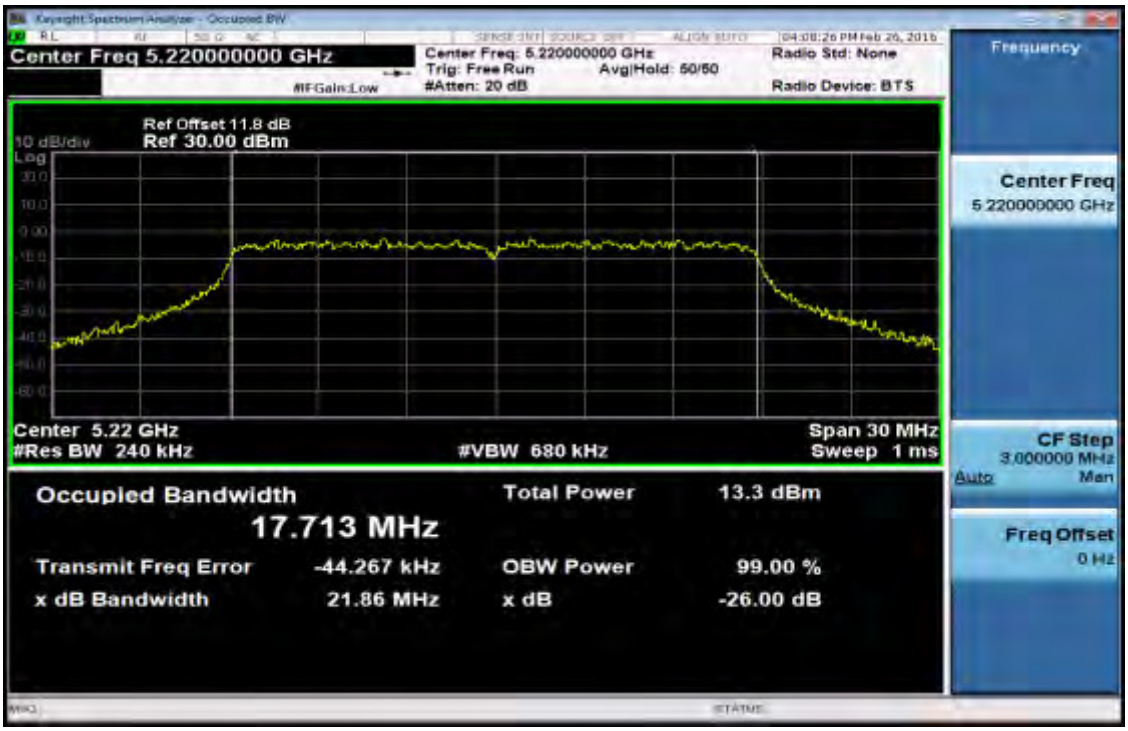


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802.11n HT20, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Low (5180 MHz)

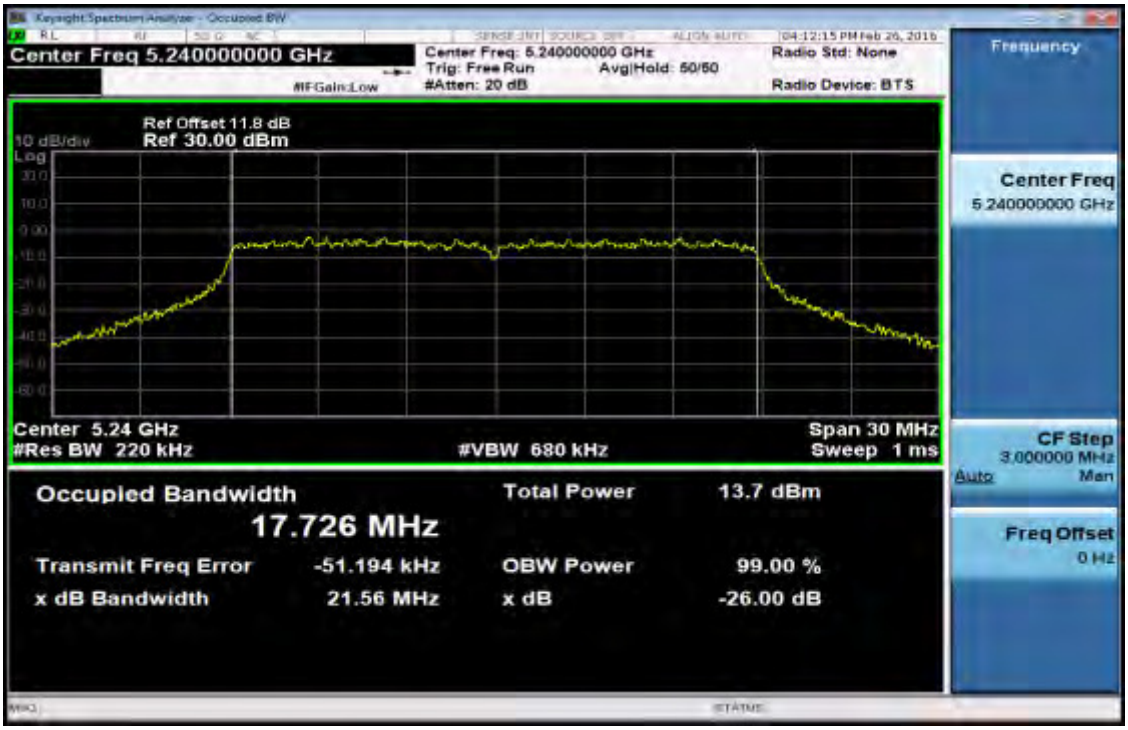


26dB Band Width Test Data CH-Mid (5220 MHz)



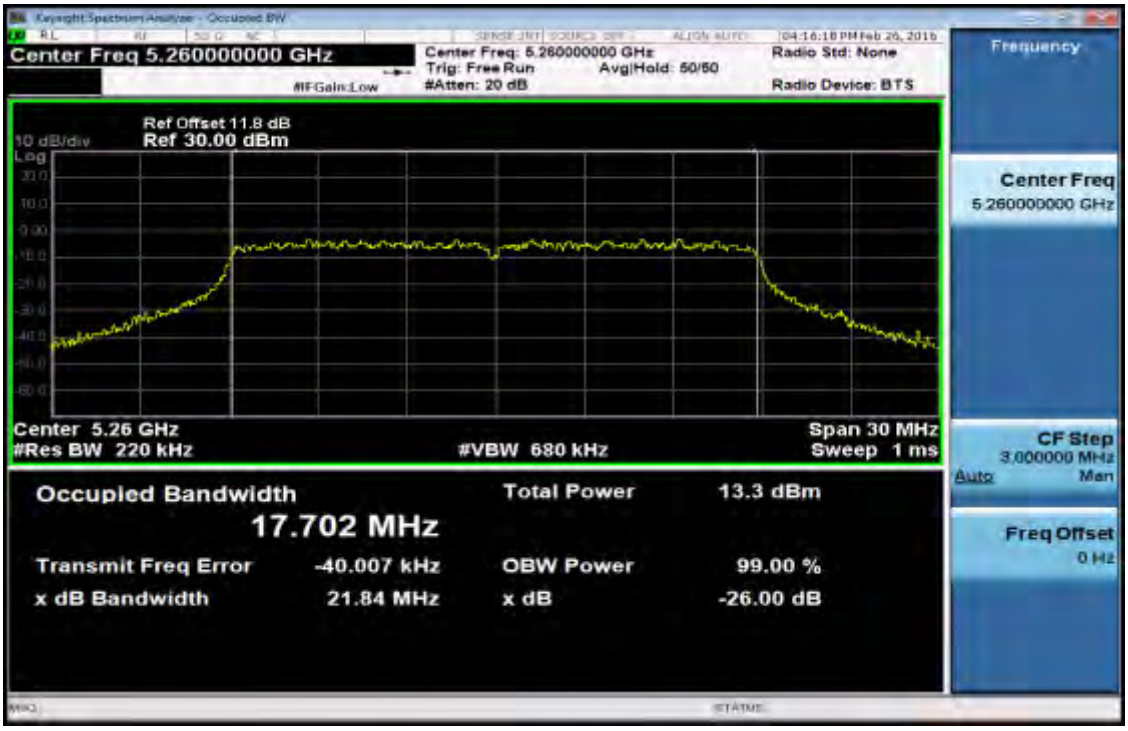
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26dB Band Width Test Data CH-High (5240 MHz)

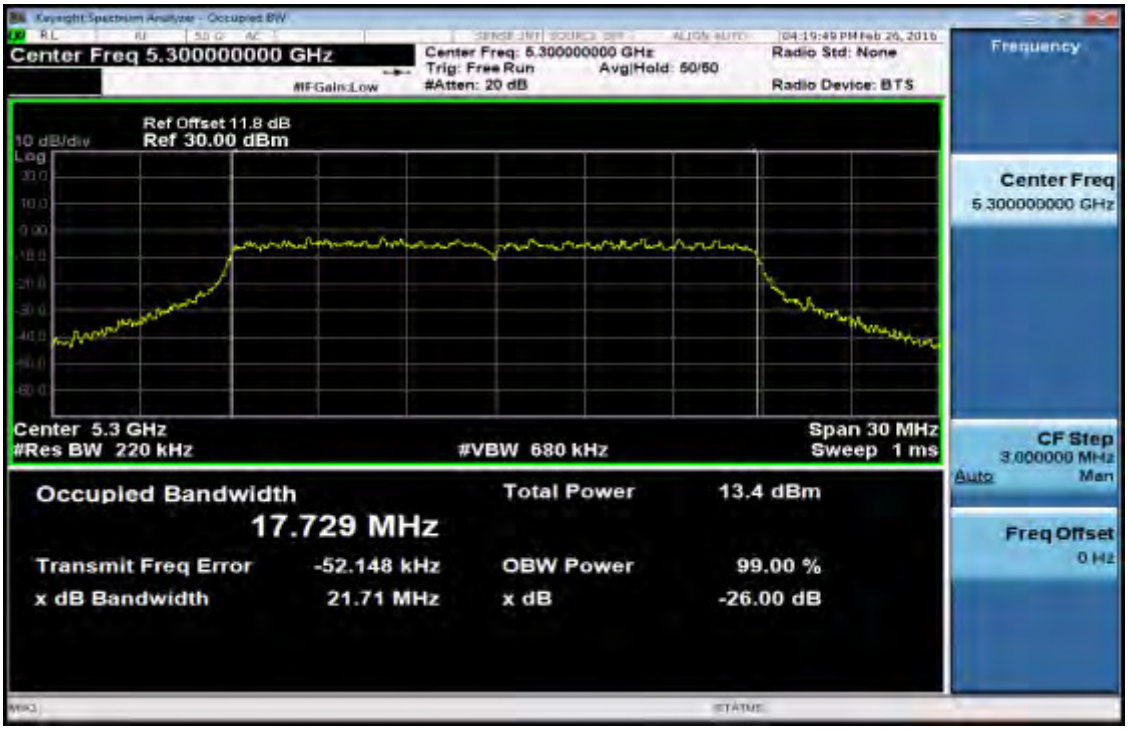


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802.11n HT20, 5250~5350 MHz (Aux2)
26dB Band Width Test Data CH-Low (5260 MHz)

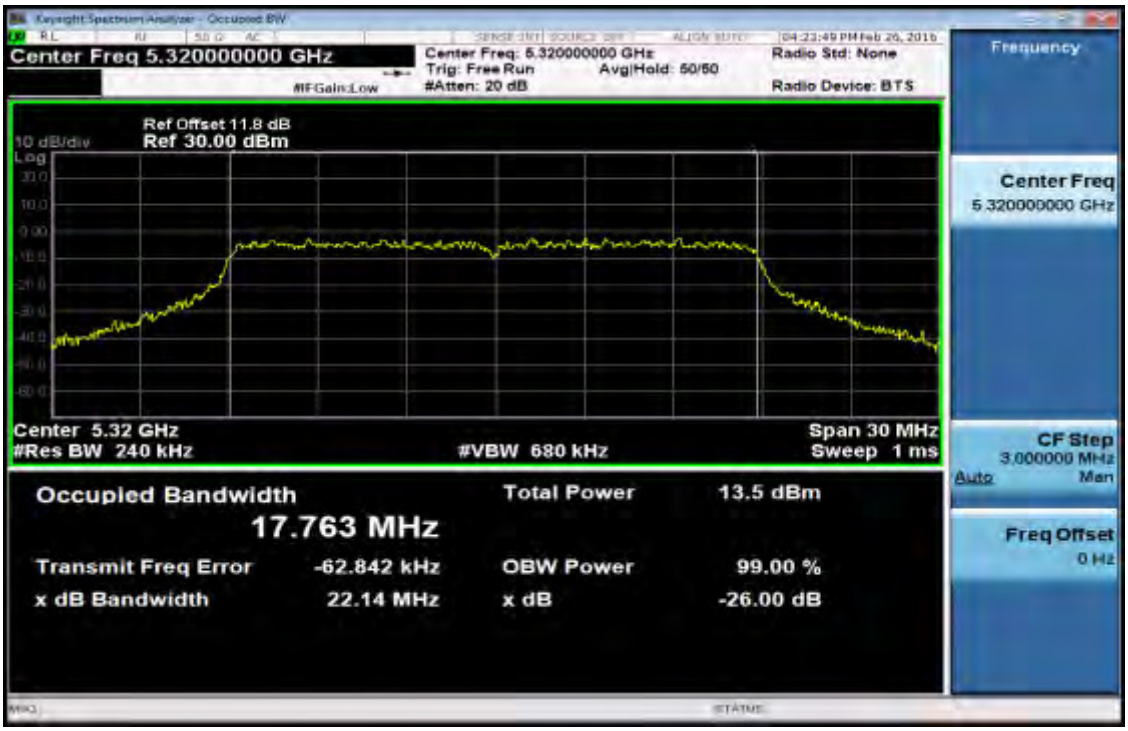


26dB Band Width Test Data CH-Mid (5300 MHz)



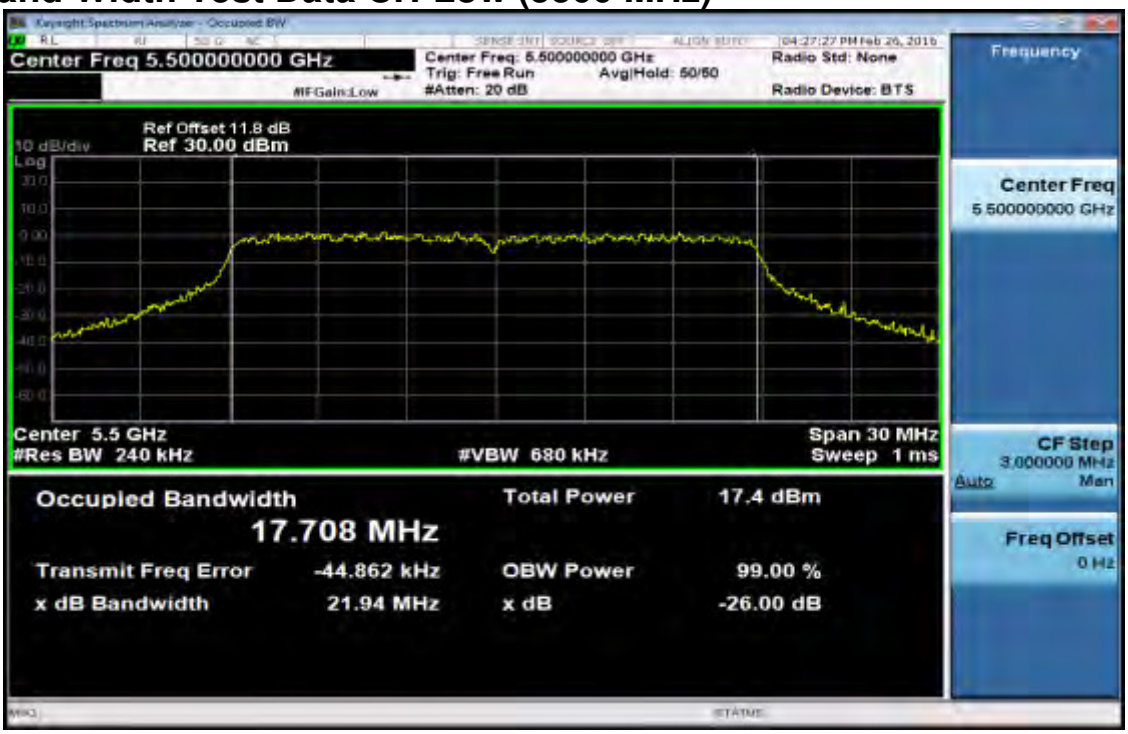
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26dB Band Width Test Data CH-High (5320 MHz)

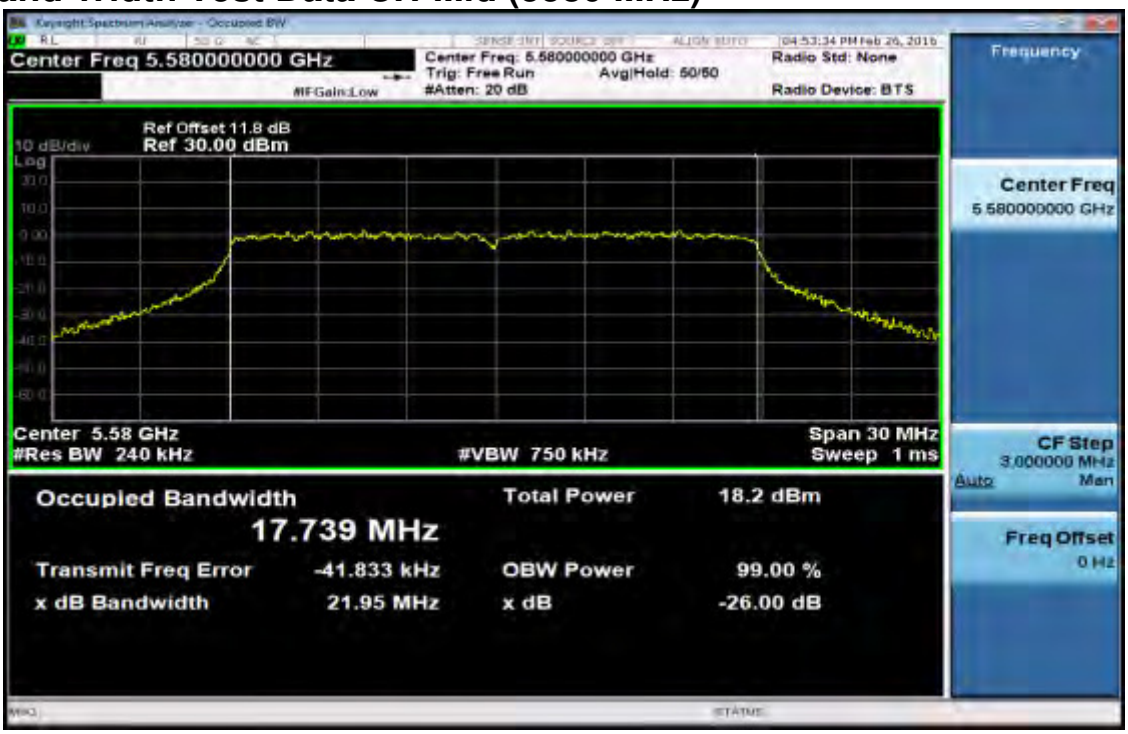


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802.11n HT20, 5470~5725 MHz (Aux2)
26dB Band Width Test Data CH-Low (5500 MHz)

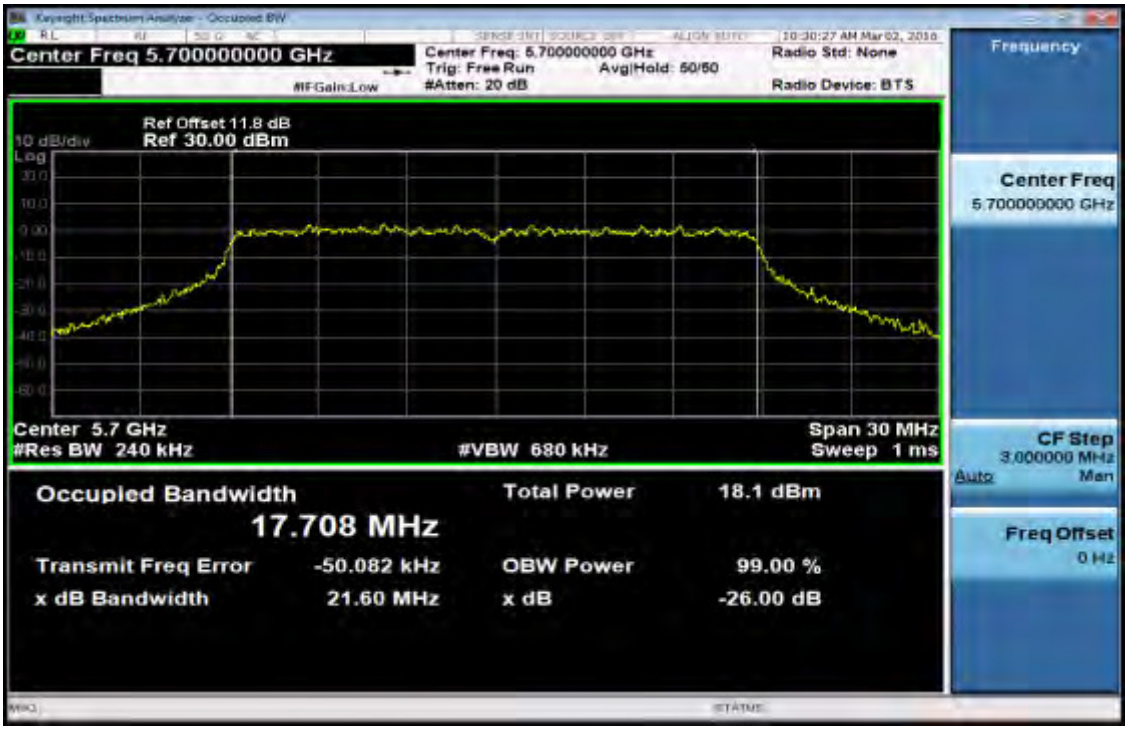


26dB Band Width Test Data CH-Mid (5580 MHz)



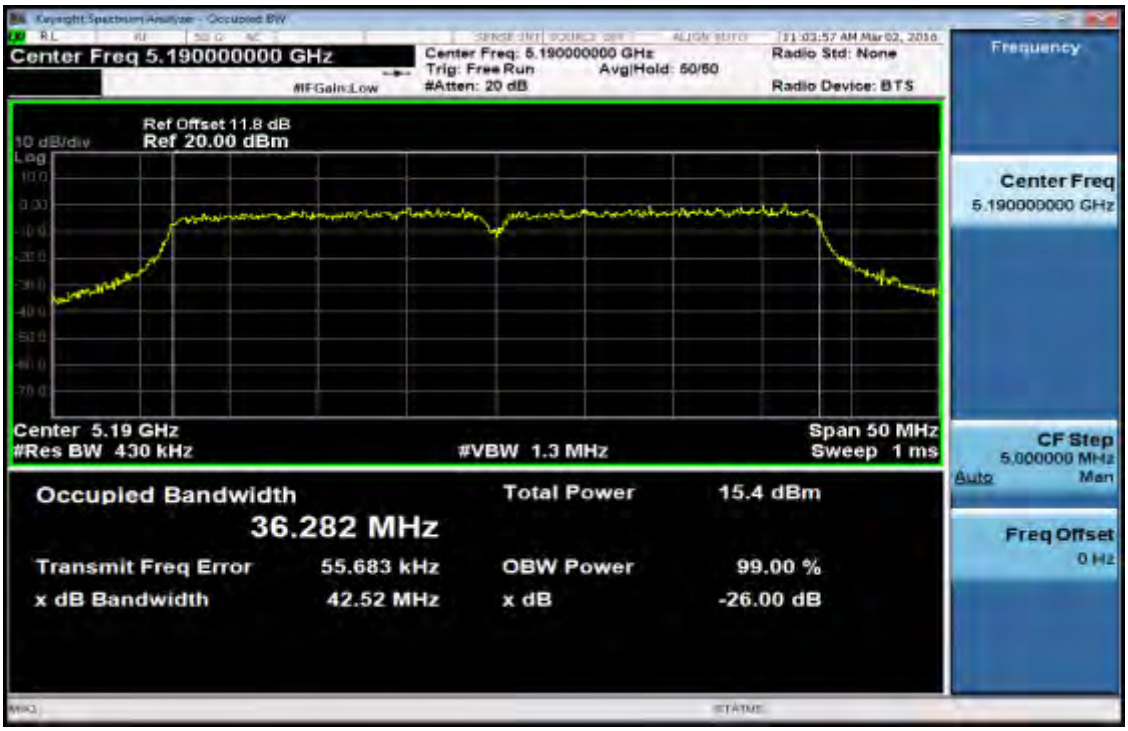
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26dB Band Width Test Data CH-High (5700 MHz)

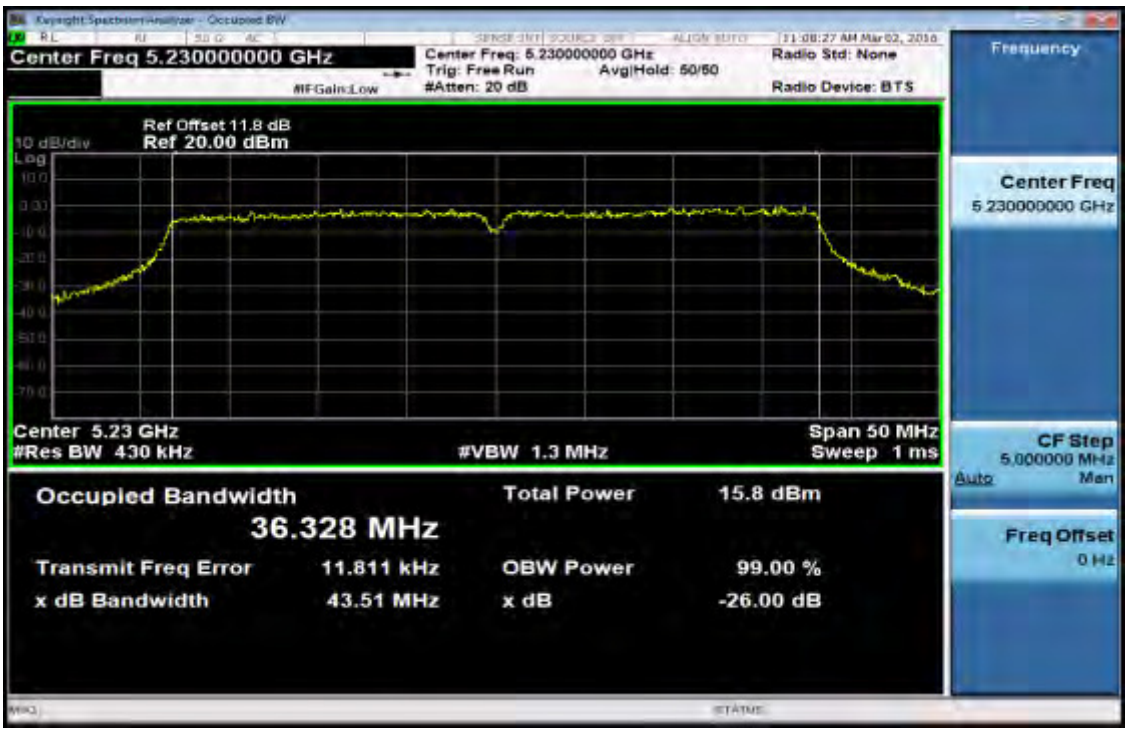


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802.11n HT40, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5190 MHz)

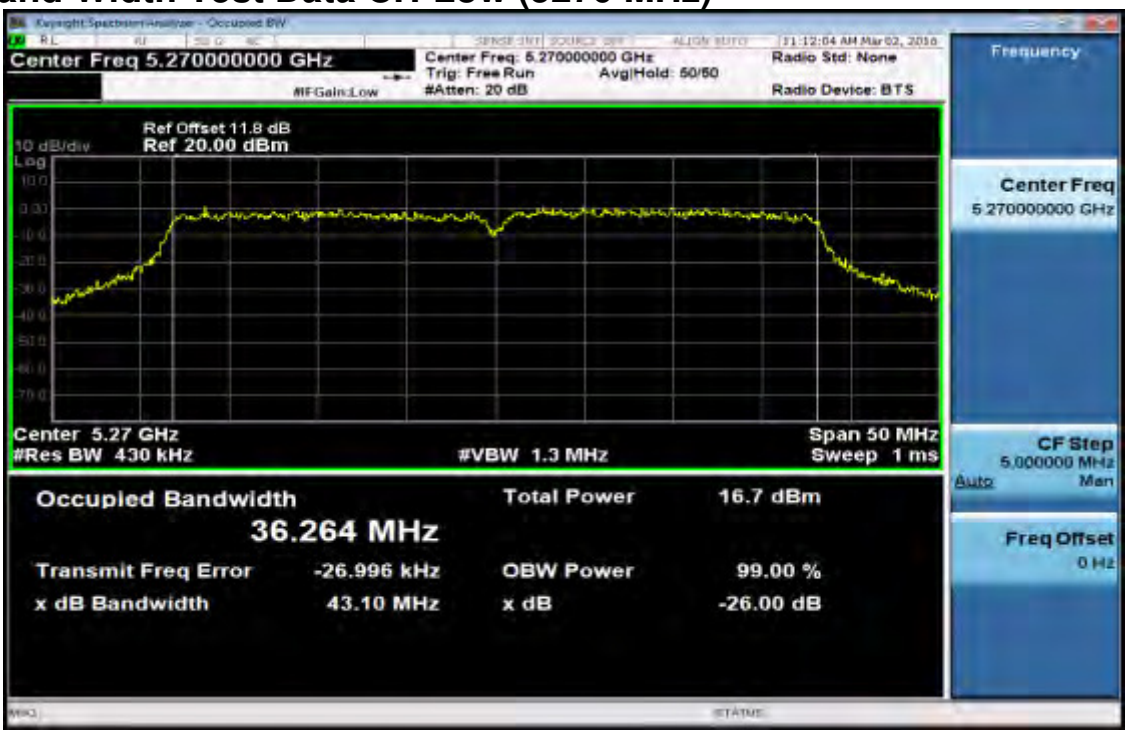


26dB Band Width Test Data CH-High (5230 MHz)

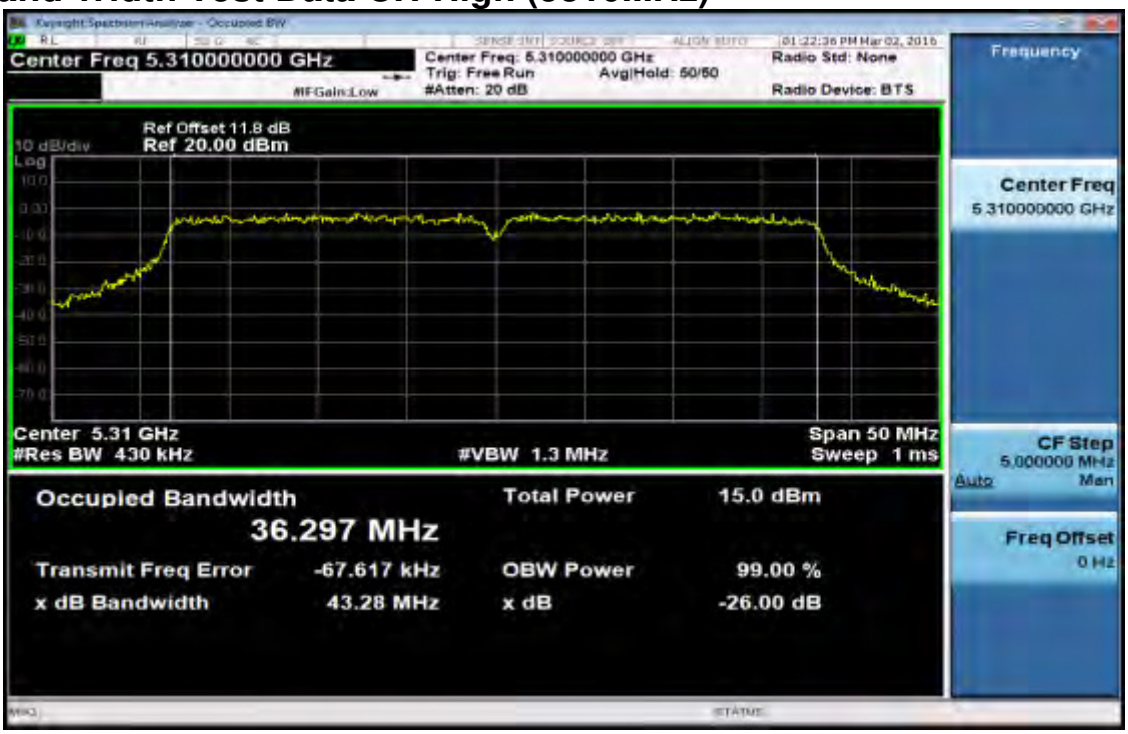


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802.11n HT40, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5270 MHz)

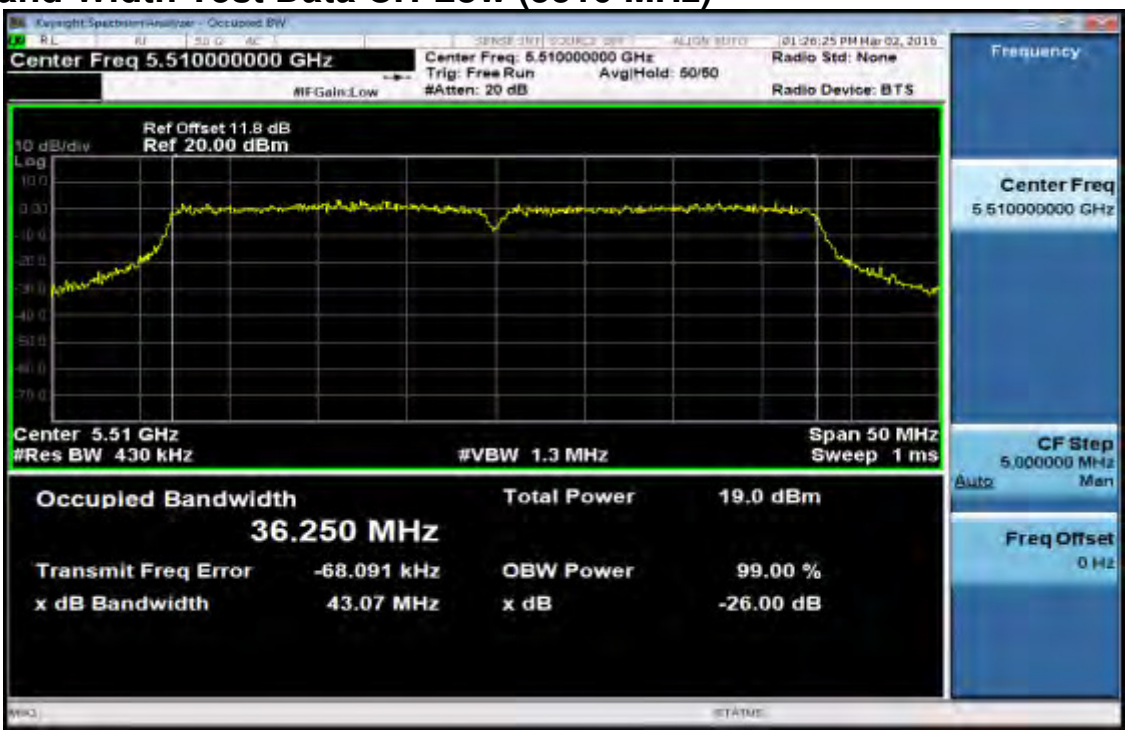


26dB Band Width Test Data CH-High (5310MHz)

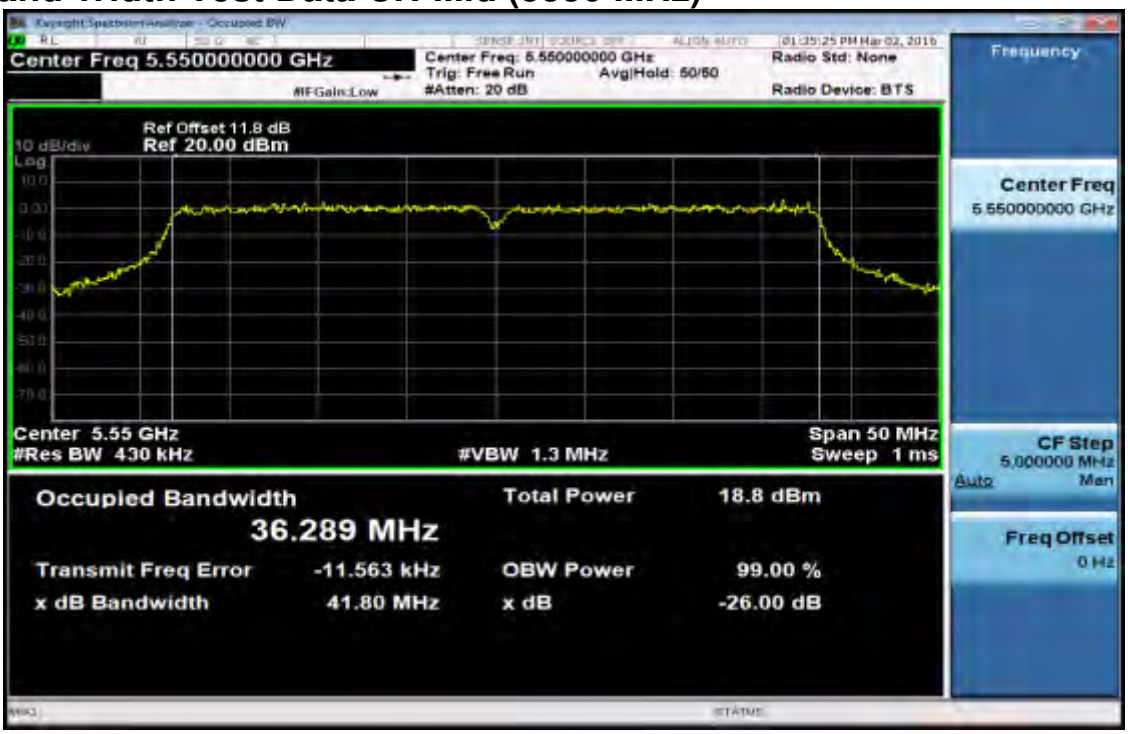


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802.11n HT40, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5510 MHz)

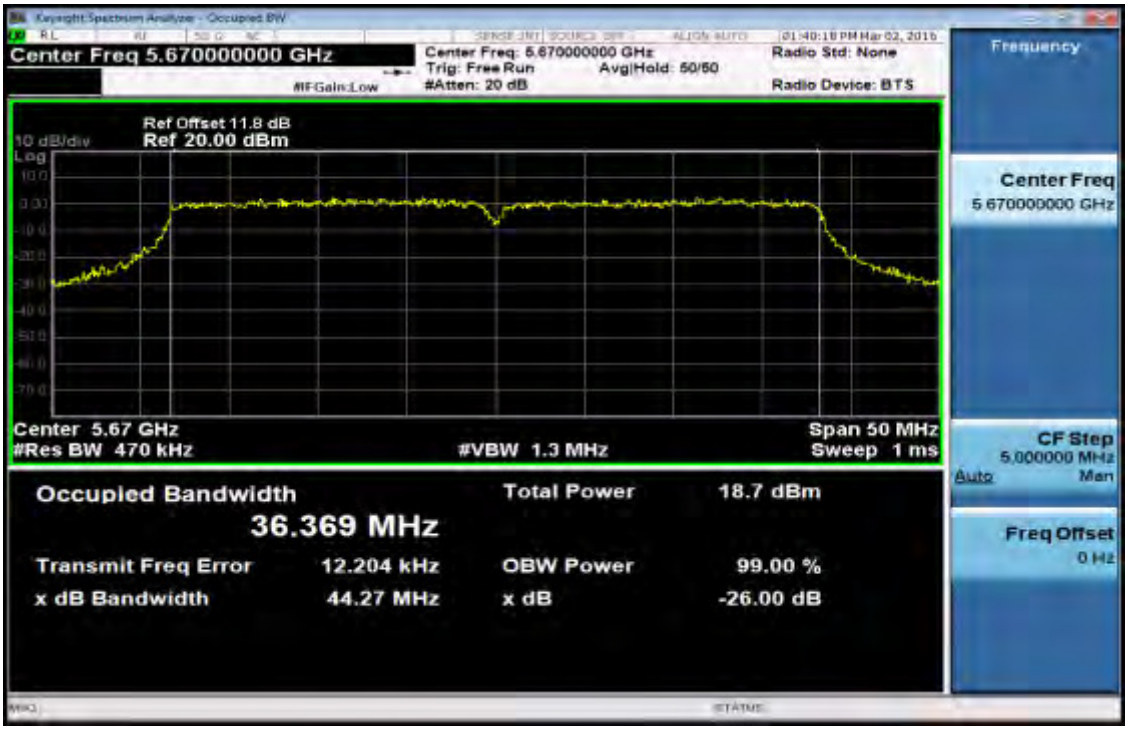


26dB Band Width Test Data CH-Mid (5550 MHz)



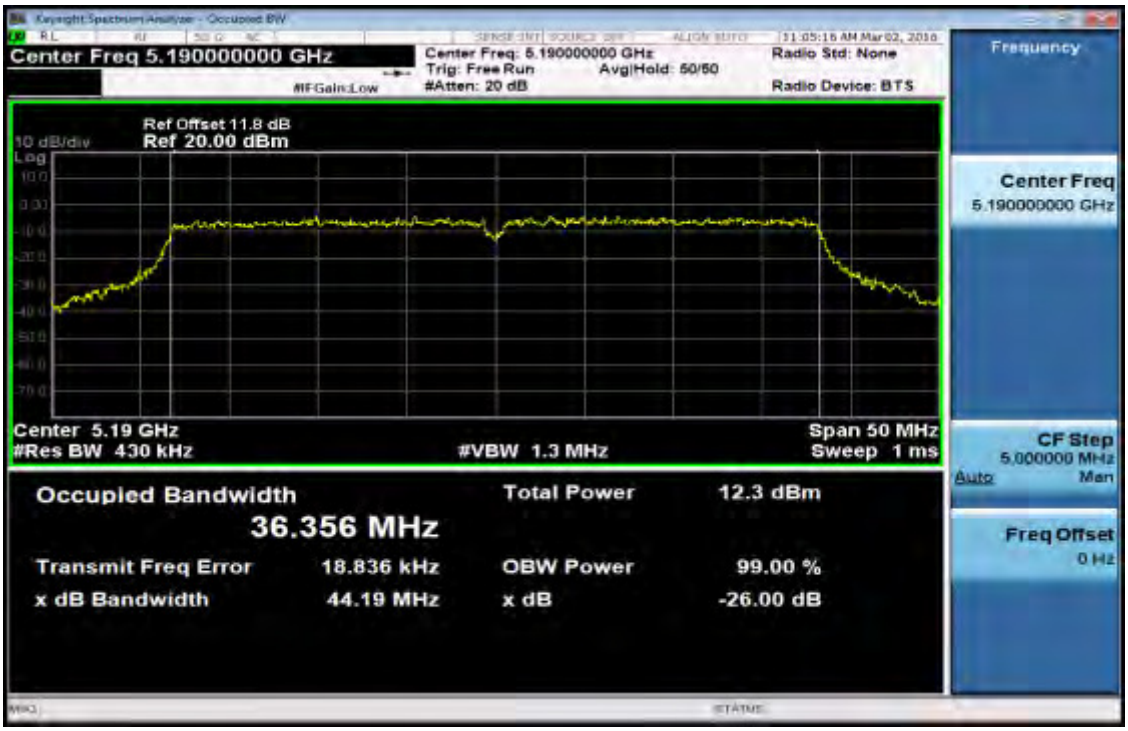
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26dB Band Width Test Data CH-High (5670 MHz)

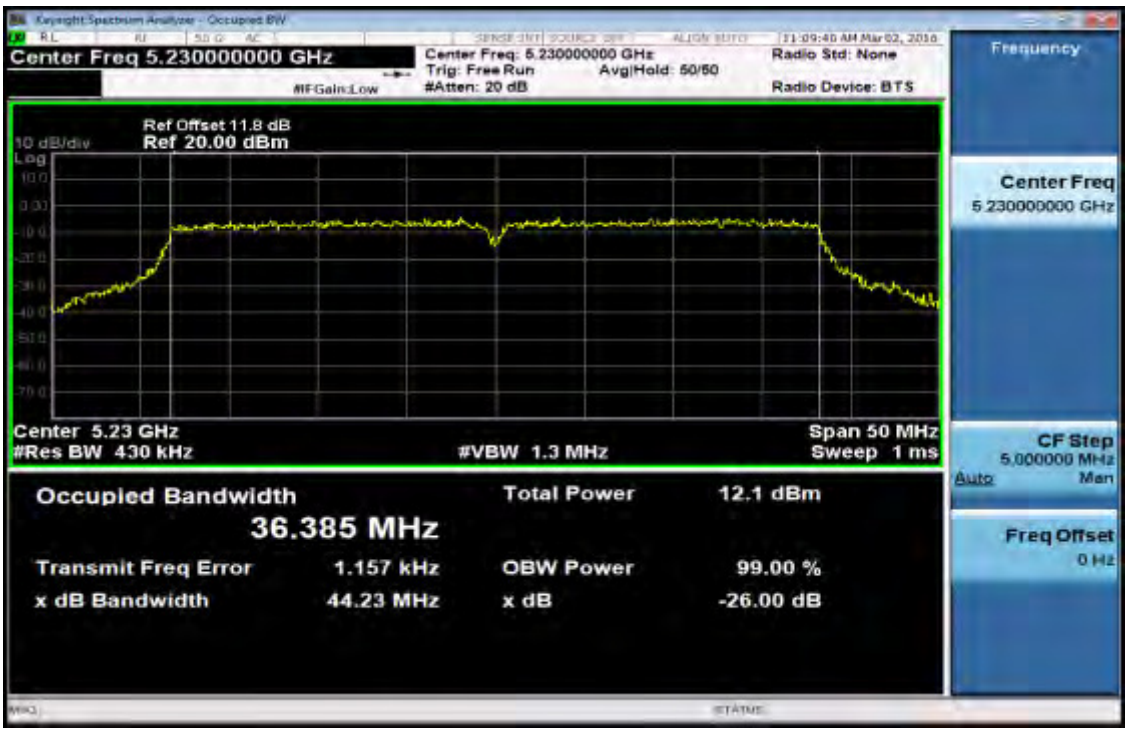


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802.11n HT40, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5190 MHz)

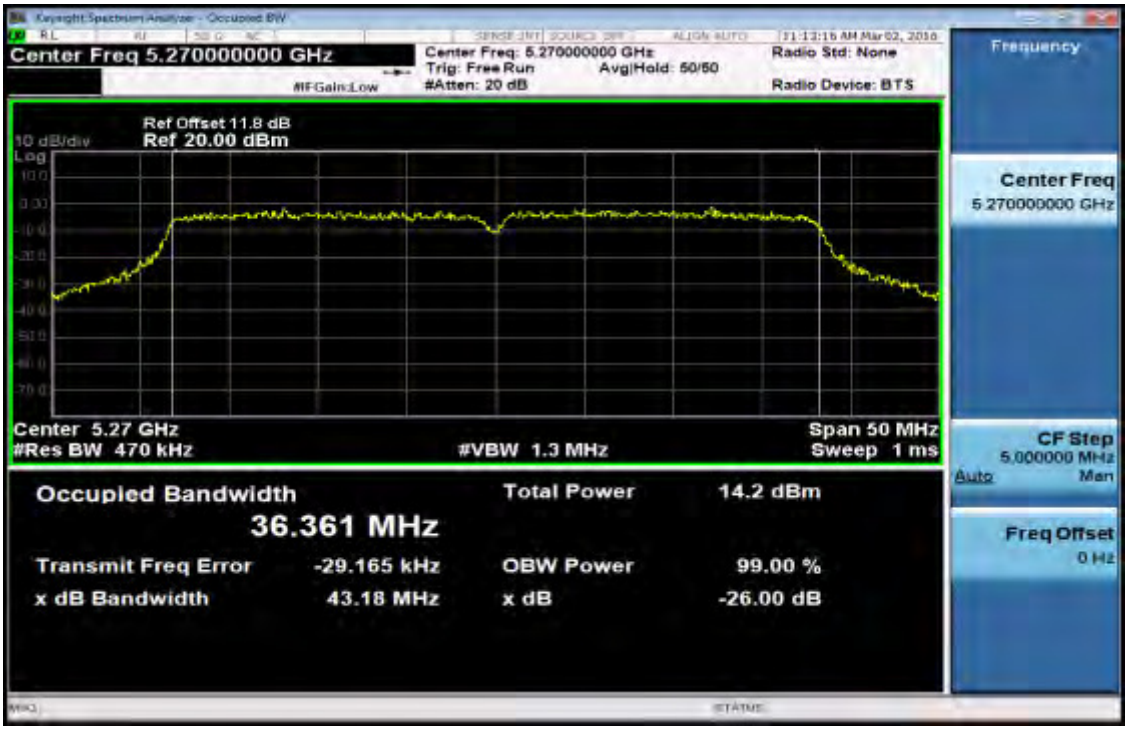


26dB Band Width Test Data CH-High (5230 MHz)

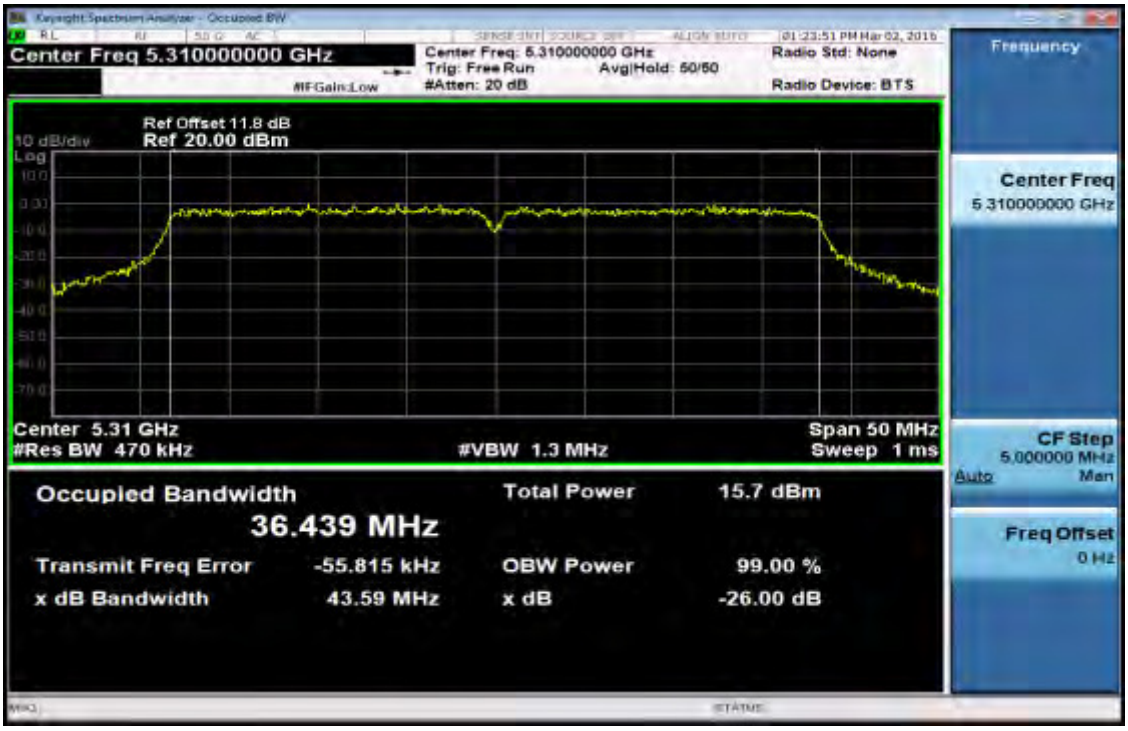


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802.11n HT40, 5250~5350 MHz (Aux1)
26dB Band Width Test Data CH-Low (5270 MHz)

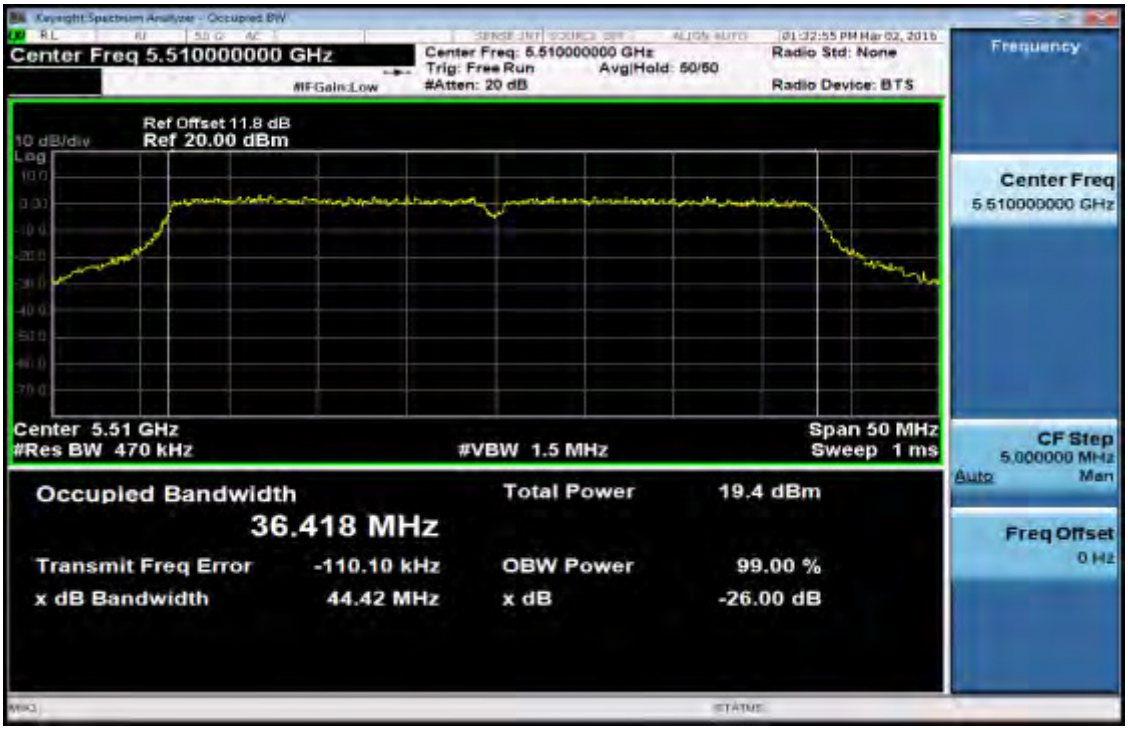


26dB Band Width Test Data CH-High (5310MHz)

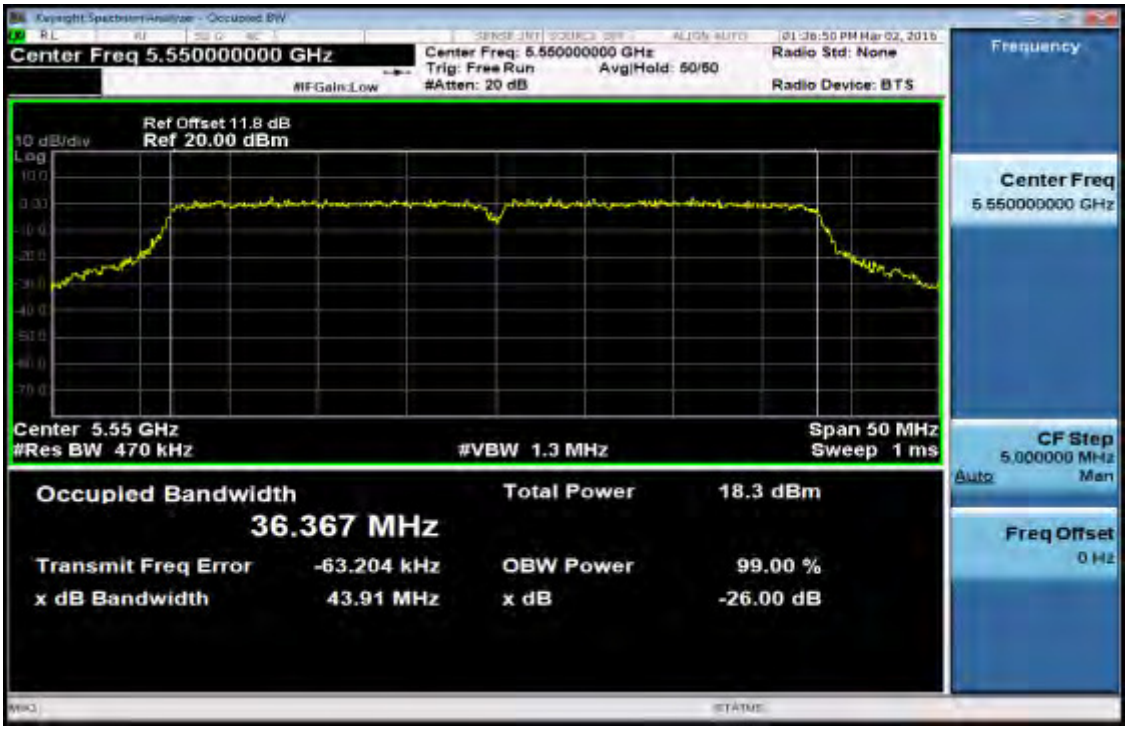


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802.11n HT40, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5510 MHz)

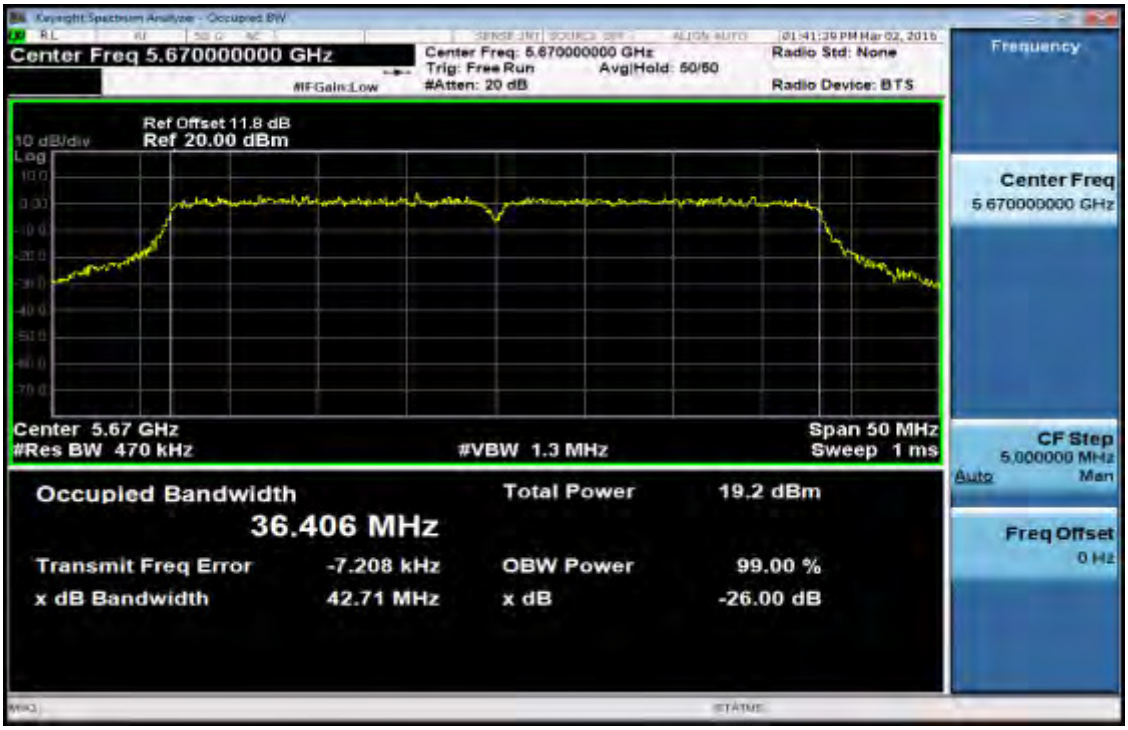


26dB Band Width Test Data CH-Mid (5550 MHz)



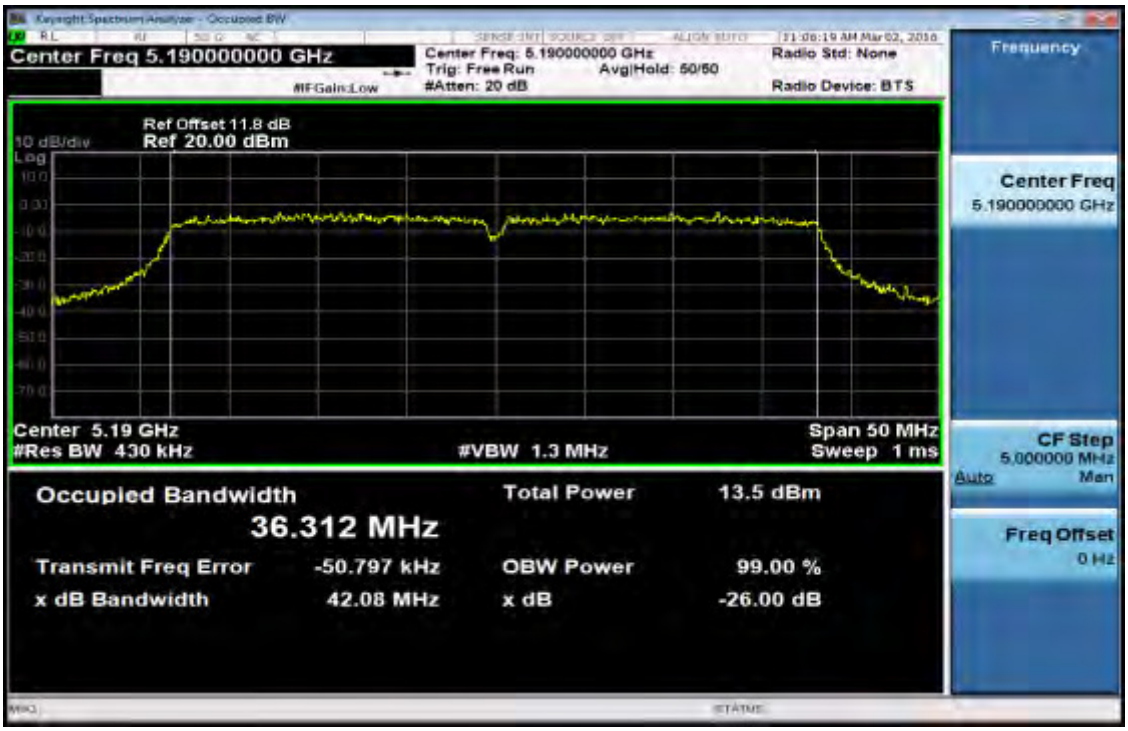
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26dB Band Width Test Data CH-High (5670 MHz)

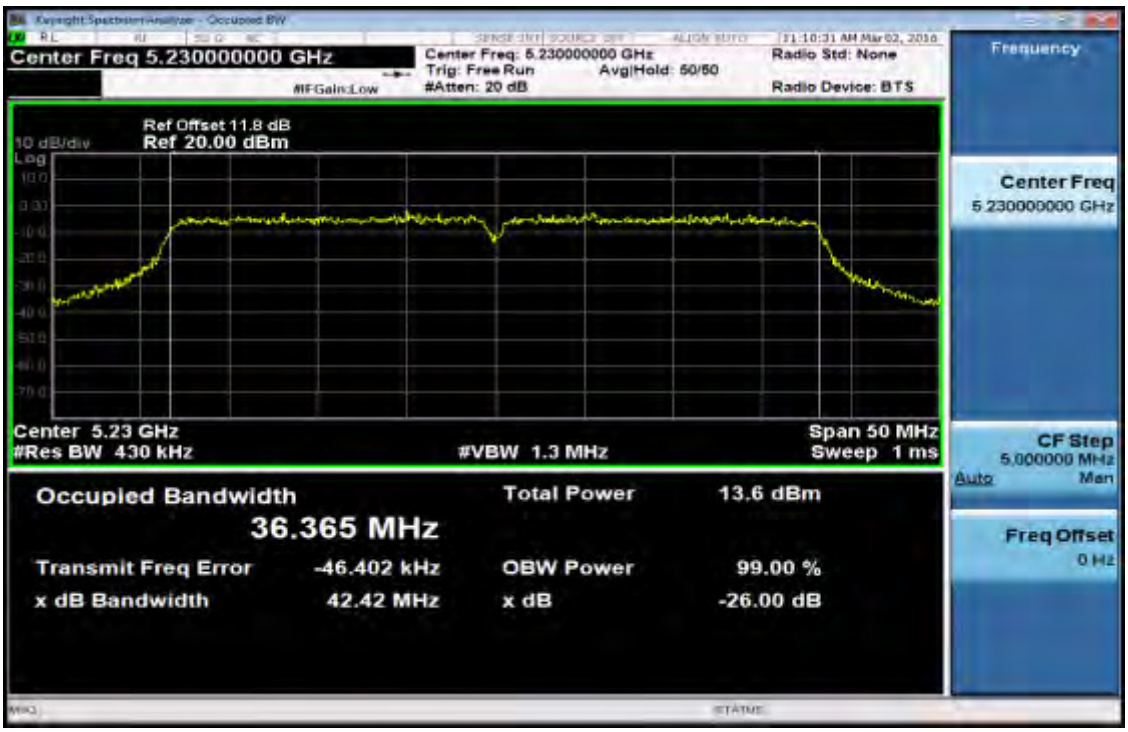


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802.11n HT40, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Low (5190 MHz)

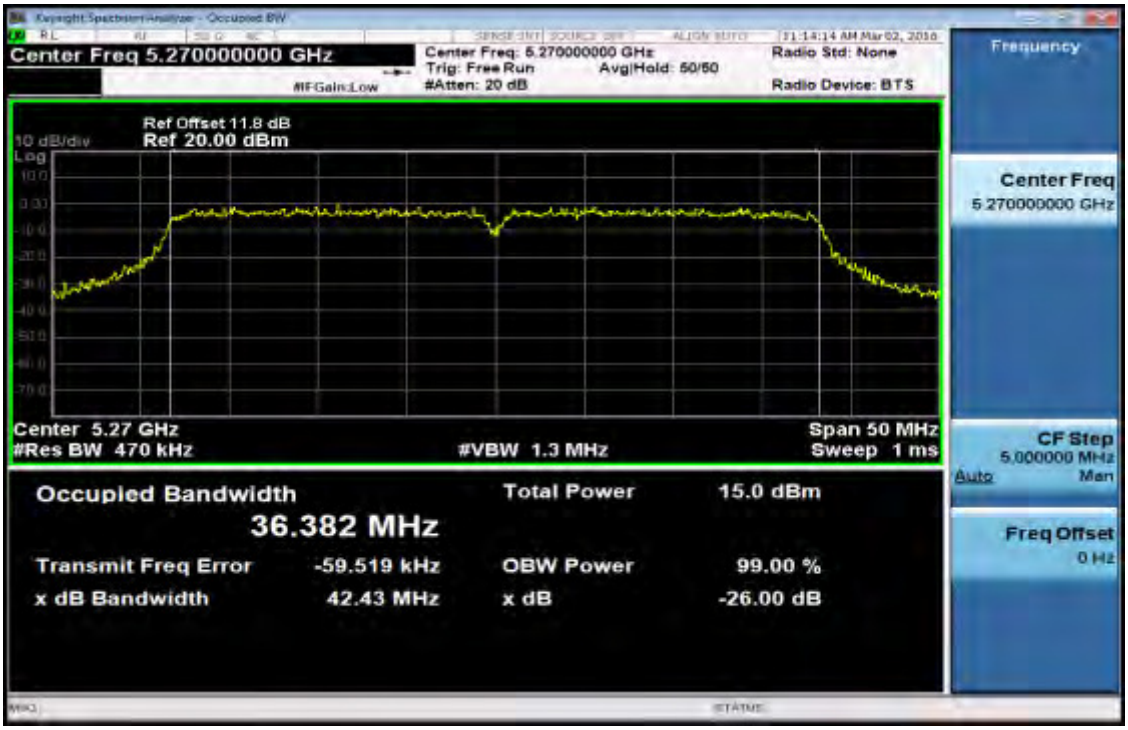


26dB Band Width Test Data CH-High (5230 MHz)

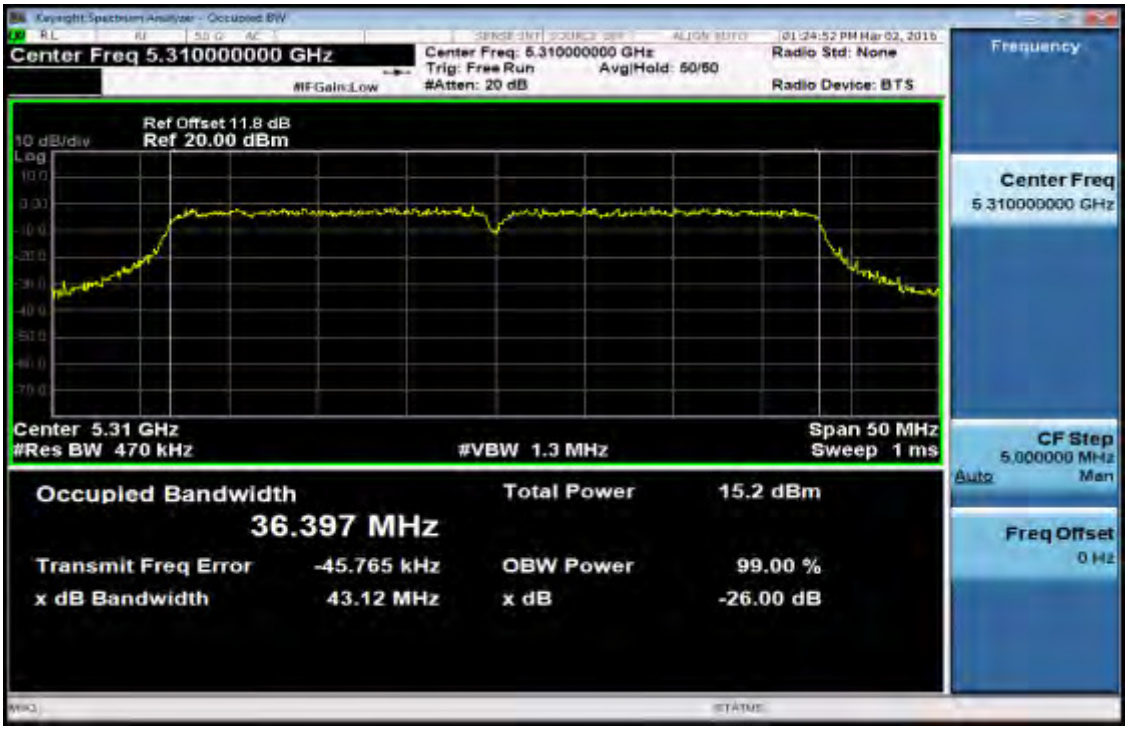


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802.11n HT40, 5250~5350 MHz (Aux2)
26dB Band Width Test Data CH-Low (5270 MHz)

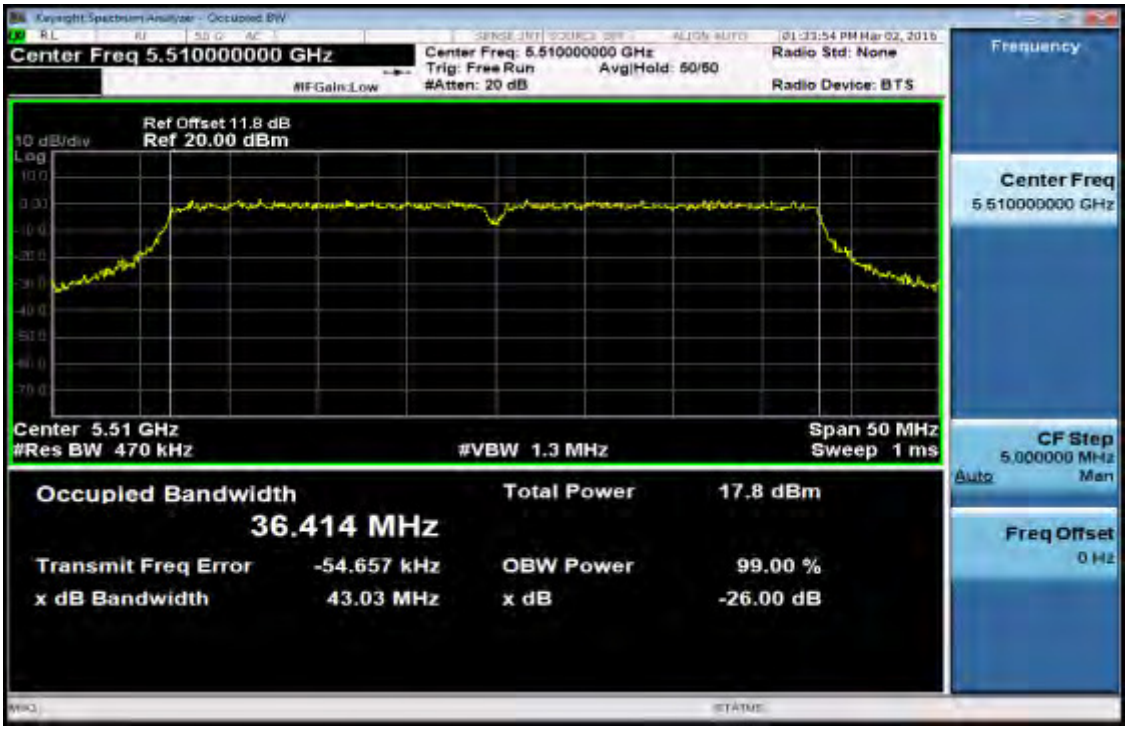


26dB Band Width Test Data CH-High (5310MHz)

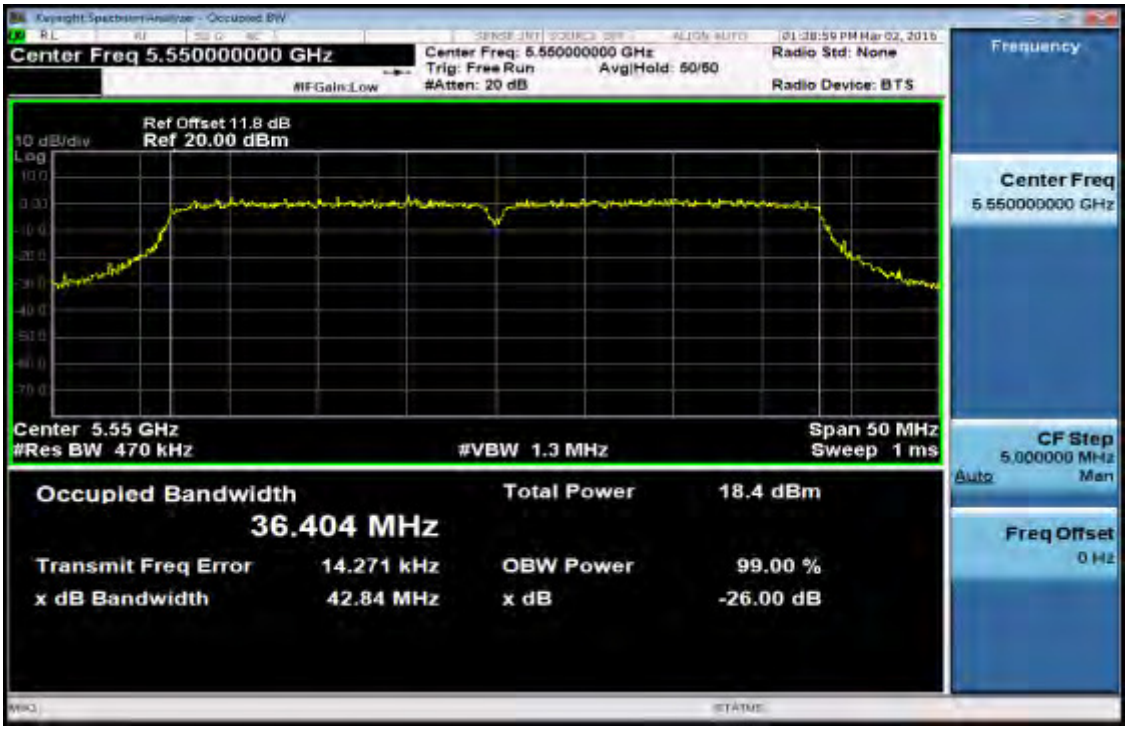


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802.11n HT40, 5470~5725 MHz (Aux2)
26dB Band Width Test Data CH-Low (5510 MHz)

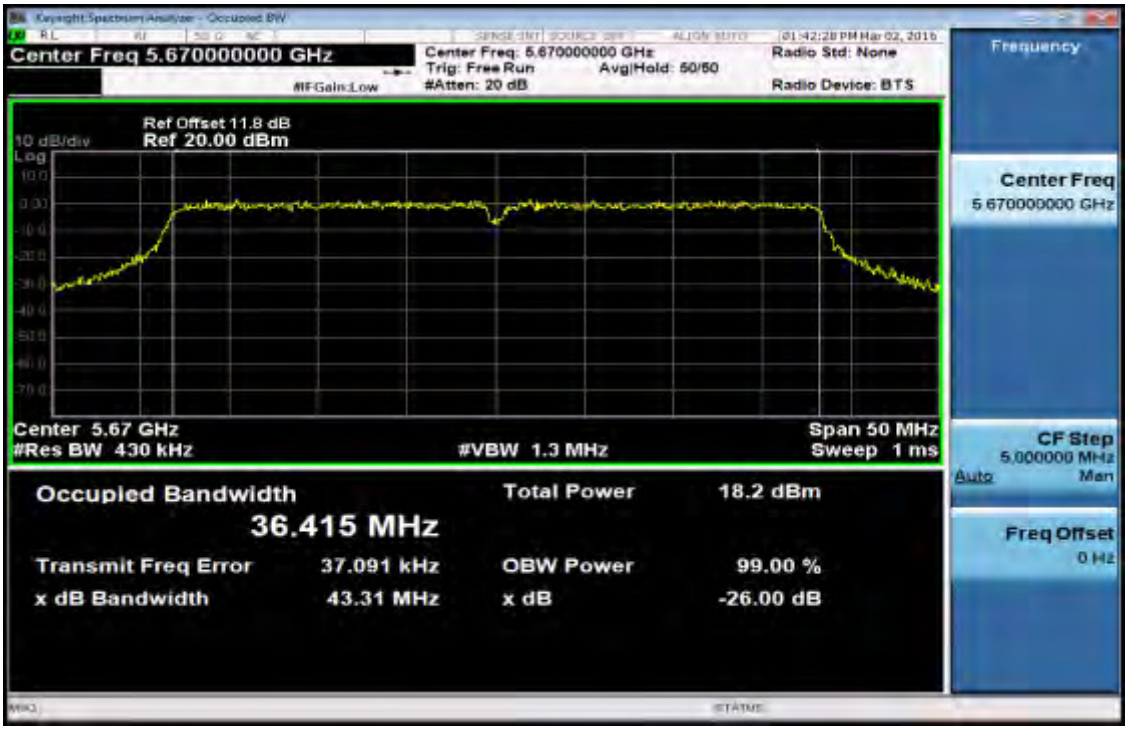


26dB Band Width Test Data CH-Mid (5550 MHz)



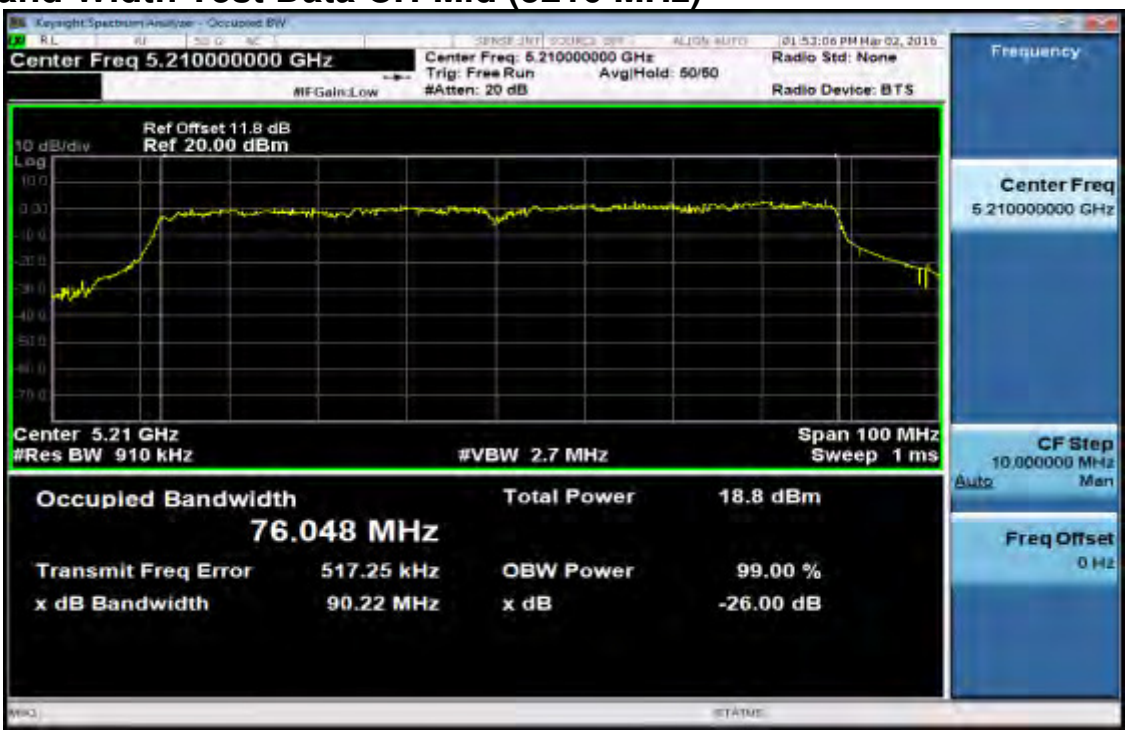
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26dB Band Width Test Data CH-High (5670 MHz)

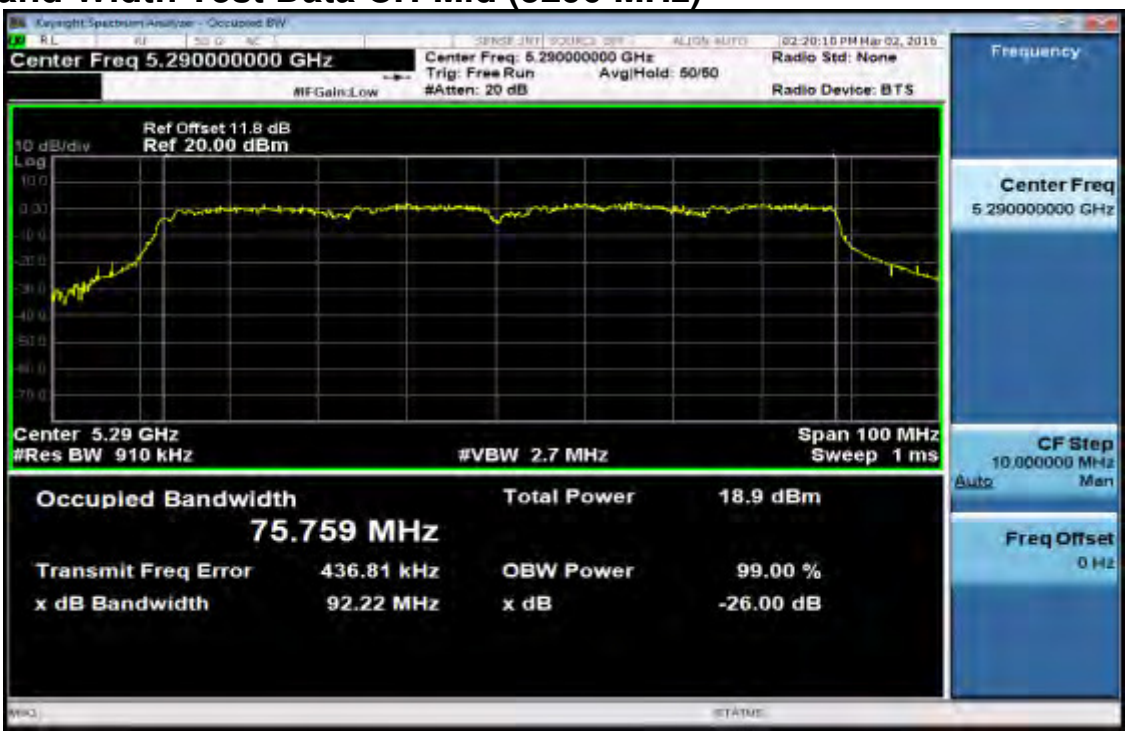


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802.11ac VHT80, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Mid (5210 MHz)

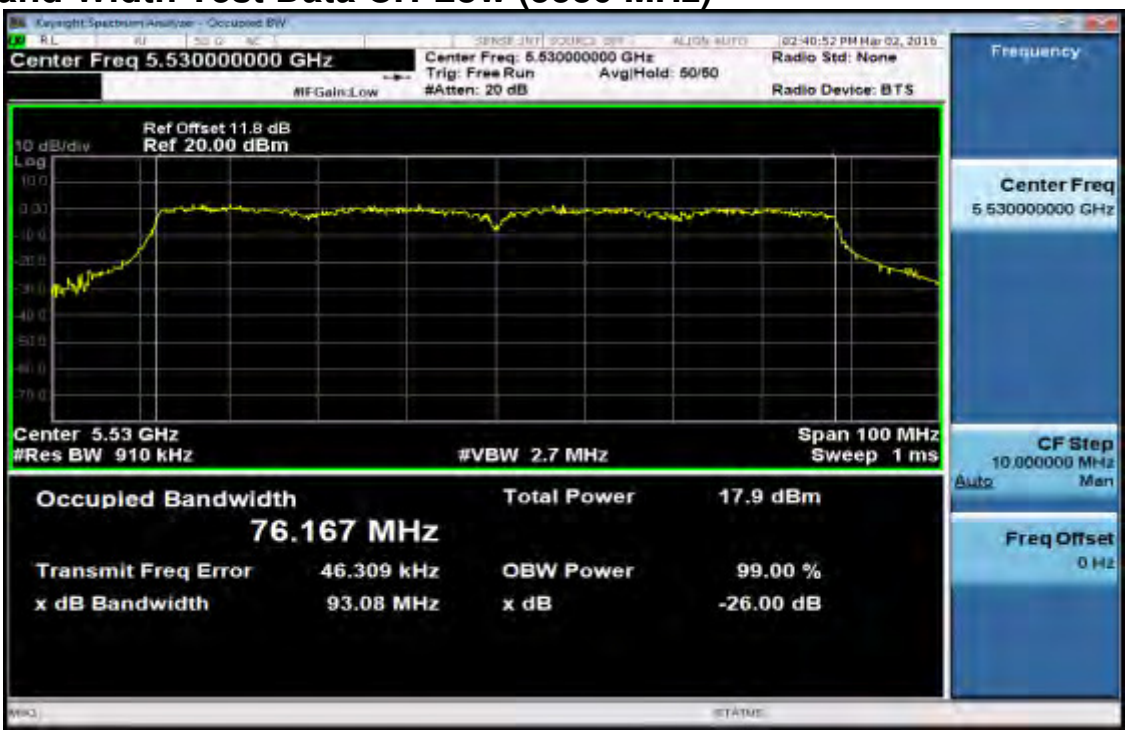


802.11ac VHT80, 5250~5350 MHz
26dB Band Width Test Data CH-Mid (5290 MHz)

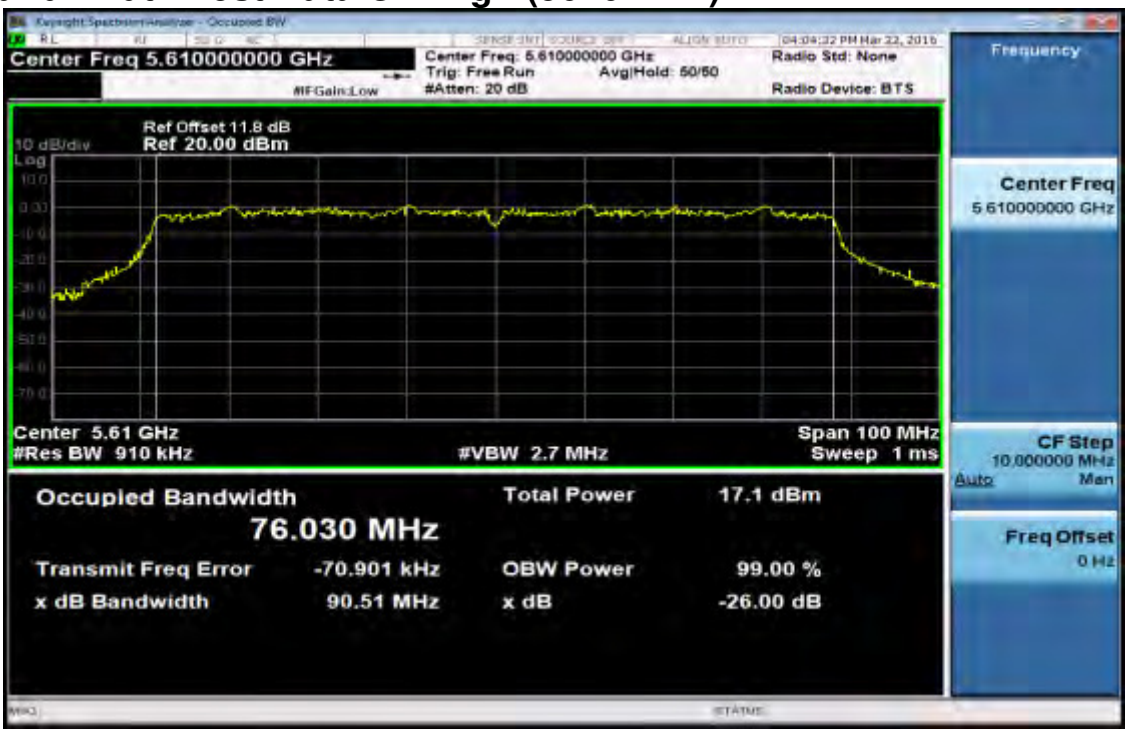


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802.11ac VHT80, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5530 MHz)

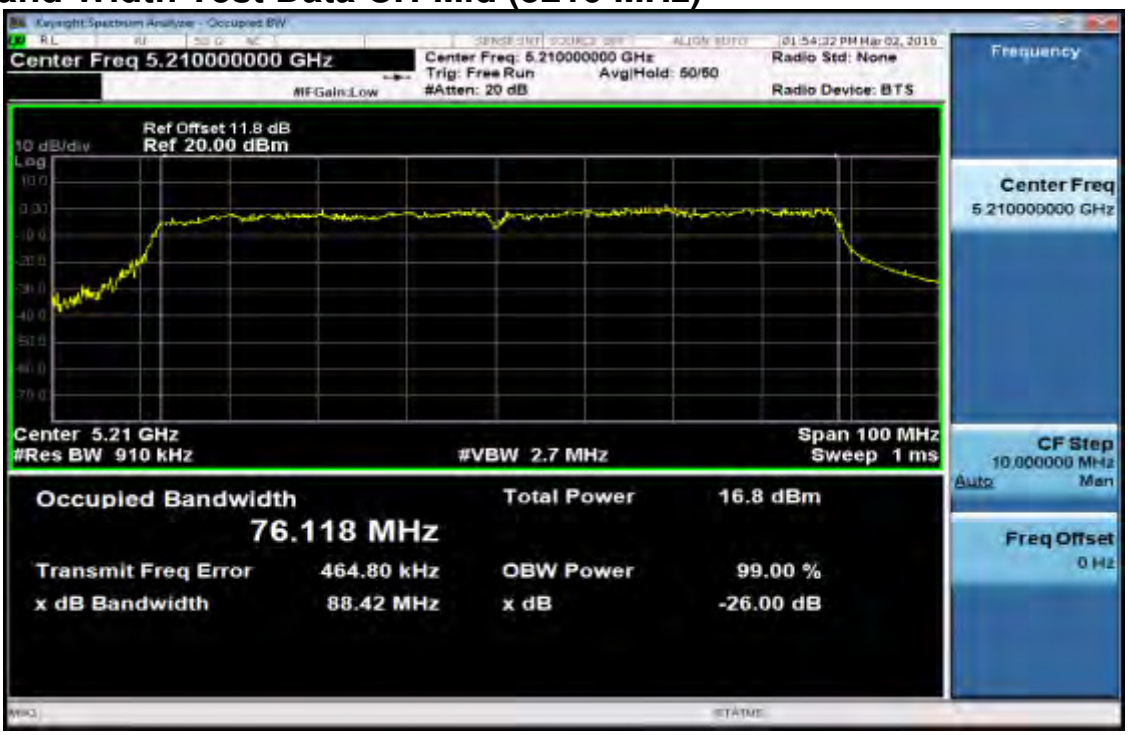


802.11ac VHT80, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-High (5610 MHz)

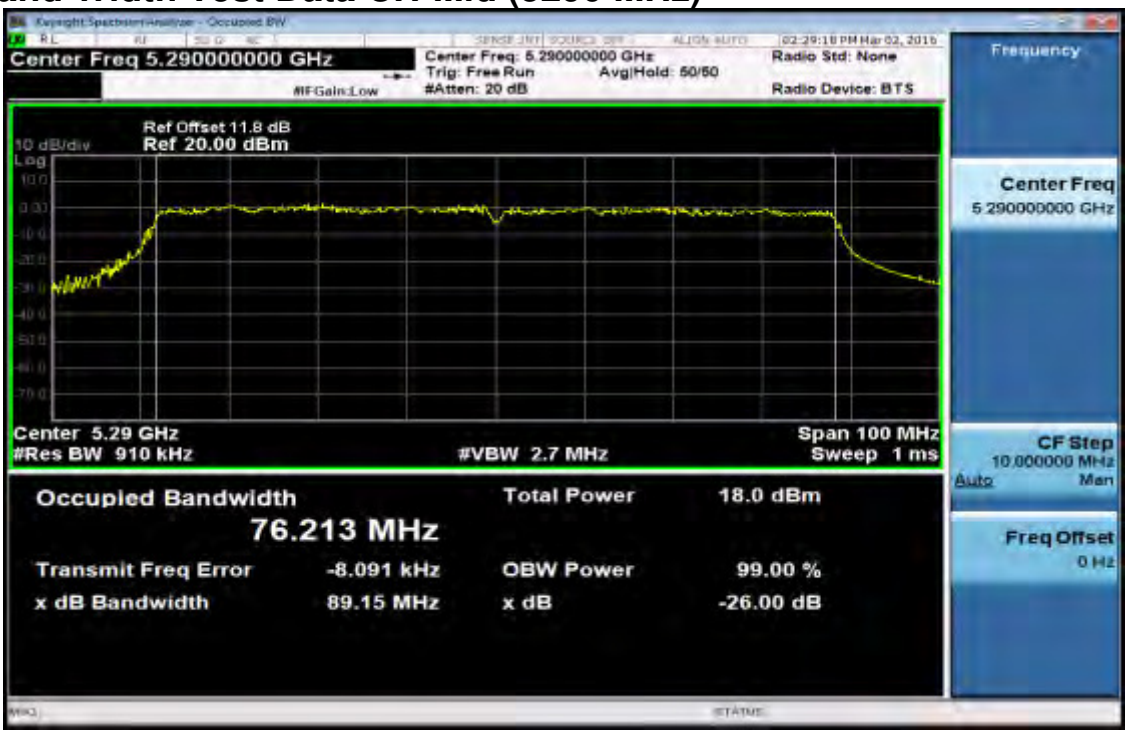


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802.11ac VHT80, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Mid (5210 MHz)

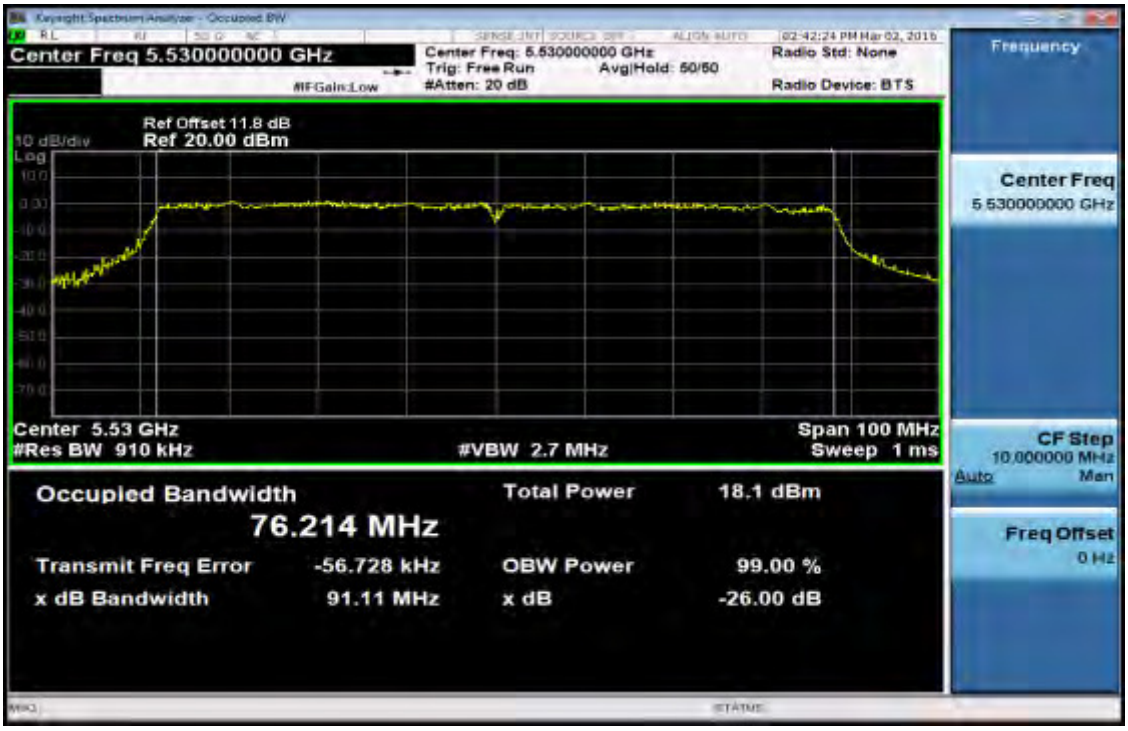


802.11ac VHT80, 5250~5350 MHz
26dB Band Width Test Data CH-Mid (5290 MHz)

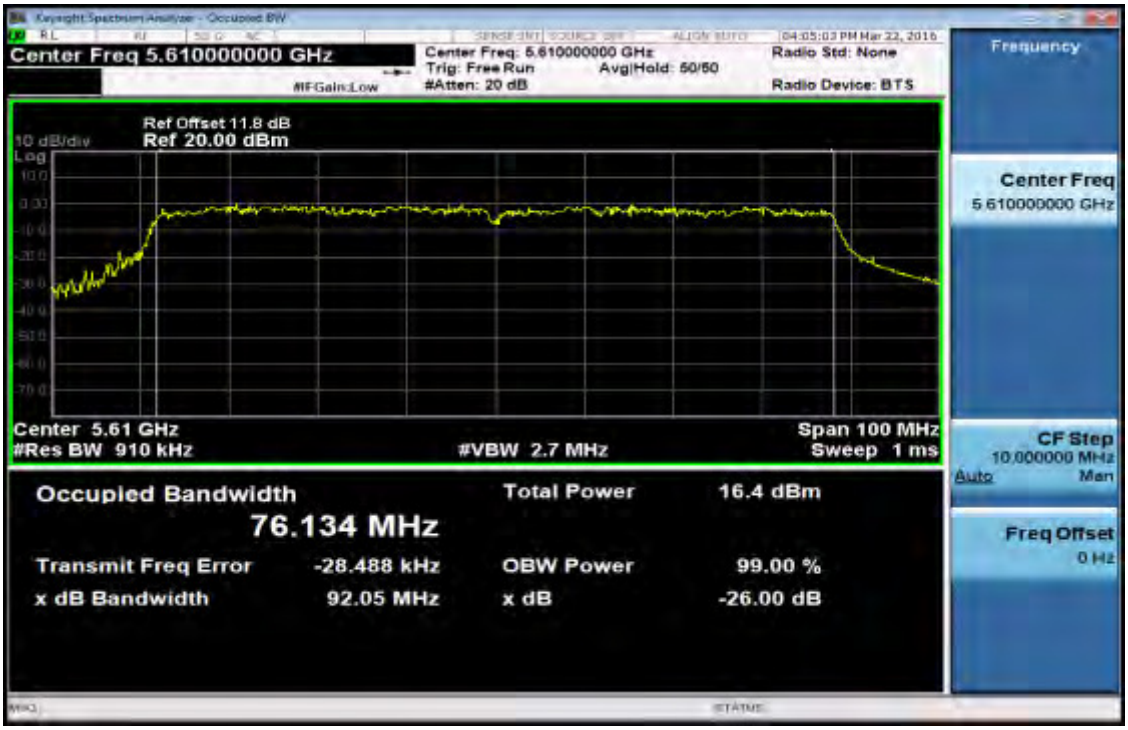


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802.11ac VHT80, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5530 MHz)

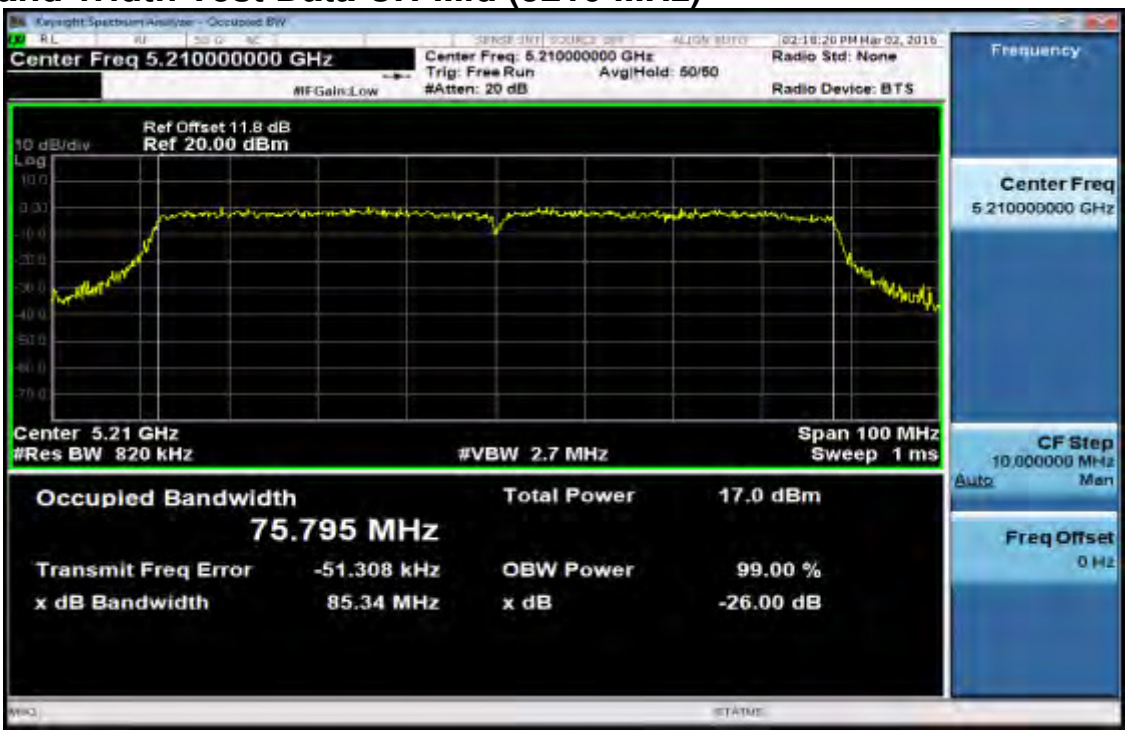


802.11ac VHT80, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-High (5610 MHz)

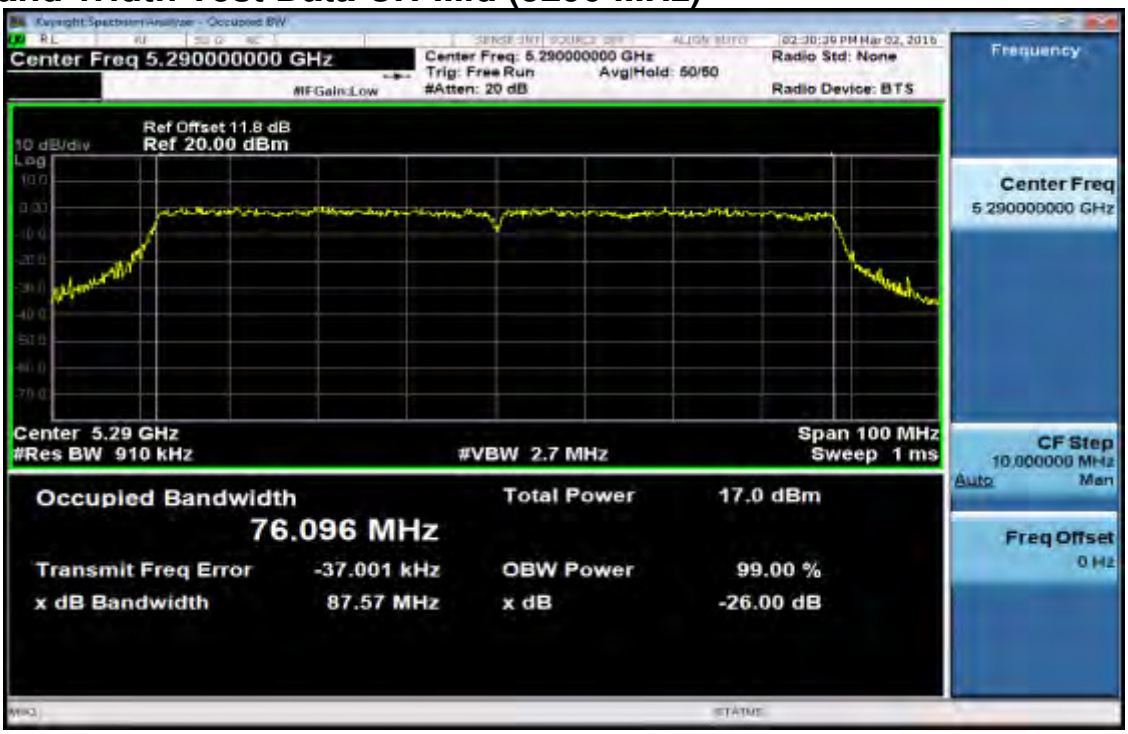


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802.11ac VHT80, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz (Aux2)
26dB Band Width Test Data CH-Mid (5290 MHz)

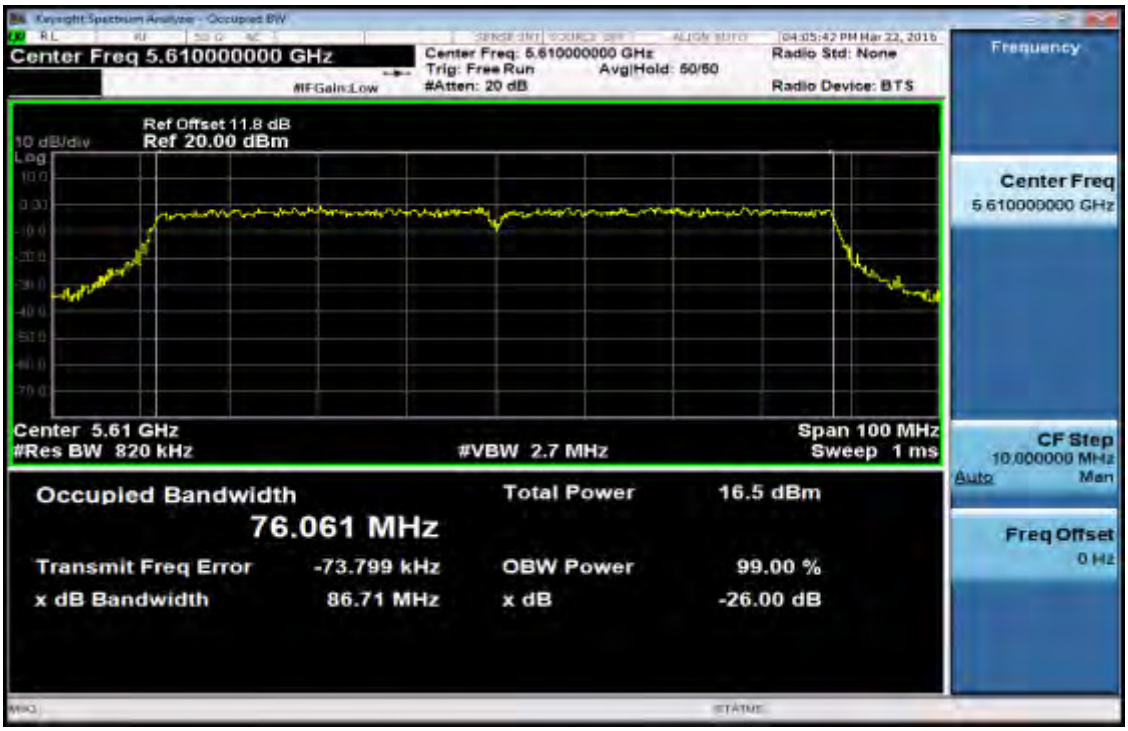


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802.11ac VHT80, 5470~5725 MHz (Aux2)
26dB Band Width Test Data CH-Low (5530 MHz)



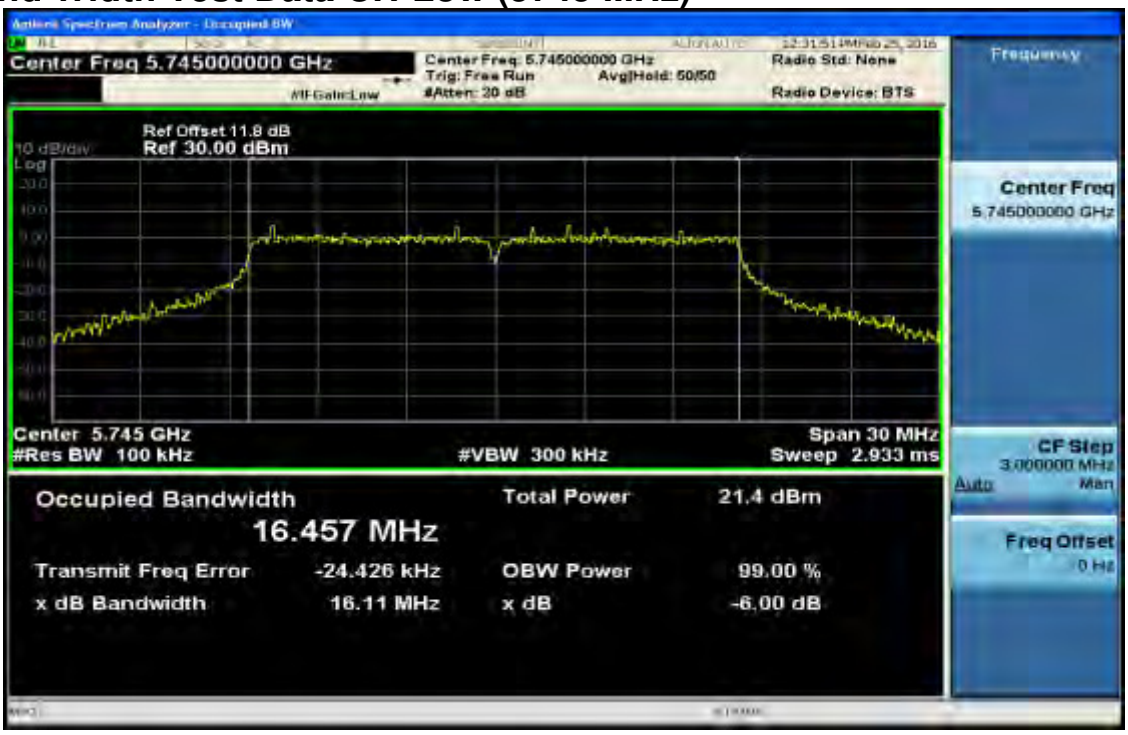
802.11ac VHT80, 5470~5725 MHz (Aux2)
26dB Band Width Test Data CH-High (5610 MHz)



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6dB Band Width measure with Peak detector for FCC 802.11a, 5725~5850 MHz (Main)

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



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



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

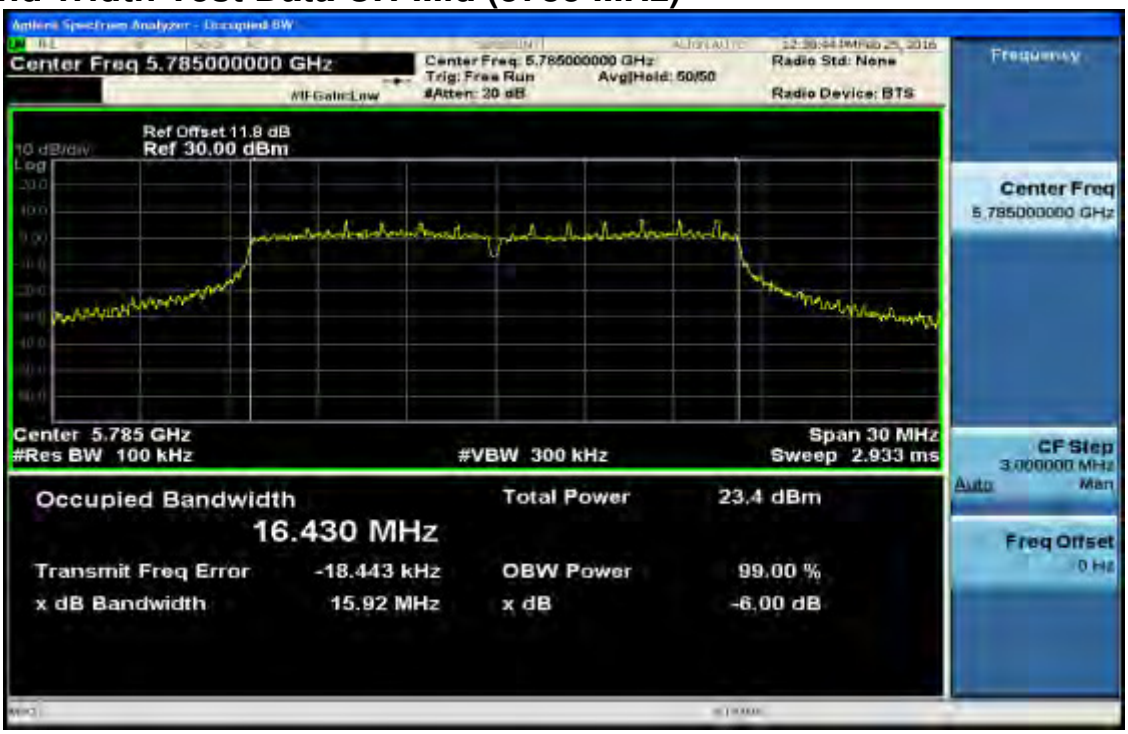


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802.11a, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5745 MHz)



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



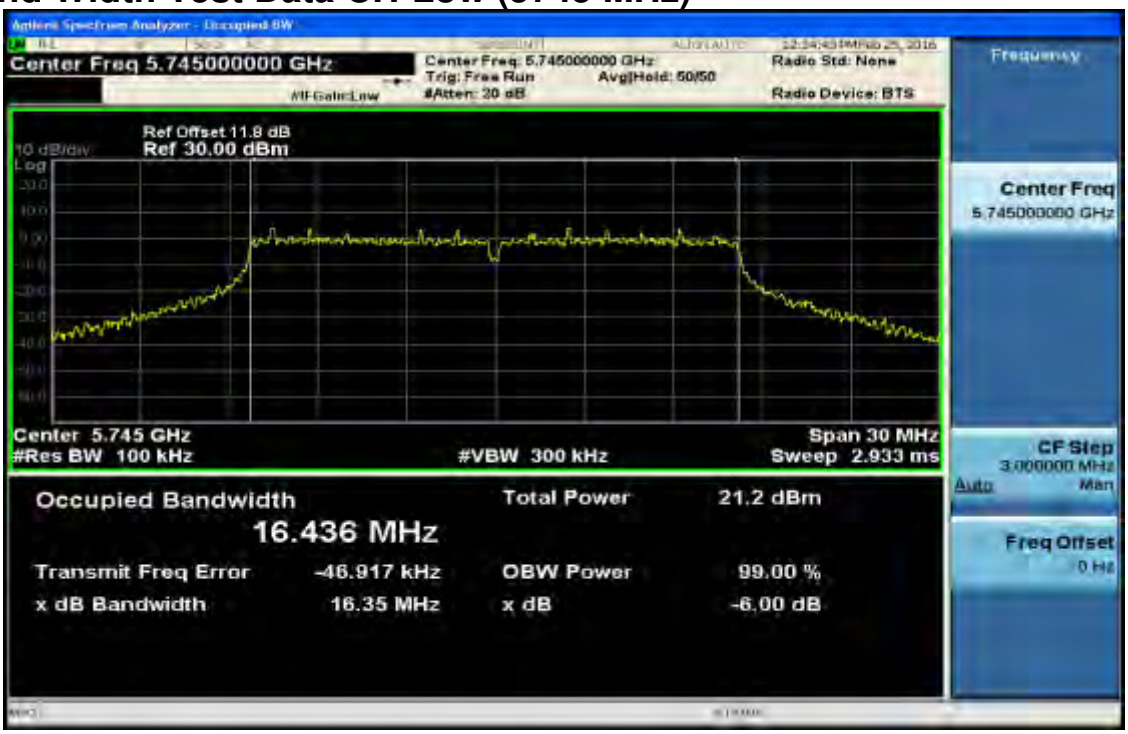
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6dB Band Width Test Data CH-High (5825 MHz)



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



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



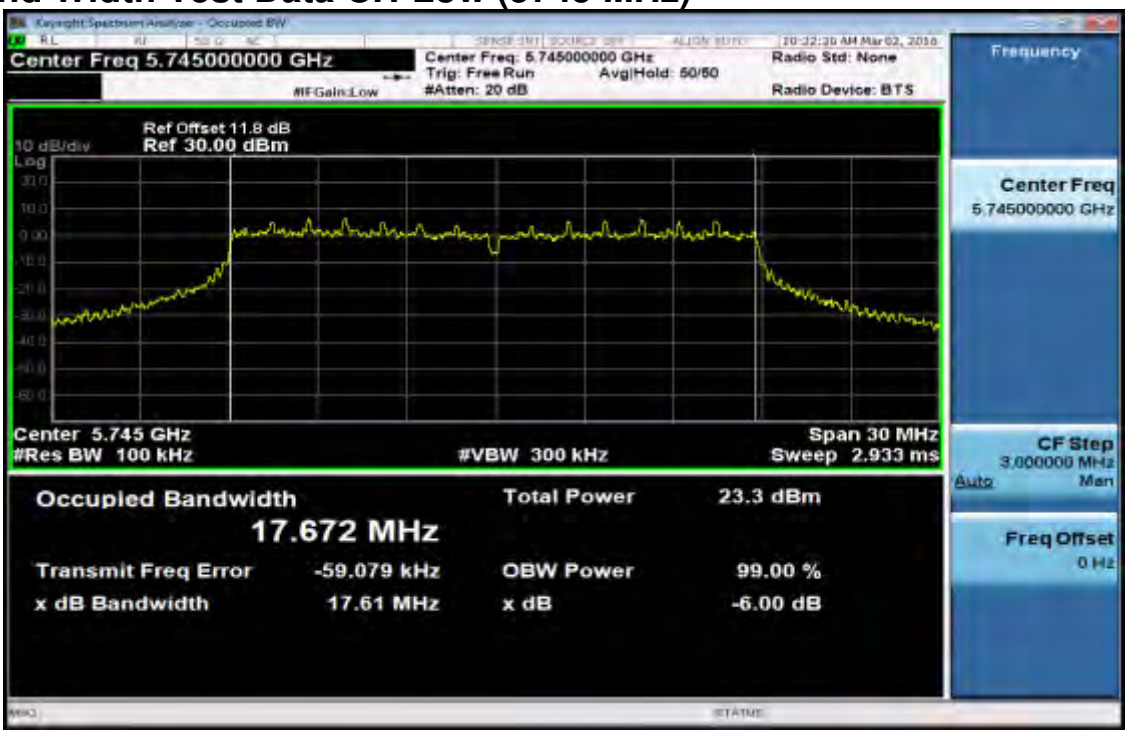
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6dB Band Width Test Data CH-High (5825 MHz)

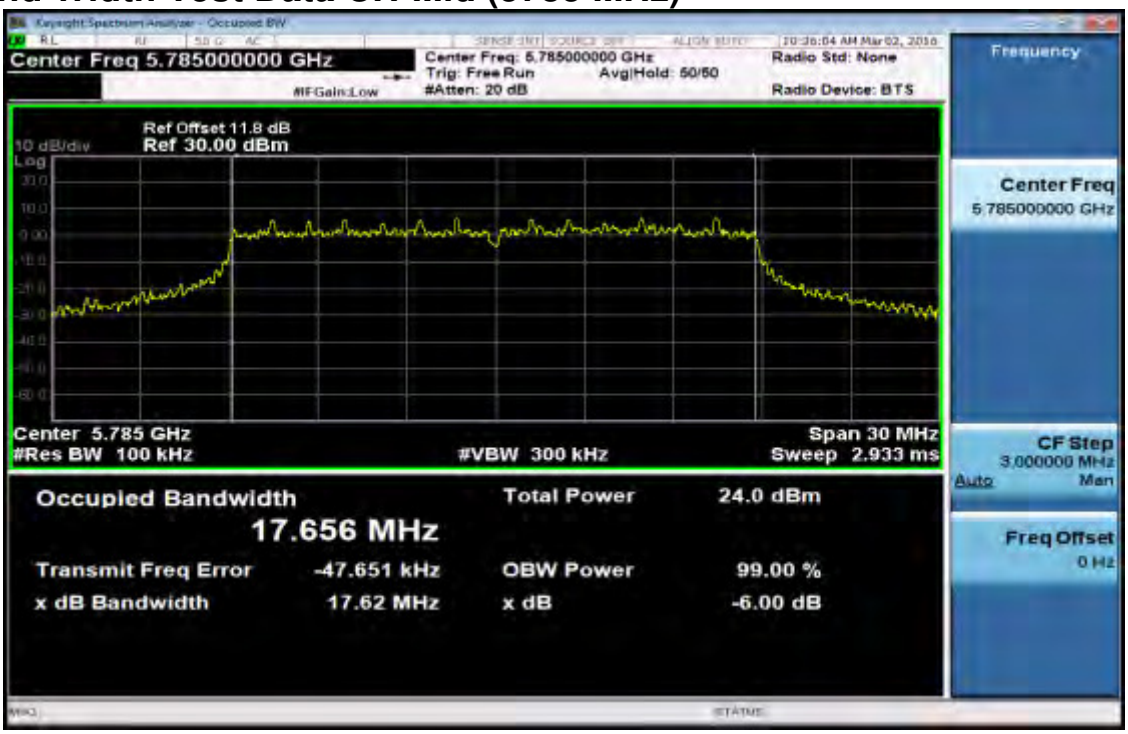


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802.11n_HT20, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5745 MHz)

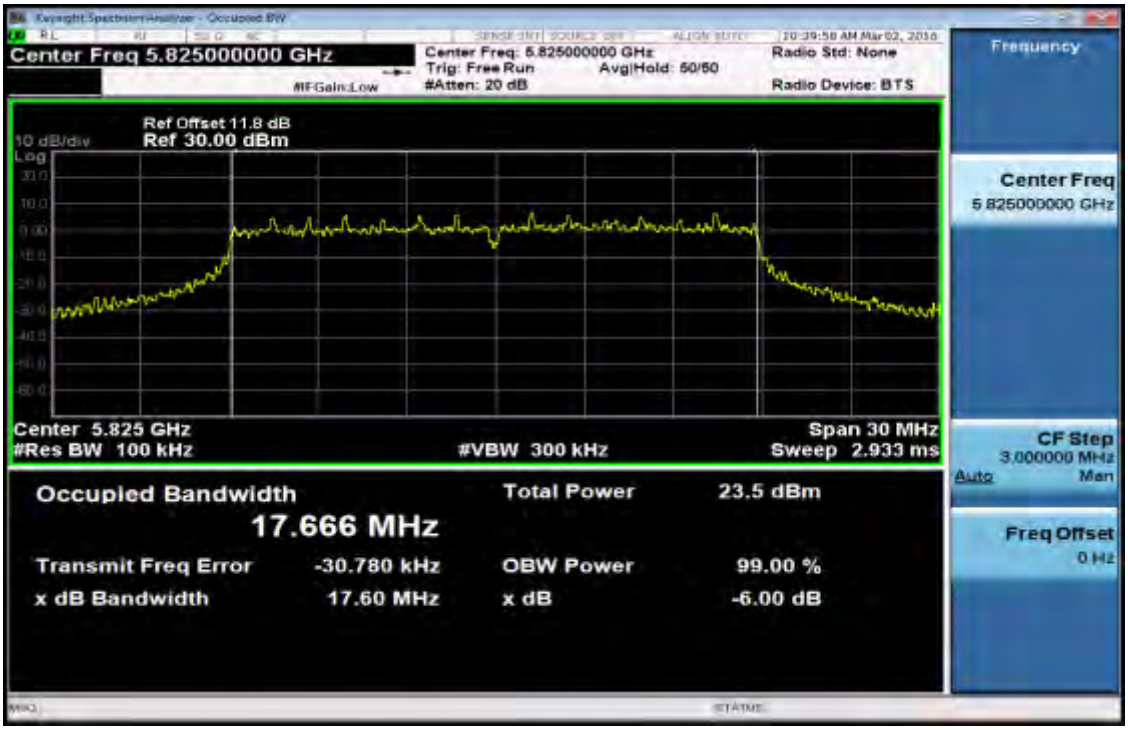


6dB Band Width Test Data CH-Mid (5785 MHz)



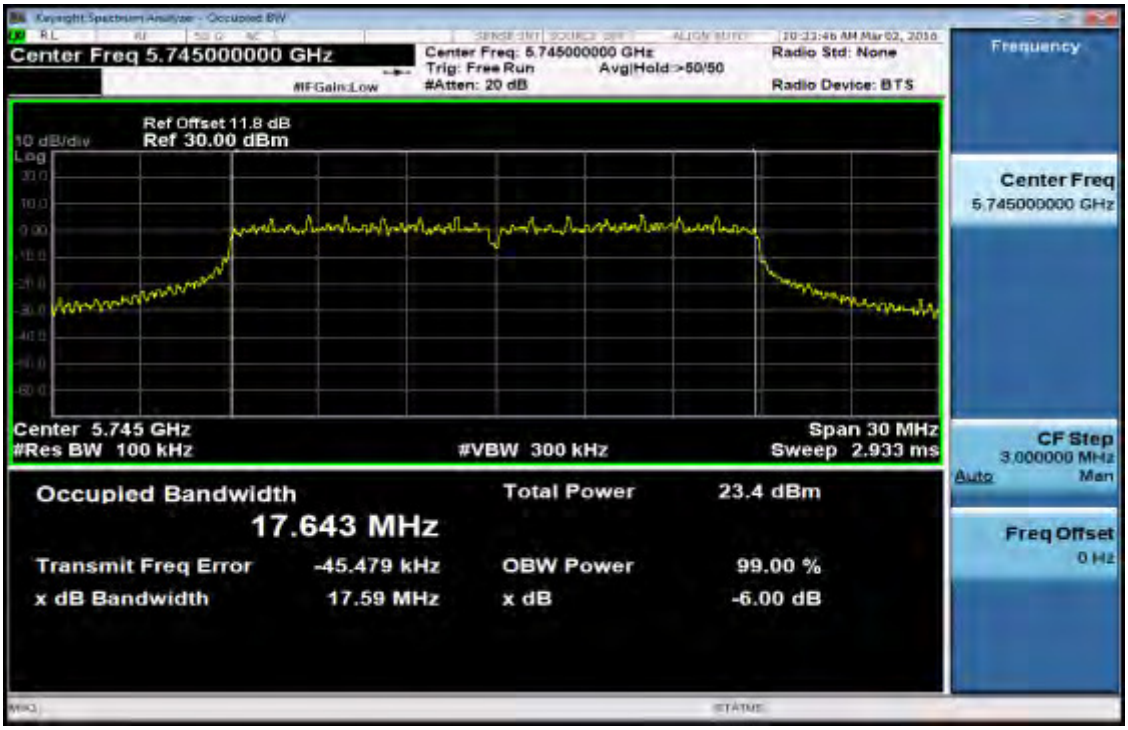
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6dB Band Width Test Data CH-High (5825 MHz)

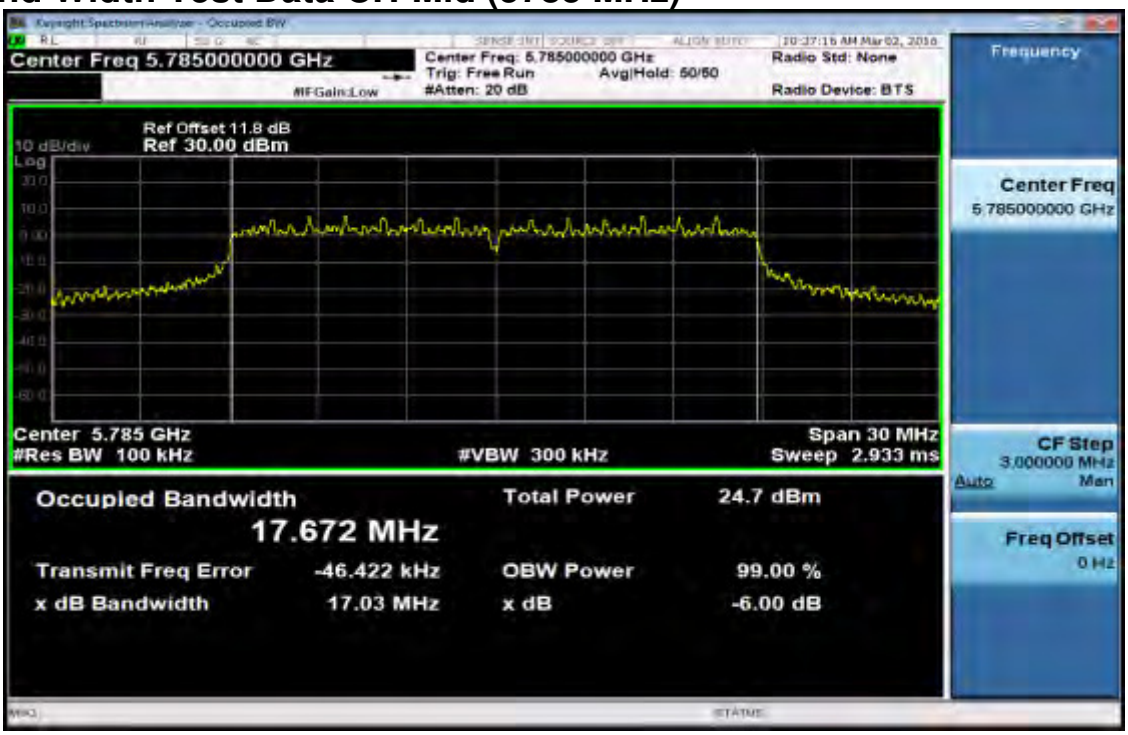


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802.11n_HT20, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5745 MHz)

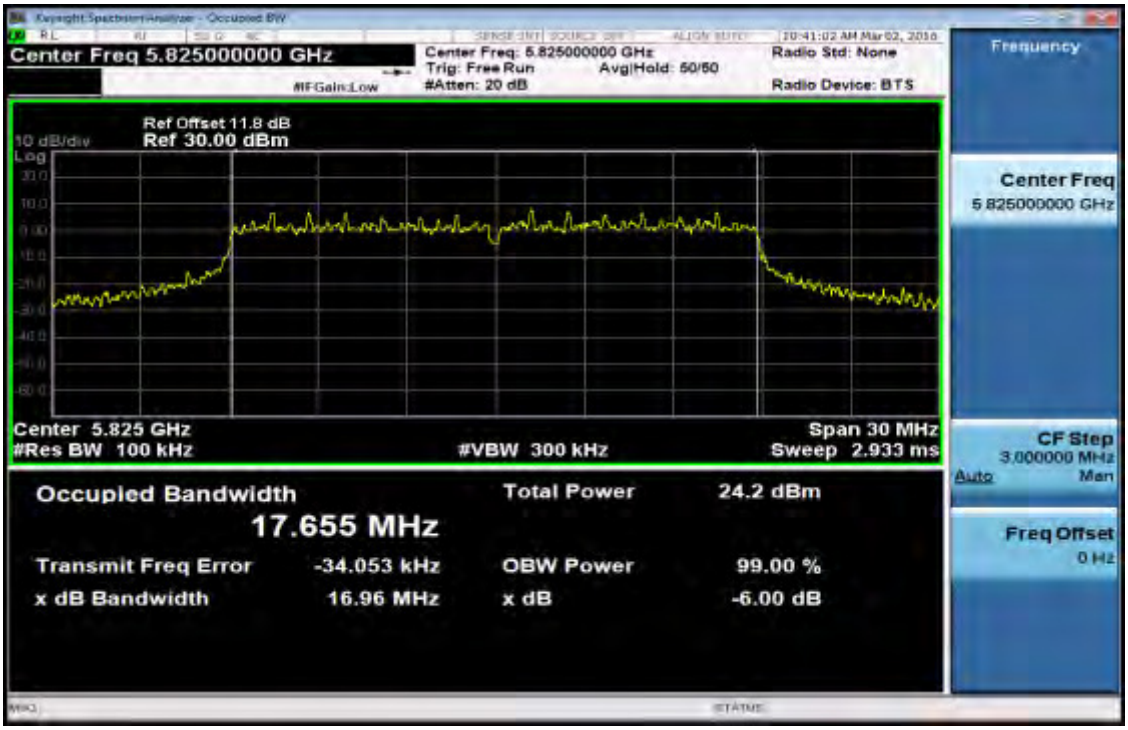


6dB Band Width Test Data CH-Mid (5785 MHz)



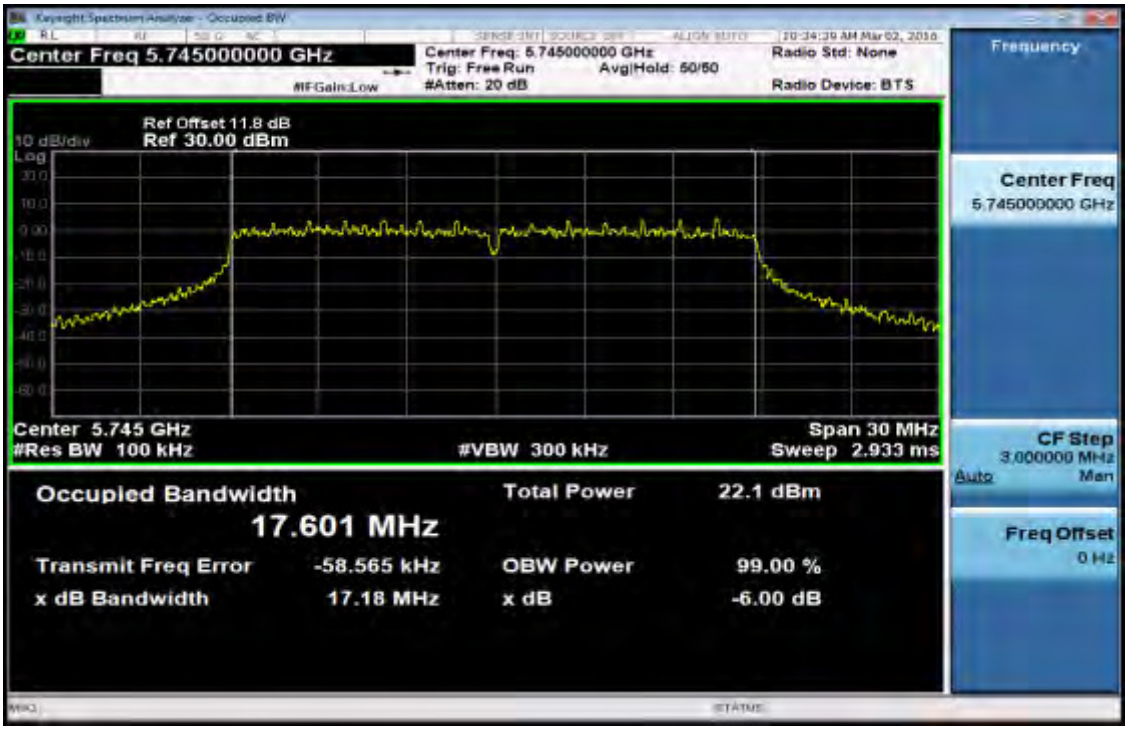
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6dB Band Width Test Data CH-High (5825 MHz)

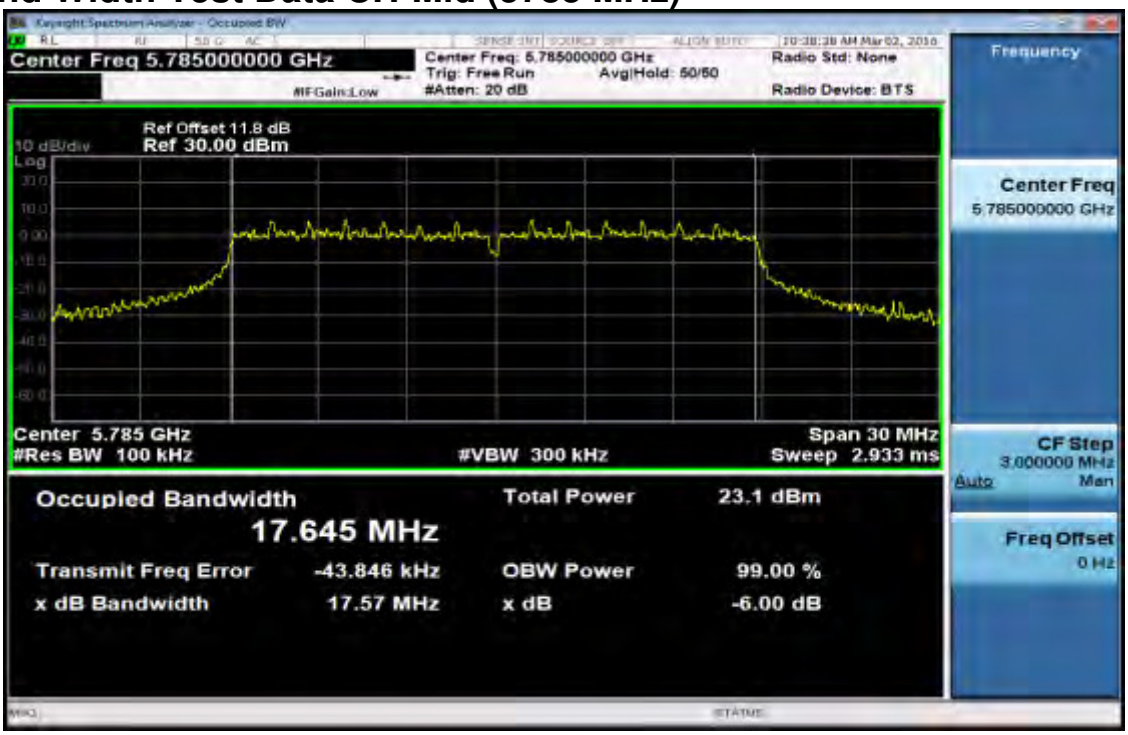


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802.11n_HT20, 5725~5850 MHz (Aux2)
6dB Band Width Test Data CH-Low (5745 MHz)

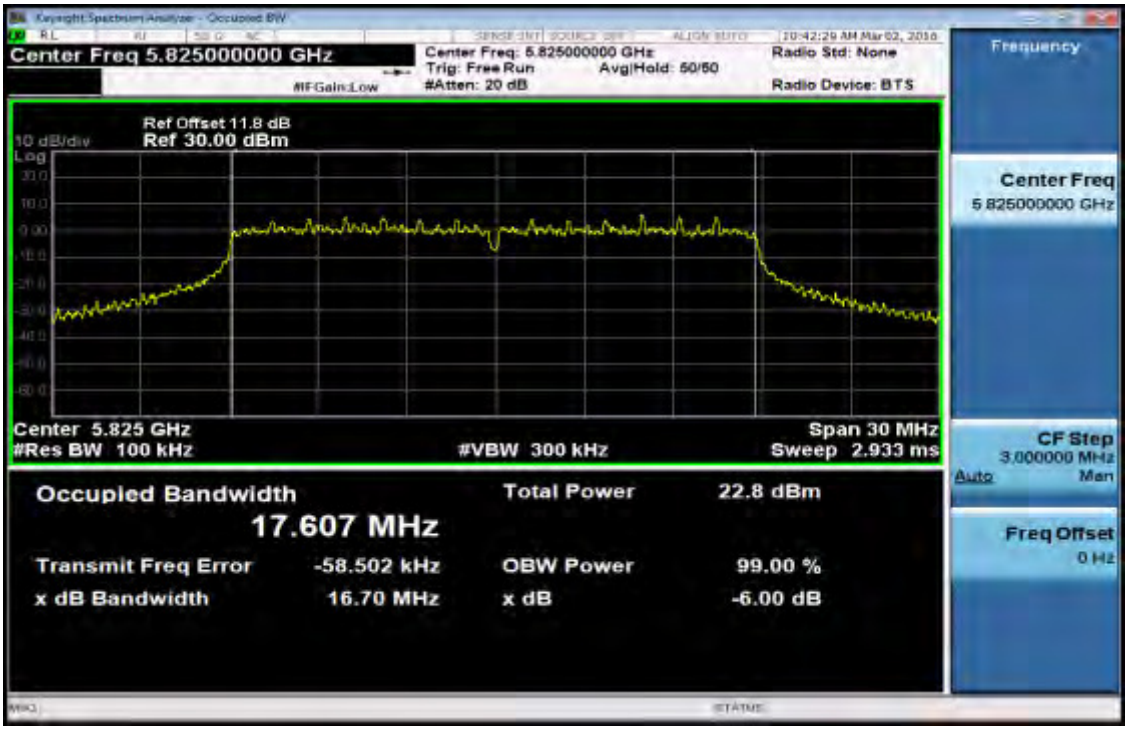


6dB Band Width Test Data CH-Mid (5785 MHz)



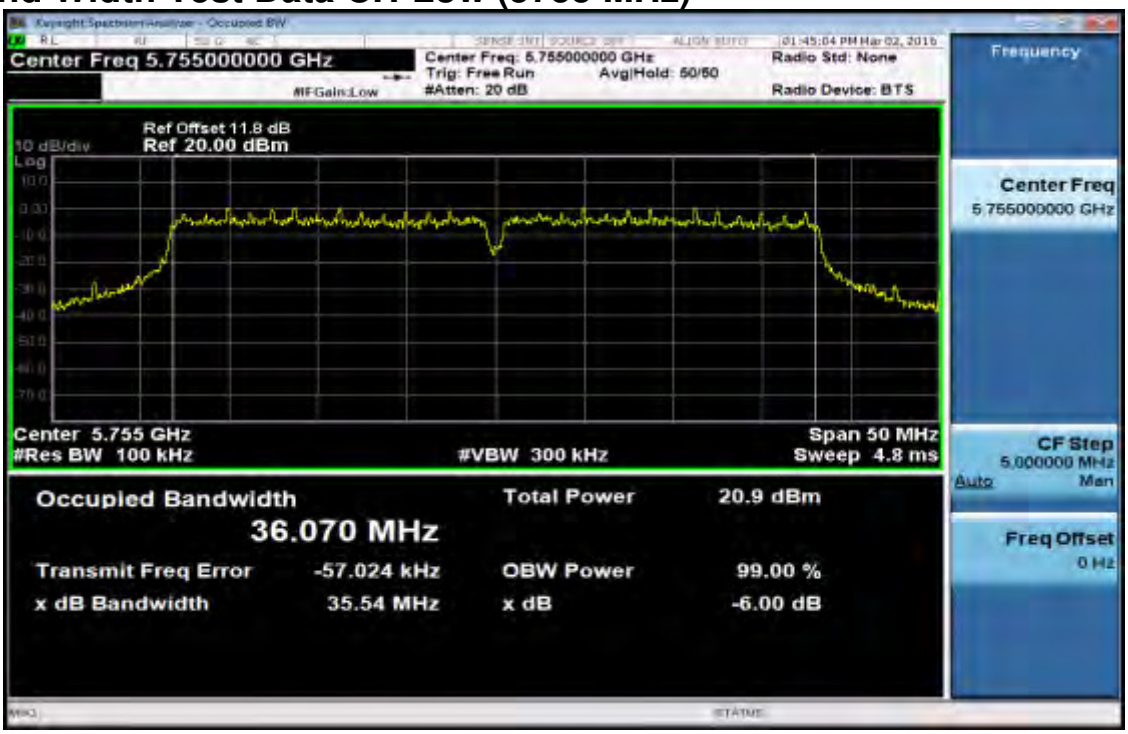
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6dB Band Width Test Data CH-High (5825 MHz)

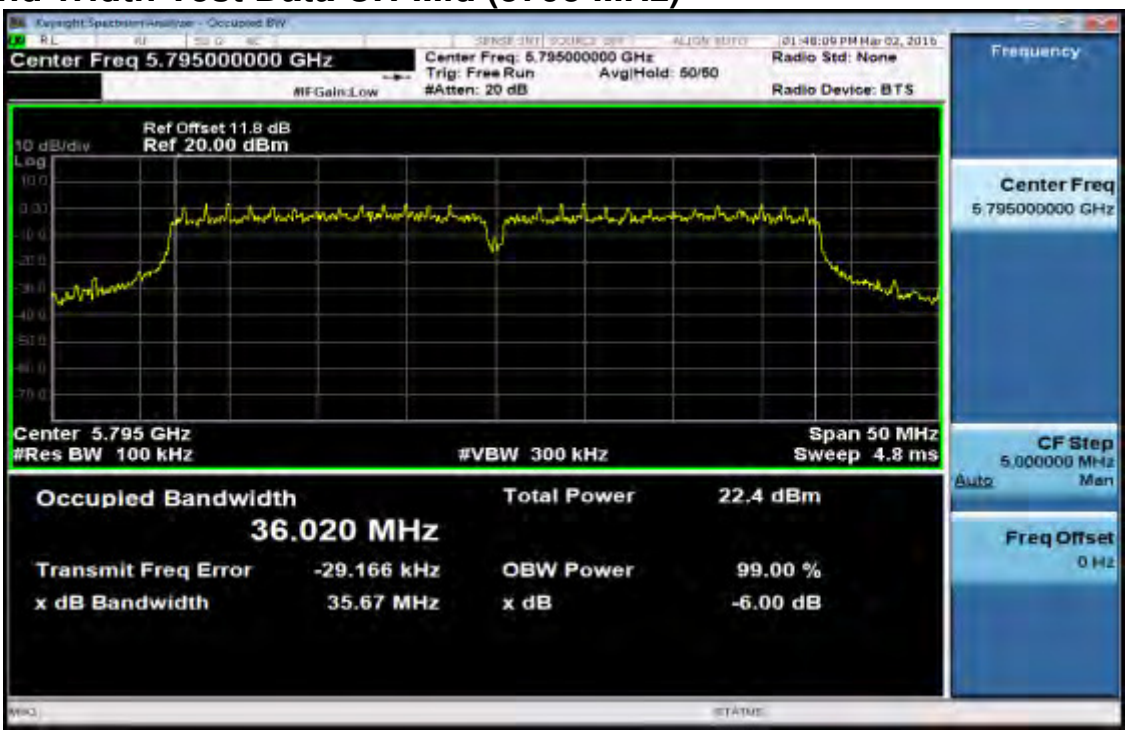


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802.11n_HT40, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5755 MHz)

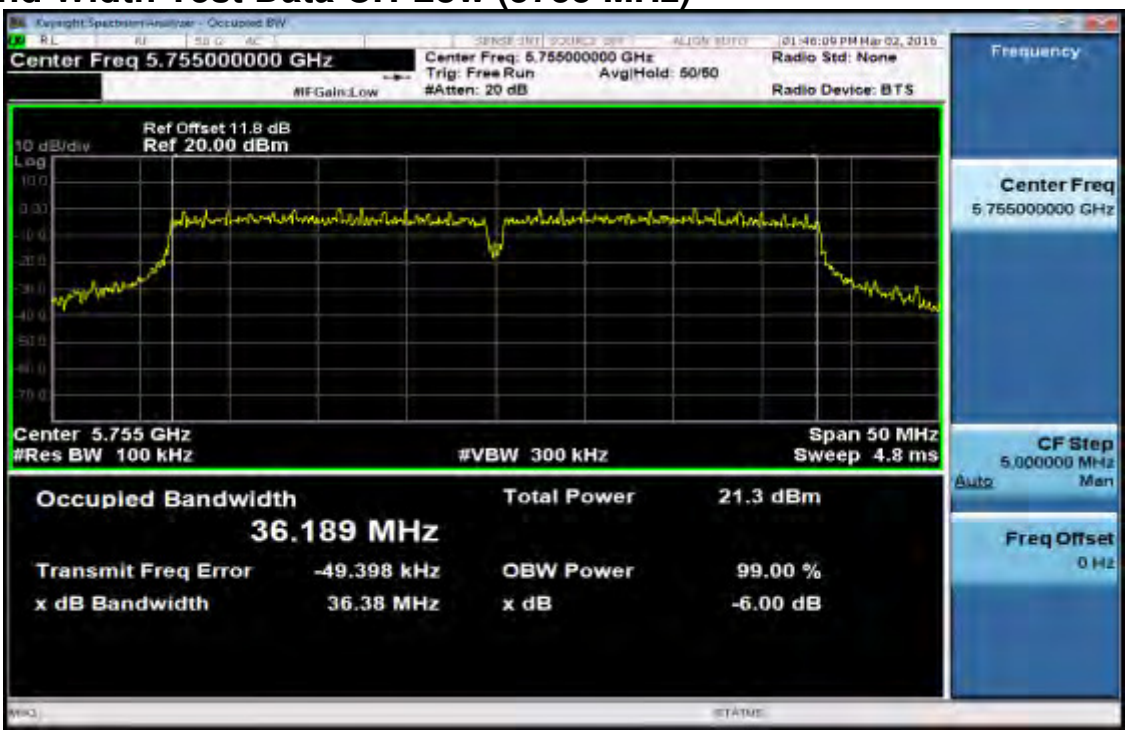


6dB Band Width Test Data CH-Mid (5795 MHz)

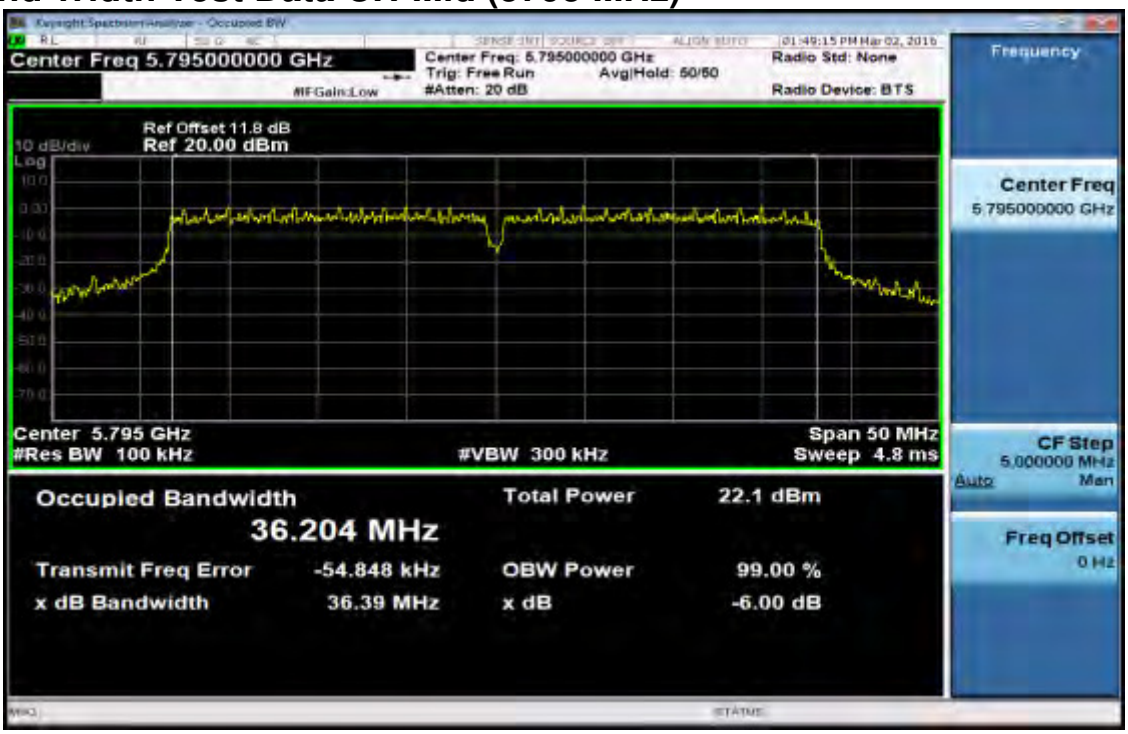


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802.11n_HT40, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5755 MHz)

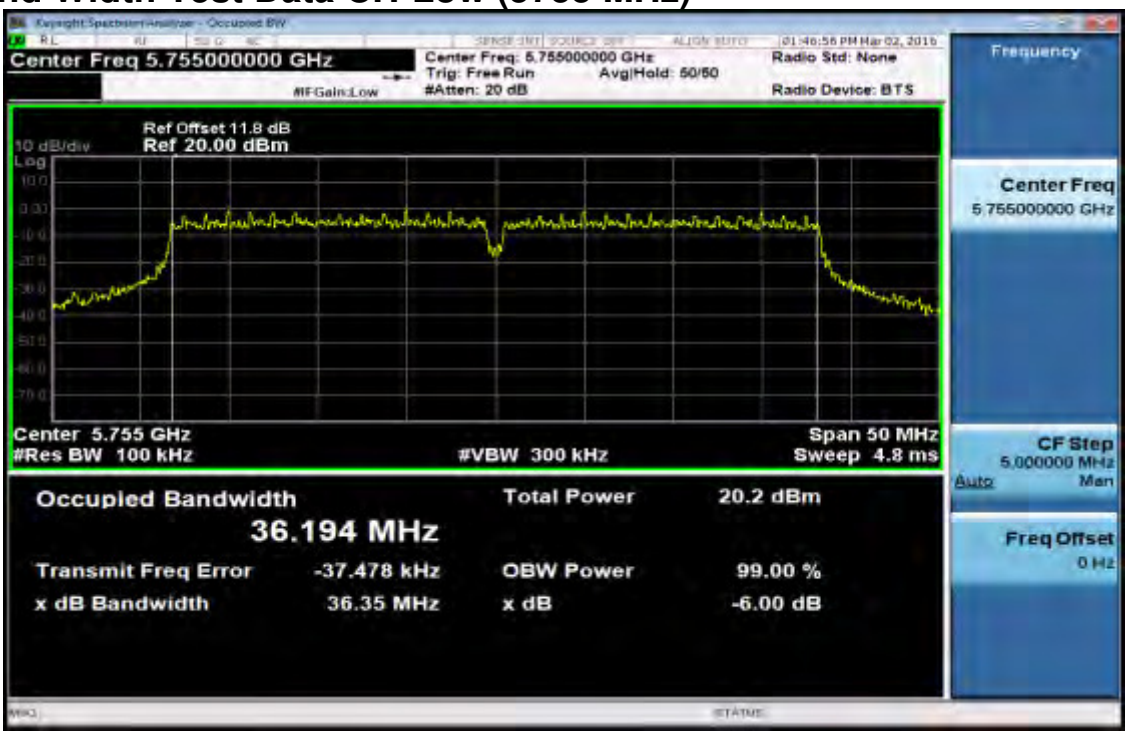


6dB Band Width Test Data CH-Mid (5795 MHz)

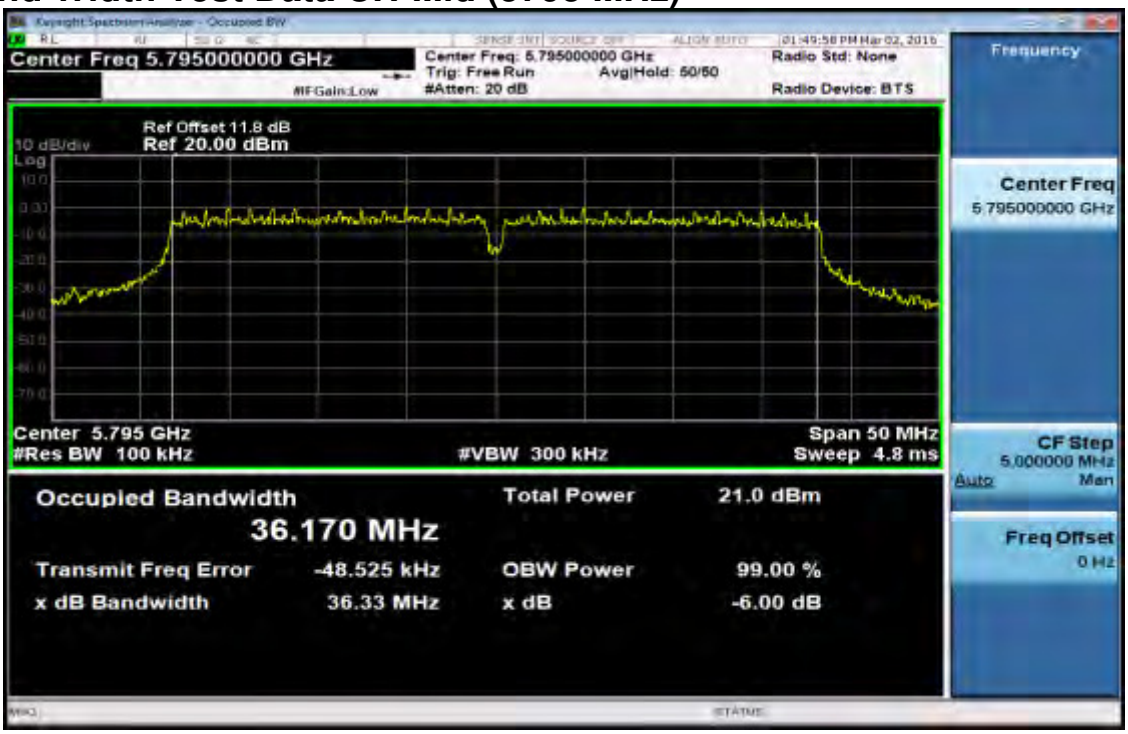


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802.11n_HT40, 5725~5850 MHz (Aux2)
6dB Band Width Test Data CH-Low (5755 MHz)

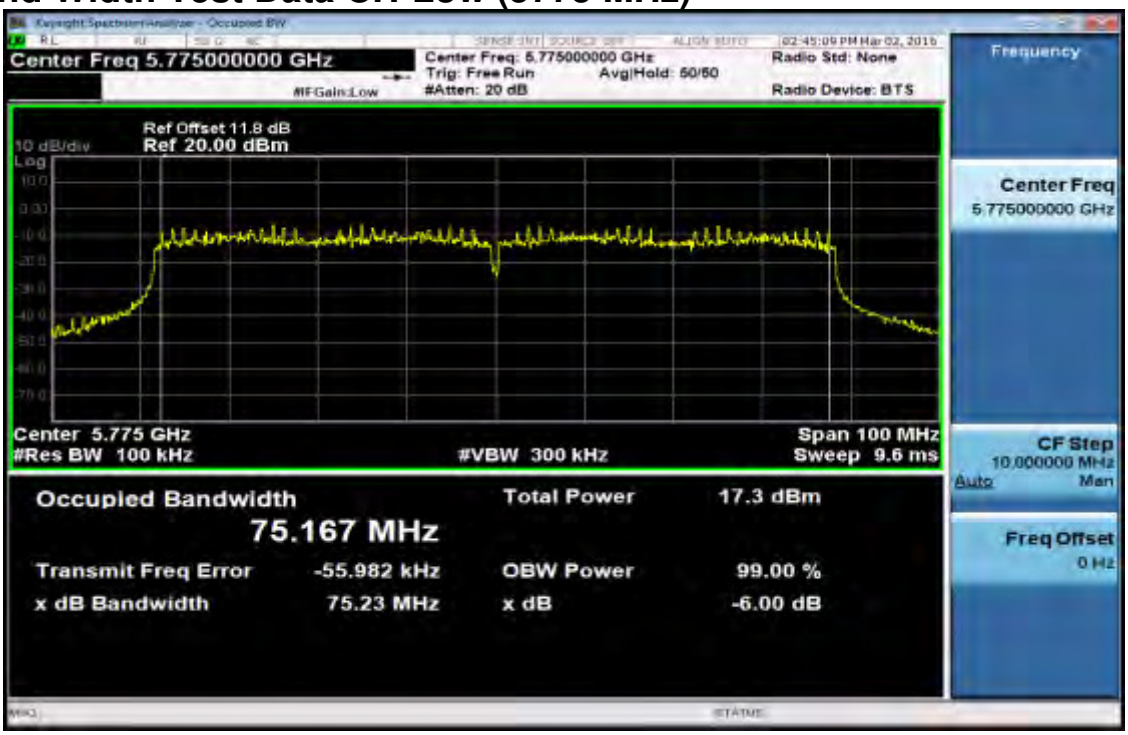


6dB Band Width Test Data CH-Mid (5795 MHz)

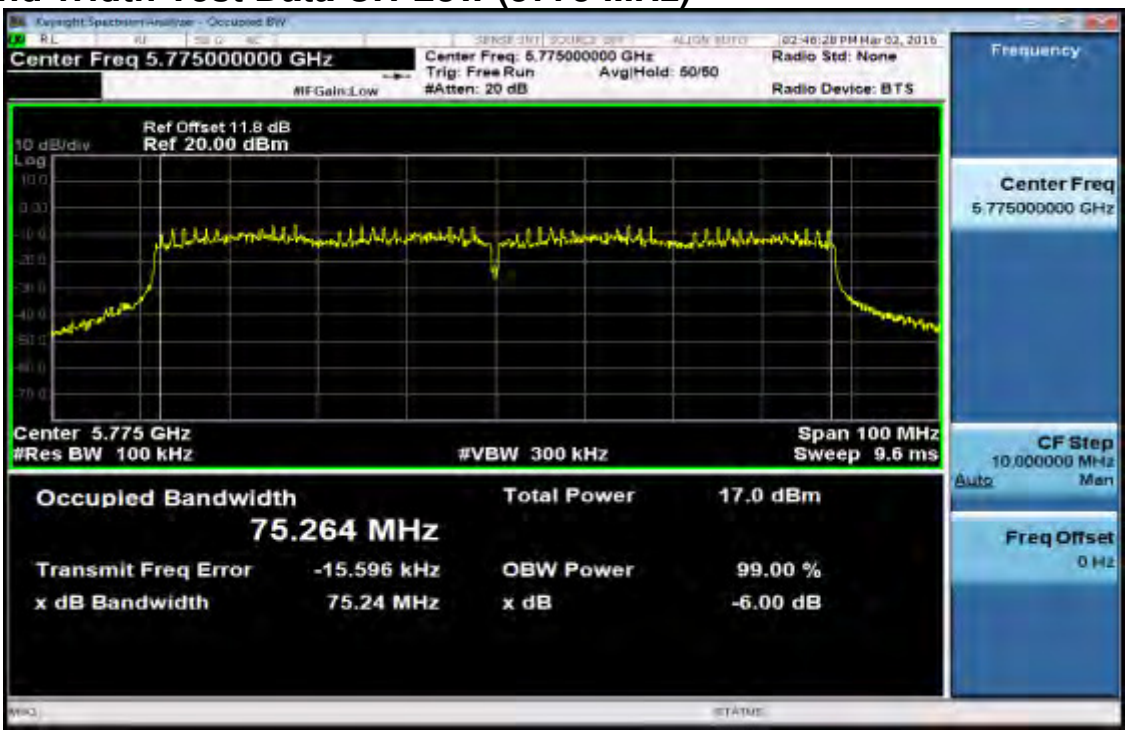


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802.11ac VHT80, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5775 MHz)

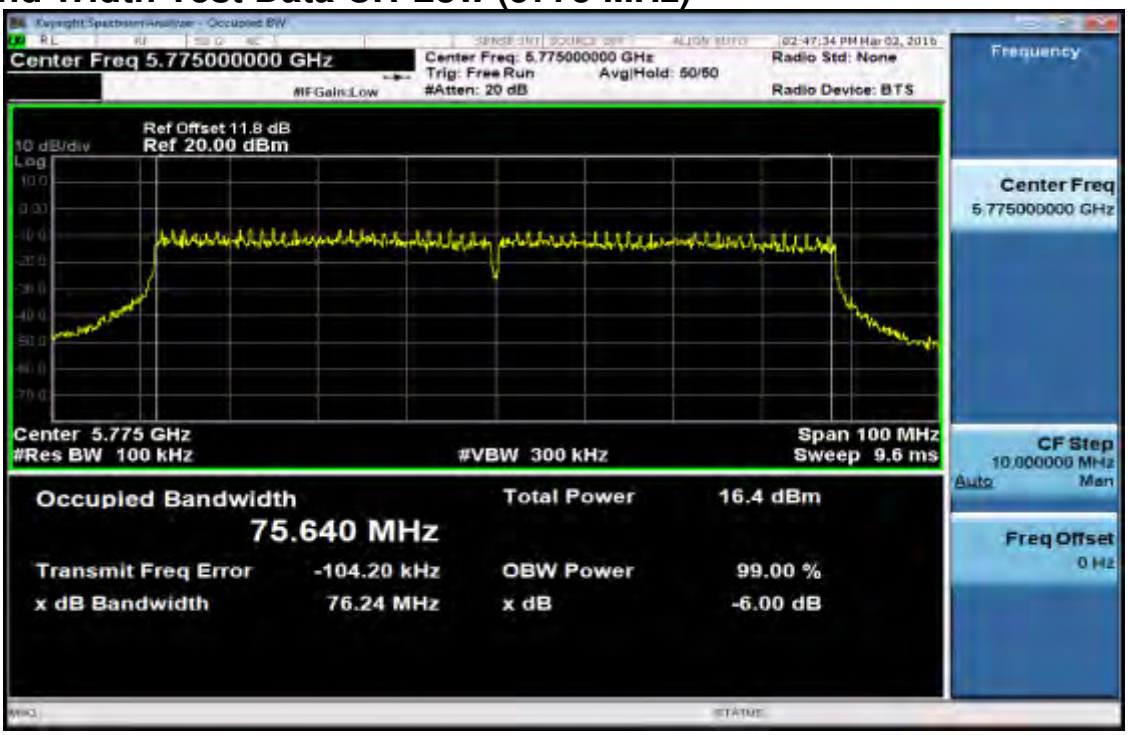


802.11ac VHT80, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5775 MHz)



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



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

OPERZTION Band	EUT CATEGORY	LIMIT
U-NII-1		

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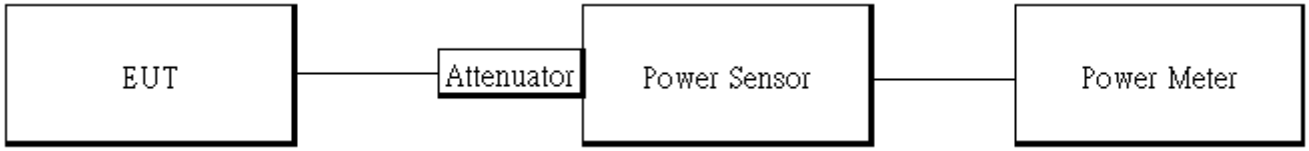
9.2 Measurement Procedure

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 v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1	CHAIN 2				
36	5180	7.63	7.68	7.37	12.33	17.113	20.21	PASS
44	5220	7.83	7.93	7.04	12.39	17.334	20.21	PASS
48	5240	8.01	7.62	7.21	**12.40**	17.365	20.21	PASS
52	5260	12.63	11.99	11.11	16.73	47.048	20.21 or 11+10log(B) = 24.21	PASS
60	5300	12.67	11.59	11.61	**16.76**	47.402	20.21 or 11+10log(B) = 24.17	PASS
64	5320	12.13	11.75	11.72	16.64	46.152	20.21 or 11+10log(B) = 24.09	PASS
100	5500	14.52	13.97	12.99	18.64	73.167	20.21 or 11+10log(B) = 24.24	PASS
116	5580	14.12	13.96	13.3	18.58	72.091	20.21 or 11+10log(B) = 24.25	PASS
140	5700	14.36	14.02	13.51	**18.75**	74.963	20.21 or 11+10log(B) = 24.19	PASS
149	5745	14.7	14.93	14.06	19.35	86.098	26.23	PASS
157	5785	16.38	16.44	15.1	20.79	119.866	26.23	PASS
165	5825	16.34	16.37	15.25	**20.79**	119.900	26.23	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1	CHAIN 2				
36	5180	8.2	7.9	7.63	**12.69**	18.567	20.21	PASS
44	5220	7.89	8.12	7.4	12.58	18.134	20.21	PASS
48	5240	8.17	7.74	7.43	12.56	18.038	20.21	PASS
52	5260	7.85	7.54	6.99	**12.25**	16.771	20.21 or 11+10log(B) = 24.29	PASS
60	5300	7.72	7.02	7.1	12.06	16.079	20.21 or 11+10log(B) = 24.23	PASS
64	5320	7.31	6.73	7.33	11.90	15.500	20.21 or 11+10log(B) = 24.39	PASS
100	5500	11.3	10.99	10.49	15.71	37.244	20.21 or 11+10log(B) = 24.17	PASS
116	5580	11.23	10.73	10.83	15.71	37.210	20.21 or 11+10log(B) = 24.33	PASS
140	5700	10.98	11.09	10.95	**15.78**	37.829	20.21 or 11+10log(B) = 24.22	PASS
149	5745	14.87	15.11	14.22	19.52	89.548	26.23	PASS
157	5785	16.78	16.93	15.65	**21.26**	133.689	26.23	PASS
165	5825	16.41	16.61	15.37	20.93	124.001	26.23	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1	CHAIN 2				
38	5190	7.53	7.63	7.02	12.17	16.492	20.21	PASS
46	5230	7.68	7.78	7.05	**12.29**	16.929	20.21	PASS
54	5270	8.9	8.53	8.03	**13.27**	21.244	20.21 or 11+10log(B) = 27.28	PASS
62	5310	8.58	7.94	8.17	13.01	19.996	20.21 or 11+10log(B) = 27.35	PASS
102	5510	11.76	11.22	10.92	16.09	40.600	20.21 or 11+10log(B) = 27.34	PASS
110	5550	11.35	11.04	11.05	15.92	39.087	20.21 or 11+10log(B) = 27.21	PASS
134	5670	11.7	11.47	11.3	**16.26**	42.309	20.21 or 11+10log(B) = 27.31	PASS
151	5755	12.4	12.31	11.74	16.93	49.328	26.23	PASS
159	5795	15.29	15.36	14.25	**19.77**	94.770	26.23	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1	CHAIN 2				
36	5180	8.17	8.18	7.36	**12.69**	18.583	20.21	PASS
44	5220	8.09	8.02	7.2	12.56	18.028	20.21	PASS
48	5240	8.1	7.73	7.28	12.49	17.731	20.21	PASS
52	5260	7.83	7.51	6.97	**12.22**	16.681	20.21 or 11+10log(B) = 24.29	PASS
60	5300	7.61	6.93	7.05	11.98	15.769	20.21 or 11+10log(B) = 24.23	PASS
64	5320	7.28	6.7	7.25	11.86	15.332	20.21 or 11+10log(B) = 24.39	PASS
100	5500	11.3	11.13	10.53	**15.77**	37.759	20.21 or 11+10log(B) = 24.17	PASS
116	5580	11.18	10.68	10.77	15.65	36.757	20.21 or 11+10log(B) = 24.33	PASS
140	5700	11.04	11.02	10.87	15.75	37.571	20.21 or 11+10log(B) = 24.22	PASS
149	5745	16.68	16.7	15.61	21.13	129.724	26.23	PASS
157	5785	16.72	16.89	15.58	**21.21**	131.996	26.23	PASS
165	5825	16.36	16.56	15.31	20.88	122.504	26.23	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1	CHAIN 2				
38	5190	7.5	7.55	6.75	12.05	16.043	20.21	PASS
46	5230	7.72	7.78	6.95	**12.27**	16.868	20.21	PASS
54	5270	8.88	8.57	7.93	**13.25**	21.130	20.21 or 11+10log(B) = 27.28	PASS
62	5310	8.51	7.86	8.1	12.94	19.662	20.21 or 11+10log(B) = 27.35	PASS
102	5510	11.65	11.13	10.87	16.00	39.812	20.21 or 11+10log(B) = 27.34	PASS
110	5550	11.35	11.07	10.97	15.90	38.942	20.21 or 11+10log(B) = 27.21	PASS
134	5670	11.75	11.52	11.24	**16.28**	42.457	20.21 or 11+10log(B) = 27.31	PASS
151	5755	15.12	15.26	14.53	**19.75**	94.462	26.23	PASS
159	5795	15.3	15.33	14.22	19.75	94.428	26.23	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1	CHAIN 2				
42	5210	8.45	8.01	7.07	12.65	18.416	20.21	PASS
58	5290	7.57	7.49	7.05	12.15	16.395	20.21 or 11+10log(B) = 30.42	PASS
106	5530	7.64	7.01	7.16	12.05	16.031	20.21 or 11+10log(B) = 30.44	PASS
122	5610	12.35	11.71	11.95	16.78	47.672	20.21 or 11+10log(B) = 30.38	PASS
155	5775	6.81	6.92	6.41	11.49	14.093	26.23	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY	LIMIT
U-NII-1		

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10.2 Measurement Procedure

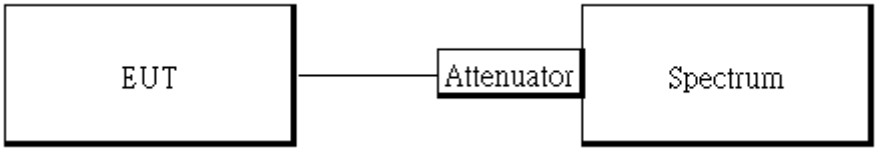
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band**:
   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. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

10.3 Measurement Equipment Used

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

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-2.01	13.23	-15.24
5220	-2.19	13.23	-15.42
5240	-1.90	13.23	-15.13
5260	4.31	7.23	-2.92
5300	3.77	7.23	-3.46
5320	3.38	7.23	-3.85
5500	4.82	7.23	-2.41
5580	5.04	7.23	-2.19
5700	4.90	7.23	-2.33
5745	13.02	26.23	-13.21
5785	14.55	26.23	-11.68
5825	13.87	26.23	-12.36

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-2.44	13.23	-15.67
5220	-3.24	13.23	-16.47
5240	-3.14	13.23	-16.37
5260	-4.48	7.23	-11.71
5300	-3.06	7.23	-10.29
5320	-4.05	7.23	-11.28
5500	-1.47	7.23	-8.70
5580	-0.55	7.23	-7.78
5700	0.43	7.23	-6.80
5745	15.66	26.23	-10.57
5785	16.21	26.23	-10.02
5825	15.09	26.23	-11.14

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POWER DENSITY 802.11n HT40 MODE			
Frequency	PPSD	Limit	Margin
5190	-7.41	13.23	-20.64
5230	-9.98	13.23	-23.21
5270	-8.01	7.23	-15.24
5310	-9.89	7.23	-17.12
5510	-6.54	7.23	-13.77
5550	-6.6	7.23	-13.83
5670	-5.79	7.23	-13.02
5755	10.51	26.23	-15.72
5795	11.29	26.23	-14.94

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-25.73	13.23	-38.96
5290	-24.68	7.23	-31.91
5530	-24.59	7.23	-31.82
5610	-21.92	7.23	-29.15
5775	2.37	26.23	-23.86

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

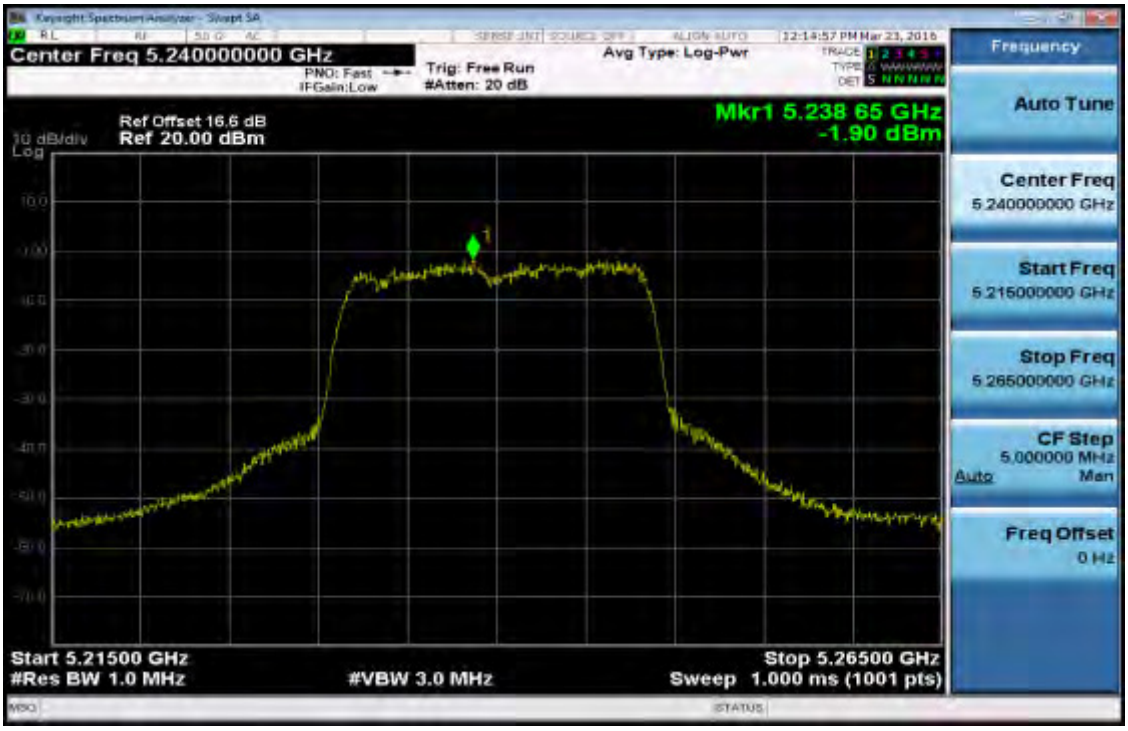


Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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



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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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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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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)

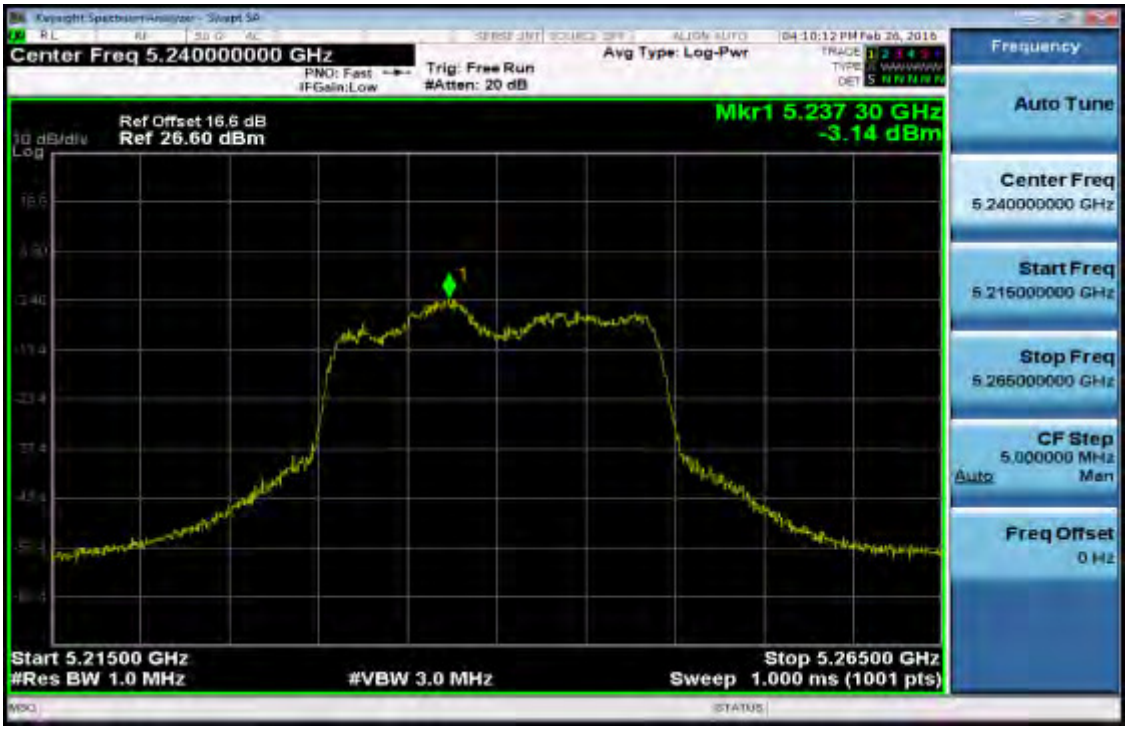


Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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



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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)



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



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



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



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



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



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802.11n HT40, 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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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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



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



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



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



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



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



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



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

11.1 Standard Applicable

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

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

2. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

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

APPLICABLE TO	**LIMIT**	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**FIELD STRENGTH AT 3m**
15.407(b)(1)	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)

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 (dBμV/m) = 20 log Emission level (dBμV/m)

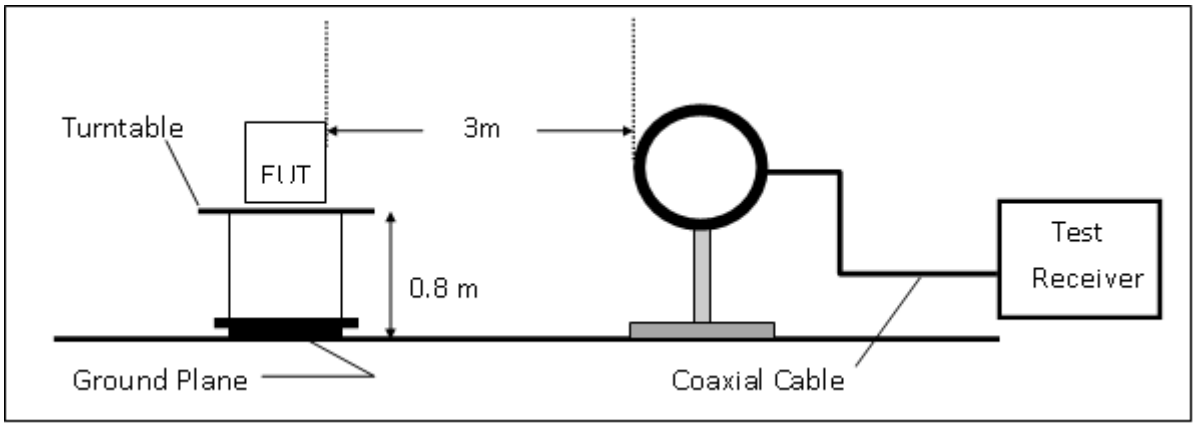
11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/28/2016	01/27/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/02/2015	07/01/2016
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017

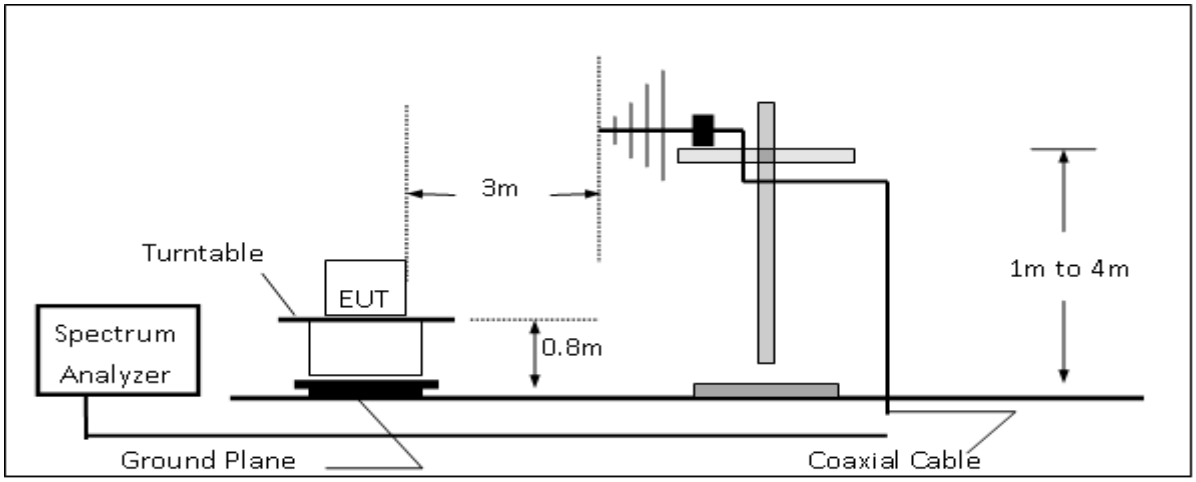
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11.3 Test SET-UP

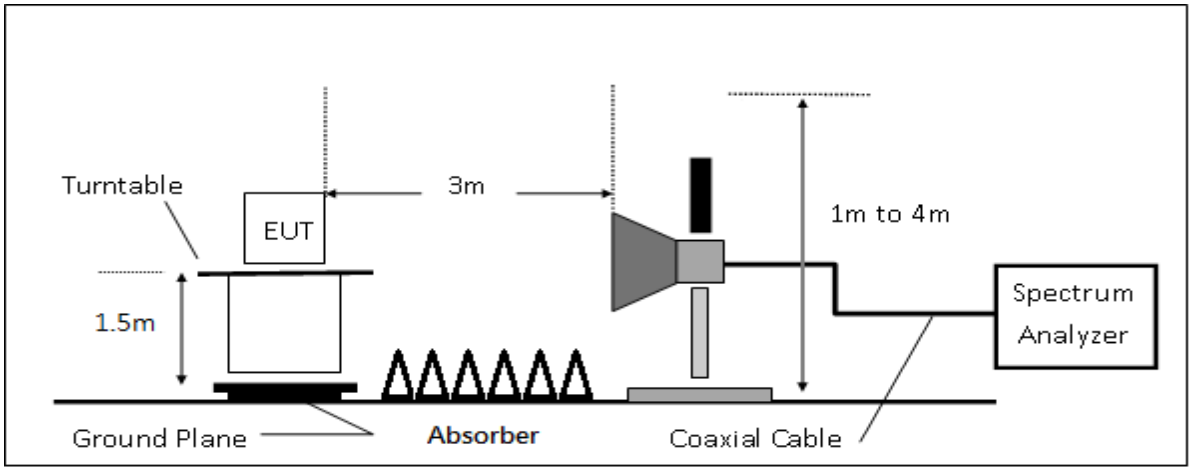
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

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

FS = RA + AF + CL - AG

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

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

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

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Note :

"**F**" : denotes Fundamental Frequency. ; "**H**" : denotes Harmonic Frequency.

"**E**" : denotes Band Edge Frequency. ; "**S**" : denotes Spurious Frequency.

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

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

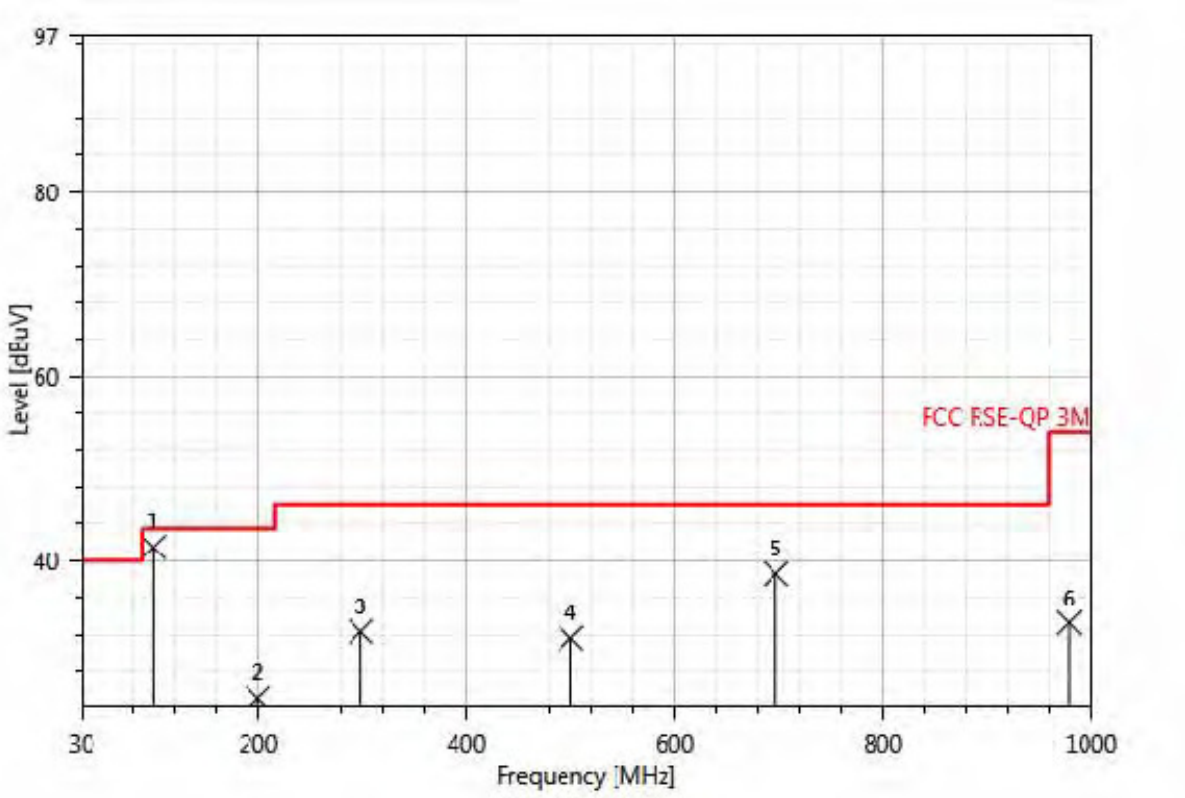
11.7 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result
Below 1GHz Worst-Case Data:
802.11a 5150~5250 MHz

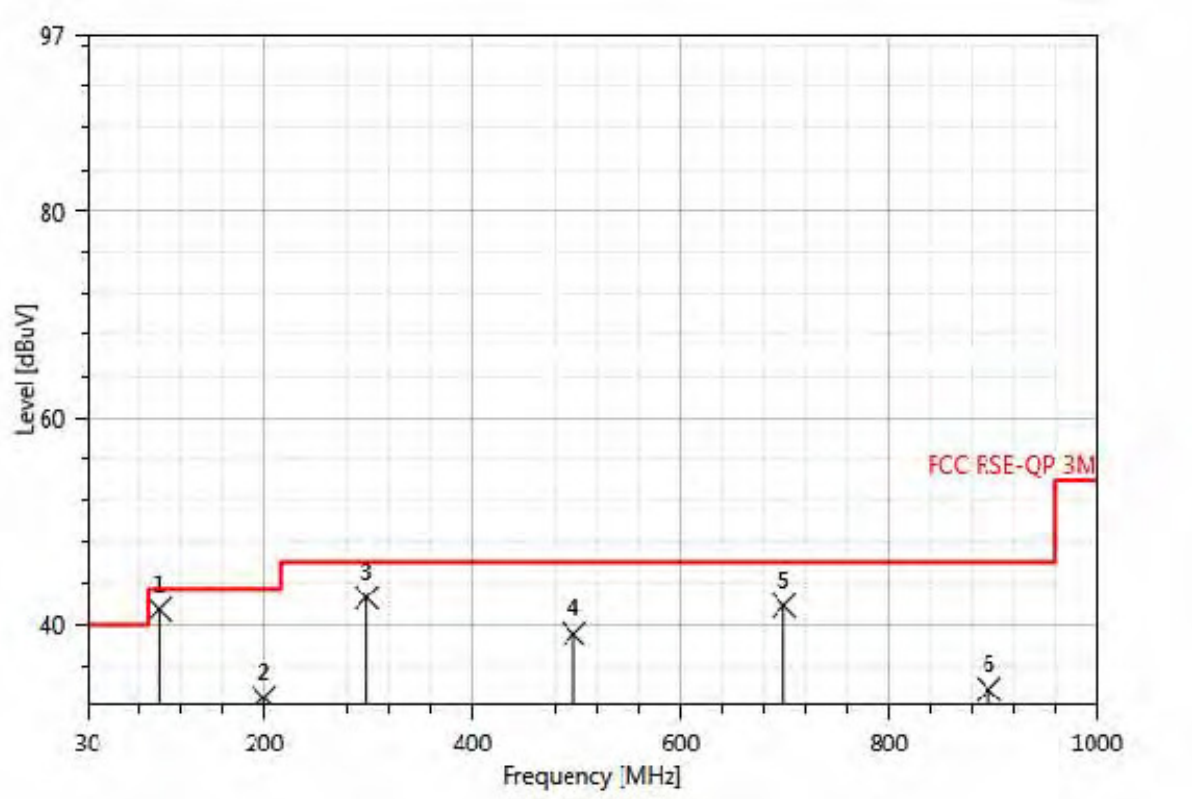
Operation Mode :	802.11aB1	Test Date :	03/21/2016 09:05:39
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	41.48	54.15	-12.67	43.50	-2.02
199.75	S	25.14	34.74	-9.60	43.50	-18.36
298.69	S	32.35	38.30	-5.95	46.00	-13.65
500.45	S	31.64	34.33	-2.69	46.00	-14.36
697.36	S	38.59	37.23	1.36	46.00	-7.41
978.66	S	33.27	27.00	6.28	54.00	-20.73

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Operation Mode :	802.11aB1	Test Date :	03/21/2016 09:06:07
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

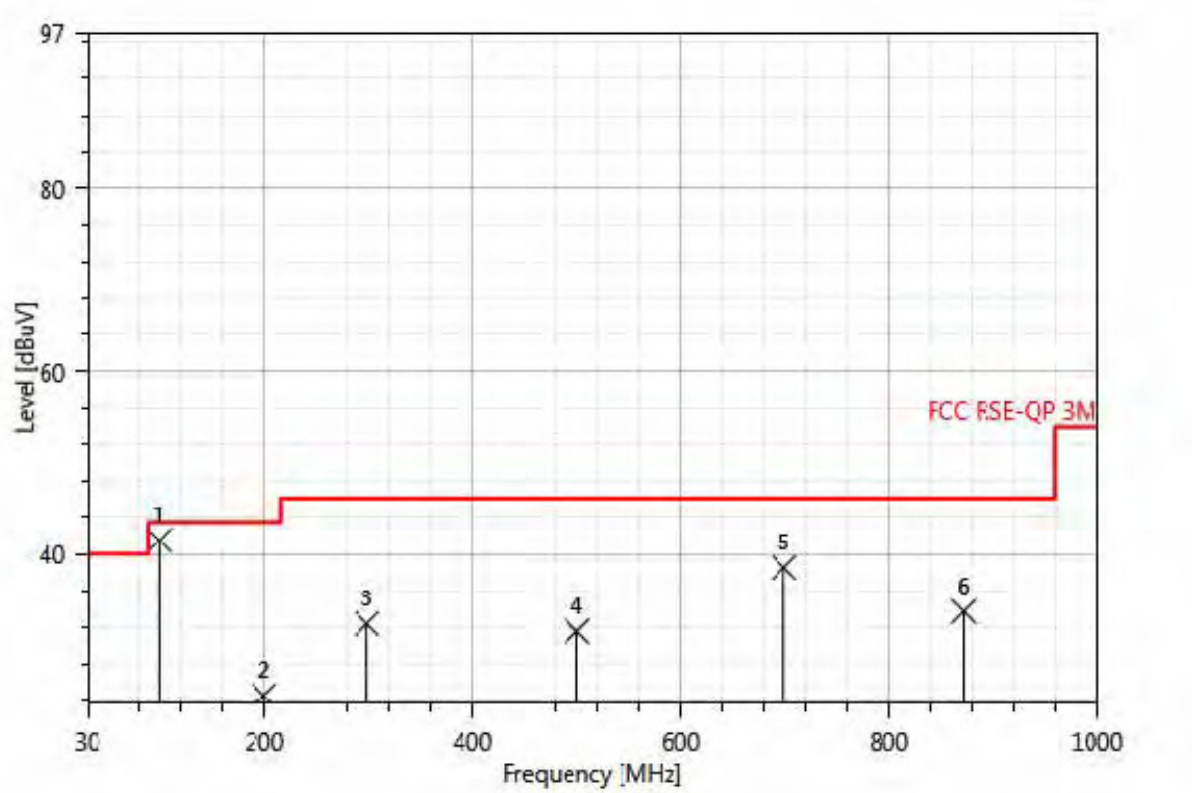


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	41.46	54.12	-12.67	43.50	-2.04
199.75	S	32.96	42.57	-9.60	43.50	-10.54
298.69	S	42.61	48.56	-5.95	46.00	-3.39
497.54	S	39.11	41.50	-2.39	46.00	-6.89
699.30	S	41.82	40.38	1.44	46.00	-4.18
896.21	S	33.74	29.15	4.59	46.00	-12.26

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802.11a 5250~5350 MHz

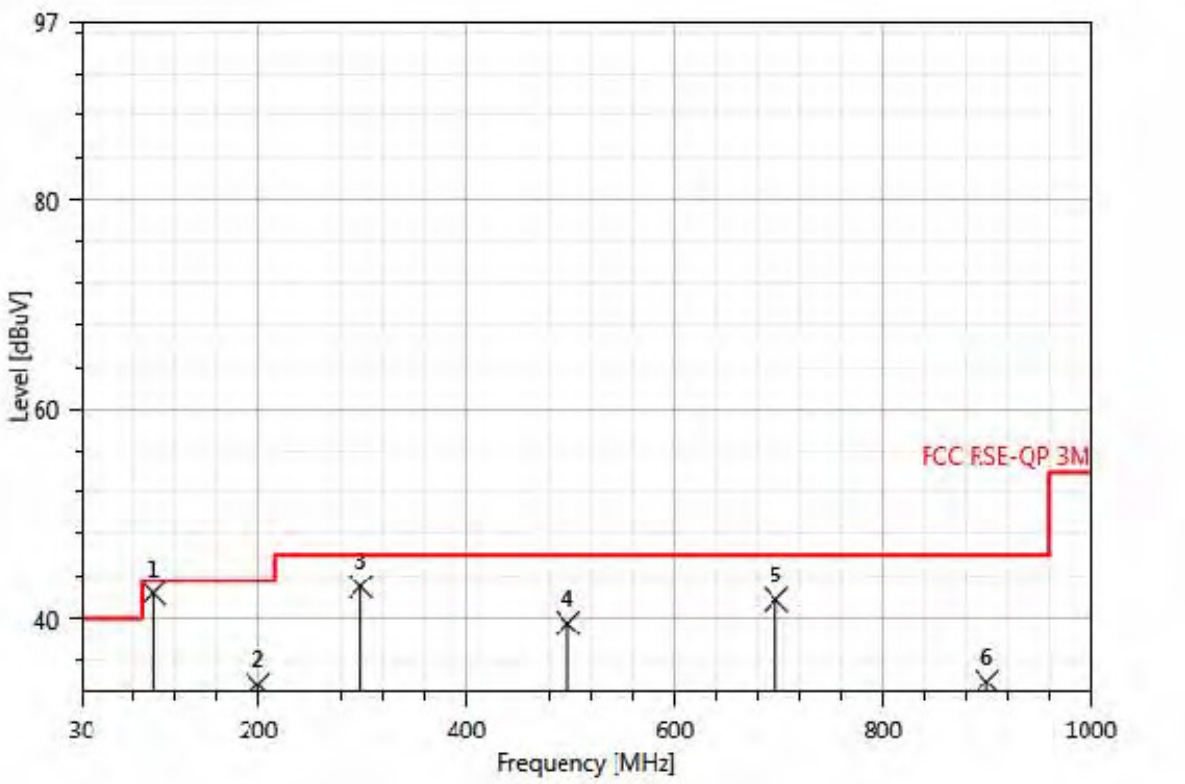
Operation Mode :	802.11aB2	Test Date :	03/21/2016 09:05:41
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	41.54	54.20	-12.67	43.50	-1.96
199.75	S	24.57	34.18	-9.60	43.50	-18.93
298.69	S	32.47	38.42	-5.95	46.00	-13.53
500.45	S	31.65	34.34	-2.69	46.00	-14.35
699.30	S	38.55	37.10	1.44	46.00	-7.45
871.96	S	33.78	28.72	5.06	46.00	-12.22

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Operation Mode :	802.11aB2	Test Date :	03/21/2016 09:06:15
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

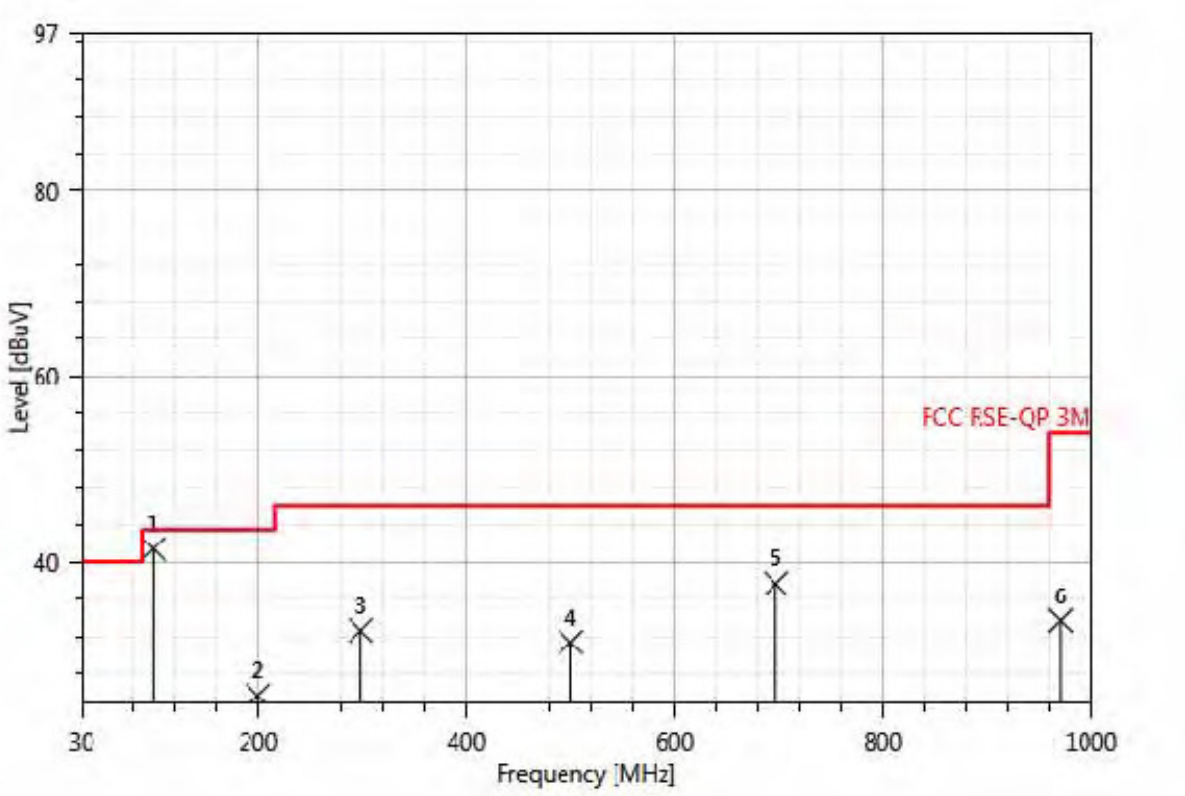


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	42.36	55.03	-12.67	43.50	-1.14
199.75	S	33.65	43.25	-9.60	43.50	-9.85
298.69	S	43.00	48.95	-5.95	46.00	-3.00
497.54	S	39.51	41.89	-2.39	46.00	-6.49
697.36	S	41.74	40.38	1.36	46.00	-4.26
900.09	S	33.91	29.27	4.64	46.00	-12.09

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802.11a, 5470~5725 MHz

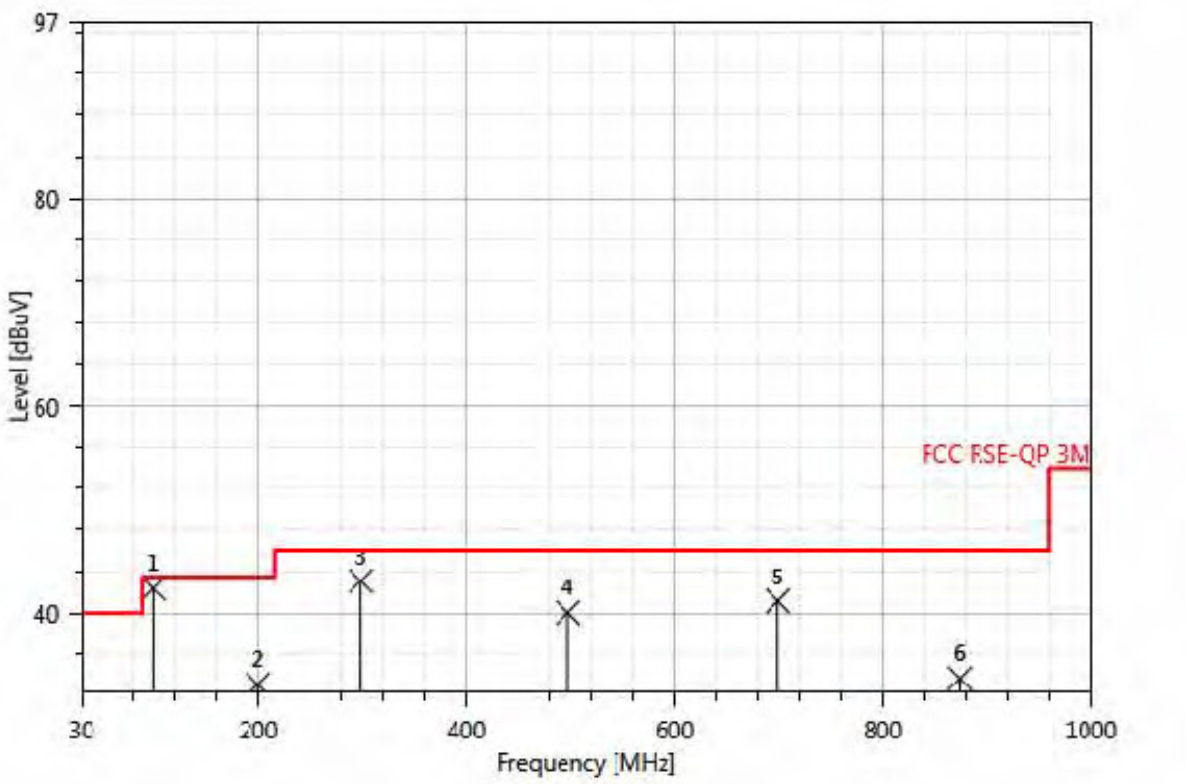
Operation Mode :	802.11aB3	Test Date :	03/21/2016 09:05:43
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	41.41	54.08	-12.67	43.50	-2.09
199.75	S	25.61	35.21	-9.60	43.50	-17.89
298.69	S	32.63	38.58	-5.95	46.00	-13.37
500.45	S	31.36	34.05	-2.69	46.00	-14.64
697.36	S	37.67	36.31	1.36	46.00	-8.33
970.90	S	33.69	27.41	6.28	54.00	-20.31

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Operation Mode :	802.11aB3	Test Date :	03/21/2016 09:06:25
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

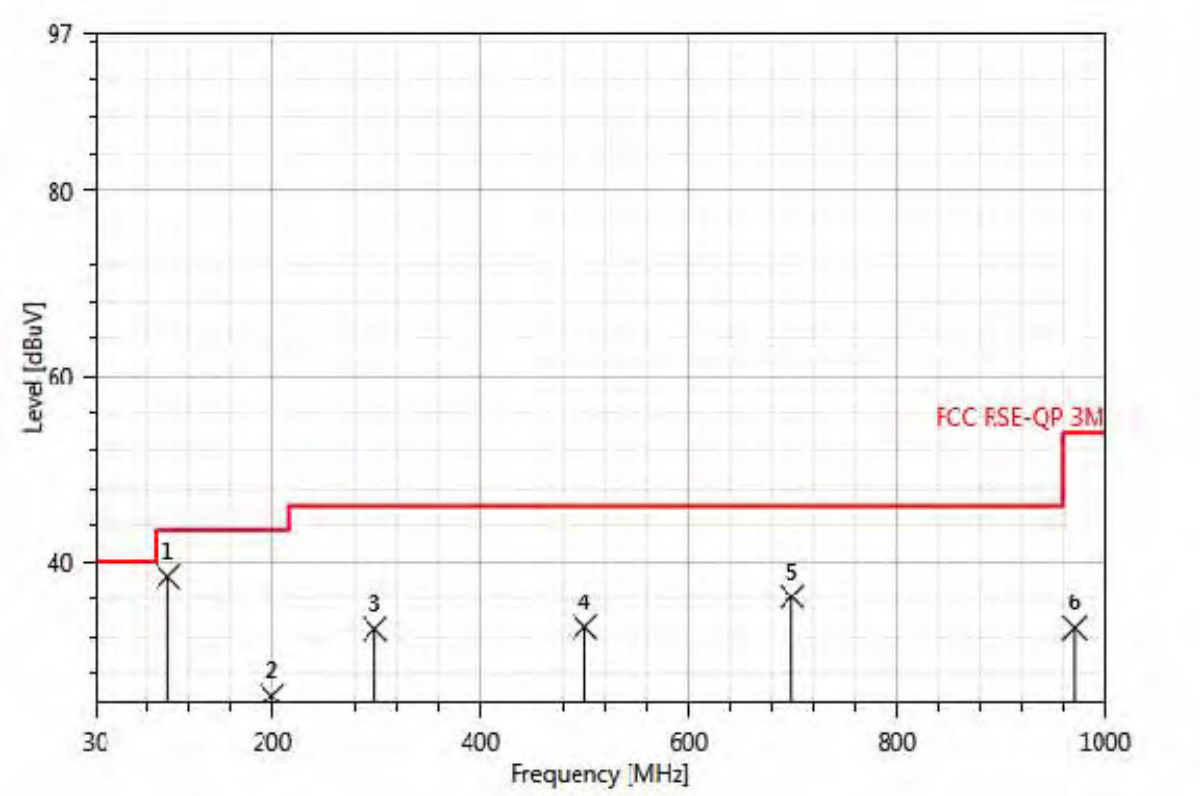


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	42.35	55.02	-12.67	43.50	-1.15
199.75	S	33.12	42.72	-9.60	43.50	-10.38
298.69	S	43.09	49.05	-5.95	46.00	-2.91
497.54	S	40.04	42.43	-2.39	46.00	-5.96
699.30	S	41.16	39.71	1.44	46.00	-4.84
873.90	S	33.69	28.79	4.90	46.00	-12.31

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802.11a, 5725~5850 MHz

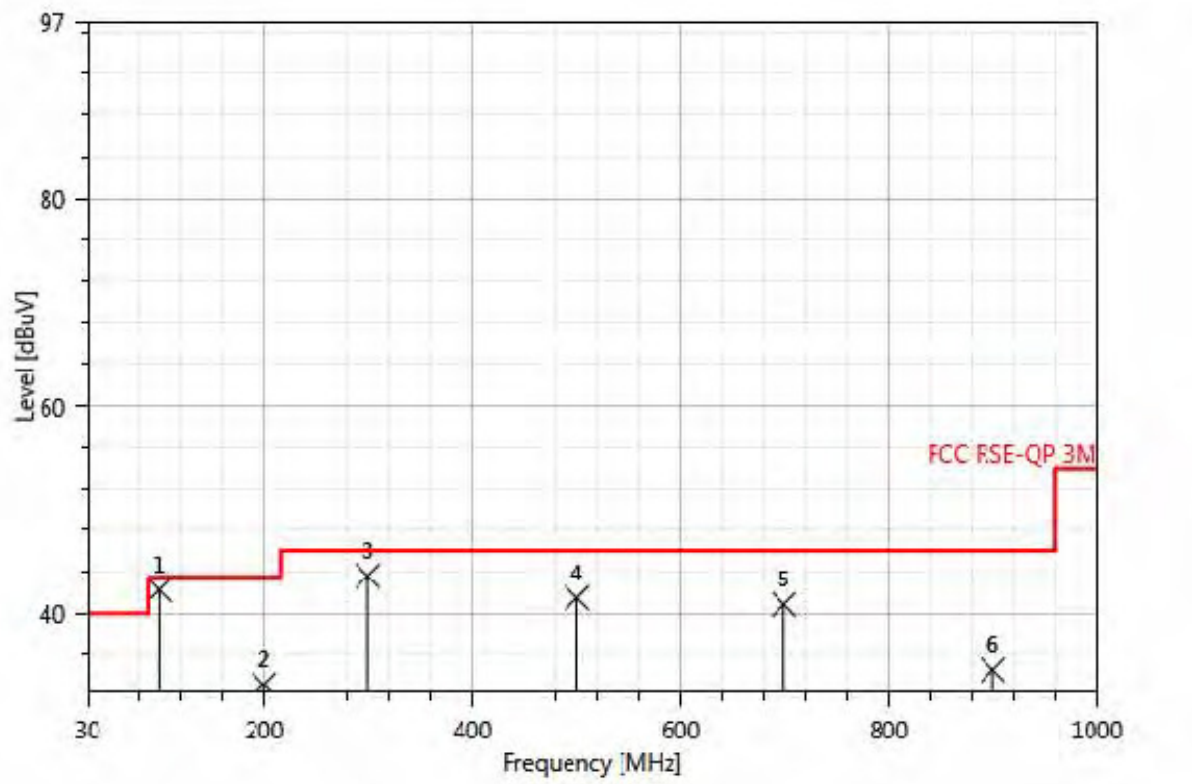
Operation Mode :	802.11aB4	Test Date :	03/21/2016 09:05:45
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	38.46	51.13	-12.67	43.50	-5.04
199.75	S	25.62	35.23	-9.60	43.50	-17.88
298.69	S	32.82	38.77	-5.95	46.00	-13.18
500.45	S	33.04	35.72	-2.69	46.00	-12.96
699.30	S	36.28	34.84	1.44	46.00	-9.72
970.90	S	32.93	26.64	6.28	54.00	-21.07

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Operation Mode :	802.11aB4	Test Date :	03/21/2016 09:06:40
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

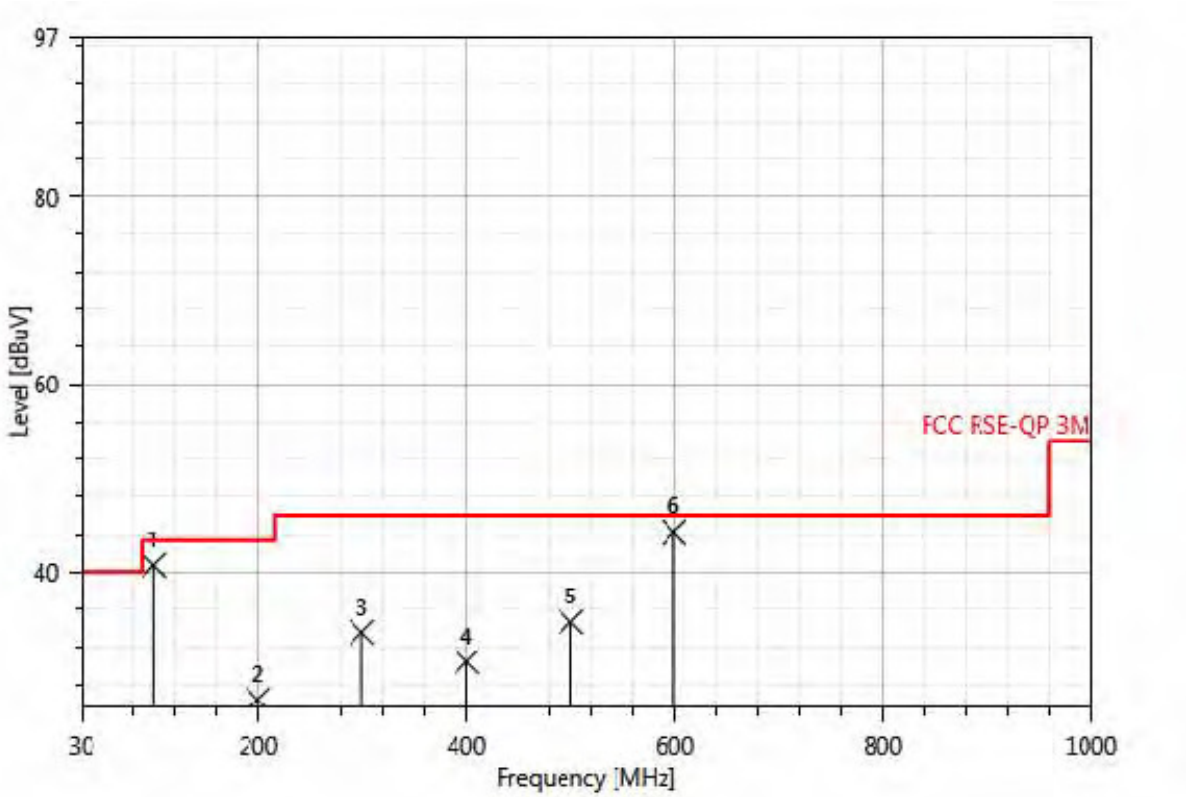


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	42.26	54.93	-12.67	43.50	-1.24
199.75	S	33.15	42.75	-9.60	43.50	-10.35
299.66	S	43.61	49.54	-5.93	46.00	-2.39
500.45	S	41.49	44.17	-2.69	46.00	-4.51
699.30	S	40.86	39.41	1.44	46.00	-5.14
900.09	S	34.58	29.94	4.64	46.00	-11.42

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802.11ac VHT80, 5150~5250 MHz

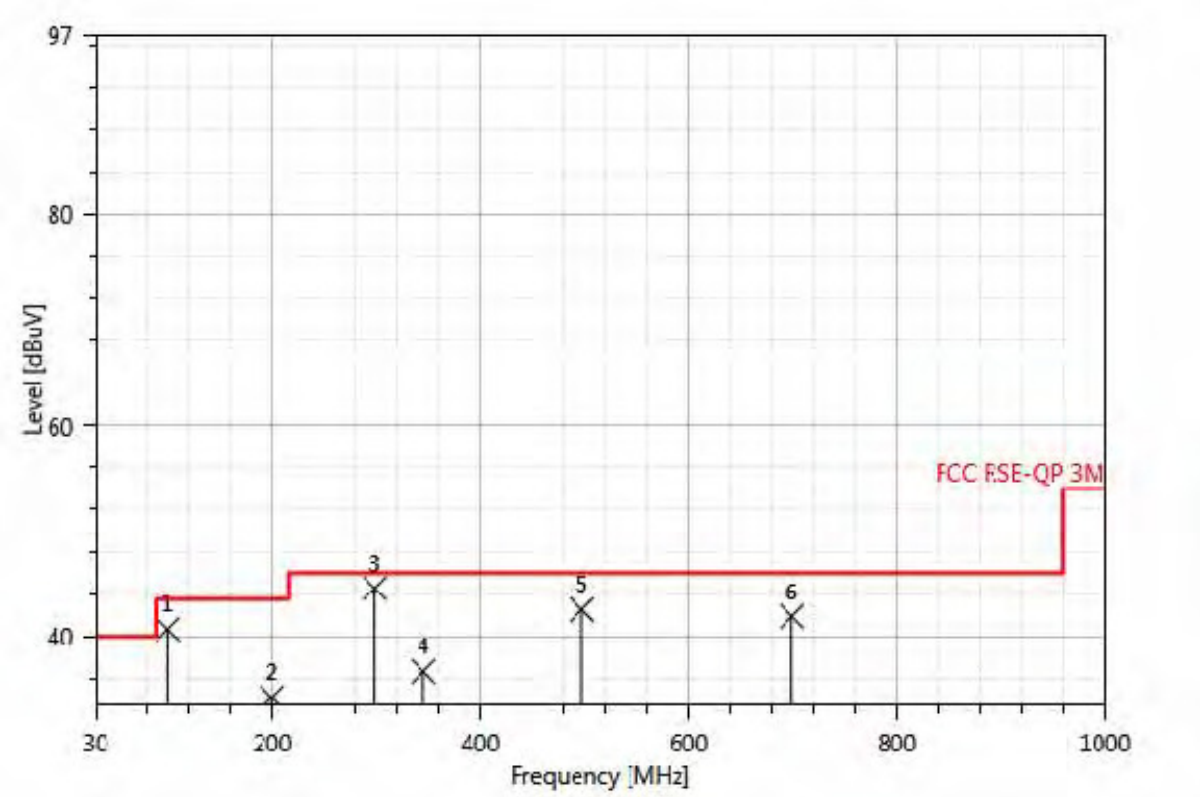
Operation Mode :	802.11ac80B1	Test Date :	03/01/2016 23:01:55
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	40.70	53.37	-12.67	43.50	-2.80
199.75	S	26.42	36.03	-9.60	43.50	-17.08
299.66	S	33.60	39.53	-5.93	46.00	-12.40
400.54	S	30.44	34.38	-3.94	46.00	-15.56
500.45	S	34.68	37.36	-2.69	46.00	-11.32
599.39	S	44.29	44.56	-0.28	46.00	-1.71

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Operation Mode :	802.11ac80B1	Test Date :	03/01/2016 23:01:32
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

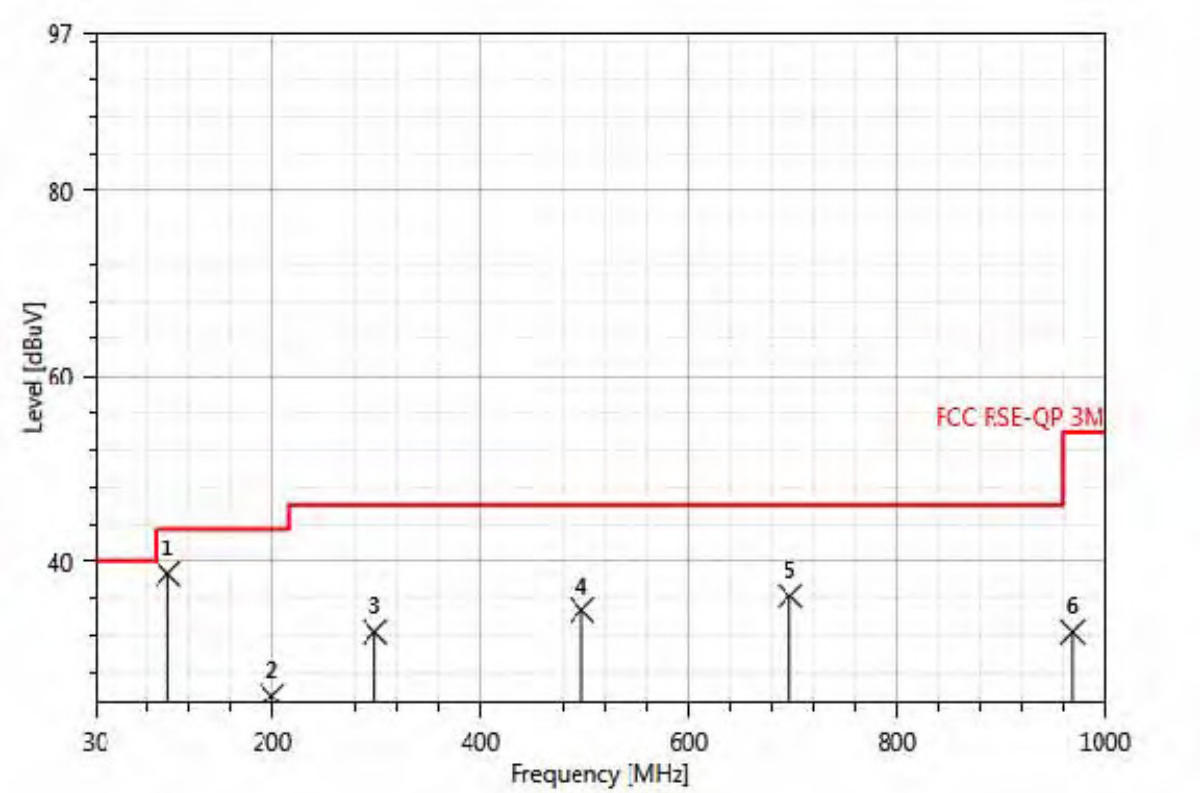


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	40.67	53.34	-12.67	43.50	-2.83
199.75	S	34.21	43.81	-9.60	43.50	-9.29
298.69	S	44.55	50.50	-5.95	46.00	-1.45
345.25	S	36.67	41.76	-5.09	46.00	-9.33
497.54	S	42.52	44.90	-2.39	46.00	-3.48
699.30	S	41.88	40.43	1.44	46.00	-4.12

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802.11ac VHT80, 5250~5350 MHz

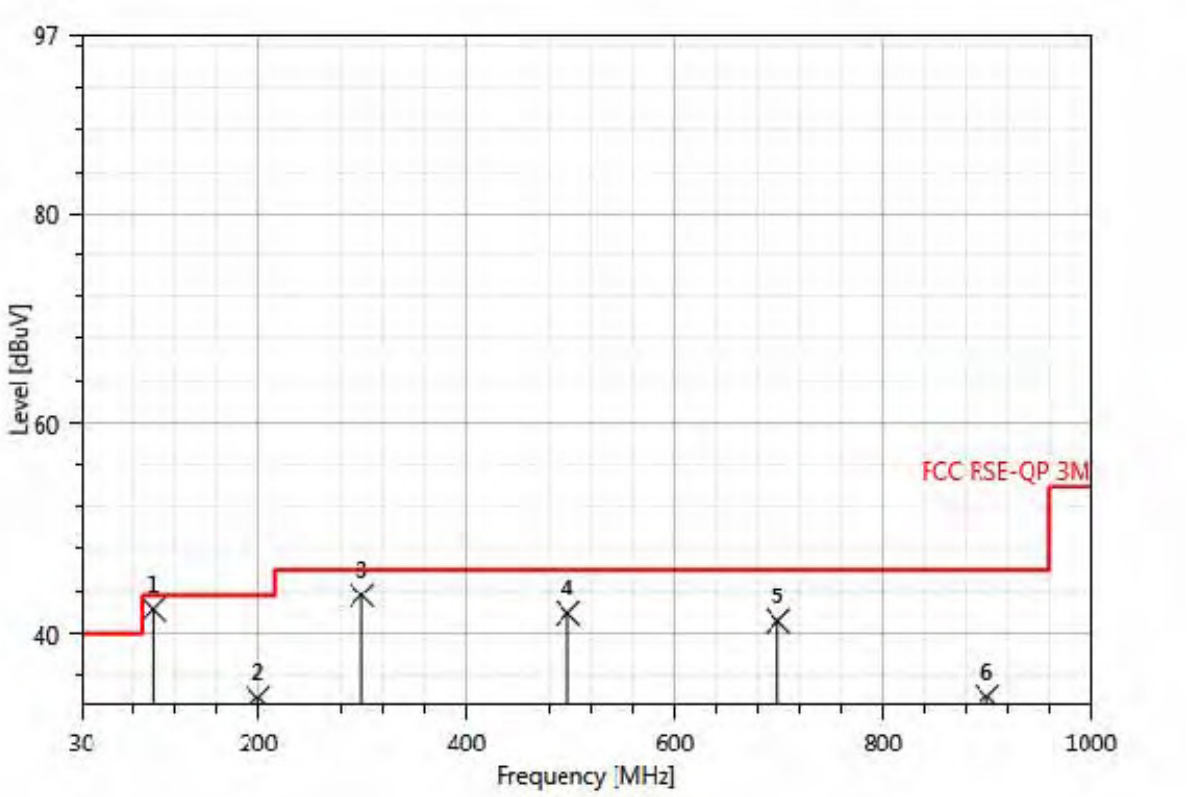
Operation Mode :	802.11ac80B2	Test Date :	03/21/2016 09:05:49
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	38.66	51.33	-12.67	43.50	-4.84
199.75	S	25.50	35.10	-9.60	43.50	-18.00
298.69	S	32.41	38.36	-5.95	46.00	-13.59
497.54	S	34.68	37.07	-2.39	46.00	-11.32
697.36	S	36.27	34.91	1.36	46.00	-9.73
968.96	S	32.39	26.17	6.21	54.00	-21.61

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Operation Mode :	802.11ac80B2	Test Date :	03/21/2016 09:06:52
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

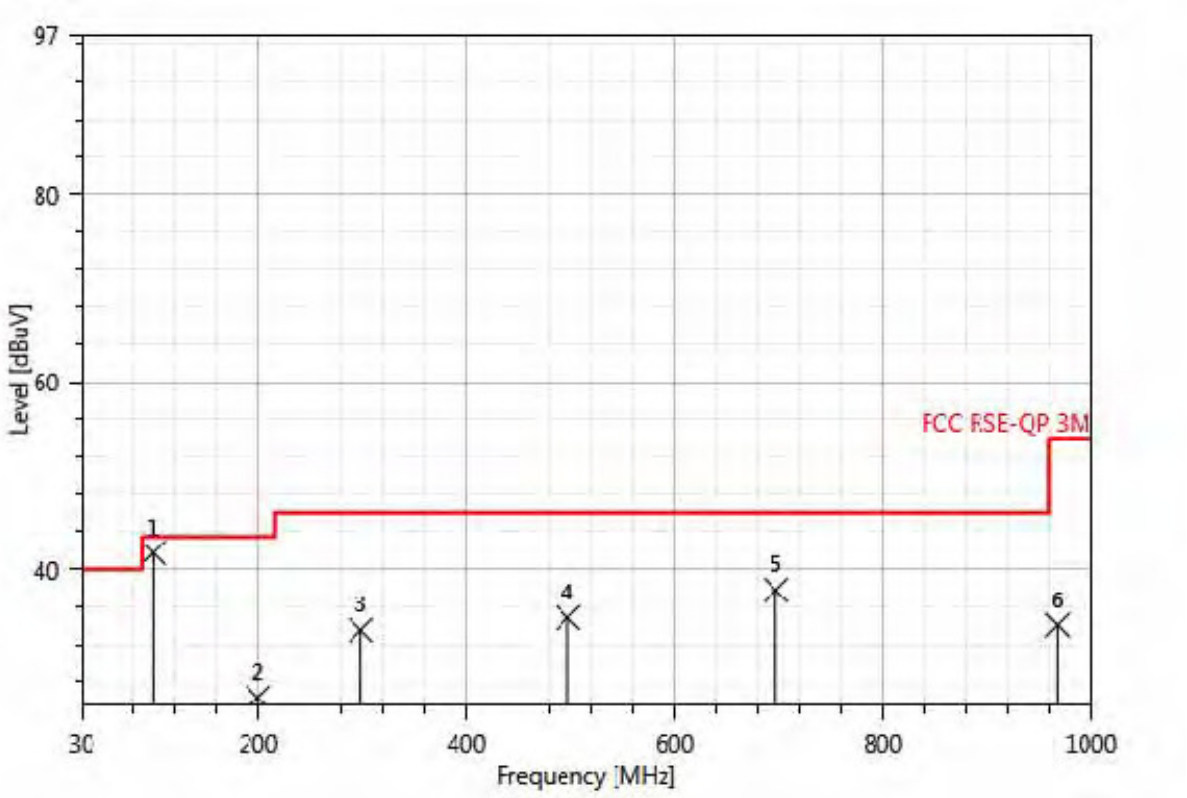


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	42.23	54.89	-12.67	43.50	-1.27
199.75	S	33.87	43.47	-9.60	43.50	-9.63
299.66	S	43.60	49.53	-5.93	46.00	-2.40
497.54	S	41.86	44.25	-2.39	46.00	-4.14
699.30	S	41.14	39.70	1.44	46.00	-4.86
900.09	S	33.96	29.32	4.64	46.00	-12.04

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802.11ac VHT80, 5470~5725 MHz

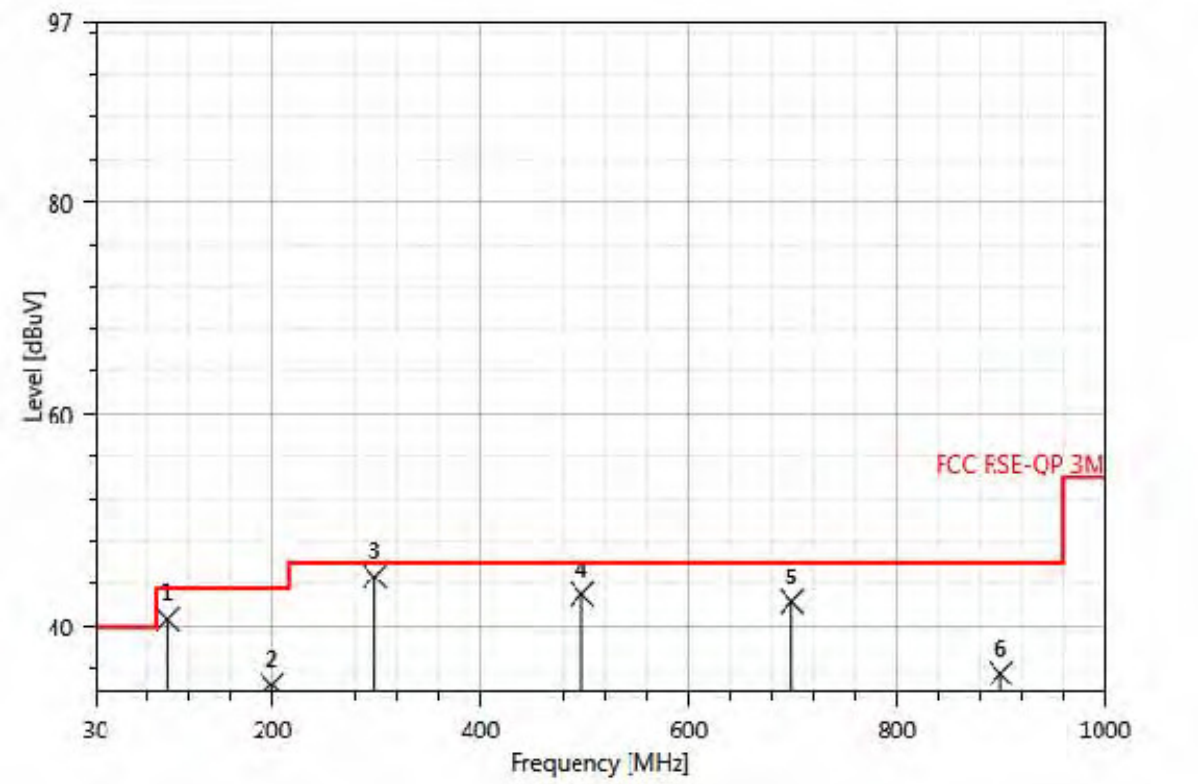
Operation Mode :	802.11ac80B3	Test Date :	02/17/2016 22:37:34
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	38.66	51.33	-12.67	43.50	-4.84
199.75	S	25.50	35.10	-9.60	43.50	-18.00
298.69	S	32.41	38.36	-5.95	46.00	-13.59
400.54	S	29.69	33.63	-3.94	46.00	-16.31
497.54	S	34.68	37.07	-2.39	46.00	-11.32
599.39	S	41.01	41.29	-0.28	46.00	-4.99

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Operation Mode :	802.11ac80B3	Test Date :	02/19/2016 23:03:01
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

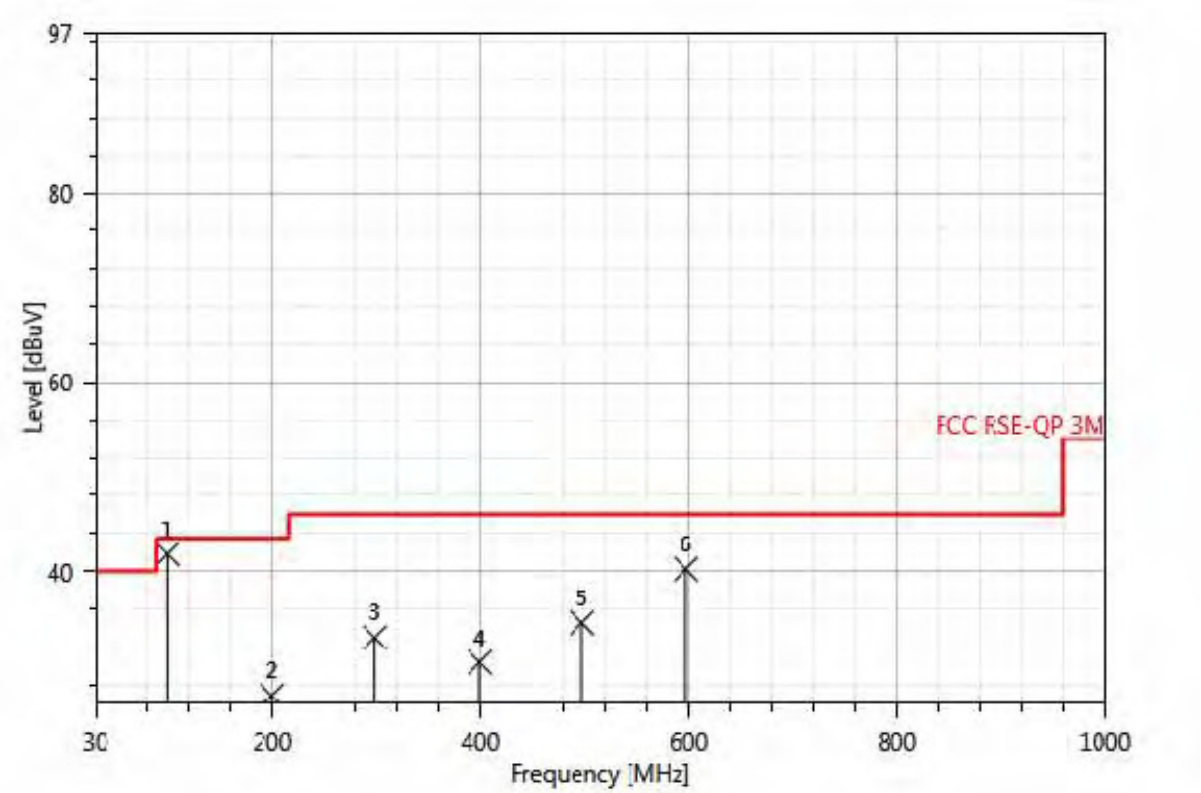


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	40.36	53.02	-12.67	43.50	-3.14
199.75	S	33.87	43.47	-9.60	43.50	-9.63
299.66	S	43.60	49.53	-5.93	46.00	-2.40
345.25	S	32.90	37.99	-5.09	46.00	-13.10
497.54	S	41.86	44.25	-2.39	46.00	-4.14
699.30	S	41.14	39.70	1.44	46.00	-4.86

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802.11ac VHT80, 5725~5850 MHz

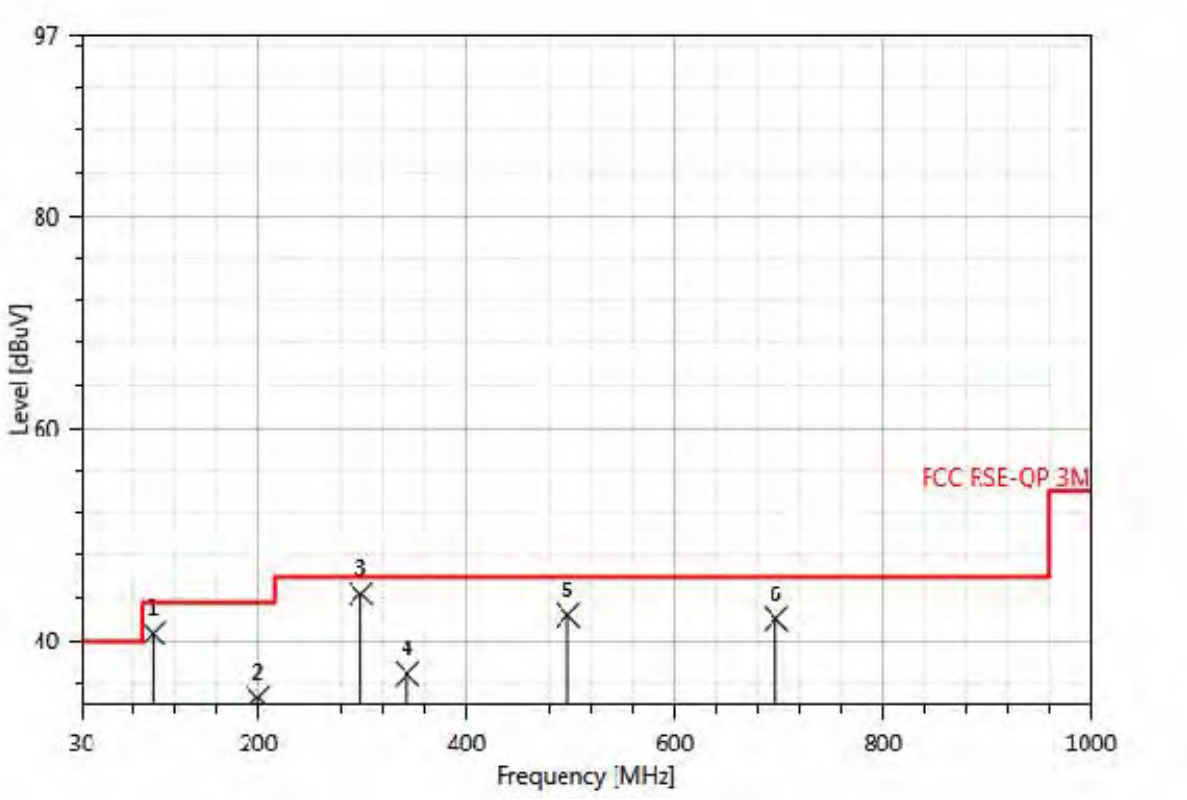
Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 22:53:34
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	41.79	54.46	-12.67	43.50	-1.71
199.75	S	26.83	36.43	-9.60	43.50	-16.67
298.69	S	32.99	38.95	-5.95	46.00	-13.01
399.57	S	30.34	34.27	-3.93	46.00	-15.66
497.54	S	34.54	36.93	-2.39	46.00	-11.46
597.45	S	40.22	40.41	-0.19	46.00	-5.78

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Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 23:01:38
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



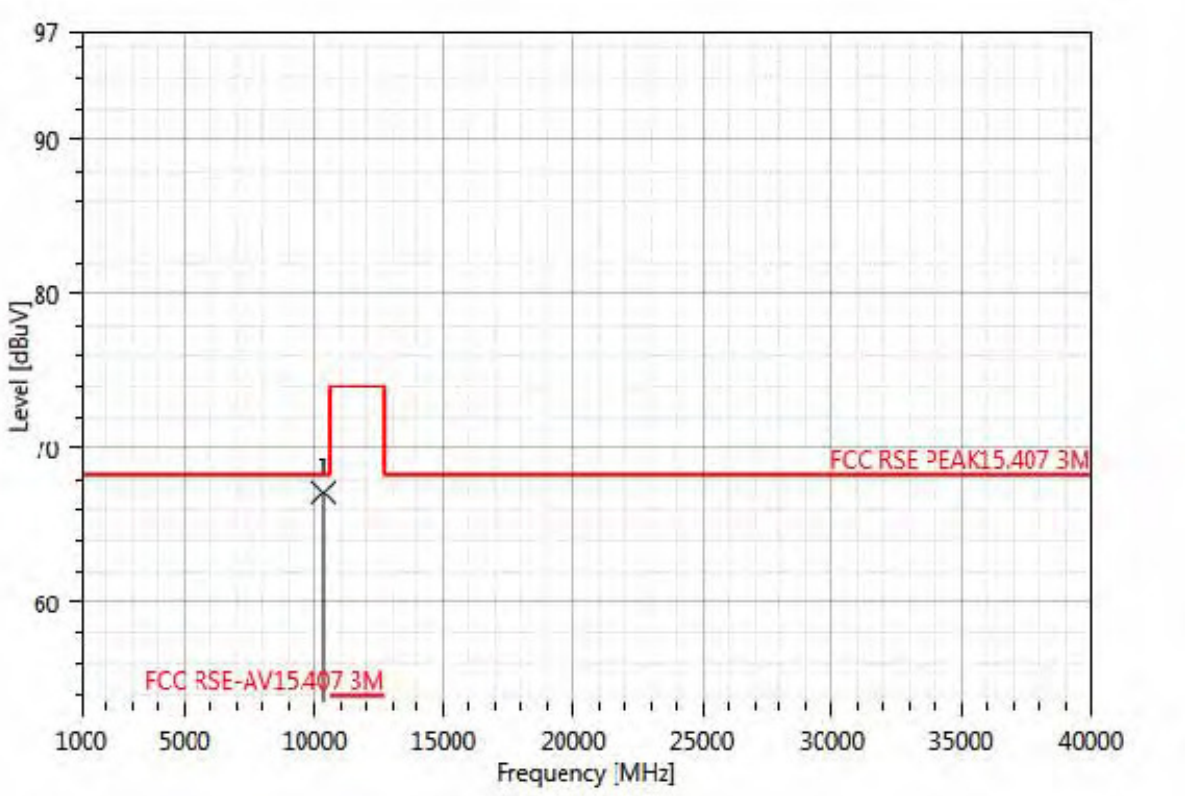
Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
99.84	S	40.70	53.37	-12.67	43.50	-2.80
199.75	S	34.65	44.25	-9.60	43.50	-8.85
298.69	S	44.40	50.35	-5.95	46.00	-1.60
343.31	S	36.87	41.99	-5.12	46.00	-9.13
497.54	S	42.37	44.76	-2.39	46.00	-3.63
697.36	S	42.06	40.70	1.36	46.00	-3.94

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Above 1GHz Worst-Case Data:

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

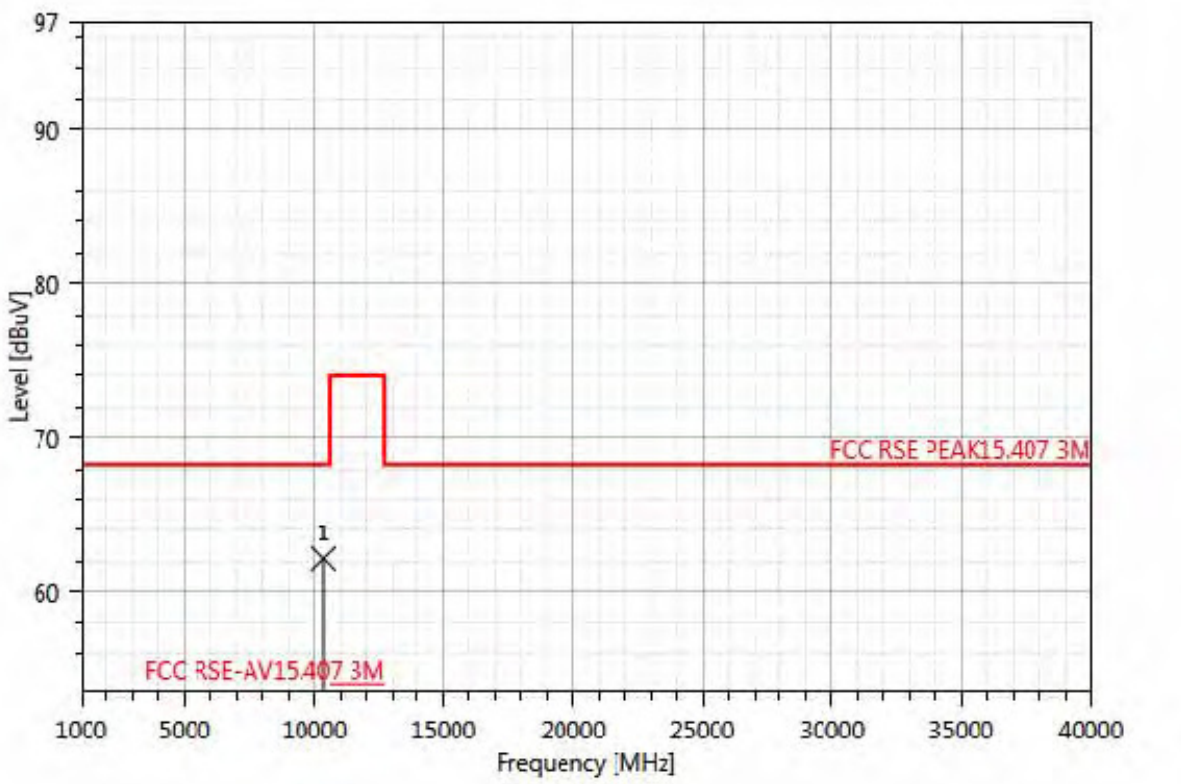
Operation Mode :	802.11aB1	Test Date :	03/01/2016 19:39:24
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10360.00	H	67.11	48.82	18.29	68.30	-1.19

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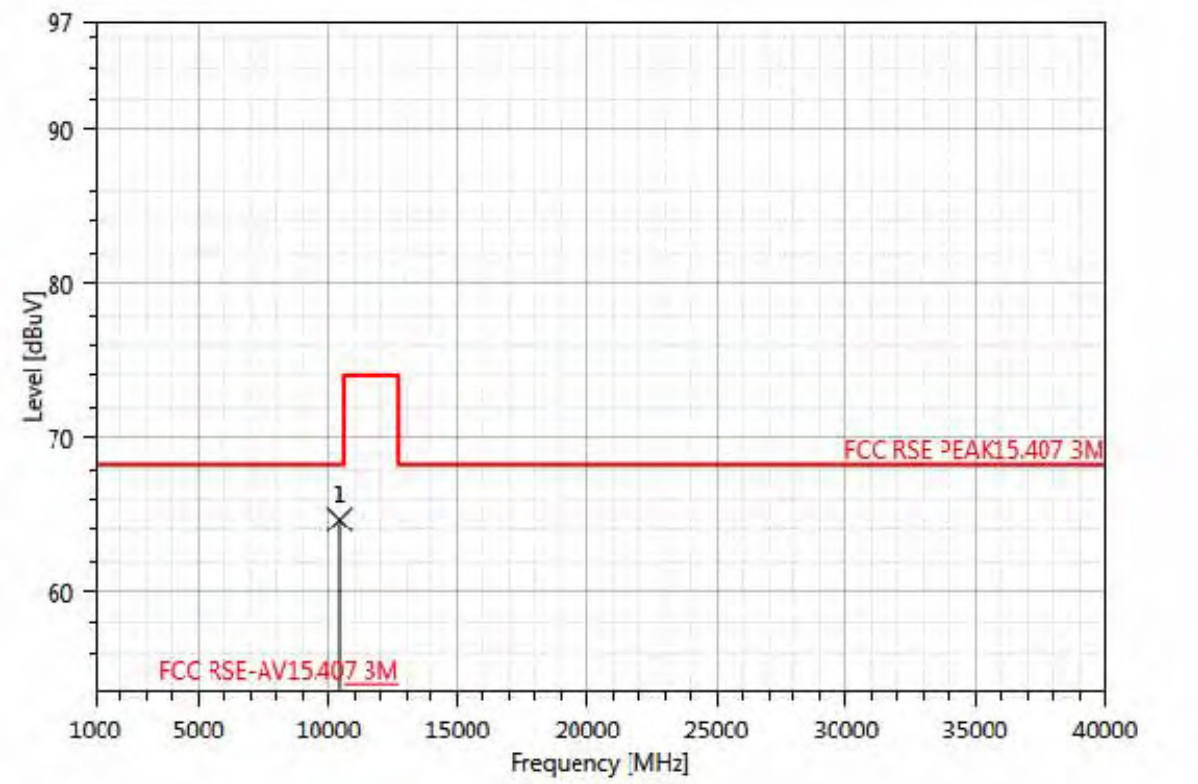
Operation Mode :	802.11aB1	Test Date :	03/01/2016 19:39:44
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10360.00	H	62.18	43.89	18.29	68.30	-6.12

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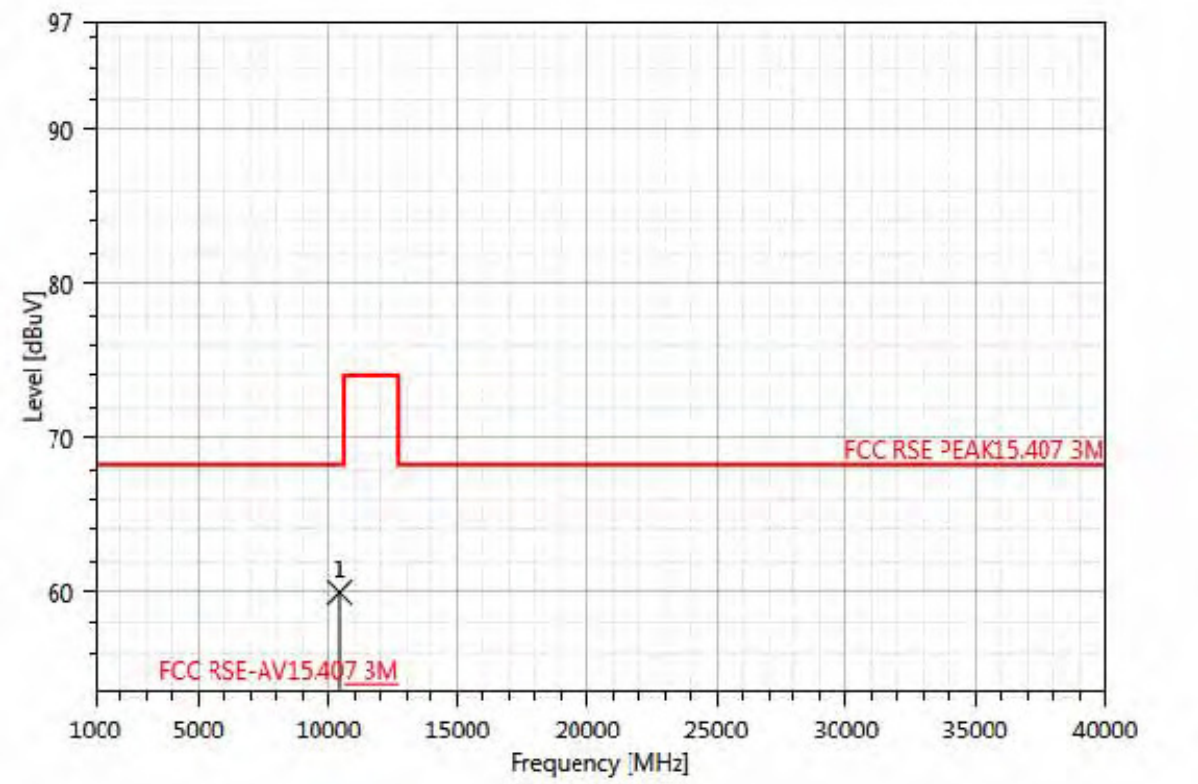
Operation Mode :	802.11aB1	Test Date :	03/01/2016 19:45:38
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10440.00	H	64.70	46.02	18.68	68.30	-3.60

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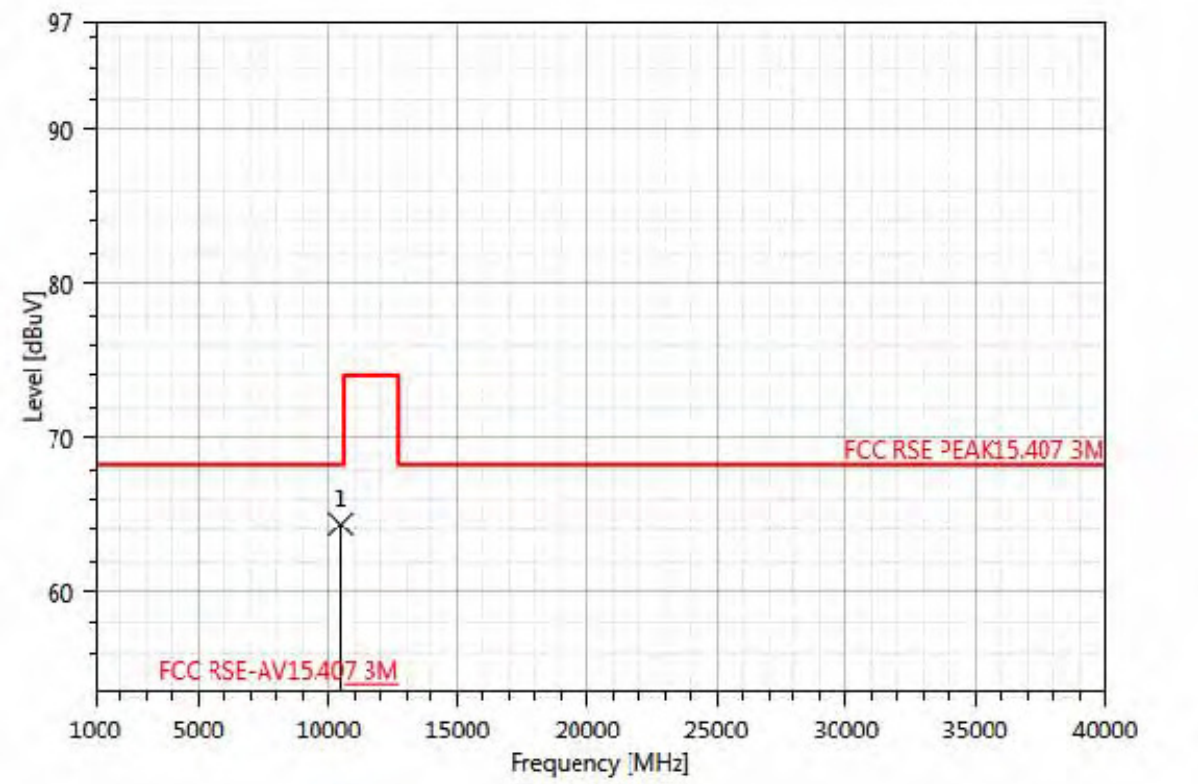
Operation Mode :	802.11aB1	Test Date :	03/01/2016 19:45:54
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10440.00	H	59.93	41.25	18.68	68.30	-8.37

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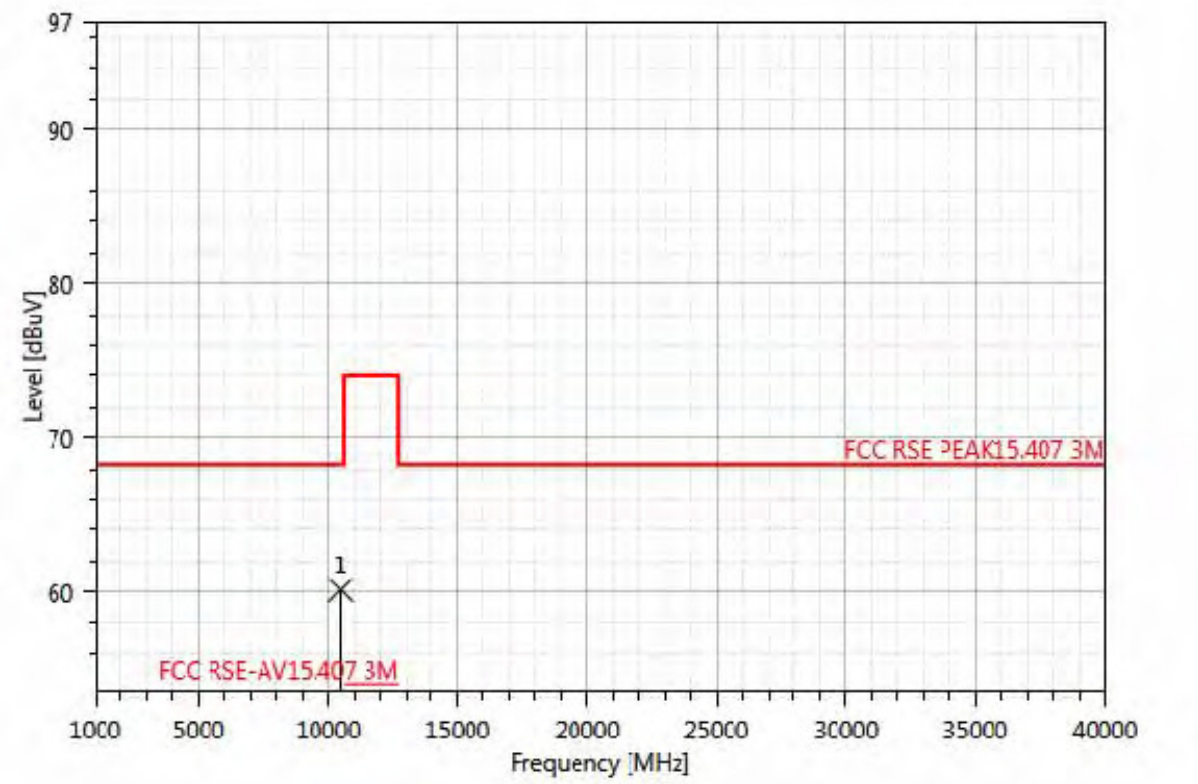
Operation Mode :	802.11aB1	Test Date :	03/01/2016 19:49:59
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10480.00	H	64.39	46.10	18.29	68.30	-3.91

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Operation Mode :	802.11aB1	Test Date :	03/01/2016 19:50:14
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

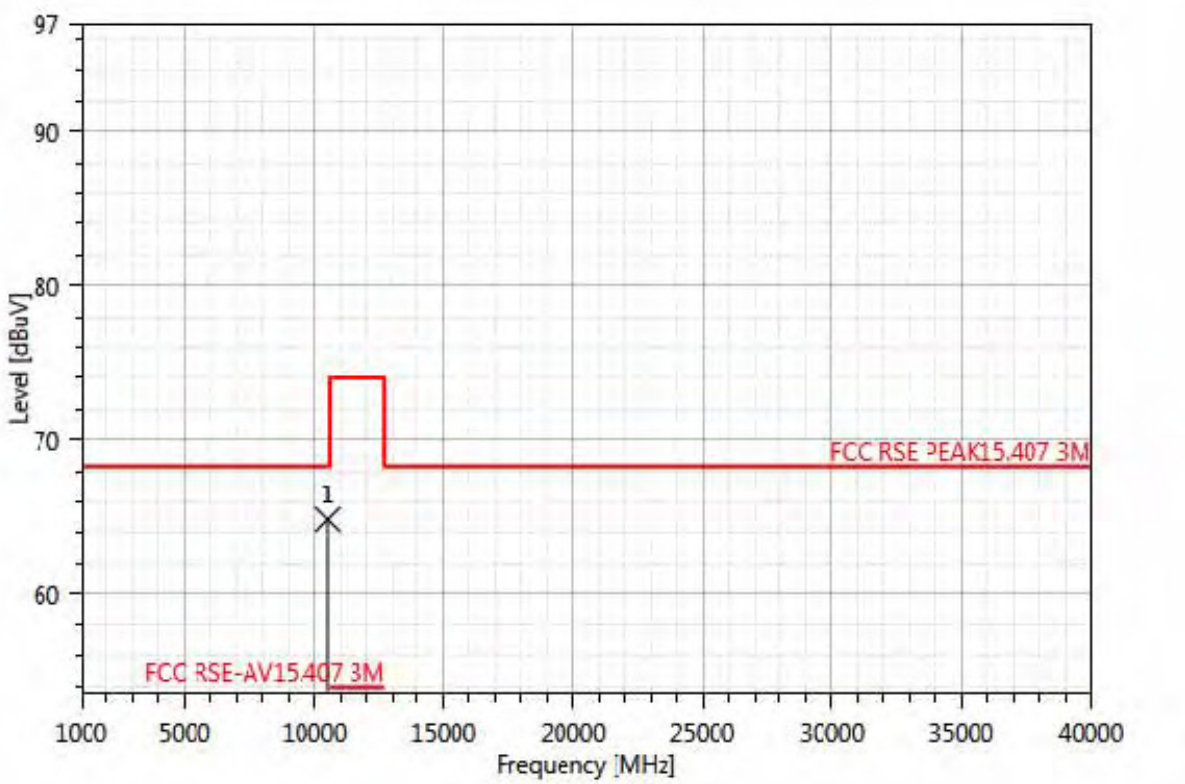


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10480.00	H	60.12	41.83	18.29	68.30	-8.18

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

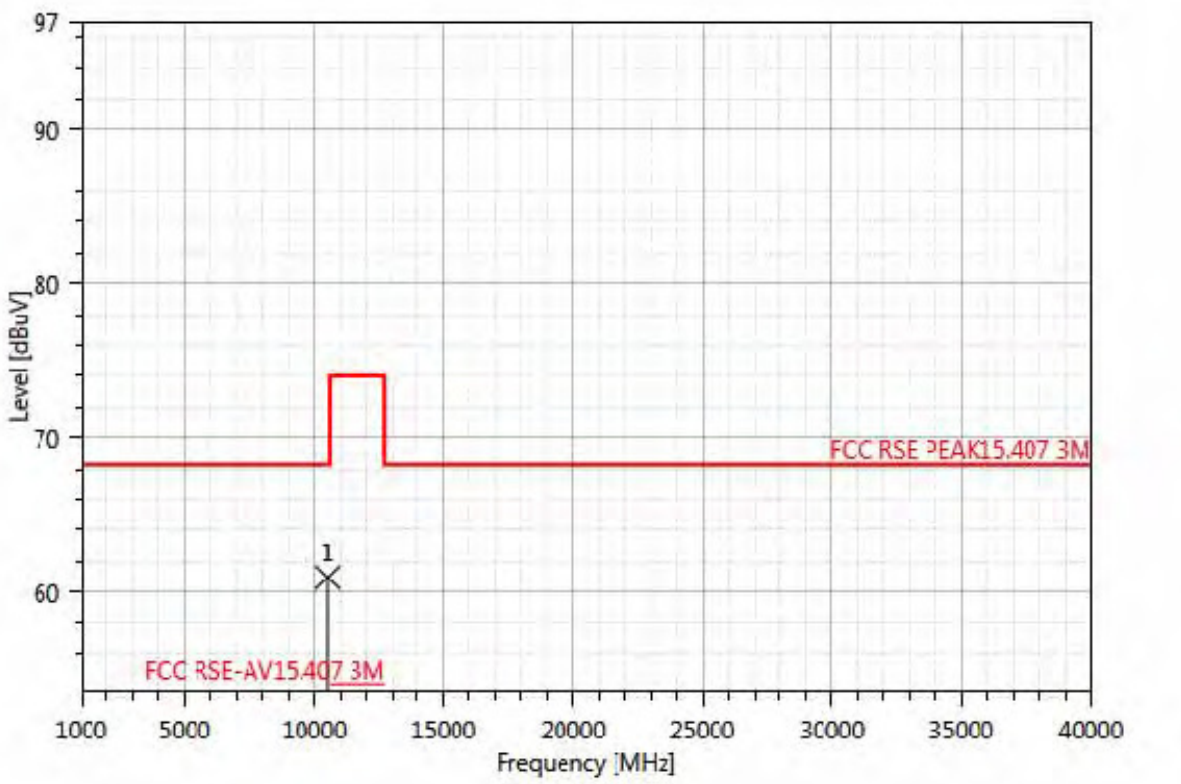
Operation Mode :	802.11aB2	Test Date :	03/01/2016 19:52:29
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10520.00	H	64.87	45.50	19.37	68.30	-3.43

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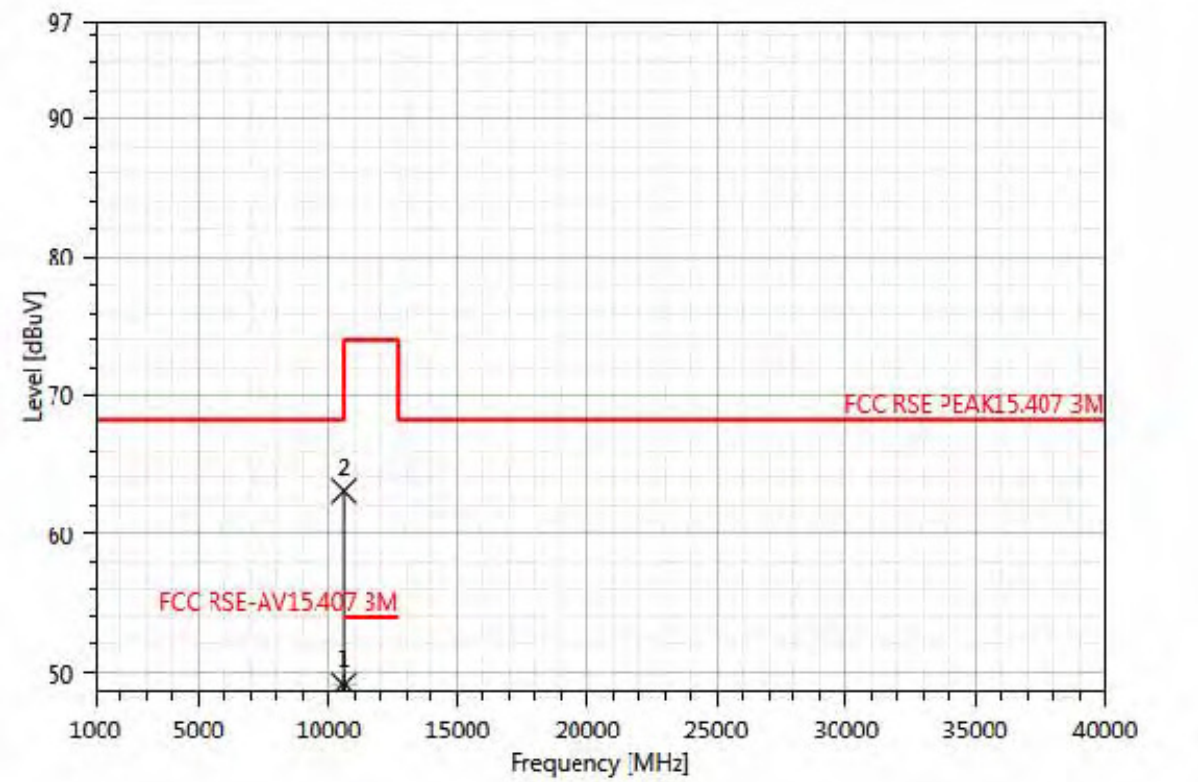
Operation Mode :	802.11aB2	Test Date :	03/01/2016 19:52:44
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10520.00	H	60.94	41.57	19.37	68.30	-7.36

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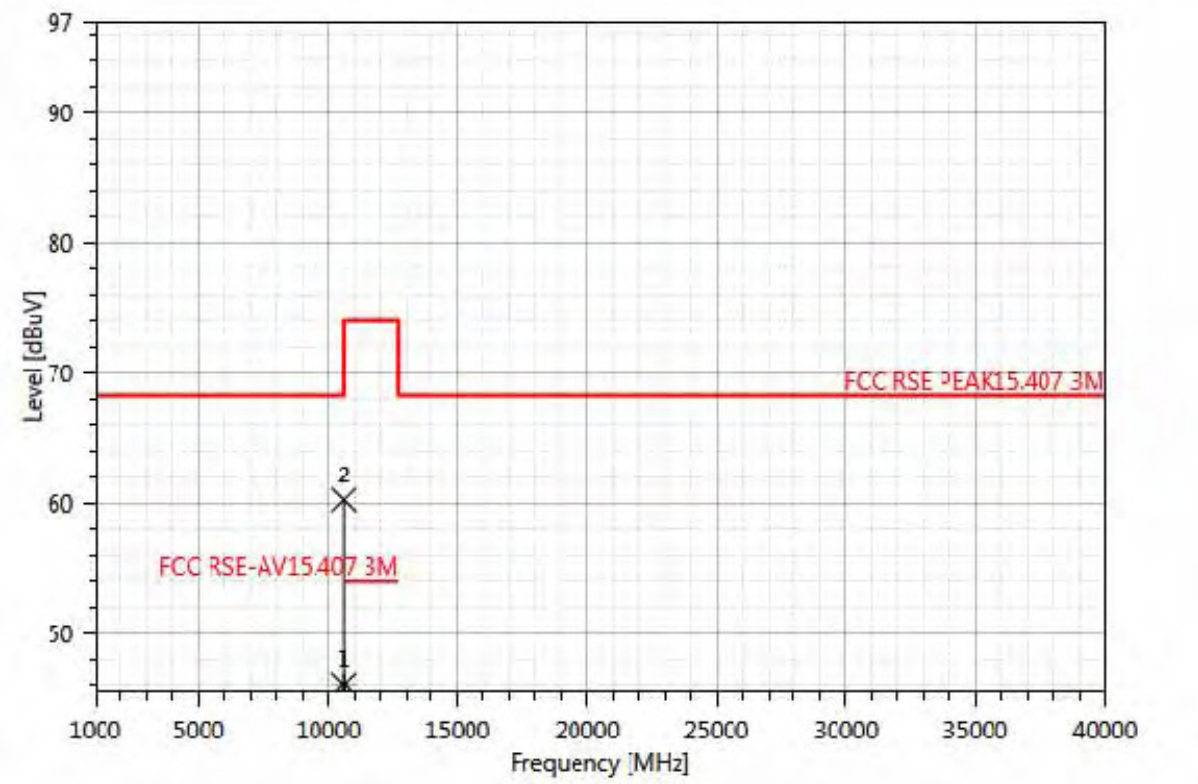
Operation Mode :	802.11aB2	Test Date :	03/01/2016 19:53:45
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10600.00	H	49.12	30.21	18.91	54.00	-4.88
10600.00	H	63.07	44.16	18.91	74.00	-10.93

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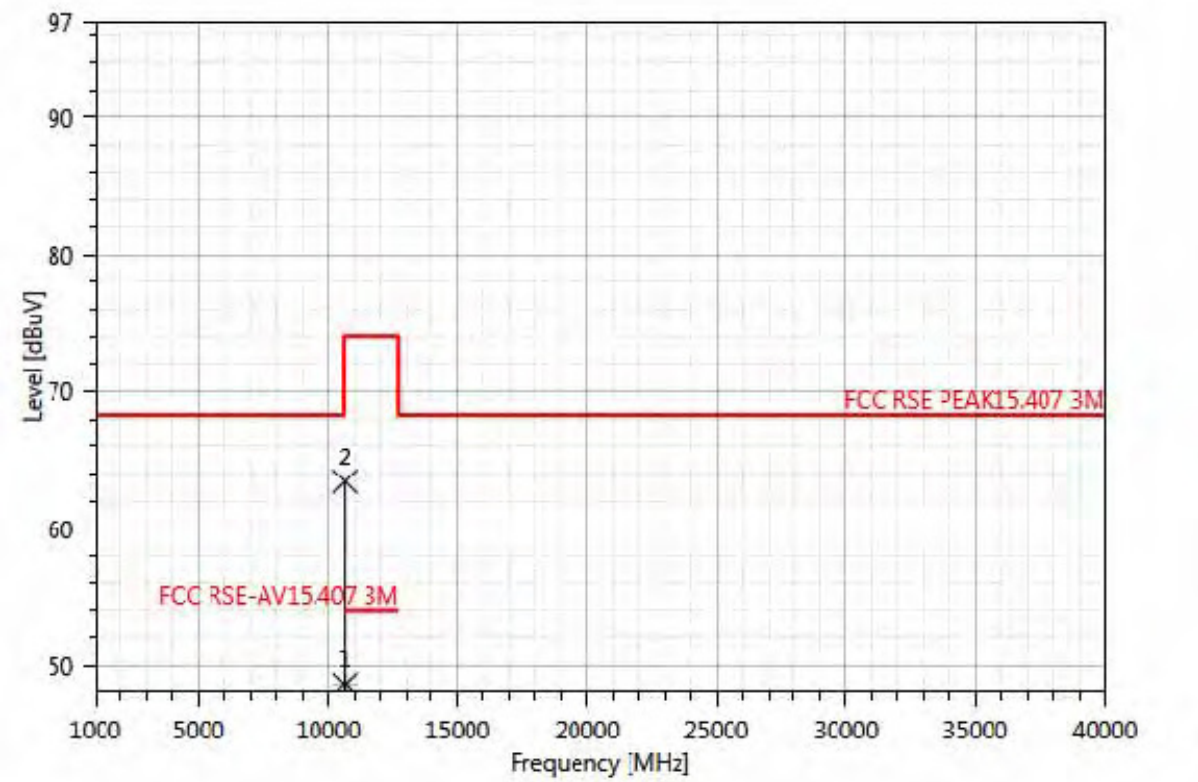
Operation Mode :	802.11aB2	Test Date :	03/01/2016 19:54:00
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10600.00	H	46.12	27.21	18.91	54.00	-7.88
10600.00	H	60.29	41.38	18.91	74.00	-13.71

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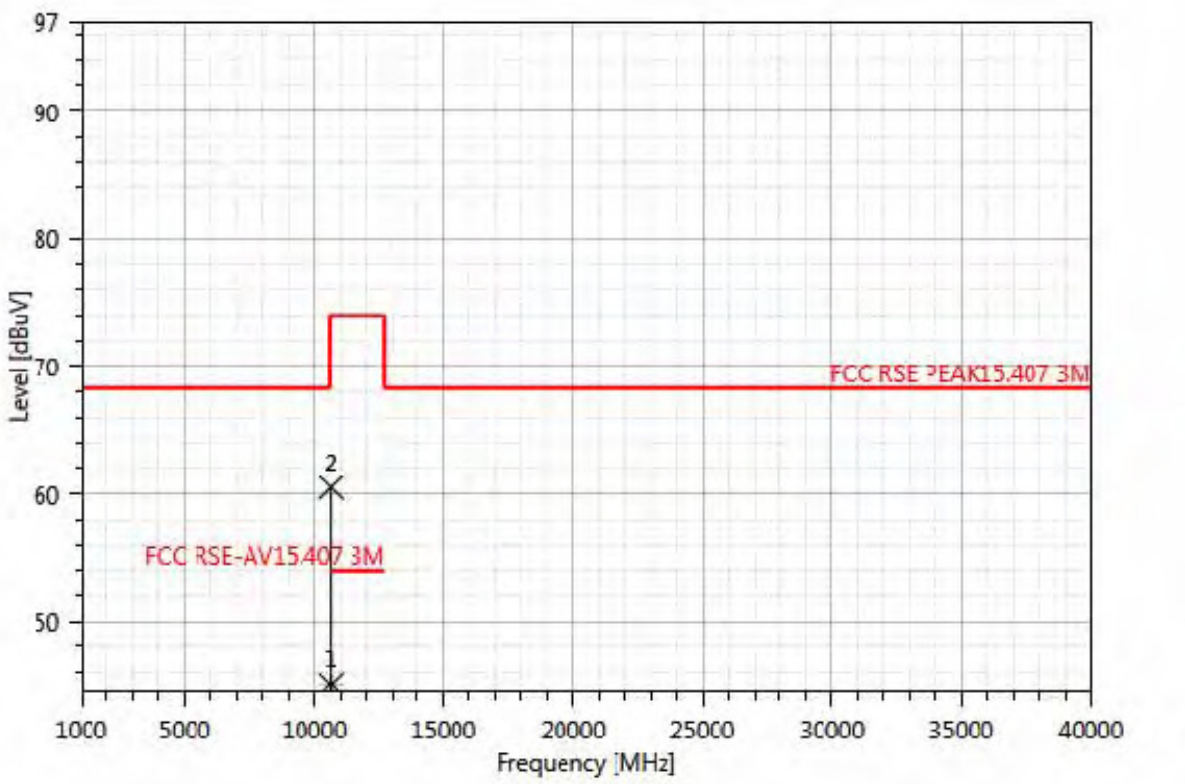
Operation Mode :	802.11aB2	Test Date :	03/01/2016 20:29:39
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10640.00	H	48.58	29.40	19.18	54.00	-5.42
10640.00	H	63.42	44.23	19.18	74.00	-10.58

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Operation Mode :	802.11aB2	Test Date :	03/01/2016 20:29:52
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

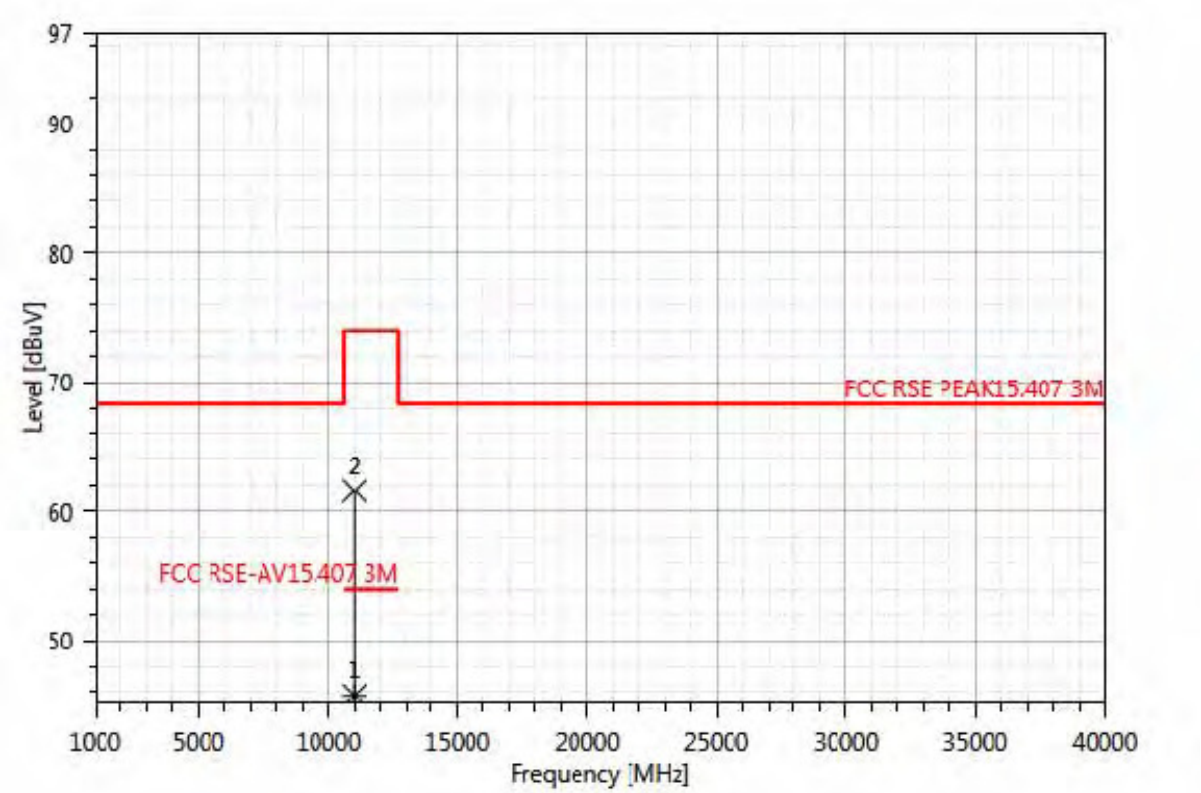


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10640.00	H	45.05	25.87	19.18	54.00	-8.95
10640.00	H	60.50	41.31	19.18	74.00	-13.50

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

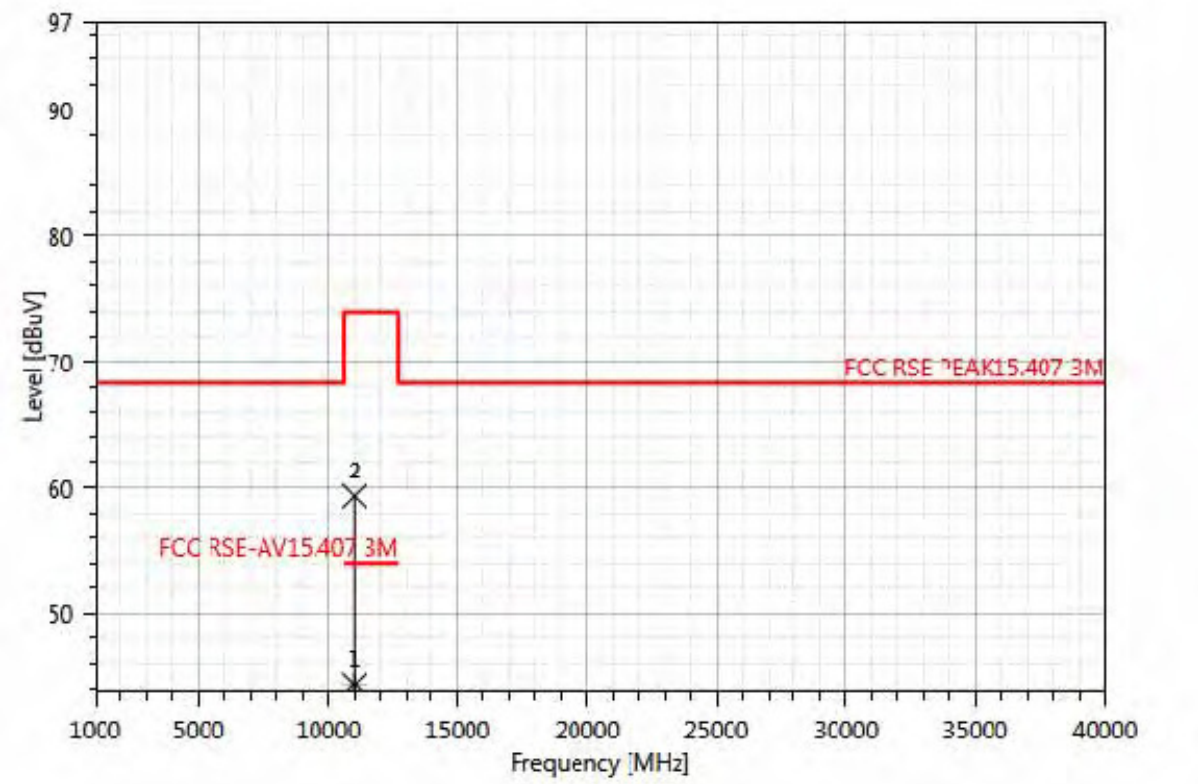
Operation Mode :	802.11aB3	Test Date :	03/01/2016 20:37:39
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11000.00	H	45.74	25.57	20.17	54.00	-8.26
11000.00	H	61.58	41.41	20.17	74.00	-12.42

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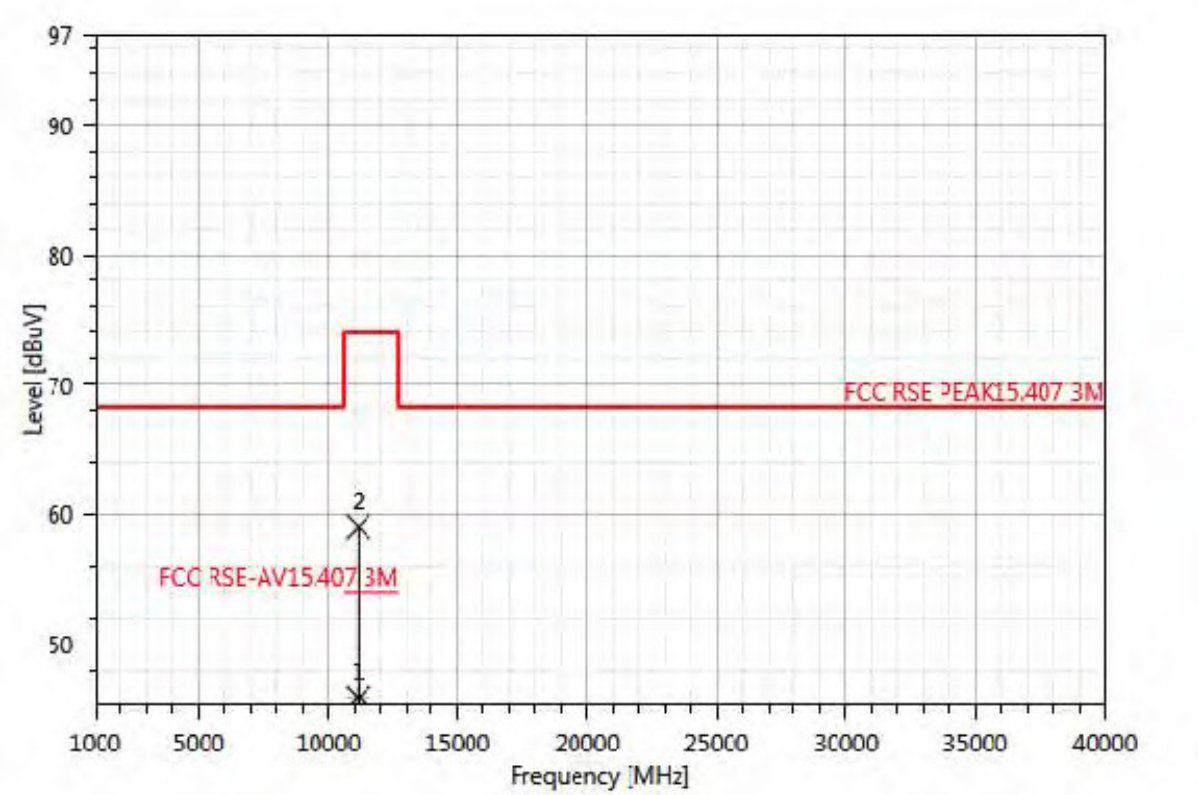
Operation Mode :	802.11aB3	Test Date :	03/01/2016 20:37:53
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11000.00	H	44.39	24.22	20.17	54.00	-9.61
11000.00	H	59.33	39.16	20.17	74.00	-14.67

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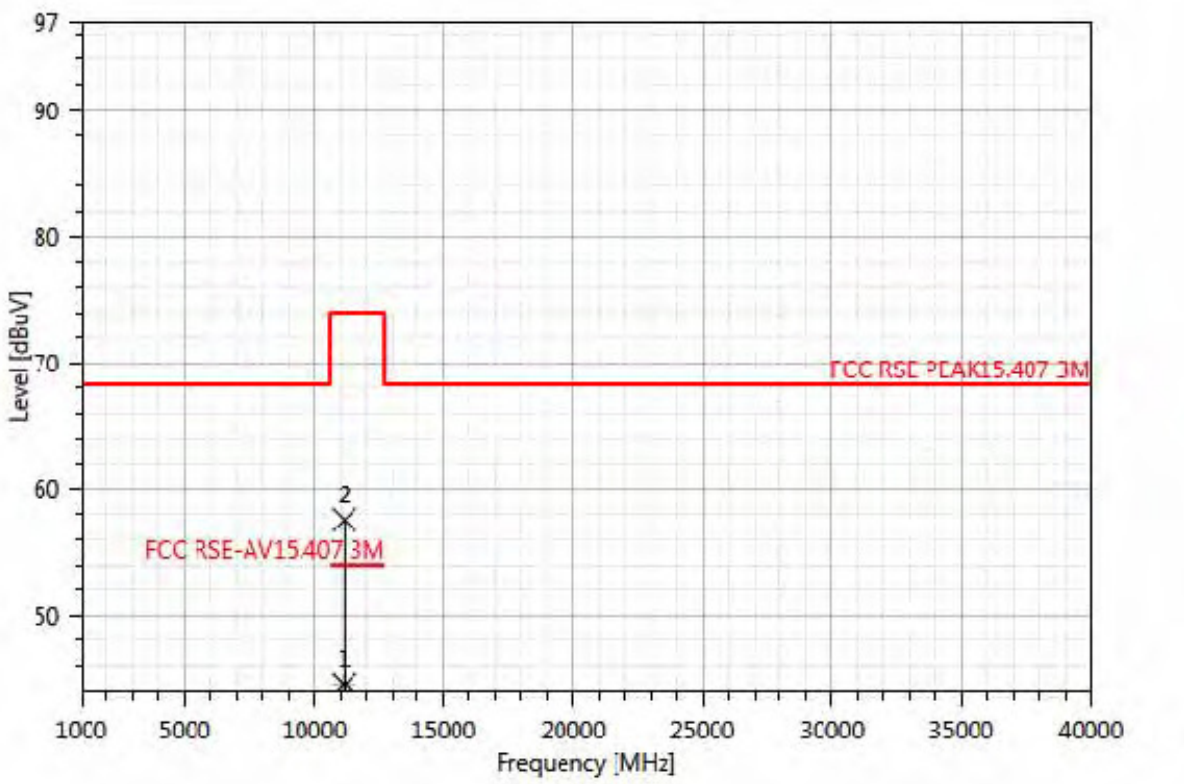
Operation Mode :	802.11aB3	Test Date :	03/01/2016 20:40:54
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11160.00	H	45.92	25.47	20.45	54.00	-8.08
11160.00	H	59.10	38.65	20.45	74.00	-14.90

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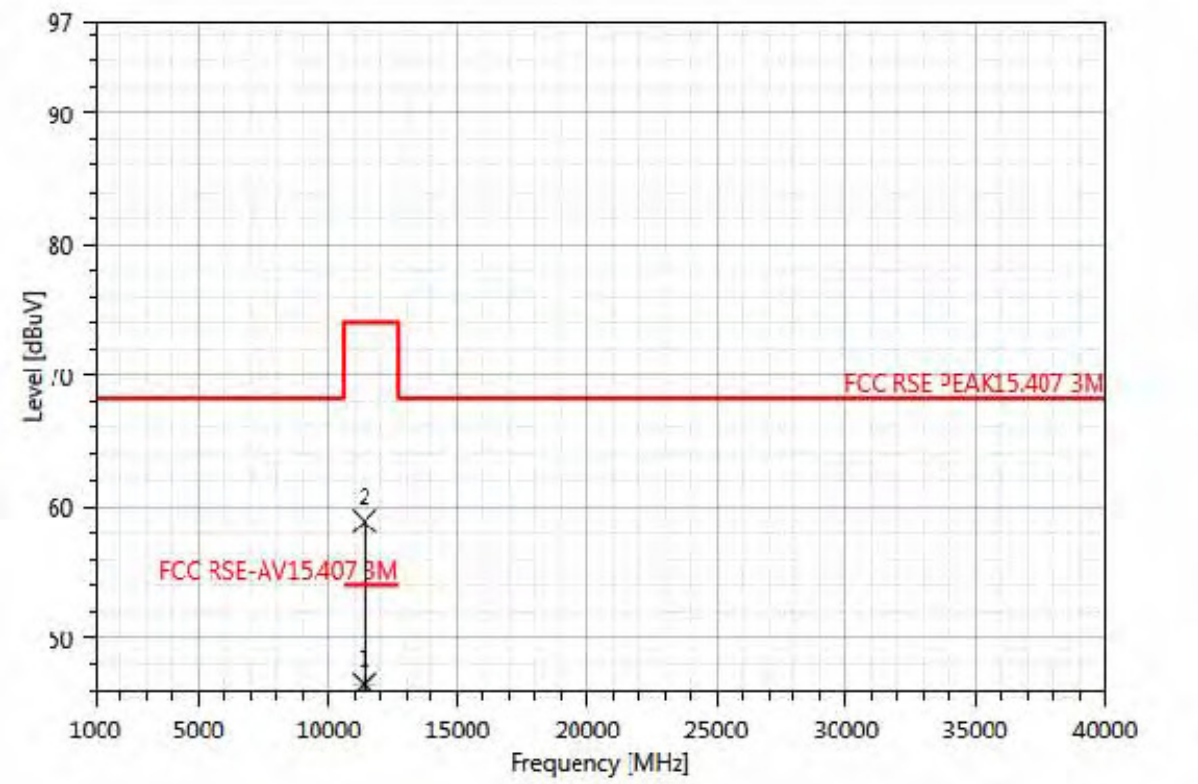
Operation Mode :	802.11aB3	Test Date :	03/01/2016 20:41:08
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11160.00	H	44.56	24.11	20.45	54.00	-9.44
11160.00	H	57.59	37.15	20.45	74.00	-16.41

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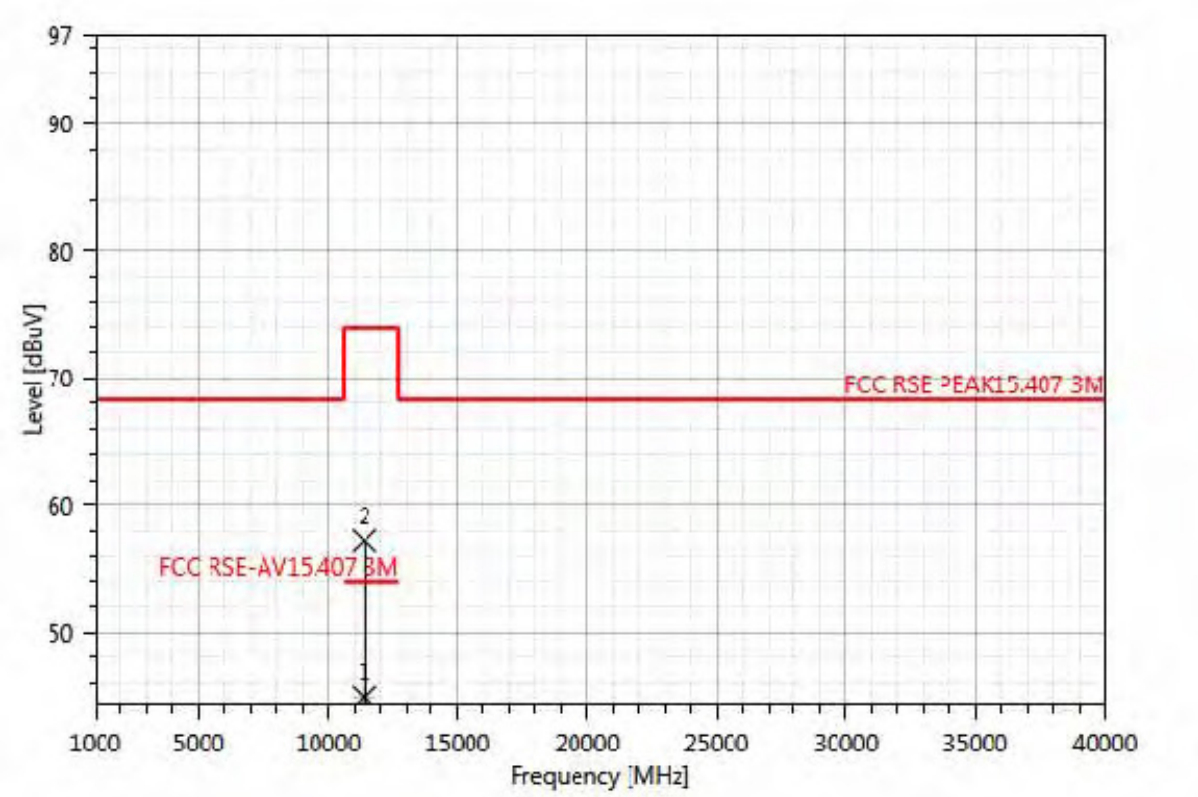
Operation Mode :	802.11aB3	Test Date :	03/01/2016 20:46:16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11400.00	H	46.47	25.91	20.56	54.00	-7.53
11400.00	H	58.92	38.36	20.56	74.00	-15.08

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Operation Mode :	802.11aB3	Test Date :	03/01/2016 20:46:30
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

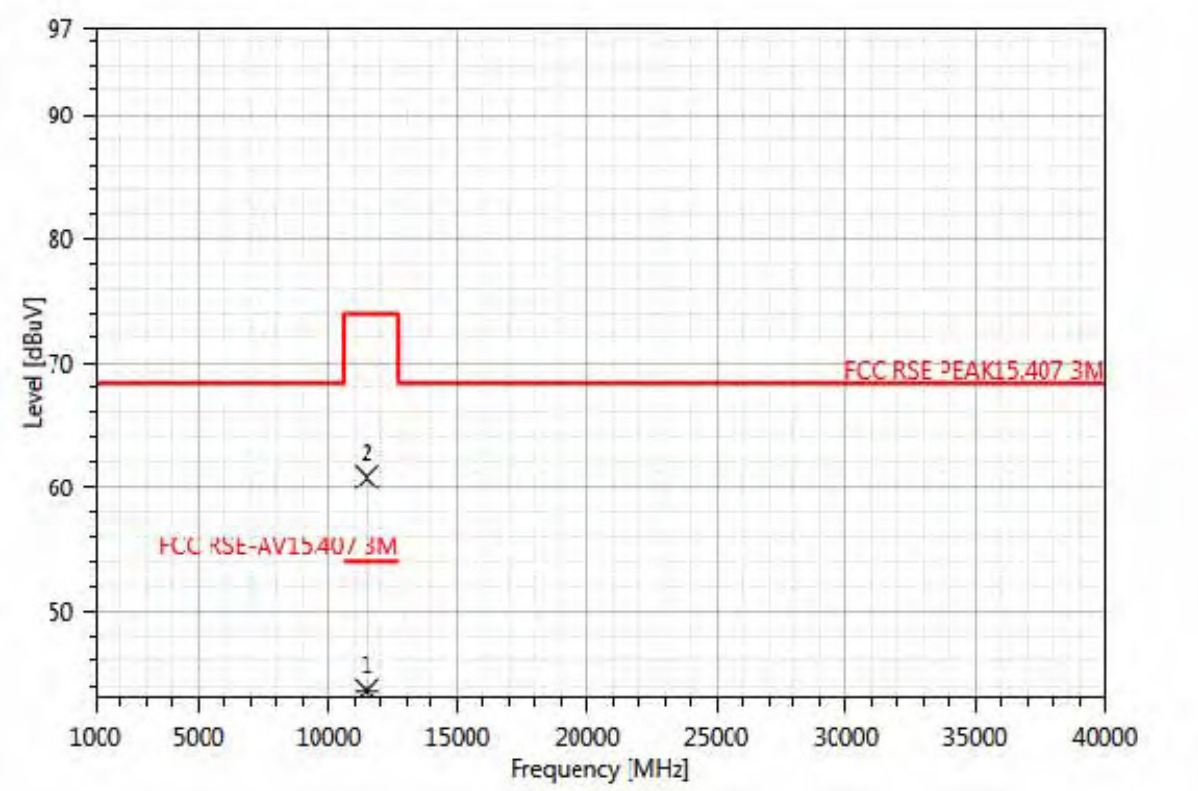


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11400.00	H	44.87	24.31	20.56	54.00	-9.13
11400.00	H	57.20	36.65	20.56	74.00	-16.80

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

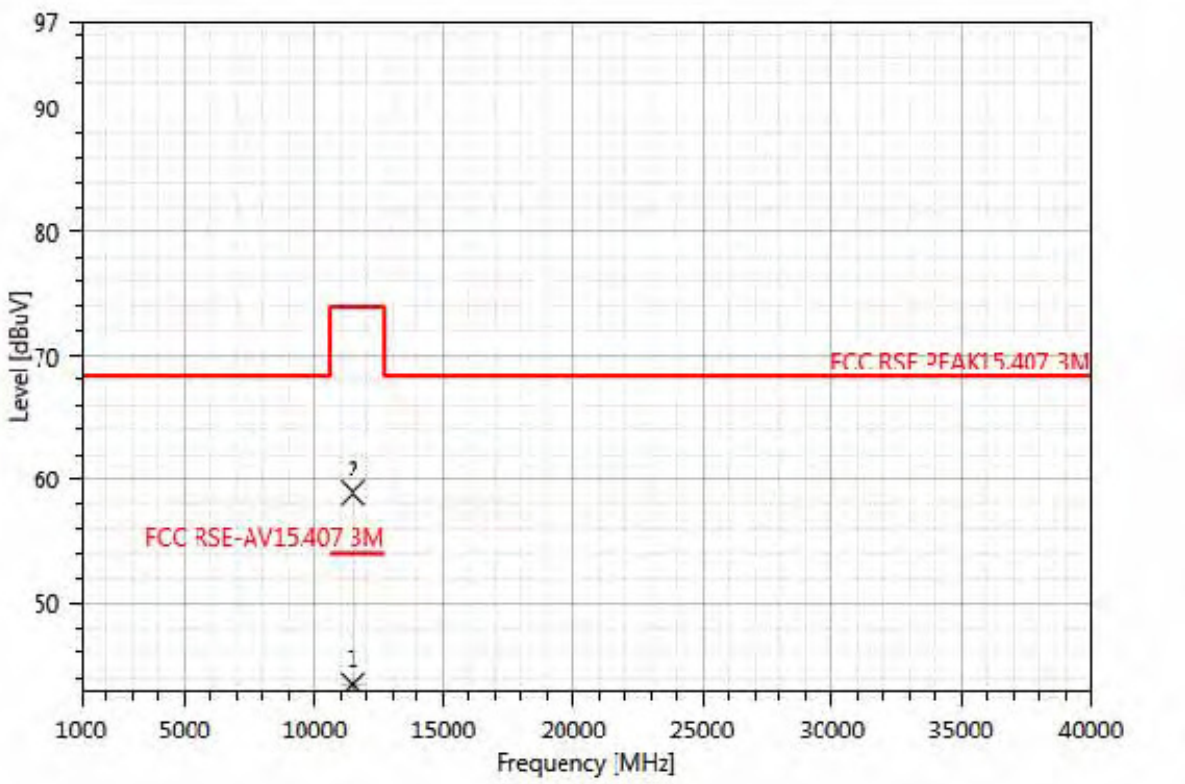
Operation Mode :	802.11aB4	Test Date :	03/01/2016 20:51:44
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11490.00	H	43.60	23.18	20.42	54.00	-10.40
11490.00	H	60.81	40.39	20.42	74.00	-13.19

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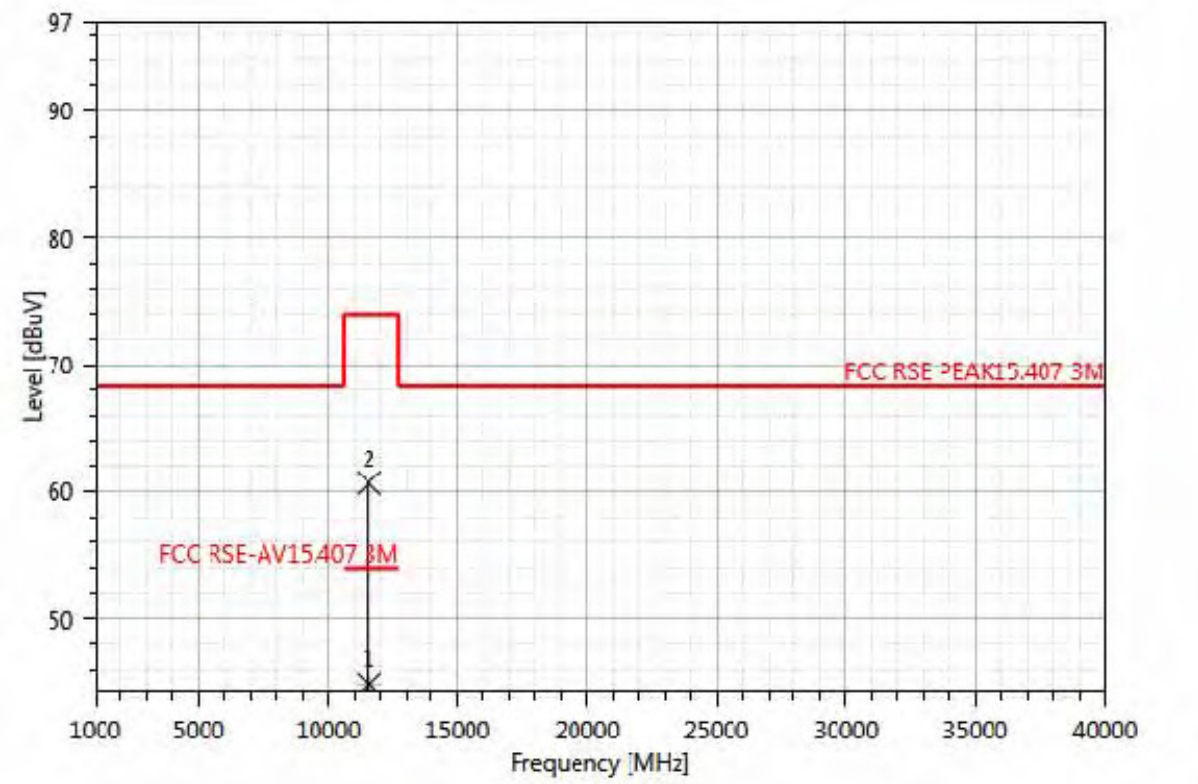
Operation Mode :	802.11aB4	Test Date :	03/01/2016 20:51:58
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11490.00	H	43.42	23.00	20.42	54.00	-10.58
11490.00	H	58.89	38.47	20.42	74.00	-15.11

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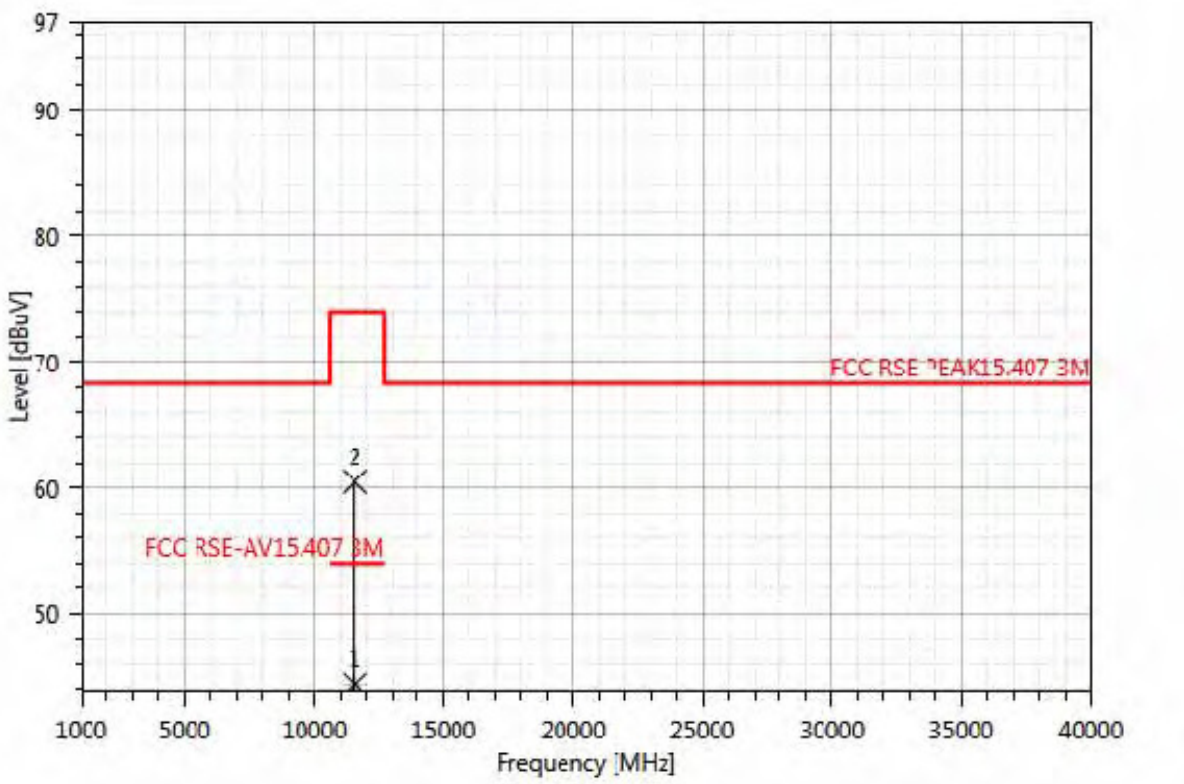
Operation Mode :	802.11aB4	Test Date :	03/01/2016 20:55:16
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11570.00	H	44.83	24.24	20.59	54.00	-9.17
11570.00	H	60.68	40.10	20.59	74.00	-13.32

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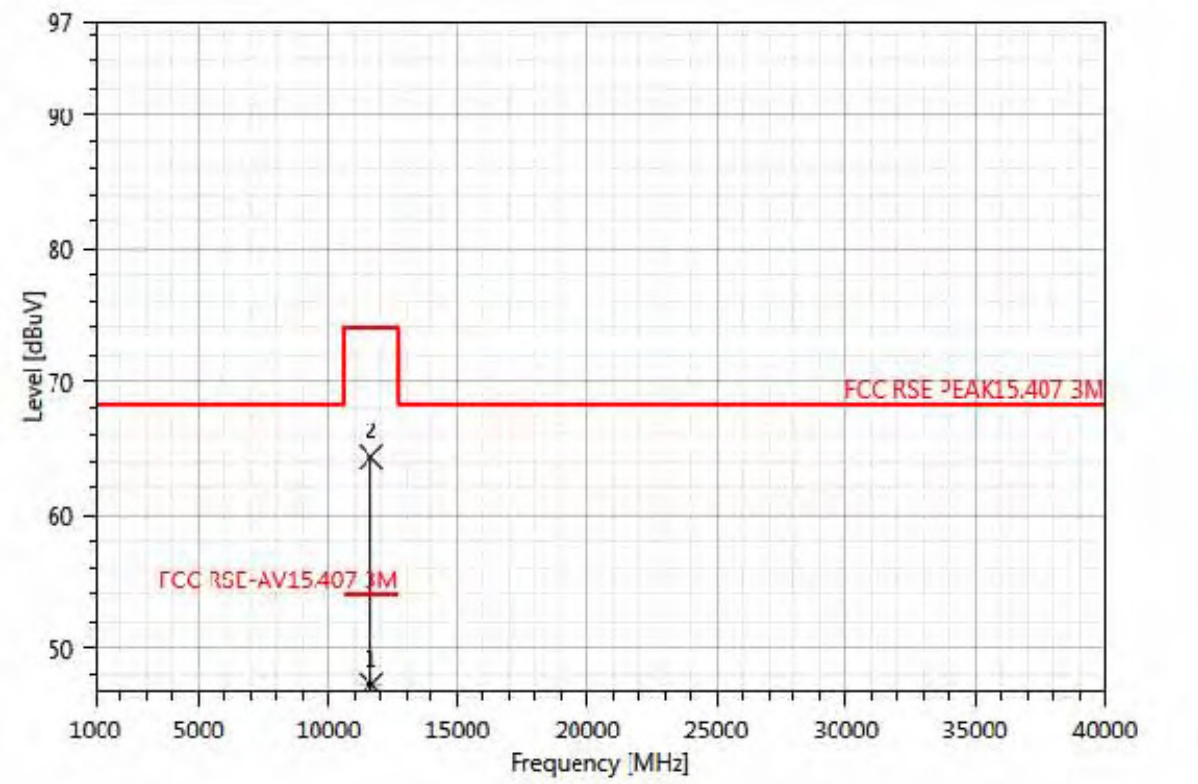
Operation Mode :	802.11aB4	Test Date :	03/01/2016 20:55:30
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11570.00	H	44.40	23.81	20.59	54.00	-9.60
11570.00	H	60.49	39.91	20.59	74.00	-13.51

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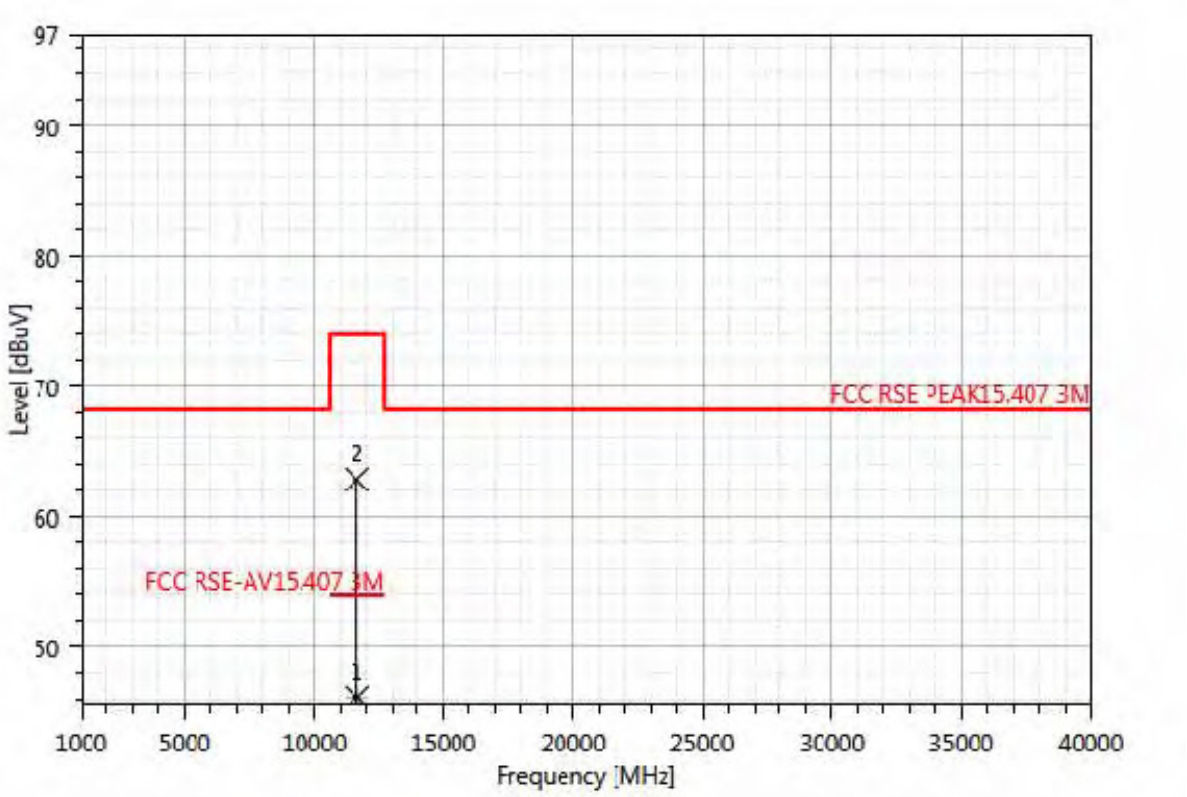
Operation Mode :	802.11aB4	Test Date :	03/01/2016 20:58:50
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11650.00	H	47.27	26.84	20.43	54.00	-6.73
11650.00	H	64.36	43.93	20.43	74.00	-9.64

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Operation Mode :	802.11aB4	Test Date :	03/01/2016 20:59:04
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

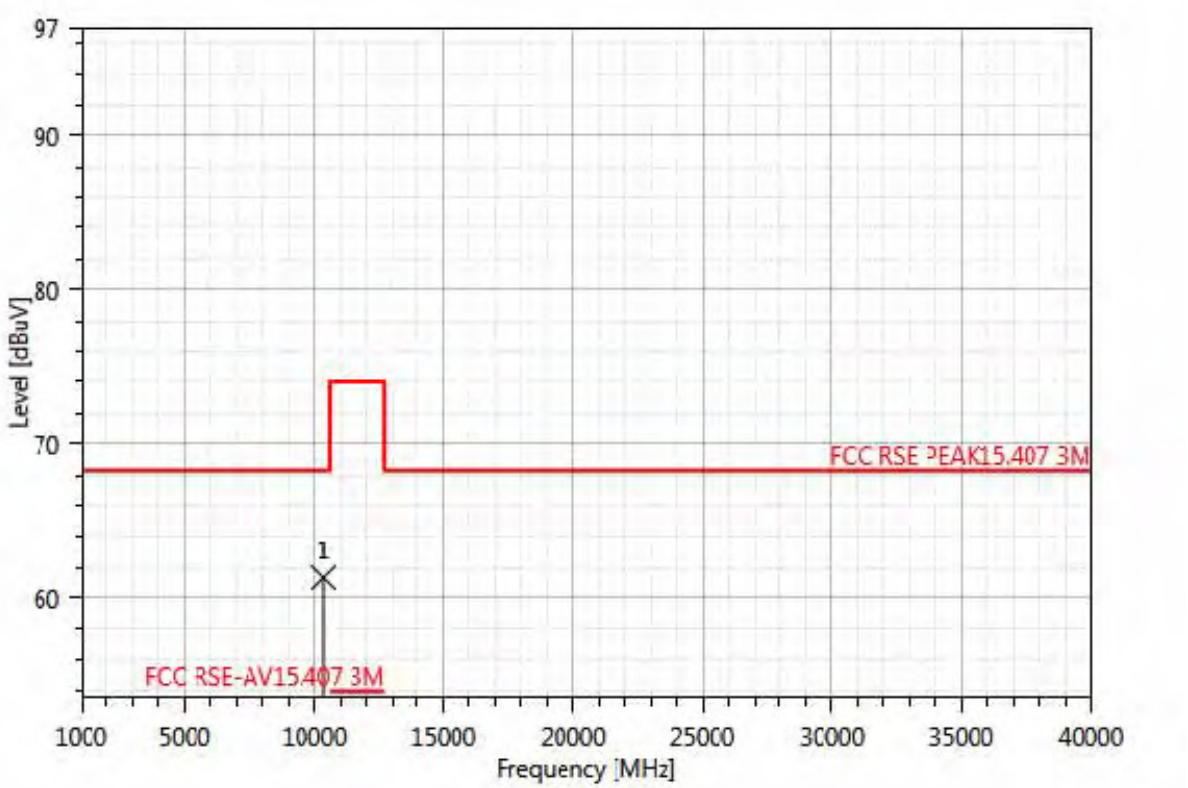


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11650.00	H	46.20	25.77	20.43	54.00	-7.80
11650.00	H	62.92	42.49	20.43	74.00	-11.08

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

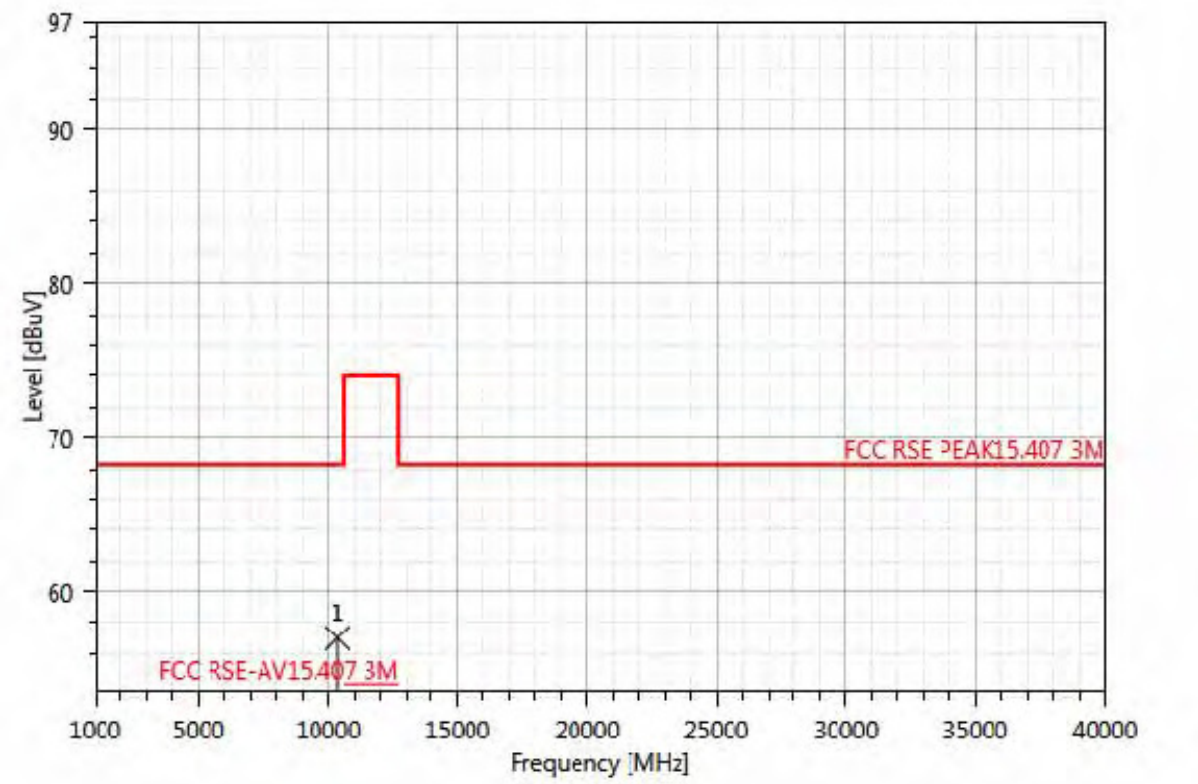
Operation Mode :	802.11n20B1	Test Date :	03/01/2016 19:55:58
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10360.00	H	61.37	43.07	18.29	68.30	-6.93

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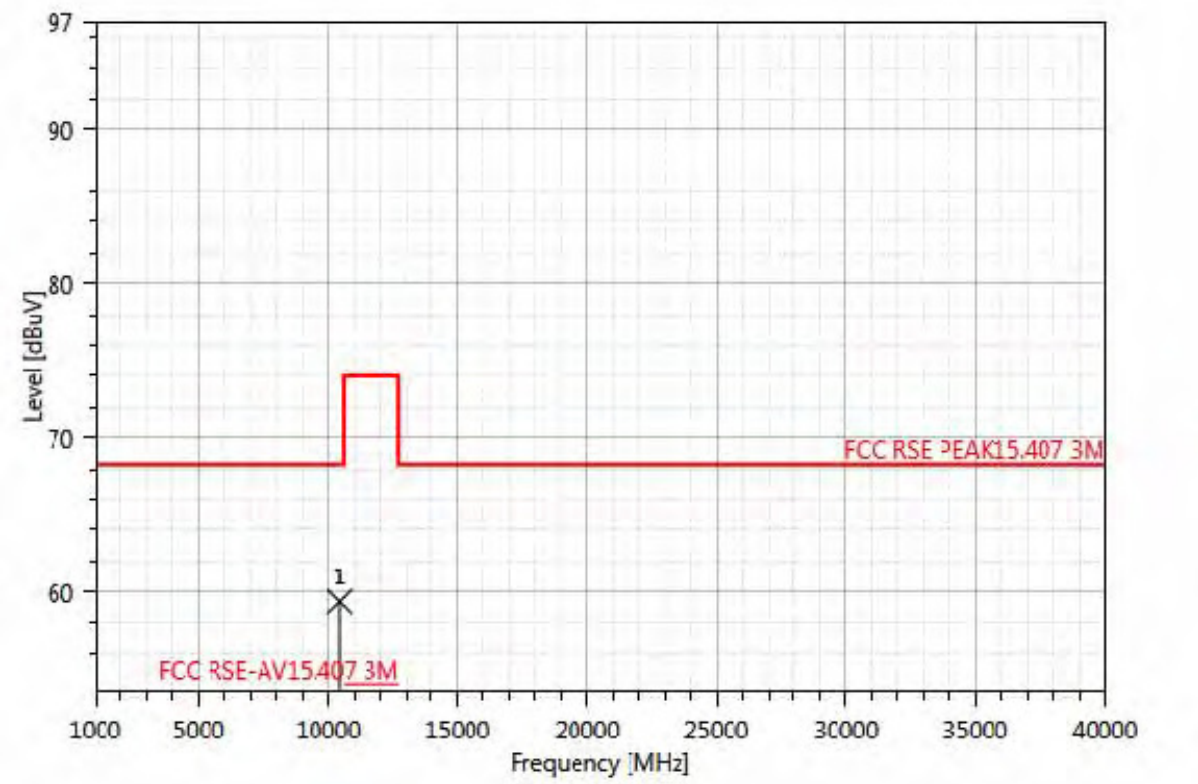
Operation Mode :	802.11n20B1	Test Date :	03/01/2016 19:56:11
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10360.00	H	57.01	38.72	18.29	68.30	-11.29

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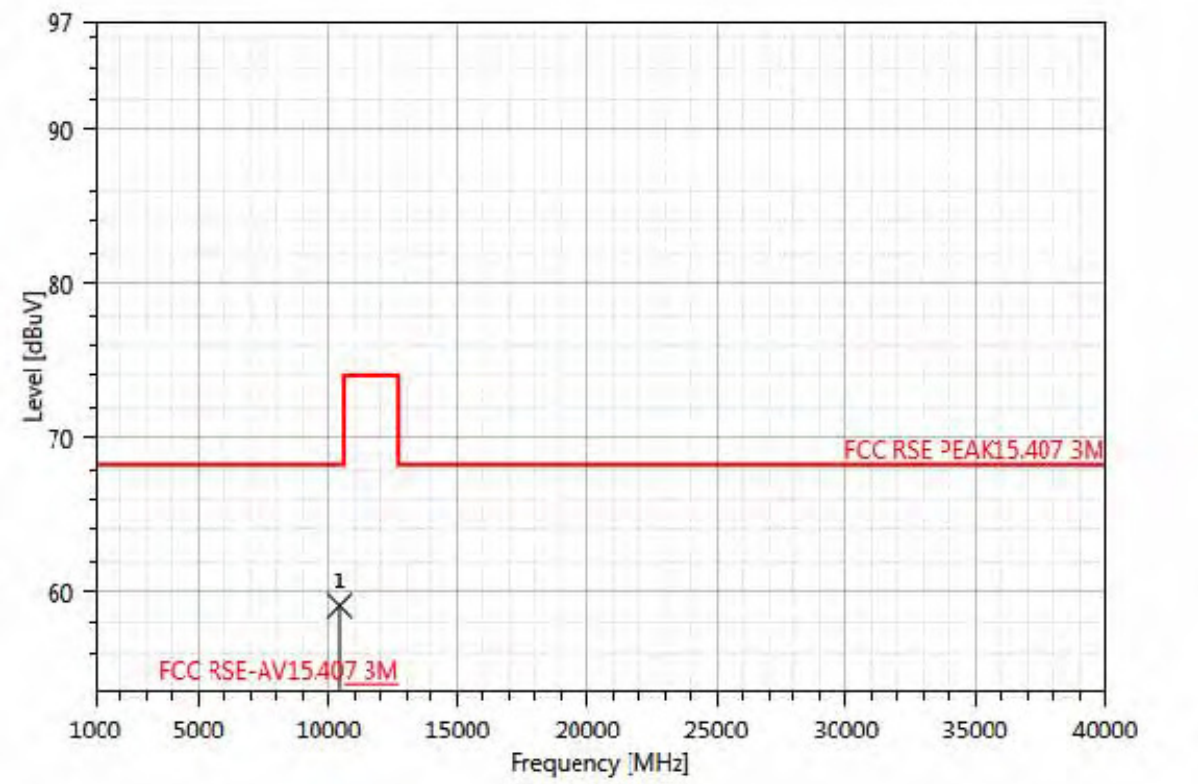
Operation Mode :	802.11n20B1	Test Date :	03/01/2016 20:04:19
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10440.00	H	59.37	40.68	18.68	68.30	-8.93

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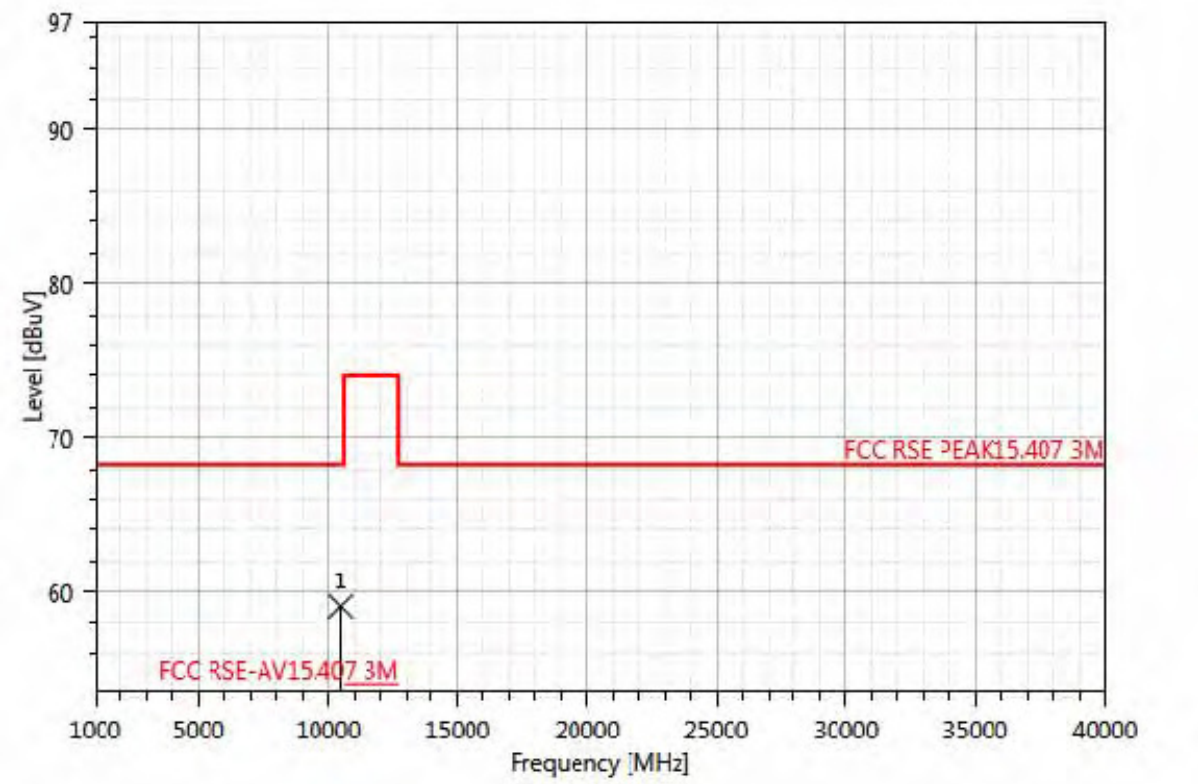
Operation Mode :	802.11n20B1	Test Date :	03/01/2016 20:04:33
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10440.00	H	59.10	40.42	18.68	68.30	-9.20

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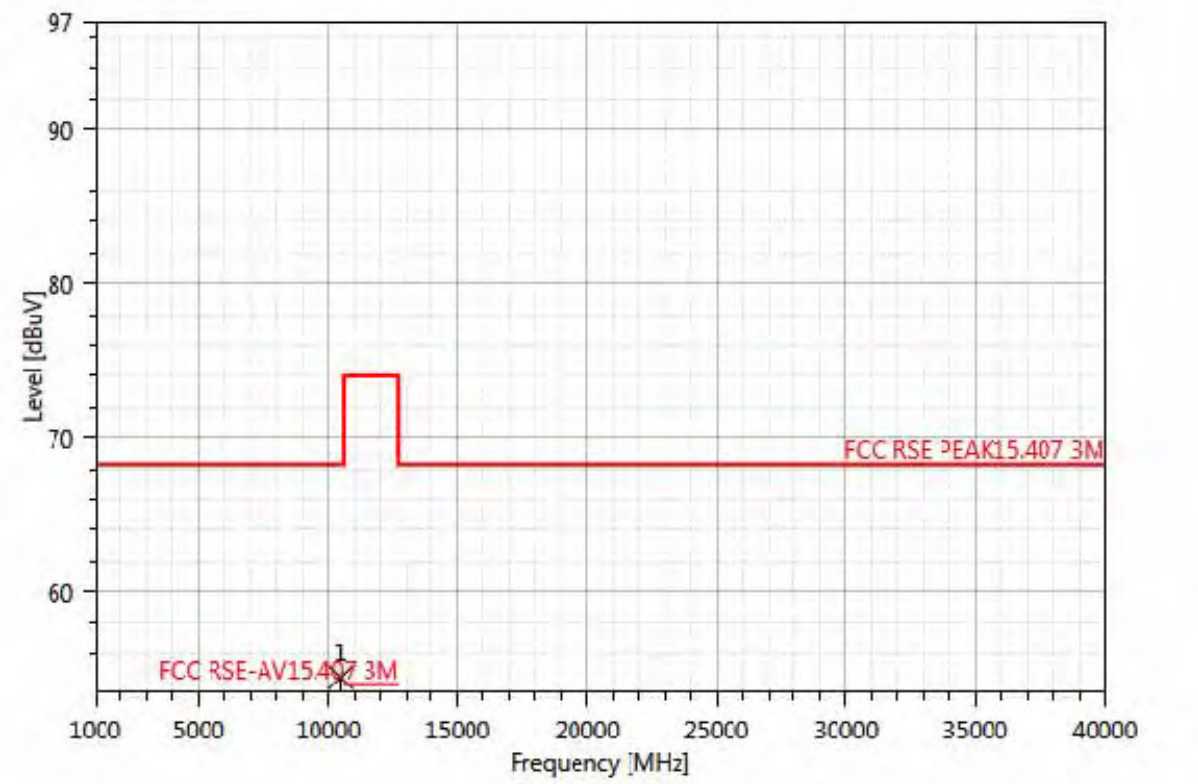
Operation Mode :	802.11n20B1	Test Date :	03/01/2016 20:06:12
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10480.00	H	59.06	40.76	18.29	68.30	-9.24

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Operation Mode :	802.11n20B1	Test Date :	03/01/2016 20:06:26
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

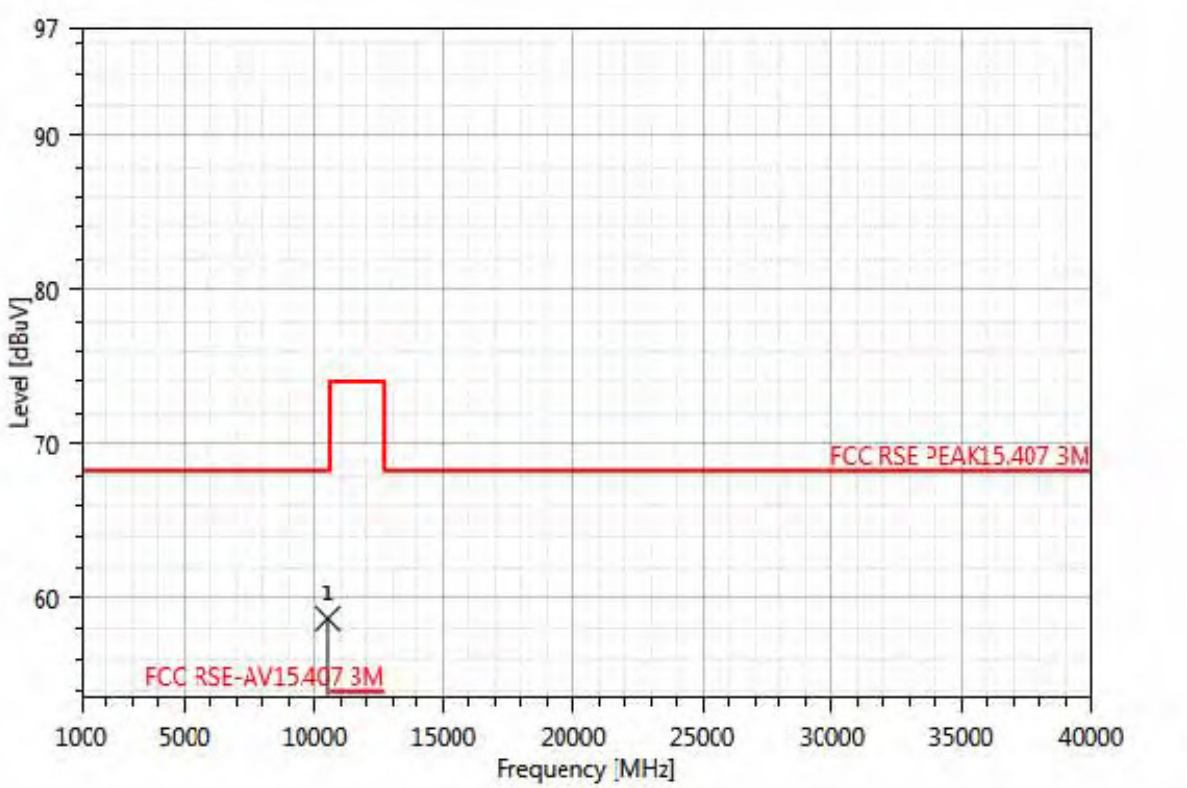


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10480.00	H	54.46	36.17	18.29	68.30	-13.84

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

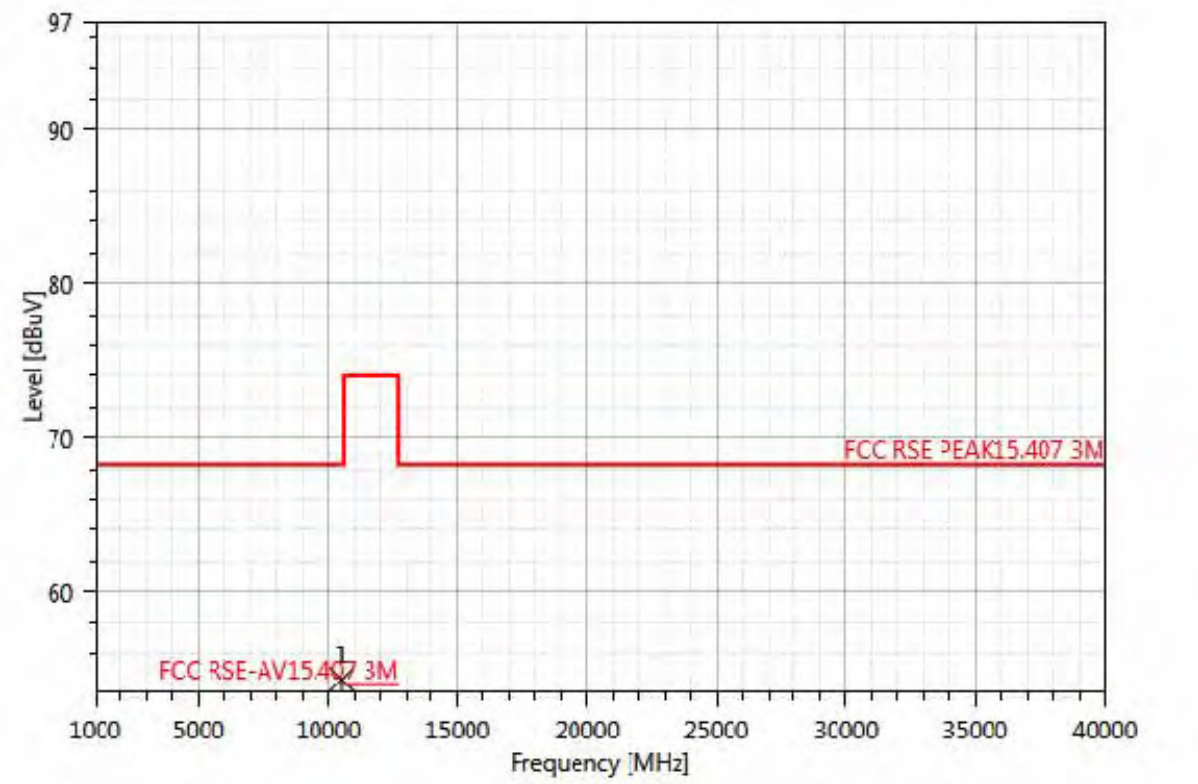
Operation Mode :	802.11n20B2	Test Date :	03/01/2016 20:07:55
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10520.00	H	58.67	39.30	19.37	68.30	-9.63

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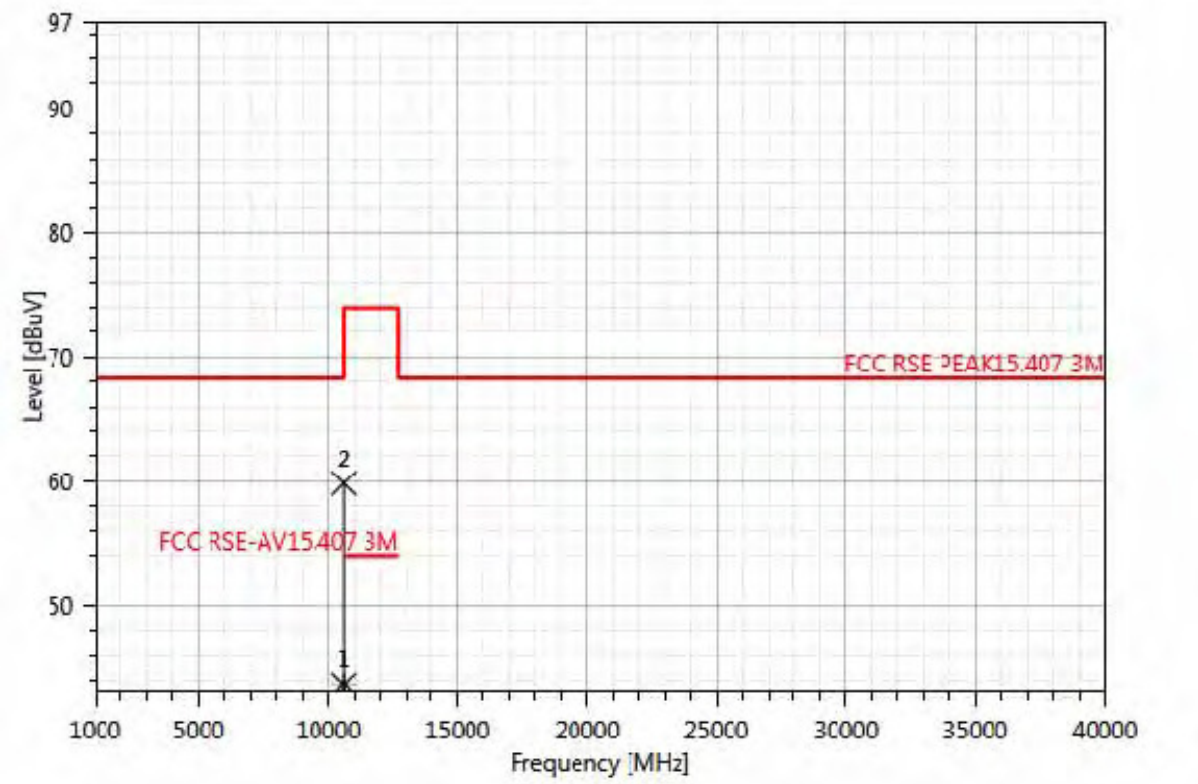
Operation Mode :	802.11n20B2	Test Date :	03/01/2016 20:08:08
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10520.00	H	54.31	34.94	19.37	68.30	-13.99

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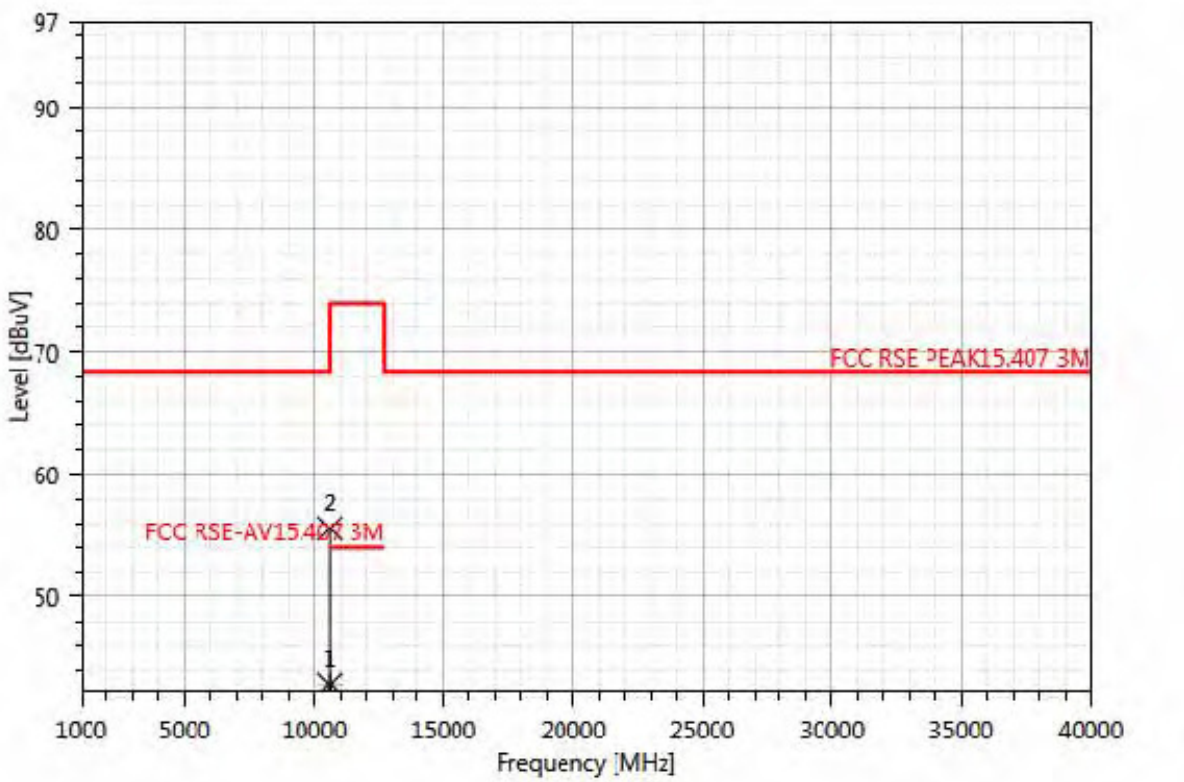
Operation Mode :	802.11n20B2	Test Date :	03/01/2016 20:09:37
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10600.00	H	43.66	24.75	18.91	54.00	-10.34
10600.00	H	59.85	40.94	18.91	74.00	-14.15

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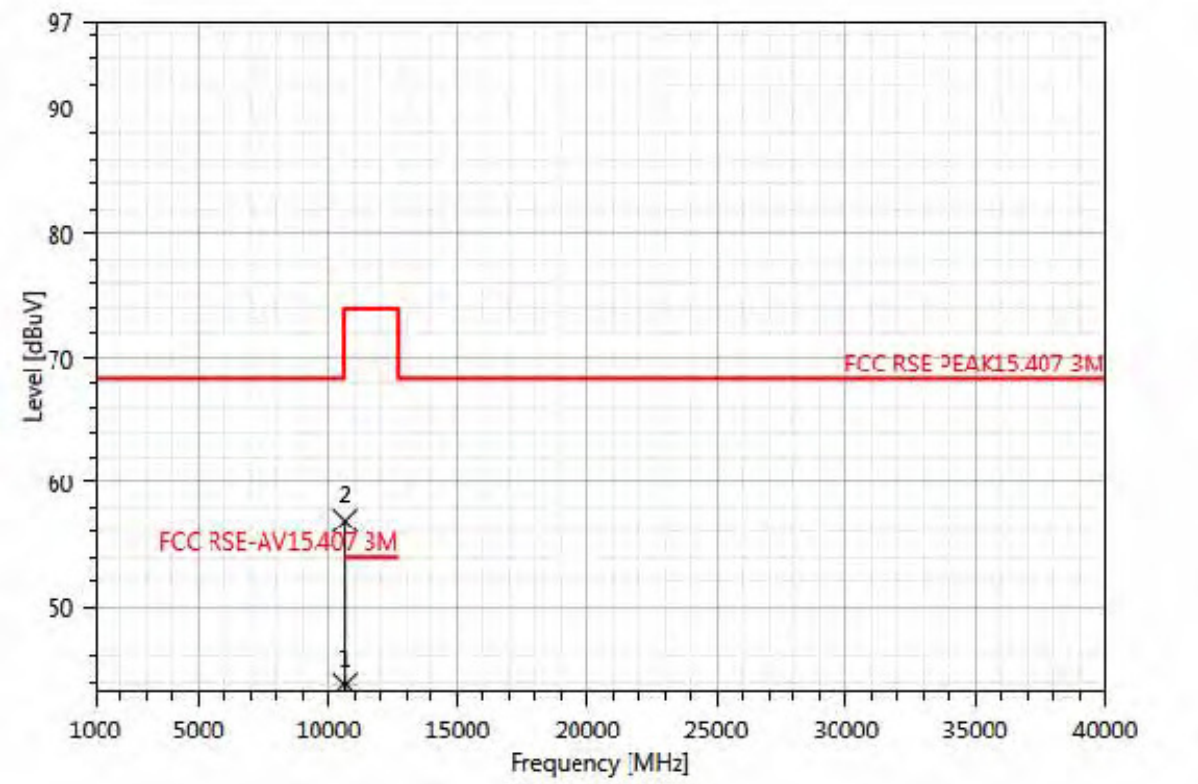
Operation Mode :	802.11n20B2	Test Date :	03/01/2016 20:09:50
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10600.00	H	42.82	23.91	18.91	54.00	-11.18
10600.00	H	55.57	36.66	18.91	74.00	-18.43

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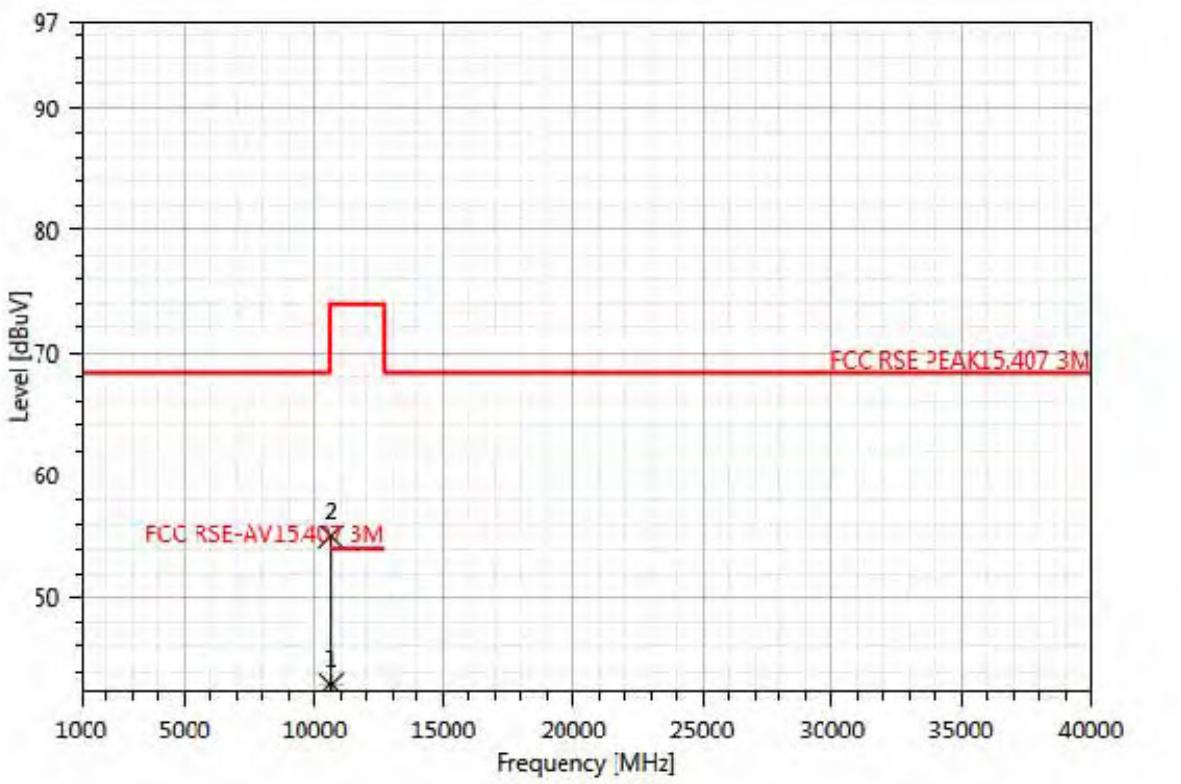
Operation Mode :	802.11n20B2	Test Date :	03/01/2016 20:32:07
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10640.00	H	43.77	24.59	19.18	54.00	-10.23
10640.00	H	56.93	37.74	19.18	74.00	-17.07

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Operation Mode :	802.11n20B2	Test Date :	03/01/2016 20:32:20
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

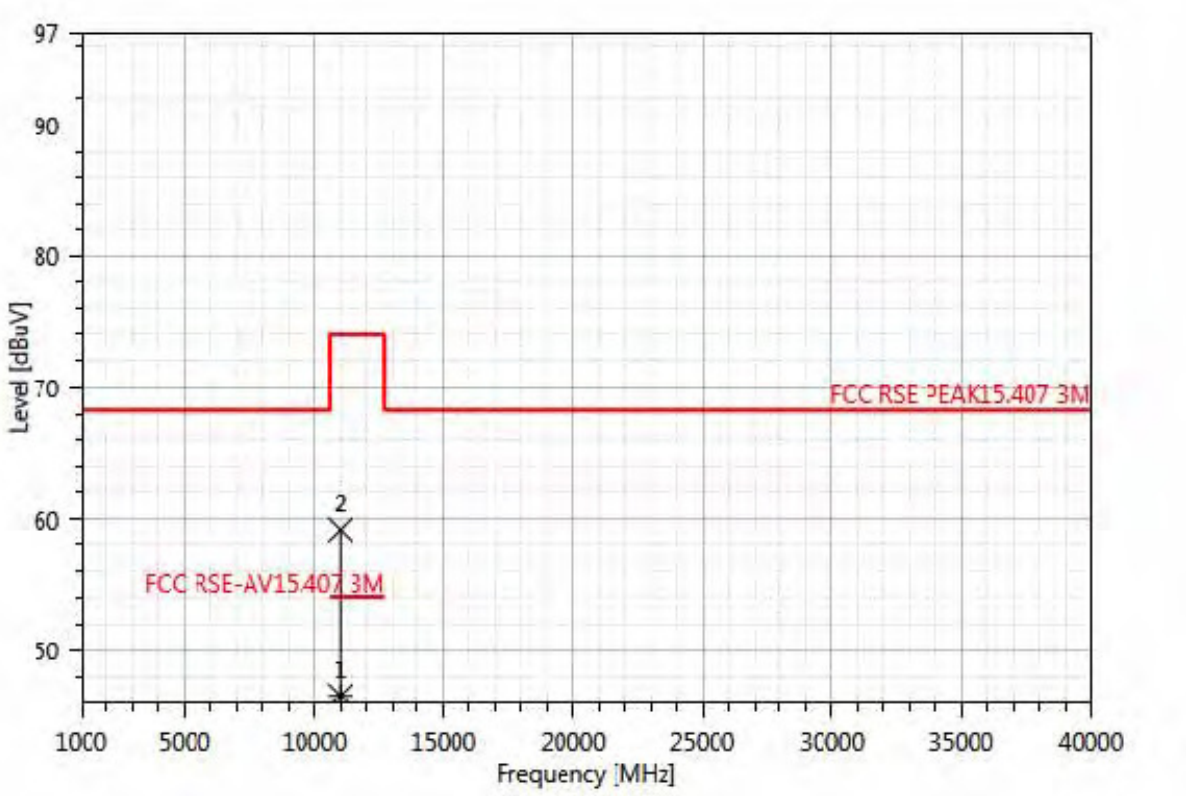


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10640.00	H	42.94	23.76	19.18	54.00	-11.06
10640.00	H	55.00	35.81	19.18	74.00	-19.00

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

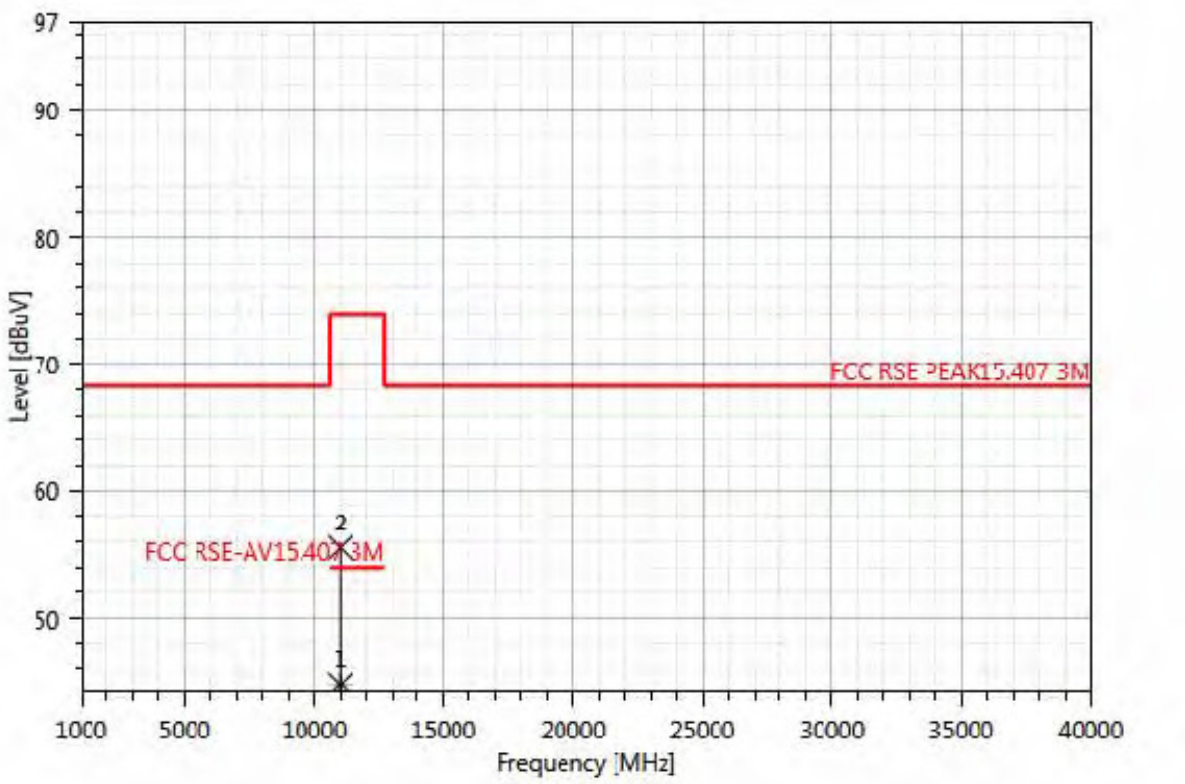
Operation Mode :	802.11n20B3	Test Date :	03/01/2016 20:39:10
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11000.00	H	46.58	26.41	20.17	54.00	-7.42
11000.00	H	59.22	39.05	20.17	74.00	-14.78

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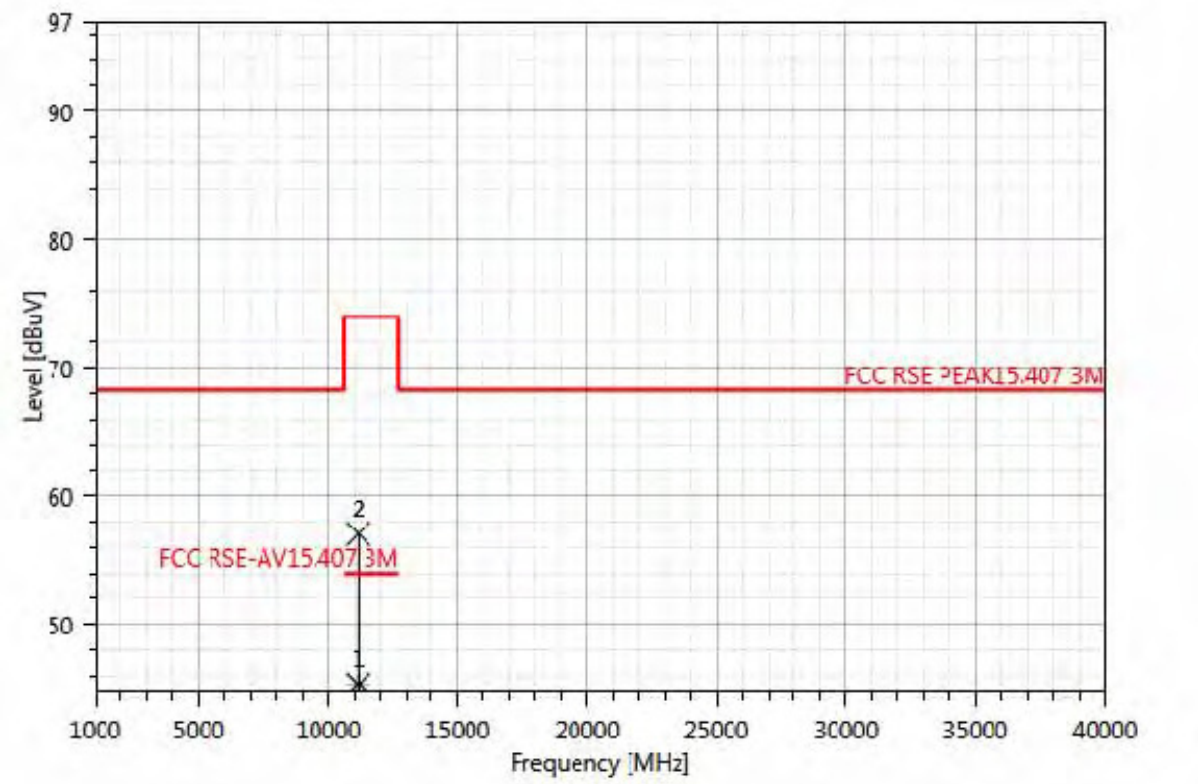
Operation Mode :	802.11n20B3	Test Date :	03/01/2016 20:39:24
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11000.00	H	44.78	24.61	20.17	54.00	-9.22
11000.00	H	55.56	35.40	20.17	74.00	-18.44

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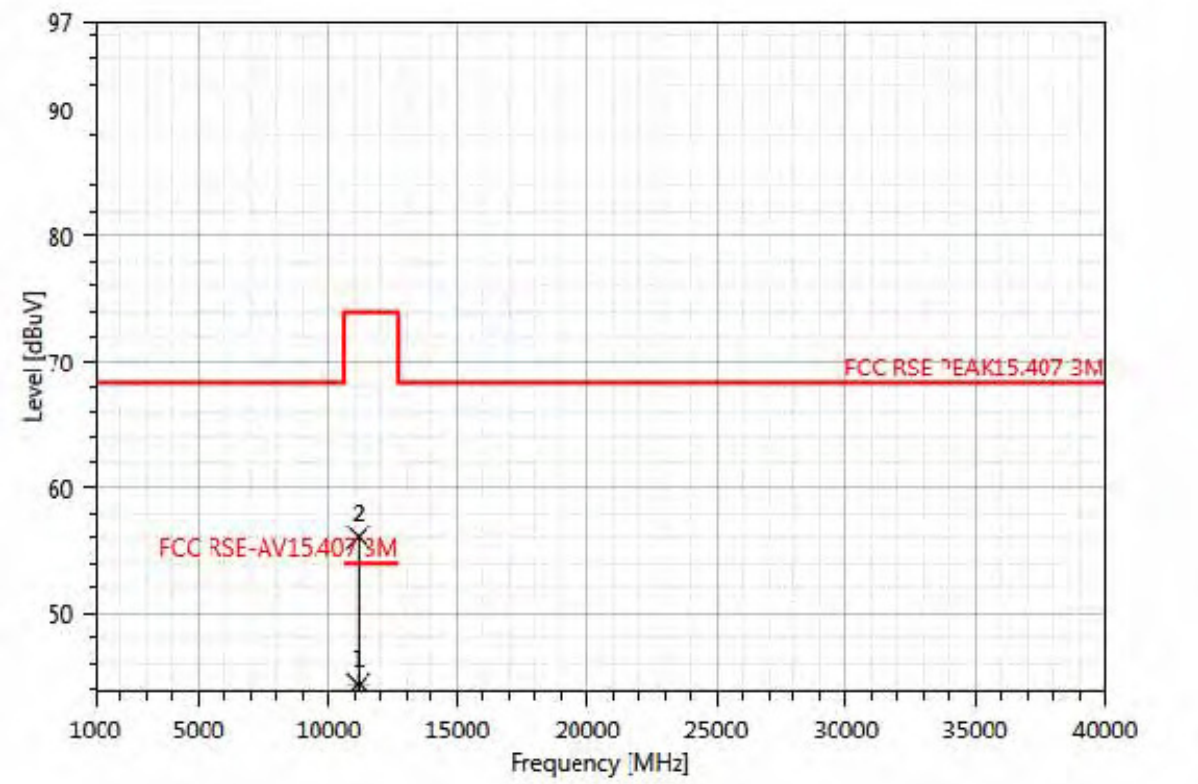
Operation Mode :	802.11n20B3	Test Date :	03/01/2016 20:44:27
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11160.00	H	45.33	24.88	20.45	54.00	-8.67
11160.00	H	57.07	36.63	20.45	74.00	-16.93

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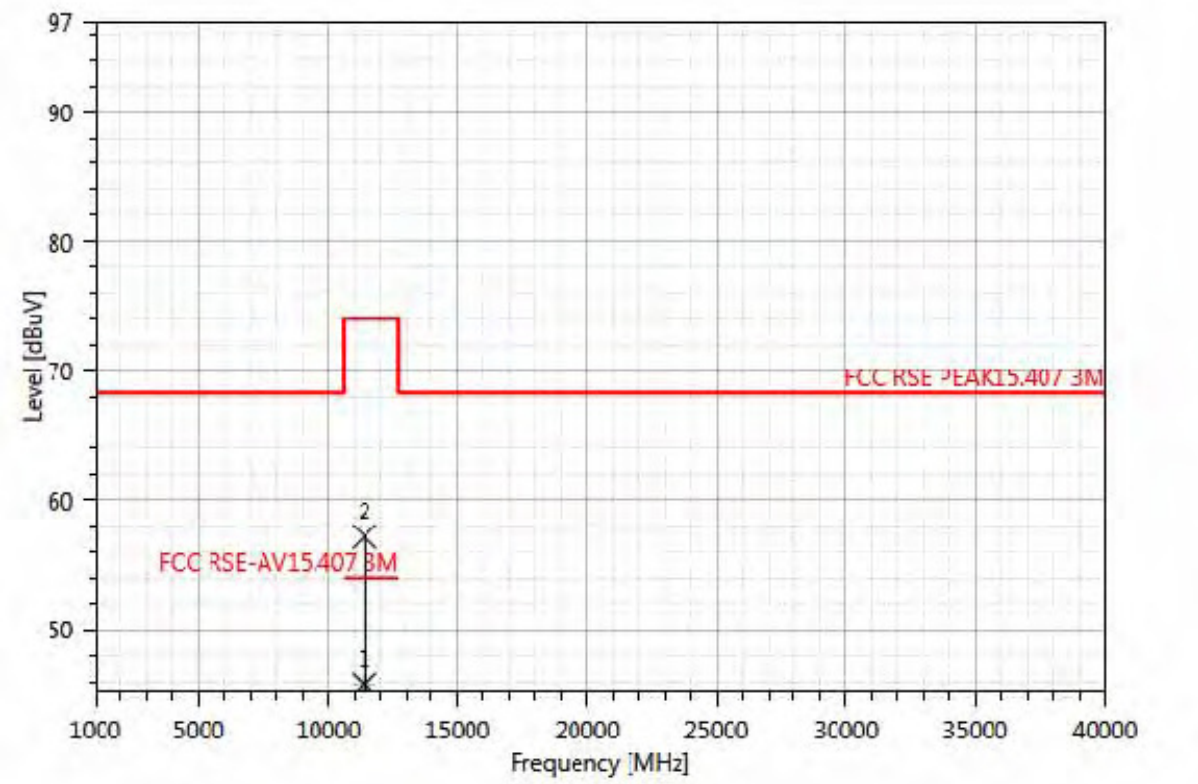
Operation Mode :	802.11n20B3	Test Date :	03/01/2016 20:44:40
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11160.00	H	44.39	23.94	20.45	54.00	-9.61
11160.00	H	56.06	35.62	20.45	74.00	-17.94

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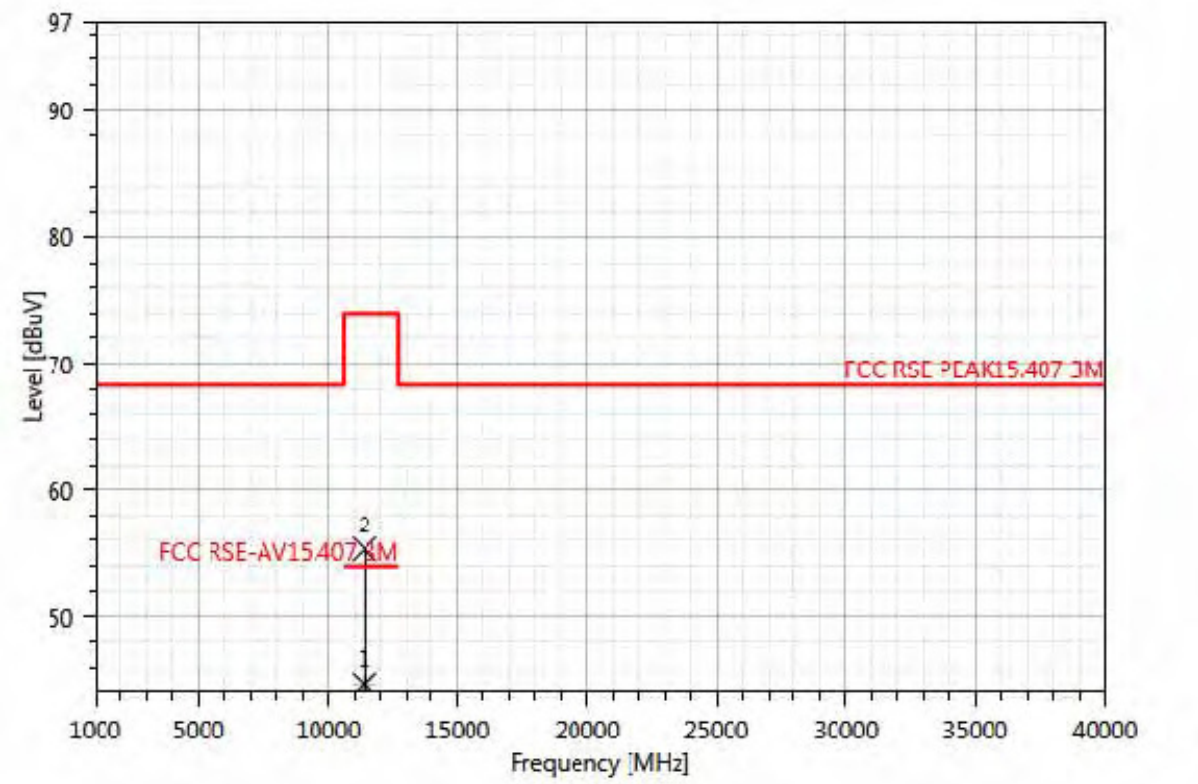
Operation Mode :	802.11n20B3	Test Date :	03/01/2016 20:47:28
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11400.00	H	45.75	25.19	20.56	54.00	-8.25
11400.00	H	57.18	36.62	20.56	74.00	-16.82

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Operation Mode :	802.11n20B3	Test Date :	03/01/2016 20:47:42
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

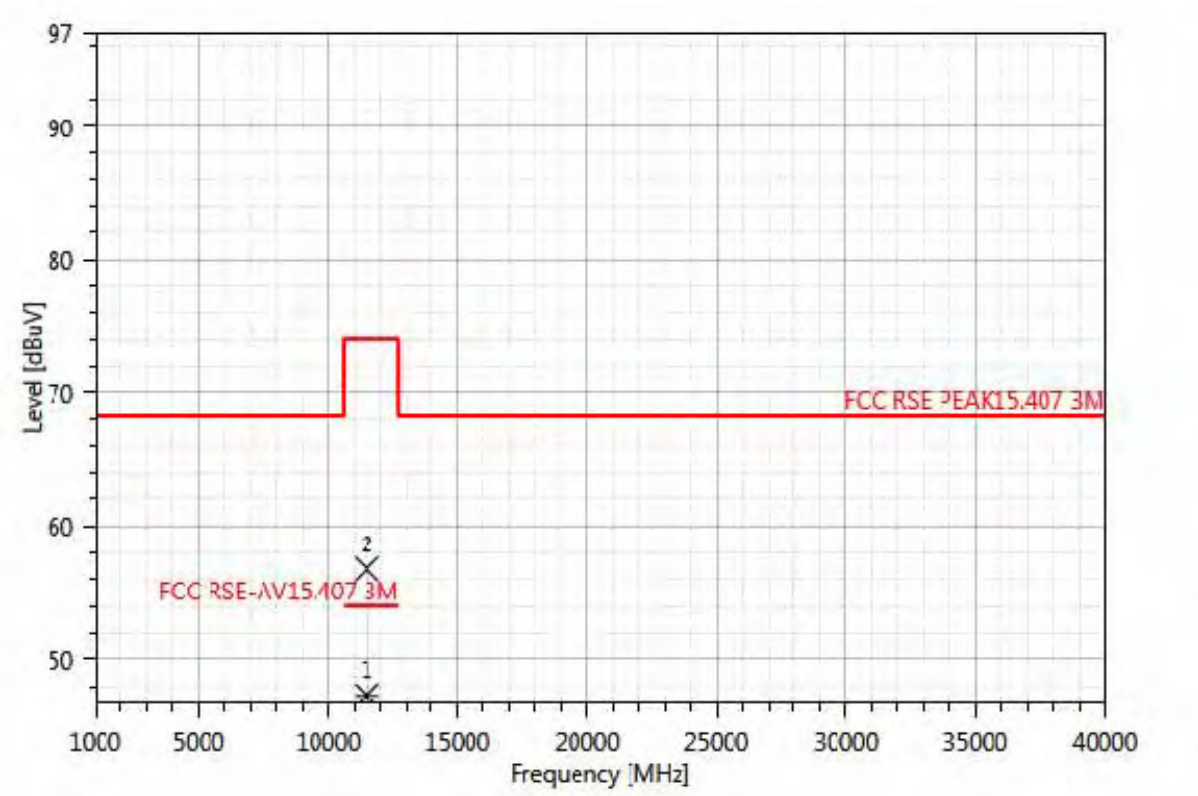


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11400.00	H	44.65	24.09	20.56	54.00	-9.35
11400.00	H	55.35	34.79	20.56	74.00	-18.65

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

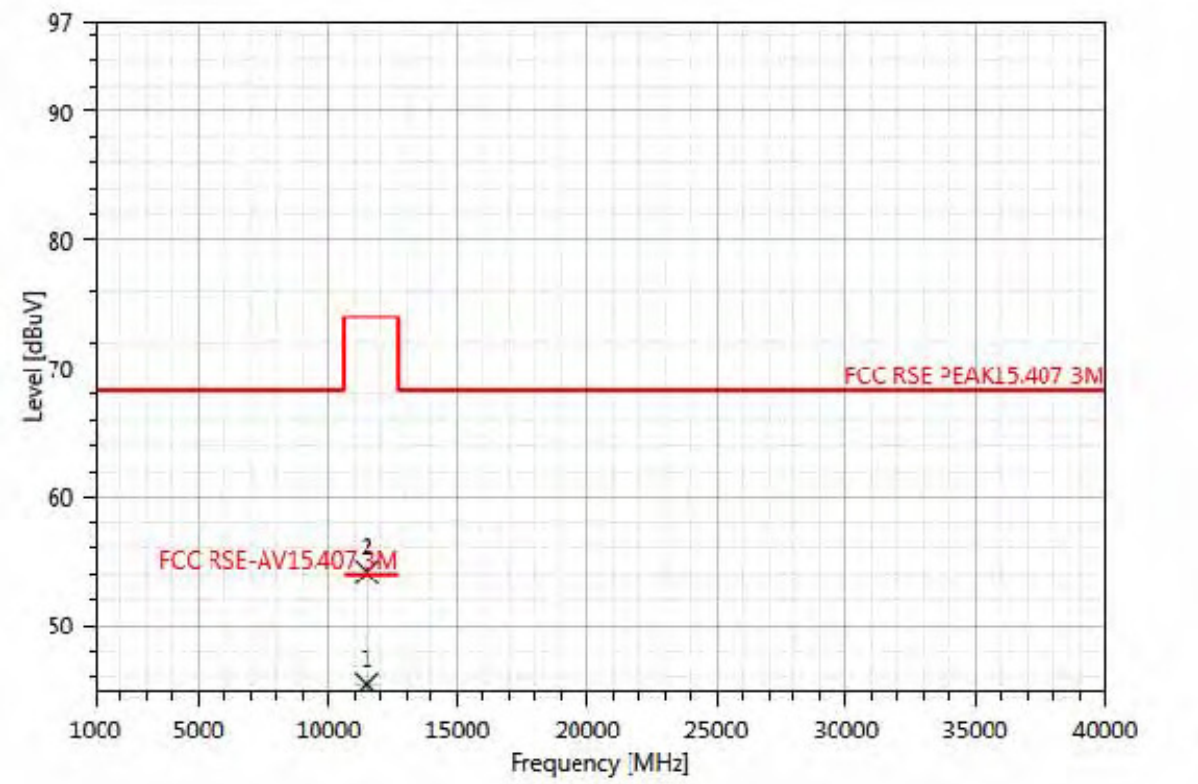
Operation Mode :	802.11n20B4	Test Date :	03/01/2016 20:53:04
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11490.00	H	47.30	26.88	20.42	54.00	-6.70
11490.00	H	56.81	36.39	20.42	74.00	-17.19

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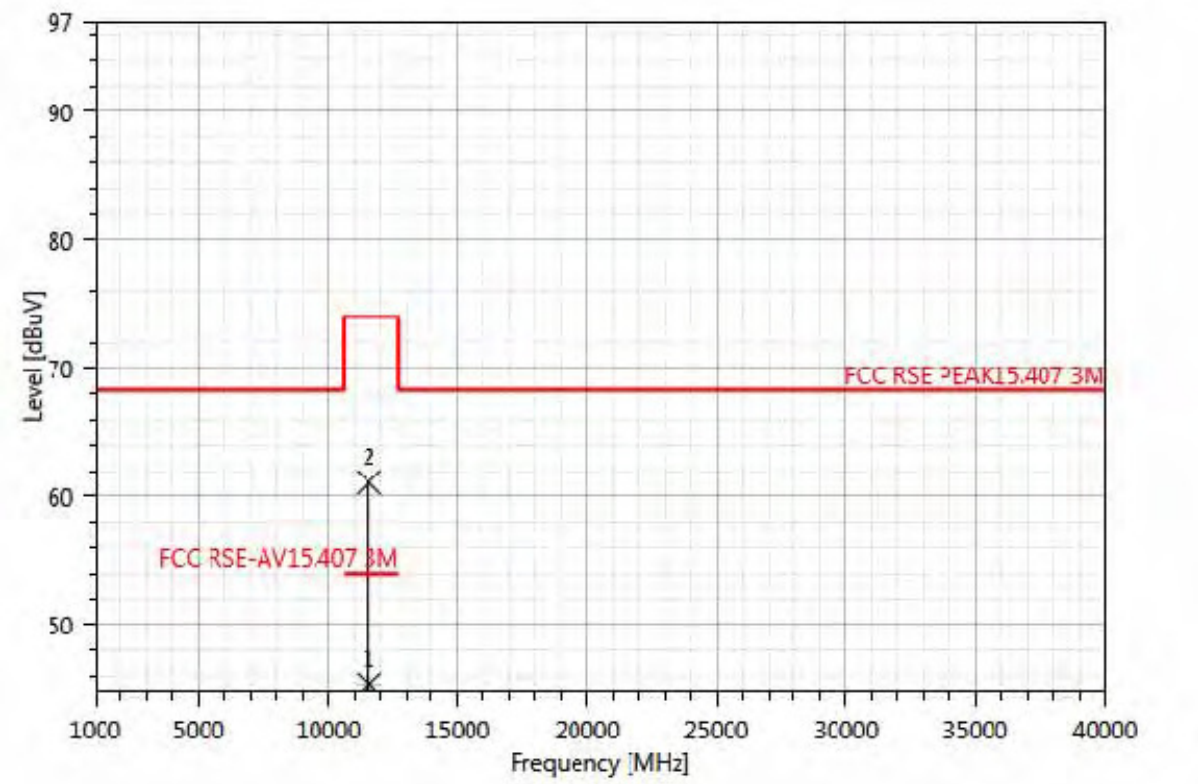
Operation Mode :	802.11n20B4	Test Date :	03/01/2016 20:53:17
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11490.00	H	45.40	24.98	20.42	54.00	-8.60
11490.00	H	54.14	33.72	20.42	74.00	-19.86

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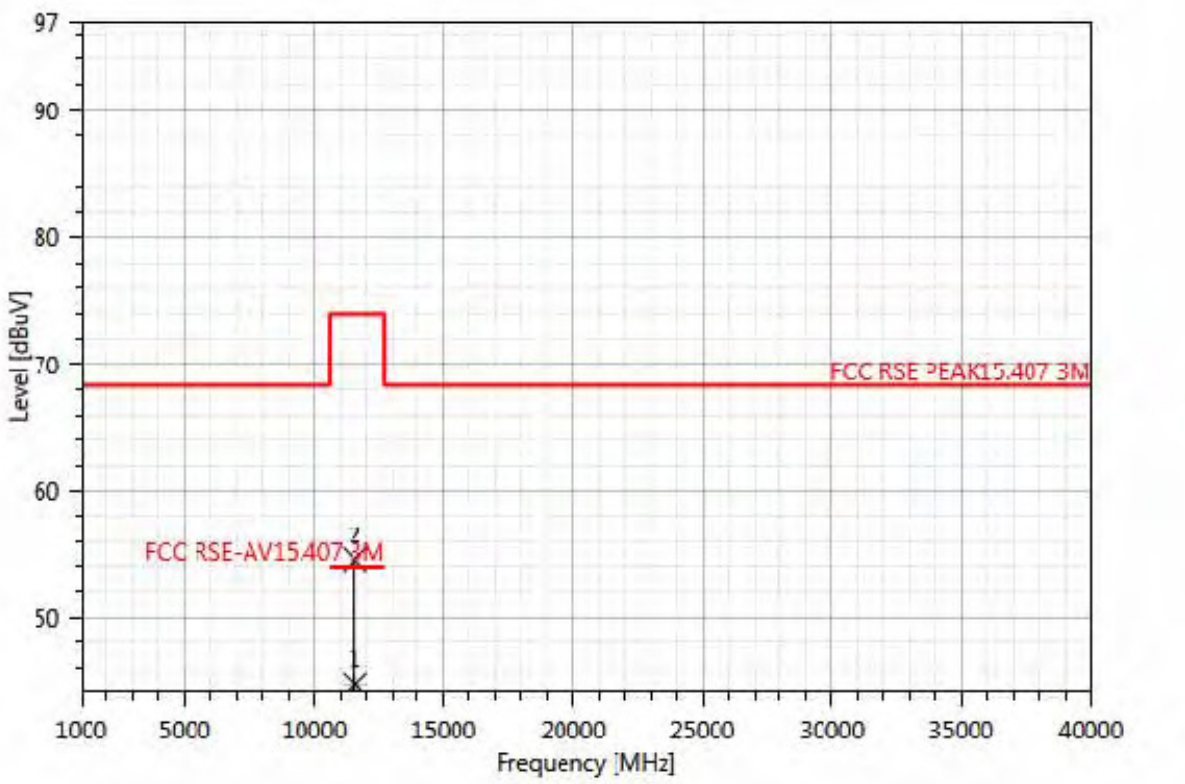
Operation Mode :	802.11n20B4	Test Date :	03/01/2016 20:56:25
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11570.00	H	45.34	24.75	20.59	54.00	-8.66
11570.00	H	61.09	40.51	20.59	74.00	-12.91

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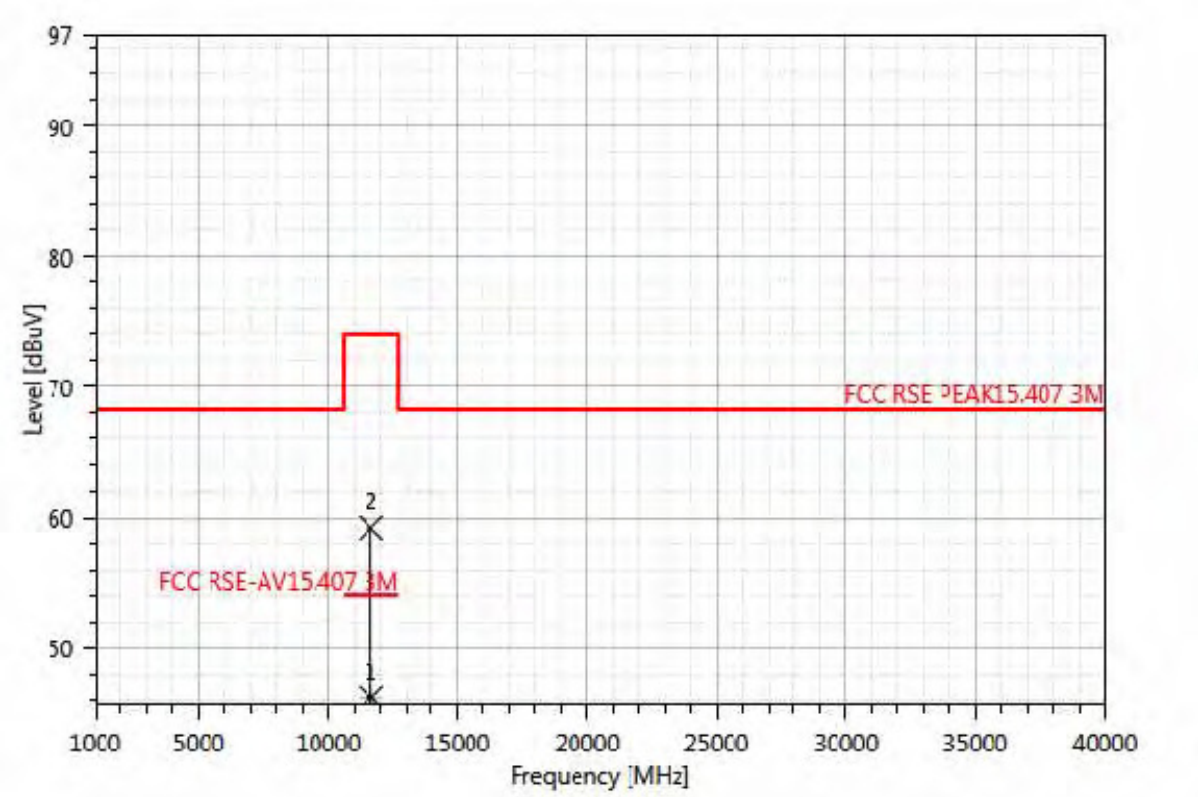
Operation Mode :	802.11n20B4	Test Date :	03/01/2016 20:56:39
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11570.00	H	44.72	24.13	20.59	54.00	-9.28
11570.00	H	54.58	33.99	20.59	74.00	-19.42

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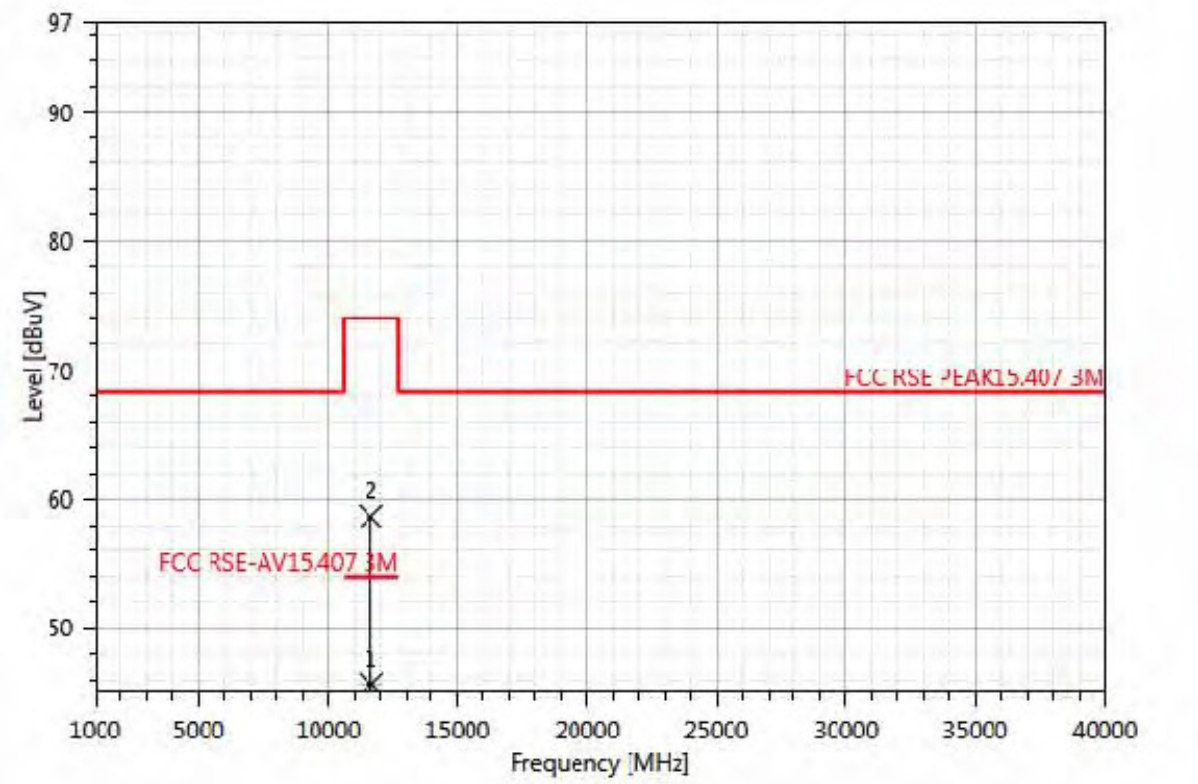
Operation Mode :	802.11n20B4	Test Date :	03/01/2016 21:01:21
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11650.00	H	46.24	25.81	20.43	54.00	-7.76
11650.00	H	59.25	38.82	20.43	74.00	-14.75

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Operation Mode :	802.11n20B4	Test Date :	03/01/2016 21:01:34
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

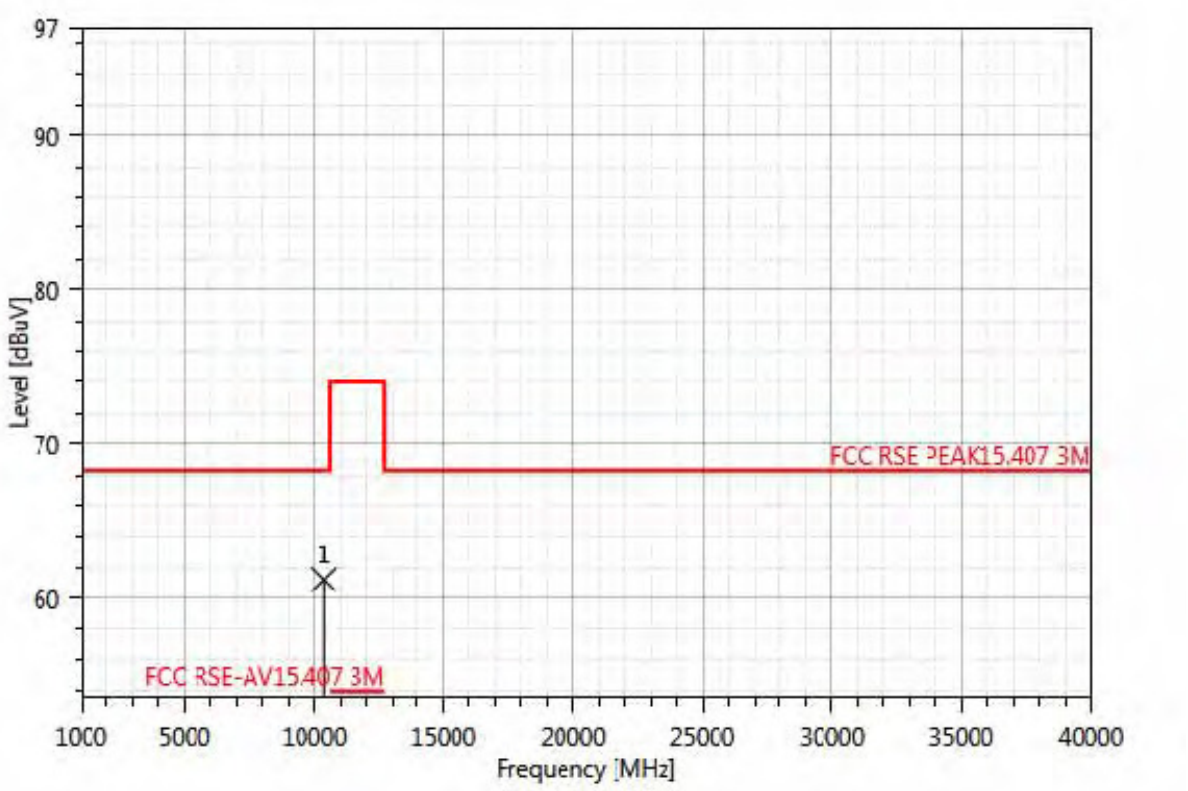


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11650.00	H	45.62	25.19	20.43	54.00	-8.38
11650.00	H	58.65	38.21	20.43	74.00	-15.35

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

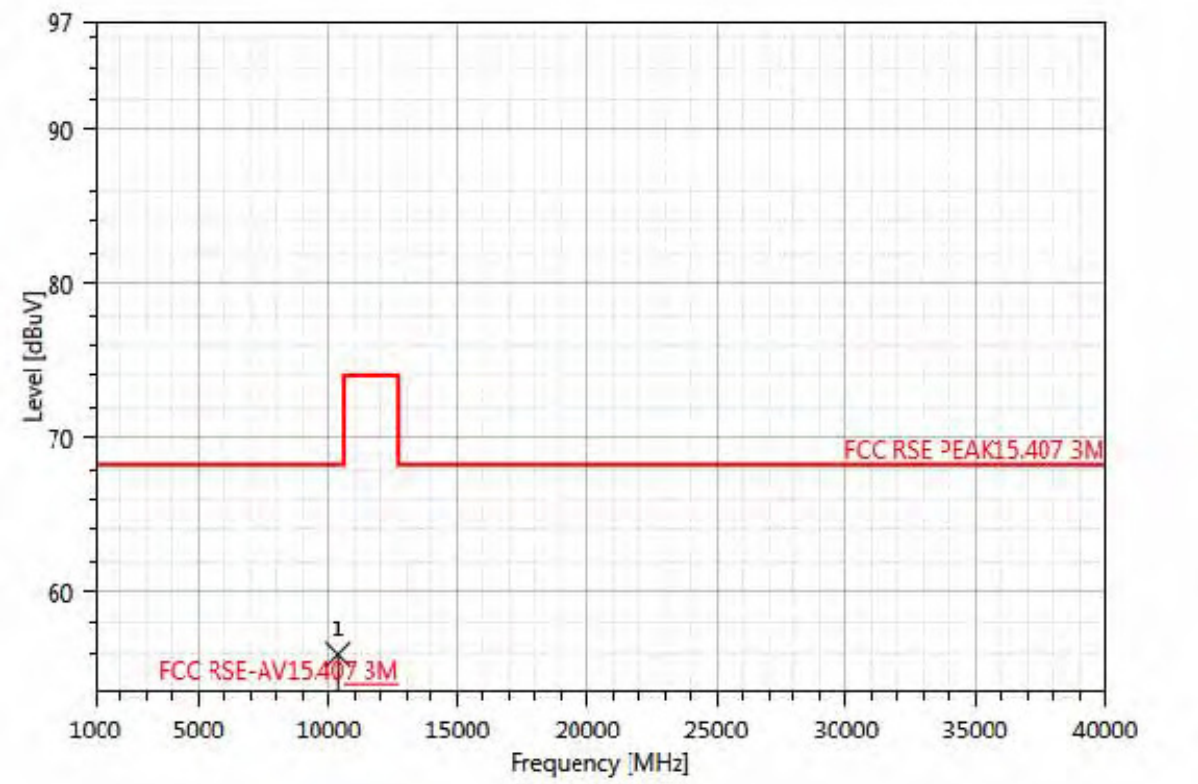
Operation Mode :	802.11n40B1	Test Date :	03/01/2016 20:14:51
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10380.00	H	61.21	43.08	18.12	68.30	-7.09

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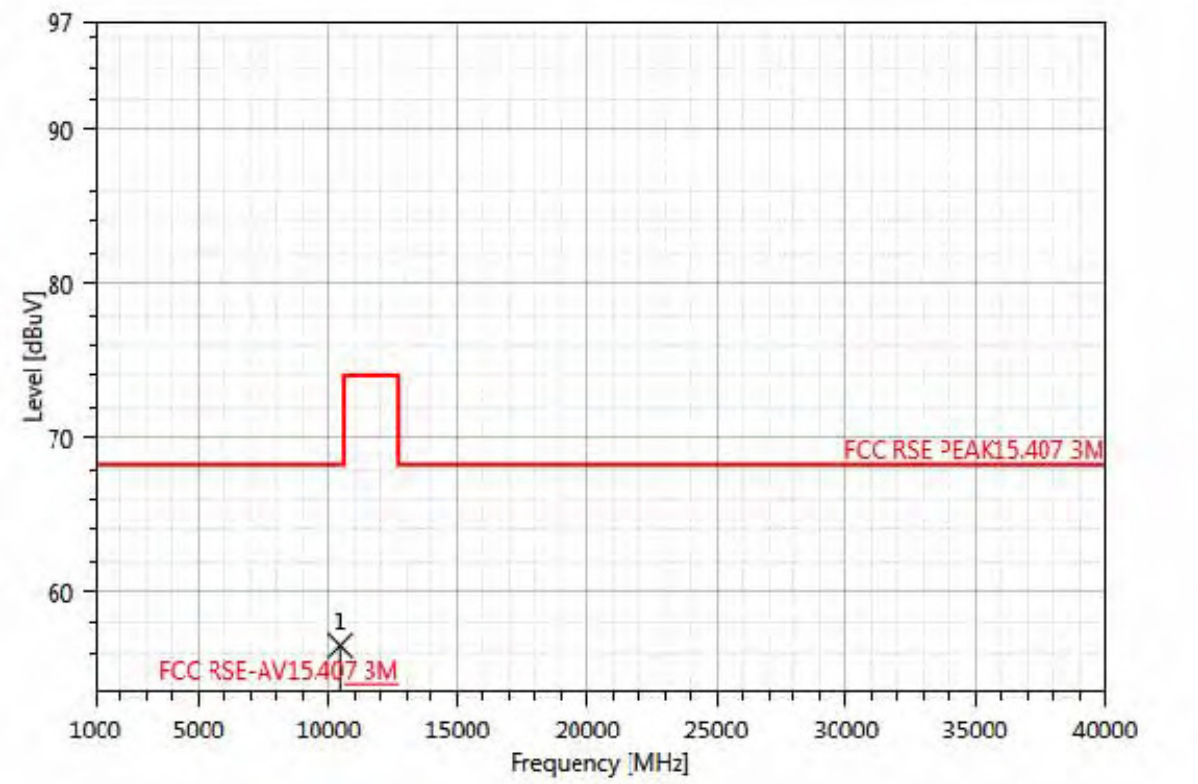
Operation Mode :	802.11n40B1	Test Date :	03/01/2016 20:15:05
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10380.00	H	55.93	37.81	18.12	68.30	-12.37

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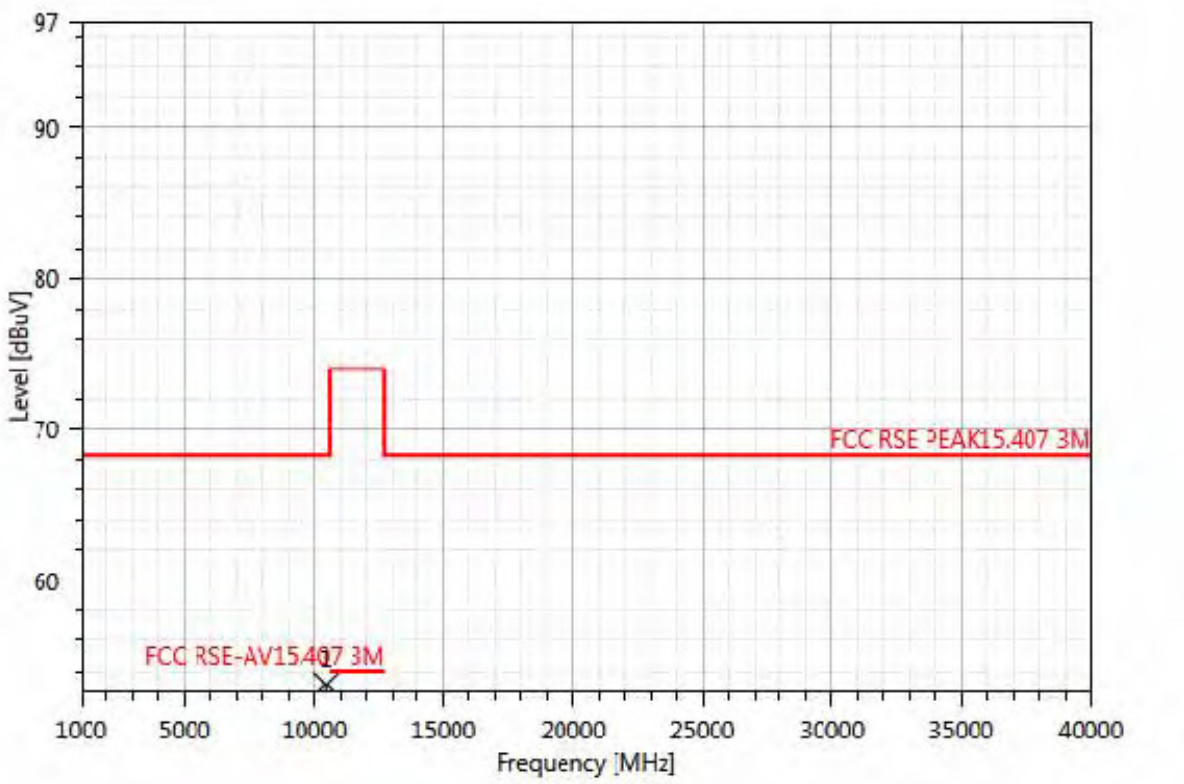
Operation Mode :	802.11n40B1	Test Date :	03/01/2016 20:16:56
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10460.00	H	56.49	37.95	18.54	68.30	-11.81

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Operation Mode :	802.11n40B1	Test Date :	03/01/2016 20:17:09
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

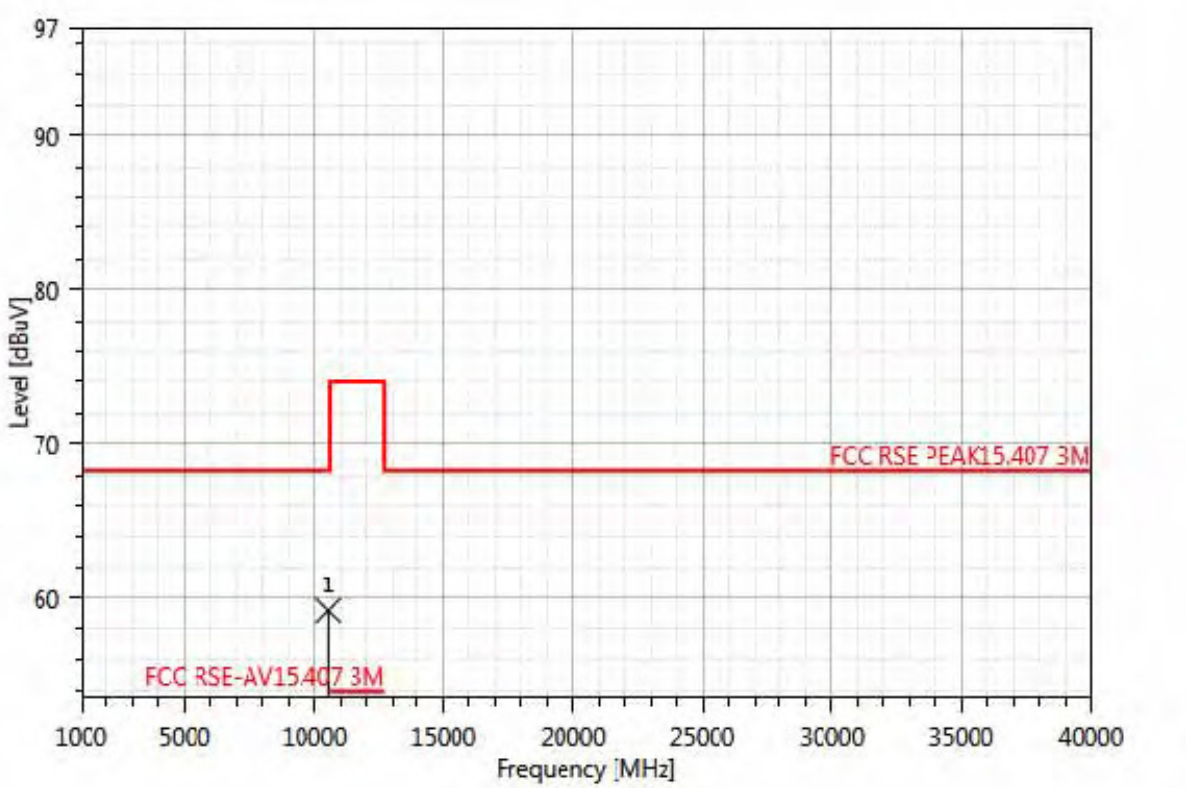


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10460.00	H	53.11	34.57	18.54	68.30	-15.19

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

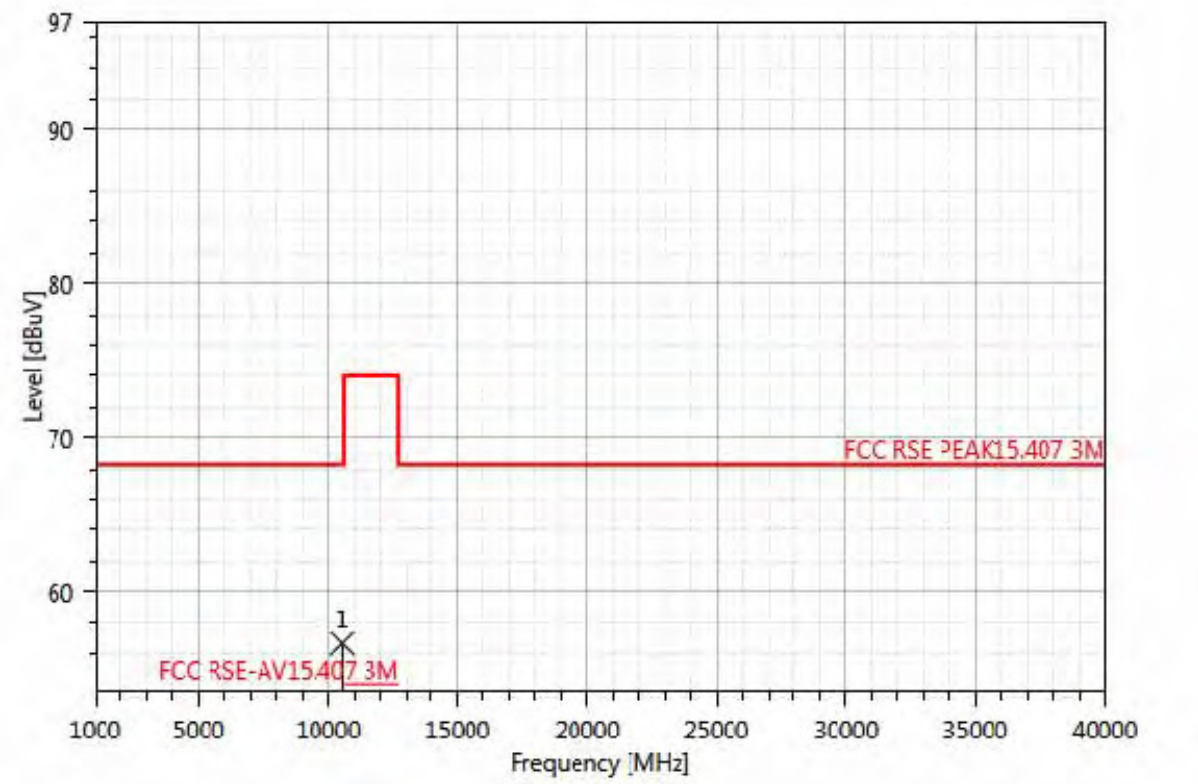
Operation Mode :	802.11n40B2	Test Date :	03/01/2016 20:18:52
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10540.00	H	59.18	40.01	19.17	68.30	-9.12

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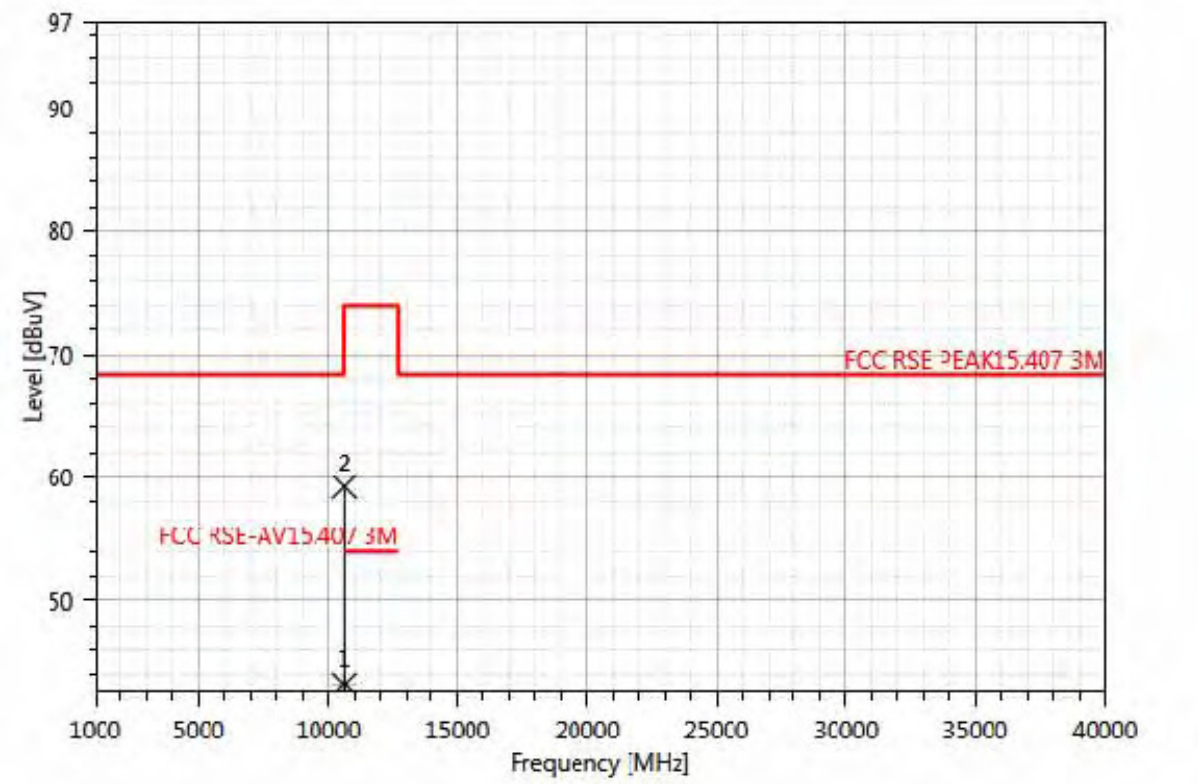
Operation Mode :	802.11n40B2	Test Date :	03/01/2016 20:19:06
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10540.00	H	56.65	37.48	19.17	68.30	-11.65

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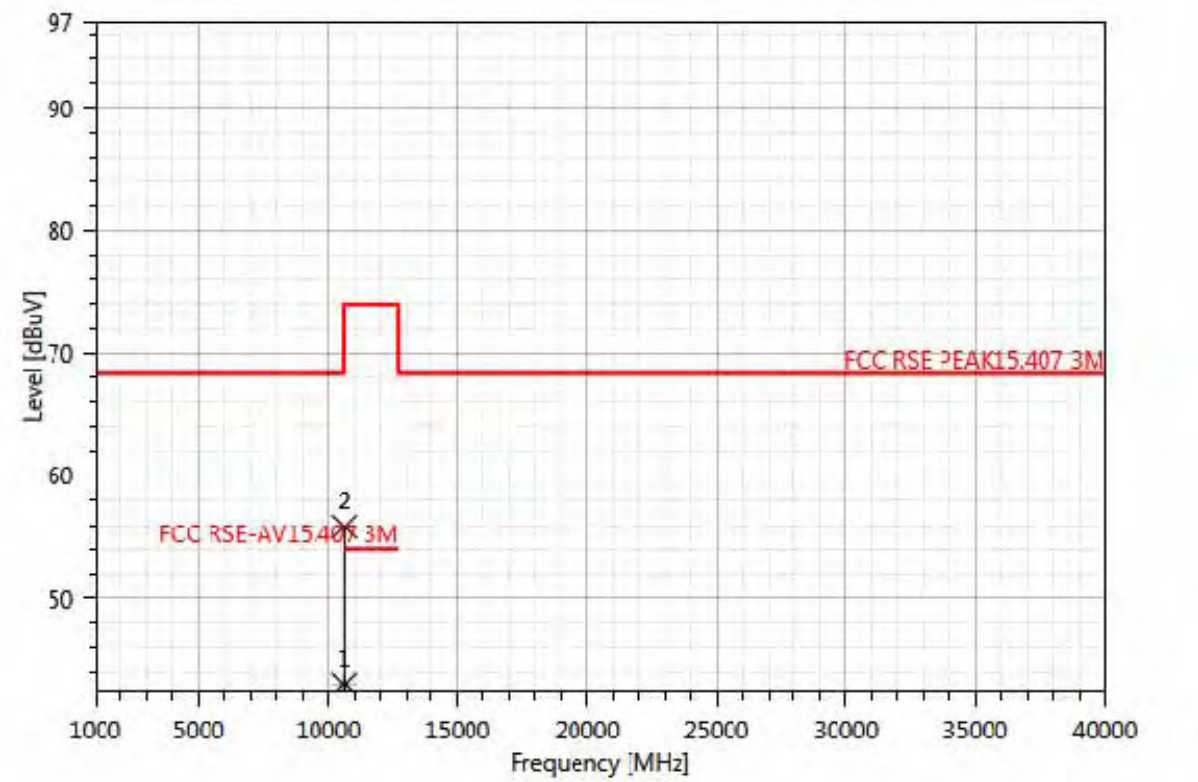
Operation Mode :	802.11n40B2	Test Date :	03/01/2016 20:20:54
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10620.00	H	43.22	24.11	19.11	54.00	-10.78
10620.00	H	59.26	40.15	19.11	74.00	-14.74

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Operation Mode :	802.11n40B2	Test Date :	03/01/2016 20:21:08
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

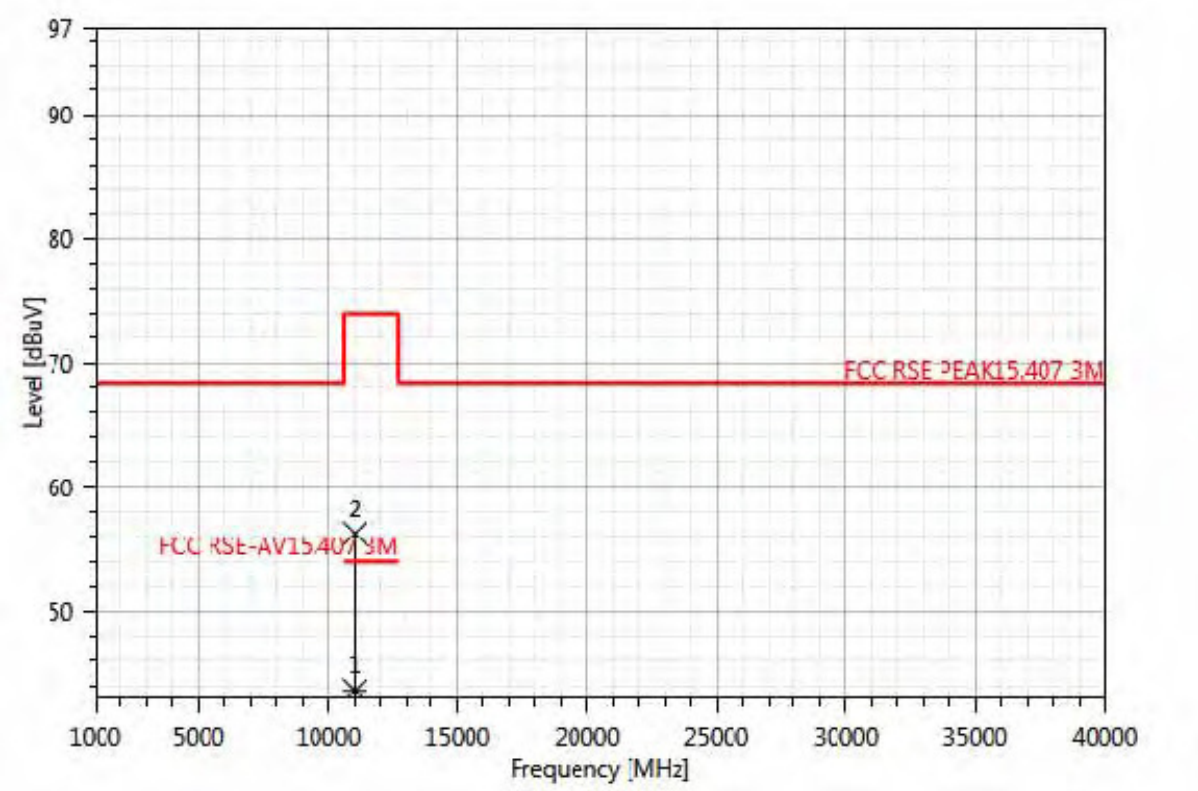


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10620.00	H	42.99	23.88	19.11	54.00	-11.01
10620.00	H	55.85	36.74	19.11	74.00	-18.15

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

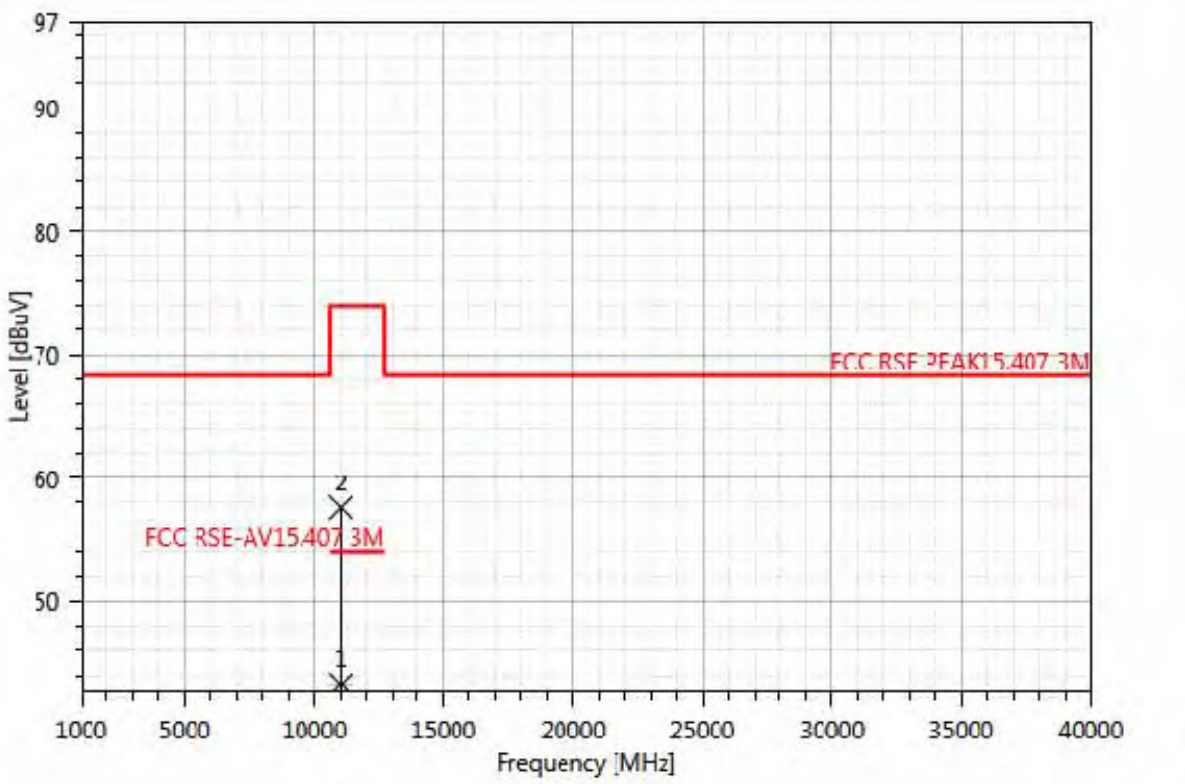
Operation Mode :	802.11n40B3	Test Date :	03/01/2016 21:14:14
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11020.00	H	43.60	23.44	20.16	54.00	-10.40
11020.00	H	56.27	36.11	20.16	74.00	-17.73

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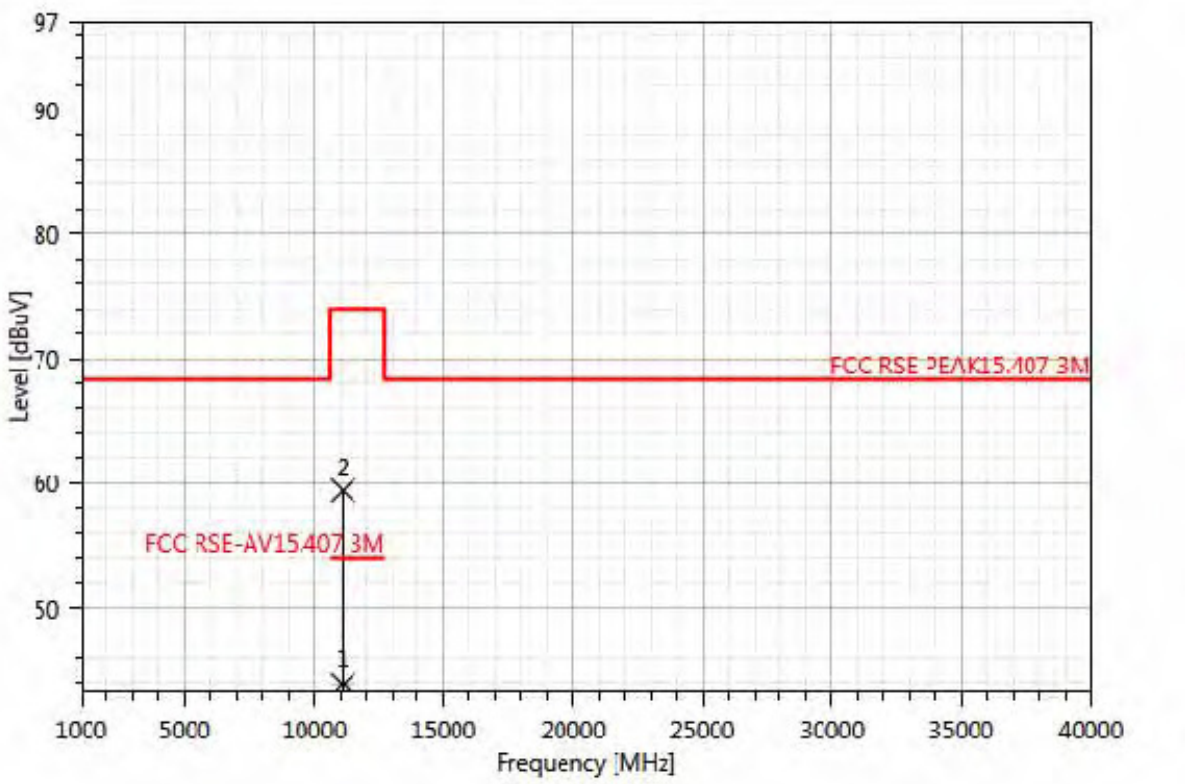
Operation Mode :	802.11n40B3	Test Date :	03/01/2016 21:14:28
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11020.00	H	43.26	23.10	20.16	54.00	-10.74
11020.00	H	57.63	37.47	20.16	74.00	-16.37

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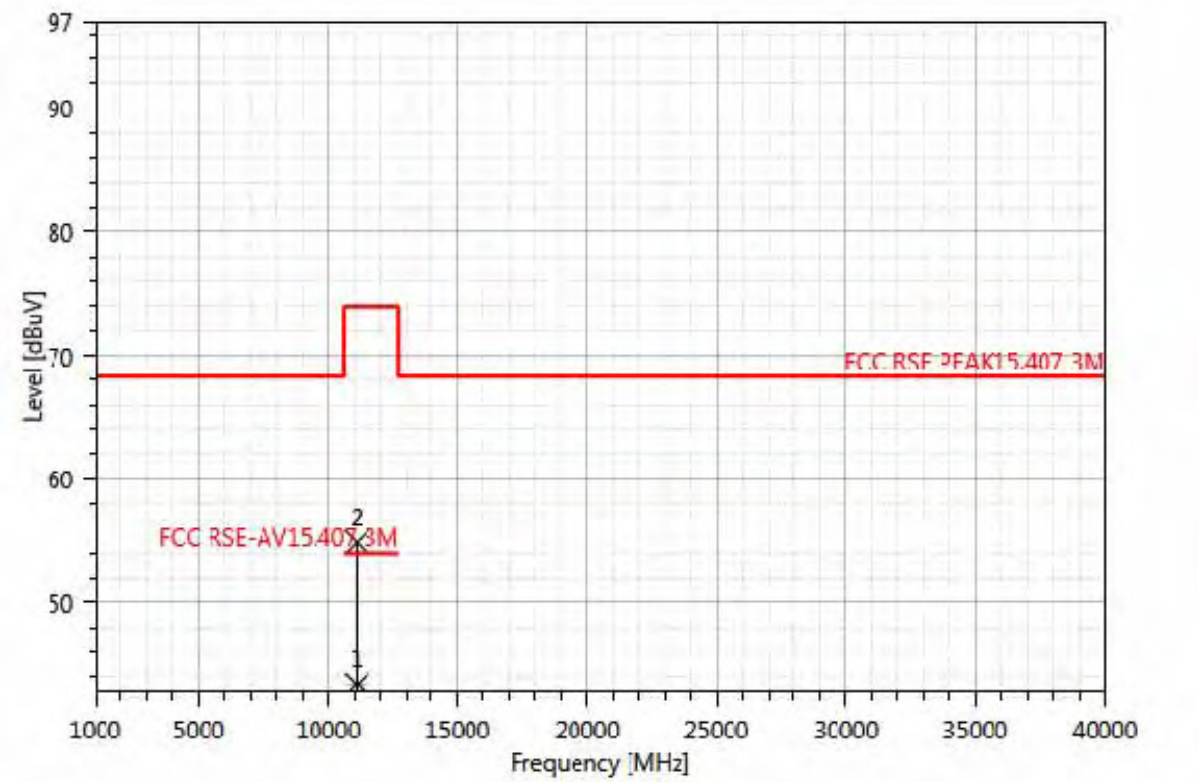
Operation Mode :	802.11n40B3	Test Date :	03/01/2016 21:17:08
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11100.00	H	43.87	23.55	20.32	54.00	-10.13
11100.00	H	59.39	39.07	20.32	74.00	-14.61

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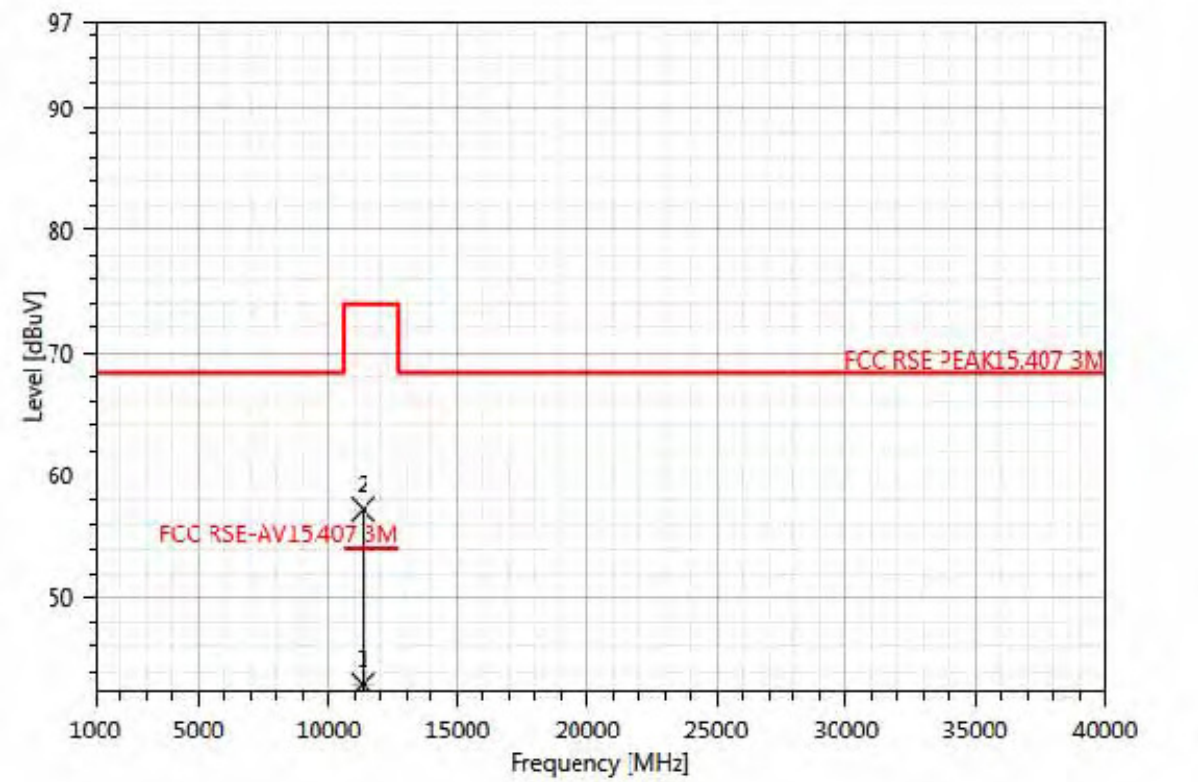
Operation Mode :	802.11n40B3	Test Date :	03/01/2016 21:17:22
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11100.00	H	43.40	23.08	20.32	54.00	-10.60
11100.00	H	54.86	34.54	20.32	74.00	-19.14

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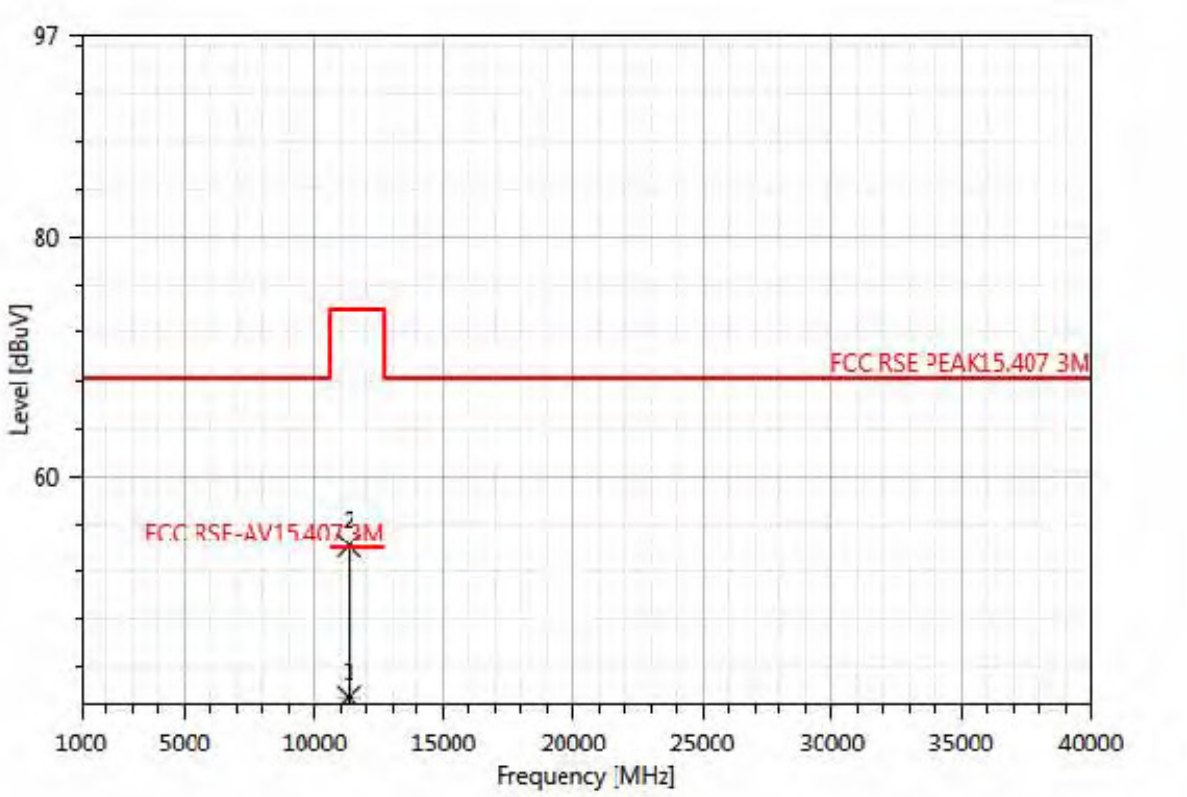
Operation Mode :	802.11n40B3	Test Date :	03/01/2016 21:24:42
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11340.00	H	42.93	22.55	20.38	54.00	-11.07
11340.00	H	57.24	36.86	20.38	74.00	-16.76

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Operation Mode :	802.11n40B3	Test Date :	03/01/2016 21:24:56
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

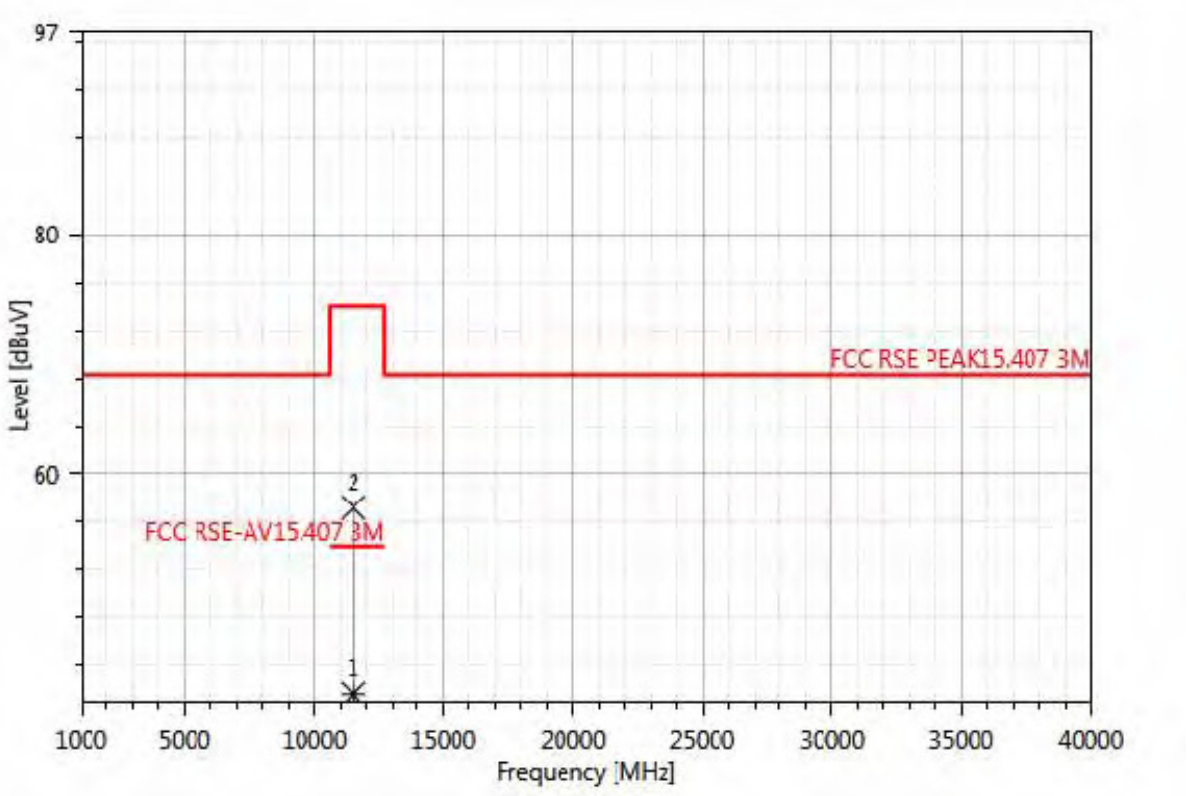


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11340.00	H	41.47	21.09	20.38	54.00	-12.53
11340.00	H	54.20	33.82	20.38	74.00	-19.80

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

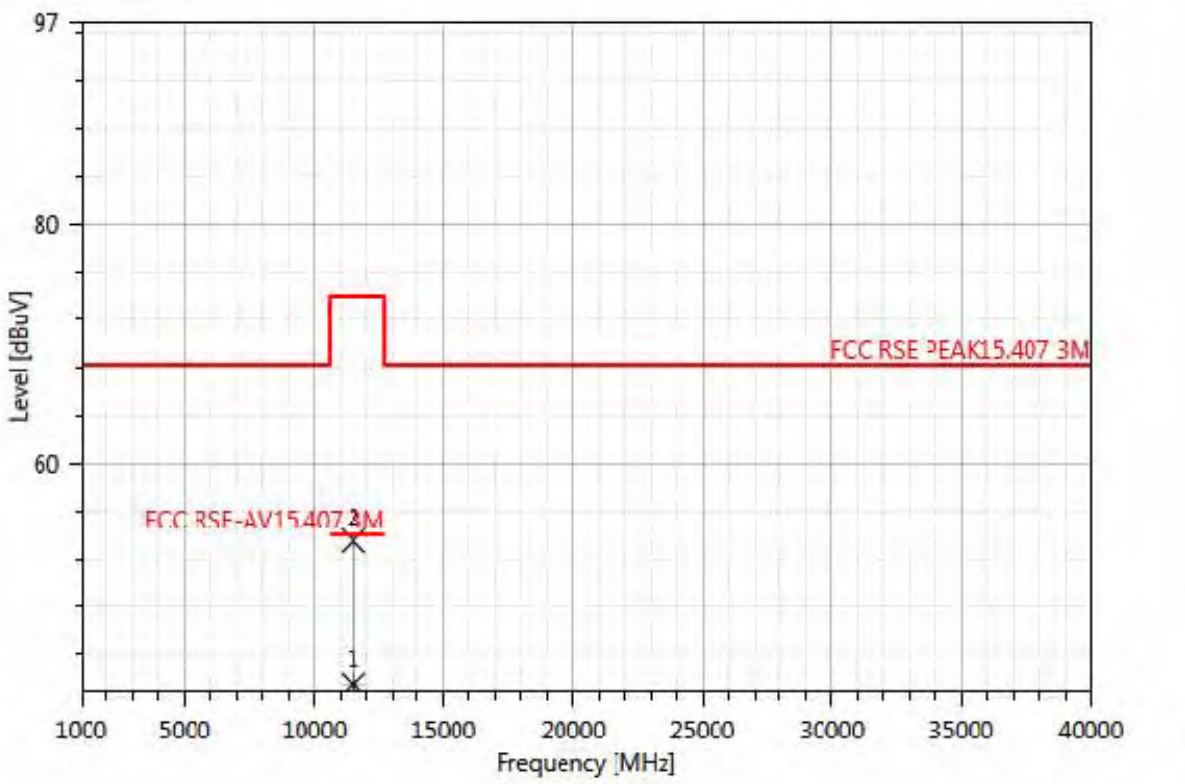
Operation Mode :	802.11n40B4	Test Date :	03/01/2016 21:08:10
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11510.00	H	41.61	21.22	20.39	54.00	-12.39
11510.00	H	57.20	36.81	20.39	74.00	-16.80

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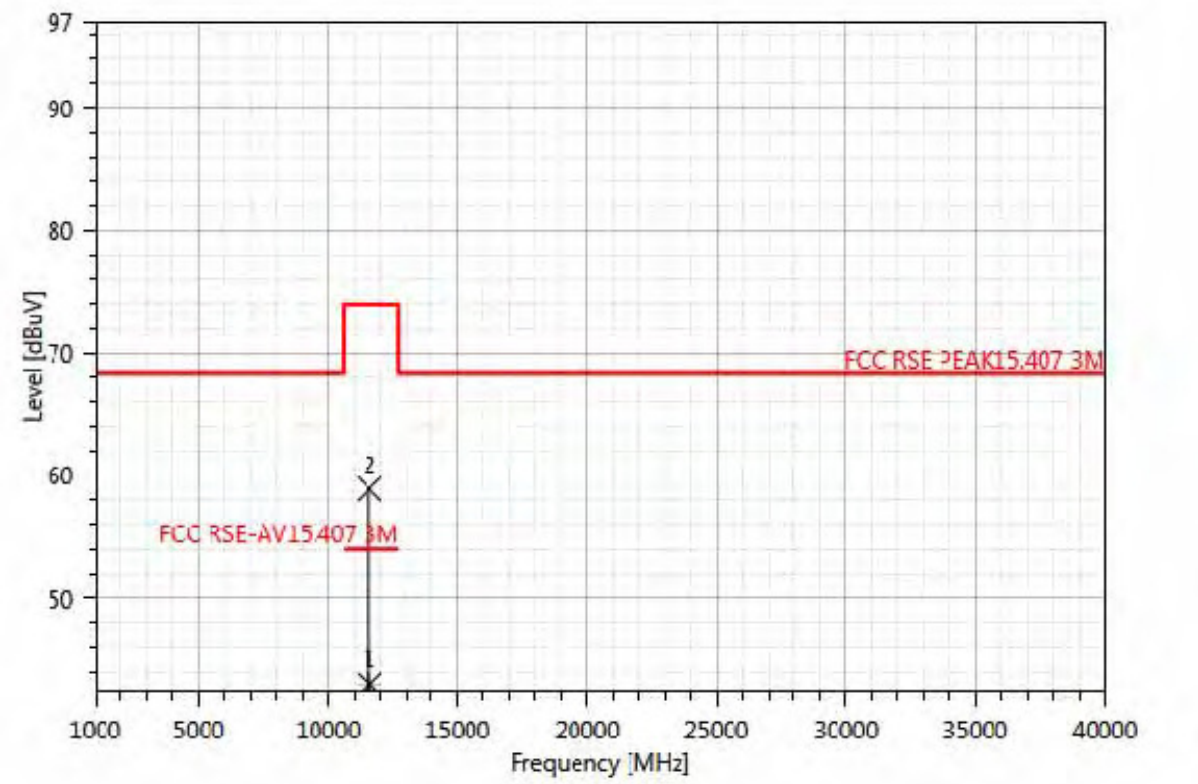
Operation Mode :	802.11n40B4	Test Date :	03/01/2016 21:08:24
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11510.00	H	41.48	21.09	20.39	54.00	-12.52
11510.00	H	53.50	33.12	20.39	74.00	-20.50

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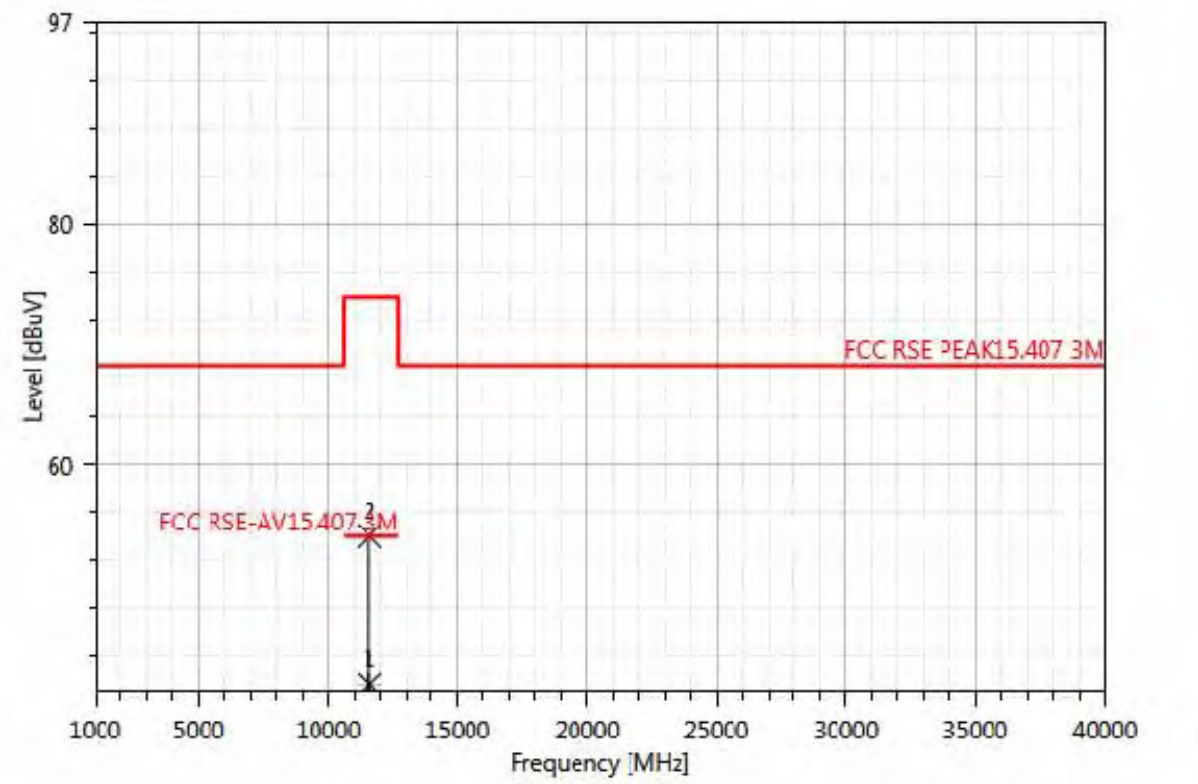
Operation Mode :	802.11n40B4	Test Date :	03/01/2016 21:09:59
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11590.00	H	42.98	22.55	20.43	54.00	-11.02
11590.00	H	58.90	38.47	20.43	74.00	-15.10

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Operation Mode :	802.11n40B4	Test Date :	03/01/2016 21:10:12
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

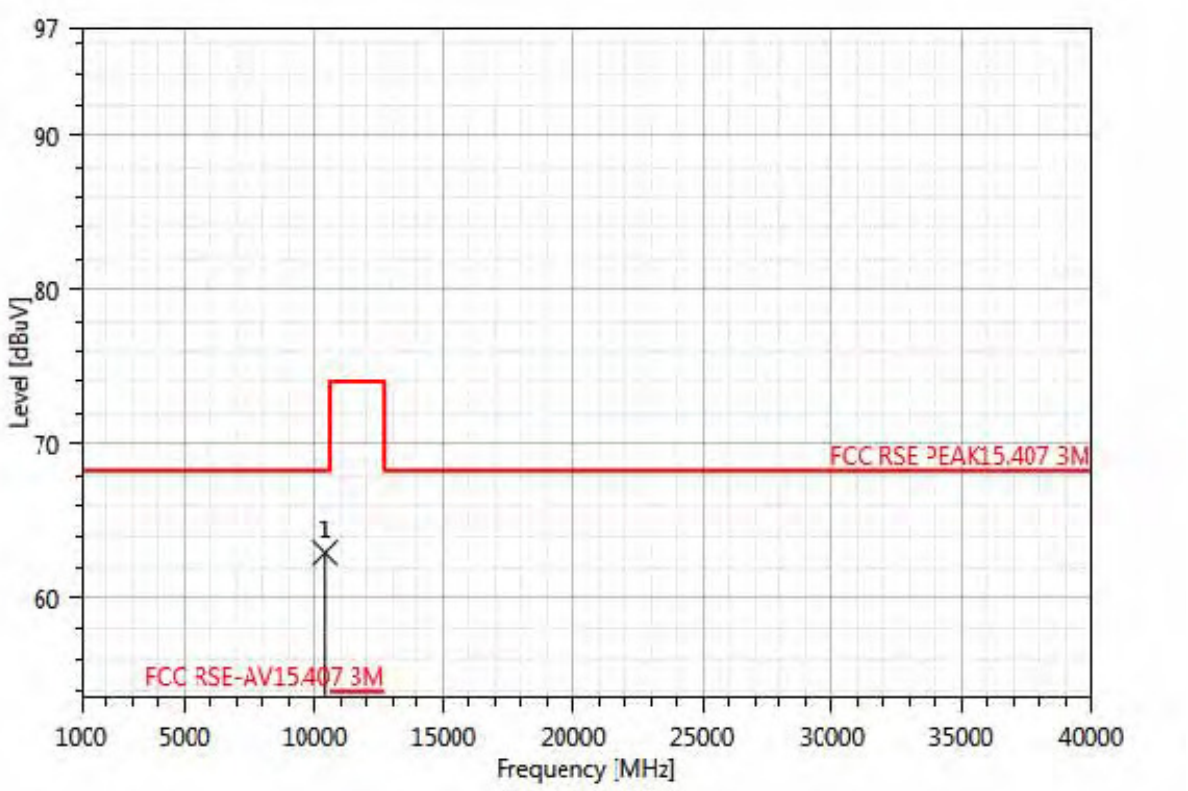


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11590.00	H	41.60	21.17	20.43	54.00	-12.40
11590.00	H	54.02	33.58	20.43	74.00	-19.98

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

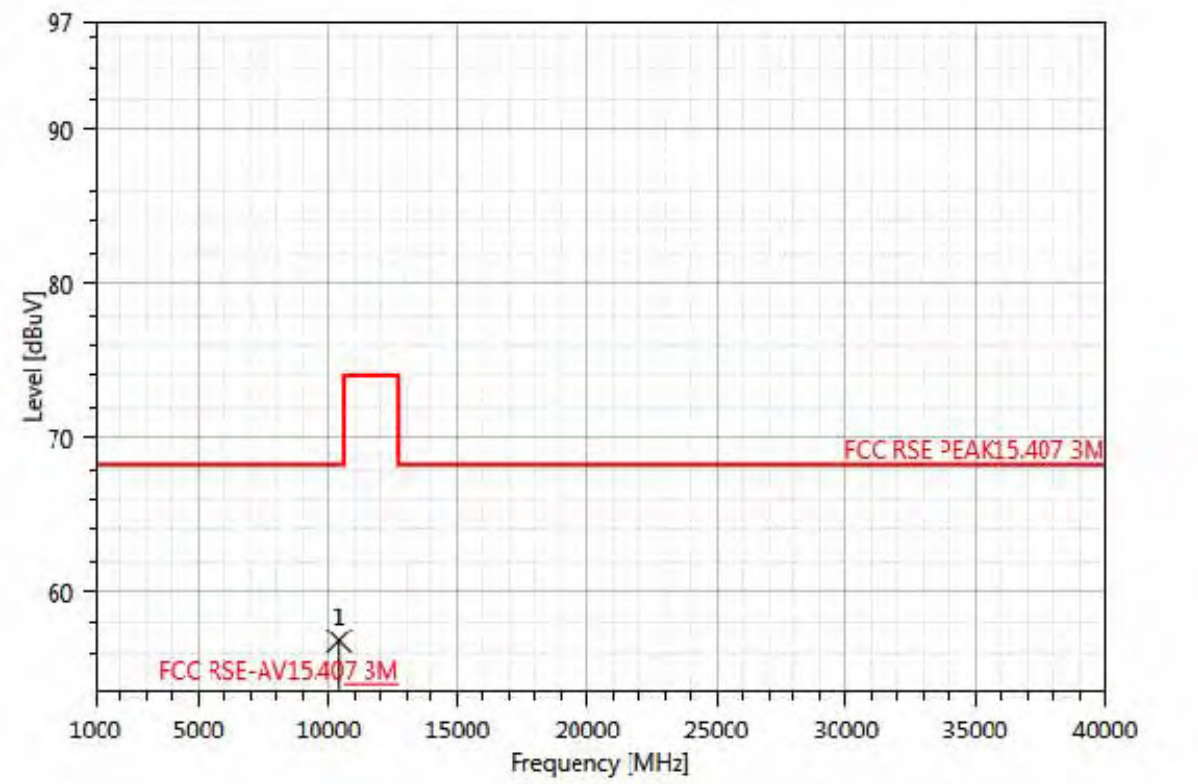
Operation Mode :	802.11ac80B1	Test Date :	03/01/2016 20:23:02
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10420.00	H	62.91	44.20	18.71	68.30	-5.39

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Operation Mode :	802.11ac80B1	Test Date :	03/01/2016 20:23:16
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

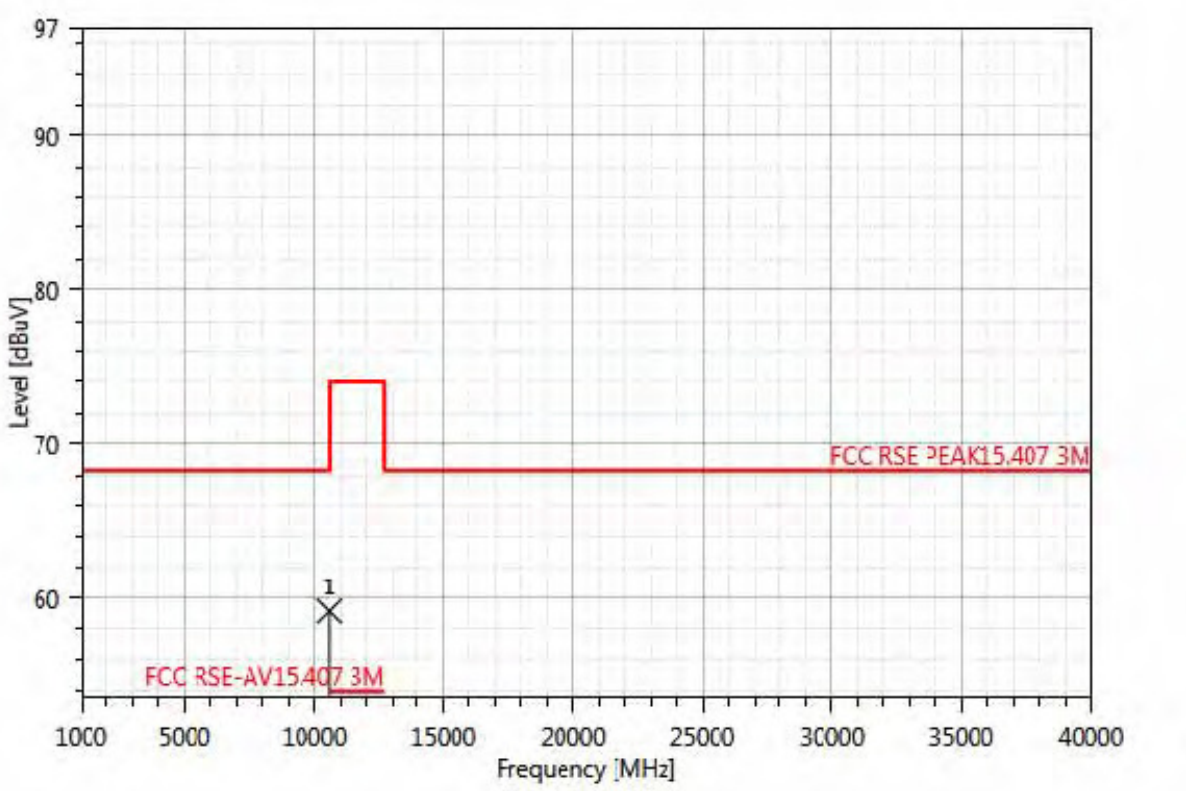


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10420.00	H	56.82	38.10	18.71	68.30	-11.48

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

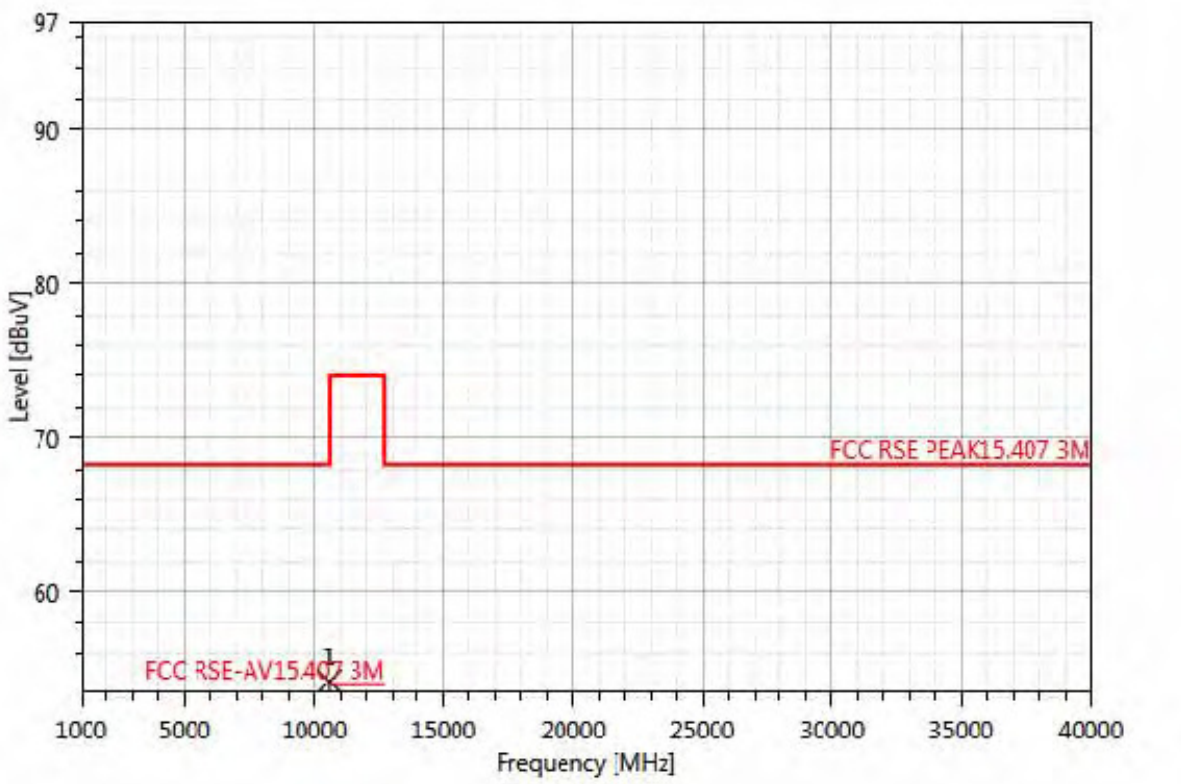
Operation Mode :	802.11ac80B2	Test Date :	03/01/2016 20:24:55
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10580.00	H	59.15	40.27	18.88	68.30	-9.15

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Operation Mode :	802.11ac80B2	Test Date :	03/01/2016 20:25:09
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

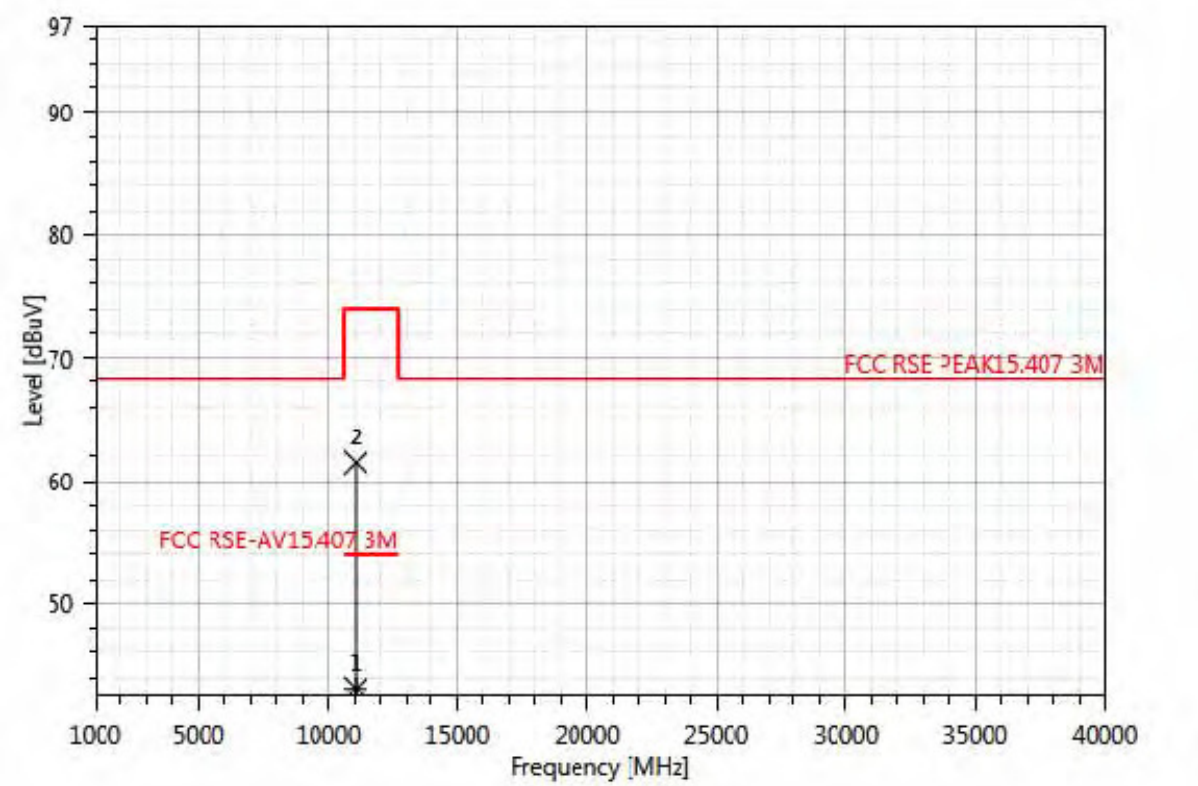


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
10580.00	H	54.20	35.32	18.88	68.30	-14.10

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

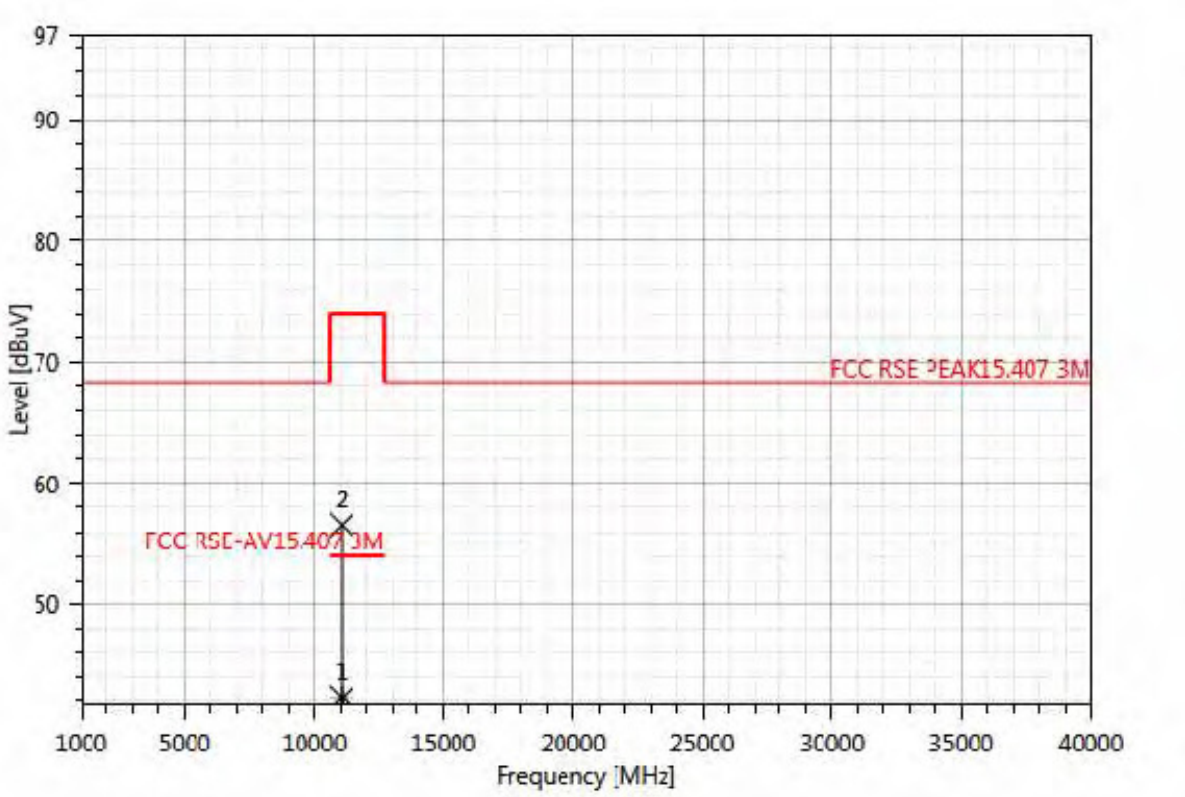
Operation Mode :	802.11ac80B3	Test Date :	03/01/2016 21:27:40
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11060.00	H	43.10	22.84	20.26	54.00	-10.90
11060.00	H	61.50	41.24	20.26	74.00	-12.50

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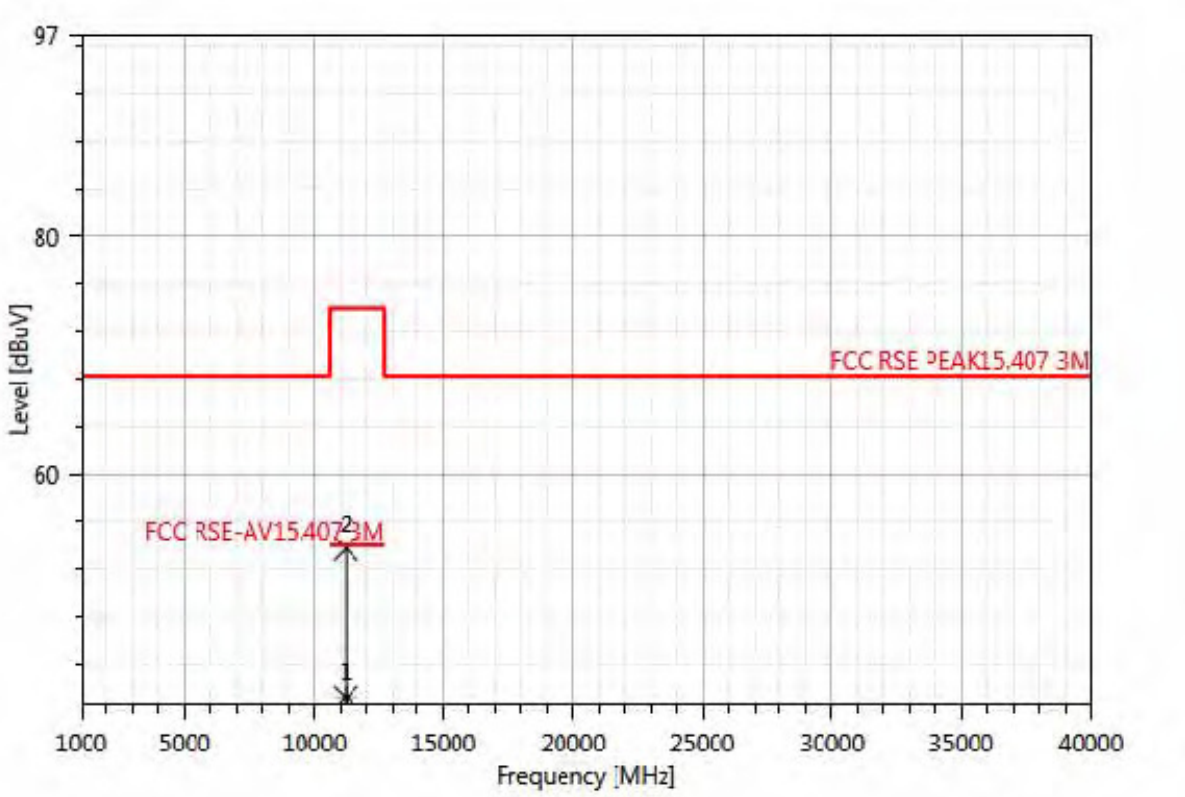
Operation Mode :	802.11ac80B3	Test Date :	03/01/2016 21:27:53
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11060.00	H	42.33	22.07	20.26	54.00	-11.67
11060.00	H	56.57	36.30	20.26	74.00	-17.43

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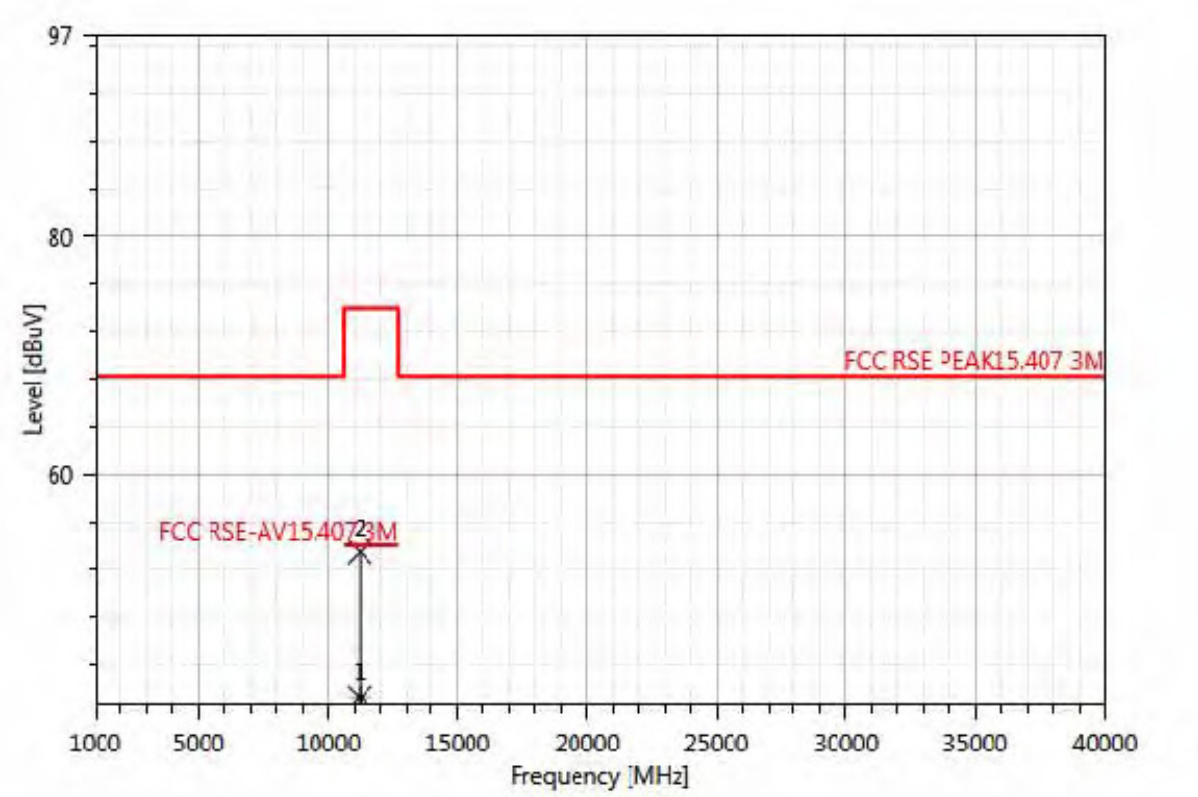
Operation Mode :	802.11ac80B3	Test Date :	03/22/2016 16:14:30
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11220.00	H	41.20	20.72	20.48	54.00	-12.80
11220.00	H	53.71	33.23	20.48	74.00	-20.29

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Operation Mode :	802.11ac80B3	Test Date :	03/22/2016 16:14:43
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

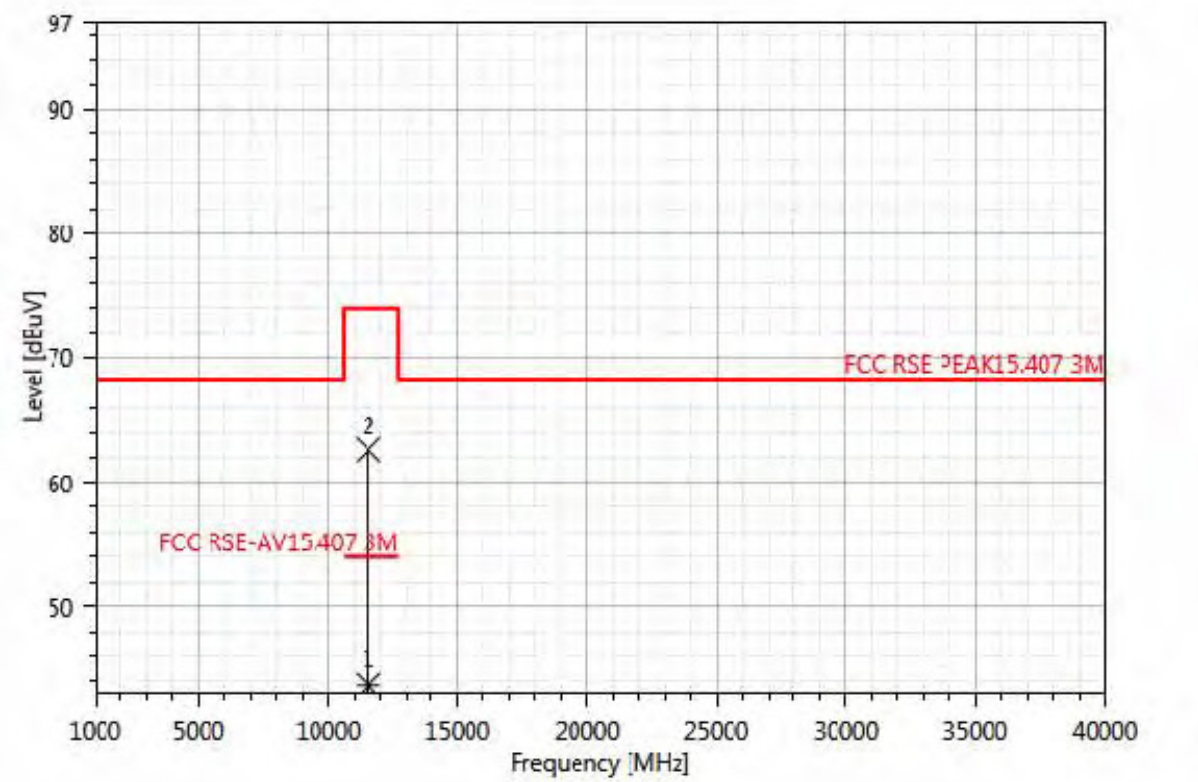


Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11220.00	H	41.23	20.75	20.48	54.00	-12.77
11220.00	H	53.43	32.95	20.48	74.00	-20.57

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

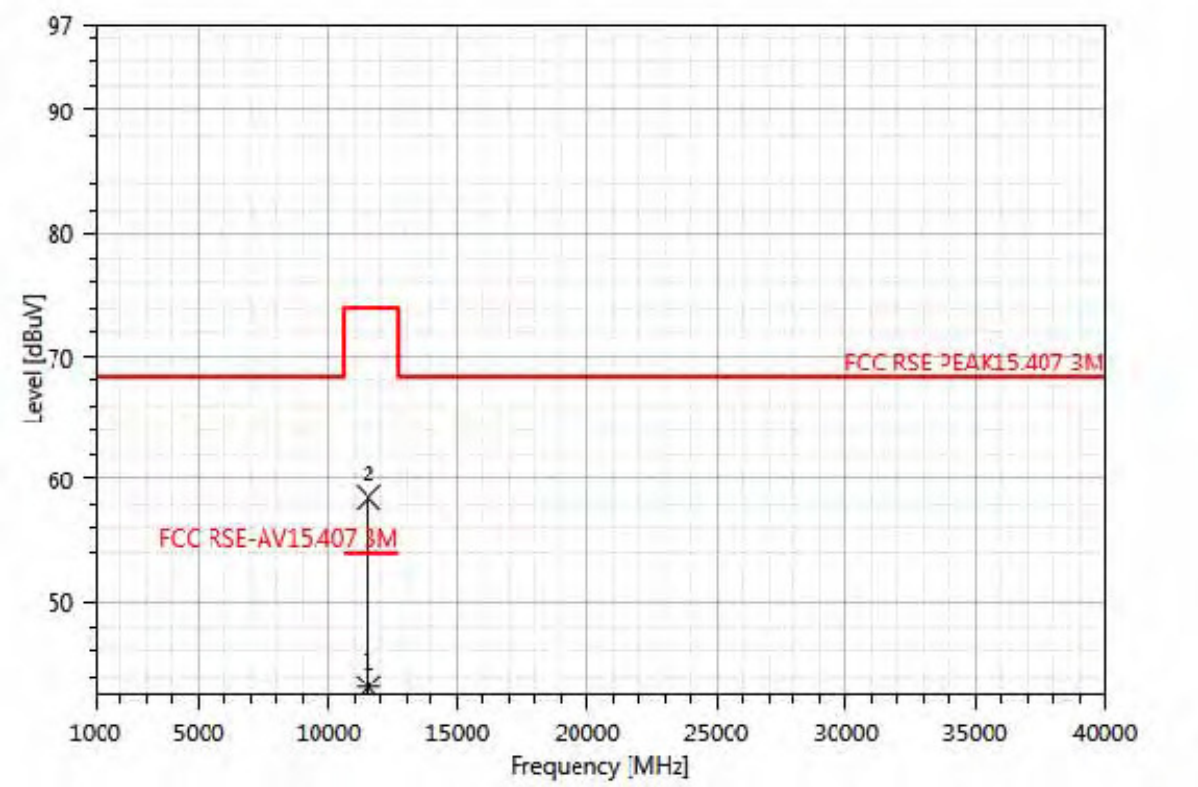
Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 21:05:10
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11550.00	H	43.70	23.18	20.52	54.00	-10.30
11550.00	H	62.58	42.07	20.52	74.00	-11.42

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Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 21:05:24
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
11550.00	H	43.09	22.57	20.52	54.00	-10.91
11550.00	H	58.52	38.00	20.52	74.00	-15.48

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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11aB1	Test Date :	03/01/2016 09:08:48
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	47.85	41.96	5.88	54.00	-6.15
5150.00	E	61.39	55.51	5.88	74.00	-12.61

Operation Mode :	802.11aB1	Test Date :	03/01/2016 09:14:17
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	42.66	36.78	5.88	54.00	-11.34
5150.00	E	55.28	49.40	5.88	74.00	-18.72

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Operation Mode :	802.11aB2	Test Date :	03/01/2016 09:20:52
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	46.27	40.12	6.15	54.00	-7.73
5350.00	E	58.70	52.55	6.15	74.00	-15.30

Operation Mode :	802.11aB2	Test Date :	03/01/2016 09:31:41
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	42.93	36.78	6.15	54.00	-11.07
5350.00	E	55.83	49.68	6.15	74.00	-18.17

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Operation Mode :	802.11aB3	Test Date :	03/01/2016 11:26:47
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5460.00	E	42.93	36.70	6.23	54.00	-11.07
5460.00	E	55.78	49.55	6.23	74.00	-18.22

Operation Mode :	802.11aB3	Test Date :	03/01/2016 11:33:37
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5460.00	E	47.04	40.80	6.23	54.00	-6.96
5460.00	E	60.19	53.96	6.23	74.00	-13.81

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Operation Mode :	802.11aB3	Test Date :	03/01/2016 11:38:55
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	56.12	49.86	6.26	68.30	-12.18

Operation Mode :	802.11aB3	Test Date :	03/01/2016 11:36:50
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	63.11	56.84	6.26	68.30	-5.19

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Operation Mode :	802.11aB3	Test Date :	03/01/2016 11:42:26
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	57.65	51.06	6.59	68.30	-10.65

Operation Mode :	802.11aB3	Test Date :	03/01/2016 11:44:04
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	60.81	54.22	6.59	68.30	-7.49

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Operation Mode :	802.11aB4	Test Date :	03/01/2016 17:42:09
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	65.45	58.85	6.59	78.20	-12.75

Operation Mode :	802.11aB4	Test Date :	03/01/2016 17:39:49
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	72.36	65.77	6.59	78.20	-5.84

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Operation Mode :	802.11aB4	Test Date :	03/01/2016 14:34:23
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	62.58	55.30	7.28	78.20	-15.62

Operation Mode :	802.11aB4	Test Date :	03/01/2016 14:36:24
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	63.02	55.73	7.28	78.20	-15.18

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802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	03/01/2016 14:40:07
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	42.29	36.41	5.88	54.00	-11.71
5150.00	E	55.12	49.23	5.88	74.00	-18.88

Operation Mode :	802.11n20B1	Test Date :	03/01/2016 14:43:10
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	43.55	37.67	5.88	54.00	-10.45
5150.00	E	56.73	50.85	5.88	74.00	-17.27

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Operation Mode :	802.11n20B2	Test Date :	03/01/2016 14:46:19
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	42.34	36.19	6.15	54.00	-11.66
5350.00	E	55.80	49.64	6.15	74.00	-18.20

Operation Mode :	802.11n20B2	Test Date :	03/01/2016 14:48:21
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	42.66	36.51	6.15	54.00	-11.34
5350.00	E	55.79	49.64	6.15	74.00	-18.21

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Operation Mode :	802.11n20B3	Test Date :	03/01/2016 14:54:35
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5460.00	E	42.72	36.49	6.23	54.00	-11.28
5460.00	E	55.48	49.25	6.23	74.00	-18.52

Operation Mode :	802.11n20B3	Test Date :	03/01/2016 14:59:30
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5460.00	E	44.45	38.22	6.23	54.00	-9.55
5460.00	E	56.33	50.09	6.23	74.00	-17.67

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Operation Mode :	802.11n20B3	Test Date :	03/01/2016 15:01:32
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	55.02	48.75	6.26	68.30	-13.28

Operation Mode :	802.11n20B3	Test Date :	03/01/2016 15:02:22
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	59.74	53.47	6.26	68.30	-8.56

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Operation Mode :	802.11n20B3	Test Date :	03/01/2016 17:18:50
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	56.00	49.41	6.59	68.30	-12.30

Operation Mode :	802.11n20B3	Test Date :	03/01/2016 17:20:25
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	58.01	51.42	6.59	68.30	-10.29

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Operation Mode :	802.11n20B4	Test Date :	03/01/2016 17:55:43
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	68.12	61.53	6.59	78.20	-10.08

Operation Mode :	802.11n20B4	Test Date :	03/01/2016 17:53:20
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	72.90	66.31	6.59	78.20	-5.30

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Operation Mode :	802.11n20B4	Test Date :	03/01/2016 15:12:06
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	63.44	56.16	7.28	78.20	-14.76

Operation Mode :	802.11n20B4	Test Date :	03/01/2016 15:13:34
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	69.50	62.22	7.28	78.20	-8.70

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802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	03/01/2016 15:17:36
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	42.82	36.94	5.88	54.00	-11.18
5150.00	E	55.78	49.90	5.88	74.00	-18.22

Operation Mode :	802.11n40B1	Test Date :	03/01/2016 15:20:43
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	45.04	39.16	5.88	54.00	-8.96
5150.00	E	58.90	53.01	5.88	74.00	-15.10

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Operation Mode :	802.11n40B2	Test Date :	03/01/2016 15:26:50
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	42.61	36.46	6.15	54.00	-11.39
5350.00	E	55.53	49.38	6.15	74.00	-18.47

Operation Mode :	802.11n40B2	Test Date :	03/01/2016 15:29:28
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	44.62	38.47	6.15	54.00	-9.38
5350.00	E	58.06	51.91	6.15	74.00	-15.94

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Operation Mode :	802.11n40B3	Test Date :	03/01/2016 15:33:53
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5460.00	E	43.23	37.00	6.23	54.00	-10.77
5460.00	E	55.70	49.47	6.23	74.00	-18.30

Operation Mode :	802.11n40B3	Test Date :	03/01/2016 15:37:23
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5460.00	E	45.97	39.74	6.23	54.00	-8.03
5460.00	E	59.25	53.01	6.23	74.00	-14.75

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Operation Mode :	802.11n40B3	Test Date :	03/01/2016 15:38:23
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	59.42	53.15	6.26	68.30	-8.88

Operation Mode :	802.11n40B3	Test Date :	03/01/2016 15:38:55
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	67.12	60.86	6.26	68.30	-1.18

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Operation Mode :	802.11n40B3	Test Date :	03/01/2016 15:58:53
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	56.63	50.04	6.59	68.30	-11.67

Operation Mode :	802.11n40B3	Test Date :	03/01/2016 16:01:31
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	57.50	50.91	6.59	68.30	-10.80

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Operation Mode :	802.11n40B4	Test Date :	03/01/2016 18:06:56
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	66.02	59.43	6.59	78.20	-12.18

Operation Mode :	802.11n40B4	Test Date :	03/01/2016 18:04:53
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	70.88	64.29	6.59	78.20	-7.32

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Operation Mode :	802.11n40B4	Test Date :	03/01/2016 16:15:13
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	57.57	50.29	7.28	78.20	-20.63

Operation Mode :	802.11n40B4	Test Date :	03/01/2016 16:17:33
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	60.10	52.82	7.28	78.20	-18.10

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802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	03/01/2016 16:31:27
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	44.77	38.89	5.88	54.00	-9.23
5150.00	E	59.93	54.05	5.88	74.00	-14.07

Operation Mode :	802.11ac80B1	Test Date :	03/01/2016 16:35:48
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5150.00	E	48.92	43.04	5.88	54.00	-5.08
5150.00	E	65.81	59.93	5.88	74.00	-8.19

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Operation Mode :	802.11ac80B2	Test Date :	03/01/2016 16:40:09
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	44.41	38.26	6.15	54.00	-9.59
5350.00	E	57.87	51.72	6.15	74.00	-16.13

Operation Mode :	802.11ac80B2	Test Date :	03/01/2016 16:44:12
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5350.00	E	47.46	41.31	6.15	54.00	-6.54
5350.00	E	63.57	57.42	6.15	74.00	-10.43

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Operation Mode :	802.11ac80B3	Test Date :	03/01/2016 18:30:14
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5460.00	E	43.88	37.65	6.23	54.00	-10.12
5460.00	E	56.71	50.47	6.23	74.00	-17.29

Operation Mode :	802.11ac80B3	Test Date :	03/01/2016 18:31:09
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	47.70	41.44	6.26	54.00	-6.30
5470.00	E	65.07	58.81	6.26	74.00	-8.93

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Operation Mode :	802.11ac80B3	Test Date :	03/01/2016 18:28:44
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	59.31	53.04	6.26	68.30	-8.99

Operation Mode :	802.11ac80B3	Test Date :	03/01/2016 18:26:19
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5470.00	E	65.07	58.81	6.26	68.30	-3.23

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Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 09:25:19
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	64.42	57.83	6.59	78.20	-13.78

Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 09:19:32
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5725.00	E	71.39	64.80	6.59	78.20	-6.81

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Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 09:21:40
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	57.45	50.17	7.28	78.20	-20.75

Operation Mode :	802.11ac80B4	Test Date :	03/01/2016 09:23:36
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Emission Level	Spectrum Reading Level	Factor	Limit @3m	Margin
MHz	F/H/E/S	dBuV/m	dBuV	dB	dBuV/m	dB
5850.00	E	58.96	51.68	7.28	78.20	-19.24

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

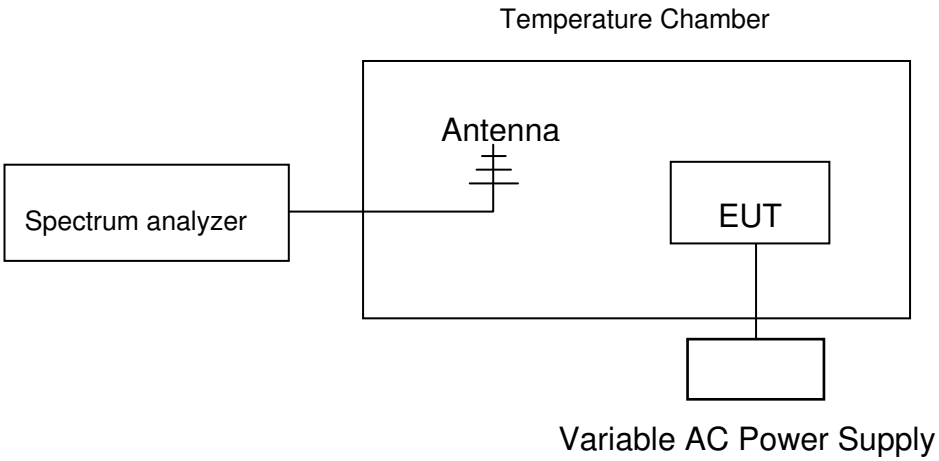
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2016.03.15
Temperature	:21	Test By	Cooper

			ΔFrequency (MHz)
36	5180	5,180.00000	0.00000000
44	5220	5,220.06006	-0.00001151
48	5240	5,240.04492	-0.00000857
52	5260	5,260.00000	0.00000000
60	5300	5,300.01489	-0.00000281
64	5320	5,320.00000	0.00000000
100	5500	5,499.95508	0.00000817
116	5580	5,579.95508	0.00000805
140	5700	5,699.95508	0.00000788
149	5745	5,744.96997	0.00000523
157	5785	5,784.98511	0.00000257
165	5825	5,824.98511	0.00000256
36	5180	5,180.01489	-0.00000288
44	5220	5,220.01489	-0.00000285
48	5240	5,240.04492	-0.00000857
52	5260	5,259.98511	0.00000283
60	5300	5,300.01489	-0.00000281
64	5320	5,320.00000	0.00000000
100	5500	5,499.95508	0.00000817
116	5580	5,579.94019	0.00001072
140	5700	5,699.94019	0.00001049
149	5745	5,744.95508	0.00000782
157	5785	5,784.97022	0.00000515
165	5825	5,824.98511	0.00000256

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	36	5180	5,180.00000	0.00000000
	44	5220	5,220.04492	-0.00000861
	48	5240	5,240.01489	-0.00000284
	52	5260	5,260.00000	0.00000000
	60	5300	5,299.98511	0.00000281
	64	5320	5,319.96997	0.00000564
25	100	5500	5,499.95508	0.00000817
	116	5580	5,579.95508	0.00000805
	140	5700	5,699.94019	0.00001049
	149	5745	5,744.94019	0.00001041
	157	5785	5,784.95508	0.00000777
	165	5825	5,824.98511	0.00000256

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Operation Mode	802.11 n_HT40	Test Date	2016.03.15
Temperature	:21	Test By	Cooper

38	5190	5,189.97510	0.00000480
46	5230	5,230.00000	0.00000000
54	5270	5,269.95020	0.00000945
62	5310	5,309.95020	0.00000938
102	5510	5,509.95020	0.00000904
110	5550	5,549.95020	0.00000897
134	5670	5,669.95020	0.00000878
151	5755	5,754.92505	0.00001302
159	5795	5,794.95020	0.00000859
38	5190	5,190.00000	0.00000000
46	5230	5,229.97510	0.00000476
54	5270	5,269.95020	0.00000945
62	5310	5,309.92505	0.00001412
102	5510	5,509.92505	0.00001360
110	5550	5,549.95020	0.00000897
134	5670	5,669.95020	0.00000878
151	5755	5,754.95020	0.00000865
159	5795	5,794.95020	0.00000859

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	38	5190	5,190.00000	0.00000000
	46	5230	5,229.95020	0.00000952
	54	5270	5,269.97510	0.00000473
	62	5310	5,309.97510	0.00000469
25	102	5510	5,509.92505	0.00001360
	110	5550	5,549.95020	0.00000897
	134	5670	5,669.97510	0.00000439
	151	5755	5,754.95020	0.00000865
	159	5795	5,794.95020	0.00000859
	38	5190	5,189.97510	0.00000480
	46	5230	5,230.00000	0.00000000
	54	5270	5,269.95020	0.00000945
	62	5310	5,309.95020	0.00000938
	102	5510	5,509.95020	0.00000904
	110	5550	5,549.95020	0.00000897
	134	5670	5,669.95020	0.00000878
	151	5755	5,754.95020	0.00000865
	159	5795	5,794.97510	0.00000430
	38	5190	5,189.97510	0.00000480
	46	5230	5,229.95020	0.00000952
	54	5270	5,269.97510	0.00000473
	62	5310	5,309.92505	0.00001412
	102	5510	5,509.92505	0.00001360
	110	5550	5,549.95020	0.00000897
	134	5670	5,669.95020	0.00000878
	151	5755	5,754.95020	0.00000865
	159	5795	5,794.95020	0.00000859

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Test Date 2016.03.15
Test By Cooper

	42	5210	5,210.10010	-0.00001921
	58	5290	5,290.04981	-0.00000941
	106	5530	5,529.95020	0.00000901
	122	5610	5,609.95020	0.00000888
	155	5775	5,775.00000	0.00000000
-10	42	5210	5,210.00000	0.00000000
	58	5290	5,290.10010	-0.00001892
	106	5530	5,529.95020	0.00000901
	122	5610	5,609.95020	0.00000888
	155	5775	5,774.90015	0.00001729
	42	5210	5,210.00000	0.00000000
	58	5290	5,290.00000	0.00000000
	106	5530	5,529.95020	0.00000901
	122	5610	5,609.95020	0.00000888
	155	5775	5,774.95020	0.00000862
	42	5210	5,210.15015	-0.00002882
	58	5290	5,290.05005	-0.00000946
	106	5530	5,529.95020	0.00000901
	122	5610	5,609.95020	0.00000888
	155	5775	5,774.95020	0.00000862
	42	5210	5,210.00000	0.00000000
	58	5290	5,290.00000	0.00000000
	106	5530	5,529.95020	0.00000901
	122	5610	5,609.95020	0.00000888
	155	5775	5,774.90015	0.00001729

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

PCB antenna designs are used.

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

~ End of Report ~

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