

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

Product Name:	Panasonic FA-170-BCAR-HS
Brand Name:	Panasonic
Model No.:	FA-170-BCAR-HS
Model Difference:	N/A
FCC ID:	ACJ-FA-170-BCARHS
IC:	216B-FA170BCARHS
Report No.:	E2/2016/30081
Issue Date:	Jul. 01, 2016
FCC Rule Part:	§15.407
IC Rule Part	RSS-247 issue 1 May 2015
Prepared for (FCC):	Panasonic Corporation of North America Two Riverfront Plaza, 9th Floor, Newark, New Jersey, 07102-5490, USA
Prepared for (IC):	Panasonic Automotive Systems Company of America 776 Highway 74 South Peachtree City GA 30269 USA
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant (FCC): Panasonic Corporation of North America
Two Riverfront Plaza, 9th Floor, Newark, New Jersey, 07102-5490, USA

Applicant (IC): Panasonic Automotive Systems Company of America
776 Highway 74 South Peachtree City GA 30269 USA

Product Name: Panasonic FA-170-BCAR-HS

Brand Name: Panasonic

Model No.: FA-170-BCAR-HS

Model Difference: N/A

FCC ID: ACJ-FA-170-BCARHS

IC: 216B-FA170BCARHS

File Number: E2/2016/30081

Date of Test: Mar. 24, 2016 ~ Jun. 29, 2016

Date of EUT Received: Mar. 24, 2016

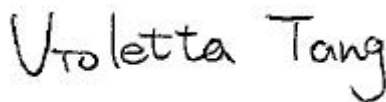
We hereby certify that:

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.

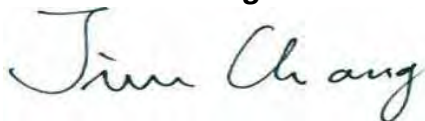
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Jul. 01, 2016

Aken Huang / Engineer**Prepared By:****Date:**

Jul. 01, 2016

Violetta Tang / Clerk**Approved By:****Date:**

Jul. 01, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/30081	Rev.00	Initial creation of document	Jul. 01, 2016

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Panasonic FA-170-BCAR-HS
Brand Name:	Panasonic
Model No.:	FA-170-BCAR-HS
Model Difference:	N/A
Product SW/HW version:	FA-170-BCAR-HS / FA-170-BCAR-HS
Radio SW/HW version:	FA-170-BCAR-HS / FA-170-BCAR-HS
Test SW Version:	NeoViEngine GUI 1.4.0.0
RF power setting in TEST SW:	default
Power Supply:	12V from DC Power Supply

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	10.07dBm (Avg.) / 12.07dBm (EIRP)	OFDM	16M4D1D
	5250~5350	4	10.06dBm (Avg.) / 12.06dBm (EIRP)		16M6D1D
	5470~5725	12	10.10dBm (Avg.) / 12.10dBm (EIRP)		16M8D1D
	5725-5850	5	10.06dBm		15M6D1D
11n 20M	HT 20 5150~5250	4	10.08dBm (Avg.) / 12.08dBm (EIRP)	OFDM	17M8D1D
	HT 20 5250~5350	4	10.09dBm (Avg.) / 12.09dBm (EIRP)		17M9D1D
	HT 20 5470~5725	11	10.07dBm (Avg.) / 12.07dBm (EIRP)		18M1D1D
	HT 20 5725-5850	5	10.09dBm		16M0D1D
Antenna Designation			PCB Antenna, 5GHz Gain: 2dBi (5150MHz-5250MHz) 5GHz Gain: 2dBi (5250MHz-5350MHz) 5GHz Gain: 2dBi (5470MHz-5725MHz) 5GHz Gain: 2dBi (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		

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Panasonic FA-170-BCAR-HS, supporting below features.

Product Feature	
Product Name:	Panasonic FA-170-BCAR-HS
Brand Name:	Panasonic
Model No.:	FA-170-BCAR-HS
Model Difference:	N/A
FCC ID:	ACJ-FA-170-BCARHS
IC :	216B-FA170BCARHS
Bluetooth Version:	BT V2.1 single mode + EDR
Wi-Fi- Specification:	802.11a/b/g/n
GPS:	GPS

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

KDB648474 D03 Wireless Chargers Battery Cover

RSS-247 issue 1 May 2015

RSS-Gen issue 4 Nov. 2014

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.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 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 placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation example with cable loss 1.6dB, and 10dB attenuator.

SISO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor (dB)} + 10 \log(N_{\text{ANT}}) \text{ dB} = 11.6(\text{dB})$$

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2.5 Configuration of Tested System

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

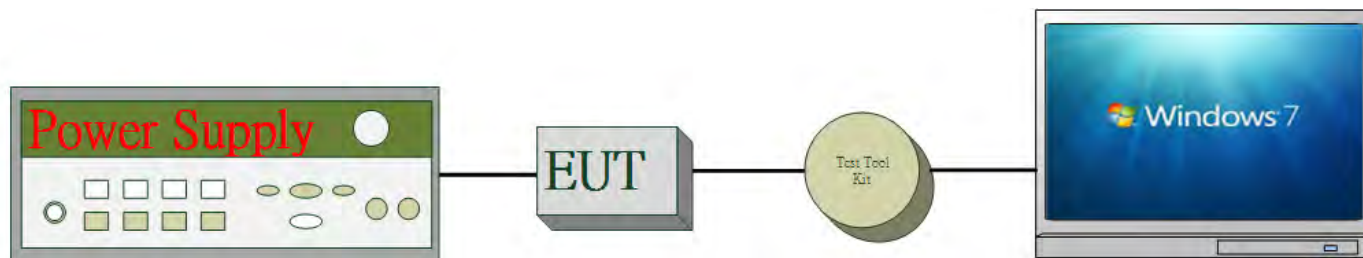


Table 2-1 Equipment Used in Tested System

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-6MEX0	Shielded	Unshielded
3.	DC Power Supply	Agilent	E3634A	MY40015159	N/A	N/A
4.	Test Tool Kit	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	N/A
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.7 RSS- Gen §8.3	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

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

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

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

Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n_HT20

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		

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

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

*Note: TDWR band (5600MHz-5650MHz) is for FCC use only.

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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	1	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11a	5500~5720	100 to 140	100,116,140	OFDM	1	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11a	5500~5720	100 to 144	100,116,140	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN

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 WLAN Transmitter for channel Low, Mid and High, the worst case H position was reported.

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

Frequency range MHz	Limits dB(μV)	
	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	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3. EUT Setup

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

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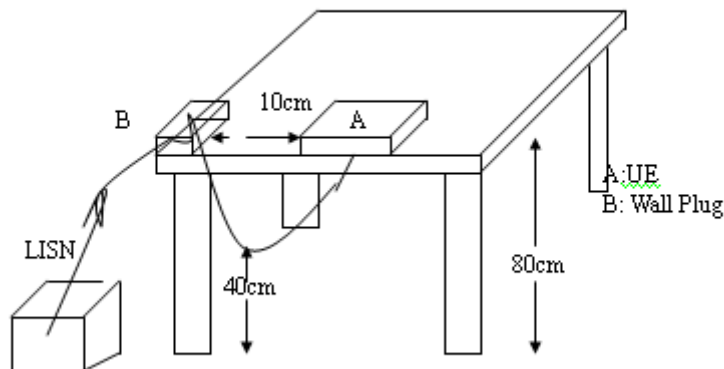
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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

N/A, the device is powered by DC 12V.

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7. DUTY CYCLE TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)
802.11a	86.97	0.61
802.11n_20	86.19	0.65

Duty Cycle Factor: $10 * \log(1/0.8697) = 0.61$

Duty Cycle Factor: $10 * \log(1/0.8619) = 0.65$

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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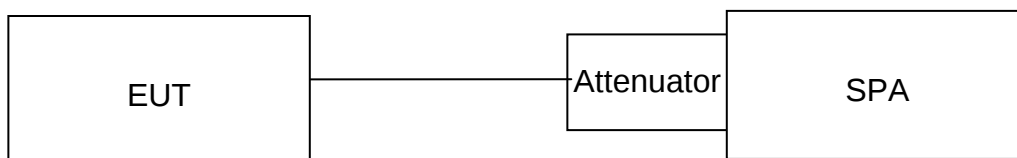
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

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	22.05	13.434
5220	23.46	13.702
5240	25.65	14.092
5260	24.91	13.964
5300	28.03	14.476
5320	25.75	14.108
5500	28.49	14.547
5580	27.77	14.436
5700	25.84	14.123

802.11n_HT20_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	23.49	13.710
5220	24.73	13.932
5240	25.61	14.084
5260	26.96	14.308
5300	27.00	14.314
5320	28.12	14.491
5500	28.97	14.620
5580	28.03	14.476
5700	27.11	14.331

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99% Bandwidth

802.11a_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	16.440	12.159
5220	16.426	12.155
5240	16.273	12.115
5260	16.363	12.139
5300	16.357	12.137
5320	16.563	12.191
5500	16.841	12.264
5580	16.313	12.125
5700	16.411	12.151

802.11n_HT20_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	17.510	12.433
5220	17.766	12.496
5240	17.730	12.487
5260	17.943	12.539
5300	17.499	12.430
5320	17.421	12.411
5500	18.134	12.585
5580	17.885	12.525
5700	17.446	12.417

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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	14.23	11.533
5785	15.06	11.778
5825	13.32	11.243

802.11n_HT20_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.08	11.785
5785	13.61	11.339
5825	15.09	11.787

6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Average detector for IC

802.11a_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.56	11.920
5785	13.36	11.258
5825	15.57	11.923

802.11n_HT20_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.61	11.934
5785	14.77	11.694
5825	16.00	12.041

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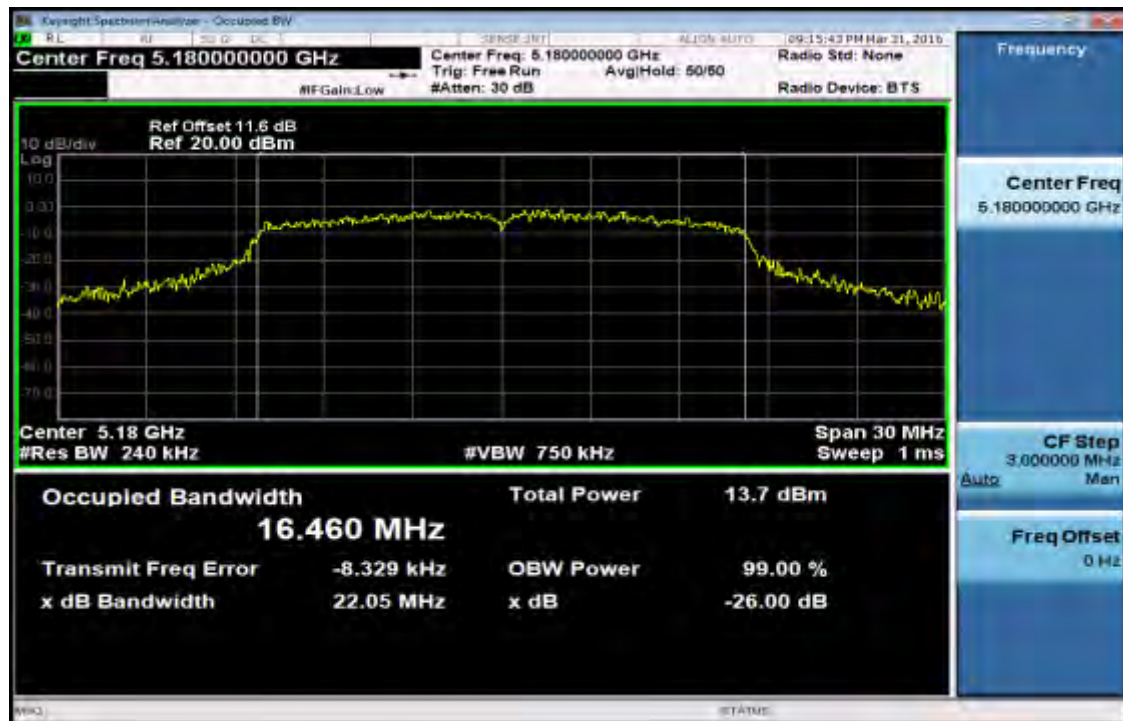
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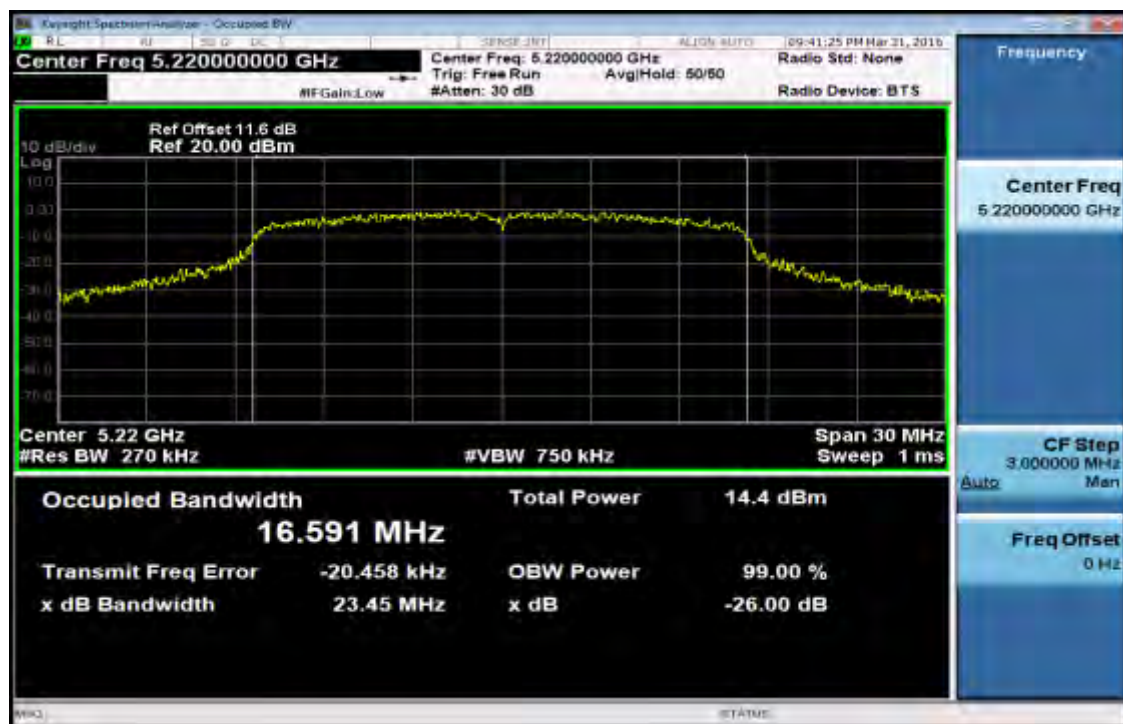
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



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



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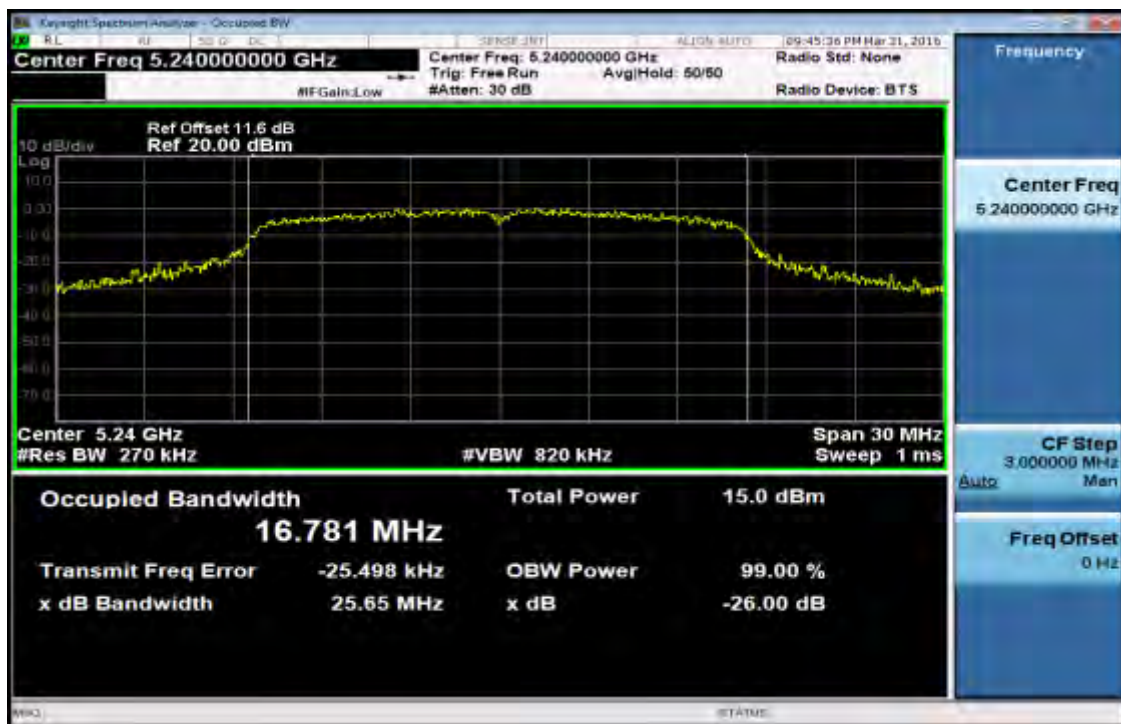
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26dB Band Width Test Data CH-High (5240MHz)



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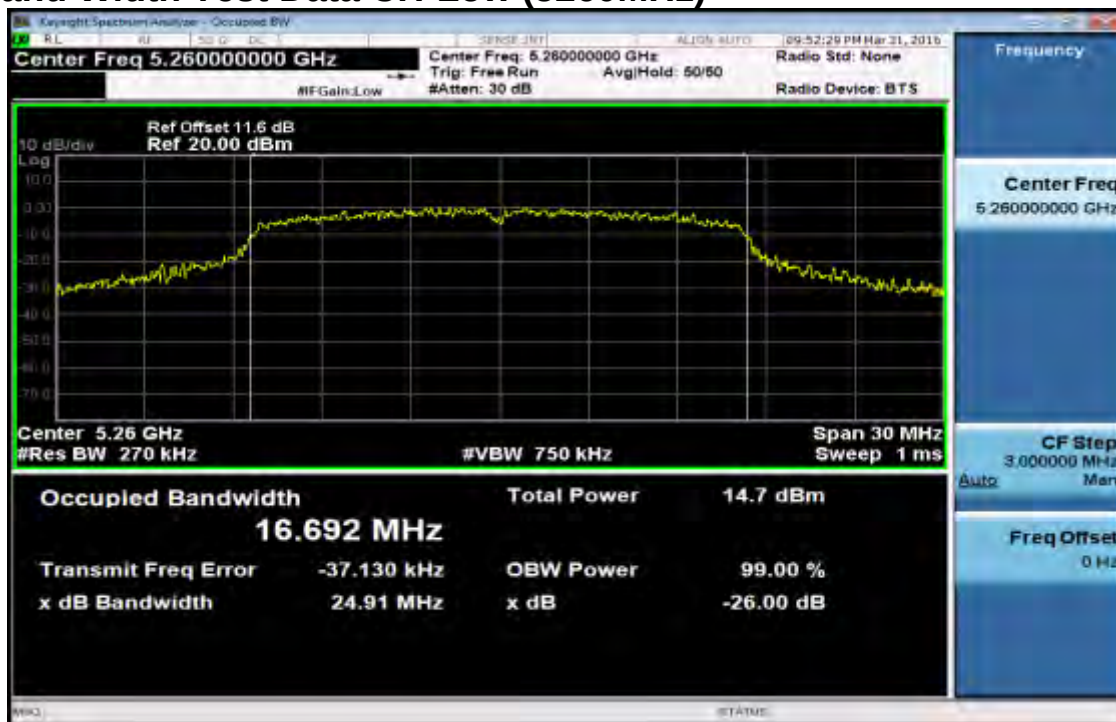
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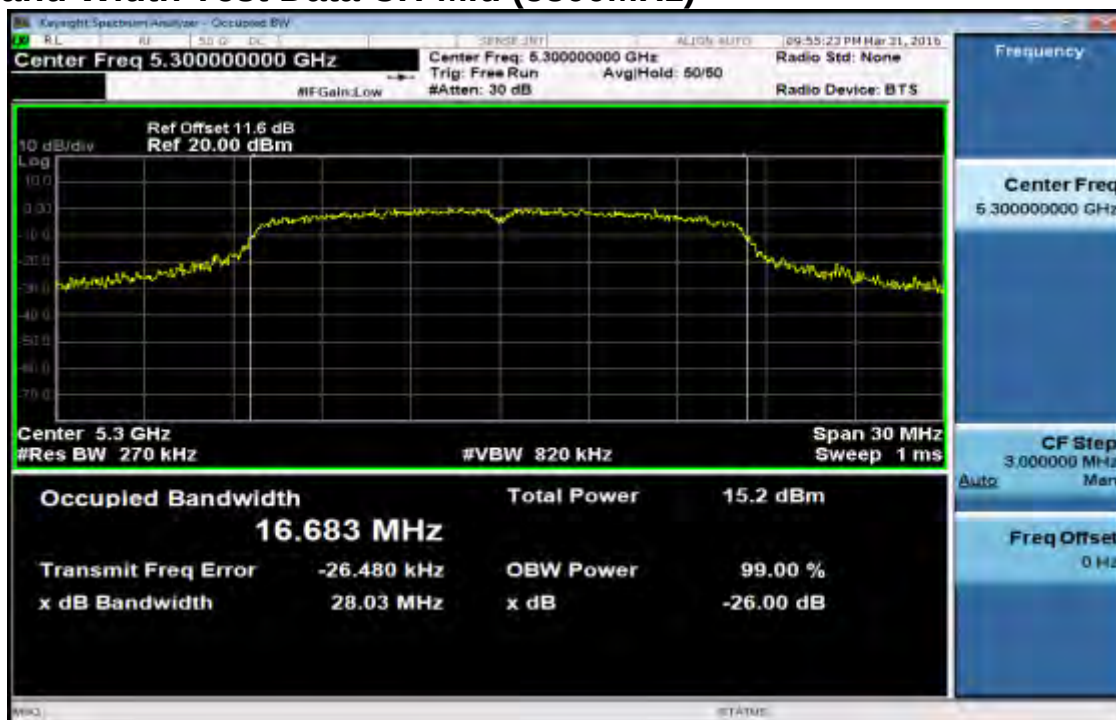
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802.11a, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260MHz)



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



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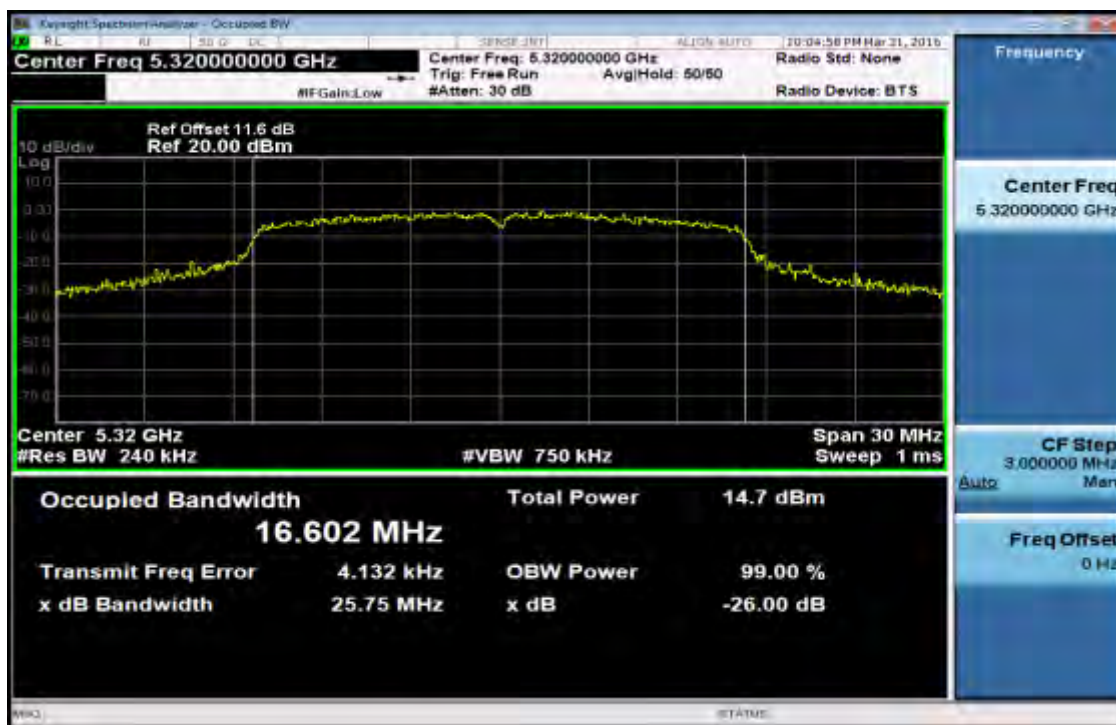
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26dB Band Width Test Data CH-High (5320MHz)



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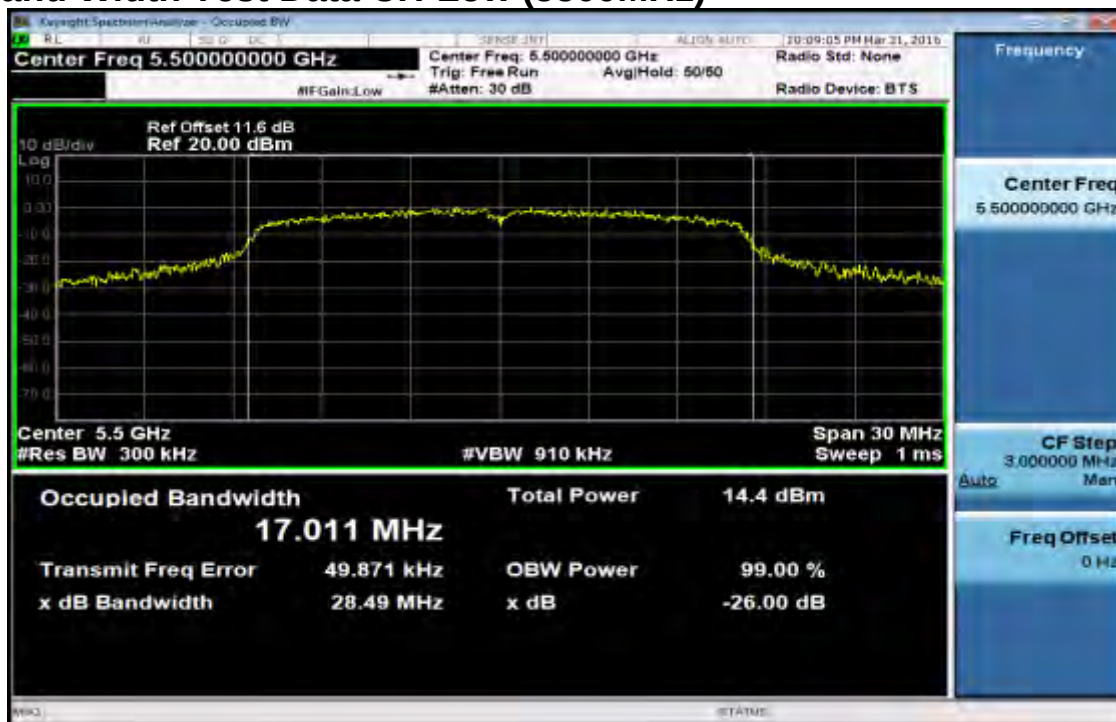
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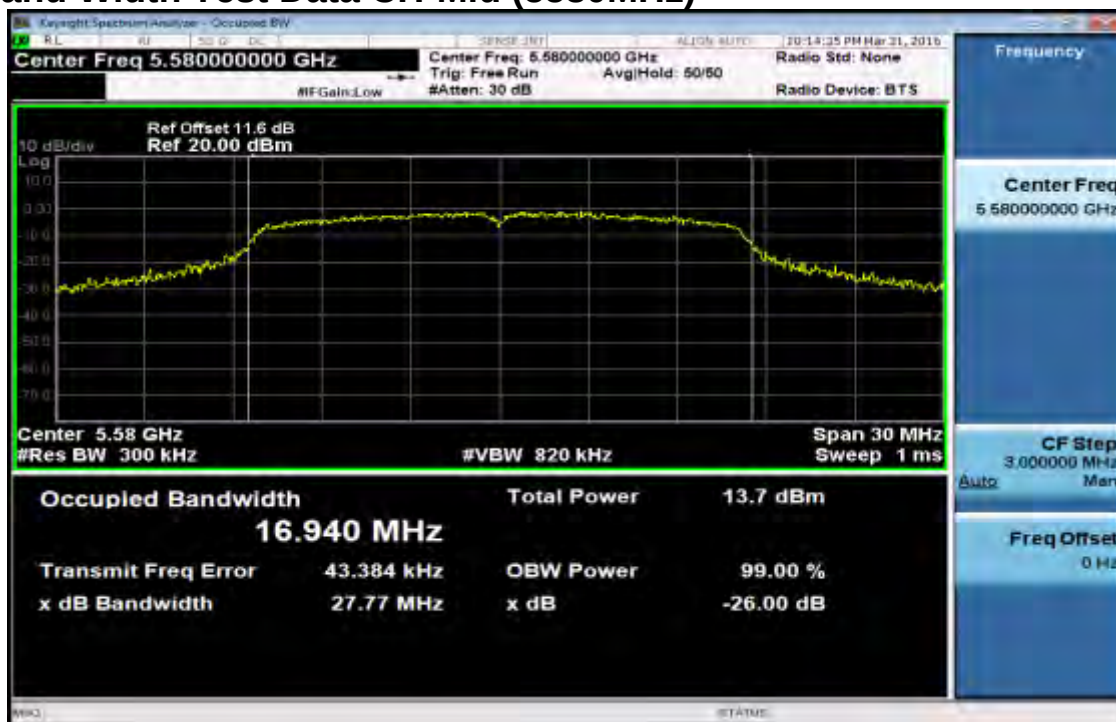
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802.11a, 5470~5725 MHz (Main)

26dB Band Width Test Data CH-Low (5500MHz)



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



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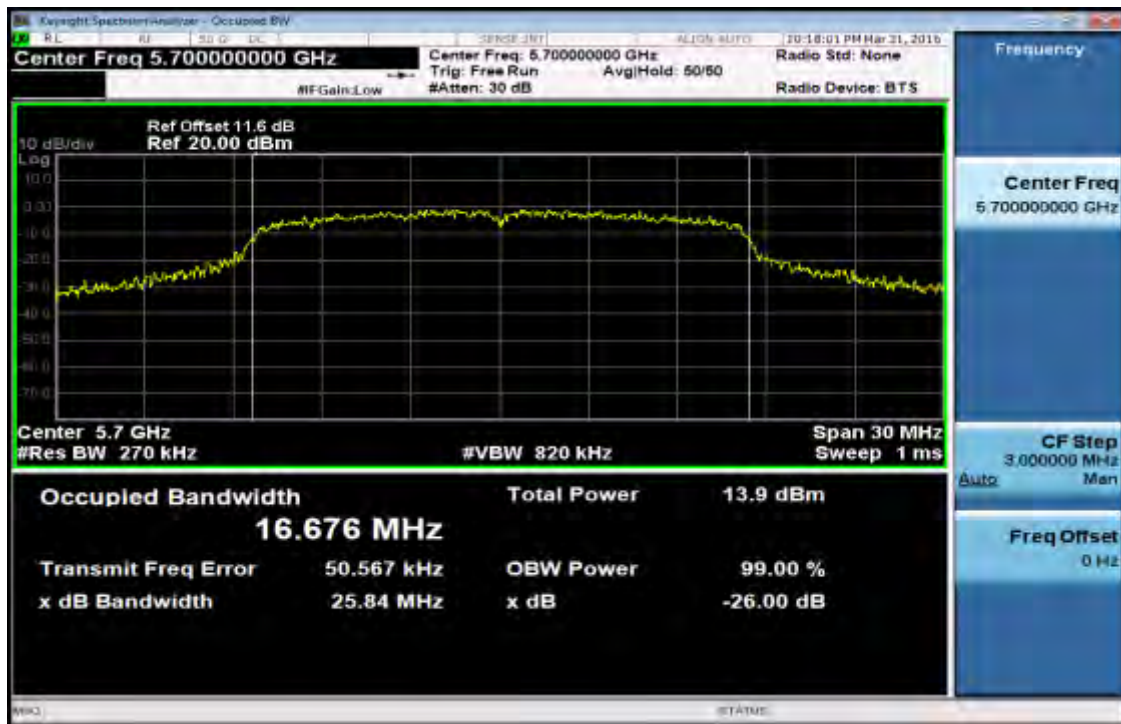
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26dB Band Width Test Data CH-High (5700MHz)



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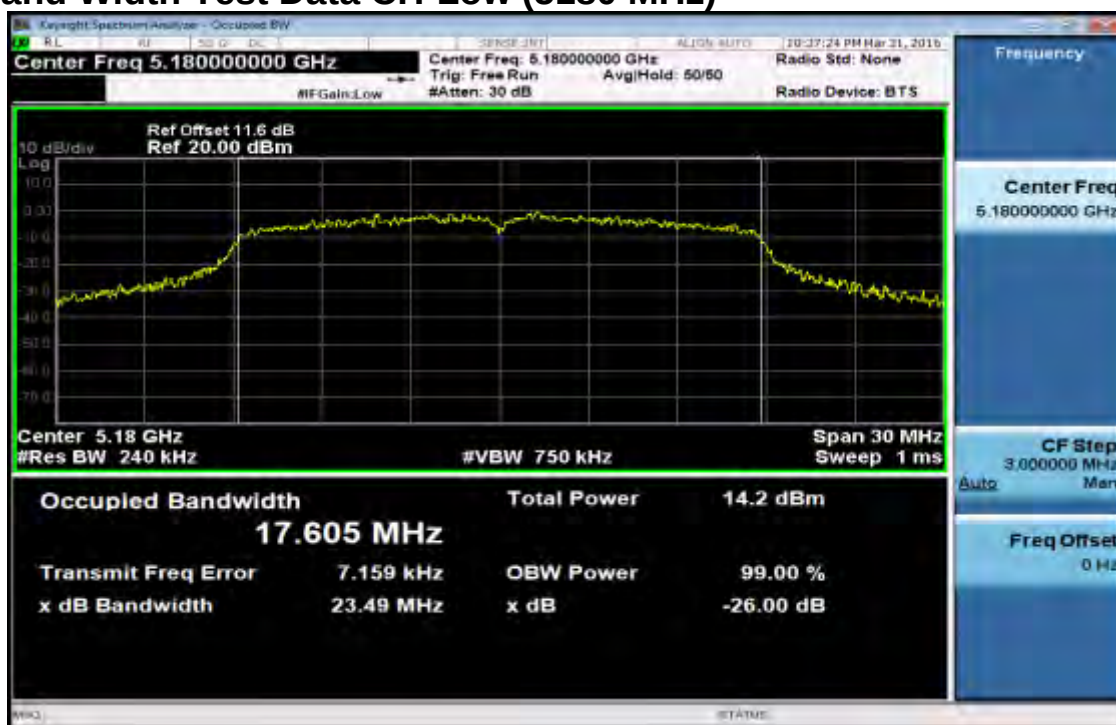
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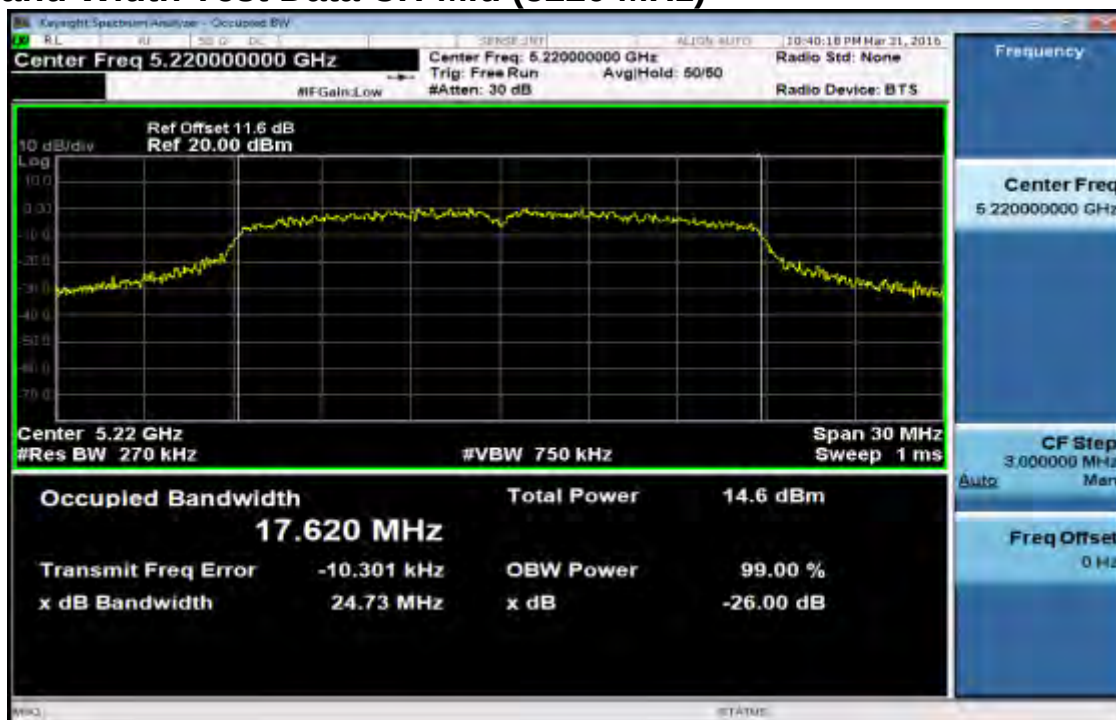
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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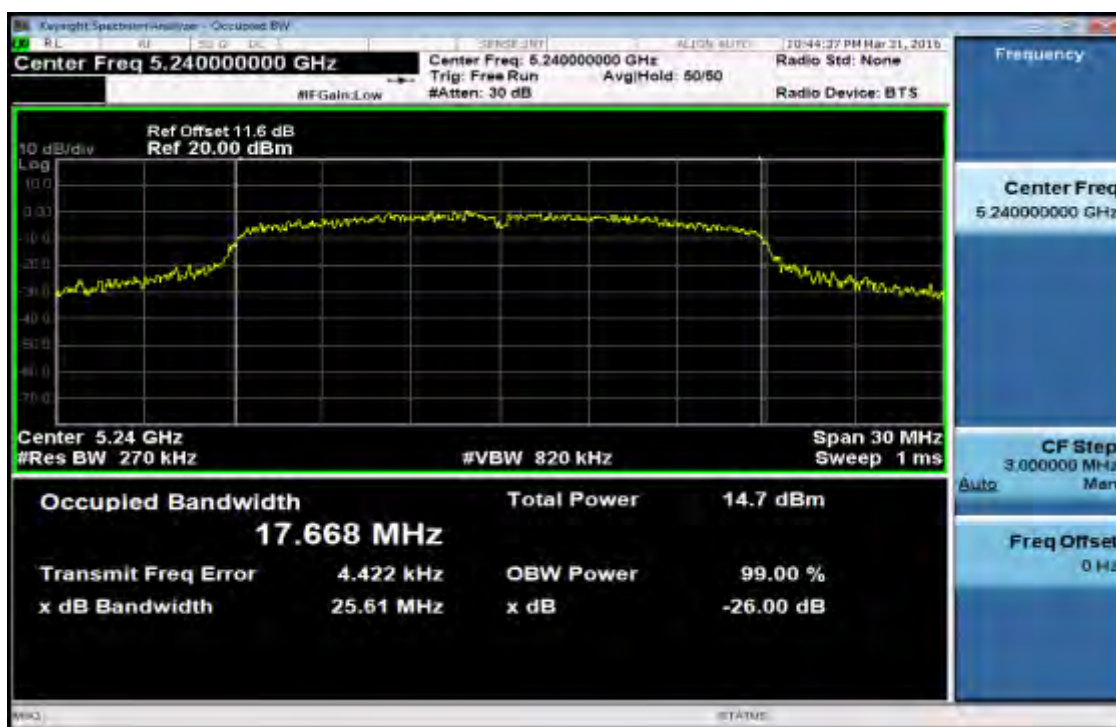
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26dB Band Width Test Data CH-High (5240 MHz)



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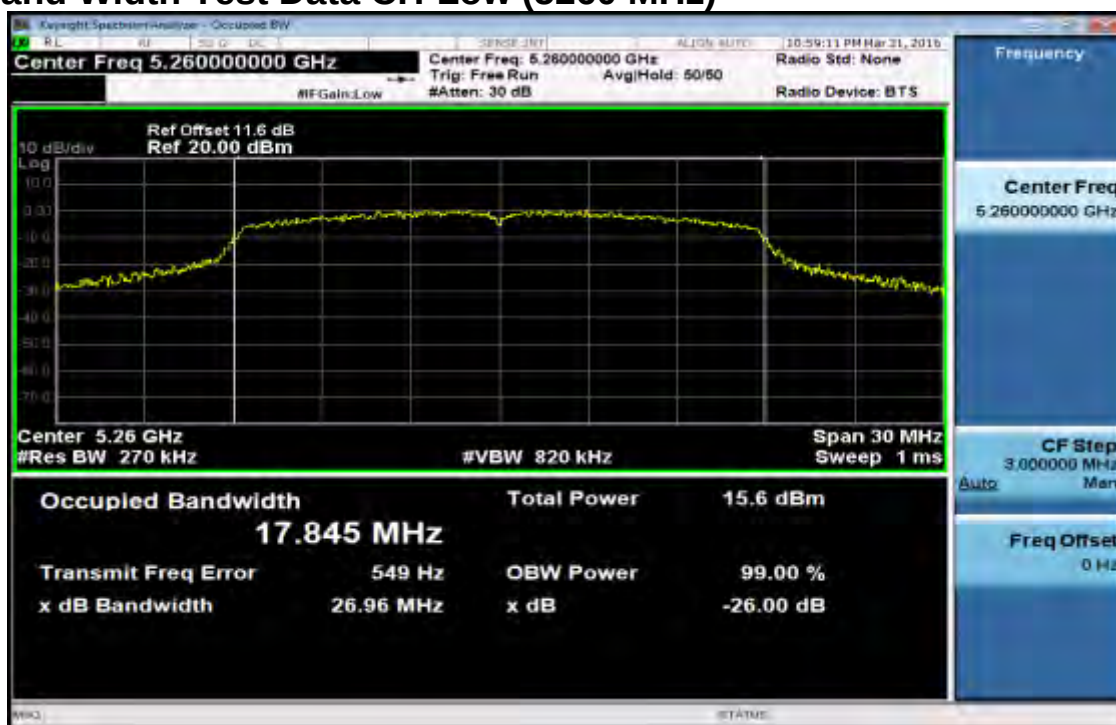
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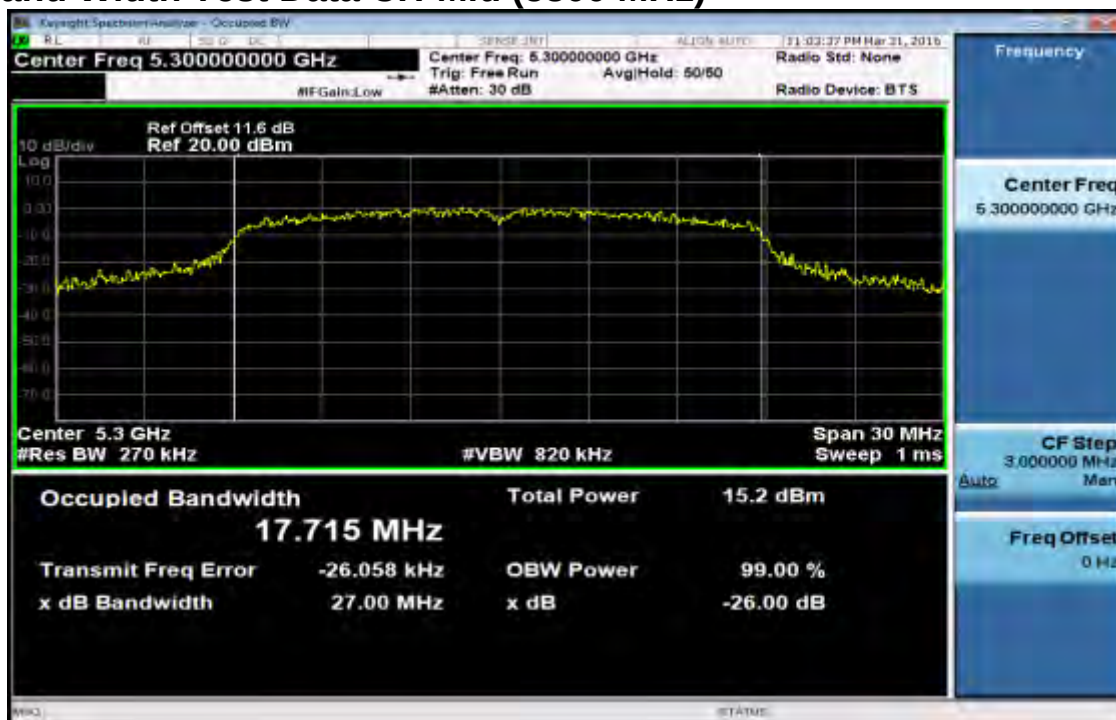
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Member of SGS Group

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



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



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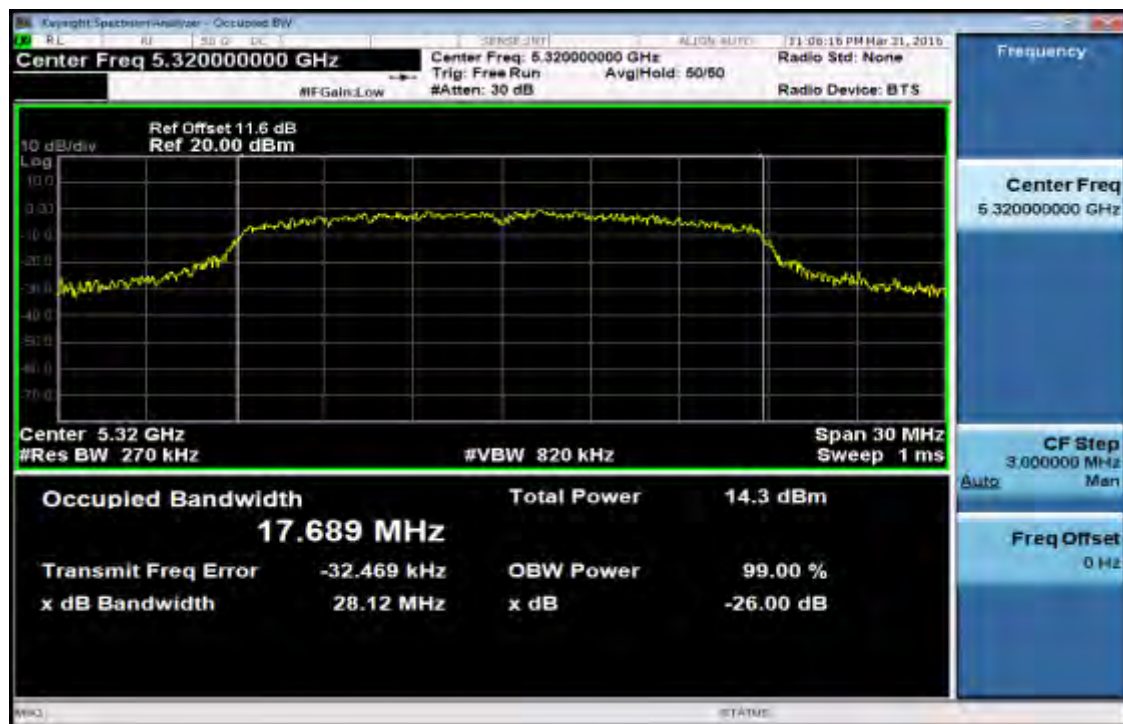
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26dB Band Width Test Data CH-High (5320 MHz)



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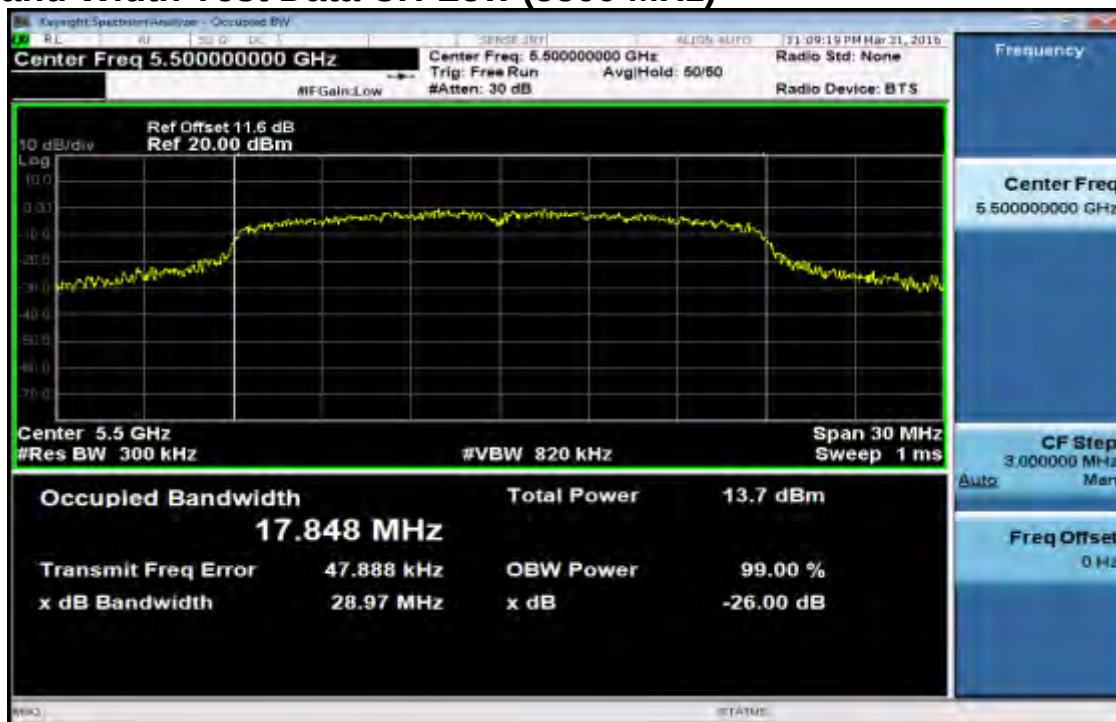
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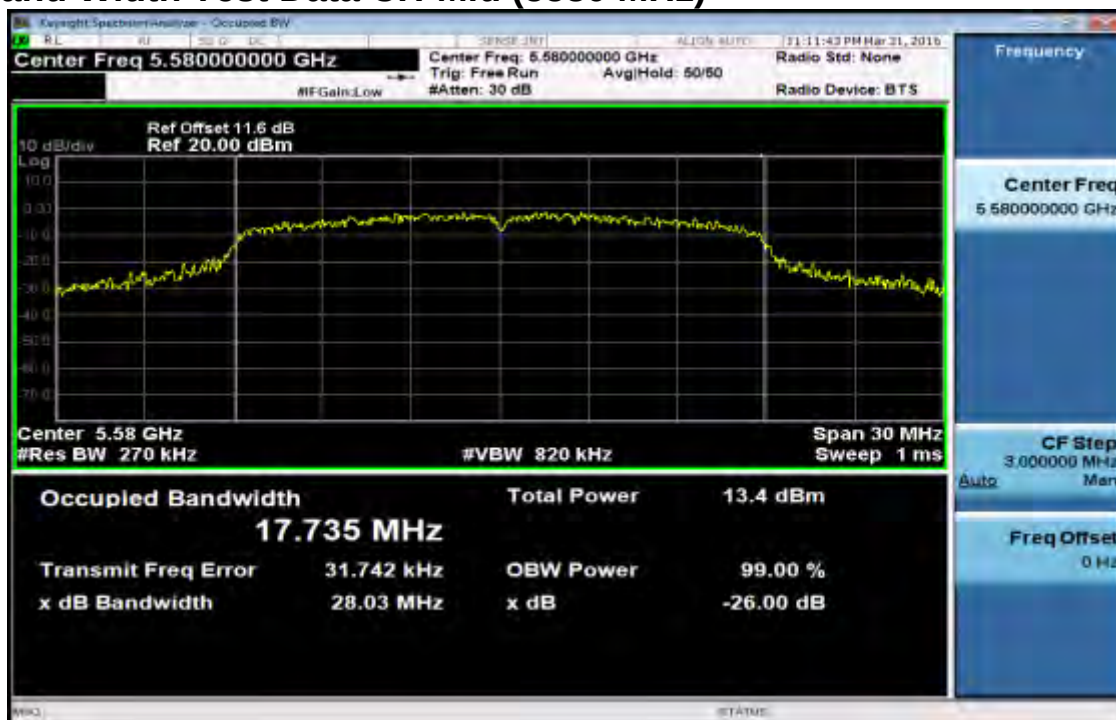
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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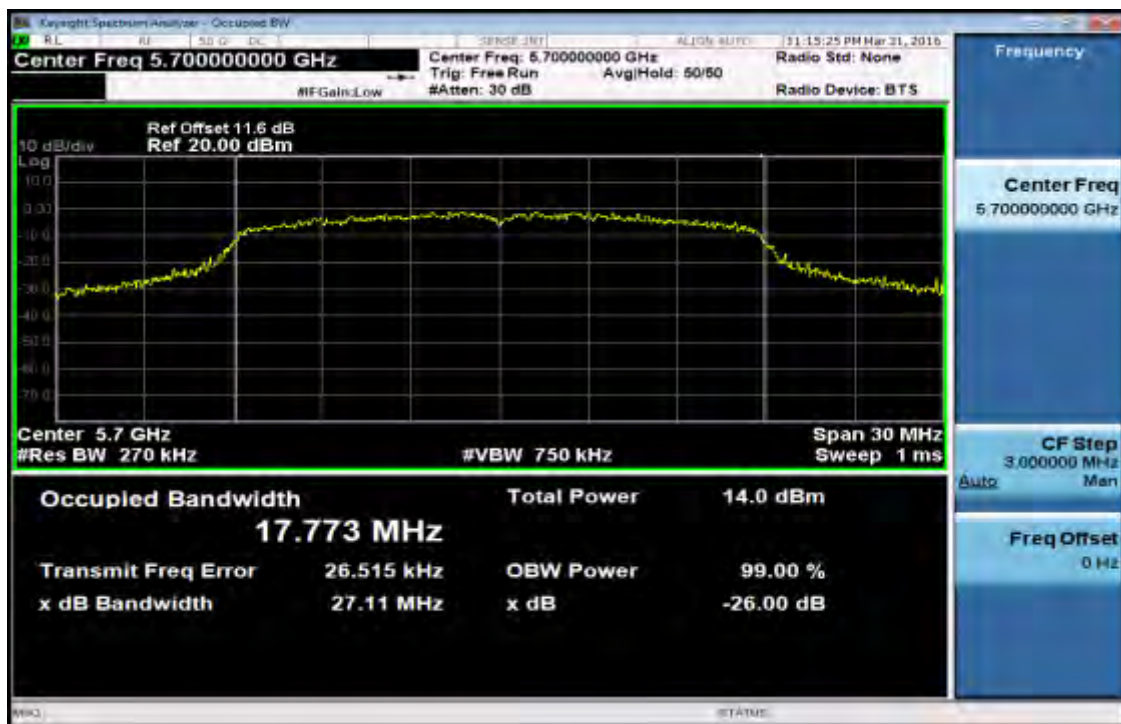
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26dB Band Width Test Data CH-High (5700 MHz)



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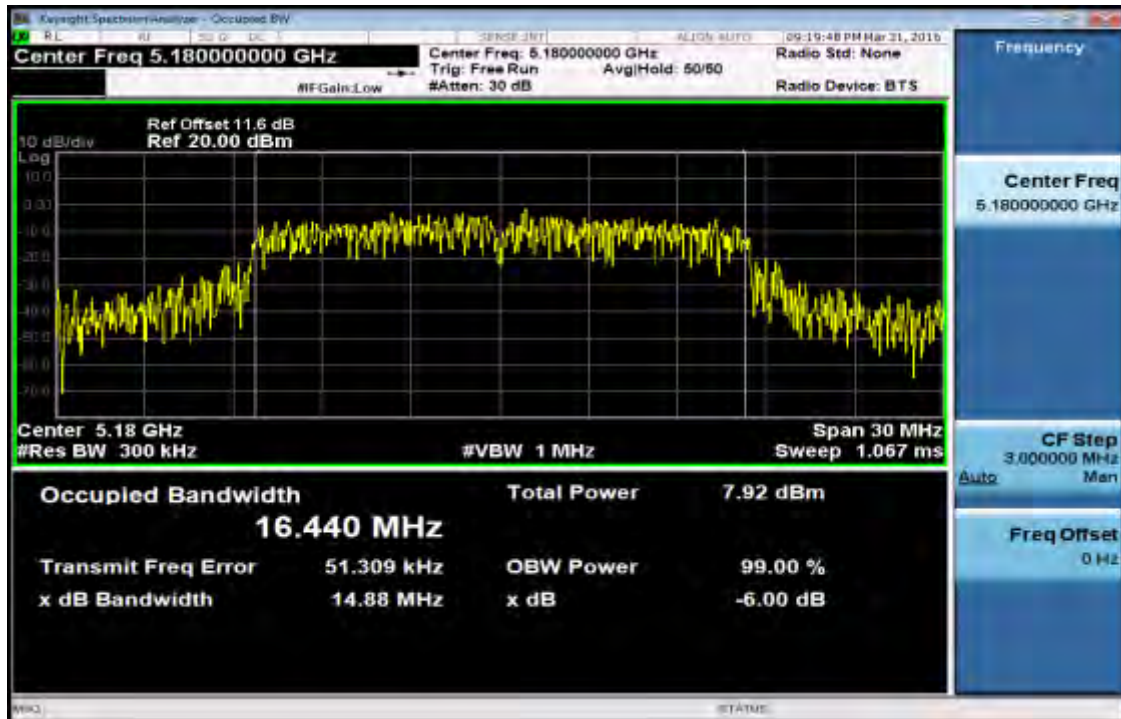
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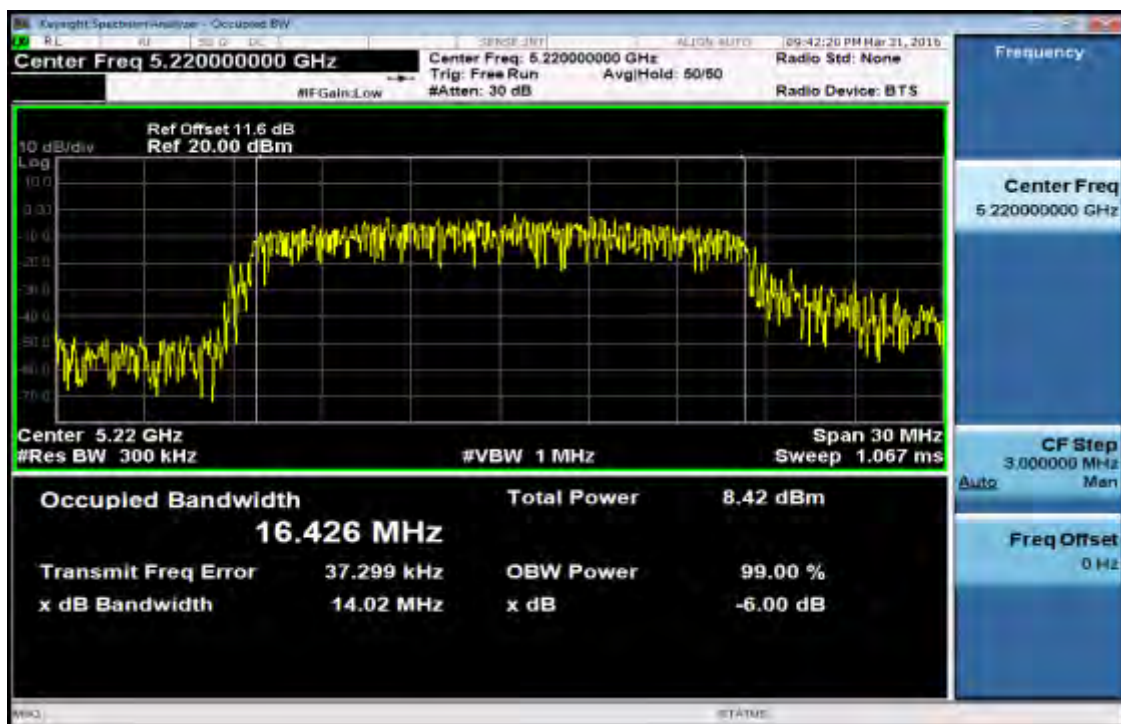
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802.11a, 5150~5250 MHz (Main)

99% Band Width Test Data CH-Low (5180MHz)



99% Band Width Test Data CH-Mid (5220MHz)



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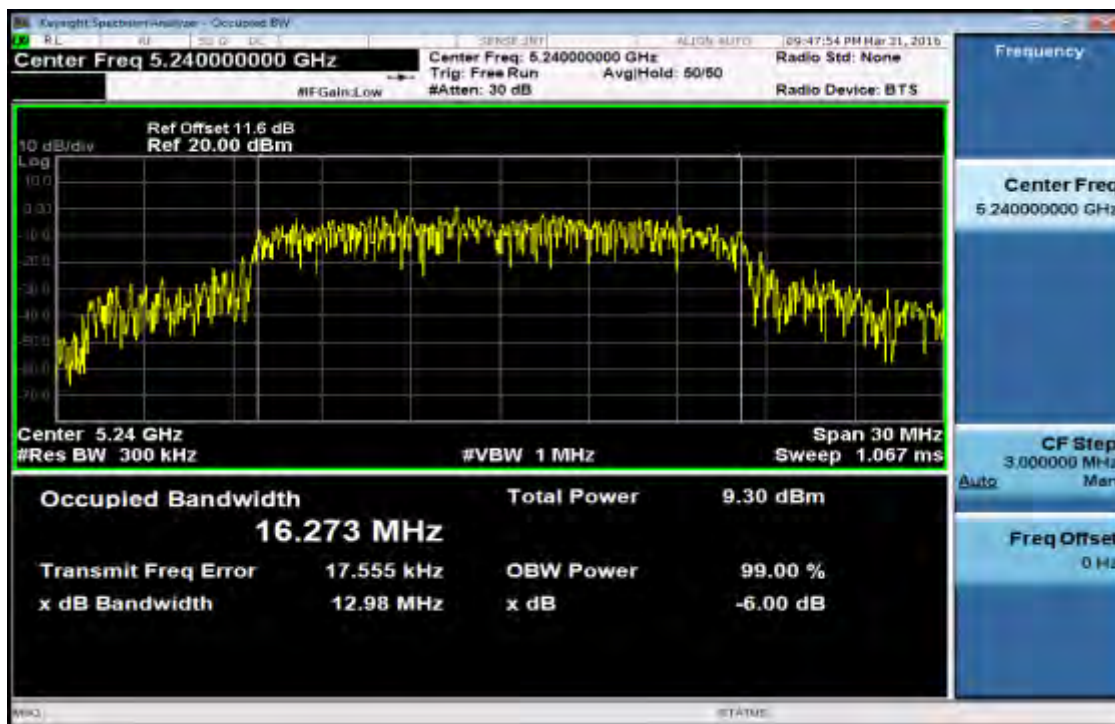
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99% Band Width Test Data CH-High (5240MHz)



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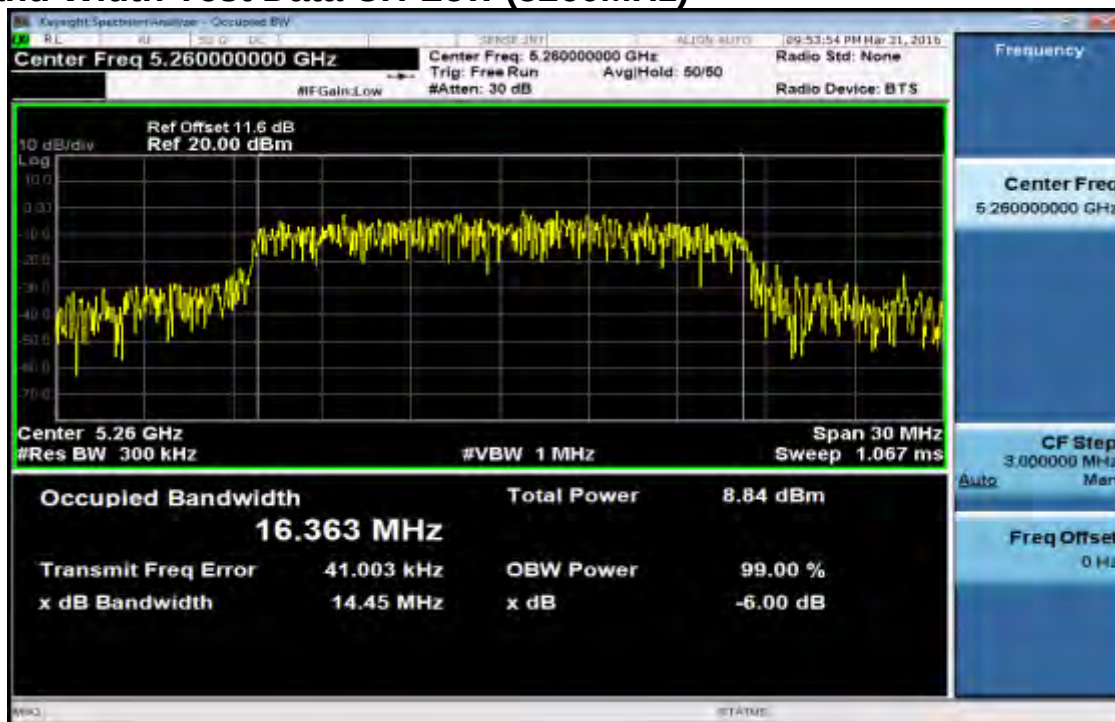
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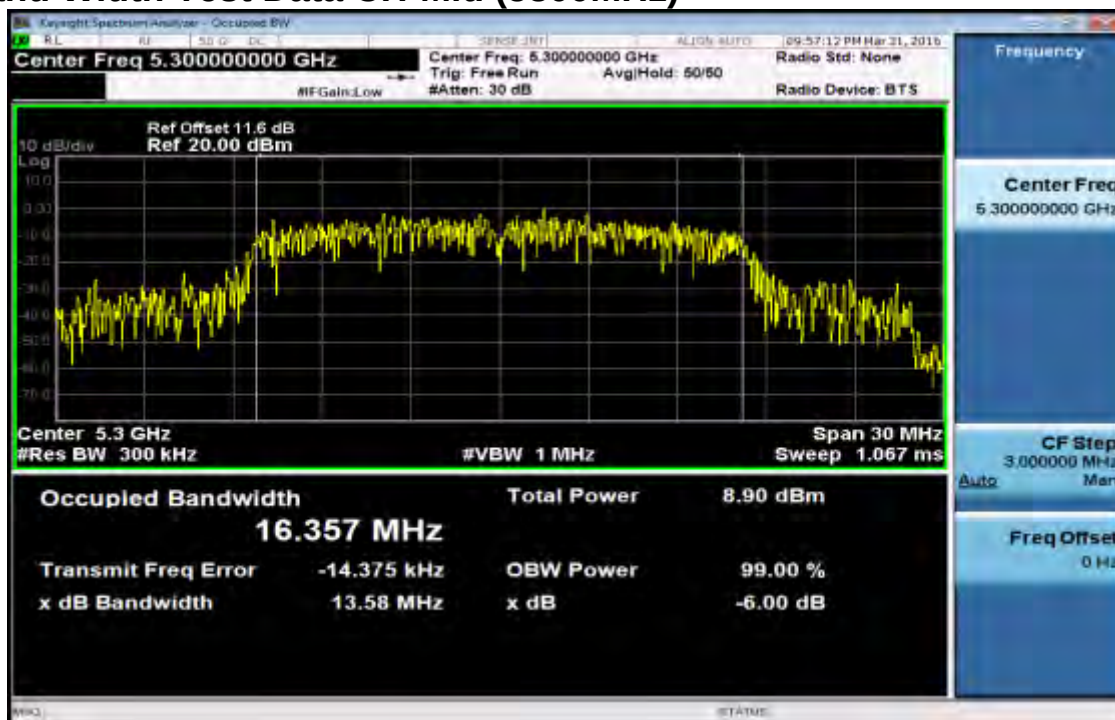
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802.11a, 5250~5350 MHz (Main)

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



99% Band Width Test Data CH-Mid (5300MHz)



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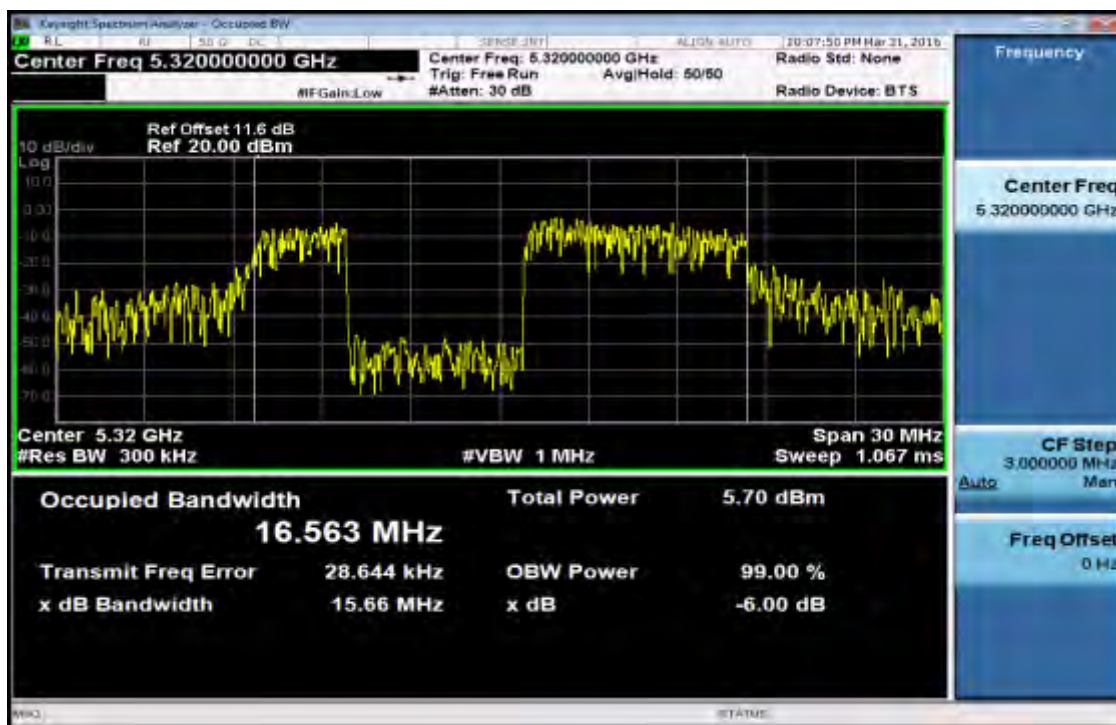
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99% Band Width Test Data CH-High (5320MHz)



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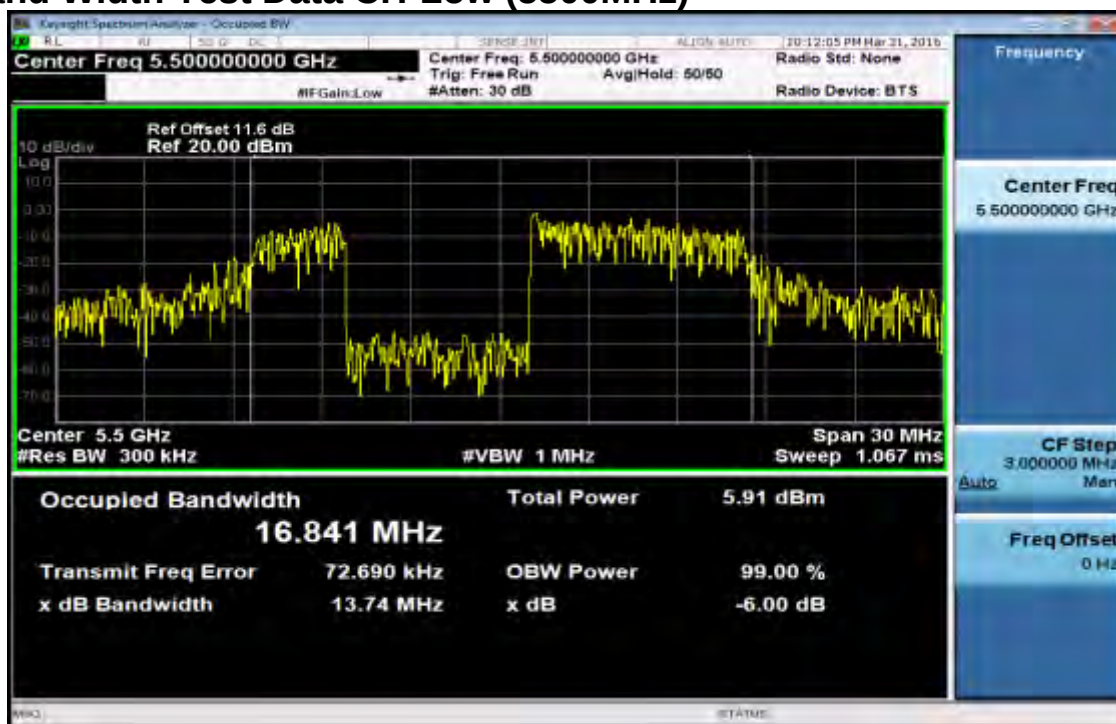
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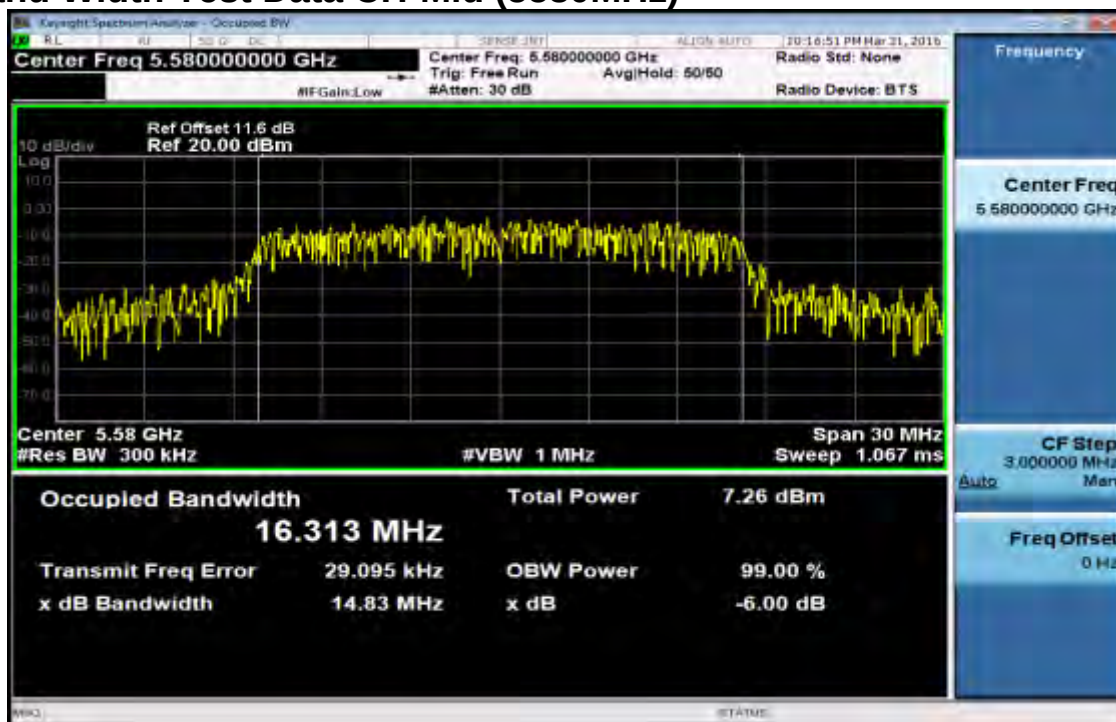
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802.11a, 5470~5725 MHz (Main)

99% Band Width Test Data CH-Low (5500MHz)



99% Band Width Test Data CH-Mid (5580MHz)



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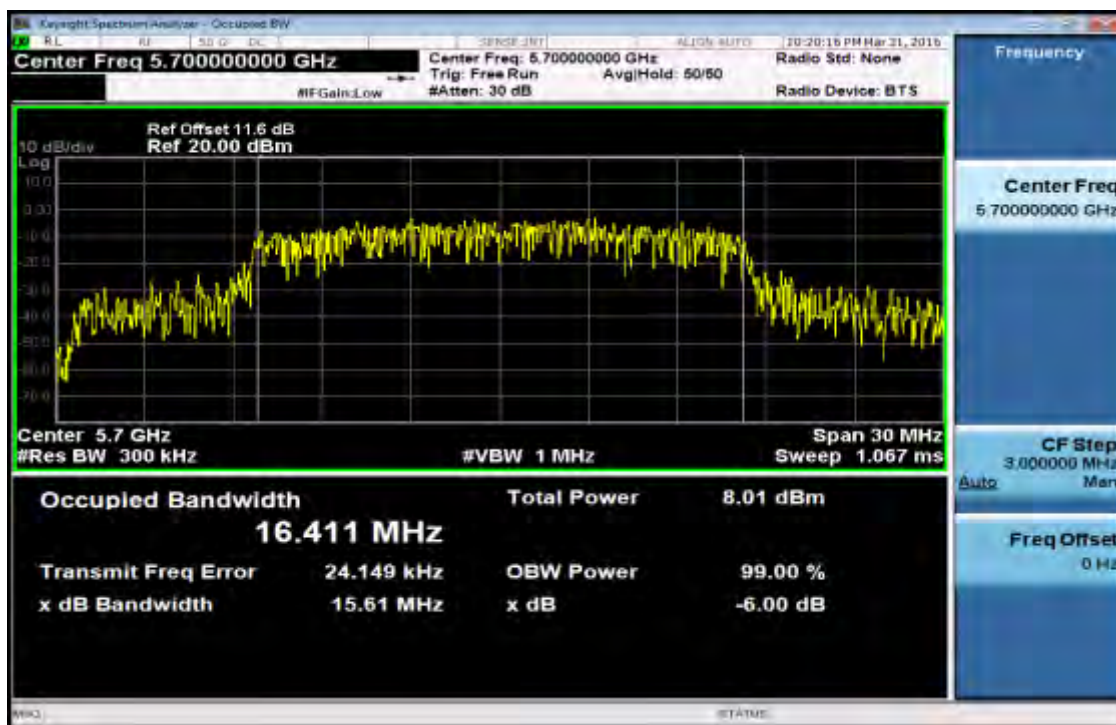
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99% Band Width Test Data CH-High (5700MHz)



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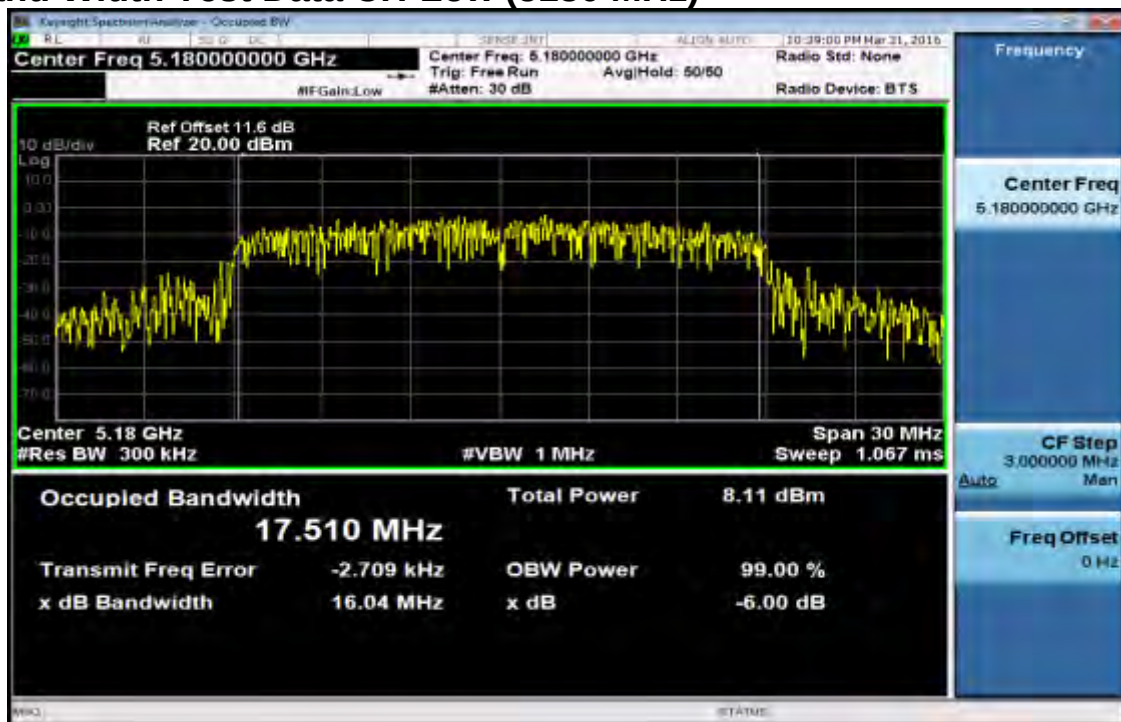
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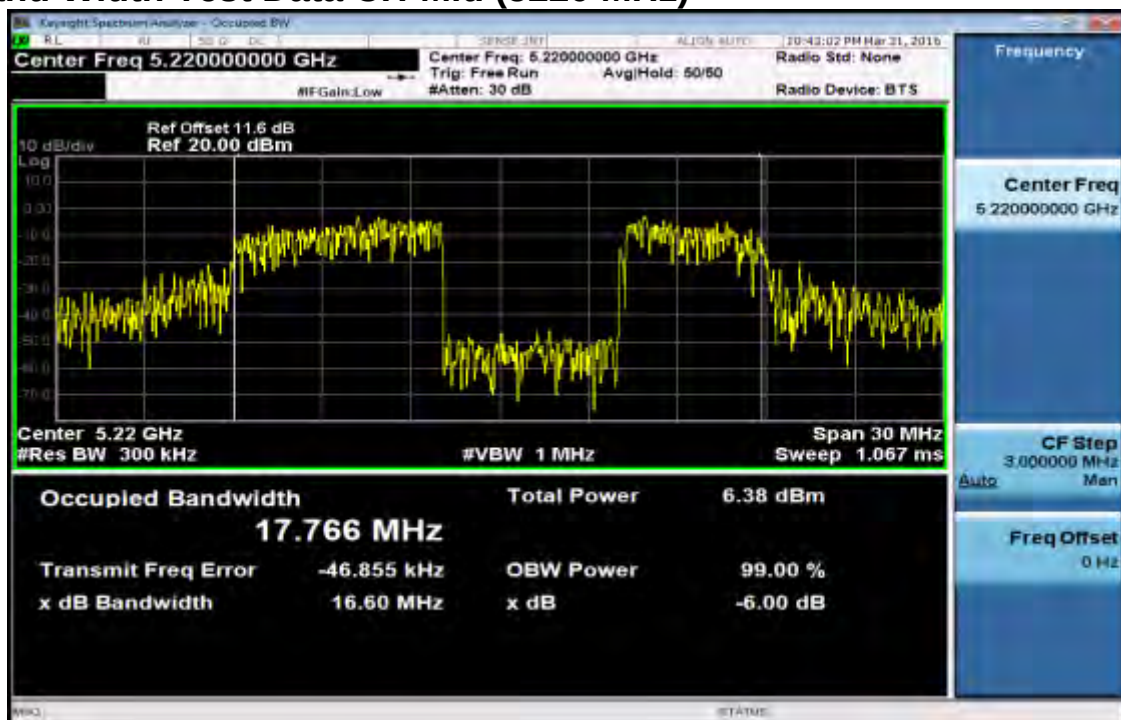
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802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180 MHz)



99% Band Width Test Data CH-Mid (5220 MHz)



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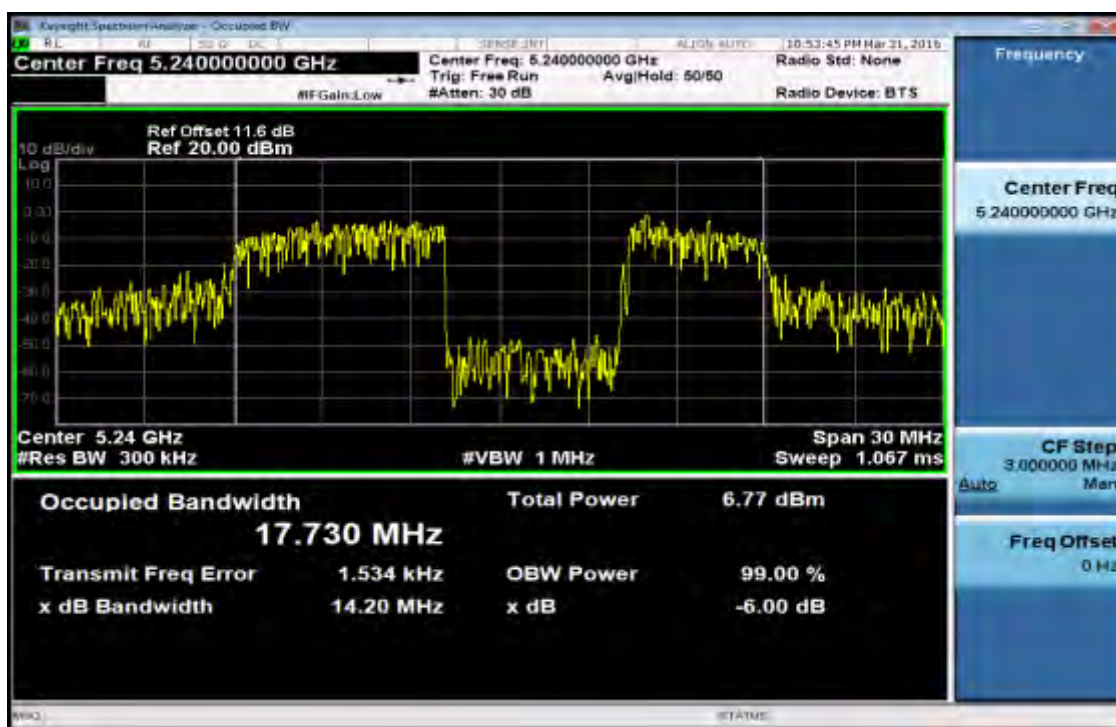
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99% Band Width Test Data CH-High (5240 MHz)



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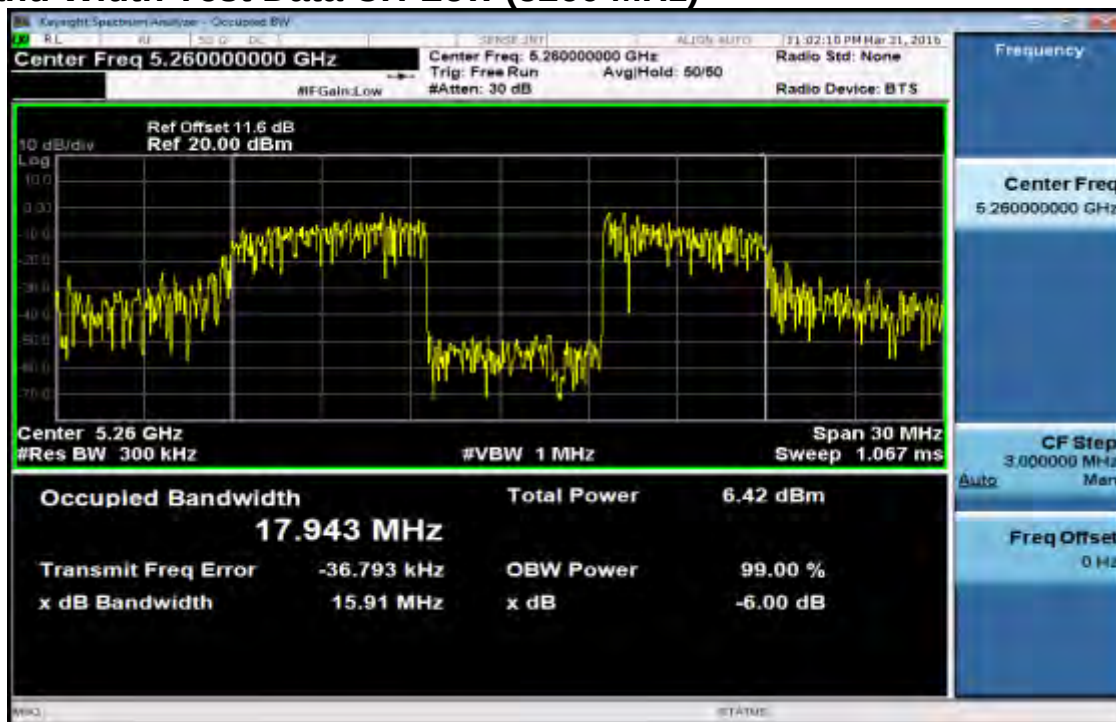
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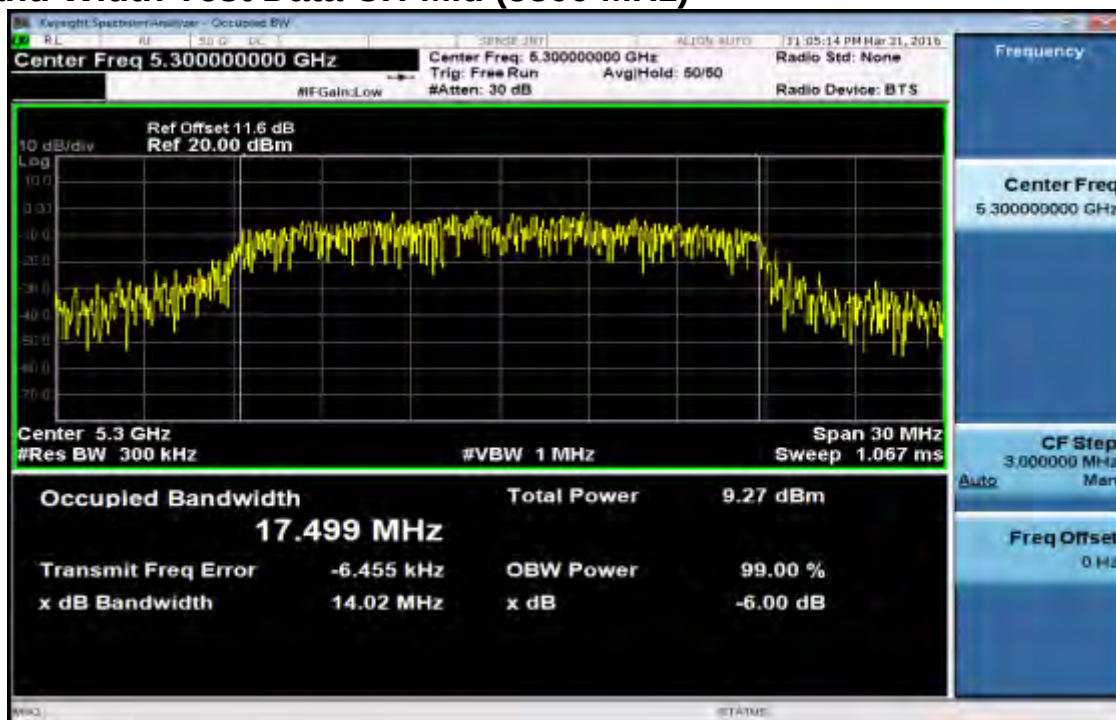
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802.11n HT20, 5250~5350 MHz (Main)

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



99% Band Width Test Data CH-Mid (5300 MHz)



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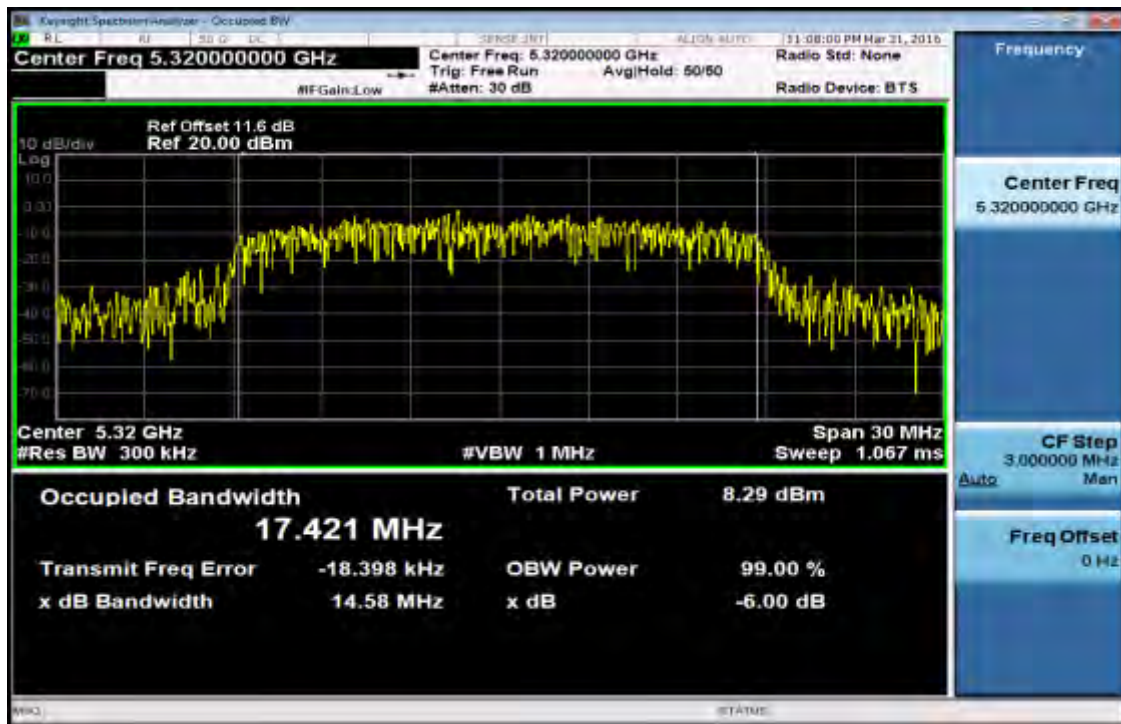
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99% Band Width Test Data CH-High (5320 MHz)



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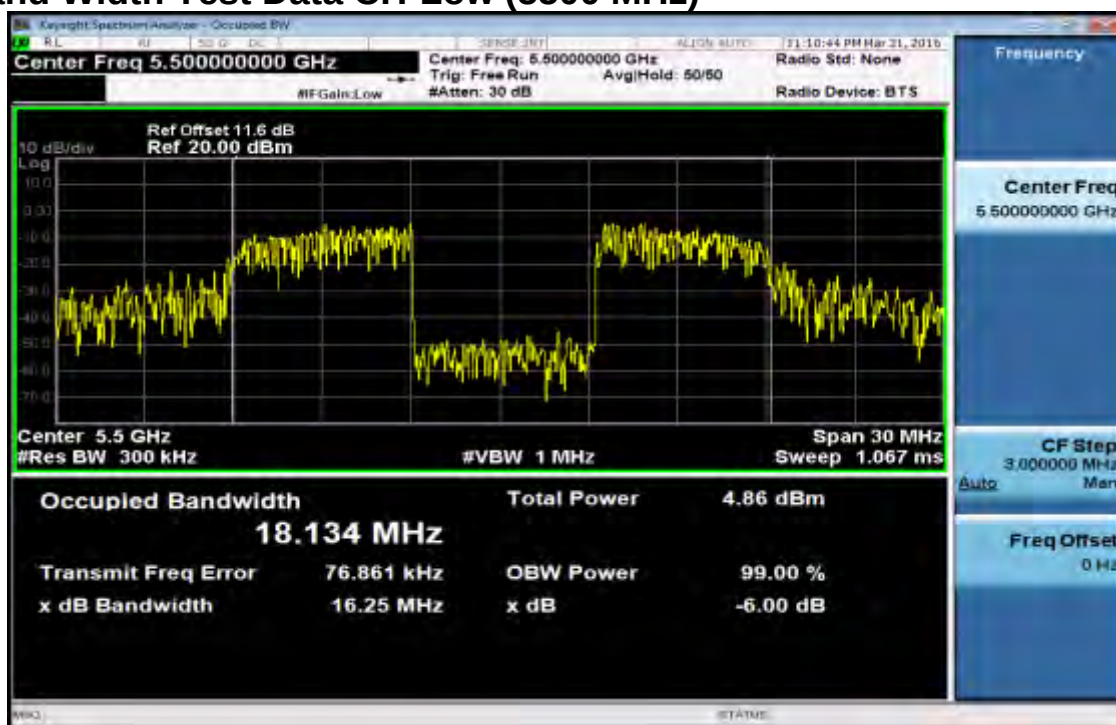
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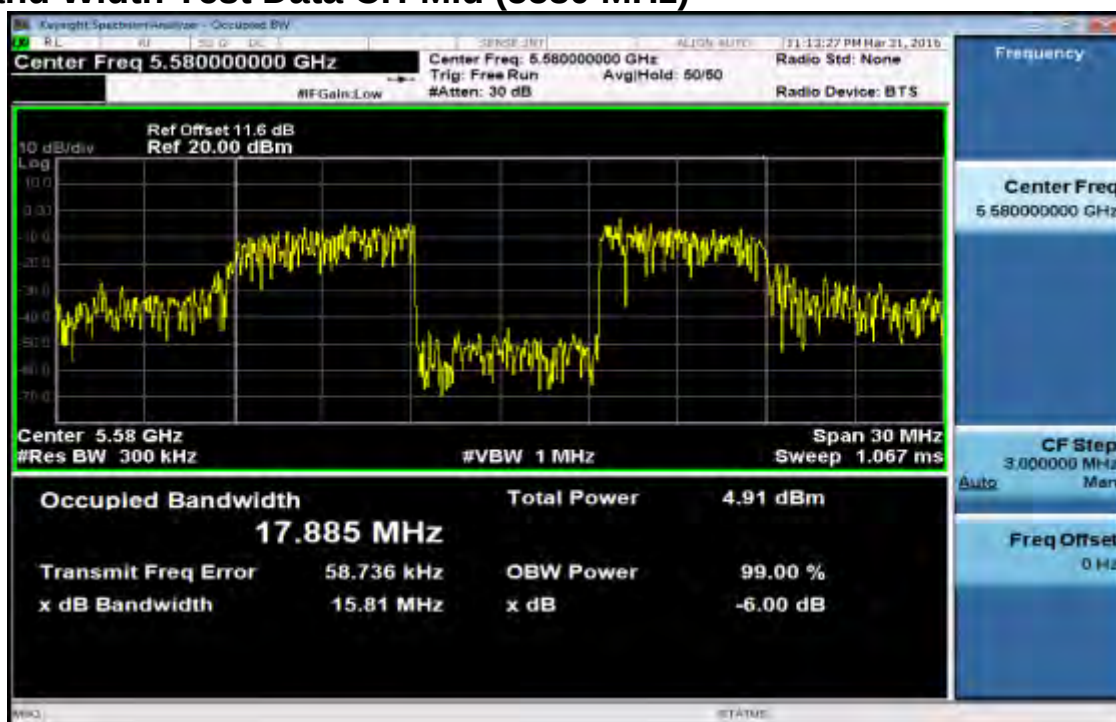
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802.11n HT20, 5470~5725 MHz (Main)

99% Band Width Test Data CH-Low (5500 MHz)



99% Band Width Test Data CH-Mid (5580 MHz)



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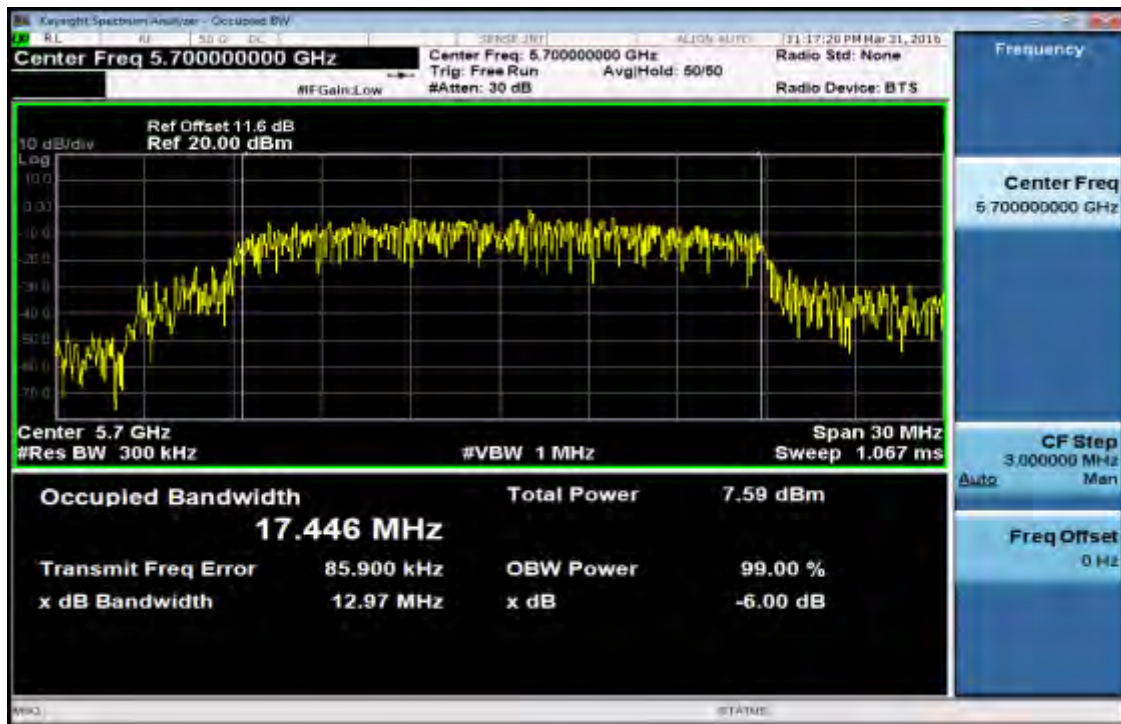
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99% Band Width Test Data CH-High (5700 MHz)



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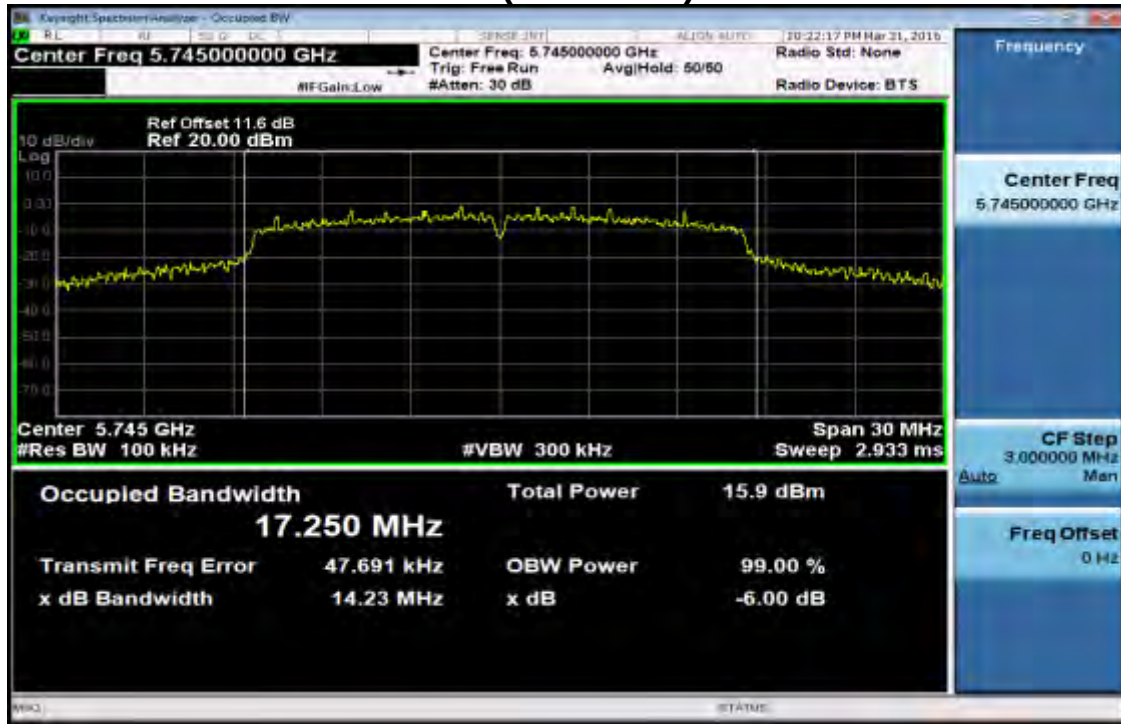
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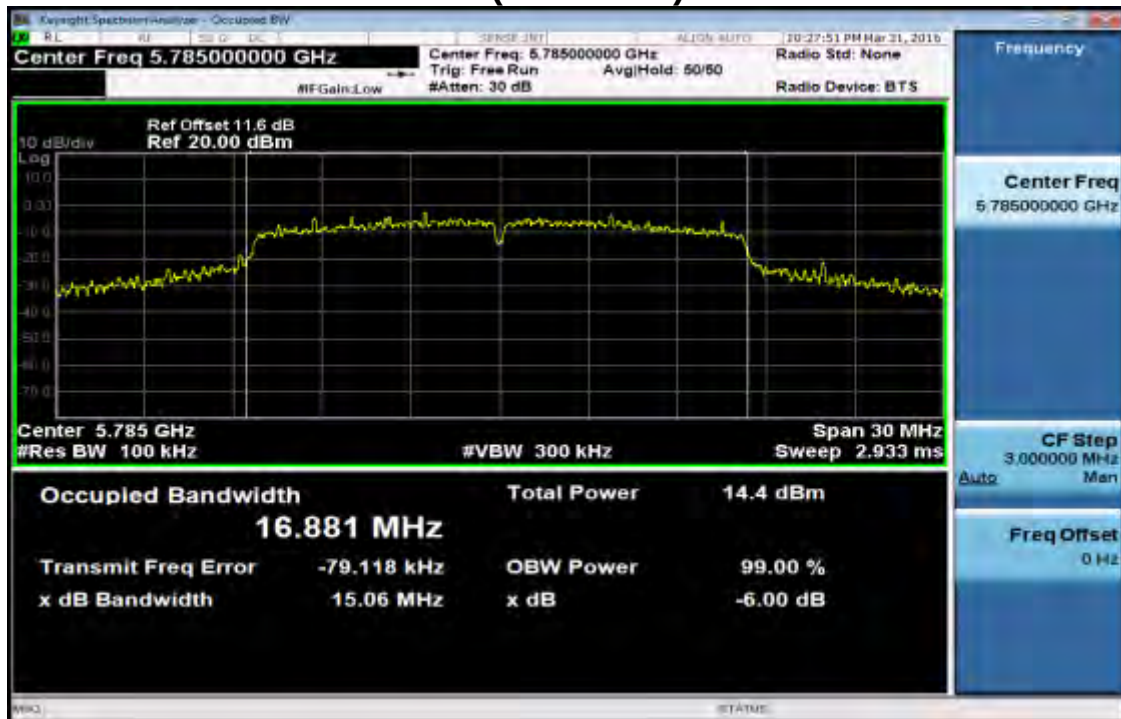
6dB Band Width measure with Peak detector for FCC

802.11a, 5725~5850 MHz (Main)

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



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



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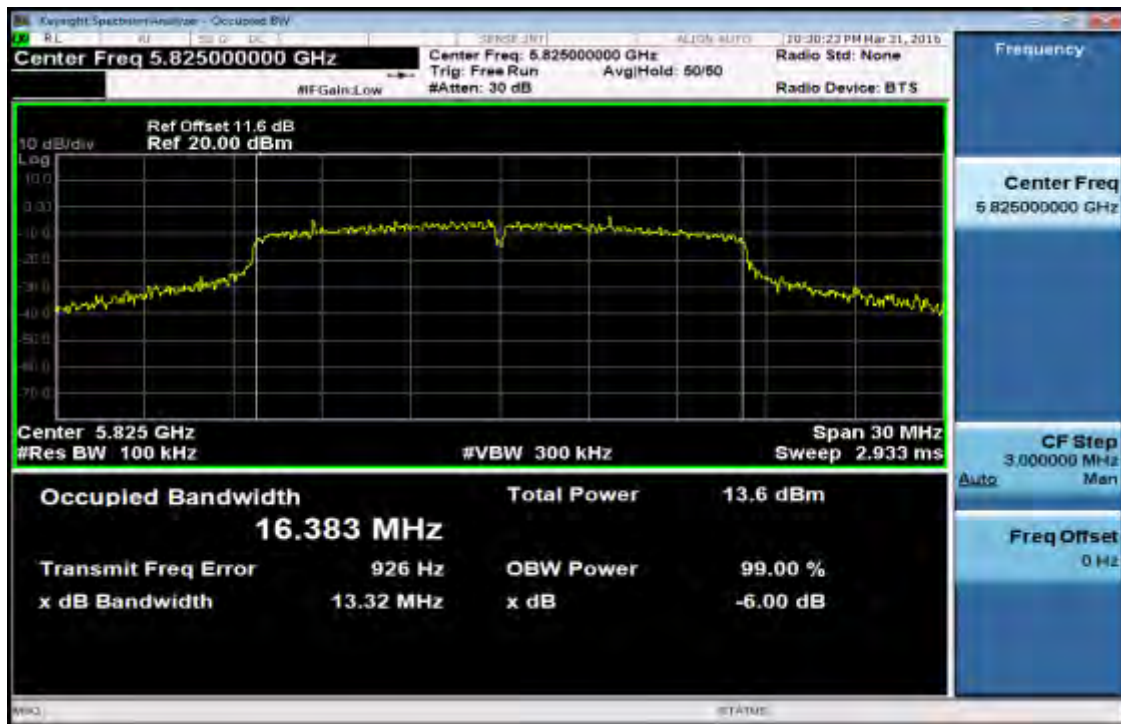
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6dB Band Width Test Data CH-High (5825 MHz)



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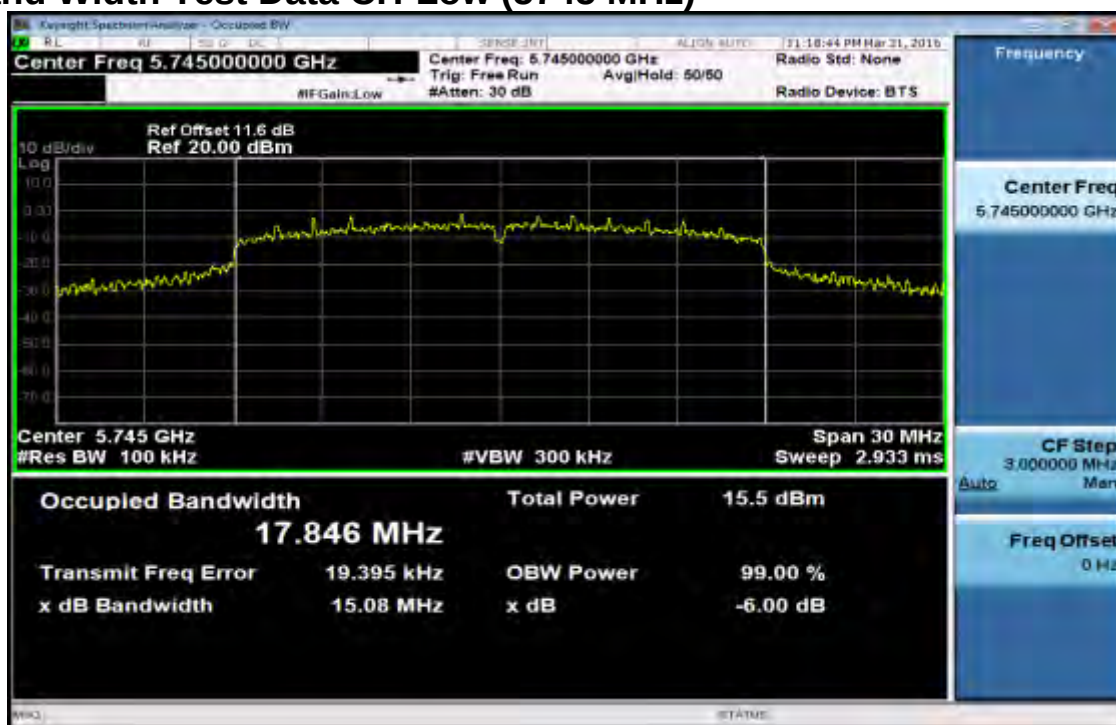
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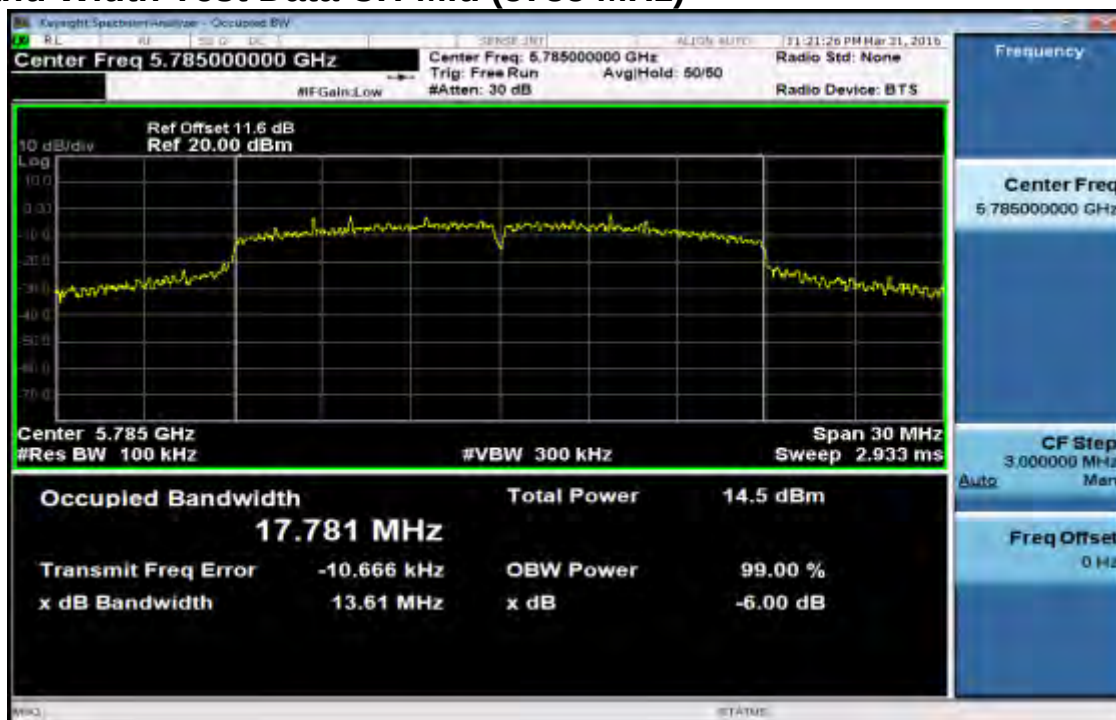
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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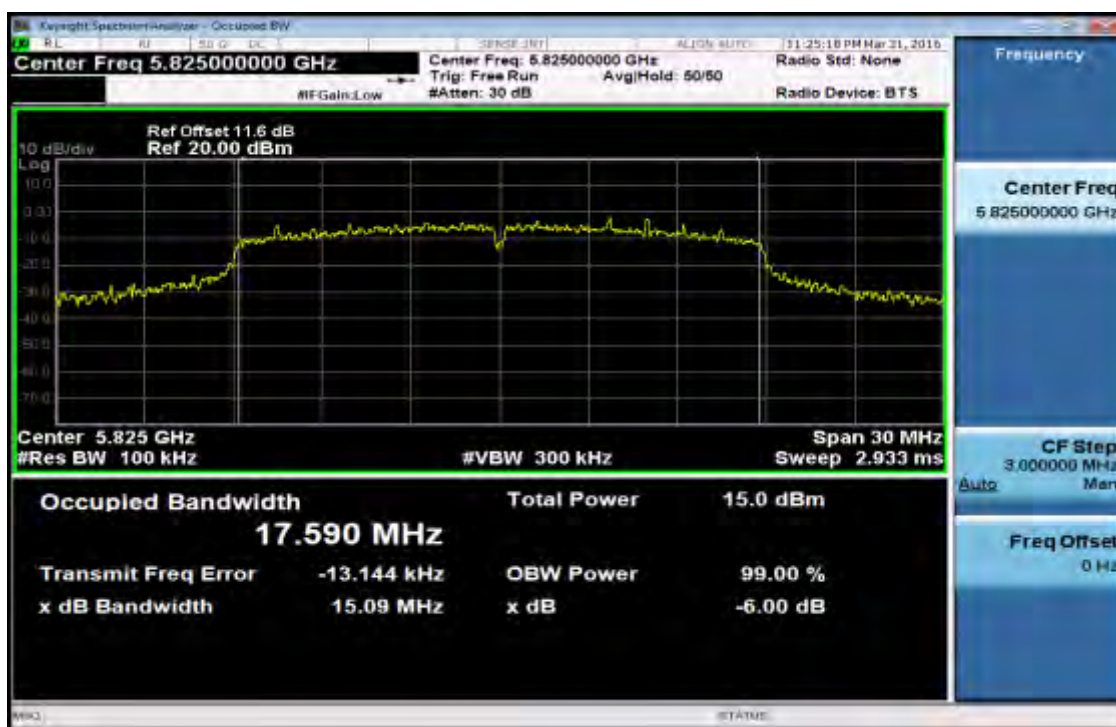
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6dB Band Width Test Data CH-High (5825 MHz)



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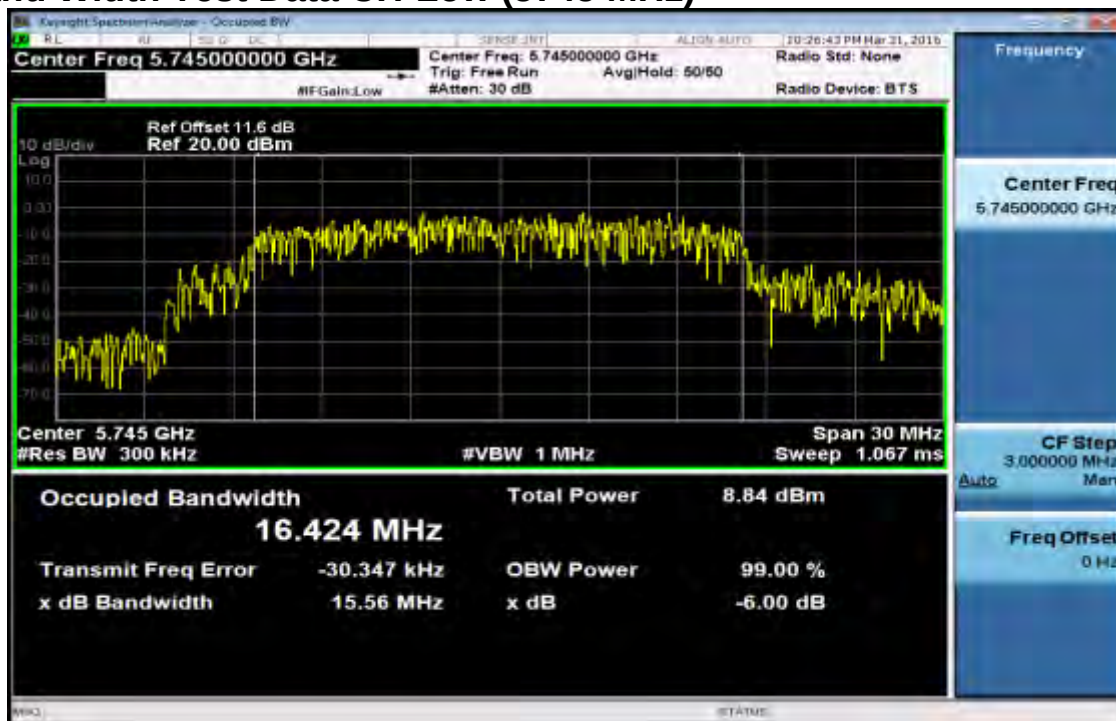
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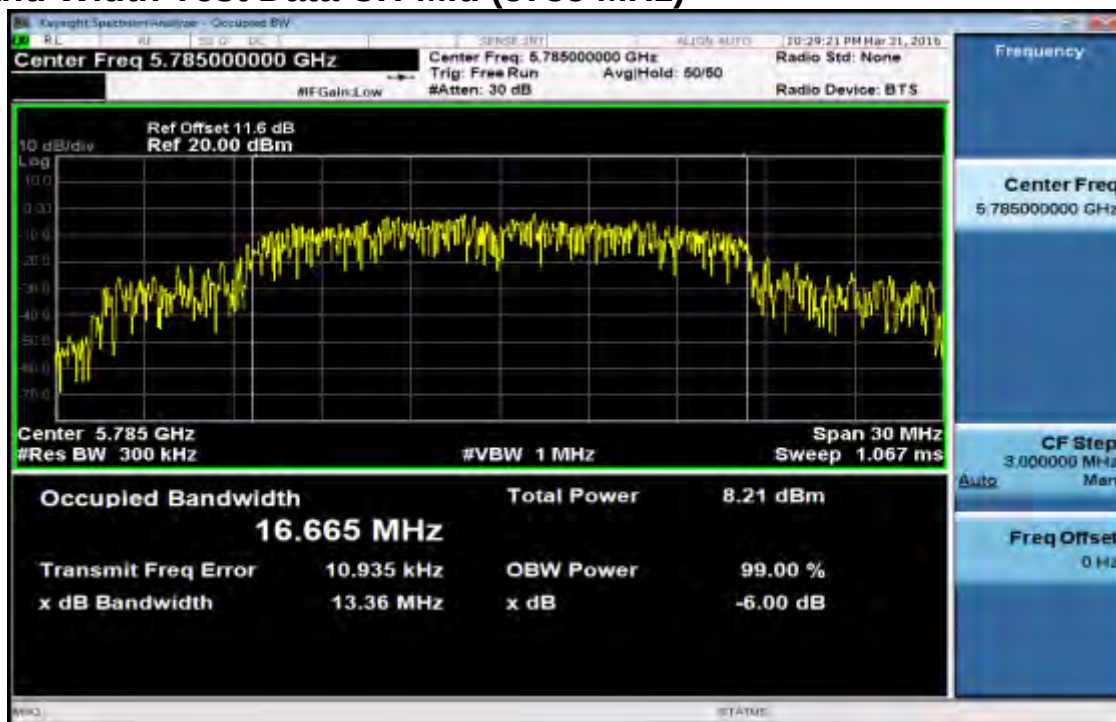
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6dB Band Width measure with Average detector for IC 802.11a, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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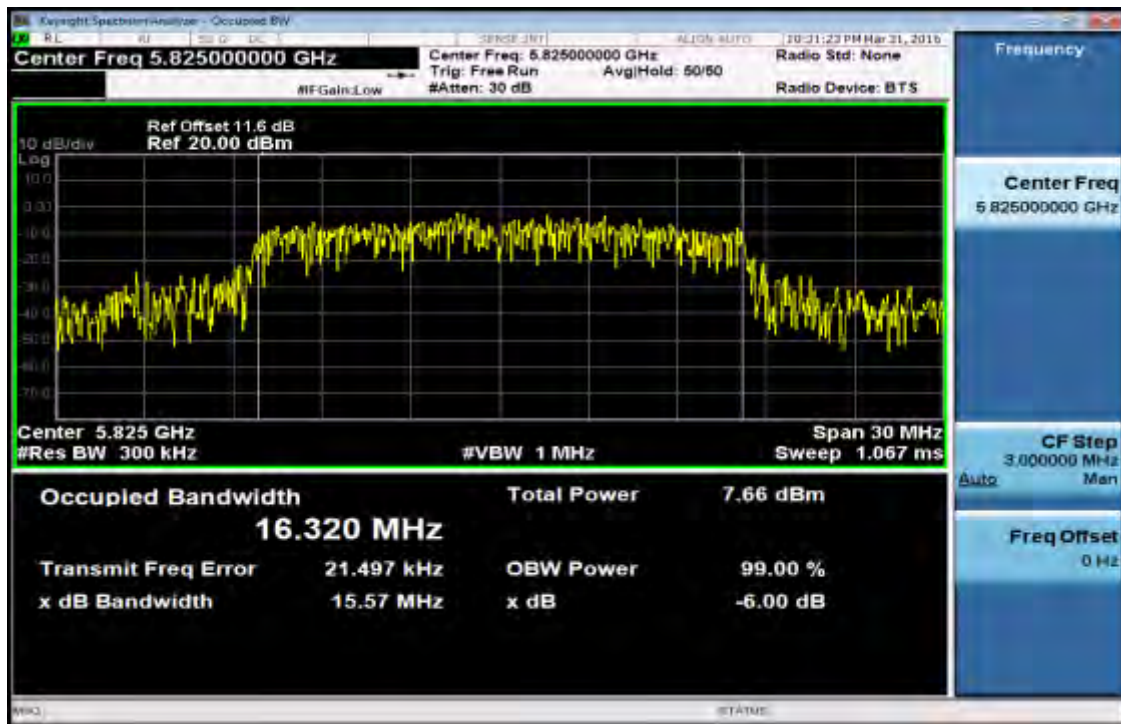
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6dB Band Width Test Data CH-High (5825 MHz)



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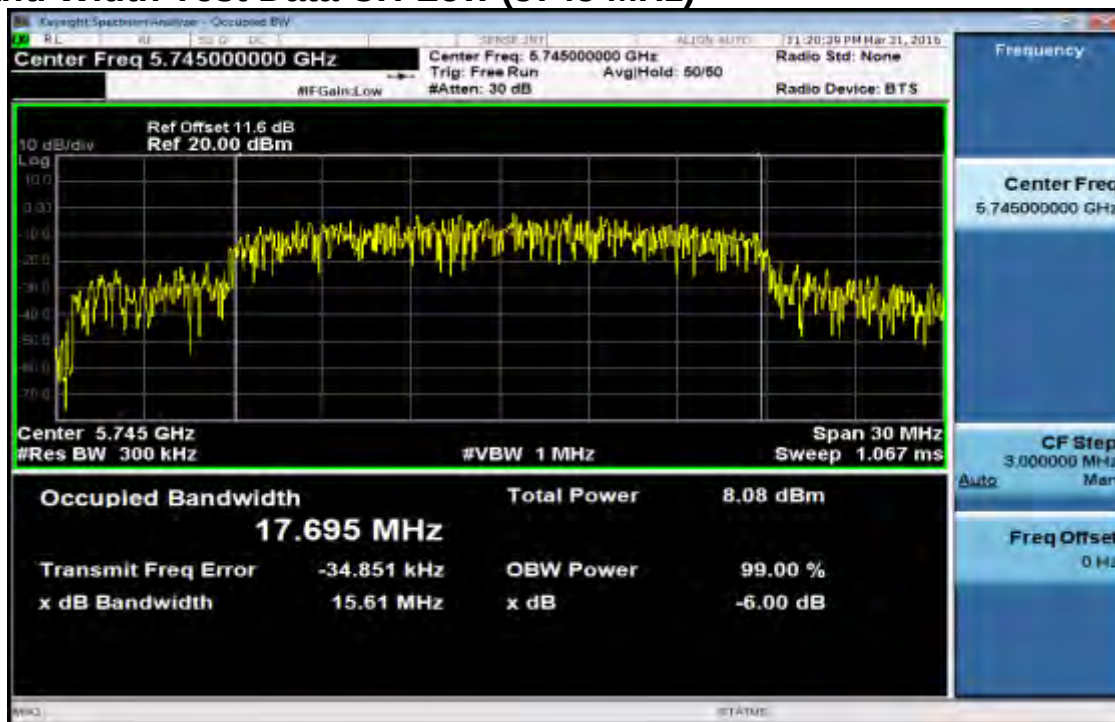
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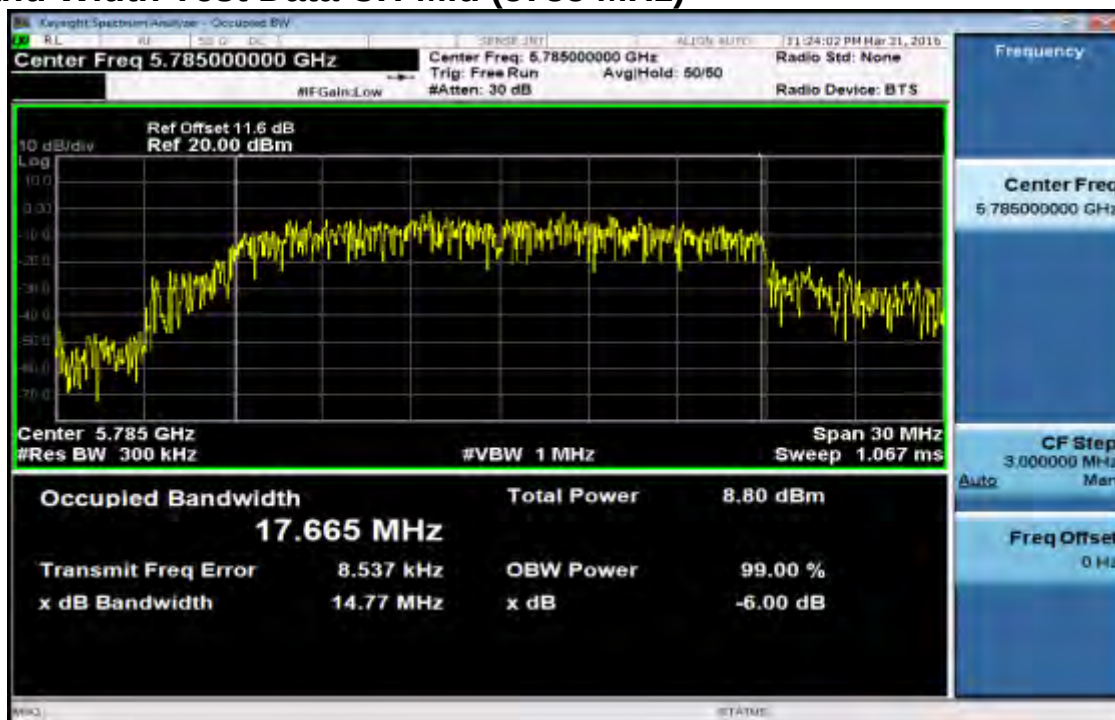
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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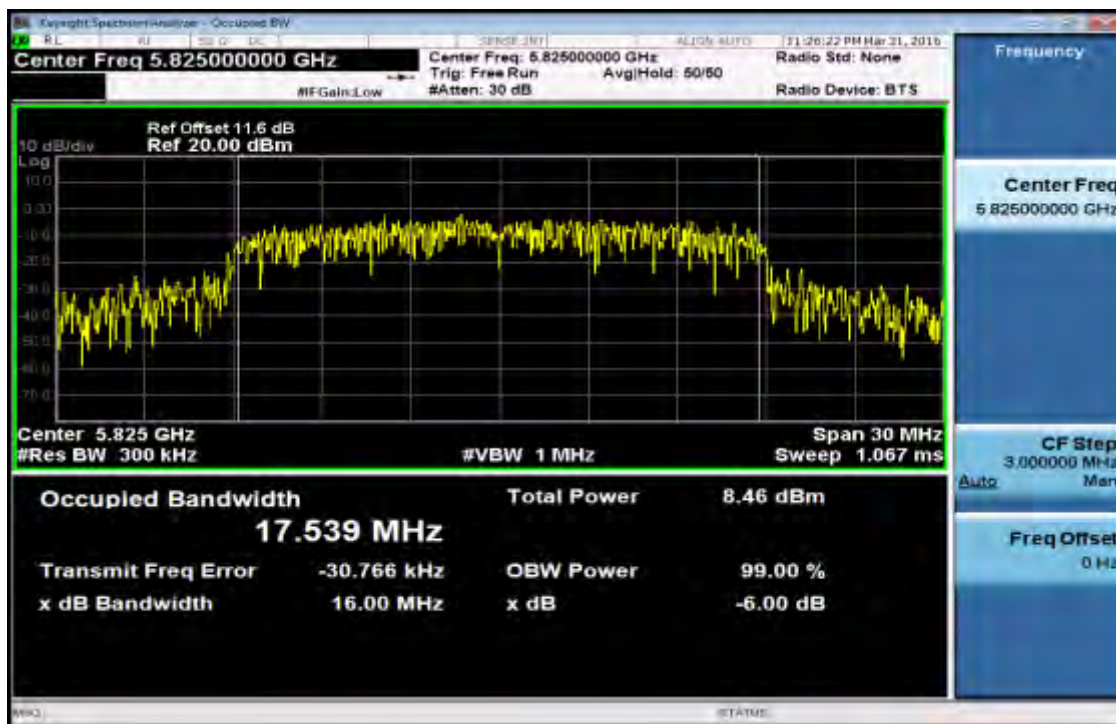
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6dB Band Width Test Data CH-High (5825 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

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

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log ₁₀ B, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

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

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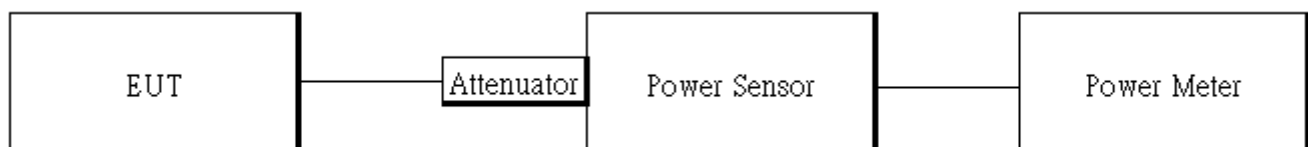
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

(FCC)

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.07	10.162	23.98	PASS
44	5220	10.04	10.093	23.98	PASS
48	5240	9.95	9.886	23.98	PASS
52	5260	9.98	9.954	23.98 or $11+10\log(B) = 24.96$	PASS
60	5300	10.02	10.046	23.98 or $11+10\log(B) = 25.48$	PASS
64	5320	10.06	10.139	23.98 or $11+10\log(B) = 25.11$	PASS
100	5500	9.88	9.727	23.98 or $11+10\log(B) = 25.55$	PASS
116	5580	9.95	9.886	23.98 or $11+10\log(B) = 25.44$	PASS
140	5700	10.1	10.233	23.98 or $11+10\log(B) = 25.12$	PASS
149	5745	9.96	9.908	30	PASS
157	5785	10.06	10.139	30	PASS
165	5825	9.88	9.727	30	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.08	10.186	23.98	PASS
44	5220	10.06	10.139	23.98	PASS
48	5240	10.04	10.093	23.98	PASS
52	5260	10.06	10.139	23.98 or $11+10\log(B) = 25.31$	PASS
60	5300	10.09	10.209	23.98 or $11+10\log(B) = 25.31$	PASS
64	5320	9.95	9.886	23.98 or $11+10\log(B) = 25.49$	PASS
100	5500	9.87	9.705	23.98 or $11+10\log(B) = 25.62$	PASS
116	5580	10.07	10.162	23.98 or $11+10\log(B) = 25.48$	PASS
140	5700	9.81	9.572	23.98 or $11+10\log(B) = 25.33$	PASS
149	5745	10.01	10.023	30	PASS
157	5785	10.09	10.209	30	PASS
165	5825	10.02	10.046	30	PASS

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Conducted output power (IC)

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	9.98	9.954	23.98 or $11+10\log(B) = 23.14$	PASS
60	5300	10.02	10.046	23.98 or $11+10\log(B) = 23.14$	PASS
64	5320	10.06	10.139	23.98 or $11+10\log(B) = 23.19$	PASS
100	5500	9.88	9.727	23.98 or $11+10\log(B) = 23.26$	PASS
116	5580	9.95	9.886	23.98 or $11+10\log(B) = 23.13$	PASS
140	5700	10.10	10.233	23.98 or $11+10\log(B) = 23.15$	PASS
149	5745	9.96	9.908	30	PASS
157	5785	10.06	10.139	30	PASS
165	5825	9.88	9.727	30	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	10.06	10.139	23.98 or $11+10\log(B) = 23.54$	PASS
60	5300	10.09	10.209	23.98 or $11+10\log(B) = 23.43$	PASS
64	5320	9.95	9.886	23.98 or $11+10\log(B) = 23.41$	PASS
100	5500	9.87	9.705	23.98 or $11+10\log(B) = 23.58$	PASS
116	5580	10.07	10.162	23.98 or $11+10\log(B) = 23.52$	PASS
140	5700	9.81	9.572	23.98 or $11+10\log(B) = 23.42$	PASS
149	5745	10.01	10.023	30	PASS
157	5785	10.09	10.209	30	PASS
165	5825	10.02	10.046	30	PASS

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EIRP

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.07	2.000	12.070	23.01 or 10+10log(B)= 22.16	PASS
44	5220	10.04	2.000	12.040	23.01 or 10+10log(B)= 22.16	PASS
48	5240	9.95	2.000	11.950	23.01 or 10+10log(B)= 22.11	PASS
52	5260	9.98	2.000	11.980	30 or 17+10log(B)= 29.14	PASS
60	5300	10.02	2.000	12.020	30 or 17+10log(B)= 29.14	PASS
64	5320	10.06	2.000	12.060	30 or 17+10log(B)= 29.19	PASS
100	5500	9.88	2.000	11.880	30 or 17+10log(B)= 29.26	PASS
116	5580	9.95	2.000	11.950	30 or 17+10log(B)= 29.13	PASS
140	5700	10.10	2.000	12.100	30 or 17+10log(B)= 29.15	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.08	2.000	12.080	23.01 or 10+10log(B)= 22.43	PASS
44	5220	10.06	2.000	12.060	23.01 or 10+10log(B)= 22.50	PASS
48	5240	10.04	2.000	12.040	23.01 or 10+10log(B)= 22.49	PASS
52	5260	10.06	2.000	12.060	30 or 17+10log(B)= 29.54	PASS
60	5300	10.09	2.000	12.090	30 or 17+10log(B)= 29.43	PASS
64	5320	9.95	2.000	11.950	30 or 17+10log(B)= 29.41	PASS
100	5500	9.87	2.000	11.870	30 or 17+10log(B)= 29.58	PASS
116	5580	10.07	2.000	12.070	30 or 17+10log(B)= 29.52	PASS
140	5700	9.81	2.000	11.810	30 or 17+10log(B)= 29.42	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

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

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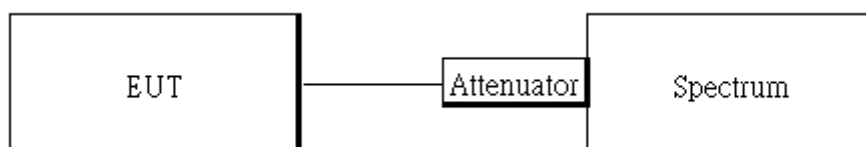
10.2 Measurement Procedure

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

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)	Duty Factor(dB)	Limit (dBm)	Margin (dB)
5180	-7.94	0.61	17	-24.33
5220	-8.10	0.61	17	-24.49
5240	-4.92	0.61	17	-21.31
5260	-7.68	0.61	11	-18.07
5300	-6.53	0.61	11	-16.92
5320	-6.87	0.61	11	-17.26
5500	-7.87	0.61	11	-18.26
5580	-11.64	0.61	11	-22.03
5700	-10.18	0.61	11	-20.57
5745	3.53	0.61	30	-25.86
5785	2.17	0.61	30	-27.22
5825	2.57	0.61	30	-26.82

POWER DENSITY 802.11n HT20 MODE				
Frequency (MHz)	PPSD (dBm)	Duty Factor(dB)	Limit (dBm)	Margin (dB)
5180	-8.00	0.65	17	-24.35
5220	-6.97	0.65	17	-23.32
5240	-6.13	0.65	17	-22.48
5260	-7.84	0.65	11	-18.19
5300	-5.64	0.65	11	-15.99
5320	-9.98	0.65	11	-20.33
5500	-8.56	0.65	11	-18.91
5580	-9.83	0.65	11	-20.18
5700	-11.82	0.65	11	-22.17
5745	2.60	0.65	30	-26.75
5785	2.11	0.65	30	-27.24
5825	2.29	0.65	30	-27.06

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EIRP Power Density

Frequency (MHz)	PPSD (dBm)	Duty Factor	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5180	-7.94	0.61	2.00	-5.33	10	-17.33
5220	-8.10	0.61	2.00	-6.10	10	-17.49
5240	-4.92	0.61	2.00	-2.92	10	-14.31

Frequency (MHz)	PPSD (dBm)	Duty Factor	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5180	-8.00	0.65	2.00	-6.00	10	-17.35
5220	-6.97	0.65	2.00	-4.97	10	-16.32
5240	-6.13	0.65	2.00	-4.13	10	-15.48

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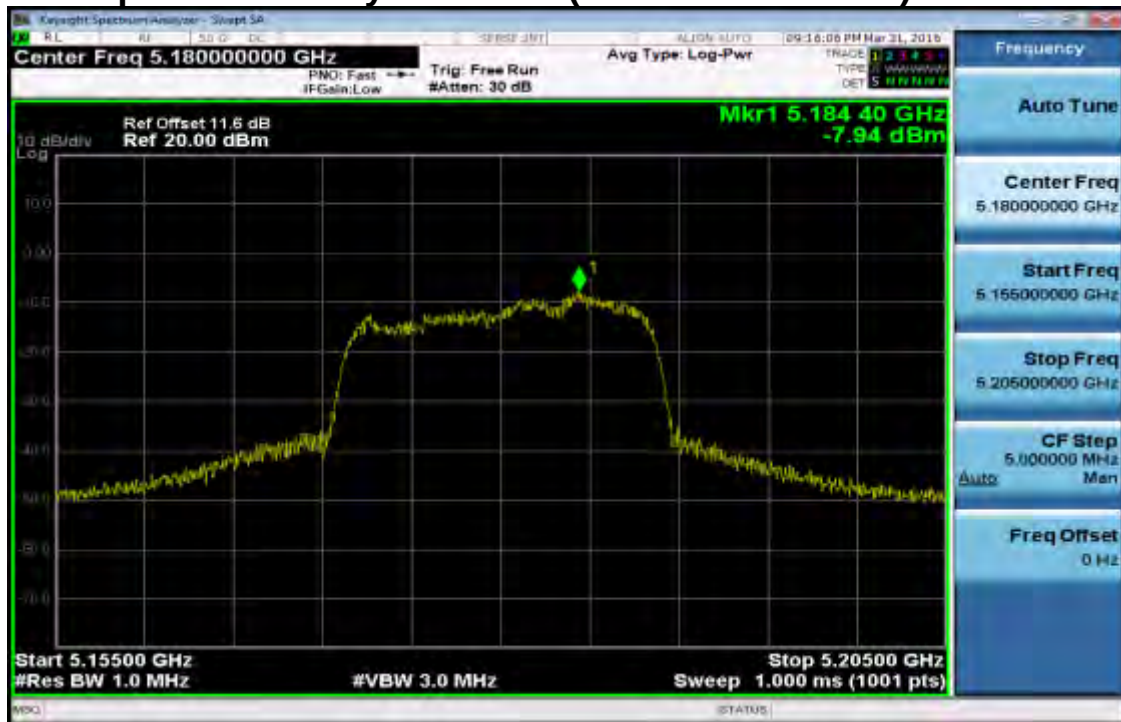
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802.11a 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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



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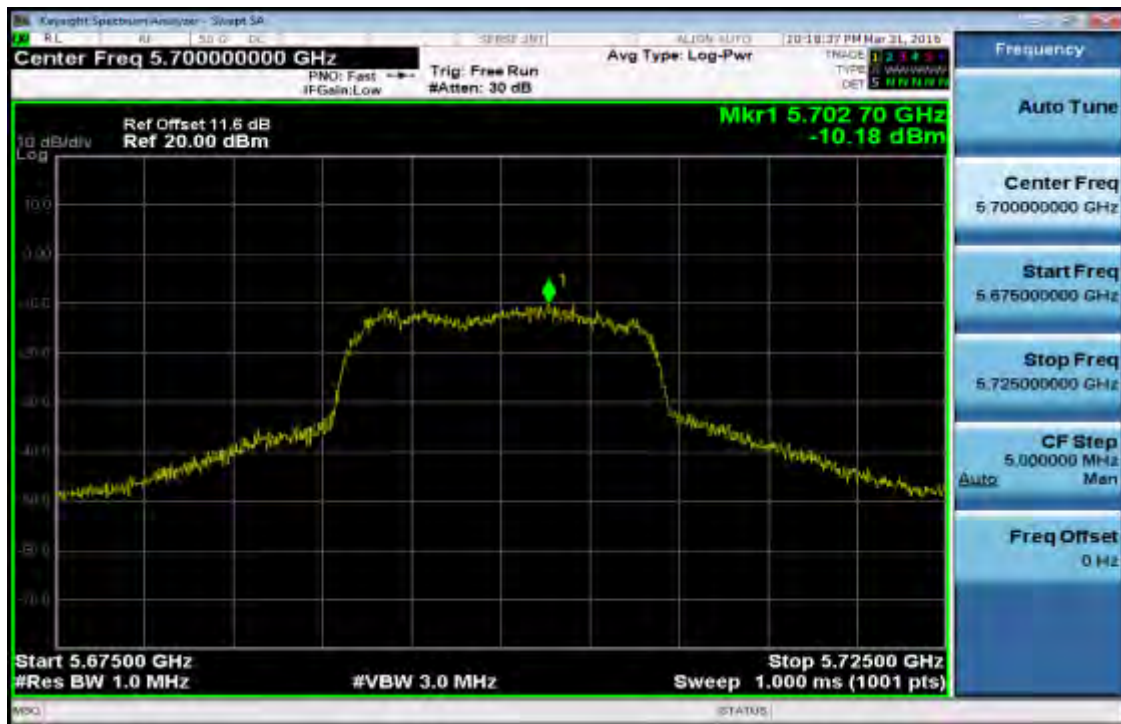
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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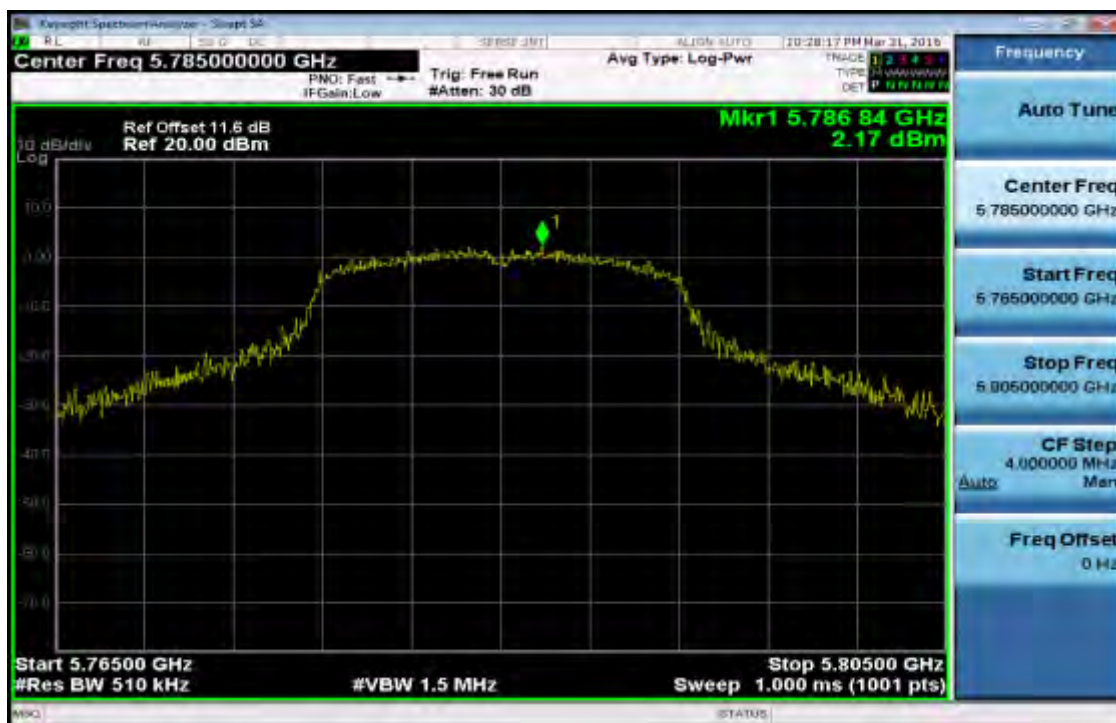
Member of SGS Group

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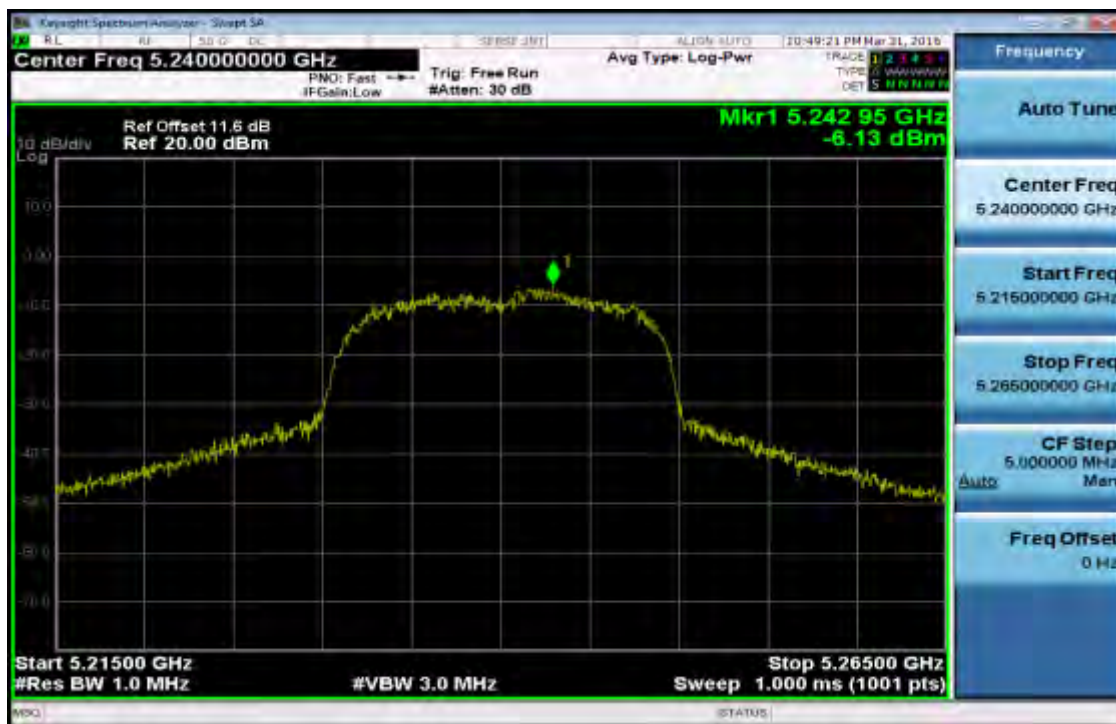
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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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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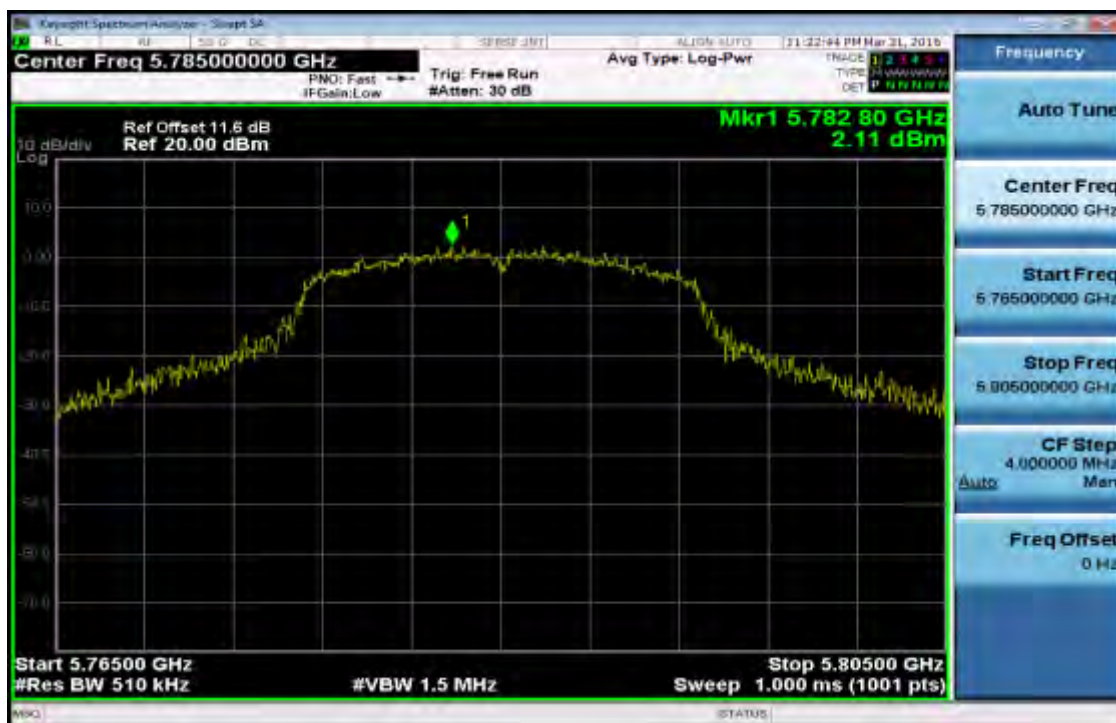
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Member of SGS Group

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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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)	RSS-247 §6.2.1 (2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)	RSS-247 §6.2.2 (2)		
15.407(b)(3)	RSS-247 §6.2.3 (2)		
15.407(b)(4)	RSS-247 §6.2.4 (4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)

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

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

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

Note:

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

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11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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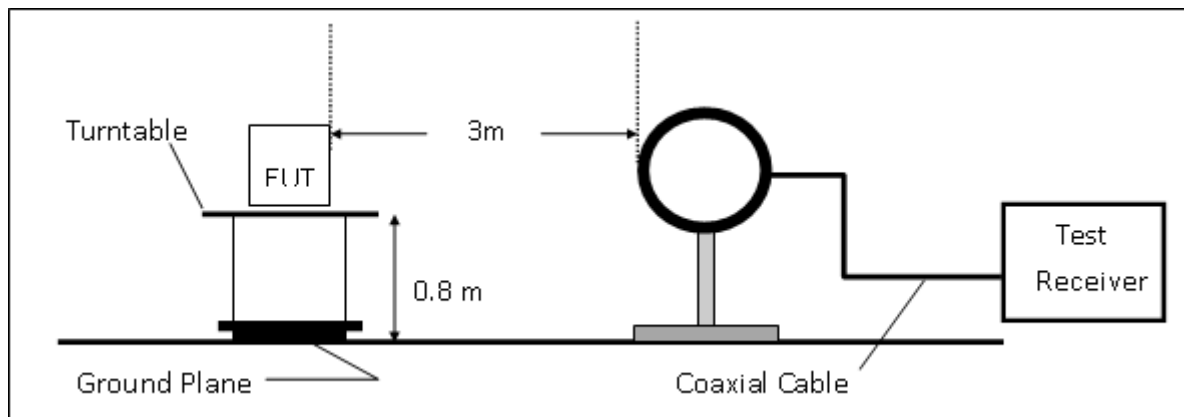
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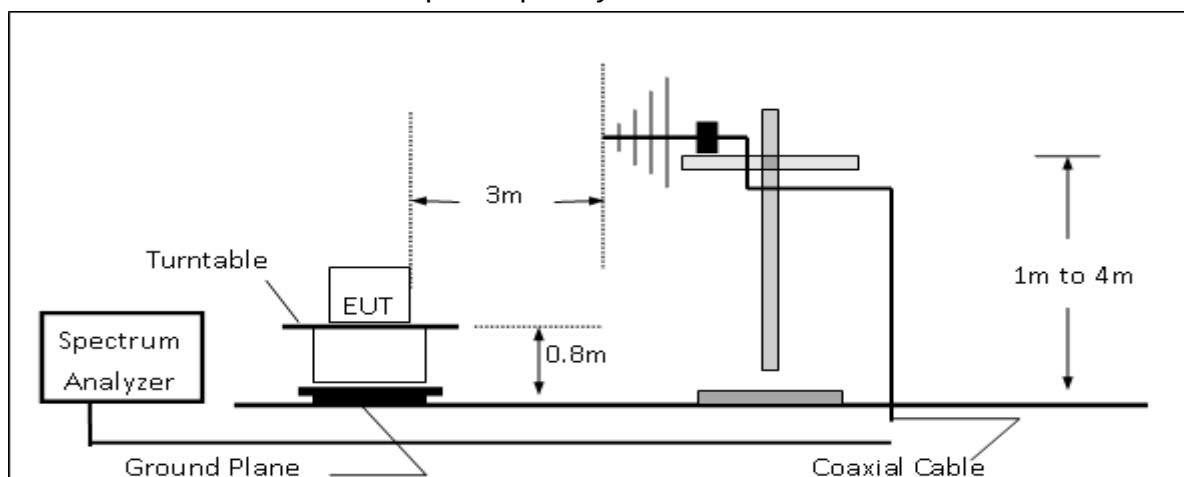
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11.3 Test SET-UP

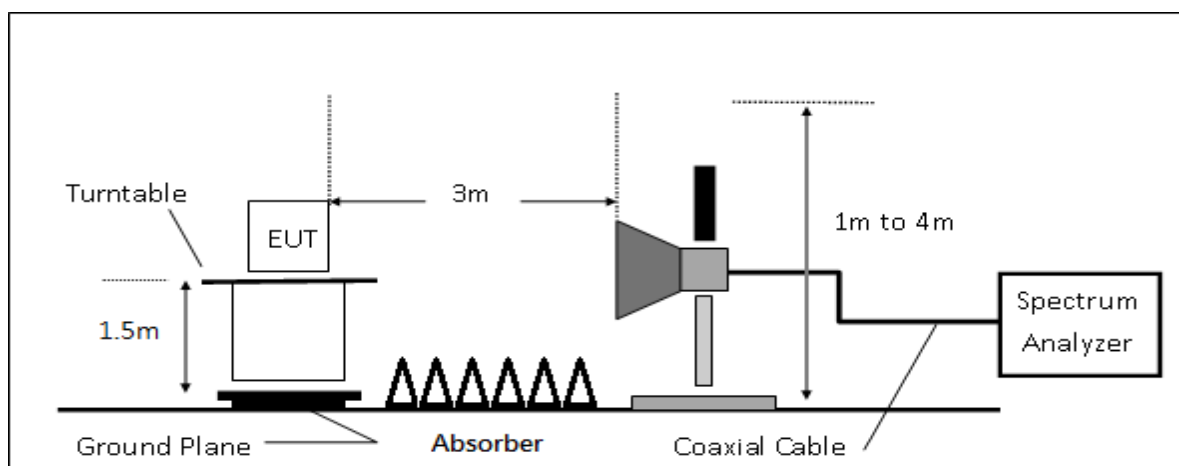
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

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

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

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

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

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Note :

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

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

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

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

11.7 Measurement Result

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

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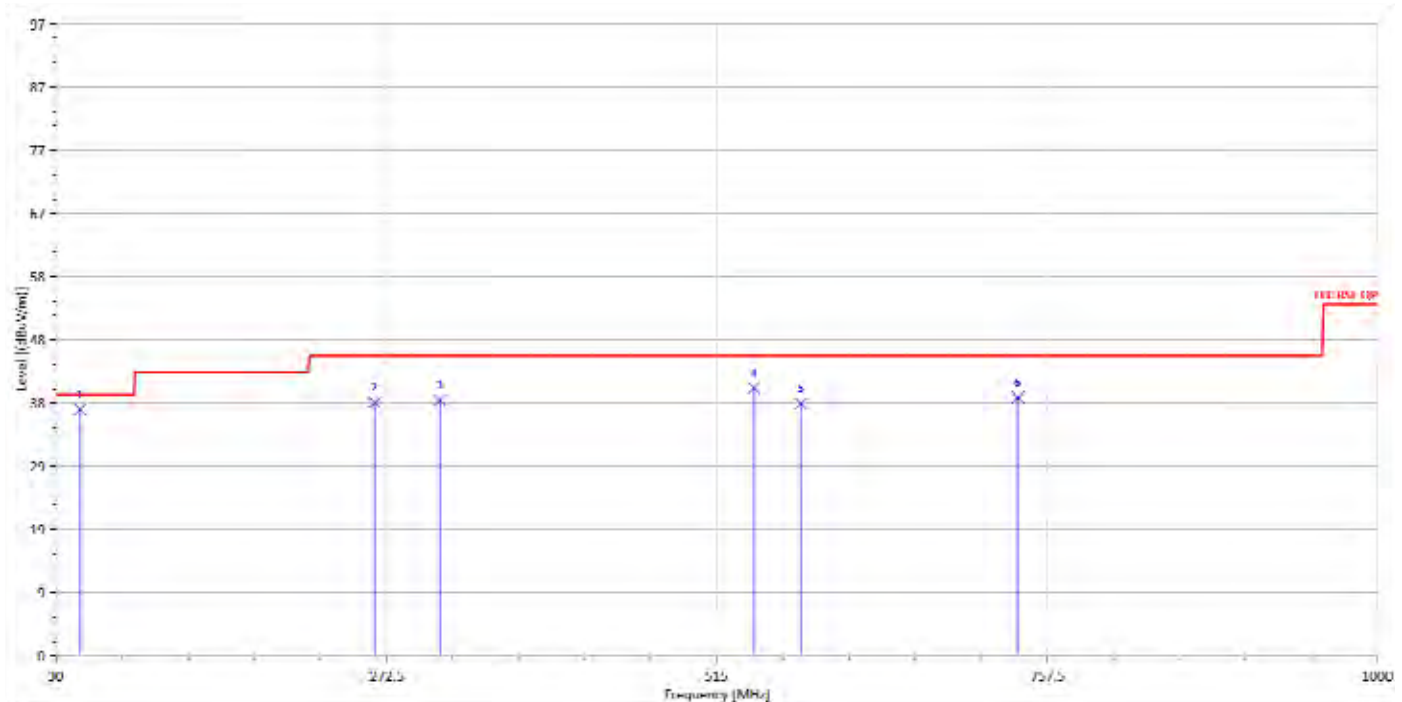
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2016/4/7
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
48.06	S	QP	56.10	-18.26	37.84	40	-2.16
263.77	S	Peak	52.69	-13.80	38.89	46	-7.11
312.27	S	Peak	51.78	-12.52	39.26	46	-6.74
542.16	S	Peak	48.16	-7.13	41.03	46	-4.97
577.08	S	Peak	45.02	-6.30	38.72	46	-7.28
736.16	S	Peak	44.08	-4.44	39.64	46	-6.36

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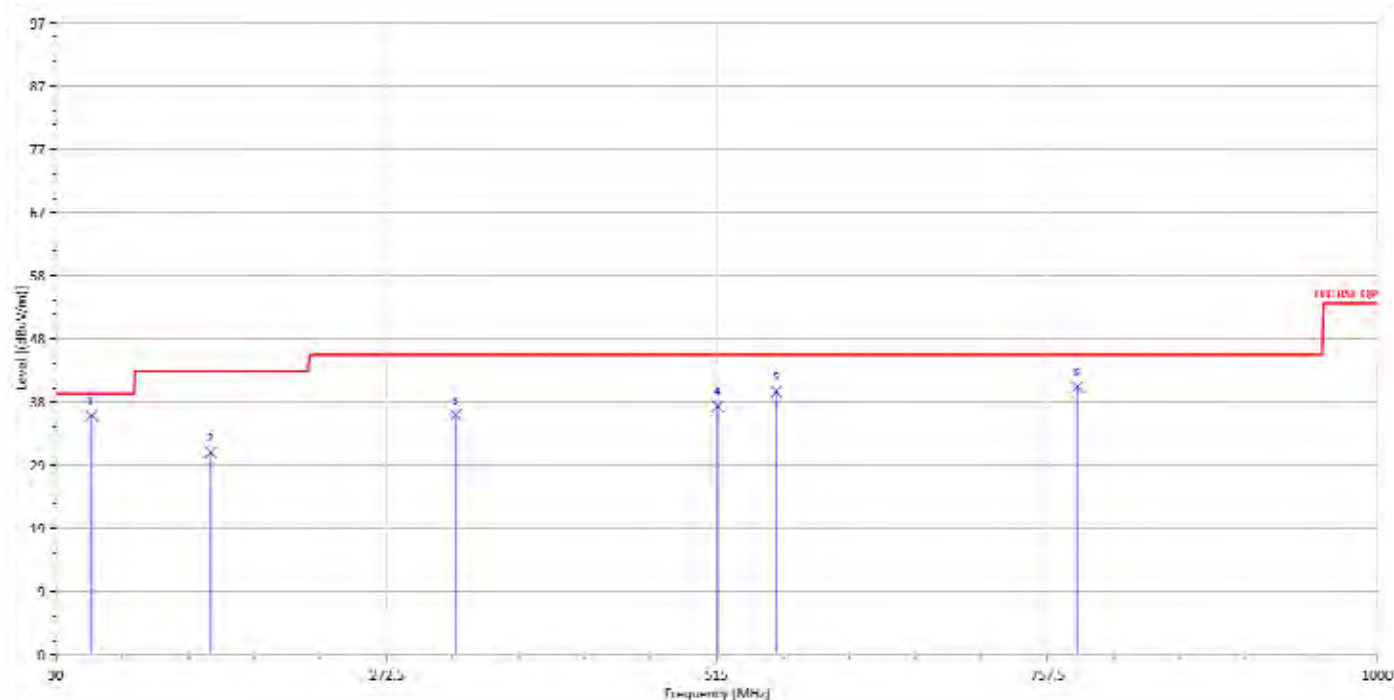
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Operation Mode : 802.11a Test Date : 2016/4/7
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	S	QP	58.32	-21.59	36.73	40	-3.27
143.49	S	Peak	47.35	-16.32	31.03	43.5	-12.47
323.91	S	Peak	48.70	-11.87	36.83	46	-9.17
515.97	S	Peak	45.86	-7.67	38.19	46	-7.81
558.65	S	Peak	47.15	-6.78	40.37	46	-5.63
779.81	S	Peak	45.42	-4.40	41.03	46	-4.97

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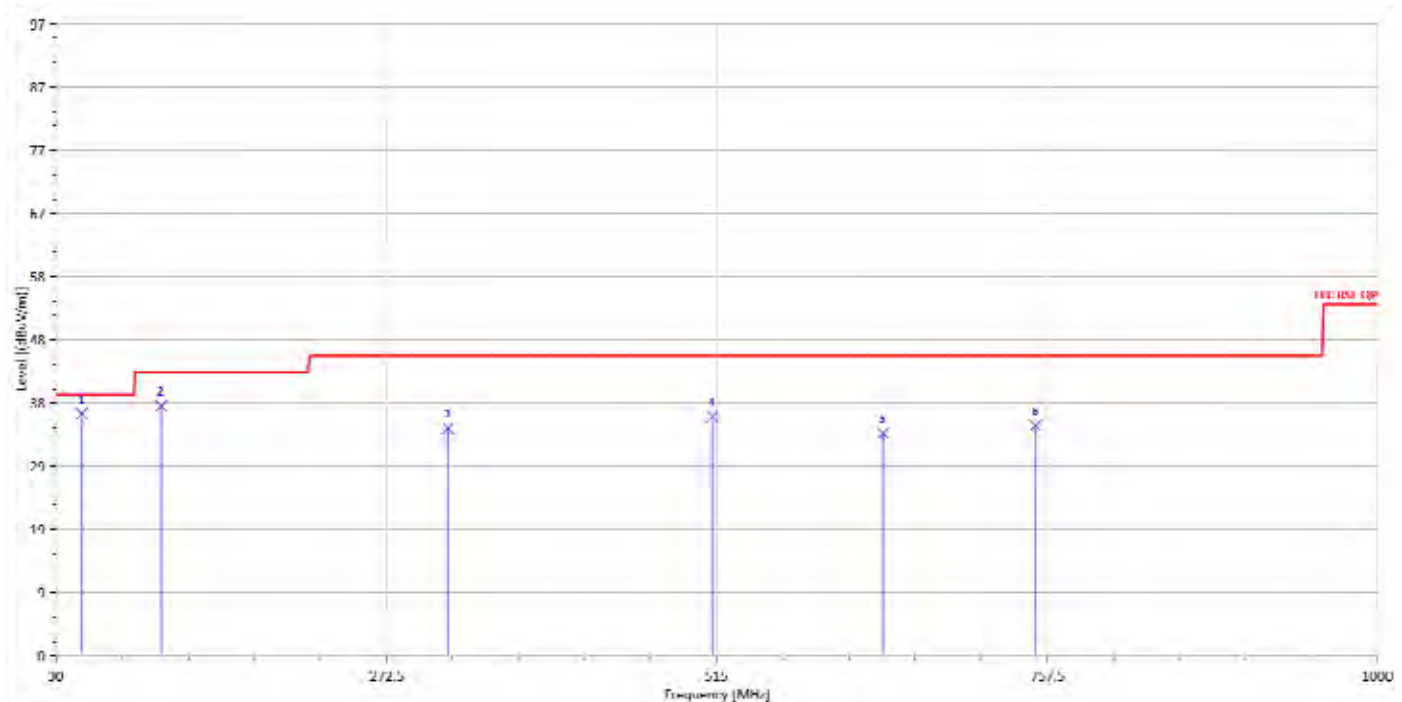
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2016/4/7
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.40	S	QP	56.22	-19.04	37.18	40	-2.82
107.60	S	Peak	55.13	-16.77	38.36	43.5	-5.14
318.09	S	Peak	47.20	-12.30	34.90	46	-11.10
512.09	S	Peak	44.25	-7.51	36.75	46	-9.25
637.22	S	Peak	39.23	-5.08	34.15	46	-11.85
748.77	S	Peak	39.38	-4.02	35.36	46	-10.64

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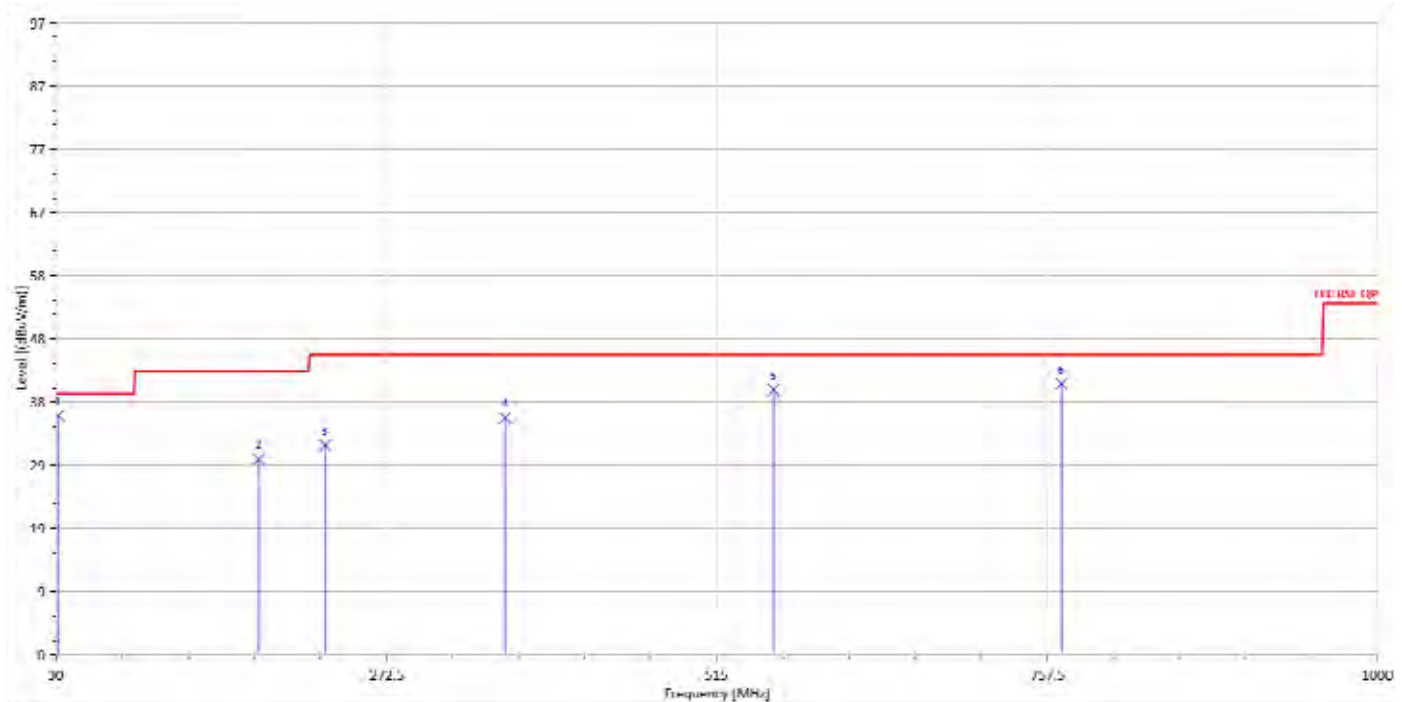
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Operation Mode : 802.11a Test Date : 2016/4/7
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	44.96	-8.22	36.74	40	-3.26
179.38	S	Peak	48.66	-18.71	29.96	43.5	-13.54
227.88	S	Peak	48.61	-16.47	32.14	46	-13.86
359.80	S	Peak	47.59	-11.20	36.39	46	-9.61
556.71	S	Peak	47.57	-6.96	40.61	46	-5.39
768.17	S	Peak	45.73	-4.23	41.50	46	-4.50

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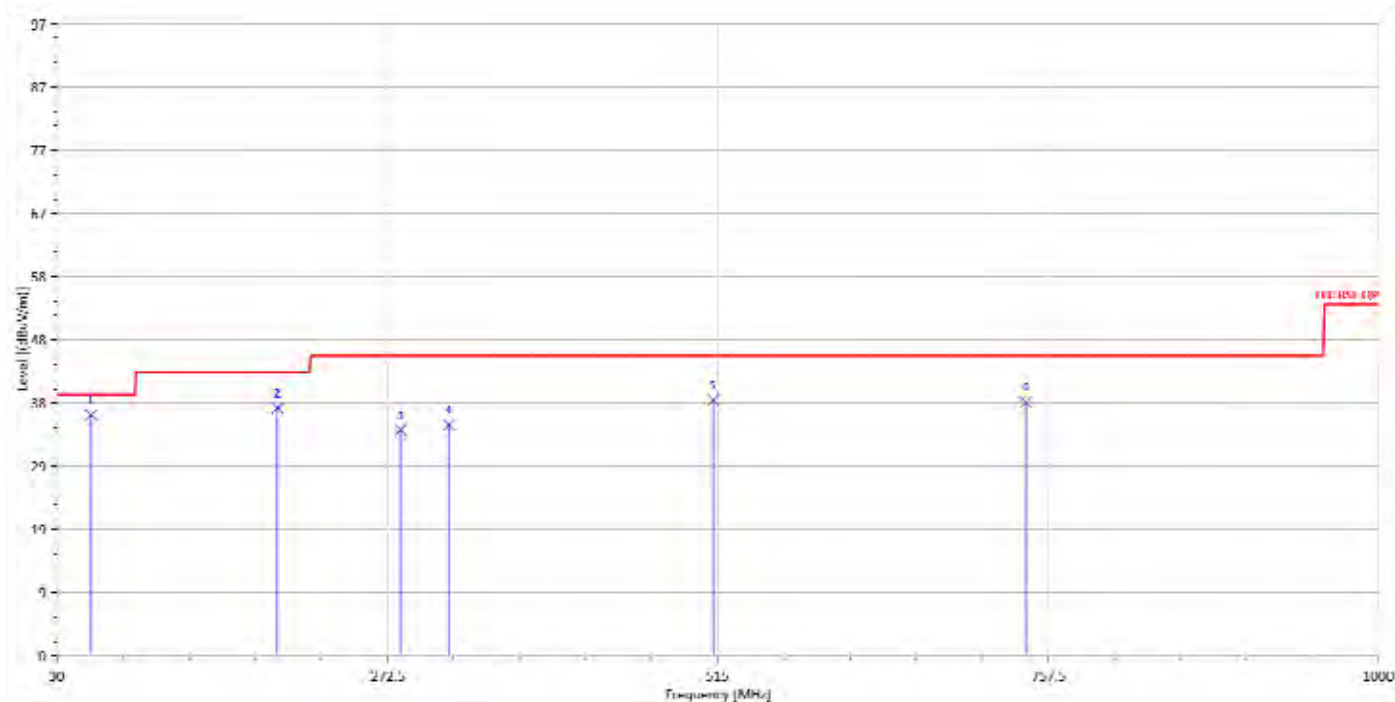
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/4/7
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.25	S	QP	58.24	-21.26	36.98	40	-3.02
191.99	S	Peak	56.17	-18.13	38.05	43.5	-5.45
282.20	S	Peak	48.20	-13.53	34.68	46	-11.32
318.09	S	Peak	47.75	-12.30	35.44	46	-10.56
512.09	S	Peak	46.80	-7.51	39.29	46	-6.71
741.01	S	Peak	43.20	-4.25	38.95	46	-7.05

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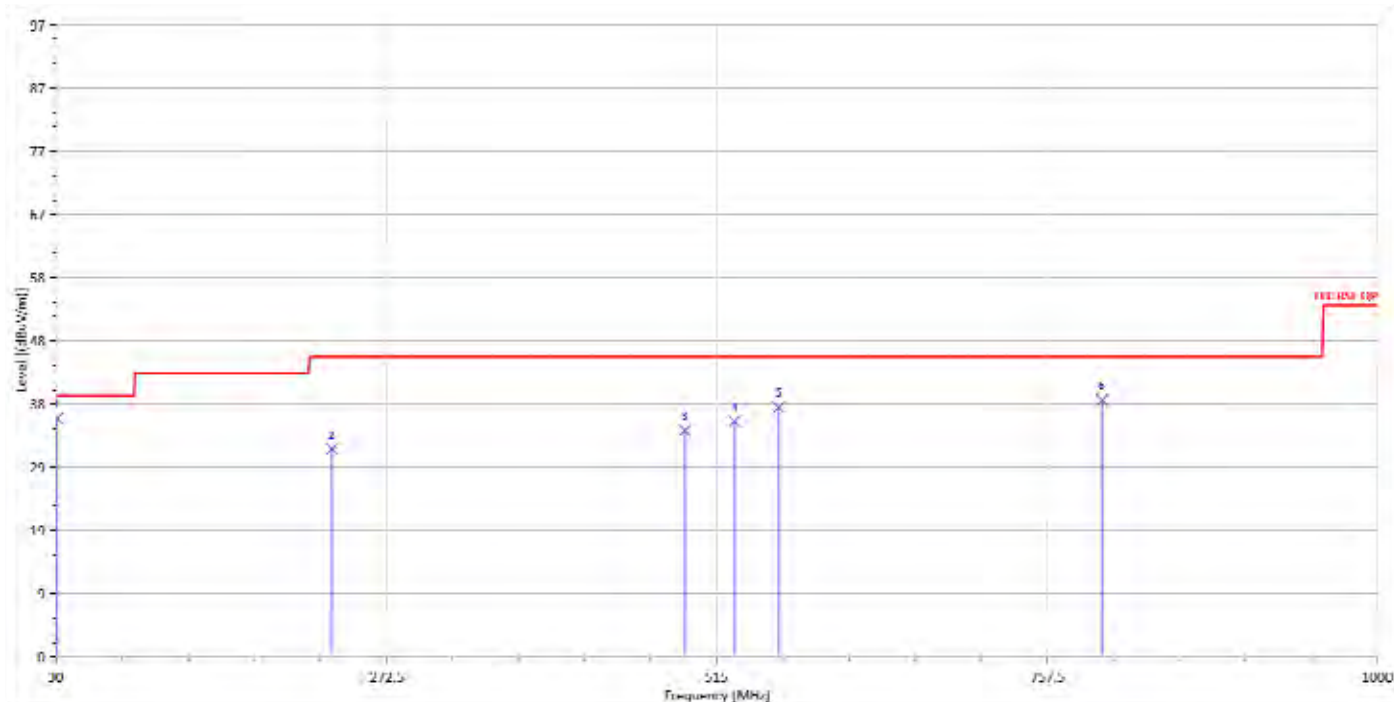
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Operation Mode : 802.11a Test Date : 2016/4/7
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	44.34	-7.70	36.63	40	-3.37
232.73	S	Peak	47.83	-15.99	31.84	46	-14.16
491.72	S	Peak	42.48	-7.76	34.72	46	-11.28
528.58	S	Peak	43.59	-7.42	36.17	46	-9.83
560.59	S	Peak	44.92	-6.64	38.28	46	-7.72
798.24	S	Peak	43.34	-3.91	39.43	46	-6.57

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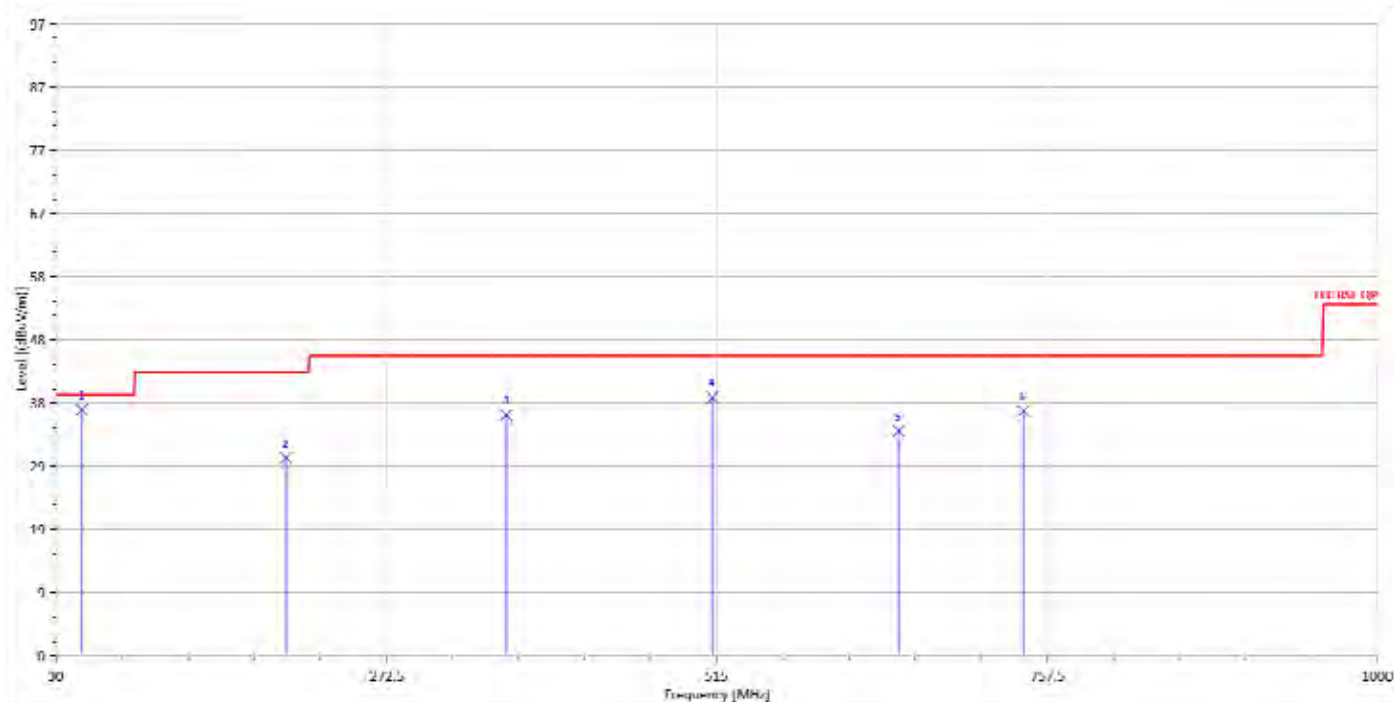
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/4/7
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
49.40	S	QP	56.82	-19.04	37.78	40	-2.22
198.78	S	Peak	47.92	-17.58	30.33	43.5	-13.17
360.77	S	Peak	48.15	-11.17	36.98	46	-9.02
512.09	S	Peak	47.15	-7.51	39.65	46	-6.35
648.86	S	Peak	39.58	-5.07	34.52	46	-11.48
740.04	S	Peak	41.71	-4.09	37.62	46	-8.38

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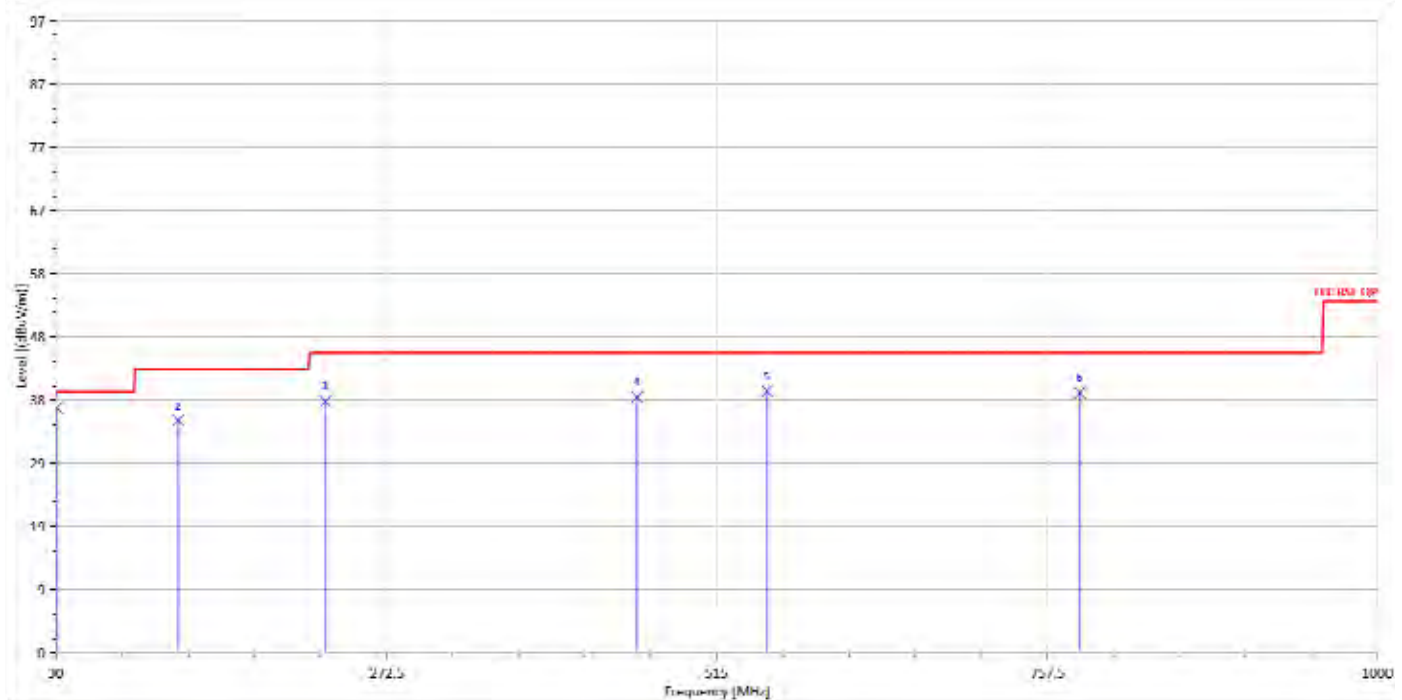
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Operation Mode : 802.11a Test Date : 2016/4/7
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	QP	45.35	-7.70	37.65	40	-2.35
120.21	S	Peak	51.55	-15.84	35.71	43.5	-7.79
227.88	S	Peak	55.08	-16.47	38.61	46	-7.39
456.80	S	Peak	47.53	-8.27	39.26	46	-6.74
551.86	S	Peak	46.82	-6.66	40.16	46	-5.84
781.75	S	Peak	44.27	-4.38	39.89	46	-6.11

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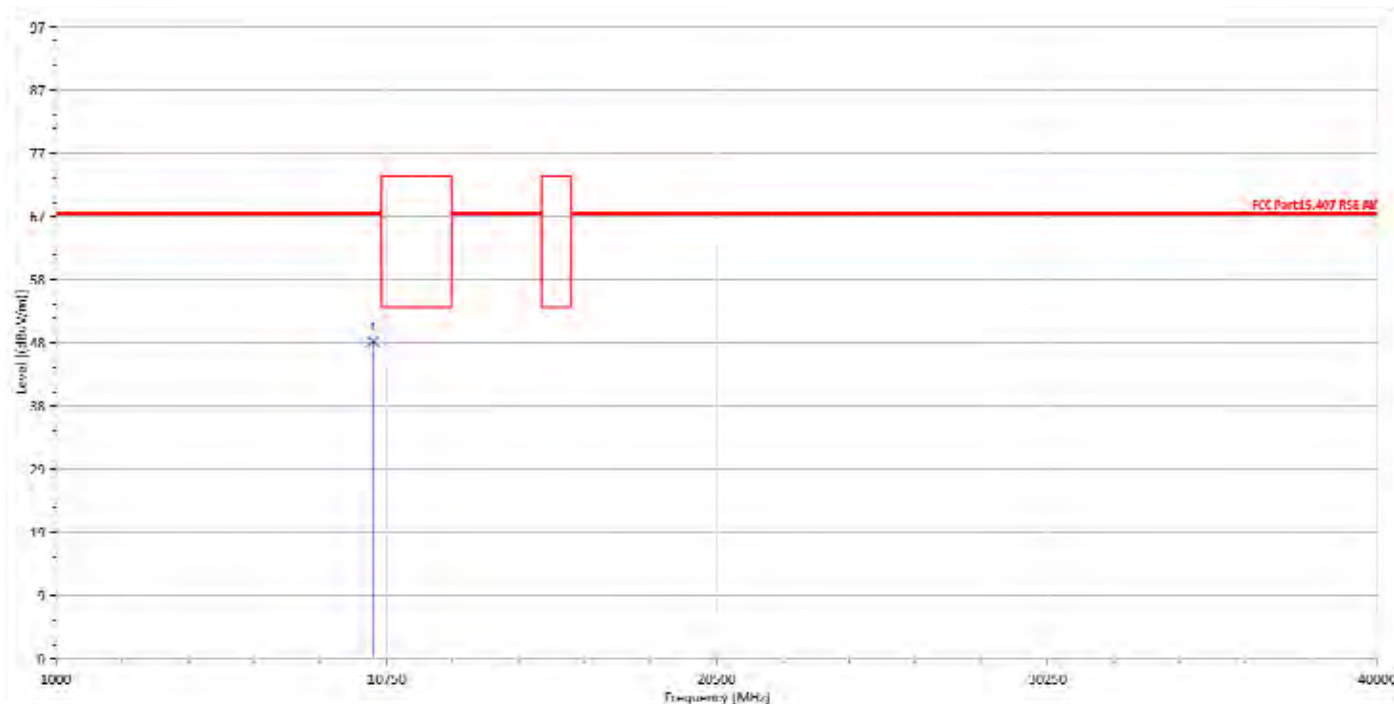
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	31.11	17.62	48.72	68.3	-19.58

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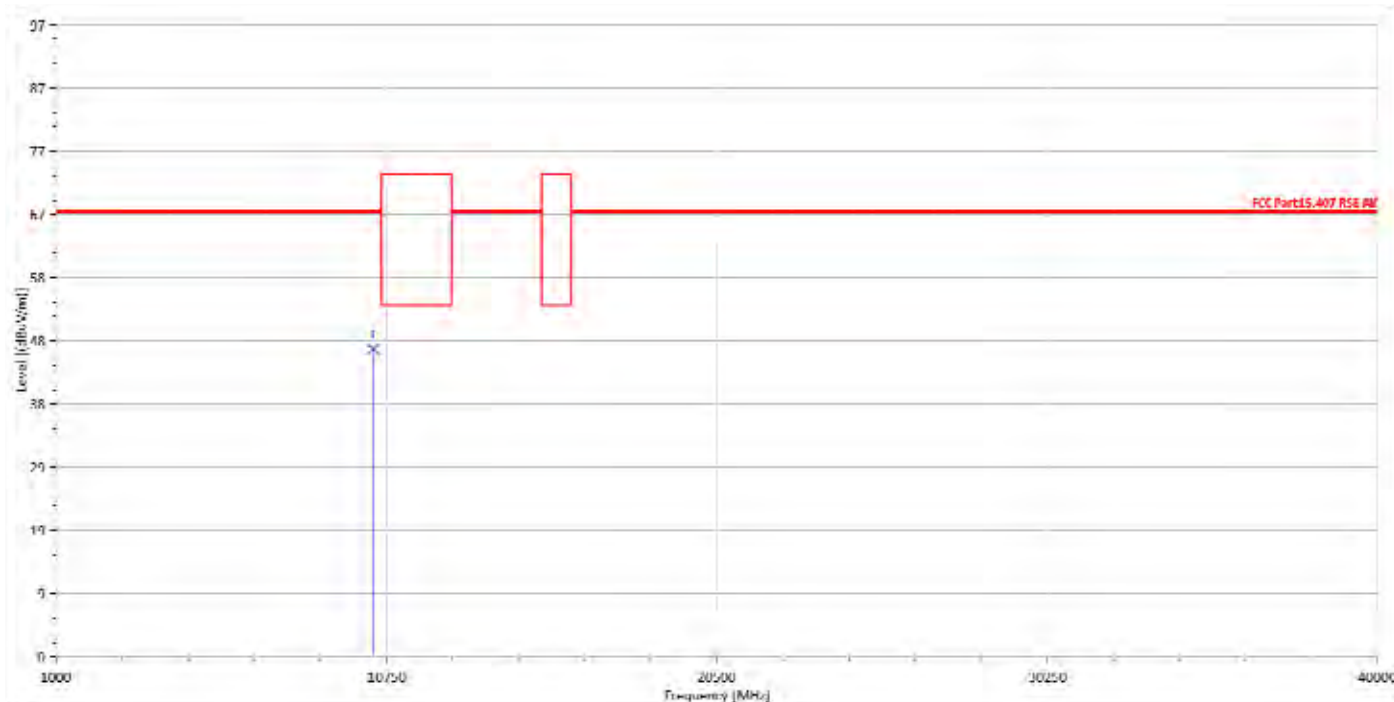
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Operation Mode : 802.11a Test Date : 2016/4/6
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	29.61	17.62	47.23	68.3	-21.07

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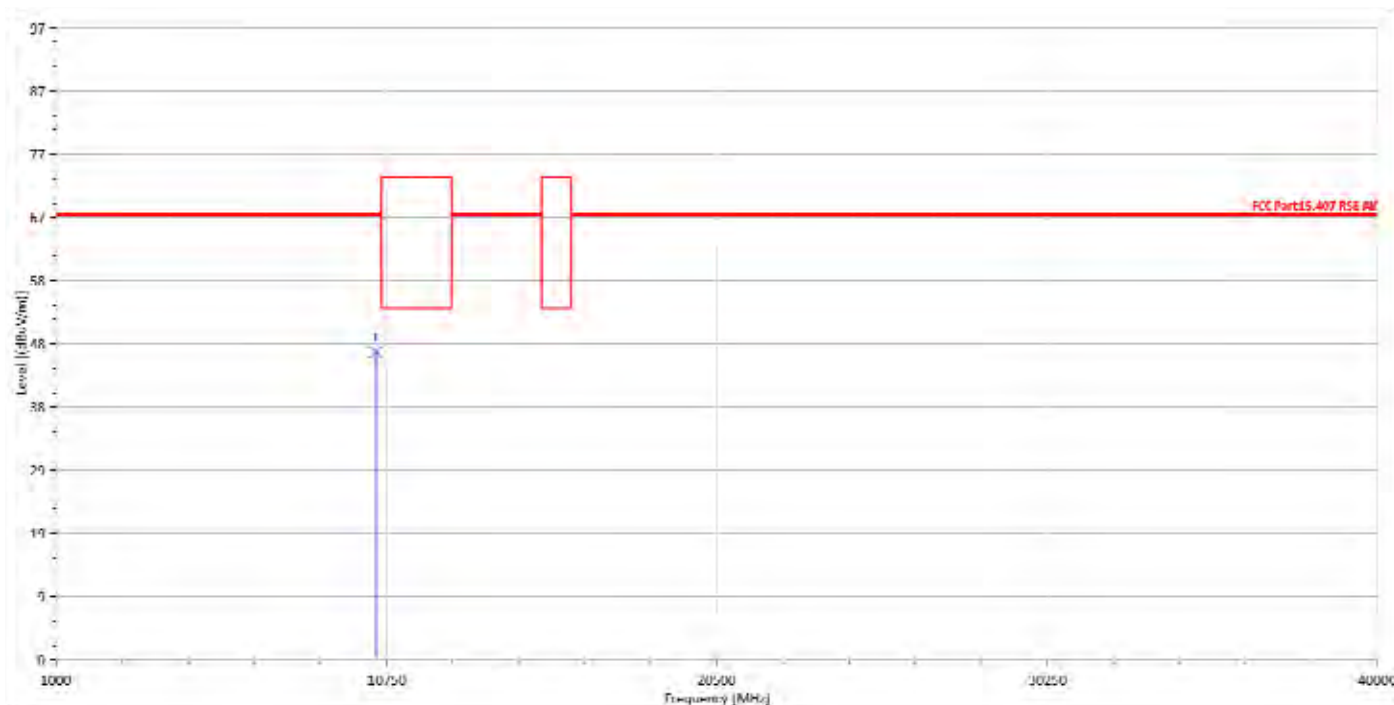
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	29.61	17.65	47.26	68.3	-21.04

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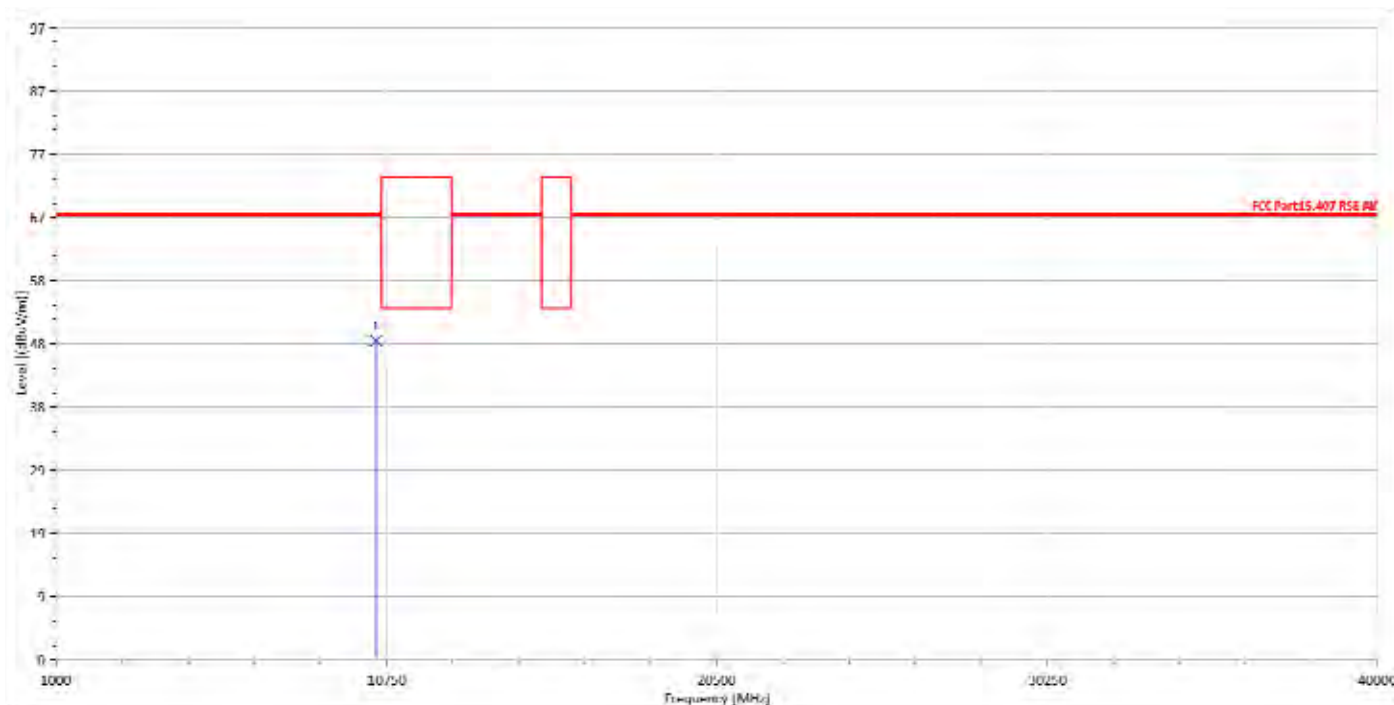
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	31.34	17.65	48.99	68.3	-19.31

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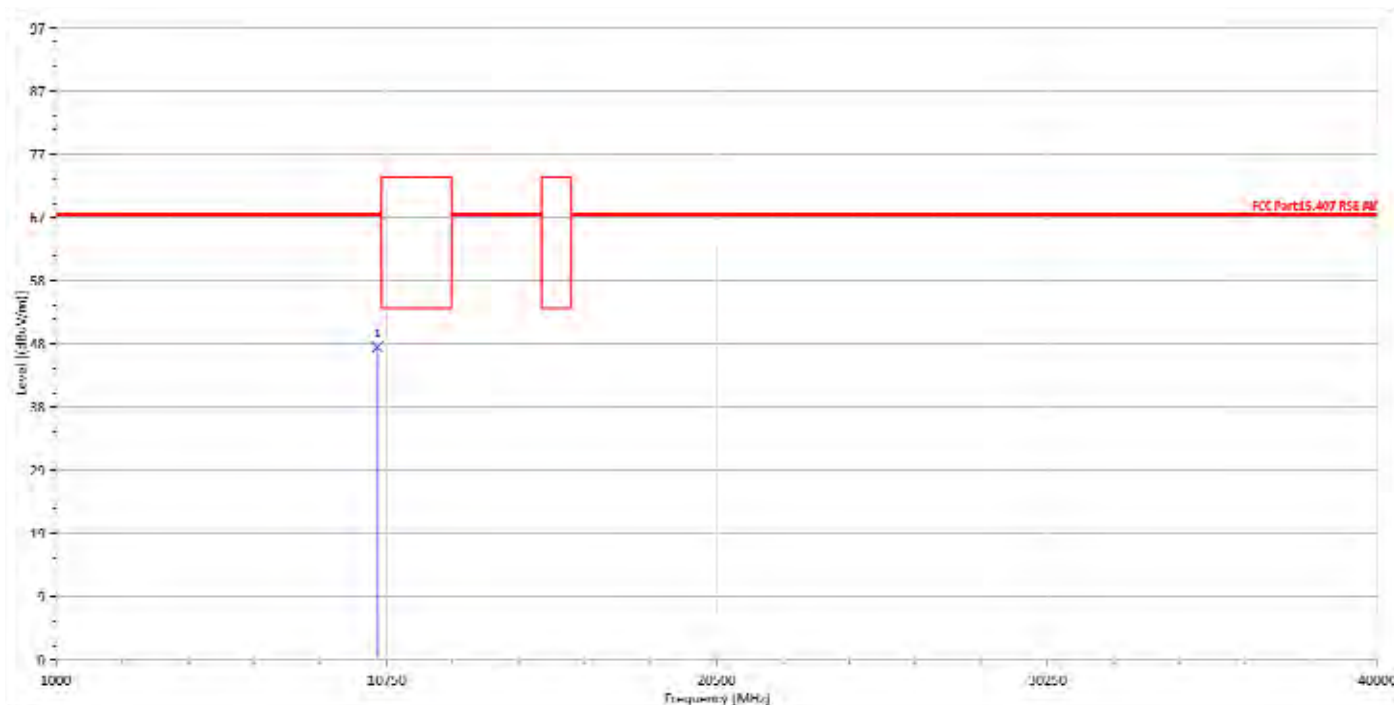
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	29.98	18.00	47.98	68.3	-20.32

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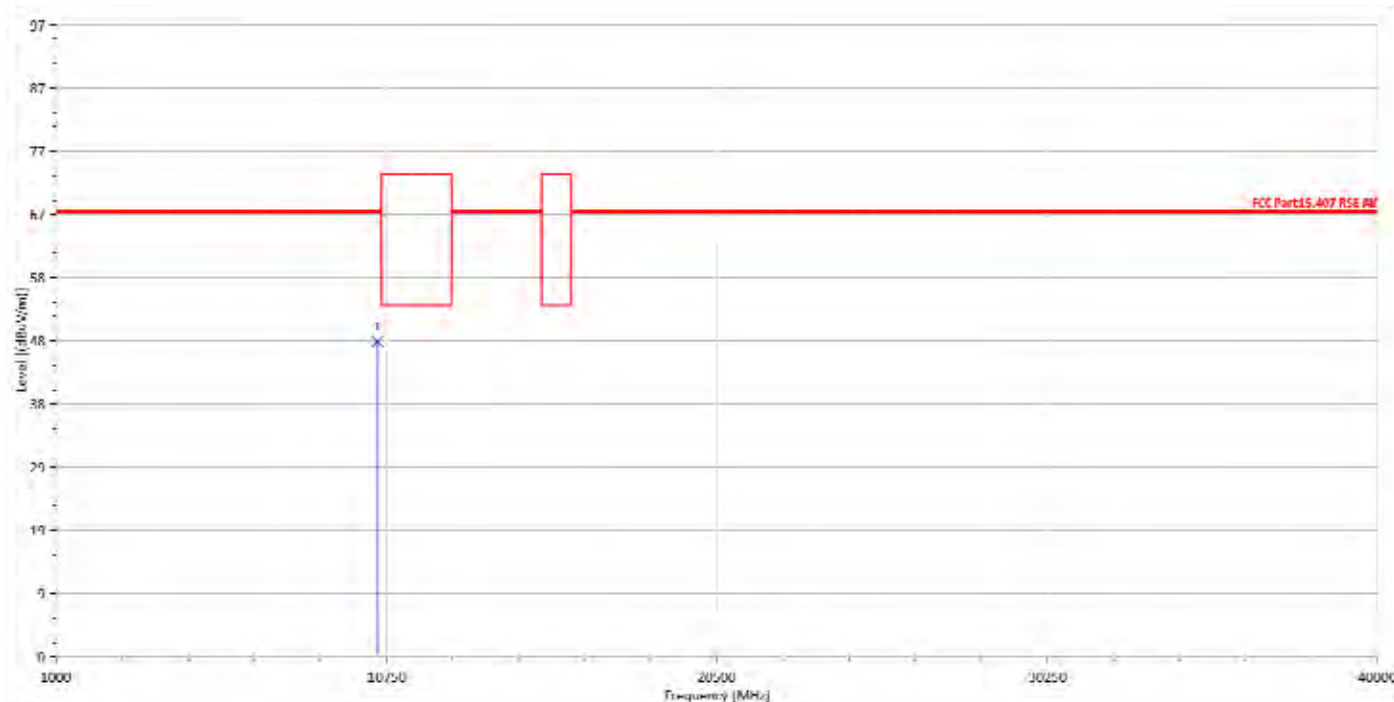
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	30.37	18.00	48.37	68.3	-19.93

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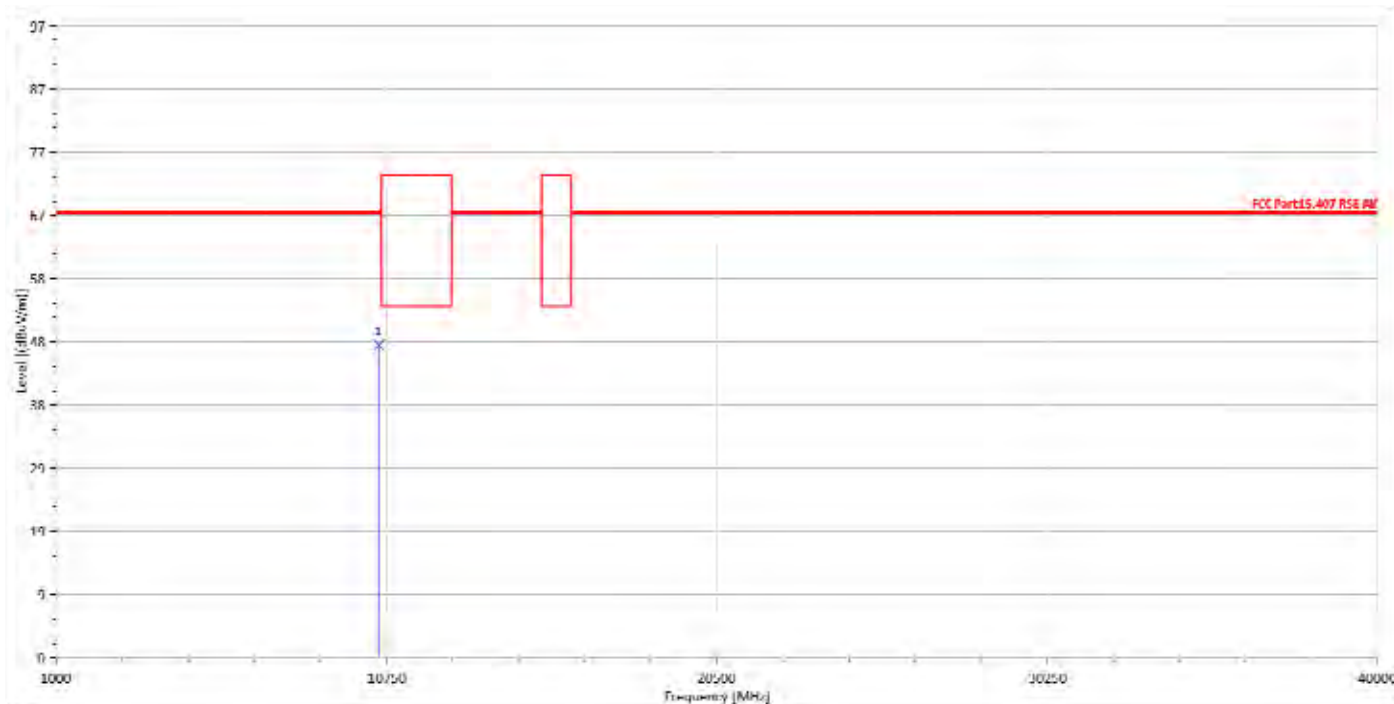
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	30.59	17.39	47.98	68.3	-20.32

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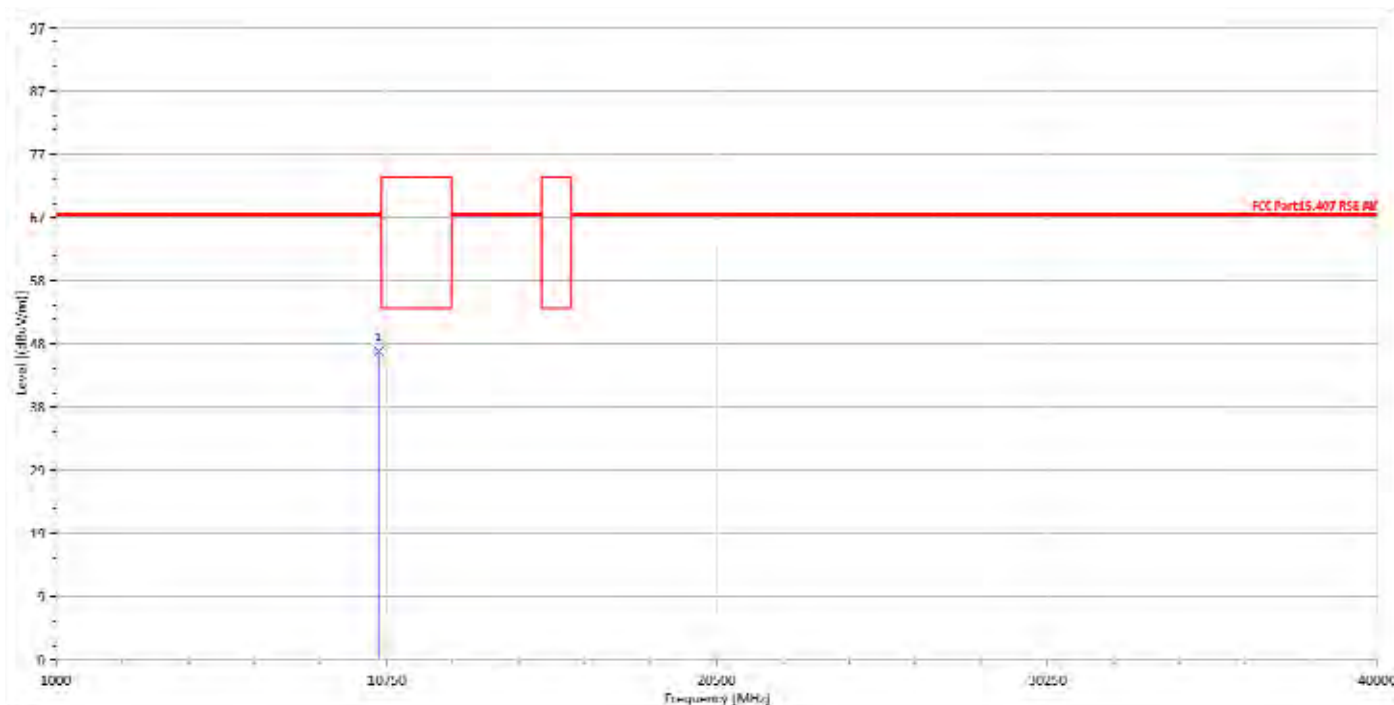
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Operation Mode :	802.11 a	Test Date :	2016/4/6
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	29.94	17.39	47.33	68.3	-20.97

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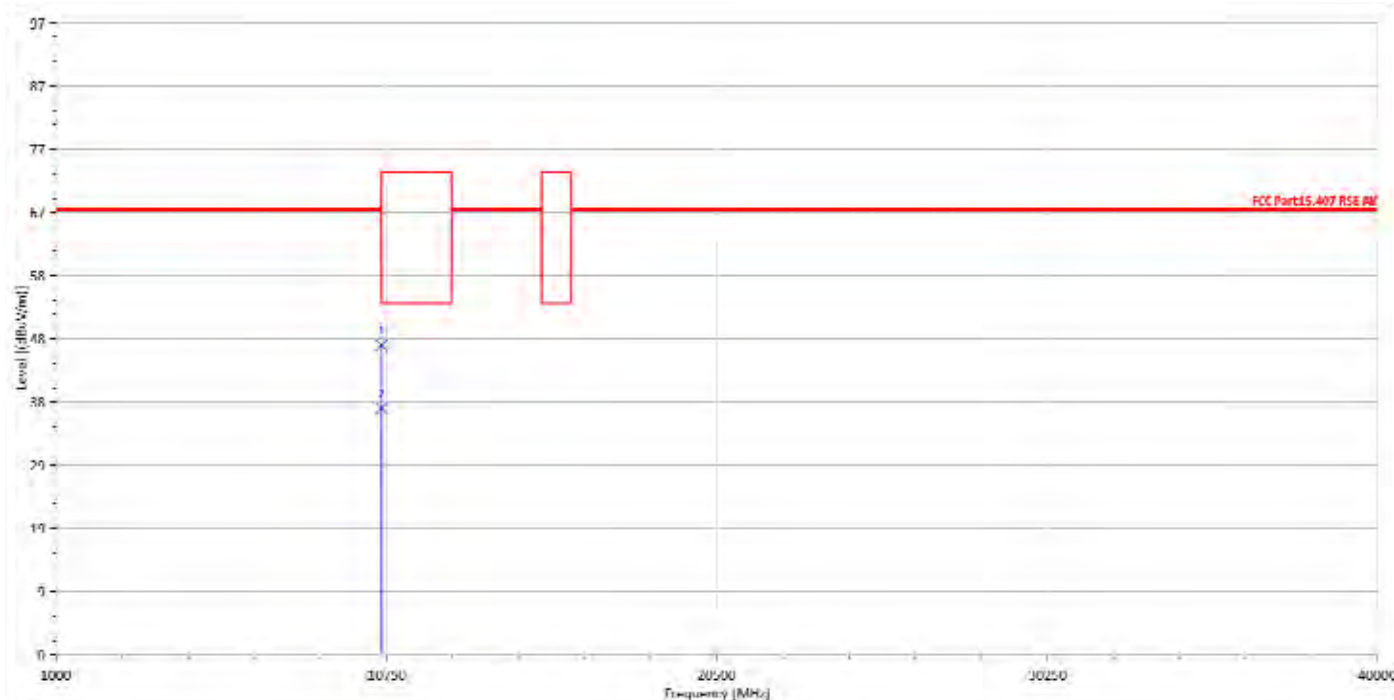
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Operation Mode : 802.11a Test Date : 2016/4/6
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.11	17.41	47.51	74	-26.49
10600.00	H	Average	20.45	17.41	37.86	54	-16.14

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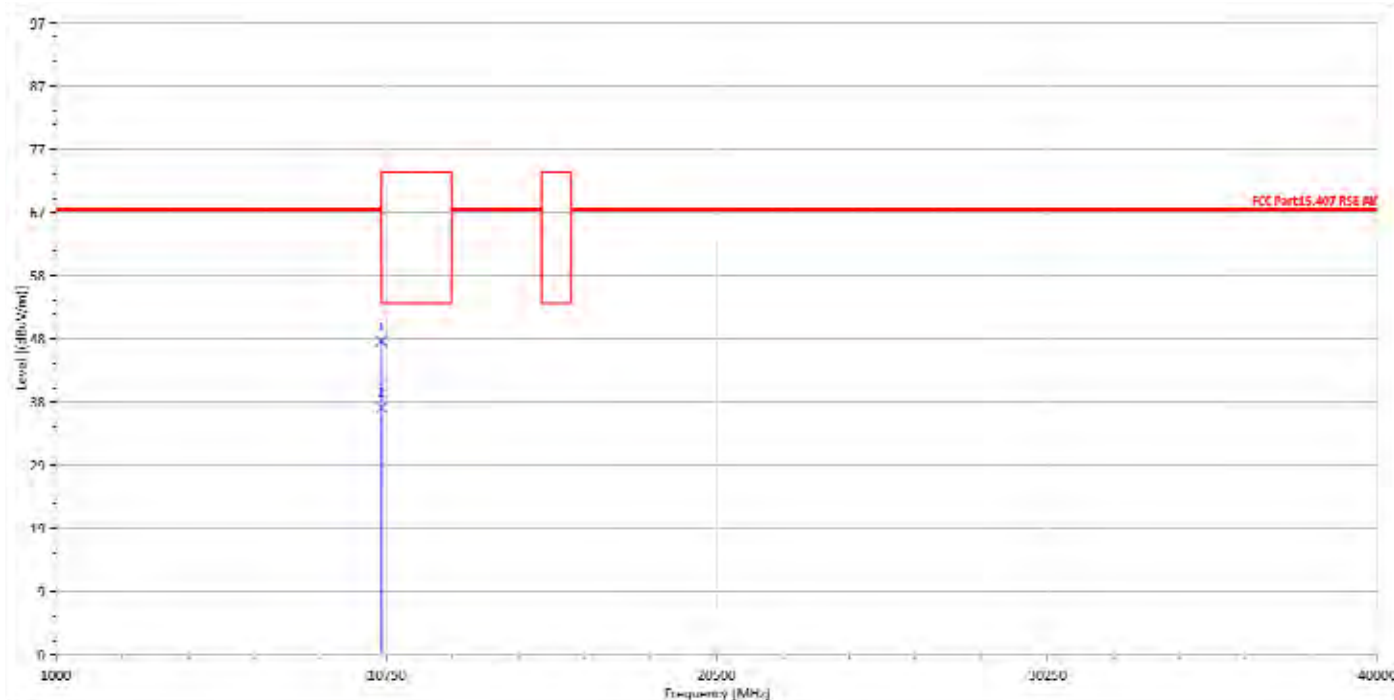
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10600.00	H	Peak	30.71	17.41	48.12	74	-25.88
10600.00	H	Average	20.59	17.41	38.00	54	-16.00

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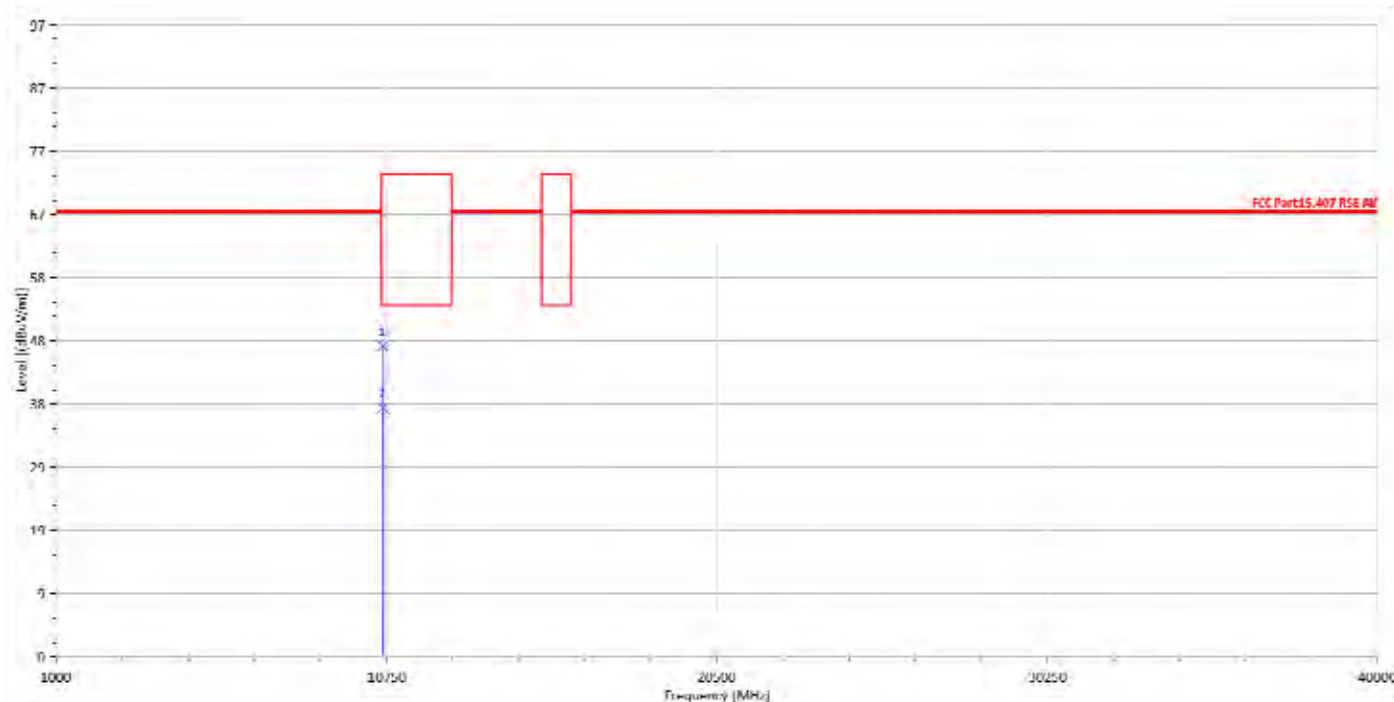
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10640.00	H	Peak	30.15	17.56	47.71	74	-26.29
10640.00	H	Average	20.64	17.56	38.20	54	-15.80

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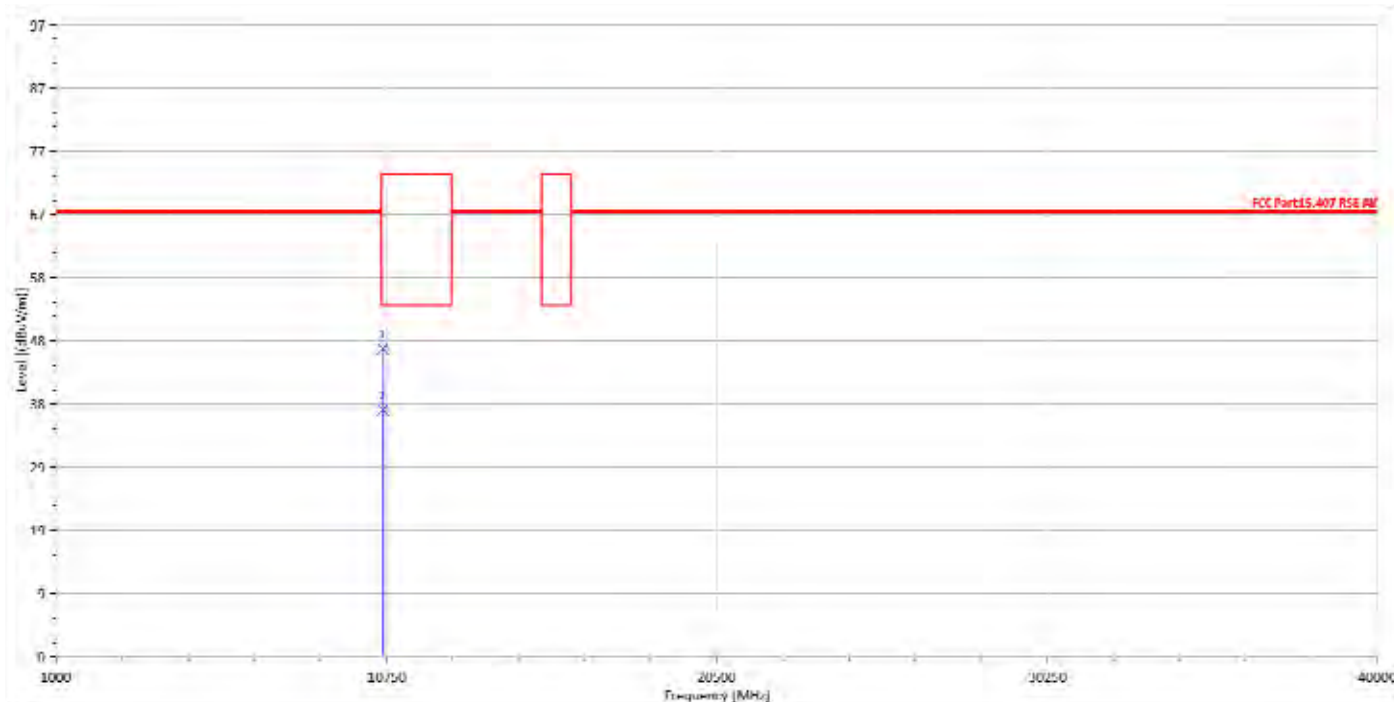
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10640.00	H	Peak	29.69	17.56	47.25	74	-26.75
10640.00	H	Average	20.35	17.56	37.91	54	-16.09

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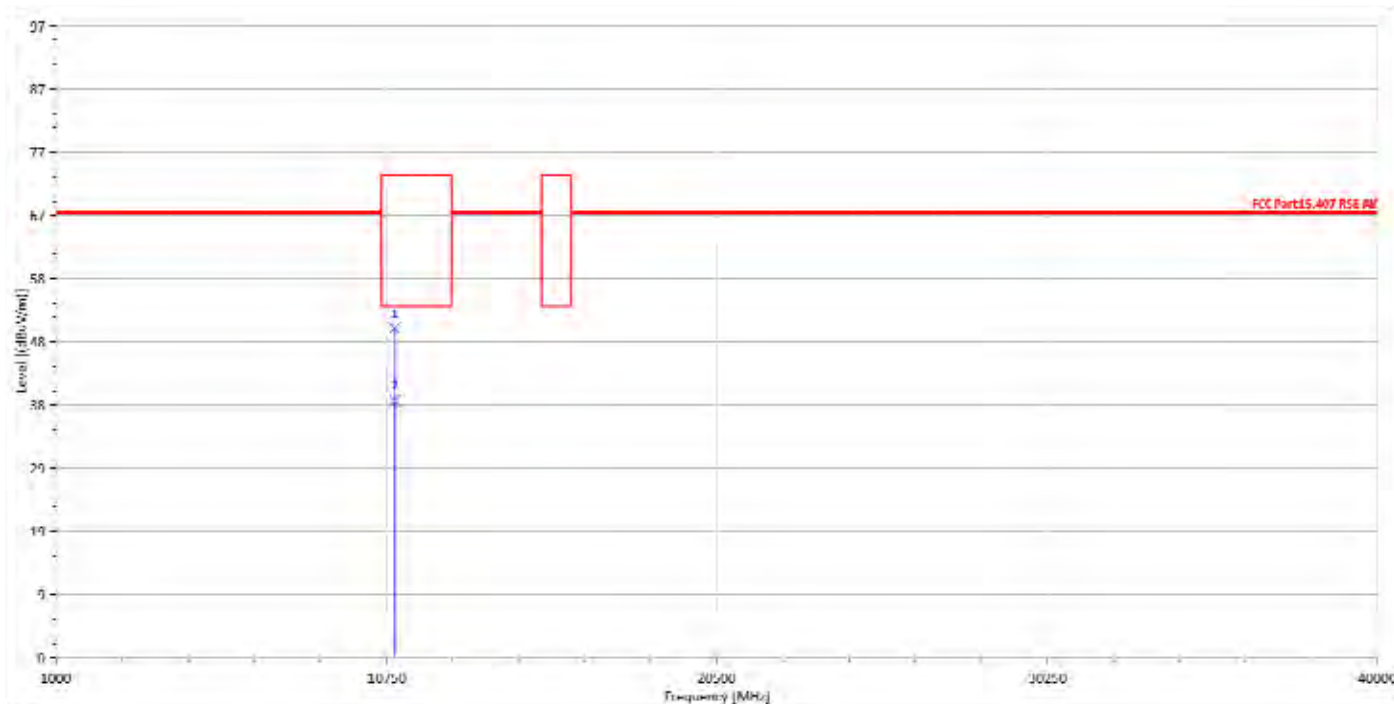
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	31.51	19.11	50.62	74	-23.38
11000.00	H	Average	20.34	19.11	39.45	54	-14.55

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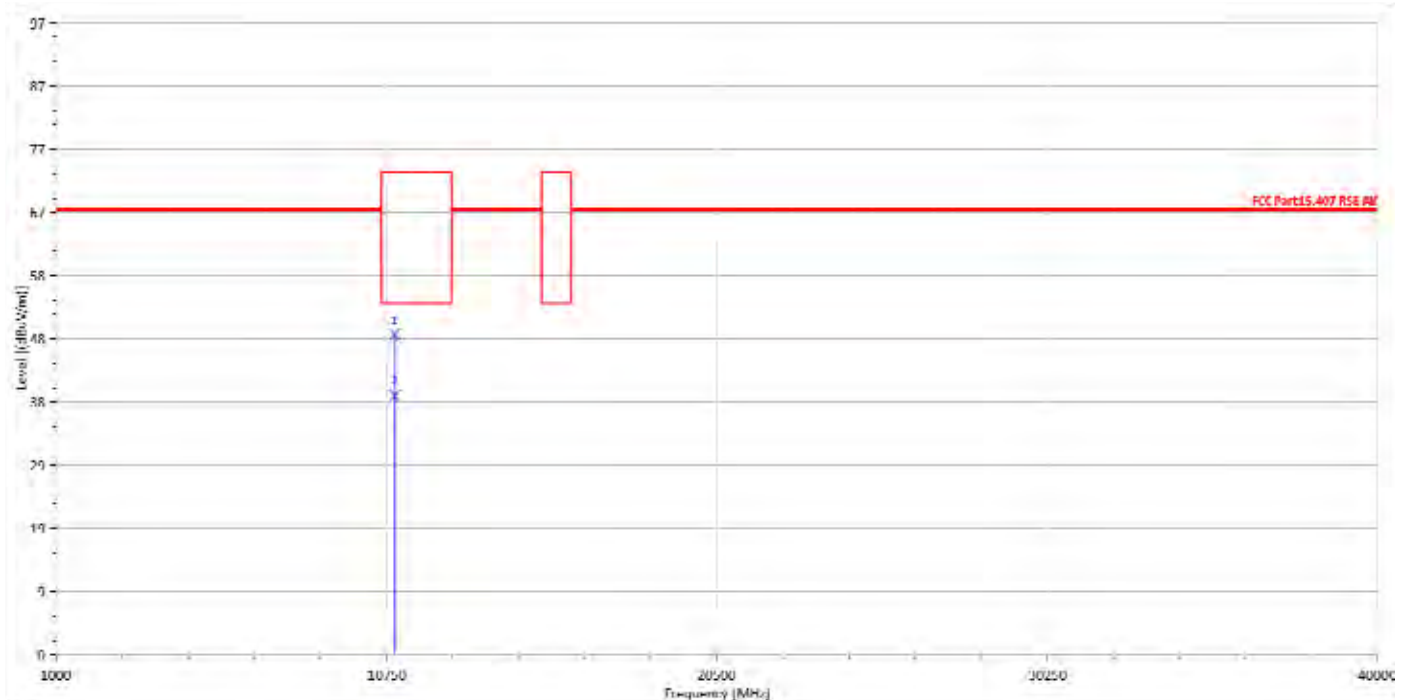
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Operation Mode : 802.11a Test Date : 2016/4/6
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	30.09	19.11	49.20	74	-24.80
11000.00	H	Average	20.68	19.11	39.79	54	-14.21

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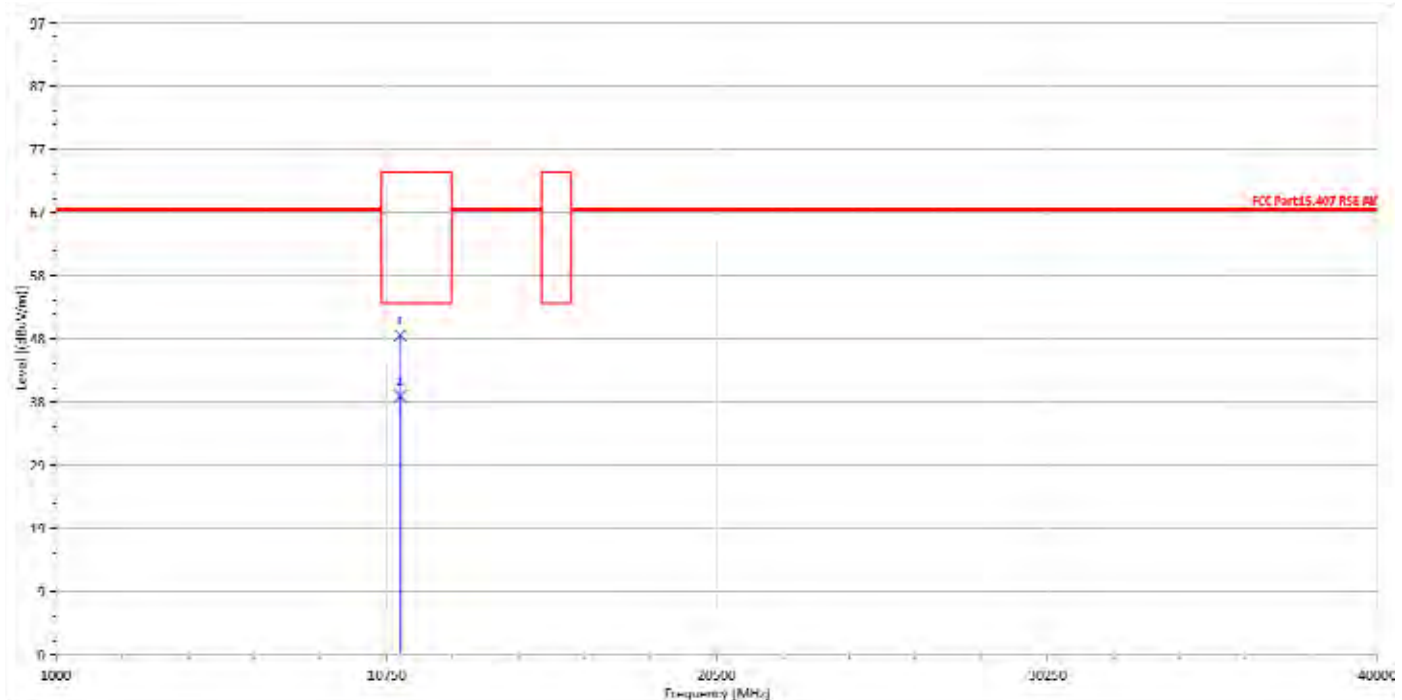
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Operation Mode : 802.11a Test Date : 2016/4/6
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	29.77	19.26	49.03	74	-24.97
11160.00	H	Average	20.42	19.26	39.68	54	-14.32

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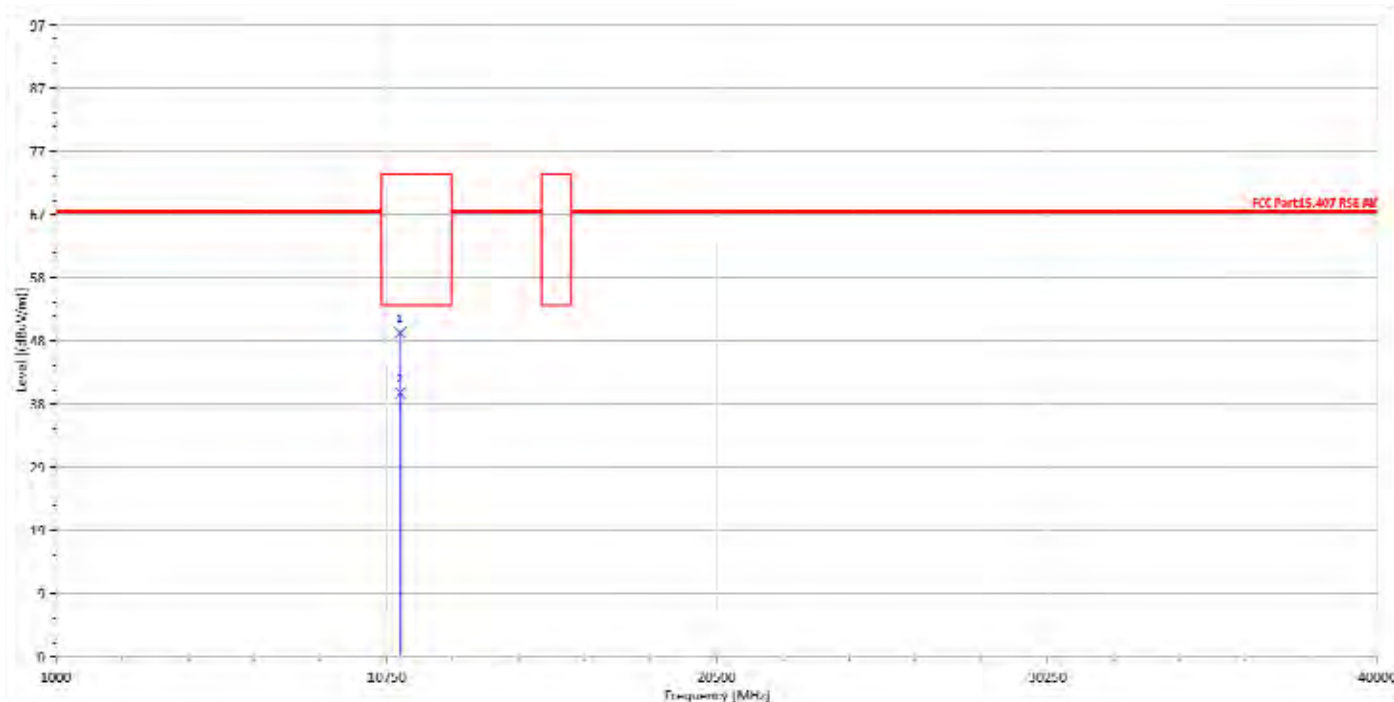
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.50	19.26	49.76	74	-24.24
11160.00	H	Average	21.20	19.26	40.46	54	-13.54

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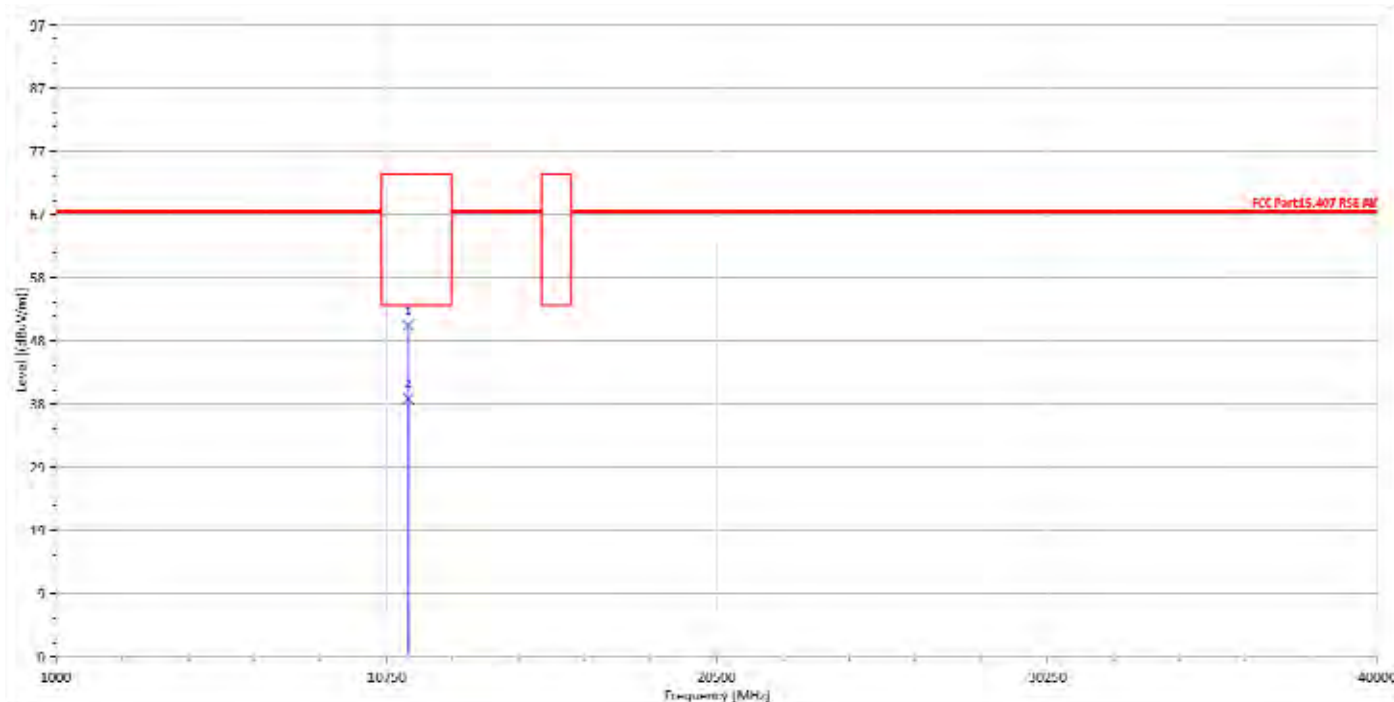
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11400.00	H	Peak	32.16	18.78	50.94	74	-23.06
11400.00	H	Average	20.83	18.78	39.61	54	-14.39

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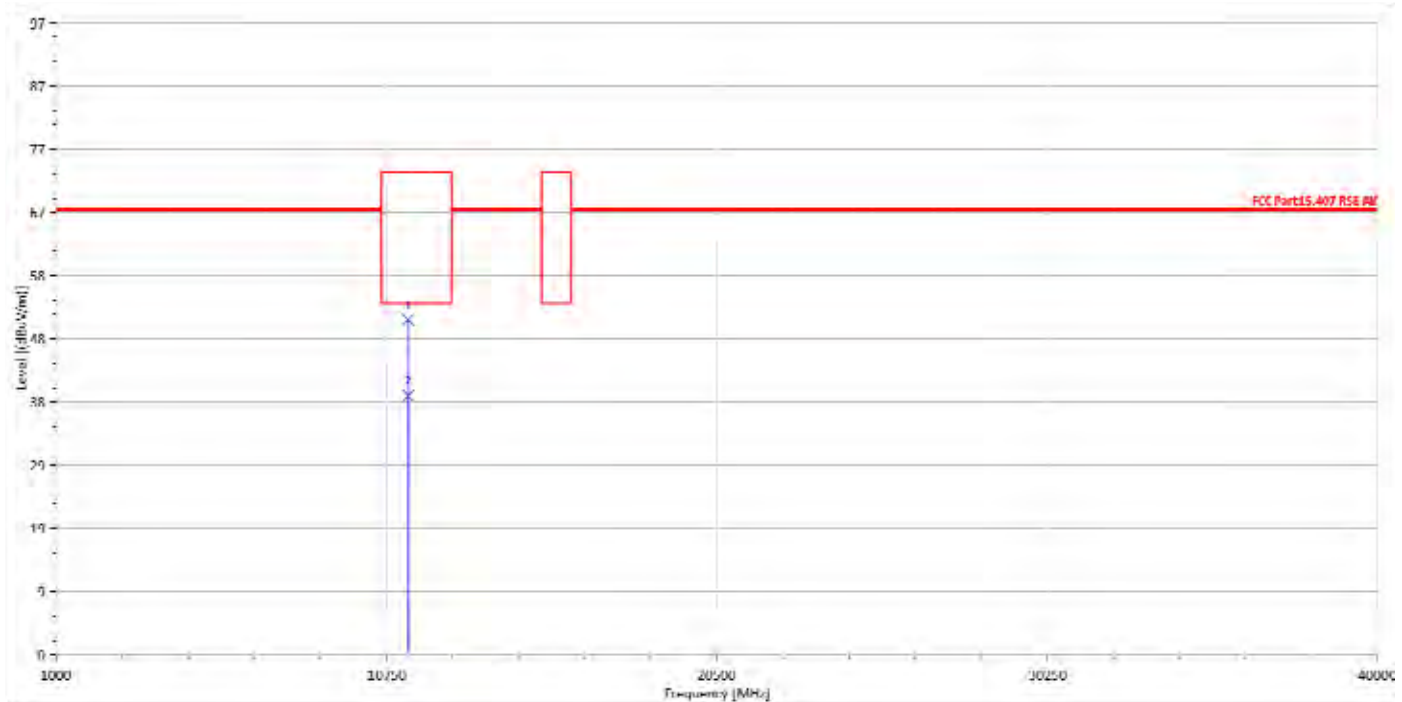
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11400.00	H	Peak	32.68	18.78	51.46	74	-22.54
11400.00	H	Average	20.99	18.78	39.77	54	-14.23

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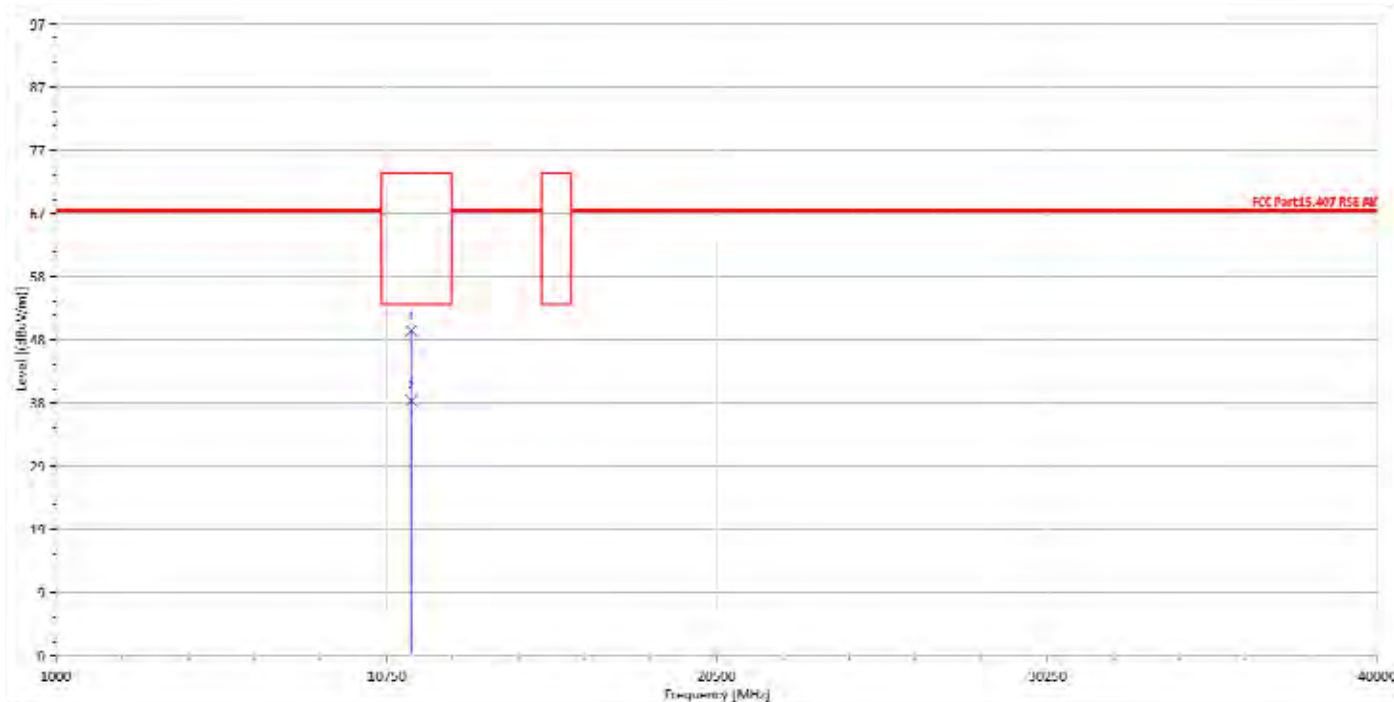
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.54	18.39	49.93	74	-24.07
11490.00	H	Average	20.80	18.39	39.19	54	-14.81

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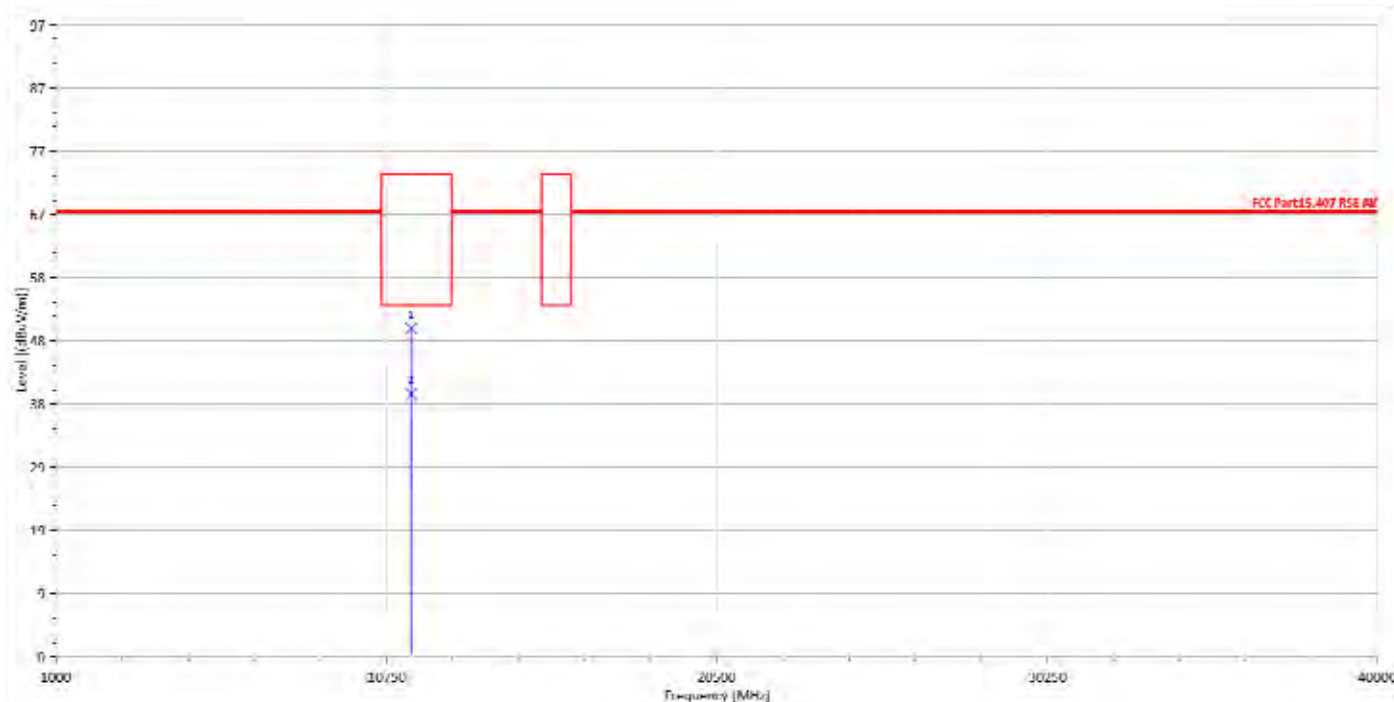
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	32.02	18.39	50.41	74	-23.59
11490.00	H	Average	21.92	18.39	40.31	54	-13.69

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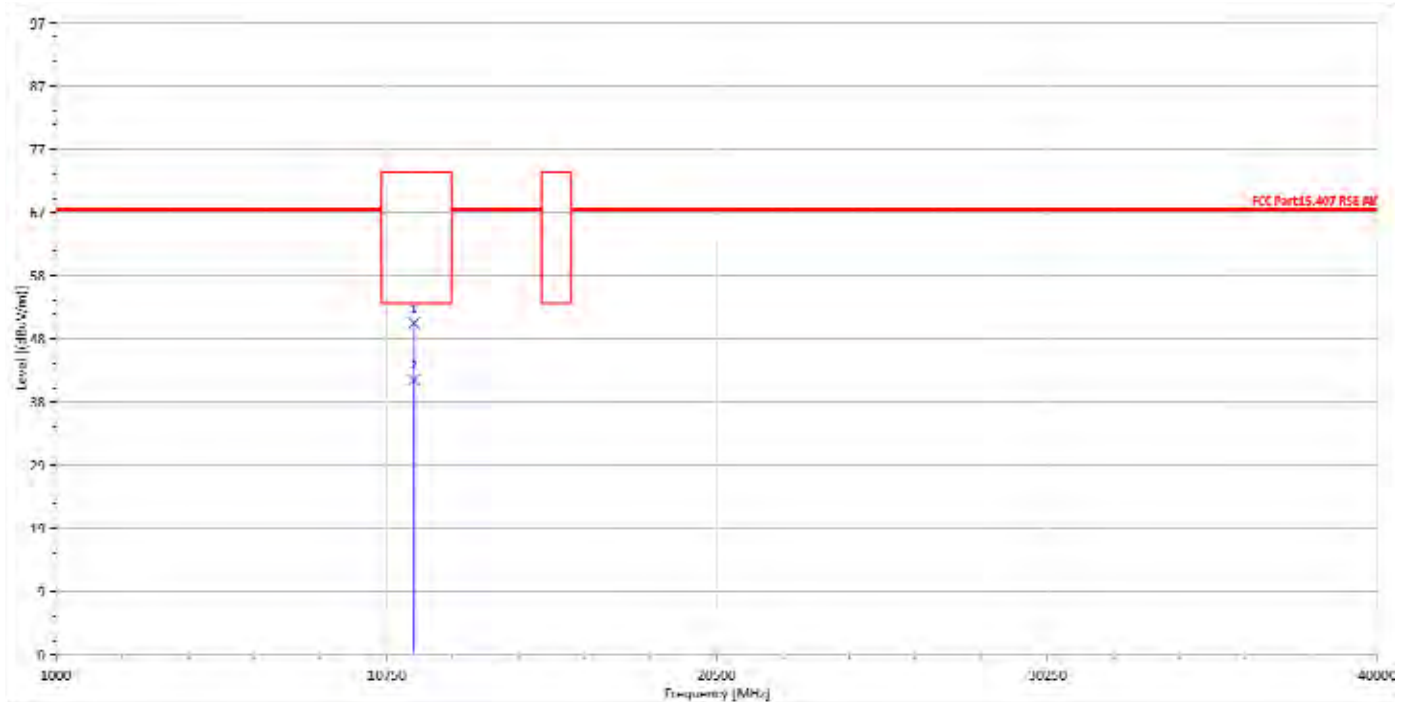
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Operation Mode : 802.11a Test Date : 2016/4/6
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.54	19.38	50.92	74	-23.08
11570.00	H	Average	22.75	19.38	42.13	54	-11.87

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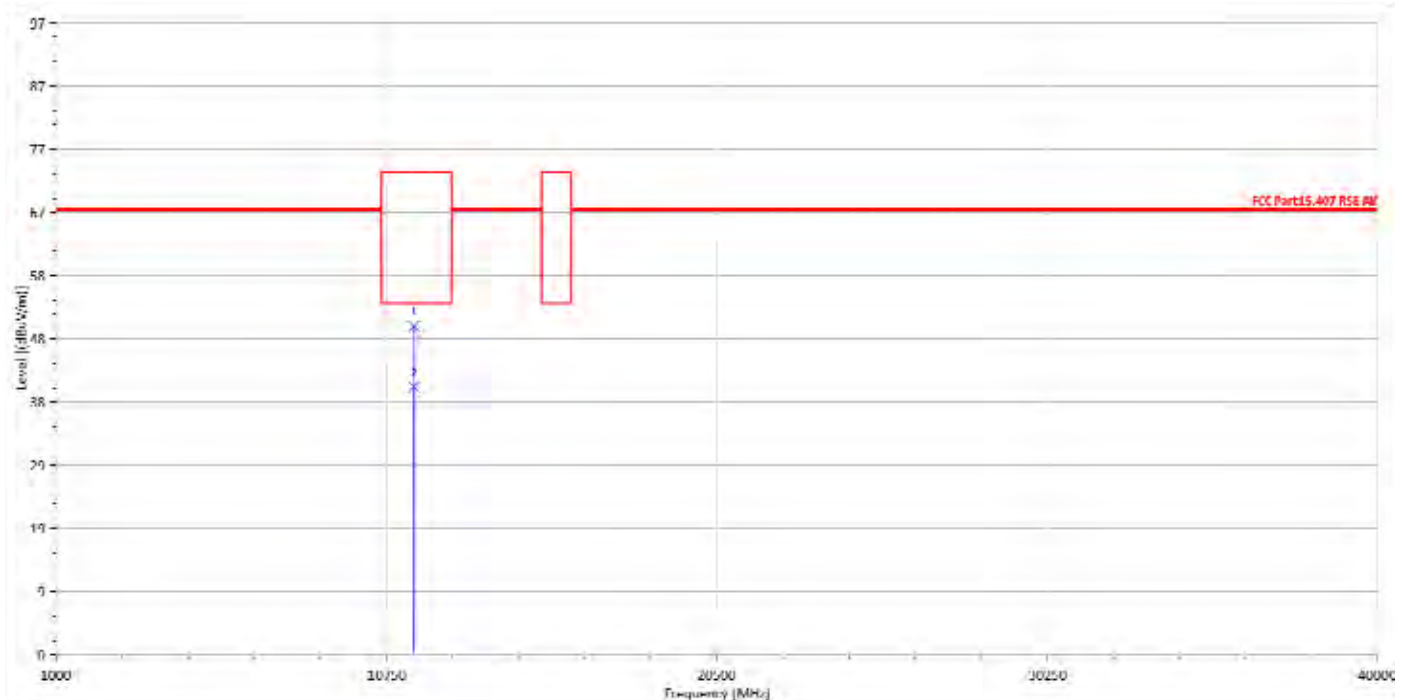
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Operation Mode : 802.11a Test Date : 2016/4/6
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.06	19.38	50.44	74	-23.56
11570.00	H	Average	21.67	19.38	41.05	54	-12.95

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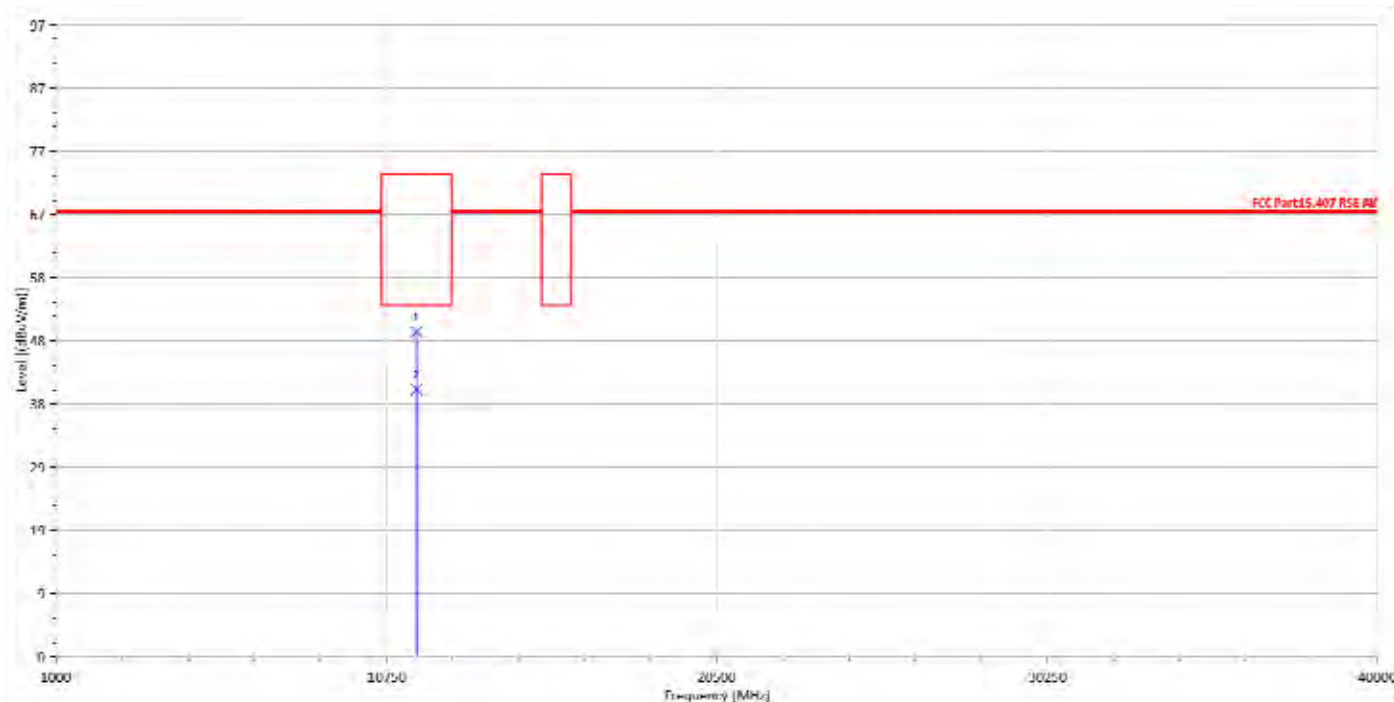
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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	29.71	20.23	49.95	74	-24.05
11650.00	H	Average	20.73	20.23	40.96	54	-13.04

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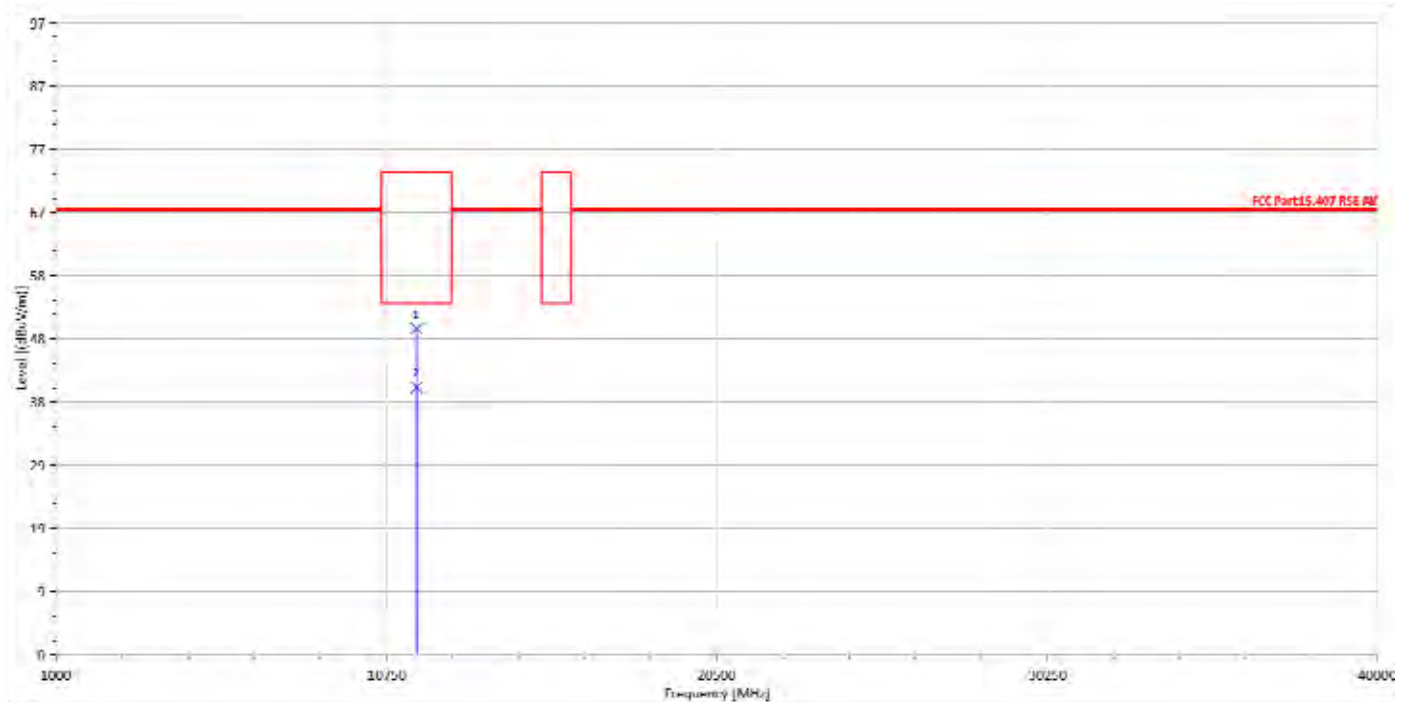
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Operation Mode : 802.11a Test Date : 2016/4/6
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	29.83	20.23	50.06	74	-23.94
11650.00	H	Average	20.74	20.23	40.97	54	-13.03

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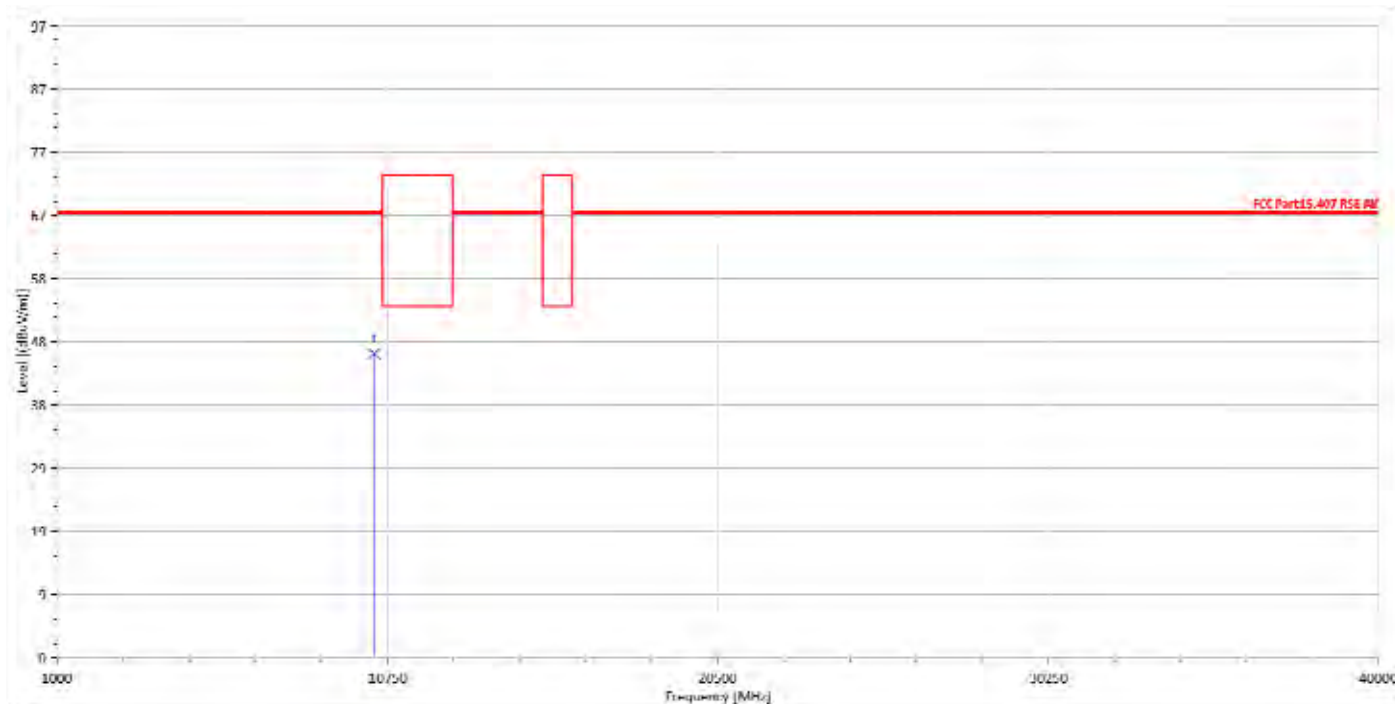
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	29.02	17.62	46.64	68.3	-21.66

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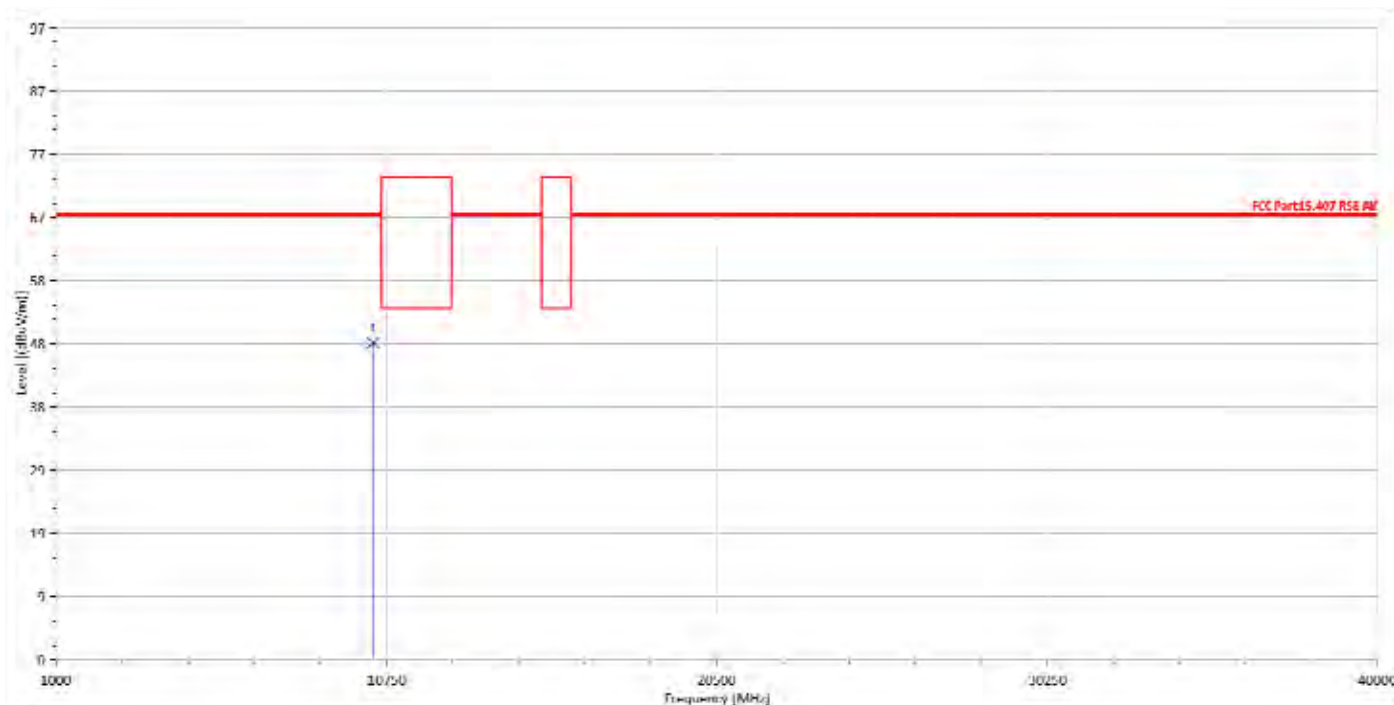
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Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	31.04	17.62	48.66	68.3	-19.64

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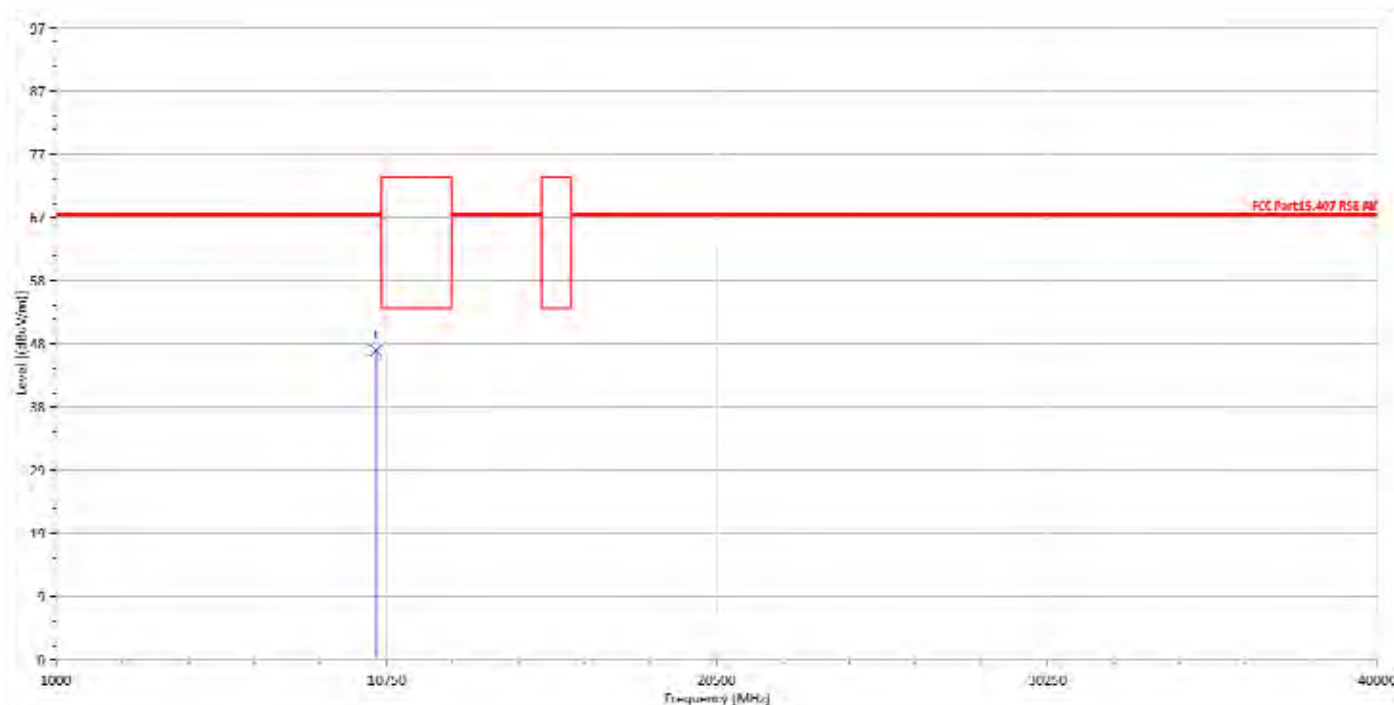
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	29.82	17.65	47.47	68.3	-20.83

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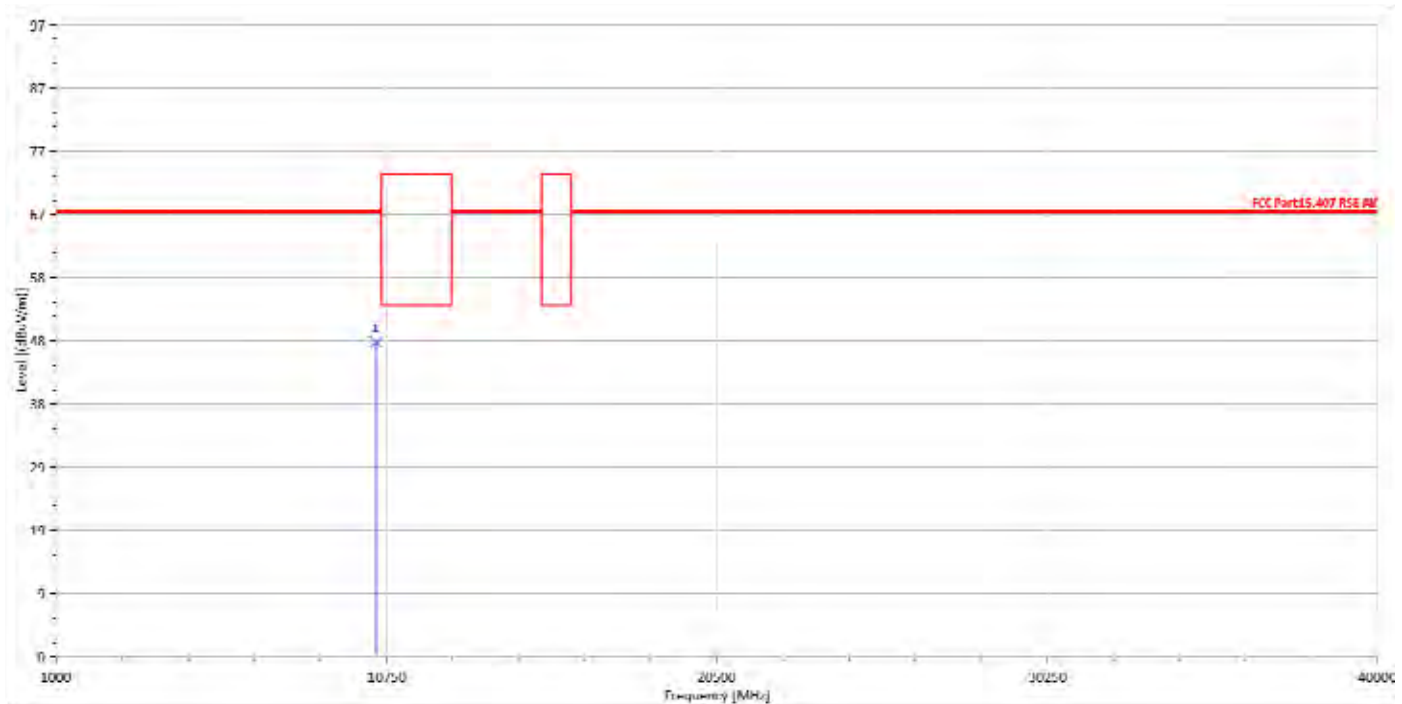
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Operation Mode : 802.11n20 Test Date : 2016/4/6
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	30.62	17.65	48.28	68.3	-20.02

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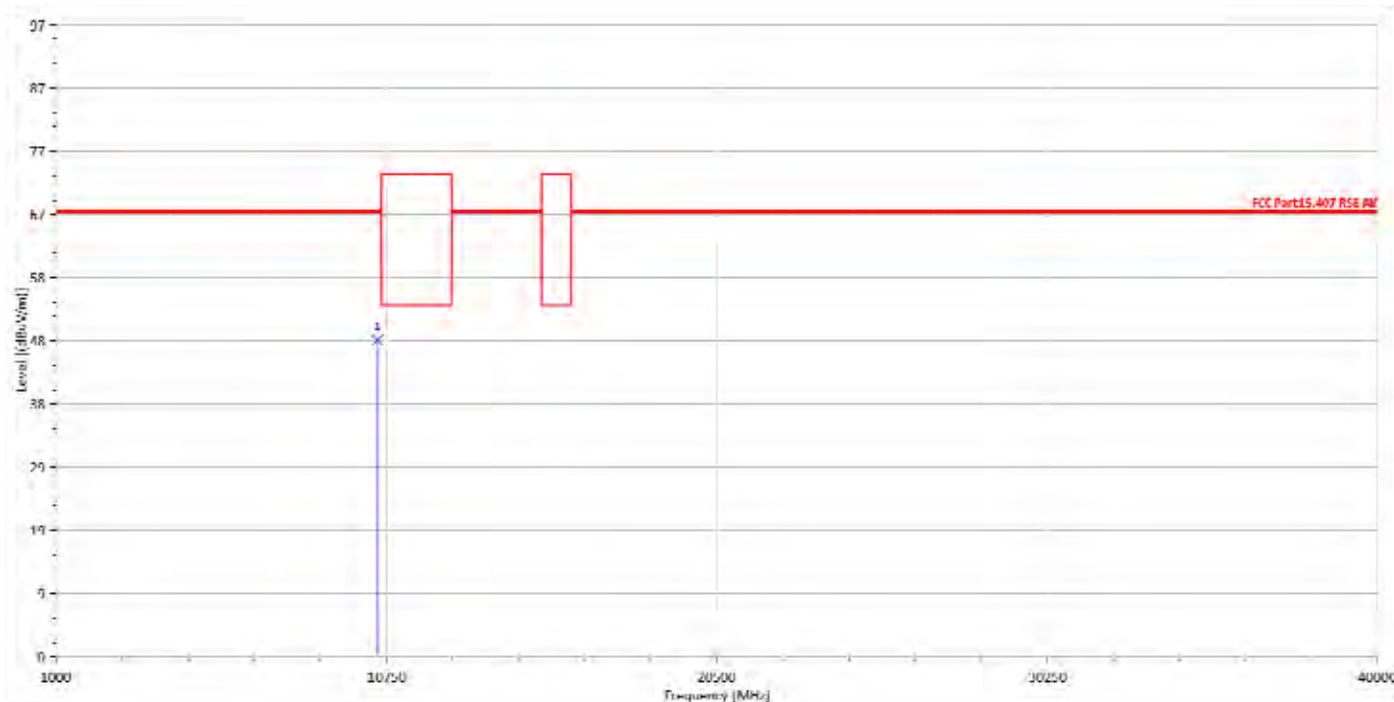
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Operation Mode : 802.11n20 Test Date : 2016/4/6
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	30.60	18.00	48.60	68.3	-19.70

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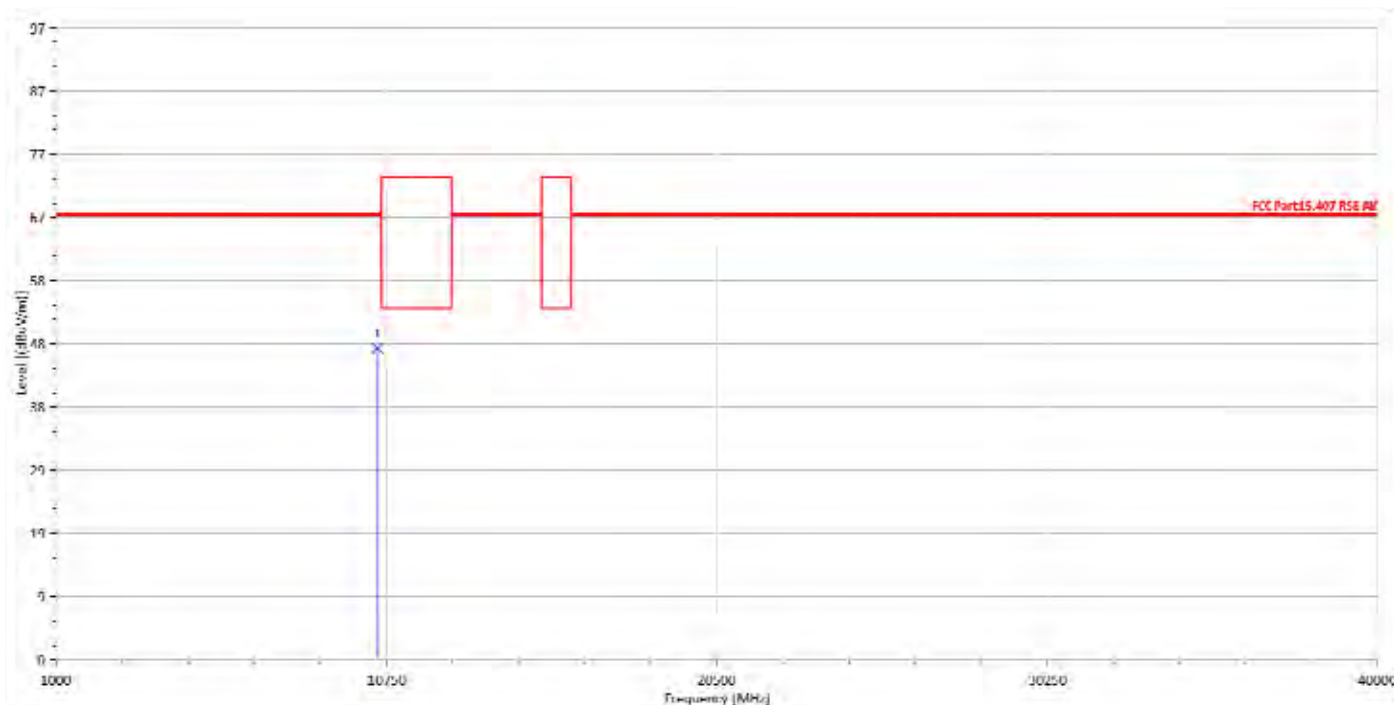
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Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	29.81	18.00	47.81	68.3	-20.49

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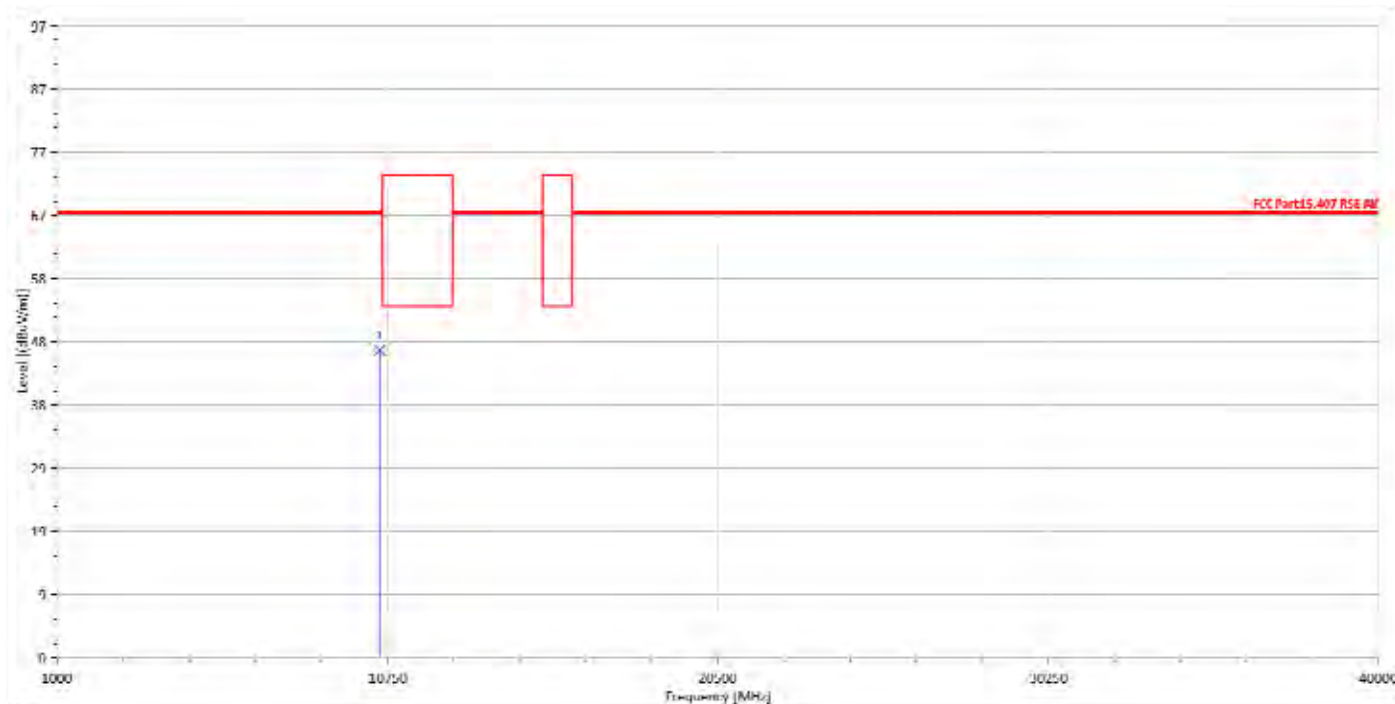
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	29.81	17.39	47.20	68.3	-21.10

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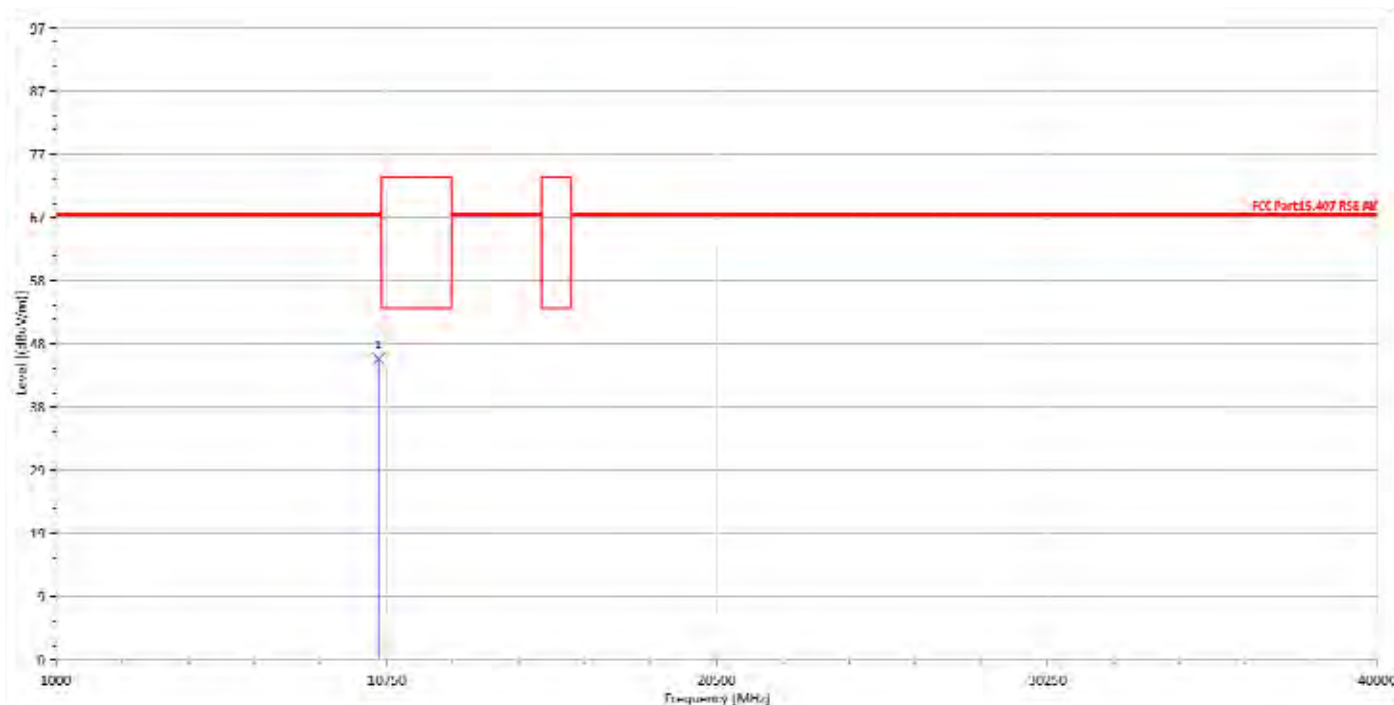
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Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	28.77	17.39	46.16	68.3	-22.14

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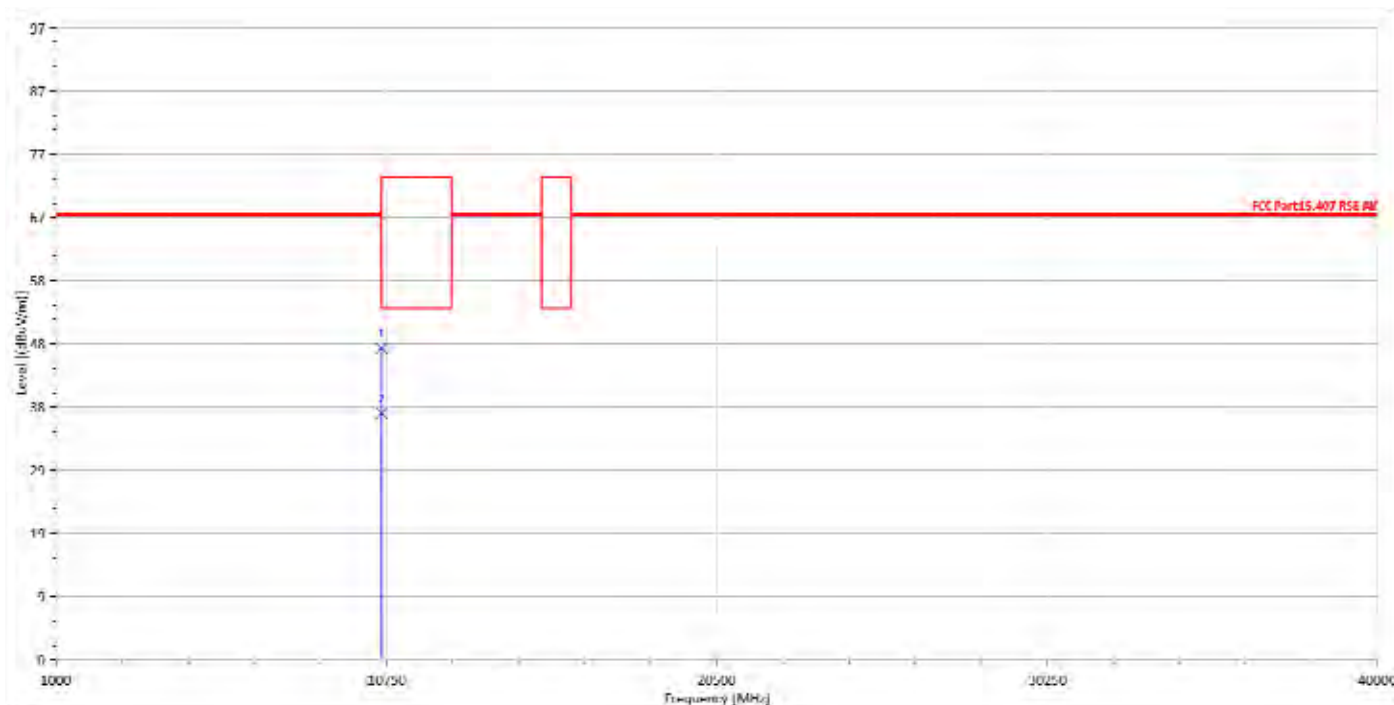
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.41	17.41	47.81	74	-26.19
10600.00	H	Average	20.48	17.41	37.89	54	-16.11

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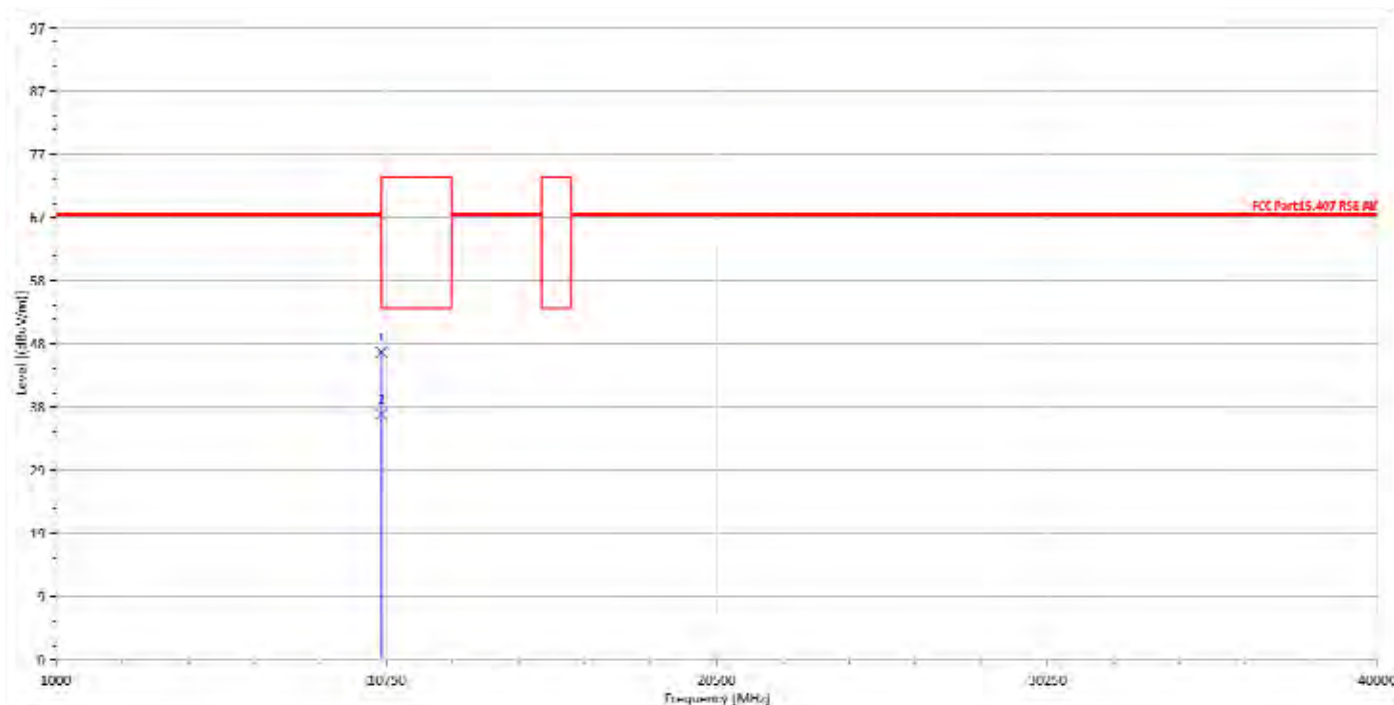
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	29.79	17.41	47.19	74	-26.81
10600.00	H	Average	20.32	17.41	37.73	54	-16.27

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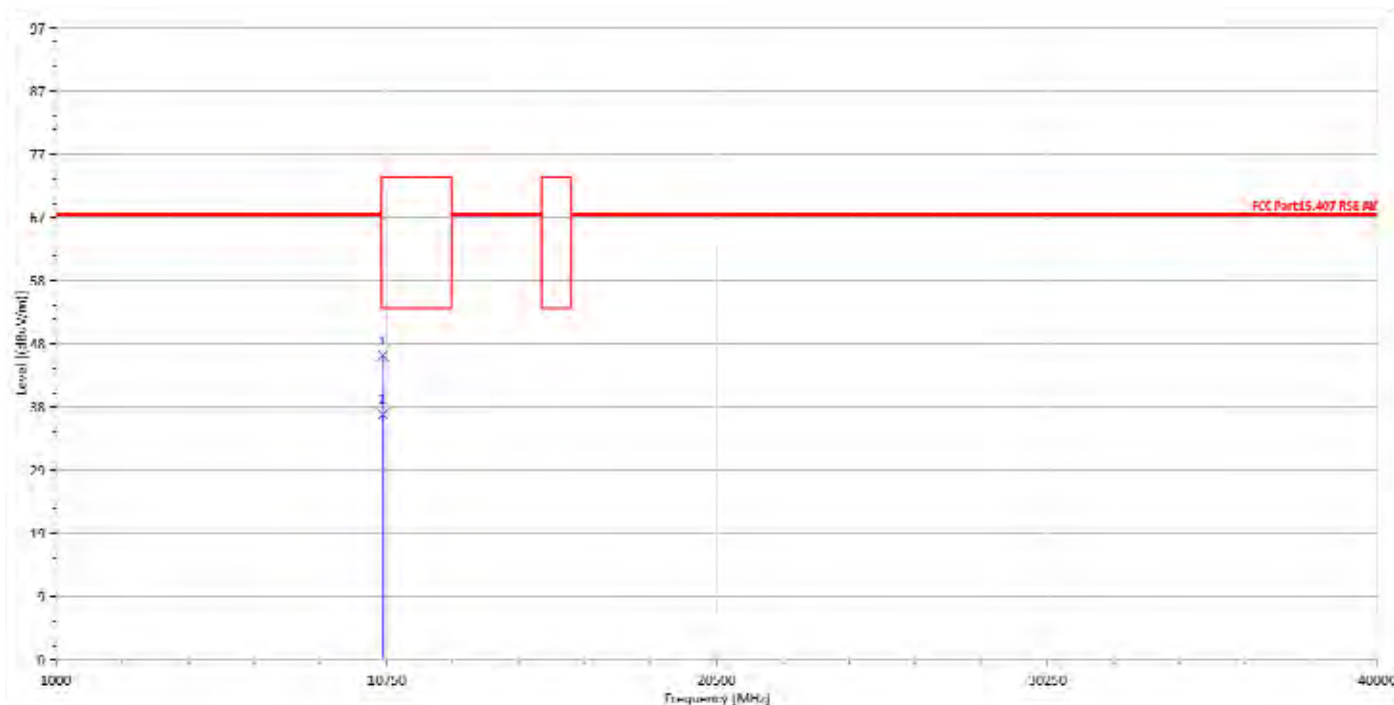
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	29.12	17.56	46.68	74	-27.32
10640.00	H	Average	20.13	17.56	37.69	54	-16.31

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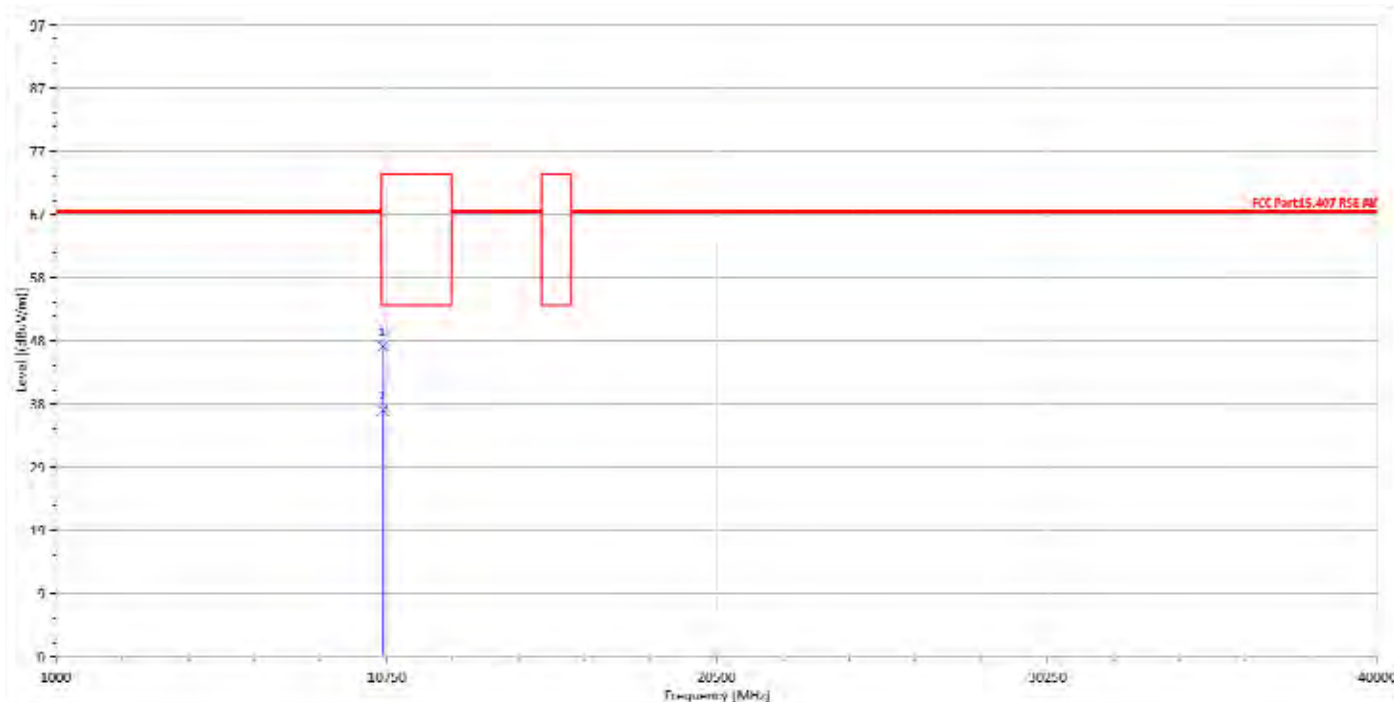
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	30.13	17.56	47.69	74	-26.31
10640.00	H	Average	20.34	17.56	37.90	54	-16.10

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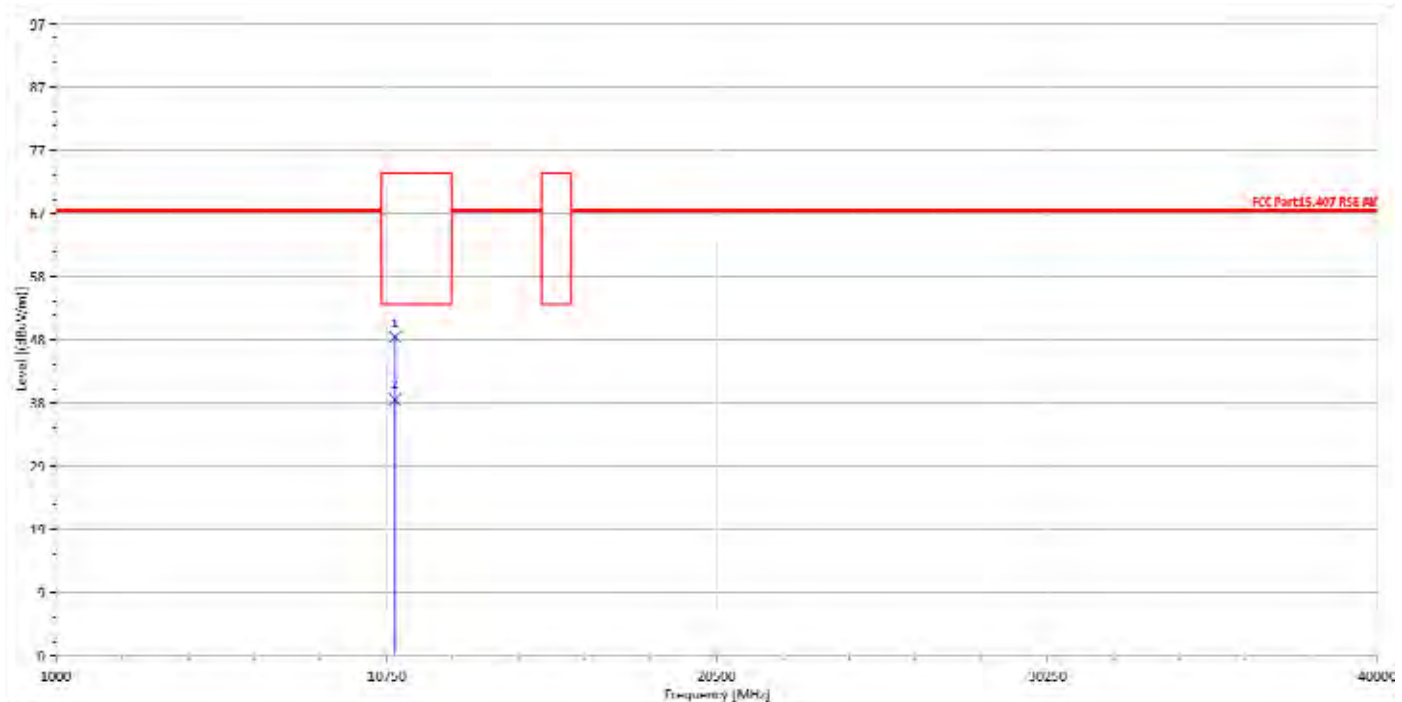
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	29.84	19.11	48.95	74	-25.05
11000.00	H	Average	20.24	19.11	39.35	54	-14.65

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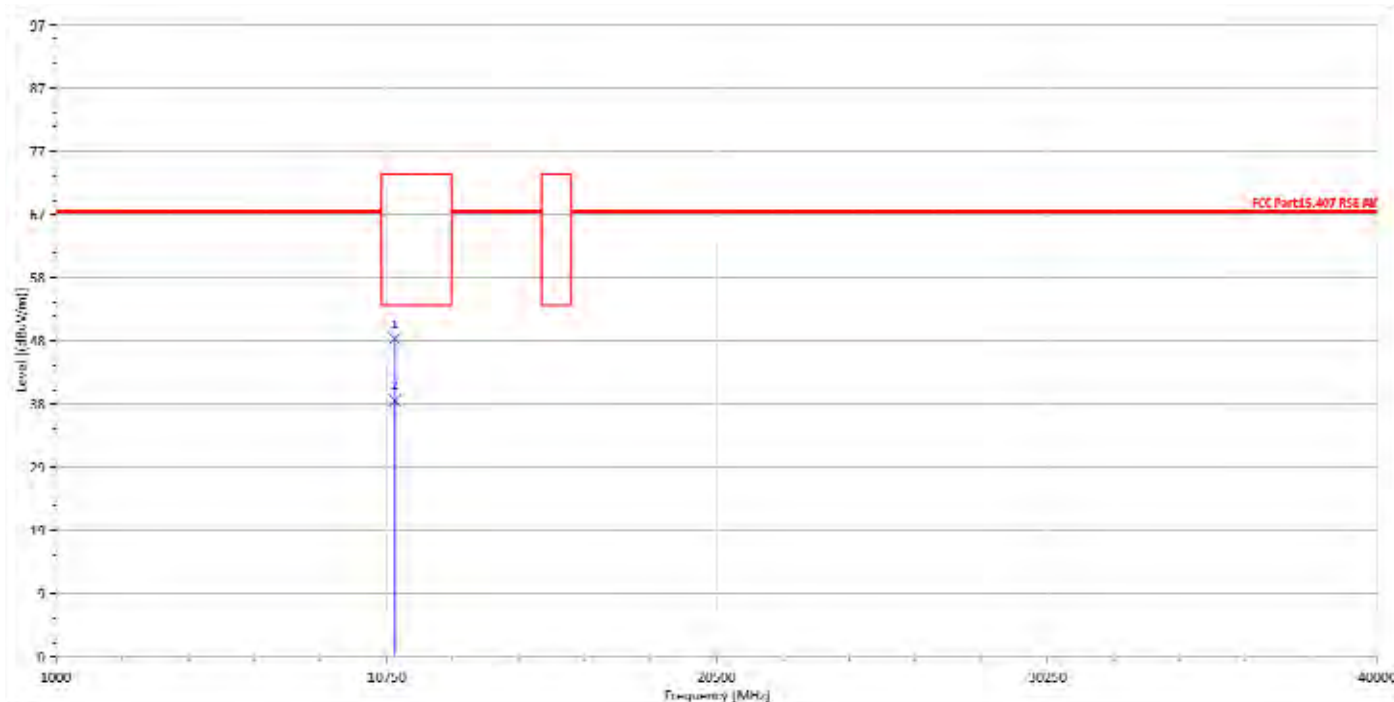
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Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	29.70	19.11	48.80	74	-25.20
11000.00	H	Average	20.23	19.11	39.34	54	-14.66

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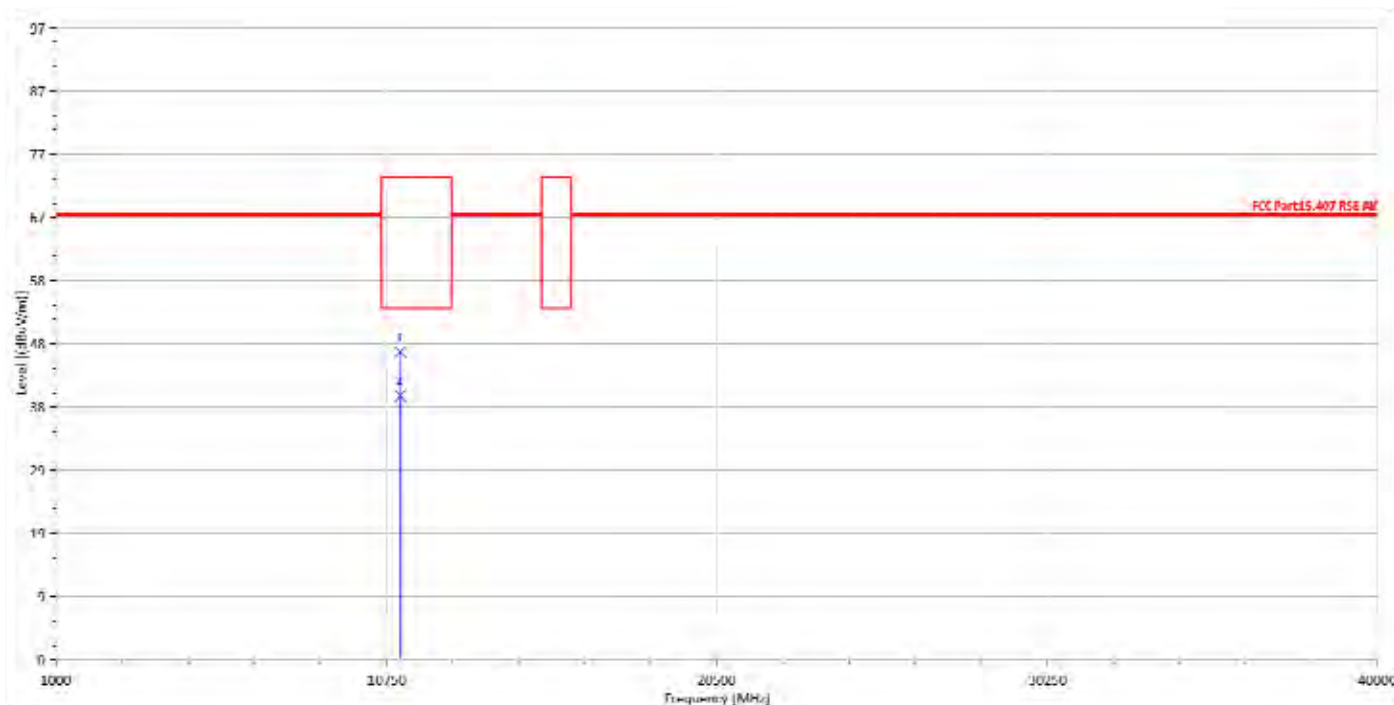
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	27.96	19.26	47.22	74	-26.78
11160.00	H	Average	21.22	19.26	40.48	54	-13.52

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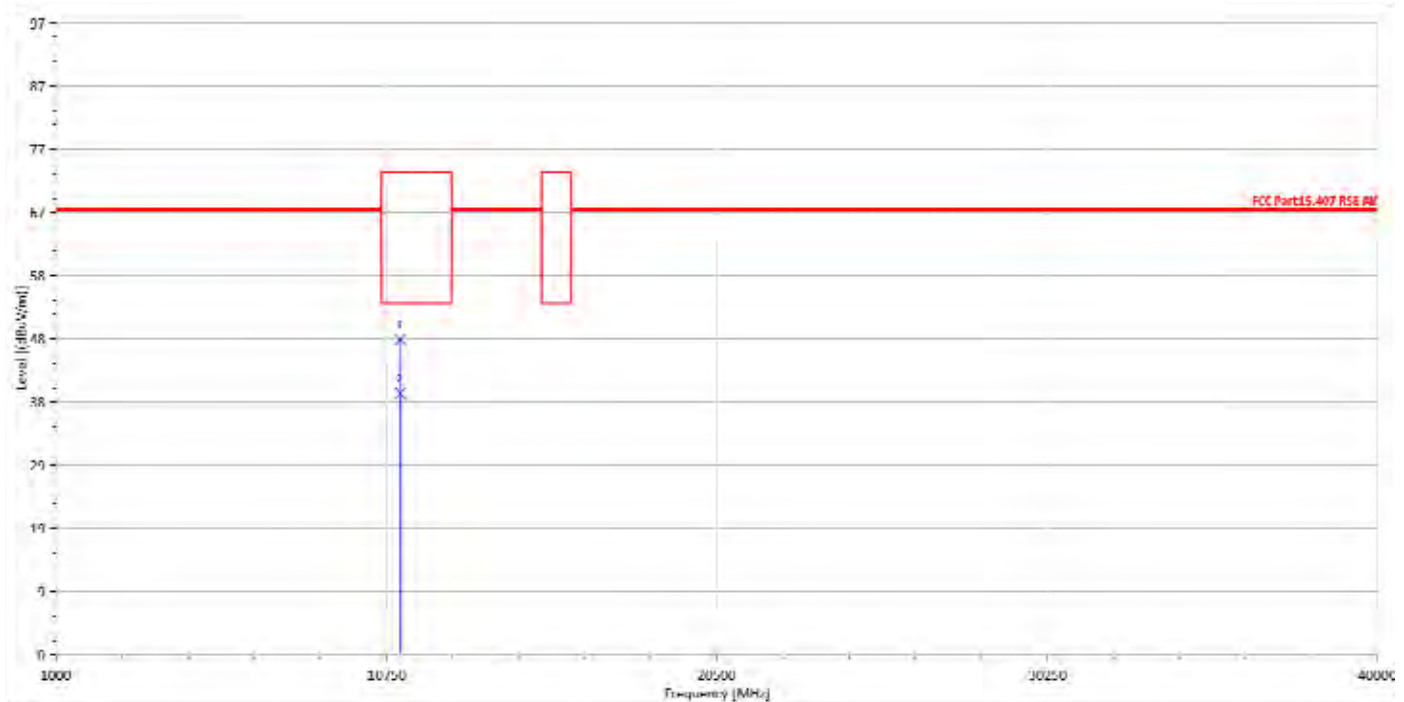
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Operation Mode : 802.11n20 Test Date : 2016/4/6
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	29.12	19.26	48.39	74	-25.61
11160.00	H	Average	20.83	19.26	40.09	54	-13.91

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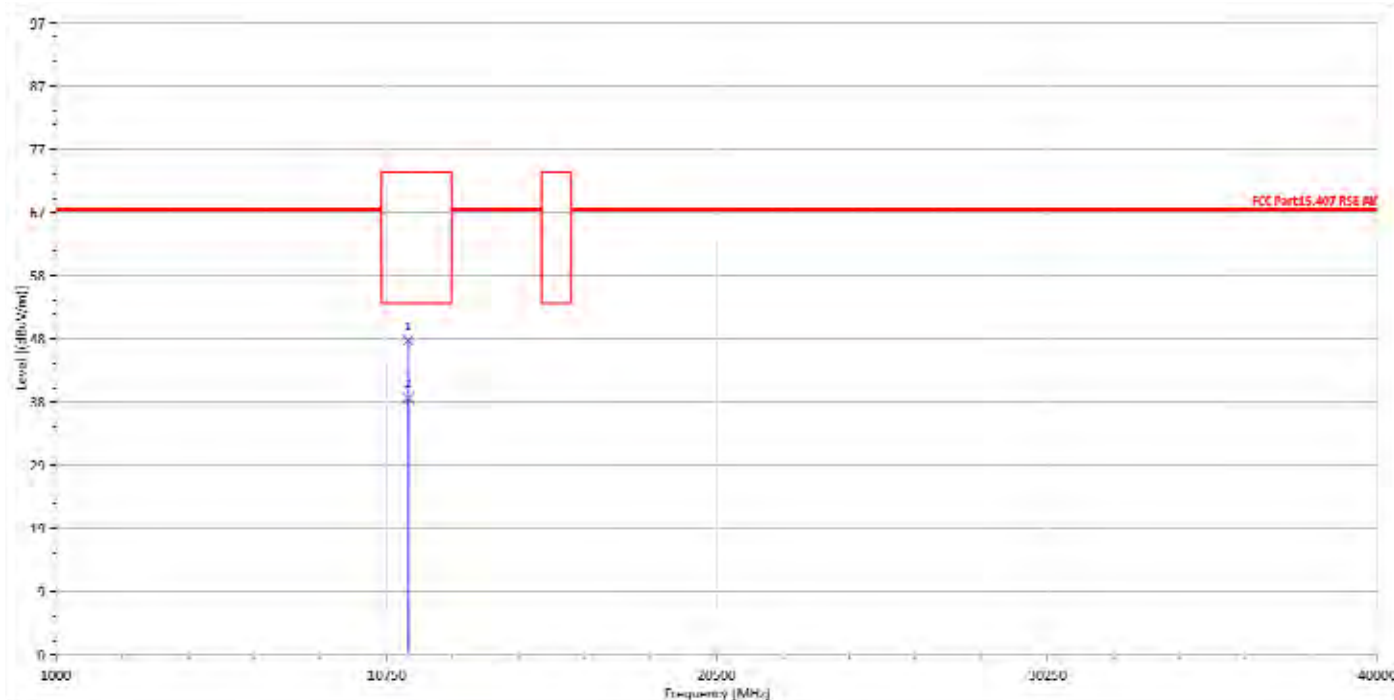
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	29.47	18.78	48.25	74	-25.75
11400.00	H	Average	20.64	18.78	39.42	54	-14.58

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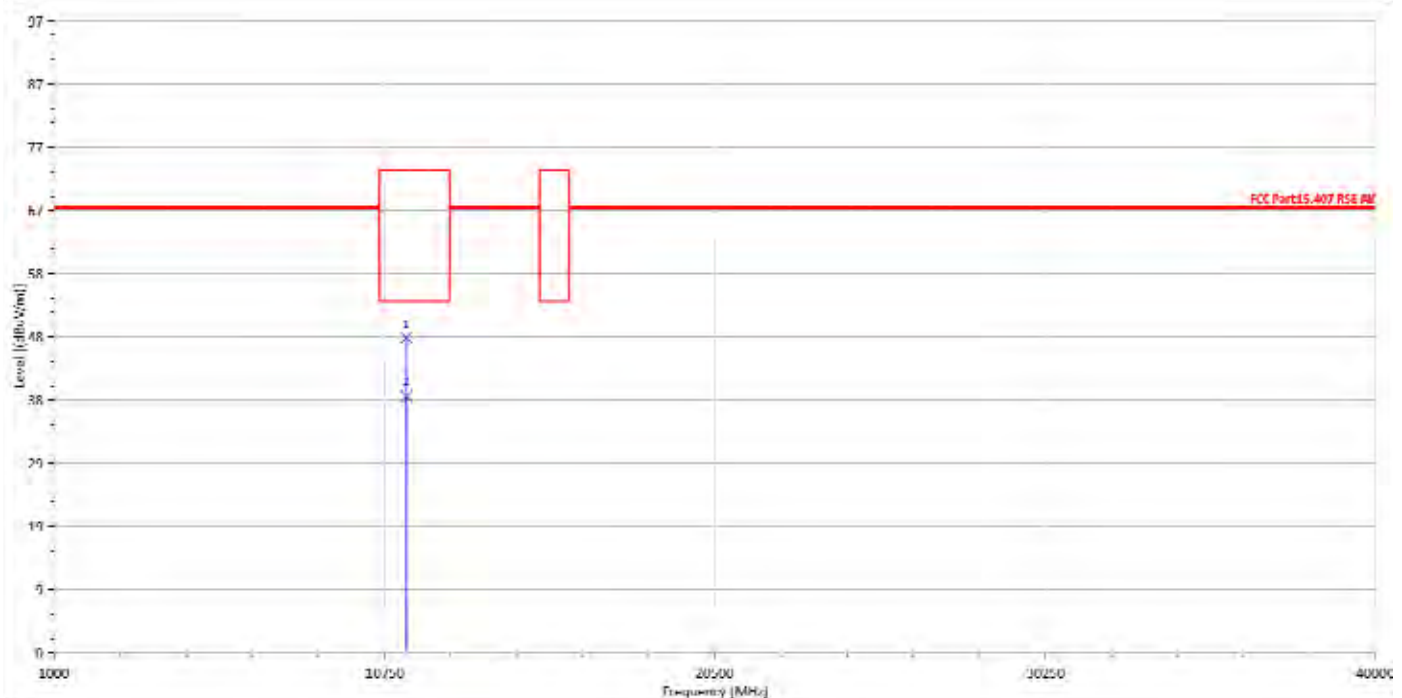
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Operation Mode : 802.11n20 Test Date : 2016/4/6
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	29.57	18.78	48.35	74	-25.65
11400.00	H	Average	20.62	18.78	39.40	54	-14.60

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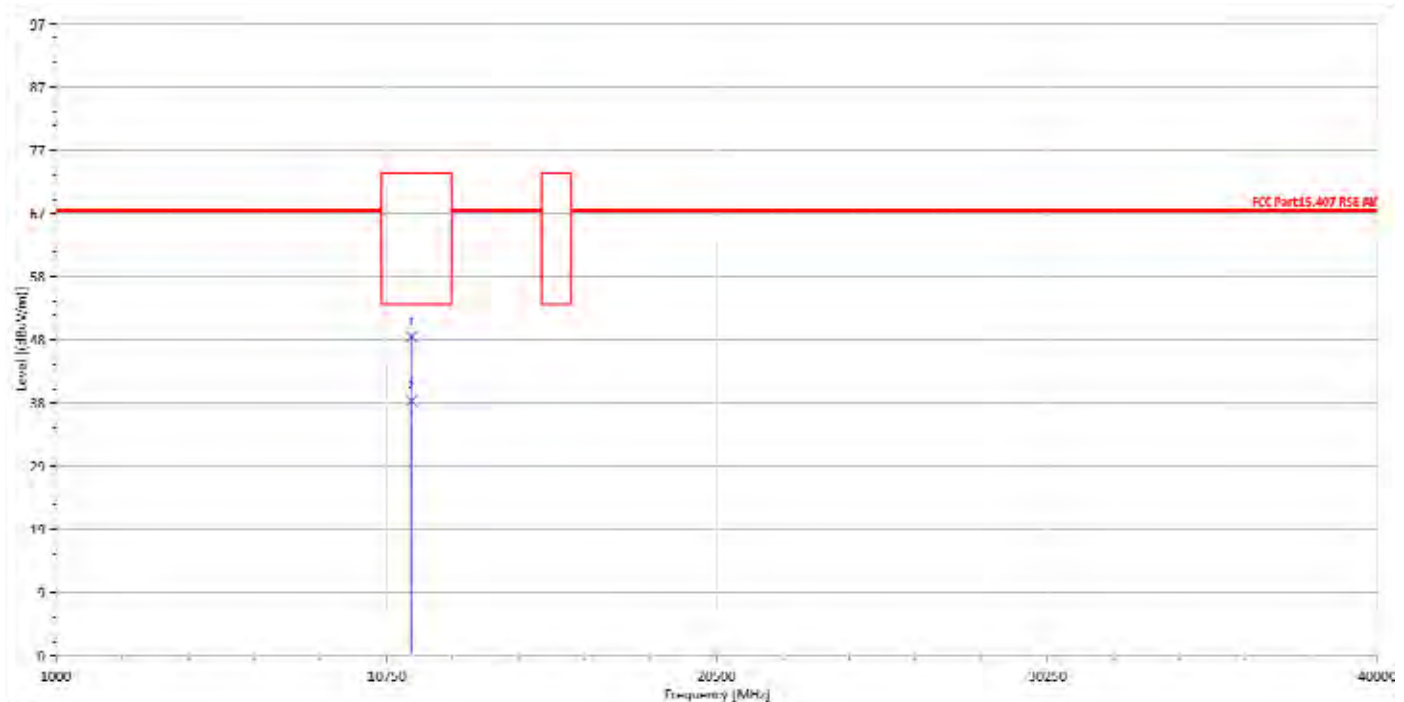
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	30.59	18.39	48.98	74	-25.02
11490.00	H	Average	20.78	18.39	39.17	54	-14.83

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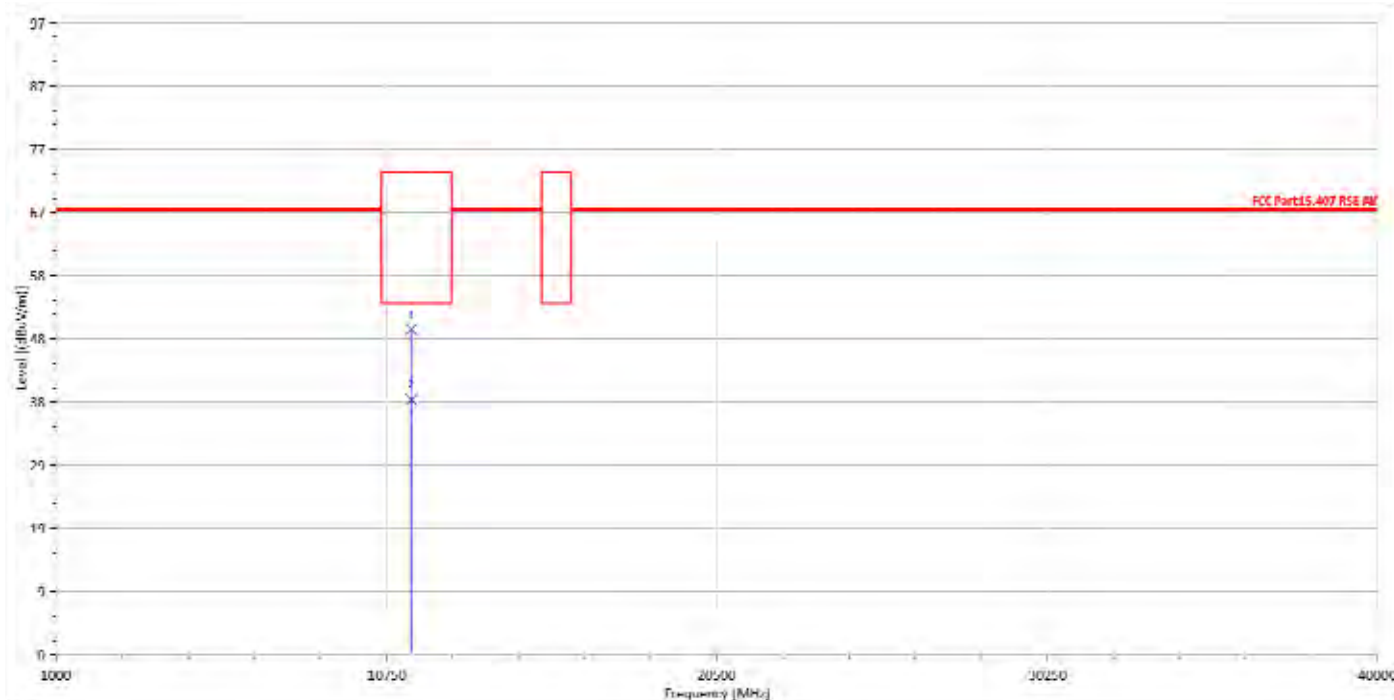
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Operation Mode : 802.11n20 Test Date : 2016/4/6
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.59	18.39	49.98	74	-24.02
11490.00	H	Average	20.79	18.39	39.18	54	-14.82

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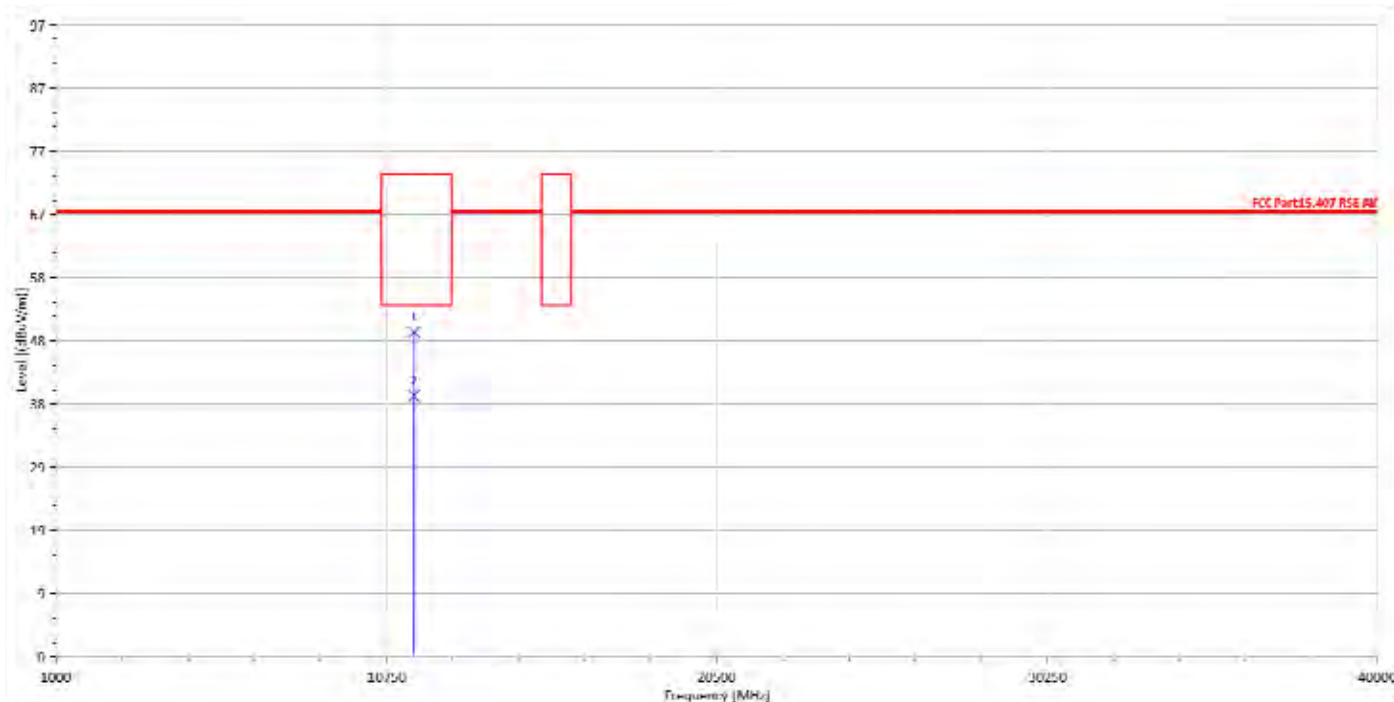
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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	30.46	19.38	49.84	74	-24.16
11570.00	H	Average	20.68	19.38	40.06	54	-13.94

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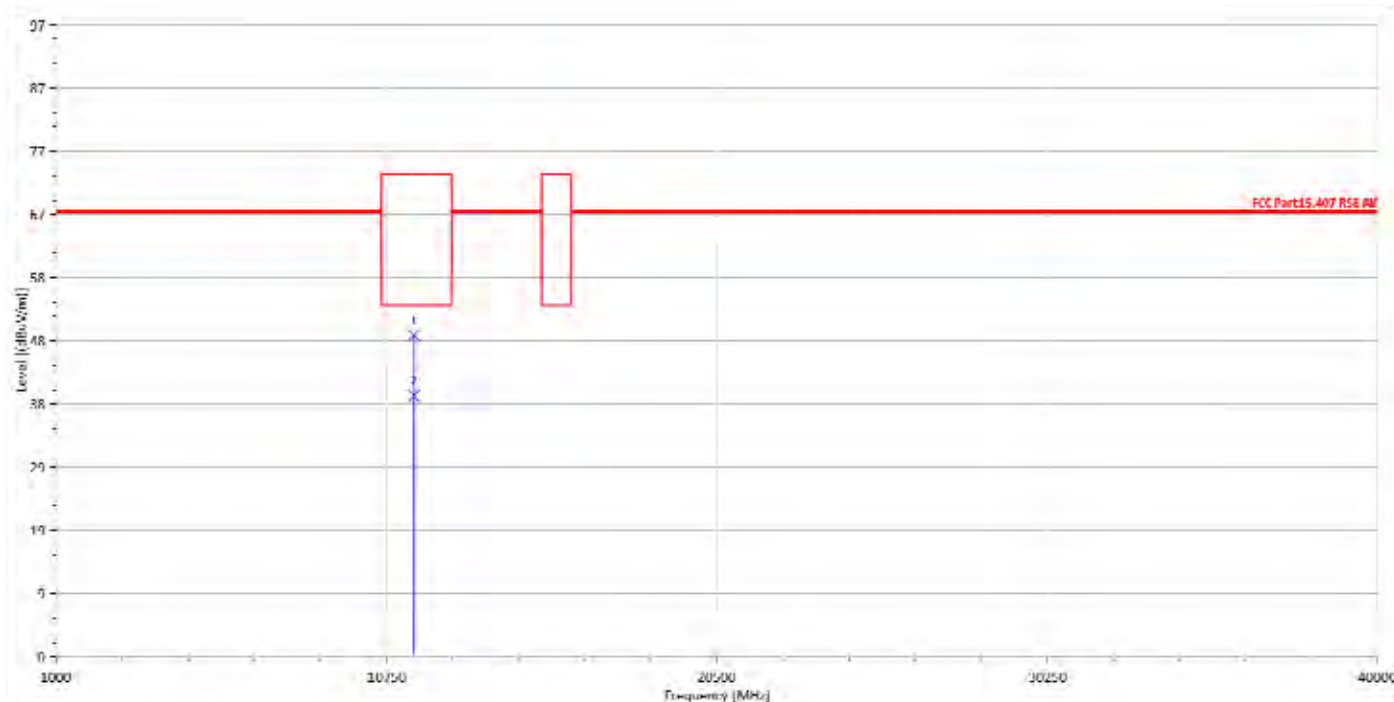
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Operation Mode : 802.11n20 Test Date : 2016/4/6
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	29.98	19.38	49.36	74	-24.64
11570.00	H	Average	20.68	19.38	40.06	54	-13.94

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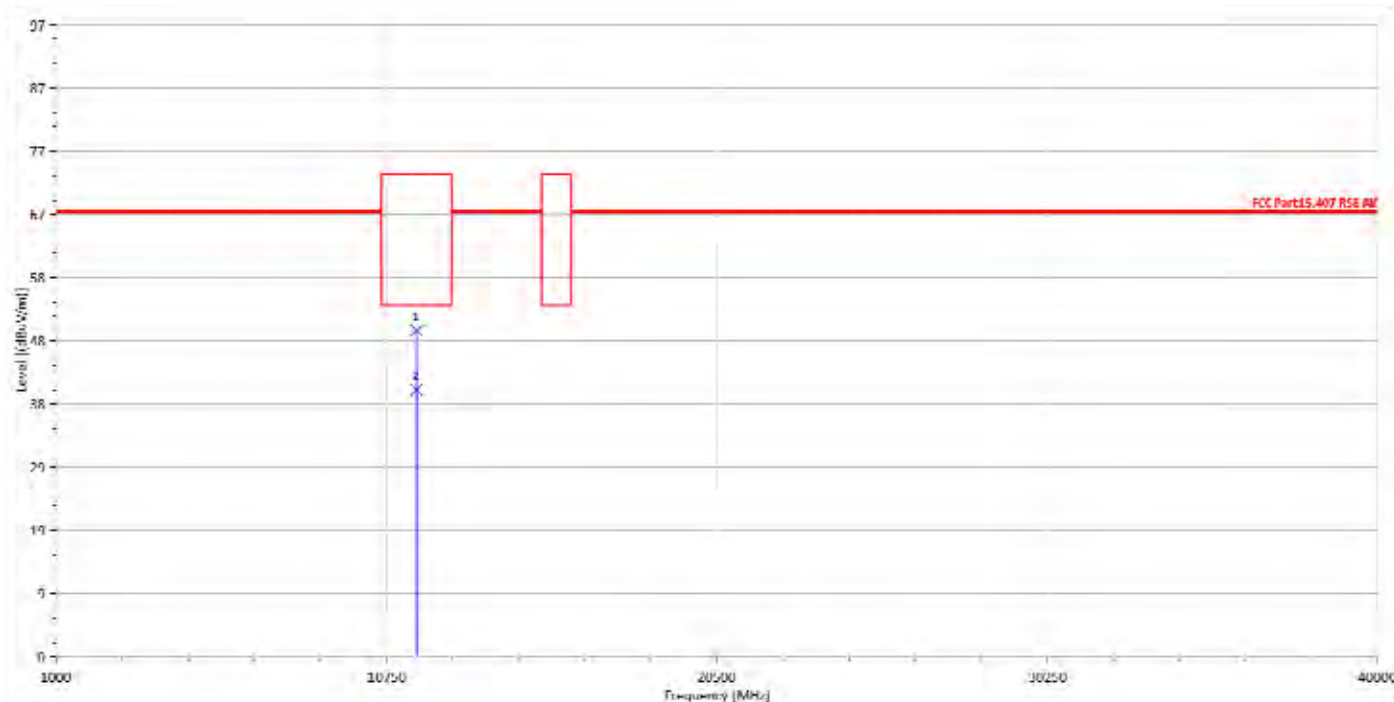
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Operation Mode : 802.11n20 Test Date : 2016/4/6
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	29.86	20.23	50.09	74	-23.91
11650.00	H	Average	20.67	20.23	40.90	54	-13.10

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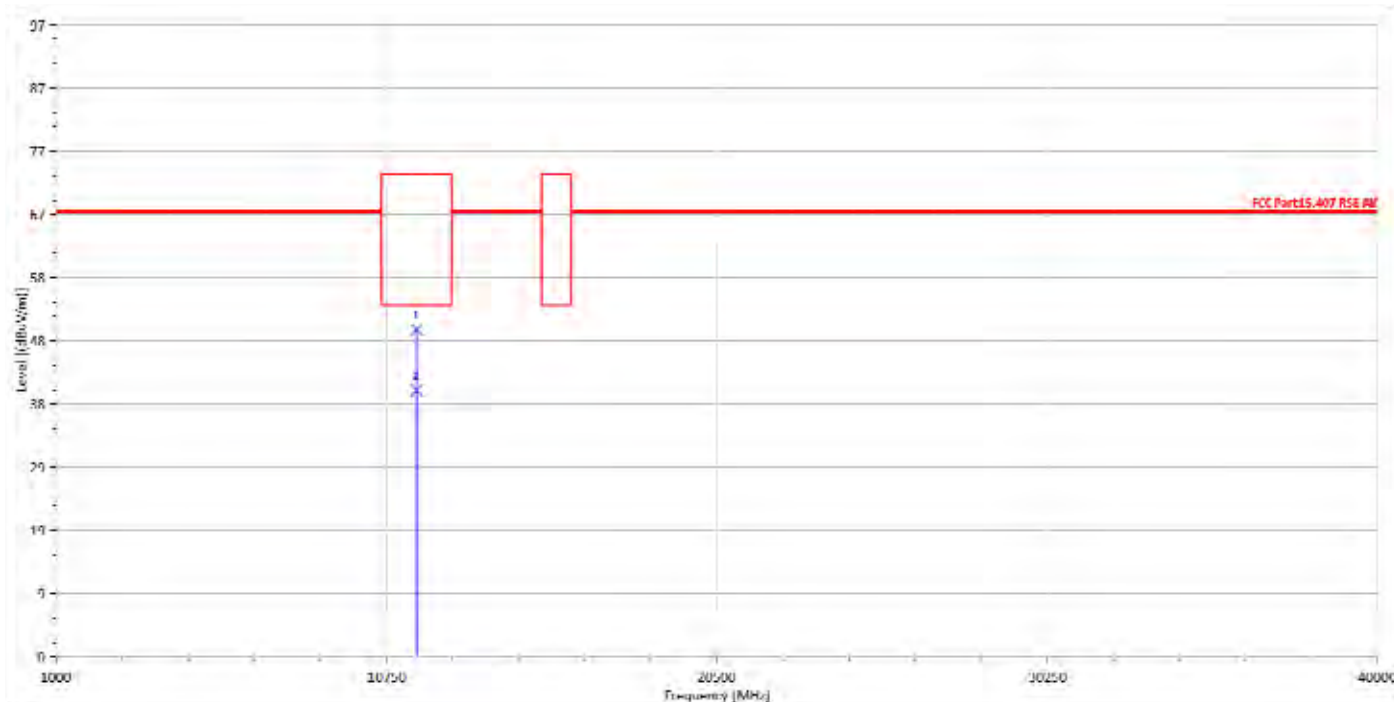
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Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	30.00	20.23	50.23	74	-23.77
11650.00	H	Average	20.58	20.23	40.81	54	-13.19

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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5148.04	S	Peak	51.44	10.77	62.20	74	-11.80
5148.04	S	Average	30.72	10.77	41.49	54	-12.51
5150.00	E	Peak	50.36	10.78	61.14	74	-12.86
5150.00	E	Average	30.97	10.78	41.75	54	-12.25

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5148.28	S	Peak	48.93	10.77	59.70	74	-14.30
5148.28	S	Average	30.43	10.77	41.20	54	-12.80
5150.00	E	Peak	47.58	10.78	58.36	74	-15.64
5150.00	E	Average	30.57	10.78	41.35	54	-12.65

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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	49.86	11.67	61.54	74	-12.46
5350.00	E	Average	32.42	11.67	44.09	54	-9.91
5351.28	S	Peak	51.69	11.70	63.39	74	-10.61
5351.28	S	Average	31.71	11.70	43.41	54	-10.59

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	47.51	11.67	59.19	74	-14.81
5350.00	E	Average	31.32	11.67	42.99	54	-11.01

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Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	47.01	11.66	58.67	74	-15.33
5460.00	E	Average	31.34	11.66	43.00	54	-11.00

Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5457.68	S	Peak	45.36	11.68	57.04	74	-16.96
5457.68	S	Average	30.53	11.68	42.21	54	-11.79
5460.00	E	Peak	44.30	11.66	55.96	74	-18.04
5460.00	E	Average	30.72	11.66	42.38	54	-11.62

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Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	51.69	11.57	63.26	68.3	-5.04

Operation Mode :	802.11a	Test Date :	2016/4/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	48.74	11.57	60.31	68.3	-7.99

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Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	45.17	12.01	57.18	68.3	-11.12
5726.24	S	Peak	46.51	12.01	58.53	68.3	-9.77

Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	47.69	12.01	59.70	68.3	-8.60

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Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5714.70	S	Peak	47.01	11.97	58.98	68.3	-9.32
5723.80	S	Peak	52.59	12.01	64.60	78.2	-13.60
5725.00	E	Peak	53.34	12.01	65.35	78.2	-12.85

Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5714.80	S	Peak	49.36	11.97	61.33	68.3	-6.97
5725.00	E	Peak	56.19	12.01	68.20	78.2	-10.00

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Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	43.98	12.15	56.13	78.2	-22.07
5853.50	S	Peak	46.35	12.21	58.56	78.2	-19.64
5861.80	S	Peak	42.64	12.36	55.01	68.3	-13.29

Operation Mode : 802.11a Test Date : 2016/4/6
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	44.75	12.15	56.90	78.2	-21.30
5852.00	S	Peak	46.68	12.18	58.86	78.2	-19.34
5863.70	S	Peak	43.02	12.35	55.37	68.3	-12.93

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802.11n20 HT mode

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5148.52	S	Peak	52.41	10.77	63.18	74	-10.82
5148.52	S	Average	30.80	10.77	41.57	54	-12.43
5150.00	E	Peak	50.05	10.78	60.83	74	-13.17
5150.00	E	Average	31.11	10.78	41.89	54	-12.11

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5148.40	S	Peak	50.00	10.77	60.77	74	-13.23
5148.40	S	Average	30.47	10.77	41.24	54	-12.76
5150.00	E	Peak	47.69	10.78	58.47	74	-15.53
5150.00	E	Average	30.69	10.78	41.47	54	-12.53

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Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	S	Peak	50.10	11.67	61.78	74	-12.22
5350.00	S	Average	31.69	11.67	43.36	54	-10.64
5350.92	E	Peak	50.74	11.69	62.43	74	-11.57
5350.92	E	Average	31.19	11.69	42.88	54	-11.12

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	45.42	11.67	57.09	74	-16.91
5350.00	E	Average	31.02	11.67	42.69	54	-11.31
5350.44	S	Peak	46.29	11.68	57.97	74	-16.03
5350.44	S	Average	30.64	11.68	42.32	54	-11.68

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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	51.57	11.66	63.23	74	-10.77
5460.00	E	Average	32.83	11.66	44.49	54	-9.51

Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	46.35	11.66	58.01	74	-15.99
5460.00	E	Average	31.07	11.66	42.73	54	-11.27

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Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5469.80	S	Peak	55.53	11.57	67.11	68.3	-1.19
5470.00	S	Peak	54.82	11.57	66.39	68.3	-1.91

Operation Mode :	802.11n20	Test Date :	2016/4/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5469.56	S	Peak	51.33	11.57	62.91	68.3	-5.39
5470.00	S	Peak	50.33	11.57	61.90	68.3	-6.40

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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	49.87	12.01	61.88	68.3	-6.42
5725.52	S	Peak	50.44	12.01	62.45	68.3	-5.85

Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	46.37	12.01	58.38	68.3	-9.92
5725.40	S	Peak	47.13	12.01	59.14	68.3	-9.16

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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5724.50	S	Peak	50.82	12.01	62.83	78.2	-15.37
5725.00	E	Peak	49.04	12.01	61.05	78.2	-17.15

Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5724.00	S	Peak	52.88	12.01	64.89	78.2	-13.31
5725.00	E	Peak	50.85	12.01	62.86	78.2	-15.34

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Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	44.41	12.15	56.56	78.2	-21.64
5850.70	S	Peak	45.61	12.16	57.77	78.2	-20.43

Operation Mode : 802.11n20 Test Date : 2016/4/6
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	43.13	12.15	55.28	78.2	-22.92
5858.40	S	Peak	45.33	12.30	57.63	78.2	-20.57

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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

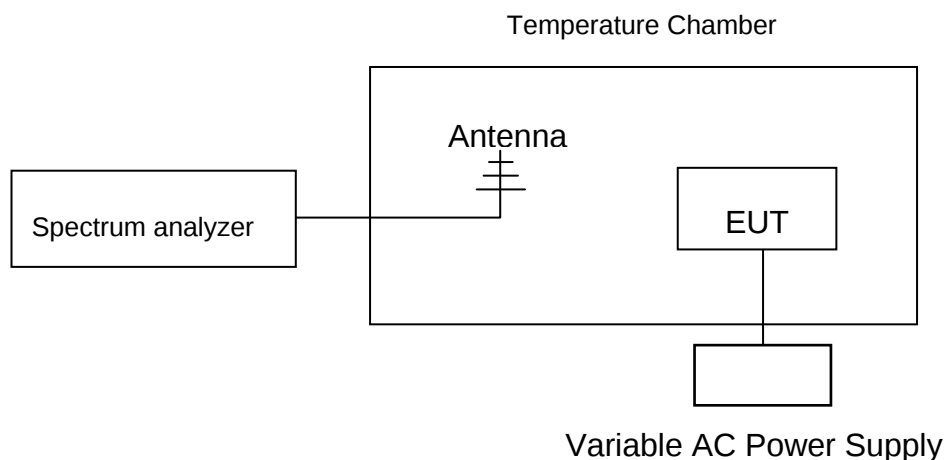
13.1 Standard Applicable

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:

Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2016.03.31
Temperature	:25	Test By	Enzo
Humidity	:61 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	13.2V	36	5180	5,180.00176	-0.00000034
		44	5220	5,220.01695	-0.00000325
		48	5240	5,239.98530	0.00000281
		52	5260	5,260.01502	-0.00000286
		60	5300	5,299.98654	0.00000254
		64	5320	5,320.00139	-0.00000026
		100	5500	5,500.00040	-0.00000007
		116	5580	5,580.01602	-0.00000287
		140	5700	5,699.97064	0.00000515
		149	5745	5,745.01606	-0.00000279
		157	5785	5,784.98547	0.00000251
		165	5825	5,824.97054	0.00000506
	10.8V	36	5180	5,180.00055	-0.00000011
		44	5220	5,220.01523	-0.00000292
		48	5240	5,239.98547	0.00000277
		52	5260	5,260.01605	-0.00000305
		60	5300	5,299.98610	0.00000262
		64	5320	5,320.00035	-0.00000007
		100	5500	5,500.00166	-0.00000030
		116	5580	5,580.01541	-0.00000276
		140	5700	5,699.97038	0.00000520
		149	5745	5,745.01611	-0.00000280
		157	5785	5,784.98698	0.00000225
		165	5825	5,824.97190	0.00000482

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25	12V	36	5180	5,180.00000	0.00000000
		44	5220	5,220.01514	-0.00000290
		48	5240	5,239.98511	0.00000284
		52	5260	5,260.01489	-0.00000283
		60	5300	5,299.98511	0.00000281
		64	5320	5,320.00000	0.00000000
		100	5500	5,500.00000	0.00000000
		116	5580	5,580.01489	-0.00000267
		140	5700	5,699.96997	0.00000527
		149	5745	5,745.01514	-0.00000263
		157	5785	5,784.98511	0.00000257
		165	5825	5,824.97022	0.00000511

85	13.2V	36	5180	5,179.99861	0.00000027
		44	5220	5,220.01507	-0.00000289
		48	5240	5,239.98335	0.00000318
		52	5260	5,260.01471	-0.00000280
		60	5300	5,299.98399	0.00000302
		64	5320	5,319.99871	0.00000024
		100	5500	5,499.99931	0.00000013
		116	5580	5,580.01378	-0.00000247
		140	5700	5,699.96798	0.00000562
		149	5745	5,745.01411	-0.00000246
		157	5785	5,784.98316	0.00000291
		165	5825	5,824.97003	0.00000515
	10.8V	36	5180	5,179.99961	0.00000008
		44	5220	5,220.01510	-0.00000289
		48	5240	5,239.98400	0.00000305
		52	5260	5,260.01398	-0.00000266
		60	5300	5,299.98418	0.00000299
		64	5320	5,319.99805	0.00000037
		100	5500	5,499.99991	0.00000002
		116	5580	5,580.01391	-0.00000249
		140	5700	5,699.96840	0.00000554
		149	5745	5,745.01456	-0.00000253
		157	5785	5,784.98311	0.00000292
		165	5825	5,824.96988	0.00000517

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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

An embedded-in antenna designs are used.

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

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

~ End of Report ~

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