

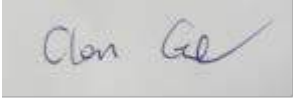
RF TEST REPORT



Report No.: FCC_RF_SL16032801-RUC-008A1_UNII_Rev 1.0

Supersede Report No.: None

Applicant	:	Ruckus Wireless, Inc.
Product Name	:	ZoneFlex T610 Access Point
Model No.	:	T610
Test Standard	:	47 CFR 15.407
Test Method	:	ANSI C63.4: 2014 789033 D02 General UNII Test Procedures New Rules v01
FCC ID	:	S9GRT610
IC ID	:	5912A-T610
Dates of test	:	07/15/2016 – 07/20/2016
Issue Date	:	09/12/2016
Test Result	:	☒ Pass ☐ Fail
Equipment complied with the specification [X] Equipment did not comply with the specification []		

This Test Report is Issued Under the Authority of:	
	
Rachana Khanduri	Chen Ge
Test Engineer	Engineer Reviewer
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Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA



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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRR, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	MOC, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_RF_SL16032801-RUC-008A1_UNII	None	Original	09/06/2016
FCC_RF_SL16032801-RUC-008A1_UNII_Rev 1.0	Rev 1.0	Updated Radio Description	09/12/2016

2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company: Ruckus Wireless, Inc.
Product: ZoneFlex T610 Access Point
Model: T610

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	:	Ruckus Wireless, Inc.
Applicant Address	:	350 West Java Drive, Sunnyvale, California 94089 U.S.A
Manufacturer Name	:	Ruckus Wireless, Inc.
Manufacturer Address	:	350 West Java Drive, Sunnyvale, California 94089 U.S.A

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	881796
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name	ZoneFlex T610 Access Point
Model No.	T610
Trade Name	Ruckus
Serial No.	271604004848
Host Model No.	N/A
Input Power	100Vac-240Vac 50-60Hz / 48VDC 1.0A (PoE)
Poe Power Adapter Manu/Model	Ruckus Wireless, Inc. / GRT-480125A(740-64216-001)
AC/DC Power Adapter SN	N/A
PoE Power Adapter SN	20150129
Product Hardware version	705-60425-001
Product Software version	812-72410-002
Radio Hardware version	705-60425-001
Radio Software version	812-72410-002
Test Software version	117-11325-001
Date of EUT received	07/09/2015
Equipment Class/ Category	DTS, UNII
Clock Frequencies	N/A
Port/Connectors	PoE, Ethernet

6.2 Radio Description

Radio Type	802.11a	802.11n-20M	802.11n-40M	802.11ac-80M
Operating Frequency	5260-5320MHz 5500-5720MHz	5260-5320MHz 5500-5720MHz	5270-5310MHz 5510-5710MHz	5290MHz, 5530MHz 5610MHz, 5690MHz
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing	20MHz	20MHz	40MHz	80MHz
Number of Channels	16	16	6	4
Antenna Type	Internal Omnidirectional Antenna			
Antenna Gain (Peak)	2.4GHz: Horizontal 1dBi, Vertical 2.5dBi 5GHz: Horizontal 2dBi, Vertical 3.5dBi			
Antenna Connector Type	U.FL			
Note	EUT has 4 antennas, 2 antennas are in horizontal polarity, and 2 antennas in vertical polarity. The 802.11b/g/a is in CDD mode with all 4 antenna transmit simultaneously. Since they're in 90 deg phase shift between the horizontal and vertical antennas, for radiated limit, the result from different polarization antenna will not be combined. So only the result for 2 vertical polarity antennas and 2 horizontal polarity antennas will be combined for MIMO mode separately. For Cross-polarized antenna, the total gain—including array gain—is computed separately for each of polarizations using the procedures presented in this document. The highest of the total gains shall apply. For this case, the highest of the total gain will be the directional gain of 2 antennas. For conducted limit like power and psd, the result from all 4 chains will be summed. For 802.11b/g/a mode under CDD mode, the array gain for power will be 0 and for PSD will be 10 log (Nant/Nss) dB to be calculated separately for horizontal and vertical polarity. Reference to the following KDB for clarification. 662911 D01 Multiple Transmitter Output v02r01 662911 D02 MIMO with Cross-Polarized Antennas v01			

EUT Power level setting

Mode	Frequency	Power Setting
802.11-a	5260	17
802.11-a	5280	17
802.11-a	5320	17
802.11-n-20	5260	17
802.11-n-20	5280	17
802.11-n-20	5320	17
802.11-n-40	5270	17
802.11-n-40	5310	17
802.11-ac-80	5290	17
802.11-a	5550	17
802.11-a	5580	17
802.11-a	5700	17
802.11-n-20	5500	17
802.11-n-20	5580	17
802.11-n-20	5700	17
802.11-n-40	5510	17
802.11-n-40	5590	17
802.11-n-40	5670	17
802.11-ac-80	5530	17
802.11-ac-80	5610	17

CROSS Band channels power setting

Mode	Frequency	Power Setting
802.11-a	5720	17
802.11-n-20	5720	17
802.11-n-40	5710	17
802.11-ac-80	5690	17

Note: All data rate has been verified and worst case was used for all test items.

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	PP01L Latitude E5440	F1WPF12	Dell	-
2	POE Adapter	740-64157-001	133279963	Ruckus	-

7.2 Cabling Description

Name	Connection Start		Connection Stop		Length / shielding Info		Note
	From	I/O Port	To	I/O Port	Length (m)	Shielding	
RJ45	EUT	RJ45	POE	RJ45	2	Unshielded	-
RJ45	POE	RJ45	Laptop	RJ45	3	Unshielded	-

7.3 Test Software Description

Test Item	Software	Description
RF Testing	Command Line in windows	Set the EUT to transmit continuously in diferent test mode

8 Test Summary

Test Item	Test standard		Test Method/Procedure	Pass / Fail
Restricted Band of Operation	FCC	15.205	ANSI C63.4 – 2014 789033 D02 General UNII Test Procedures New Rules v01	☒ Pass ☐ N/A
AC Conducted Emissions Voltage	FCC	15.207(a)	ANSI C63.4 – 2014	☒ Pass ☐ N/A

Test Item	Test standard		Test Method/Procedure	Pass / Fail
26 & 6 dB Emission Bandwidth	FCC	15.407 (a) (2)	789033 D02 General UNII Test Procedures New Rules v01	☒ Pass ☐ N/A
Maximum conducted Output Power	FCC	15.407 (a) (2)	789033 D02 General UNII Test Procedures New Rules v01	☒ Pass ☐ N/A
Power reduction (Antenna Gain > 6 dBi)	FCC	15.407 (a) (2)	-	☐ Pass ☒ N/A
Band Edge and Radiated Spurious Emissions	FCC	15.407(b)(2), 15.407(b)(6)	ANSI C63.4 – 2014 789033 D02 General UNII Test Procedures New Rules v01	☒ Pass ☐ N/A
Power Spectral Density	FCC	15.407 (a) (2)	789033 D02 General UNII Test Procedures New Rules v01	☒ Pass ☐ N/A
Frequency Stability	FCC	15.407 (g)	-	☐ Pass ☒ N/A
Transmit Power Control (TPC)	FCC	15.407 (h)(1)	-	☐ Pass ☒ N/A
User Manual	FCC	-	-	☒ Pass ☐ N/A

Remark	- All measurement uncertainties are not taken into consideration for all presented test result. - The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.
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9 Measurement Uncertainty

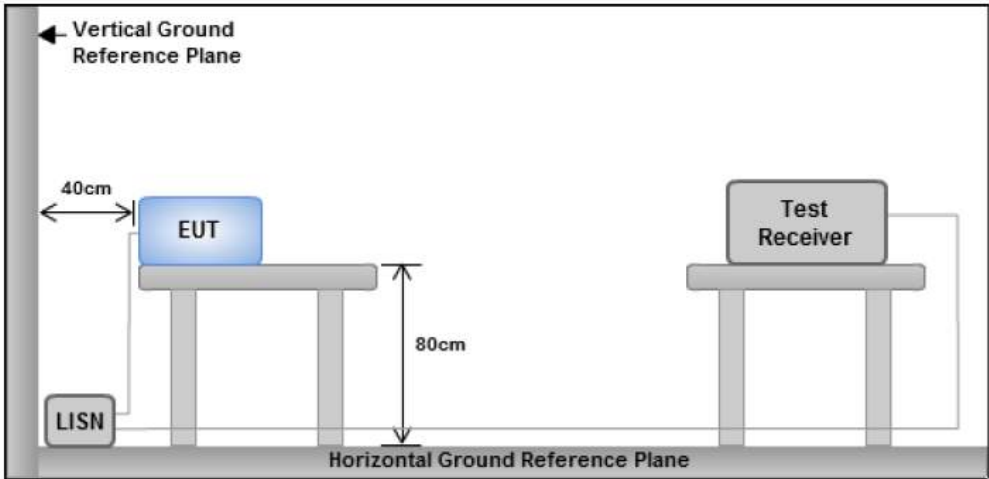
Emissions			
Test Item	Frequency Range	Description	Uncertainty
AC Conducted Emissions	150KHz – 30MHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±3.5dB
Band Edge and Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
Band Edge and Radiated Spurious Emissions	1GHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+4.3dB/-4.1dB

10 Measurements, Examination and Derived Results

10.1 Conducted Emissions

Conducted Emission Limit

Frequency ranges (MHz)	Limit (dBuV)	
	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

Spec	Item	Requirement	Applicable
47CFR§15.207	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	☒
Test Setup	 Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes		
Procedure	- The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B. - The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains. - The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. - All other supporting equipment was powered separately from another main supply.		
Remark	EUT tested with AC 120V 60Hz		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

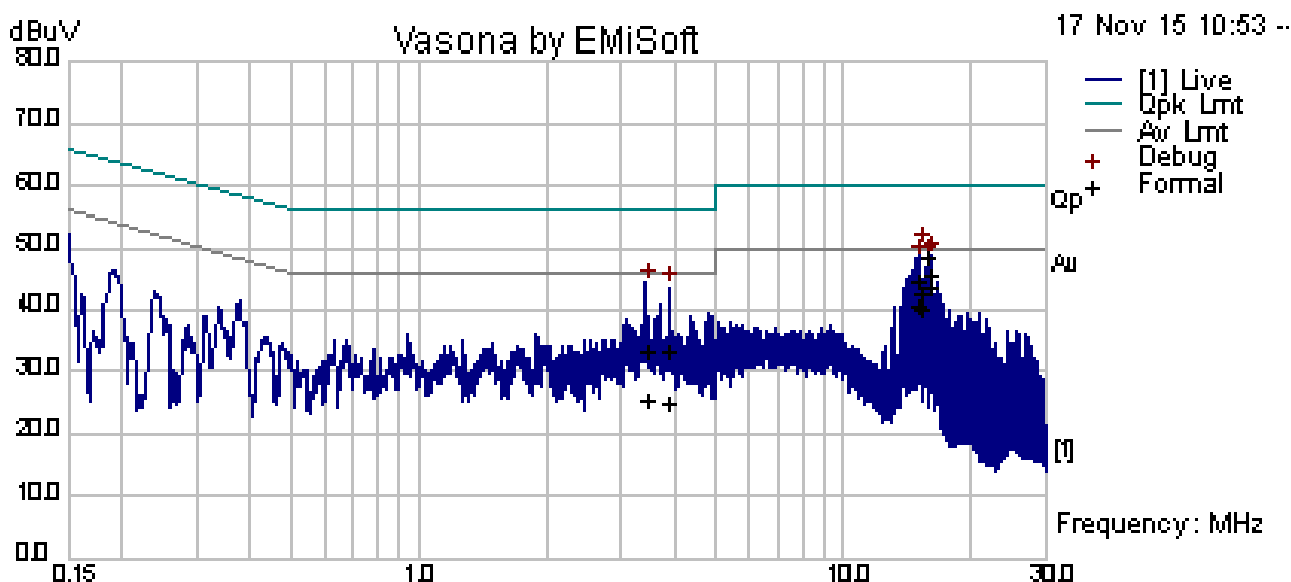
Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Gary Chou at *Conducted Emission Test Site*.

Conducted Emission Test Results (Line)

Test specification:	Conducted Emissions			
Environmental Conditions:	Temp(°C):	22.2	Result:	☒ Pass ☐ Fail
	Humidity (%):	37.1		
	Atmospheric(mbar):	1020.5		
Mains Power:	120Vac, 60Hz			
Tested by:	Gary Chou			
Test Date:	11/17/2015			
Remarks:	Line – Tested with AC Line Power Cord			

AC Line – Line Plot @ 120V 60Hz



AC Line - Line Measurements @ 120V 60Hz

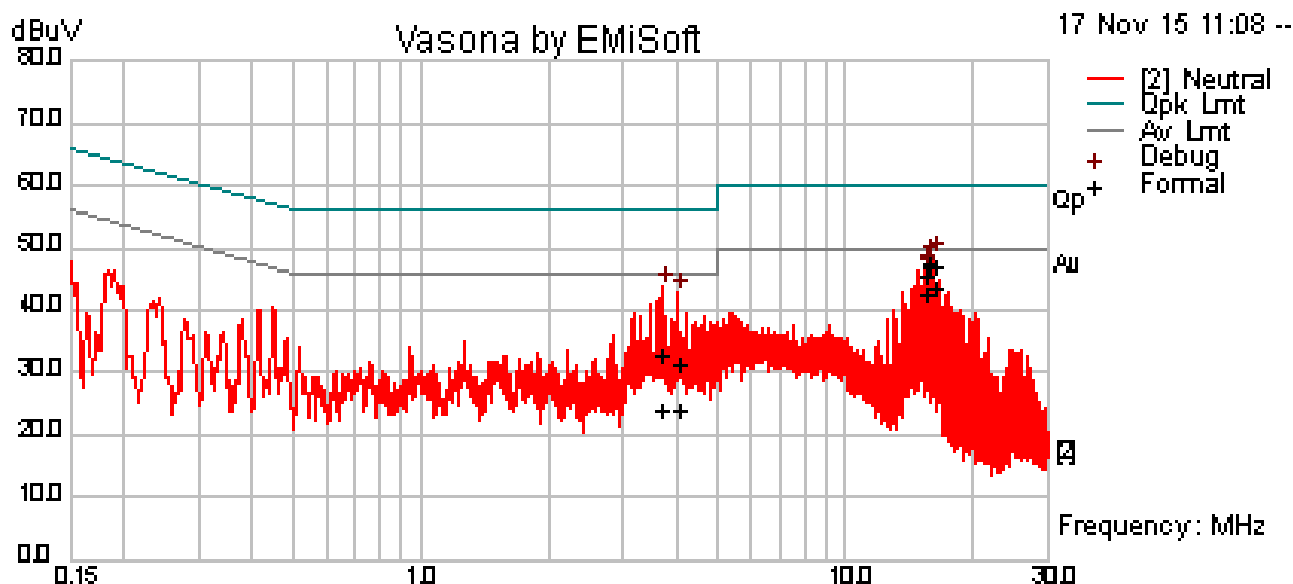
Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line/ Neutral	Limit (dBuV)	Margin (dB)	Pass /Fail
15.16	32.11	10.06	0.60	42.77	Quasi Peak	Line	60.00	-17.23	Pass
16.11	35.03	10.06	0.62	45.71	Quasi Peak	Line	60.00	-14.29	Pass
3.43	22.84	10.03	0.55	33.42	Quasi Peak	Line	56.00	-22.58	Pass
14.85	33.91	10.06	0.60	44.57	Quasi Peak	Line	60.00	-15.43	Pass
15.80	38.06	10.06	0.62	48.73	Quasi Peak	Line	60.00	-11.27	Pass
3.90	22.92	10.03	0.55	33.50	Quasi Peak	Line	56.00	-22.50	Pass
15.16	29.52	10.06	0.60	40.18	Average	Line	50.00	-9.82	Pass
16.11	32.89	10.06	0.62	43.57	Average	Line	50.00	-6.43	Pass
3.43	14.97	10.03	0.55	25.55	Average	Line	46.00	-20.45	Pass
14.85	29.94	10.06	0.60	40.60	Average	Line	50.00	-9.40	Pass
15.80	37.70	10.06	0.62	48.38	Average	Line	50.00	-1.62	Pass*
3.90	14.59	10.03	0.55	25.17	Average	Line	46.00	-20.83	Pass

Pass*: The margin is within the measurement uncertainty.

Conducted Emission Test Results (Neutral)

Test specification:	Conducted Emissions			
Environmental Conditions:	Temp(°C):	22.2	Result:	☒ Pass ☐ Fail
	Humidity (%):	37.1		
	Atmospheric(mbar):	1020.5		
Mains Power:	120Vac, 60Hz			
Tested by:	Gary Chou			
Test Date:	11/17/2015			
Remarks:	Neutral – Tested with AC Line Power Cord			

AC Line – Neutral Plot @ 120V 60Hz



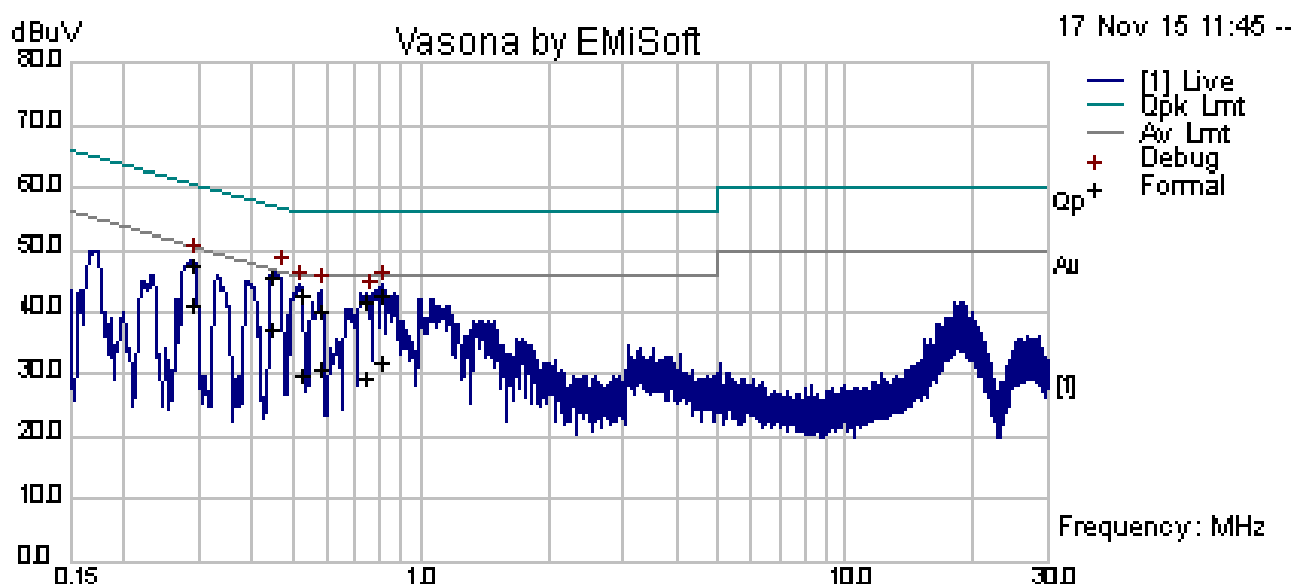
AC Line - Neutral Measurements @ 120V 60Hz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line/ Neutral	Limit (dBuV)	Margin (dB)	Pass /Fail
16.14	36.45	10.06	0.62	47.13	Quasi Peak	Neutral	60.00	-12.87	Pass
15.80	36.86	10.06	0.62	47.54	Quasi Peak	Neutral	60.00	-12.46	Pass
3.71	22.51	10.03	0.55	33.09	Quasi Peak	Neutral	56.00	-22.91	Pass
4.06	20.97	10.03	0.55	31.55	Quasi Peak	Neutral	56.00	-24.45	Pass
15.48	35.04	10.06	0.61	45.71	Quasi Peak	Neutral	60.00	-14.29	Pass
15.40	34.96	10.06	0.61	45.63	Quasi Peak	Neutral	60.00	-14.37	Pass
16.14	33.11	10.06	0.62	43.80	Average	Neutral	50.00	-6.20	Pass
15.80	36.53	10.06	0.62	47.20	Average	Neutral	50.00	-2.80	Pass*
3.71	13.40	10.03	0.55	23.98	Average	Neutral	46.00	-22.02	Pass
4.06	13.23	10.03	0.55	23.82	Average	Neutral	46.00	-22.18	Pass
15.48	32.03	10.06	0.61	42.70	Average	Neutral	50.00	-7.30	Pass
15.40	32.06	10.06	0.61	42.73	Average	Neutral	50.00	-7.27	Pass

Pass*: The margin is within the measurement uncertainty.

Conducted Emission Test Results (Line)

Test specification:	Conducted Emissions			
Environmental Conditions:	Temp(°C):	21	Result:	☒ Pass ☐ Fail
	Humidity (%):	42		
	Atmospheric(mbar):	1021		
Mains Power:	120Vac, 60Hz			
Tested by:	Gary Chou			
Test Date:	11/17/2015			
Remarks	Line – Tested with Poe			

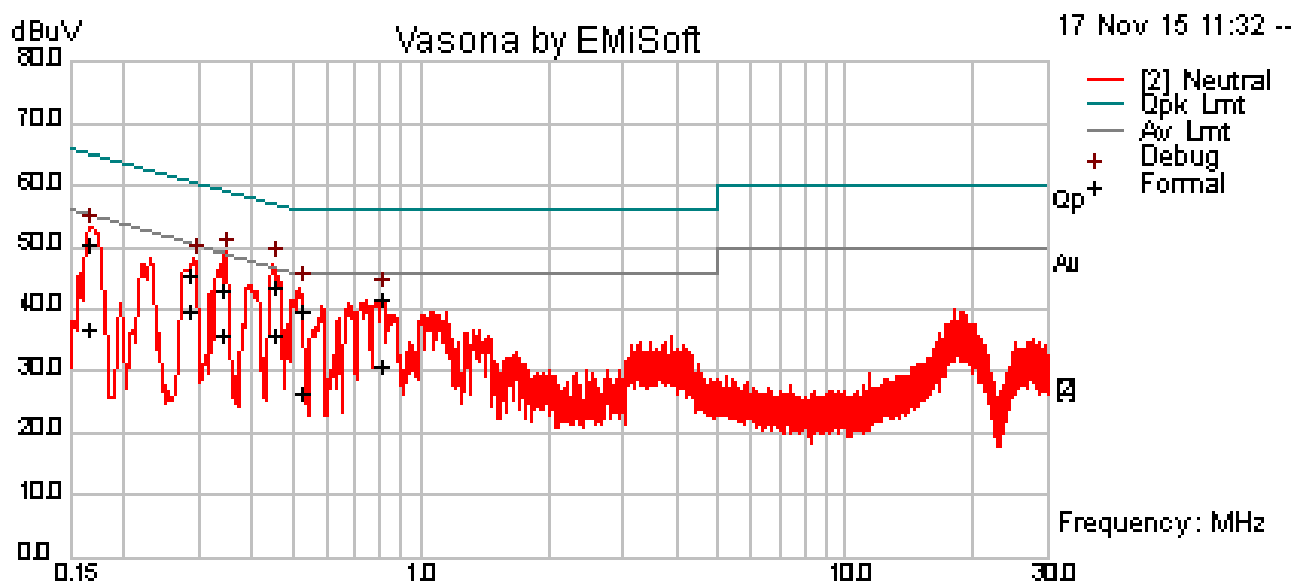


Live Line Plot at 120Vac, 60Hz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
0.45	34.77	10.01	0.71	45.49	Quasi Peak	Line	56.90	-11.41	Pass
0.81	31.99	10.01	0.60	42.60	Quasi Peak	Line	56.00	-13.40	Pass
0.53	32.18	10.01	0.67	42.86	Quasi Peak	Line	56.00	-13.14	Pass
0.29	36.72	10.00	0.94	47.66	Quasi Peak	Line	60.51	-12.85	Pass
0.58	29.70	10.01	0.65	40.35	Quasi Peak	Line	56.00	-15.65	Pass
0.74	30.86	10.01	0.61	41.48	Quasi Peak	Line	56.00	-14.52	Pass
0.45	26.69	10.01	0.71	37.41	Average	Line	46.90	-9.49	Pass
0.81	21.06	10.01	0.60	31.67	Average	Line	46.00	-14.33	Pass
0.53	19.15	10.01	0.67	29.83	Average	Line	46.00	-16.17	Pass
0.29	30.08	10.00	0.94	41.02	Average	Line	50.51	-9.50	Pass
0.58	20.03	10.01	0.65	30.68	Average	Line	46.00	-15.32	Pass
0.74	19.00	10.01	0.61	29.62	Average	Line	46.00	-16.38	Pass

Conducted Emission Test Results (Neutral)

Test specification:	Conducted Emissions			
Environmental Conditions:	Temp(°C):	21	Result:	☒ Pass ☐ Fail
	Humidity (%):	42		
	Atmospheric(mbar):	1021		
Mains Power:	120Vac, 60Hz			
Tested by:	Gary Chou			
Test Date:	11/17/2015			
Remarks	Neutral – Tested with Poe			



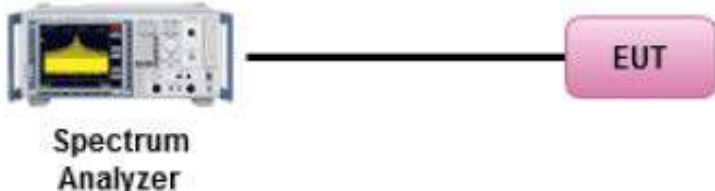
Neutral Line@ 120Vac, 60Hz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
0.45	32.91	10.01	0.71	43.63	Quasi Peak	Neutral	56.84	-13.21	Pass
0.34	32.32	10.01	0.83	43.16	Quasi Peak	Neutral	59.22	-16.06	Pass
0.17	38.90	10.00	1.59	50.50	Quasi Peak	Neutral	65.14	-14.64	Pass
0.28	34.48	10.00	0.95	45.43	Quasi Peak	Neutral	60.68	-15.25	Pass
0.53	29.23	10.01	0.67	39.91	Quasi Peak	Neutral	56.00	-16.09	Pass
0.81	30.99	10.01	0.60	41.60	Quasi Peak	Neutral	56.00	-14.40	Pass
0.45	25.11	10.01	0.71	35.83	Average	Neutral	46.84	-11.01	Pass
0.34	25.19	10.01	0.83	36.03	Average	Neutral	49.22	-13.19	Pass
0.17	25.06	10.00	1.59	36.66	Average	Neutral	55.14	-18.48	Pass
0.28	28.89	10.00	0.95	39.85	Average	Neutral	50.68	-10.84	Pass
0.53	15.95	10.01	0.67	26.63	Average	Neutral	46.00	-19.37	Pass
0.81	20.22	10.01	0.60	30.83	Average	Neutral	46.00	-15.17	Pass

Note: The results above show only the worst case.

10.2 6dB & 26 dB Bandwidth

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.407	-	26 dB Emission BW: Report only for reference.	☒
		6 dB Emission BW: Report only for reference(Cross Band)	☒
	a) (2)	26 dB Emission BW: Report only for power limit calculation.	☐
Test Setup			
Test Procedure	789033 D02 General UNII Test Procedures New Rules v01 <u>26dB Emission bandwidth measurement procedure (Other than 5.725-5.85 GHz)</u> - Use the spectrum analyzer built-in measurement function to determine the 26dB BW. - o Set RBW = around 1% of emission bandwidth - o Set VBW > RBW - o Detector = Peak - o Trace mode = max hold - Allow the trace to stabilize. - Capture the plot. - Repeat above steps for different test channel and other modulation type. <u>6dB Emission bandwidth measurement procedure</u> - Use the spectrum analyzer built-in measurement function to determine the 26dB BW. - o Set RBW = 100kHz - o Set VBW > 3RBW - o Detector = Peak - o Trace mode = max hold - Allow the trace to stabilize. - Capture the plot. - Repeat above steps for different test channel and other modulation type.		
Test Date	11/25/2015	Environmental condition	Temperature 23°C Relative Humidity 42% Atmospheric Pressure 1021mbar
Remark	N/A		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes ☐ N/A

Test was done by Gary Chou at RF Test Site.

26dB Bandwidth measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Result (MHz)
26dB BW	802.11a	5260	Low	18.61
26dB BW	802.11a	5280	Mid	19.02
26dB BW	802.11a	5320	High	18.68
26dB BW	802.11n-20	5260	Low	19.72
26dB BW	802.11n-20	5280	Mid	19.45
26dB BW	802.11n-20	5320	High	19.67
26dB BW	802.11n-40	5270	Low	38.26
26dB BW	802.11n-40	5310	High	38.14
26dB BW	802.11ac-80	5290	Mid	83.92

26dB Bandwidth measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Result (MHz)
26dB BW	802.11a	5500	Low	18.76
26dB BW	802.11a	5580	Mid	18.59
26dB BW	802.11a	5700	High	18.17
26dB BW	802.11n-20	5500	Low	19.86
26dB BW	802.11n-20	5580	Mid	19.76
26dB BW	802.11n-20	5700	High	19.95
26dB BW	802.11n-40	5510	Low	39.05
26dB BW	802.11n-40	5590	Mid	38.50
26dB BW	802.11n-40	5670	High	38.41
26dB BW	802.11ac-80	5530	Low	82.29

26dB Bandwidth measurement result for cross channels

Type	Test mode	Freq (MHz)	CH	Result (MHz)
26dB BW	802.11a	5720	CROSS	18.37
26dB BW	802.11n-20	5720	CROSS	19.76
26dB BW	802.11n-40	5710	CROSS	38.34
26dB BW	802.11ac-80	5690	CROSS	82.46

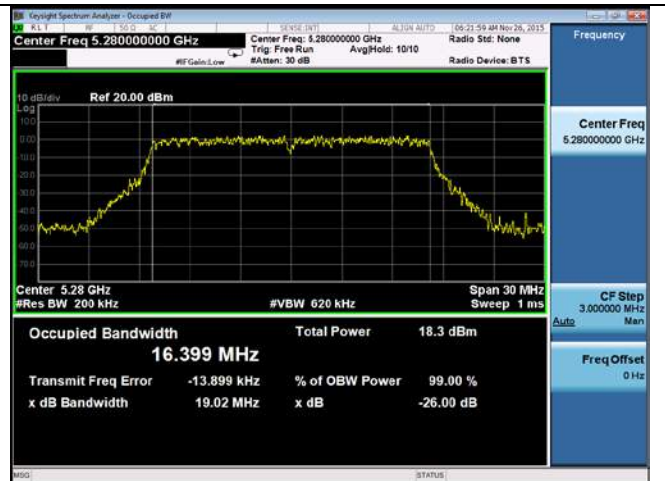
6 Bandwidth measurement result for cross channels

Type	Test mode	Freq (MHz)	CH	Result (MHz)
26dB BW	802.11a	5720	CROSS	16.44
26dB BW	802.11n-20	5720	CROSS	17.55
26dB BW	802.11n-40	5710	CROSS	35.02
26dB BW	802.11ac-80	5690	CROSS	73.7

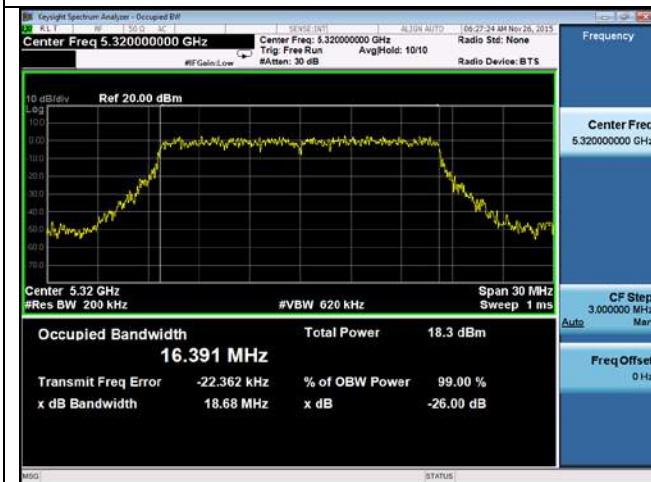
26dB Bandwidth Test Plots



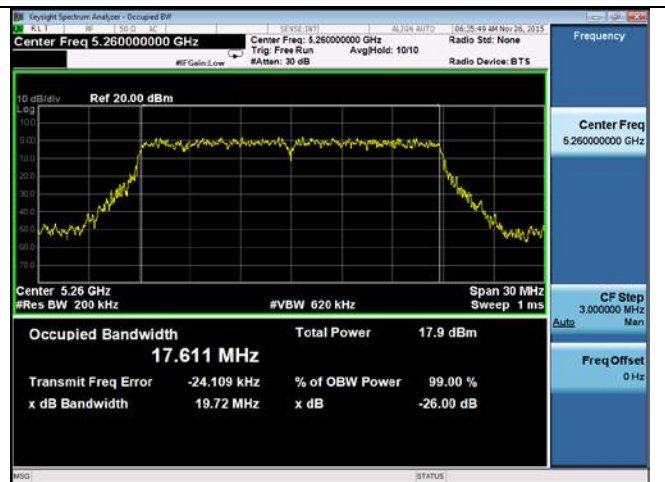
26dB BW -802.11a 5260MHz



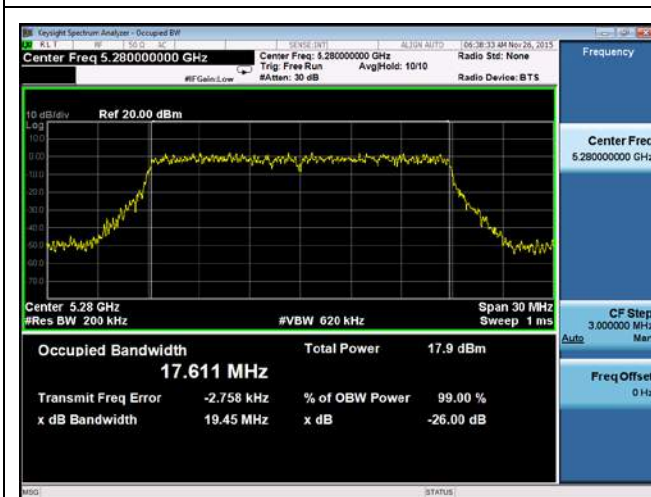
26dB BW -802.11a 5280MHz



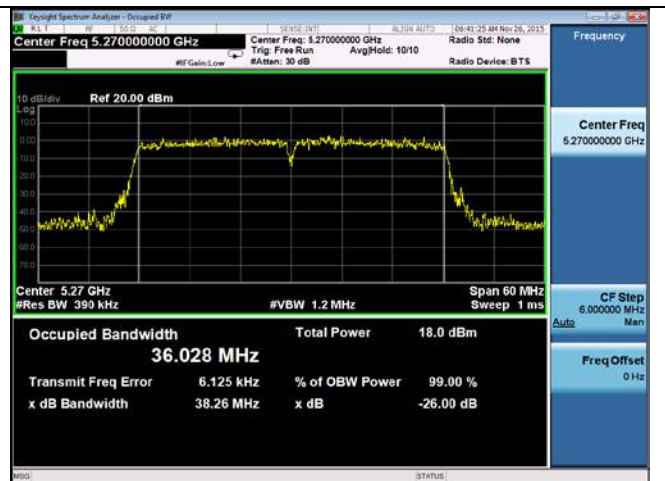
26dB BW -802.11a 5320MHz



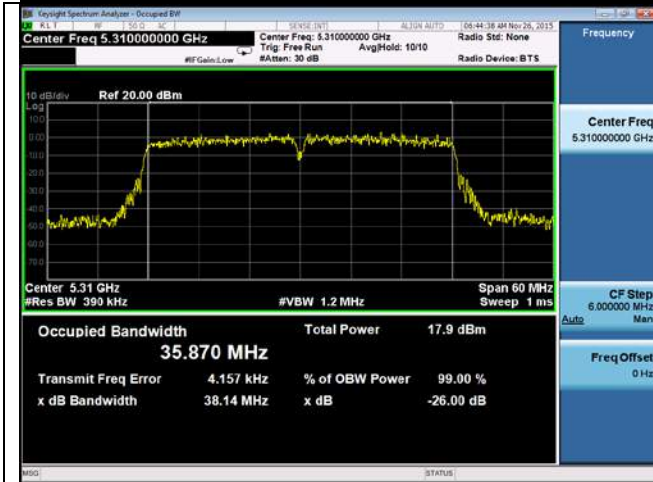
26dB BW -802.11n-20M 5260MHz



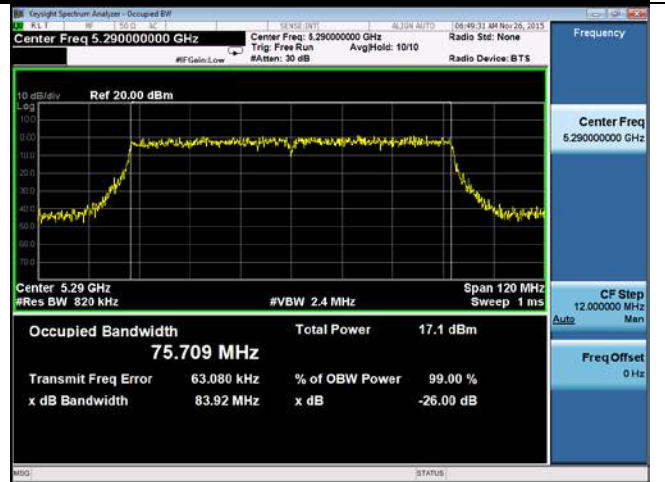
26dB BW -802.11n-20M 5280MHz



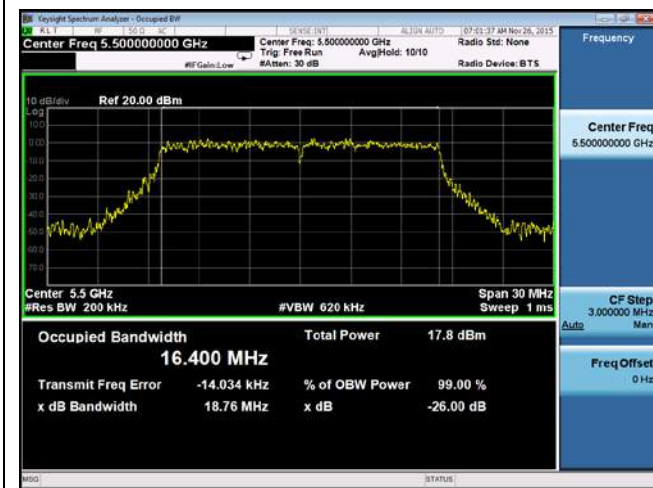
26dB BW -802.11n-40M 5270MHz



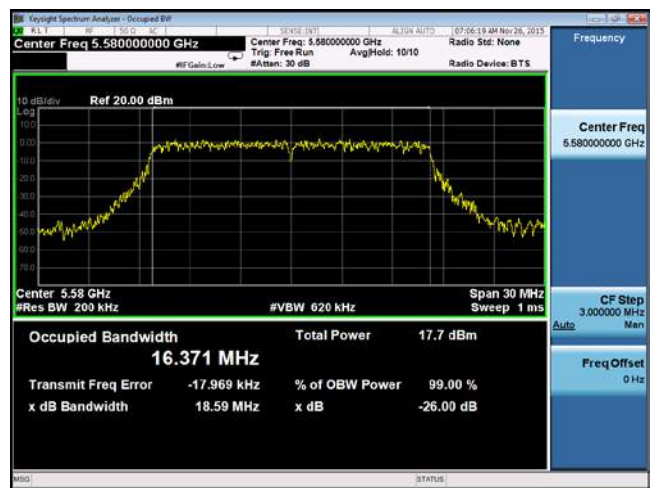
26dB BW -802.11n-40M 5310MHz



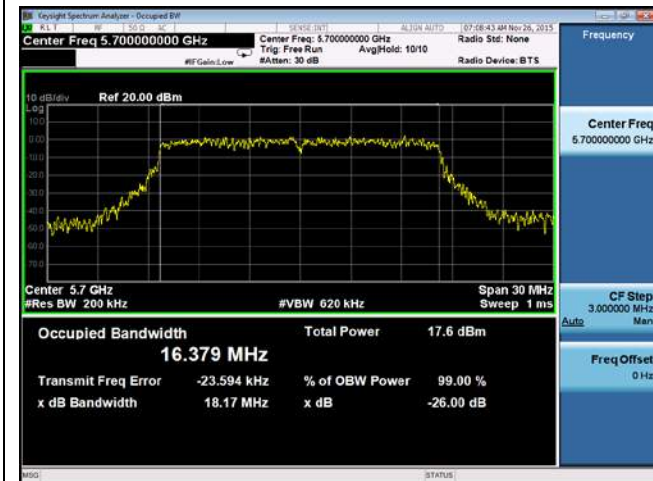
26dB BW -802.11ac-80M 5290MHz



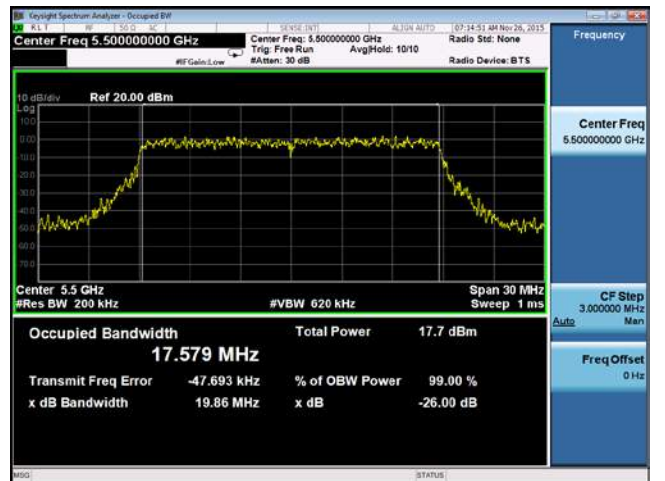
26dB BW -802.11a 5500MHz



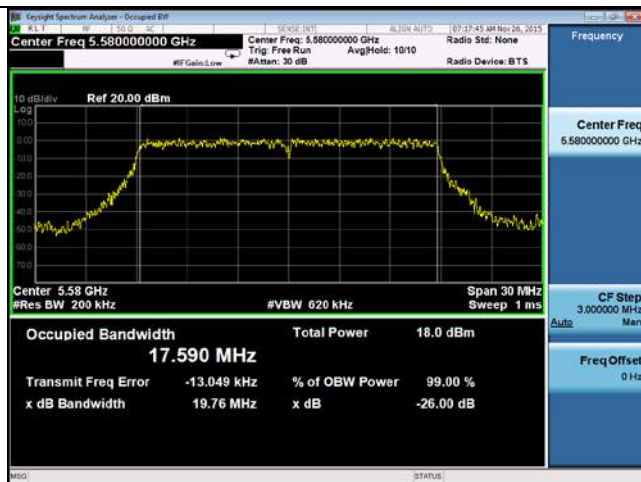
26dB BW -802.11a 5580MHz



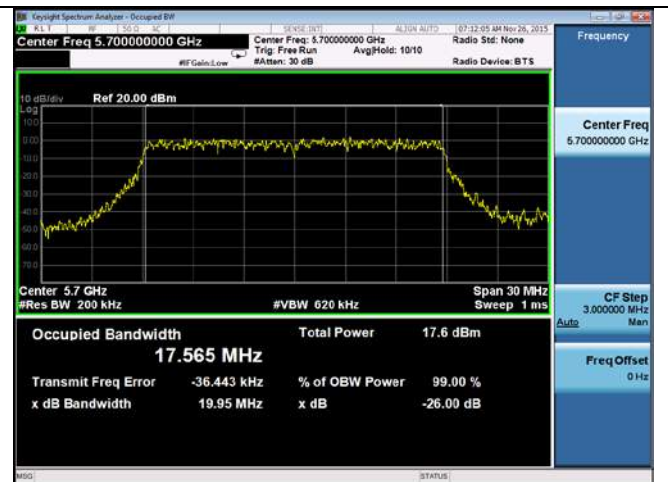
26dB BW -802.11a 5700MHz



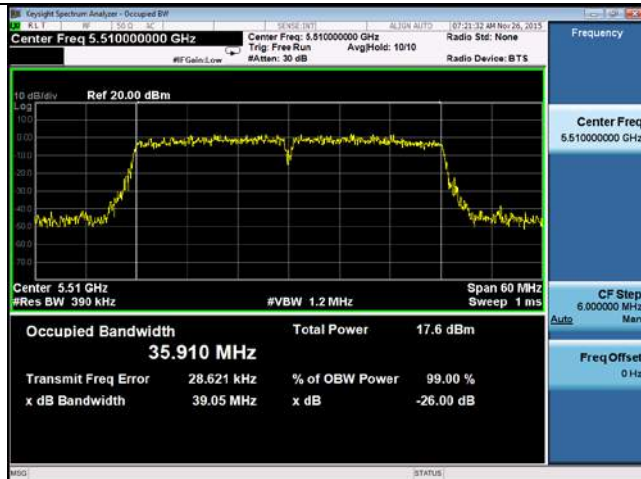
26dB BW -802.11n-20M 5500MHz



26dB BW -802.11n-20M 5580MHz



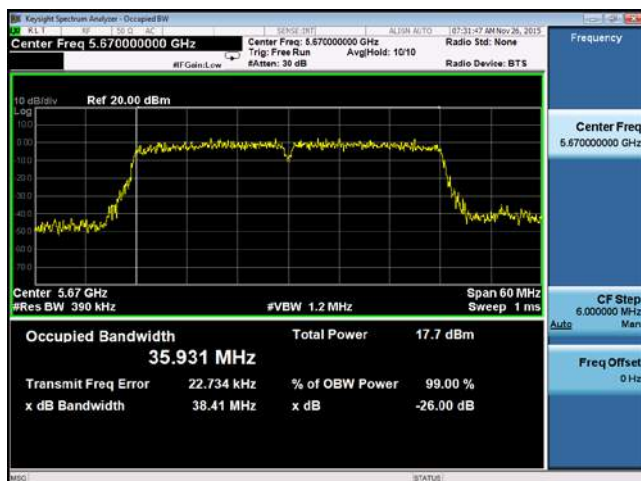
26dB BW -802.11n-20M 5700MHz



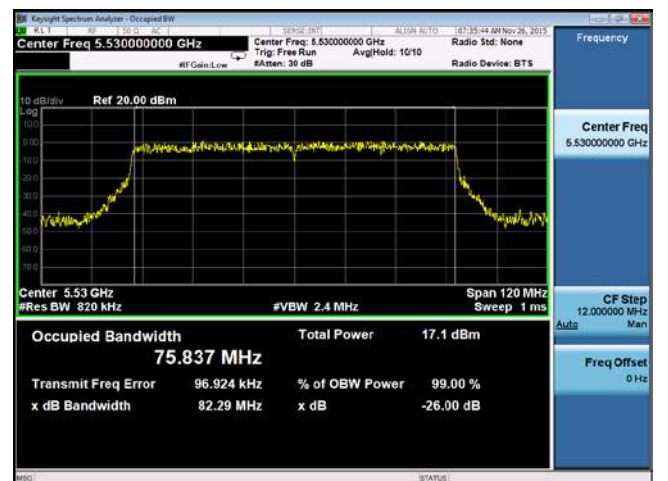
26dB BW -802.11n-40M 5510MHz



26dB BW -802.11n-40M 5550MHz



26dB BW -802.11n-40M 5670MHz



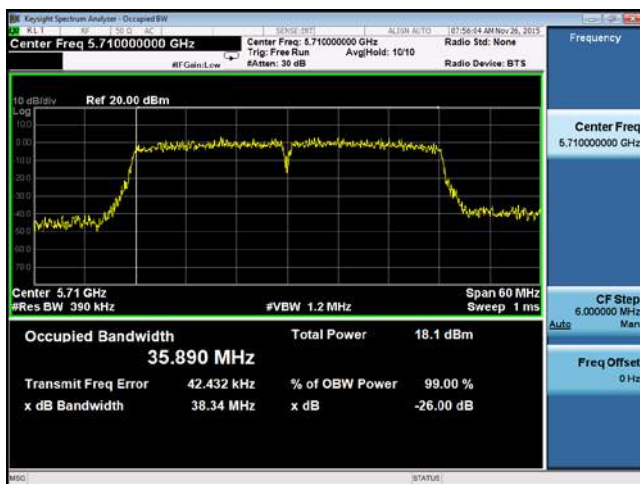
26dB BW -802.11ac-80M 5530MHz



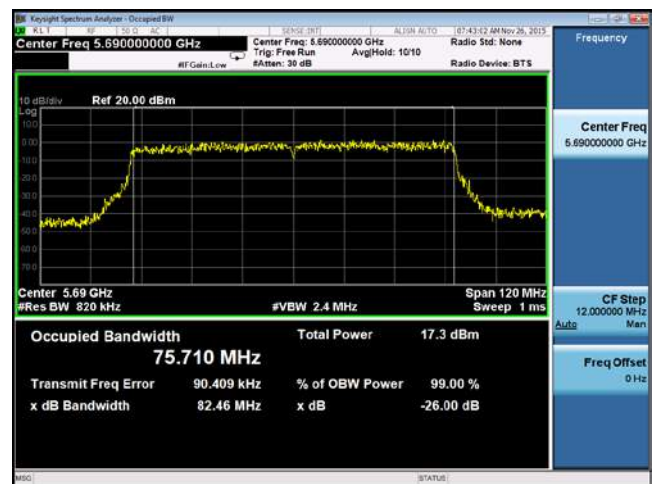
26dB BW -802.11a CROSS 5720MHz



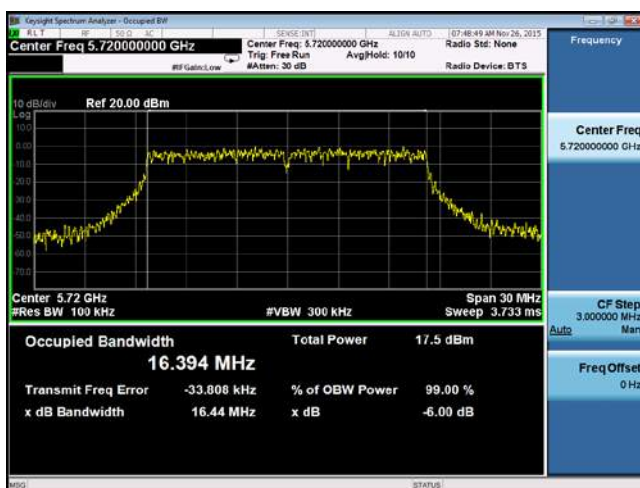
26dB BW -802.11n-20M 5720MHz



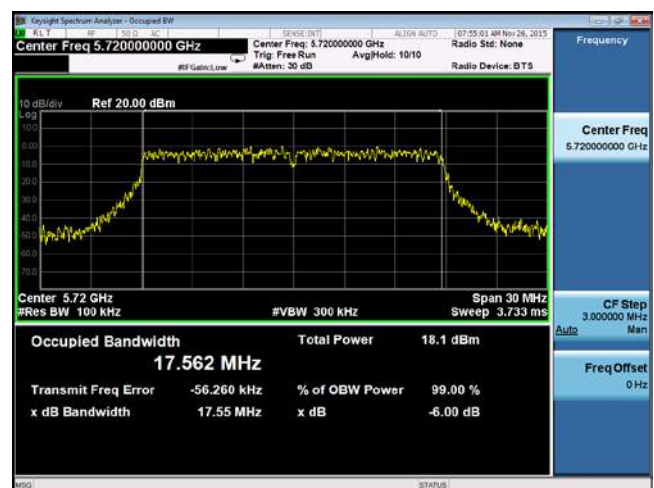
26dB BW -802.11n-40M CROSS 5710MHz



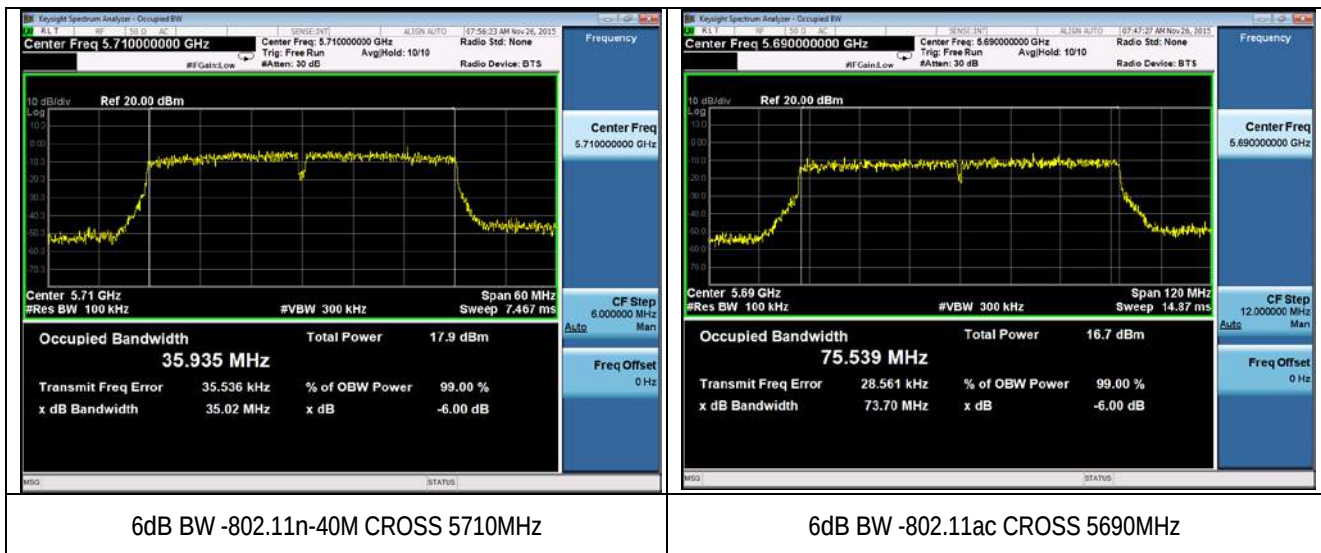
26dB BW -802.11ac CROSS 5690MHz



6dB BW -802.11a CROSS 5720MHz

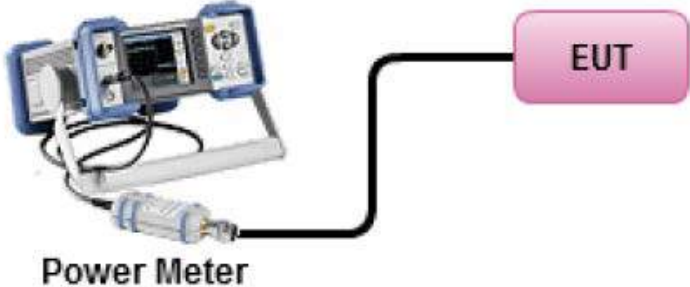


6dB BW -802.11n-20M CROSS 5720MHz



10.3 Output Power

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.407	a)(1)(i)	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).	☐
	a)(1)(ii)	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.	☐
	a)(1)(iv)	For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.	☐
	a)(2)	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.	☒
	a)(3)	For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.	☒
Test Setup			
Test Procedure	789033 D02 General UNII Test Procedures New Rules v01 <u>Measurement using a Power Meter (PM)</u> Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required. - Connect EUT's RF output power to power meter - Set EUT to be continuous transmission mode - Measurement the average output power using power meter and record the result - Repeat above steps for different test channel and other modulation type.		
Test Date	07/18/2016	Environmental condition	Temperature 21.8 °C Relative Humidity 44.6 % Atmospheric Pressure 1011.4mbar
Remark	Per KDB 662911 D01 Multiple Transmitter Output v02r01, the direction gain for horizontal polarization and vertical polarization is calculated separately. For 5Ghz band, peak antenna gain = 3.5 dBi, directional gain = 3 dB, total gain = 6.5 dBi Highest of totoal directional gain is 6.5 dBi. The power limit and PSD limit will be reduced by amount of 0.5 dB. For the Cross band channels, the output power of full bandwidth is compared to the power limit in 5.5G and 5.8G as the worst case.		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

Test was done by *Rachana Khanduri* at *RF Test Site*.

Output Power measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)					Limit (dBm)	Result
				Chain1	Chain2	Chain3	Chain4	Combined Power		
Output	802.11a	5260	Low	14.34	14.81	15.64	14.27	20.82	23.5	Pass
Output	802.11a	5280	Mid	14.45	14.82	15.82	14.34	20.92	23.5	Pass
Output	802.11a	5320	High	15.01	14.89	15.80	14.78	21.16	23.5	Pass
Output	802.11n-20M	5260	Low	14.22	14.77	15.74	14.45	20.86	23.5	Pass
Output	802.11n-20M	5280	Mid	14.33	14.79	15.84	14.45	20.92	23.5	Pass
Output	802.11n-20M	5320	High	14.91	14.87	15.85	15.08	21.22	23.5	Pass
Output	802.11n-40M	5270	Low	14.90	15.30	16.36	15.15	21.49	23.5	Pass
Output	802.11n-40M	5310	Mid	14.96	15.18	16.52	14.97	21.48	23.5	Pass
Output	802.11ac-80M	5290	High	14.42	14.85	15.68	14.28	20.86	23.5	Pass

Output Power measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)					Limit (dBm)	Result
				Chain1	Chain2	Chain3	Chain4	Combined Power		
Output	802.11a	5500	Low	13.72	13.54	14.77	13.60	19.96	23.5	Pass
Output	802.11a	5580	Mid	14.80	14.64	15.99	14.77	21.11	23.5	Pass
Output	802.11a	5700	High	14.26	14.18	14.52	14.21	20.32	23.5	Pass
Output	802.11n-20M	5500	Low	15.07	14.92	16.42	15.30	21.49	23.5	Pass
Output	802.11n-20M	5580	Mid	14.77	14.56	16.09	14.93	21.15	23.5	Pass
Output	802.11n-20M	5700	High	14.26	14.10	14.67	14.39	20.38	23.5	Pass
Output	802.11n-40M	5510	Low	15.24	14.96	16.80	15.44	21.69	23.5	Pass
Output	802.11n-40M	5550	Mid	15.39	15.14	16.82	15.49	21.78	23.5	Pass
Output	802.11n-40M	5670	High	15.00	14.75	16.06	15.11	21.28	23.5	Pass
Output	802.11ac-80M	5530	Low	14.62	14.68	16.08	14.78	21.10	23.5	Pass
Output	802.11ac-80M	5610	High	14.59	14.63	15.77	14.74	20.98	23.5	Pass

Output Power measurement result for CROSS channels (in band 5470-5725MHz)

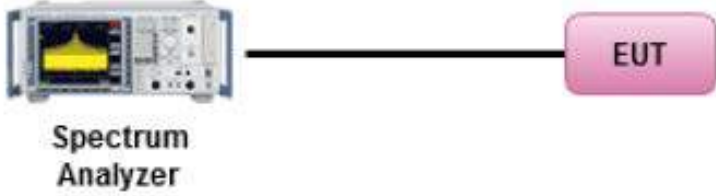
Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)					Limit (dBm)	Result
				Chain1	Chain2	Chain3	Chain4	Combined Power		
Output	802.11a	5720	CROSS	14.14	13.83	14.45	14.04	20.14	23.5	Pass
Output	802.11n-20M	5720	CROSS	14.21	13.92	14.43	14.22	20.22	23.5	Pass
Output	802.11n-40M	5710	CROSS	15.09	14.78	15.34	15.01	21.08	23.5	Pass
Output	802.11ac-80M	5690	CROSS	14.37	14.06	15.14	14.53	20.56	23.5	Pass

Output Power measurement result for CROSS channels (in band 5725-5850MHz)

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)					Limit (dBm)	Result
				Chain1	Chain2	Chain3	Chain4	Combined Power		
Output	802.11a	5720	CROSS	14.20	13.76	14.32	14.12	20.13	29.5	Pass
Output	802.11n-20M	5720	CROSS	14.21	13.93	14.55	14.28	20.27	29.5	Pass
Output	802.11n-40M	5710	CROSS	15.05	14.64	15.49	15.02	21.08	29.5	Pass
Output	802.11ac-80M	5690	CROSS	14.44	13.94	15.24	14.58	20.60	29.5	Pass

10.4 Peak Power Spectral Density

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.407	a)(1)(i)	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.	☐
	a)(1)(ii)	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.	☐
	a)(2)	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.	☒
	a)(3)	For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.	☒
Test Setup			
Test Procedure	789033 D02 General UNII Test Procedures New Rules v01, II.F. Method SA-1 <u>Maximum spectral density measurement procedure</u> - Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal. - Set RBW = 1 MHz - Set VBW ≥ 3 MHz - Detector = RMS. - Sweep time = auto couple. - Trace mode = max hold. - Trace average at least 100 traces in power averaging - Use the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.		
Test Date	07/18/2016	Environmental condition	Temperature 21.8°C Relative Humidity 44.6% Atmospheric Pressure 1011.4mbar
Remark	Per KDB 662911 D01 Multiple Transmitter Output v02r01, the direction gain for horizontal polarization and vertical polarization is calculated separately. For 5Ghz band, peak antenna gain = 3.5 dBi, directional gain = 3 dB, total gain = 6.5 dBi Highest of total gain is 6.5 dBi. The power limit and PSD limit will be reduced by amount of 0.5 dB. For the Cross band channels, the PSD of full bandwidth is compared to the PSD limit in 5.5G and 5.8G as the worst case. For 5.8GHz band, the PSD measurement on Cross band channel is using 1MHz BW as the worst case.		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by *Rachana Khanduri* at *RF Test Site*.

PSD measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)					Limit (dBm)	Result
				Chain1	Chain2	Chain3	Chain4	Combined Power		
PSD	802.11a	5260	Low	3.41	3.65	4.93	3.25	9.88	10.5	Pass
PSD	802.11a	5280	Mid	3.49	3.85	4.73	3.80	10.01	10.5	Pass
PSD	802.11a	5320	High	3.99	3.85	4.94	3.95	10.23	10.5	Pass
PSD	802.11n-20M	5260	Low	2.99	3.67	4.66	3.36	9.74	10.5	Pass
PSD	802.11n-20M	5280	Mid	3.18	3.68	4.80	3.24	9.80	10.5	Pass
PSD	802.11n-20M	5320	High	3.74	3.84	4.76	3.87	10.09	10.5	Pass
PSD	802.11n-40M	5270	Low	0.85	1.34	2.29	1.20	7.47	10.5	Pass
PSD	802.11n-40M	5310	Mid	1.07	1.43	2.38	0.90	7.50	10.5	Pass
PSD	802.11ac-80M	5290	High	-2.98	-2.70	-1.79	-3.09	3.41	10.5	Pass

PSD measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)					Limit (dBm)	Result
				Chain1	Chain2	Chain3	Chain4	Combined Power		
PSD	802.11a	5500	Low	2.43	2.42	3.39	2.54	8.74	10.5	Pass
PSD	802.11a	5580	Mid	3.89	3.87	5.03	4.17	10.29	10.5	Pass
PSD	802.11a	5700	High	3.26	3.15	3.45	3.18	9.28	10.5	Pass
PSD	802.11n-20M	5500	Low	4.05	3.97	5.41	4.33	10.50	10.5	Pass
PSD	802.11n-20M	5580	Mid	3.57	3.64	4.82	3.77	10.00	10.5	Pass
PSD	802.11n-20M	5700	High	3.05	3.01	3.26	3.10	9.13	10.5	Pass
PSD	802.11n-40M	5510	Low	1.45	0.96	2.73	1.57	7.75	10.5	Pass
PSD	802.11n-40M	5550	Mid	1.61	1.32	2.66	1.68	7.87	10.5	Pass
PSD	802.11n-40M	5670	High	1.06	0.87	2.01	1.17	7.32	10.5	Pass
PSD	802.11ac-80M	5530	Low	-2.41	-2.60	-1.43	-2.51	3.81	10.5	Pass
PSD	802.11ac-80M	5610	High	-2.35	-2.71	-1.55	-2.36	3.80	10.5	Pass

PSD measurement result for cross channels (in band 5470-5725MHz)

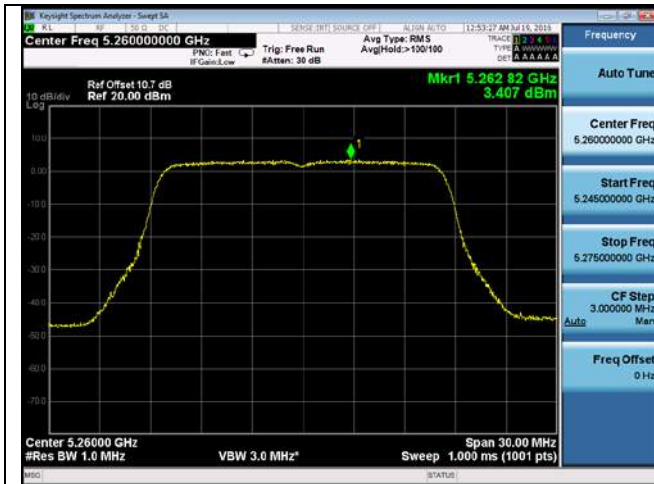
Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)					Limit (dBm)	Result
				Chain1	Chain2	Chain3	Chain4	Combined Power		
PSD	802.11a	5720	CROSS	3.25	3.02	3.42	3.25	9.26	10.5	Pass
PSD	802.11n-20M	5720	CROSS	3.01	2.75	3.26	3.14	9.06	10.5	Pass
PSD	802.11n-40M	5710	CROSS	1.19	0.70	1.31	0.95	7.06	10.5	Pass
PSD	802.11ac-80M	5690	CROSS	-2.79	-3.22	-2.23	-2.78	3.28	10.5	Pass

PSD measurement result for cross channels (in band 5725-5850MHz)

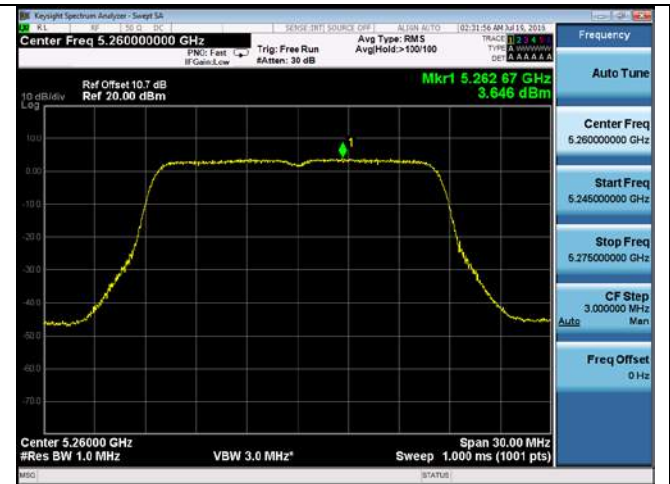
Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)					Corrected Level (dBm/500kHz)	Limit (dBm/500kHz)	Result
			Chain1	Chain2	Chain3	Chain4	Combined PSD			
802.11a	5720	CROSS	-6.47	-6.70	-6.08	-6.30	-0.36	6.63	30	Pass
802.11n-20M	5720	CROSS	-6.62	-6.88	-6.14	-6.19	-0.43	6.56	30	Pass
802.11n-40M	5710	CROSS	-9.29	-9.94	-8.49	-9.21	-3.18	3.81	30	Pass
802.11ac-80M	5690	CROSS	-12.83	-13.55	-12.58	-12.8	-6.90	0.09	30	Pass

Correction factor= $10 \cdot \log(500/100)=6.99$

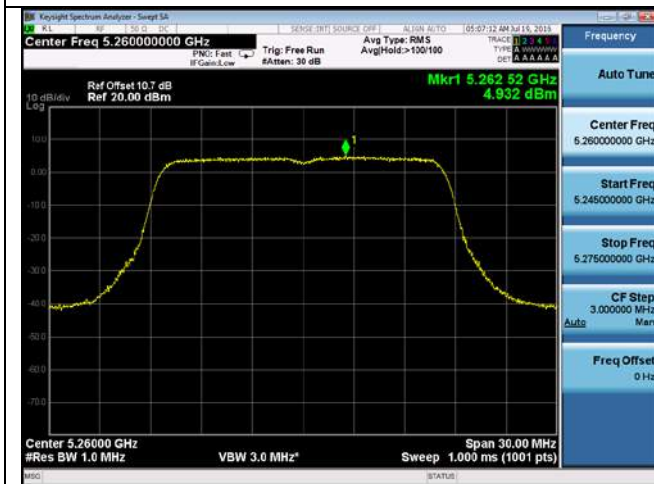
Test Plots



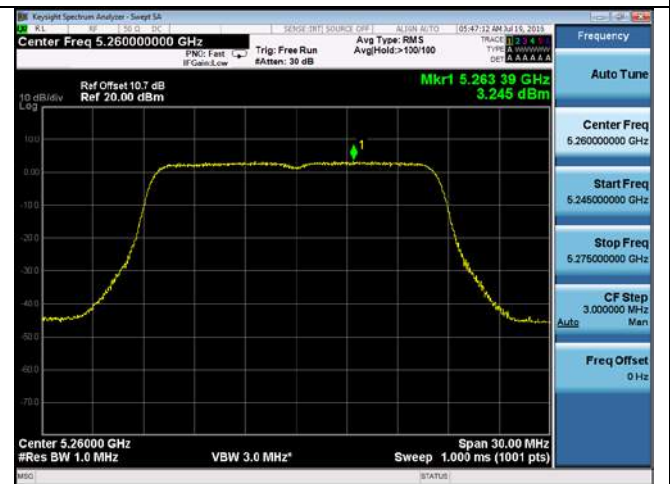
PSD-802.11a-5260M-chain1



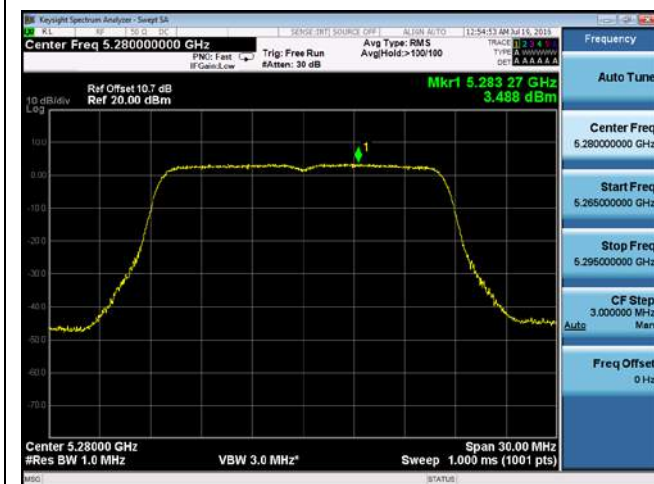
PSD-802.11a-5260M-chain2



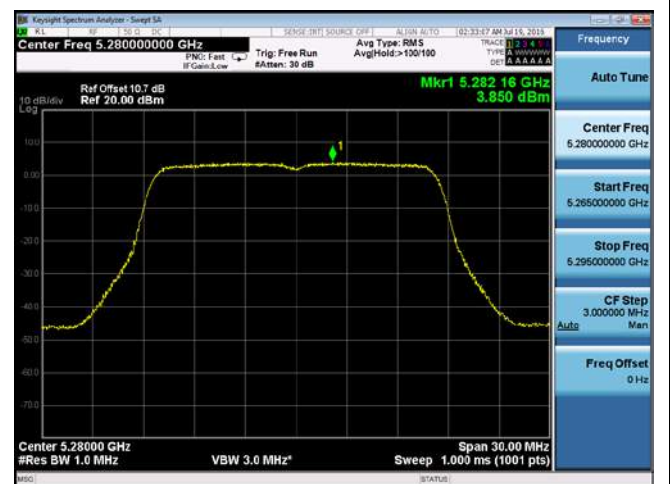
PSD-802.11a-5260M-chain3



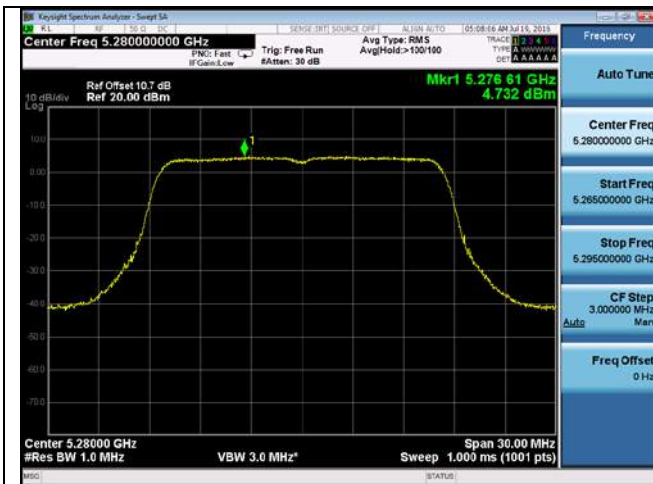
PSD-802.11a-5260M-chain4



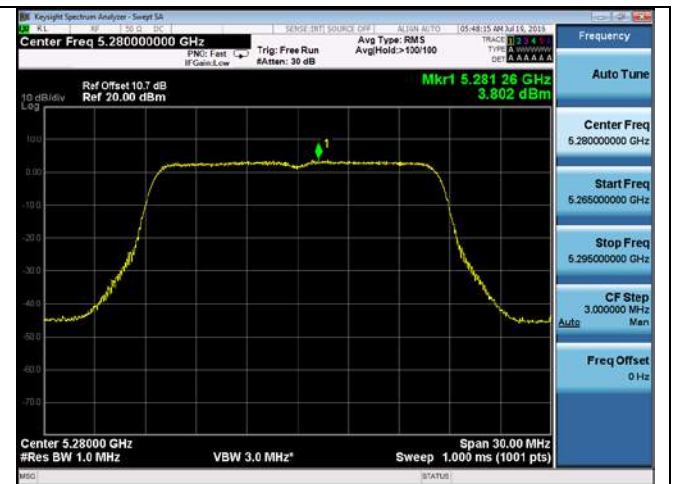
PSD-802.11a-5280M-chain1



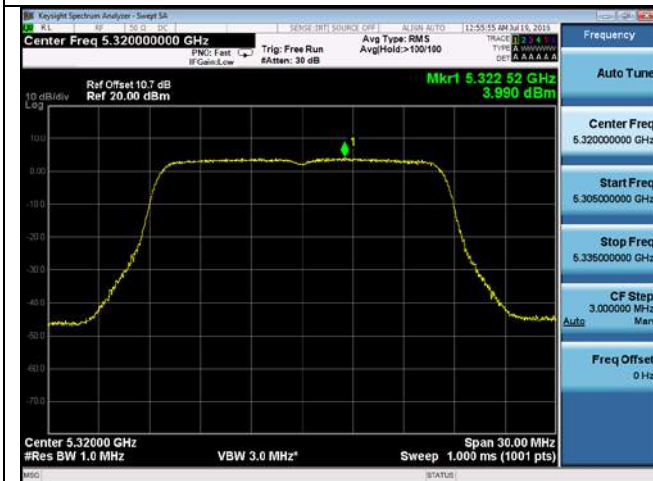
PSD-802.11a-5280M-chain2



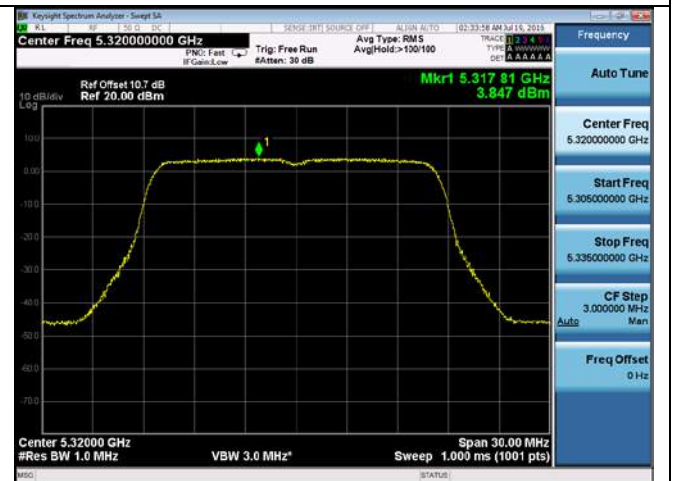
PSD-802.11a-5280M-chain3



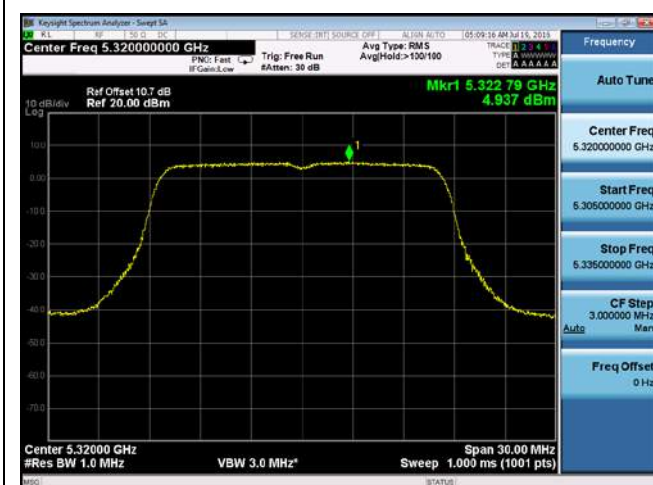
PSD-802.11a-5280M-chain4



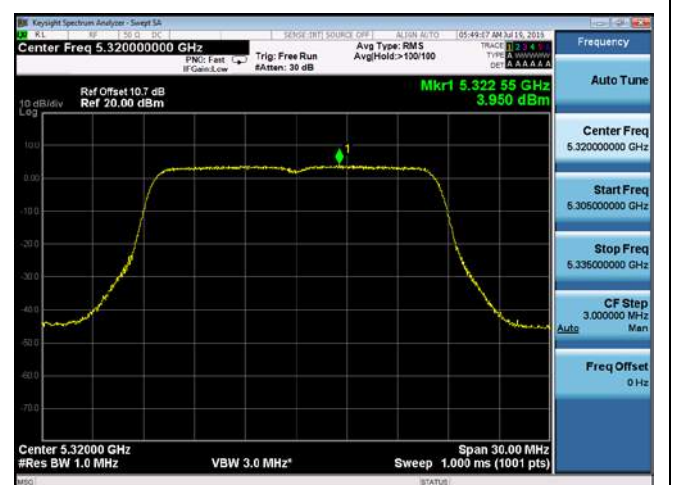
PSD-802.11a-5320M-chain1



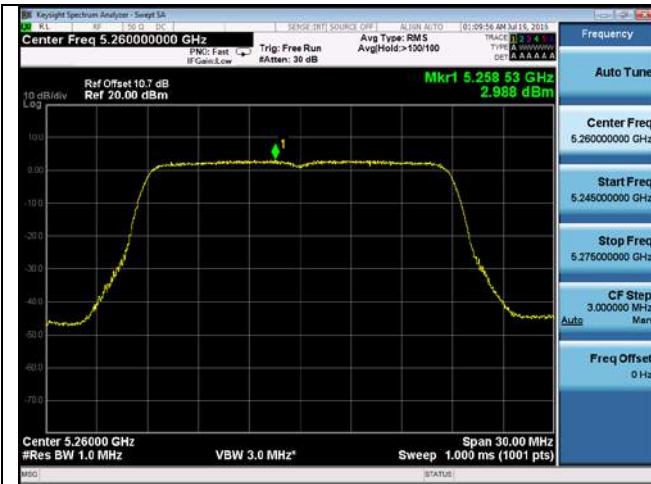
PSD-802.11a-5320M-chain2



PSD-802.11a-5320M-chain3



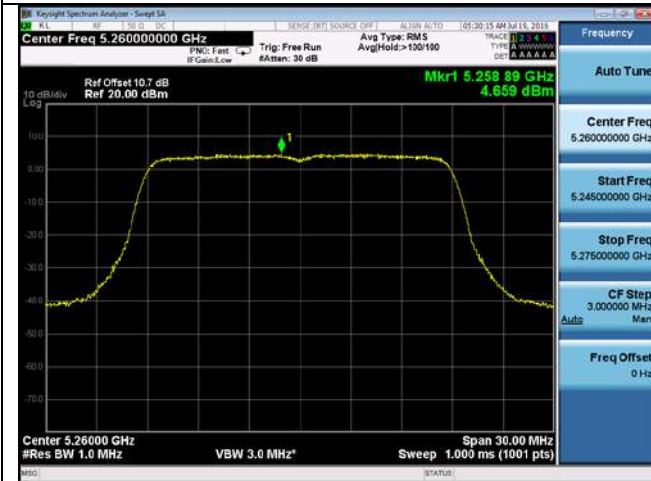
PSD-802.11a-5320M-chain4



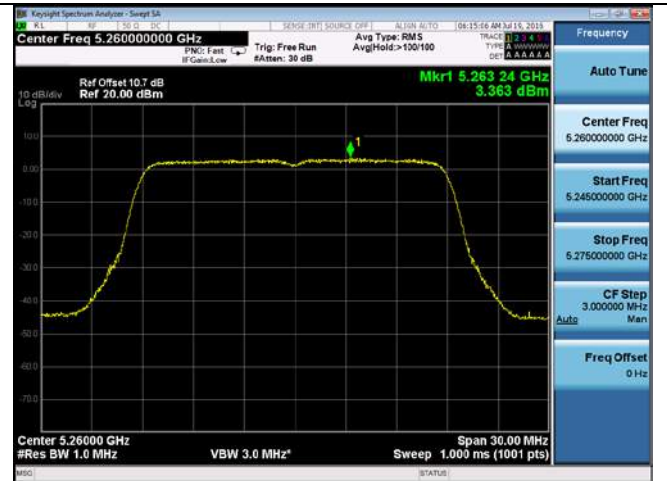
PSD-802.11n-20M-5260M-chain1



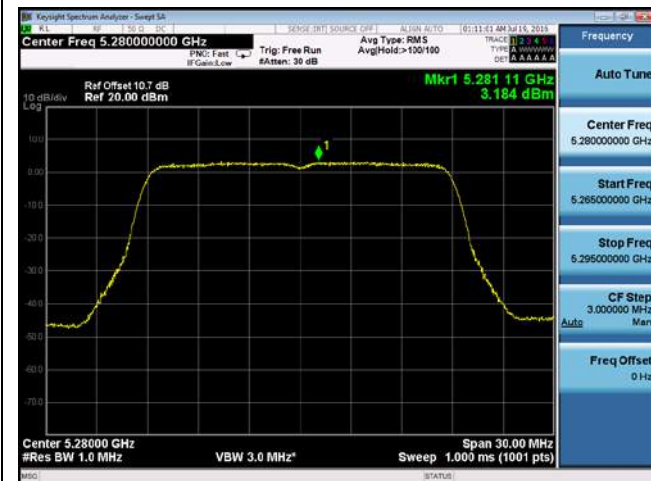
PSD-802.11n-20M-5260M-chain2



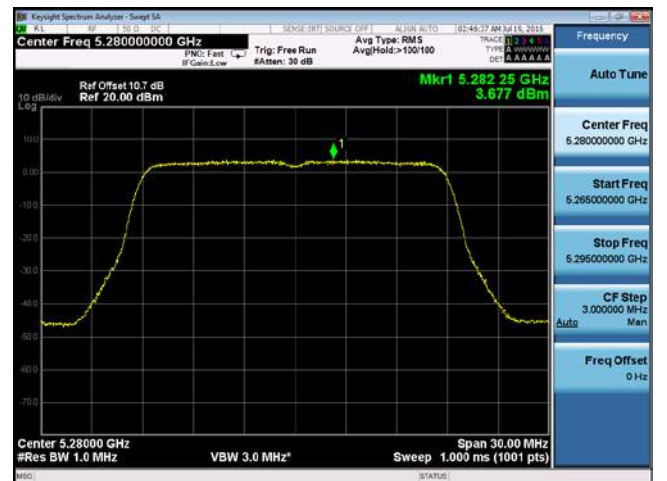
PSD-802.11n-20M-5260M-chain3



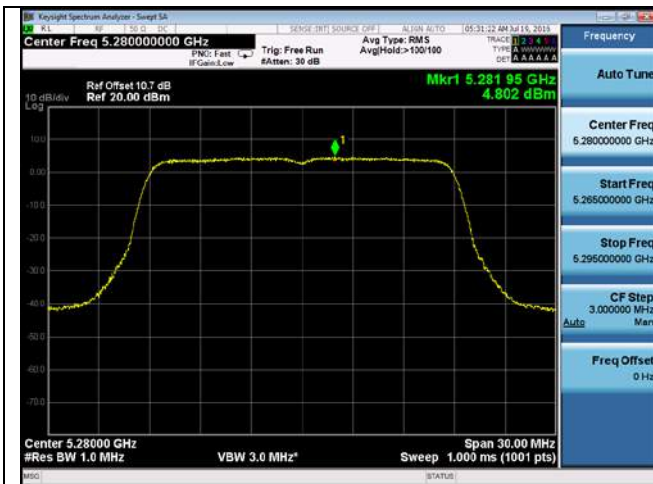
PSD-802.11n-20M-5260M-chain4



PSD-802.11n-20M-5280M-chain1



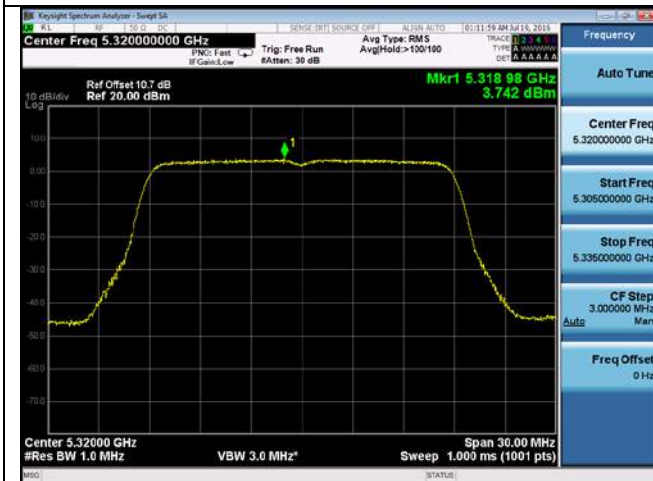
PSD-802.11n-20M-5280M-chain2



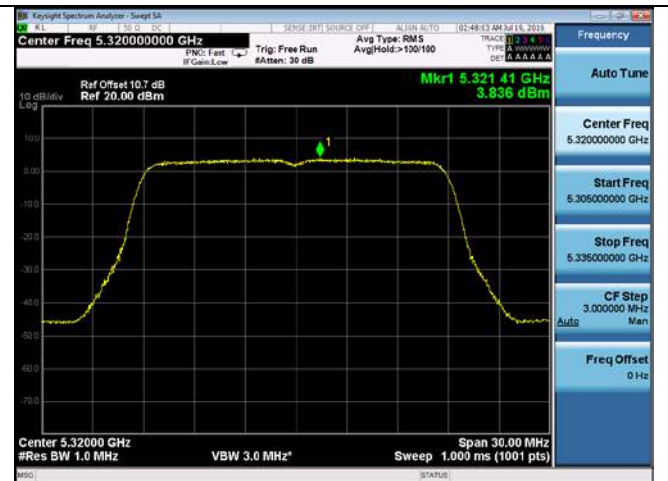
PSD-802.11n-20M-5280M-chain3



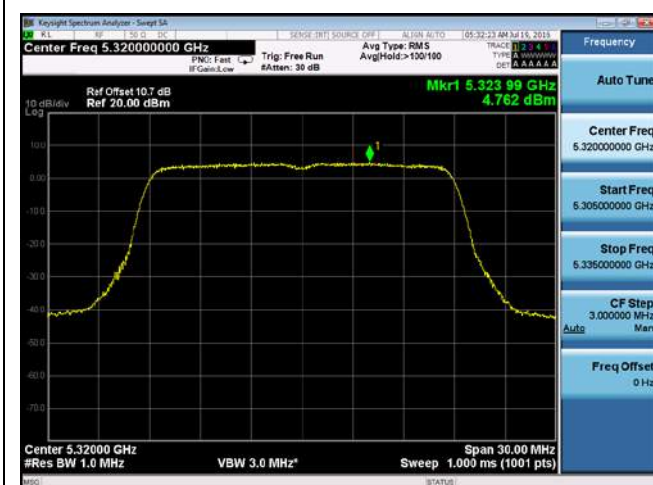
PSD-802.11n-20M-5280M-chain4



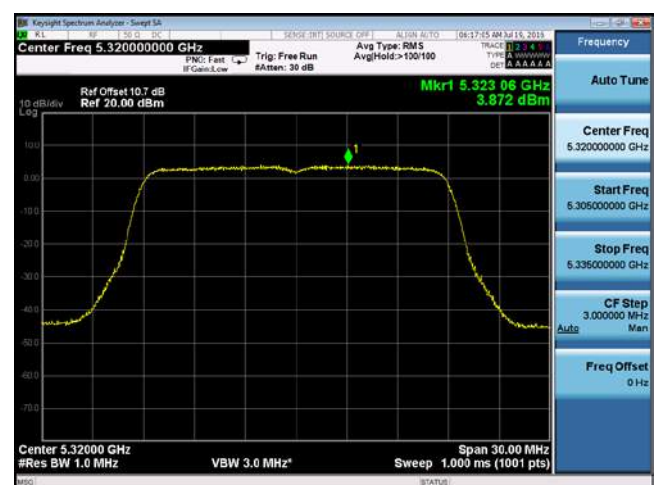
PSD-802.11n-20M-5320M-chain1



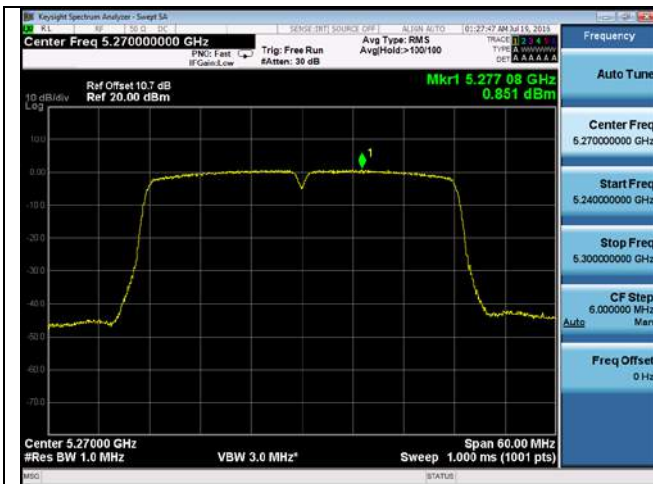
PSD-802.11n-20M-5320M-chain2



PSD-802.11n-20M-5320M-chain3



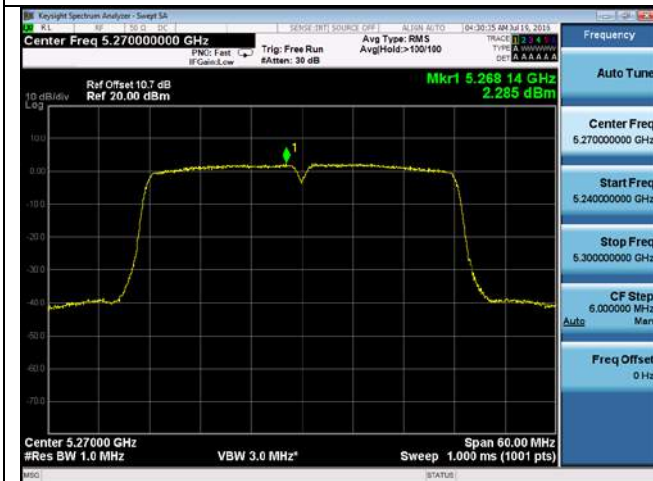
PSD-802.11n-20M-5320M-chain4



PSD-802.11n-40M-5270M-chain1



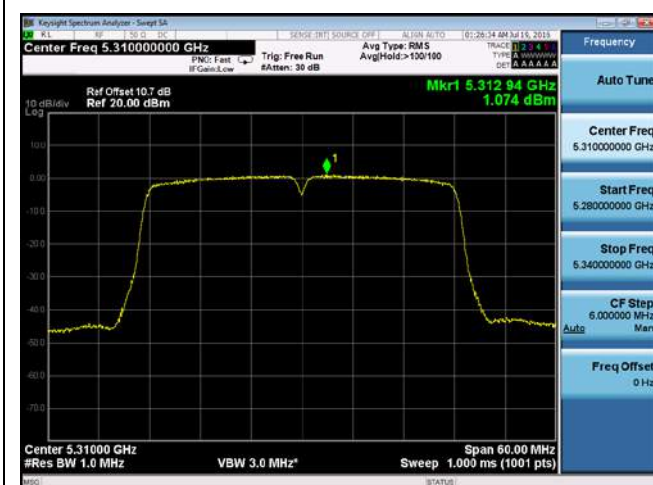
PSD-802.11n-40M-5270M-chain2



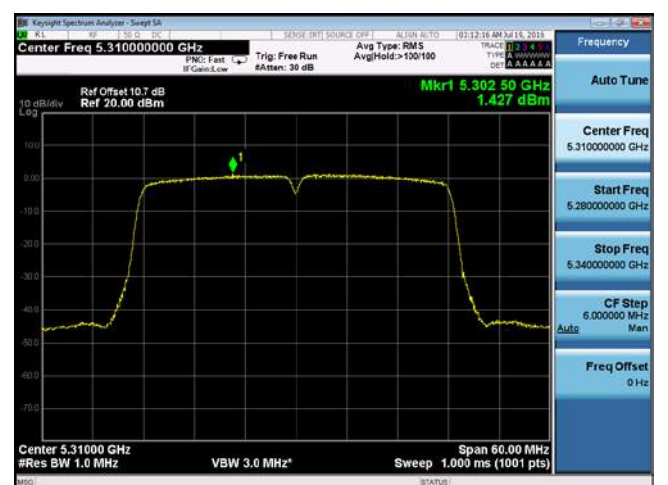
PSD-802.11n-40M-5270M-chain3



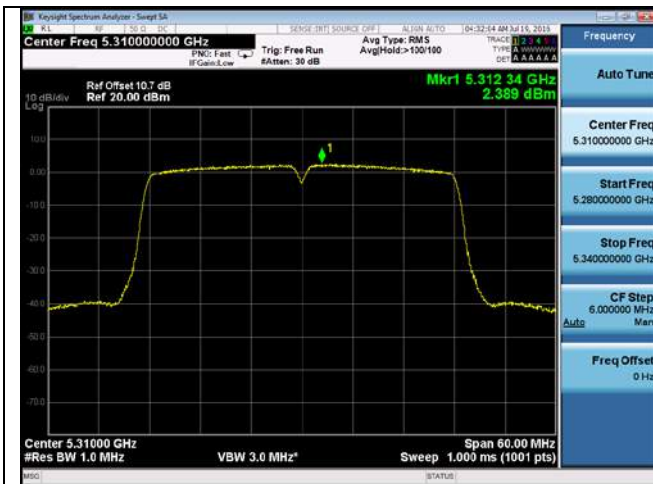
PSD-802.11n-40M-5270M-chain4



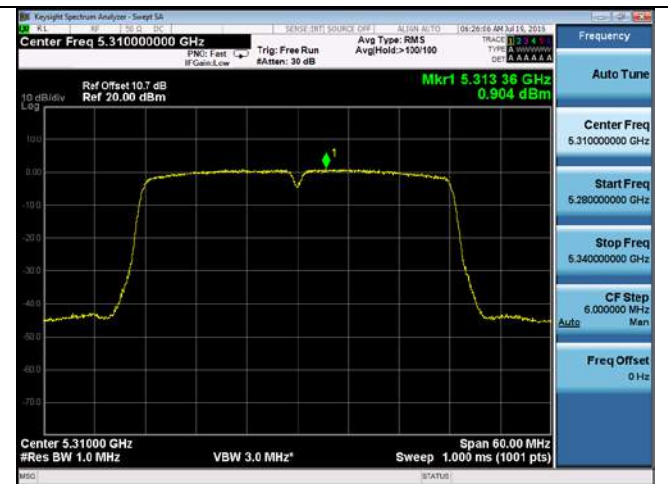
PSD-802.11n-40M-5310M-chain1



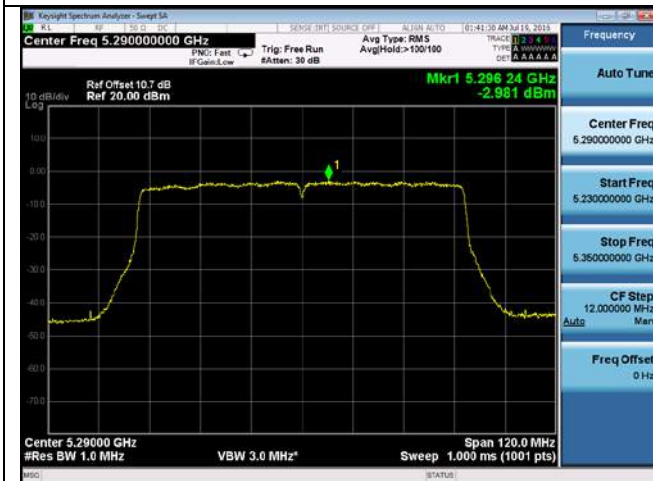
PSD-802.11n-40M-5310M-chain2



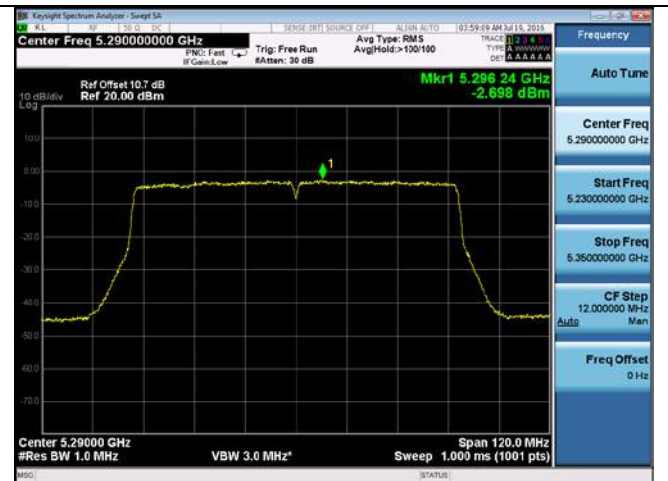
PSD-802.11n-40M-5310M-chain3



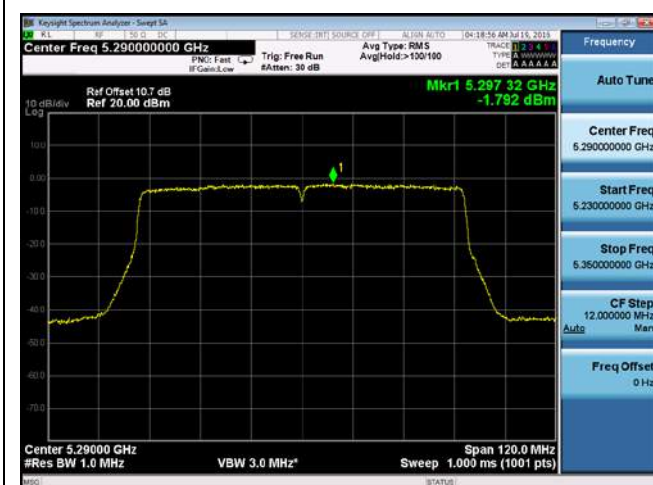
PSD-802.11n-40M-5310M-chain4



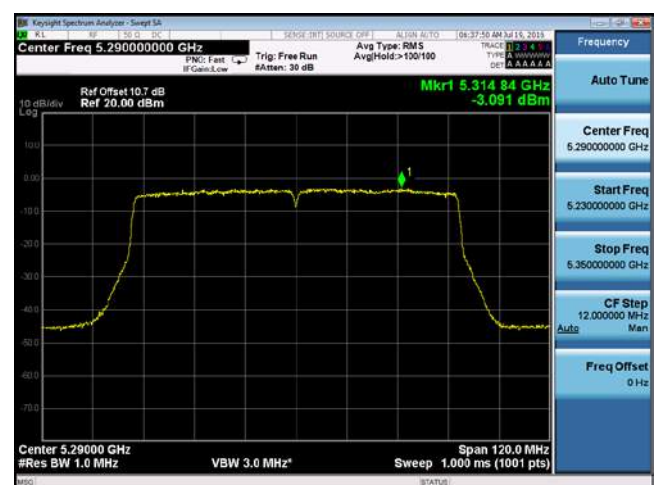
PSD-802.11ac-80M-5290M-chain1



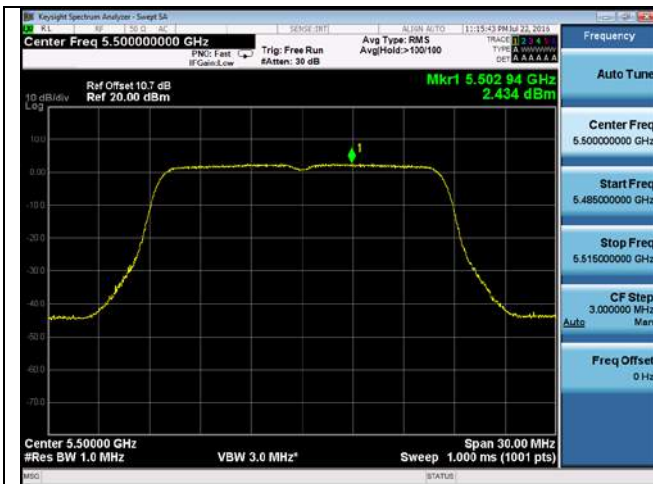
PSD-802.11ac-80M-5290M-chain2



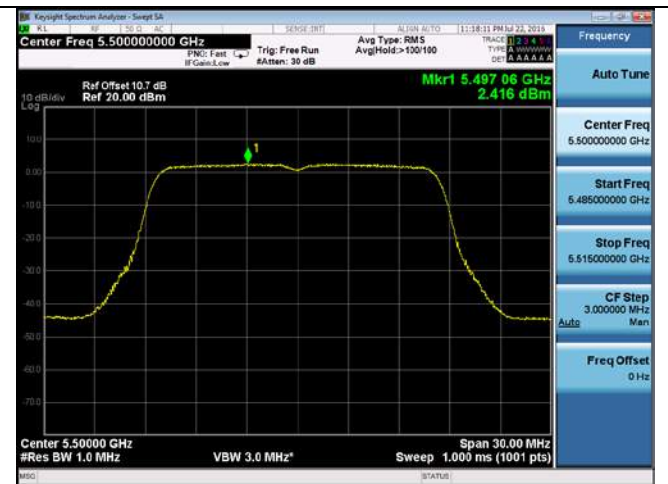
PSD-802.11ac-80M-5290M-chain3



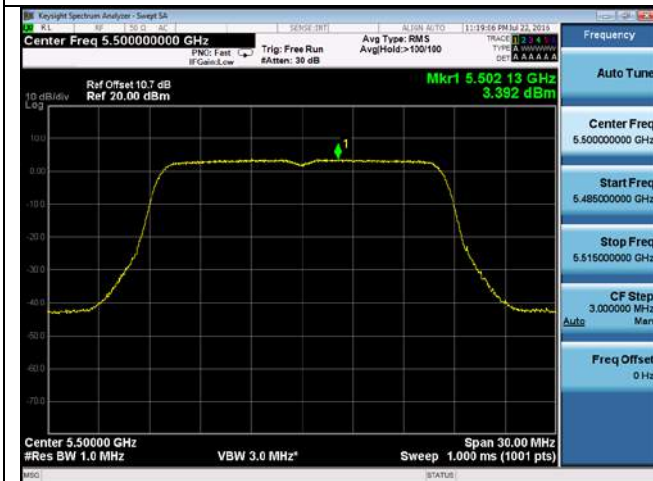
PSD-802.11ac-80M-5290M-chain4



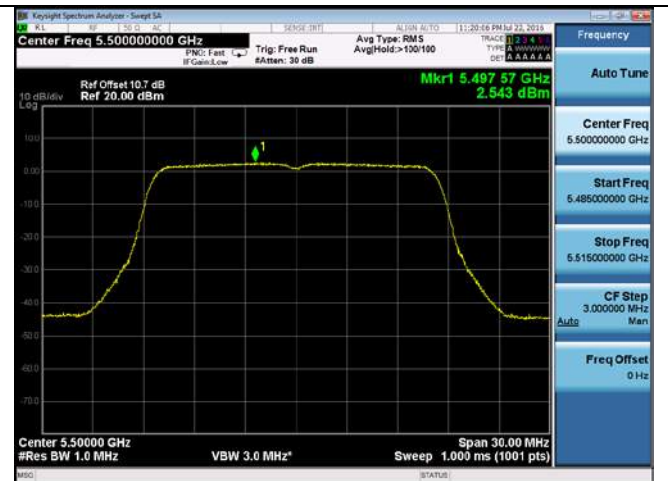
PSD-802.11a-5500M-chain1



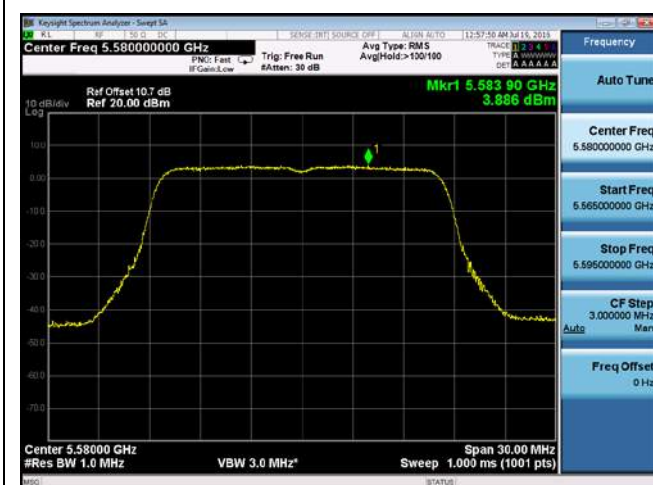
PSD-802.11a-5500M-chain2



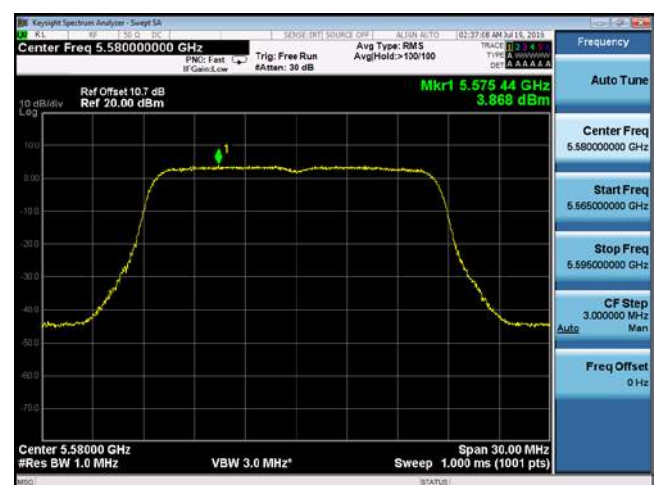
PSD-802.11a-5500M-chain3



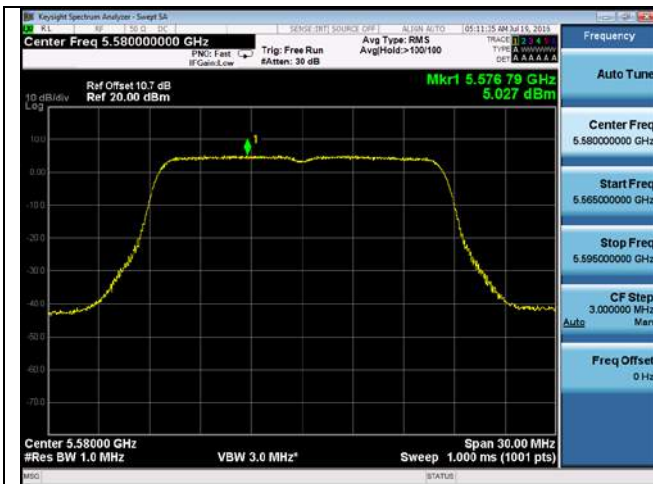
PSD-802.11a-5500M-chain4



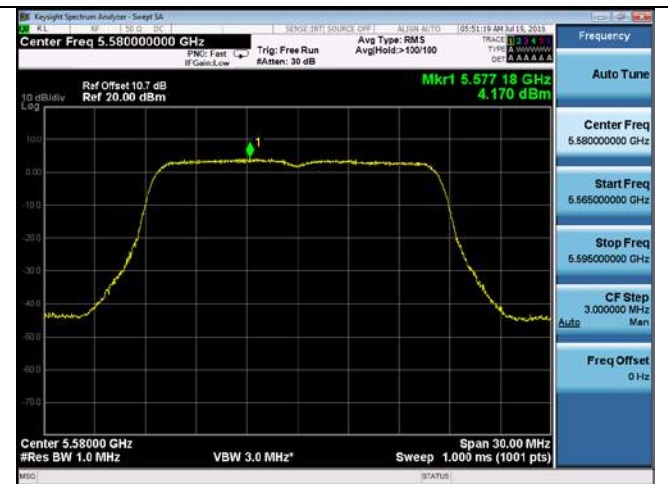
PSD-802.11a-5580M-chain1



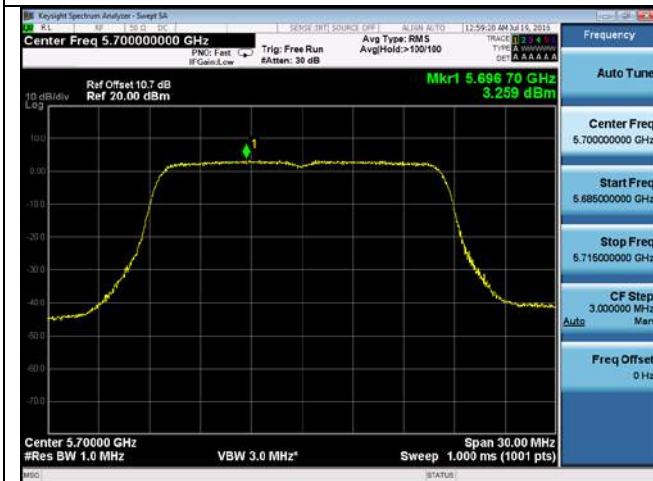
PSD-802.11a-5580M-chain2



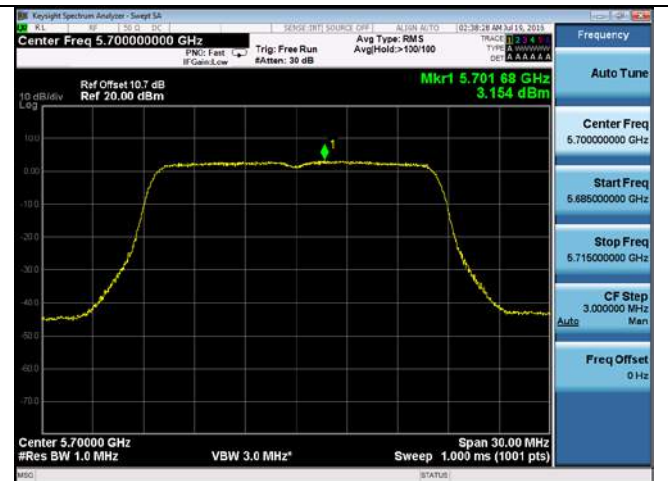
PSD-802.11a-5580M-chain3



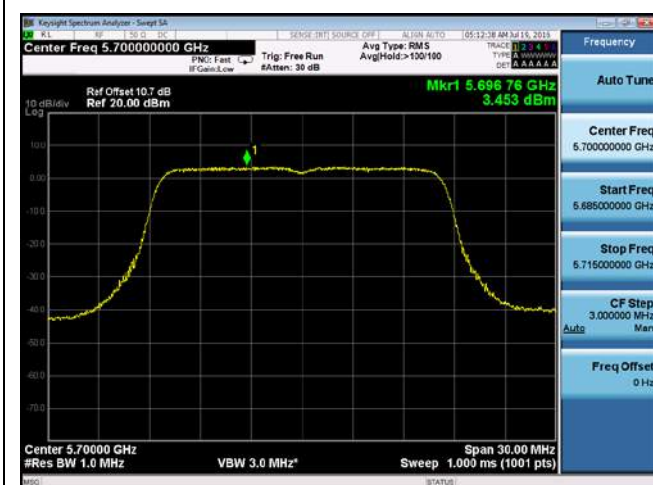
PSD-802.11a-5580M-chain4



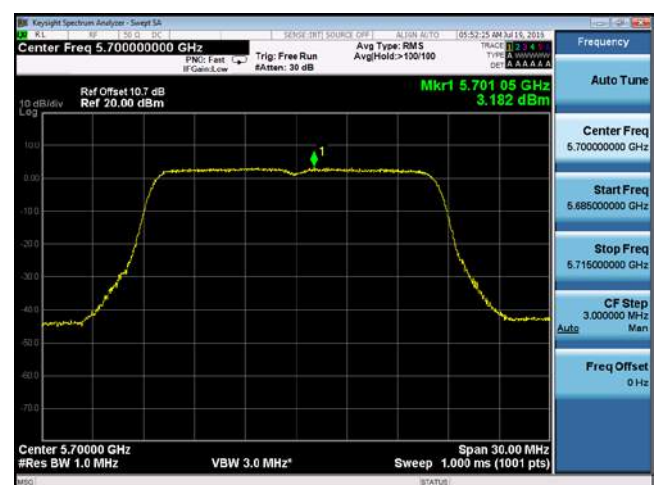
PSD-802.11a-5700M-chain1



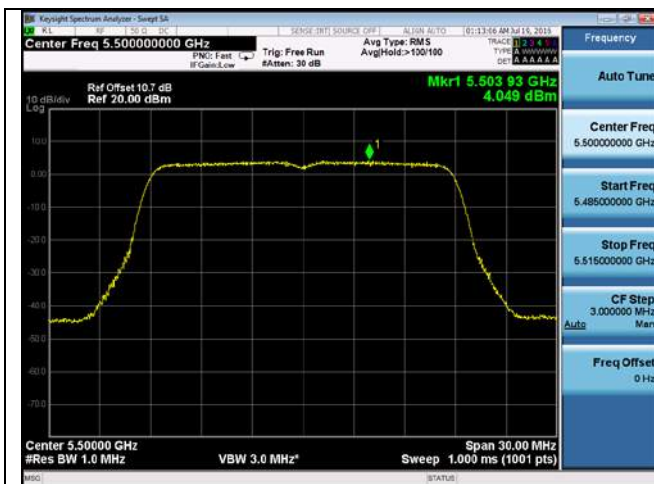
PSD-802.11a-5700M-chain2



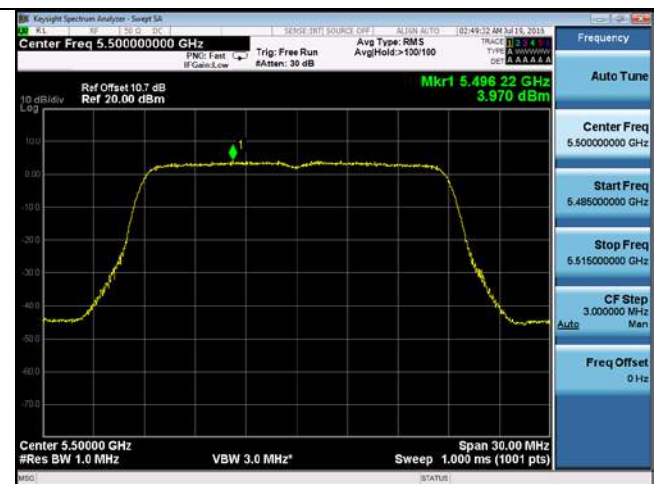
PSD-802.11a-5700M-chain3



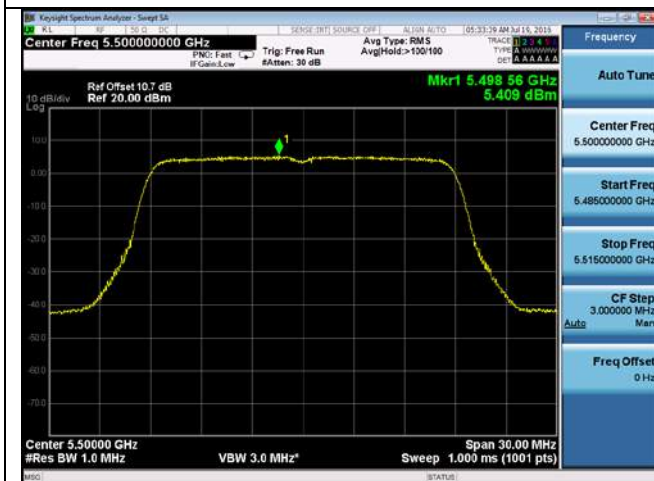
PSD-802.11a-5700M-chain4



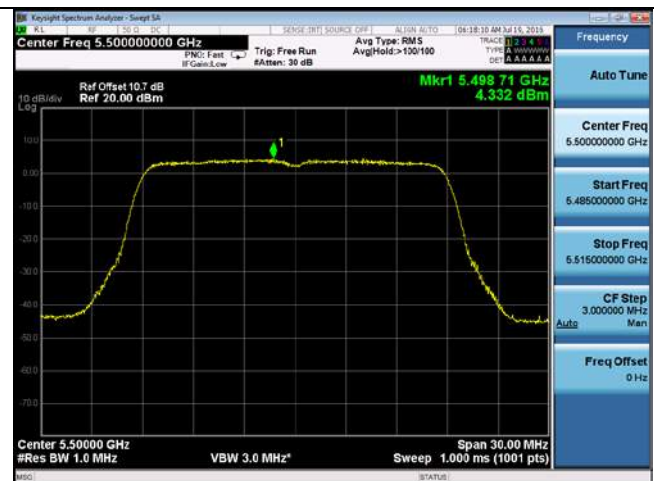
PSD-802.11n-20M-5500M-chain1



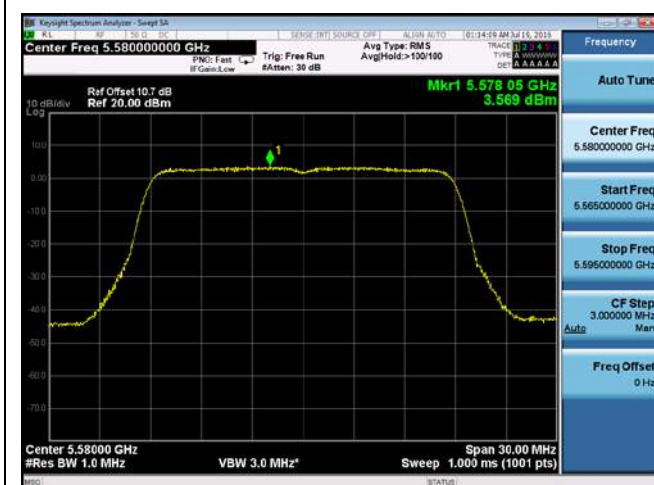
PSD-802.11n-20M-5500M-chain2



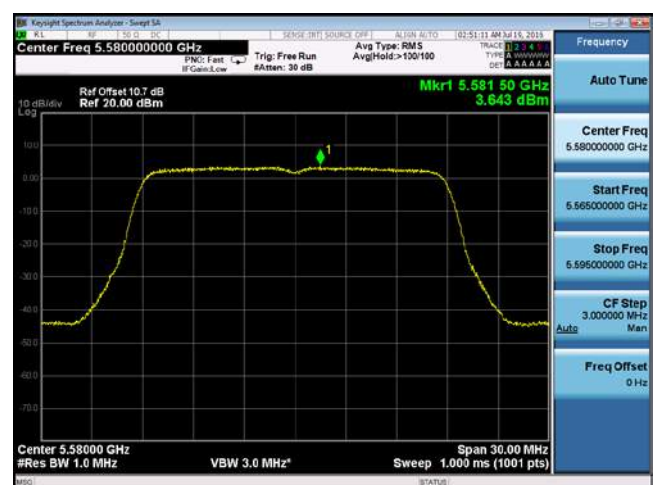
PSD-802.11n-20M-5500M-chain3



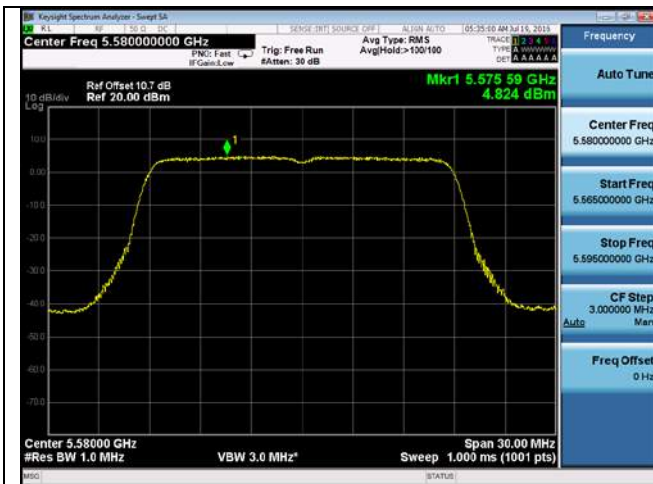
PSD-802.11n-20M-5500M-chain4



PSD-802.11n-20M-5580M-chain1



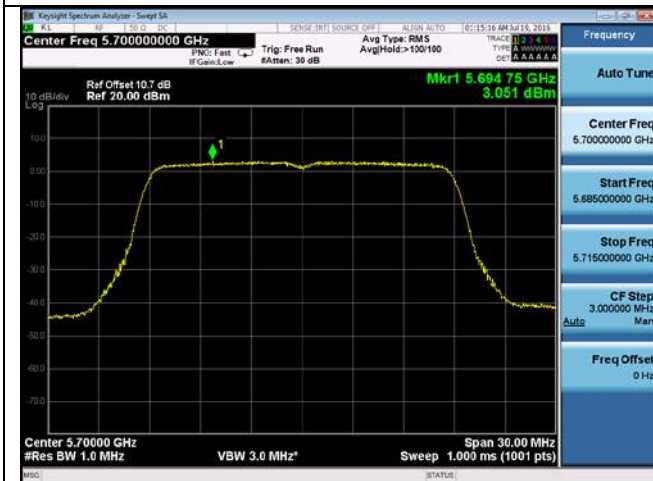
PSD-802.11n-20M-5580M-chain2



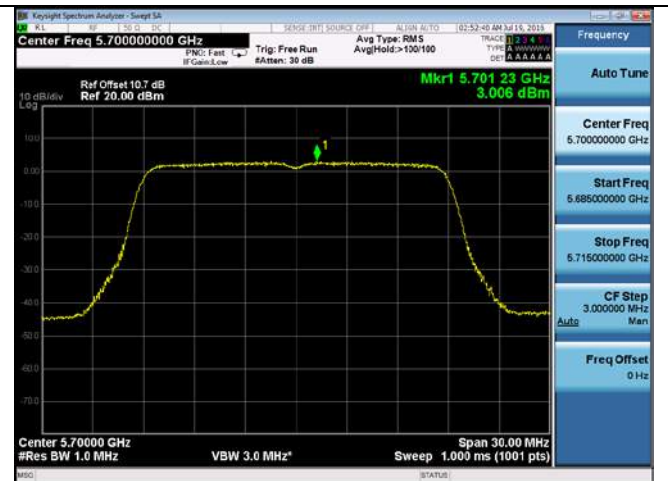
PSD-802.11n-20M-5580M-chain3



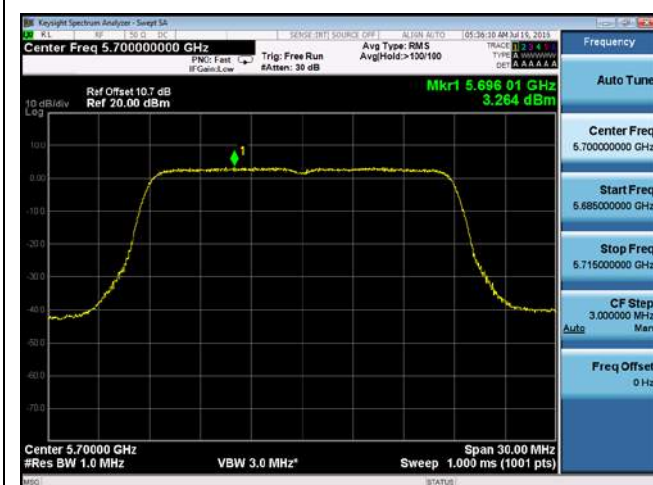
PSD-802.11n-20M-5580M-chain4



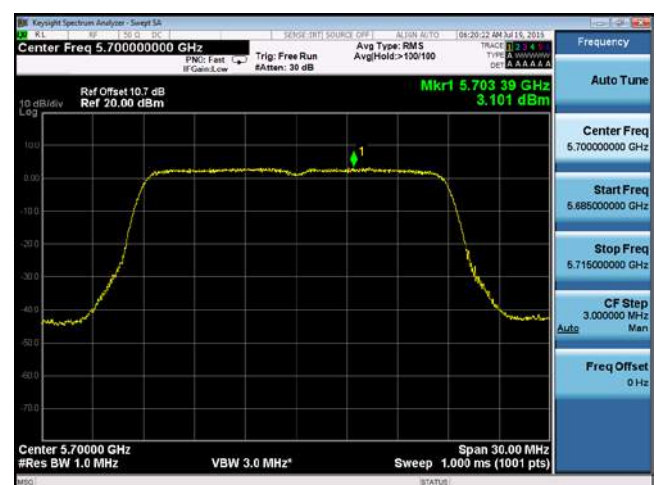
PSD-802.11n-20M-5700M-chain1



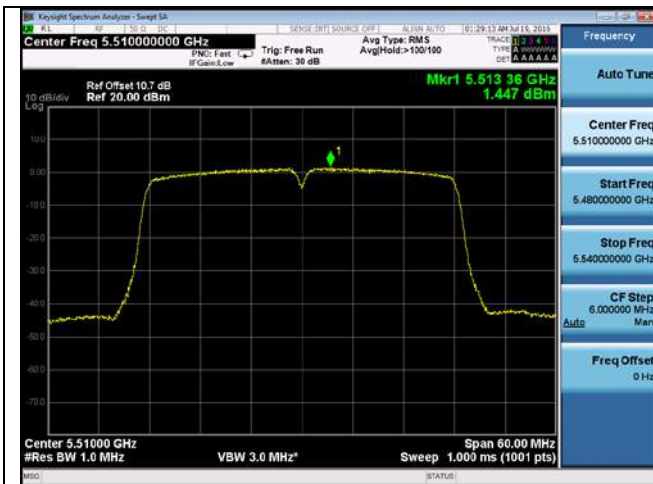
PSD-802.11n-20M-5700M-chain2



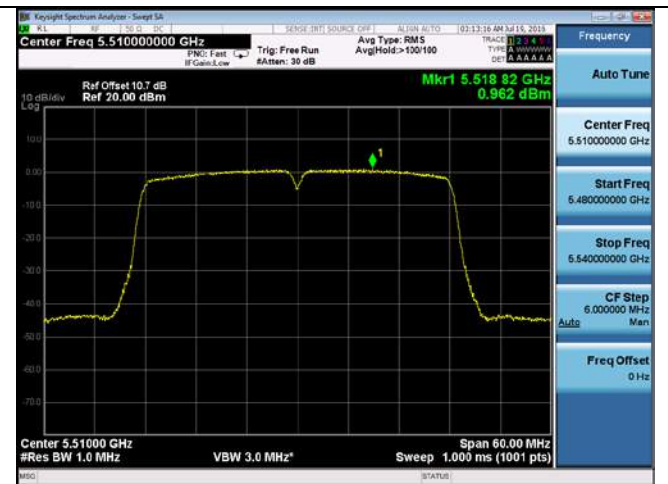
PSD-802.11n-20M-5700M-chain3



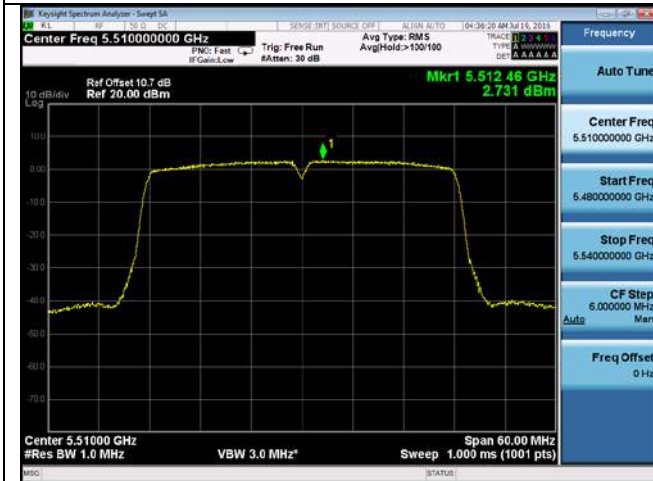
PSD-802.11n-20M-5700M-chain4



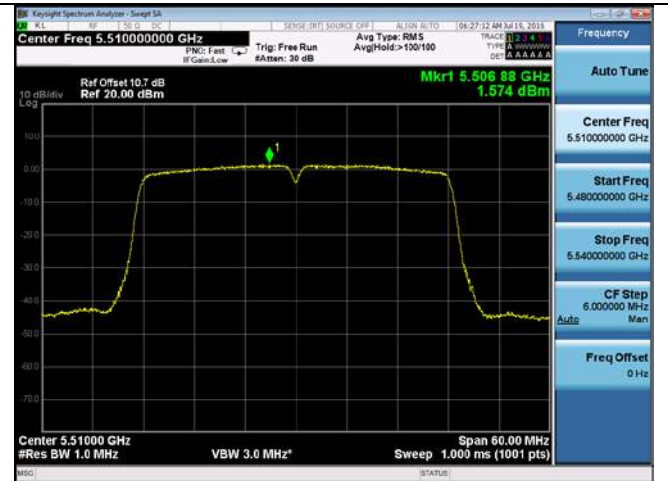
PSD-802.11n-40M-5510M-chain1



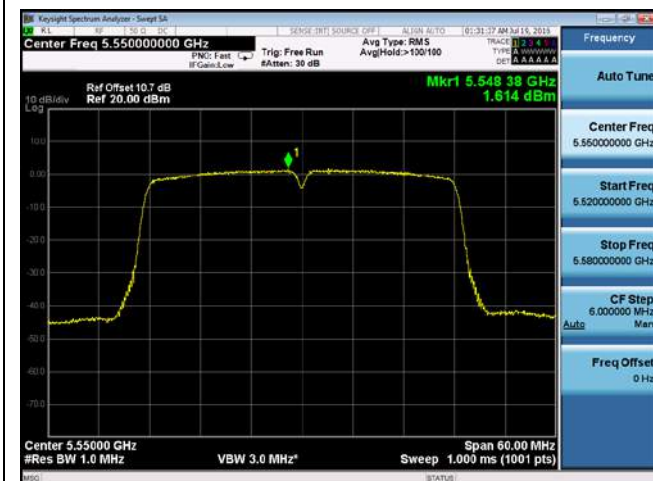
PSD-802.11n-40M-5510M-chain2



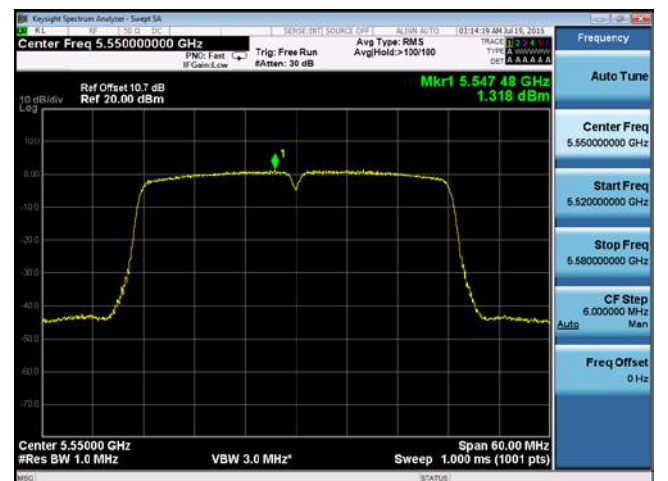
PSD-802.11n-40M-5510M-chain3



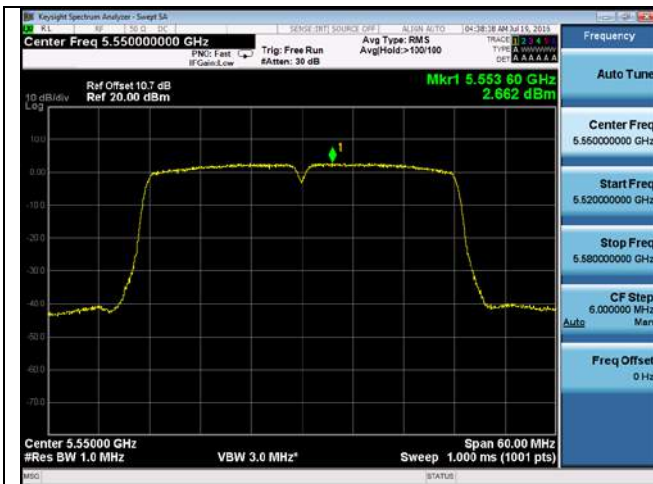
PSD-802.11n-40M-5510M-chain4



PSD-802.11n-40M-5550M-chain1



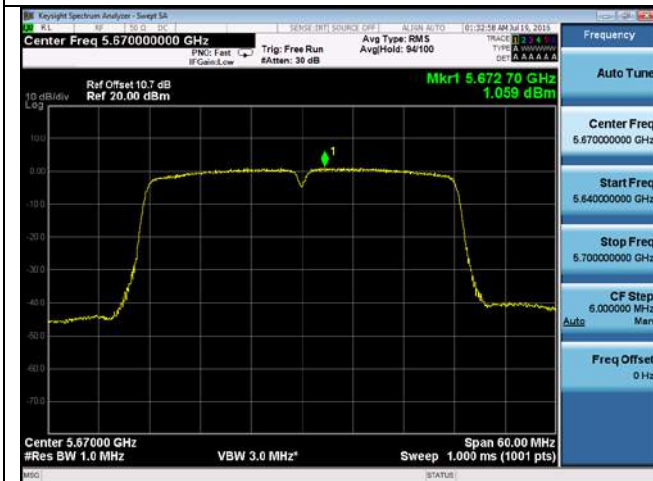
PSD-802.11n-40M-5550M-chain2



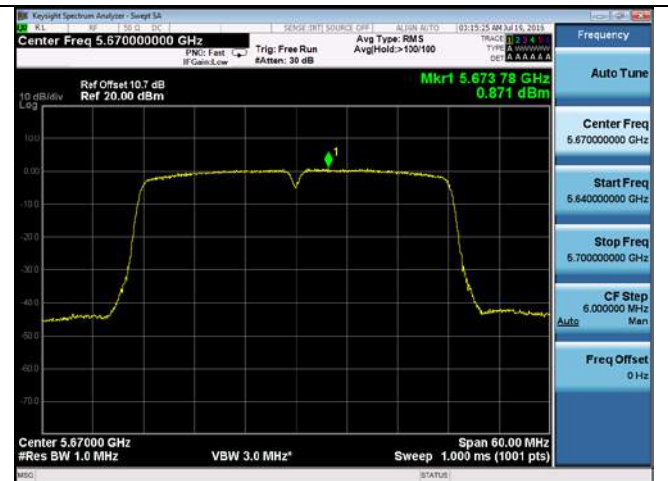
PSD-802.11n-40M-5550M-chain3



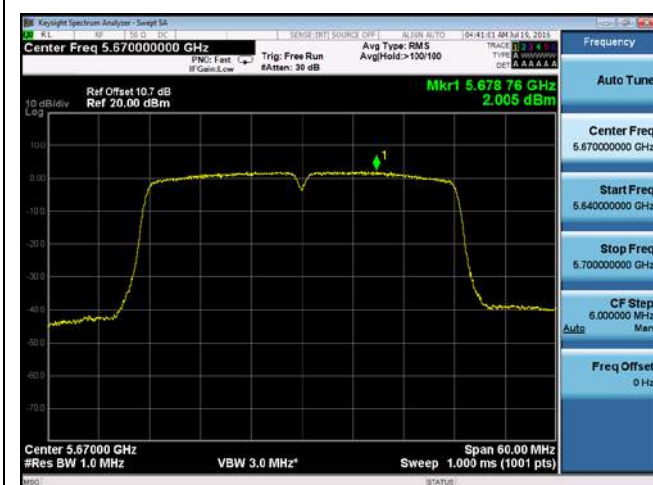
PSD-802.11n-40M-5550M-chain4



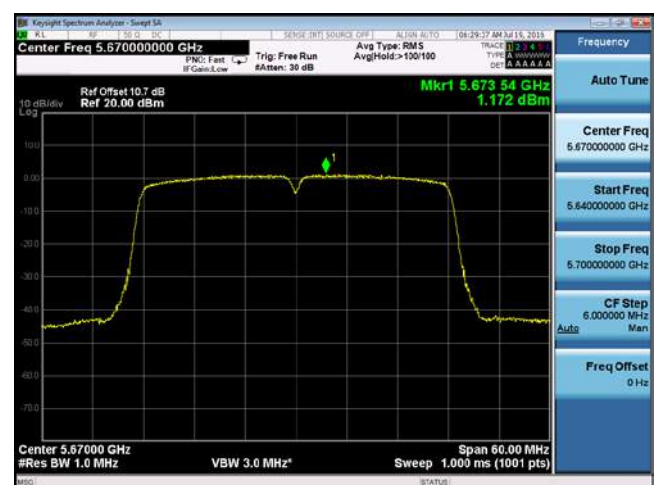
PSD-802.11n-40M-5670M-chain1



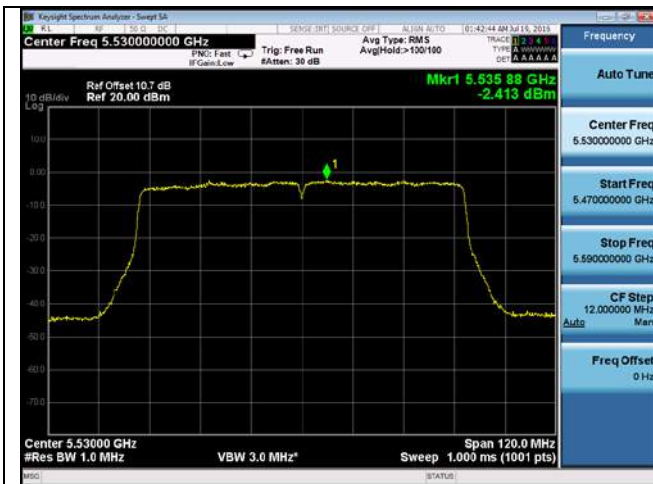
PSD-802.11n-40M-5670M-chain2



PSD-802.11n-40M-5670M-chain3



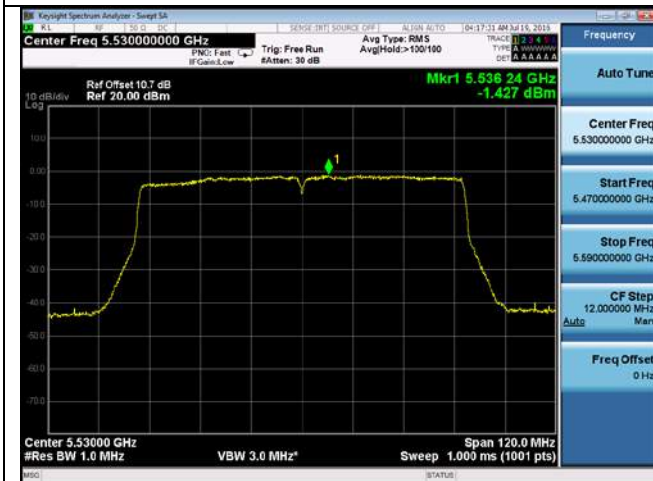
PSD-802.11n-40M-5670M-chain4



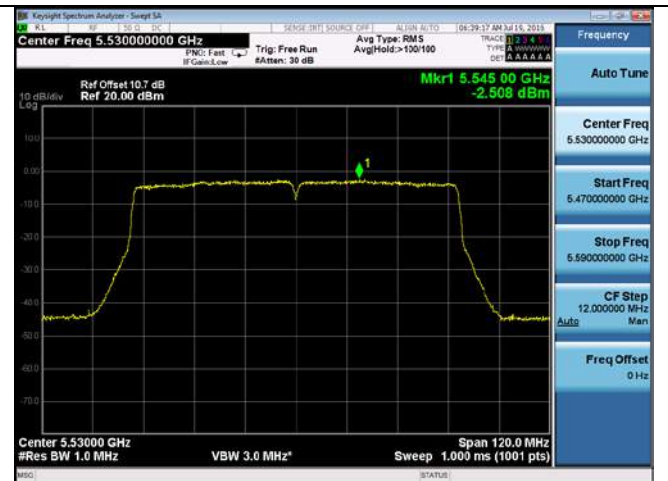
PSD-802.11ac-80M-5530M-chain1



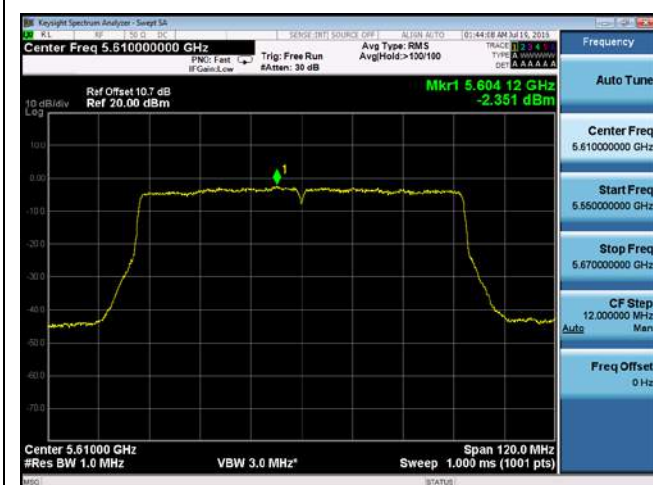
PSD-802.11ac-80M-5530M-chain2



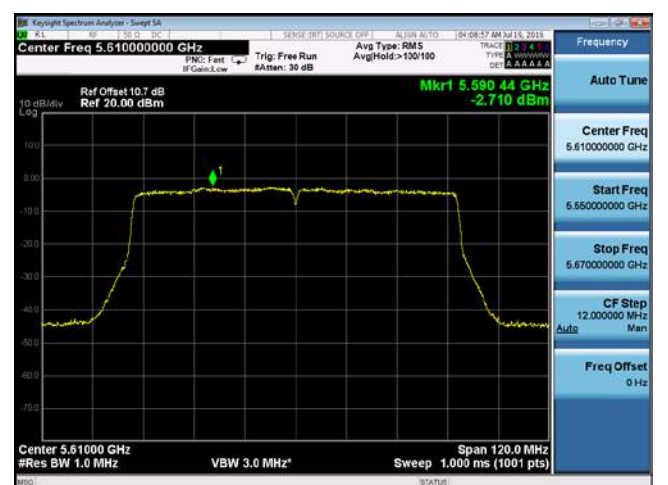
PSD-802.11ac-80M-5530M-chain3



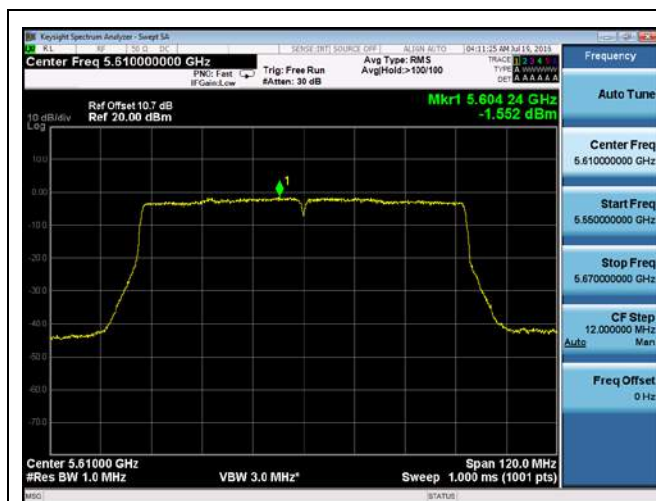
PSD-802.11ac-80M-5530M-chain4



PSD-802.11ac-80M-5610M-chain1



PSD-802.11ac-80M-5610M-chain2

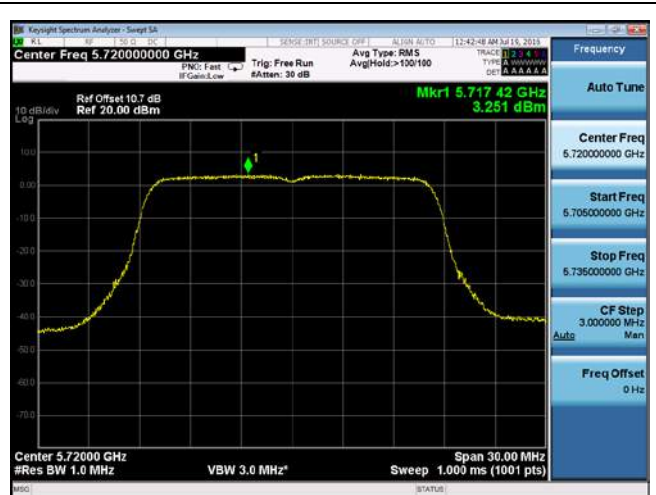


PSD-802.11ac-80M-5610M-chain3

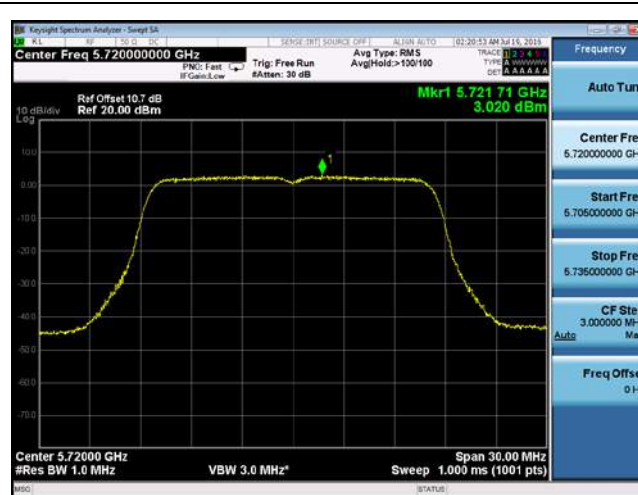


PSD-802.11ac-80M-5610M-chain4

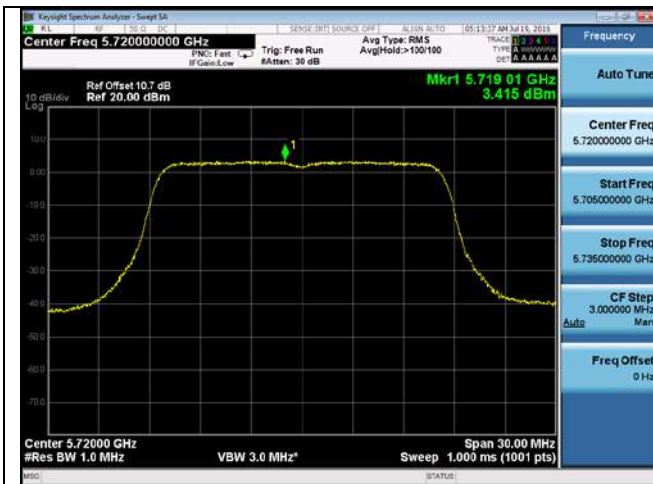
Cross Band (in band 5470-5725MHz)



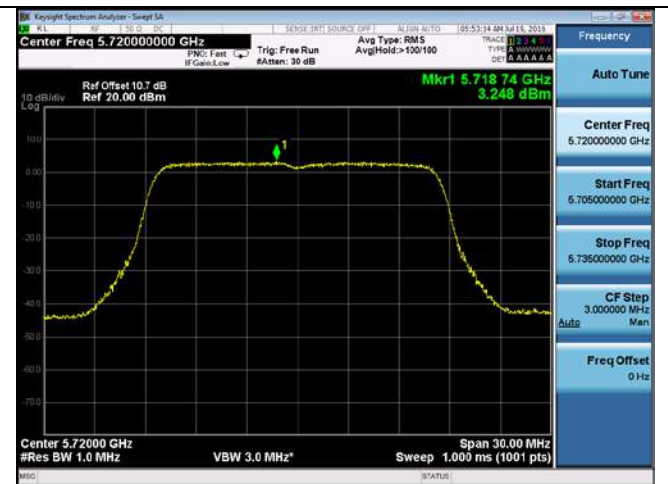
PSD-802.11a-CROSS-5720M-chain1



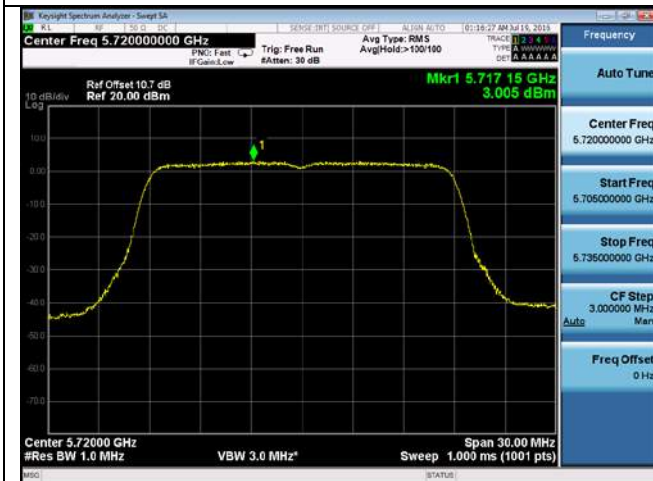
PSD-802.11a-CROSS-5720M-chain2



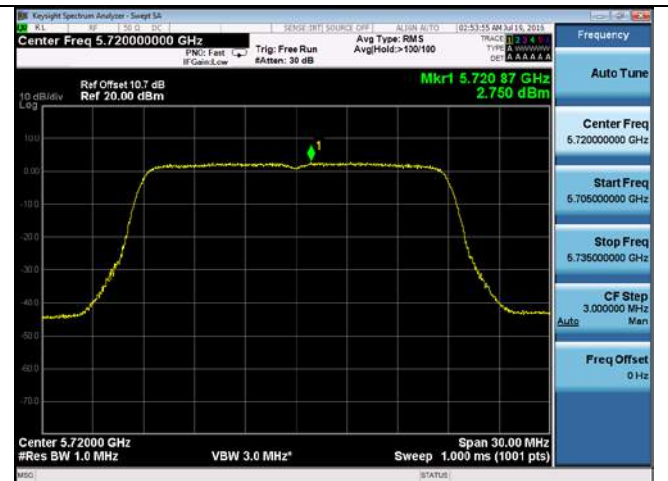
PSD-802.11a-CROSS-5720M-chain3



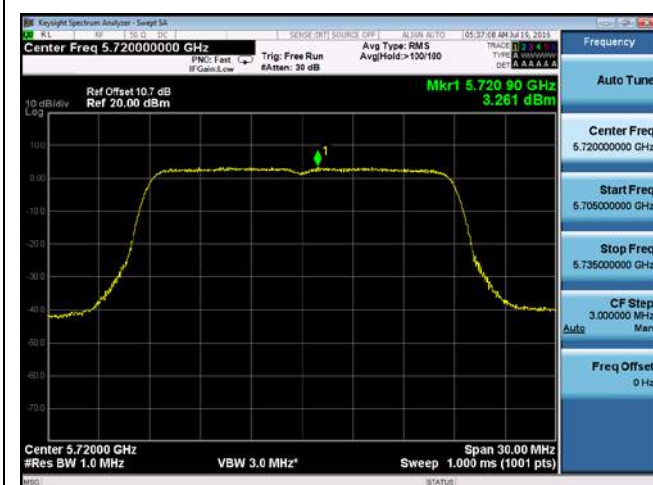
PSD-802.11a-CROSS-5720M-chain4



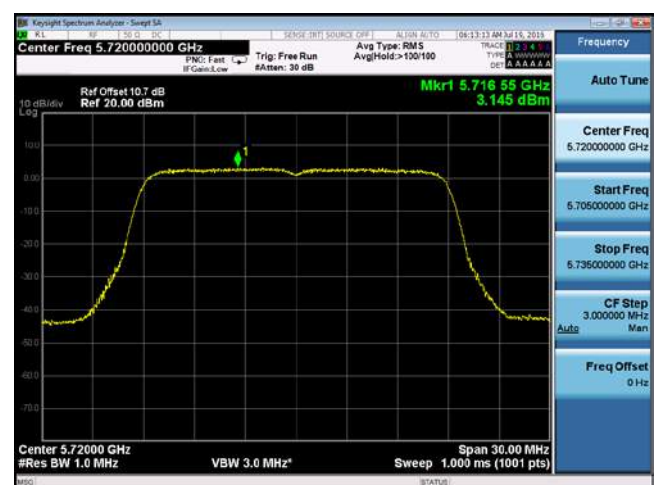
PSD-802.11n-20M-CROSS-5720M-chain1



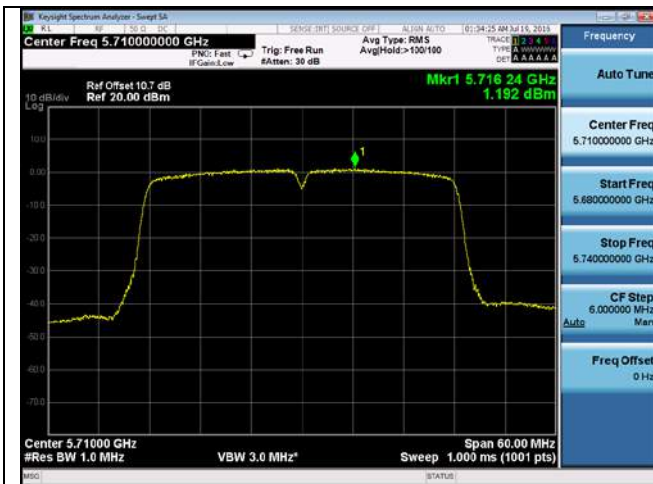
PSD-802.11n-20M-CROSS-5720M-chain2



PSD-802.11n-20M-CROSS-5720M-chain3



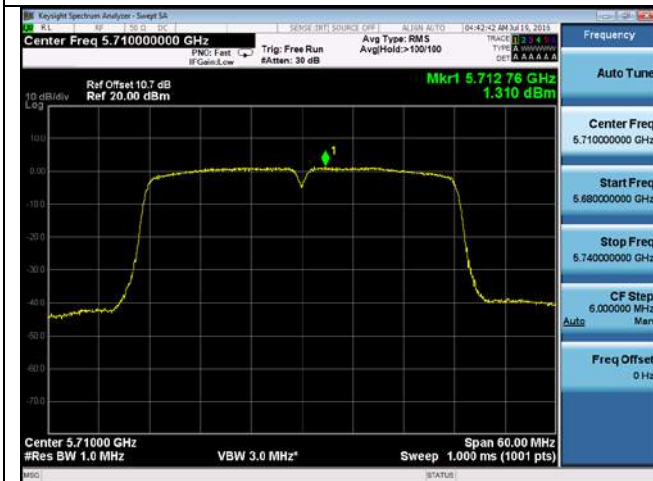
PSD-802.11n-20M-CROSS-5720M-chain4



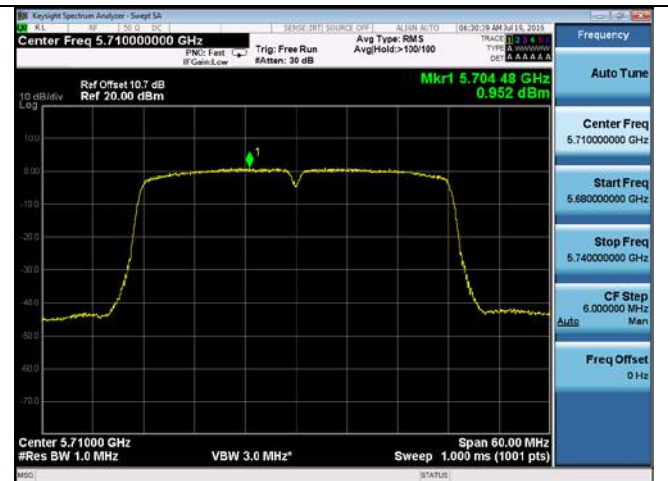
PSD-802.11n-40M-CROSS-5710M-chain1



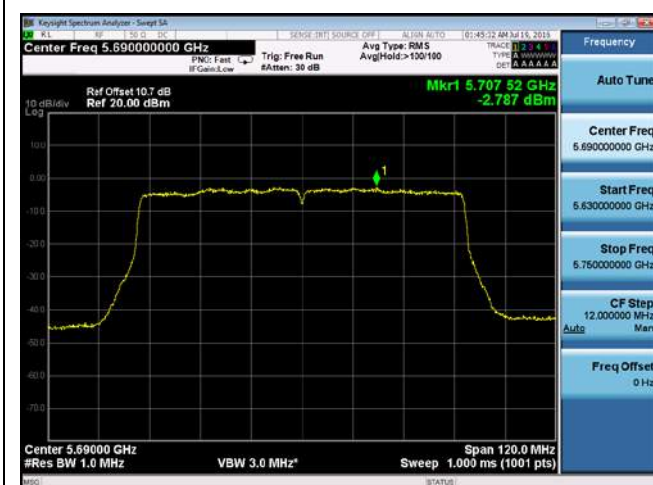
PSD-802.11n-40M-CROSS-5710M-chain2



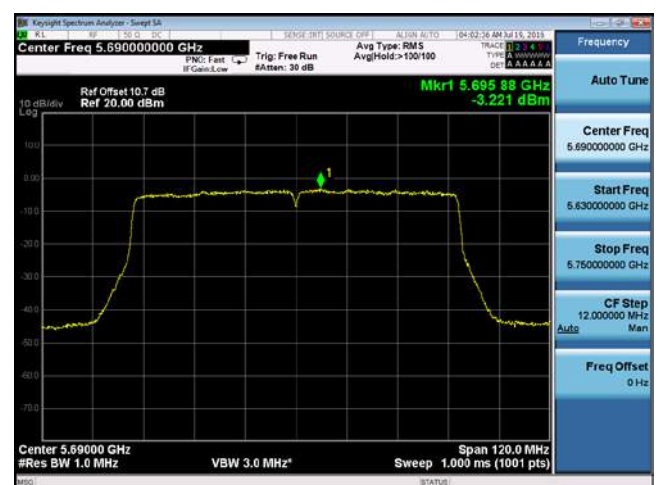
PSD-802.11n-40M-CROSS-5710M-chain3



PSD-802.11n-40M-CROSS-5710M-chain4



PSD-802.11ac-CROSS-5690M-chain1



PSD-802.11ac-CROSS-5690M-chain2

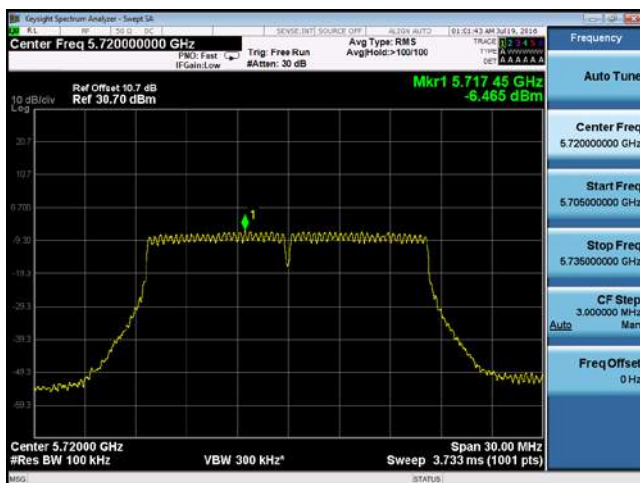


PSD-802.11ac-CROSS-5690M-chain3

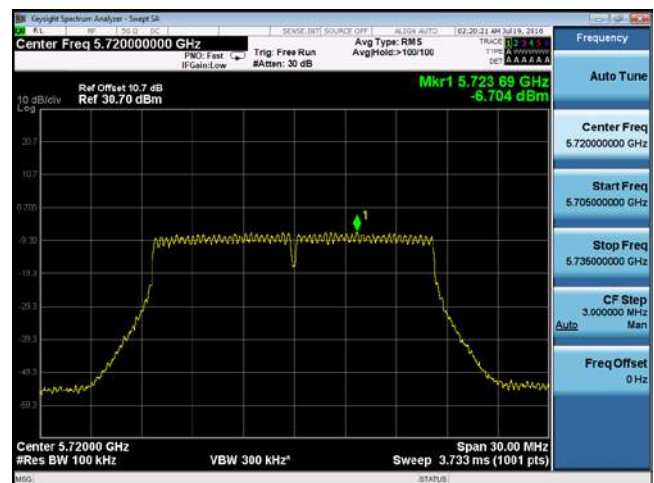


PSD-802.11ac-CROSS-5690M-chain4

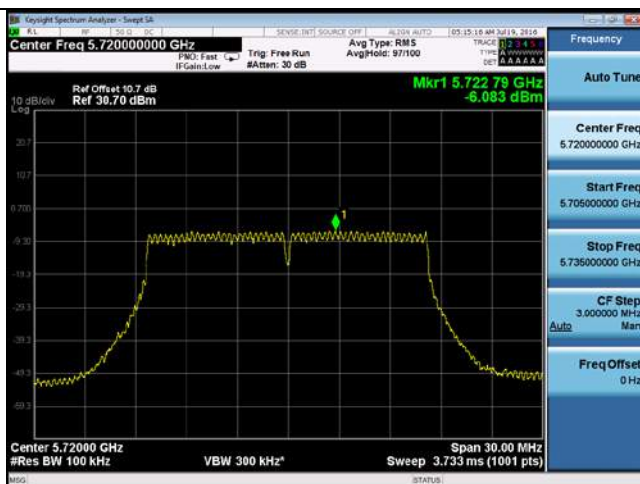
Cross Band (in band 5725-5850MHz)



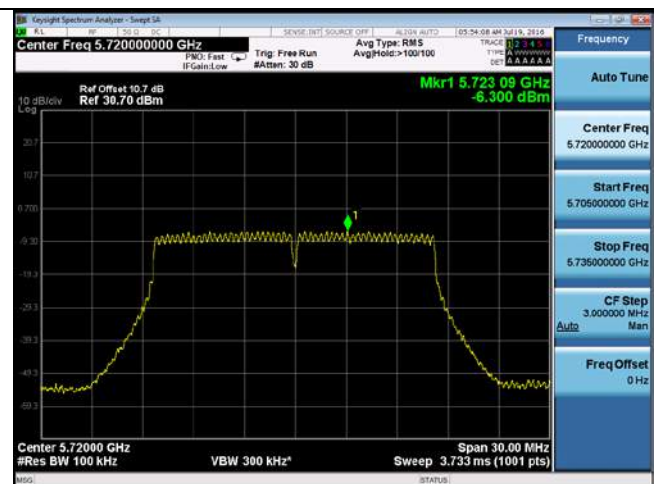
PSD-802.11a-CROSS-5720M-chain1



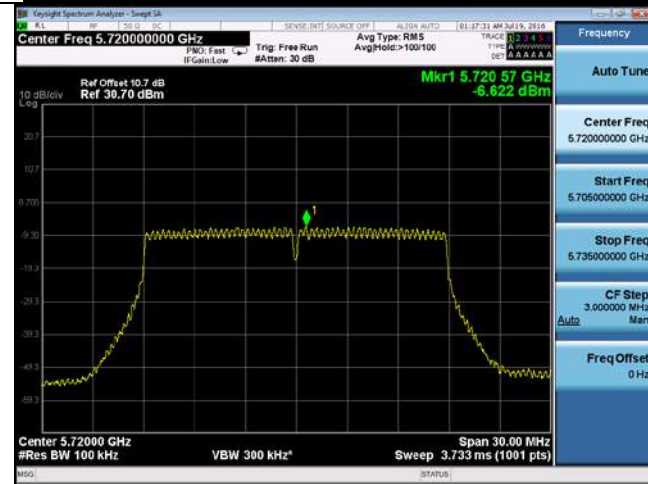
PSD-802.11a-CROSS-5720M-chain2



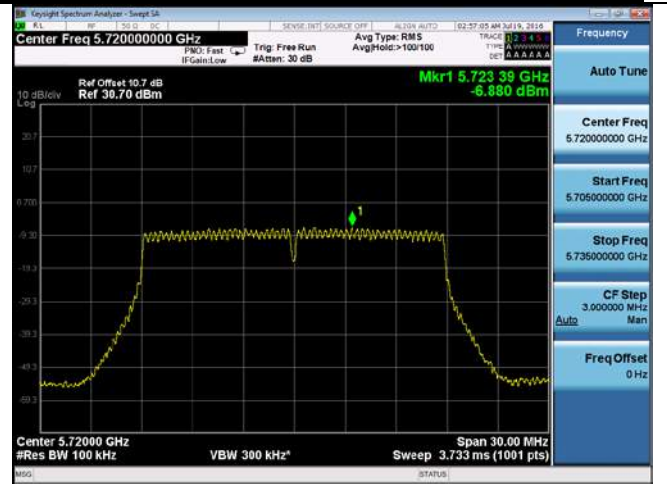
PSD-802.11a-CROSS-5720M-chain3



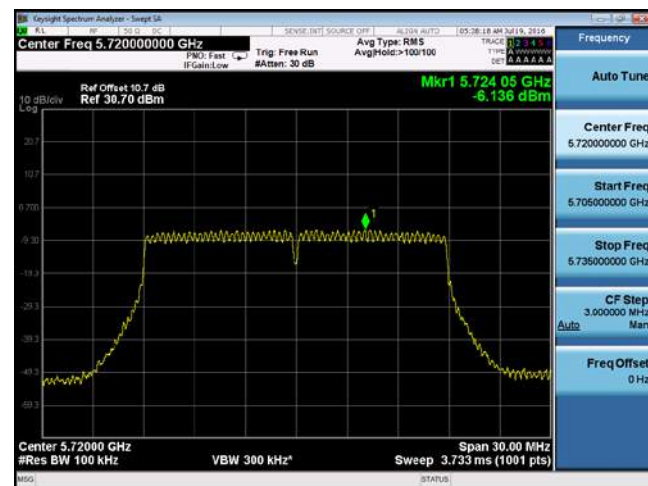
PSD-802.11a-CROSS-5720M-chain4



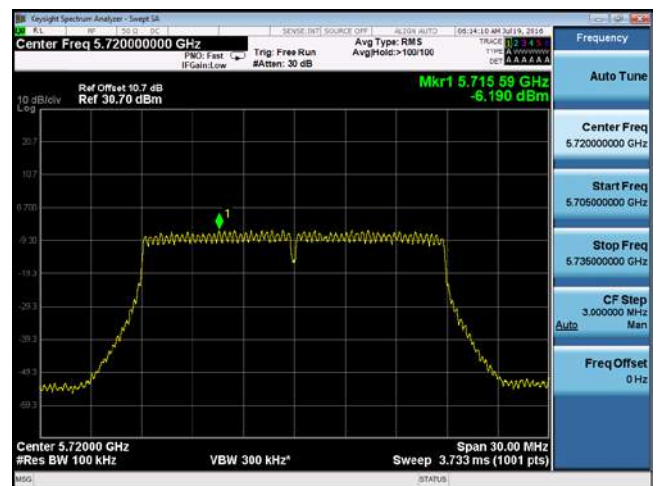
PSD-802.11n-20M-CROSS-5720M-chain1



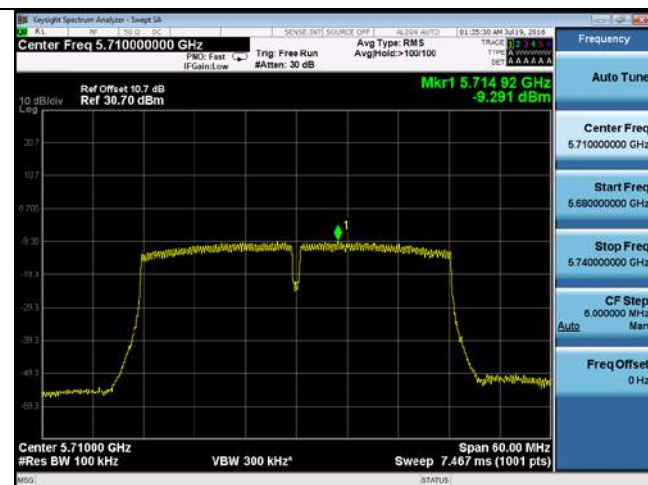
PSD-802.11n-20M-CROSS-5720M-chain2



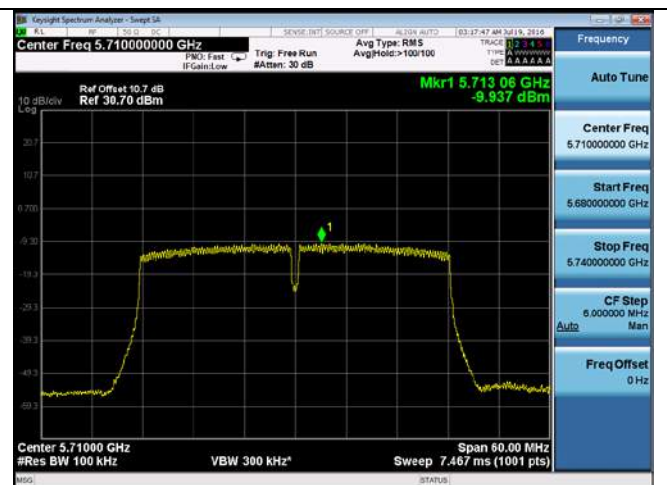
PSD-802.11n-20M-CROSS-5720M-chain3



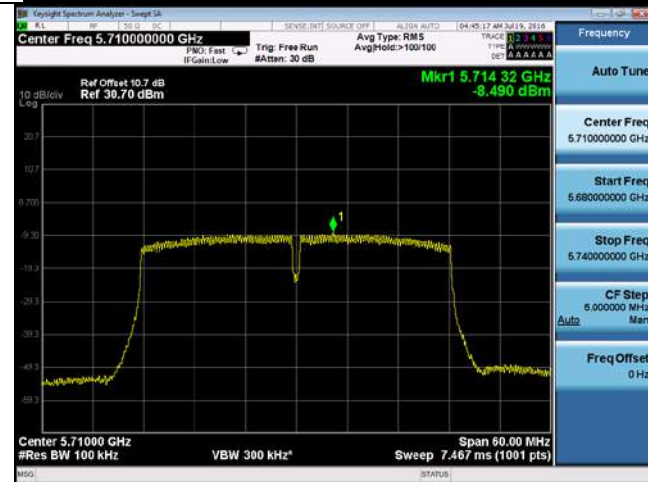
PSD-802.11n-20M-CROSS-5720M-chain4



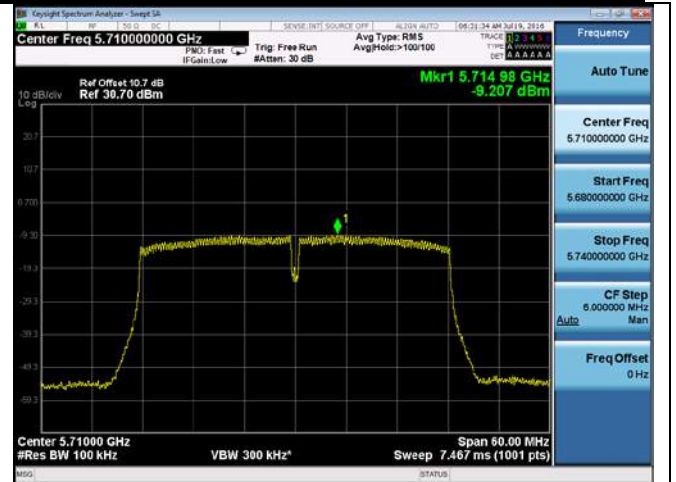
PSD-802.11n-40M-CROSS-5710M-chain1



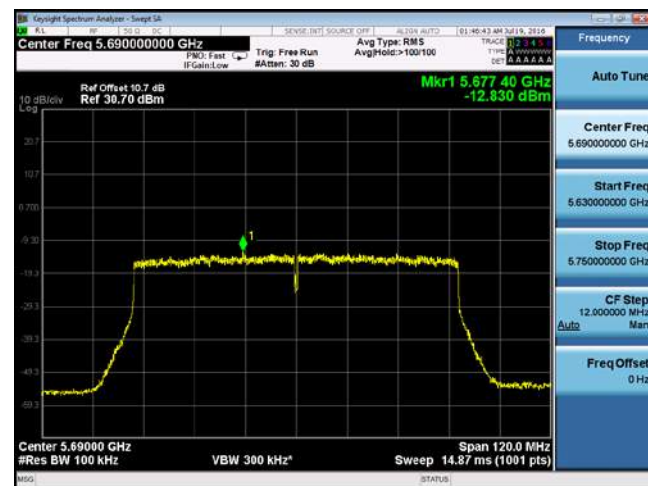
PSD-802.11n-40M-CROSS-5710M-chain2



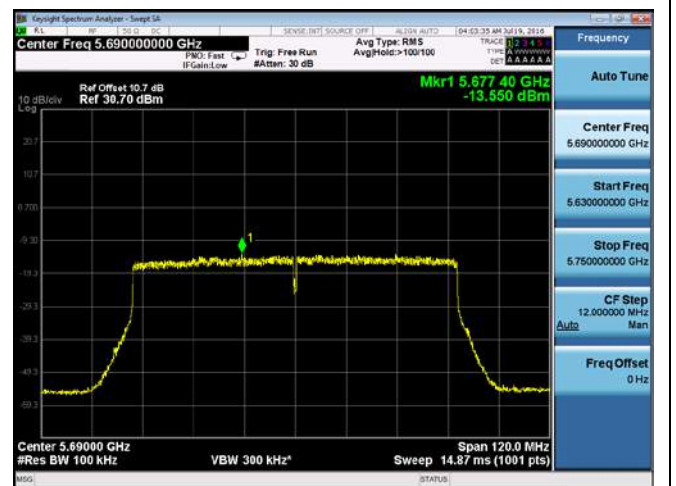
PSD-802.11n-40M-CROSS-5710M-chain3



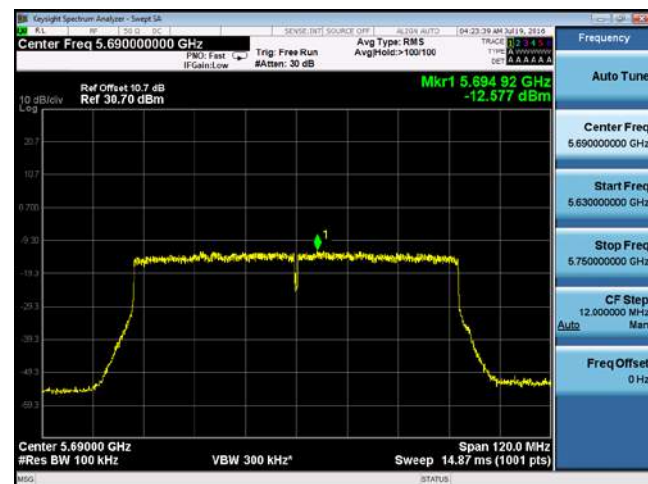
PSD-802.11n-40M-CROSS-5710M-chain4



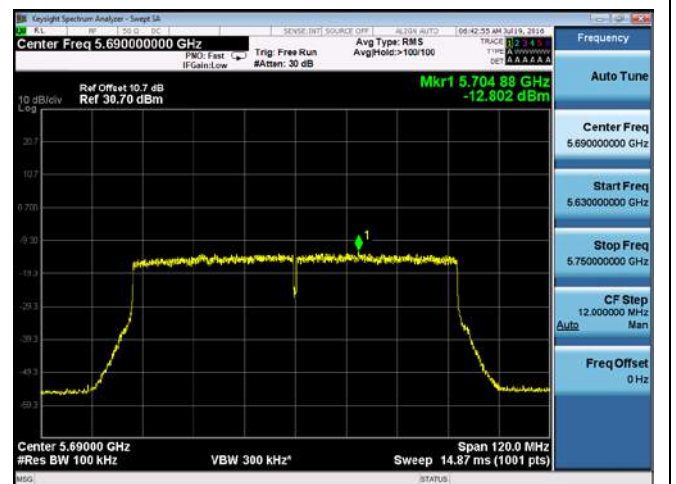
PSD-802.11ac-CROSS-5690M-chain1



PSD-802.11ac-CROSS-5690M-chain2



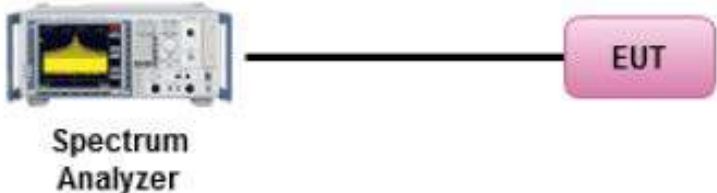
PSD-802.11ac-CROSS-5690M-chain3



PSD-802.11ac-CROSS-5690M-chain4

10.5 Band Edge Measurement

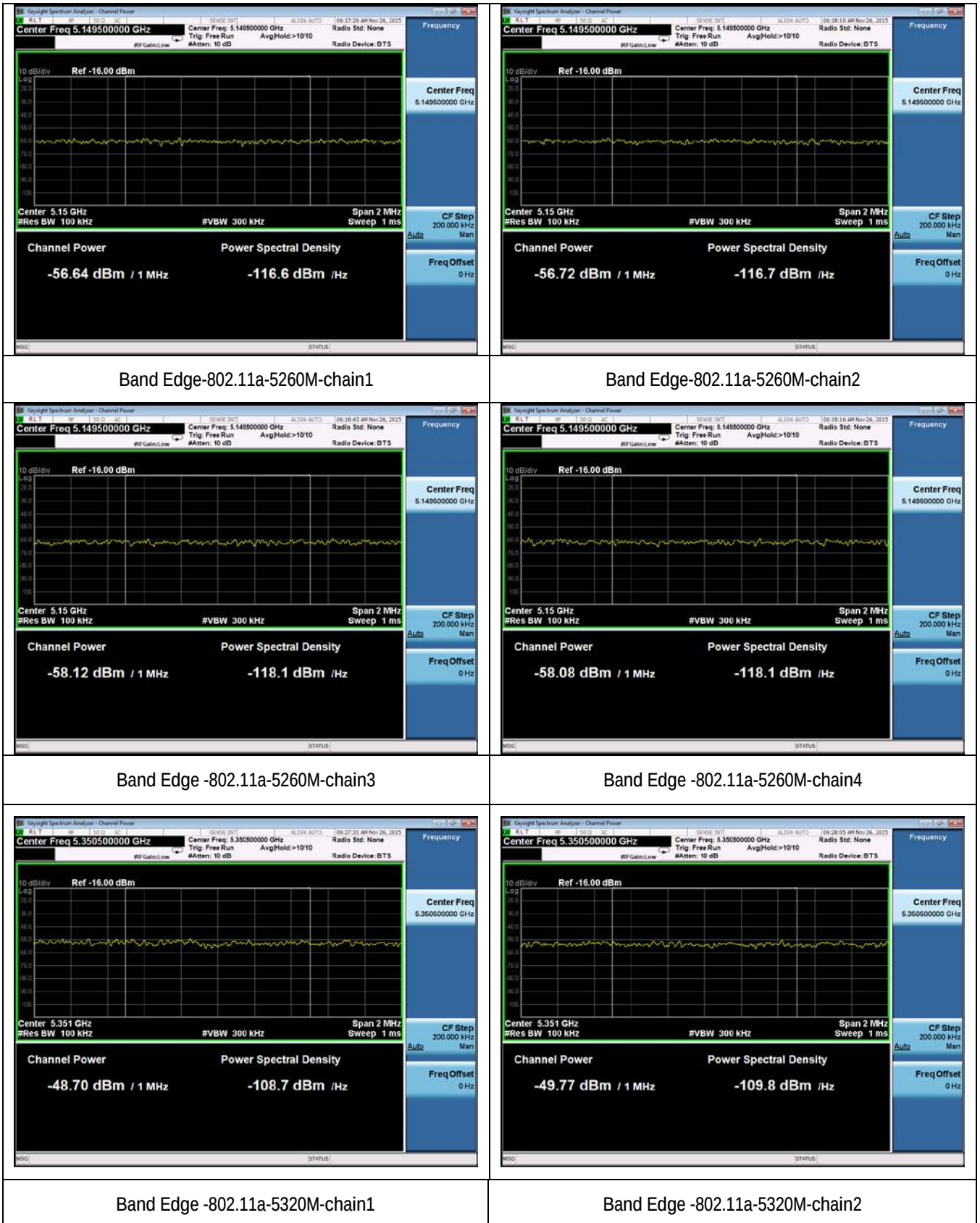
Requirement(s):

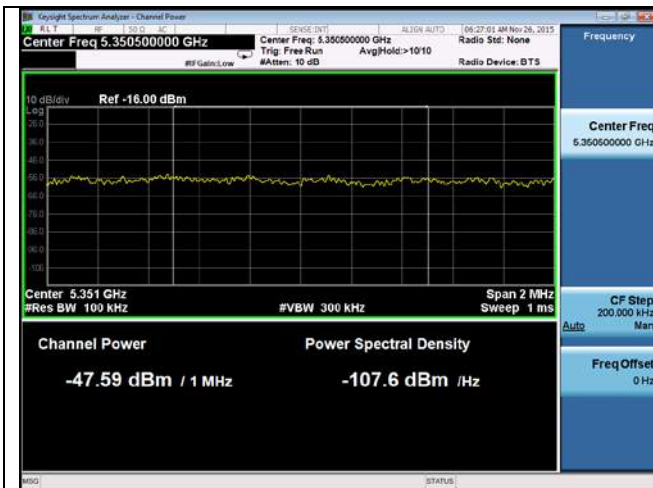
Spec	Item	Requirement	Applicable
47CFR§ 15.407(b)(2), 15.407(b)(6)	(1)	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☐
	(2)	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.	☒
	(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 EIRP of -27 dBm/MHz.	☒
	(4)	For transmitters operating in the 5.725-5.825 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 EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.	☐
Test Setup			
Procedure	789033 D02 General UNII Test Procedures New Rules v01, II.F. Method SA-1 <u>Band Edge measurement:</u> - For average emissions measurements, follow the procedures described in section II.G.6., "Procedures for Average Unwanted Emissions Measurements above 1000 MHz", except for the following changes: - Set RBW=100kHz - Set VBW=300kHz - Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.		
Remark	Antenna gain was added to the offset.		
Result	☒ Pass ☐ Fail		

Test Data ☐ Yes (See below) ☒ N/A
 Test Plot ☒ Yes (See below) ☐ N/A

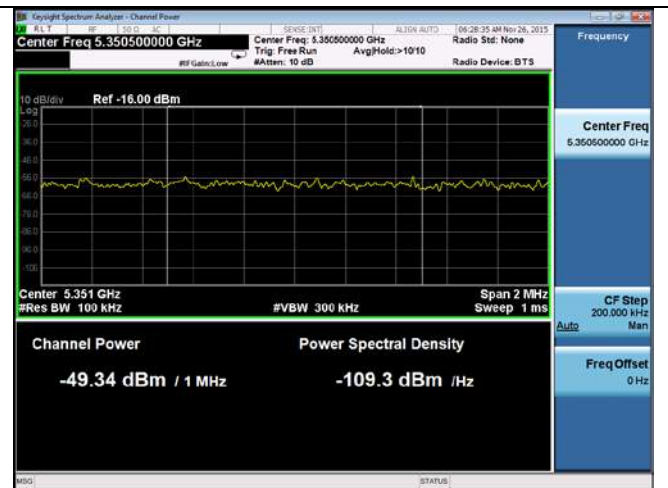
Test was done by *Gary Chou* at *RF Test Site*.

Test Plots
5.3 GHz band:

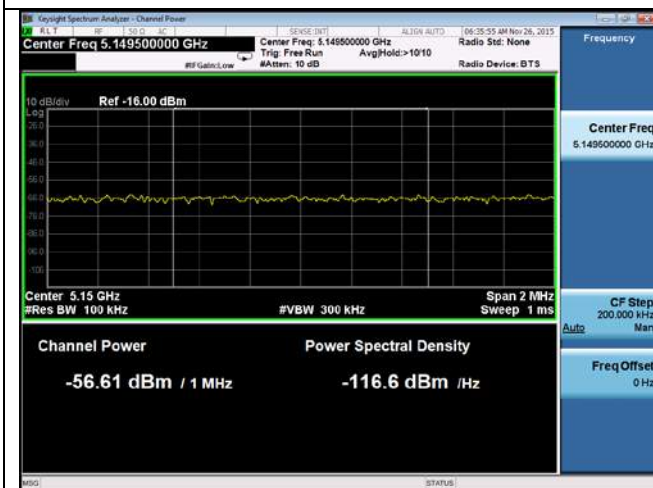




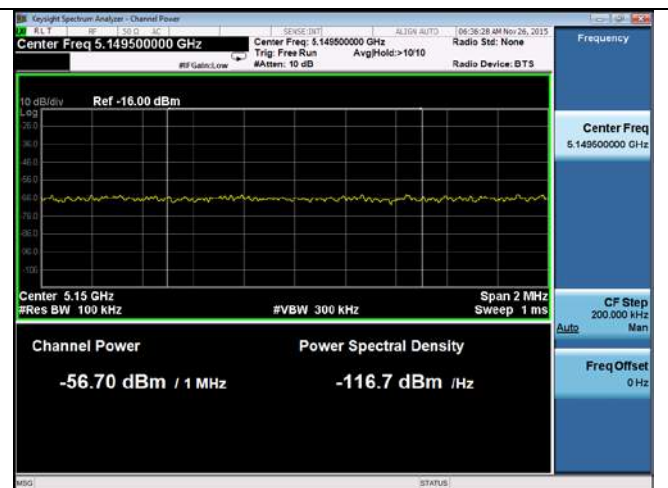
Band Edge -802.11a-5320M-chain3



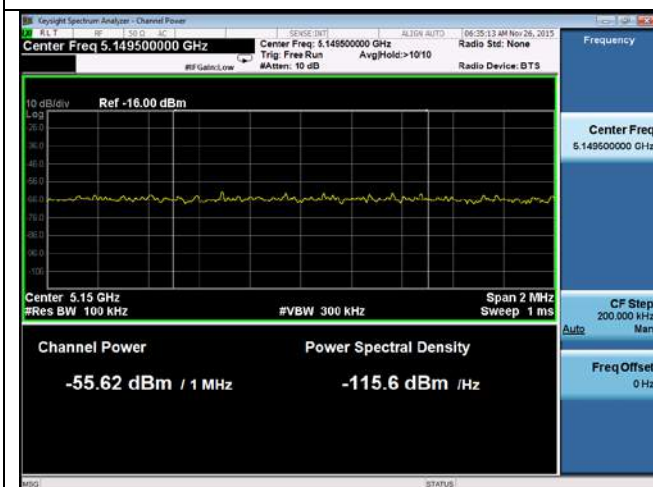
Band Edge -802.11a-5320M-chain4



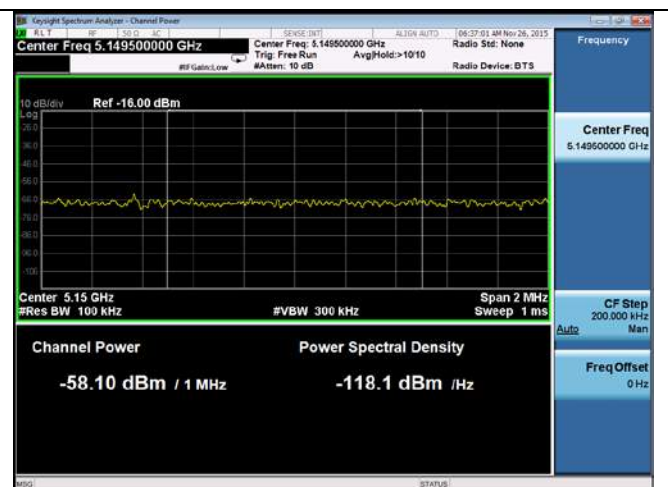
Band Edge -802.11n-20M-5260M-chain1



Band Edge -802.11n-20M-5260M-chain2



Band Edge -802.11n-20M-5260M-chain3



Band Edge -802.11n-20M-5260M-chain4