

NORTHWEST EMC

ProSoft Technology, Inc.

RLX2-IHNF

RLX2-IHNF-W

RLX2-IHNF-WC

FCC 15.207:2015

FCC15.407:2015

(5.8GHz Band)

Report # PROS0221.1



NVLAP Lab Code: 201049-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America. This Report may only be duplicated in its entirety

CERTIFICATE OF TEST

Last Date of Test: June 10, 2015
ProSoft Technology, Inc.
Model: RLX2-IHNF

Radio Equipment Testing

Standards

Specification	Method
FCC 15.207:2015	ANSI C63.10:2009
FCC 15.407:2015	ANSI C63.10:2009

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	AC Powerline Conducted Emissions	Yes	Pass	
6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	
6.8	Frequency Stability	Yes	Pass	
6.9.1	Occupied Bandwidth	Yes	Pass	
6.10.3	Peak Transmit Power	Yes	Pass	
6.11.1	Peak Power Spectral Density	Yes	Pass	
7.5	Duty Cycle	Yes	N/A	Characterization of radio operation.

Deviations From Test Standards

None

Approved By:



Jeremiah Darden, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

REVISION HISTORY

Revision Number		Description	Date	Page Number
00		None		

ACCREDITATIONS AND AUTHORIZATIONS

United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIP / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>
<http://gsi.nist.gov/global/docs/cabs/designations.html>

MEASUREMENT UNCERTAINTY

Measurement Uncertainty

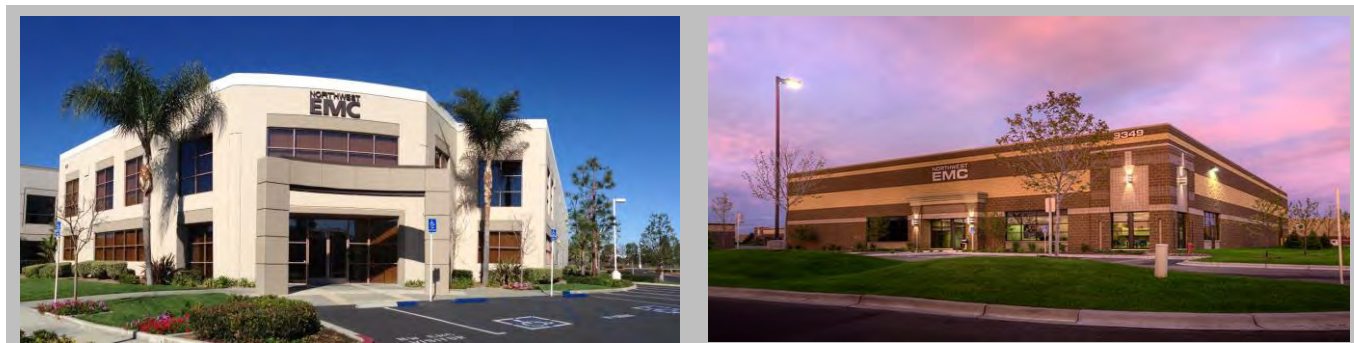
When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

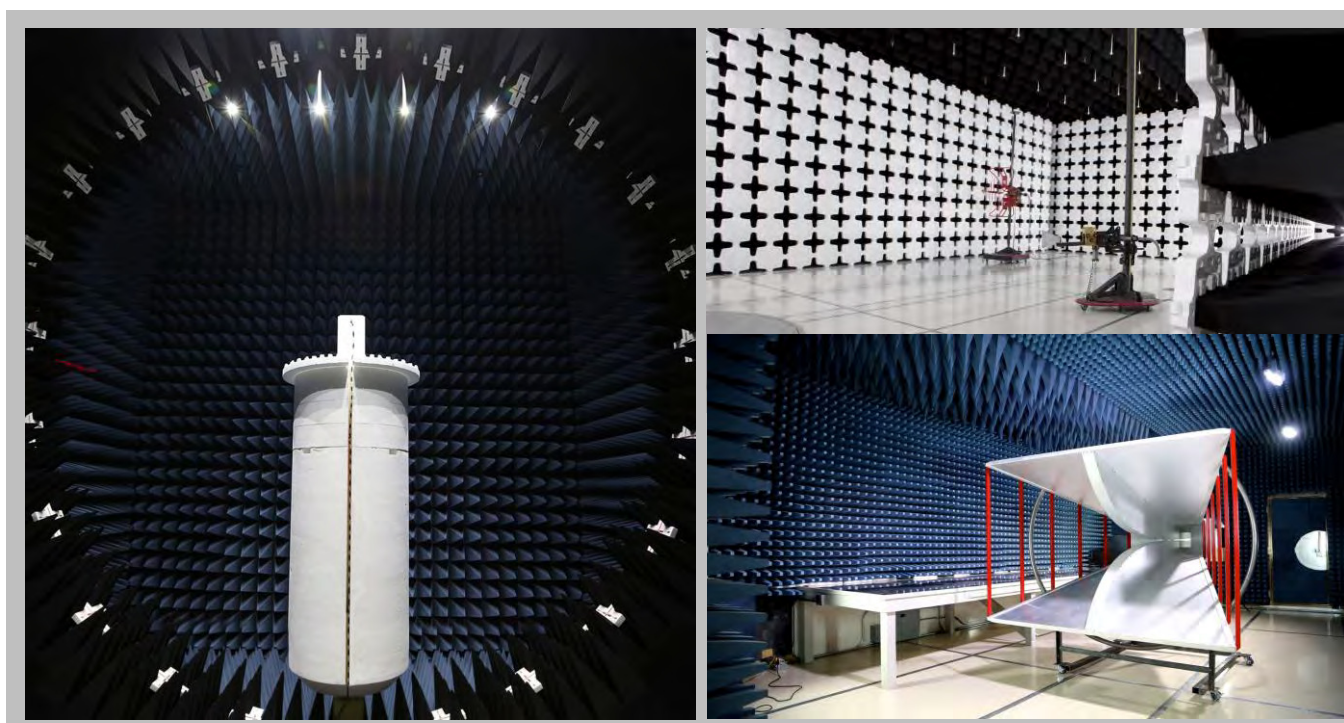
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	4.7 dB	-4.7 dB
AC Powerline Conducted Emissions (dB)	2.9 dB	-2.9 dB

FACILITIES



California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120 th Ave NE Bothell, WA 9801 (425)984-6600
NVLAP					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
Industry Canada					
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1
BSMI					
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRR, MIC, MOC, NCC, OFCA					
US0158	US0175	N/A	US0017	US0191	US0157



PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	ProSoft Technology, Inc.
Address:	5201 Truxtun Avenue, 3rd Floor
City, State, Zip:	Bakersfield, CA 93309
Test Requested By:	Frank Hardy
Model:	RLX2-IHNF
First Date of Test:	May 11, 2015
Last Date of Test:	May 27, 2015
Receipt Date of Samples:	May 11, 2015
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

802.11 abgn, 2x2 MIMO radio module with one antenna type.

RLX2-IHNF, RLX2-IHNF-W and RLX2-IHNF-WC use the same radio. The outer enclosure on RLX2-IHNF is different from RLX2-IHNF-W and RLX2-IHNF-WC. The power termination on RLX2-IHNF-W and RLX2-IHNF-WC are different from one another. The RLX2-IHNF-W has a M12 termination; while RLX2-IHNF-WC has a conduit termination.

Testing Objective:

To demonstrate compliance of the 802.11 radio under FCC 15.407 for operation in the 5.8 GHz band.

CONFIGURATIONS

Configuration PROS0221- 1

Software/Firmware Running during test	
Description	Version
RadioLinx Industrial Hotspot Browser	3.1.23

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
802.11abgn Fast Industrial Hopspot	ProSoft Technology, Inc.	RLX2-IHNF	000D8DF095CE
AC/DC Power Supply	GME	GFP241DA-1217B-1	1309-0001954

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host Laptop	Dell	PP05L	CN-0G5152-48643-483-5893
Host Laptop Power Supply	Dell	DA65NS0-00	CN-0CF745-48661-62F-1Z7L

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	1.3m	No	802.11abgn Fast Industrial Hopspot	AC/DC Power Supply
Ethernet Cable	No	3.0m	No	802.11abgn Fast Industrial Hopspot	Host Laptop
AC Cable	No	1.0m	No	AC Mains	Host Laptop Power Supply
DC Cable	No	1.8m	Yes	Host Laptop	Host Laptop Power Supply

CONFIGURATIONS

Configuration PROS0221- 2

Software/Firmware Running during test	
Description	Version
RadioLinx Industrial Hotspot Browser	3.1.23

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
802.11abgn Fast Industrial Hopspot	ProSoft Technology, Inc.	RLX2-IHNF	000D8DF095CE
AC/DC Power Supply	GME	GFP241DA-1217B-1	1309-0001954

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host Laptop	Dell	PP05L	CN-0G5152-48643-483-5893
Host Laptop Power Supply	Dell	DA65NS0-00	CN-0CF745-48661-62F-1Z7L
2 dBi Omni-Directional Stub Antenna (3 ea)	Generic	A2502S-OA	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	1.3m	No	802.11abgn Fast Industrial Hopspot	AC/DC Power Supply
Ethernet Cable	No	3.0m	No	802.11abgn Fast Industrial Hopspot	Host Laptop
AC Cable	No	1.0m	No	AC Mains	Host Laptop Power Supply
DC Cable	No	1.8m	Yes	Host Laptop	Host Laptop Power Supply
Serial Cable	No	3.0m	No	802.11abgn Fast Industrial Hopspot	Unterminated

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	5/11/2015	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	5/11/2015	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	5/11/2015	Peak Transmit Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	5/11/2015	Peak Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	5/20/2015	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	5/27/2015	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Continuously Transmitting 802.11an: Low Ch. 149 (5745MHz), 6Mbps

Continuously Transmitting 802.11an: Mid Ch. 157 (5785MHz), 6Mbps

Continuously Transmitting 802.11an: High Ch. 165 (5825MHz), 6Mbps

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

PROS0221 - 2

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar Electronics	9252-50-24-BNC	LIB	1/29/2015	12 mo
LISN	Solar Electronics	9252-50-24-BNC	LIA	3/4/2015	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	1/27/2015	12 mo
OC06 Cables	N/A	Telecom Cables	OCP	8/15/2014	12 mo
Attenuator	Pasternack	6N10W-20	AWC	12/4/2014	12 mo
Spectrum Analyzer	Keysight	N9010A	AFM	1/28/2015	12 mo

MEASUREMENT BANDWIDTHS

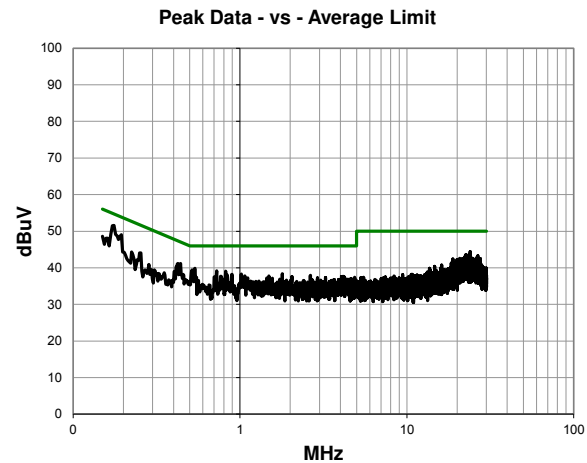
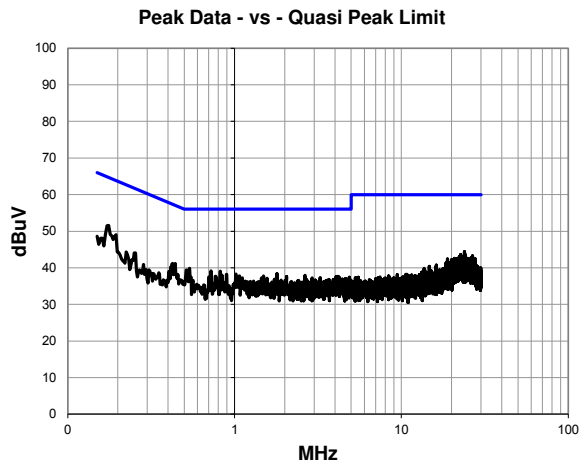
Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10-2009.

Work Order:	PROS0221	Date:	05/27/15				
Project:	None	Temperature:	22.5 °C				
Job Site:	OC12	Humidity:	46.8% RH				
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar				
EUT:	RLX2-IHNF-A						
Configuration:	2						
Customer:	ProSoft Technology, Inc.						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Continuously Transmitting 802.11an: Low Ch. 149 (5745MHz), 6Mbps						
Deviations:	None						
Comments:	None						
Test Specifications		Test Method					
FCC 15.207:2015		ANSI C63.10:2009					
Run #	13	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



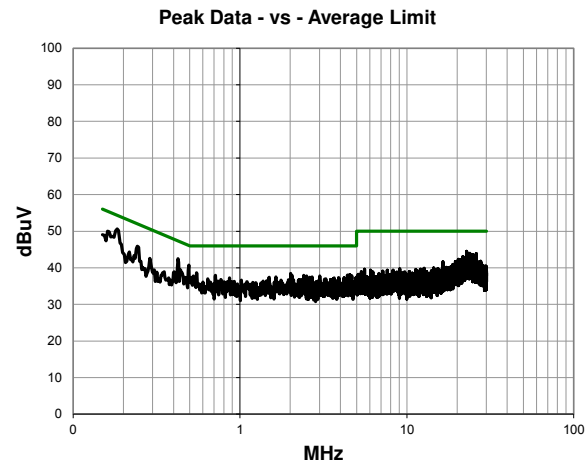
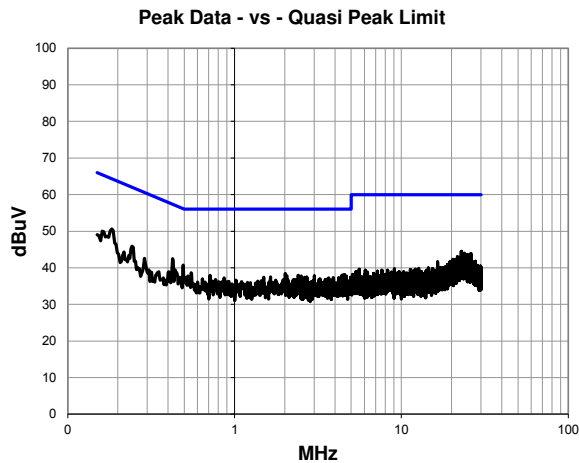
Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.176	31.0	20.6	51.6	64.7	-13.1
23.923	22.7	21.7	44.4	60.0	-15.6
0.441	20.9	20.3	41.2	57.0	-15.8
0.538	19.6	20.3	39.9	56.0	-16.1
0.426	20.9	20.3	41.2	57.3	-16.1
23.997	22.1	21.7	43.8	60.0	-16.2
22.621	22.1	21.5	43.6	60.0	-16.4
0.516	19.1	20.3	39.4	56.0	-16.6
26.661	21.2	22.1	43.3	60.0	-16.7
0.725	18.9	20.3	39.2	56.0	-16.8
0.822	18.8	20.3	39.1	56.0	-16.9
22.288	21.6	21.5	43.1	60.0	-16.9
22.919	21.4	21.6	43.0	60.0	-17.0
24.232	21.2	21.7	42.9	60.0	-17.1
22.441	21.3	21.5	42.8	60.0	-17.2
22.796	21.2	21.6	42.8	60.0	-17.2
23.258	21.1	21.6	42.7	60.0	-17.3
26.113	20.7	22.0	42.7	60.0	-17.3
24.844	20.8	21.8	42.6	60.0	-17.4
20.766	21.2	21.4	42.6	60.0	-17.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.176	31.0	20.6	51.6	54.7	-3.1
23.923	22.7	21.7	44.4	50.0	-5.6
0.441	20.9	20.3	41.2	47.0	-5.8
0.538	19.6	20.3	39.9	46.0	-6.1
0.426	20.9	20.3	41.2	47.3	-6.1
23.997	22.1	21.7	43.8	50.0	-6.2
22.621	22.1	21.5	43.6	50.0	-6.4
0.516	19.1	20.3	39.4	46.0	-6.6
26.661	21.2	22.1	43.3	50.0	-6.7
0.725	18.9	20.3	39.2	46.0	-6.8
0.822	18.8	20.3	39.1	46.0	-6.9
22.288	21.6	21.5	43.1	50.0	-6.9
22.919	21.4	21.6	43.0	50.0	-7.0
24.232	21.2	21.7	42.9	50.0	-7.1
22.441	21.3	21.5	42.8	50.0	-7.2
22.796	21.2	21.6	42.8	50.0	-7.2
23.258	21.1	21.6	42.7	50.0	-7.3
26.113	20.7	22.0	42.7	50.0	-7.3
24.844	20.8	21.8	42.6	50.0	-7.4
20.766	21.2	21.4	42.6	50.0	-7.4

Work Order:	PROS0221	Date:	05/27/15				
Project:	None	Temperature:	22.5 °C				
Job Site:	OC12	Humidity:	46.8% RH				
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar				
EUT:	RLX2-IHNF-A						
Configuration:	2						
Customer:	ProSoft Technology, Inc.						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Continuously Transmitting 802.11an: Low Ch. 149 (5745MHz), 6Mbps						
Deviations:	None						
Comments:	None						
Test Specifications		Test Method					
FCC 15.207:2015		ANSI C63.10:2009					
Run #	14	Line:	High Line	Ext. Attenuation:	20	Results	Pass

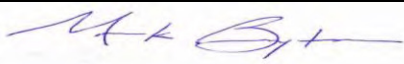


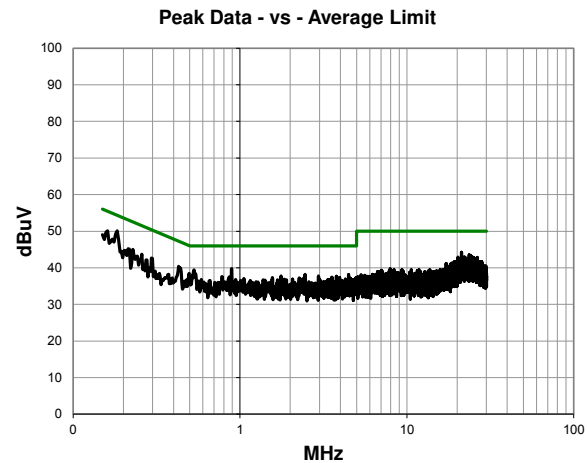
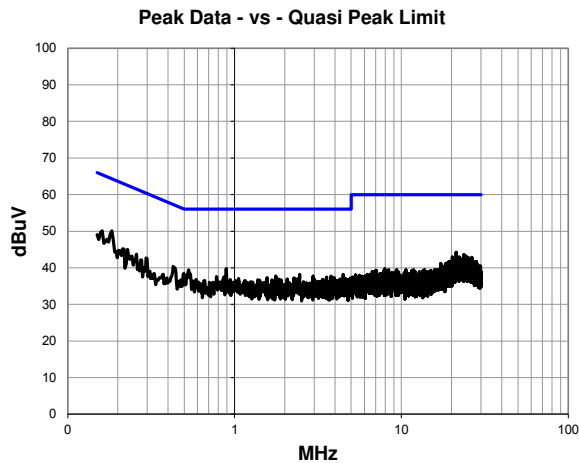
Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.184	30.0	20.6	50.6	64.3	-13.7
0.426	22.2	20.3	42.5	57.3	-14.8
0.493	20.4	20.3	40.7	56.1	-15.4
22.837	22.9	21.6	44.5	60.0	-15.5
23.811	22.3	21.7	44.0	60.0	-16.0
0.243	25.5	20.4	45.9	62.0	-16.1
26.101	21.9	22.0	43.9	60.0	-16.1
24.796	21.8	21.8	43.6	60.0	-16.4
23.859	21.9	21.7	43.6	60.0	-16.4
23.844	21.9	21.7	43.6	60.0	-16.4
24.781	21.7	21.8	43.5	60.0	-16.5
24.079	21.6	21.7	43.3	60.0	-16.7
25.198	21.4	21.8	43.2	60.0	-16.8
25.001	21.4	21.8	43.2	60.0	-16.8
24.870	21.4	21.8	43.2	60.0	-16.8
24.117	21.4	21.7	43.1	60.0	-16.9
21.669	21.6	21.4	43.0	60.0	-17.0
24.549	21.2	21.8	43.0	60.0	-17.0
24.452	21.2	21.7	42.9	60.0	-17.1
25.034	21.1	21.8	42.9	60.0	-17.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.184	30.0	20.6	50.6	54.3	-3.7
0.426	22.2	20.3	42.5	47.3	-4.8
0.493	20.4	20.3	40.7	46.1	-5.4
22.837	22.9	21.6	44.5	50.0	-5.5
23.811	22.3	21.7	44.0	50.0	-6.0
0.243	25.5	20.4	45.9	52.0	-6.1
26.101	21.9	22.0	43.9	50.0	-6.1
24.796	21.8	21.8	43.6	50.0	-6.4
23.859	21.9	21.7	43.6	50.0	-6.4
23.844	21.9	21.7	43.6	50.0	-6.4
24.781	21.7	21.8	43.5	50.0	-6.5
24.079	21.6	21.7	43.3	50.0	-6.7
25.198	21.4	21.8	43.2	50.0	-6.8
25.001	21.4	21.8	43.2	50.0	-6.8
24.870	21.4	21.8	43.2	50.0	-6.8
24.117	21.4	21.7	43.1	50.0	-6.9
21.669	21.6	21.4	43.0	50.0	-7.0
24.549	21.2	21.8	43.0	50.0	-7.0
24.452	21.2	21.7	42.9	50.0	-7.1
25.034	21.1	21.8	42.9	50.0	-7.1

Work Order:	PROS0221	Date:	05/27/15				
Project:	None	Temperature:	22.5 °C				
Job Site:	OC12	Humidity:	46.8% RH				
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar				
EUT:	RLX2-IHNF-A						
Configuration:	2						
Customer:	ProSoft Technology, Inc.						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Continuously Transmitting 802.11an: Mid Ch. 157 (5785MHz), 6Mbps						
Deviations:	None						
Comments:	None						
Test Specifications		Test Method					
FCC 15.207:2015		ANSI C63.10:2009					
Run #	15	Line:	High Line	Ext. Attenuation:	20	Results	Pass



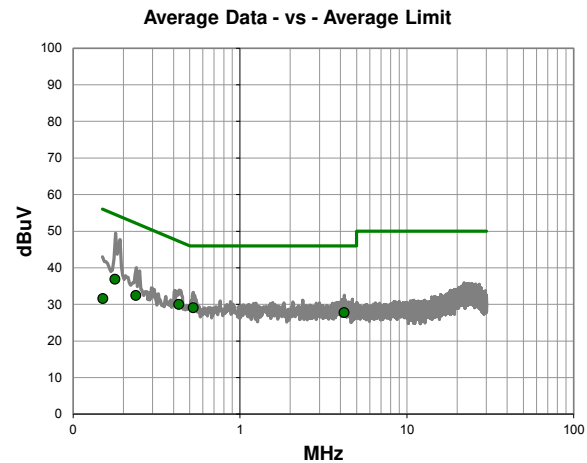
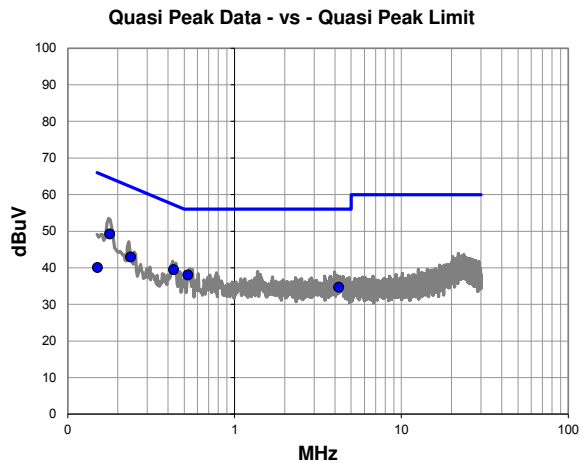
Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.184	29.5	20.6	50.1	64.3	-14.2
0.161	29.5	20.6	50.1	65.4	-15.3
21.307	22.8	21.4	44.2	60.0	-15.8
0.892	19.5	20.3	39.8	56.0	-16.2
23.695	21.9	21.7	43.6	60.0	-16.4
24.079	21.7	21.7	43.4	60.0	-16.6
0.531	19.1	20.3	39.4	56.0	-16.6
0.430	20.1	20.3	40.4	57.3	-16.9
24.531	21.3	21.8	43.1	60.0	-16.9
20.222	21.6	21.3	42.9	60.0	-17.1
21.427	21.5	21.4	42.9	60.0	-17.1
22.154	21.4	21.5	42.9	60.0	-17.1
21.811	21.4	21.4	42.8	60.0	-17.2
26.392	20.8	22.0	42.8	60.0	-17.2
25.079	21.0	21.8	42.8	60.0	-17.2
22.333	21.3	21.5	42.8	60.0	-17.2
23.725	21.1	21.7	42.8	60.0	-17.2
24.616	21.0	21.8	42.8	60.0	-17.2
21.595	21.2	21.4	42.6	60.0	-17.4
24.225	20.9	21.7	42.6	60.0	-17.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.184	29.5	20.6	50.1	54.3	-4.2
0.161	29.5	20.6	50.1	55.4	-5.3
21.307	22.8	21.4	44.2	50.0	-5.8
0.892	19.5	20.3	39.8	46.0	-6.2
23.695	21.9	21.7	43.6	50.0	-6.4
24.079	21.7	21.7	43.4	50.0	-6.6
0.531	19.1	20.3	39.4	46.0	-6.6
0.430	20.1	20.3	40.4	47.3	-6.9
24.531	21.3	21.8	43.1	50.0	-6.9
20.222	21.6	21.3	42.9	50.0	-7.1
21.427	21.5	21.4	42.9	50.0	-7.1
22.154	21.4	21.5	42.9	50.0	-7.1
21.811	21.4	21.4	42.8	50.0	-7.2
26.392	20.8	22.0	42.8	50.0	-7.2
25.079	21.0	21.8	42.8	50.0	-7.2
22.333	21.3	21.5	42.8	50.0	-7.2
23.725	21.1	21.7	42.8	50.0	-7.2
24.616	21.0	21.8	42.8	50.0	-7.2
21.595	21.2	21.4	42.6	50.0	-7.4
24.225	20.9	21.7	42.6	50.0	-7.4

Work Order:	PROS0221	Date:	05/27/15				
Project:	None	Temperature:	22.5 °C				
Job Site:	OC12	Humidity:	46.8% RH				
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar				
EUT:	RLX2-IHNF-A						
Configuration:	2						
Customer:	ProSoft Technology, Inc.						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Continuously Transmitting 802.11an: Mid Ch. 157 (5785MHz), 6Mbps						
Deviations:	None						
Comments:	None						
Test Specifications		Test Method					
FCC 15.207:2015		ANSI C63.10:2009					
Run #	16	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

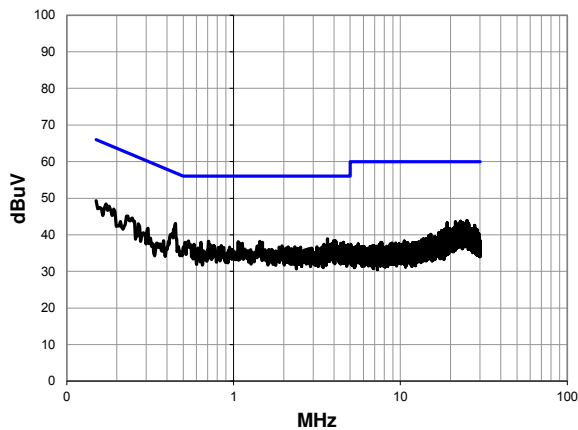
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.178	28.7	20.6	49.3	64.6	-15.3
0.430	19.2	20.3	39.5	57.2	-17.7
0.525	17.8	20.3	38.1	56.0	-17.9
0.238	22.6	20.4	43.0	62.2	-19.2
4.211	14.2	20.5	34.7	56.0	-21.3
0.151	19.6	20.5	40.1	66.0	-25.9

Average Data - vs - Average Limit

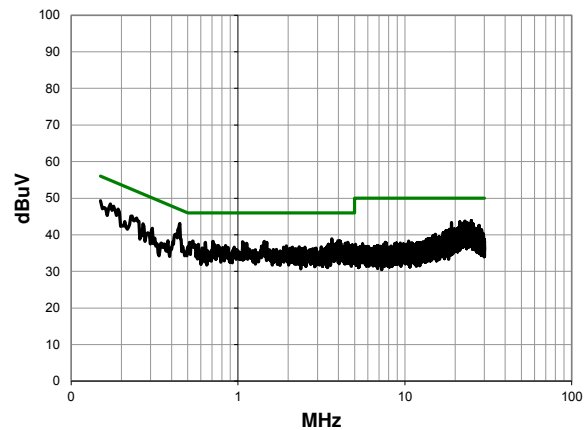
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.525	8.8	20.3	29.1	46.0	-16.9
0.430	9.7	20.3	30.0	47.2	-17.2
0.178	16.3	20.6	36.9	54.6	-17.7
4.211	7.3	20.5	27.8	46.0	-18.2
0.238	12.1	20.4	32.5	52.2	-19.7
0.151	11.1	20.5	31.6	56.0	-24.4

Work Order:	PROS0221	Date:	05/27/15				
Project:	None	Temperature:	22.5 °C				
Job Site:	OC12	Humidity:	46.8% RH				
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar				
EUT:	RLX2-IHNF-A						
Configuration:	2						
Customer:	ProSoft Technology, Inc.						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Continuously Transmitting 802.11an: High Ch. 165 (5825MHz), 6Mbps						
Deviations:	None						
Comments:	None						
Test Specifications		Test Method					
FCC 15.207:2015		ANSI C63.10:2009					
Run #	17	Line:	Neutral	Ext. Attenuation:	20	Results	Pass

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



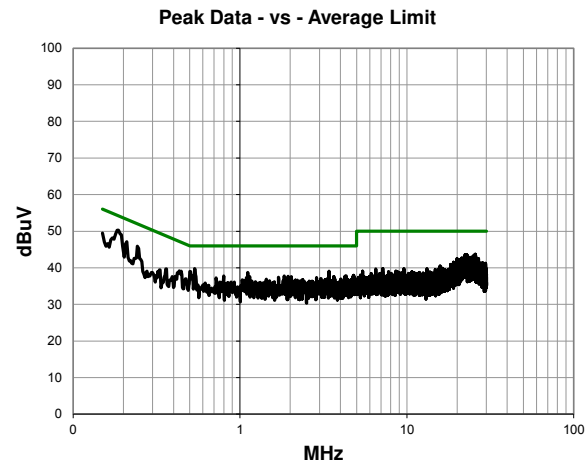
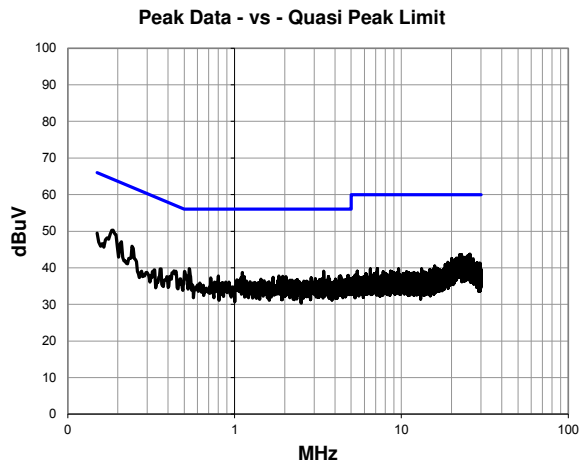
Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.448	22.8	20.3	43.1	56.9	-13.8
25.042	22.1	21.8	43.9	60.0	-16.1
22.912	22.1	21.6	43.7	60.0	-16.3
0.172	27.8	20.6	48.4	64.8	-16.4
21.397	22.1	21.4	43.5	60.0	-16.5
23.161	21.8	21.6	43.4	60.0	-16.6
23.702	21.7	21.7	43.4	60.0	-16.6
0.150	28.8	20.5	49.3	66.0	-16.7
19.050	22.0	21.3	43.3	60.0	-16.7
22.427	21.7	21.5	43.2	60.0	-16.8
24.232	21.4	21.7	43.1	60.0	-16.9
25.654	21.1	21.9	43.0	60.0	-17.0
3.661	18.4	20.5	38.9	56.0	-17.1
25.590	21.0	21.9	42.9	60.0	-17.1
22.703	21.2	21.5	42.7	60.0	-17.3
23.188	21.1	21.6	42.7	60.0	-17.3
22.800	21.1	21.6	42.7	60.0	-17.3
22.643	21.1	21.5	42.6	60.0	-17.4
24.053	20.9	21.7	42.6	60.0	-17.4
22.247	21.1	21.5	42.6	60.0	-17.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.448	22.8	20.3	43.1	46.9	-3.8
25.042	22.1	21.8	43.9	50.0	-6.1
22.912	22.1	21.6	43.7	50.0	-6.3
0.172	27.8	20.6	48.4	54.8	-6.4
21.397	22.1	21.4	43.5	50.0	-6.5
23.161	21.8	21.6	43.4	50.0	-6.6
23.702	21.7	21.7	43.4	50.0	-6.6
0.150	28.8	20.5	49.3	56.0	-6.7
19.050	22.0	21.3	43.3	50.0	-6.7
22.427	21.7	21.5	43.2	50.0	-6.8
24.232	21.4	21.7	43.1	50.0	-6.9
25.654	21.1	21.9	43.0	50.0	-7.0
3.661	18.4	20.5	38.9	46.0	-7.1
25.590	21.0	21.9	42.9	50.0	-7.1
22.703	21.2	21.5	42.7	50.0	-7.3
23.188	21.1	21.6	42.7	50.0	-7.3
22.800	21.1	21.6	42.7	50.0	-7.3
22.643	21.1	21.5	42.6	50.0	-7.4
24.053	20.9	21.7	42.6	50.0	-7.4
22.247	21.1	21.5	42.6	50.0	-7.4

Work Order:	PROS0221	Date:	05/27/15				
Project:	None	Temperature:	22.5 °C				
Job Site:	OC12	Humidity:	46.8% RH				
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar				
EUT:	RLX2-IHNF-A						
Configuration:	2						
Customer:	ProSoft Technology, Inc.						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Continuously Transmitting 802.11an: High Ch. 165 (5825MHz), 6Mbps						
Deviations:	None						
Comments:	None						
Test Specifications		Test Method					
FCC 15.207:2015		ANSI C63.10:2009					
Run #	18	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.184	29.7	20.6	50.3	64.3	-14.0
0.210	26.7	20.5	47.2	63.2	-16.1
0.243	25.5	20.4	45.9	62.0	-16.1
0.534	19.5	20.3	39.8	56.0	-16.2
25.725	21.8	21.9	43.7	60.0	-16.3
22.833	22.1	21.6	43.7	60.0	-16.3
25.568	21.7	21.9	43.6	60.0	-16.4
22.330	22.0	21.5	43.5	60.0	-16.5
0.150	29.0	20.5	49.5	66.0	-16.5
22.956	21.9	21.6	43.5	60.0	-16.5
25.780	21.4	21.9	43.3	60.0	-16.7
25.157	21.4	21.8	43.2	60.0	-16.8
24.893	21.4	21.8	43.2	60.0	-16.8
22.371	21.6	21.5	43.1	60.0	-16.9
3.426	18.6	20.5	39.1	56.0	-16.9
25.870	21.1	21.9	43.0	60.0	-17.0
0.501	18.7	20.3	39.0	56.0	-17.0
22.714	21.4	21.5	42.9	60.0	-17.1
22.479	21.4	21.5	42.9	60.0	-17.1
23.766	21.2	21.7	42.9	60.0	-17.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.184	29.7	20.6	50.3	54.3	-4.0
0.210	26.7	20.5	47.2	53.2	-6.1
0.243	25.5	20.4	45.9	52.0	-6.1
0.534	19.5	20.3	39.8	46.0	-6.2
25.725	21.8	21.9	43.7	50.0	-6.3
22.833	22.1	21.6	43.7	50.0	-6.3
25.568	21.7	21.9	43.6	50.0	-6.4
22.330	22.0	21.5	43.5	50.0	-6.5
0.150	29.0	20.5	49.5	56.0	-6.5
22.956	21.9	21.6	43.5	50.0	-6.5
25.780	21.4	21.9	43.3	50.0	-6.7
25.157	21.4	21.8	43.2	50.0	-6.8
24.893	21.4	21.8	43.2	50.0	-6.8
22.371	21.6	21.5	43.1	50.0	-6.9
3.426	18.6	20.5	39.1	46.0	-6.9
25.870	21.1	21.9	43.0	50.0	-7.0
0.501	18.7	20.3	39.0	46.0	-7.0
22.714	21.4	21.5	42.9	50.0	-7.1
22.479	21.4	21.5	42.9	50.0	-7.1
23.766	21.2	21.7	42.9	50.0	-7.1

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

CHANNELS OF OPERATION

Low Ch. 149 (5745MHz)
Mid Ch. 157 (5785MHz)
High Ch. 165 (5825MHz)
Ch. 149/153 (5755MHz)
Ch. 157/161 (5795MHz)

MODES OF OPERATION

6 Mbps
36 Mbps
54 Mbps
MCS0
MCS7

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

PROS0221 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	40000 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Cable	Fairview Microwave	SCA1814-0505-72	OC2	6/23/2014	12 mo
Antenna, Horn	EMCO	3115	AHA	NCR	0 mo
Notch Filter, 5.725-5.875 GHz	Micro-Tronics	BRC50705	HFQ	3/4/2015	12 mo
Low Pass Filter, 0 - 1000 MHz	Micro-Tronics	LPM50004	LFC	11/14/2014	12 mo
Cable	D-Coax	None	OC4	12/16/2014	12 mo
Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P-HS	PAN	12/16/2014	12 mo
Antenna, Double Ridge Guide Horn	A.H. Systems, Inc.	SAS-574	AXV	4/9/2014	24 mo
OC07 Cables	ESM Cable Corp.	8-18GHz cables	OCY	1/28/2015	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVP	9/15/2014	12 mo
Antenna, Horn	EMCO	3160-08	AHK	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVL	9/15/2014	12 mo
Antenna, Horn	ETS	3160-07	AHX	NCR	0 mo
OC07 Cables	ESM Cable Corp.	1-8GHz cables	OCX	1/28/2015	12 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVJ	9/15/2014	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIR	6/4/2014	24 mo
OC07 Cables	ESM Cable Corp.	30-1GHz cables	OCW	7/15/2014	12 mo
Pre-Amplifier	Miteq	AM-1402	AOZ	7/15/2014	12 mo
Antenna, Biconilog	EMCO	3142	AXA	11/25/2013	24 mo
Spectrum Analyzer	Agilent	E4446A	AAY	10/27/2014	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

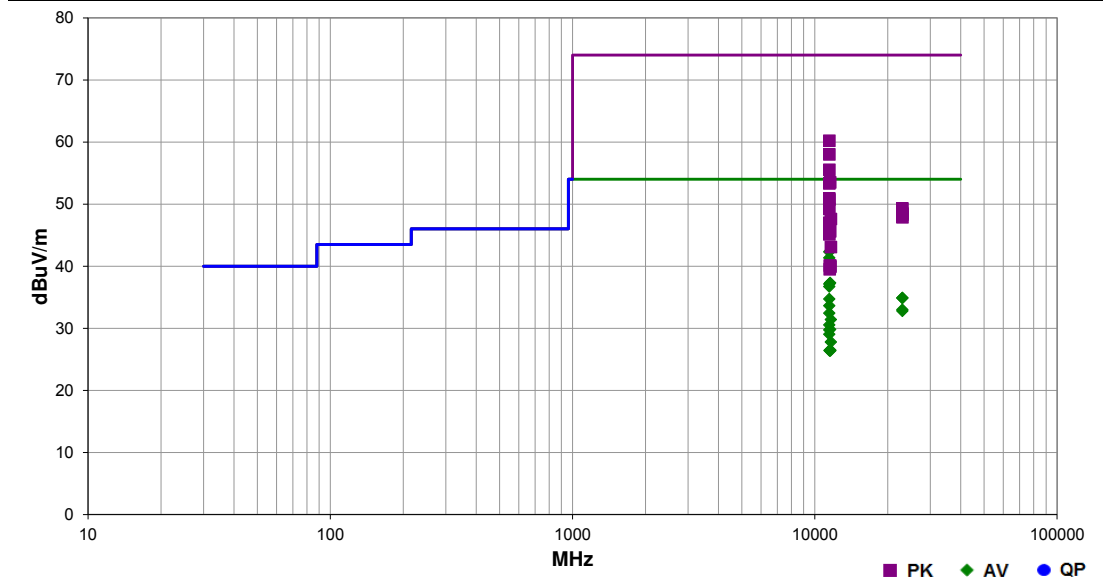
TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT were tested. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. Measurements were made to satisfy the three requirements of 47 CFR 15.407: Field strength under 1GHz, Restricted Bands of 47 CFR 15.205, and EIRP of 47 CFR 15.407.

While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Work Order:	PROS0221	Date:	05/20/15	
Project:	None	Temperature:	22.3 °C	
Job Site:	OC07	Humidity:	46.4% RH	
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar	
EUT:	RLX2-IHNF-A	Tested by:	Mark Baytan	
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, data rate and orientation.			

Test Specifications	Test Method
FCC 15.209:2015	ANSI C63.10:2009
Run #	52
Test Distance (m)	3
Antenna Height(s)	1 to 4(m)
Results	Pass



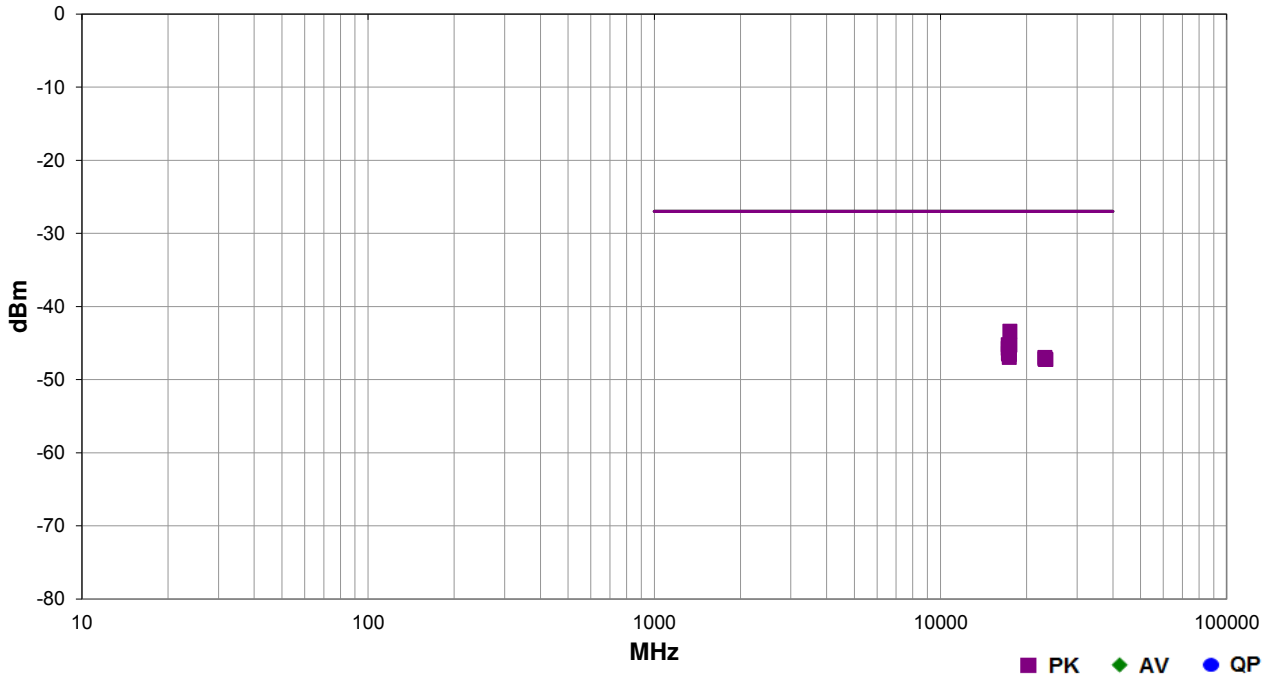
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
11485.830	51.1	-8.8	1.2	55.0	3.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
11485.890	50.1	-8.8	1.2	55.0	3.0	0.0	Horz	AV	0.0	41.3	54.0	-12.7	Low Ch. 149 (5745MHz), 36Mbps, EUT on side
11484.380	69.0	-8.8	1.2	55.0	3.0	0.0	Horz	PK	0.0	60.2	74.0	-13.8	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
11483.740	66.8	-8.8	1.2	55.0	3.0	0.0	Horz	PK	0.0	58.0	74.0	-16.0	Low Ch. 149 (5745MHz), 36Mbps, EUT on side
11568.540	45.8	-8.5	1.0	107.0	3.0	0.0	Horz	AV	0.0	37.3	54.0	-16.7	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
11485.800	45.9	-8.8	1.3	116.0	3.0	0.0	Vert	AV	0.0	37.1	54.0	-16.9	Low Ch. 149 (5745MHz), 36Mbps, EUT on side
11485.530	45.5	-8.8	1.3	116.0	3.0	0.0	Vert	AV	0.0	36.7	54.0	-17.3	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
11484.660	64.3	-8.8	1.3	116.0	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
22980.300	45.6	-10.7	1.0	206.0	3.0	0.0	Vert	AV	0.0	34.9	54.0	-19.1	Ch. 149/153 (5755MHz), MCS0, EUT on side
22979.970	45.6	-10.7	1.0	174.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	Ch. 149/153 (5755MHz), MCS0, EUT on side
11486.470	43.5	-8.8	1.2	55.0	3.0	0.0	Horz	AV	0.0	34.7	54.0	-19.3	Low Ch. 149 (5745MHz), 54Mbps, EUT on side
11485.460	42.4	-8.8	1.2	56.0	3.0	0.0	Horz	AV	0.0	33.6	54.0	-20.4	Low Ch. 149 (5745MHz), MCS0, EUT on side
11568.790	62.0	-8.5	1.0	107.0	3.0	0.0	Horz	PK	0.0	53.5	74.0	-20.5	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
11484.970	62.1	-8.8	1.3	116.0	3.0	0.0	Vert	PK	0.0	53.3	74.0	-20.7	Low Ch. 149 (5745MHz), 36Mbps, EUT on side
22980.020	43.7	-10.7	1.0	279.0	3.0	0.0	Horz	AV	0.0	33.0	54.0	-21.0	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
22980.160	43.5	-10.7	1.0	312.0	3.0	0.0	Vert	AV	0.0	32.8	54.0	-21.2	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
11486.410	41.2	-8.8	1.2	56.0	3.0	0.0	Horz	AV	0.0	32.4	54.0	-21.6	Low Ch. 149 (5745MHz), MCS7, EUT on side
11648.500	39.6	-8.2	1.0	91.0	3.0	0.0	Horz	AV	0.0	31.4	54.0	-22.6	High Ch. 165 (5825MHz), 6Mbps, EUT on side
11483.790	59.7	-8.8	1.2	56.0	3.0	0.0	Horz	PK	0.0	50.9	74.0	-23.1	Low Ch. 149 (5745MHz), MCS0, EUT on side
11485.670	59.5	-8.8	1.2	55.0	3.0	0.0	Horz	PK	0.0	50.7	74.0	-23.3	Low Ch. 149 (5745MHz), 54Mbps, EUT on side
11486.270	39.3	-8.8	1.3	116.0	3.0	0.0	Vert	AV	0.0	30.5	54.0	-23.5	Low Ch. 149 (5745MHz), 54Mbps, EUT on side
11568.500	38.3	-8.5	1.0	183.0	3.0	0.0	Vert	AV	0.0	29.8	54.0	-24.2	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
11484.710	38.5	-8.8	1.3	116.0	3.0	0.0	Vert	AV	0.0	29.7	54.0	-24.3	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
22980.050	60.0	-10.7	1.0	279.0	3.0	0.0	Horz	PK	0.0	49.3	74.0	-24.7	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
11486.380	58.0	-8.8	1.2	56.0	3.0	0.0	Horz	PK	0.0	49.2	74.0	-24.8	Low Ch. 149 (5745MHz), MCS7, EUT on side
11487.430	37.8	-8.8	1.3	116.0	3.0	0.0	Vert	AV	0.0	29.0	54.0	-25.0	Low Ch. 149 (5745MHz), MCS7, EUT on side
22980.090	59.2	-10.7	1.0	312.0	3.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
22979.960	59.0	-10.7	1.0	206.0	3.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	Ch. 149/153 (5755MHz), MCS0, EUT on side
22979.540	58.6	-10.7	1.0	174.0	3.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1	Ch. 149/153 (5755MHz), MCS0, EUT on side
11648.540	36.0	-8.2	1.0	13.0	3.0	0.0	Vert	AV	0.0	27.8	54.0	-26.2	High Ch. 165 (5825MHz), 6Mbps, EUT on side
11648.690	55.8	-8.2	1.0	91.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	High Ch. 165 (5825MHz), 6Mbps, EUT on side
11486.590	55.8	-8.8	1.3	116.0	3.0	0.0	Vert	PK	0.0	47.0	74.0	-27.0	Low Ch. 149 (5745MHz), 54Mbps, EUT on side

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
11588.500	34.9	-8.4	1.0	35.0	3.0	0.0	Horz	AV	0.0	26.5	54.0	-27.5	Ch. 157/161 (5795MHz), MCS0, EUT on side
11508.910	35.1	-8.7	1.0	241.0	3.0	0.0	Horz	AV	0.0	26.4	54.0	-27.6	Ch. 149/153 (5755MHz), MCS0, EUT on side
11508.690	35.1	-8.7	1.0	33.0	3.0	0.0	Vert	AV	0.0	26.4	54.0	-27.6	Ch. 149/153 (5755MHz), MCS0, EUT on side
11588.730	34.8	-8.4	1.5	144.0	3.0	0.0	Vert	AV	0.0	26.4	54.0	-27.6	Ch. 157/161 (5795MHz), MCS0, EUT on side
11487.320	54.4	-8.8	1.3	116.0	3.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	Low Ch. 149 (5745MHz), MCS0, EUT on side
11568.740	54.1	-8.5	1.0	183.0	3.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
11486.150	53.9	-8.8	1.3	116.0	3.0	0.0	Vert	PK	0.0	45.1	74.0	-28.9	Low Ch. 149 (5745MHz), MCS7, EUT on side
11648.860	51.3	-8.2	1.0	13.0	3.0	0.0	Vert	PK	0.0	43.1	74.0	-30.9	High Ch. 165 (5825MHz), 6Mbps, EUT on side
11508.860	48.8	-8.7	1.0	241.0	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	Ch. 149/153 (5755MHz), MCS0, EUT on side
11589.650	48.5	-8.4	1.5	144.0	3.0	0.0	Vert	PK	0.0	40.1	74.0	-33.9	Ch. 157/161 (5795MHz), MCS0, EUT on side
11591.400	48.3	-8.4	1.0	35.0	3.0	0.0	Horz	PK	0.0	39.9	74.0	-34.1	Ch. 157/161 (5795MHz), MCS0, EUT on side
11510.750	48.2	-8.7	1.0	33.0	3.0	0.0	Vert	PK	0.0	39.5	74.0	-34.5	Ch. 149/153 (5755MHz), MCS0, EUT on side

Work Order:	PROS0221	Date:	05/20/15	
Project:	None	Temperature:	22.3 °C	
Job Site:	OC07	Humidity:	46.4% RH	
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar	Tested by: Mark Baytan
EUT:	RLX2-IHNF-A			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, data rate and orientation.			

Test Specifications	Test Method
FCC 15.407:2015	ANSI C63.10:2009

Run #	55	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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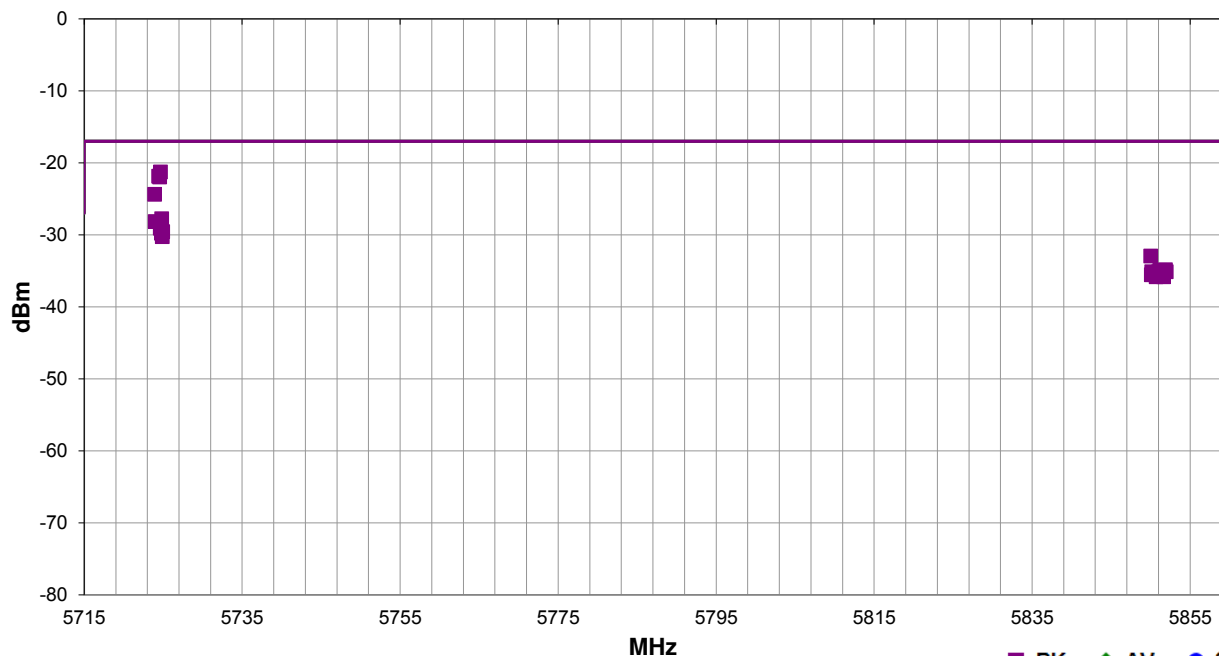


	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	17475.150	1.0	158.0	Horz	PK	4.58E-08	-43.4	-27.0	-26.4	High Ch. 165 (5825MHz), 6Mbps, EUT on side
	17235.000	1.0	159.0	Horz	PK	3.00E-08	-45.2	-27.0	-28.2	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
	17474.910	1.4	53.0	Vert	PK	2.96E-08	-45.3	-27.0	-28.3	High Ch. 165 (5825MHz), 6Mbps, EUT on side
	17235.040	1.0	68.0	Vert	PK	2.68E-08	-45.7	-27.0	-28.7	Low Ch. 149 (5745MHz), 6Mbps, EUT on side
	17354.890	1.0	84.0	Vert	PK	2.31E-08	-46.4	-27.0	-29.4	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
	17265.030	1.0	198.0	Horz	PK	2.29E-08	-46.4	-27.0	-29.4	Ch. 149/153 (5755MHz), MCS0, EUT on side
	17265.130	1.0	289.0	Vert	PK	2.29E-08	-46.4	-27.0	-29.4	Ch. 149/153 (5755MHz), MCS0, EUT on side
	17354.790	1.0	85.0	Horz	PK	2.20E-08	-46.6	-27.0	-29.6	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
	17384.710	1.0	121.0	Vert	PK	2.21E-08	-46.6	-27.0	-29.6	Ch. 157/161 (5795MHz), MCS0, EUT on side
	17384.990	1.0	312.0	Horz	PK	2.02E-08	-47.0	-27.0	-30.0	Ch. 157/161 (5795MHz), MCS0, EUT on side
	23139.760	1.0	270.0	Vert	PK	2.01E-08	-47.0	-27.0	-30.0	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
	23140.210	1.0	305.0	Horz	PK	1.92E-08	-47.2	-27.0	-30.2	Mid Ch. 157 (5785MHz), 6Mbps, EUT on side
	23299.940	1.0	0.0	Horz	PK	1.89E-08	-47.2	-27.0	-30.2	High Ch. 165 (5825MHz), 6Mbps, EUT on side
	23300.060	1.0	107.0	Vert	PK	1.89E-08	-47.2	-27.0	-30.2	High Ch. 165 (5825MHz), 6Mbps, EUT on side

Work Order:	PROS0221	Date:	05/20/15	
Project:	None	Temperature:	22.3 °C	
Job Site:	OC07	Humidity:	46.4% RH	
Serial Number:	000D8DF095CE	Barometric Pres.:	1011 mbar	
EUT:	RLX2-IHNF-A			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Continuously Transmitting 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, data rate and orientation.			

Test Specifications	Test Method
FCC 15.407:2015	ANSI C63.10:2009

Run #	43	Test Distance (m)	1	Antenna Height(s)	1 to 4(m)	Results	Pass
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Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5724.657	1.0	292.0	Vert	PK	7.47E-06	-21.3	-17.0	-4.3	Low Ch. 149/153 (5755MHz), 6Mbps, EUT Horz
5724.427	1.0	292.0	Vert	PK	6.51E-06	-21.9	-17.0	-4.9	Low Ch. 149/153 (5755MHz), 36Mbps, EUT Horz
5724.547	1.0	79.0	Horz	PK	6.36E-06	-22.0	-17.0	-5.0	Low Ch. 149/153 (5755MHz), 6Mbps, EUT Vert
5723.910	1.0	79.0	Horz	PK	3.66E-06	-24.4	-17.0	-7.4	Low Ch. 149/153 (5755MHz), 36Mbps, EUT Vert
5724.797	1.0	292.0	Horz	PK	1.67E-06	-27.8	-17.0	-10.8	Low Ch. 149/153 (5755MHz), MCS0, EUT Horz
5723.977	1.0	292.0	Vert	PK	1.52E-06	-28.2	-17.0	-11.2	Low Ch. 149/153 (5755MHz), MCS7, EUT Horz
5724.623	1.0	79.0	Horz	PK	1.24E-06	-29.1	-17.0	-12.1	Low Ch. 149/153 (5755MHz), MCS0, EUT Vert
5724.943	1.0	292.0	Vert	PK	1.10E-06	-29.6	-17.0	-12.6	Low Ch. 149/153 (5755MHz), 54Mbps, EUT Horz
5724.793	1.0	79.0	Horz	PK	1.06E-06	-29.8	-17.0	-12.8	Low Ch. 149/153 (5755MHz), 54Mbps, EUT Vert
5724.890	1.0	79.0	Horz	PK	9.40E-07	-30.3	-17.0	-13.3	Low Ch. 149/153 (5755MHz), MCS7, EUT Vert
5850.027	1.0	249.0	Horz	PK	5.08E-07	-32.9	-17.0	-15.9	High Ch. 157/161 (5795MHz), 6Mbps, EUT Vert
5851.880	1.0	95.0	Vert	PK	3.28E-07	-34.8	-17.0	-17.8	High Ch. 157/161 (5795MHz), 54Mbps, EUT Horz
5851.153	1.0	95.0	Vert	PK	3.21E-07	-34.9	-17.0	-17.9	High Ch. 157/161 (5795MHz), 36Mbps, EUT Horz
5851.983	1.0	153.0	Vert	PK	3.06E-07	-35.1	-17.0	-18.1	High Ch. 165 (5825MHz), MCS0, EUT Horz
5851.667	1.0	53.0	Horz	PK	3.06E-07	-35.1	-17.0	-18.1	High Ch. 165 (5825MHz), MCS7, EUT Vert
5851.010	1.0	95.0	Vert	PK	3.06E-07	-35.1	-17.0	-18.1	High Ch. 157/161 (5795MHz), 6Mbps, EUT Horz
5850.150	1.0	153.0	Vert	PK	3.06E-07	-35.1	-17.0	-18.1	High Ch. 165 (5825MHz), 36Mbps, EUT Horz

	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	5851.173	1.0	249.0	Horz	PK	2.99E-07	-35.2	-17.0	-18.2	High Ch. 157/161 (5795MHz), MCS0, EUT Vert
	5851.037	1.0	53.0	Horz	PK	2.99E-07	-35.2	-17.0	-18.2	High Ch. 165 (5825MHz), MCS0, EUT Vert
	5851.020	1.0	95.0	Vert	PK	2.99E-07	-35.2	-17.0	-18.2	High Ch. 157/161 (5795MHz), MCS0, EUT Horz
	5851.303	1.0	53.0	Horz	PK	2.93E-07	-35.3	-17.0	-18.3	High Ch. 165 (5825MHz), 54Mbps, EUT Vert
	5851.097	1.0	153.0	Vert	PK	2.86E-07	-35.4	-17.0	-18.4	High Ch. 165 (5825MHz), 6Mbps, EUT Vert
	5850.890	1.0	53.0	Horz	PK	2.86E-07	-35.4	-17.0	-18.4	High Ch. 165 (5825MHz), 6Mbps, EUT Horz
	5850.617	1.0	153.0	Vert	PK	2.86E-07	-35.4	-17.0	-18.4	High Ch. 165 (5825MHz), MCS7, EUT Horz
	5850.550	1.0	249.0	Horz	PK	2.86E-07	-35.4	-17.0	-18.4	High Ch. 157/161 (5795MHz), MCS7, EUT Vert
	5850.103	1.0	53.0	Horz	PK	2.79E-07	-35.5	-17.0	-18.5	High Ch. 165 (5825MHz), 36Mbps, EUT Vert
	5850.843	1.0	249.0	Horz	PK	2.73E-07	-35.6	-17.0	-18.6	High Ch. 157/161 (5795MHz), 54Mbps, EUT Vert
	5850.777	1.0	153.0	Vert	PK	2.73E-07	-35.6	-17.0	-18.6	High Ch. 165 (5825MHz), 54Mbps, EUT Horz
	5851.647	1.0	249.0	Horz	PK	2.61E-07	-35.8	-17.0	-18.8	High Ch. 157/161 (5795MHz), 36Mbps, EUT Vert
	5850.693	1.0	95.0	Vert	PK	2.61E-07	-35.8	-17.0	-18.8	High Ch. 157/161 (5795MHz), MCS7, EUT Horz

FREQUENCY STABILITY

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
MultiMeter	Fluke	79 III	MMD	2/4/2013	36
Humidity Temperature Chamber	Cincinnati Sub Zero (CSZ)	ZPHS-32-3.5-SCT/AC	TBE	NCR	12
Thermometer	Omega Engineering, Inc.	HH311	DUC	10/3/2014	36
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator, 20dB	Fairview Microwave	SA18E-10	TKS	4/8/2015	12
40GHz DC Block	Fairview Microwave	SD3379	AMN	4/8/2015	12
Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

A direct connect measurement was made between the EUT's antenna cable and a spectrum analyzer. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

Measurements were made at the edges of the main transmit bands as called out on the data sheets. Testing was done with modulation.

The primary supply voltage was varied from 85 % to 115% of the nominal voltage Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-40° to +70°C) and at 10°C intervals.

Per the requirements of FCC 15.407:

"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."

No specific limits are provided in either FCC 15.407, the product specific rule part, or FCC 2.1055, the equipment authorization procedure for testing frequency stability. While there are no limits called out, any results less than 100ppm will still allow the radio to be operating within the band.

FREQUENCY STABILITY

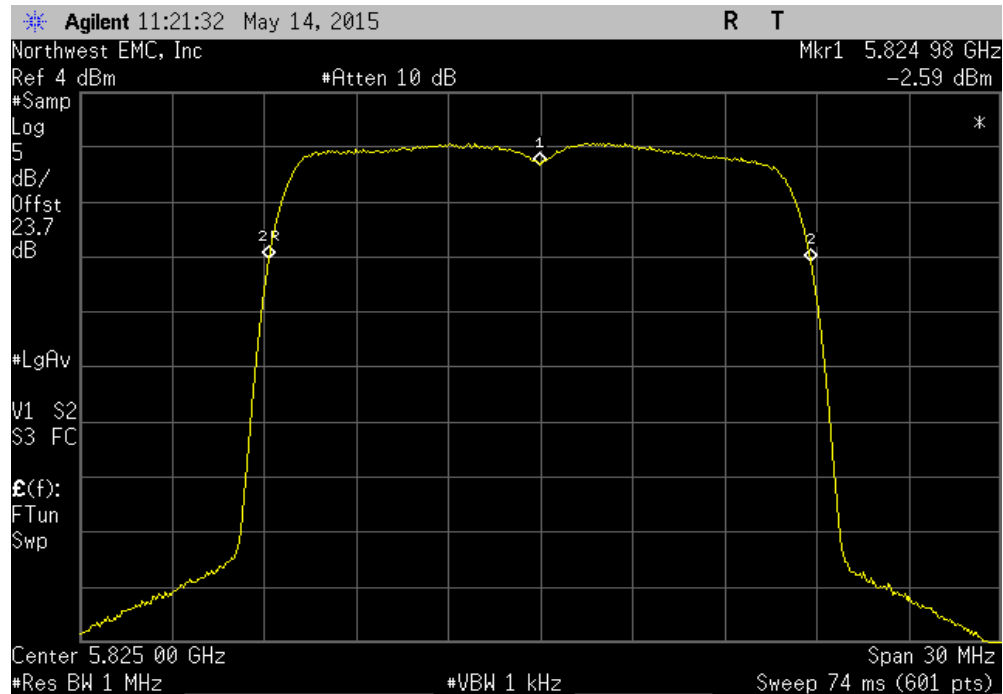


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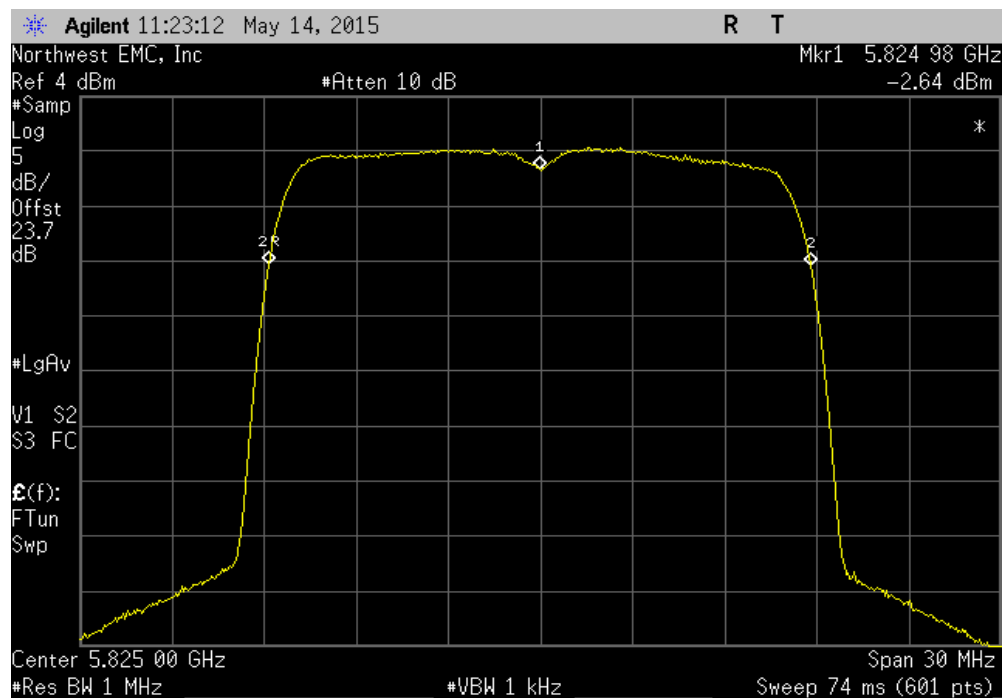
EUT: RLX2-IHNF		Work Order: PROS0221	
Serial Number: 000D8DF095CE		Date: 05/11/15	
Customer: ProSoft Technology, Inc.		Temperature: 20.5°C	
Attendees: None		Humidity: 44%	
Project: None		Barometric Pres.: 1015	
Tested by: Johnny Candelas		Power: 120V/60Hz	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2015		ANSI C63.10:2009	
COMMENTS			
Offset 23.46dB (DC Block+20dB Attenuator+Coax Cable) for 23.67dB for 5.8GHz			
Power Setting - Max			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Measured Value (MHz)	Assigned Value (MHz)
		Error (ppm)	Limit (ppm)
			Results
High Channel 165, 5825 MHz			
	Voltage: 100%	5824.98	5825
	Voltage: 115%	5824.98	5825
	Voltage: 85%	5824.98	5825
	Temperature: +70°	5825.08	5825
	Temperature: +60°	5825.08	5825
	Temperature: +50°	5825.02	5825
	Temperature: +40°	5825	5825
	Temperature: +30°	5824.98	5825
	Temperature: +20°	5824.98	5825
	Temperature: +10°	5824.98	5825
	Temperature: 0°	5825.02	5825
	Temperature: -10°	5825	5825
	Temperature: -20°	5825	5825
	Temperature: -30°	5825	5825
	Temperature: -40°	5825	5825

FREQUENCY STABILITY

High Channel 165, 5825 MHz, Voltage: 115%						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5824.98	5825	3.4	100	Pass	

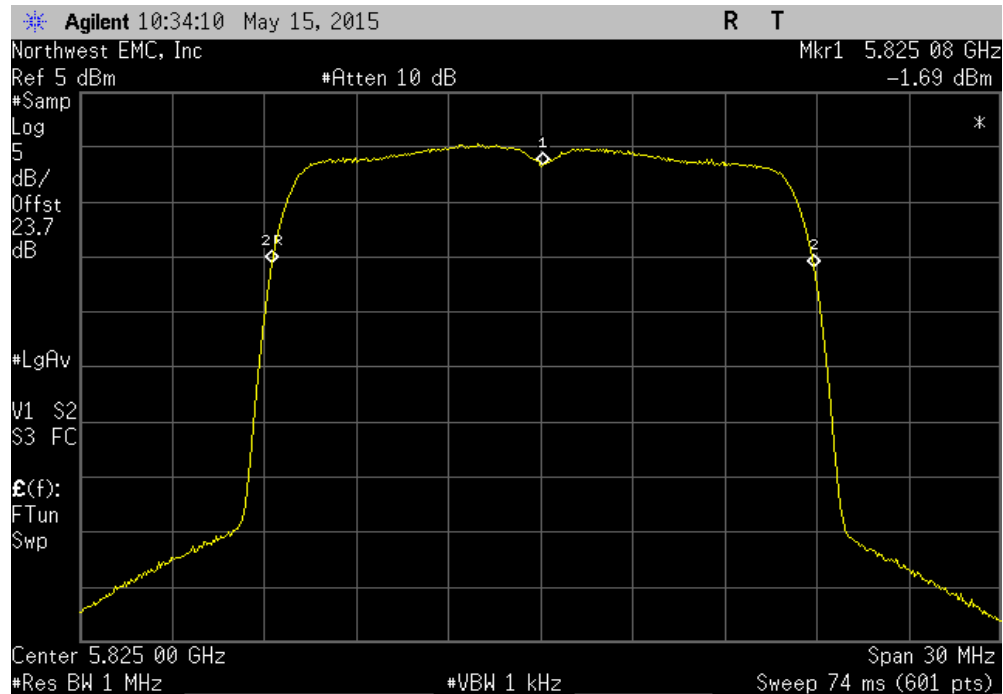


High Channel 165, 5825 MHz, Voltage: 85%						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5824.98	5825	3.4	100	Pass	

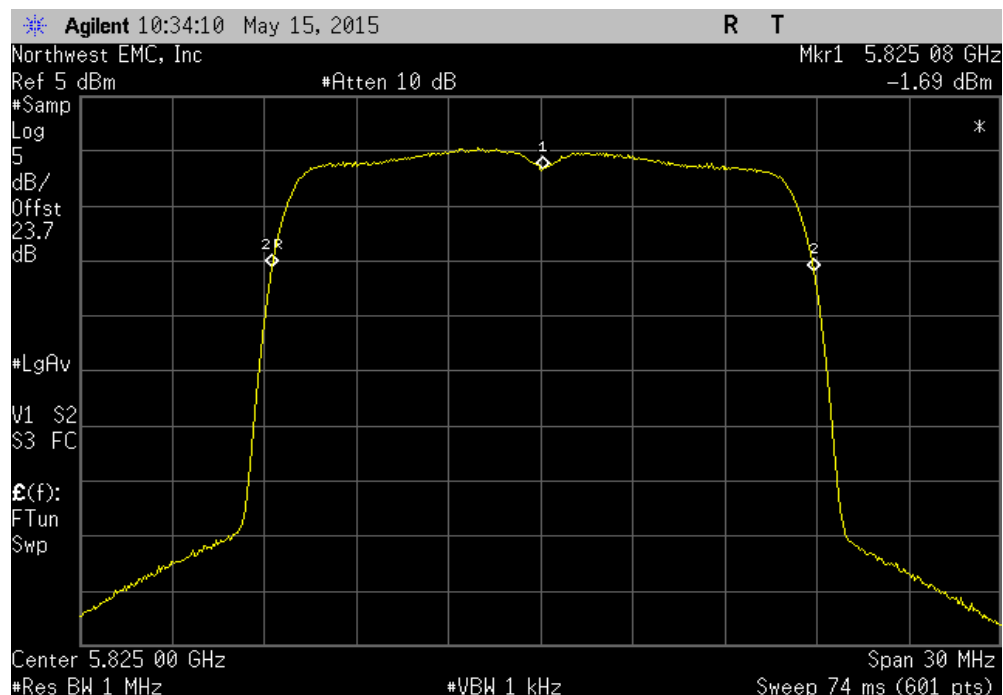


FREQUENCY STABILITY

High Channel 165, 5825 MHz, Temperature: +70°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825.08	5825	13.7	100	Pass	

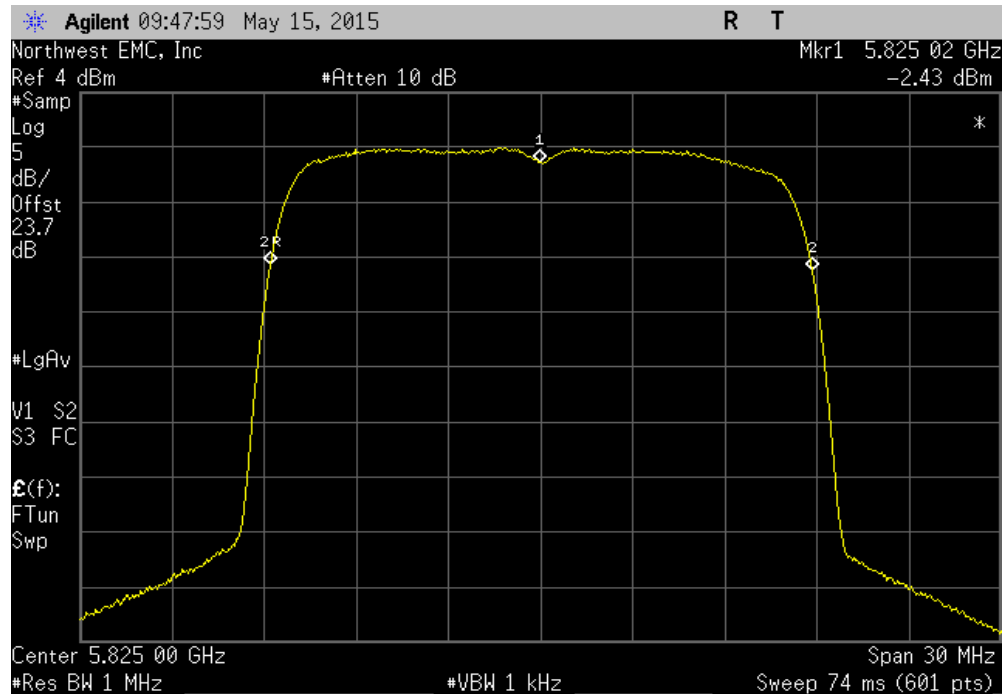


High Channel 165, 5825 MHz, Temperature: +60°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825.08	5825	13.7	100	Pass	

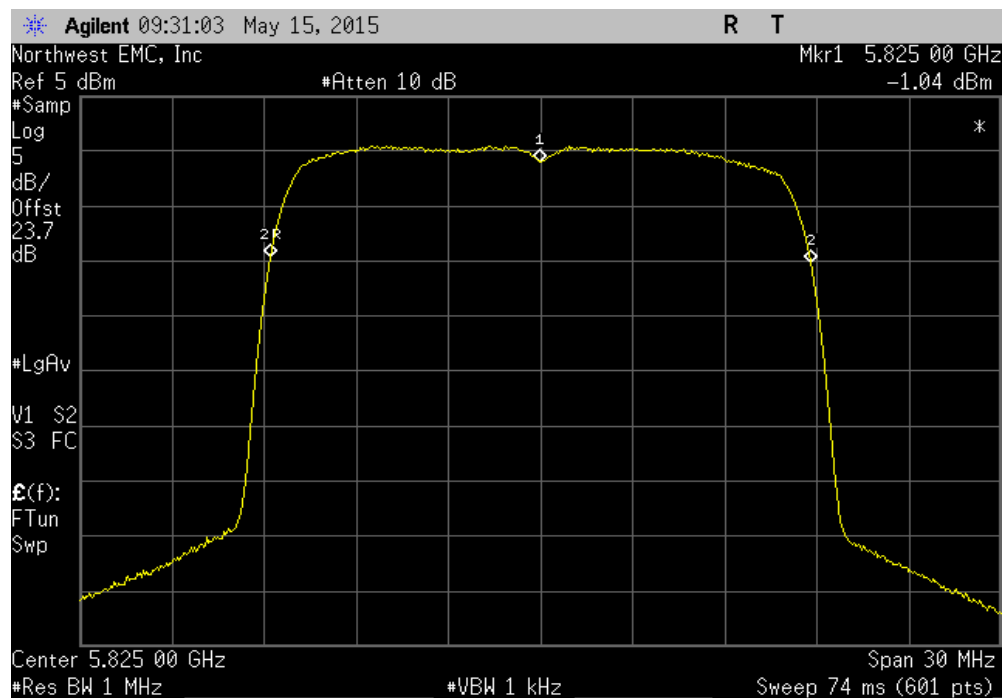


FREQUENCY STABILITY

High Channel 165, 5825 MHz, Temperature: +50°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825.02	5825	3.4	100	Pass	

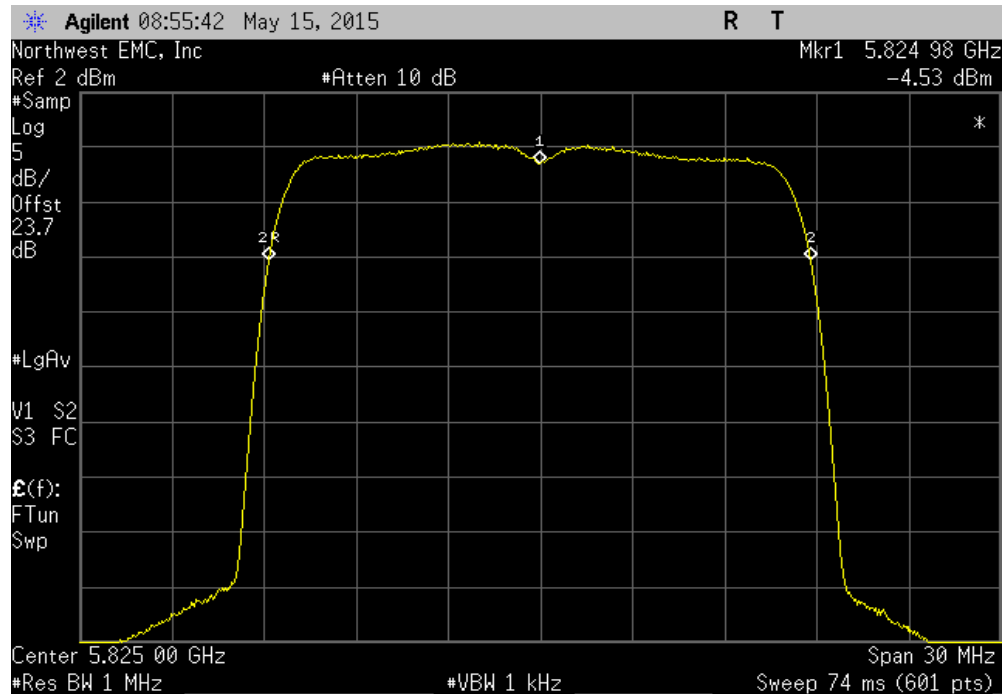


High Channel 165, 5825 MHz, Temperature: +40°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825	5825	0	100	Pass	

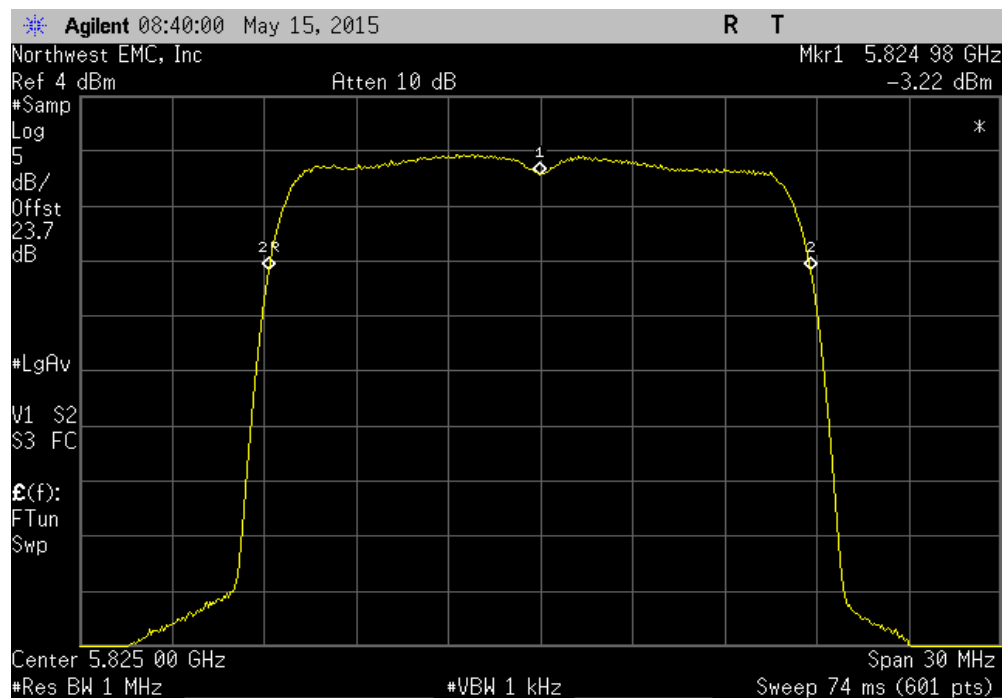


FREQUENCY STABILITY

High Channel 165, 5825 MHz, Temperature: +30°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5824.98	5825	3.4	100	Pass	

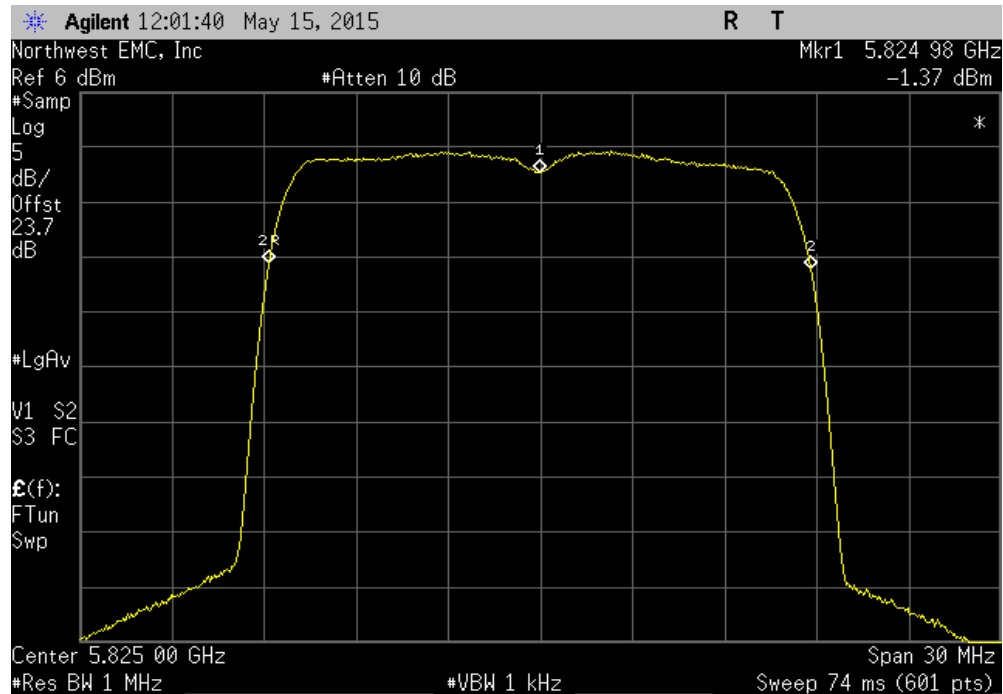


High Channel 165, 5825 MHz, Temperature: +20°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5824.98	5825	3.4	100	Pass	

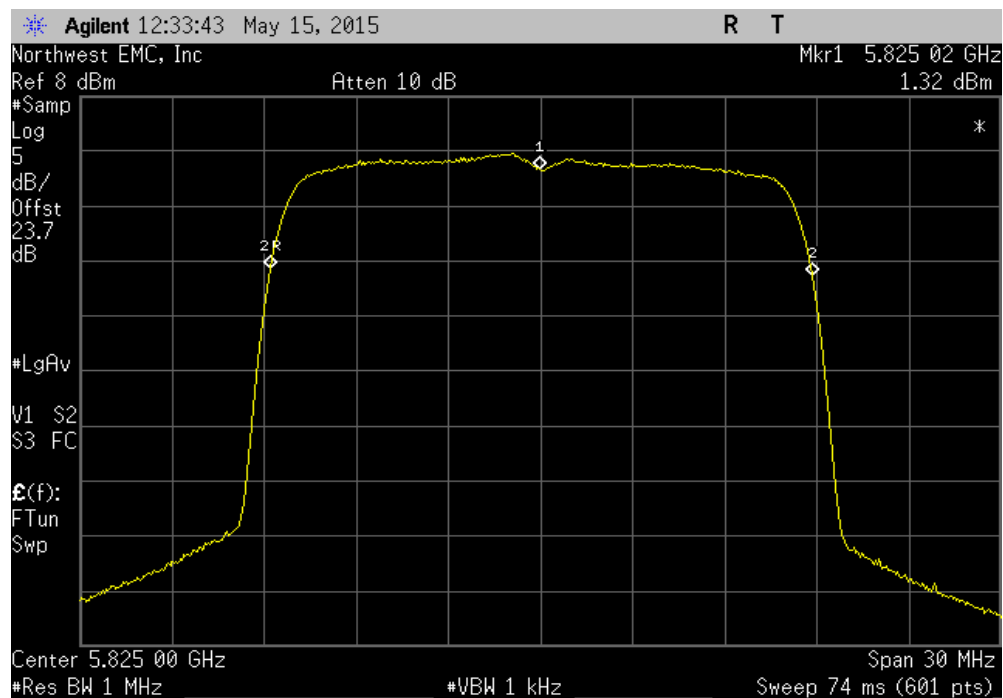


FREQUENCY STABILITY

High Channel 165, 5825 MHz, Temperature: +10°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5824.98	5825	3.4	100	Pass	

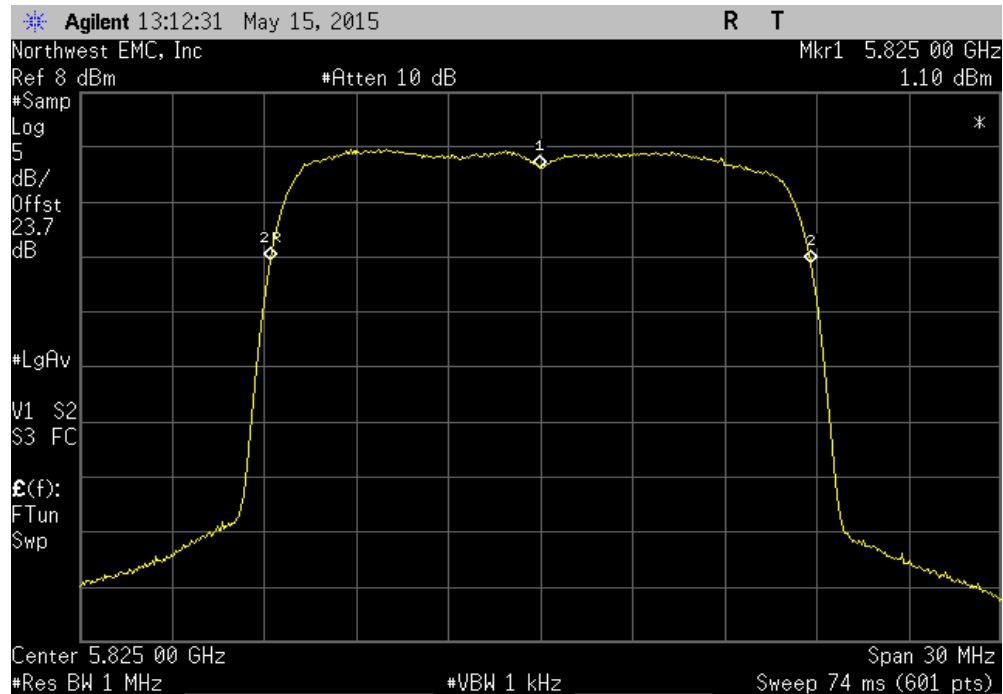


High Channel 165, 5825 MHz, Temperature: 0°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825.02	5825	3.4	100	Pass	

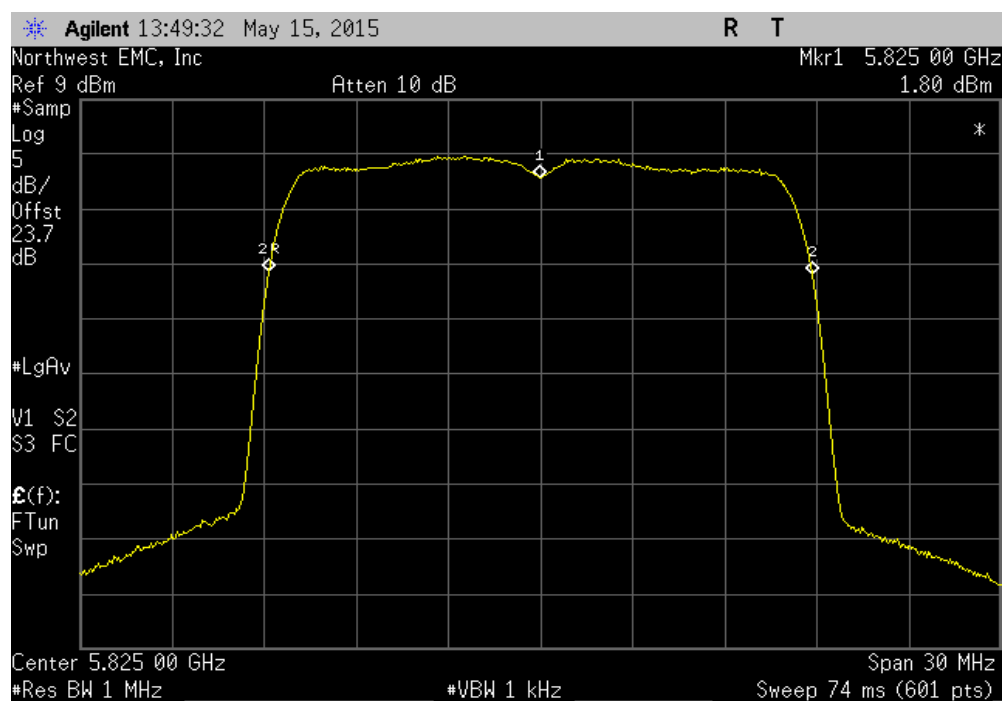


FREQUENCY STABILITY

High Channel 165, 5825 MHz, Temperature: -10°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825	5825	0	100	Pass	

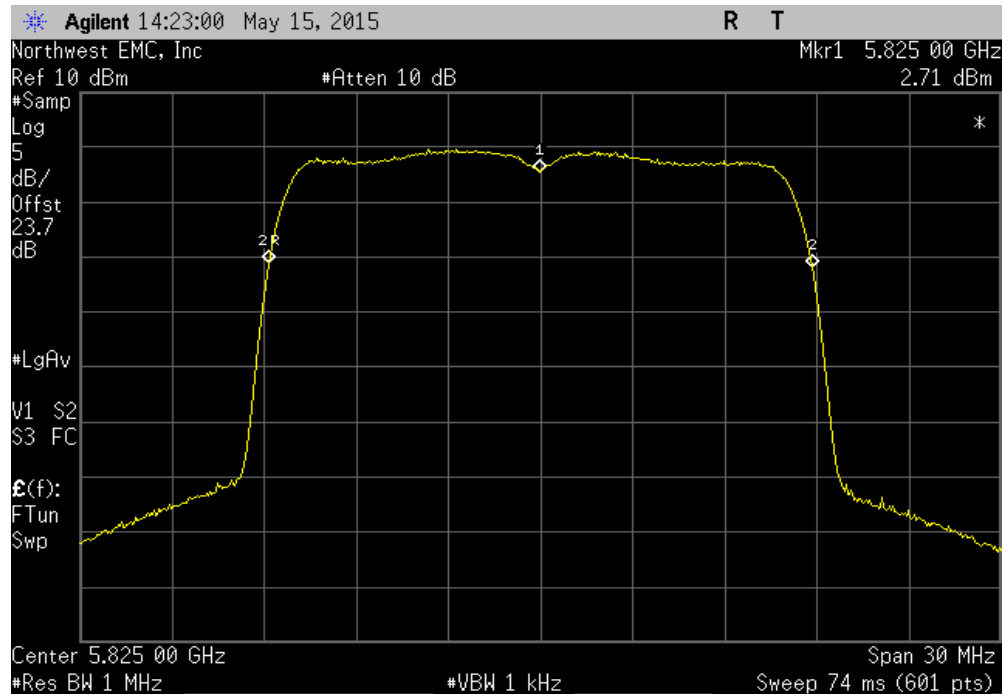


High Channel 165, 5825 MHz, Temperature: -20°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825	5825	0	100	Pass	

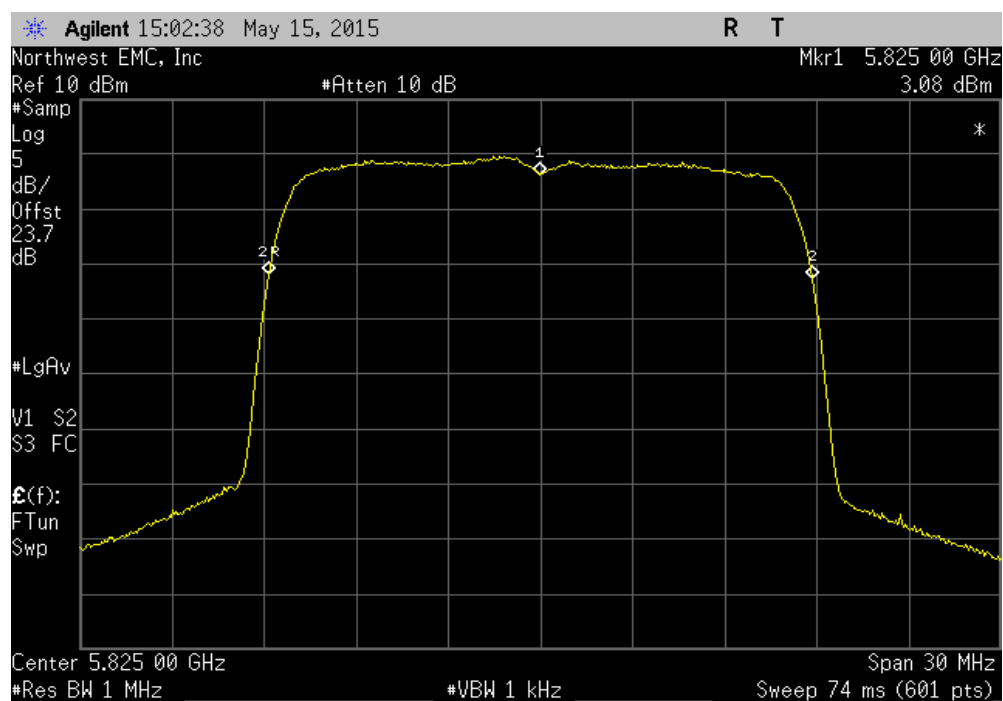


FREQUENCY STABILITY

High Channel 165, 5825 MHz, Temperature: -30°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825	5825	0	100	Pass	



High Channel 165, 5825 MHz, Temperature: -40°						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results	
	5825	5825	0	100	Pass	



OCCUPIED BANDWIDTH

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator, 20dB	Fairview Microwave	SA18E-10	TKS	4/8/2015	12
40GHz DC Block	Fairview Microwave	SD3379	AMN	4/8/2015	12
Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

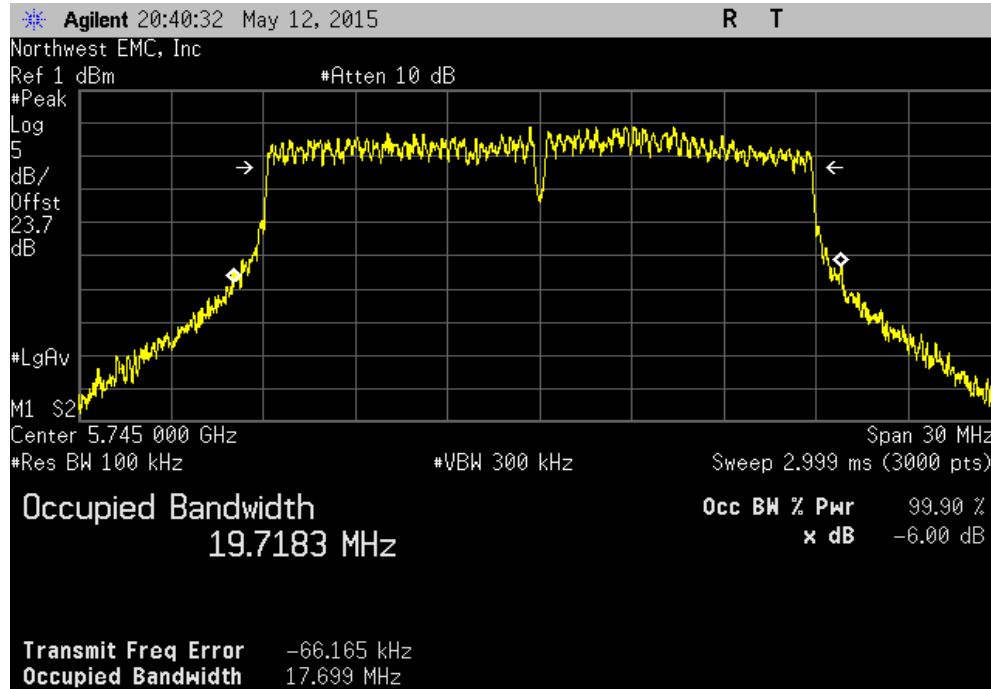
The EUT was set to the channels and modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer.

OCCUPIED BANDWIDTH

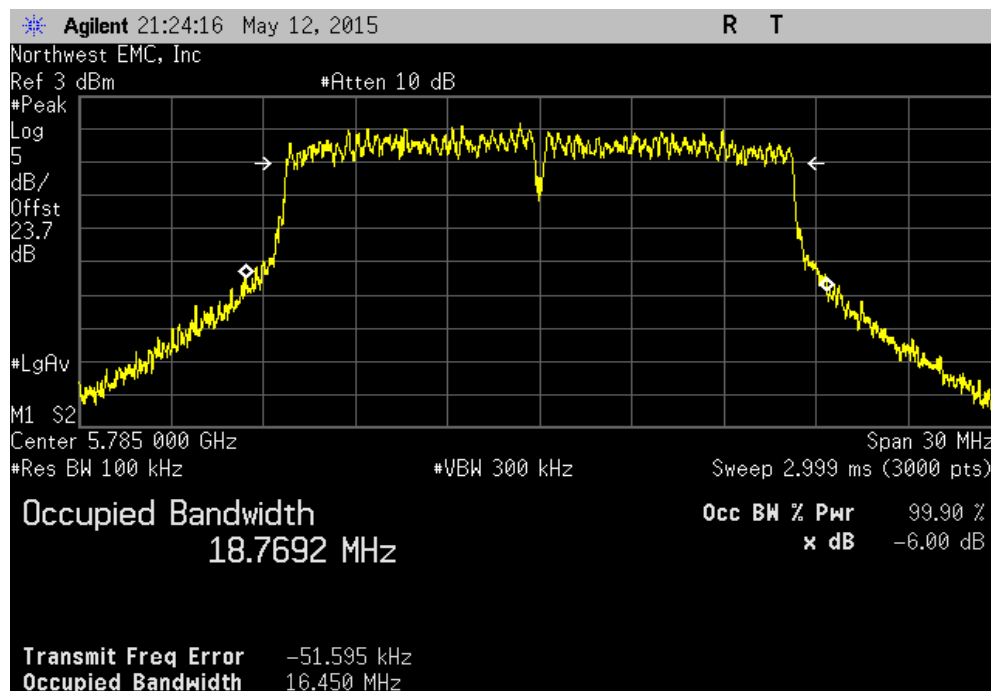
EUT: RLX2-IHNF		Work Order: PROS0221	
Serial Number: 000D8DF095CE		Date: 05/11/15	
Customer: ProSoft Technology, Inc.		Temperature: 20.5°C	
Attendees: None		Humidity: 44%	
Project: None		Barometric Pres.: 1015	
Tested by: Johnny Candelas		Power: 120V/60Hz	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2015		ANSI C63.10:2009	
COMMENTS			
Offset 23.67dB (DC Block+20dB Attenuator+Coax Cable) for 5.8GHz			
Power Setting - Max			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Value	Limit (>) Result
20 MHz			
Chain A			
802.11(n) MCS8			
Channel 149, Low Channel		17.699 MHz	500 kHz Pass
Channel 157, Mid Channel		16.45 MHz	500 kHz Pass
Channel 165, High Channel		17.654 MHz	500 kHz Pass
802.11(n) MCS15			
Channel 149, Low Channel		17.586 MHz	500 kHz Pass
Channel 157, Mid Channel		17.615 MHz	500 kHz Pass
Channel 165, High Channel		17.579 MHz	500 kHz Pass
Chain B			
802.11(n) MCS8			
Channel 149, Low Channel		17.724 MHz	500 kHz Pass
Channel 157, Mid Channel		17.592 MHz	500 kHz Pass
Channel 165, High Channel		17.702 MHz	500 kHz Pass
802.11(n) MCS15			
Channel 149, Low Channel		17.7 MHz	500 kHz Pass
Channel 157, Mid Channel		17.739 MHz	500 kHz Pass
Channel 165, High Channel		17.628 MHz	500 kHz Pass
Chain C			
802.11(n) MCS8			
Channel 149, Low Channel		17.687 MHz	500 kHz Pass
Channel 157, Mid Channel		17.727 MHz	500 kHz Pass
Channel 165, High Channel		17.411 MHz	500 kHz Pass
802.11(n) MCS15			
Channel 149, Low Channel		17.692 MHz	500 kHz Pass
Channel 157, Mid Channel		17.642 MHz	500 kHz Pass
Channel 165, High Channel		17.718 MHz	500 kHz Pass
40 MHz			
Chain A			
802.11(n) MCS8			
Channel 149/153, Low Channel		36.528 MHz	500 kHz Pass
Channel 157/161, High Channel		36.531 MHz	500 kHz Pass
802.11(n) MCS15			
Channel 149/153, Low Channel		36.451 MHz	500 kHz Pass
Channel 157/161, High Channel		36.454 MHz	500 kHz Pass
Chain B			
802.11(n) MCS8			
Channel 149/153, Low Channel		36.475 MHz	500 kHz Pass
Channel 157/161, High Channel		36.474 MHz	500 kHz Pass
802.11(n) MCS15			
Channel 149/153, Low Channel		36.487 MHz	500 kHz Pass
Channel 157/161, High Channel		36.476 MHz	500 kHz Pass
Chain C			
802.11(n) MCS8			
Channel 149/153, Low Channel		36.501 MHz	500 kHz Pass
Channel 157/161, High Channel		36.475 MHz	500 kHz Pass
802.11(n) MCS15			
Channel 149/153, Low Channel		36.461 MHz	500 kHz Pass
Channel 157/161, High Channel		36.496 MHz	500 kHz Pass

OCCUPIED BANDWIDTH

20 MHz, Chain A, 802.11(n) MCS8, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.699 MHz	500 kHz	Pass

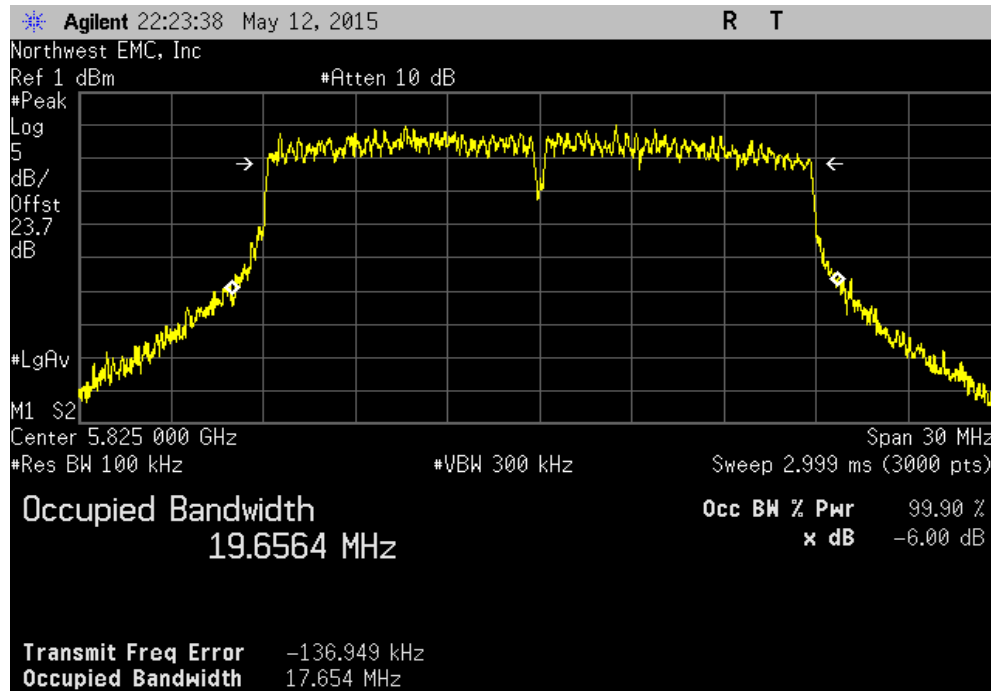


20 MHz, Chain A, 802.11(n) MCS8, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.45 MHz	500 kHz	Pass

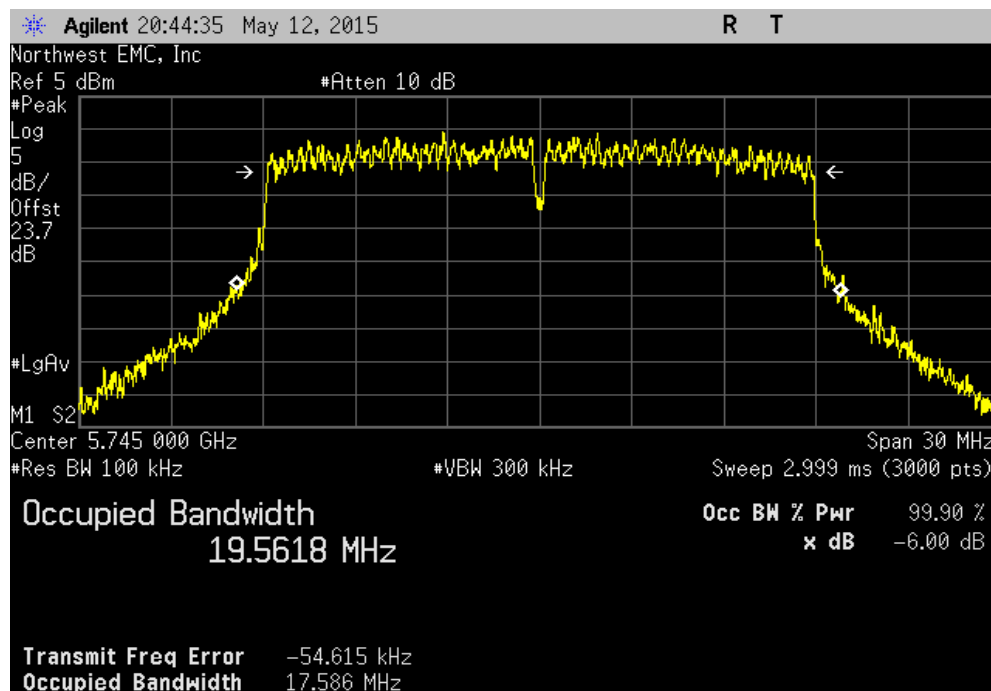


OCCUPIED BANDWIDTH

20 MHz, Chain A, 802.11(n) MCS8, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.654 MHz	500 kHz	Pass

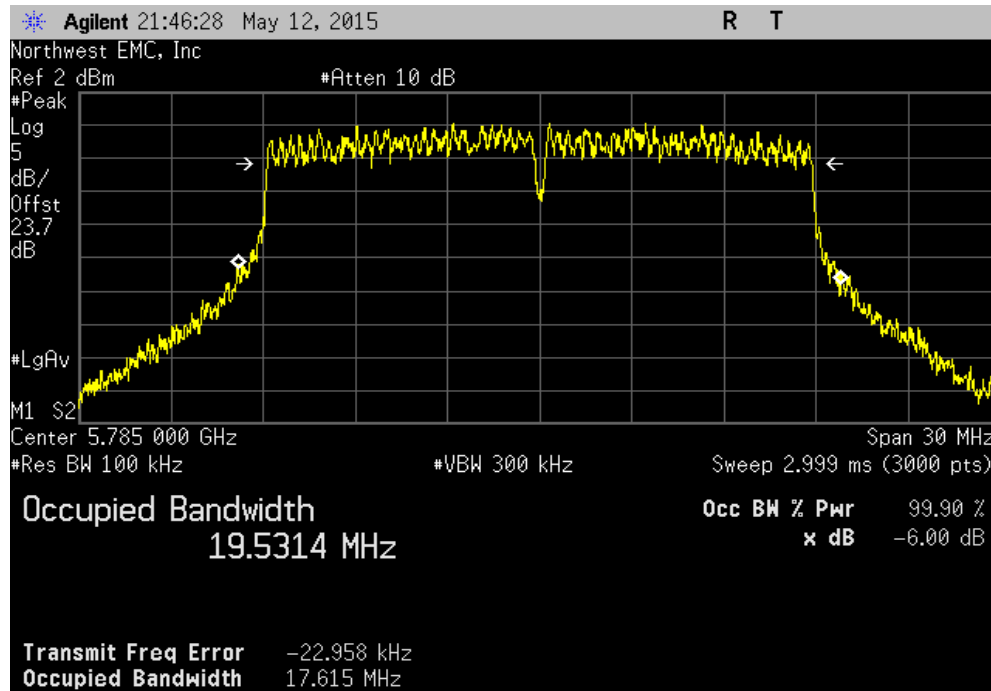


20 MHz, Chain A, 802.11(n) MCS15, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.586 MHz	500 kHz	Pass

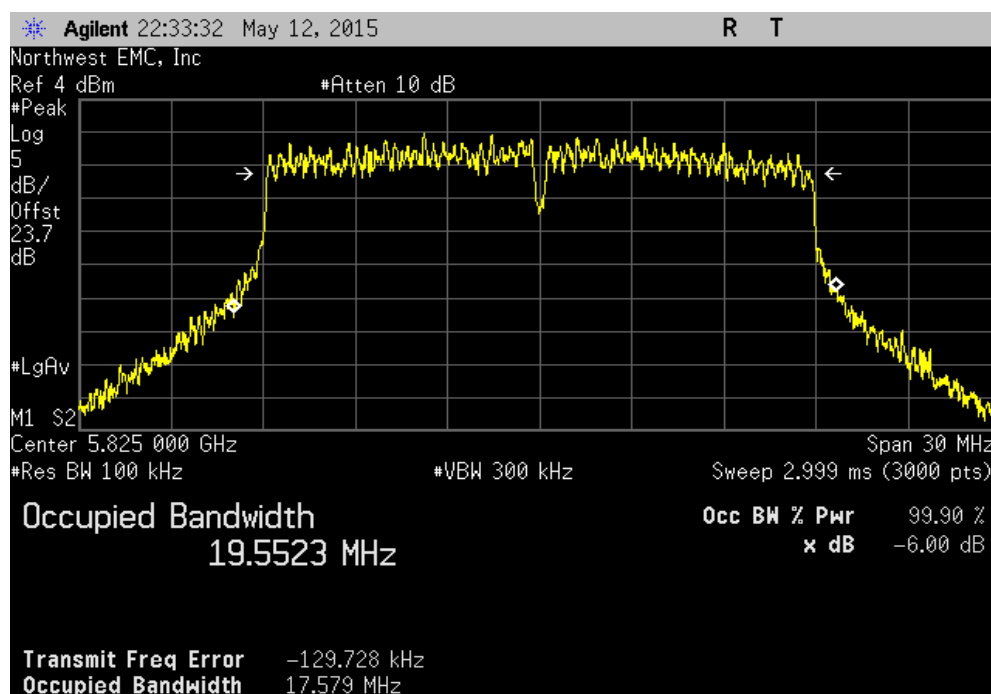


OCCUPIED BANDWIDTH

20 MHz, Chain A, 802.11(n) MCS15, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.615 MHz	500 kHz	Pass

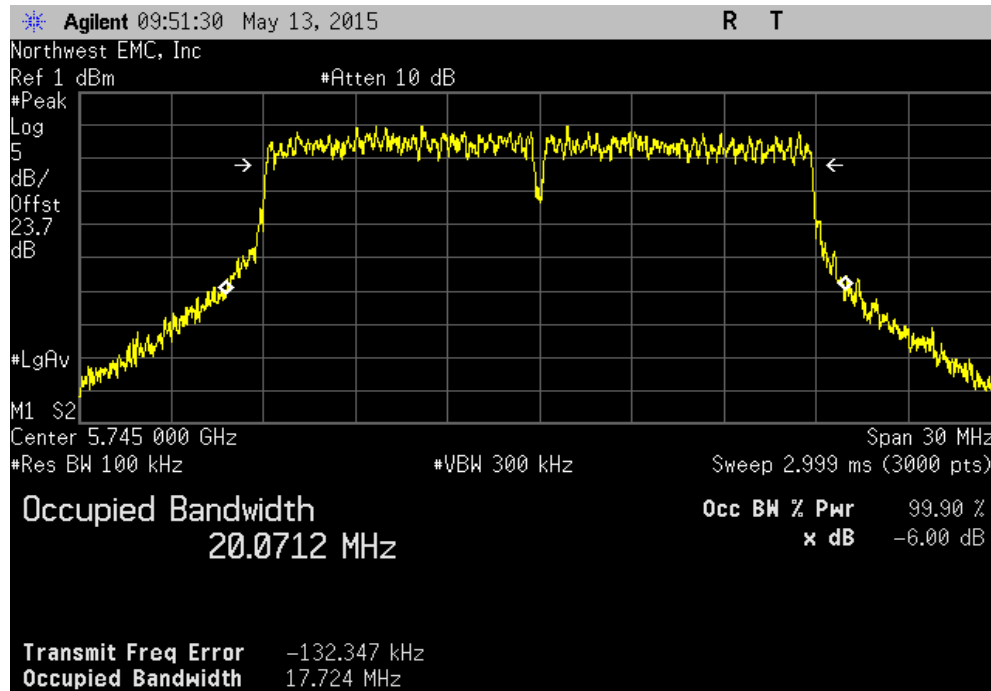


20 MHz, Chain A, 802.11(n) MCS15, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.579 MHz	500 kHz	Pass

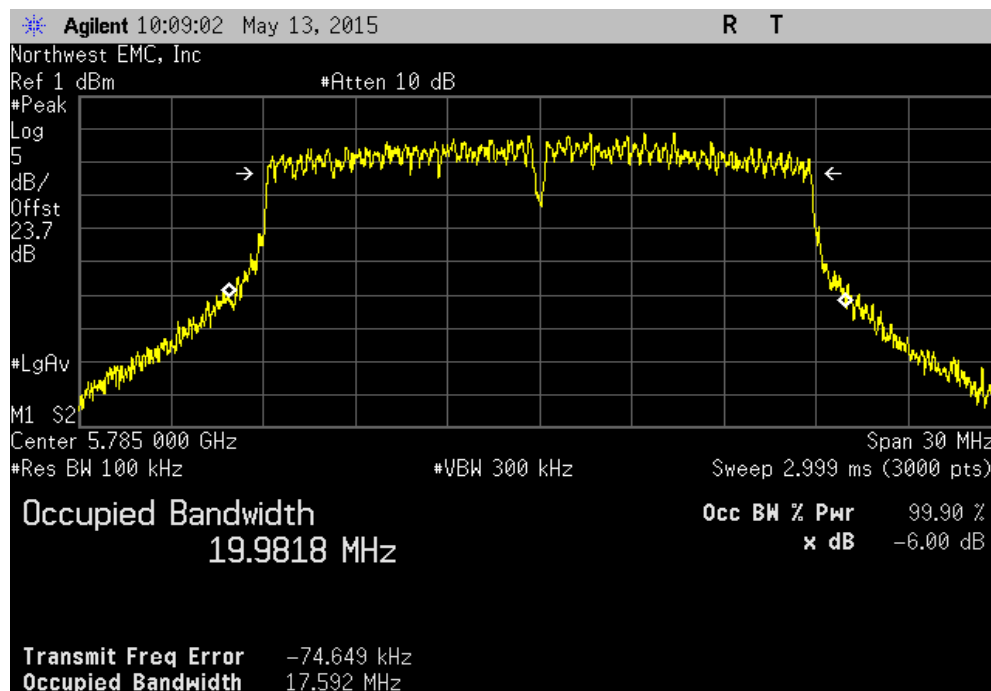


OCCUPIED BANDWIDTH

20 MHz, Chain B, 802.11(n) MCS8, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.724 MHz	500 kHz	Pass

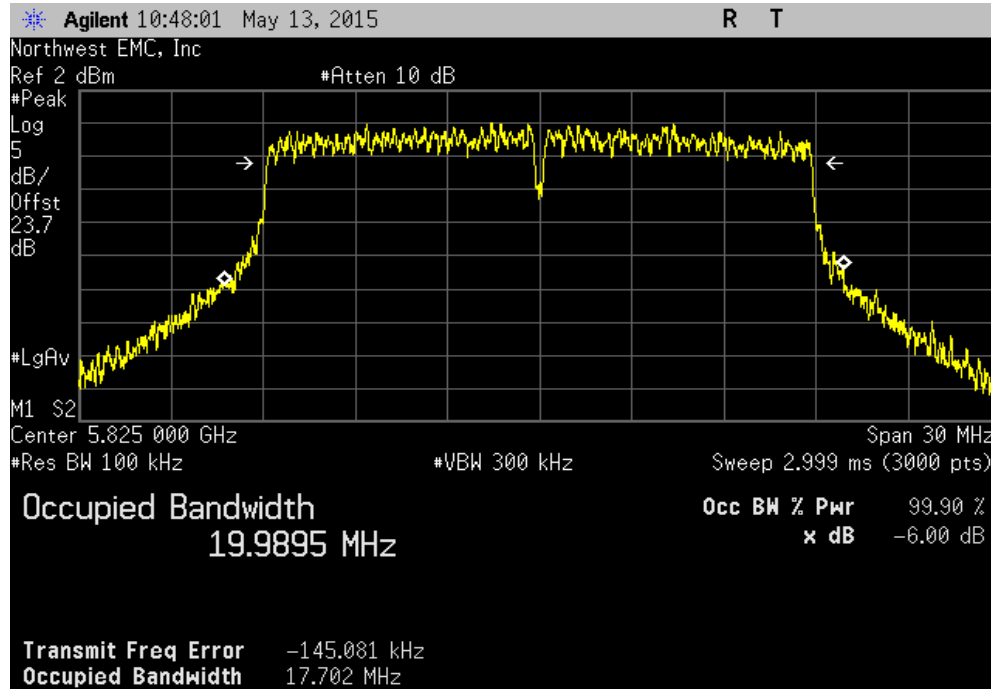


20 MHz, Chain B, 802.11(n) MCS8, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.592 MHz	500 kHz	Pass

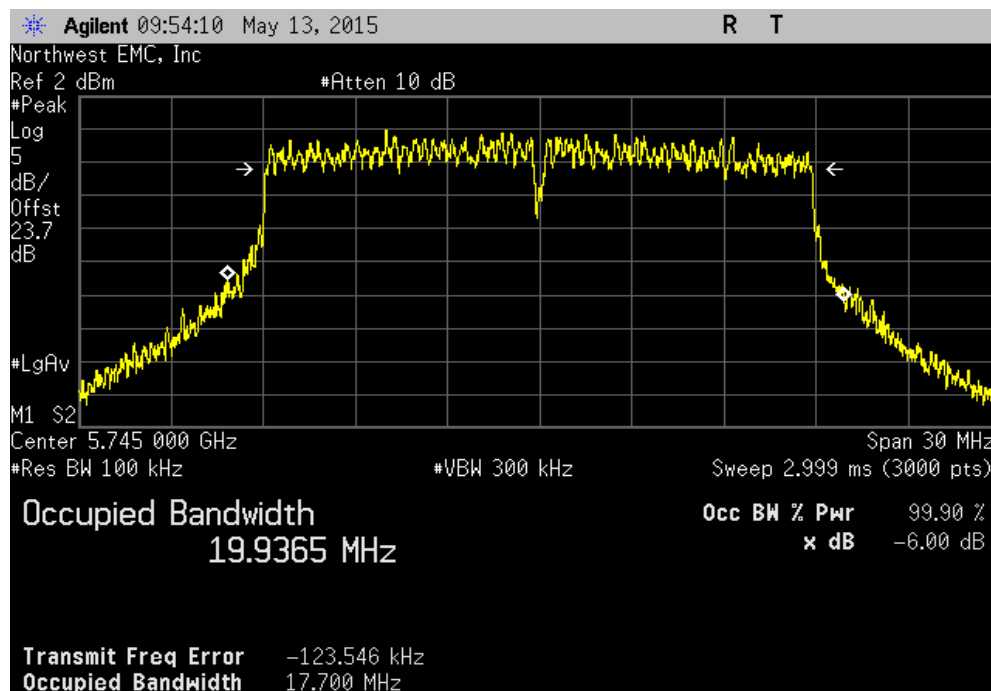


OCCUPIED BANDWIDTH

20 MHz, Chain B, 802.11(n) MCS8, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.702 MHz	500 kHz	Pass

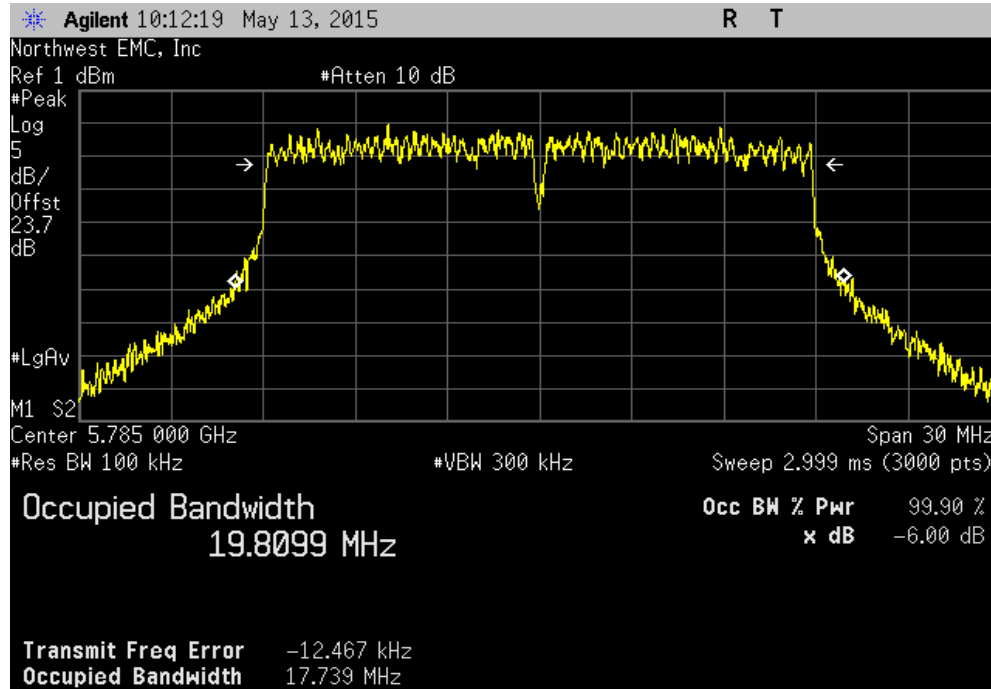


20 MHz, Chain B, 802.11(n) MCS15, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.7 MHz	500 kHz	Pass

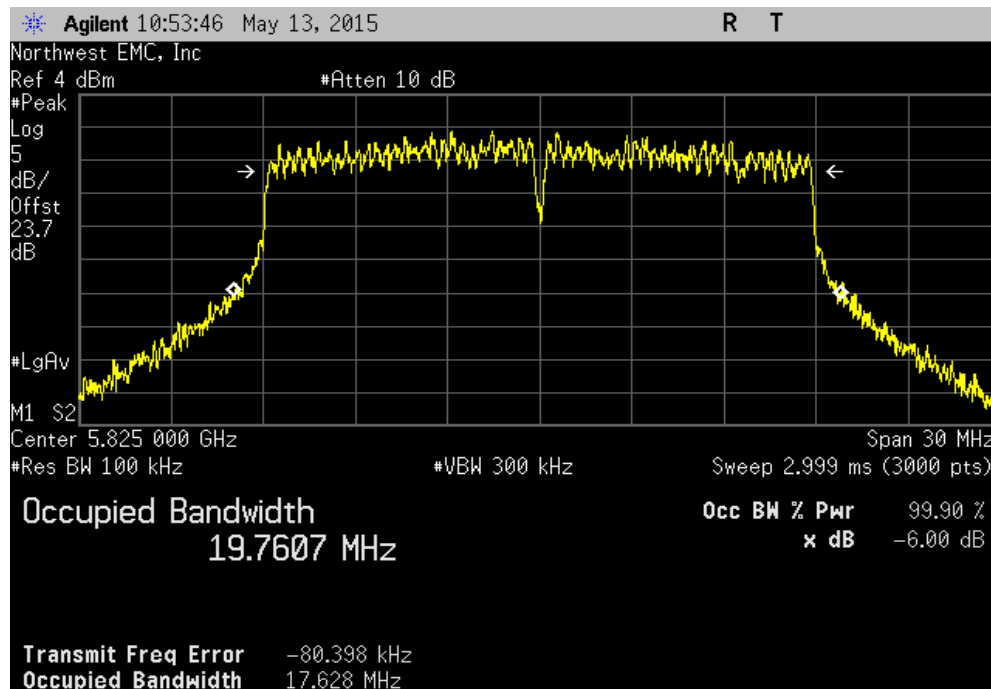


OCCUPIED BANDWIDTH

20 MHz, Chain B, 802.11(n) MCS15, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.739 MHz	500 kHz	Pass

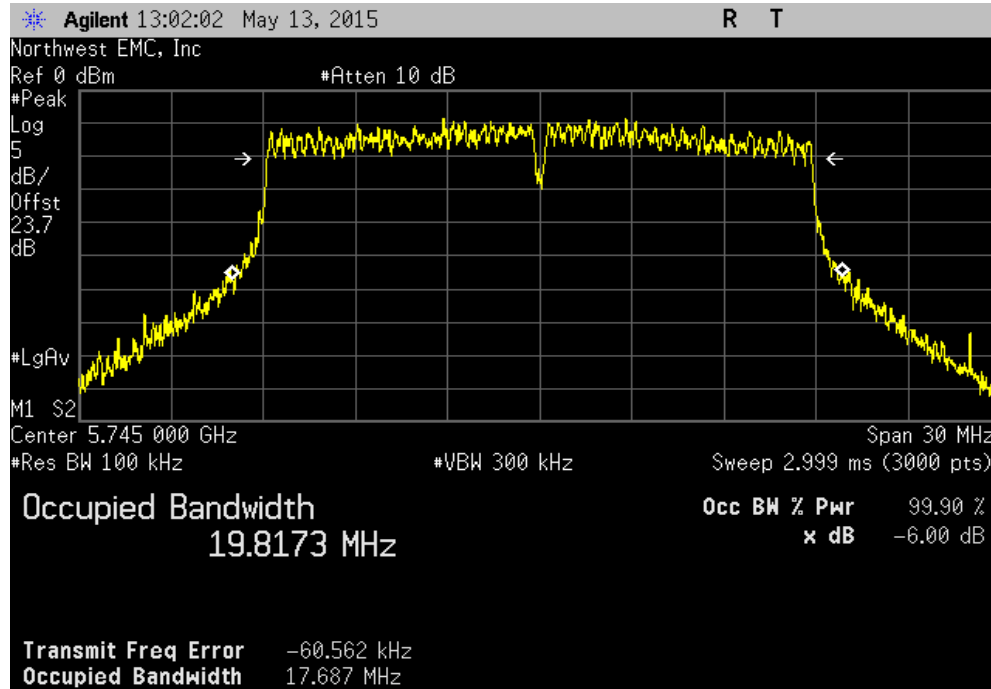


20 MHz, Chain B, 802.11(n) MCS15, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.628 MHz	500 kHz	Pass

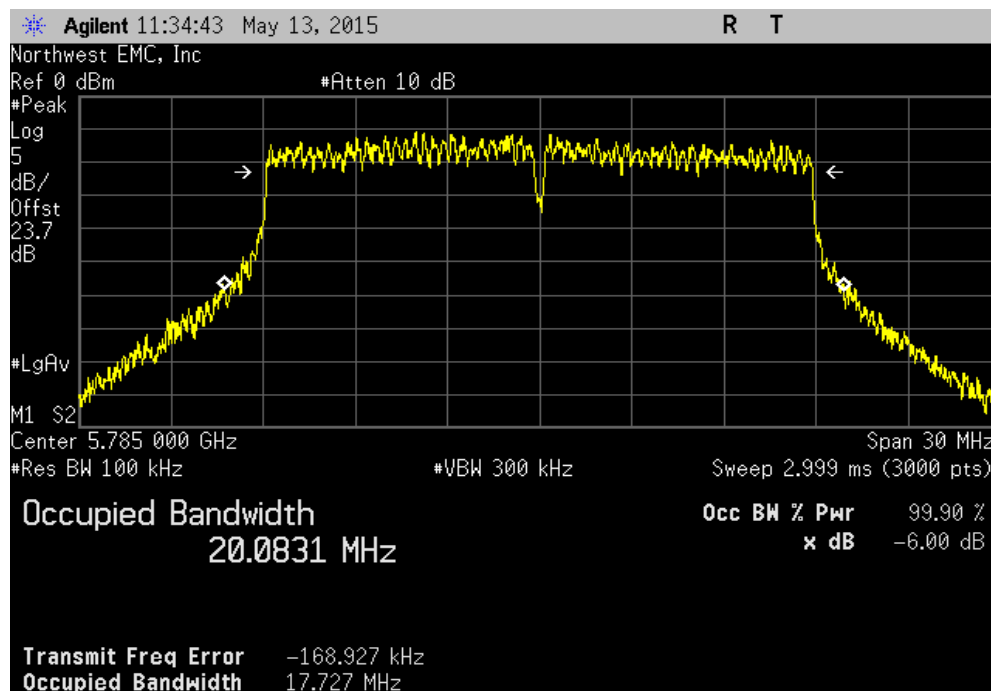


OCCUPIED BANDWIDTH

20 MHz, Chain C, 802.11(n) MCS8, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.687 MHz	500 kHz	Pass



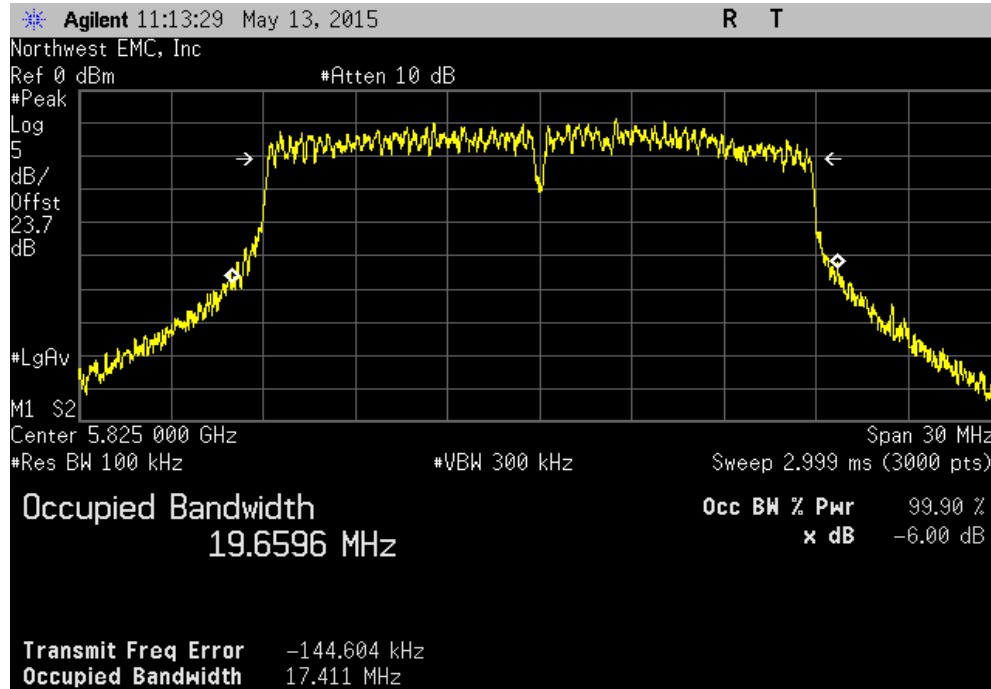
20 MHz, Chain C, 802.11(n) MCS8, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.727 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH

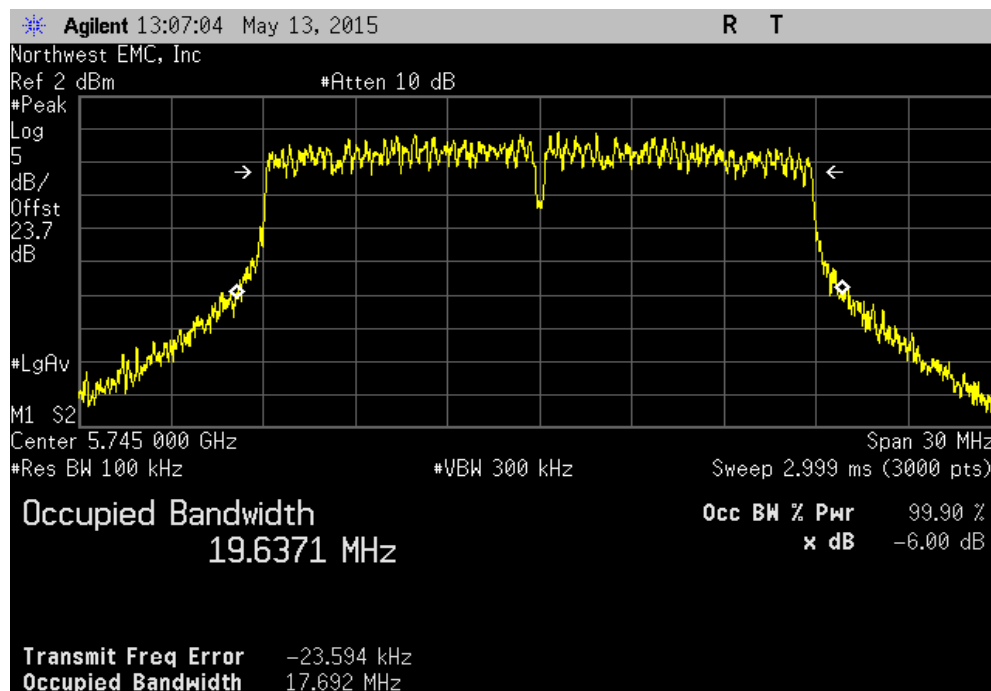
20 MHz, Chain C, 802.11(n) MCS8, Channel 165, High Channel

				Value	Limit (>)	Result
				17.411 MHz	500 kHz	Pass



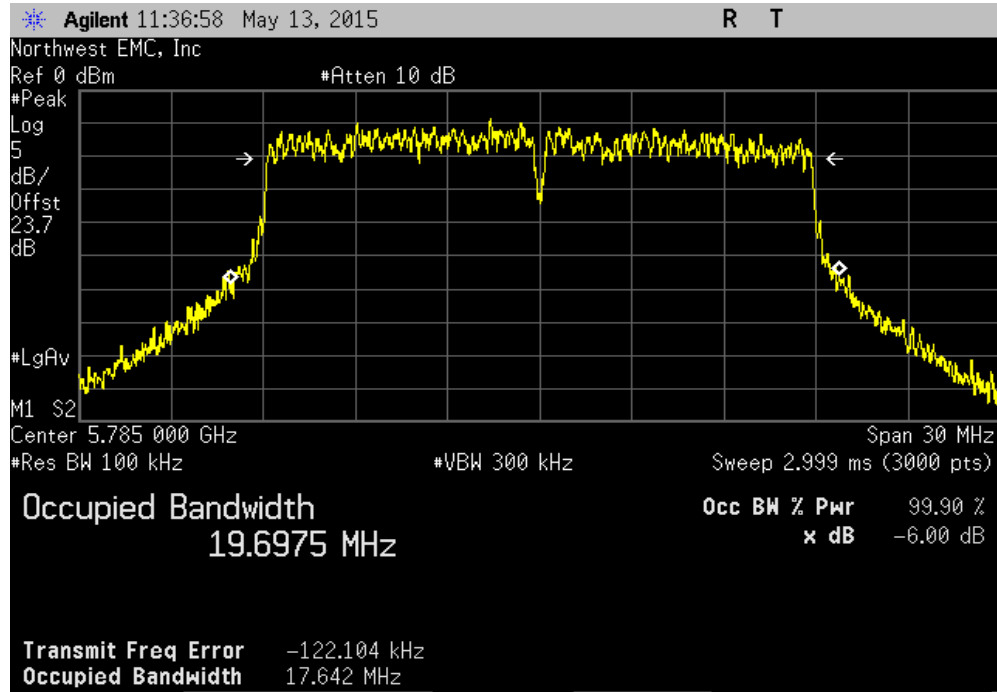
20 MHz, Chain C, 802.11(n) MCS15, Channel 149, Low Channel

				Value	Limit (>)	Result
				17.692 MHz	500 kHz	Pass

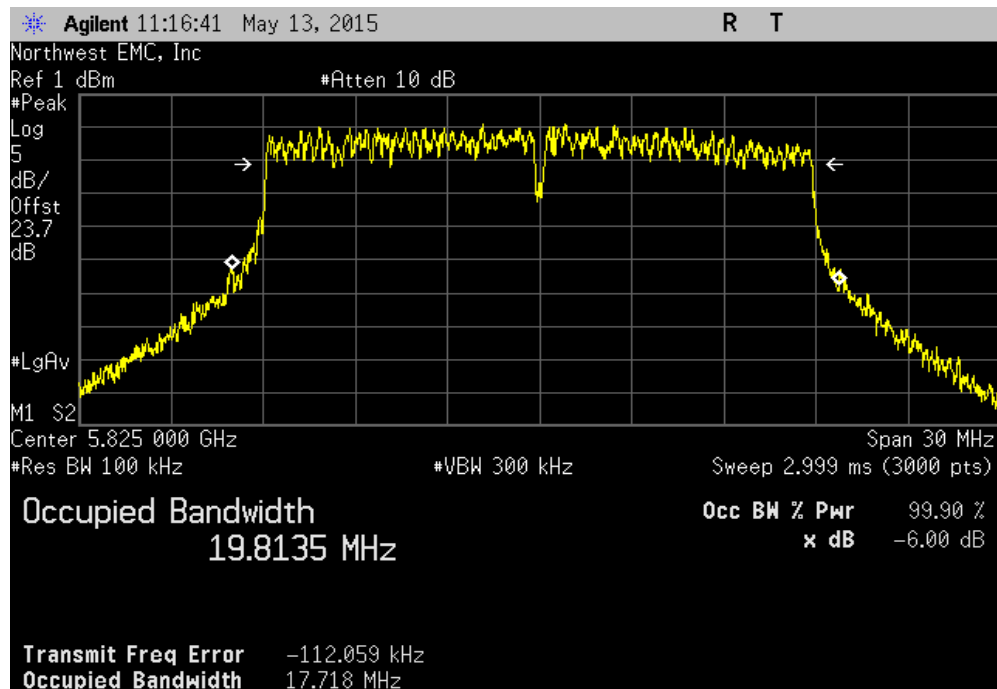


OCCUPIED BANDWIDTH

20 MHz, Chain C, 802.11(n) MCS15, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.642 MHz	500 kHz	Pass

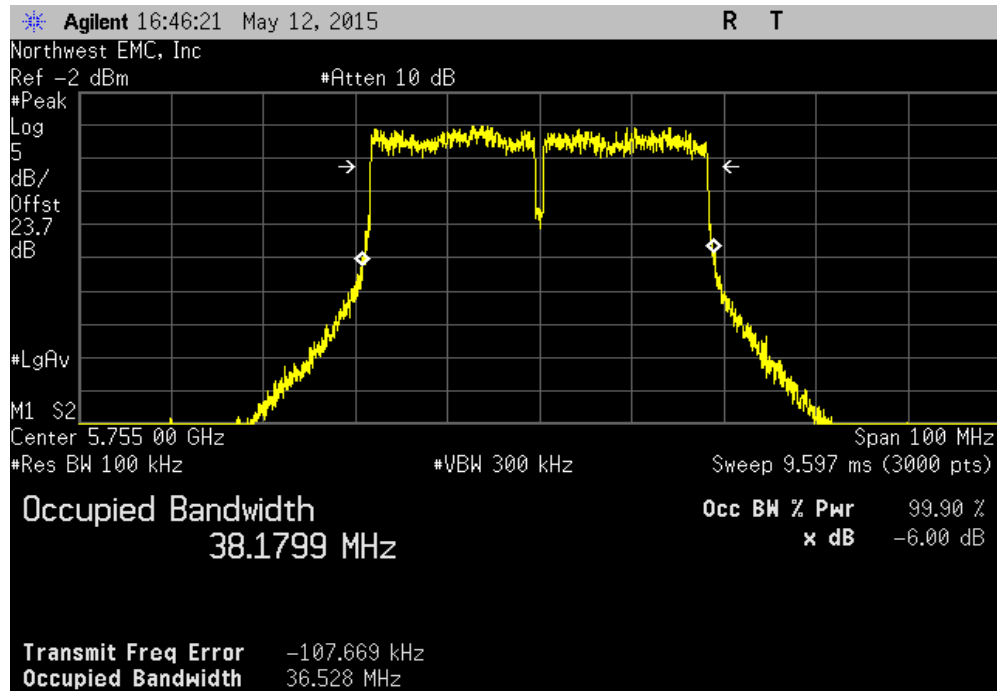


20 MHz, Chain C, 802.11(n) MCS15, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.718 MHz	500 kHz	Pass

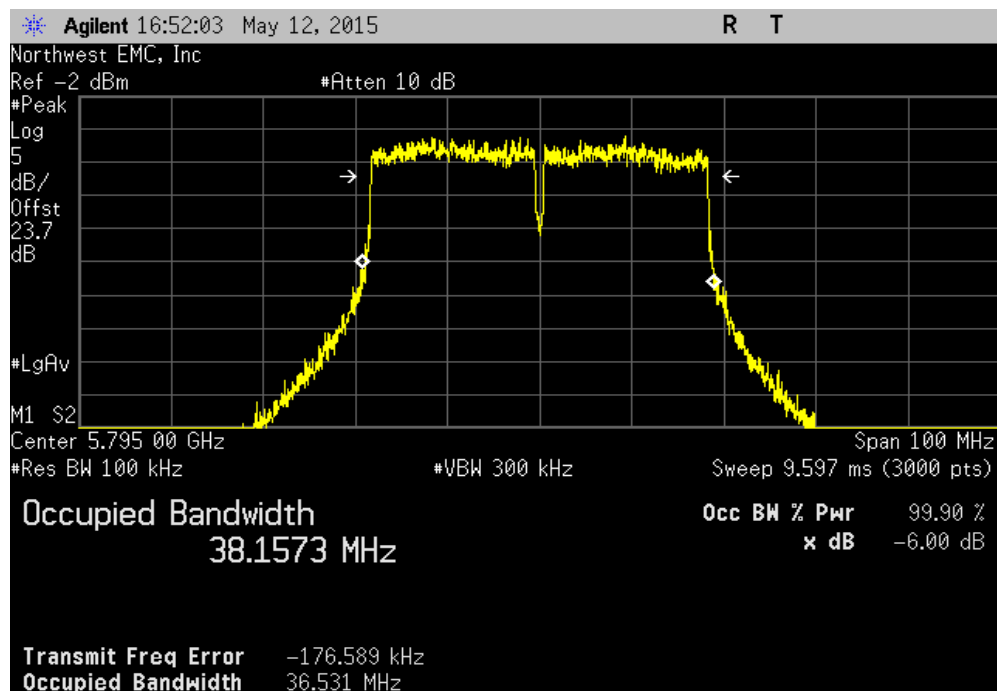


OCCUPIED BANDWIDTH

40 MHz, Chain A, 802.11(n) MCS8, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.528 MHz	500 kHz	Pass

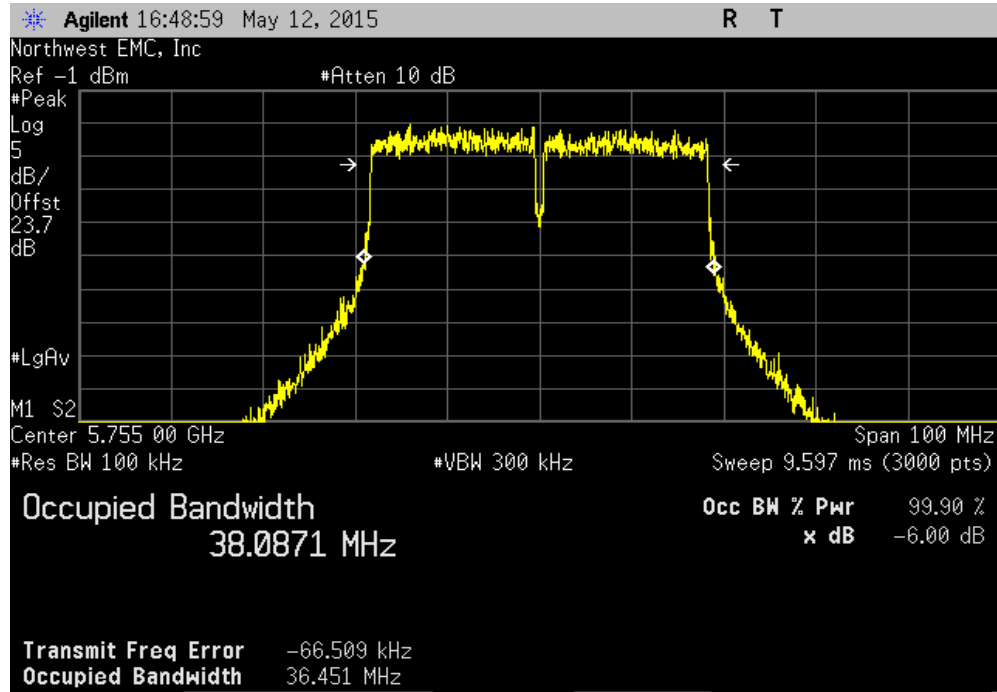


40 MHz, Chain A, 802.11(n) MCS8, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.531 MHz	500 kHz	Pass

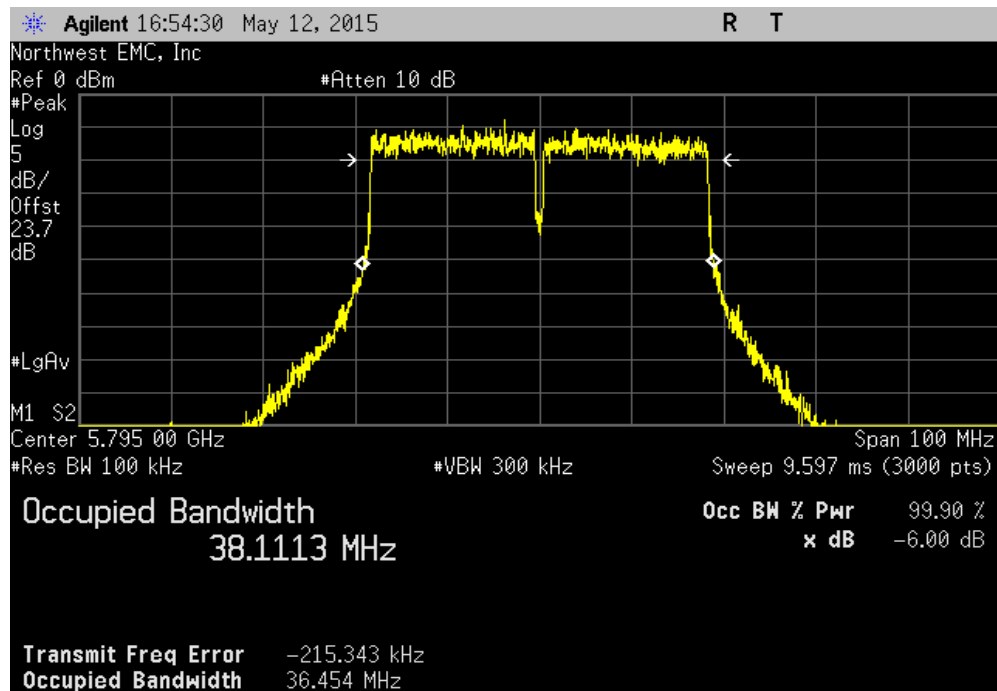


OCCUPIED BANDWIDTH

40 MHz, Chain A, 802.11(n) MCS15, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.451 MHz	500 kHz	Pass

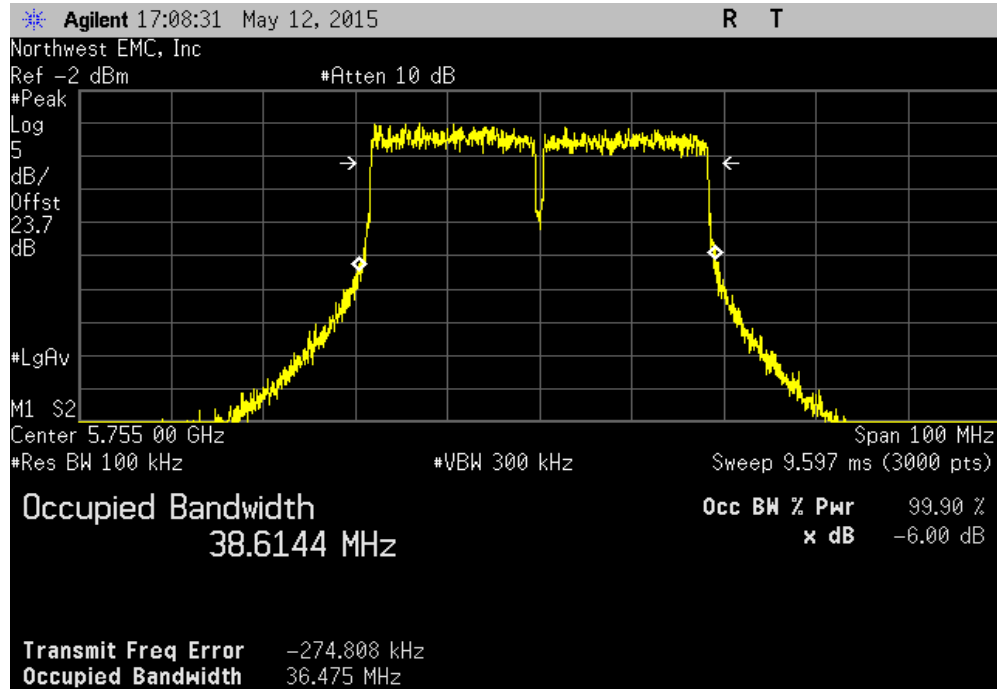


40 MHz, Chain A, 802.11(n) MCS15, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.454 MHz	500 kHz	Pass

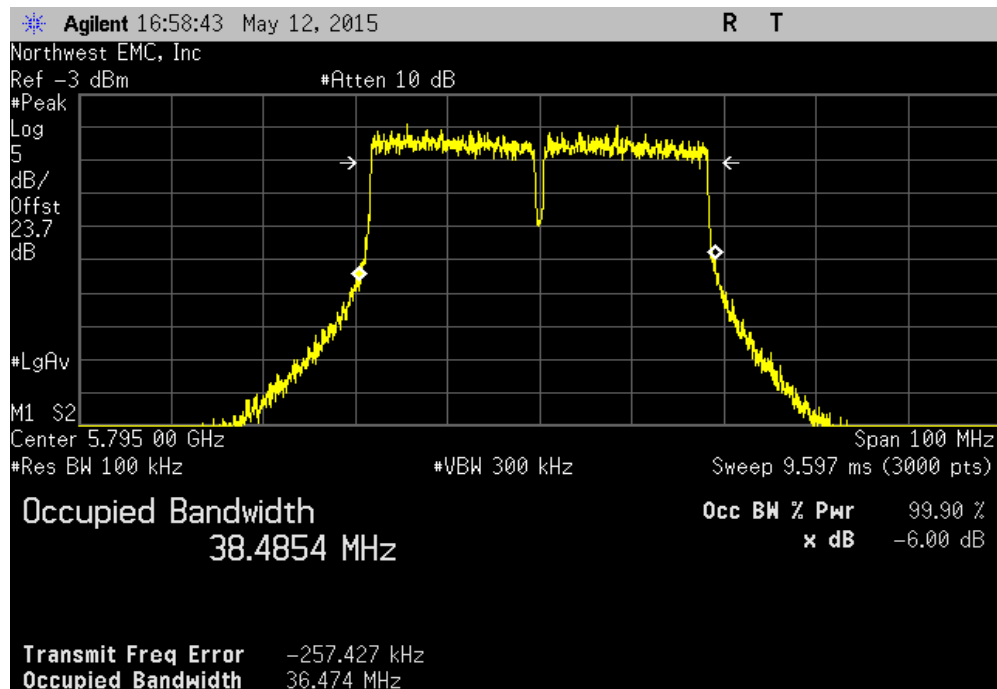


OCCUPIED BANDWIDTH

40 MHz, Chain B, 802.11(n) MCS8, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.475 MHz	500 kHz	Pass

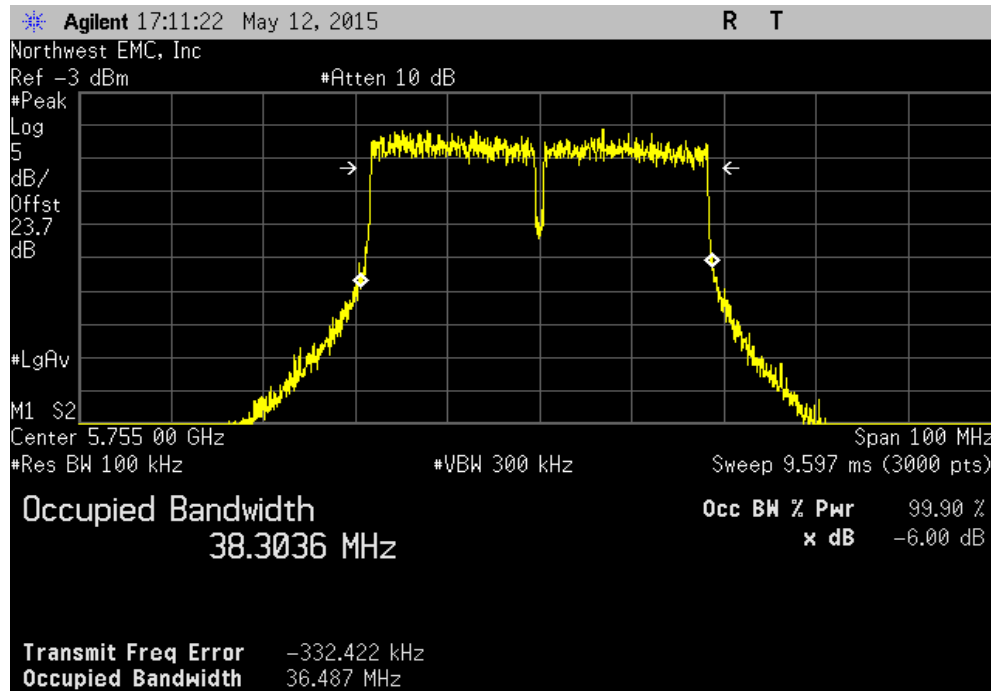


40 MHz, Chain B, 802.11(n) MCS8, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.474 MHz	500 kHz	Pass

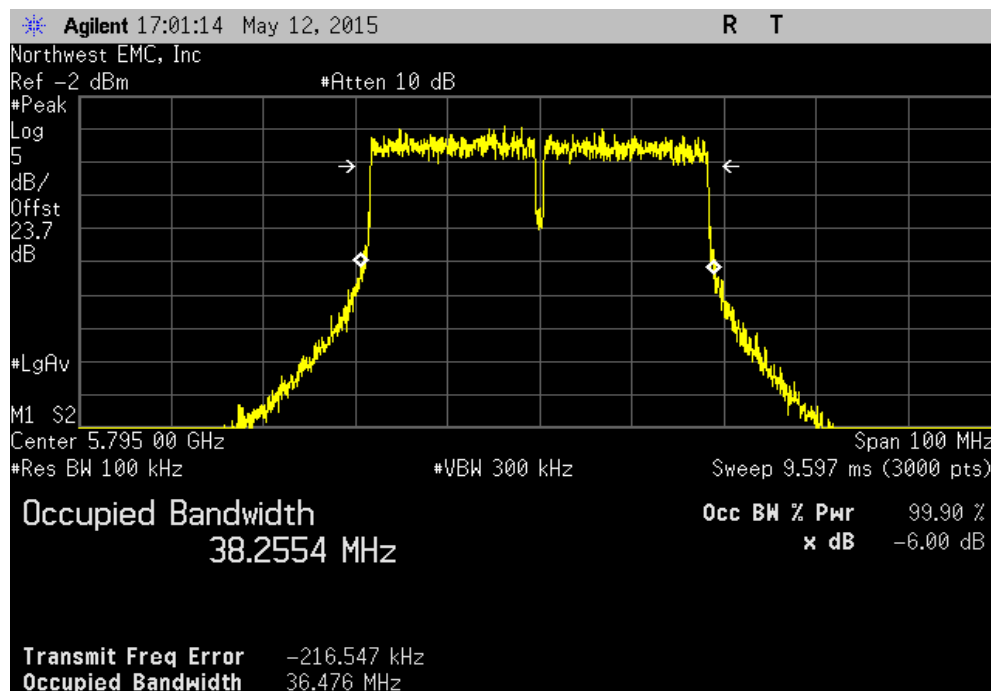


OCCUPIED BANDWIDTH

40 MHz, Chain B, 802.11(n) MCS15, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.487 MHz	500 kHz	Pass

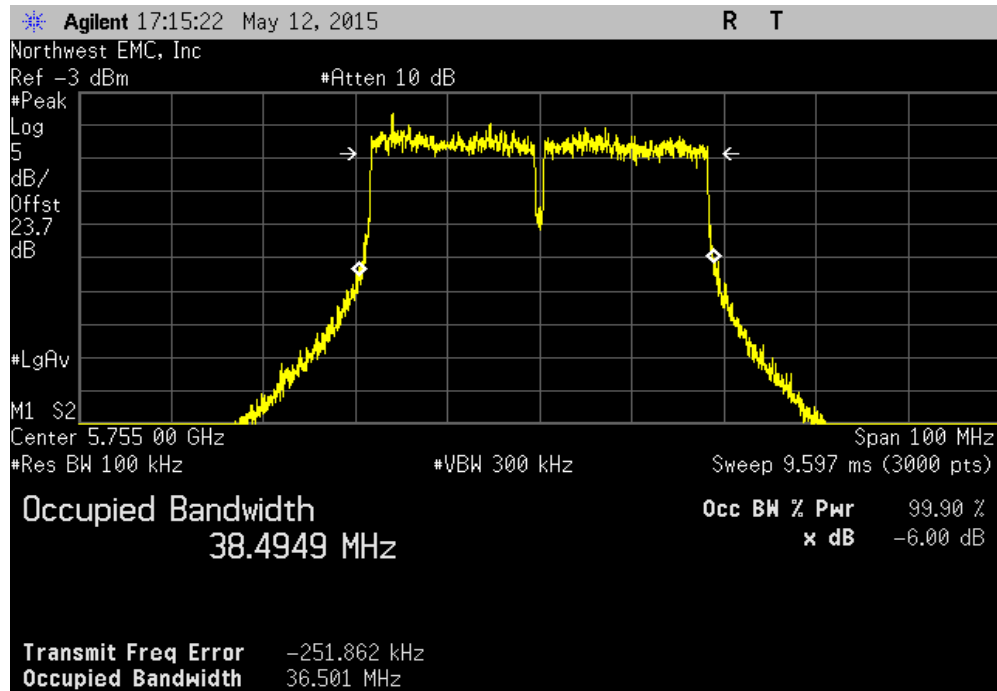


40 MHz, Chain B, 802.11(n) MCS15, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.476 MHz	500 kHz	Pass

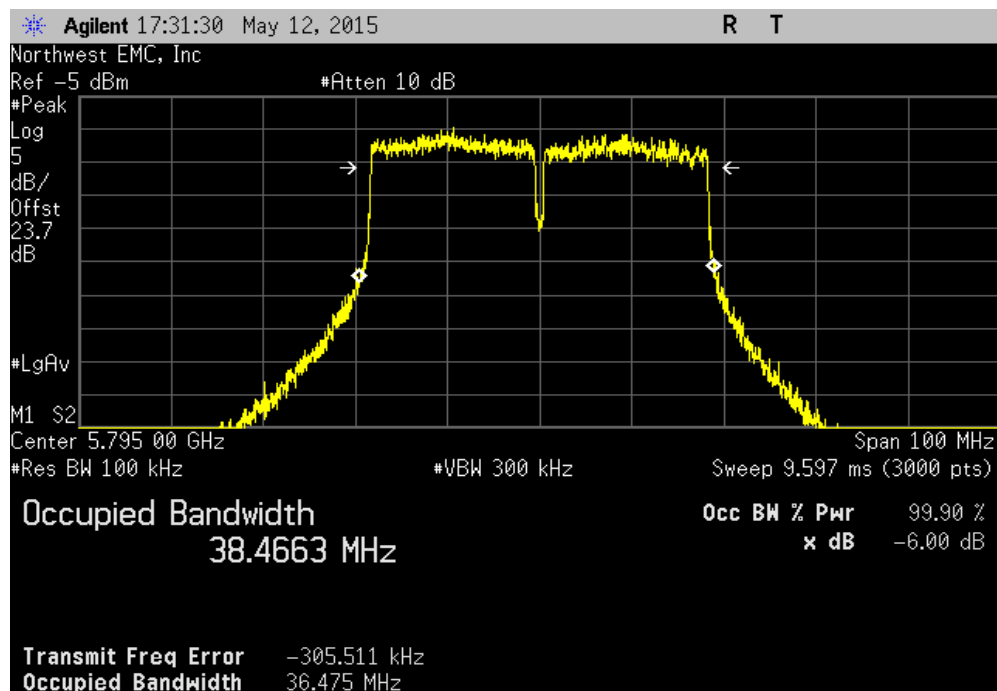


OCCUPIED BANDWIDTH

40 MHz, Chain C, 802.11(n) MCS8, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.501 MHz	500 kHz	Pass

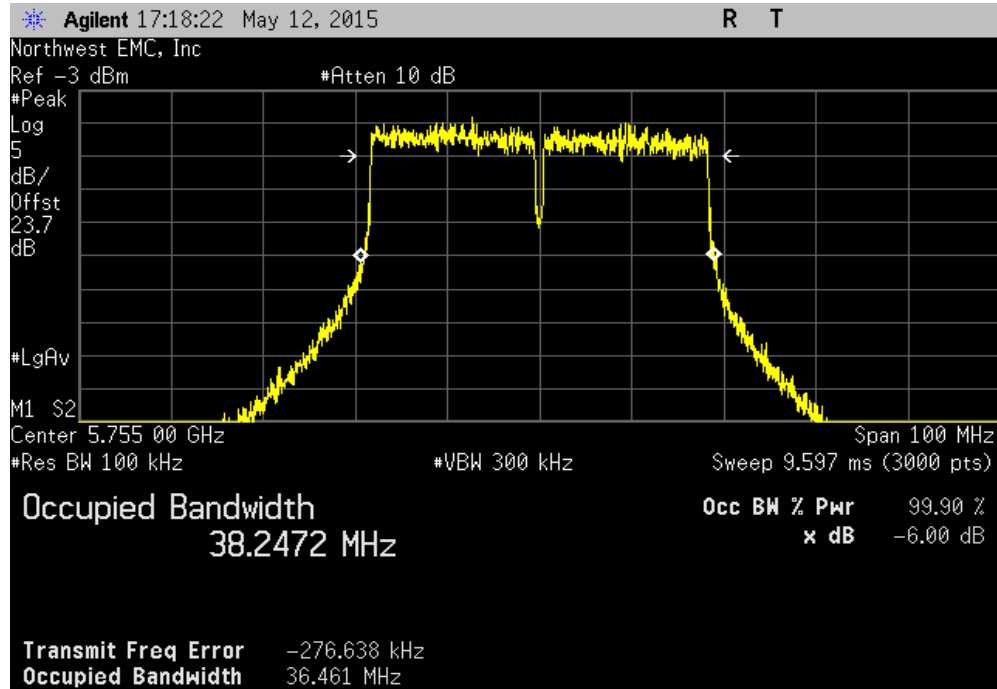


40 MHz, Chain C, 802.11(n) MCS8, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.475 MHz	500 kHz	Pass

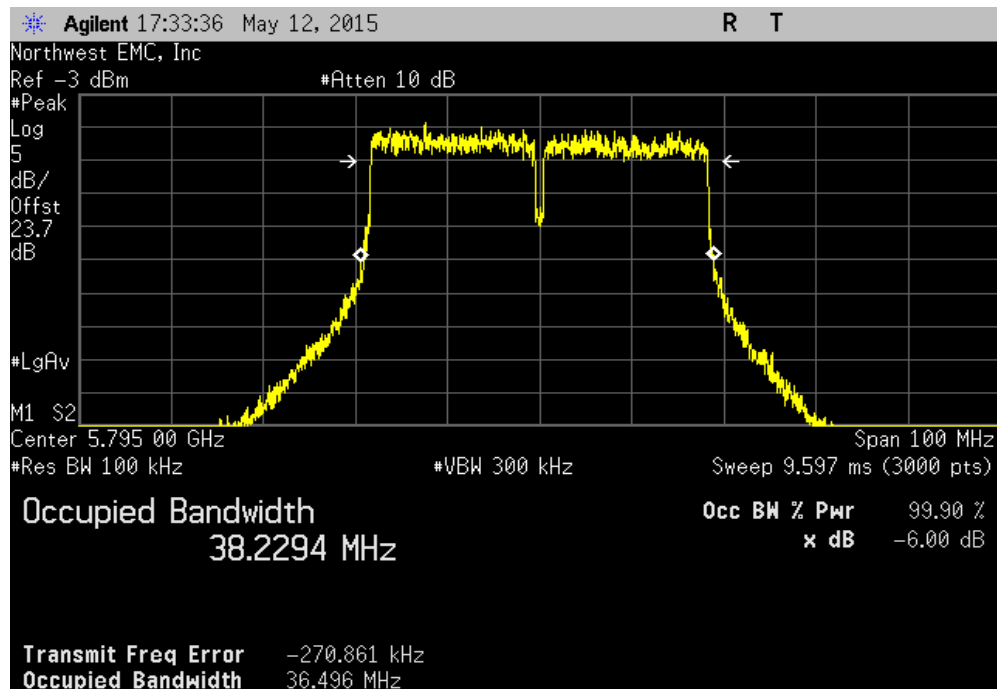


OCCUPIED BANDWIDTH

40 MHz, Chain C, 802.11(n) MCS15, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.461 MHz	500 kHz	Pass



40 MHz, Chain C, 802.11(n) MCS15, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.496 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator, 20dB	Fairview Microwave	SA18E-10	TKS	4/8/2015	12
40GHz DC Block	Fairview Microwave	SD3379	AMN	4/8/2015	12
Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to the channels and modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer.

OCCUPIED BANDWIDTH - 5.8 GHz SINGLE



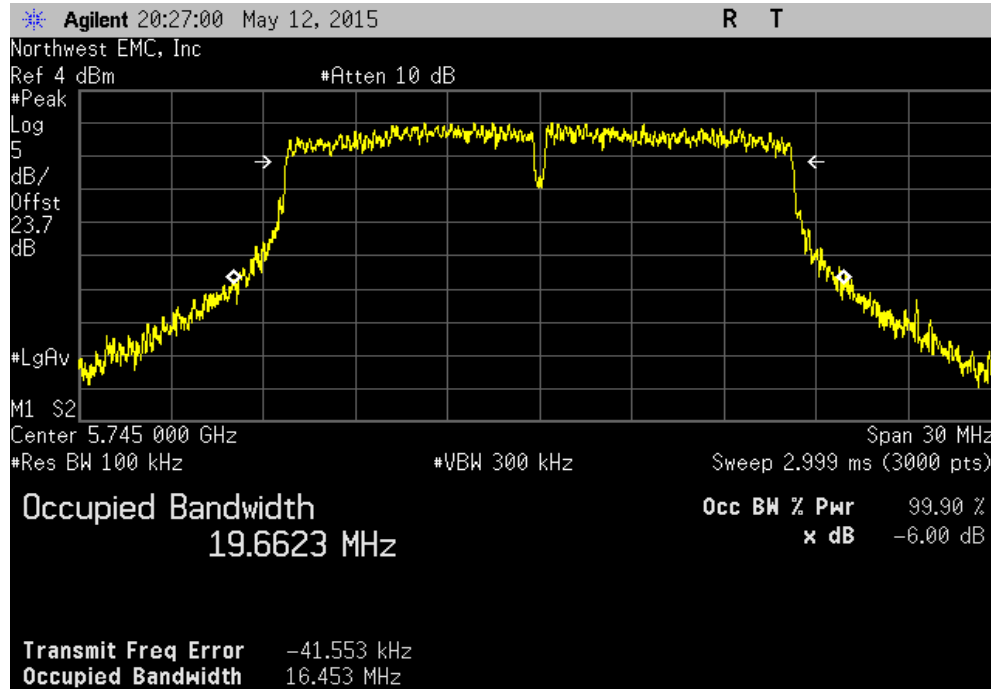
XMR 2015.01.14

EUT: RLX2-IHNF		Work Order: PROS0221	
Serial Number: 000D8DF095CE		Date: 05/11/15	
Customer: ProSoft Technology, Inc.		Temperature: 20.5°C	
Attendees: None		Humidity: 44%	
Project: None		Barometric Pres.: 1015	
Tested by: Johnny Candelas		Power: 120V/60Hz	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2015		ANSI C63.10:2009	
COMMENTS			
Offset 23.46dB (DC Block+20dB Attenuator+Coax Cable) for 5.3 & 5.6GHz / 23.67dB for 5.8GHz			
Power Setting - Max			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Value	Limit (>) Result
20 MHz			
Chain A			
802.11(a) 6 Mbps			
	Channel 149, Low Channel	16.453 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.44 MHz	500 kHz Pass
	Channel 165, High Channel	16.448 MHz	500 kHz Pass
802.11(a) 36 Mbps			
	Channel 149, Low Channel	16.48 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.448 MHz	500 kHz Pass
	Channel 165, High Channel	16.429 MHz	500 kHz Pass
802.11(a) 54 Mbps			
	Channel 149, Low Channel	16.418 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.393 MHz	500 kHz Pass
	Channel 165, High Channel	16.423 MHz	500 kHz Pass
802.11(n) MCS0			
	Channel 149, Low Channel	17.699 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.45 MHz	500 kHz Pass
	Channel 165, High Channel	17.654 MHz	500 kHz Pass
802.11(n) MCS7			
	Channel 149, Low Channel	17.586 MHz	500 kHz Pass
	Channel 157, Mid Channel	17.615 MHz	500 kHz Pass
	Channel 165, High Channel	17.579 MHz	500 kHz Pass
Chain B			
802.11(a) 6 Mbps			
	Channel 149, Low Channel	16.481 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.446 MHz	500 kHz Pass
	Channel 165, High Channel	16.466 MHz	500 kHz Pass
802.11(a) 36 Mbps			
	Channel 149, Low Channel	16.437 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.485 MHz	500 kHz Pass
	Channel 165, High Channel	16.477 MHz	500 kHz Pass
802.11(a) 54 Mbps			
	Channel 149, Low Channel	16.429 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.429 MHz	500 kHz Pass
	Channel 165, High Channel	16.433 MHz	500 kHz Pass
802.11(n) MCS0			
	Channel 149, Low Channel	17.724 MHz	500 kHz Pass
	Channel 157, Mid Channel	17.592 MHz	500 kHz Pass
	Channel 165, High Channel	17.702 MHz	500 kHz Pass
802.11(n) MCS7			
	Channel 149, Low Channel	17.7 MHz	500 kHz Pass
	Channel 157, Mid Channel	17.739 MHz	500 kHz Pass
	Channel 165, High Channel	17.628 MHz	500 kHz Pass
Chain C			
802.11(a) 6 Mbps			
	Channel 149, Low Channel	16.429 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.479 MHz	500 kHz Pass
	Channel 165, High Channel	16.432 MHz	500 kHz Pass
802.11(a) 36 Mbps			
	Channel 149, Low Channel	16.438 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.453 MHz	500 kHz Pass
	Channel 165, High Channel	16.464 MHz	500 kHz Pass
802.11(a) 54 Mbps			
	Channel 149, Low Channel	16.438 MHz	500 kHz Pass
	Channel 157, Mid Channel	16.466 MHz	500 kHz Pass
	Channel 165, High Channel	16.411 MHz	500 kHz Pass
802.11(n) MCS0			
	Channel 149, Low Channel	17.687 MHz	500 kHz Pass
	Channel 157, Mid Channel	17.727 MHz	500 kHz Pass
	Channel 165, High Channel	17.411 MHz	500 kHz Pass
802.11(n) MCS7			
	Channel 149, Low Channel	17.692 MHz	500 kHz Pass
	Channel 157, Mid Channel	17.642 MHz	500 kHz Pass
	Channel 165, High Channel	17.718 MHz	500 kHz Pass
40 MHz			
Chain A			
802.11(n) MCS0			
	Channel 149/153, Low Channel	36.528 MHz	500 kHz Pass
	Channel 157/161, High Channel	36.531 MHz	500 kHz Pass
802.11(n) MCS7			
	Channel 149/153, Low Channel	36.451 MHz	500 kHz Pass
	Channel 157/161, High Channel	36.454 MHz	500 kHz Pass

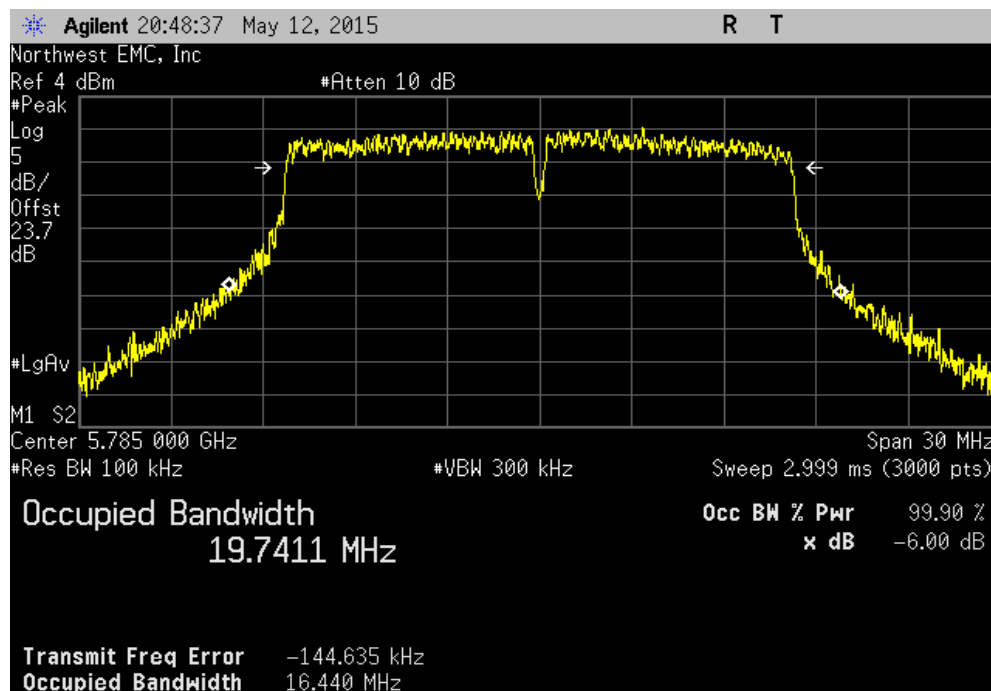
Chain B				
802.11(n) MCS0				
	Channel 149/153, Low Channel	36.475 MHz	500 kHz	Pass
	Channel 157/161, High Channel	36.474 MHz	500 kHz	Pass
802.11(n) MCS7				
	Channel 149/153, Low Channel	36.487 MHz	500 kHz	Pass
	Channel 157/161, High Channel	36.476 MHz	500 kHz	Pass
Chain C				
802.11(n) MCS0				
	Channel 149/153, Low Channel	36.501 MHz	500 kHz	Pass
	Channel 157/161, High Channel	36.475 MHz	500 kHz	Pass
802.11(n) MCS7				
	Channel 149/153, Low Channel	36.461 MHz	500 kHz	Pass
	Channel 157/161, High Channel	36.496 MHz	500 kHz	Pass

OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.453 MHz	500 kHz	Pass

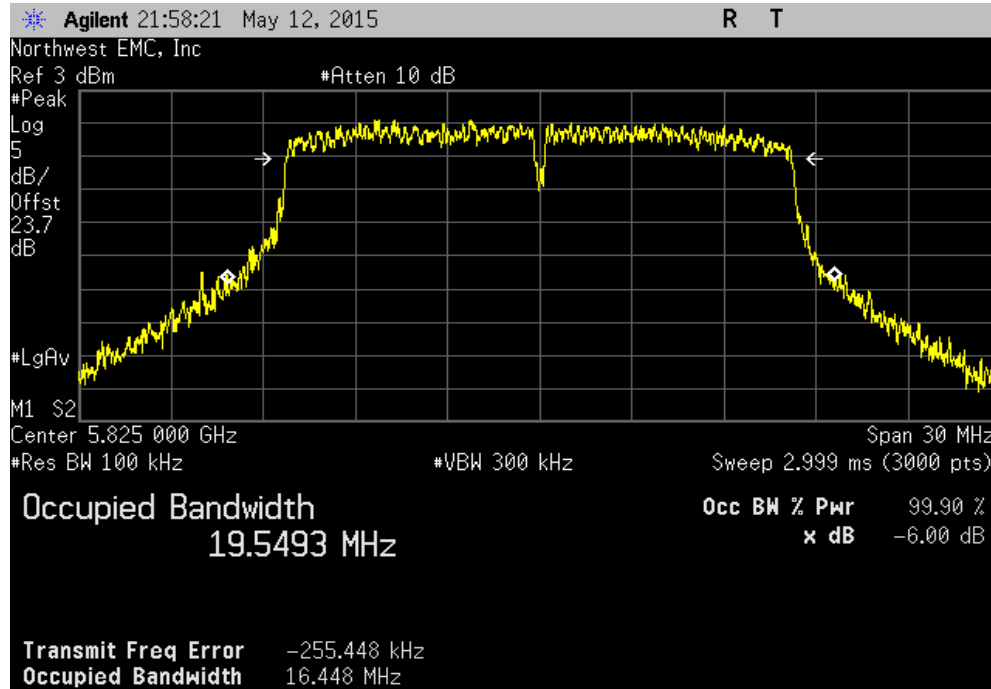


20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.44 MHz	500 kHz	Pass

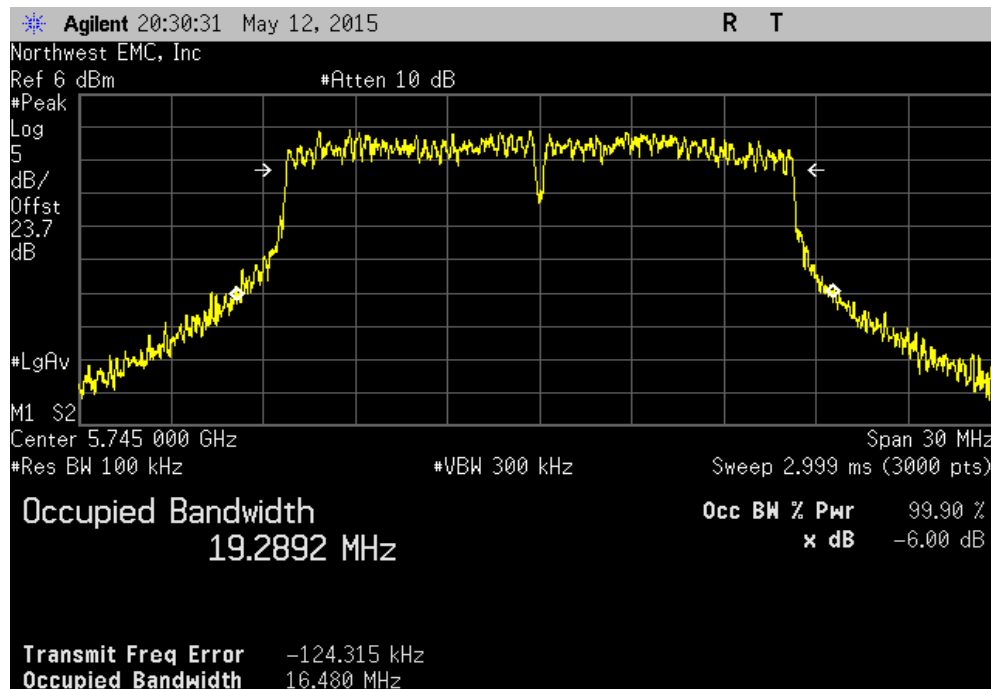


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.448 MHz	500 kHz	Pass

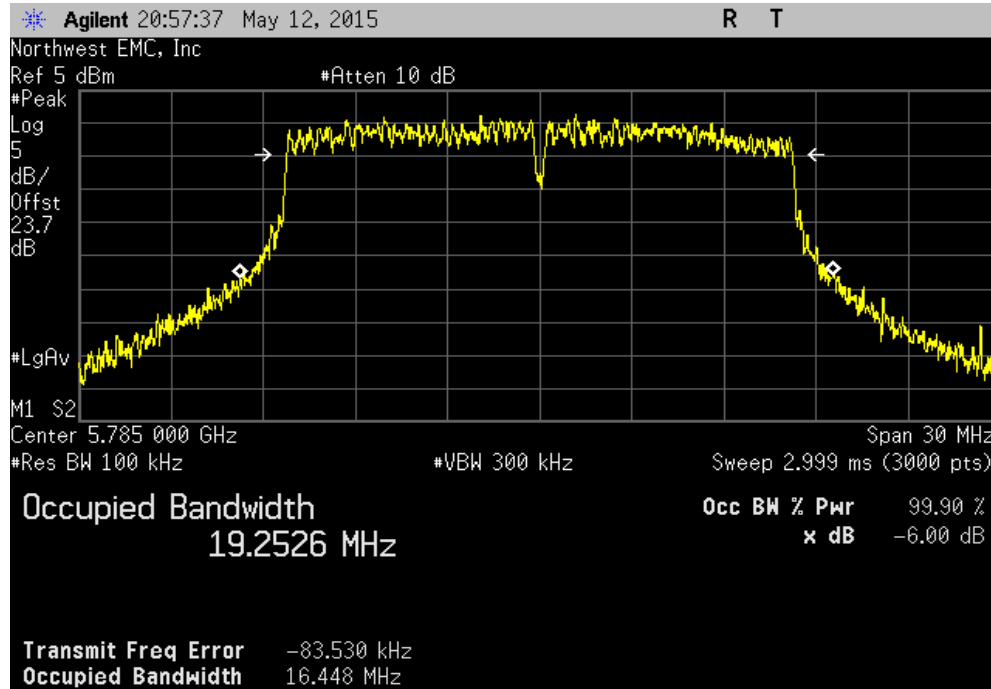


20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.48 MHz	500 kHz	Pass

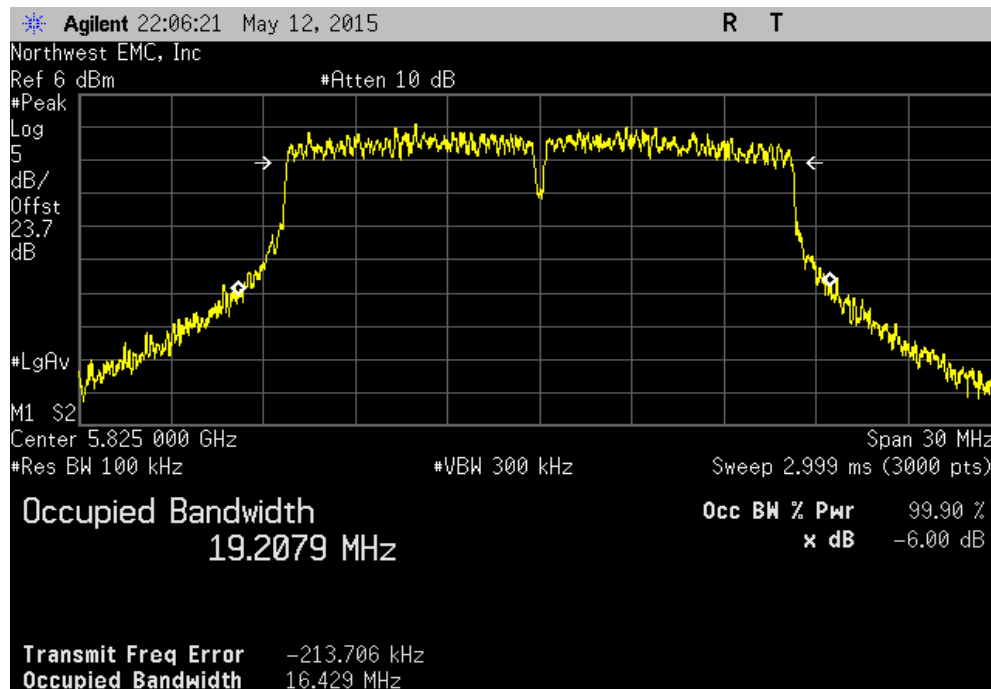


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.448 MHz	500 kHz	Pass

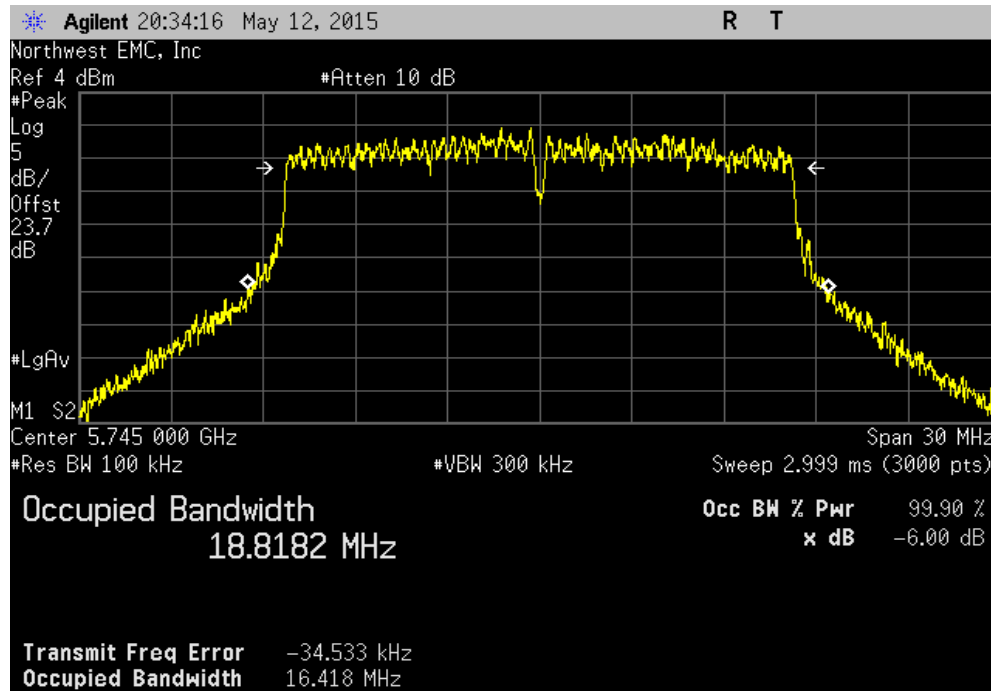


20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.429 MHz	500 kHz	Pass

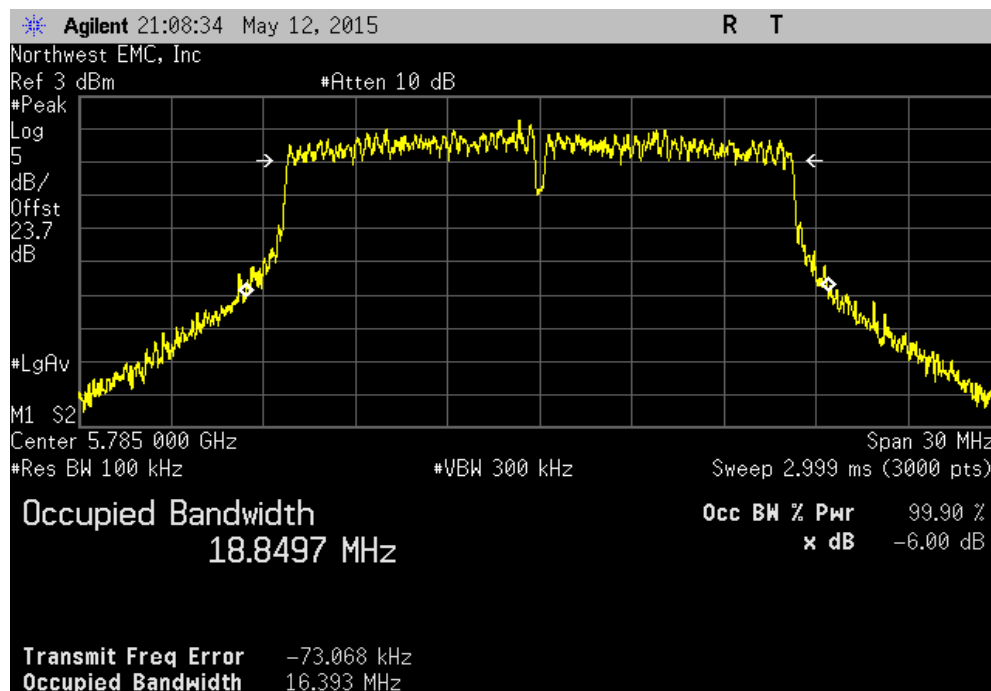


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.418 MHz	500 kHz	Pass

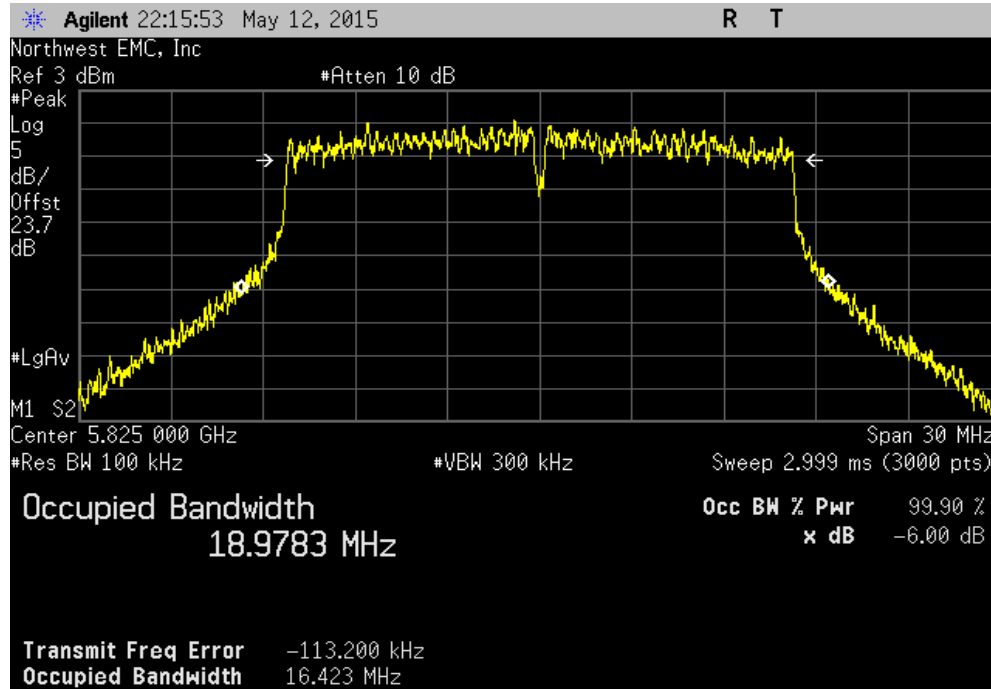


20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.393 MHz	500 kHz	Pass

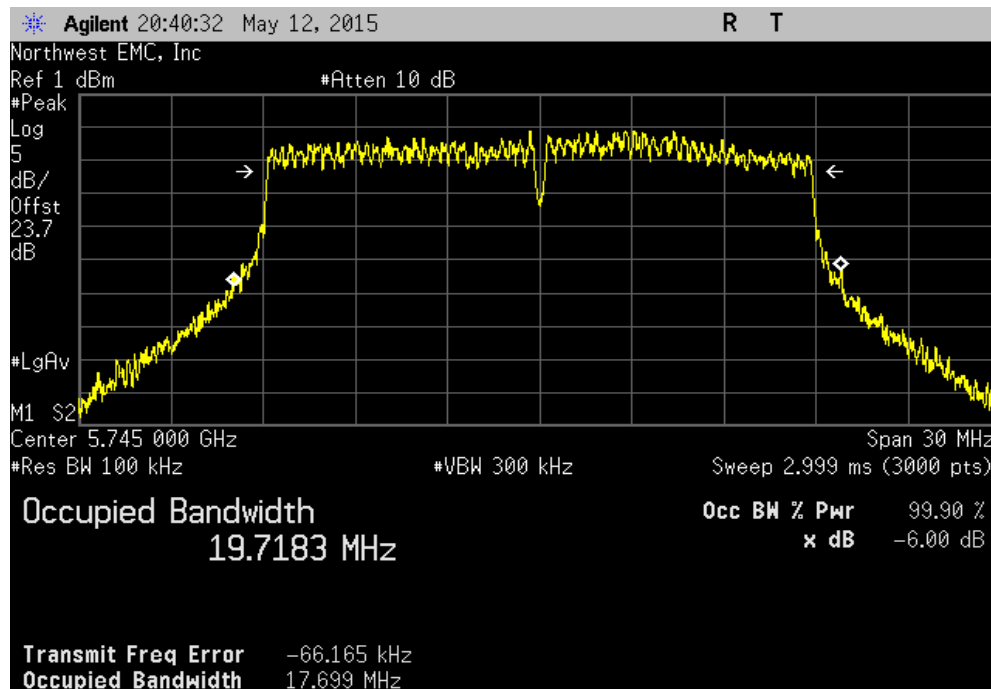


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.423 MHz	500 kHz	Pass

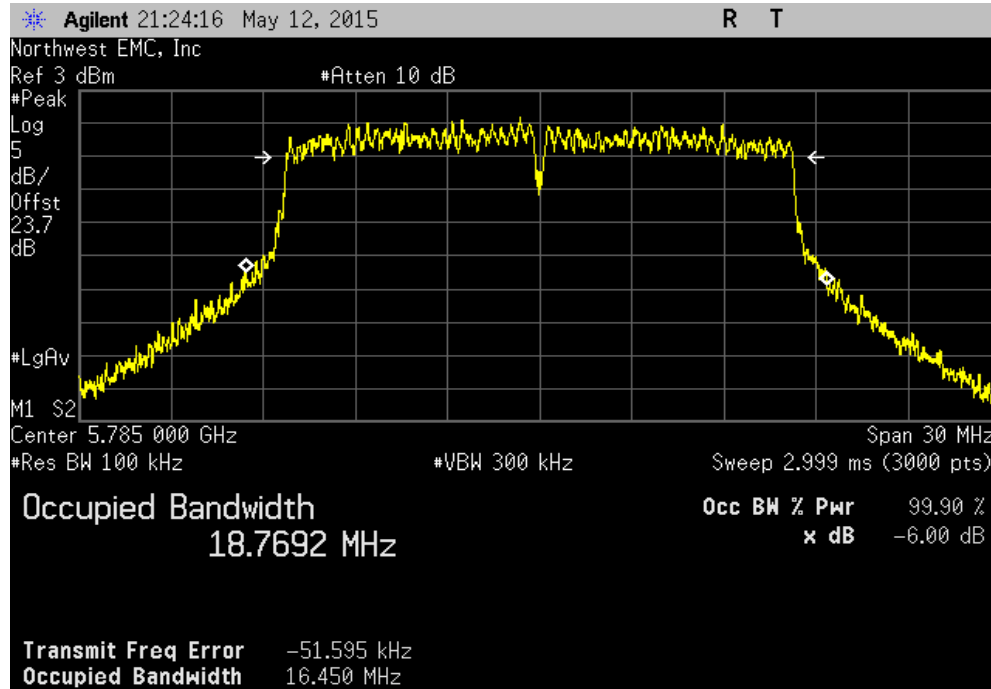


20 MHz, Chain A, 802.11(n) MCS0, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.699 MHz	500 kHz	Pass

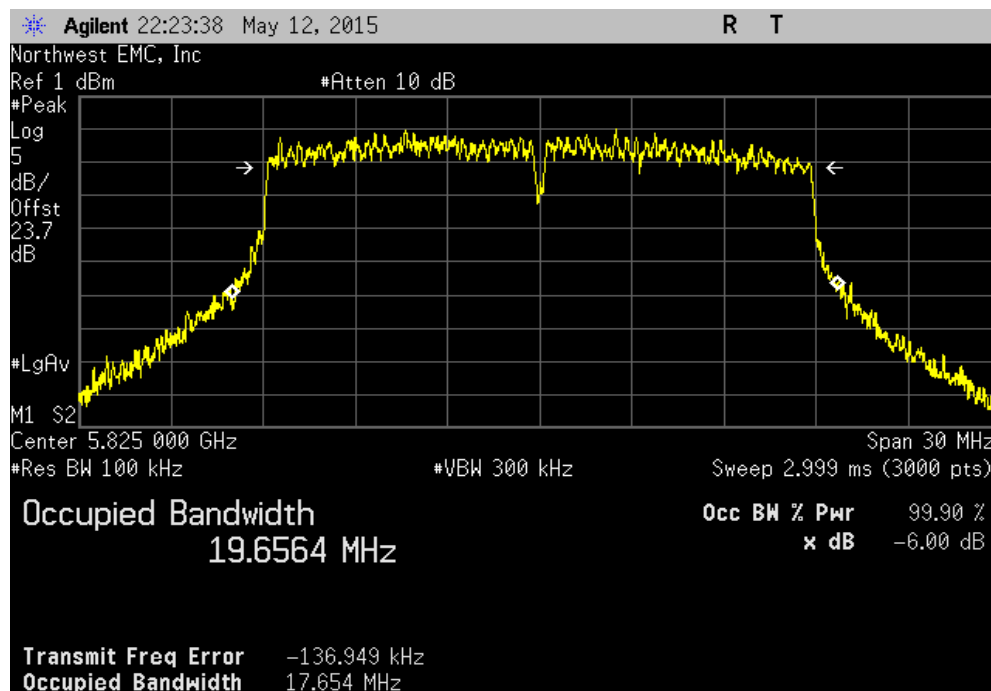


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS0, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.45 MHz	500 kHz	Pass

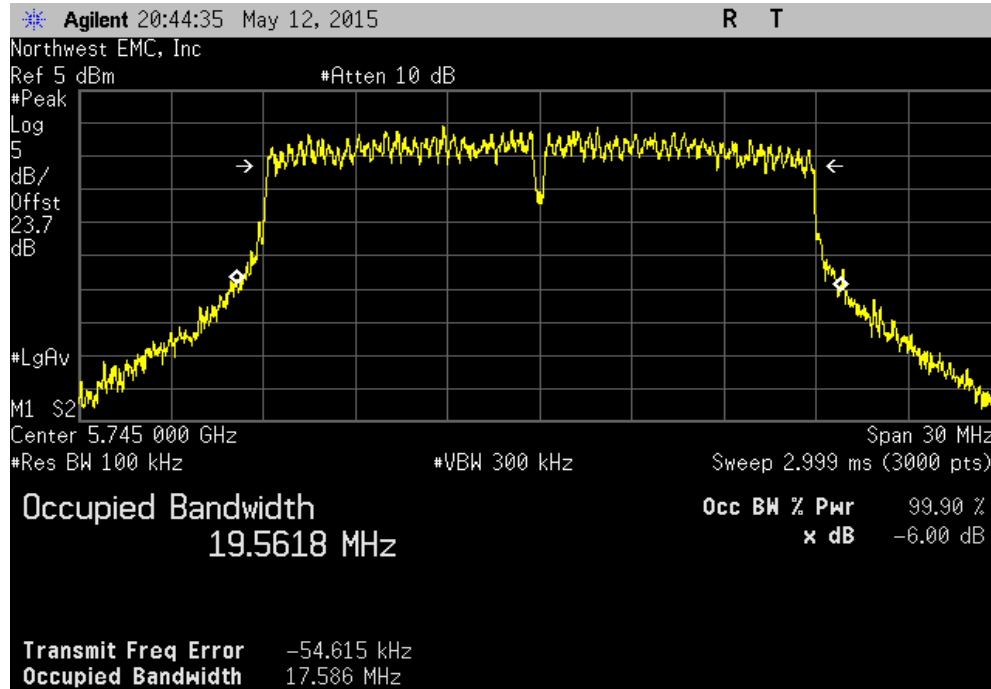


20 MHz, Chain A, 802.11(n) MCS0, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.654 MHz	500 kHz	Pass

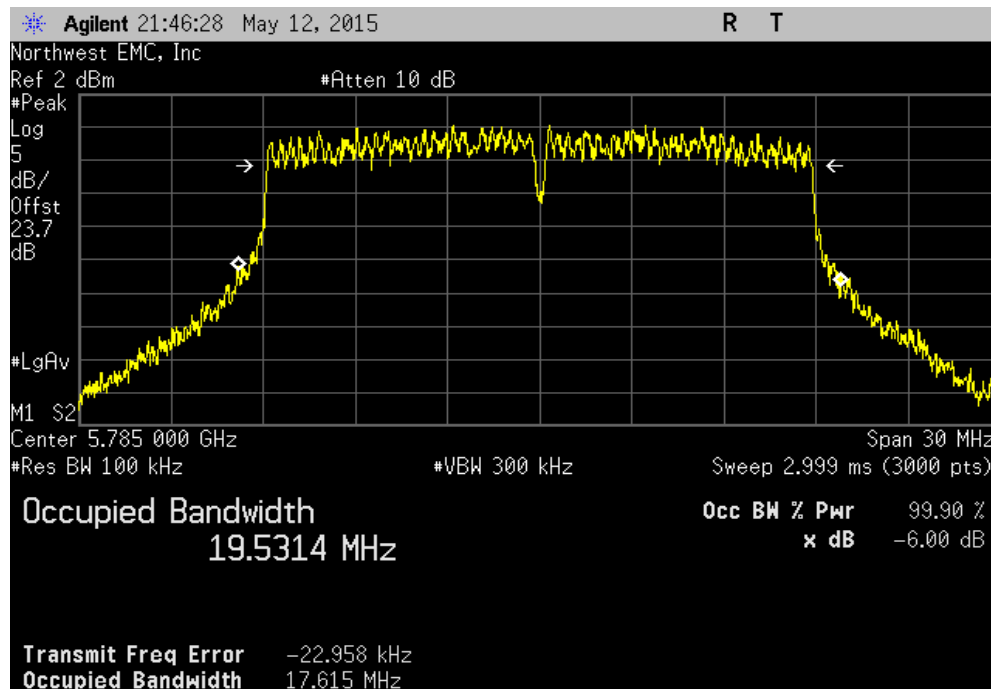


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS7, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.586 MHz	500 kHz	Pass

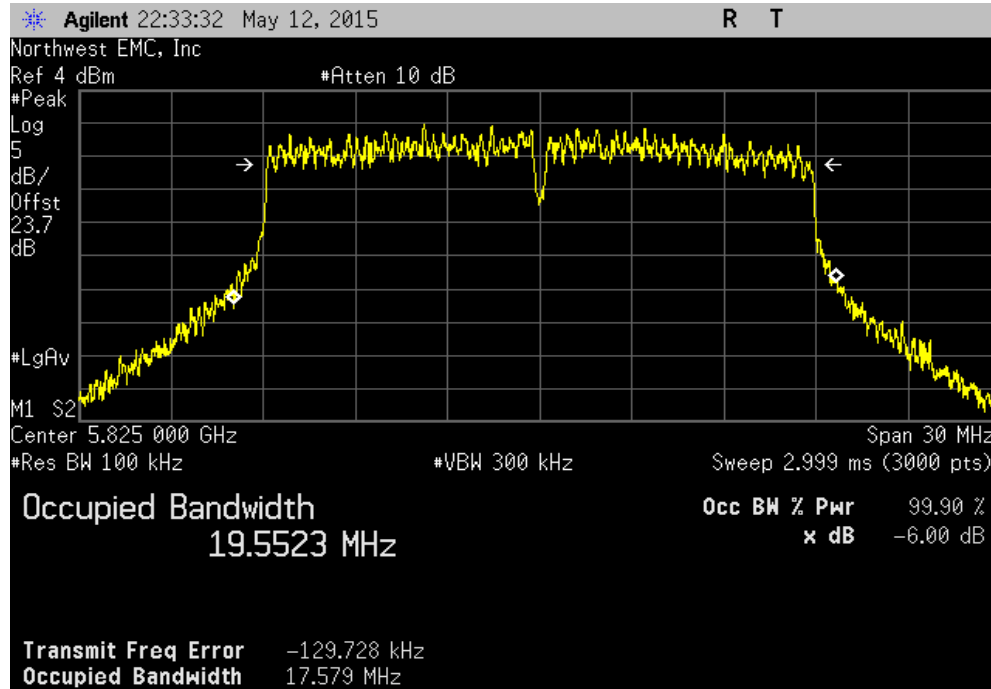


20 MHz, Chain A, 802.11(n) MCS7, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.615 MHz	500 kHz	Pass

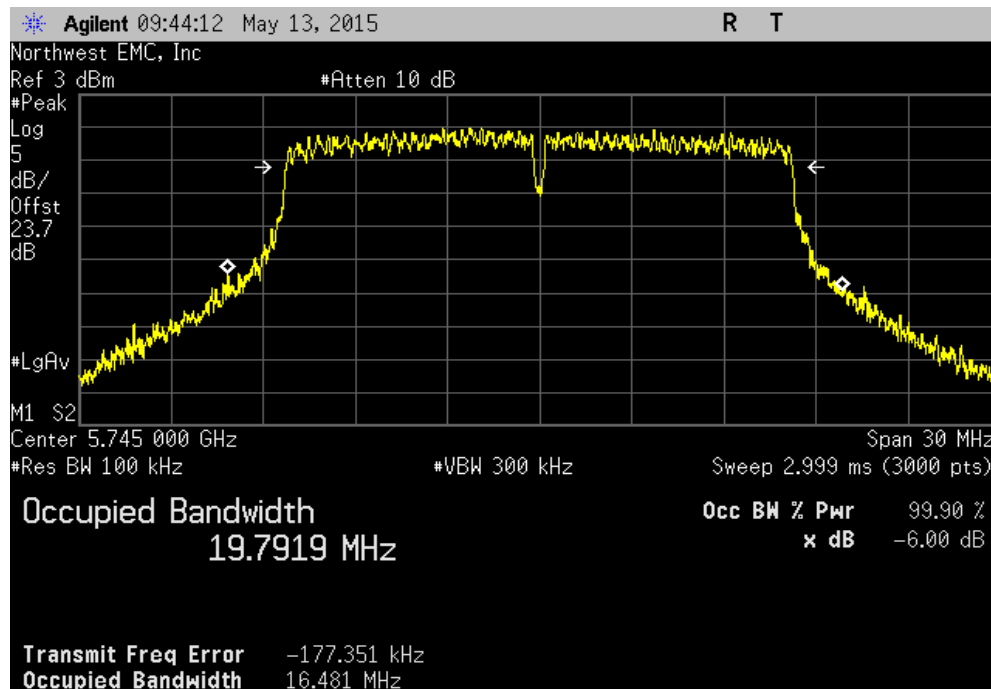


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS7, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.579 MHz	500 kHz	Pass

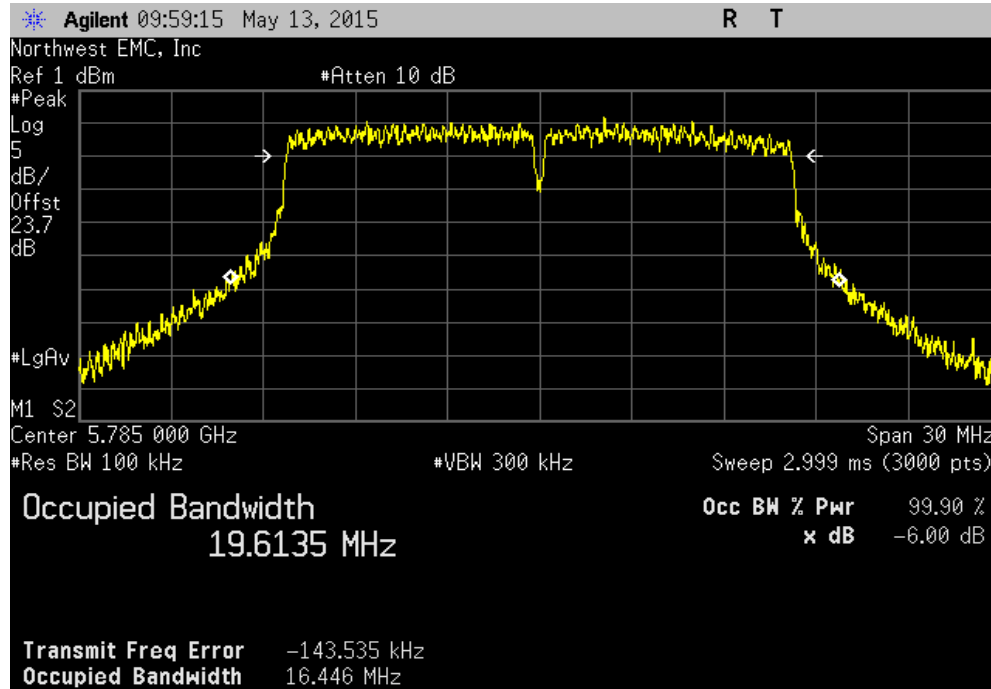


20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.481 MHz	500 kHz	Pass

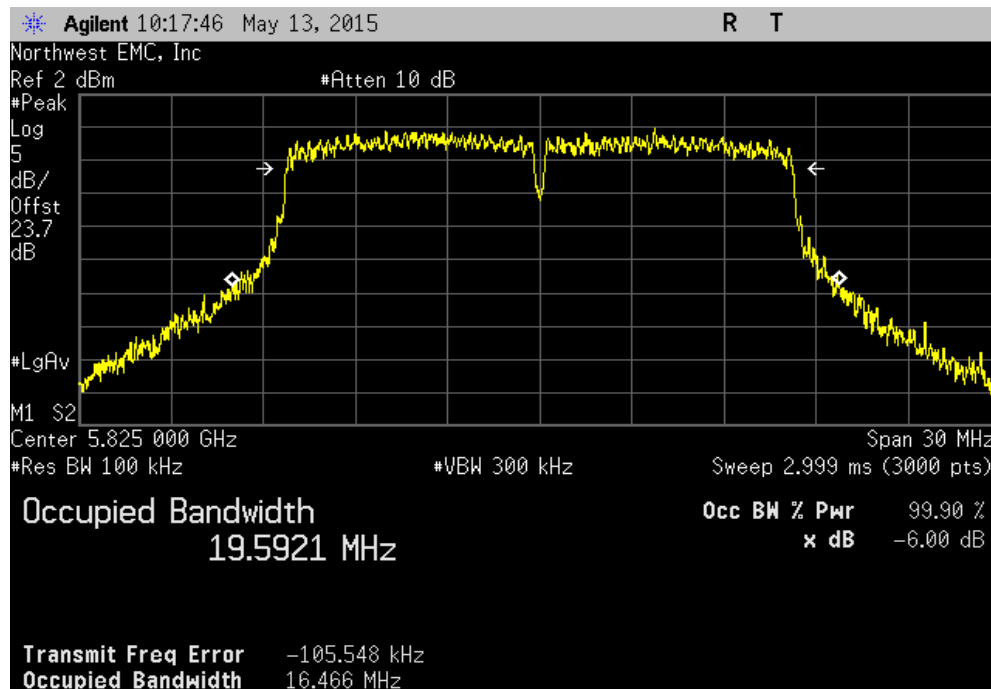


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.446 MHz	500 kHz	Pass

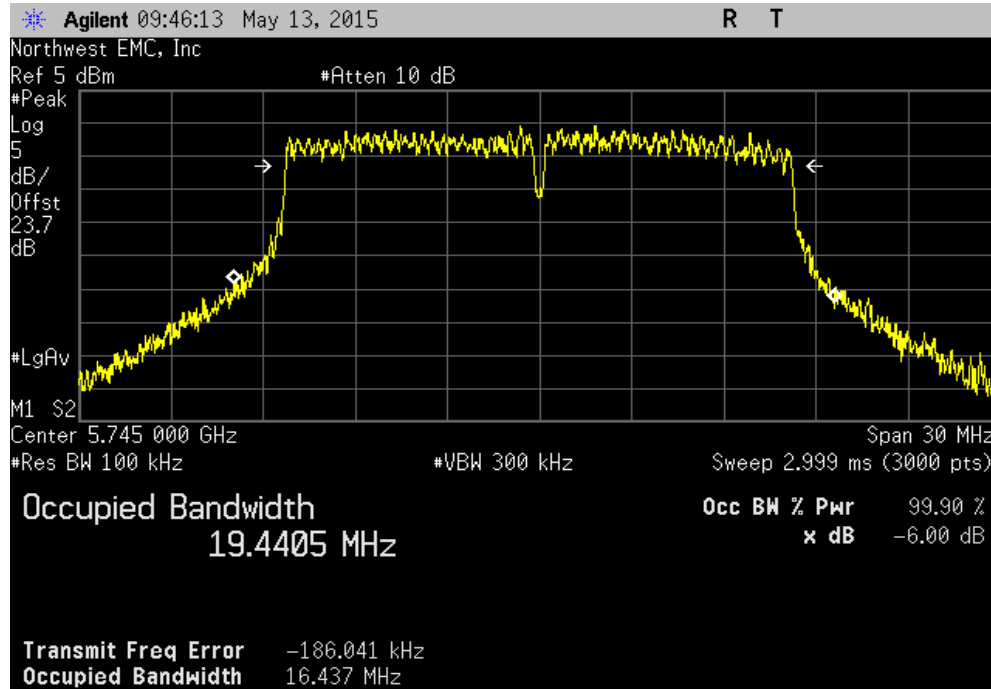


20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.466 MHz	500 kHz	Pass

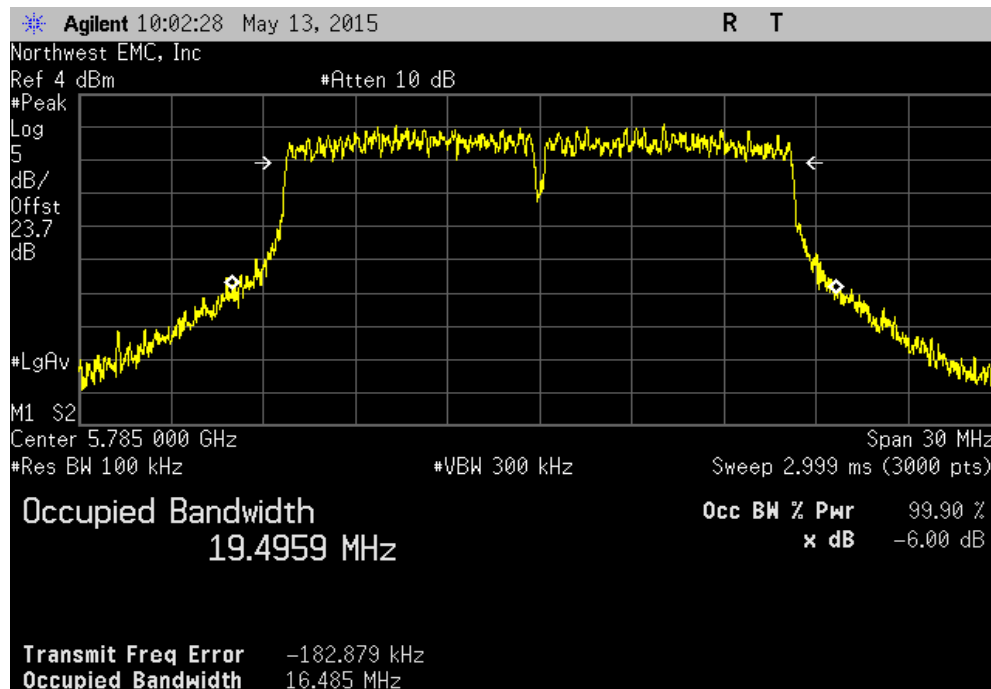


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.437 MHz	500 kHz	Pass

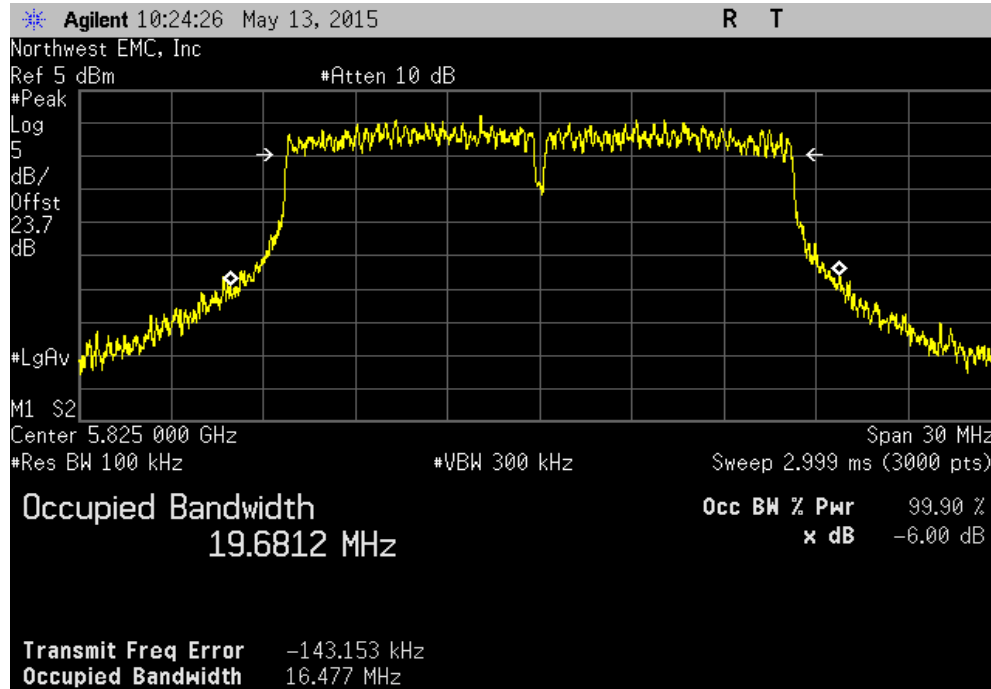


20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.485 MHz	500 kHz	Pass

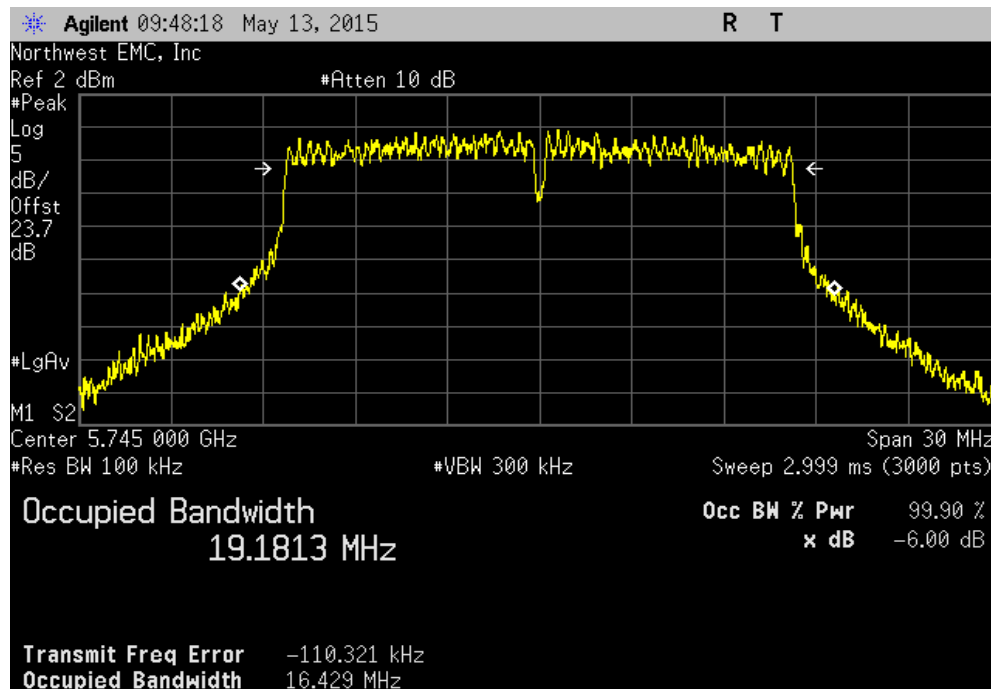


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.477 MHz	500 kHz	Pass

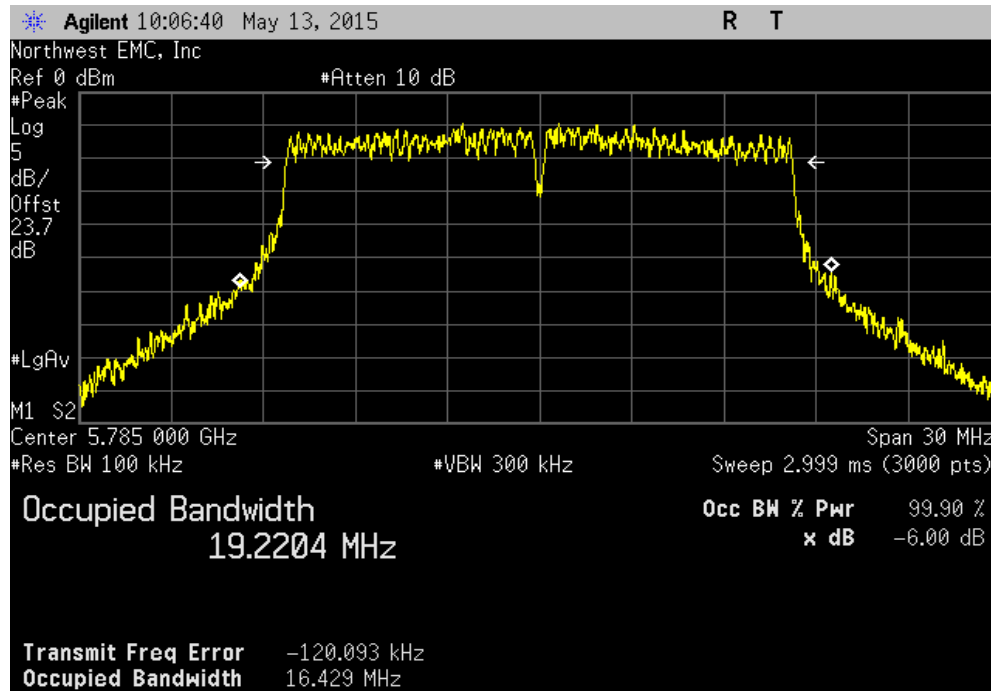


20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.429 MHz	500 kHz	Pass

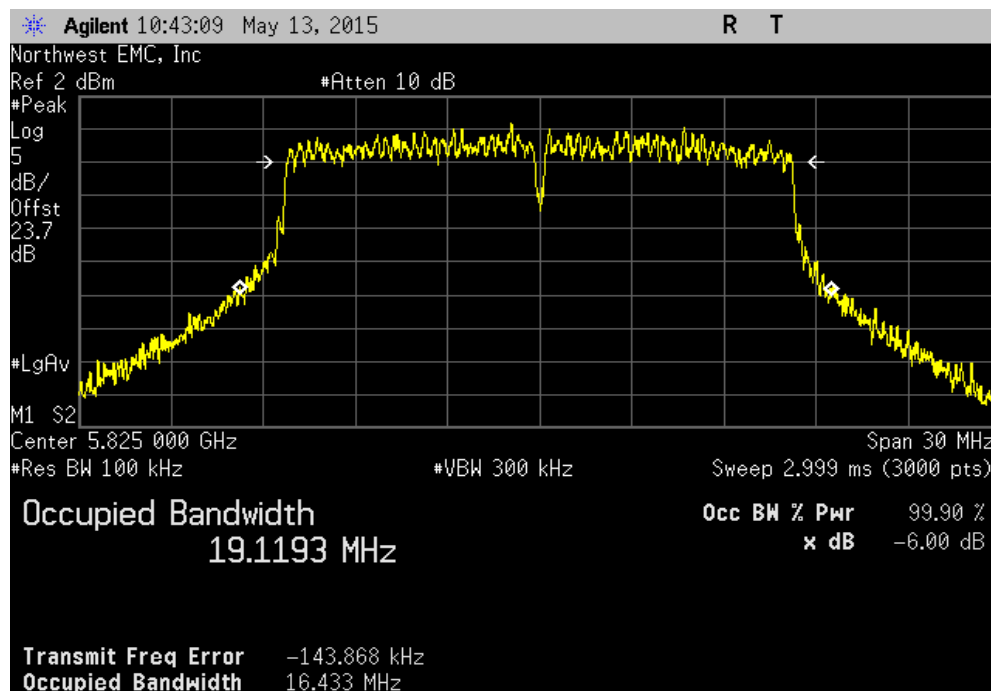


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.429 MHz	500 kHz	Pass

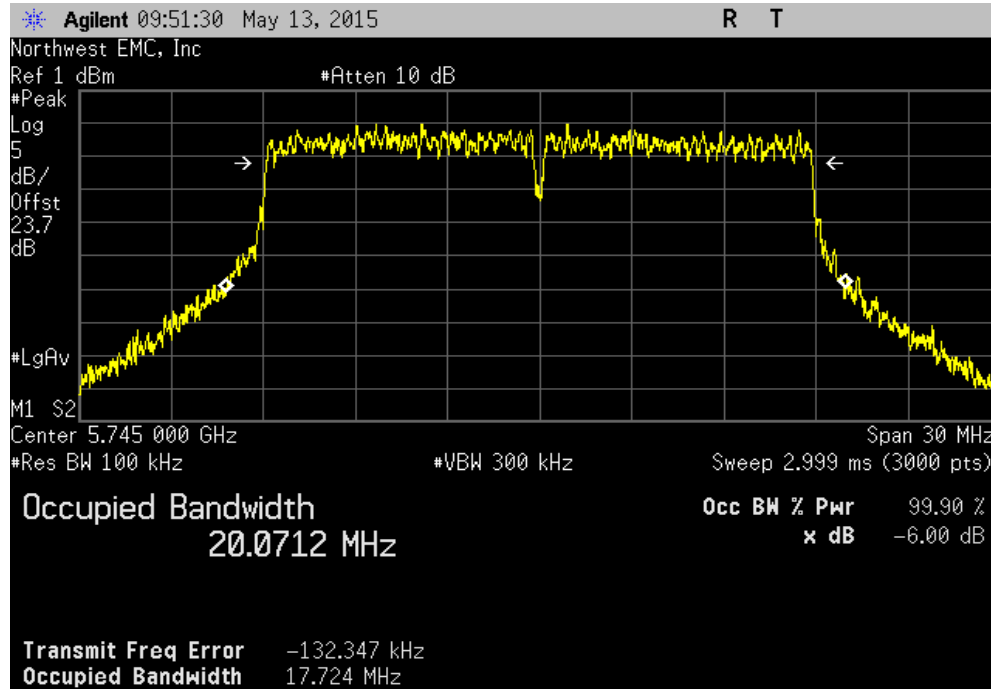


20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.433 MHz	500 kHz	Pass

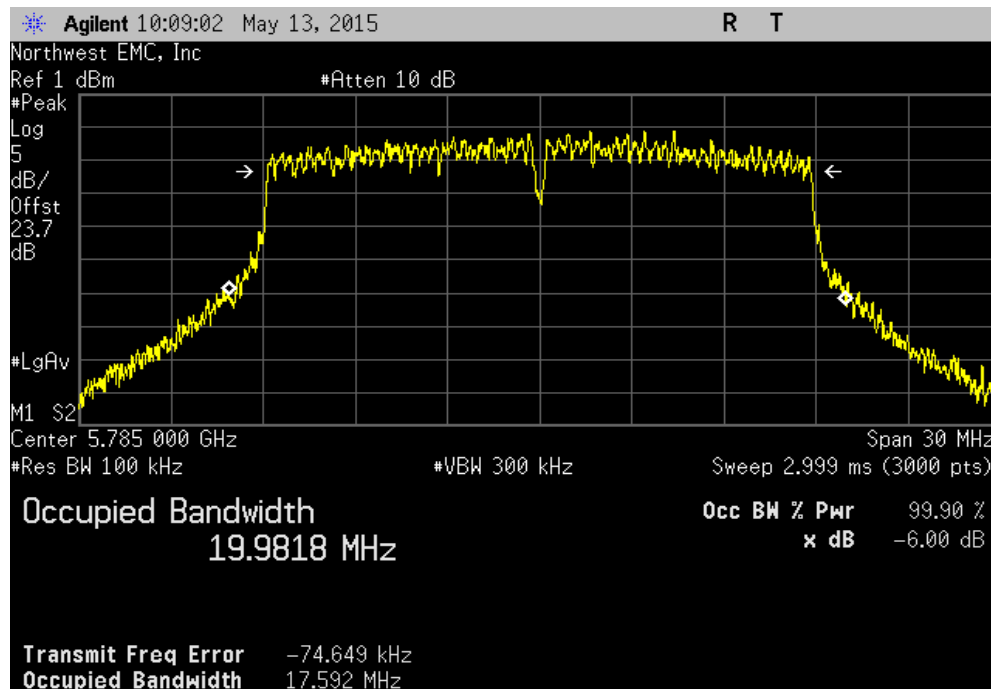


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS0, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.724 MHz	500 kHz	Pass

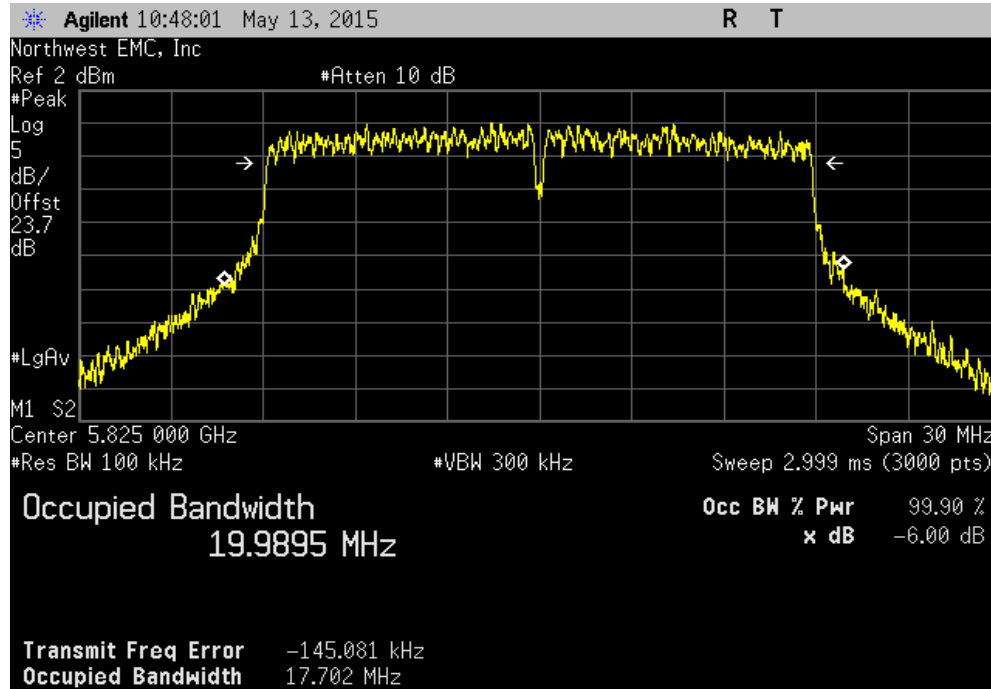


20 MHz, Chain B, 802.11(n) MCS0, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.592 MHz	500 kHz	Pass

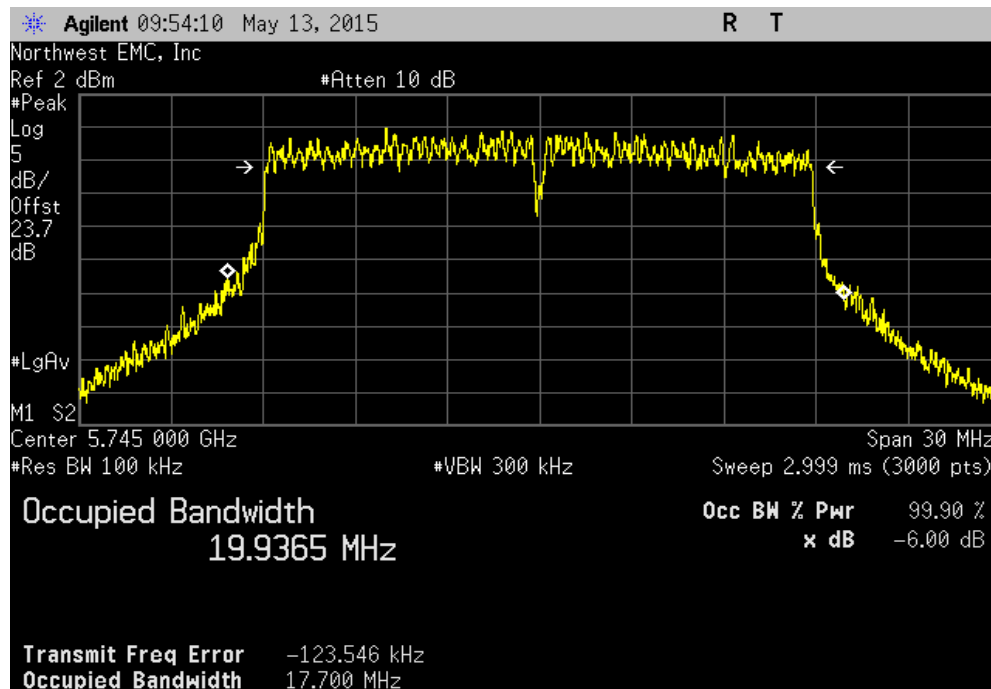


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS0, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.702 MHz	500 kHz	Pass

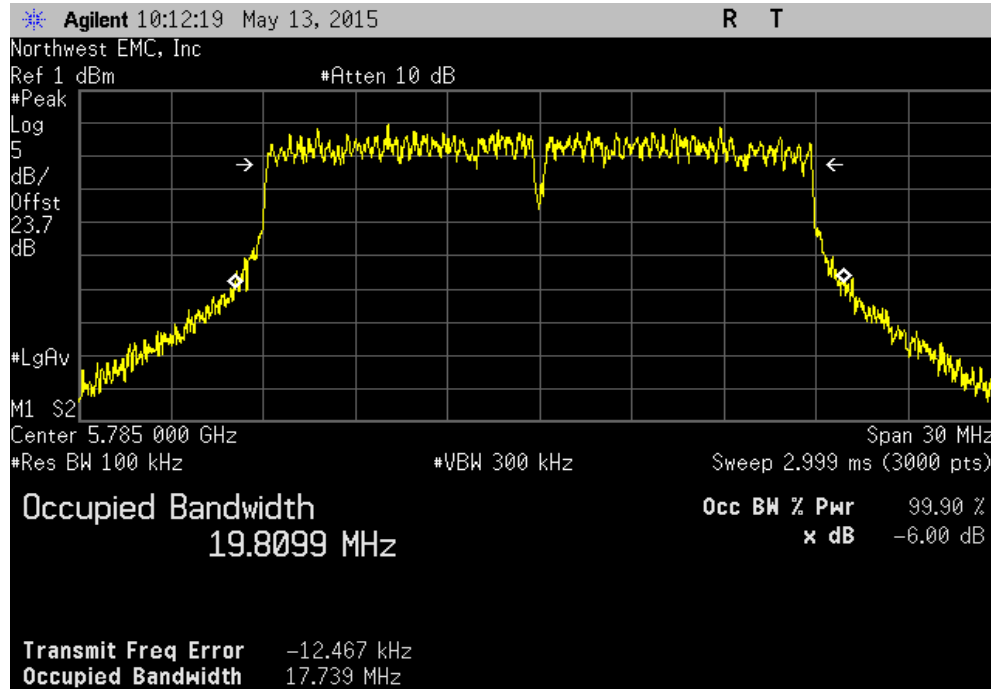


20 MHz, Chain B, 802.11(n) MCS7, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.7 MHz	500 kHz	Pass

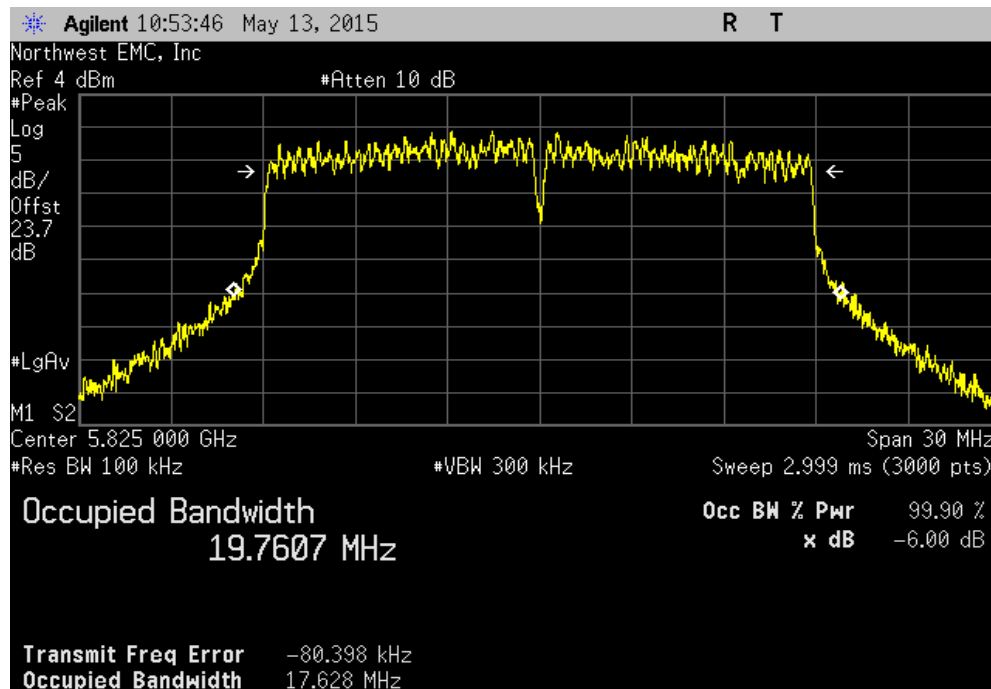


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS7, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.739 MHz	500 kHz	Pass

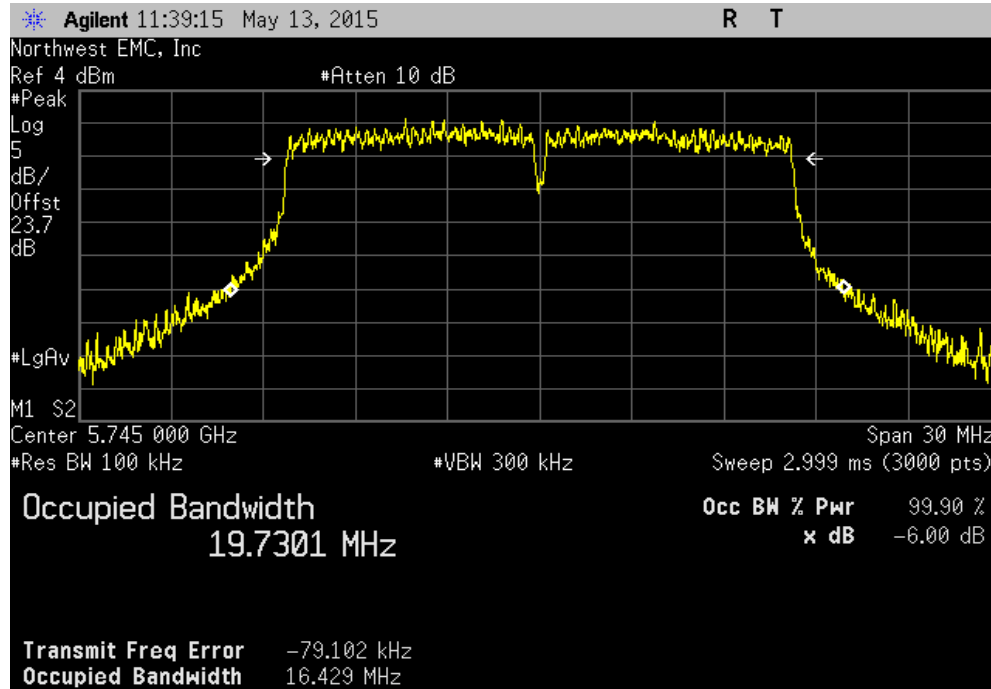


20 MHz, Chain B, 802.11(n) MCS7, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.628 MHz	500 kHz	Pass

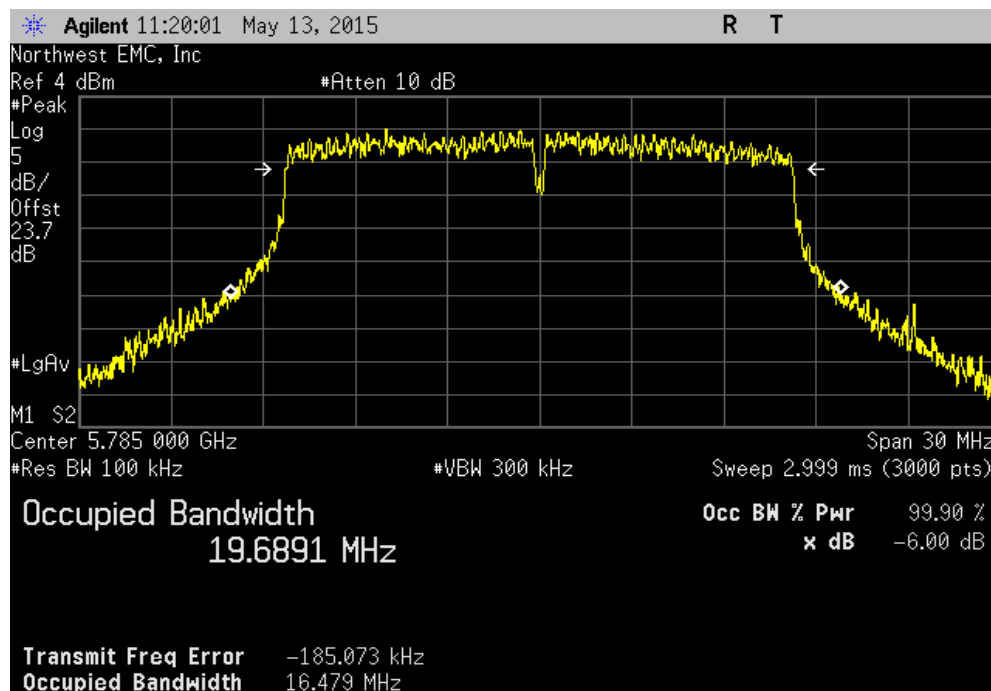


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.429 MHz	500 kHz	Pass

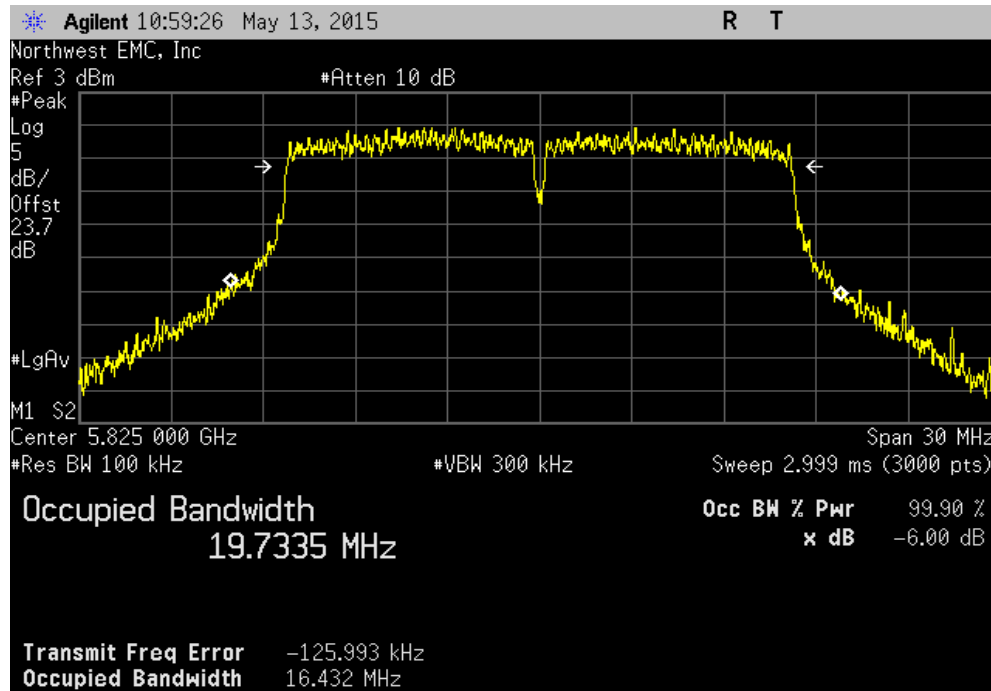


20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.479 MHz	500 kHz	Pass

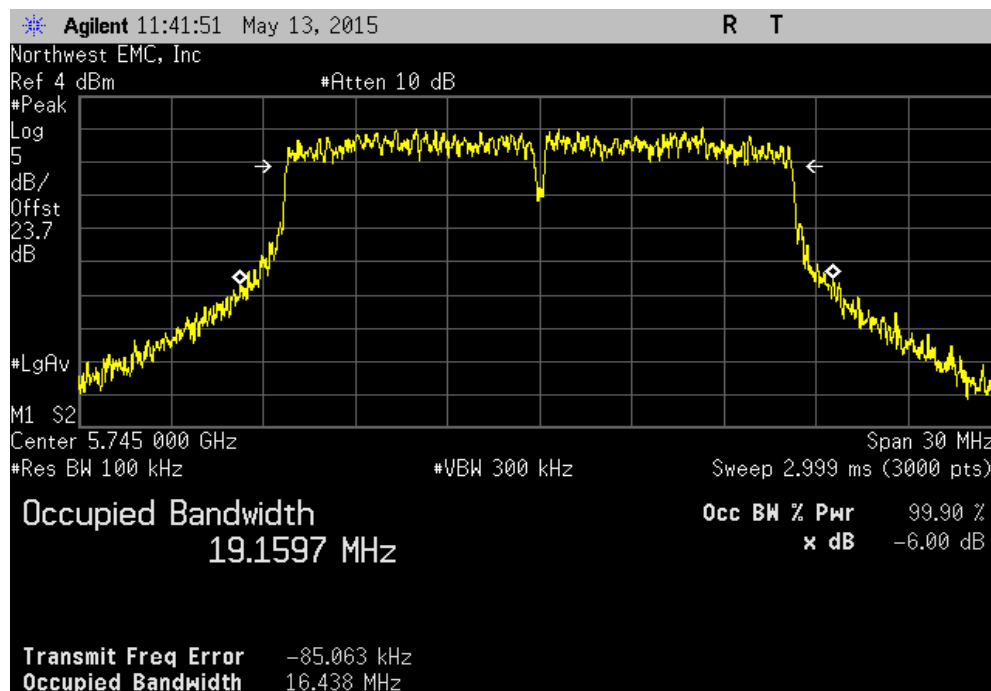


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.432 MHz	500 kHz	Pass

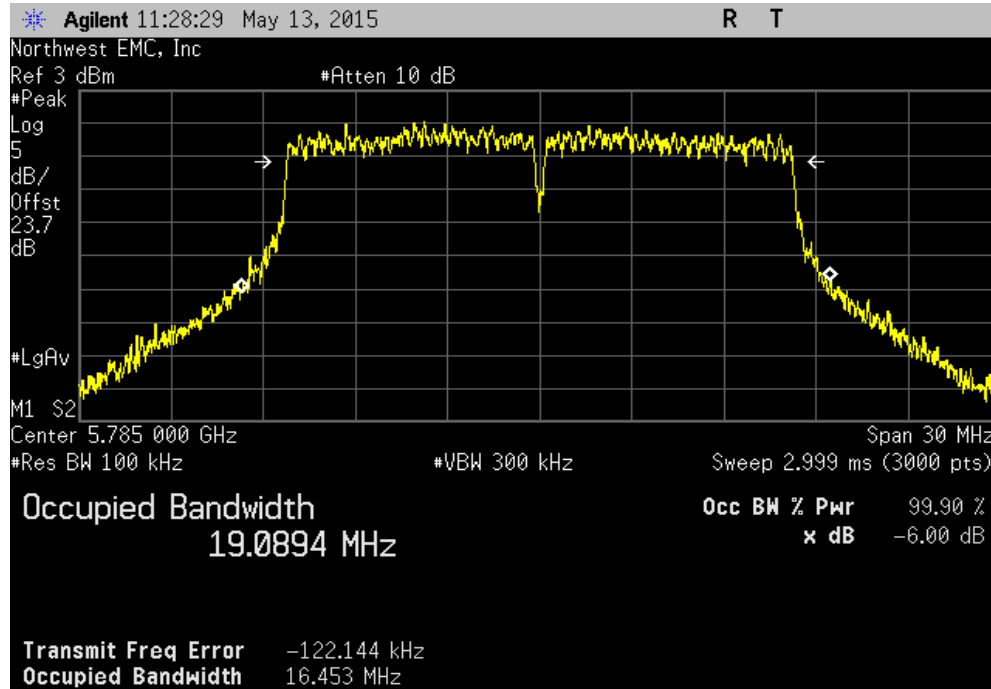


20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.438 MHz	500 kHz	Pass

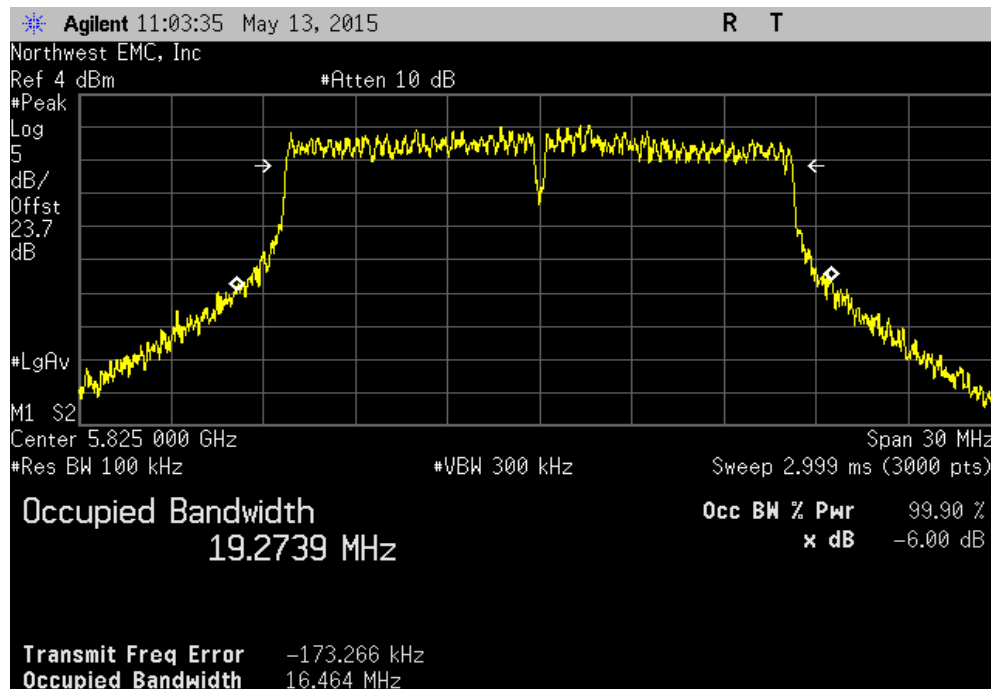


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.453 MHz	500 kHz	Pass

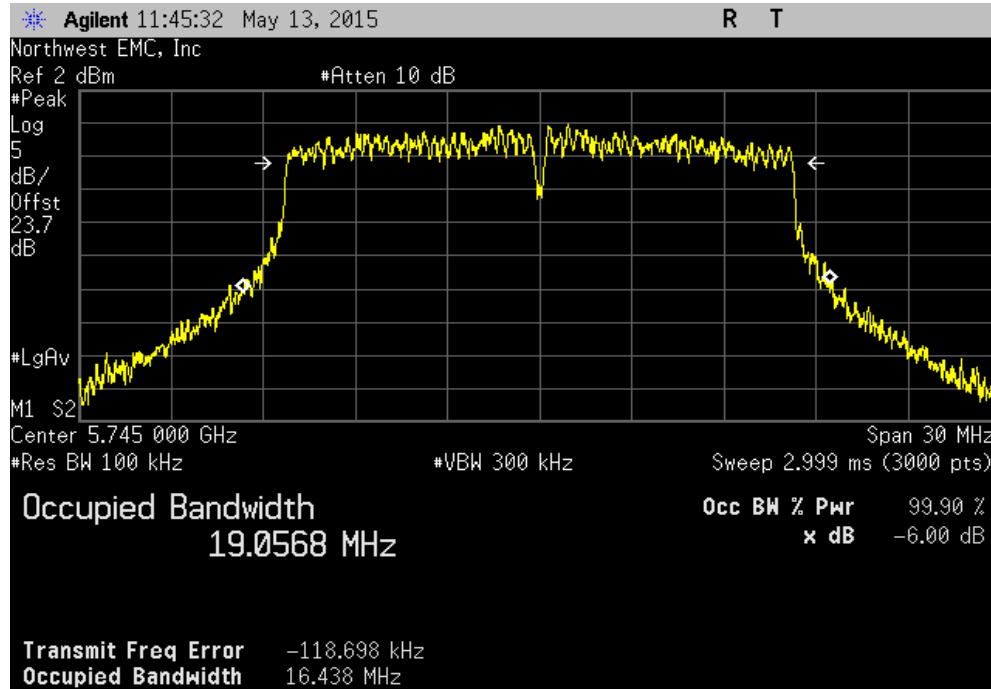


20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.464 MHz	500 kHz	Pass

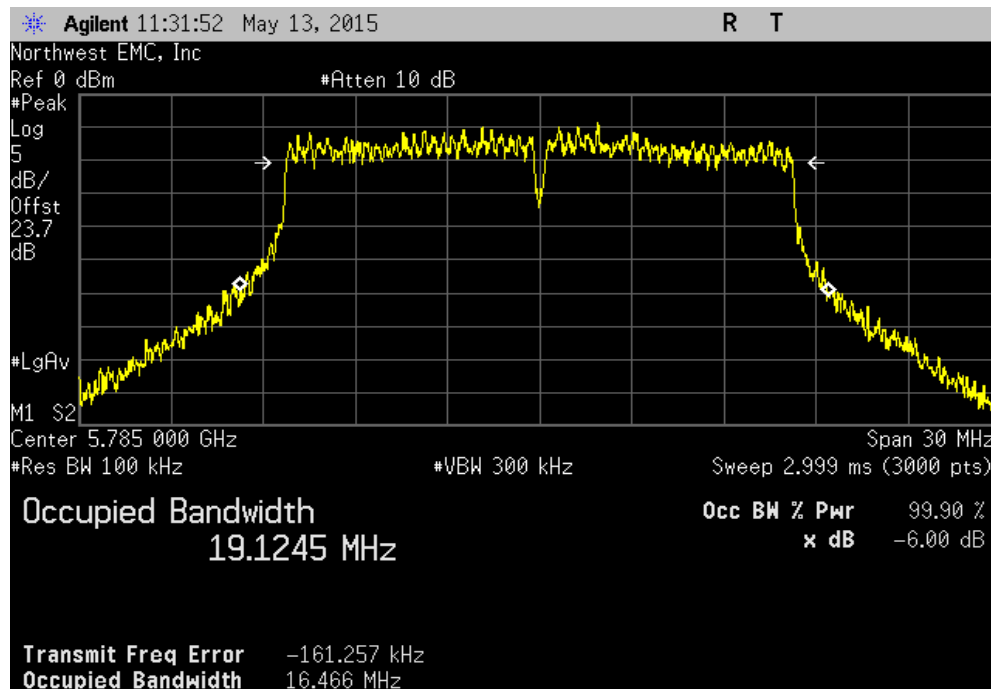


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 149, Low Channel						
				Value	Limit (>)	Result
				16.438 MHz	500 kHz	Pass

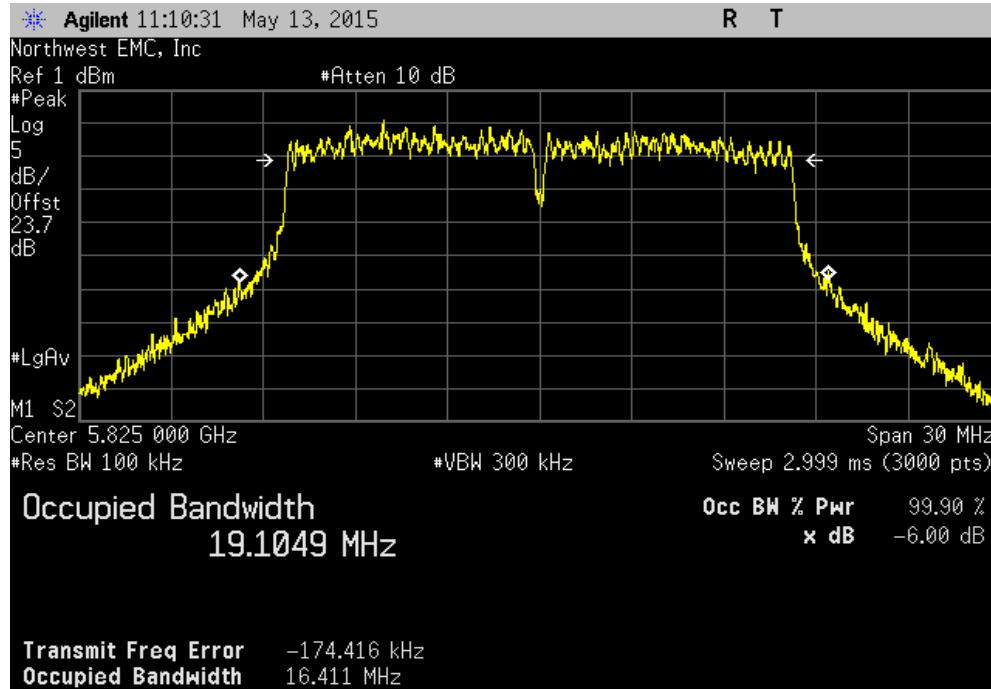


20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				16.466 MHz	500 kHz	Pass

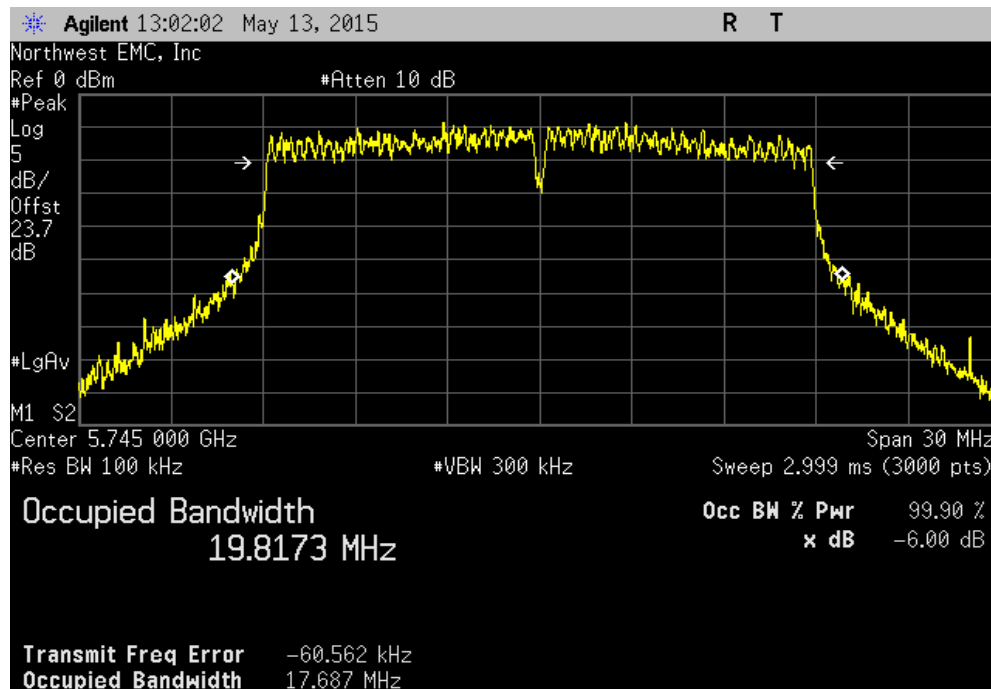


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 165, High Channel						
				Value	Limit (>)	Result
				16.411 MHz	500 kHz	Pass

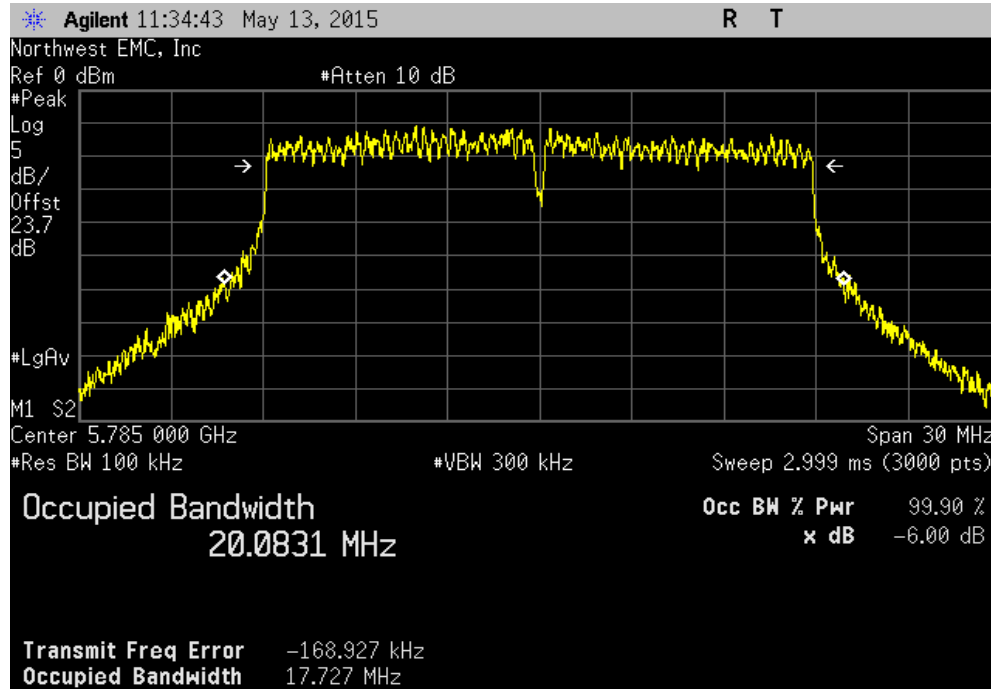


20 MHz, Chain C, 802.11(n) MCS0, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.687 MHz	500 kHz	Pass

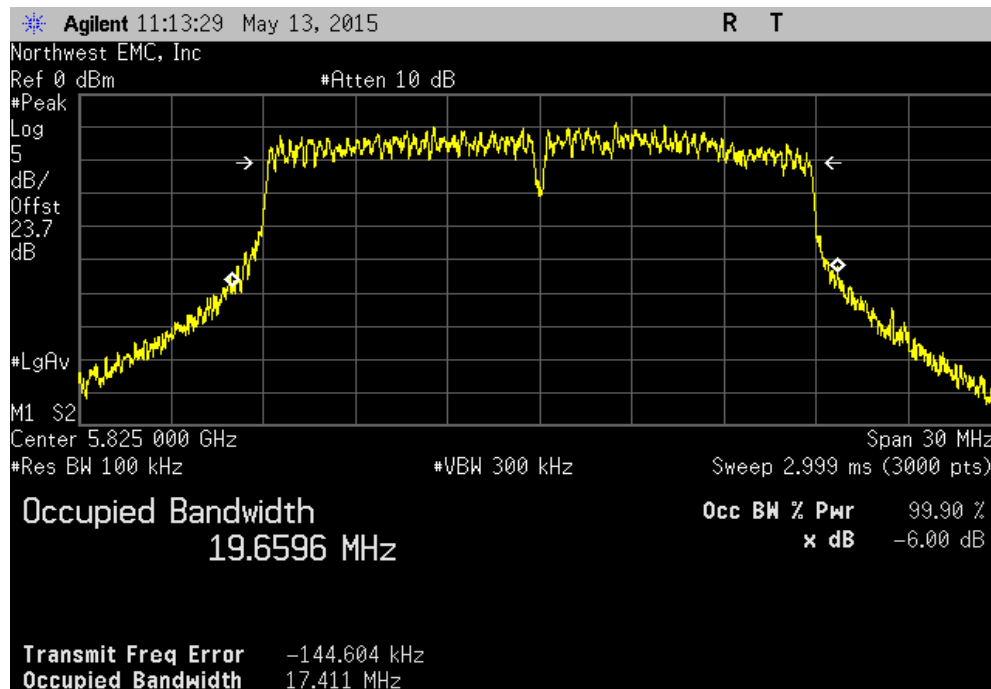


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS0, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.727 MHz	500 kHz	Pass

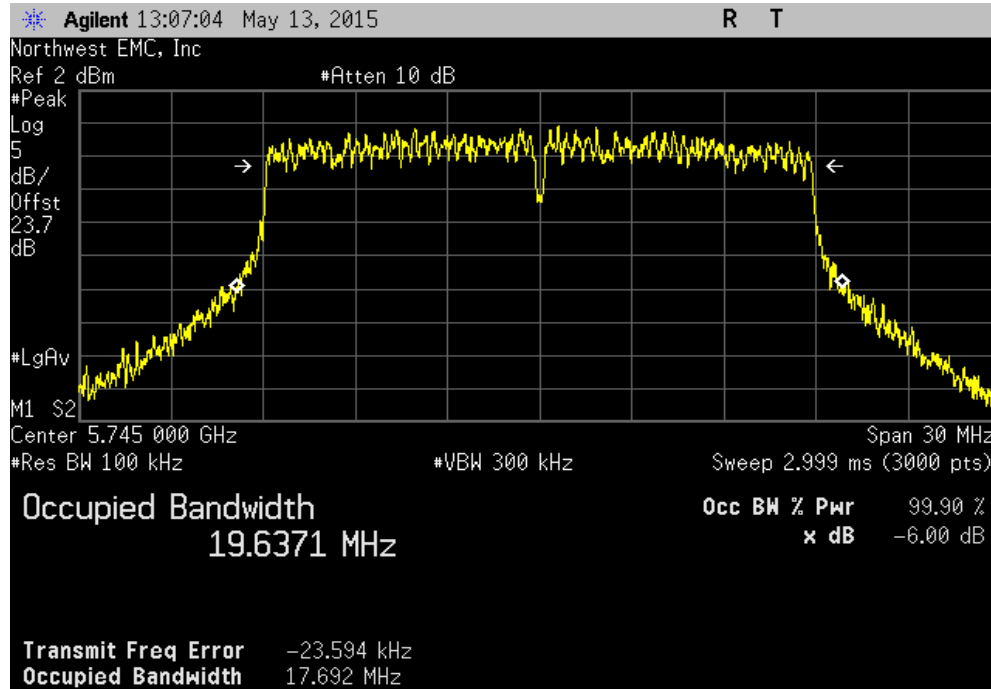


20 MHz, Chain C, 802.11(n) MCS0, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.411 MHz	500 kHz	Pass

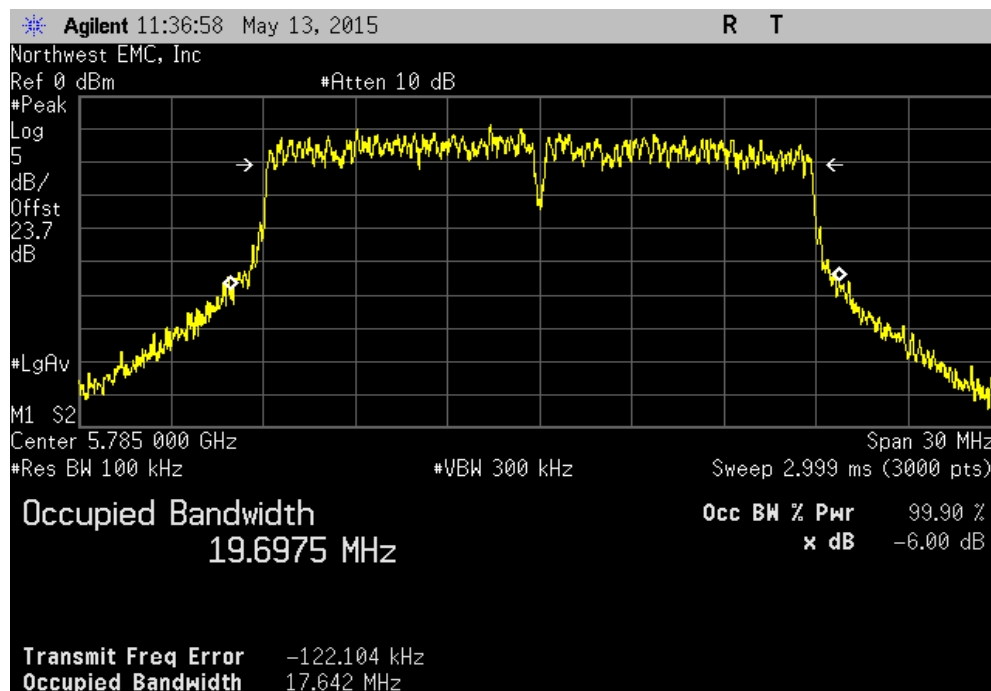


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS7, Channel 149, Low Channel						
				Value	Limit (>)	Result
				17.692 MHz	500 kHz	Pass

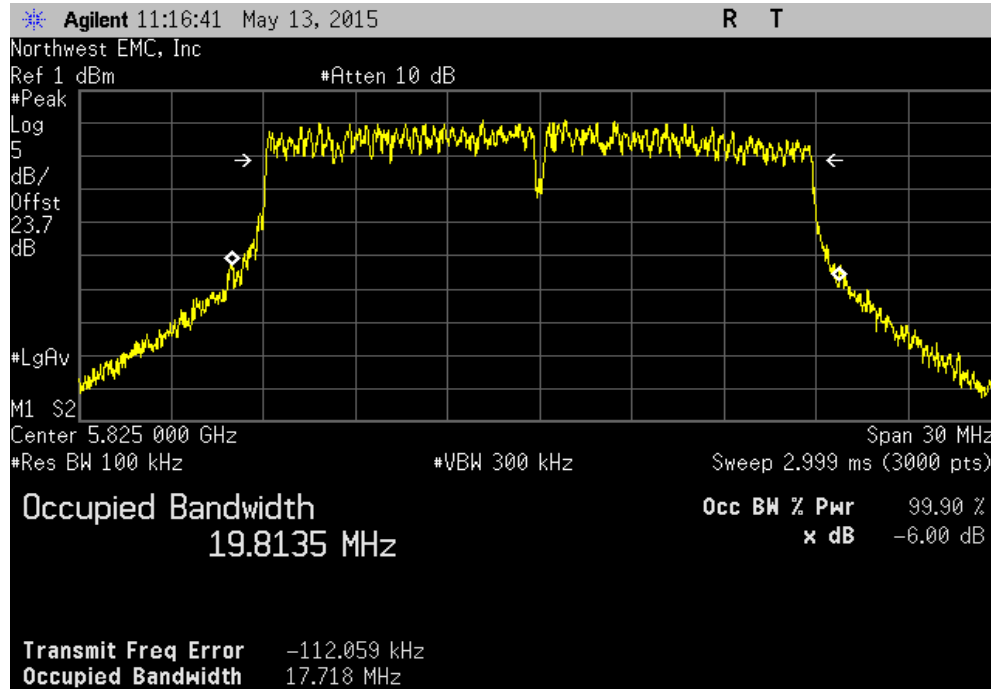


20 MHz, Chain C, 802.11(n) MCS7, Channel 157, Mid Channel						
				Value	Limit (>)	Result
				17.642 MHz	500 kHz	Pass

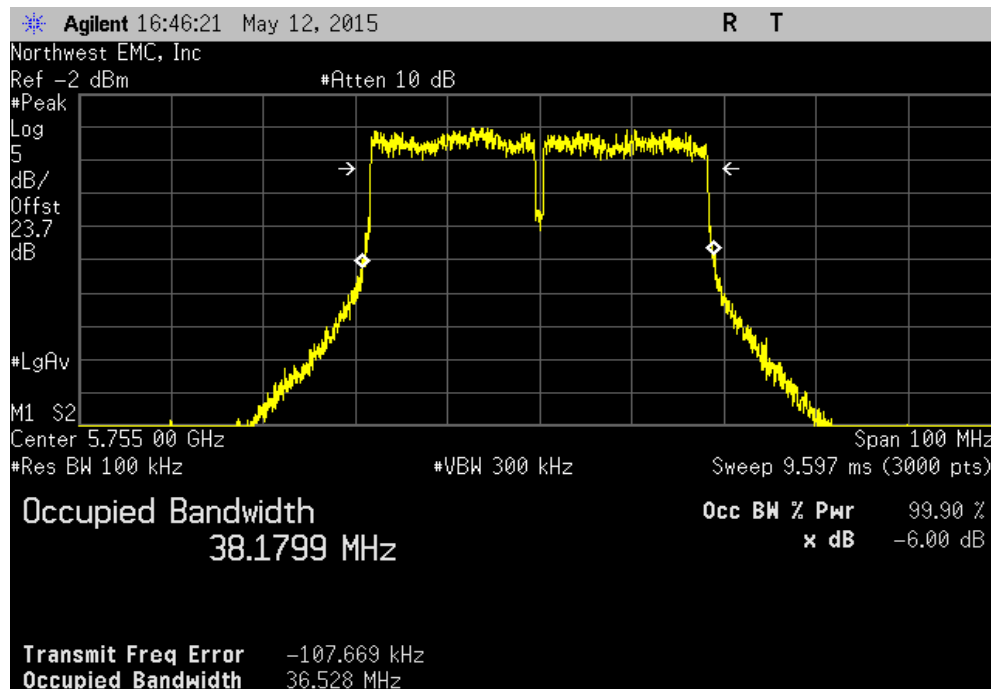


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS7, Channel 165, High Channel						
				Value	Limit (>)	Result
				17.718 MHz	500 kHz	Pass

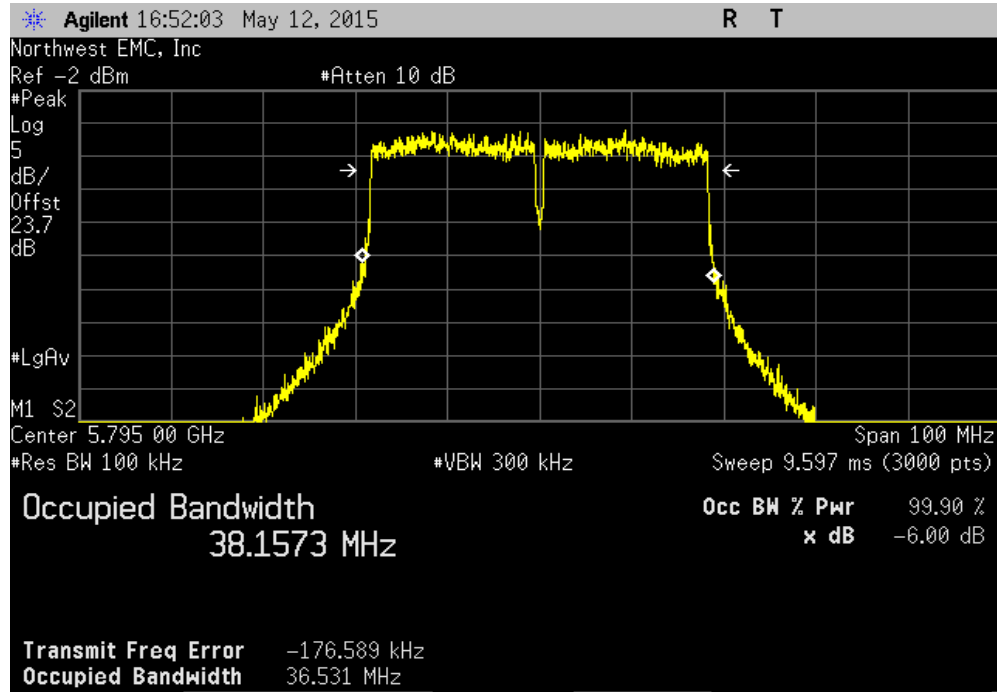


40 MHz, Chain A, 802.11(n) MCS0, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.528 MHz	500 kHz	Pass

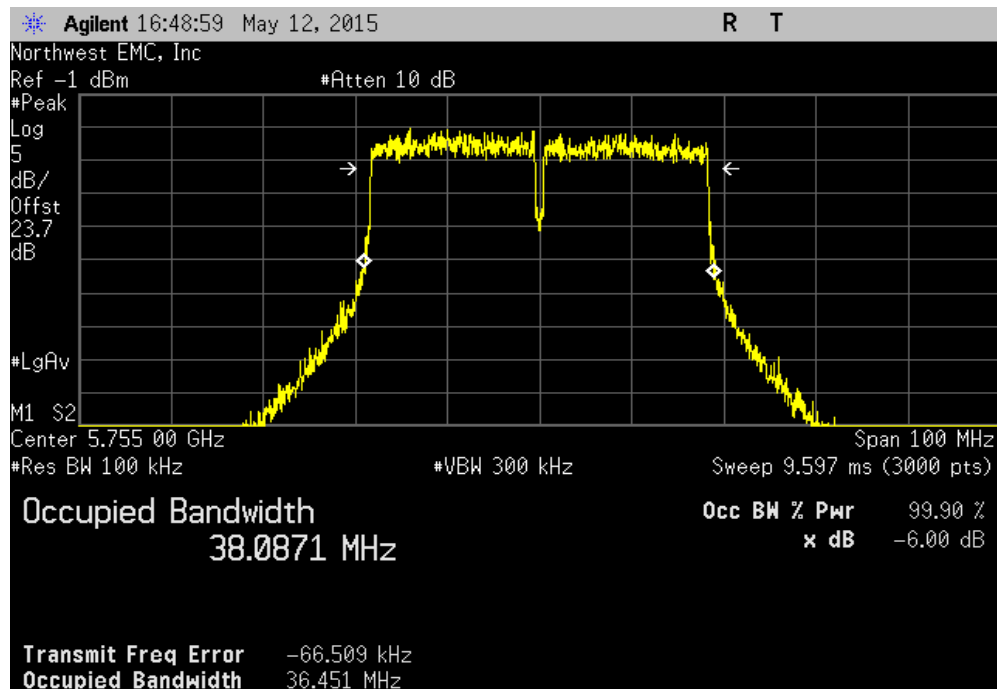


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

40 MHz, Chain A, 802.11(n) MCS0, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.531 MHz	500 kHz	Pass

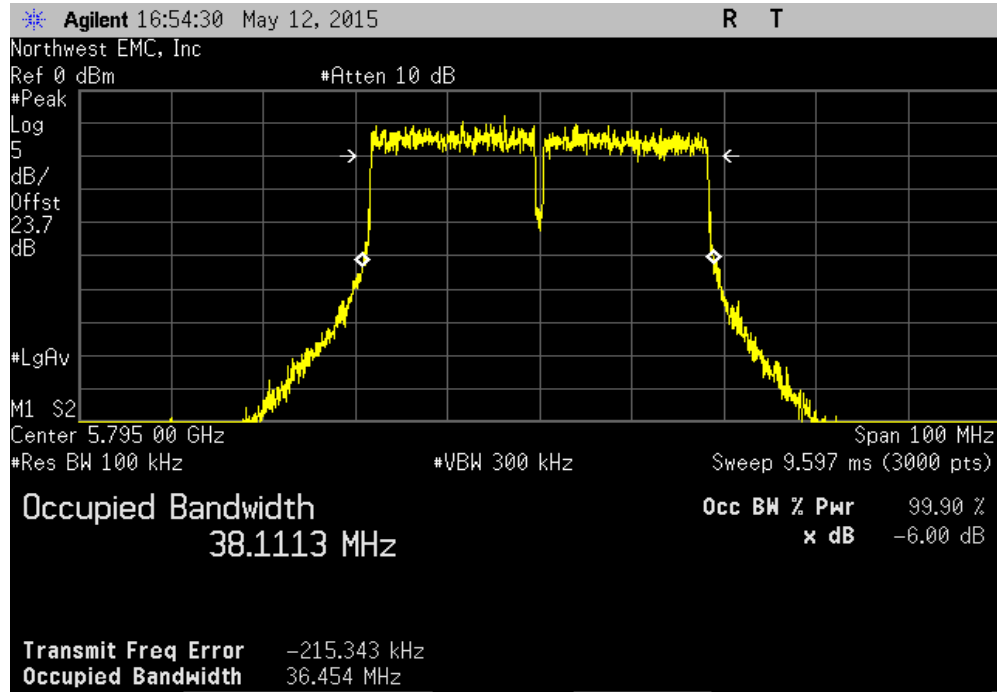


40 MHz, Chain A, 802.11(n) MCS7, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.451 MHz	500 kHz	Pass

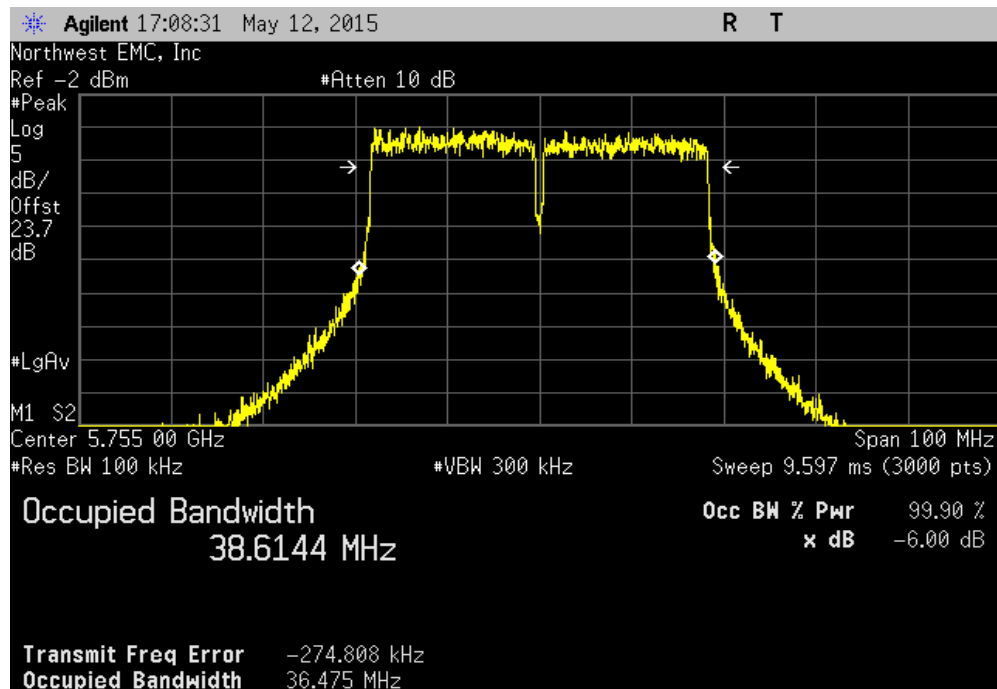


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

40 MHz, Chain A, 802.11(n) MCS7, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.454 MHz	500 kHz	Pass

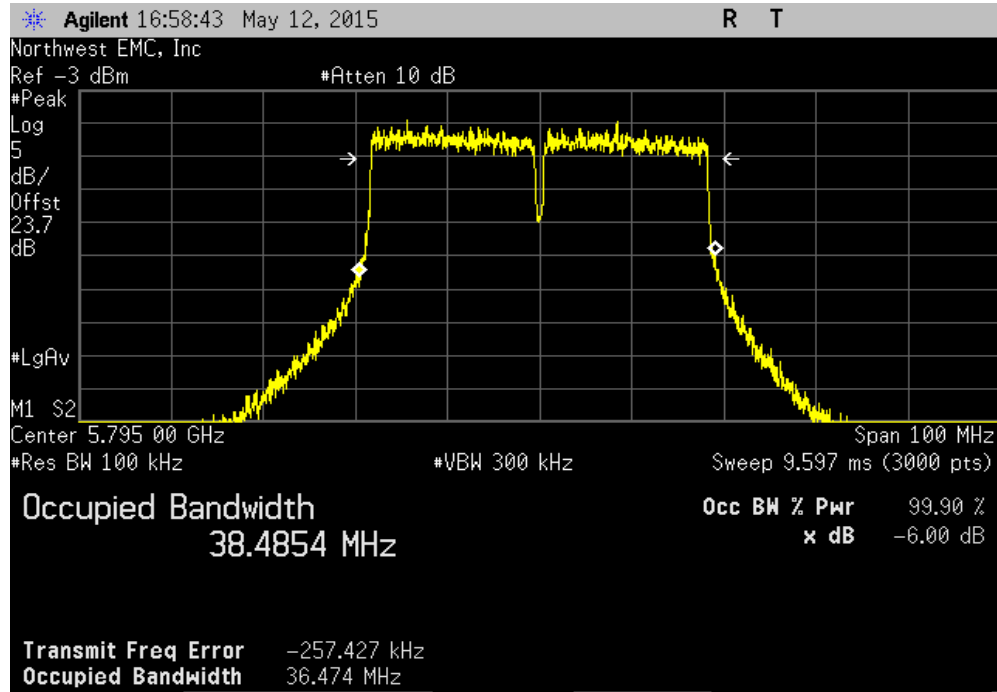


40 MHz, Chain B, 802.11(n) MCS0, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.475 MHz	500 kHz	Pass

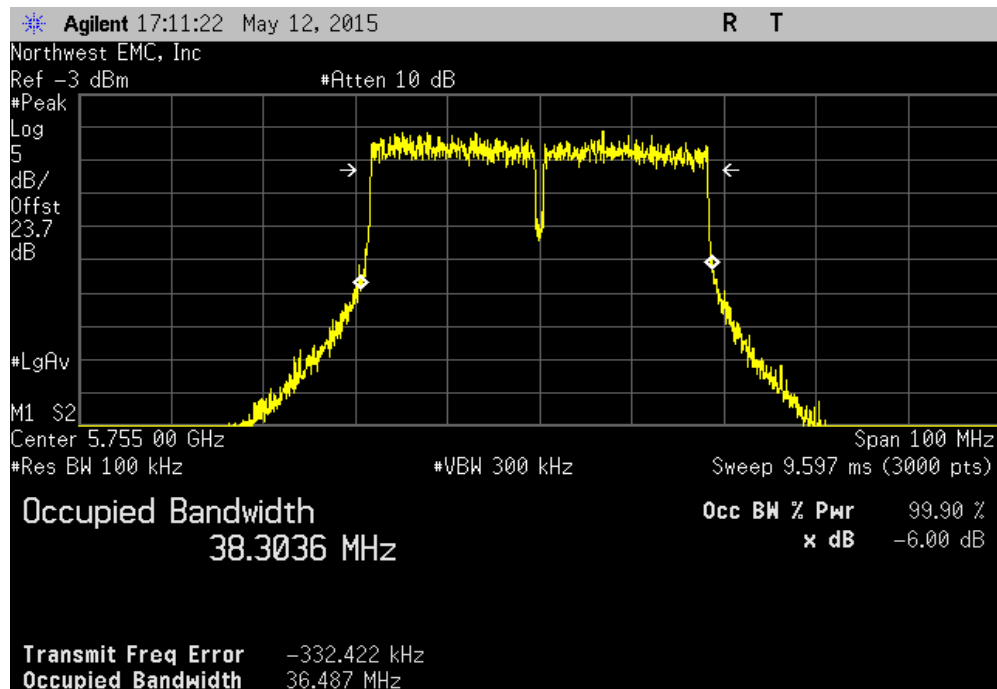


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

40 MHz, Chain B, 802.11(n) MCS0, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.474 MHz	500 kHz	Pass

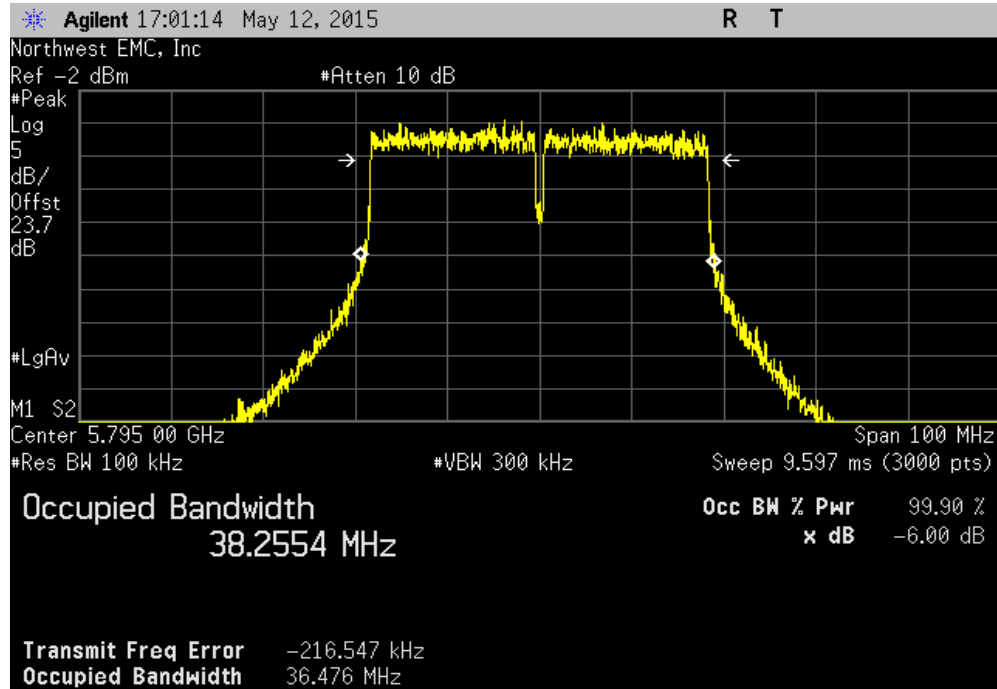


40 MHz, Chain B, 802.11(n) MCS7, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.487 MHz	500 kHz	Pass

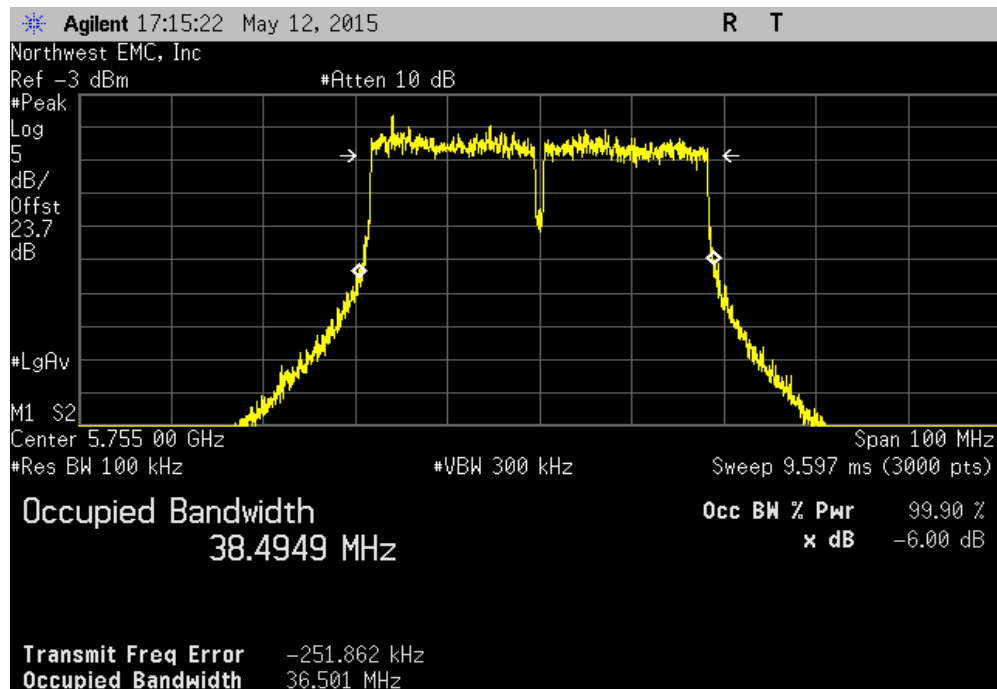


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

40 MHz, Chain B, 802.11(n) MCS7, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.476 MHz	500 kHz	Pass

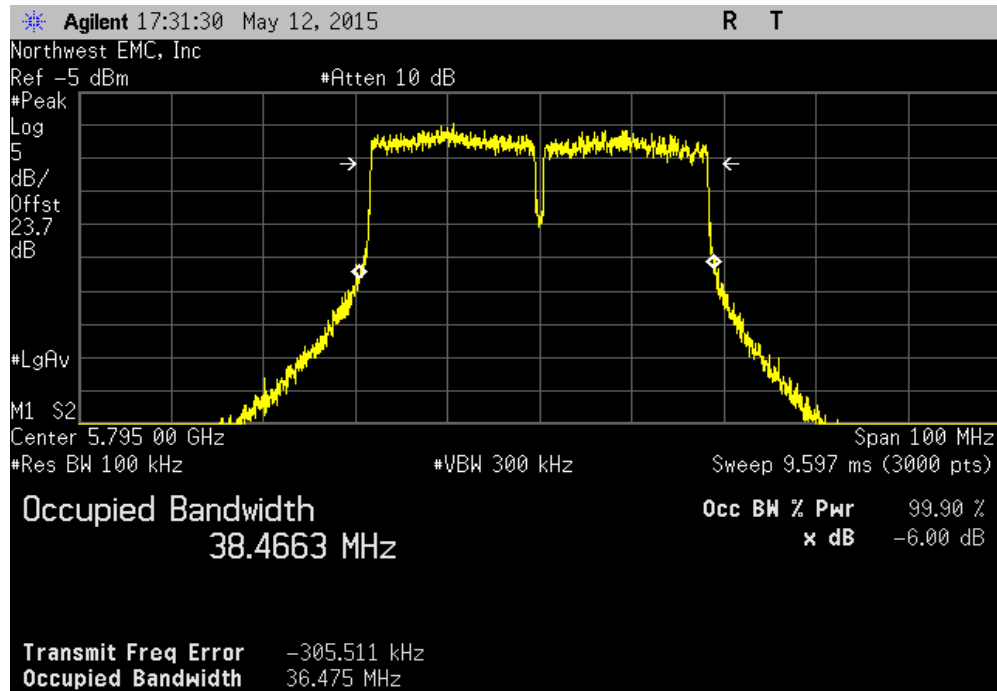


40 MHz, Chain C, 802.11(n) MCS0, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.501 MHz	500 kHz	Pass

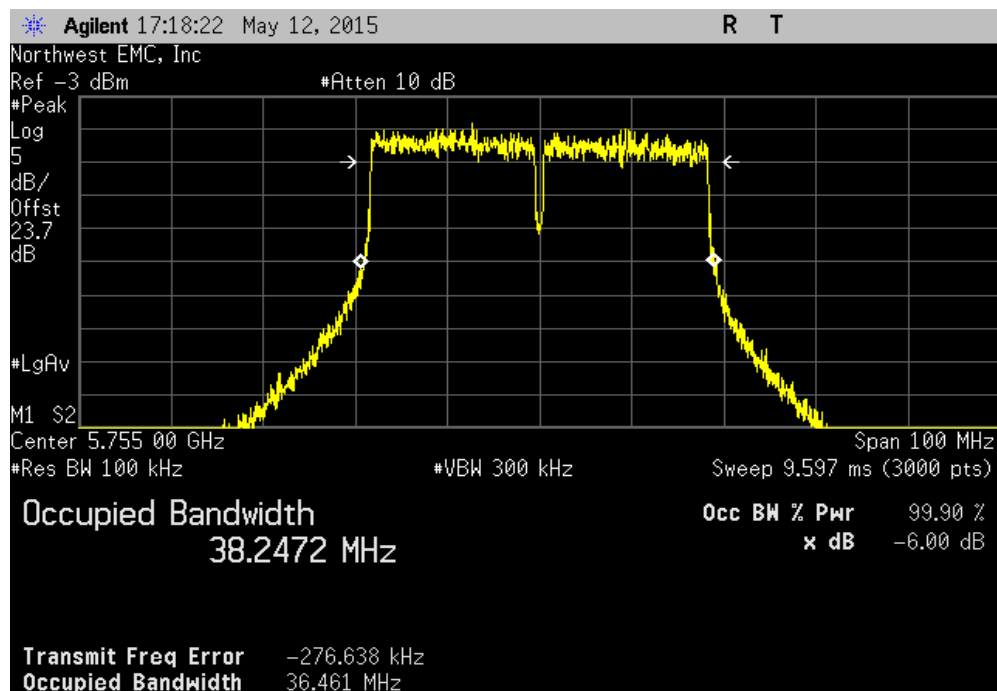


OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

40 MHz, Chain C, 802.11(n) MCS0, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.475 MHz	500 kHz	Pass

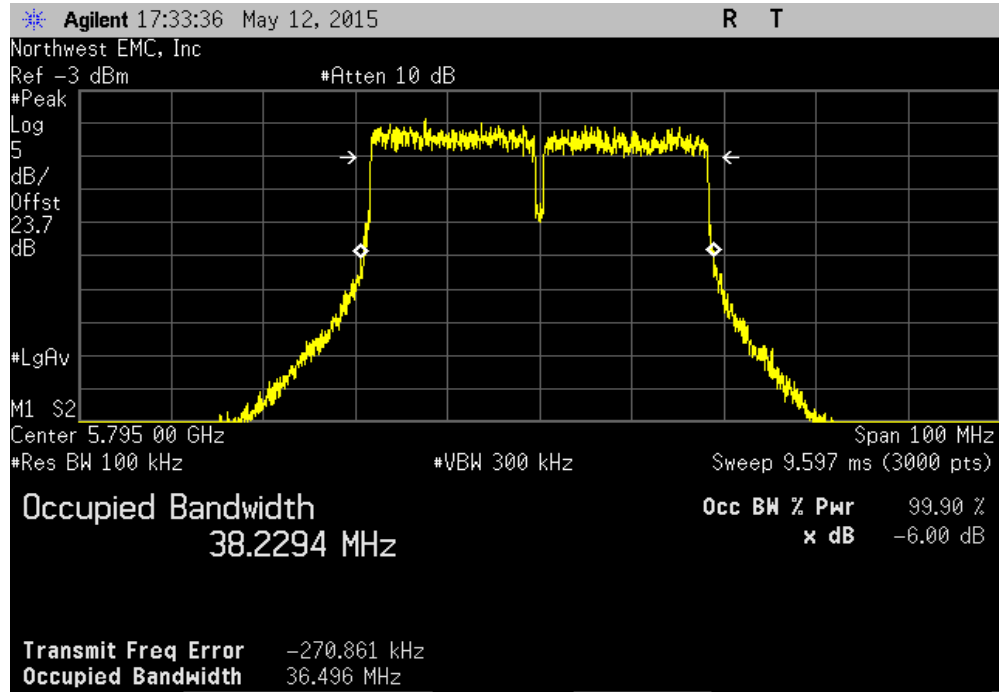


40 MHz, Chain C, 802.11(n) MCS7, Channel 149/153, Low Channel						
				Value	Limit (>)	Result
				36.461 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH - 5.8 GHz SINGLE

40 MHz, Chain C, 802.11(n) MCS7, Channel 157/161, High Channel						
				Value	Limit (>)	Result
				36.496 MHz	500 kHz	Pass



PEAK TRANSMIT POWER - 5.8GHz MULTI

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator, 20dB	Fairview Microwave	SA18E-10	TKS	4/8/2015	12
40GHz DC Block	Fairview Microwave	SD3379	AMN	4/8/2015	12
Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01 Section E was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

PEAK TRANSMIT POWER - 5.8GHz MULTI

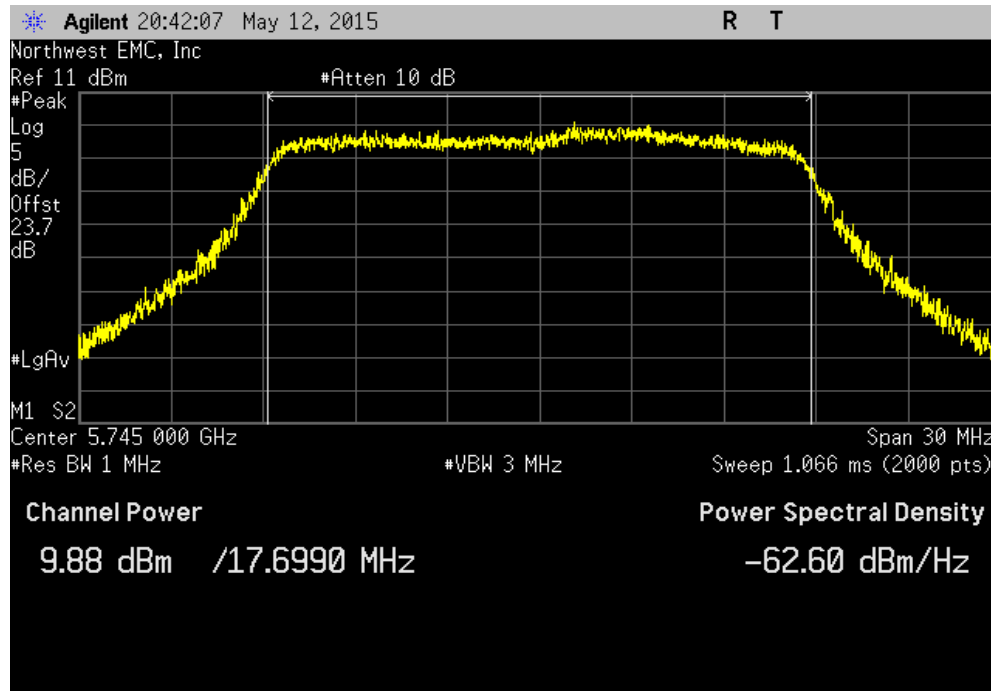


XMT 2015.01.14

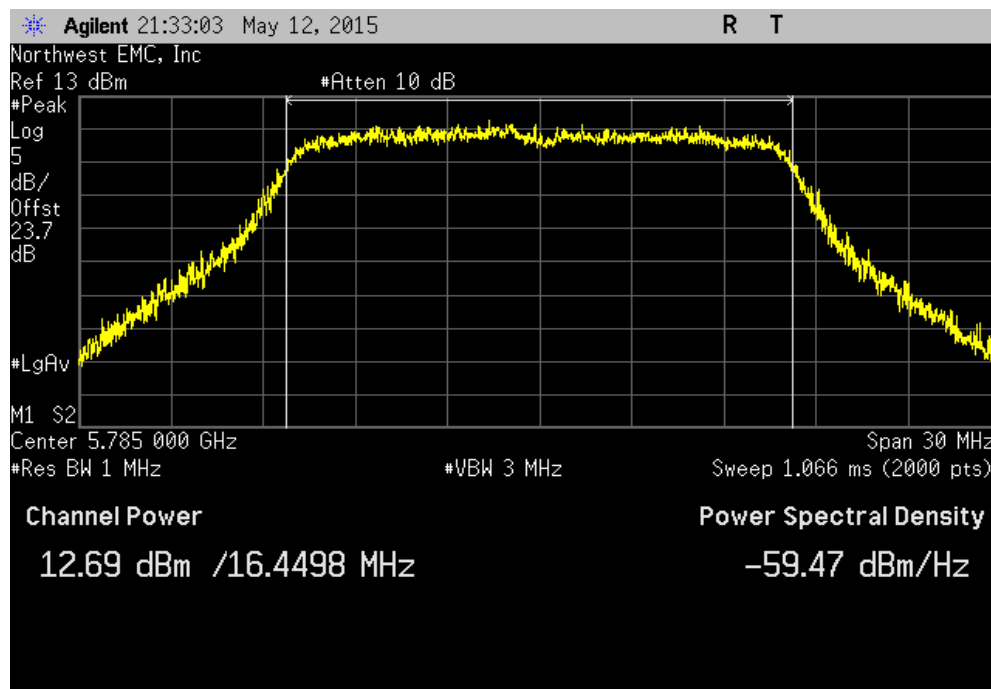
EUT: RLX2-IHNP		Work Order: PROS0221	
Serial Number: 000D8DF095CE		Date: 05/11/15	
Customer: ProSoft Technology, Inc.		Temperature: 20.5°C	
Attendees: None		Humidity: 44%	
Project: None		Barometric Pres.: 1015	
Tested by: Johnny Candelas		Power: 120V/60Hz	
Job Site: OC13			
TEST SPECIFICATIONS		Test Method	
FCC 15.407.2015		ANSI C63.10:2009	
COMMENTS			
Offset 23.67dB (DC Block+20dB Attenuator+Coax Cable) for 5.8GHz			
Power Setting - Max			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Value	Limit (-) Result
20 MHz			
Chain A			
802.11(n) MCS8			
Channel 149, Low Channel		9.879 dBm	30 dBm Pass
Channel 157, Mid Channel		12.69 dBm	30 dBm Pass
Channel 165, High Channel		10.216 dBm	30 dBm Pass
802.11(n) MCS15			
Channel 149, Low Channel		13.203 dBm	30 dBm Pass
Channel 157, Mid Channel		11.177 dBm	30 dBm Pass
Channel 165, High Channel		12.006 dBm	30 dBm Pass
Chain B			
802.11(n) MCS8			
Channel 149, Low Channel		10.355 dBm	30 dBm Pass
Channel 157, Mid Channel		9.533 dBm	30 dBm Pass
Channel 165, High Channel		11.681 dBm	30 dBm Pass
802.11(n) MCS15			
Channel 149, Low Channel		10.266 dBm	30 dBm Pass
Channel 157, Mid Channel		9.373 dBm	30 dBm Pass
Channel 165, High Channel		11.721 dBm	30 dBm Pass
Chain C			
802.11(n) MCS8			
Channel 149, Low Channel		10.143 dBm	30 dBm Pass
Channel 157, Mid Channel		8.861 dBm	30 dBm Pass
Channel 165, High Channel		9.598 dBm	30 dBm Pass
802.11(n) MCS15			
Channel 149, Low Channel		10.082 dBm	30 dBm Pass
Channel 157, Mid Channel		8.984 dBm	30 dBm Pass
Channel 165, High Channel		10.425 dBm	30 dBm Pass
Power Summing, 20 MHz			
Chain AB			
802.11(n) MCS8		Chain A (dBm) (mw)	Chain B (dBm) (mw) Summed Power (dBm) Results
Channel 149, Low Channel		9.879 9.725	10.355 10.852 13.134 Pass
Channel 157, Mid Channel		12.690 18.578	9.533 8.980 14.403 Pass
Channel 165, High Channel		10.216 10.510	11.681 14.727 14.020 Pass
802.11(n) MCS15		13.203 20.907	10.266 10.632 14.988 Pass
Channel 157, Mid Channel		11.177 13.113	9.373 8.656 13.378 Pass
Channel 165, High Channel		12.006 15.871	11.721 14.863 14.876 Pass
Chain AC			
802.11(n) MCS8		Chain A (dBm) (mw)	Chain C (dBm) (mw) Summed Power (dBm) Results
Channel 149, Low Channel		9.879 9.725	10.143 10.335 13.023 Pass
Channel 157, Mid Channel		12.690 18.578	8.861 7.693 14.195 Pass
Channel 165, High Channel		10.216 10.510	9.598 9.116 12.928 Pass
802.11(n) MCS15		13.203 20.907	10.082 10.191 14.927 Pass
Channel 157, Mid Channel		11.177 13.113	8.984 7.914 13.228 Pass
Channel 165, High Channel		12.006 15.871	10.425 11.028 14.297 Pass
Chain BC			
802.11(n) MCS8		Chain B (dBm) (mw)	Chain C (dBm) (mw) Summed Power (dBm) Results
Channel 149, Low Channel		10.355 10.852	10.143 10.335 13.261 Pass
Channel 157, Mid Channel		9.533 8.980	8.861 7.693 12.220 Pass
Channel 165, High Channel		11.681 14.727	9.598 9.116 13.774 Pass
802.11(n) MCS15		10.266 10.632	10.082 10.191 13.185 Pass
Channel 157, Mid Channel		9.373 8.656	8.984 7.914 12.193 Pass
Channel 165, High Channel		11.721 14.863	10.425 11.028 14.131 Pass
40 MHz			
Chain A			
802.11(n) MCS8			
Channel 149/153, Low Channel		10.556 dBm	30 dBm Pass
Channel 157/161, High Channel		9.259 dBm	30 dBm Pass
802.11(n) MCS15			
Channel 149/153, Low Channel		10.571 dBm	30 dBm Pass
Channel 157/161, High Channel		12.048 dBm	30 dBm Pass
Chain B			
802.11(n) MCS8			
Channel 149/153, Low Channel		10.542 dBm	30 dBm Pass
Channel 157/161, High Channel		9.222 dBm	30 dBm Pass
802.11(n) MCS15			
Channel 149/153, Low Channel		8.057 dBm	30 dBm Pass
Channel 157/161, High Channel		9.833 dBm	30 dBm Pass
Chain C			
802.11(n) MCS8			
Channel 149/153, Low Channel		9.05 dBm	30 dBm Pass
Channel 157/161, High Channel		7.127 dBm	30 dBm Pass
802.11(n) MCS15			
Channel 149/153, Low Channel		9.036 dBm	30 dBm Pass
Channel 157/161, High Channel		9.007 dBm	30 dBm Pass
Power Summing, 40 MHz			
Chain AB			
802.11(n) MCS8		Chain A (dBm) (mw)	Chain B (dBm) (mw) Summed Power (dBm) Results
Channel 149/153, Low Channel		10.556 11.366	10.542 11.329 13.559 Pass
Channel 157/161, High Channel		9.259 8.431	9.220 8.356 12.250 Pass
802.11(n) MCS15		10.571 11.405	8.057 6.393 12.504 Pass
Channel 157/161, High Channel		12.048 16.025	9.833 9.623 14.091 Pass
Chain AC			
802.11(n) MCS8		Chain A (dBm) (mw)	Chain C (dBm) (mw) Summed Power (dBm) Results
Channel 149/153, Low Channel		10.556 11.366	9.050 8.035 12.878 Pass
Channel 157/161, High Channel		9.259 8.431	7.127 5.161 11.333 Pass
802.11(n) MCS15		10.571 11.405	9.036 8.009 12.881 Pass
Channel 157/161, High Channel		12.048 16.025	9.007 7.956 13.799 Pass
Chain BC			
802.11(n) MCS8		Chain B (dBm) (mw)	Chain C (dBm) (mw) Summed Power (dBm) Results
Channel 149/153, Low Channel		10.542 11.329	9.050 8.035 12.870 Pass
Channel 157/161, High Channel		9.220 8.356	7.127 5.161 11.309 Pass
802.11(n) MCS15		8.057 6.393	9.036 8.009 11.584 Pass
Channel 157/161, High Channel		9.833 9.623	9.007 7.956 12.450 Pass

PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain A, 802.11(n) MCS8, Channel 149, Low Channel						
				Value	Limit (<)	Result
				9.879 dBm	30 dBm	Pass

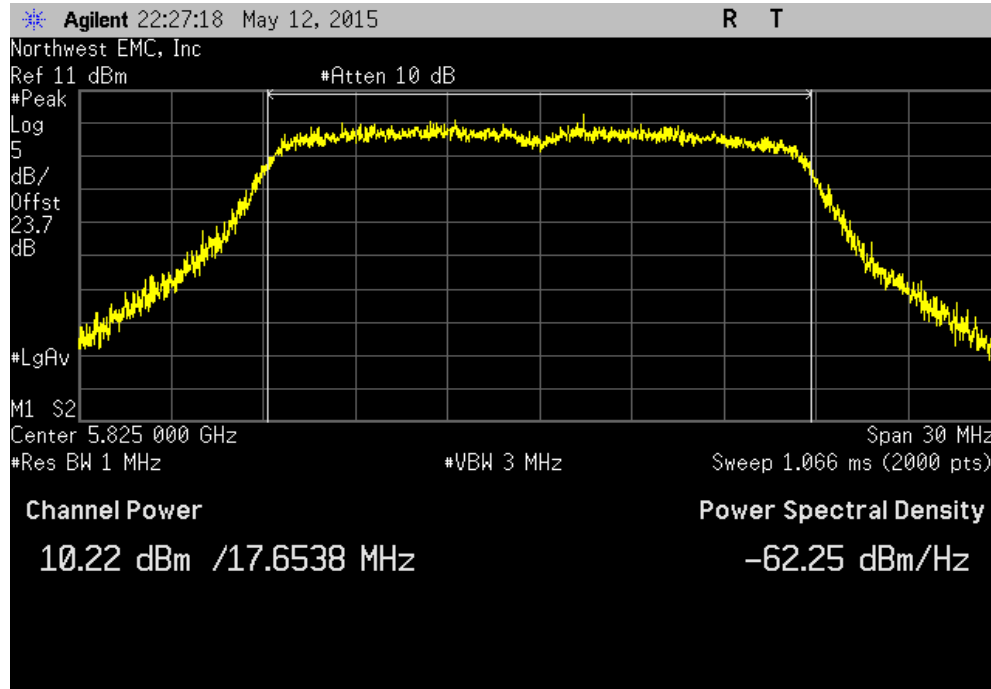


20 MHz, Chain A, 802.11(n) MCS8, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				12.69 dBm	30 dBm	Pass

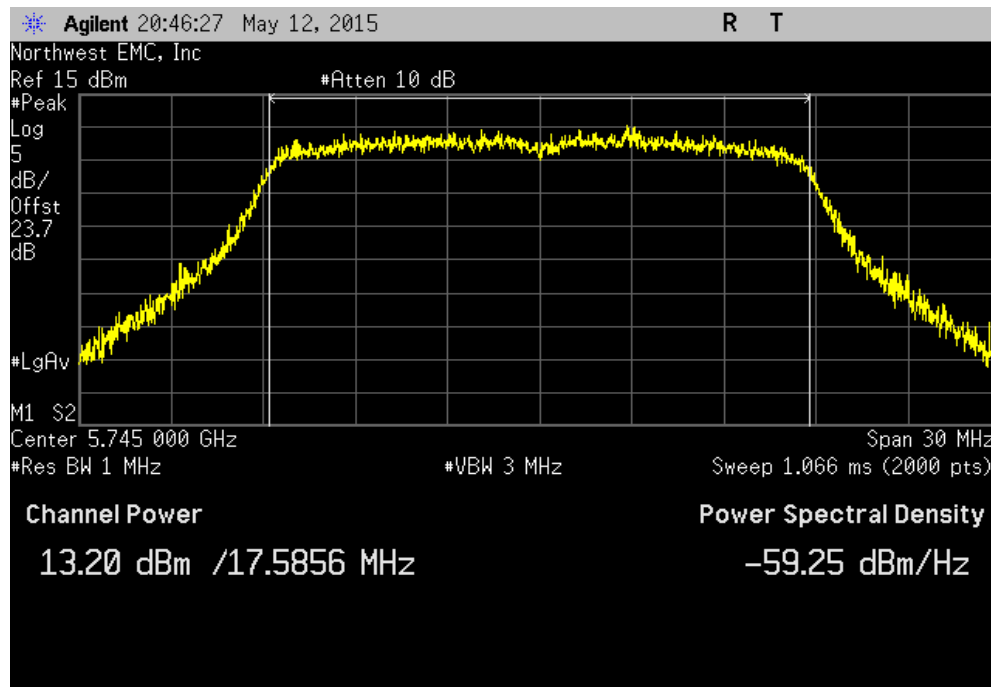


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain A, 802.11(n) MCS8, Channel 165, High Channel						
				Value	Limit (<)	Result
				10.216 dBm	30 dBm	Pass

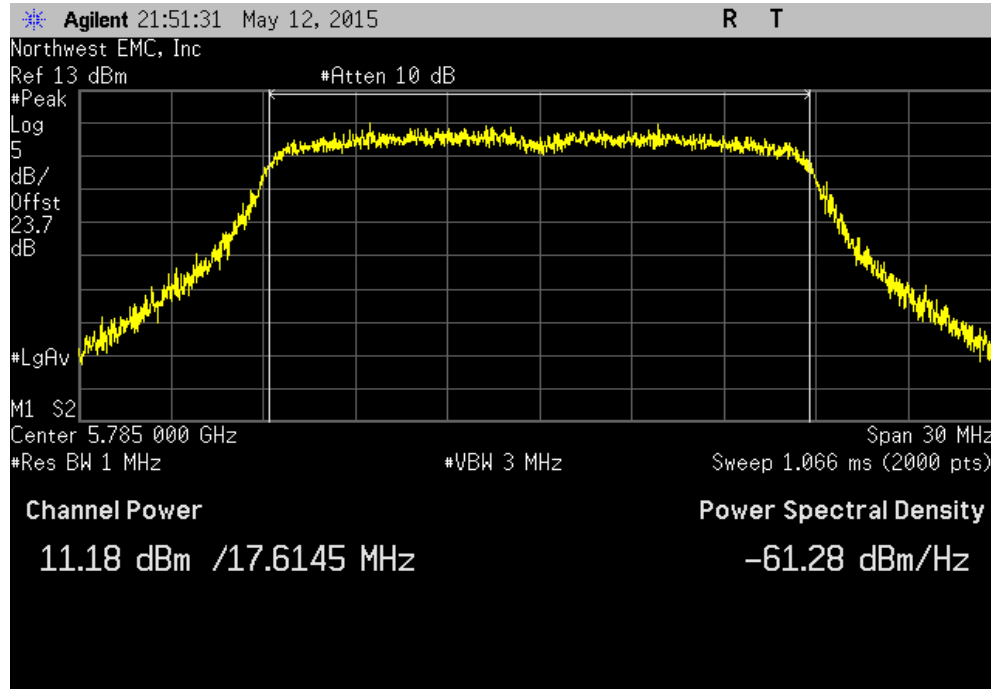


20 MHz, Chain A, 802.11(n) MCS15, Channel 149, Low Channel						
				Value	Limit (<)	Result
				13.203 dBm	30 dBm	Pass

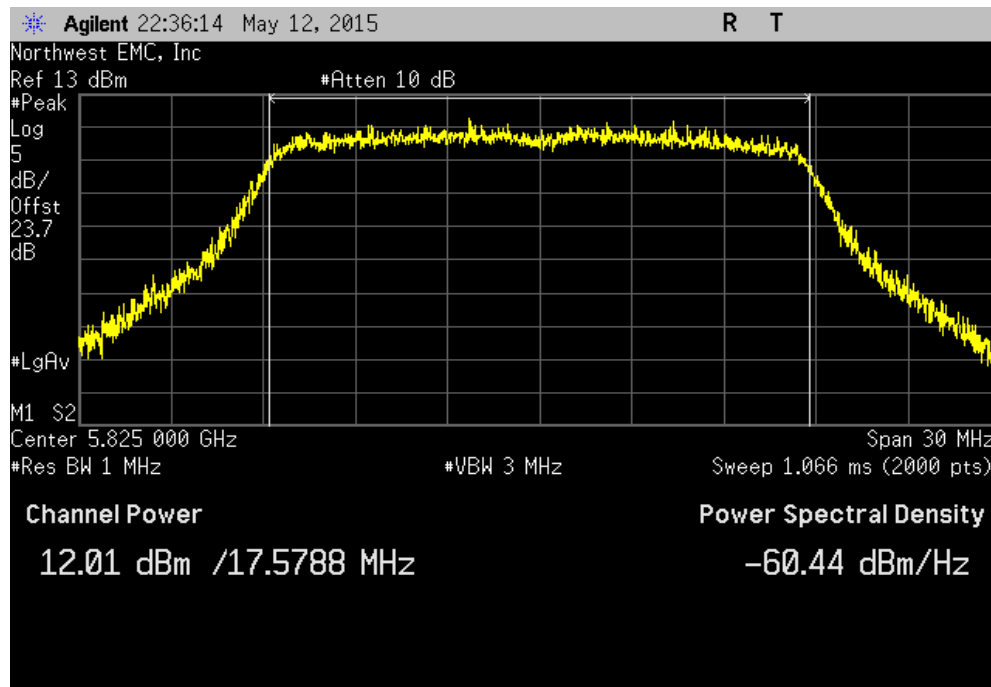


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain A, 802.11(n) MCS15, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				11.177 dBm	30 dBm	Pass

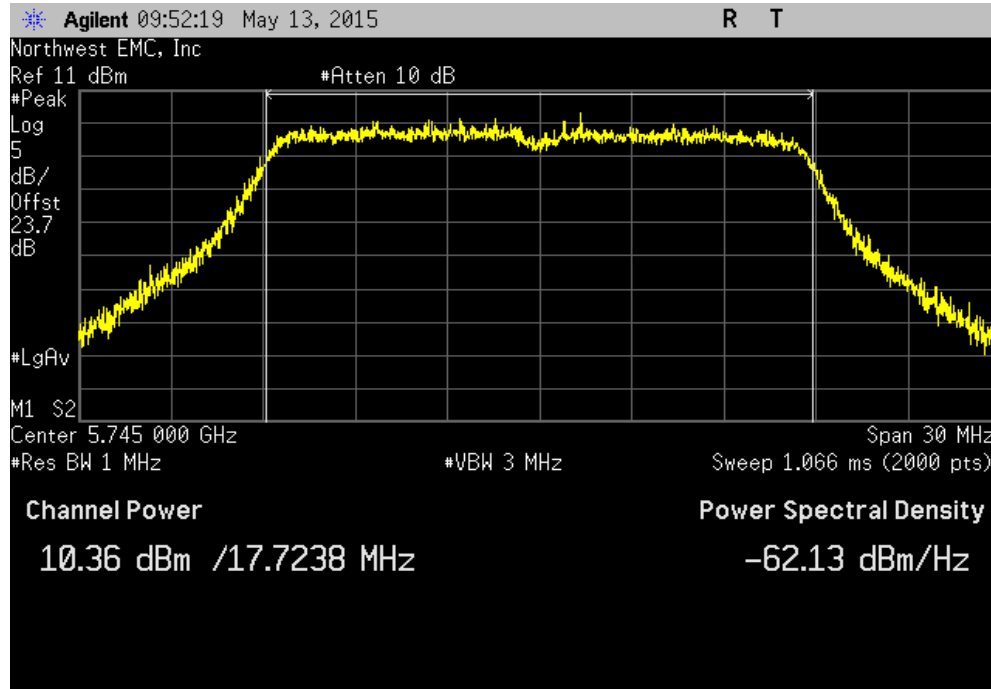


20 MHz, Chain A, 802.11(n) MCS15, Channel 165, High Channel						
				Value	Limit (<)	Result
				12.006 dBm	30 dBm	Pass

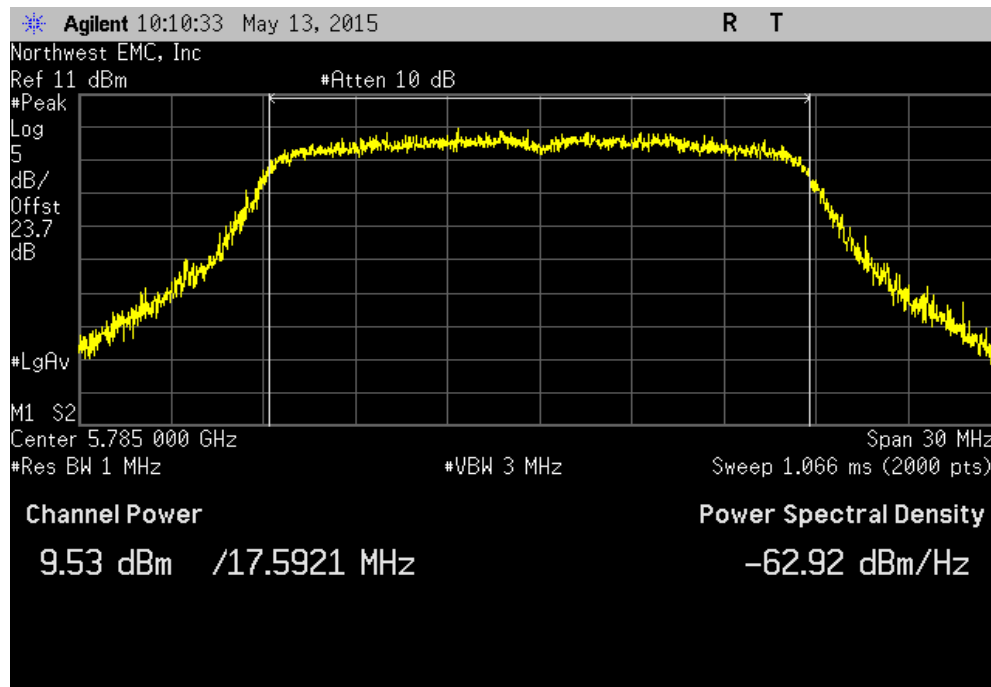


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain B, 802.11(n) MCS8, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.355 dBm	30 dBm	Pass

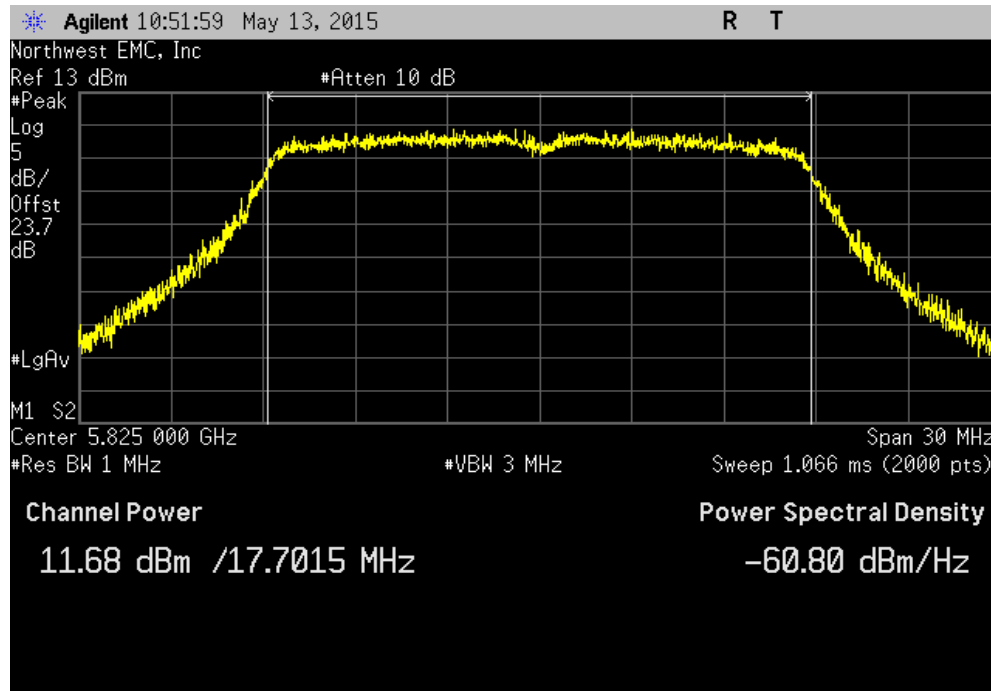


20 MHz, Chain B, 802.11(n) MCS8, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				9.533 dBm	30 dBm	Pass

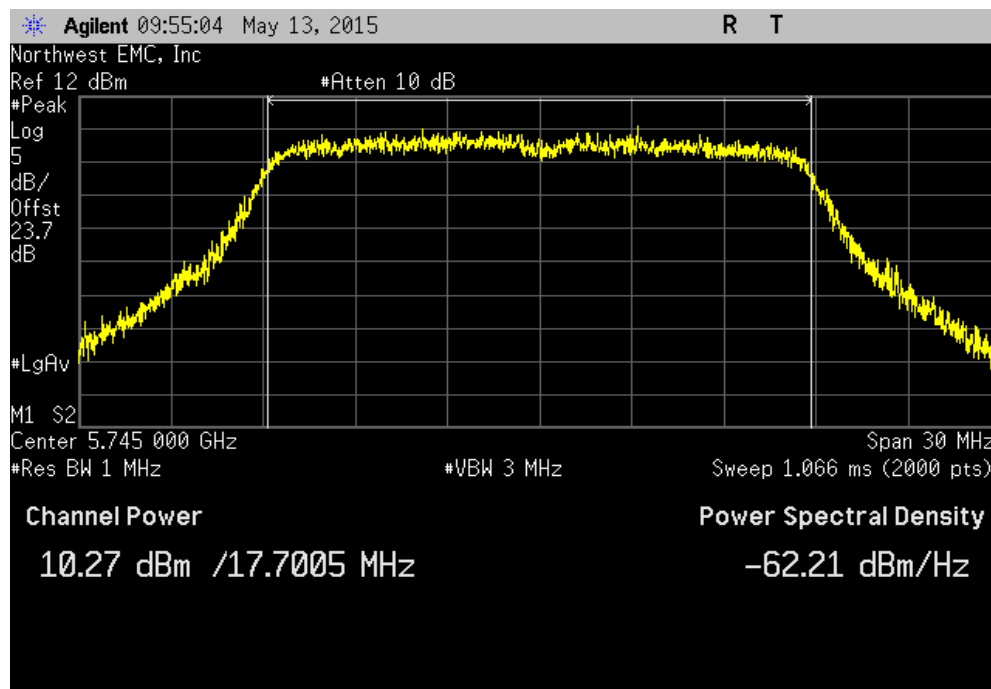


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain B, 802.11(n) MCS8, Channel 165, High Channel						
				Value	Limit (<)	Result
				11.681 dBm	30 dBm	Pass

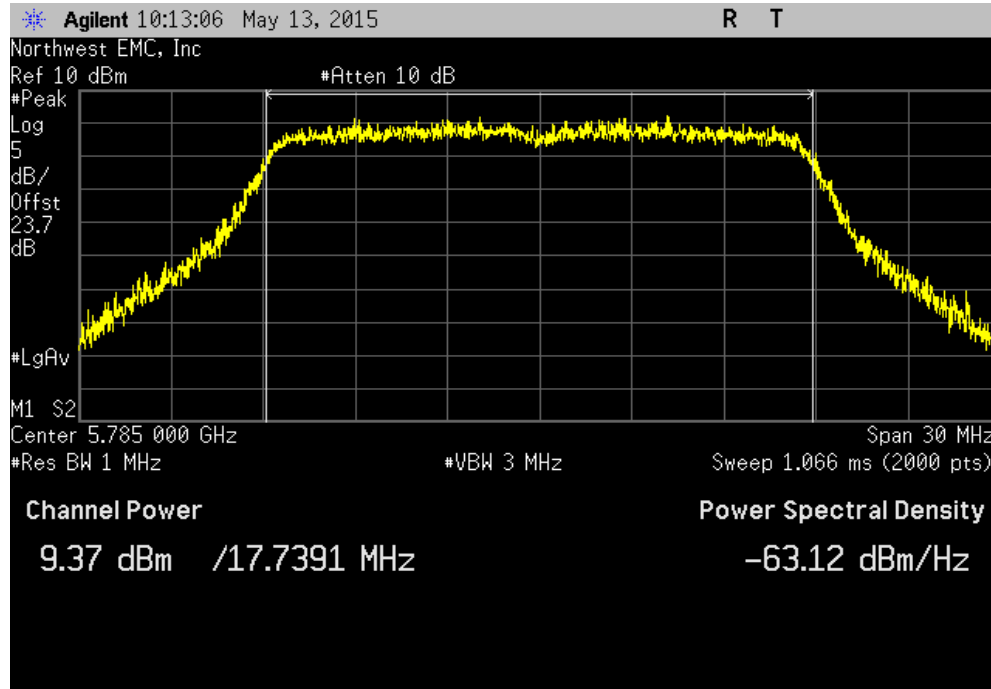


20 MHz, Chain B, 802.11(n) MCS15, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.266 dBm	30 dBm	Pass

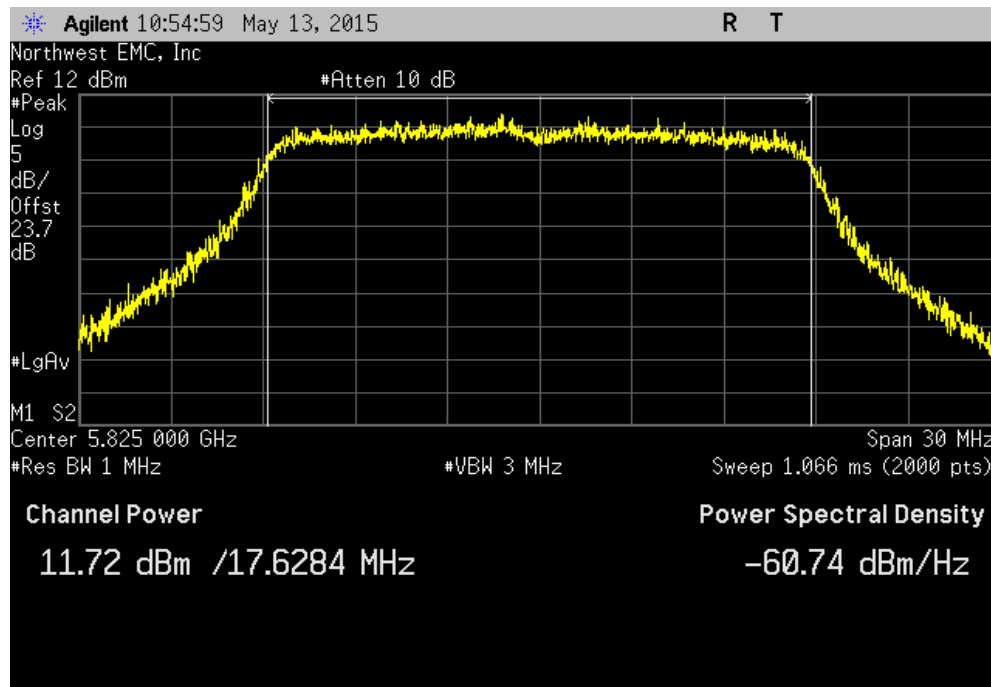


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain B, 802.11(n) MCS15, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				9.373 dBm	30 dBm	Pass

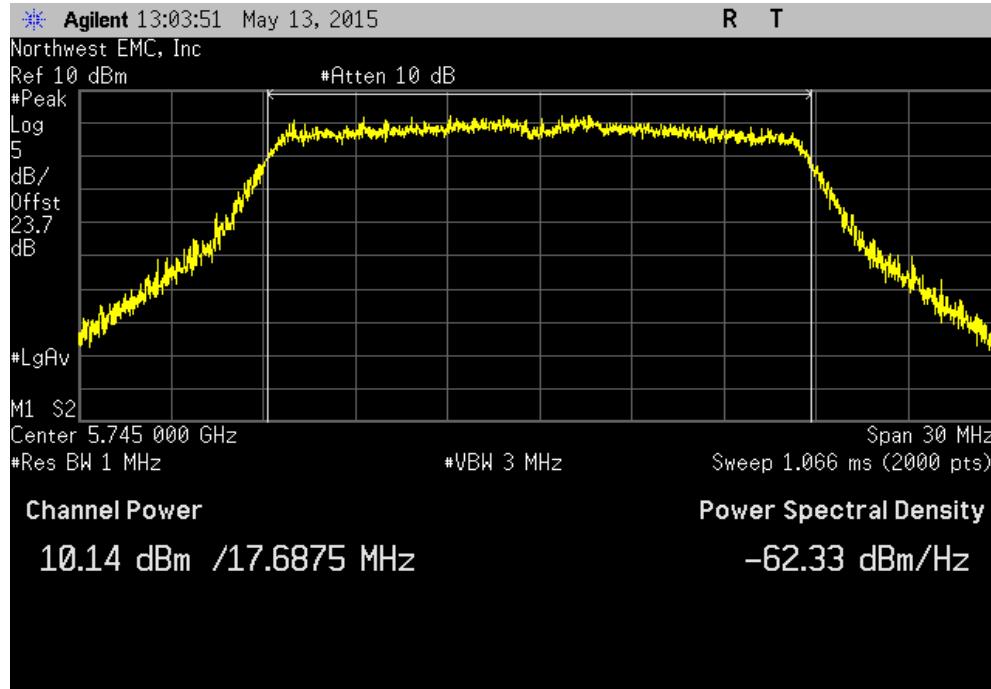


20 MHz, Chain B, 802.11(n) MCS15, Channel 165, High Channel						
				Value	Limit (<)	Result
				11.721 dBm	30 dBm	Pass

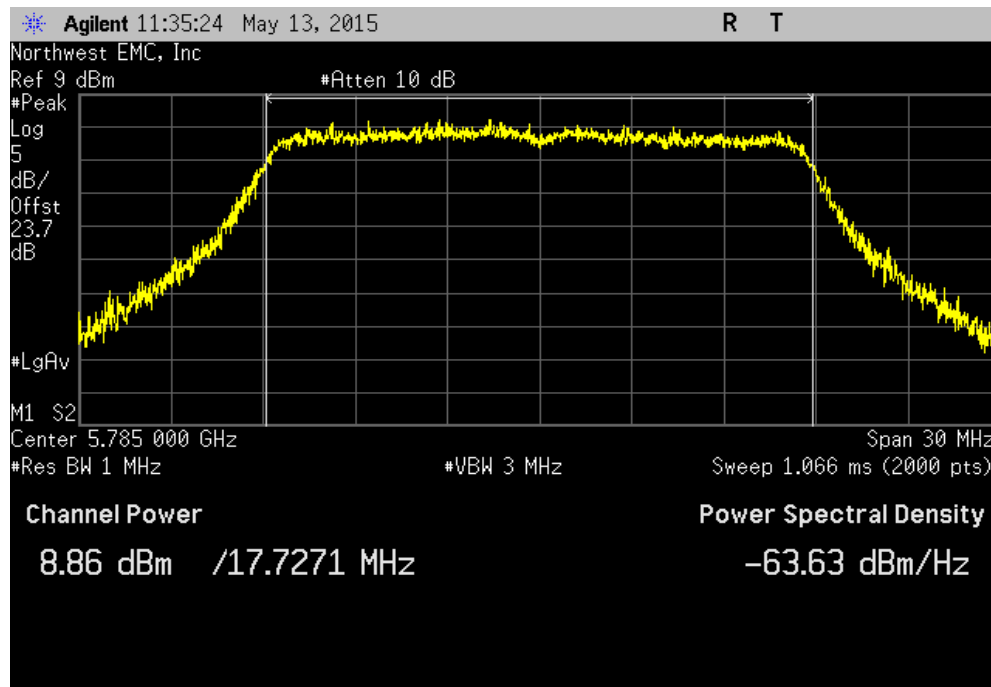


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain C, 802.11(n) MCS8, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.143 dBm	30 dBm	Pass

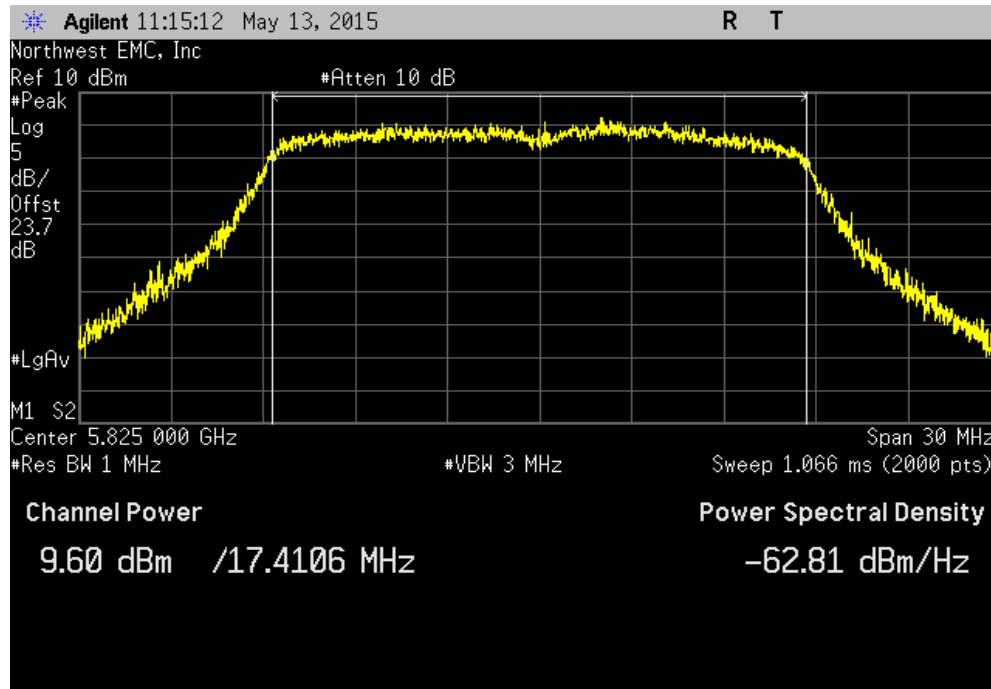


20 MHz, Chain C, 802.11(n) MCS8, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				8.861 dBm	30 dBm	Pass

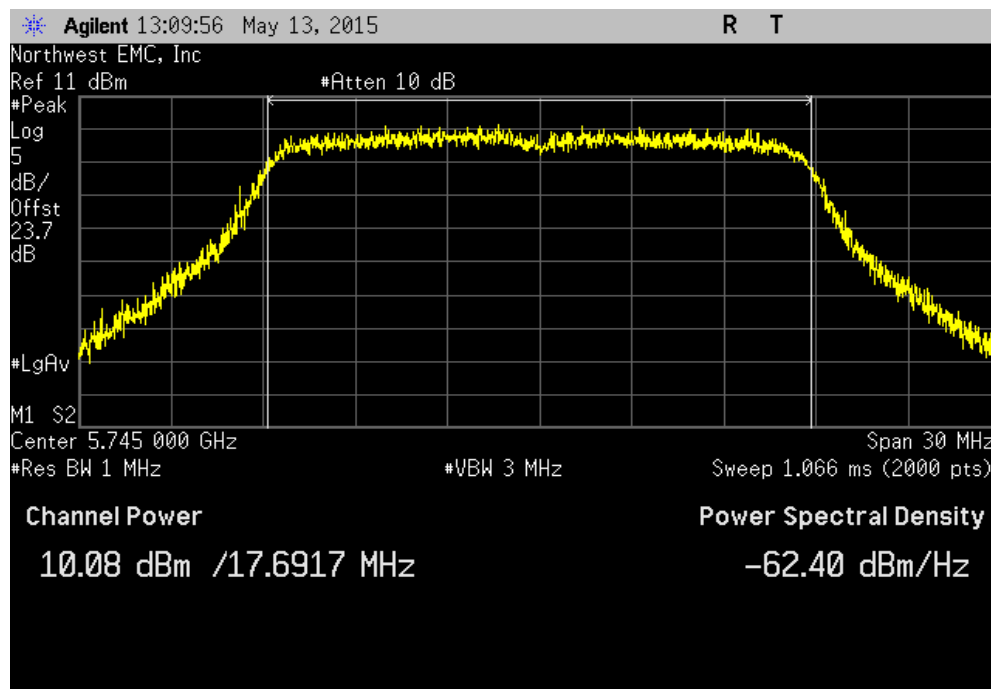


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain C, 802.11(n) MCS8, Channel 165, High Channel						
				Value	Limit (<)	Result
				9.598 dBm	30 dBm	Pass

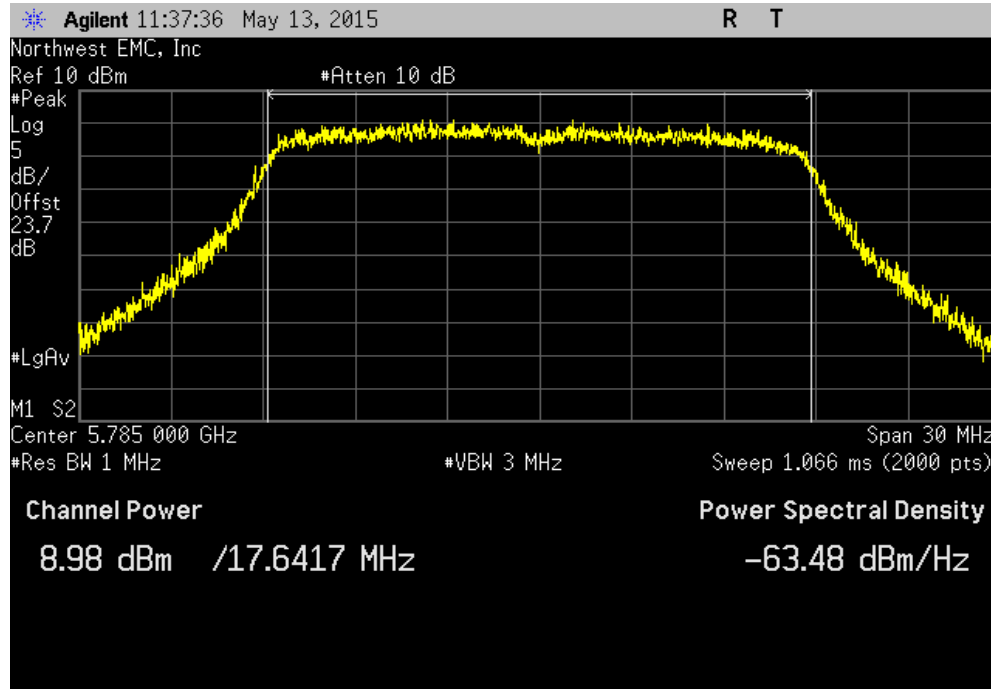


20 MHz, Chain C, 802.11(n) MCS15, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.082 dBm	30 dBm	Pass

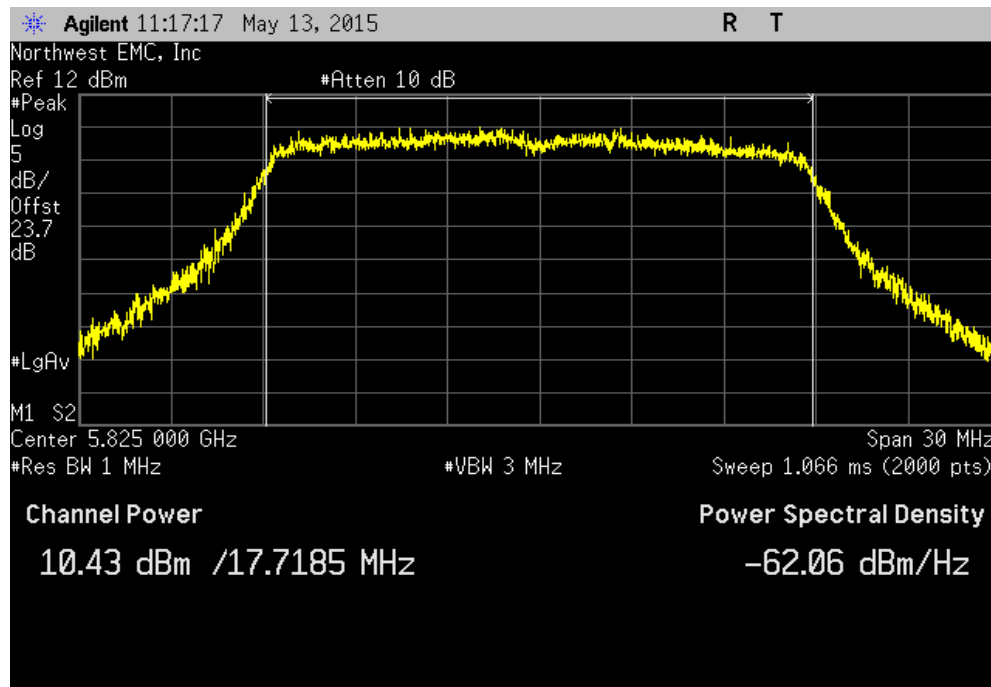


PEAK TRANSMIT POWER - 5.8GHz MULTI

20 MHz, Chain C, 802.11(n) MCS15, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				8.984 dBm	30 dBm	Pass

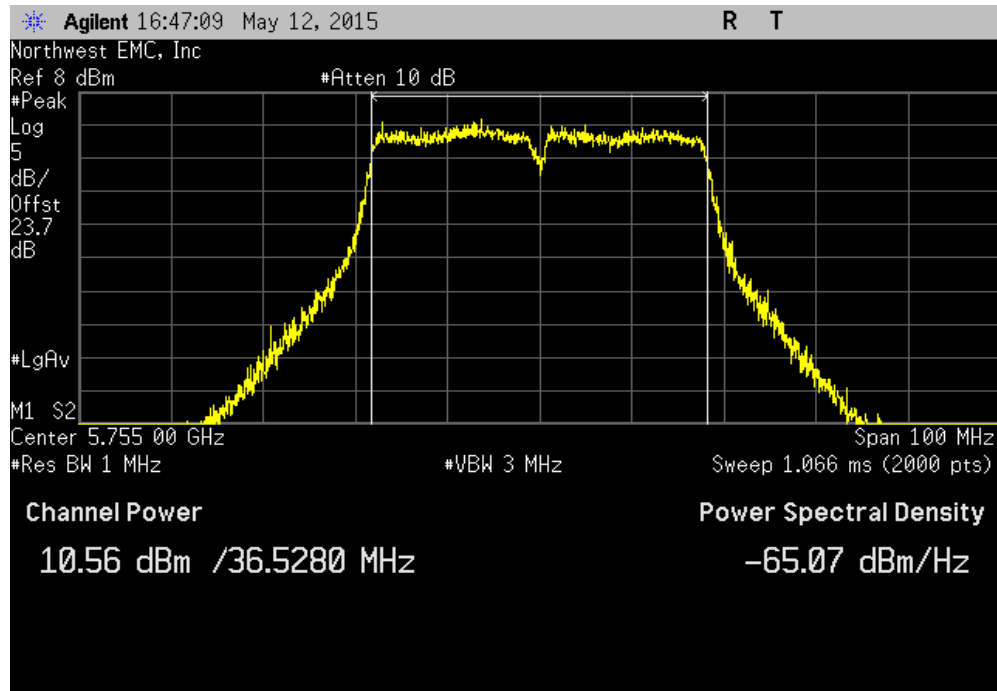


20 MHz, Chain C, 802.11(n) MCS15, Channel 165, High Channel						
				Value	Limit (<)	Result
				10.425 dBm	30 dBm	Pass

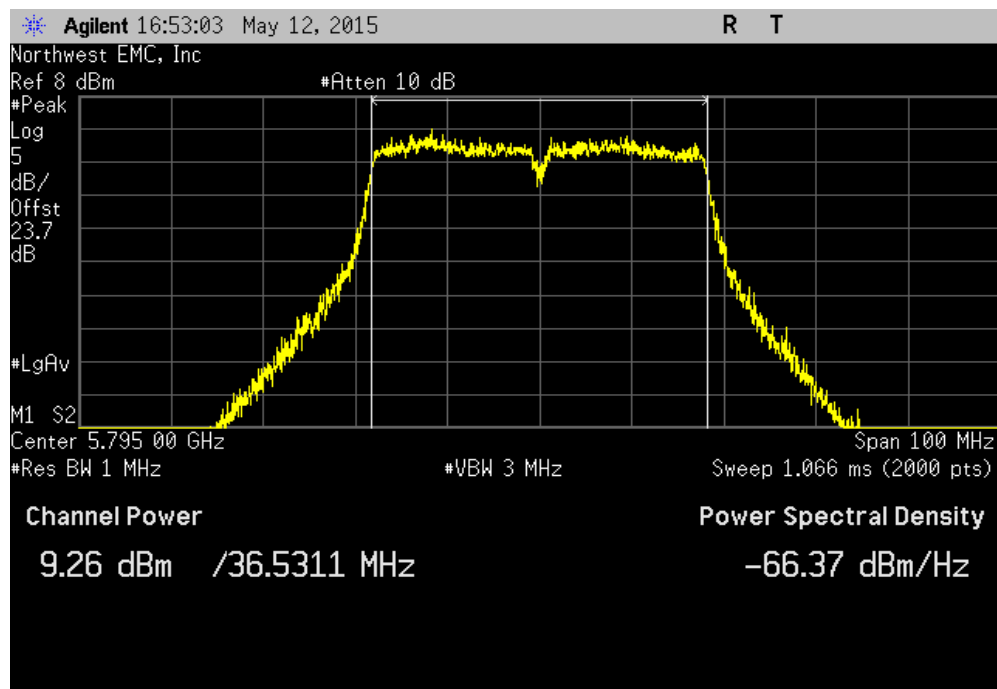


PEAK TRANSMIT POWER - 5.8GHz MULTI

40 MHz, Chain A, 802.11(n) MCS8, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				10.556 dBm	30 dBm	Pass

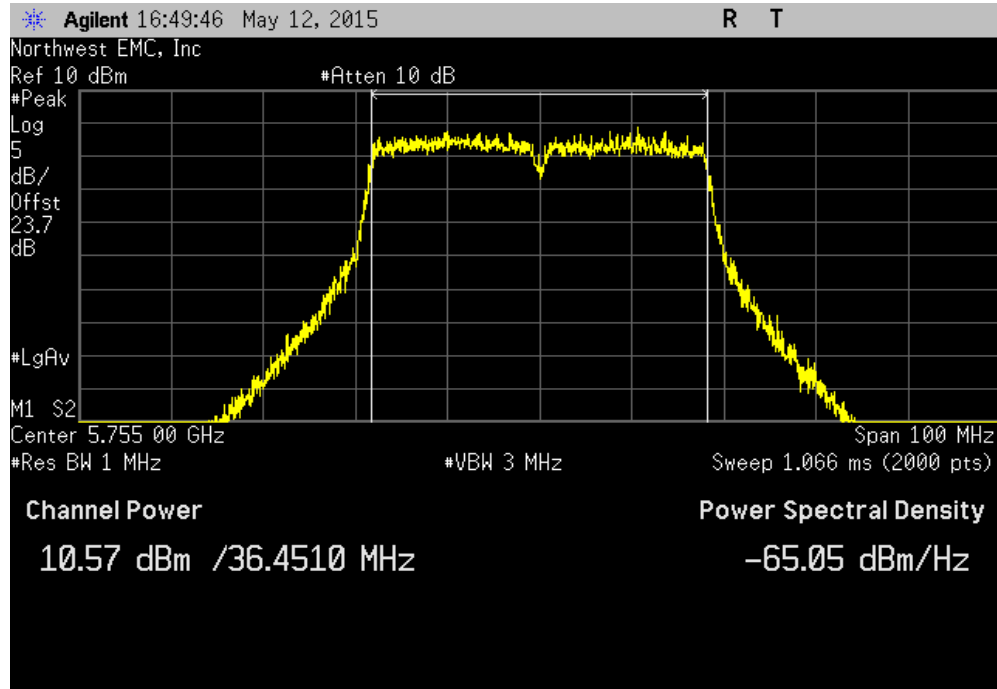


40 MHz, Chain A, 802.11(n) MCS8, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.259 dBm	30 dBm	Pass

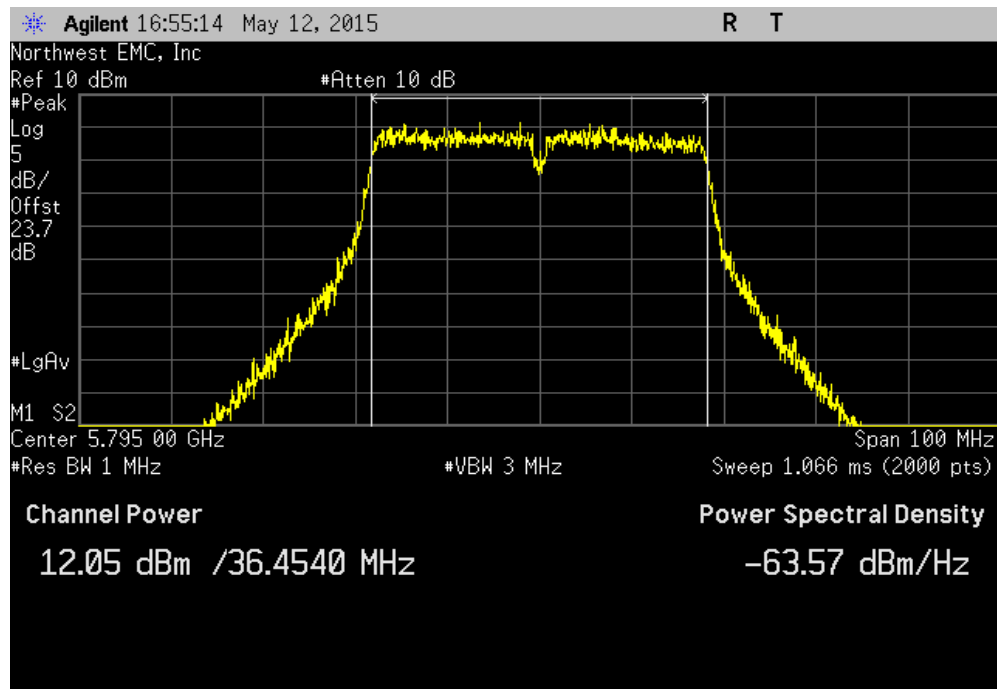


PEAK TRANSMIT POWER - 5.8GHz MULTI

40 MHz, Chain A, 802.11(n) MCS15, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				10.571 dBm	30 dBm	Pass

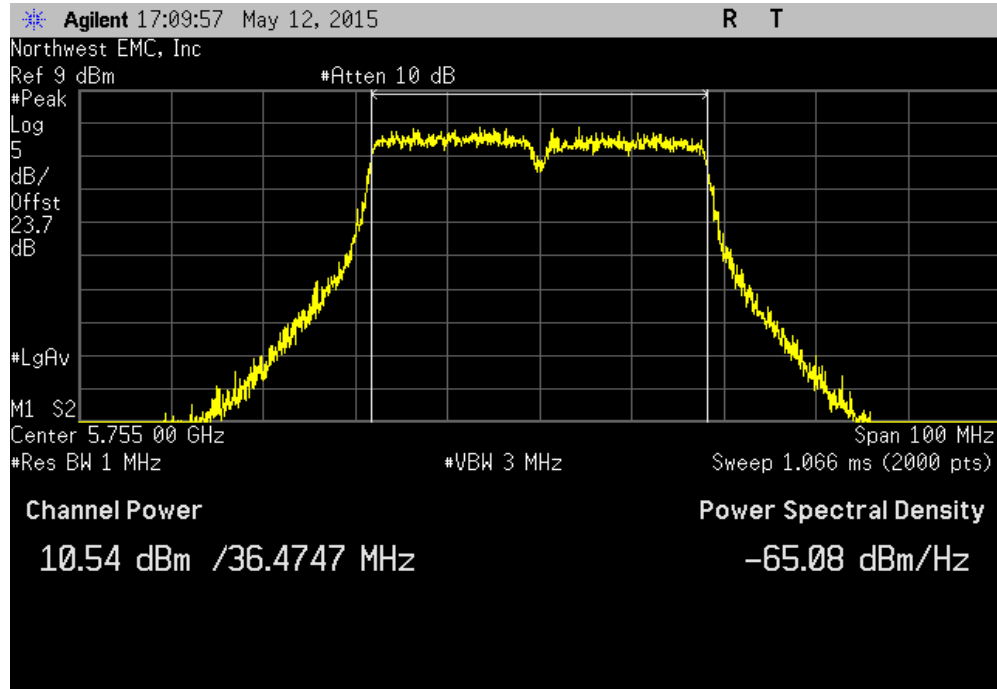


40 MHz, Chain A, 802.11(n) MCS15, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				12.048 dBm	30 dBm	Pass

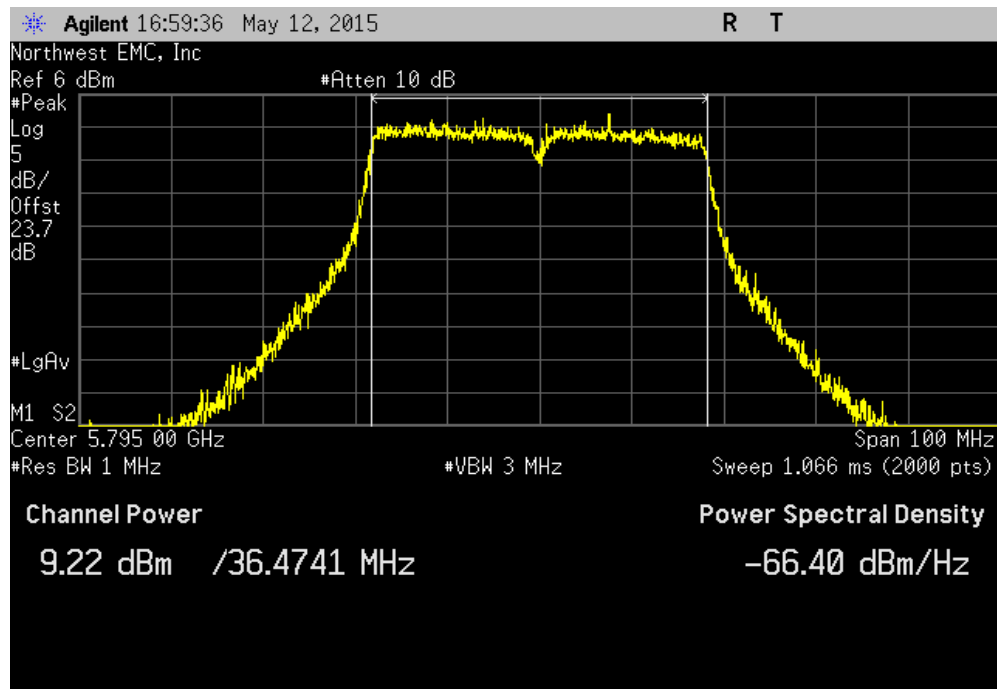


PEAK TRANSMIT POWER - 5.8GHz MULTI

40 MHz, Chain B, 802.11(n) MCS8, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				10.542 dBm	30 dBm	Pass

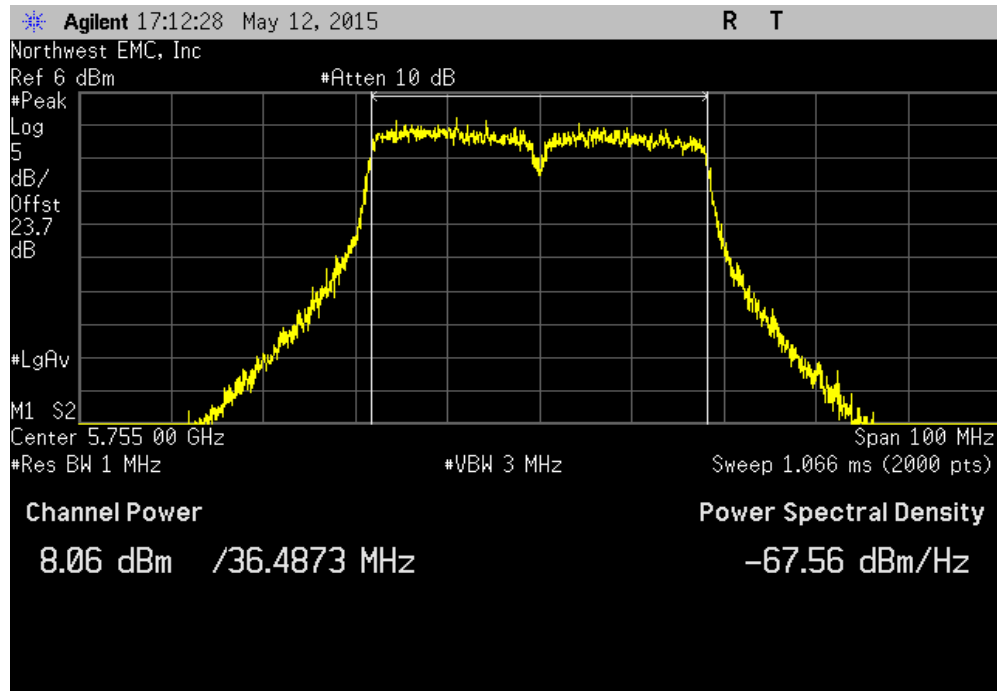


40 MHz, Chain B, 802.11(n) MCS8, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.22 dBm	30 dBm	Pass

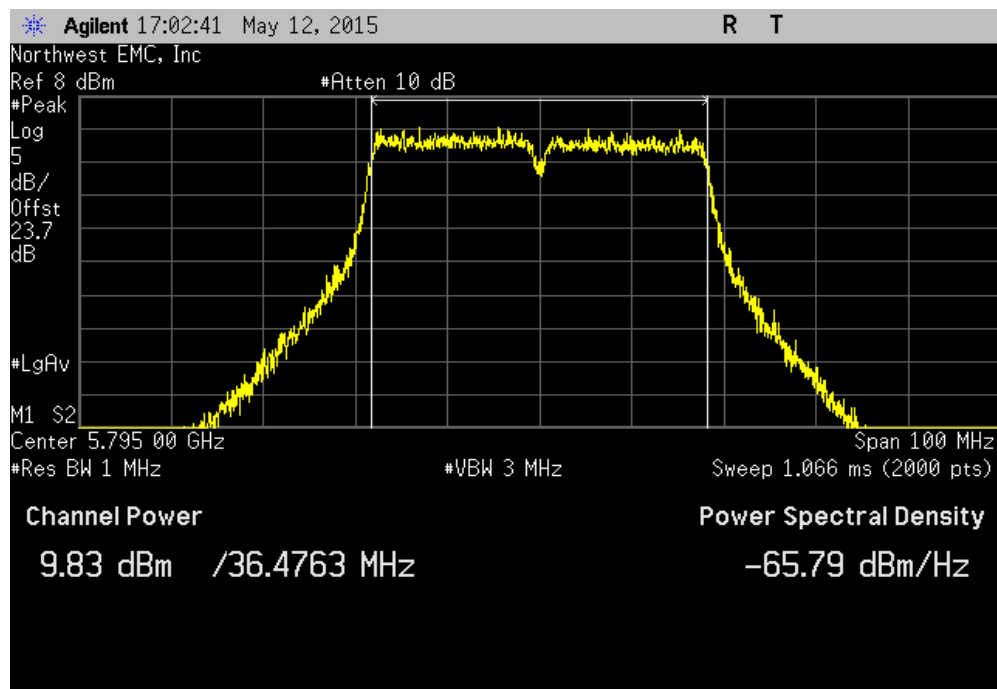


PEAK TRANSMIT POWER - 5.8GHz MULTI

40 MHz, Chain B, 802.11(n) MCS15, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				8.057 dBm	30 dBm	Pass

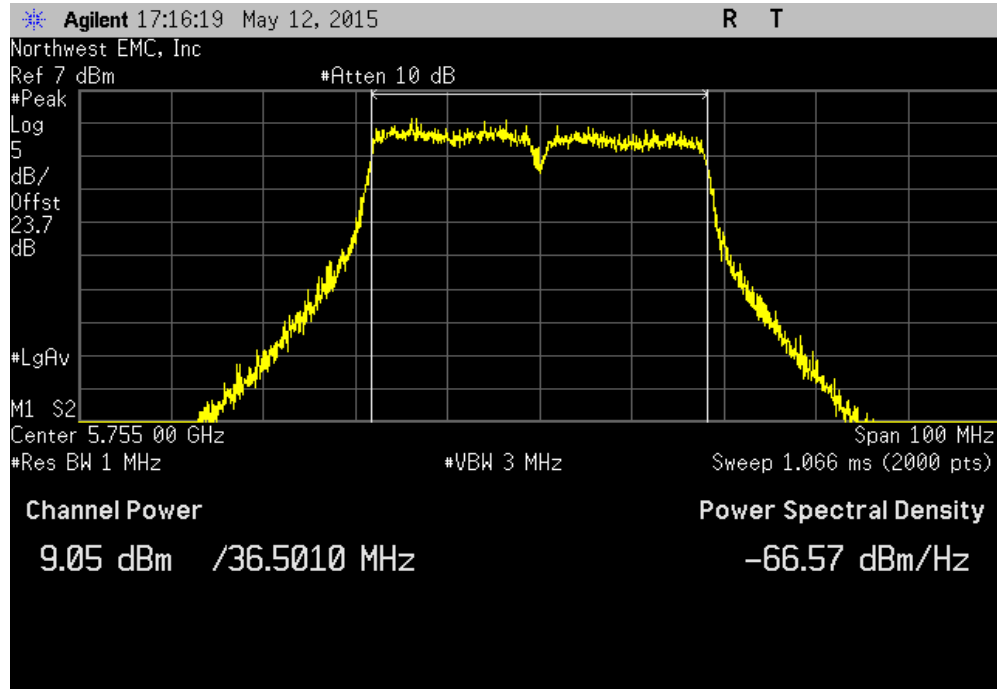


40 MHz, Chain B, 802.11(n) MCS15, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.833 dBm	30 dBm	Pass

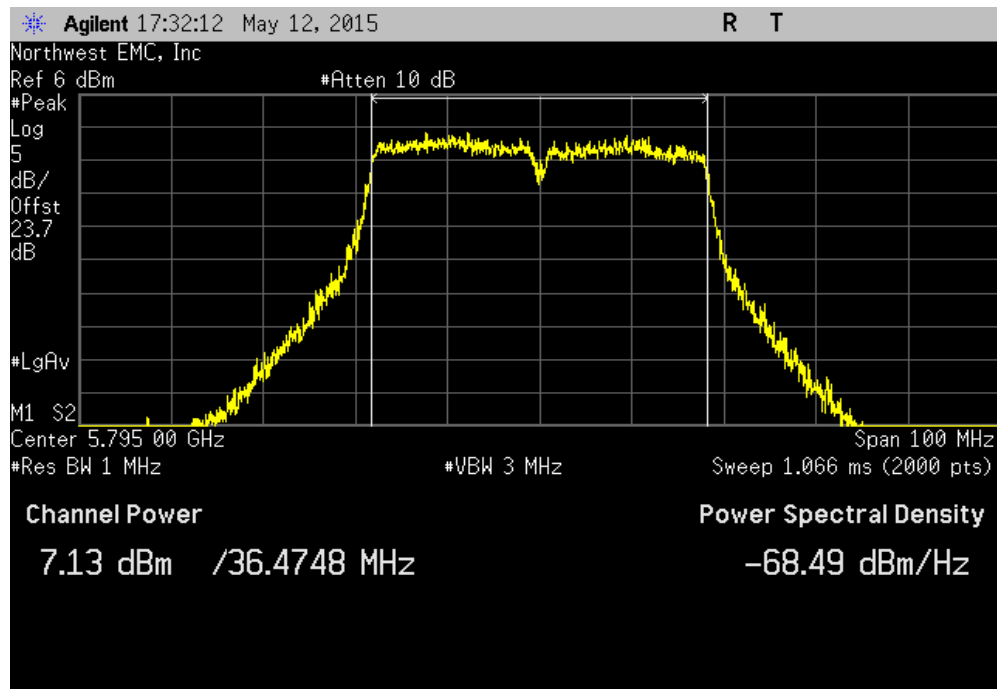


PEAK TRANSMIT POWER - 5.8GHz MULTI

40 MHz, Chain C, 802.11(n) MCS8, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				9.05 dBm	30 dBm	Pass

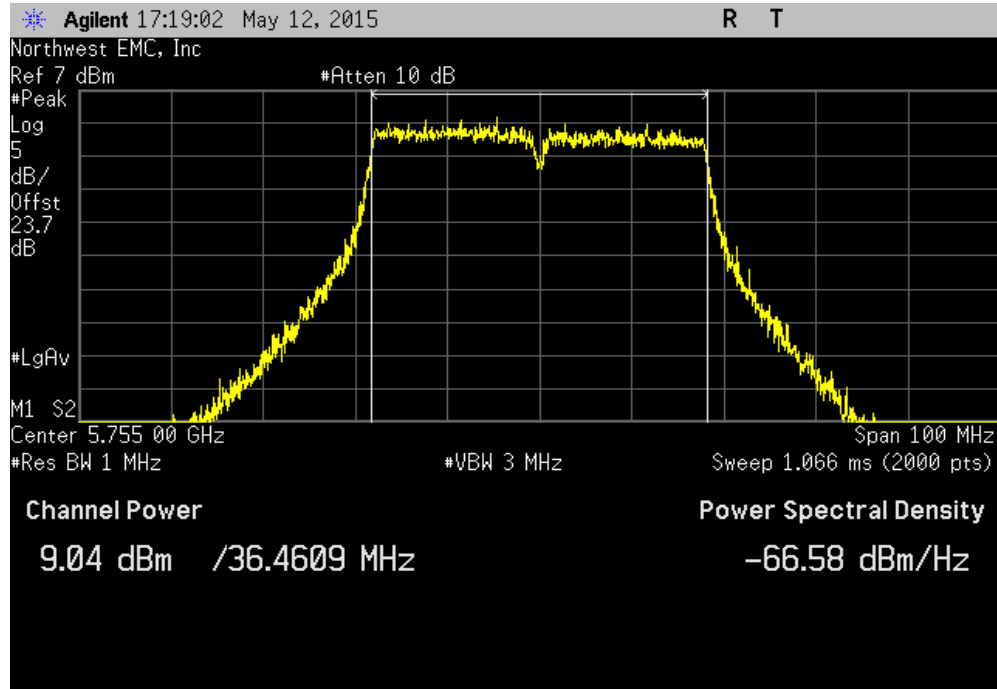


40 MHz, Chain C, 802.11(n) MCS8, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				7.127 dBm	30 dBm	Pass

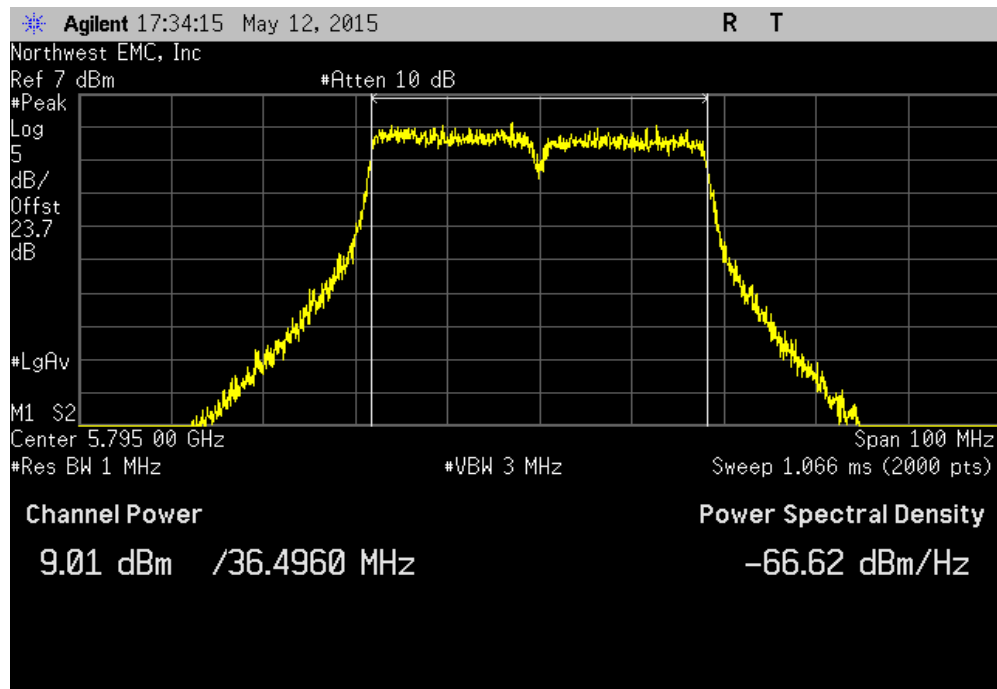


PEAK TRANSMIT POWER - 5.8GHz MULTI

40 MHz, Chain C, 802.11(n) MCS15, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				9.036 dBm	30 dBm	Pass



40 MHz, Chain C, 802.11(n) MCS15, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.007 dBm	30 dBm	Pass



PEAK TRANSMIT POWER - 5.8GHz SINGLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator, 20dB	Fairview Microwave	SA18E-10	TKS	4/8/2015	12
40GHz DC Block	Fairview Microwave	SD3379	AMN	4/8/2015	12
Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01 Section E was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

PEAK TRANSMIT POWER - 5.8GHz SINGLE



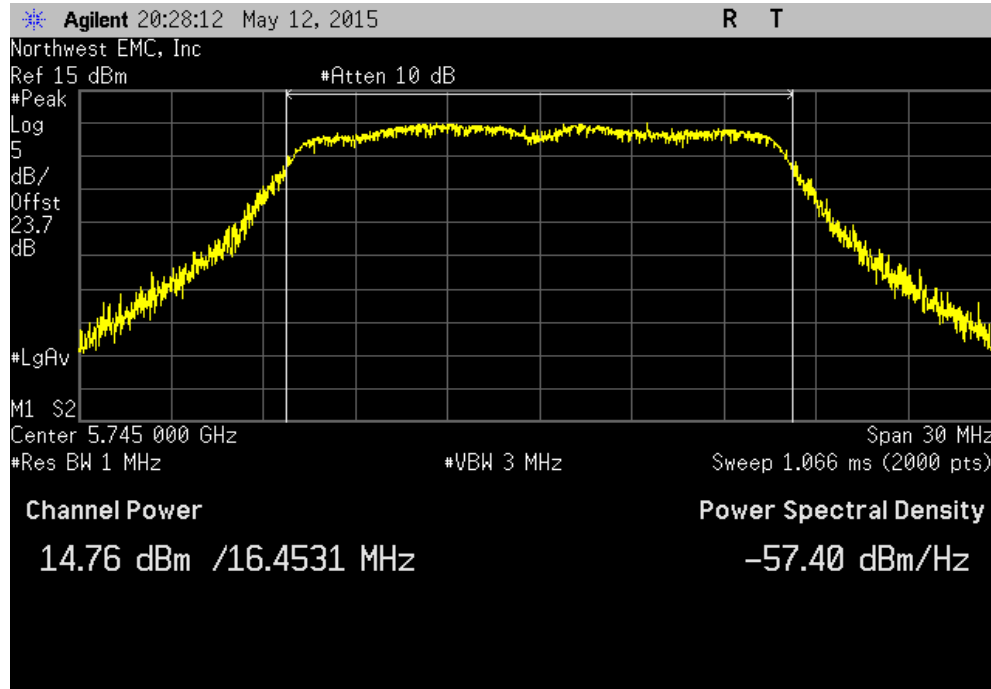
XMR 2015.01.14

EUT: RLX2-IHNF		Work Order: PROS0221	
Serial Number: 000D8DF095CE		Date: 05/11/15	
Customer: ProSoft Technology, Inc.		Temperature: 20.5°C	
Attendees: None		Humidity: 44%	
Project: None		Barometric Pres.: 1015	
Tested by: Johnny Candelas		Power: 120V/60Hz	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2015		ANSI C63.10:2009	
COMMENTS			
Offset 23.46dB (DC Block+20dB Attenuator+Coax Cable) for 5.3 & 5.6GHz / 23.67dB for 5.8GHz			
Power Setting - Max			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Value	Limit (<)
Result			
20 MHz			
Chain A			
802.11(a) 6 Mbps			
Channel 149, Low Channel		14.759 dBm	30 dBm
Channel 157, Mid Channel		14.668 dBm	30 dBm
Channel 165, High Channel		14.084 dBm	30 dBm
Pass			
802.11(a) 36 Mbps			
Channel 149, Low Channel		15.184 dBm	30 dBm
Channel 157, Mid Channel		15.543 dBm	30 dBm
Channel 165, High Channel		15.468 dBm	30 dBm
Pass			
802.11(a) 54 Mbps			
Channel 149, Low Channel		12.303 dBm	30 dBm
Channel 157, Mid Channel		12.689 dBm	30 dBm
Channel 165, High Channel		12.053 dBm	30 dBm
Pass			
802.11(n) MCS0			
Channel 149, Low Channel		9.879 dBm	30 dBm
Channel 157, Mid Channel		12.69 dBm	30 dBm
Channel 165, High Channel		10.216 dBm	30 dBm
Pass			
802.11(n) MCS7			
Channel 149, Low Channel		13.203 dBm	30 dBm
Channel 157, Mid Channel		11.177 dBm	30 dBm
Channel 165, High Channel		12.006 dBm	30 dBm
Pass			
Chain B			
802.11(a) 6 Mbps			
Channel 149, Low Channel		13.477 dBm	30 dBm
Channel 157, Mid Channel		11.958 dBm	30 dBm
Channel 165, High Channel		12.179 dBm	30 dBm
Pass			
802.11(a) 36 Mbps			
Channel 149, Low Channel		13.984 dBm	30 dBm
Channel 157, Mid Channel		13.791 dBm	30 dBm
Channel 165, High Channel		15.006 dBm	30 dBm
Pass			
802.11(a) 54 Mbps			
Channel 149, Low Channel		10.638 dBm	30 dBm
Channel 157, Mid Channel		9.489 dBm	30 dBm
Channel 165, High Channel		11.299 dBm	30 dBm
Pass			
802.11(n) MCS0			
Channel 149, Low Channel		10.355 dBm	30 dBm
Channel 157, Mid Channel		9.533 dBm	30 dBm
Channel 165, High Channel		11.681 dBm	30 dBm
Pass			
802.11(n) MCS7			
Channel 149, Low Channel		10.266 dBm	30 dBm
Channel 157, Mid Channel		9.373 dBm	30 dBm
Channel 165, High Channel		11.721 dBm	30 dBm
Pass			
Chain C			
802.11(a) 6 Mbps			
Channel 149, Low Channel		14.638 dBm	30 dBm
Channel 157, Mid Channel		14.283 dBm	30 dBm
Channel 165, High Channel		13.028 dBm	30 dBm
Pass			
802.11(a) 36 Mbps			
Channel 149, Low Channel		13.678 dBm	30 dBm
Channel 157, Mid Channel		12.415 dBm	30 dBm
Channel 165, High Channel		13.362 dBm	30 dBm
Pass			
802.11(a) 54 Mbps			
Channel 149, Low Channel		10.765 dBm	30 dBm
Channel 157, Mid Channel		8.995 dBm	30 dBm
Channel 165, High Channel		9.614 dBm	30 dBm
Pass			
802.11(n) MCS0			
Channel 149, Low Channel		10.143 dBm	30 dBm
Channel 157, Mid Channel		8.861 dBm	30 dBm
Channel 165, High Channel		9.598 dBm	30 dBm
Pass			
802.11(n) MCS7			
Channel 149, Low Channel		10.082 dBm	30 dBm
Channel 157, Mid Channel		8.984 dBm	30 dBm
Channel 165, High Channel		10.425 dBm	30 dBm
Pass			
40 MHz			
Chain A			
802.11(n) MCS0			
Channel 149/153, Low Channel		10.556 dBm	30 dBm
Channel 157/161, High Channel		9.259 dBm	30 dBm
Pass			
802.11(n) MCS7			
Channel 149/153, Low Channel		10.571 dBm	30 dBm
Channel 157/161, High Channel		12.048 dBm	30 dBm
Pass			

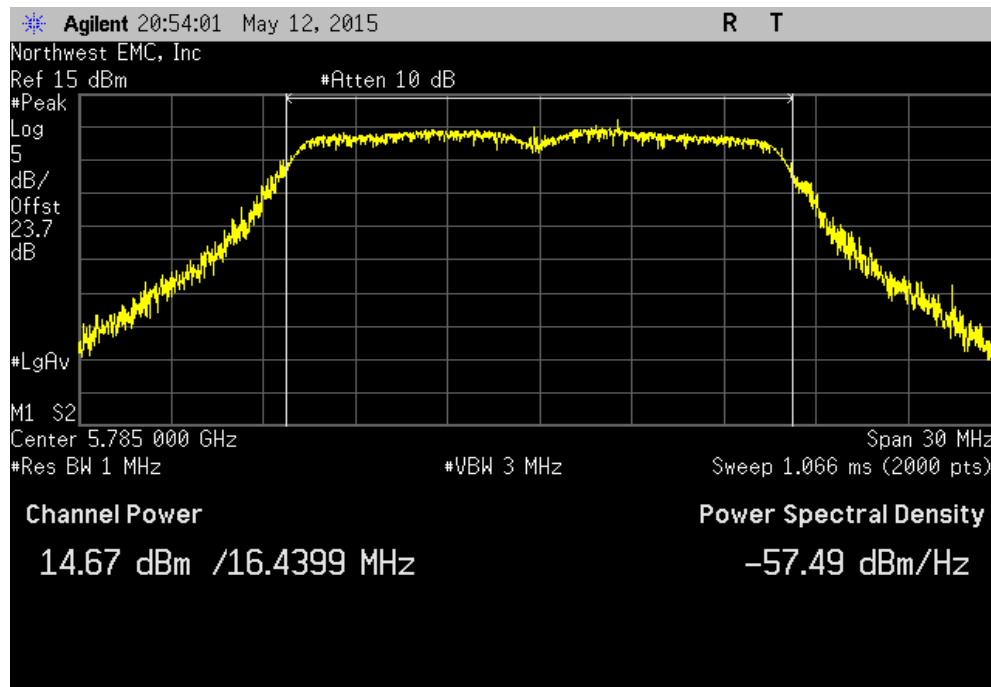
Chain B				
802.11(n) MCS0				
	Channel 149/153, Low Channel	10.542 dBm	30 dBm	Pass
	Channel 157/161, High Channel	9.22 dBm	30 dBm	Pass
802.11(n) MCS7				
	Channel 149/153, Low Channel	8.057 dBm	30 dBm	Pass
	Channel 157/161, High Channel	9.833 dBm	30 dBm	Pass
Chain C				
802.11(n) MCS0				
	Channel 149/153, Low Channel	9.05 dBm	30 dBm	Pass
	Channel 157/161, High Channel	7.127 dBm	30 dBm	Pass
802.11(n) MCS7				
	Channel 149/153, Low Channel	9.036 dBm	30 dBm	Pass
	Channel 157/161, High Channel	9.007 dBm	30 dBm	Pass

PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				14.759 dBm	30 dBm	Pass

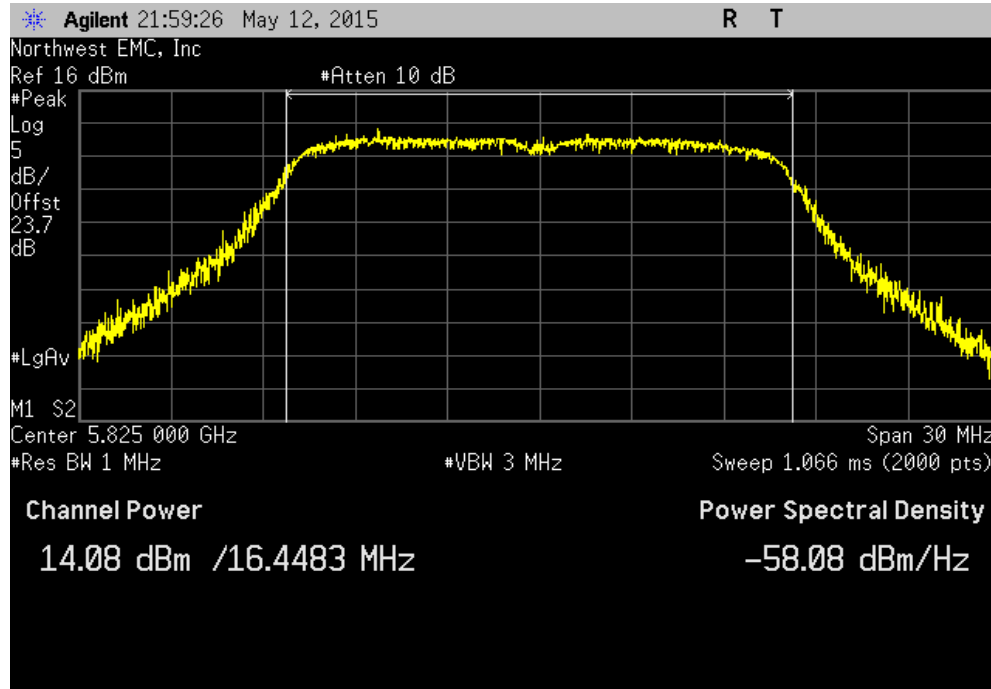


20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				14.668 dBm	30 dBm	Pass

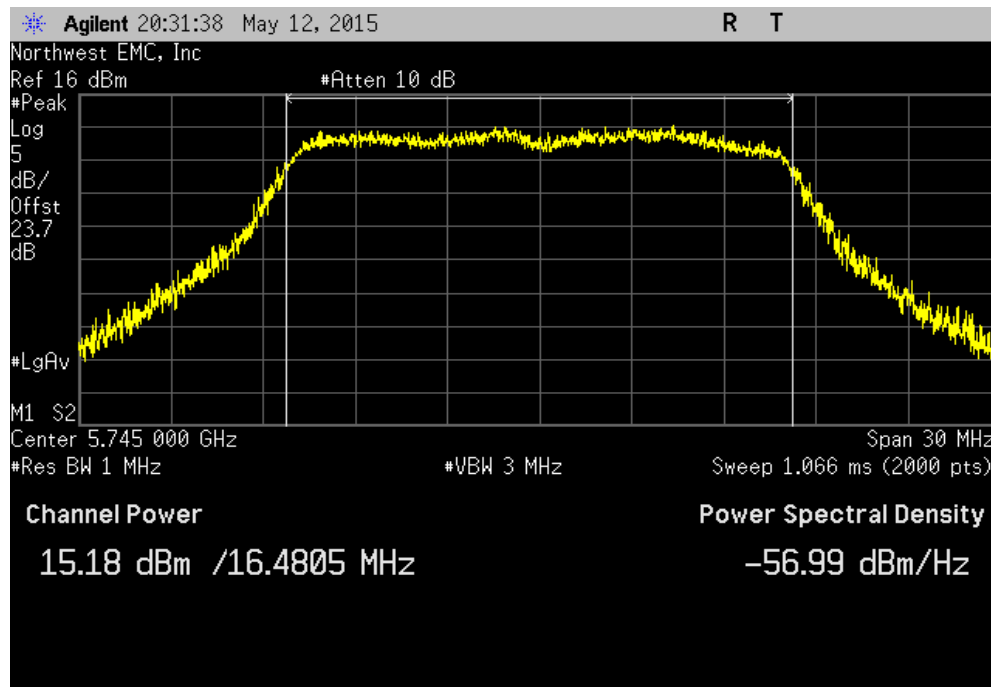


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 165, High Channel						
Value				Limit	Result	
				(<)		
14.084 dBm				30 dBm	Pass	

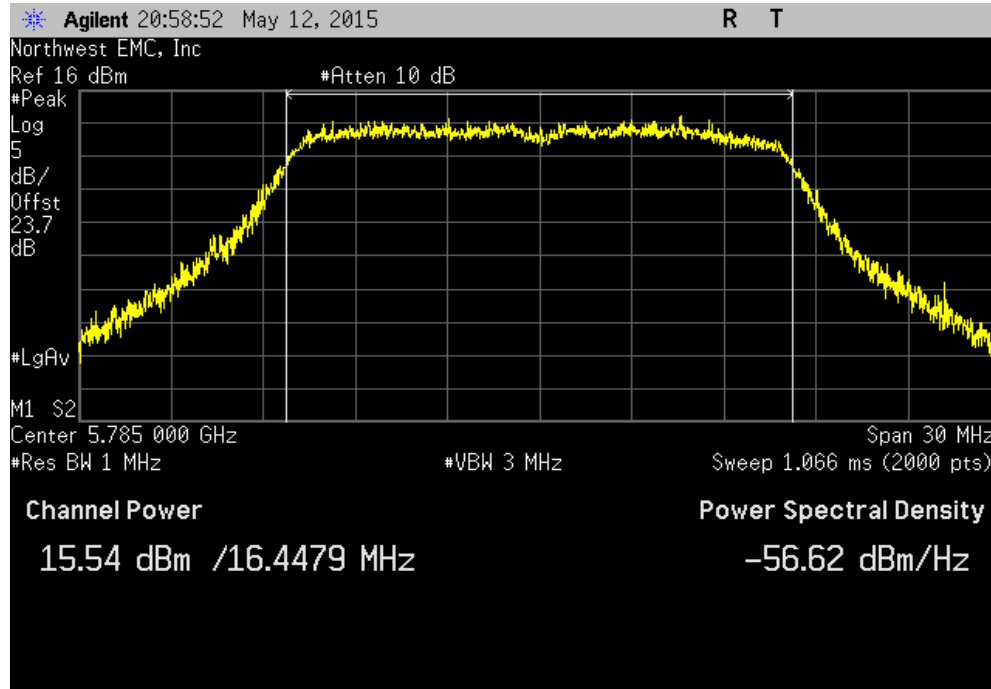


20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 149, Low Channel						
Value				Limit	Result	
				(<)		
15.184 dBm				30 dBm	Pass	

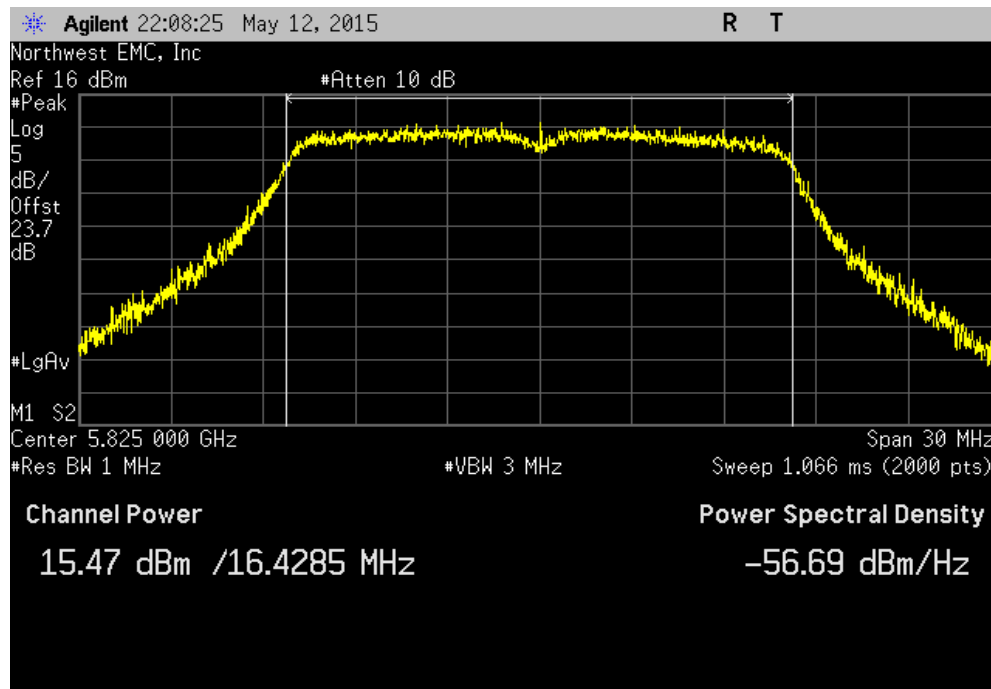


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				15.543 dBm	30 dBm	Pass

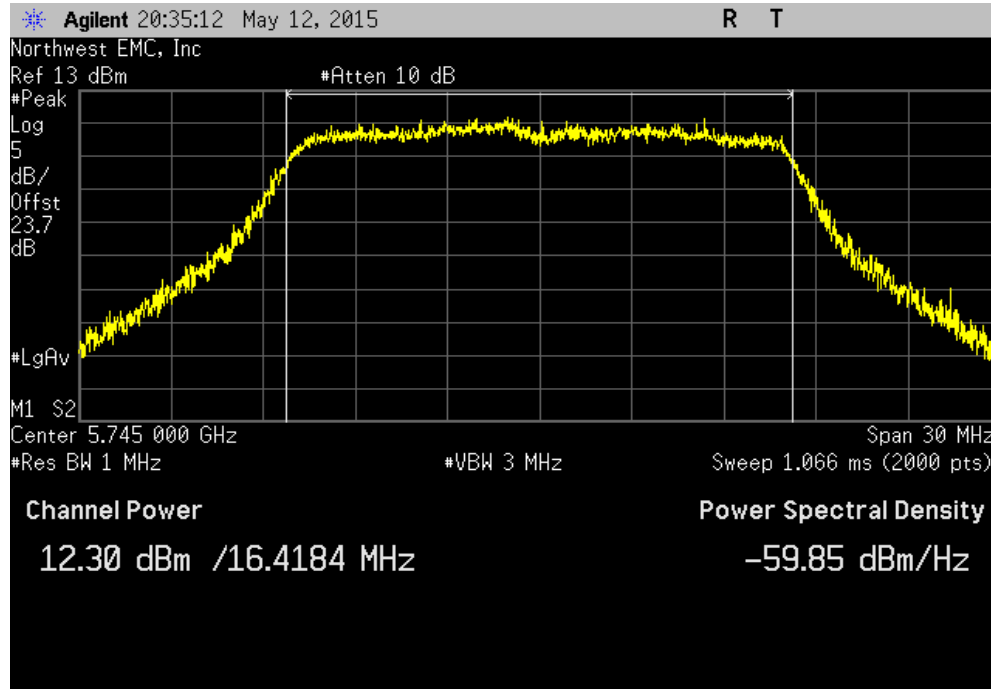


20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 165, High Channel						
				Value	Limit (<)	Result
				15.468 dBm	30 dBm	Pass

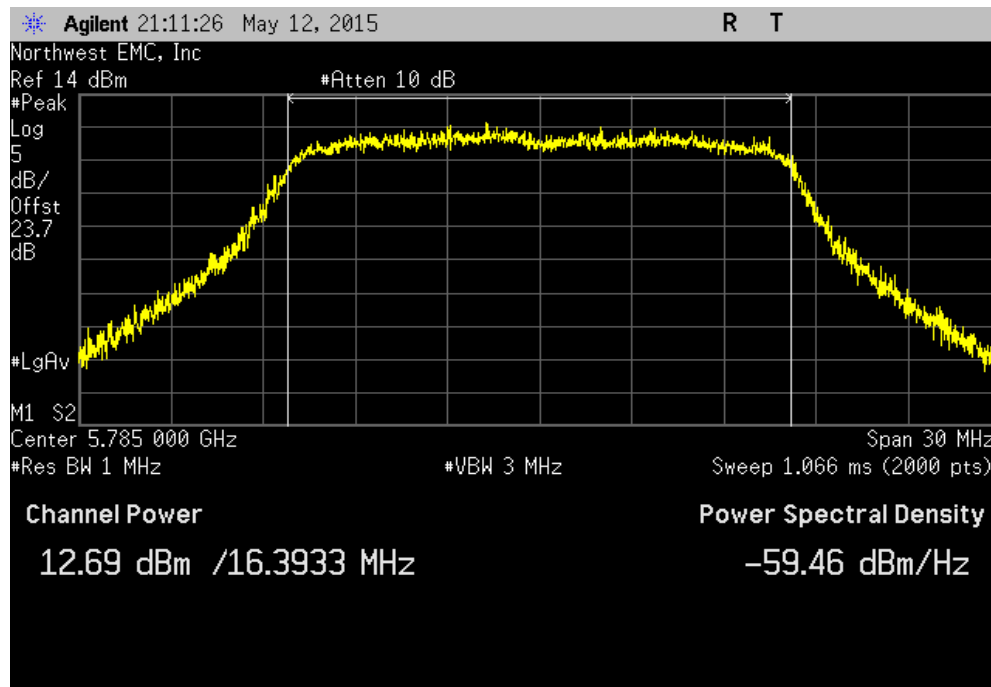


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				12.303 dBm	30 dBm	Pass

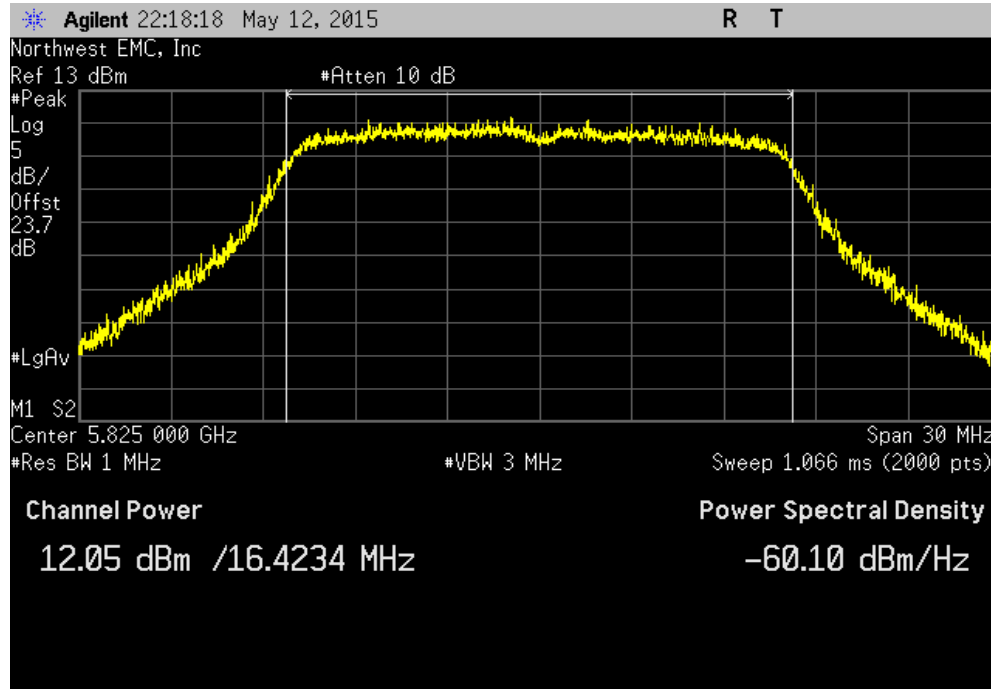


20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				12.689 dBm	30 dBm	Pass

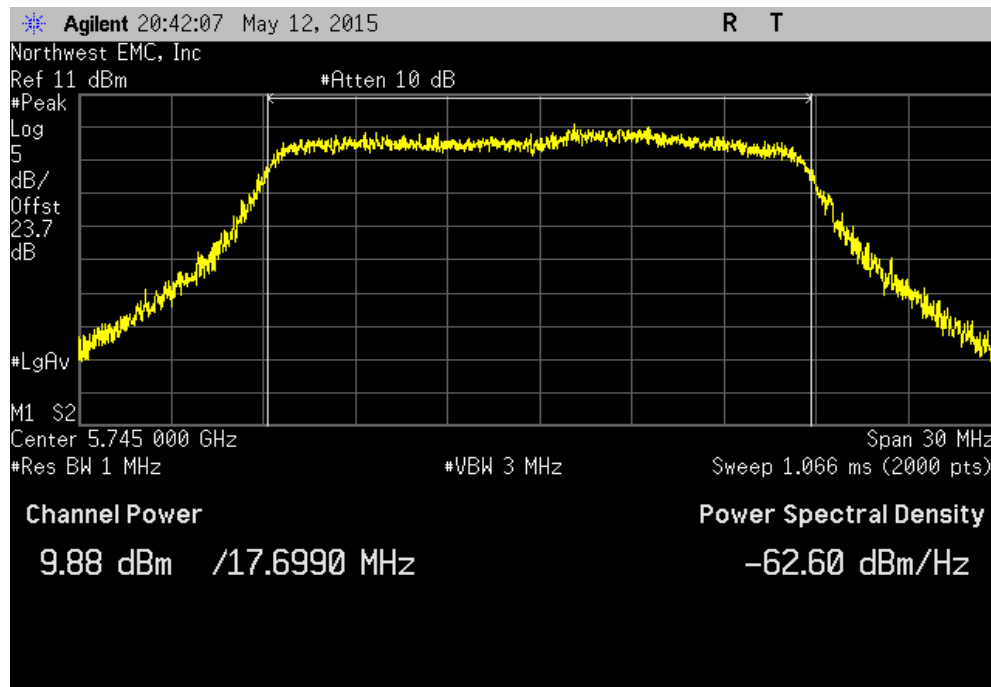


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 165, High Channel						
				Value	Limit (<)	Result
				12.053 dBm	30 dBm	Pass

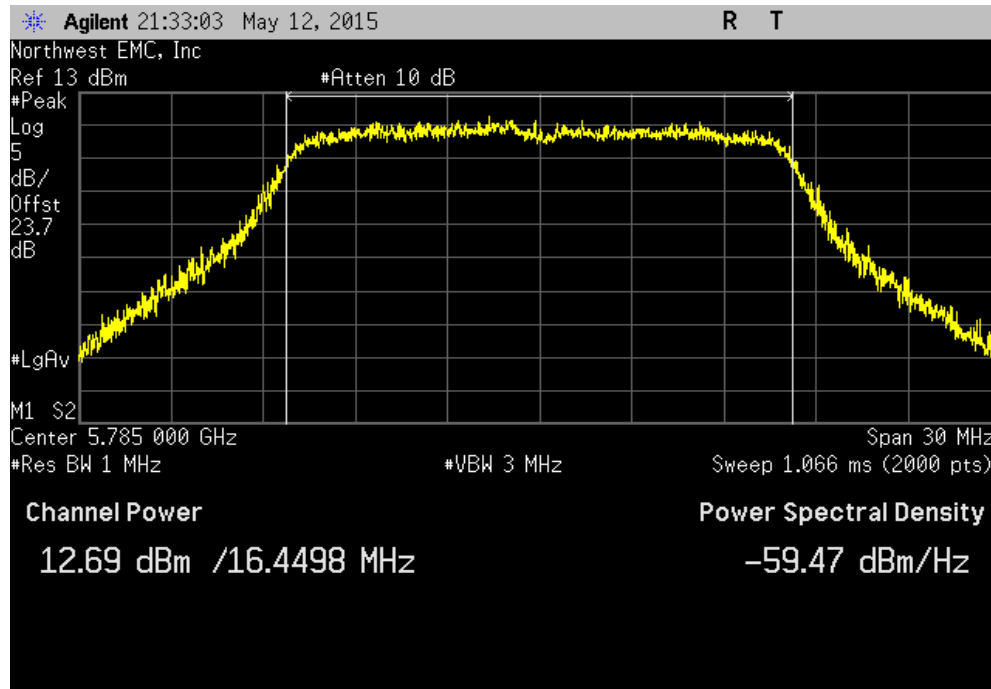


20 MHz, Chain A, 802.11(n) MCS0, Channel 149, Low Channel						
				Value	Limit (<)	Result
				9.879 dBm	30 dBm	Pass

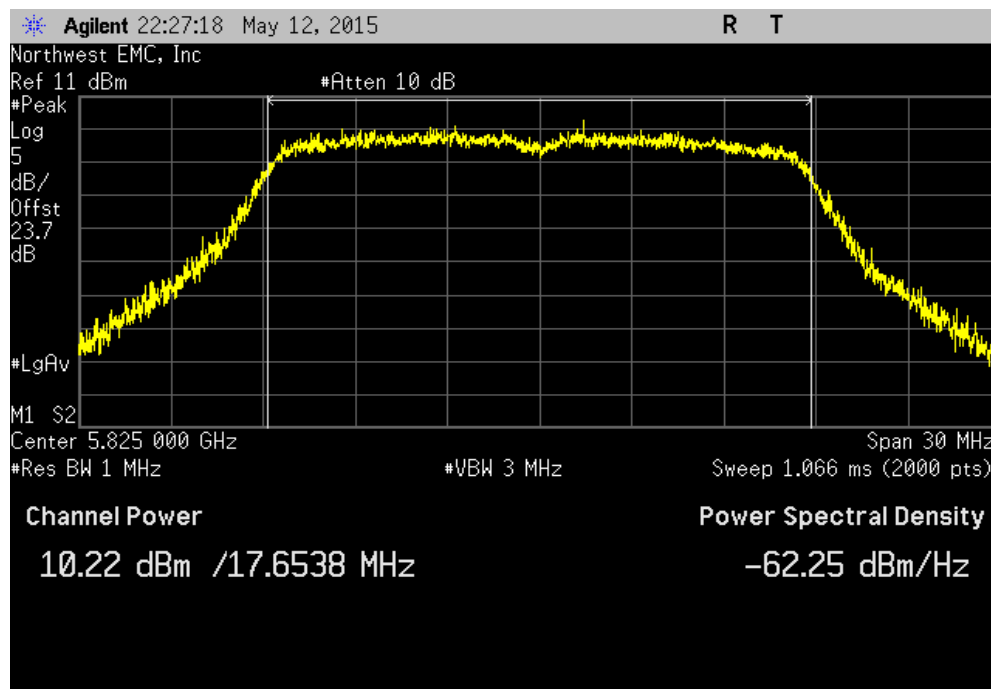


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS0, Channel 157, Mid Channel						
				Value	Limit ($<$)	Result
				12.69 dBm	30 dBm	Pass

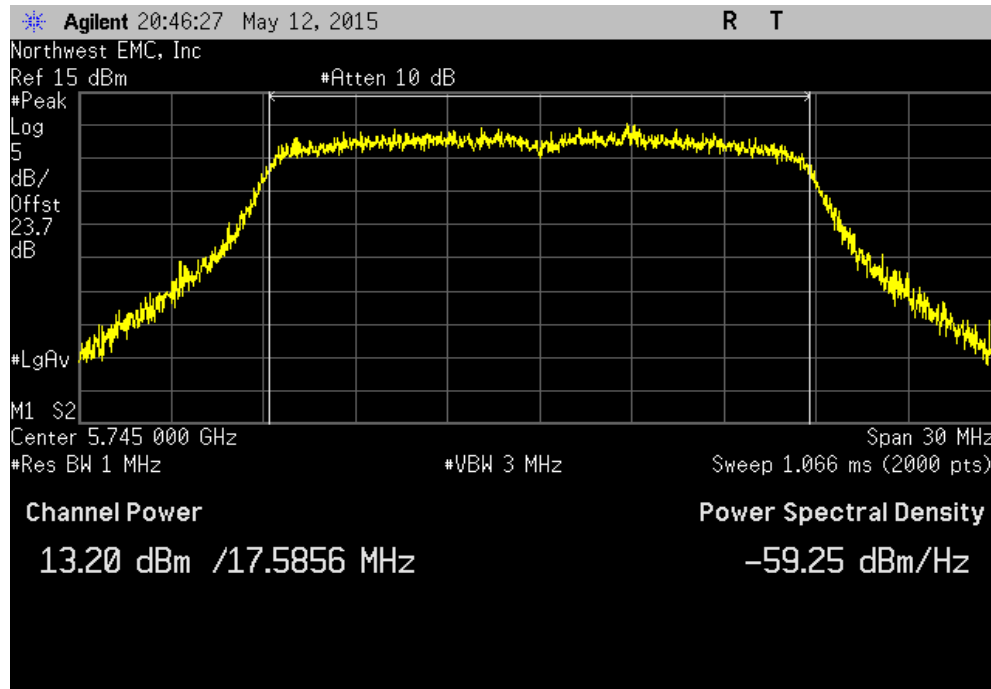


20 MHz, Chain A, 802.11(n) MCS0, Channel 165, High Channel						
				Value	Limit ($<$)	Result
				10.216 dBm	30 dBm	Pass

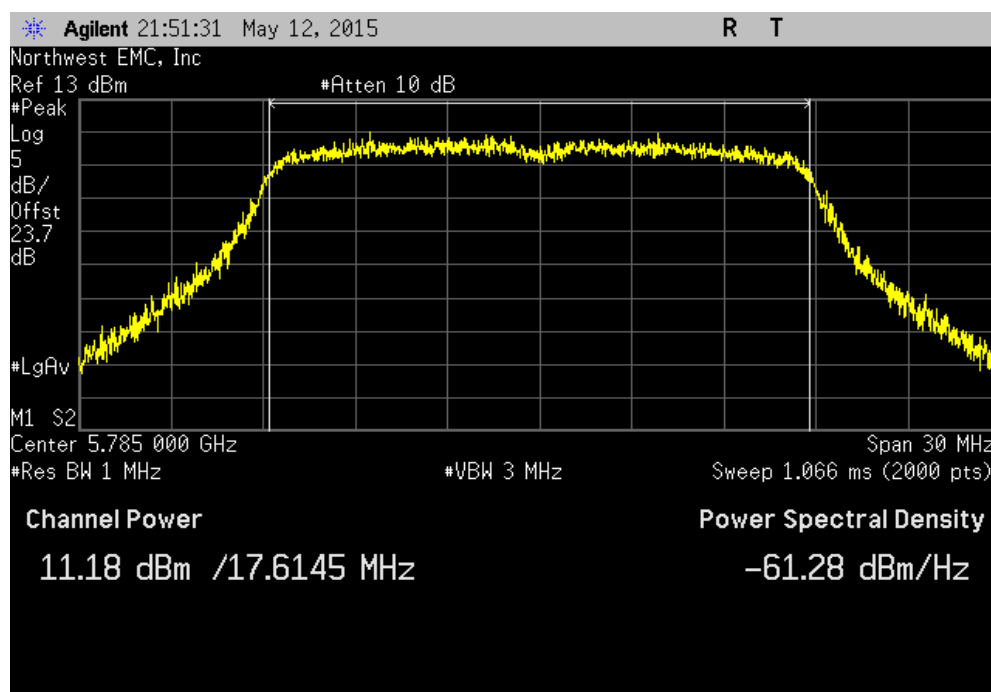


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS7, Channel 149, Low Channel						
				Value	Limit (<)	Result
				13.203 dBm	30 dBm	Pass

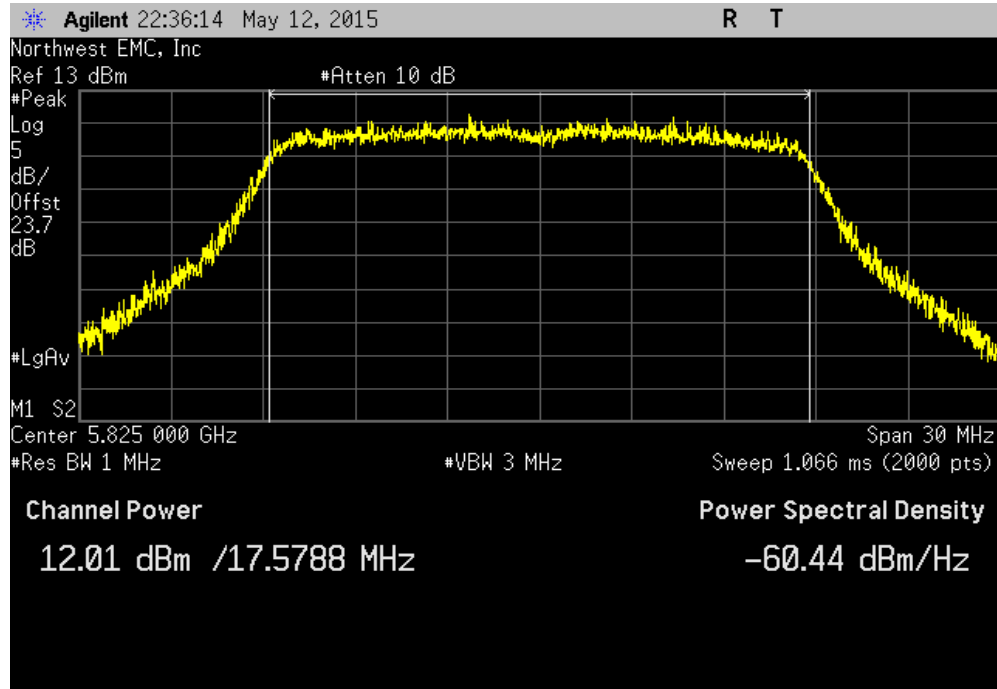


20 MHz, Chain A, 802.11(n) MCS7, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				11.177 dBm	30 dBm	Pass

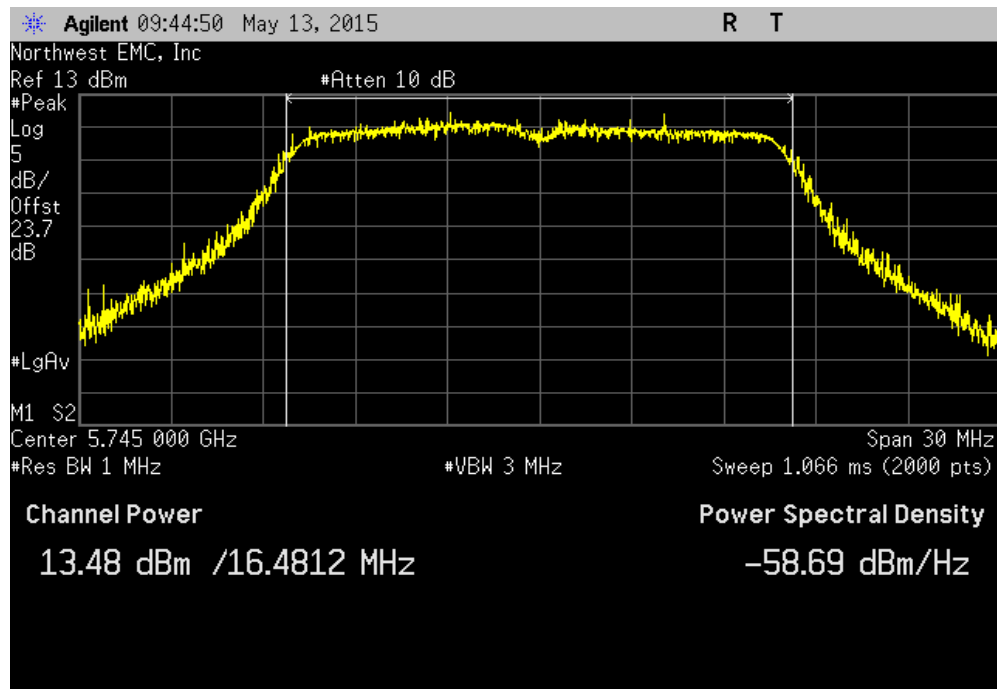


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS7, Channel 165, High Channel						
				Value	Limit (<)	Result
				12.006 dBm	30 dBm	Pass

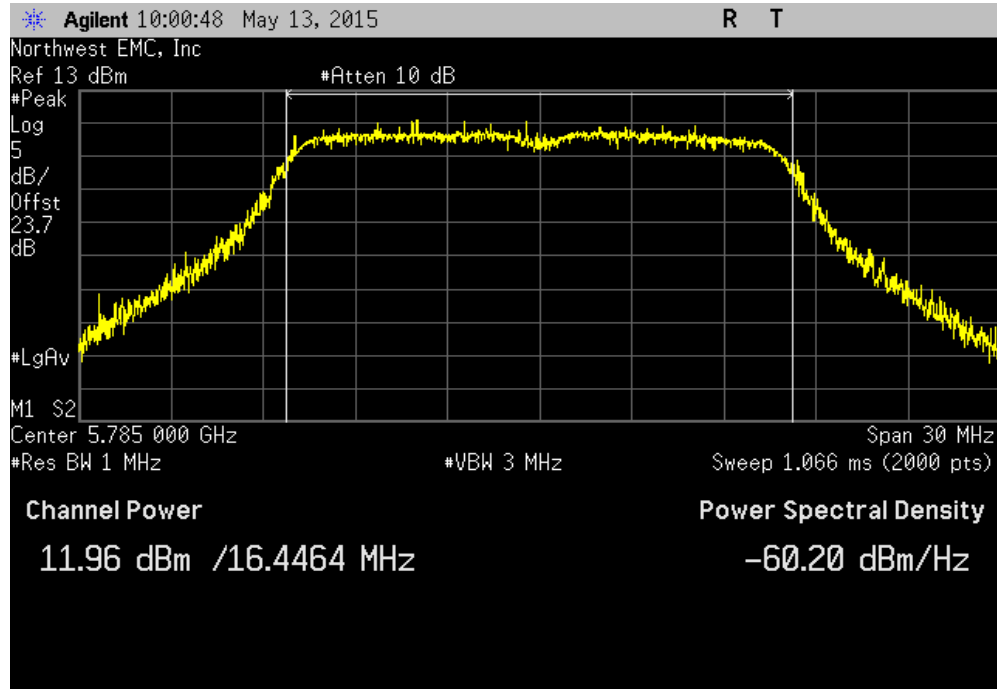


20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				13.477 dBm	30 dBm	Pass

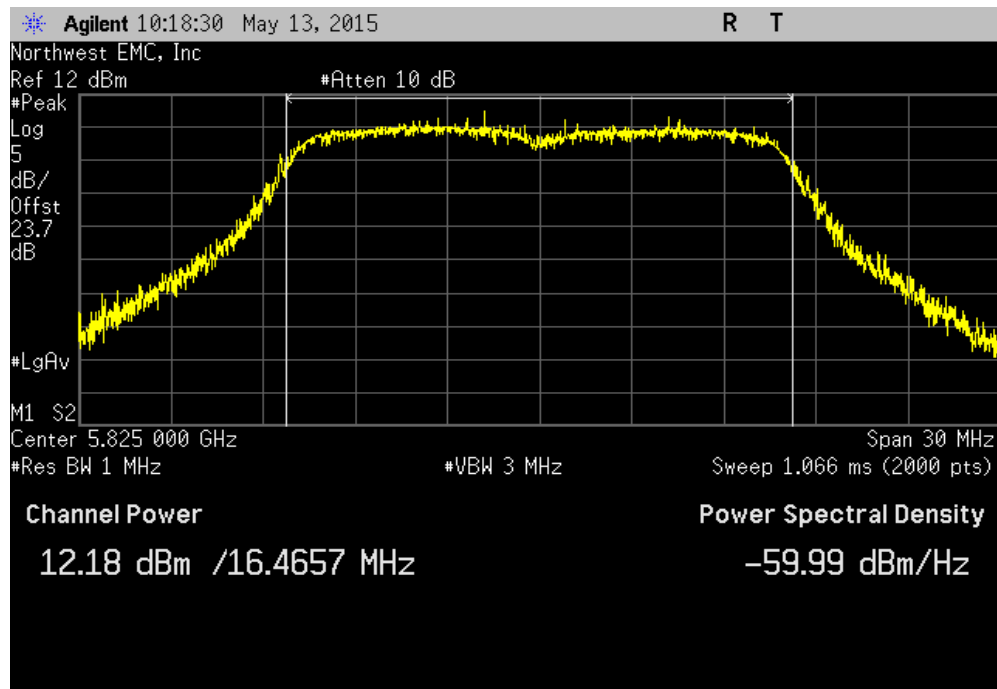


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				11.958 dBm	30 dBm	Pass

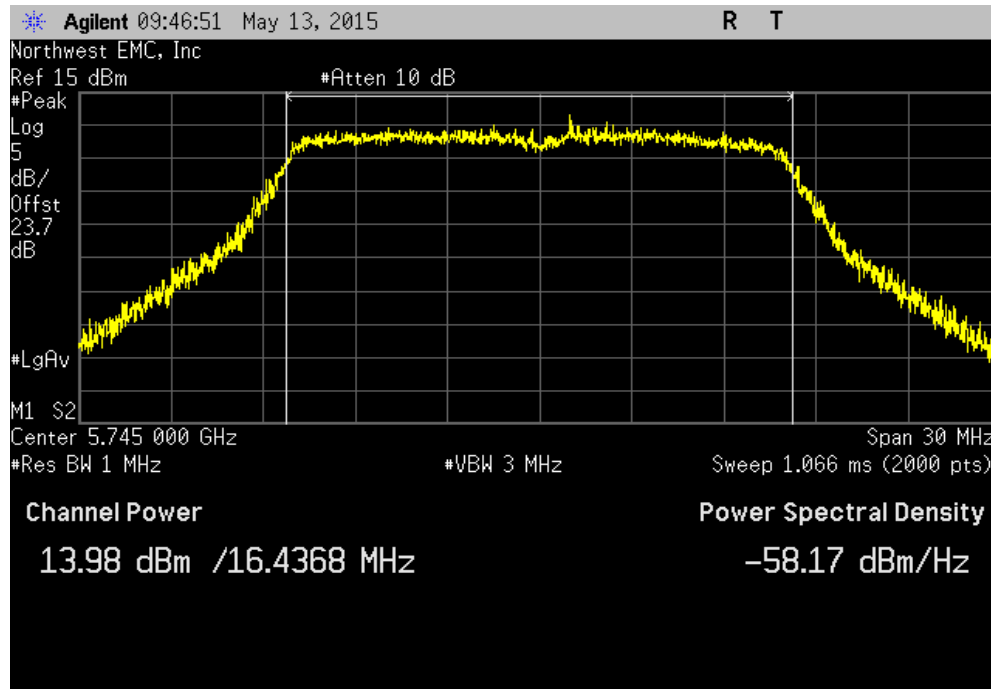


20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 165, High Channel						
				Value	Limit (<)	Result
				12.179 dBm	30 dBm	Pass

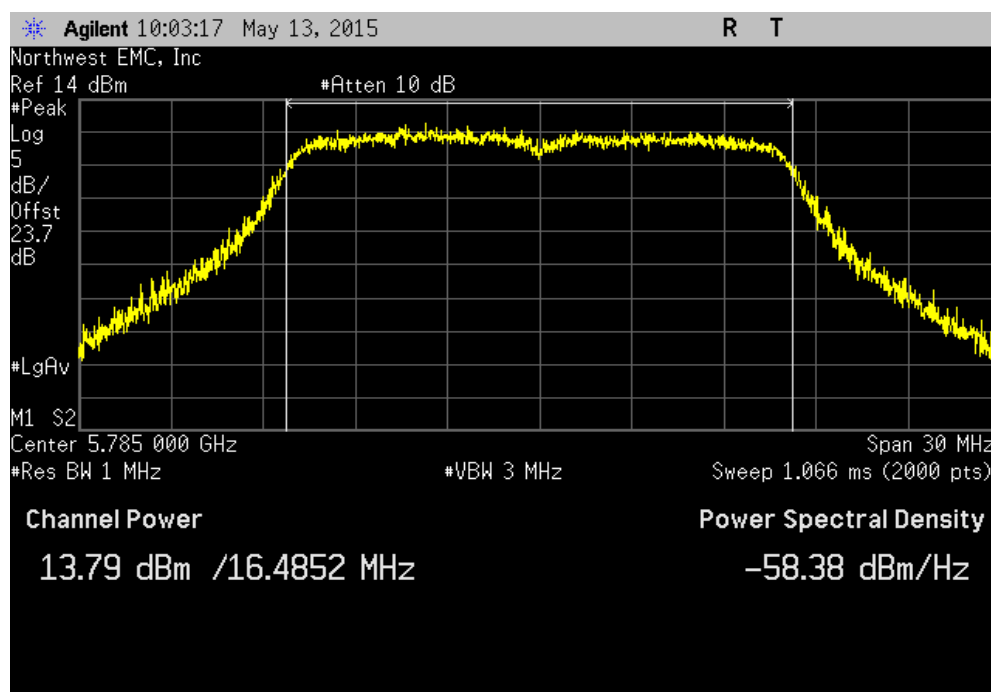


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				13.984 dBm	30 dBm	Pass

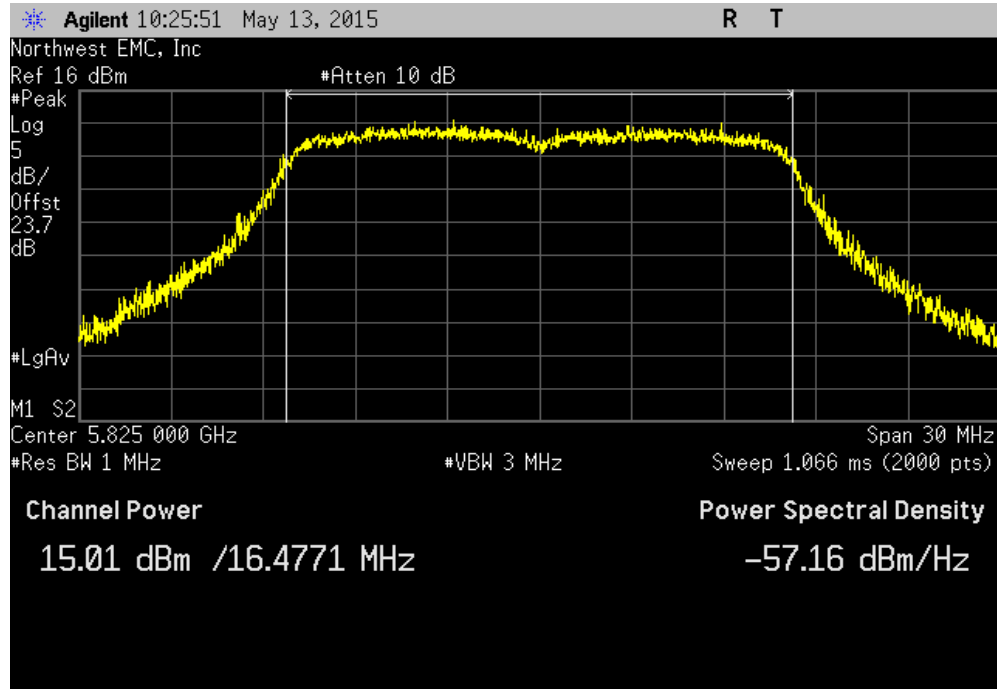


20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				13.791 dBm	30 dBm	Pass

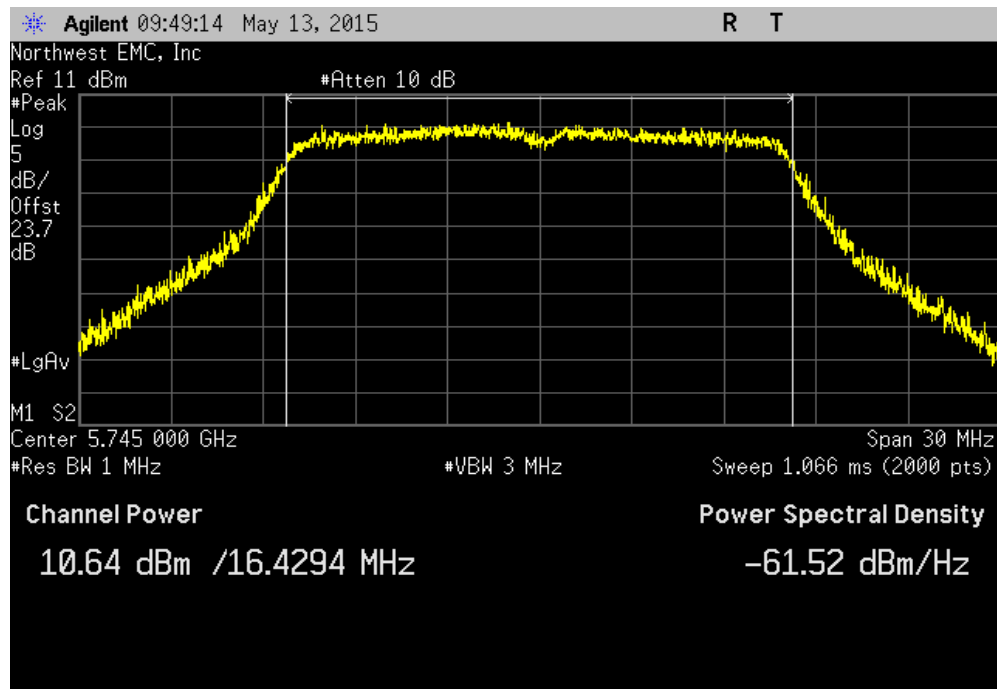


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 165, High Channel						
				Value	Limit (<)	Result
				15.006 dBm	30 dBm	Pass



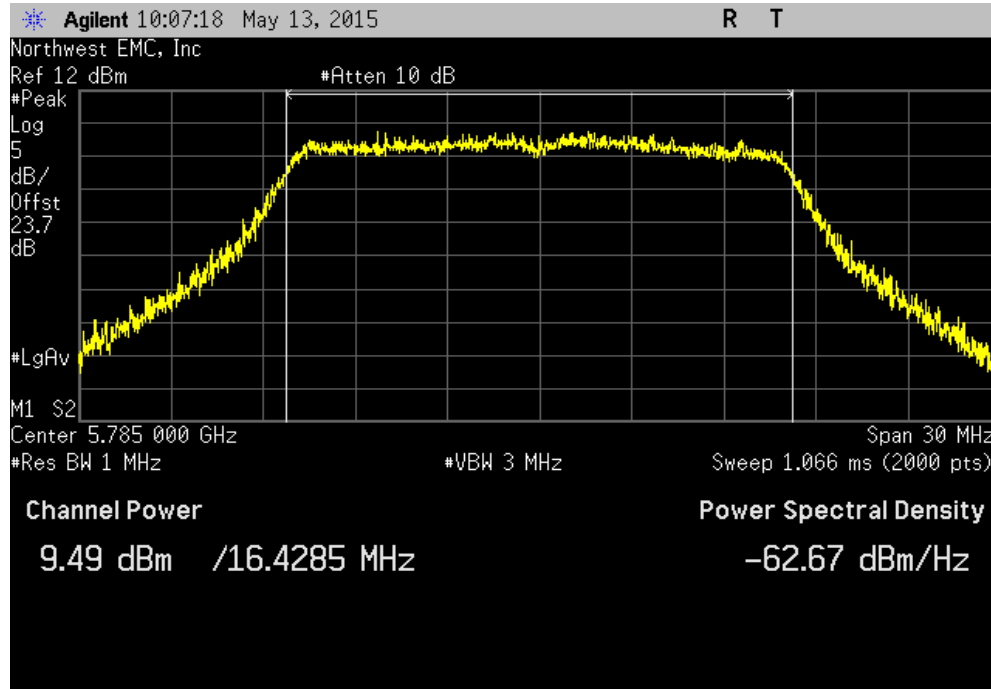
20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.638 dBm	30 dBm	Pass



PEAK TRANSMIT POWER - 5.8GHz SINGLE

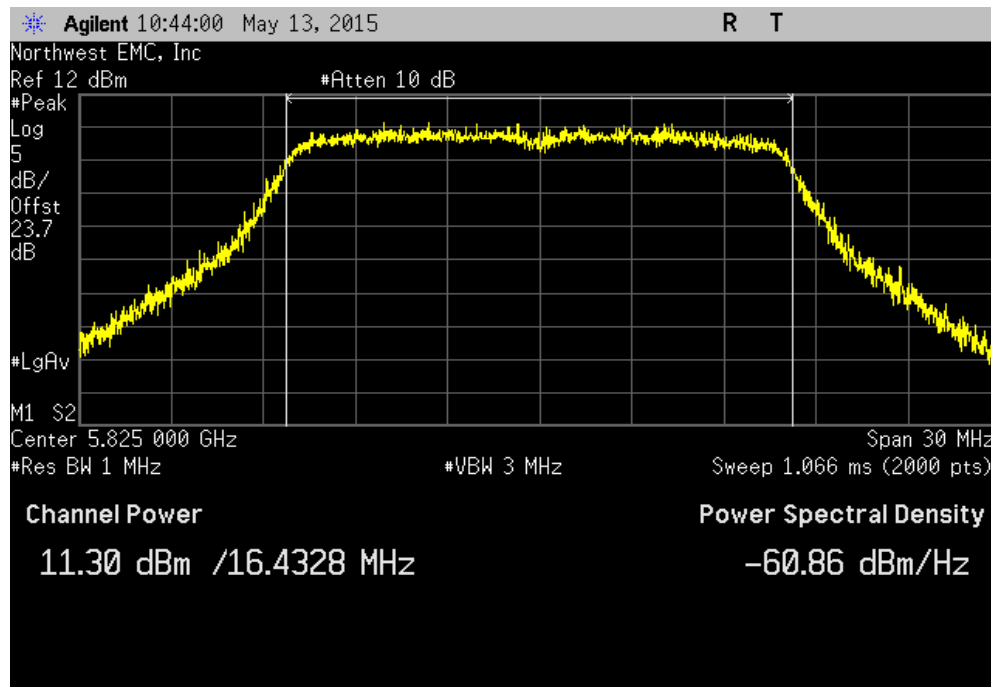
20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 157, Mid Channel

	Value	Limit (<)	Result
	9.489 dBm	30 dBm	Pass



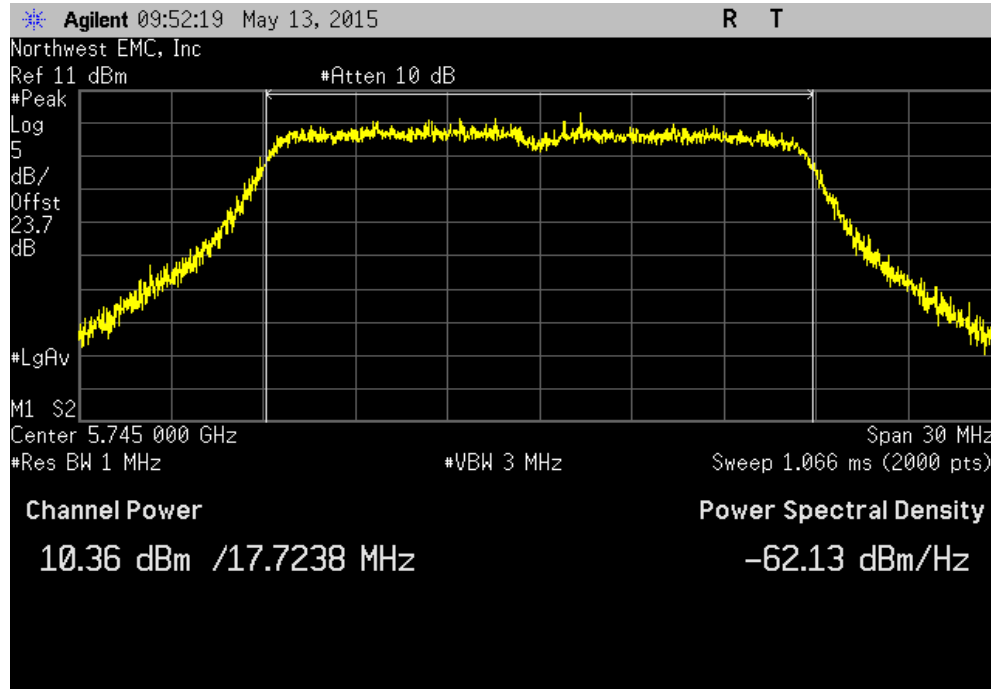
20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 165, High Channel

	Value	Limit (<)	Result
	11.299 dBm	30 dBm	Pass

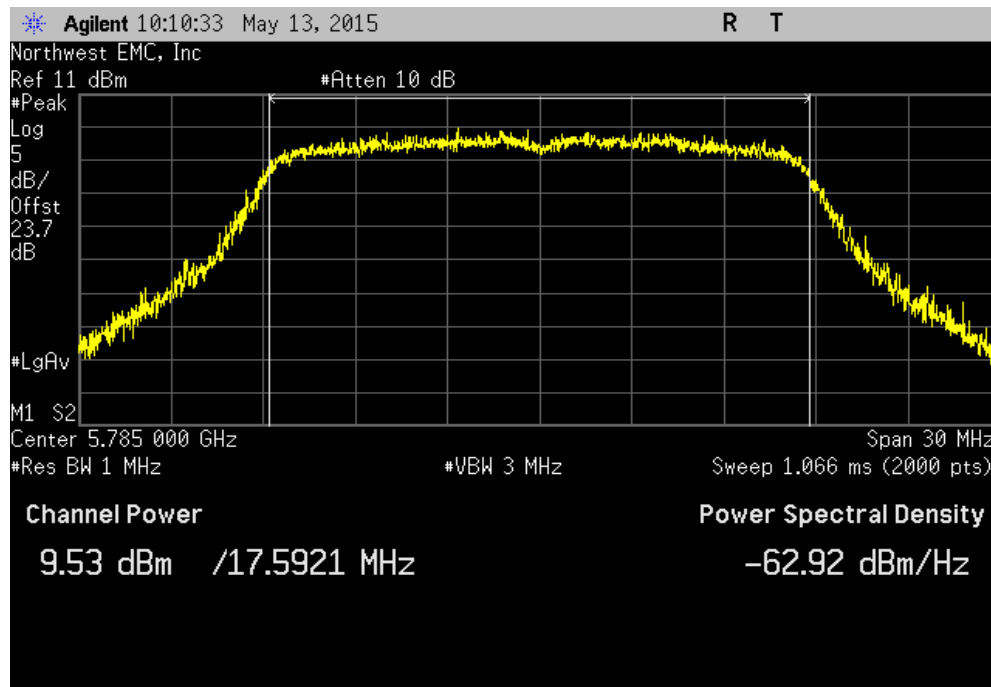


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS0, Channel 149, Low Channel						
				Value	Limit ($<$)	Result
				10.355 dBm	30 dBm	Pass

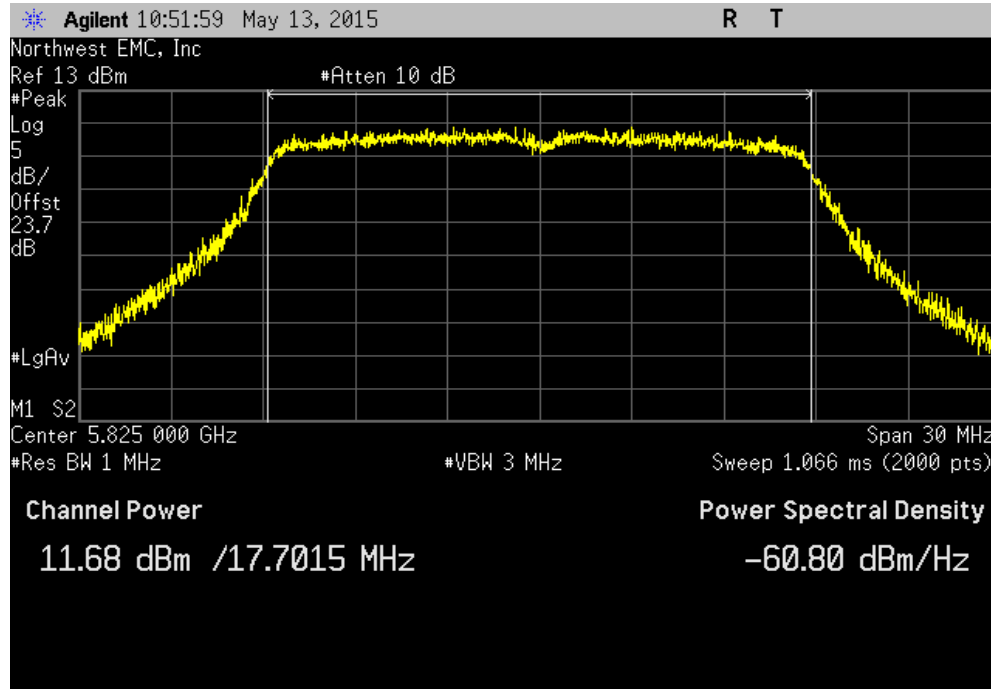


20 MHz, Chain B, 802.11(n) MCS0, Channel 157, Mid Channel						
				Value	Limit ($<$)	Result
				9.533 dBm	30 dBm	Pass

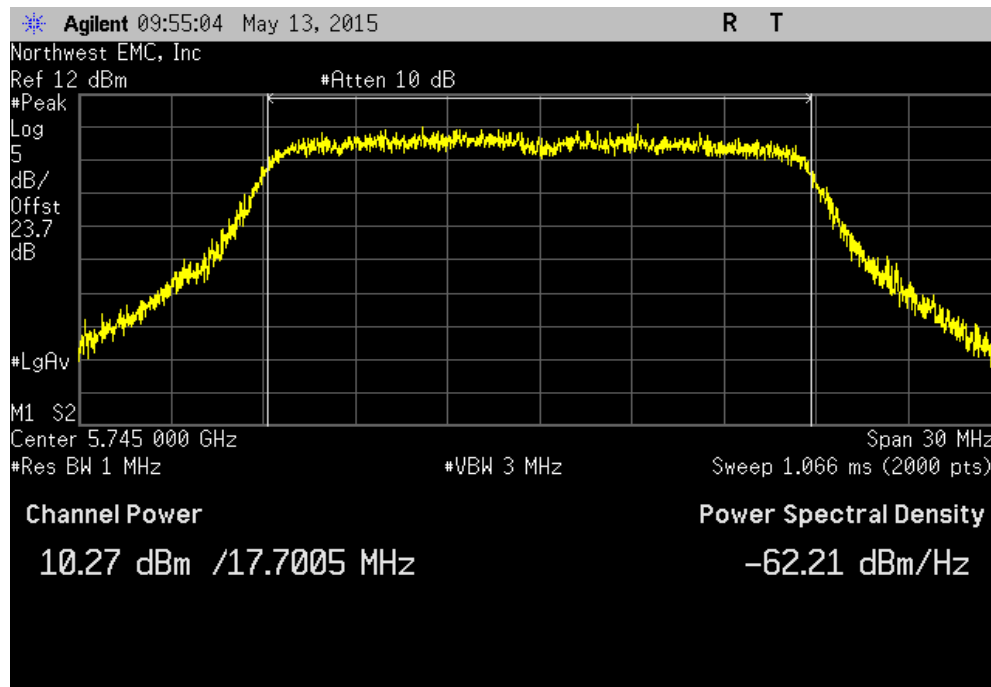


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS0, Channel 165, High Channel						
				Value	Limit (<)	Result
				11.681 dBm	30 dBm	Pass

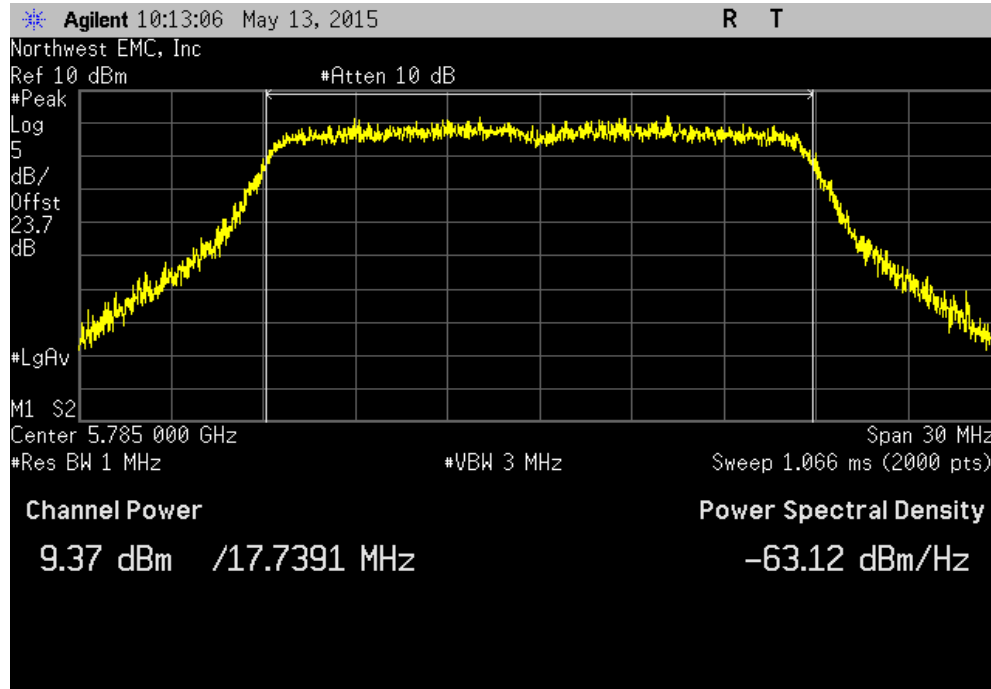


20 MHz, Chain B, 802.11(n) MCS7, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.266 dBm	30 dBm	Pass

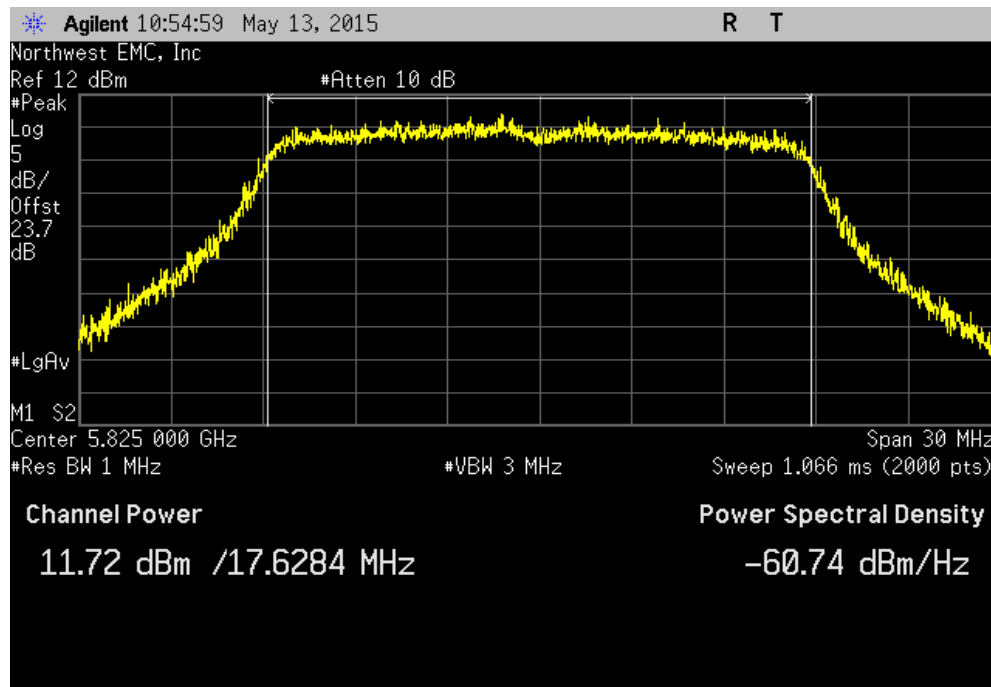


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS7, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				9.373 dBm	30 dBm	Pass

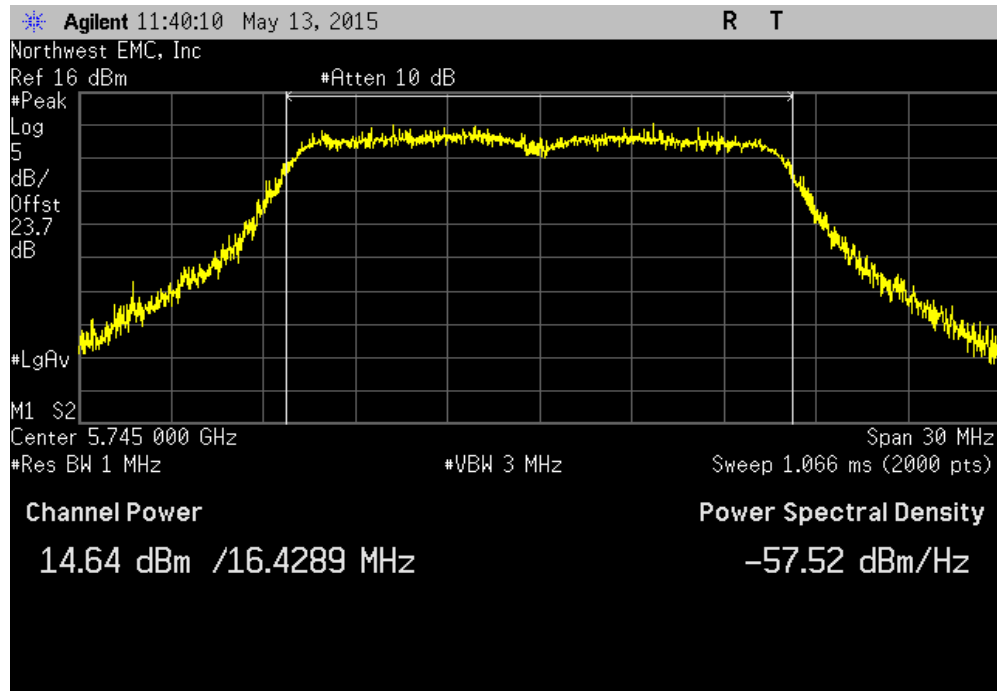


20 MHz, Chain B, 802.11(n) MCS7, Channel 165, High Channel						
				Value	Limit (<)	Result
				11.721 dBm	30 dBm	Pass

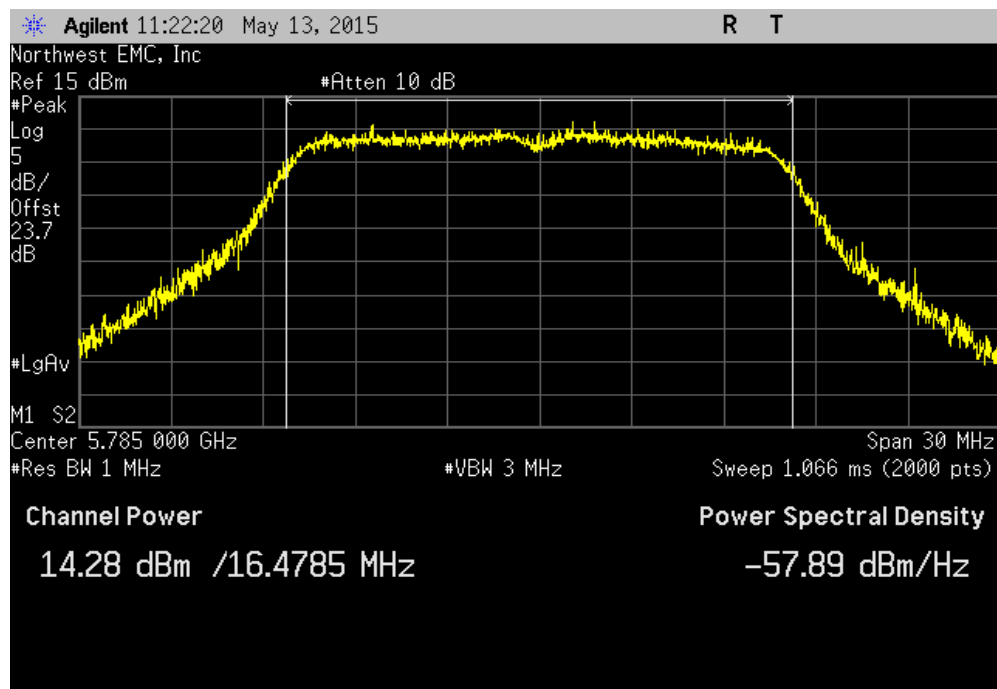


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				14.638 dBm	30 dBm	Pass

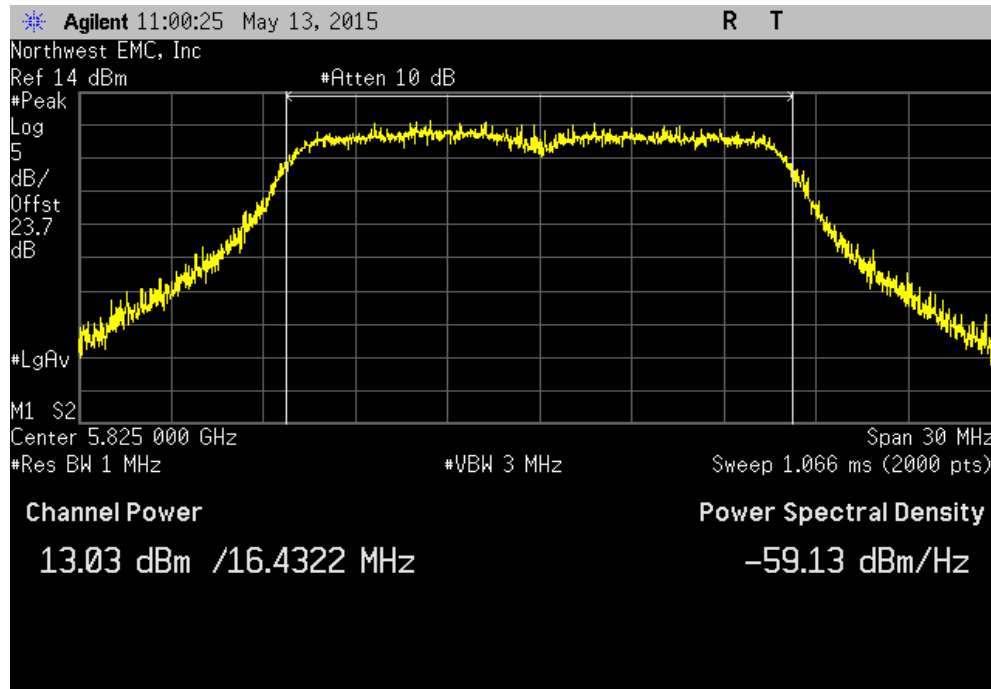


20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				14.283 dBm	30 dBm	Pass

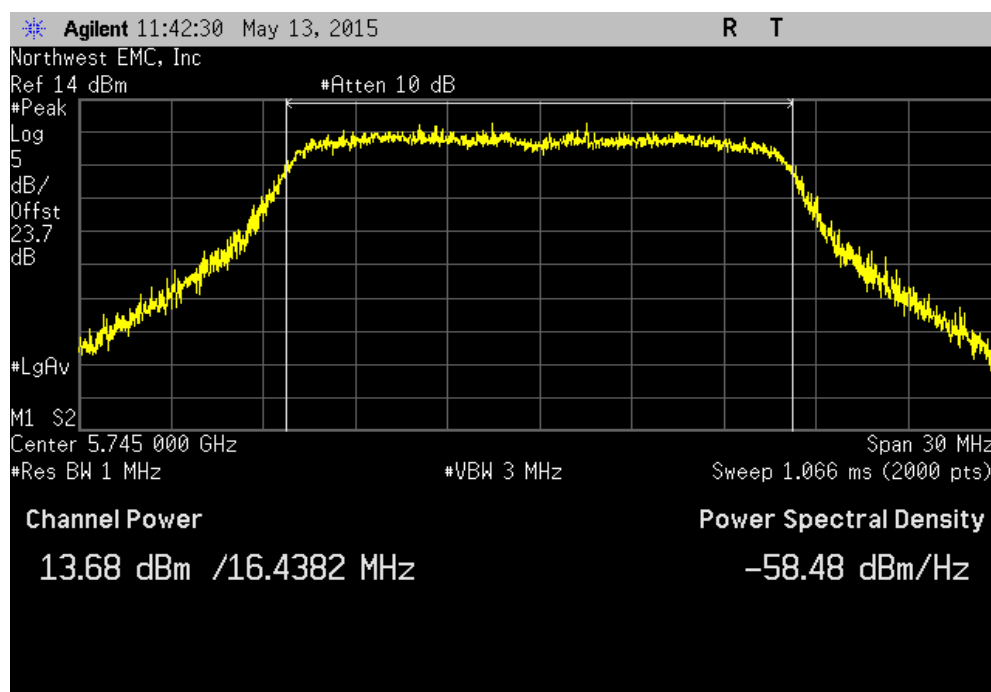


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 165, High Channel						
				Value	Limit (<)	Result
				13.028 dBm	30 dBm	Pass

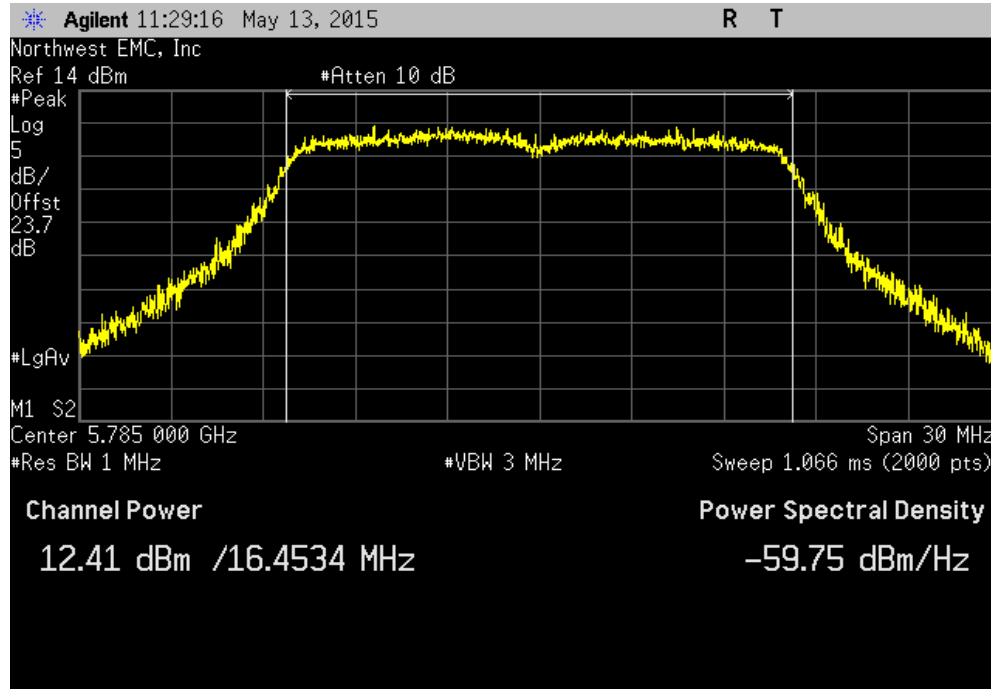


20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				13.678 dBm	30 dBm	Pass

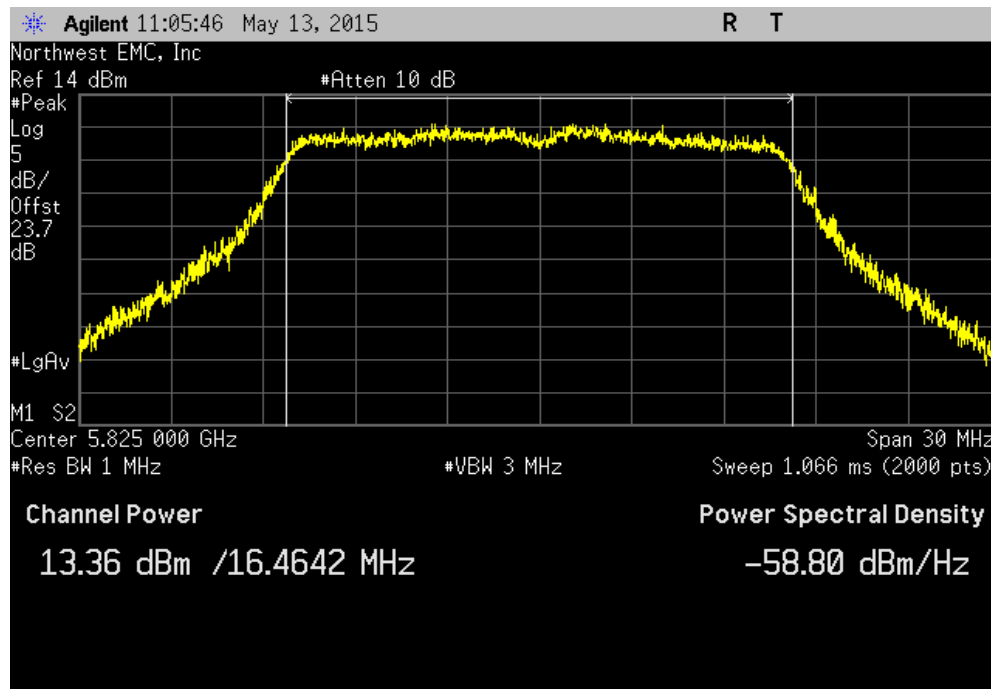


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				12.415 dBm	30 dBm	Pass

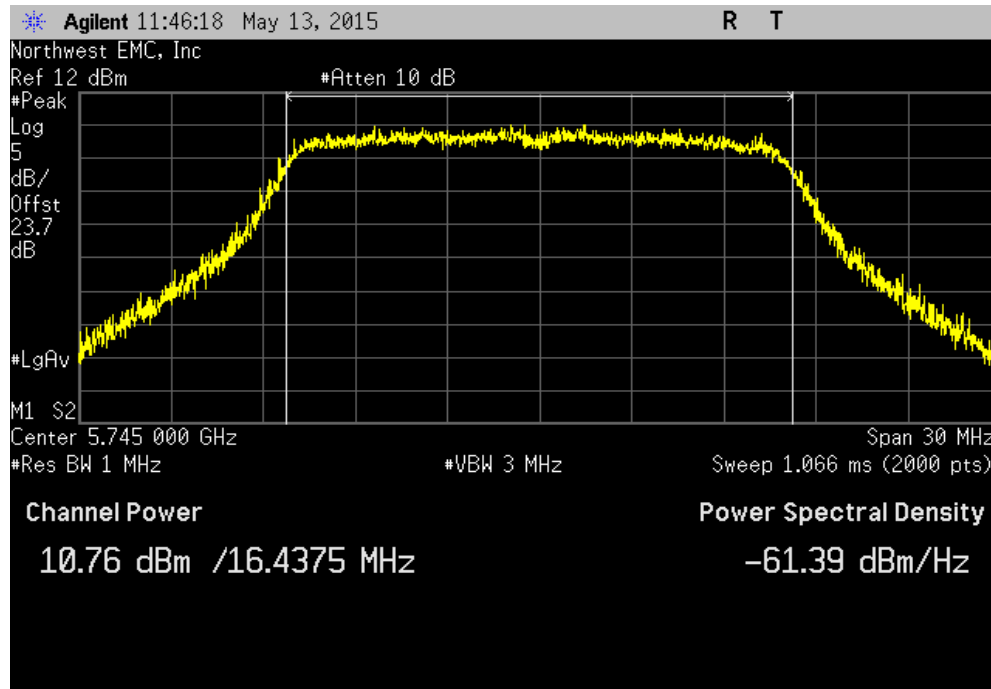


20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 165, High Channel						
				Value	Limit (<)	Result
				13.362 dBm	30 dBm	Pass

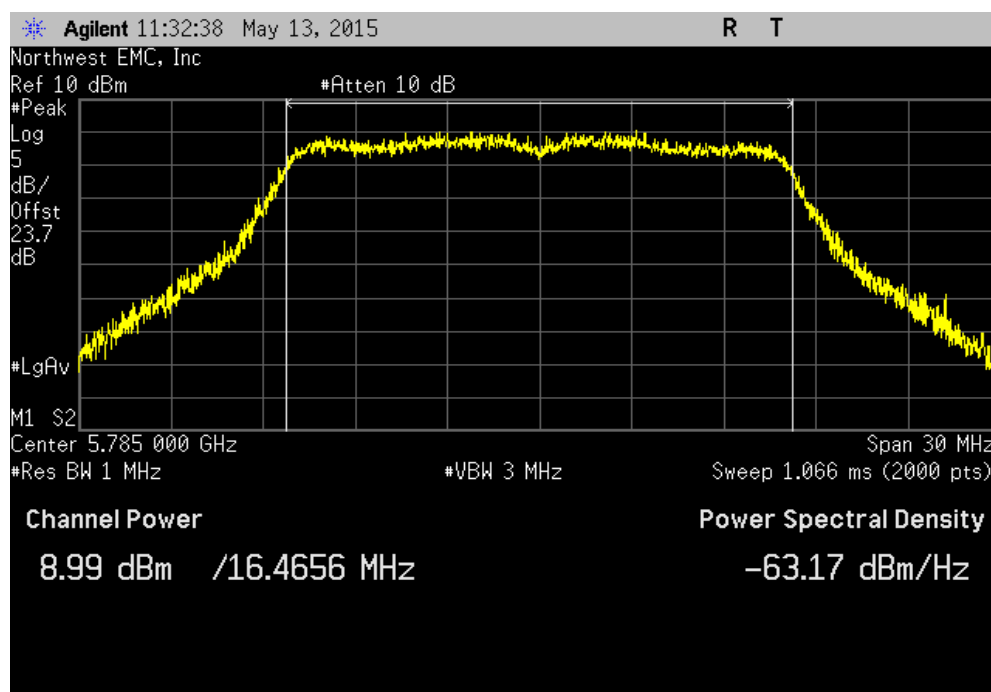


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.765 dBm	30 dBm	Pass

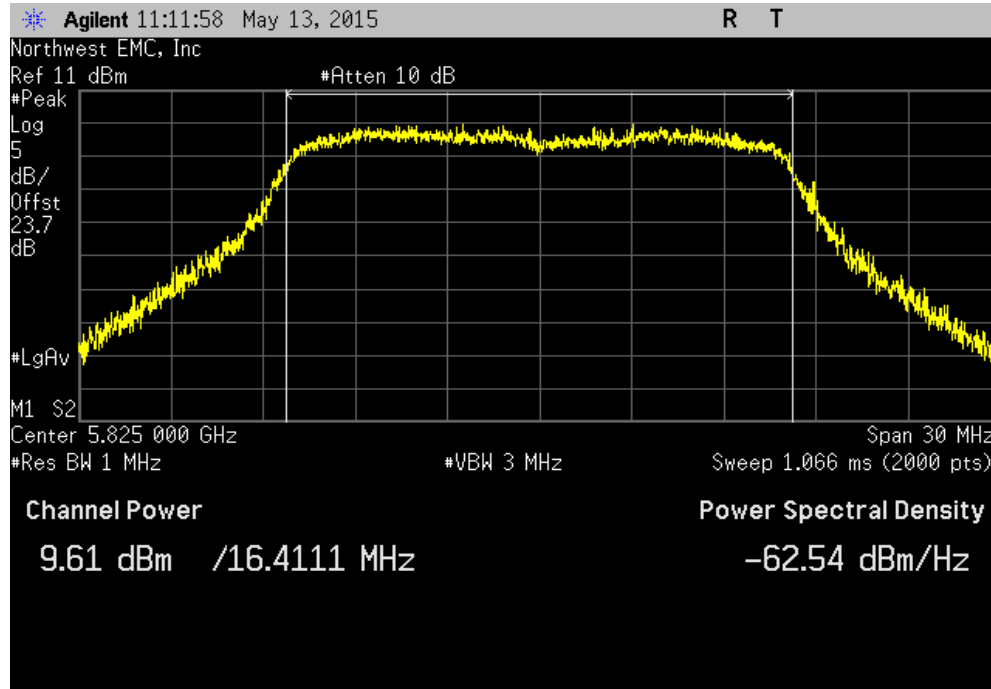


20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				8.995 dBm	30 dBm	Pass

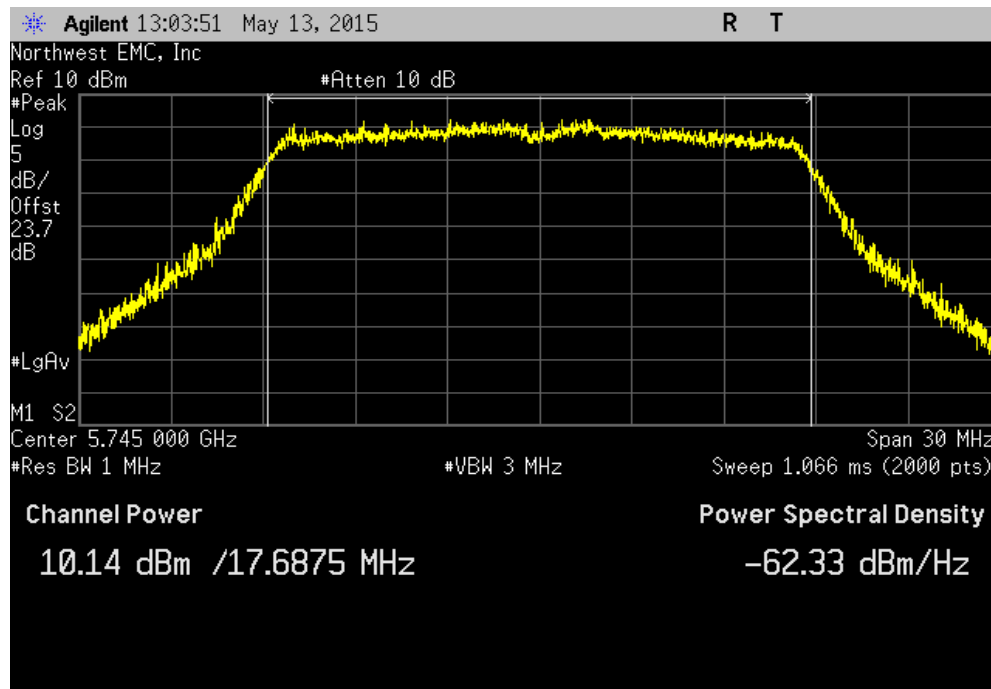


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 165, High Channel						
				Value	Limit (<)	Result
				9.614 dBm	30 dBm	Pass

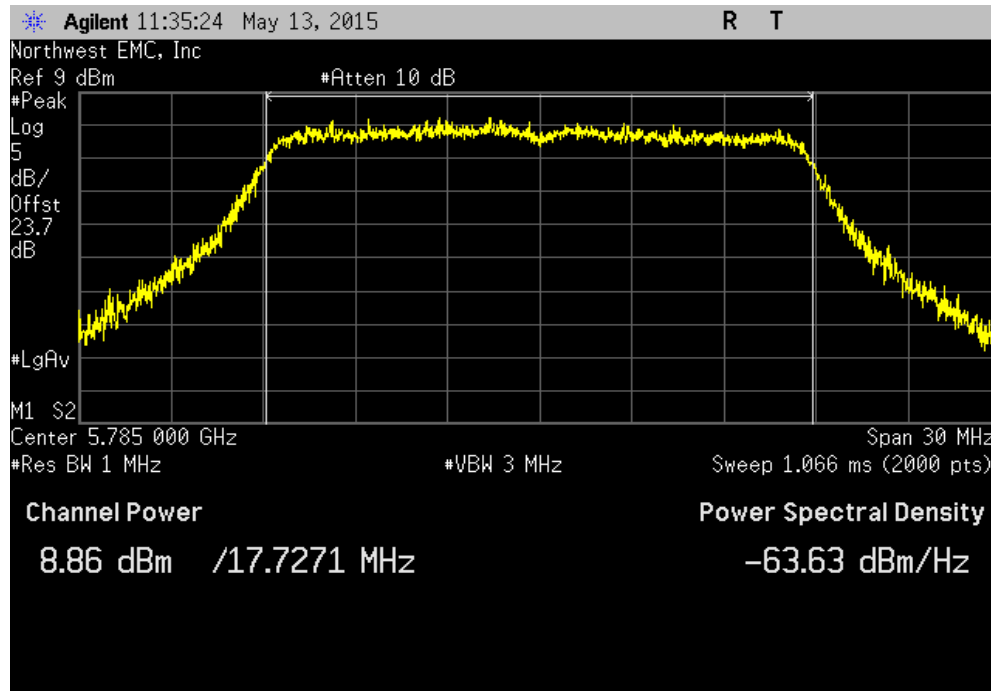


20 MHz, Chain C, 802.11(n) MCS0, Channel 149, Low Channel						
				Value	Limit (<)	Result
				10.143 dBm	30 dBm	Pass

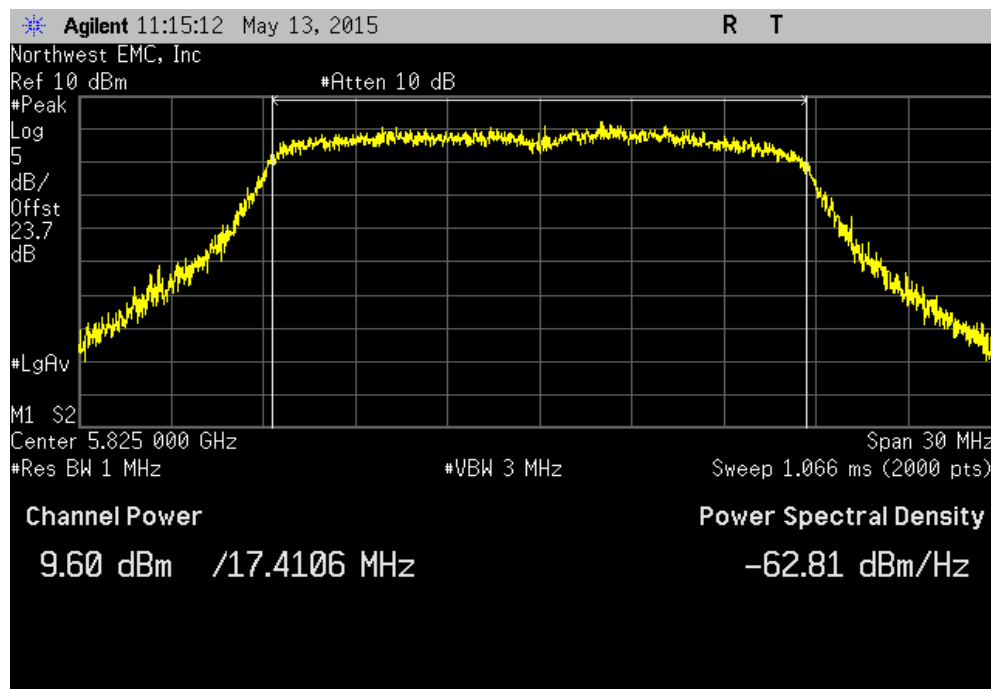


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS0, Channel 157, Mid Channel						
				Value	Limit (<)	Result
				8.861 dBm	30 dBm	Pass

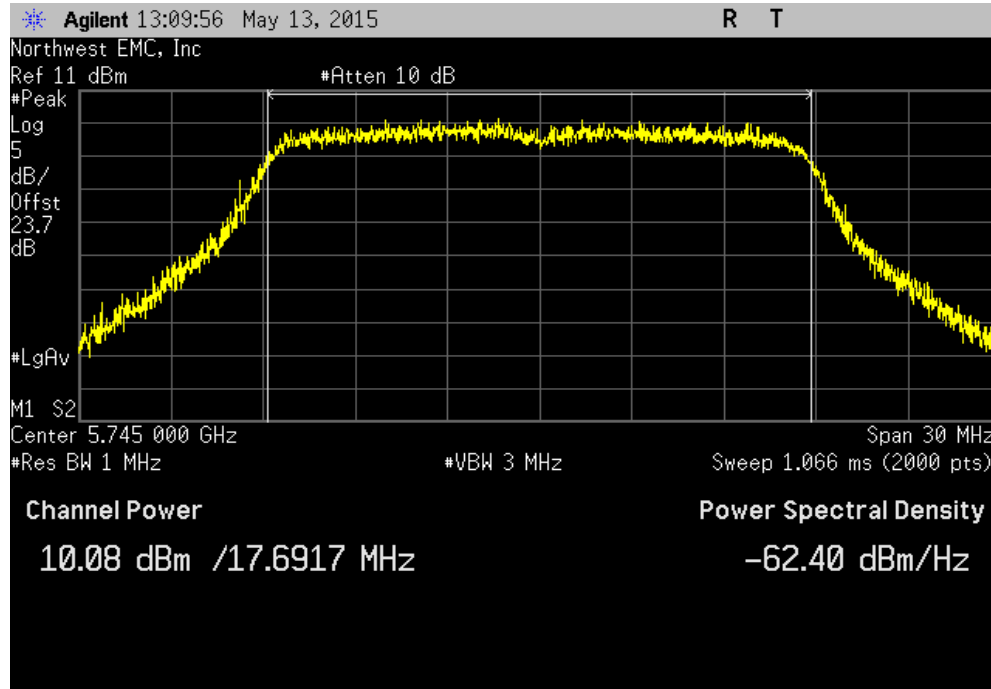


20 MHz, Chain C, 802.11(n) MCS0, Channel 165, High Channel						
				Value	Limit (<)	Result
				9.598 dBm	30 dBm	Pass

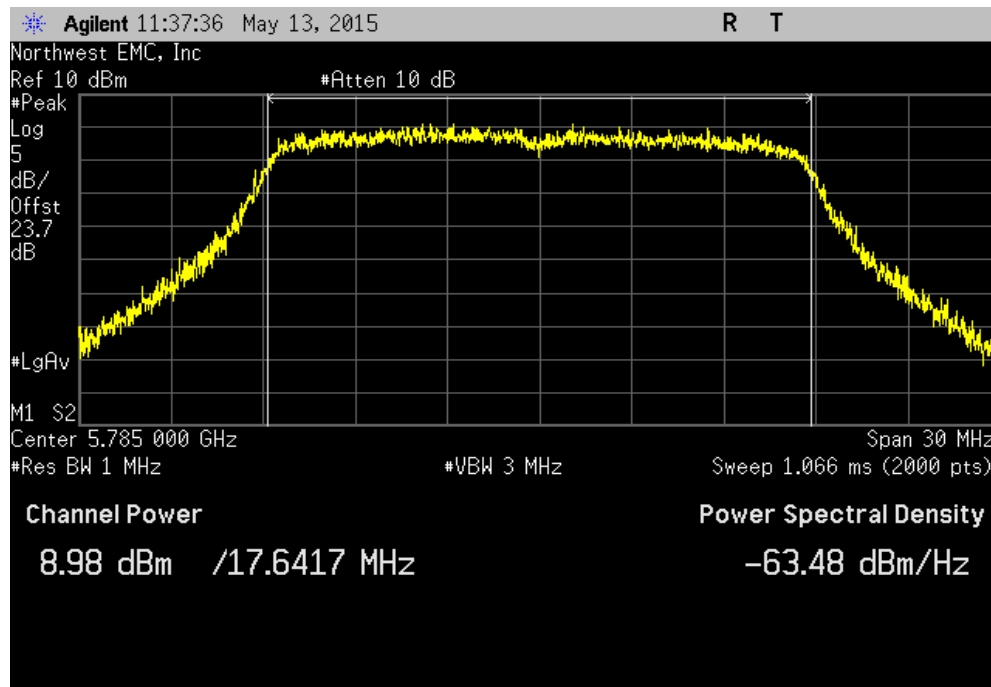


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS7, Channel 149, Low Channel						
				Value	Limit ($<$)	Result
				10.082 dBm	30 dBm	Pass

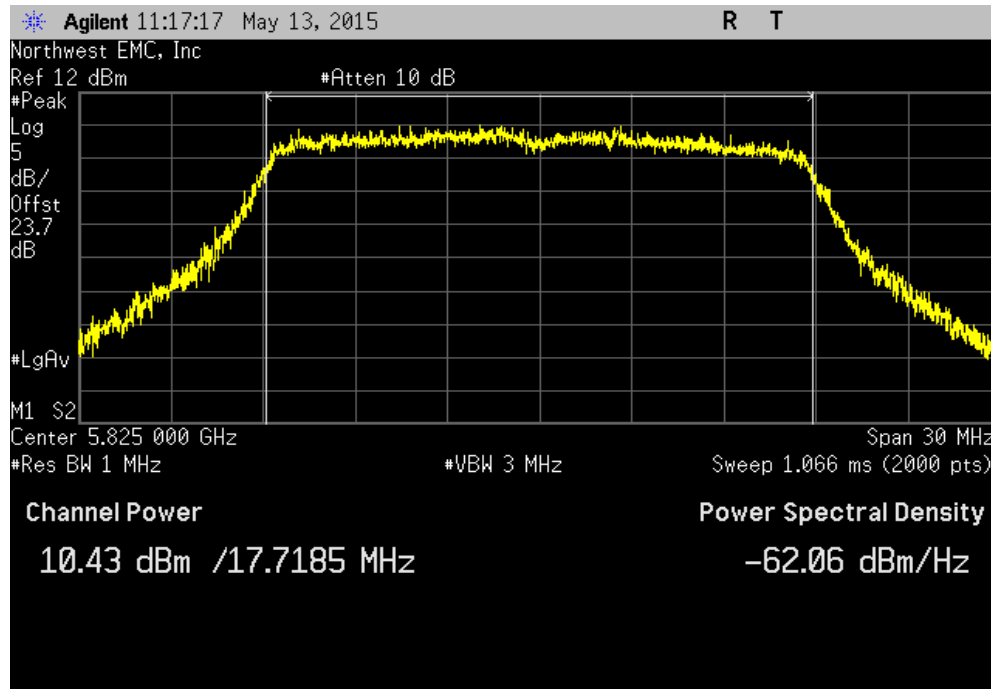


20 MHz, Chain C, 802.11(n) MCS7, Channel 157, Mid Channel						
				Value	Limit ($<$)	Result
				8.984 dBm	30 dBm	Pass

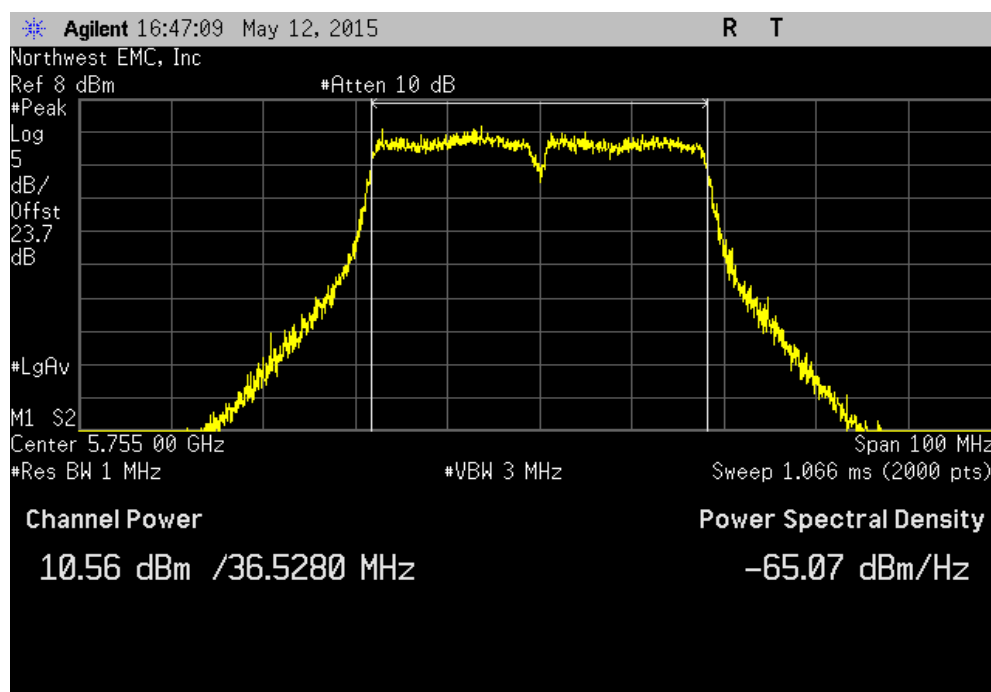


PEAK TRANSMIT POWER - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS7, Channel 165, High Channel						
				Value	Limit (<)	Result
				10.425 dBm	30 dBm	Pass

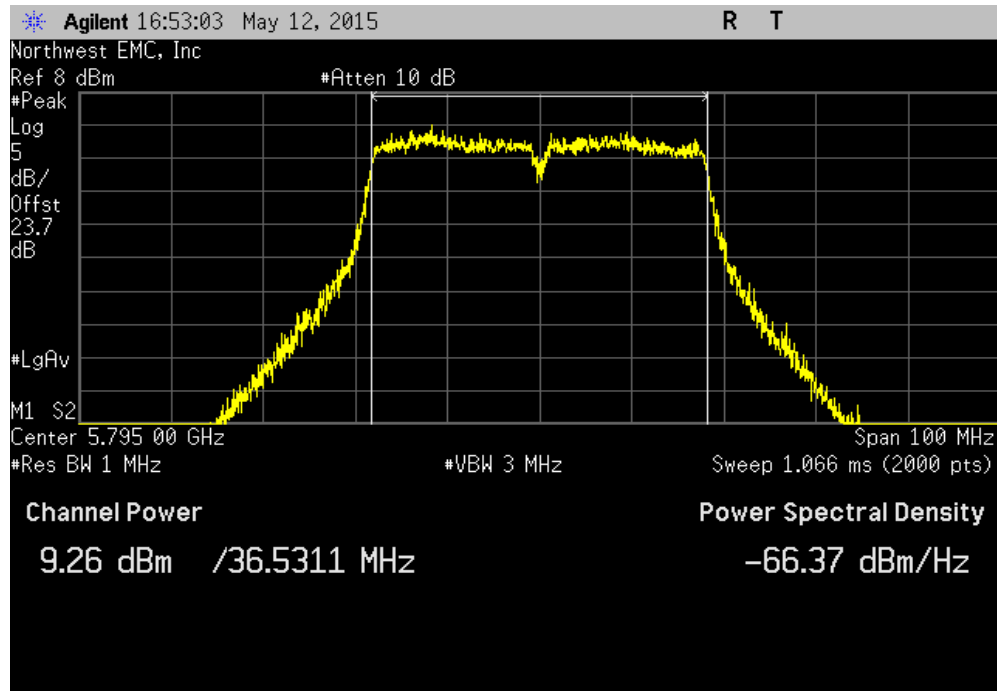


40 MHz, Chain A, 802.11(n) MCS0, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				10.556 dBm	30 dBm	Pass

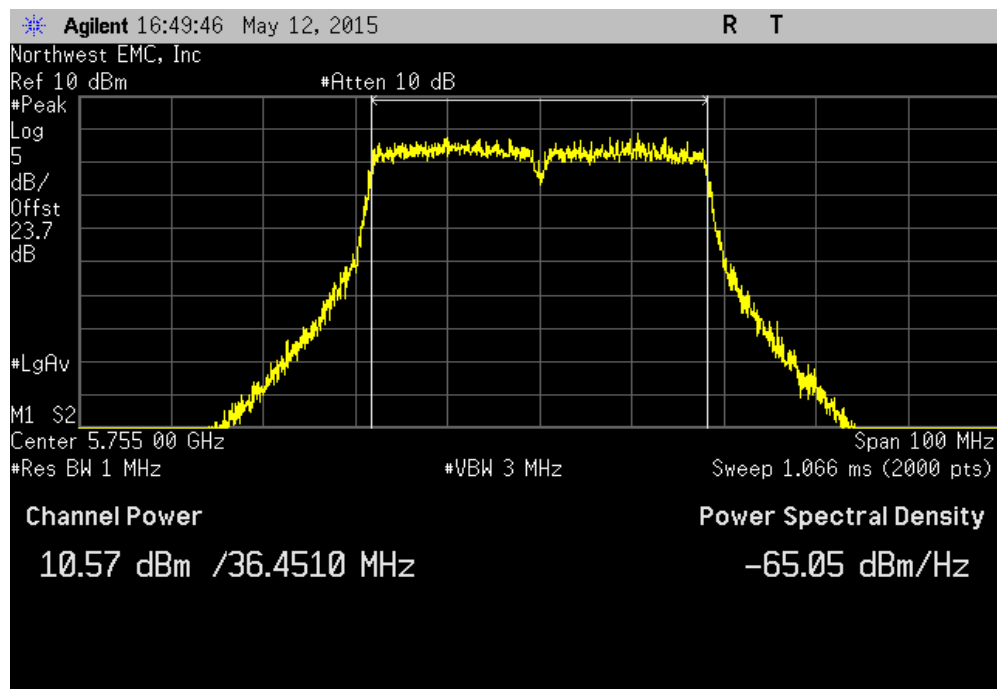


PEAK TRANSMIT POWER - 5.8GHz SINGLE

40 MHz, Chain A, 802.11(n) MCS0, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.259 dBm	30 dBm	Pass

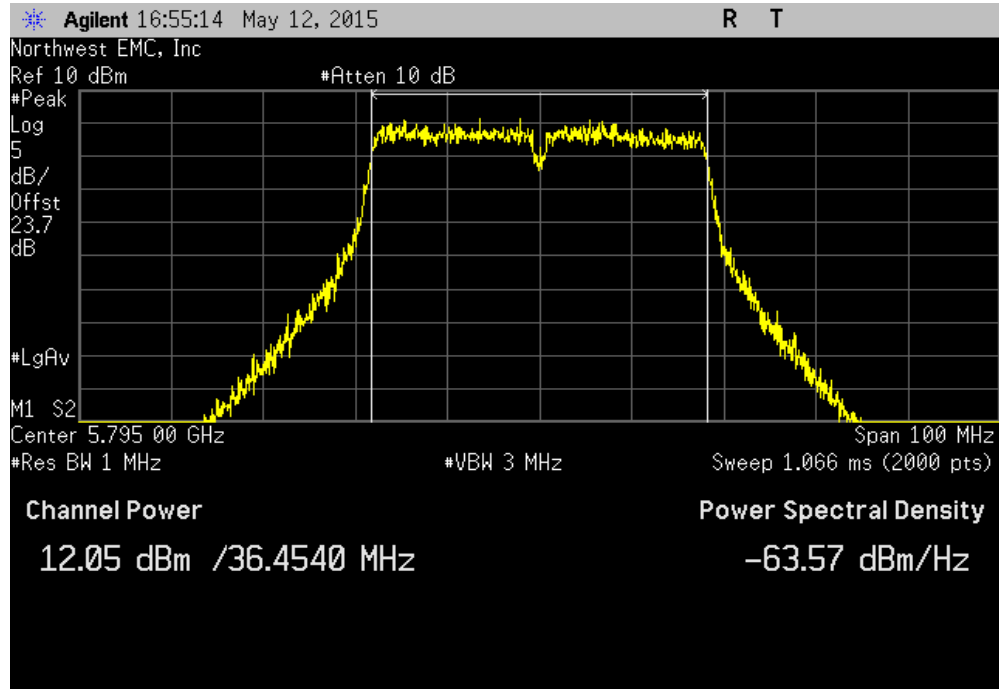


40 MHz, Chain A, 802.11(n) MCS7, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				10.571 dBm	30 dBm	Pass

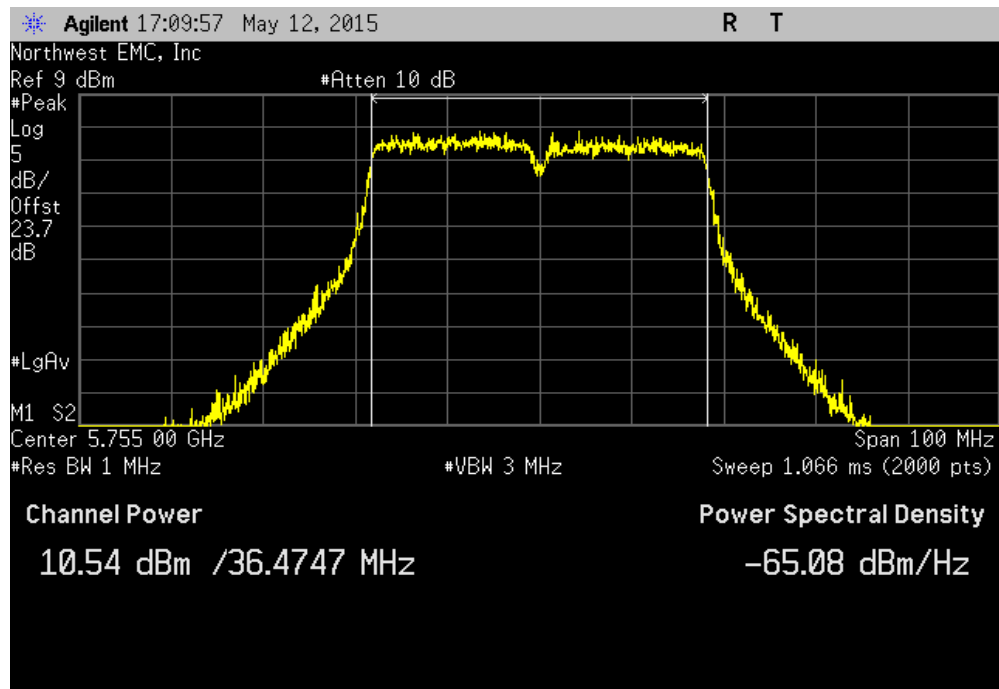


PEAK TRANSMIT POWER - 5.8GHz SINGLE

40 MHz, Chain A, 802.11(n) MCS7, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				12.048 dBm	30 dBm	Pass

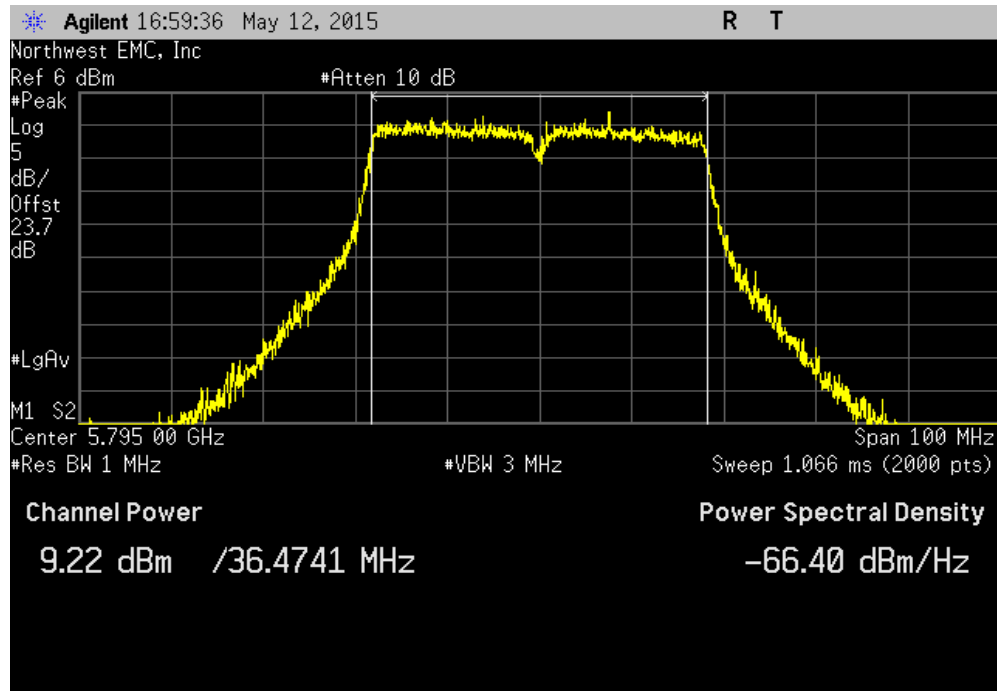


40 MHz, Chain B, 802.11(n) MCS0, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				10.542 dBm	30 dBm	Pass

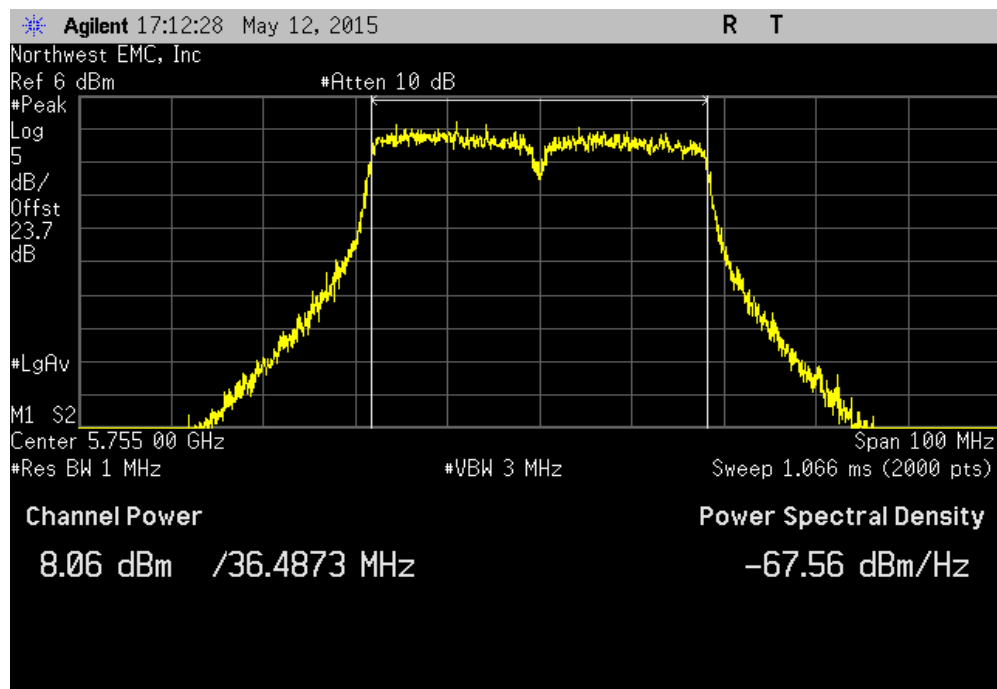


PEAK TRANSMIT POWER - 5.8GHz SINGLE

40 MHz, Chain B, 802.11(n) MCS0, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.22 dBm	30 dBm	Pass

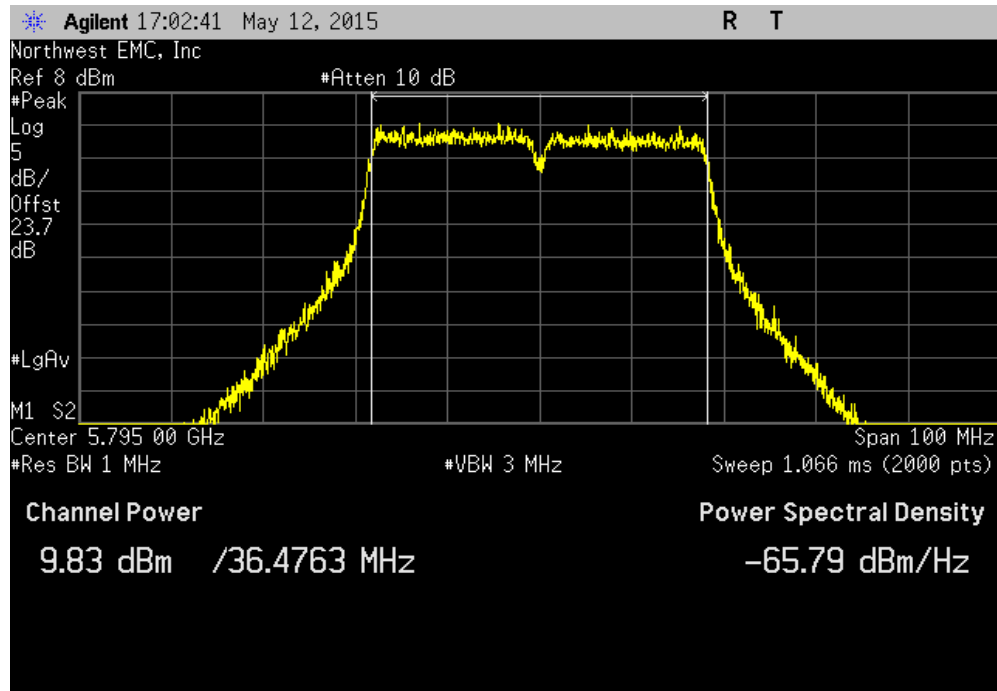


40 MHz, Chain B, 802.11(n) MCS7, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				8.057 dBm	30 dBm	Pass

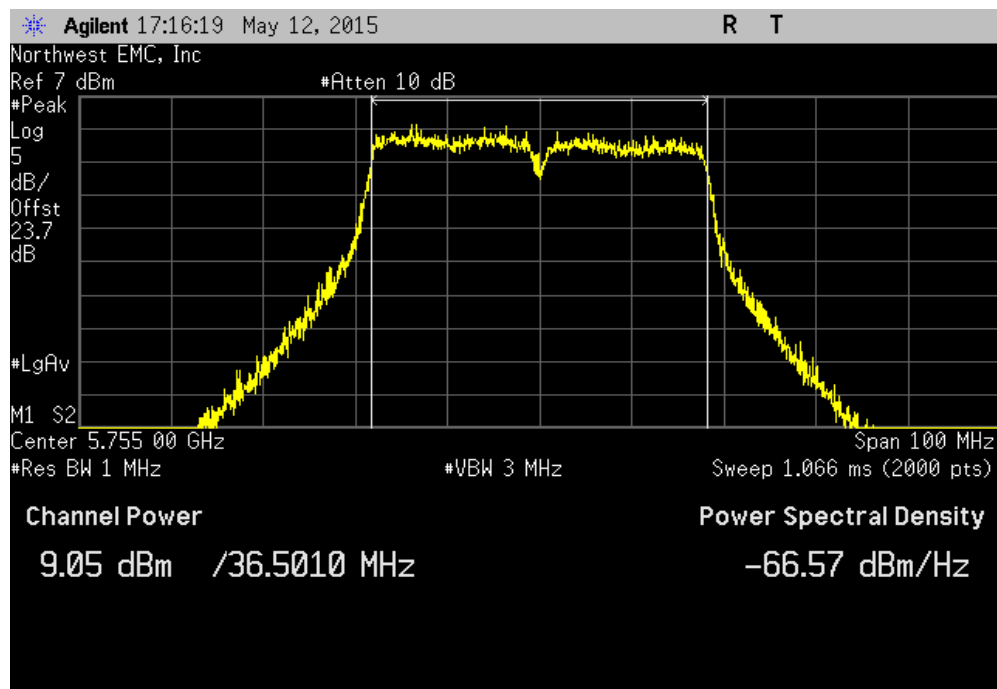


PEAK TRANSMIT POWER - 5.8GHz SINGLE

40 MHz, Chain B, 802.11(n) MCS7, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.833 dBm	30 dBm	Pass

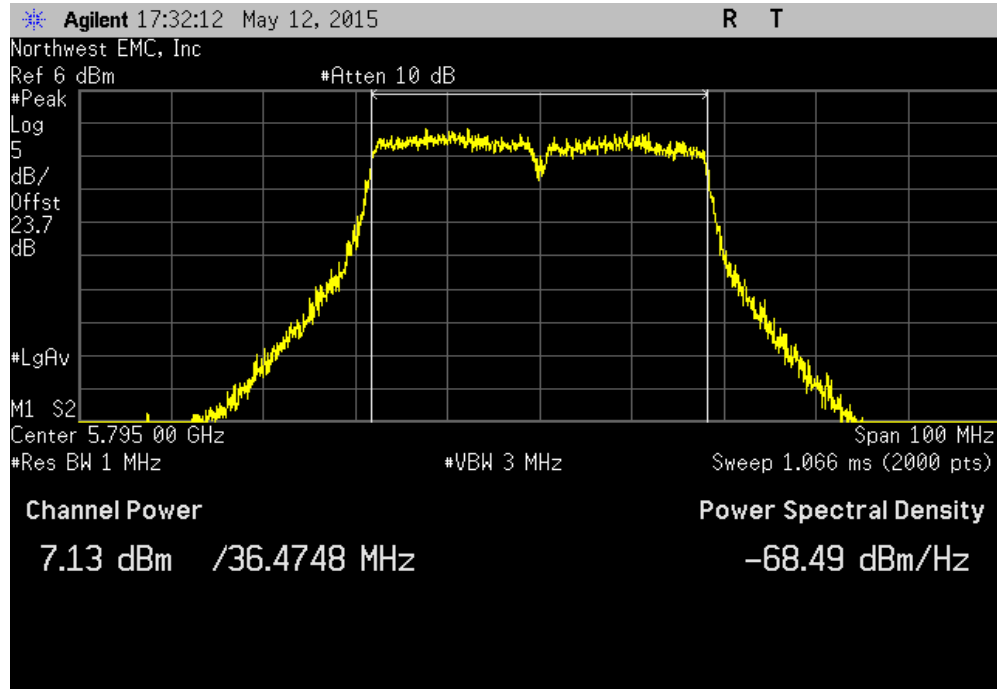


40 MHz, Chain C, 802.11(n) MCS0, Channel 149/153, Low Channel						
				Value	Limit (<)	Result
				9.05 dBm	30 dBm	Pass

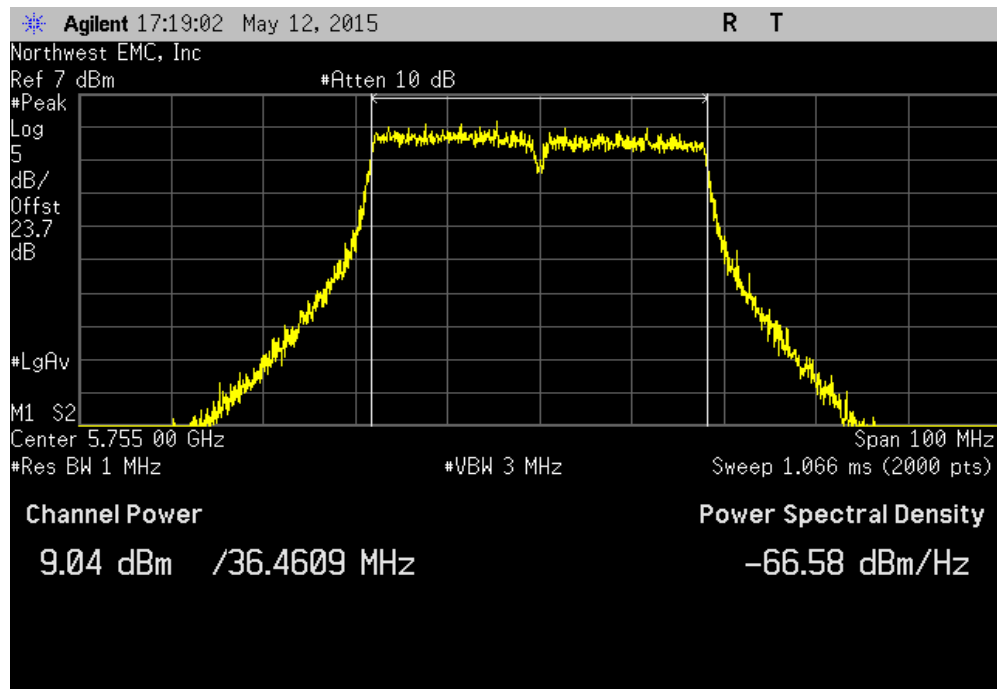


PEAK TRANSMIT POWER - 5.8GHz SINGLE

40 MHz, Chain C, 802.11(n) MCS0, Channel 157/161, High Channel						
				Value	Limit ($<$)	Result
				7.127 dBm	30 dBm	Pass

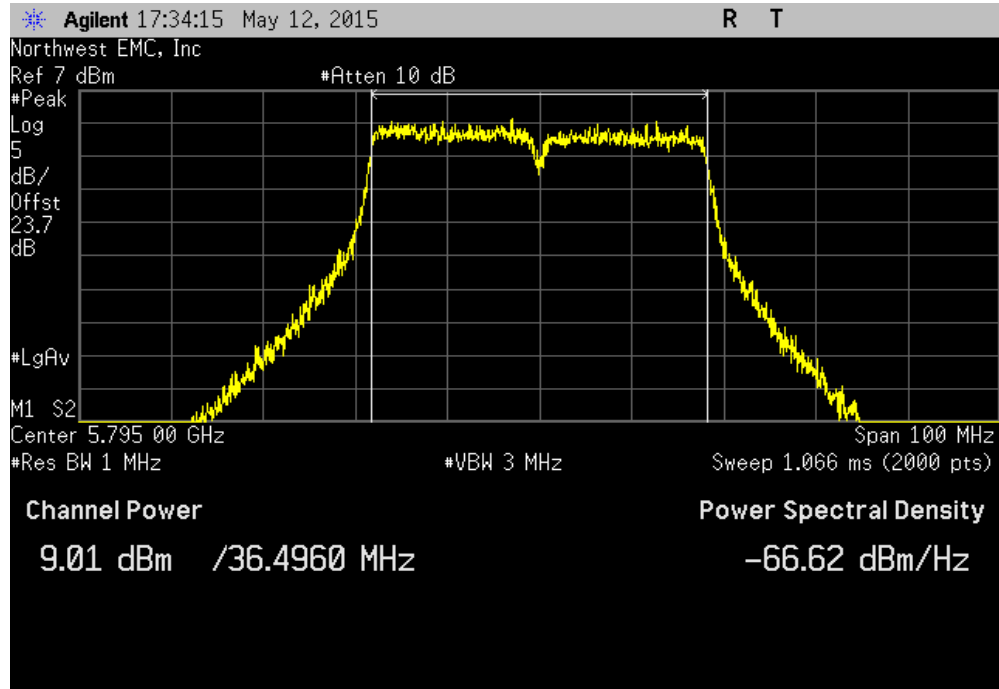


40 MHz, Chain C, 802.11(n) MCS7, Channel 149/153, Low Channel						
				Value	Limit ($<$)	Result
				9.036 dBm	30 dBm	Pass



PEAK TRANSMIT POWER - 5.8GHz SINGLE

40 MHz, Chain C, 802.11(n) MCS7, Channel 157/161, High Channel						
				Value	Limit (<)	Result
				9.007 dBm	30 dBm	Pass



PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI



XMit 2015.01.14

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator, 20dB	Fairview Microwave	SA18E-10	TKS	4/8/2015	12
40GHz DC Block	Fairview Microwave	SD3379	AMN	4/8/2015	12
Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01 Section F was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The data rate(s) listed in the datasheet were tested. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak power spectral density, the transmission pulse duration (T) was measured. The transmission pulse duration and the associated data are found elsewhere in this test report.

The spectrum analyzer settings were as follows:

- The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- Sample detector was used because Method SA-1 Alternate was used to measure the Maximum Conducted Output Power.
- Trace average 100 traces in power averaging mode (not video averaging).

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of power averaging (not video averaging).

PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

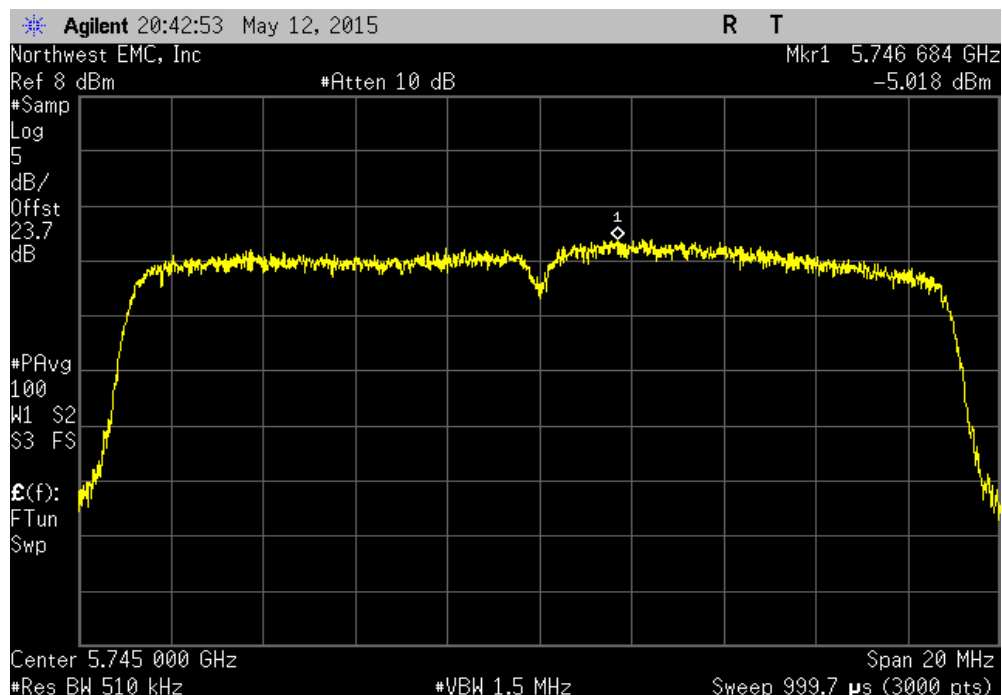


XMit 2015.01.14

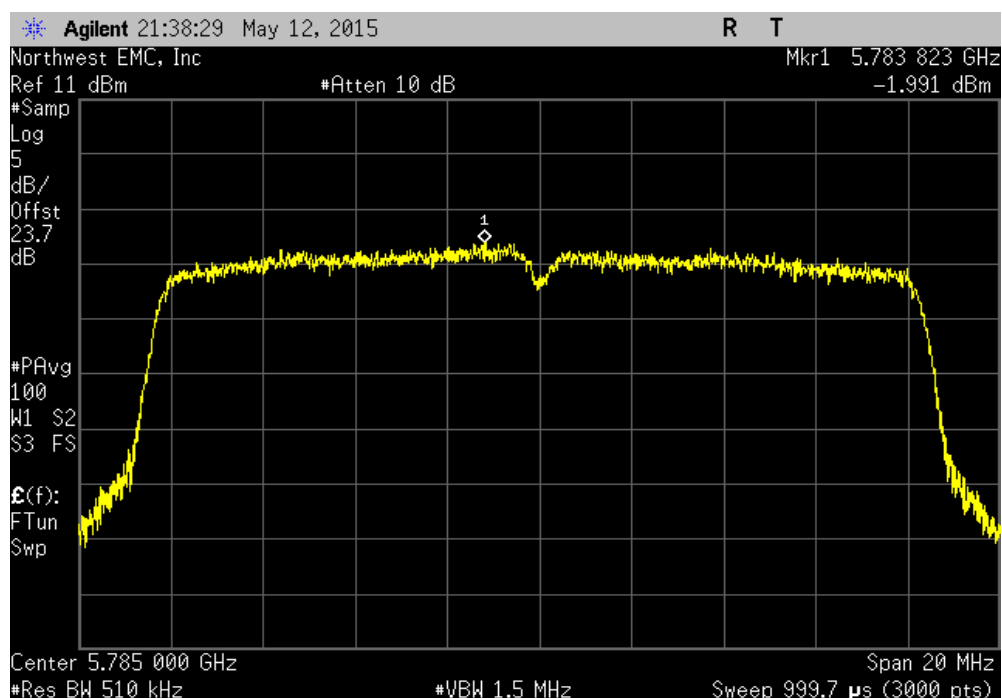
EUT: RLX2-IHNF			Work Order: PROS0221		
Serial Number: 000D8DF095CE			Date: 05/11/15		
Customer: ProSoft Technology, Inc.			Temperature: 20.5°C		
Attendees: None			Humidity: 44%		
Project: None			Barometric Pres.: 1015		
Tested by: Johnny Candelas			Power: 120V/60Hz		
TEST SPECIFICATIONS			Test Method		
FCC 15.407-2015			ANSI C63.10-2009		
COMMENTS					
Offset 23.67dB (DC Block+20dB Attenuator+Coax Cable) for 5.8GHz					
Power Setting - Max					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	1	Signature 			
			Value	Limit	
			(dBm / MHz)	(dBm / Ref BW)	Results
20 MHz					
Chain A					
802.11(n) MCS8					
Channel 149, Low Channel			-5.018	30	Pass
Channel 157, Mid Channel			-1.991	30	Pass
Channel 165, High Channel			-4.984	30	Pass
802.11(n) MCS15					
Channel 149, Low Channel			-1.948	30	Pass
Channel 157, Mid Channel			-3.742	30	Pass
Channel 165, High Channel			-2.954	30	Pass
Chain B					
802.11(n) MCS8					
Channel 149, Low Channel			-5.015	30	Pass
Channel 157, Mid Channel			-5.45	30	Pass
Channel 165, High Channel			-3.556	30	Pass
802.11(n) MCS15					
Channel 149, Low Channel			-5.048	30	Pass
Channel 157, Mid Channel			-5.94	30	Pass
Channel 165, High Channel			-3.312	30	Pass
Chain C					
802.11(n) MCS8					
Channel 149, Low Channel			-4.726	30	Pass
Channel 157, Mid Channel			-6.175	30	Pass
Channel 165, High Channel			-5.684	30	Pass
802.11(n) MCS15					
Channel 149, Low Channel			-5.197	30	Pass
Channel 157, Mid Channel			-5.931	30	Pass
Channel 165, High Channel			-4.56	30	Pass
Power Summing, 20 MHz					
Chain A					
802.11(n) MCS8			Value	Summing	Summed
			(dBm / MHz)	Factor	Value
				(dBm)	(dBm / MHz)
					Limit
					(dBm / MHz)
					Result
Channel 149, Low Channel			-5.018	3	-2.0
Channel 157, Mid Channel			-1.991	3	1.0
Channel 165, High Channel			-4.984	3	-2.0
802.11(n) MCS15					
Channel 149, Low Channel			-1.948	3	1.1
Channel 157, Mid Channel			-3.742	3	-0.7
Channel 165, High Channel			-2.954	3	0.0
Chain B					
802.11(n) MCS8					
Channel 149, Low Channel			-5.015	3	-2.0
Channel 157, Mid Channel			-5.45	3	-2.5
Channel 165, High Channel			-3.556	3	-0.6
802.11(n) MCS15					
Channel 149, Low Channel			-5.048	3	-2.0
Channel 157, Mid Channel			-5.94	3	-2.9
Channel 165, High Channel			-3.312	3	-0.3
Chain C					
802.11(n) MCS8					
Channel 149, Low Channel			-4.726	3	-1.7
Channel 157, Mid Channel			-6.175	3	-3.2
Channel 165, High Channel			-5.684	3	-2.7
802.11(n) MCS15					
Channel 149, Low Channel			-5.197	3	-2.2
Channel 157, Mid Channel			-5.931	3	-2.9
Channel 165, High Channel			-4.56	3	-1.6
40 MHz					
Chain A					
802.11(n) MCS8					
Channel 149/153, Low Channel			-7.549	30	Pass
Channel 157/161, High Channel			-8.937	30	Pass
802.11(n) MCS15					
Channel 149/153, Low Channel			-7.411	30	Pass
Channel 157/161, High Channel			-6.202	30	Pass
Chain B					
802.11(n) MCS8					
Channel 149/153, Low Channel			-7.959	30	Pass
Channel 157/161, High Channel			-9.056	30	Pass
802.11(n) MCS15					
Channel 149/153, Low Channel			-10.26	30	Pass
Channel 157/161, High Channel			-8.55	30	Pass
Chain C					
802.11(n) MCS8					
Channel 149/153, Low Channel			-8.91	30	Pass
Channel 157/161, High Channel			-10.735	30	Pass
802.11(n) MCS15					
Channel 149/153, Low Channel			-9.29	30	Pass
Channel 157/161, High Channel			-9.222	30	Pass
Power Summing, 40 MHz					
Chain A					
802.11(n) MCS8			Value	Summing	Summed
			(dBm / MHz)	Factor	Value
				(dBm)	(dBm / MHz)
					Limit
					(dBm / MHz)
					Result
Channel 149/153, Low Channel			-7.549	3	-4.5
Channel 157/161, High Channel			-8.937	3	-5.9
802.11(n) MCS15					
Channel 149/153, Low Channel			-7.411	3	-4.4
Channel 157/161, High Channel			-6.202	3	-3.2
Chain B					
802.11(n) MCS8					
Channel 149/153, Low Channel			-7.959	3	-5.0
Channel 157/161, High Channel			-9.056	3	-6.1
802.11(n) MCS15					
Channel 149/153, Low Channel			-10.26	3	-7.3
Channel 157/161, High Channel			-8.55	3	-5.6
Chain C					
802.11(n) MCS8					
Channel 149/153, Low Channel			-8.91	3	-5.9
Channel 157/161, High Channel			-10.735	3	-7.7
802.11(n) MCS15					
Channel 149/153, Low Channel			-9.29	3	-6.3
Channel 157/161, High Channel			-9.222	3	-6.2

PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

20 MHz, Chain A, 802.11(n) MCS8, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.018	30	Pass			

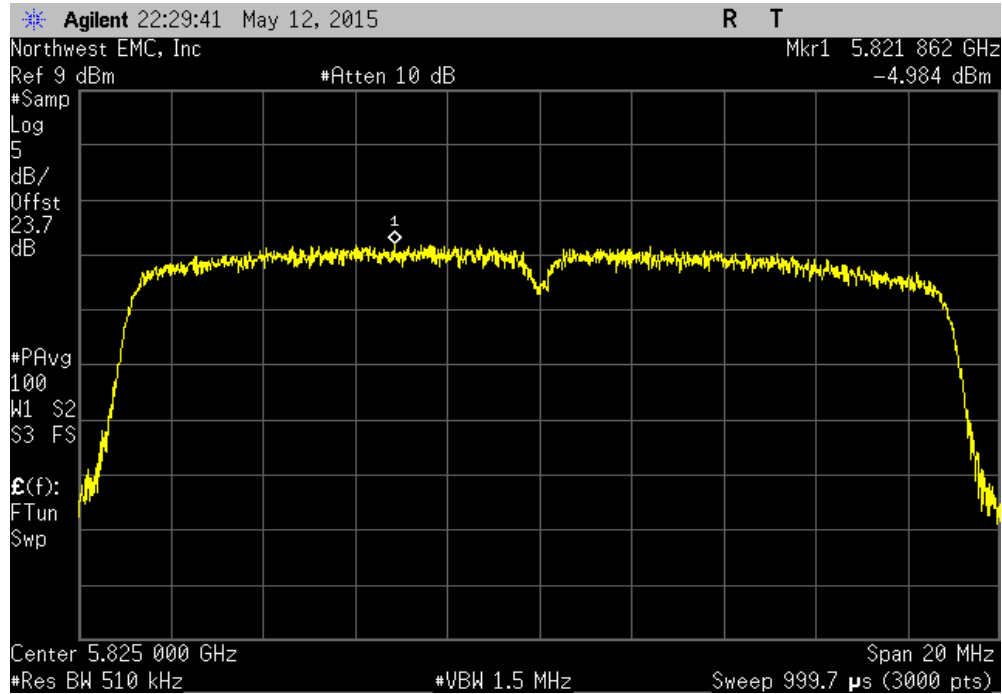


20 MHz, Chain A, 802.11(n) MCS8, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.991	30	Pass			

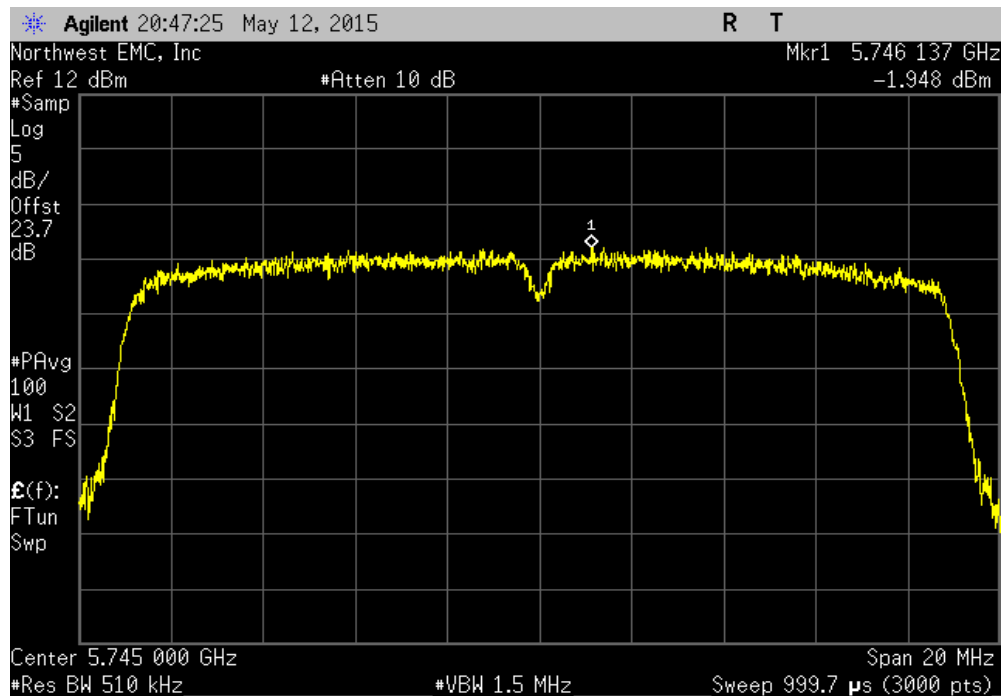


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

20 MHz, Chain A, 802.11(n) MCS8, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-4.984	30	Pass			

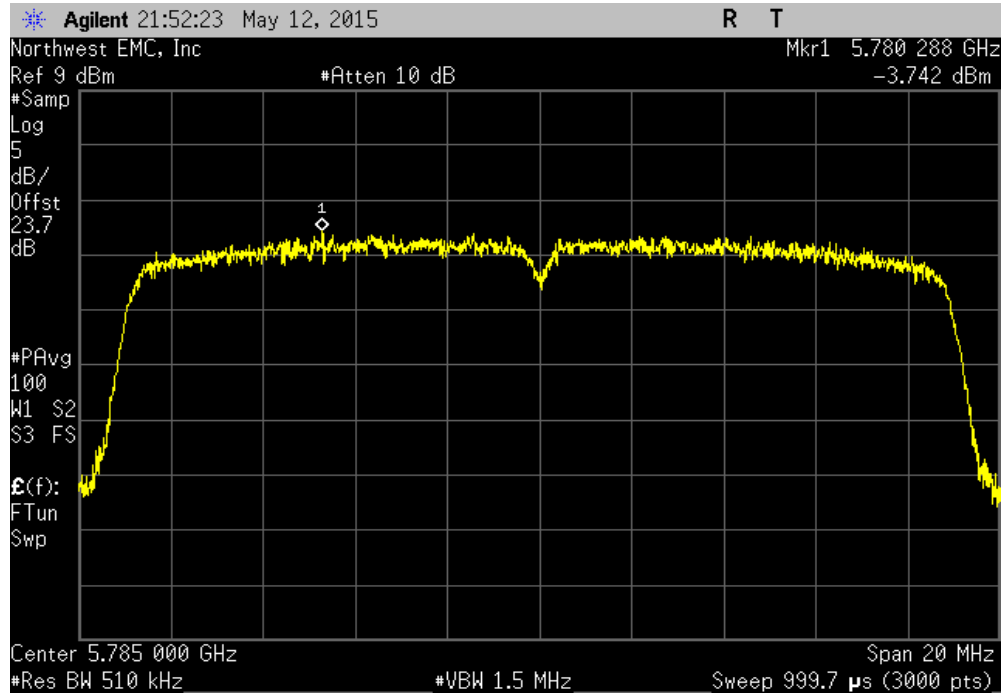


20 MHz, Chain A, 802.11(n) MCS15, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.948	30	Pass			

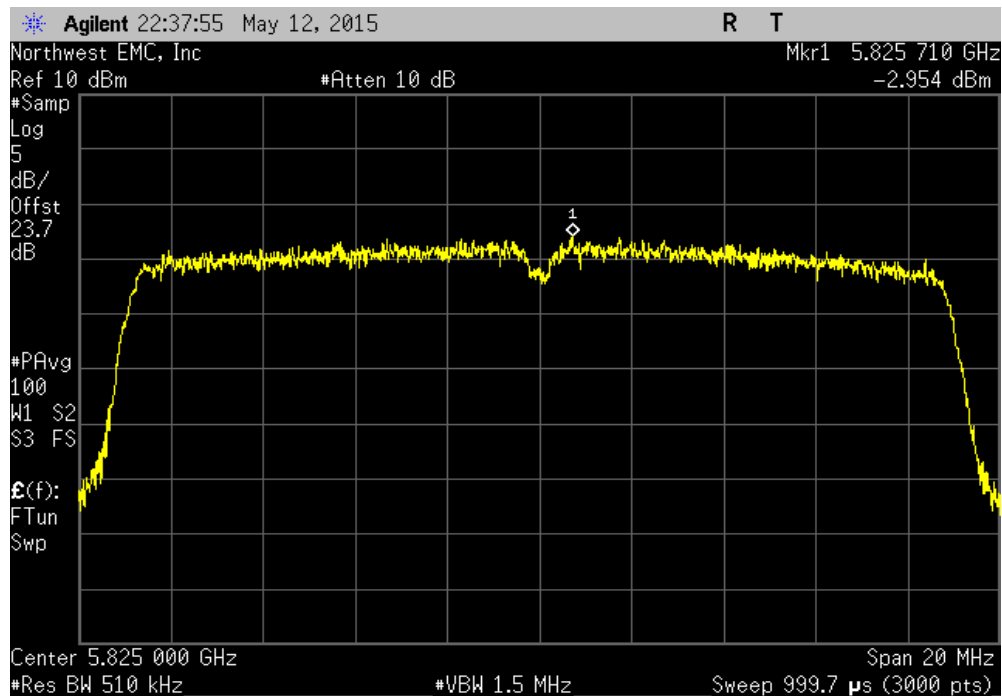


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

20 MHz, Chain A, 802.11(n) MCS15, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-3.742	30	Pass			

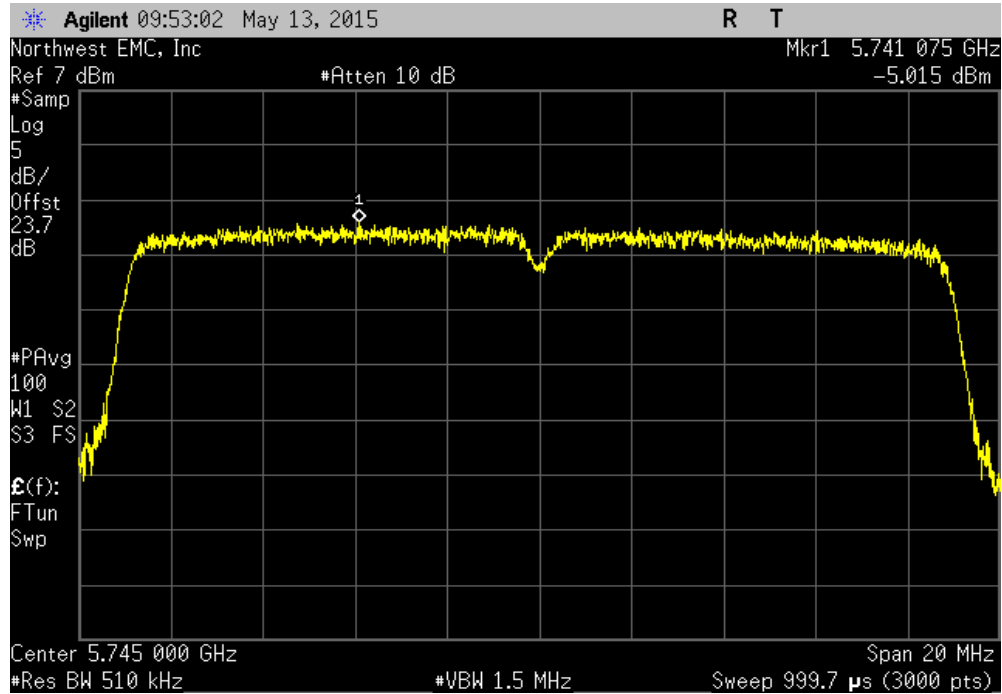


20 MHz, Chain A, 802.11(n) MCS15, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-2.954	30	Pass			

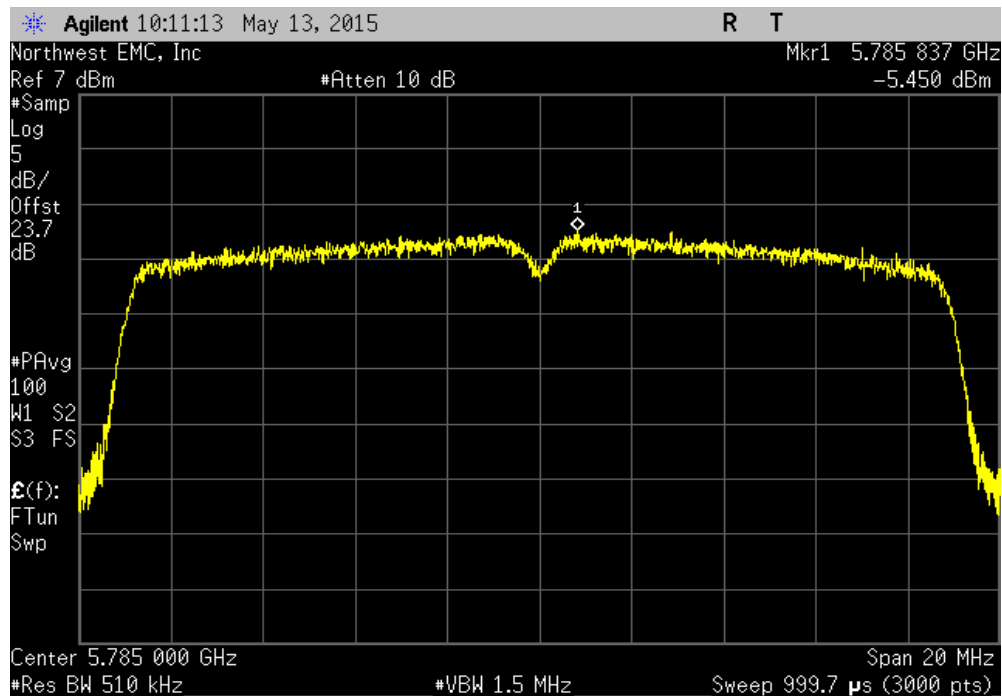


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

20 MHz, Chain B, 802.11(n) MCS8, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.015	30	Pass			



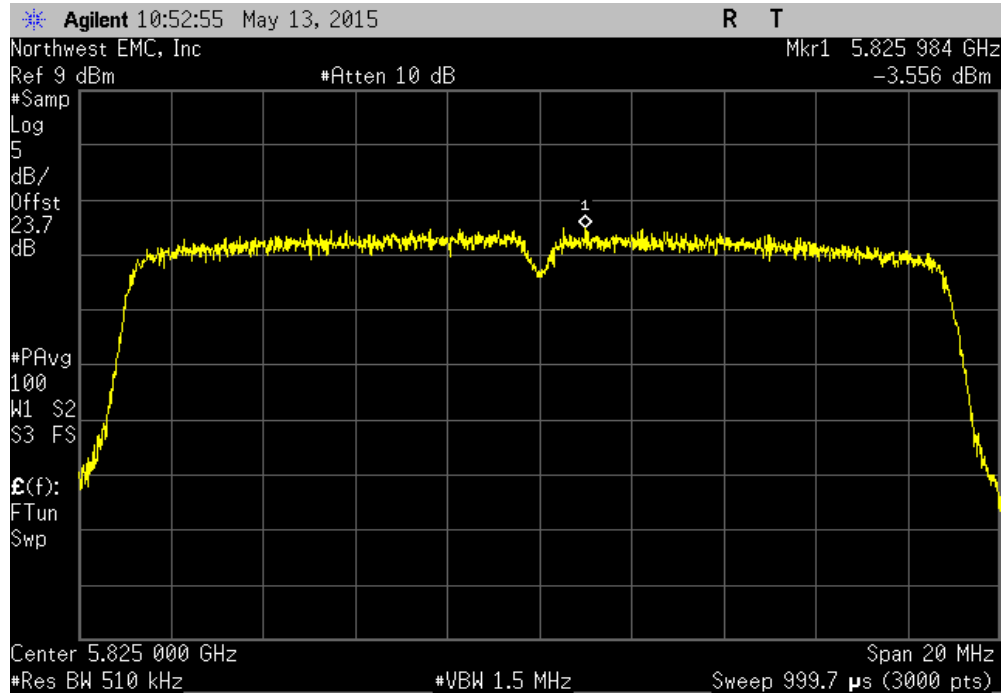
20 MHz, Chain B, 802.11(n) MCS8, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.45	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

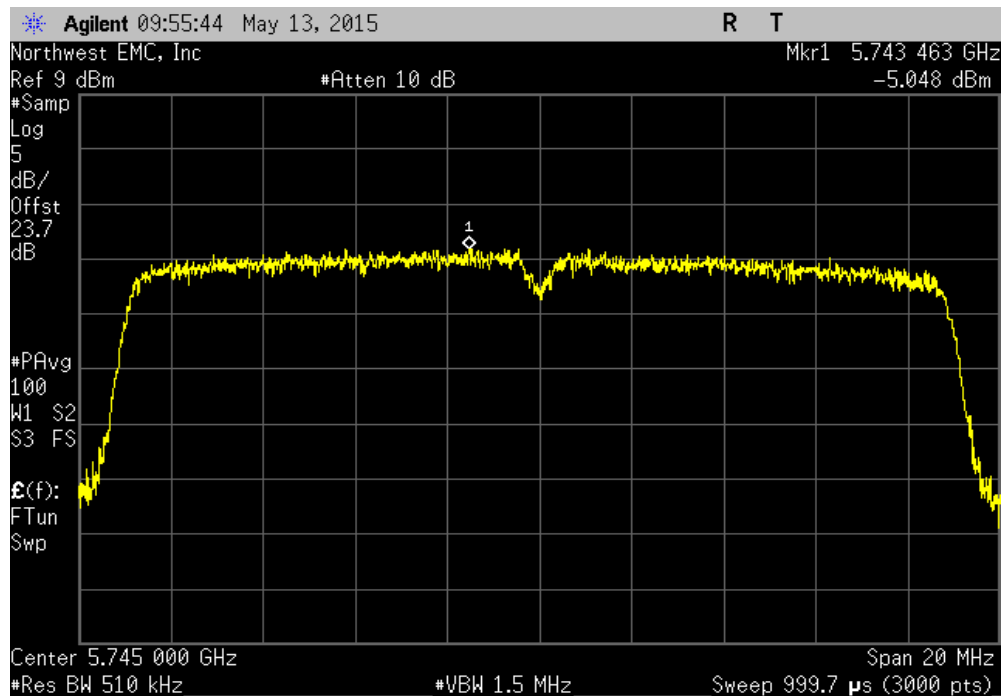
20 MHz, Chain B, 802.11(n) MCS8, Channel 165, High Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-3.556	30	Pass



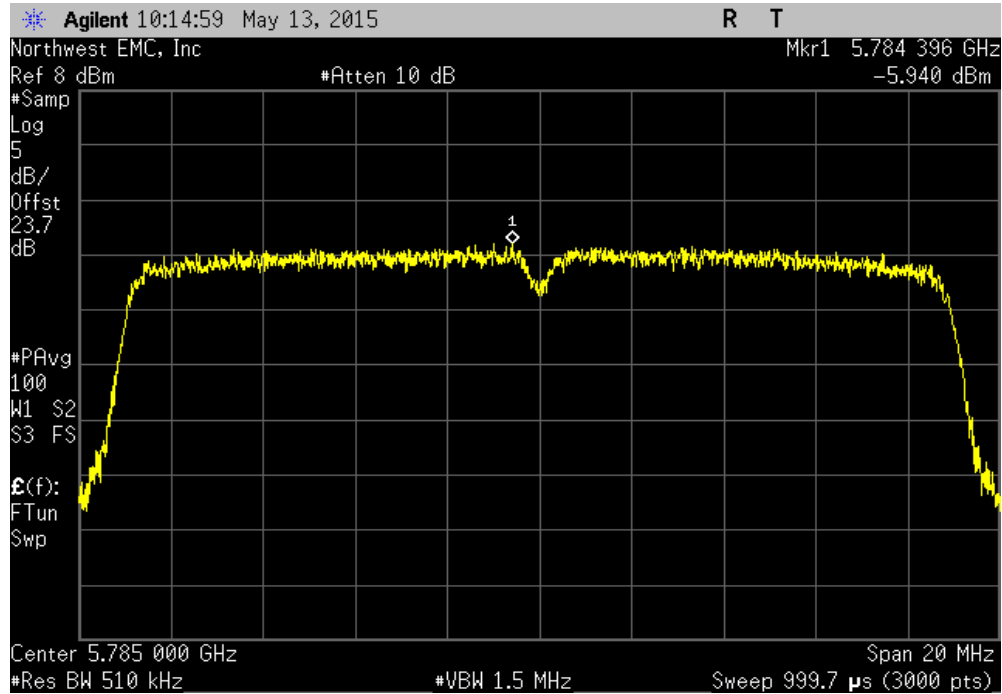
20 MHz, Chain B, 802.11(n) MCS15, Channel 149, Low Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-5.048	30	Pass

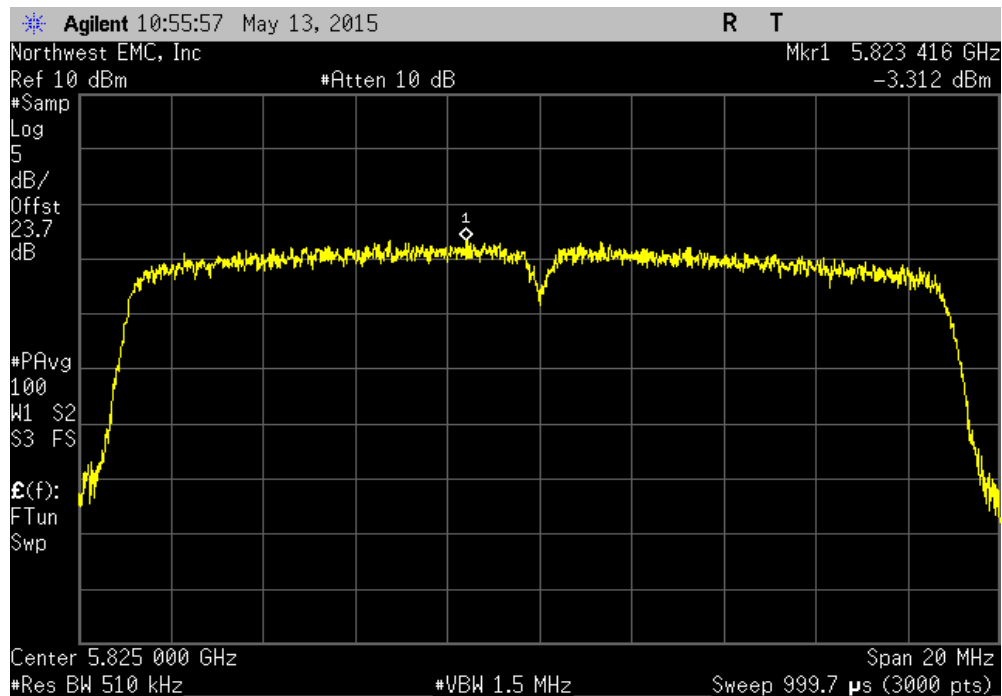


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

20 MHz, Chain B, 802.11(n) MCS15, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.94	30	Pass			

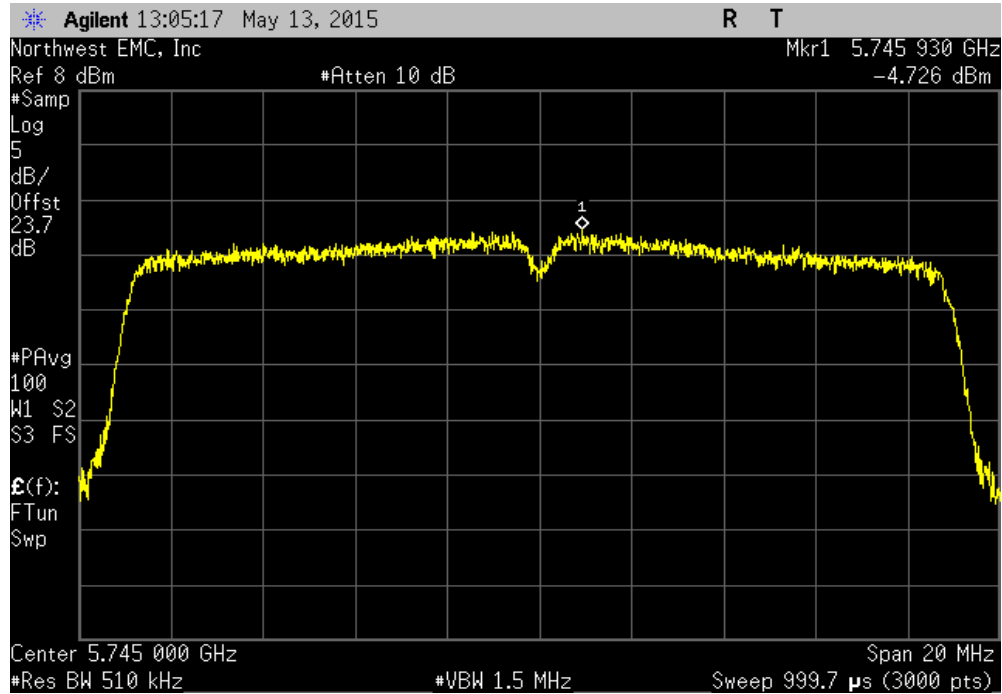


20 MHz, Chain B, 802.11(n) MCS15, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-3.312	30	Pass			

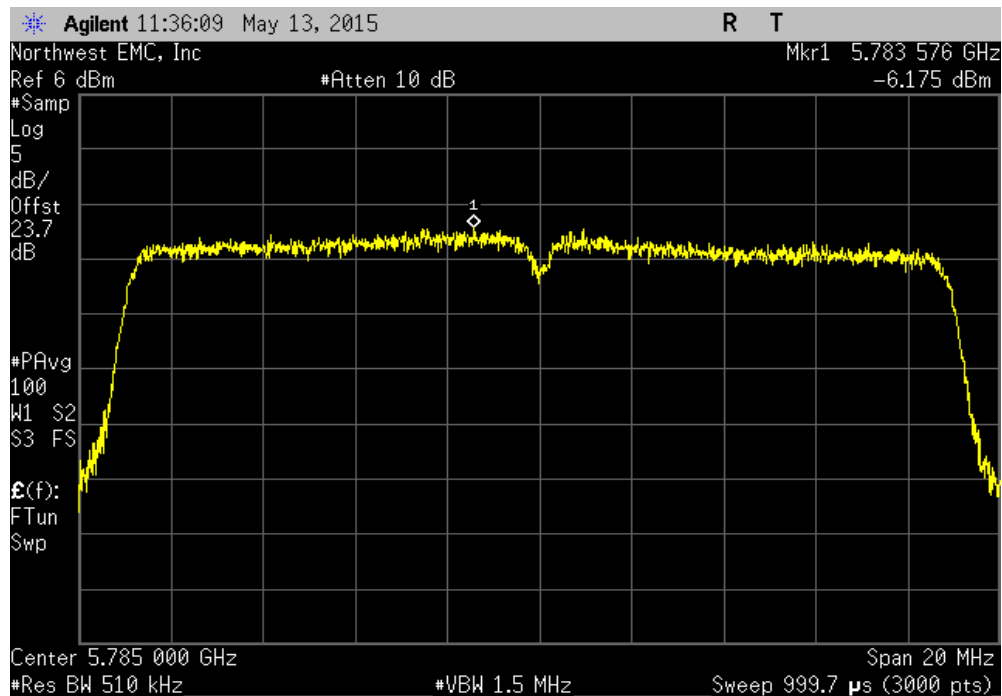


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

20 MHz, Chain C, 802.11(n) MCS8, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-4.726	30	Pass			

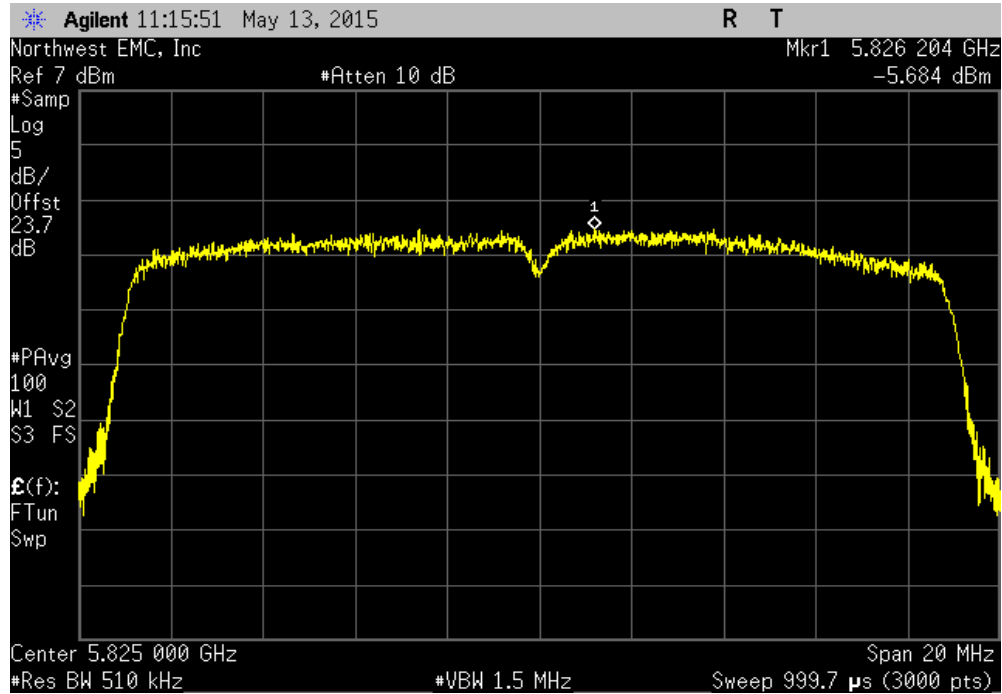


20 MHz, Chain C, 802.11(n) MCS8, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-6.175	30	Pass			

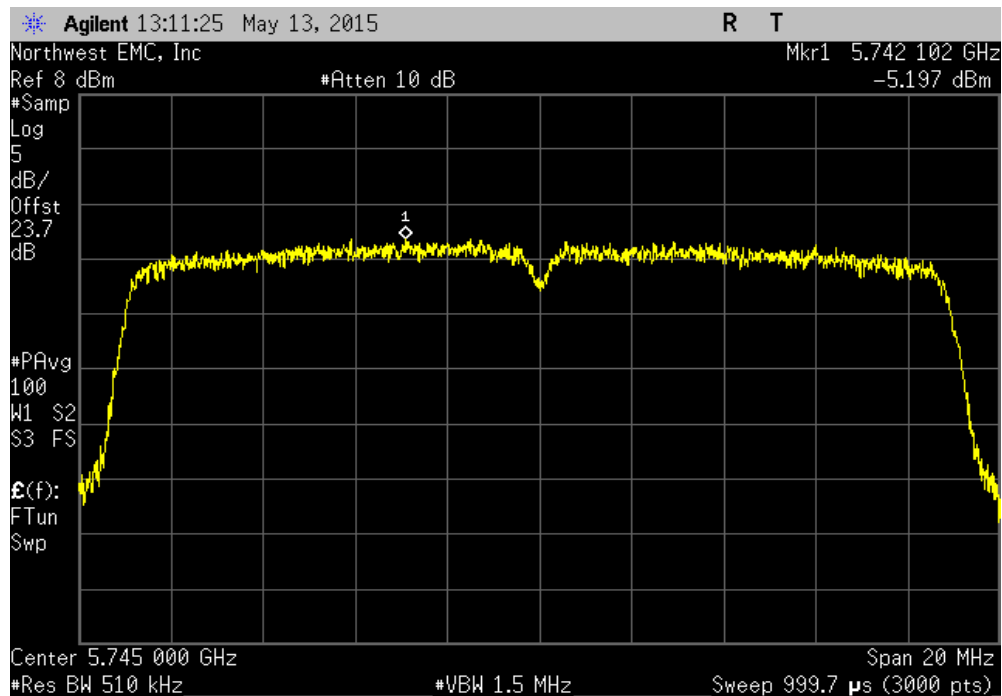


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

20 MHz, Chain C, 802.11(n) MCS8, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.684	30	Pass			



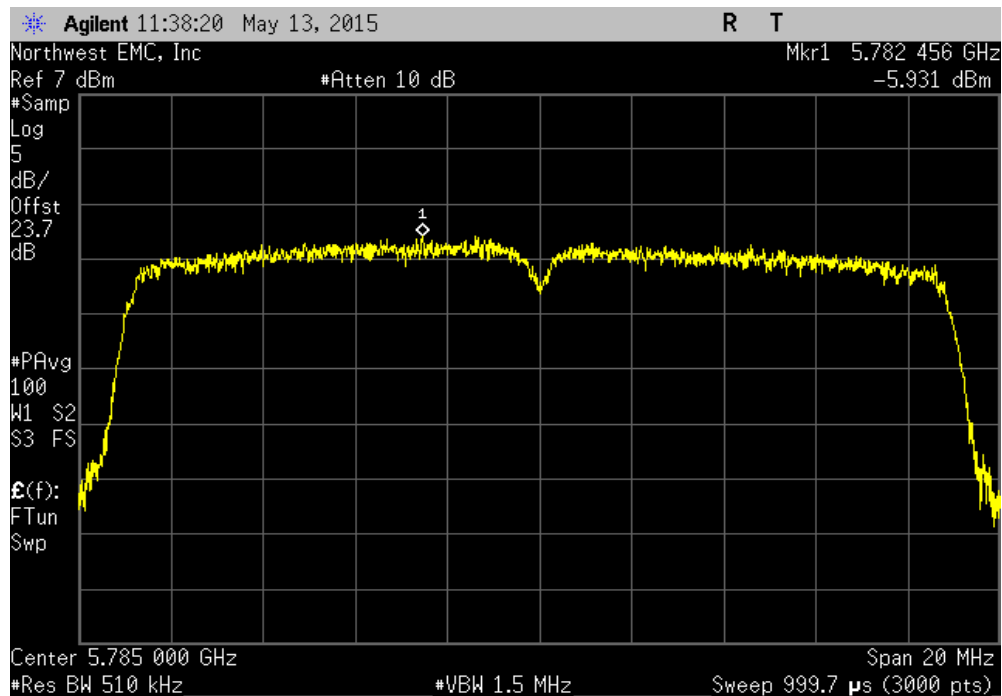
20 MHz, Chain C, 802.11(n) MCS15, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.197	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

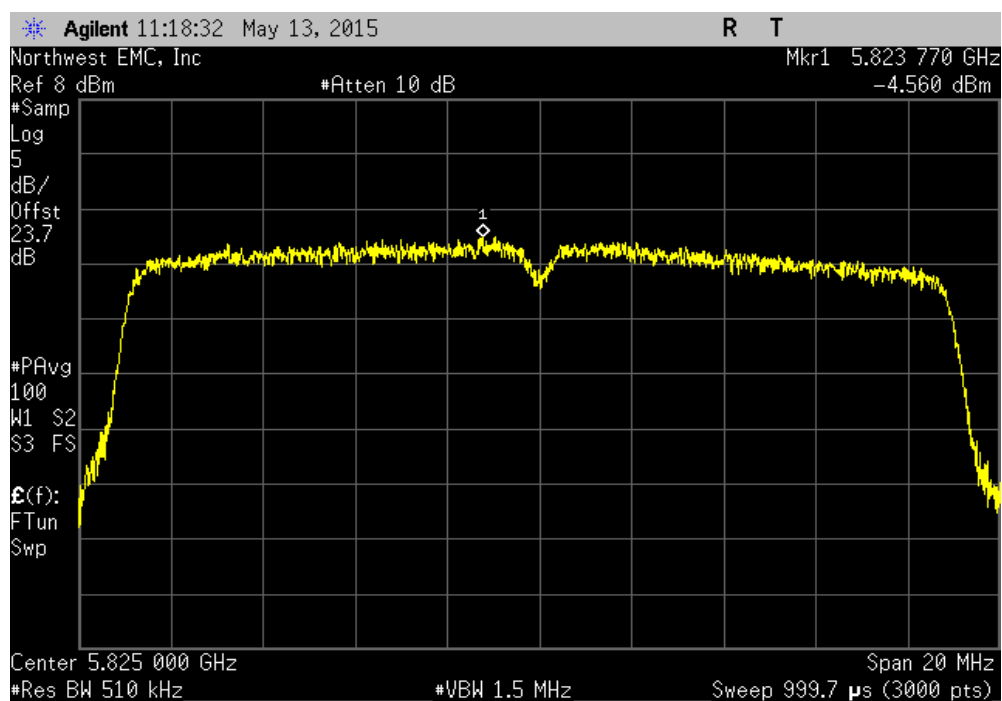
20 MHz, Chain C, 802.11(n) MCS15, Channel 157, Mid Channel

Value (dBm / MHz)	Limit (dBm / Ref BW)	Results
-5.931	30	Pass



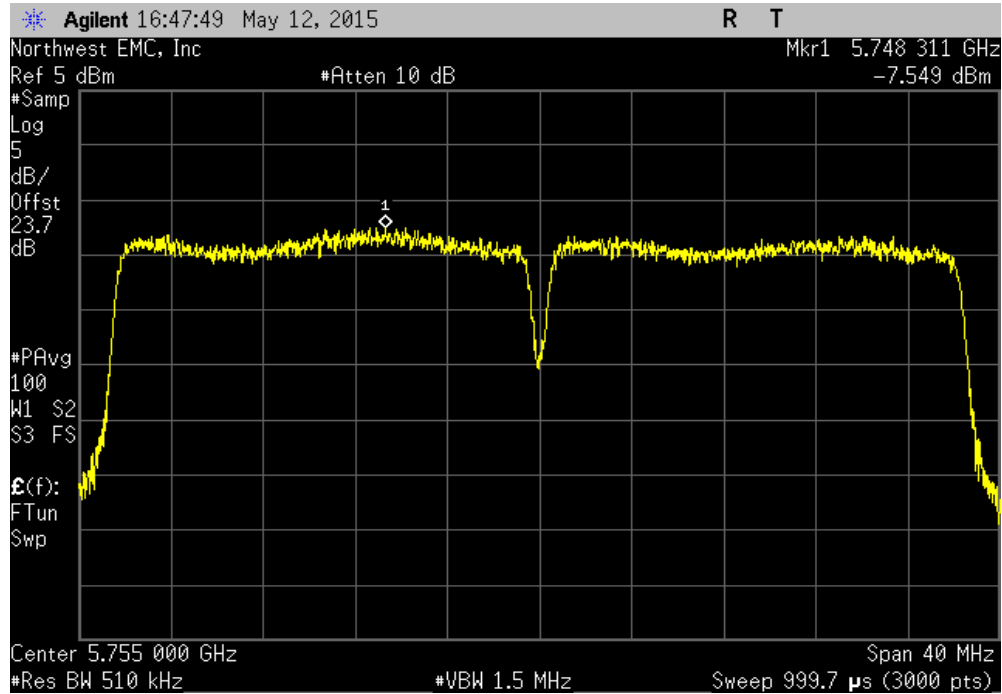
20 MHz, Chain C, 802.11(n) MCS15, Channel 165, High Channel

Value (dBm / MHz)	Limit (dBm / Ref BW)	Results
-4.56	30	Pass

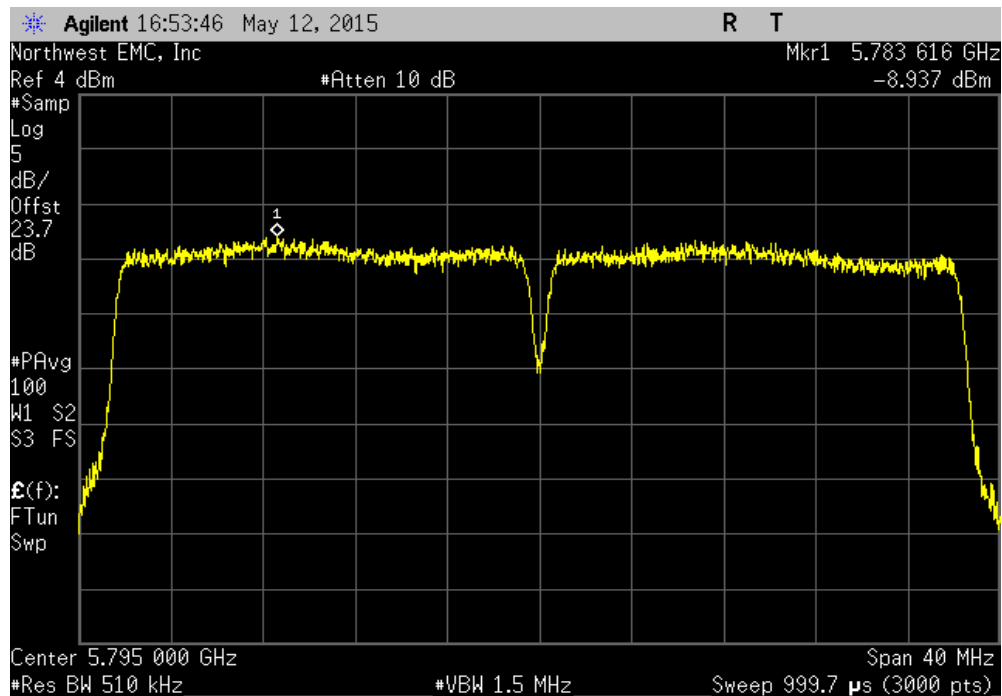


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

40 MHz, Chain A, 802.11(n) MCS8, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-7.549	30	Pass			



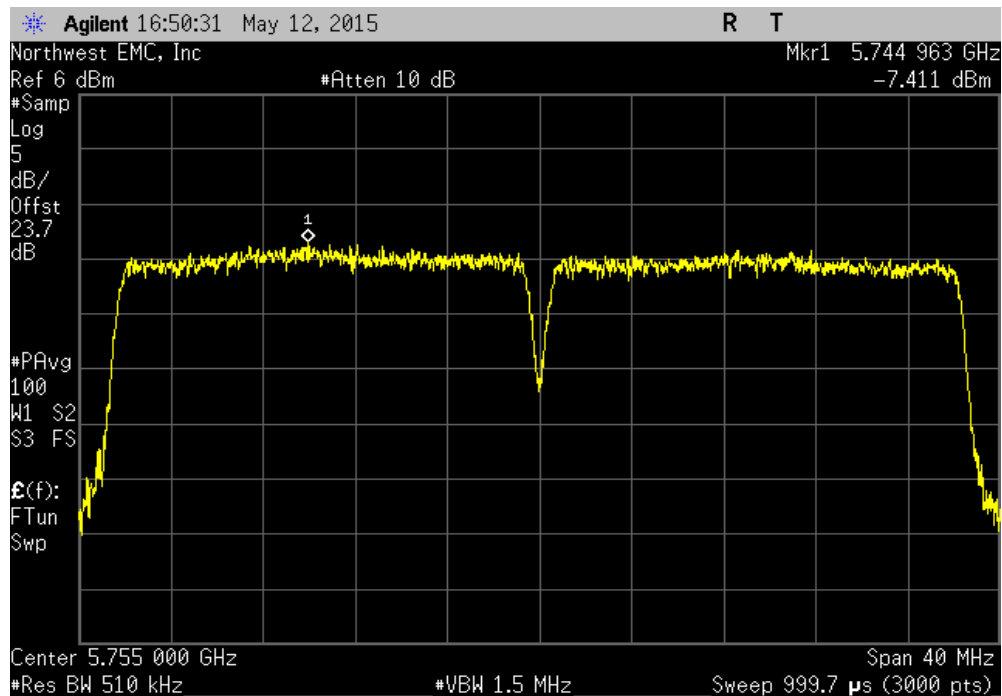
40 MHz, Chain A, 802.11(n) MCS8, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-8.937	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

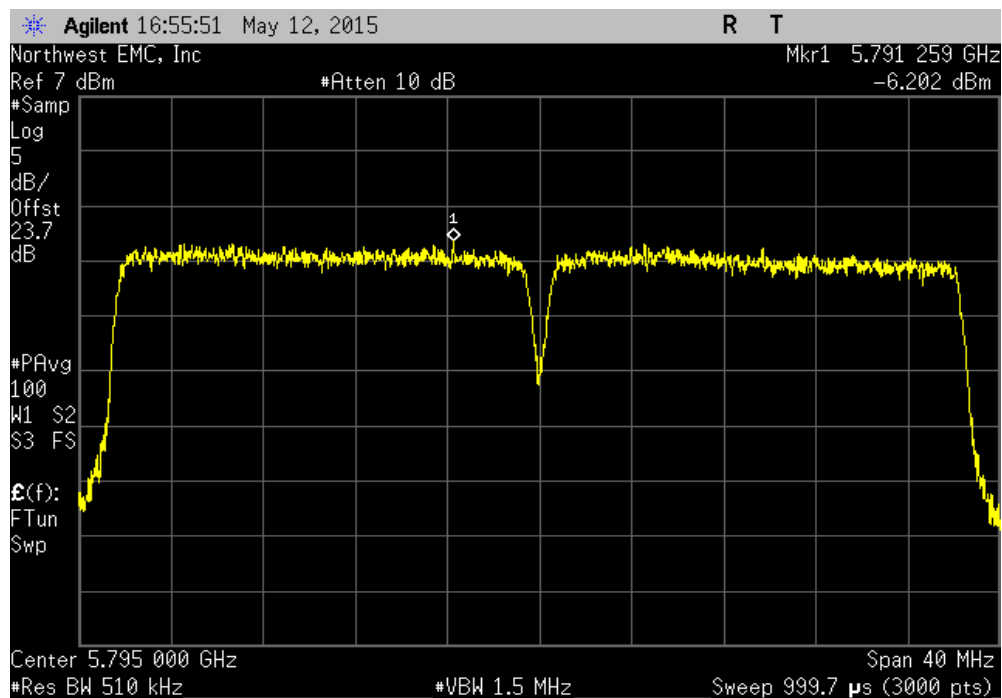
40 MHz, Chain A, 802.11(n) MCS15, Channel 149/153, Low Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-7.411	30	Pass



40 MHz, Chain A, 802.11(n) MCS15, Channel 157/161, High Channel

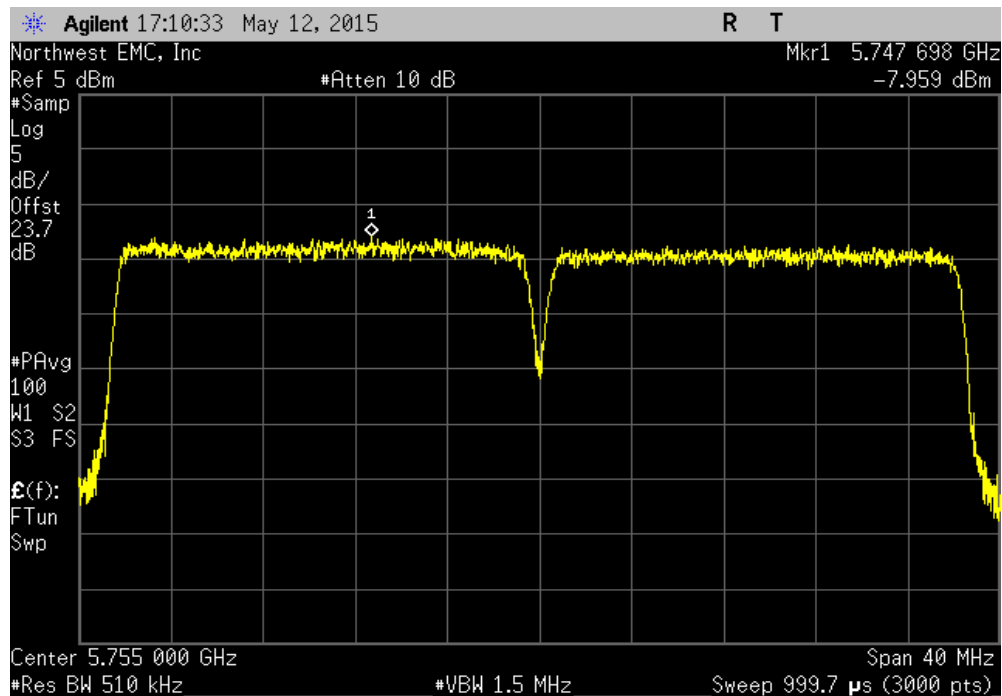
Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-6.202	30	Pass



PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

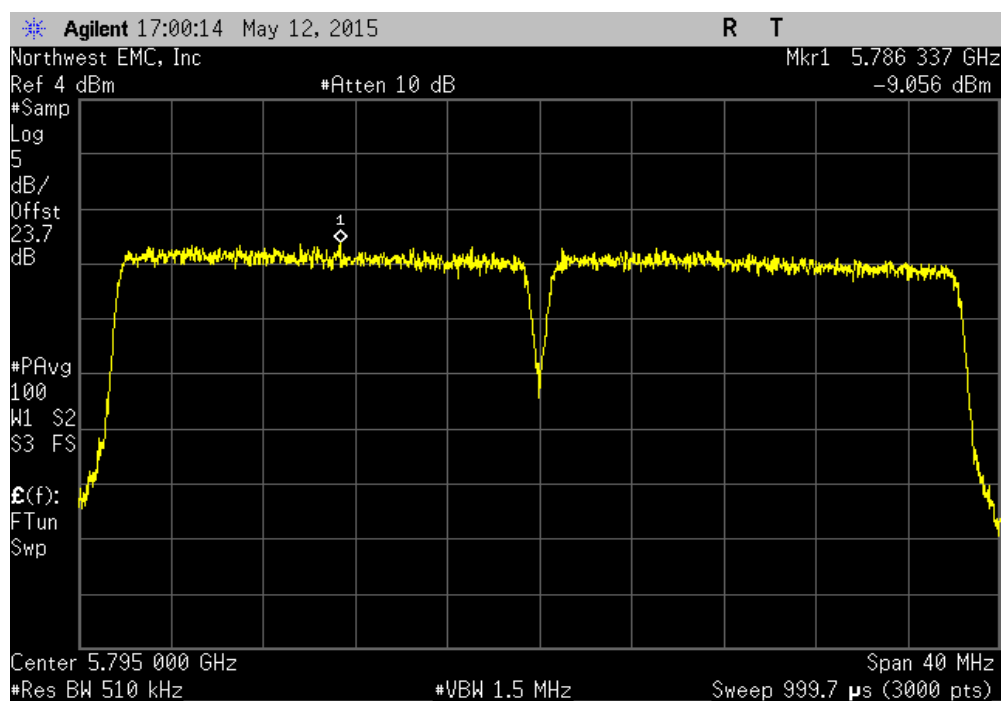
40 MHz, Chain B, 802.11(n) MCS8, Channel 149/153, Low Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-7.959	30	Pass



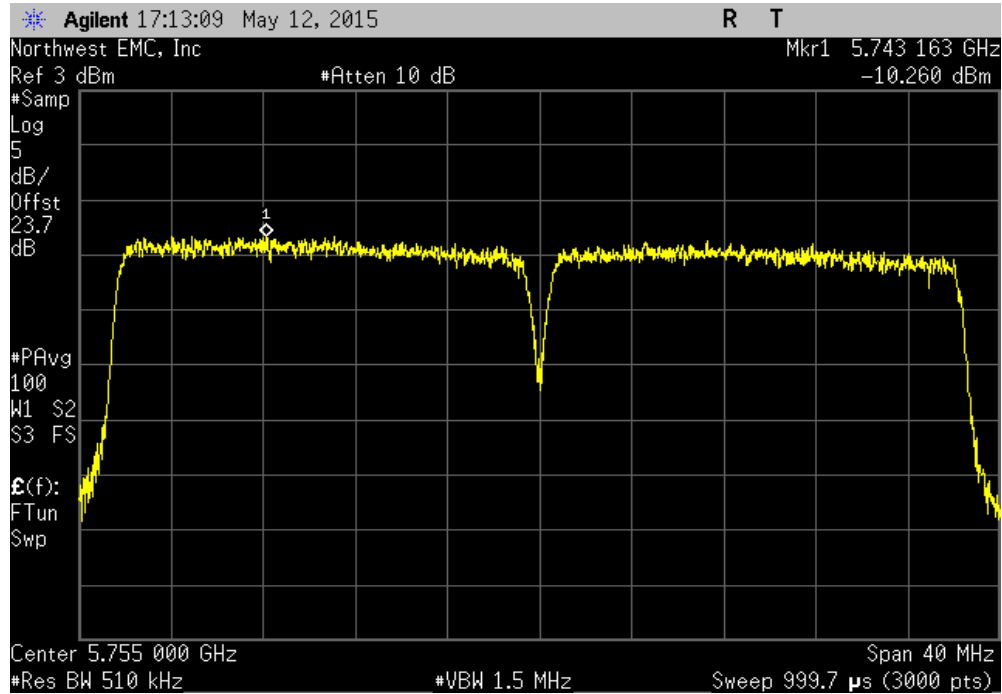
40 MHz, Chain B, 802.11(n) MCS8, Channel 157/161, High Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-9.056	30	Pass

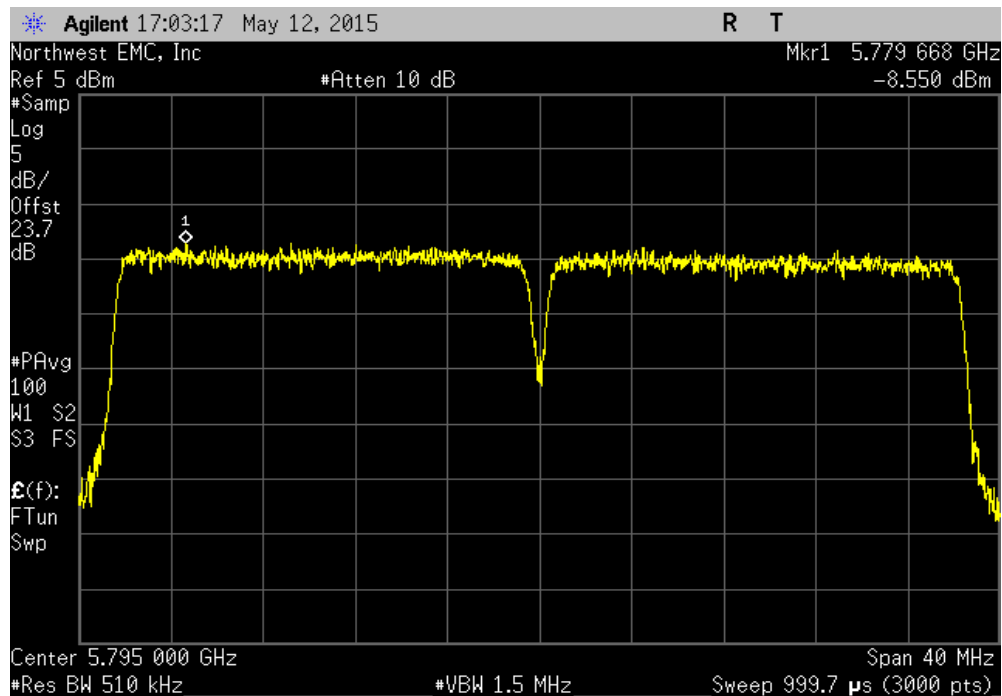


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

40 MHz, Chain B, 802.11(n) MCS15, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-10.26	30	Pass			

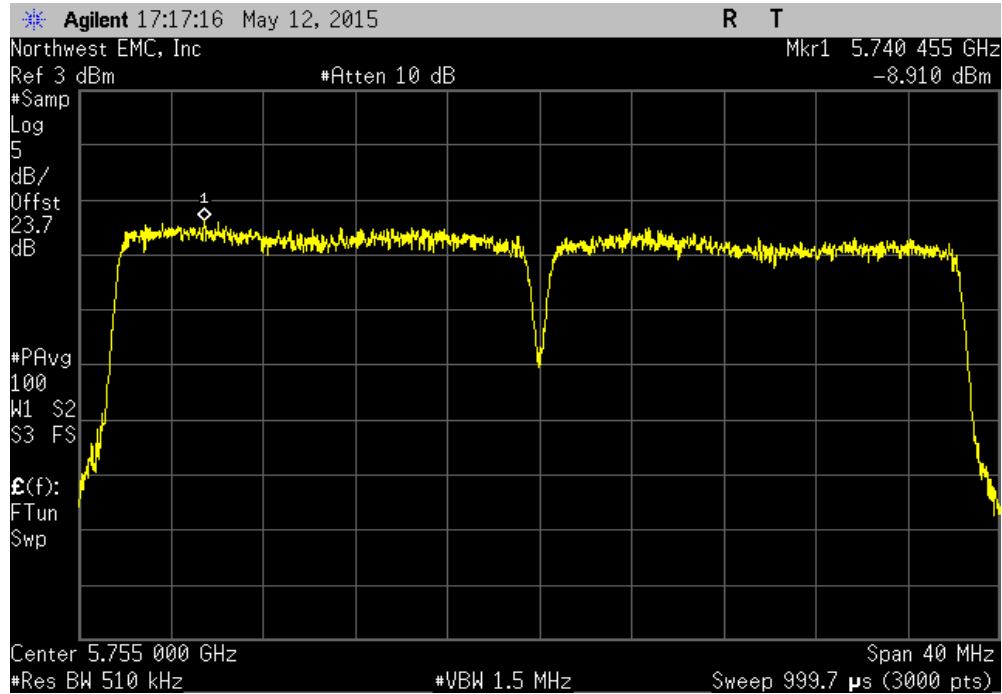


40 MHz, Chain B, 802.11(n) MCS15, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-8.55	30	Pass			

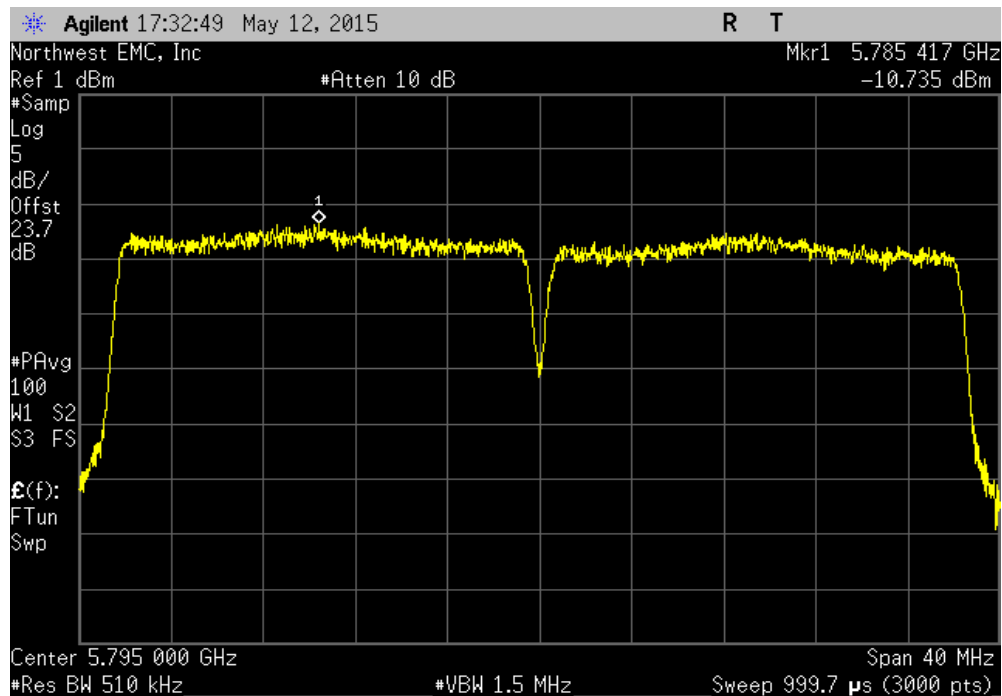


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

40 MHz, Chain C, 802.11(n) MCS8, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-8.91	30	Pass			

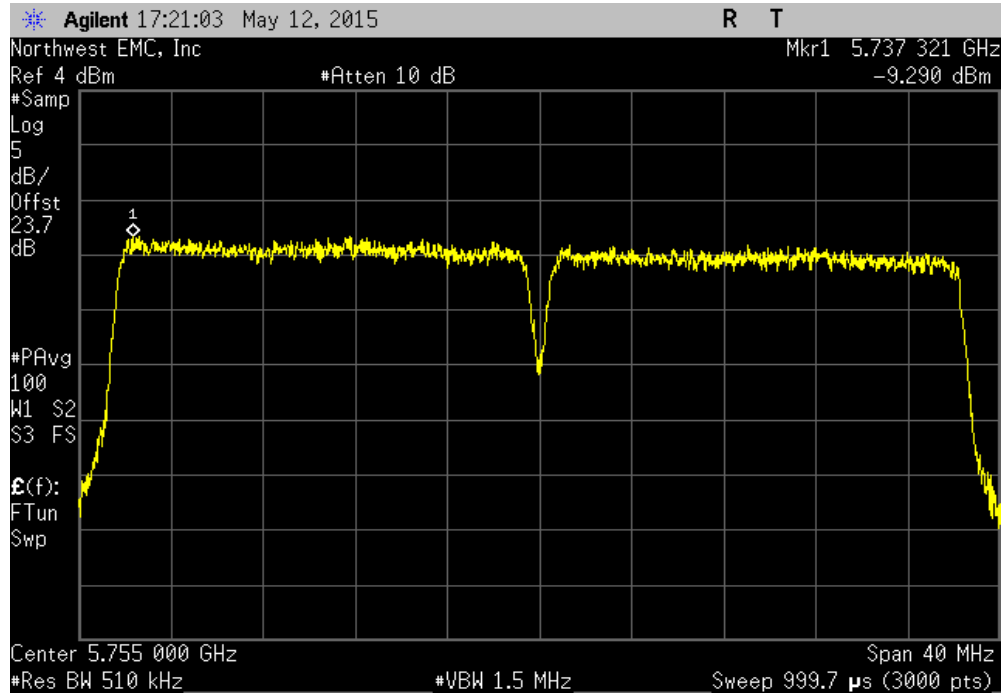


40 MHz, Chain C, 802.11(n) MCS8, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-10.735	30	Pass			

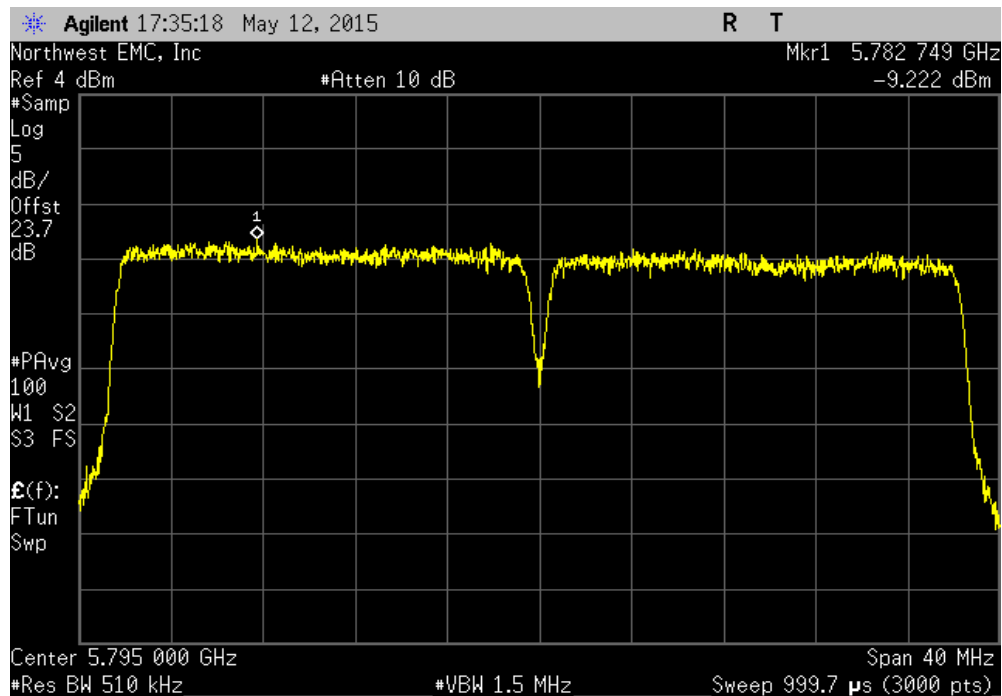


PEAK POWER SPECTRAL DENSITY - 5.8GHz MULTI

40 MHz, Chain C, 802.11(n) MCS15, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-9.29	30	Pass			



40 MHz, Chain C, 802.11(n) MCS15, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-9.222	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
OC13 Cables	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Attenuator, 20dB	Fairview Microwave	SA18E-10	TKS	4/8/2015	12
40GHz DC Block	Fairview Microwave	SD3379	AMN	4/8/2015	12
Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01 Section F was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The data rate(s) listed in the datasheet were tested. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak power spectral density, the transmission pulse duration (T) was measured. The transmission pulse duration and the associated data are found elsewhere in this test report.

The spectrum analyzer settings were as follows:

- The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- Sample detector was used because Method SA-1 Alternate was used to measure the Maximum Conducted Output Power.
- Trace average 100 traces in power averaging mode (not video averaging).

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of power averaging (not video averaging).

PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE



XMR 2015.01.14

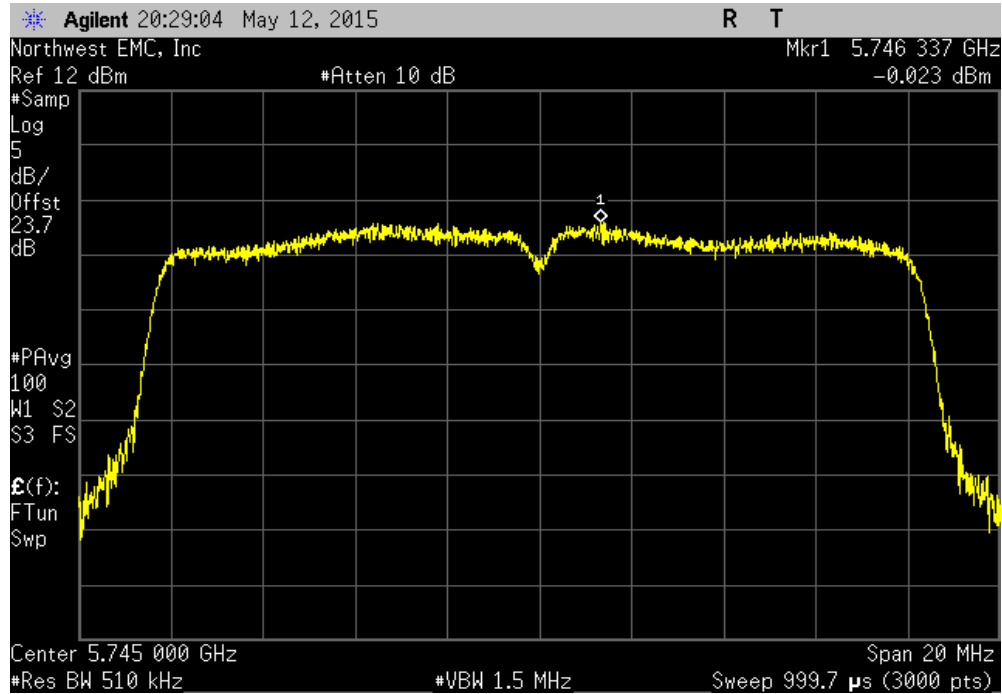
EUT: RLX2-IHNF		Work Order: PROS0221
Serial Number: 000D8DF095CE		Date: 05/11/15
Customer: ProSoft Technology, Inc.		Temperature: 20.5°C
Attendees: None		Humidity: 44%
Project: None		Barometric Pres.: 1015
Tested by: Johnny Candelas	Power: 120V/60Hz	Job Site: OC13
TEST SPECIFICATIONS		Test Method
FCC 15.407:2015		ANSI C63.10:2009
COMMENTS		
Offset 23.46dB (DC Block+20dB Attenuator+Coax Cable) for 5.3 & 5.6GHz / 23.67dB for 5.8GHz		
Power Setting - Max		
DEVIATIONS FROM TEST STANDARD		
None		
Configuration #	1	Signature 
		Value (dBm / MHz)
		Limit (dBm / Ref BW)
		Results
20 MHz		
Chain A		
802.11(a) 6 Mbps		
Channel 149, Low Channel		-0.023 30 Pass
Channel 157, Mid Channel		-0.216 30 Pass
Channel 165, High Channel		-1.093 30 Pass
802.11(a) 36 Mbps		
Channel 149, Low Channel		0.255 30 Pass
Channel 157, Mid Channel		0.799 30 Pass
Channel 165, High Channel		0.58 30 Pass
802.11(a) 54 Mbps		
Channel 149, Low Channel		-2.232 30 Pass
Channel 157, Mid Channel		-1.844 30 Pass
Channel 165, High Channel		-2.514 30 Pass
802.11(n) MCS0		
Channel 149, Low Channel		-5.018 30 Pass
Channel 157, Mid Channel		-1.991 30 Pass
Channel 165, High Channel		-4.984 30 Pass
802.11(n) MCS7		
Channel 149, Low Channel		-1.948 30 Pass
Channel 157, Mid Channel		-3.742 30 Pass
Channel 165, High Channel		-2.954 30 Pass
Chain B		
802.11(a) 6 Mbps		
Channel 149, Low Channel		-1.371 30 Pass
Channel 157, Mid Channel		-3.41 30 Pass
Channel 165, High Channel		-2.963 30 Pass
802.11(a) 36 Mbps		
Channel 149, Low Channel		-1.057 30 Pass
Channel 157, Mid Channel		-1.321 30 Pass
Channel 165, High Channel		-0.113 30 Pass
802.11(a) 54 Mbps		
Channel 149, Low Channel		-4.174 30 Pass
Channel 157, Mid Channel		-5.27 30 Pass
Channel 165, High Channel		-3.515 30 Pass
802.11(n) MCS0		
Channel 149, Low Channel		-5.015 30 Pass
Channel 157, Mid Channel		-5.45 30 Pass
Channel 165, High Channel		-3.556 30 Pass
802.11(n) MCS7		
Channel 149, Low Channel		-5.048 30 Pass
Channel 157, Mid Channel		-5.94 30 Pass
Channel 165, High Channel		-3.312 30 Pass
Chain C		
802.11(a) 6 Mbps		
Channel 149, Low Channel		-0.281 30 Pass
Channel 157, Mid Channel		-0.624 30 Pass
Channel 165, High Channel		-1.764 30 Pass
802.11(a) 36 Mbps		
Channel 149, Low Channel		-1.261 30 Pass
Channel 157, Mid Channel		-2.383 30 Pass
Channel 165, High Channel		-1.359 30 Pass
802.11(a) 54 Mbps		
Channel 149, Low Channel		-3.897 30 Pass
Channel 157, Mid Channel		-5.895 30 Pass
Channel 165, High Channel		-5.289 30 Pass
802.11(n) MCS0		
Channel 149, Low Channel		-4.726 30 Pass
Channel 157, Mid Channel		-6.175 30 Pass
Channel 165, High Channel		-5.684 30 Pass
802.11(n) MCS7		
Channel 149, Low Channel		-5.197 30 Pass
Channel 157, Mid Channel		-5.931 30 Pass
Channel 165, High Channel		-4.56 30 Pass
40 MHz		
Chain A		
802.11(n) MCS0		
Channel 149/153, Low Channel		-7.549 30 Pass
Channel 157/161, High Channel		-8.937 30 Pass
802.11(n) MCS7		
Channel 149/153, Low Channel		-7.411 30 Pass
Channel 157/161, High Channel		-6.202 30 Pass

Chain B				
802.11(n) MCS0				
	Channel 149/153, Low Channel	-7.959	30	Pass
	Channel 157/161, High Channel	-9.056	30	Pass
802.11(n) MCS7				
	Channel 149/153, Low Channel	-10.26	30	Pass
	Channel 157/161, High Channel	-8.55	30	Pass
Chain C				
802.11(n) MCS0				
	Channel 149/153, Low Channel	-8.91	30	Pass
	Channel 157/161, High Channel	-10.735	30	Pass
802.11(n) MCS7				
	Channel 149/153, Low Channel	-9.29	30	Pass
	Channel 157/161, High Channel	-9.222	30	Pass

PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

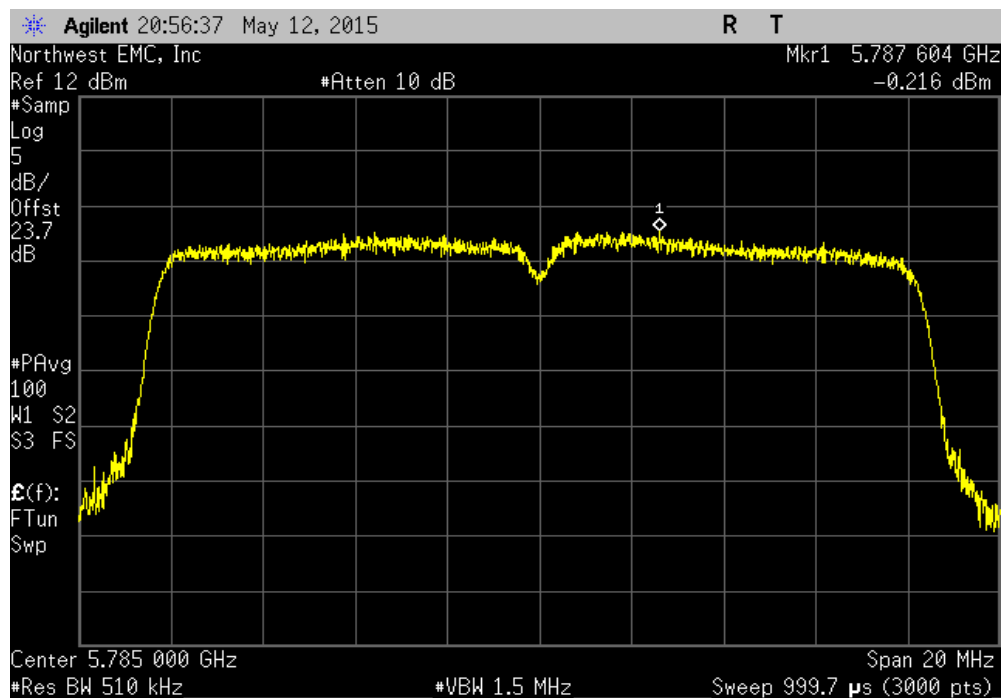
20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 149, Low Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-0.023	30	Pass



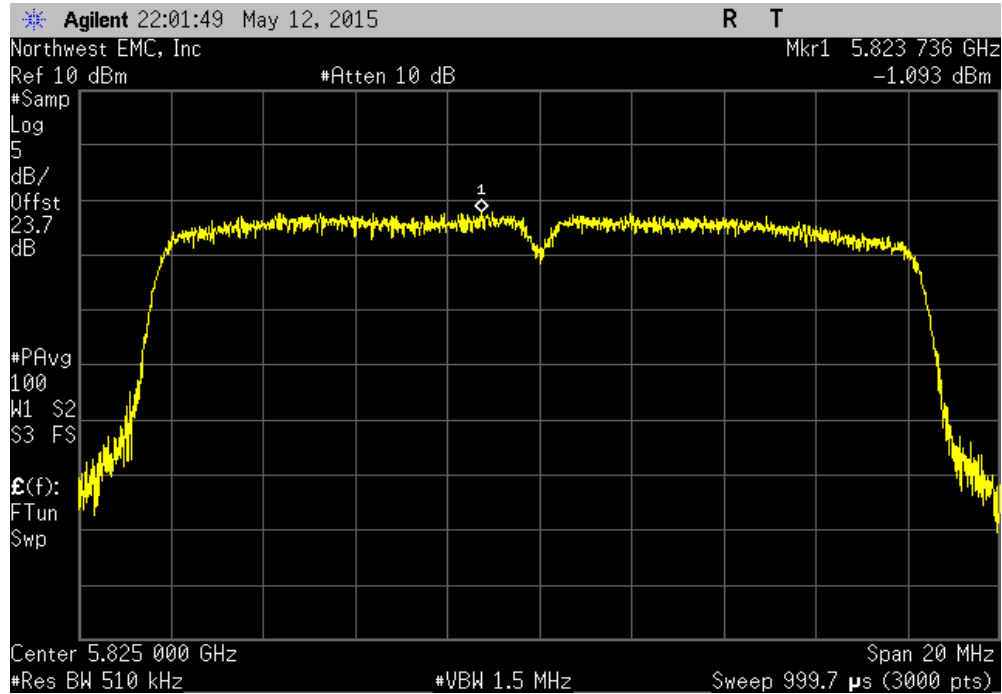
20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 157, Mid Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-0.216	30	Pass

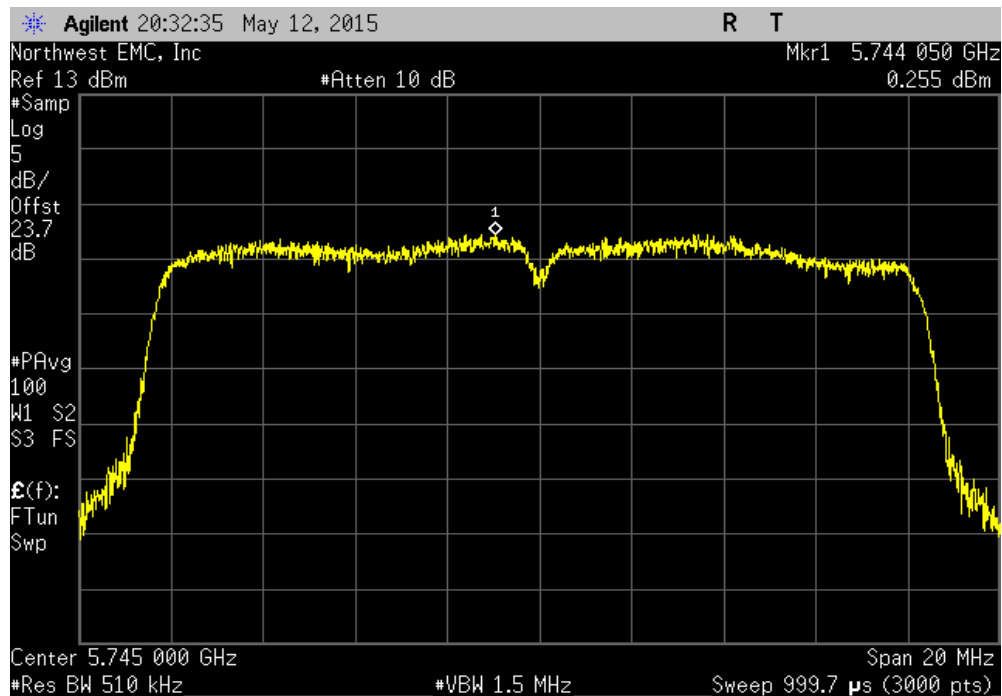


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 6 Mbps, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.093	30	Pass			

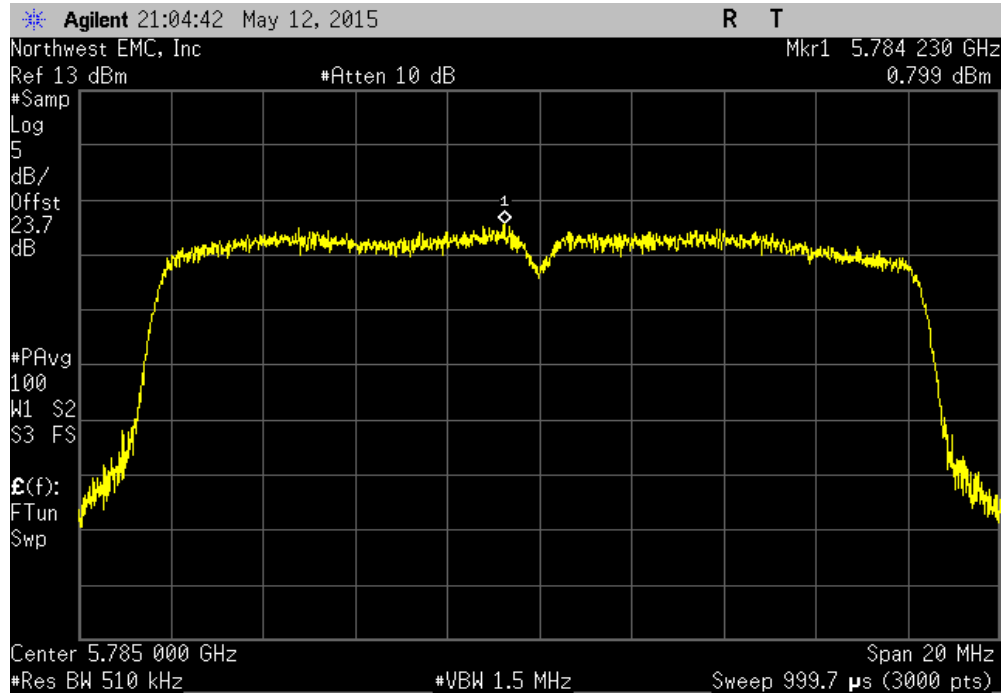


20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	0.255	30	Pass			

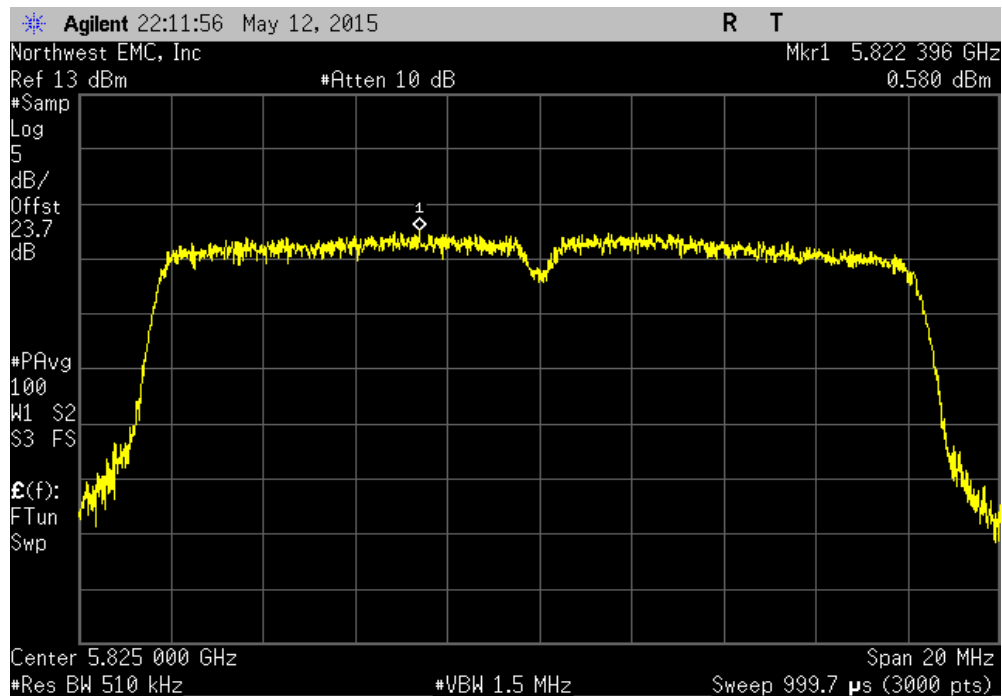


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	0.799	30	Pass			

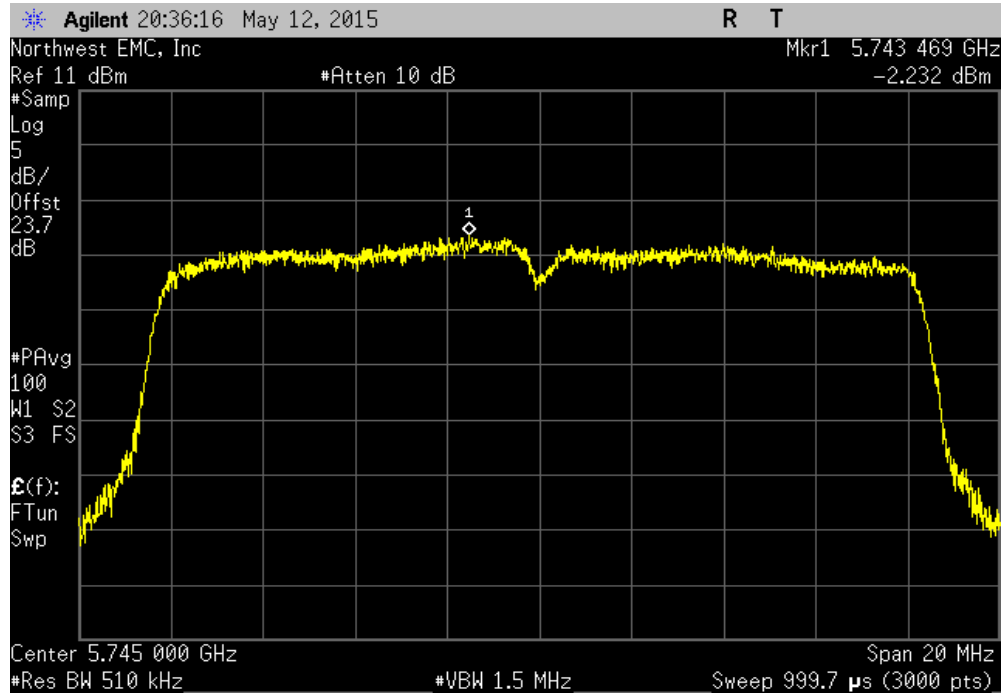


20 MHz, Chain A, 802.11(a) 36 Mbps, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	0.58	30	Pass			

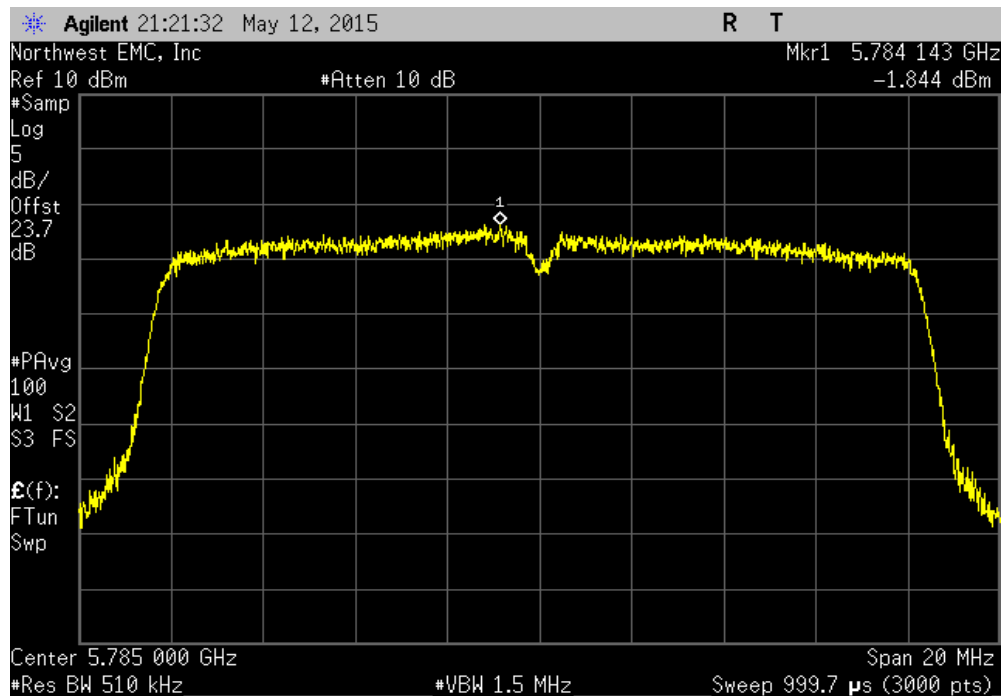


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-2.232	30	Pass			

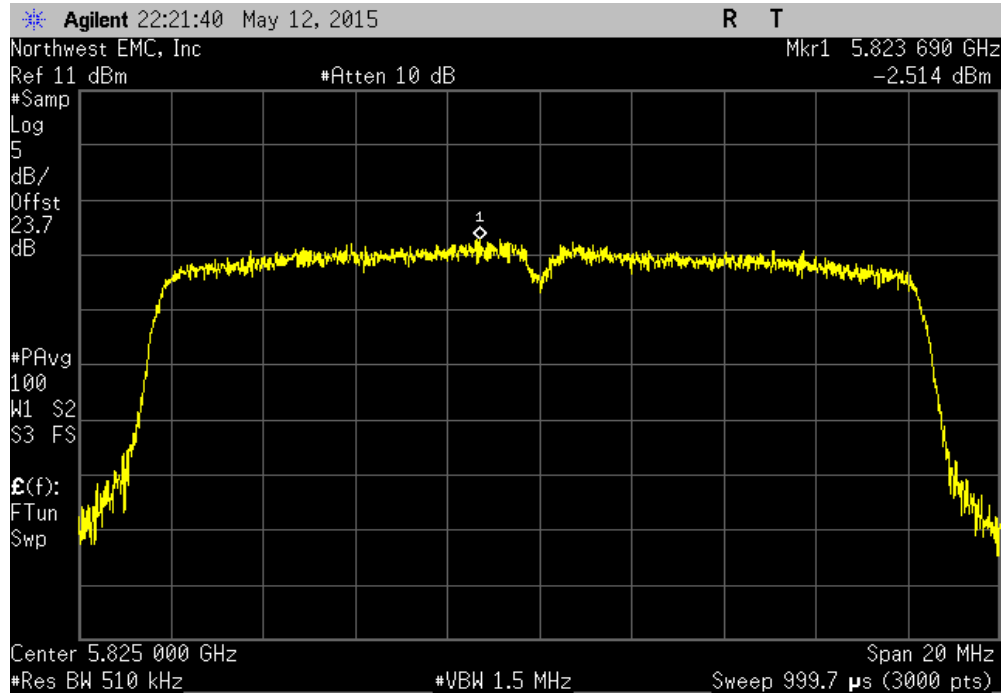


20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.844	30	Pass			

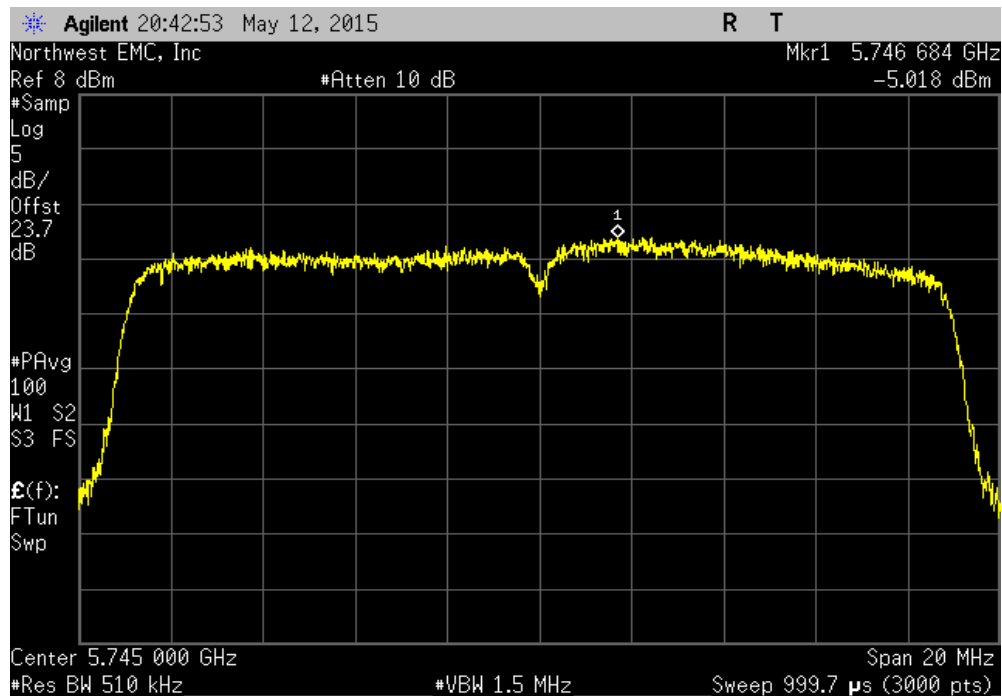


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(a) 54 Mbps, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-2.514	30	Pass			

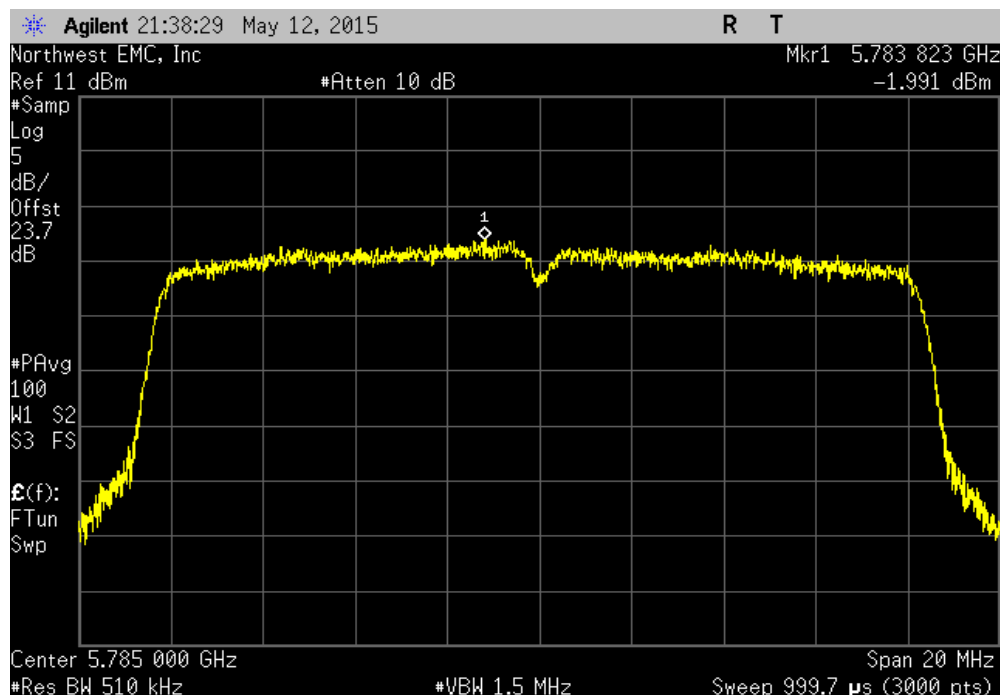


20 MHz, Chain A, 802.11(n) MCS0, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.018	30	Pass			

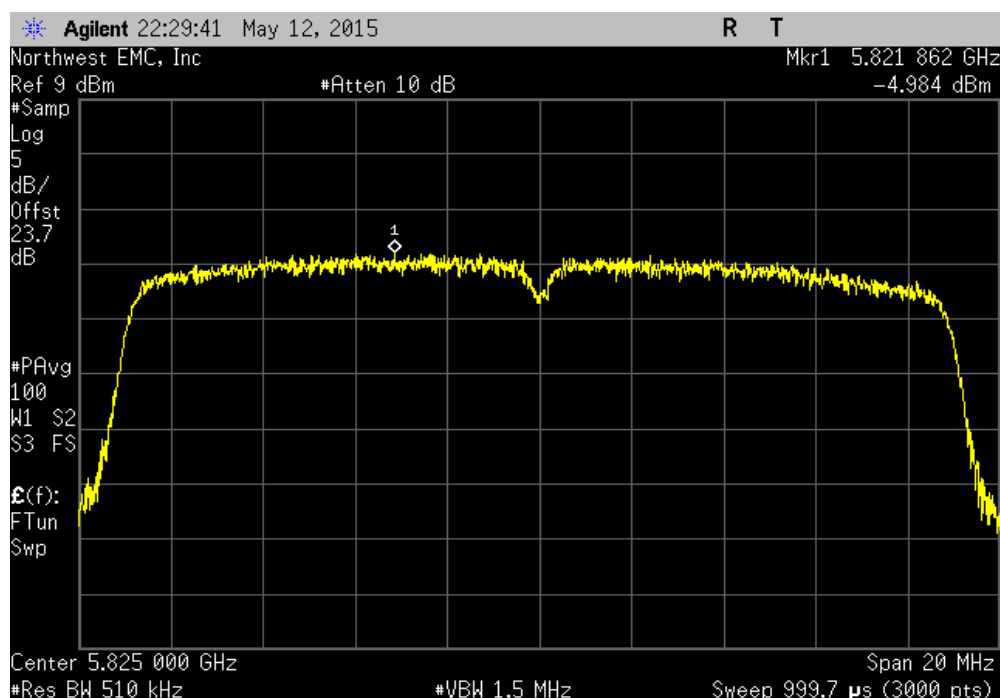


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS0, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.991	30	Pass			

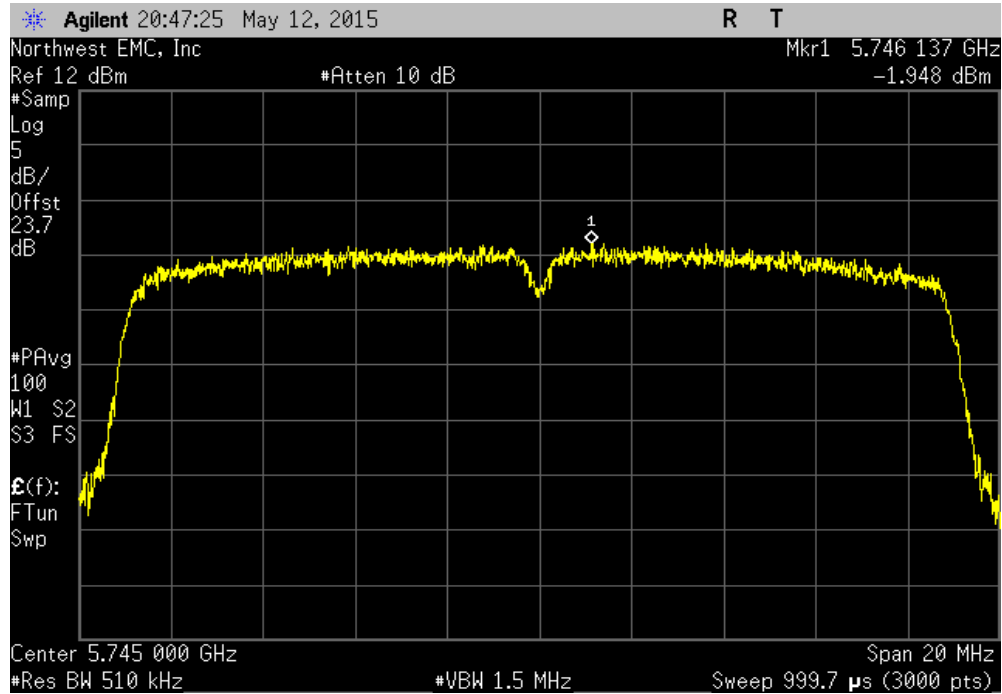


20 MHz, Chain A, 802.11(n) MCS0, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-4.984	30	Pass			

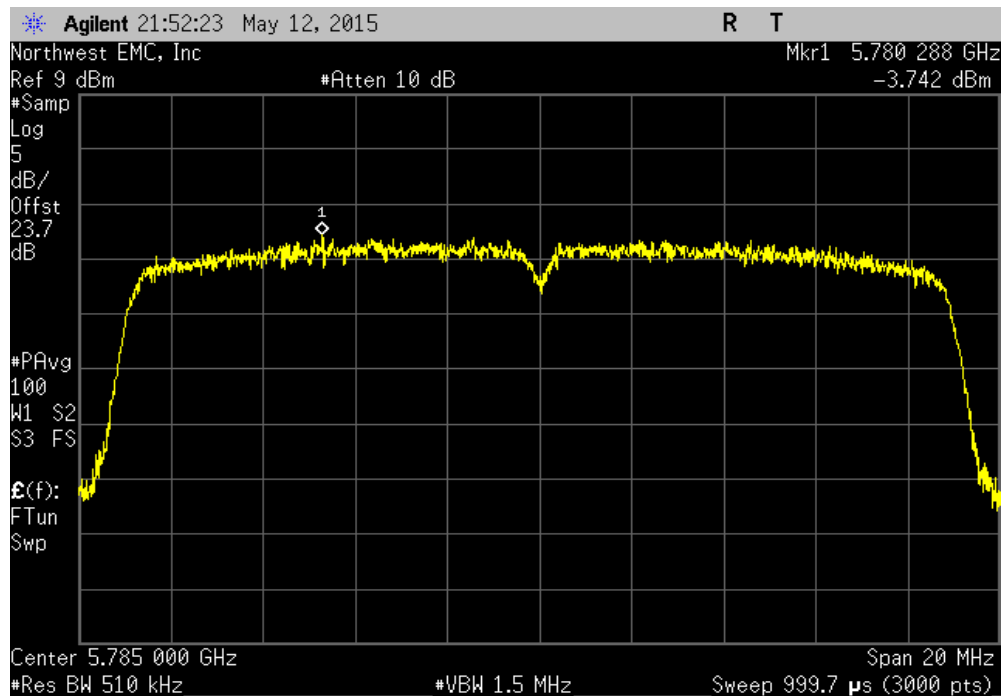


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS7, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.948	30	Pass			

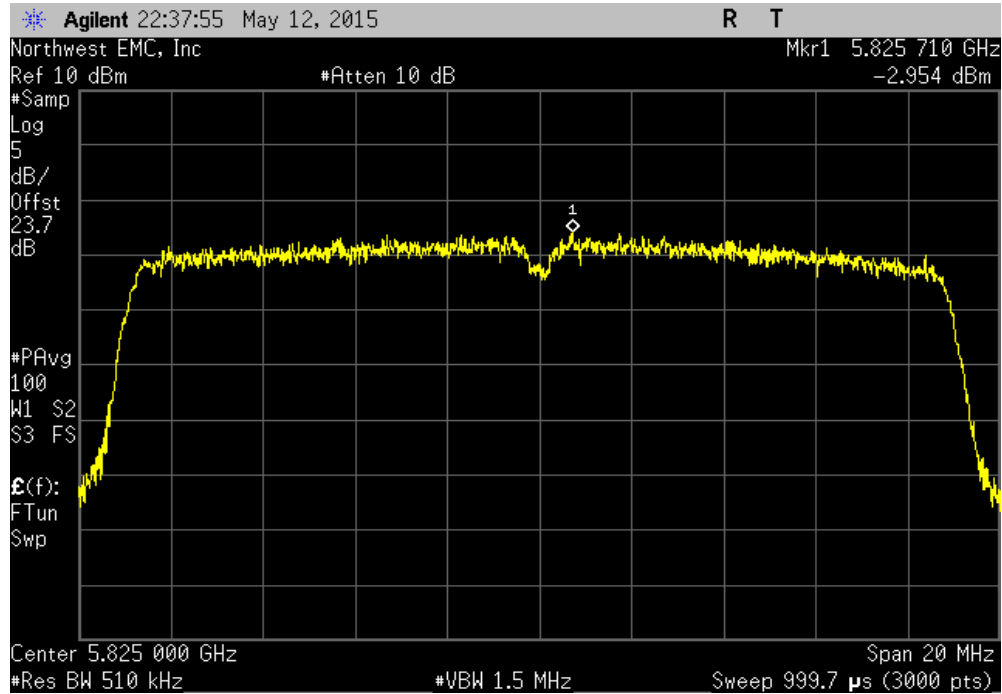


20 MHz, Chain A, 802.11(n) MCS7, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-3.742	30	Pass			

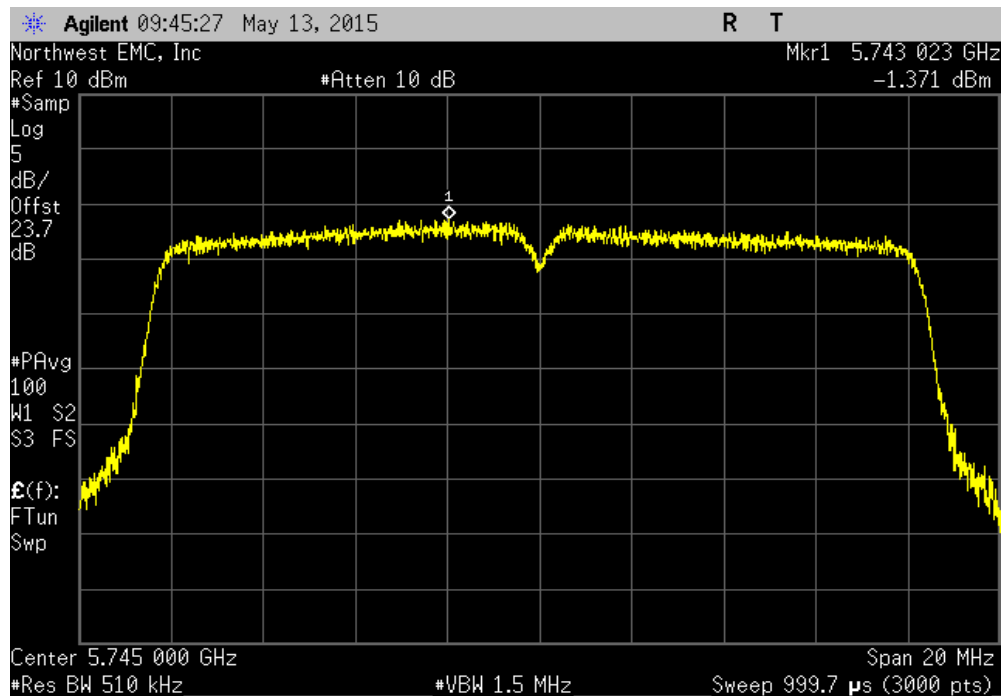


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain A, 802.11(n) MCS7, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-2.954	30	Pass			



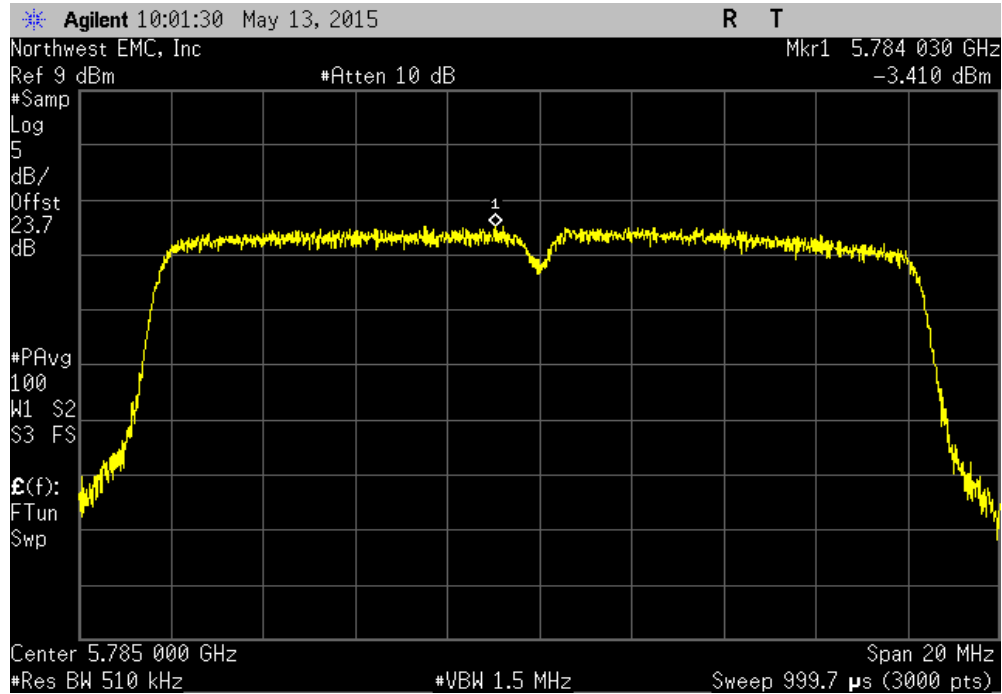
20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.371	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

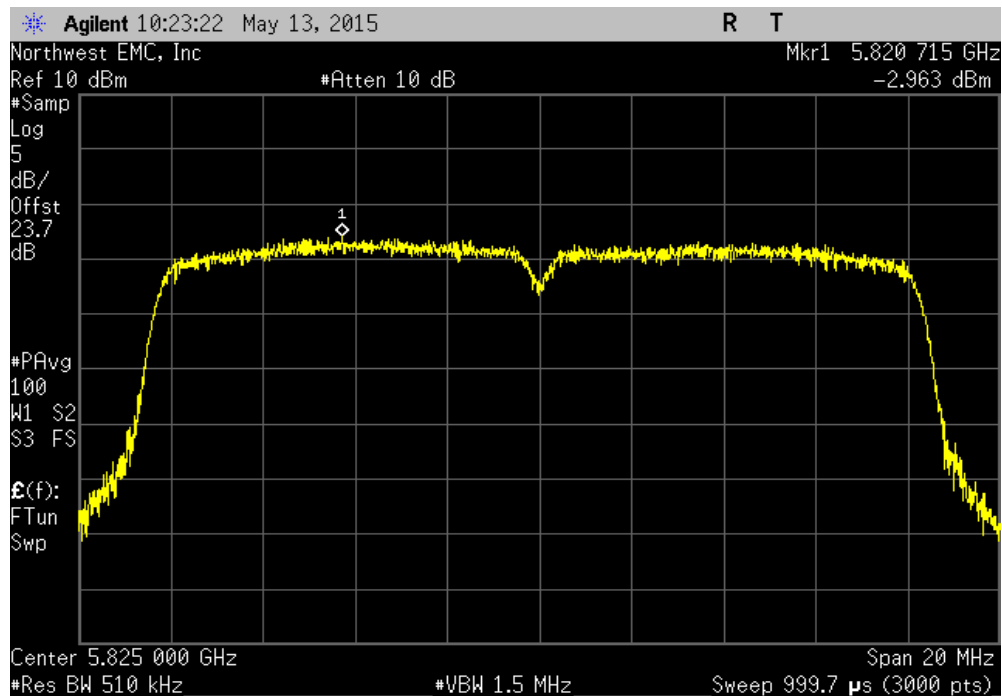
20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 157, Mid Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-3.41	30	Pass



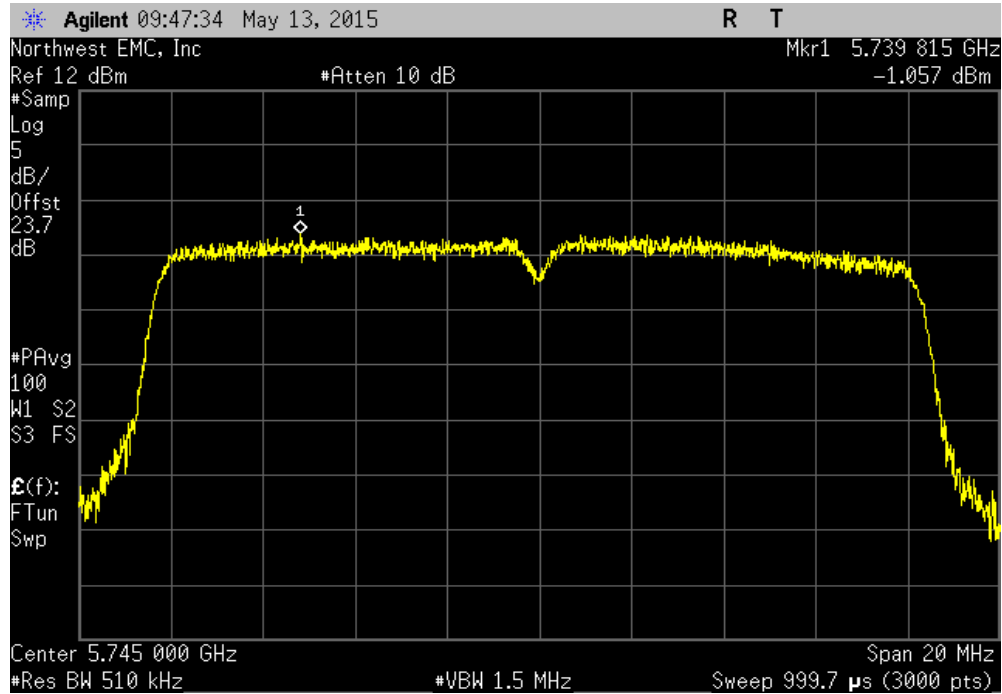
20 MHz, Chain B, 802.11(a) 6 Mbps, Channel 165, High Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-2.963	30	Pass

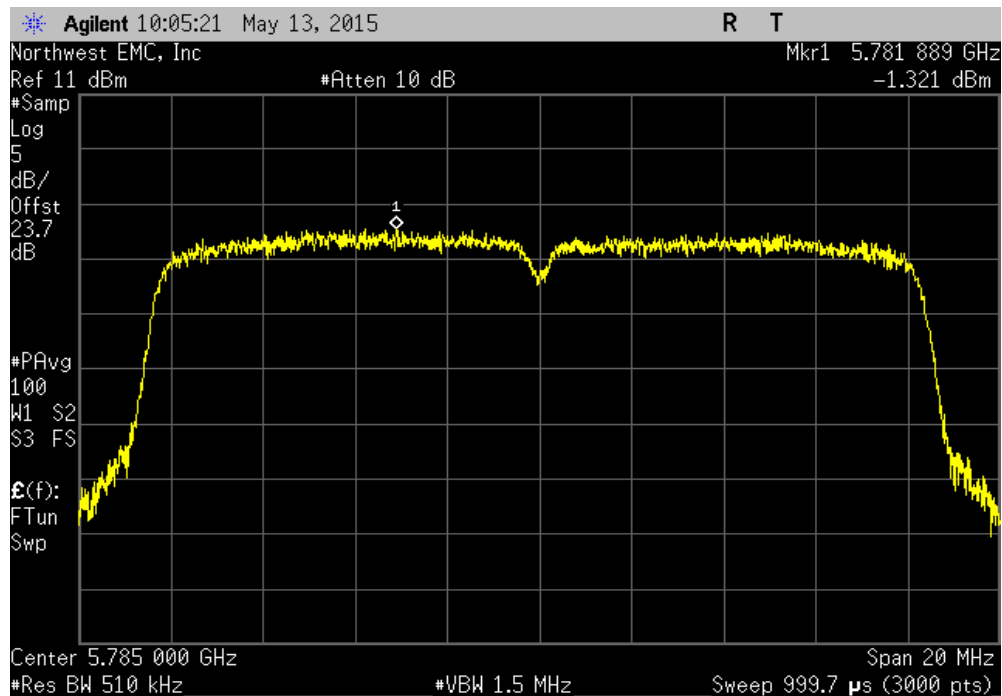


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.057	30	Pass			

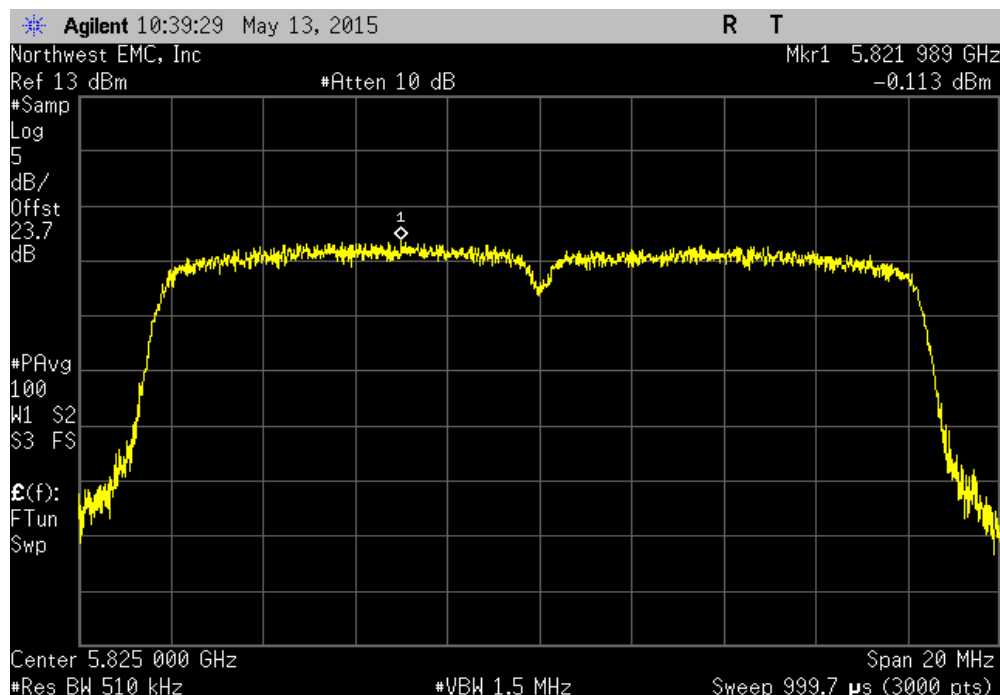


20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.321	30	Pass			

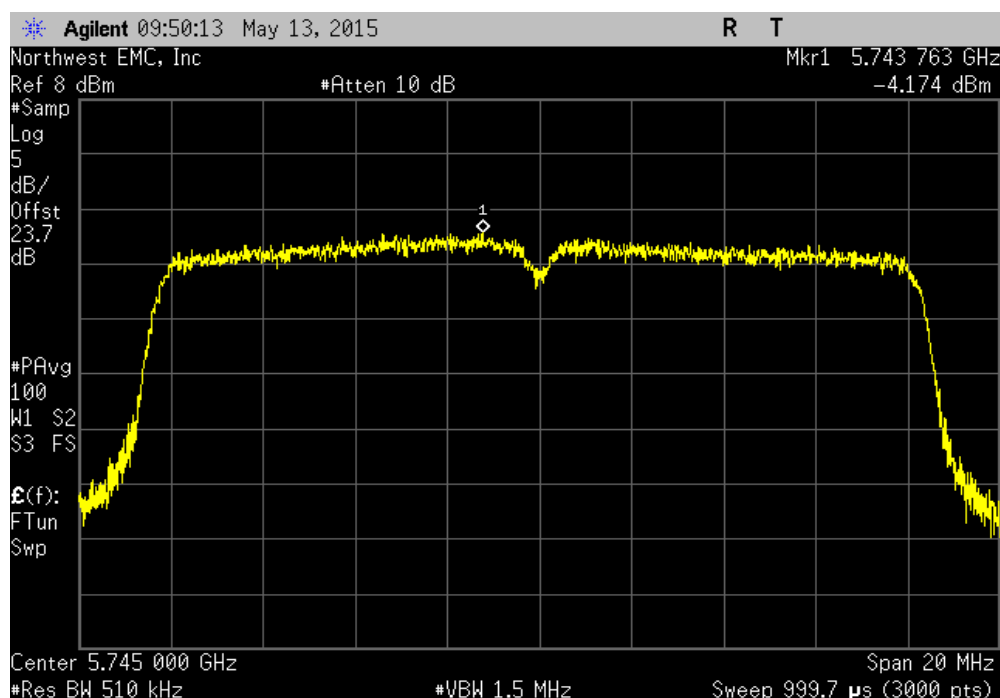


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(a) 36 Mbps, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-0.113	30	Pass			



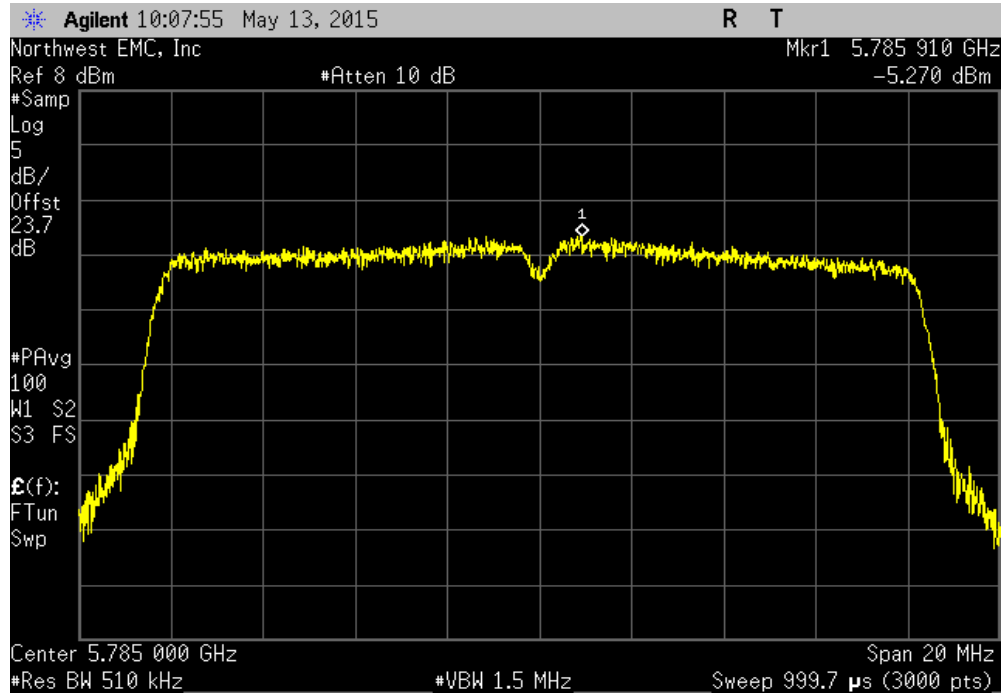
20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-4.174	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

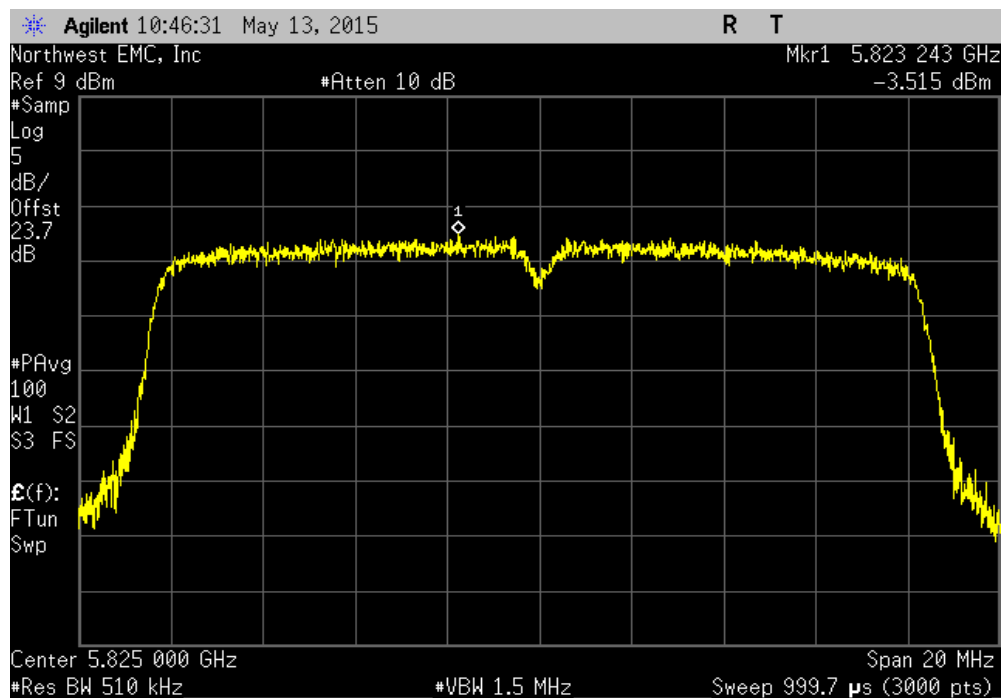
20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 157, Mid Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-5.27	30	Pass



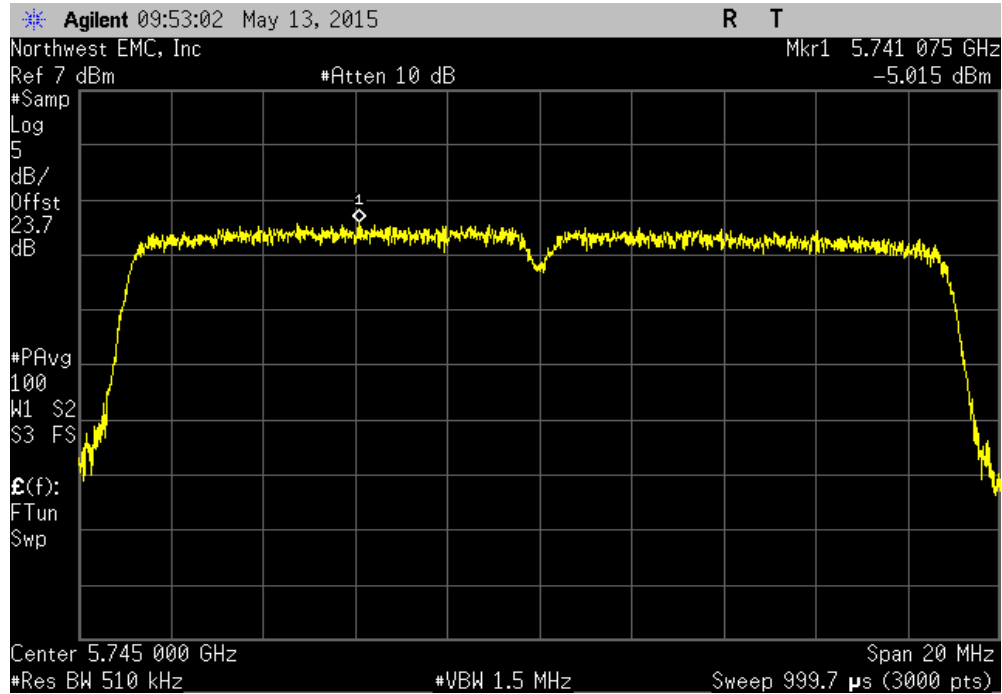
20 MHz, Chain B, 802.11(a) 54 Mbps, Channel 165, High Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-3.515	30	Pass

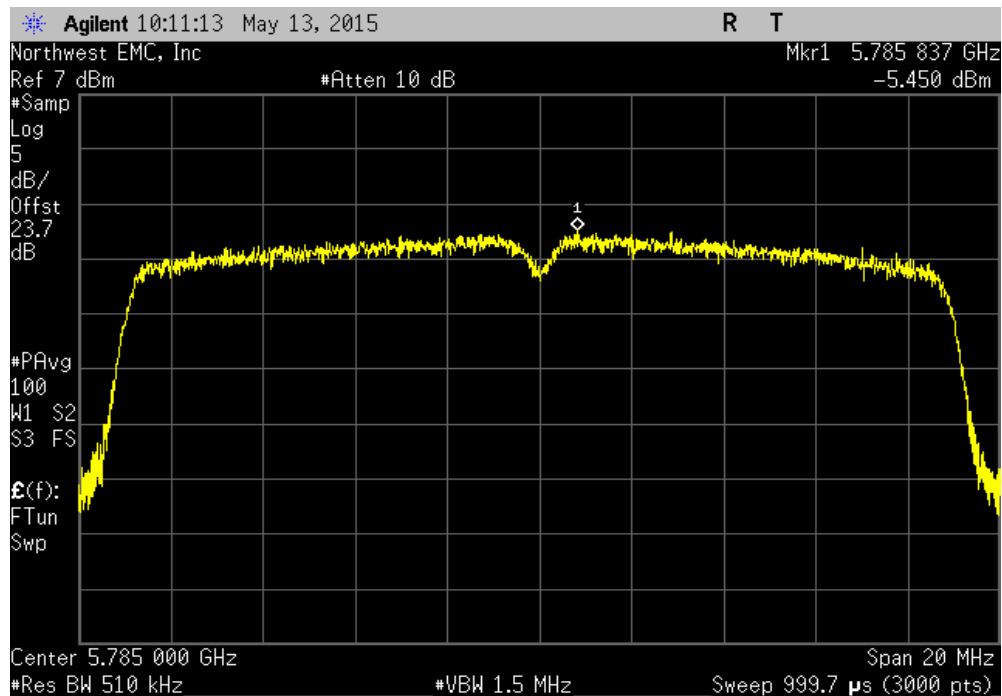


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS0, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.015	30	Pass			

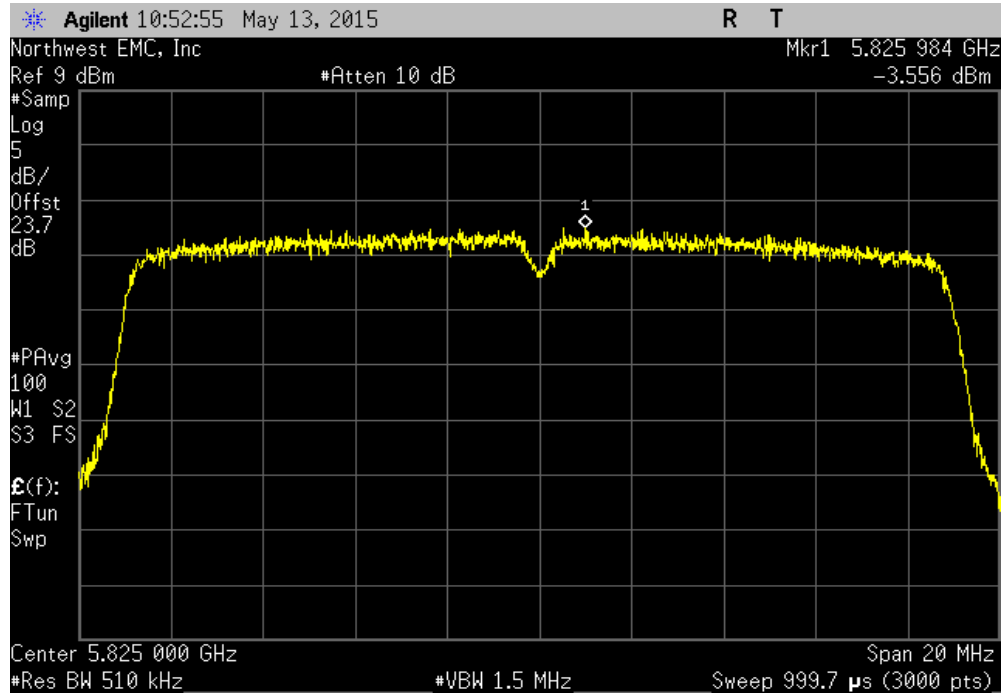


20 MHz, Chain B, 802.11(n) MCS0, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.45	30	Pass			

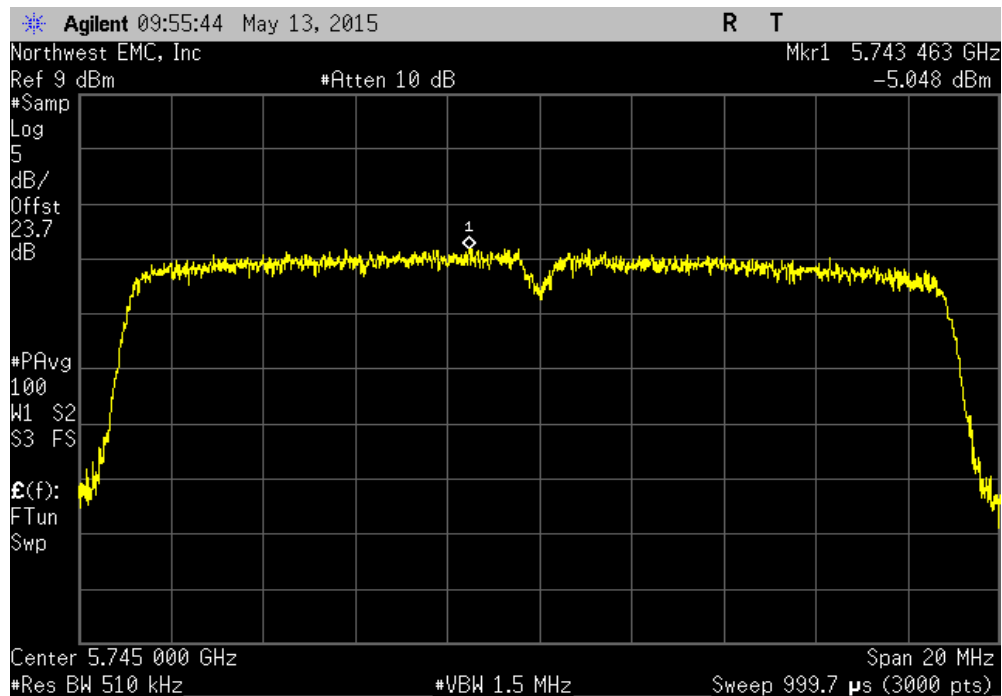


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS0, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-3.556	30	Pass			

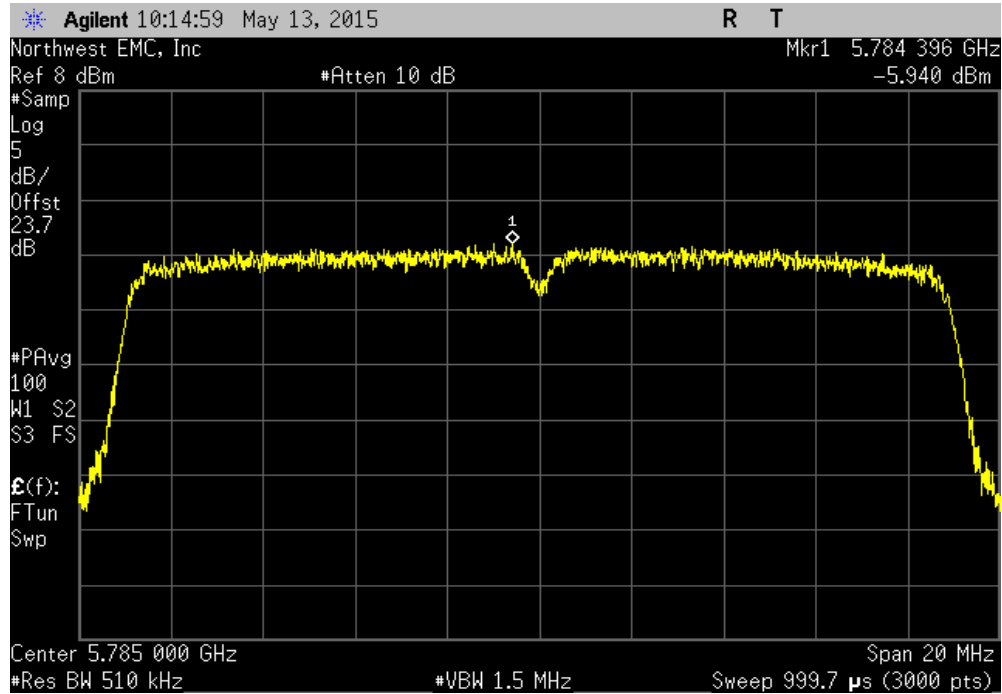


20 MHz, Chain B, 802.11(n) MCS7, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.048	30	Pass			

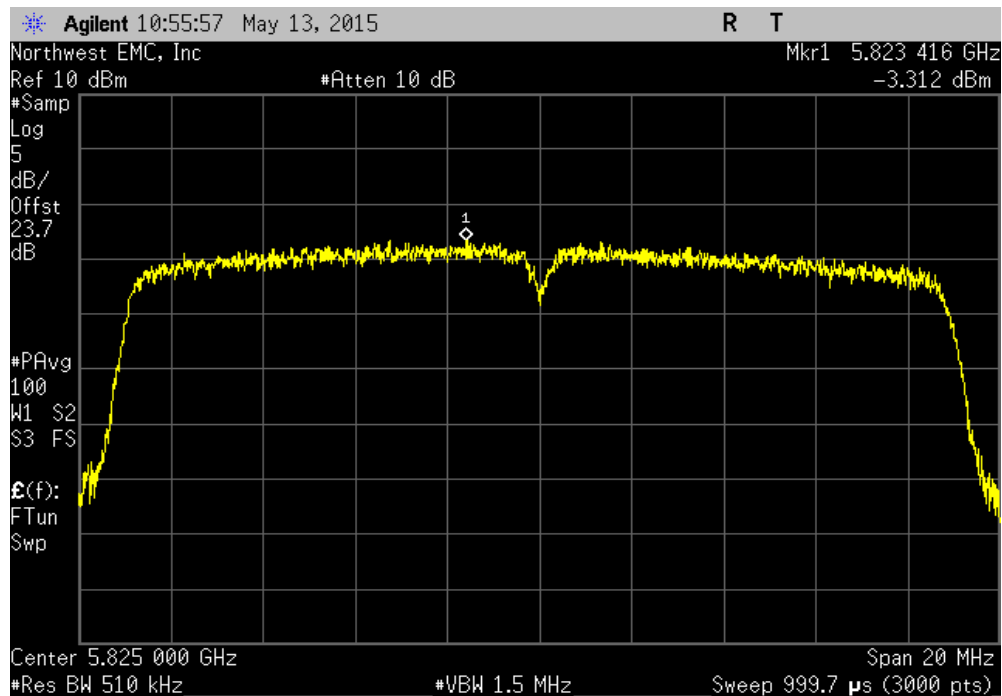


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain B, 802.11(n) MCS7, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.94	30	Pass			

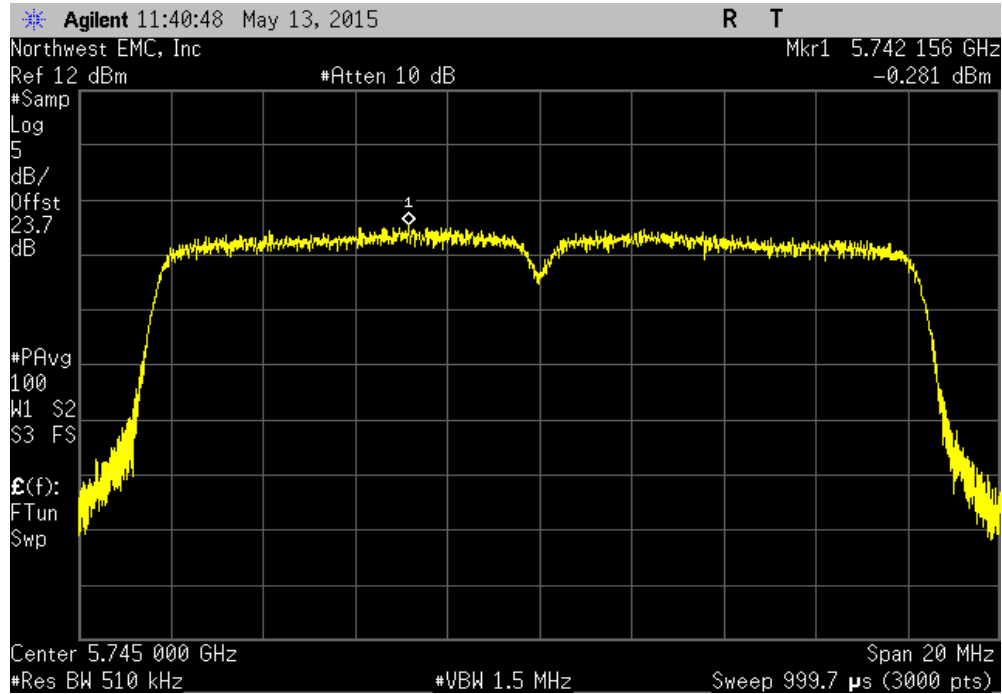


20 MHz, Chain B, 802.11(n) MCS7, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-3.312	30	Pass			

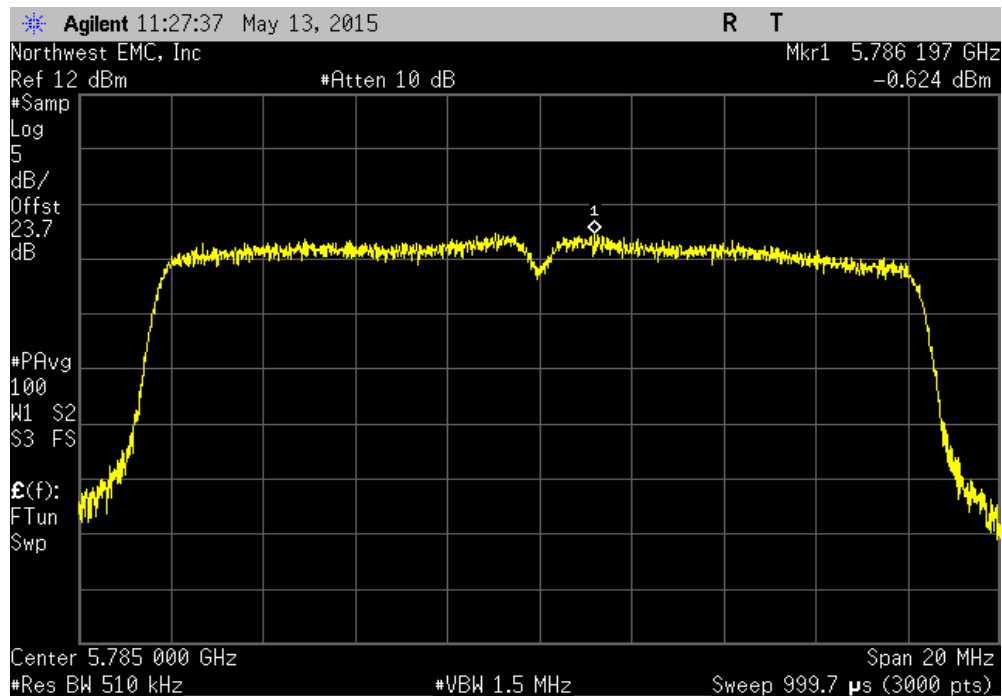


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-0.281	30	Pass			

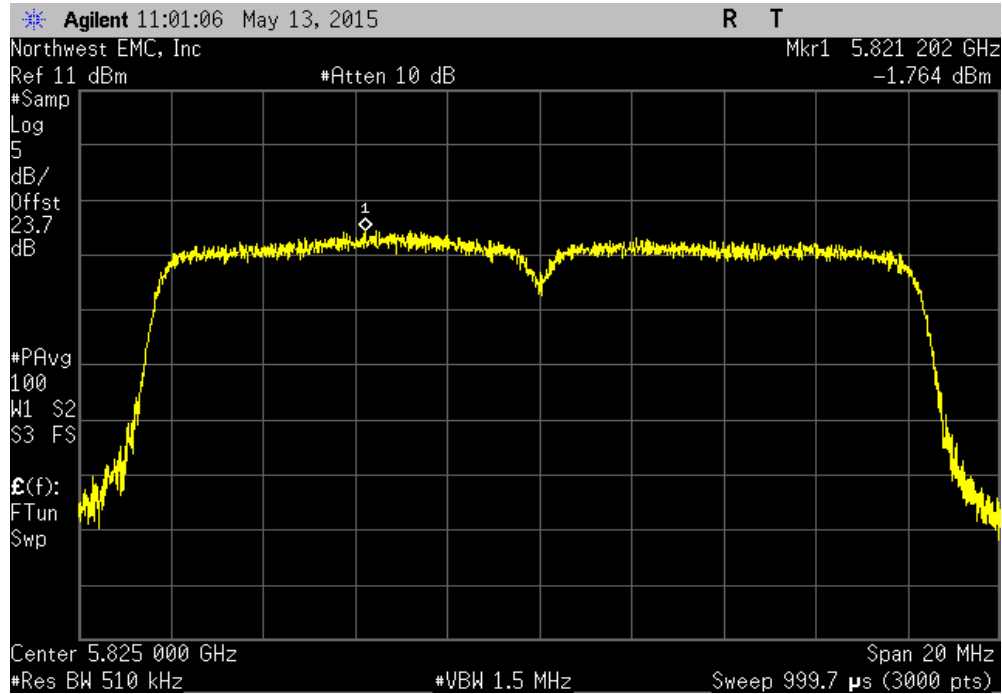


20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-0.624	30	Pass			

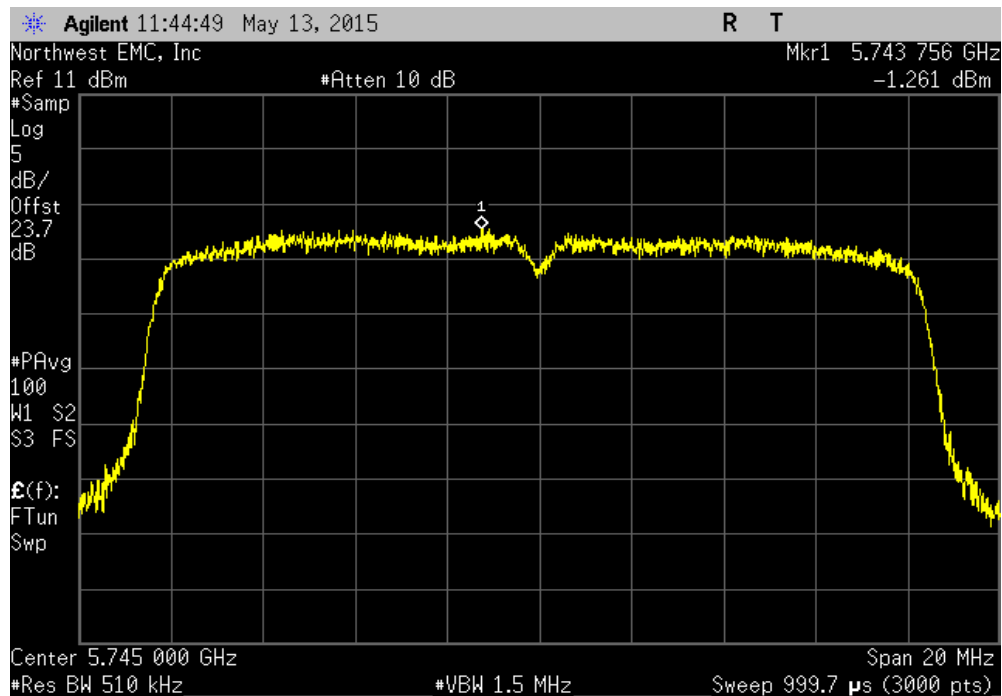


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(a) 6 Mbps, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.764	30	Pass			



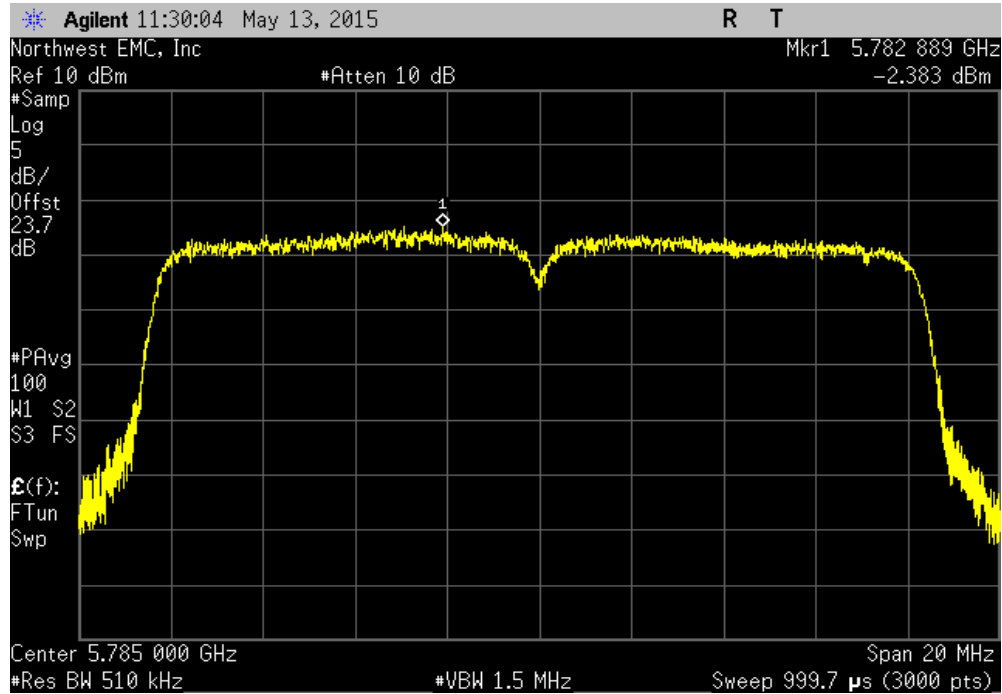
20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-1.261	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

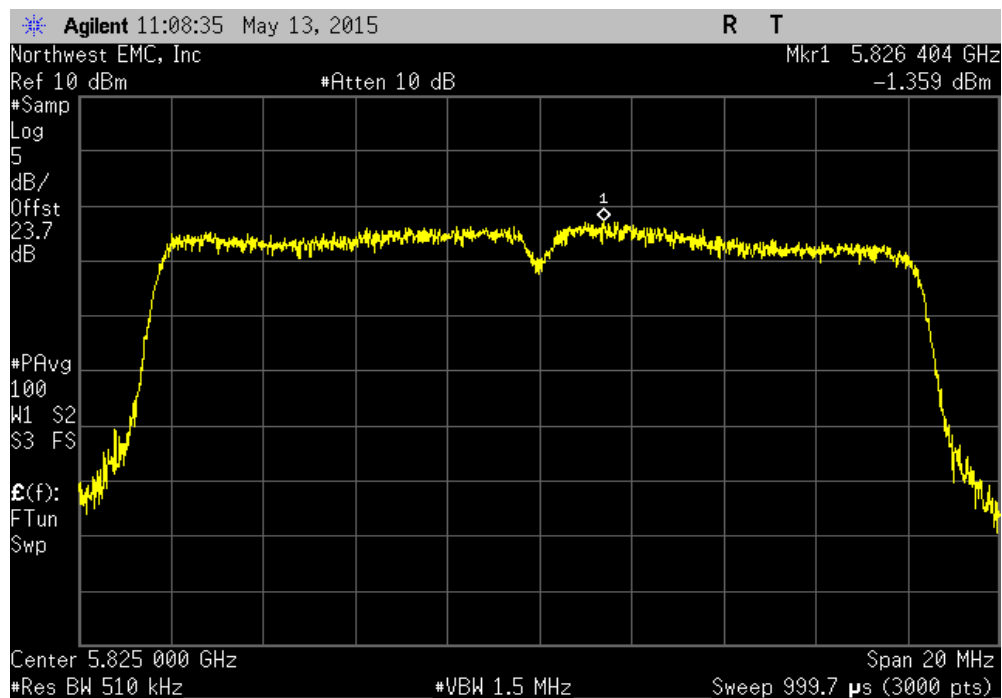
20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 157, Mid Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-2.383	30	Pass



20 MHz, Chain C, 802.11(a) 36 Mbps, Channel 165, High Channel

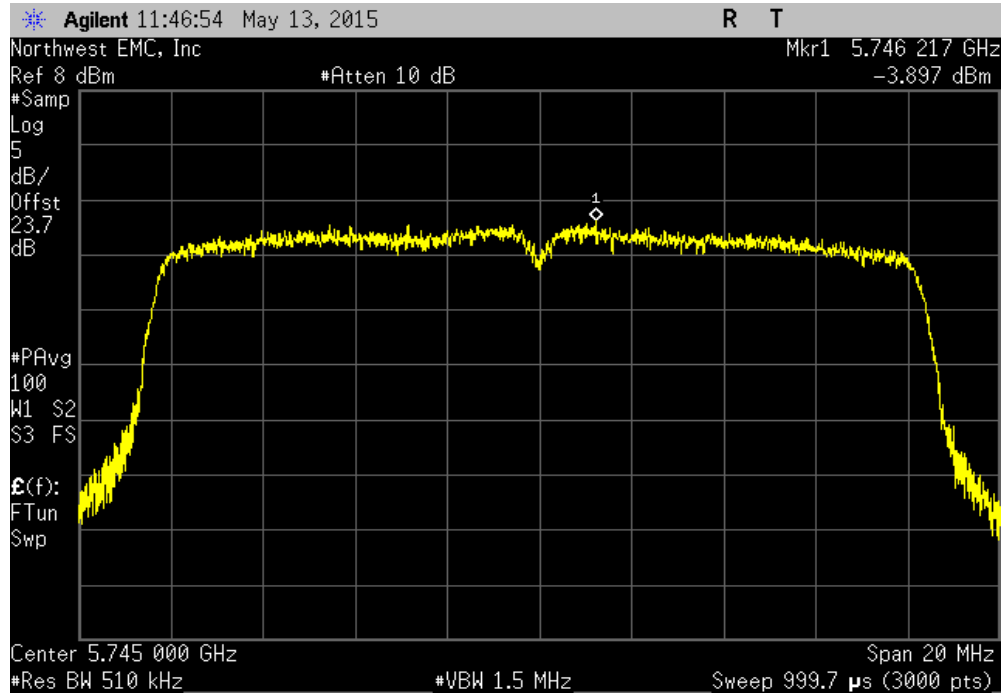
Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-1.359	30	Pass



PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

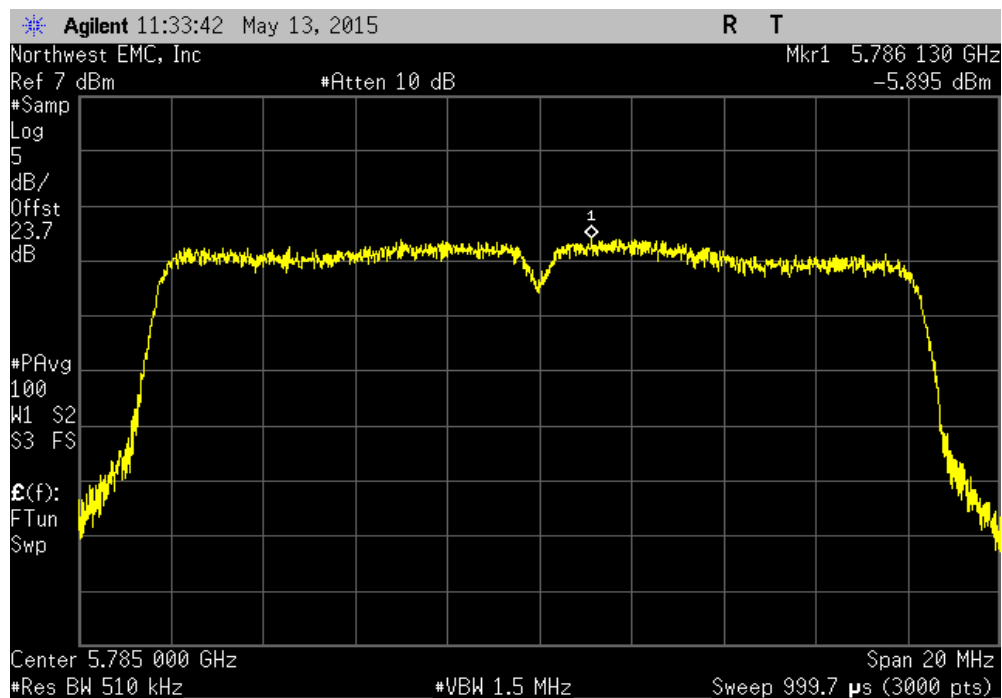
20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 149, Low Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-3.897	30	Pass



20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 157, Mid Channel

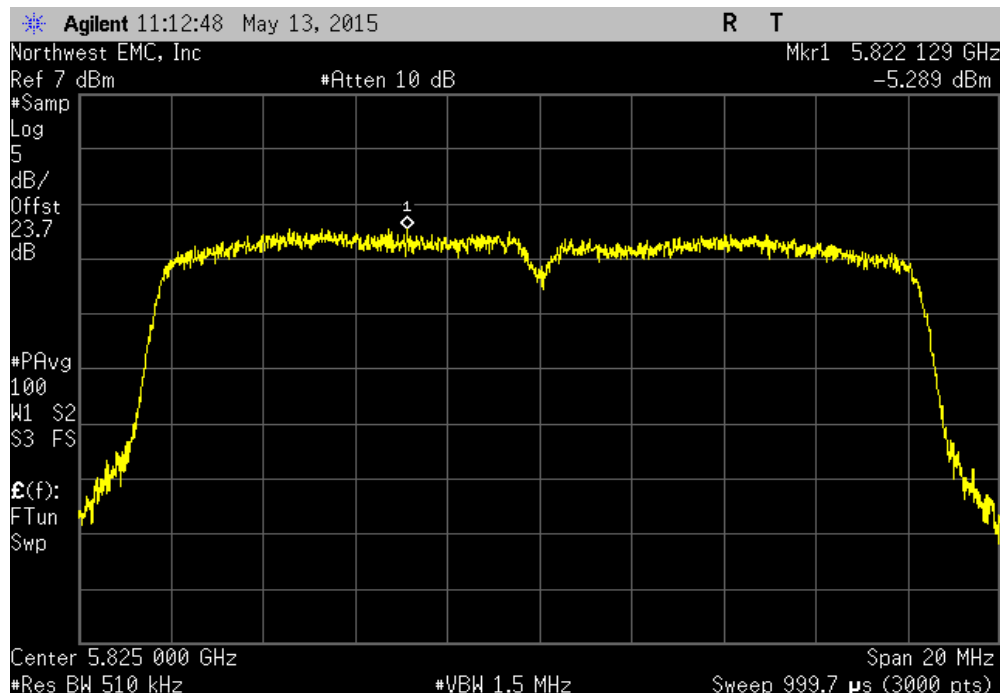
Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-5.895	30	Pass



PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

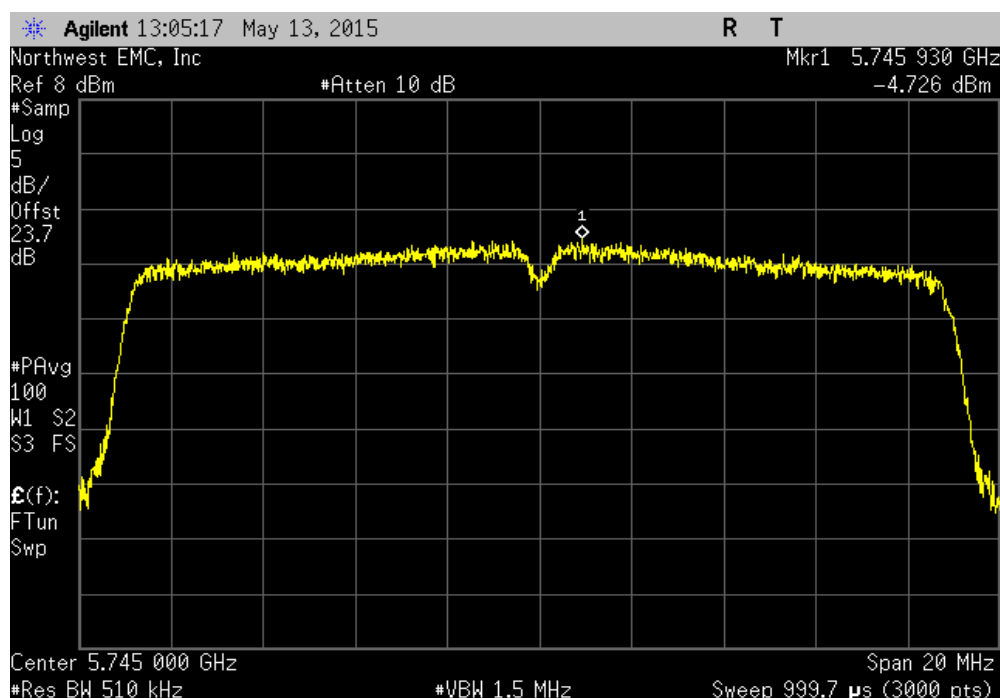
20 MHz, Chain C, 802.11(a) 54 Mbps, Channel 165, High Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-5.289	30	Pass



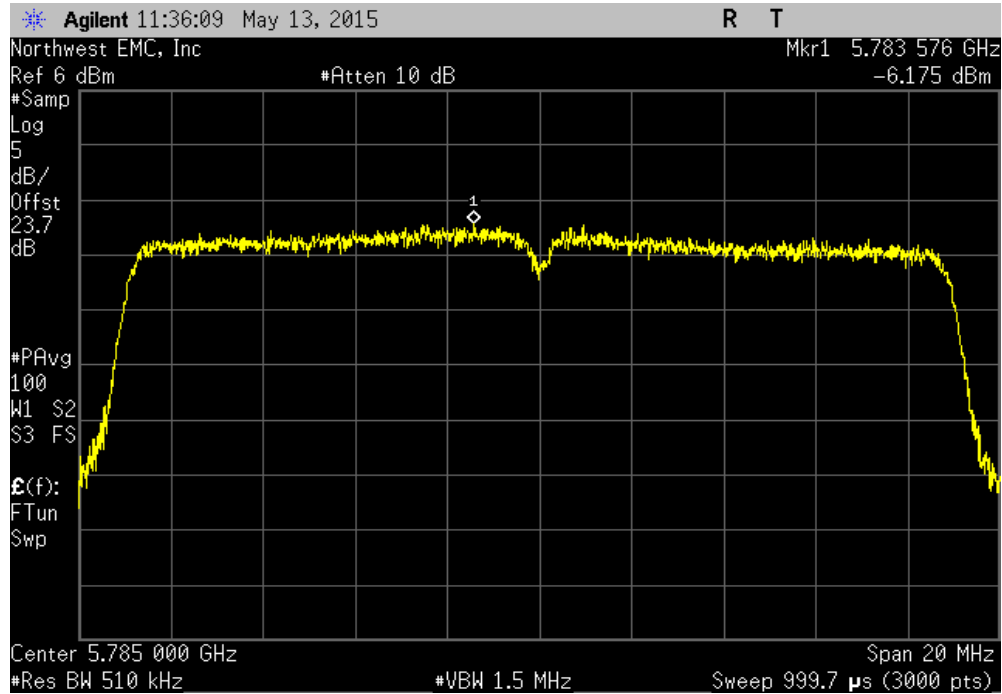
20 MHz, Chain C, 802.11(n) MCS0, Channel 149, Low Channel

Value	Limit	Results
(dBm / MHz)	(dBm / Ref BW)	
-4.726	30	Pass

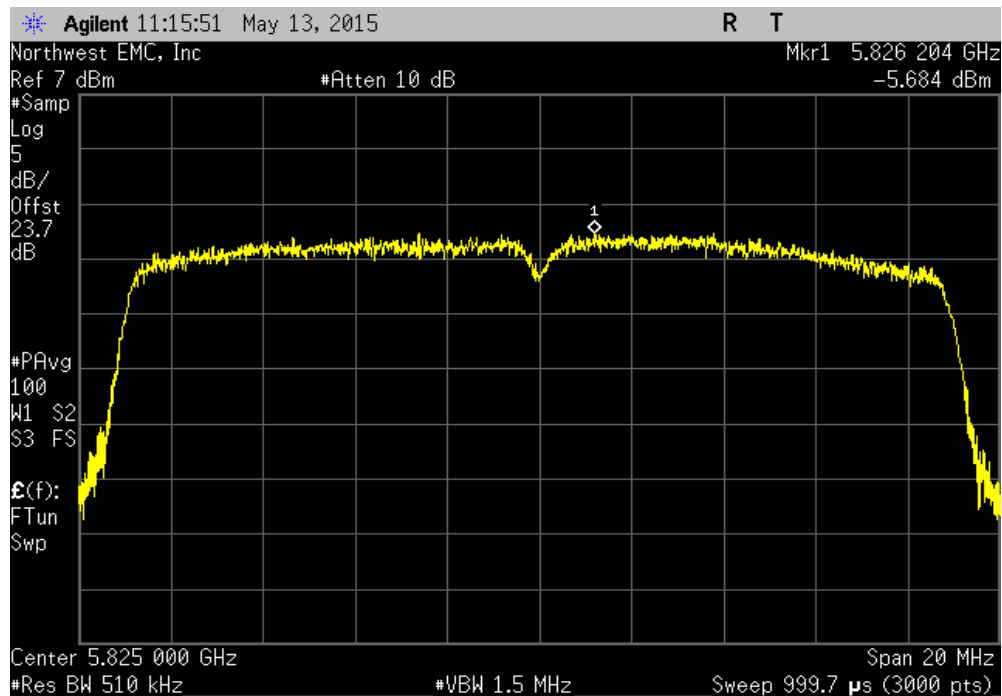


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS0, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-6.175	30	Pass			

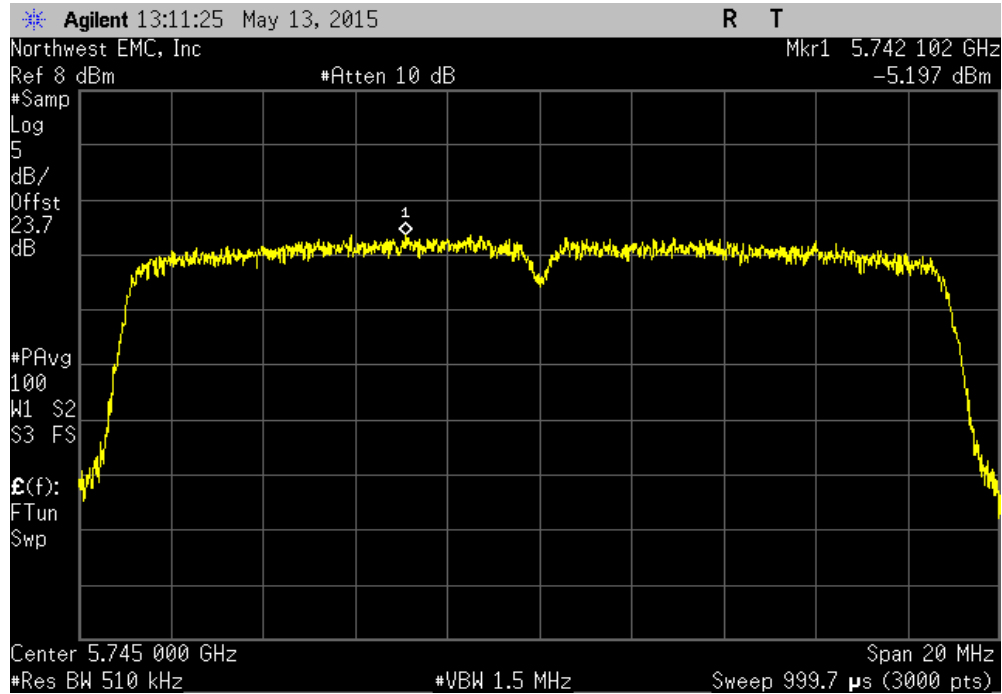


20 MHz, Chain C, 802.11(n) MCS0, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.684	30	Pass			

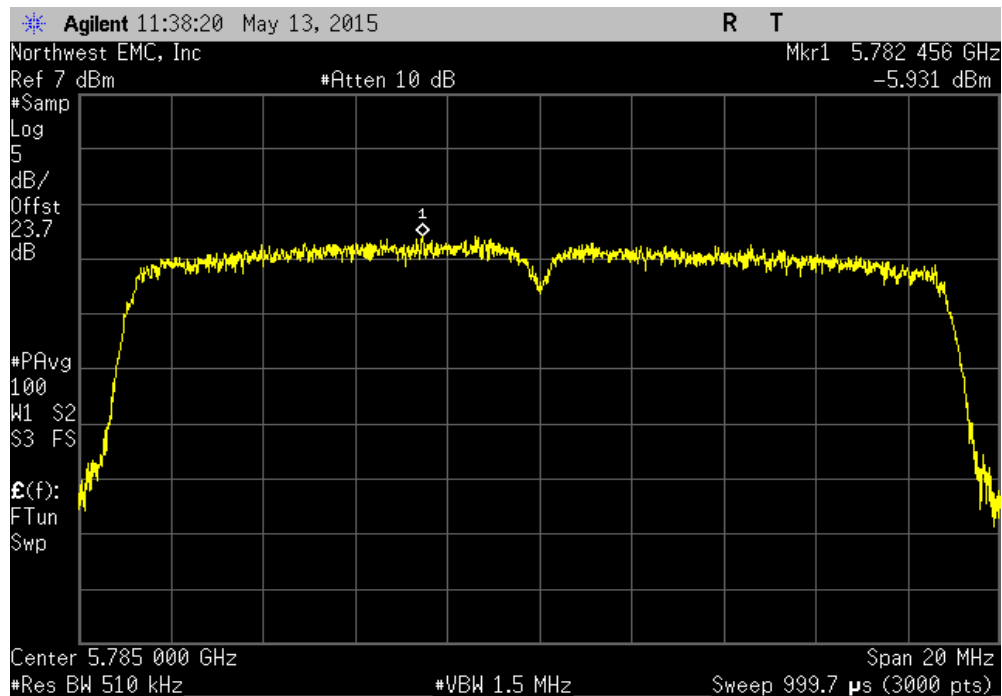


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS7, Channel 149, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.197	30	Pass			

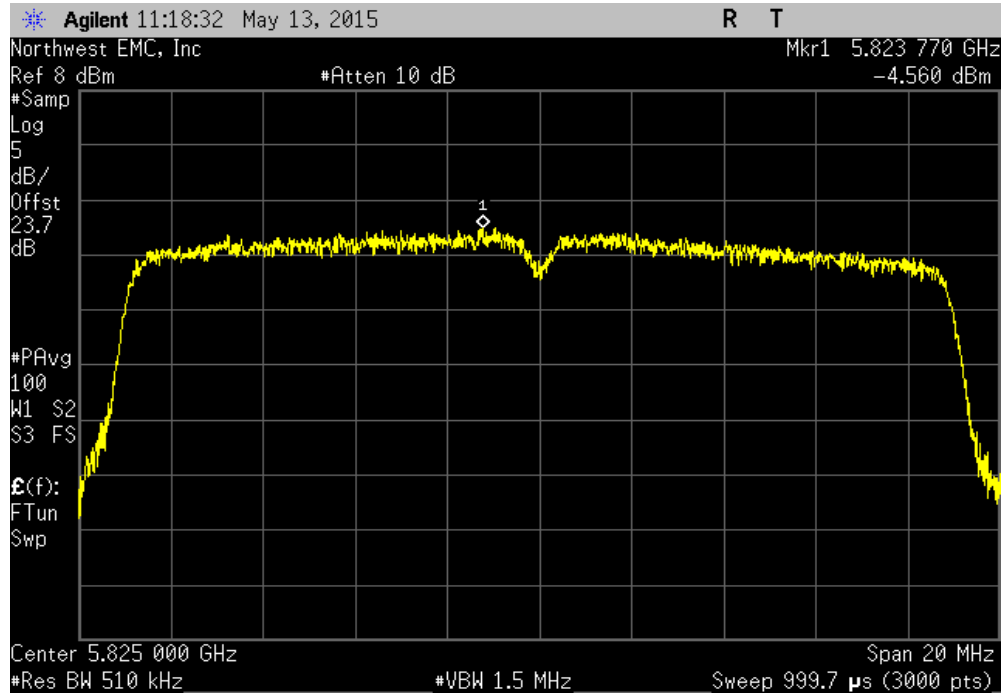


20 MHz, Chain C, 802.11(n) MCS7, Channel 157, Mid Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-5.931	30	Pass			

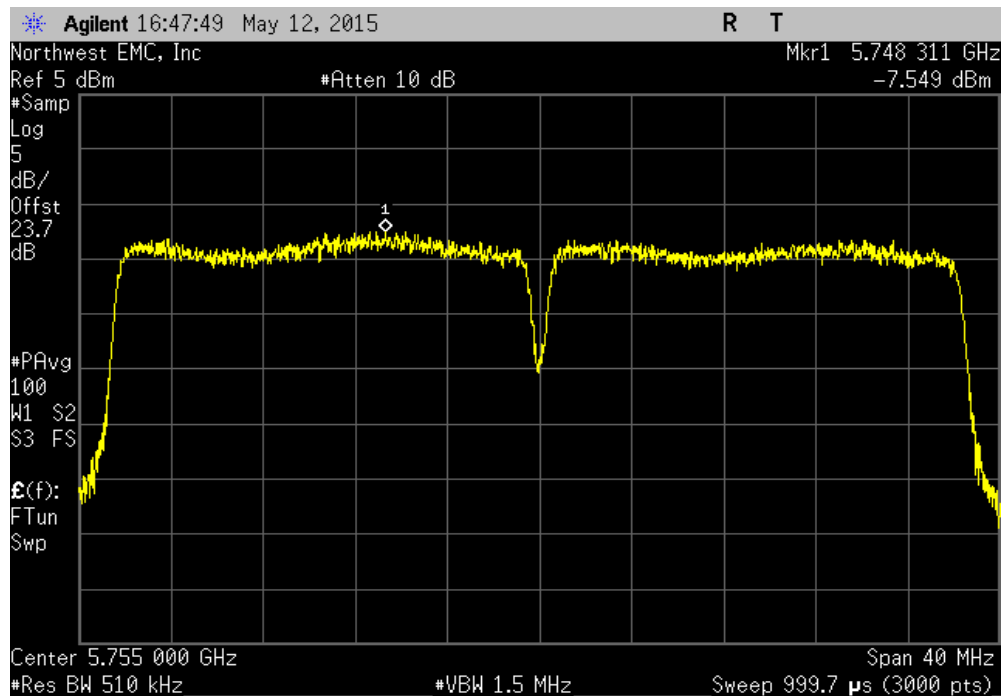


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

20 MHz, Chain C, 802.11(n) MCS7, Channel 165, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-4.56	30	Pass			

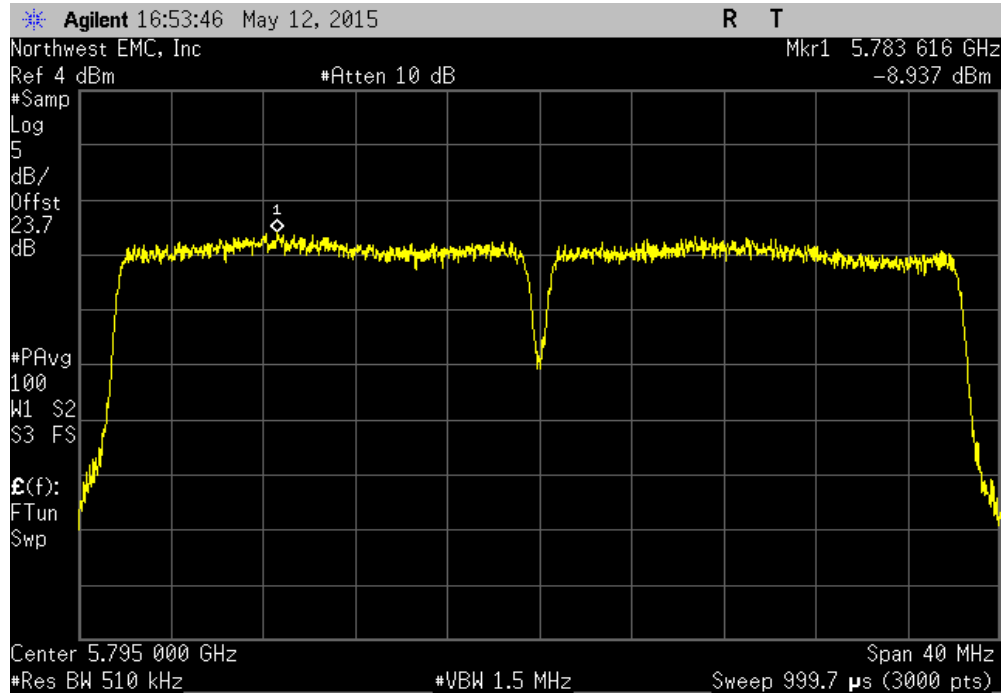


40 MHz, Chain A, 802.11(n) MCS0, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-7.549	30	Pass			

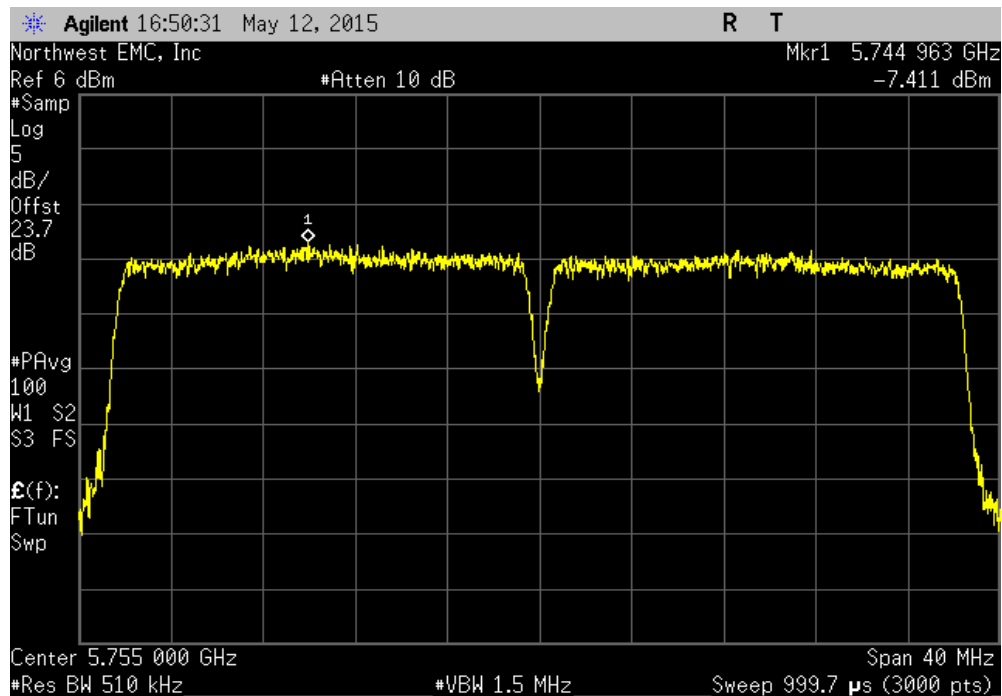


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

40 MHz, Chain A, 802.11(n) MCS0, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-8.937	30	Pass			

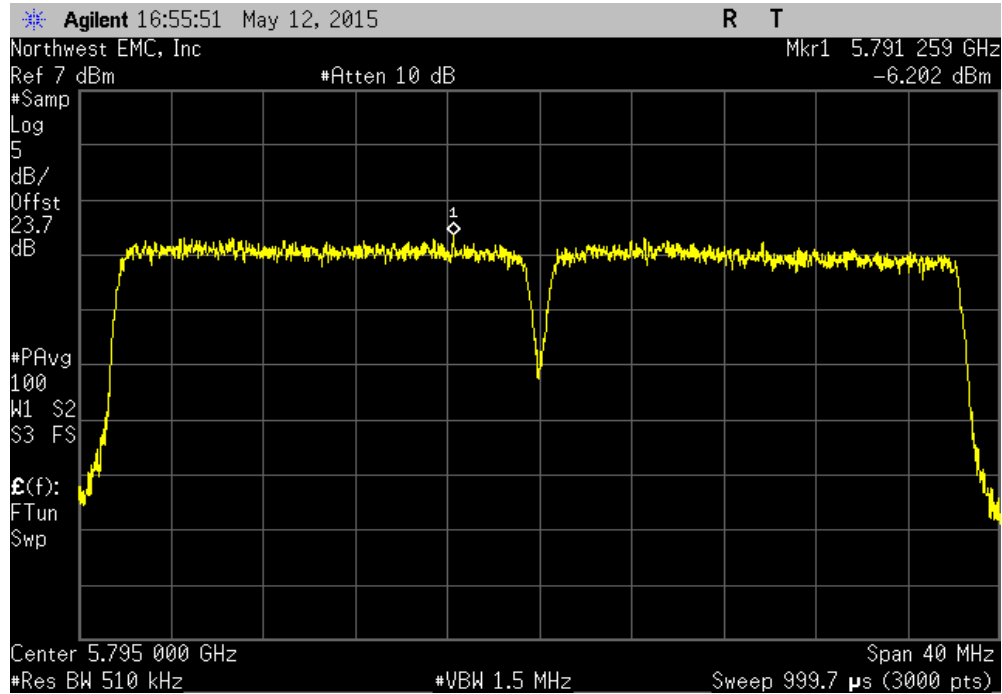


40 MHz, Chain A, 802.11(n) MCS7, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-7.411	30	Pass			

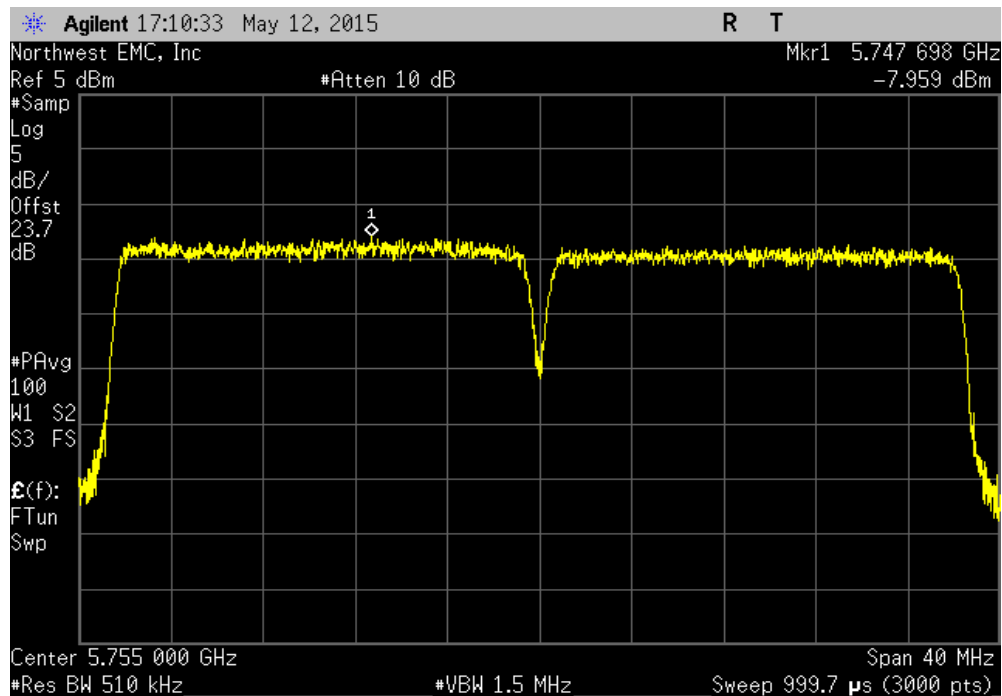


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

40 MHz, Chain A, 802.11(n) MCS7, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-6.202	30	Pass			

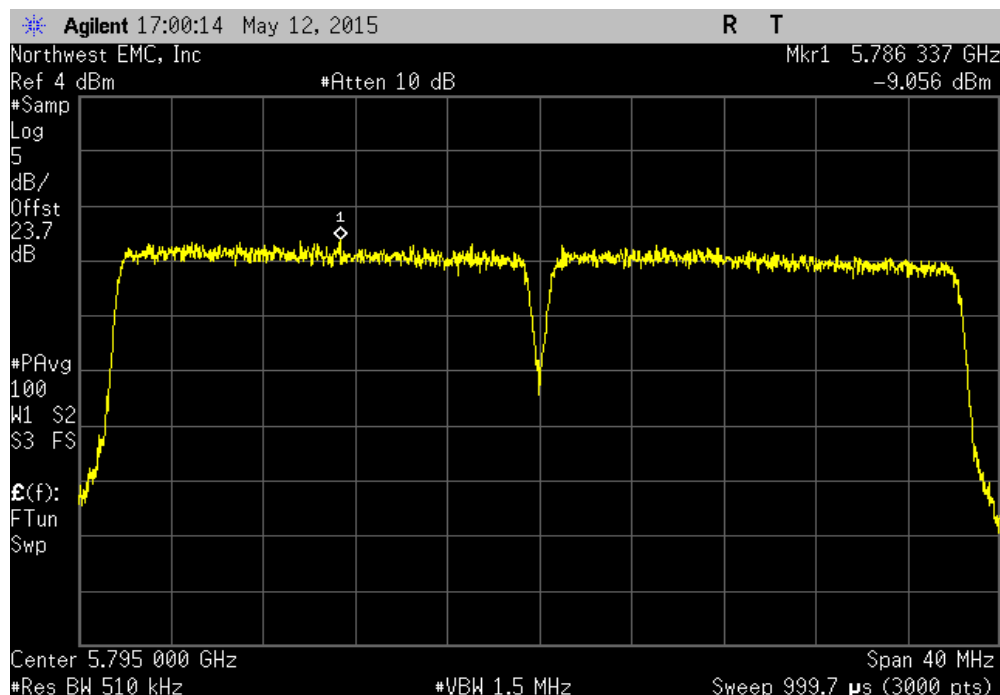


40 MHz, Chain B, 802.11(n) MCS0, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-7.959	30	Pass			

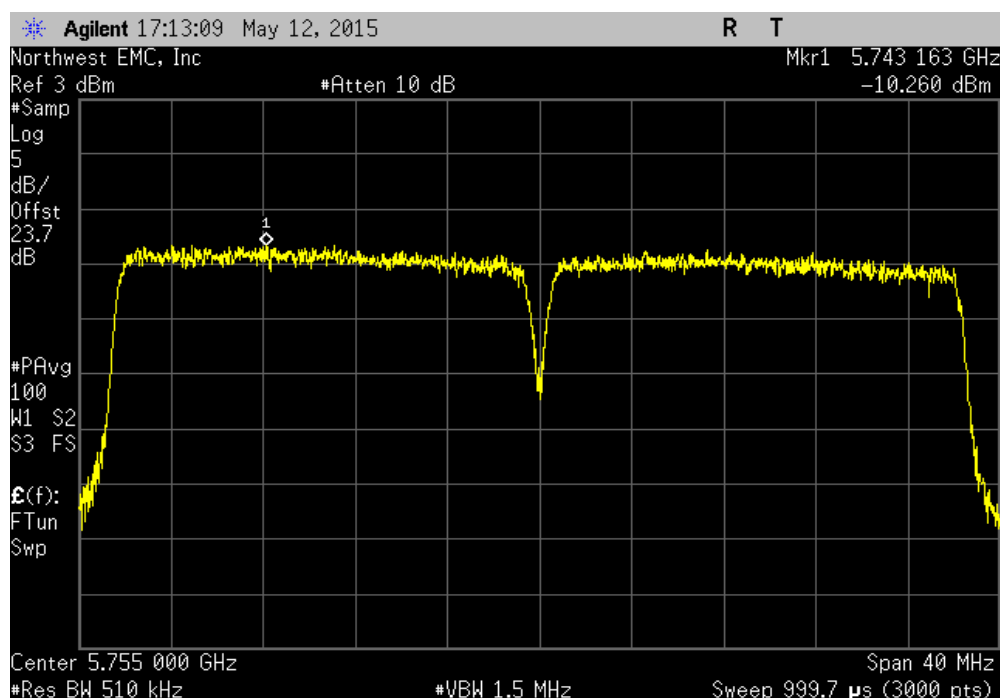


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

40 MHz, Chain B, 802.11(n) MCS0, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-9.056	30	Pass			

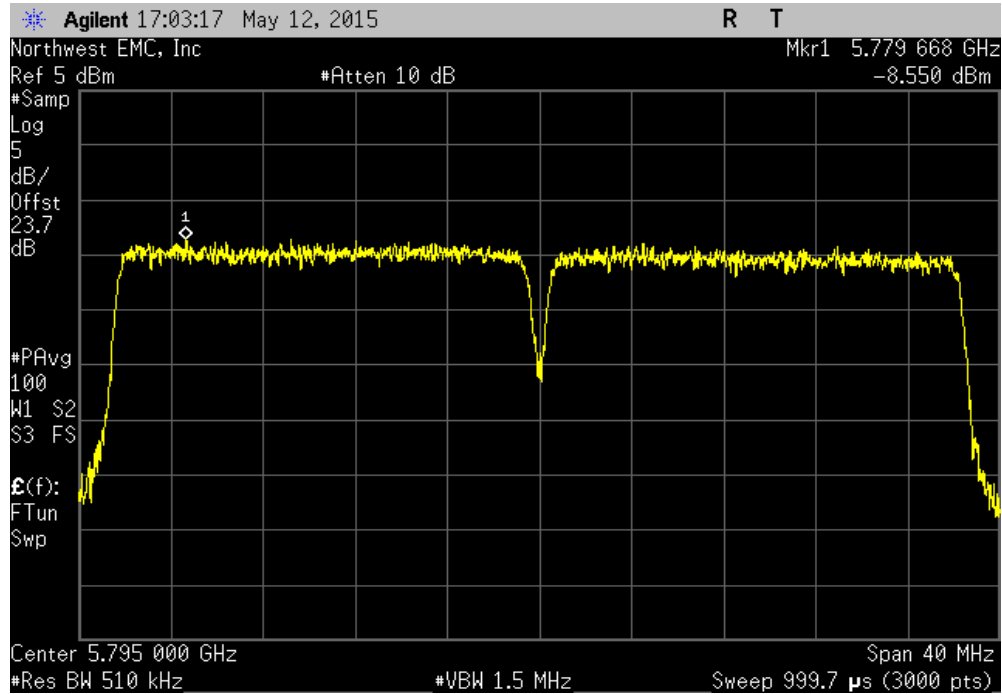


40 MHz, Chain B, 802.11(n) MCS7, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-10.26	30	Pass			

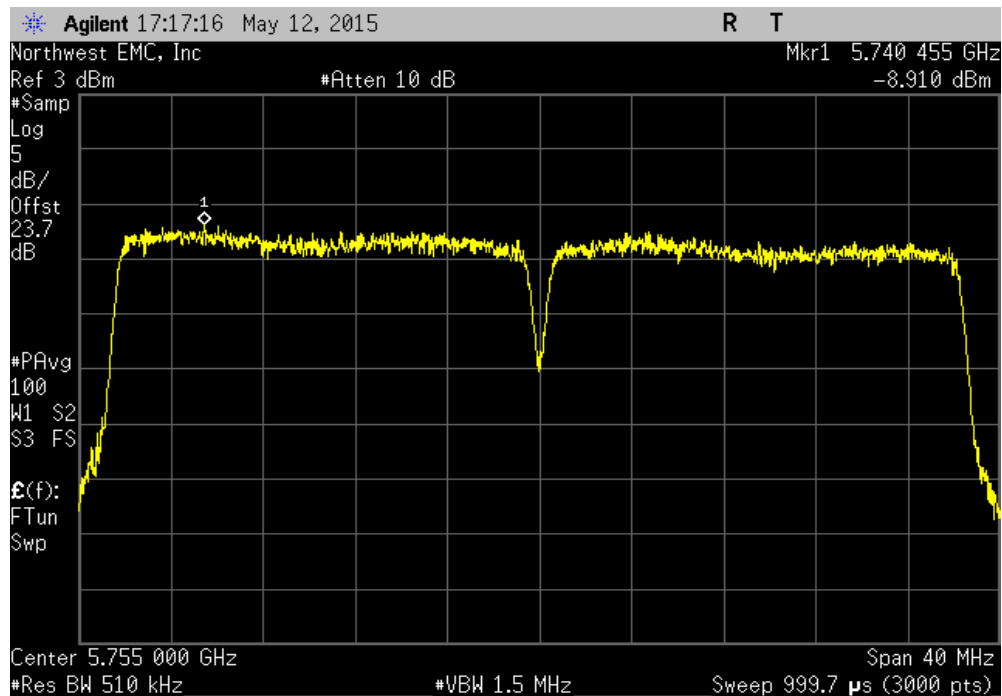


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

40 MHz, Chain B, 802.11(n) MCS7, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-8.55	30	Pass			

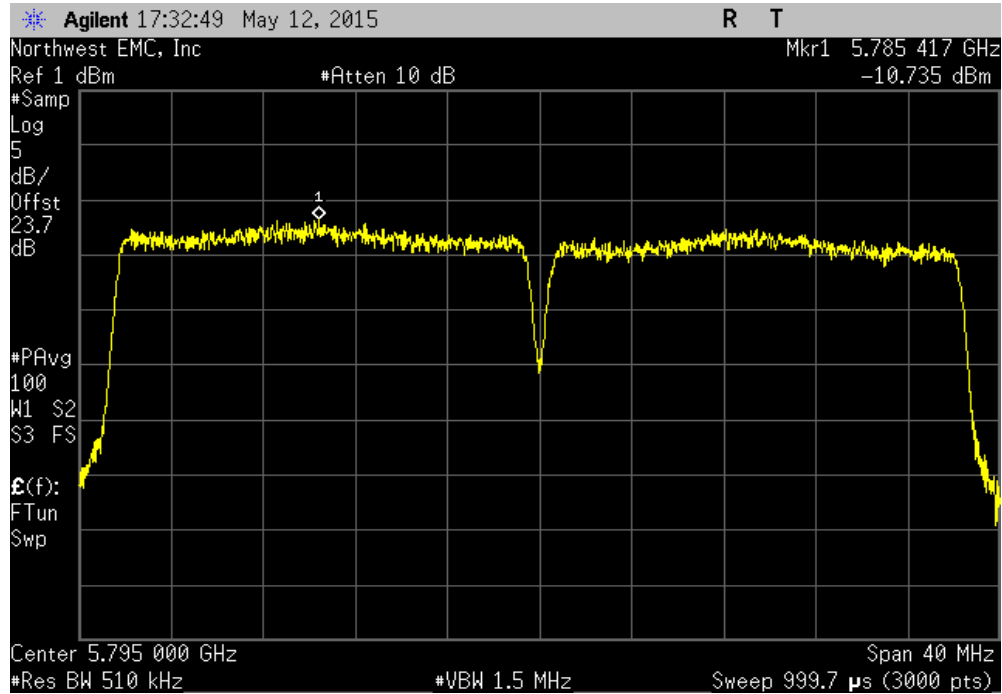


40 MHz, Chain C, 802.11(n) MCS0, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-8.91	30	Pass			

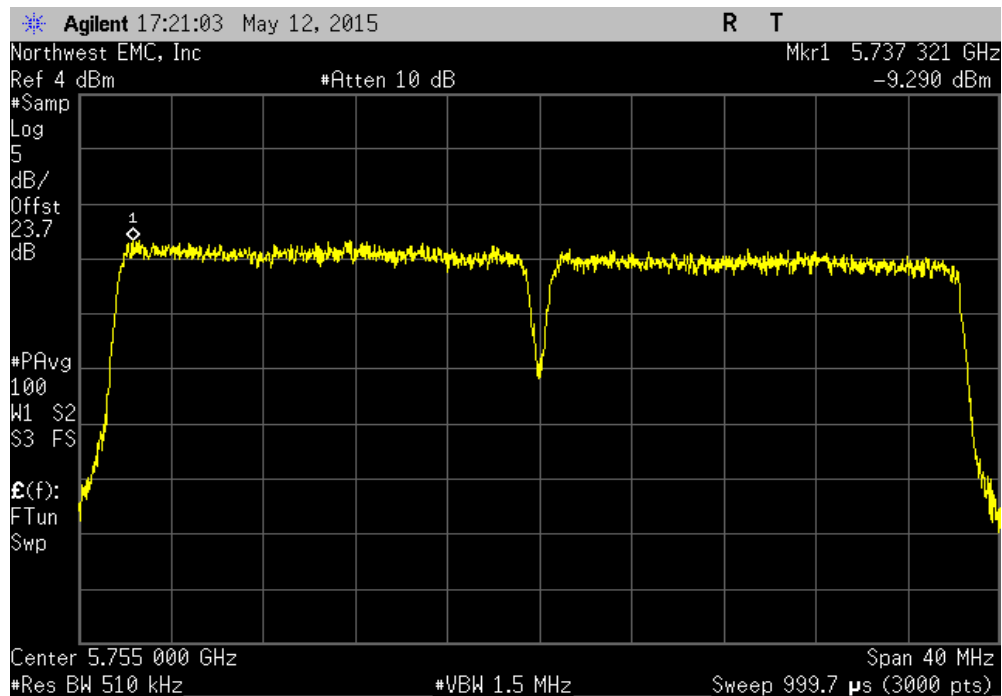


PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

40 MHz, Chain C, 802.11(n) MCS0, Channel 157/161, High Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-10.735	30	Pass			

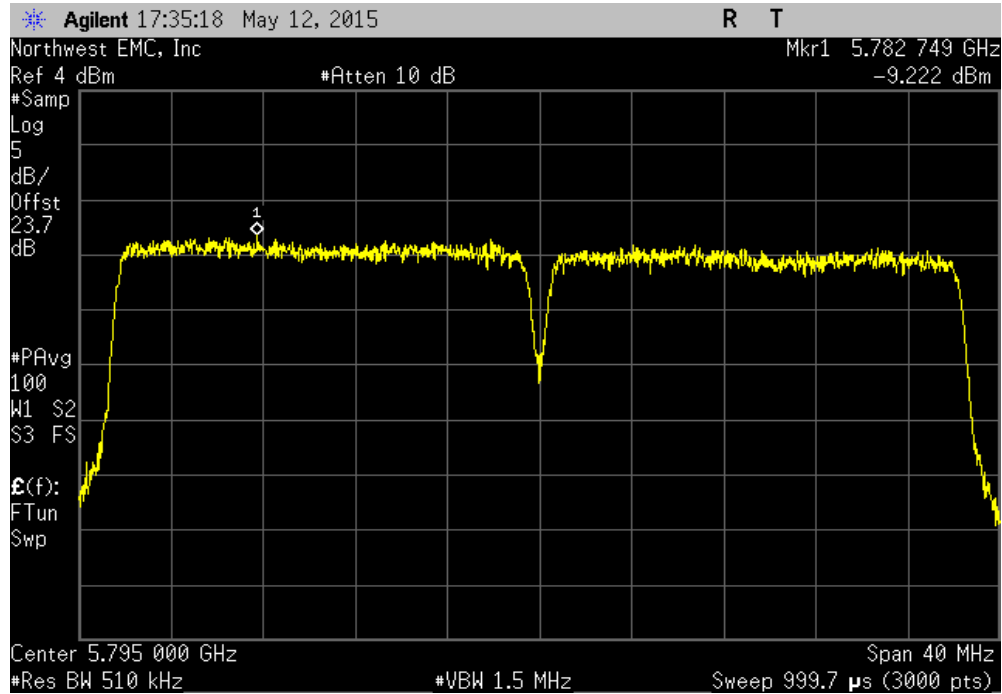


40 MHz, Chain C, 802.11(n) MCS7, Channel 149/153, Low Channel						
	Value	Limit				
	(dBm / MHz)	(dBm / Ref BW)	Results			
	-9.29	30	Pass			



PEAK POWER SPECTRAL DENSITY - 5.8GHz SINGLE

40 MHz, Chain C, 802.11(n) MCS7, Channel 157/161, High Channel						
				Value	Limit	Results
				(dBm / MHz)	(dBm / Ref BW)	
				-9.222	30	Pass



DUTY CYCLE

TEST DESCRIPTION

The transmission pulse duration (T) and Duty Cycle (x) were measured for each of the EUT operating modes per the FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, a duty cycle correction factor in dB can be calculated to add to power measurements if required in the method guidance.

$$10 * \text{LOG} (1/x) = \text{dB}$$

The EUT was operating at 100% duty cycle