

NORTHWEST EMC

FUJIFILM Sonosite Manufacturing, LLC

iViz

FCC 15.407:2015

802.11 an Radio

Report # SONO0377.5 Rev 01



NVLAP Lab Code: 200676-0

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: August 25, 2015
FUJIFILM Sonosite Manufacturing, LLC
Model: iViz

Radio Equipment Testing

Standards

Specification	Method
FCC 15.407:2015	ANSI C63.10:2013

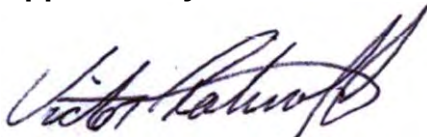
Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required for permissive change.
6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	
6.8	Frequency Stability	No	N/A	Not required for permissive change.
6.9.1	Emission Bandwidth	No	N/A	Not required for permissive change.
6.9.1	Occupied Bandwidth	No	N/A	Not required for permissive change.
6.10.3	Peak Transmit Power	Yes	Pass	
6.11.1	Peak Power Spectral Density	Yes	Pass	
7.5	Duty Cycle	Yes	N/A	
KDB 789033 D02 - Section H	Measurement of Emission at Elevation Angle Higher Than 30 Degrees From Horizon	No	N/A	Not required for permissive change.

Deviations From Test Standards

None

Approved By:



Victor Ratinoff, 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
01	Corrected serial number of EUT	9/25/2015	8, 11-15, 19, 46
01	Added Duty Cycle data sheets	9/29/2015	72-124
01	Added duty cycle in modifications and Certificate of test pages	9/29/2015	2, 9
01	Edited testing objective in product description	9/29/2015	7

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.

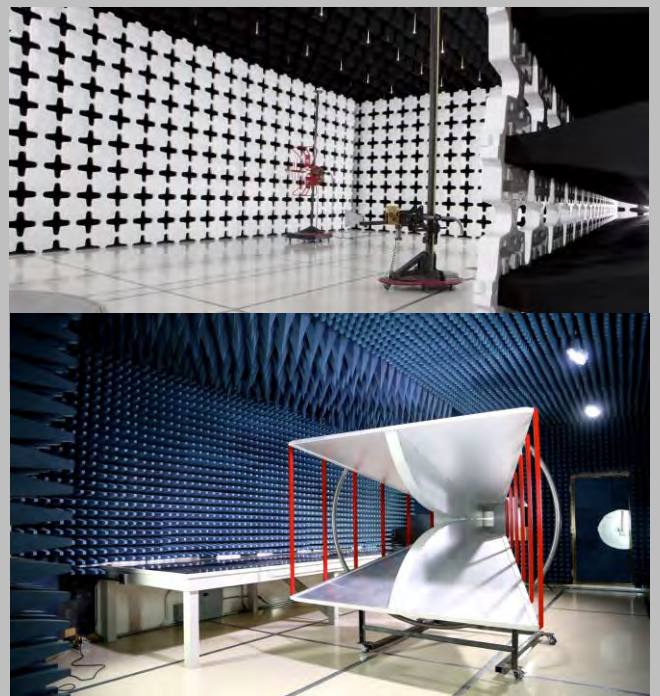
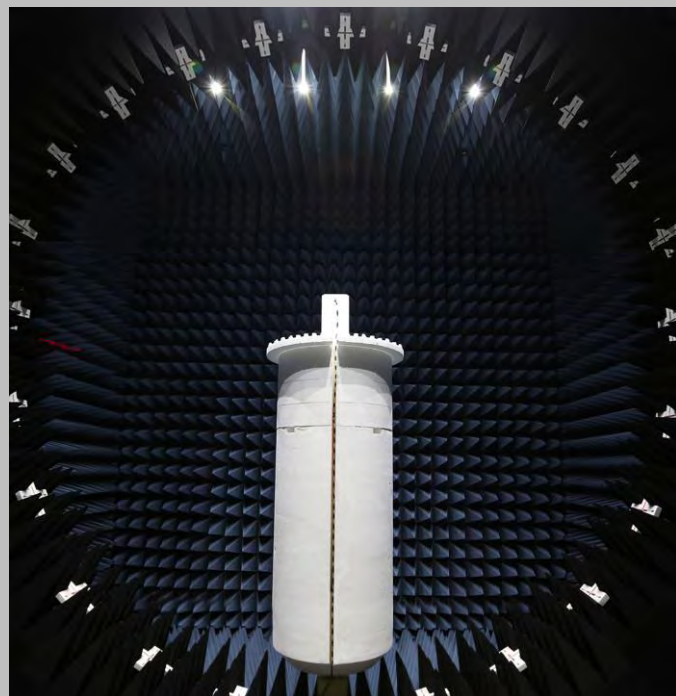
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

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)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 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:	FUJIFILM Sonosite Manufacturing, LLC
Address:	21919 30th Drive SE
City, State, Zip:	Bothell, WA 98021
Test Requested By:	Niko Pagoulatos
Model:	IViz
First Date of Test:	August 20, 2015
Last Date of Test:	August 25, 2015
Receipt Date of Samples:	August 05, 2015
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:
EUT is a tablet ultrasound device that is fully portable. It is battery operated only and has a WiFi and Bluetooth radio built in.
Testing Objective:
Provide the testing required to demonstrate continued compliance with the new antenna, not included in the original filing. Since it was only the antenna that was changed, minimal testing to address the change is included in this report.

CONFIGURATIONS

Configuration SONO0377- 1

Software/Firmware Running during test	
Description	Version
iViz software	05.80.100.020

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Media Player	FUJIFILM Sonosite Manufacturing, LLC	iViz	Q402KJ

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	Fujitsu	Lifebook E752	R4200141
Laptop Power Supply	Fujitsu	CP531930-01	13Z01944C

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Cable	No	1.8m	No	Media Player	Laptop
Sensor Cable	Yes	1.4m	No	Media Player	Unterminated
AC Cable	No	2.0m	No	Laptop Power Supply	AC Mains
DC Cable	No	1.8m	No	Laptop Power Supply	Laptop

Configuration SONO0377- 2

Software/Firmware Running during test	
Description	Version
iViz software	05.80.100.020

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Media Player	FUJIFILM Sonosite Manufacturing, LLC	iViz	Q402KJ

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	Fujitsu	Lifebook E752	R4200141
Laptop Power Supply	Fujitsu	CP531930-01	13Z01944C

Cables					
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Sensor Cable	Yes	1.4m	No	Media Player	Unterminated
AC Cable	No	2.0m	No	Laptop Power Supply	AC Mains
DC Cable	No	1.8m	No	Laptop Power Supply	Laptop

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	8/22/2015	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.
2	8/25/2015	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.
3	8/25/2015	Duty Cycle	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	8/25/2015	Peak Power Spectral Density	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. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Continuous transmit 802.11an

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

SONO0377 - 1

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
Antenna - Double Ridge	ETS Lindgren	3117	AHQ	9/12/2012	36 mo
Generator - Signal	Agilent	E8257D	TGU	2/5/2015	36 mo
Filter - Low Pass	Micro-Tronics	LPM50004	LFC	11/14/2014	12 mo
Attenuator	Coaxicom	66702 3910AF-20	TKH	3/4/2015	12 mo
Filter - Band Pass/Notch	Micro-Tronics	BRC50705	HFQ	3/4/2015	12 mo
Filter - Band Pass/Notch	Micro-Tronics	BRC50704	HGB	3/4/2015	12 mo
Filter - Band Pass/Notch	Micro-Tronics	BRC50703	HGH	6/11/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVQ	12/30/2014	12 mo
Cable	ESM Cable Corp.	KMKM-72	OC1	2/27/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	12/31/2014	12 mo
Antenna - Standard Gain	EMCO	3160-09	AHN	NCR	0 mo
Cable	Northwest EMC	18-26GHz RE Cables	OCK	2/27/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	9/11/2014	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-08	AHT	NCR	0 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	9/11/2014	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-07	AHR	NCR	0 mo
Cable	Northwest EMC	8-18GHz RE Cables	OCO	9/11/2014	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	3/2/2015	12 mo
Antenna - Double Ridge	EMCO	3115	AHB	3/10/2014	24 mo
Cable	Northwest EMC	1-8GHz RE Cables	OCJ	3/2/2015	12 mo
Antenna - Biconilog	EMCO	3142B	AXK	10/6/2014	24 mo
Cable	Northwest EMC	10kHz-1GHz RE Cables	OCH	3/4/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AM-1064-9079	AOO	3/5/2015	12 mo
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFJ	10/1/2014	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 was tested. The EUT was configured for the required transmit frequency in each operational band and the modes as showed in the data sheets.

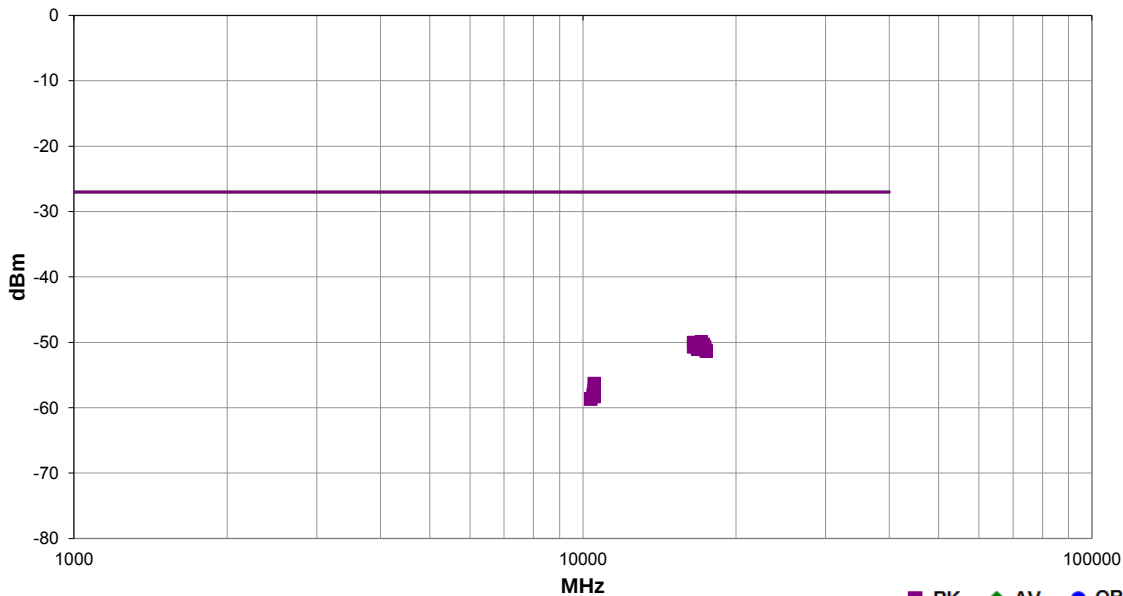
For each configuration, the spectrum was scanned throughout the specified range. Measurements were made to satisfy the three requirements of 47 CFR 15.407: Field strength under 1GHz, Restricted Bands of 47 CFR 15.205, and EIRP of 47 CFR 15.407.

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 C63.10-2013). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

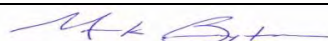
Work Order:	SONO0377	Date:	08/20/15	
Project:	None	Temperature:	22.4 °C	
Job Site:	OC10	Humidity:	46.1% RH	
Serial Number:	Q402KJ	Barometric Pres.:	1011 mbar	
EUT:	iViz			
Configuration:	1			
Customer:	FUJIFILM Sonosite Manufacturing, LLC			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Continuous transmit 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, frequency, data rate, and polarity.			

Test Specifications	Test Method
FCC 15.407:2015	ANSI C63.10:2013

Run #	130	Test Distance (m)	3	Antenna Height(s)	1 to 3(m)	Results	Pass
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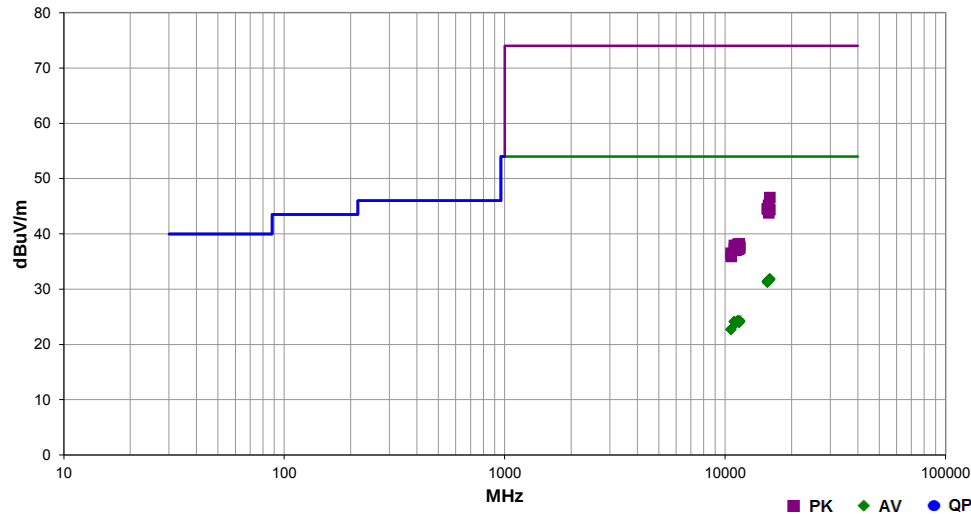


Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
17100.710	1.0	22.0	Horz	PK	1.02E-08	-49.9	-27.0	-22.9	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
16501.440	1.0	340.0	Horz	PK	9.99E-09	-50.0	-27.0	-23.0	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
17099.760	1.0	12.0	Vert	PK	9.75E-09	-50.1	-27.0	-23.1	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
17235.240	1.0	210.0	Horz	PK	9.33E-09	-50.3	-27.0	-23.3	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
17233.620	1.0	21.0	Vert	PK	8.92E-09	-50.5	-27.0	-23.5	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
17354.850	1.0	217.0	Vert	PK	8.58E-09	-50.7	-27.0	-23.7	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
16501.150	1.0	81.0	Vert	PK	8.50E-09	-50.7	-27.0	-23.7	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
16800.090	1.0	107.0	Vert	PK	8.36E-09	-50.8	-27.0	-23.8	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
17355.330	1.0	342.0	Horz	PK	8.01E-09	-51.0	-27.0	-24.0	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
16800.870	1.0	74.0	Horz	PK	7.80E-09	-51.1	-27.0	-24.1	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
17473.750	1.0	188.0	Horz	PK	7.39E-09	-51.3	-27.0	-24.3	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps
17474.510	1.0	329.0	Vert	PK	7.39E-09	-51.3	-27.0	-24.3	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps
10518.670	1.0	283.0	Horz	PK	2.34E-09	-56.3	-27.0	-29.3	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
10519.610	1.0	283.0	Horz	PK	1.86E-09	-57.3	-27.0	-30.3	High Ch 48 (5240 MHz), EUT Vert, MCS0
10520.900	1.0	78.0	Vert	PK	1.74E-09	-57.6	-27.0	-30.6	High Ch 48 (5240 MHz), EUT Vert, MCS0
10519.090	1.0	78.0	Vert	PK	1.62E-09	-57.9	-27.0	-30.9	High Ch 48 (5240 MHz), EUT Vert, 36 Mbps
10518.950	1.0	78.0	Vert	PK	1.62E-09	-57.9	-27.0	-30.9	High Ch 48 (5240 MHz), EUT Vert, 54 Mbps
10521.490	1.0	78.0	Vert	PK	1.62E-09	-57.9	-27.0	-30.9	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
10480.420	1.0	73.0	Horz	PK	1.59E-09	-58.0	-27.0	-31.0	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
10519.250	1.0	283.0	Horz	PK	1.59E-09	-58.0	-27.0	-31.0	High Ch 48 (5240 MHz), EUT Vert, 54 Mbps
10520.530	1.0	283.0	Horz	PK	1.59E-09	-58.0	-27.0	-31.0	High Ch 48 (5240 MHz), EUT Vert, MCS7
10480.840	1.0	88.0	Vert	PK	1.52E-09	-58.2	-27.0	-31.2	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
10520.990	1.0	283.0	Horz	PK	1.51E-09	-58.2	-27.0	-31.2	High Ch 48 (5240 MHz), EUT Vert, 36 Mbps
10519.620	1.0	78.0	Vert	PK	1.48E-09	-58.3	-27.0	-31.3	High Ch 48 (5240 MHz), EUT Vert, MCS7
10359.040	1.0	229.0	Horz	PK	1.36E-09	-58.7	-27.0	-31.7	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
10359.560	1.0	151.0	Vert	PK	1.36E-09	-58.7	-27.0	-31.7	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps

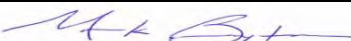
Work Order:	SONO0377	Date:	08/20/15	
Project:	None	Temperature:	22.4 °C	
Job Site:	OC10	Humidity:	46.1% RH	
Serial Number:	Q402KJ	Barometric Pres.:	1011 mbar	
EUT:	iViz			Tested by: Mark Baytan
Configuration:	1			
Customer:	FUJIFILM Sonosite Manufacturing, LLC			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Continuous transmit 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, frequency, data rate, and polarity.			

Test Specifications	Test Method
FCC 15.407:2015	ANSI C63.10:2013

Run #	131	Test Distance (m)	3	Antenna Height(s)	1 to 3(m)	Results	Pass
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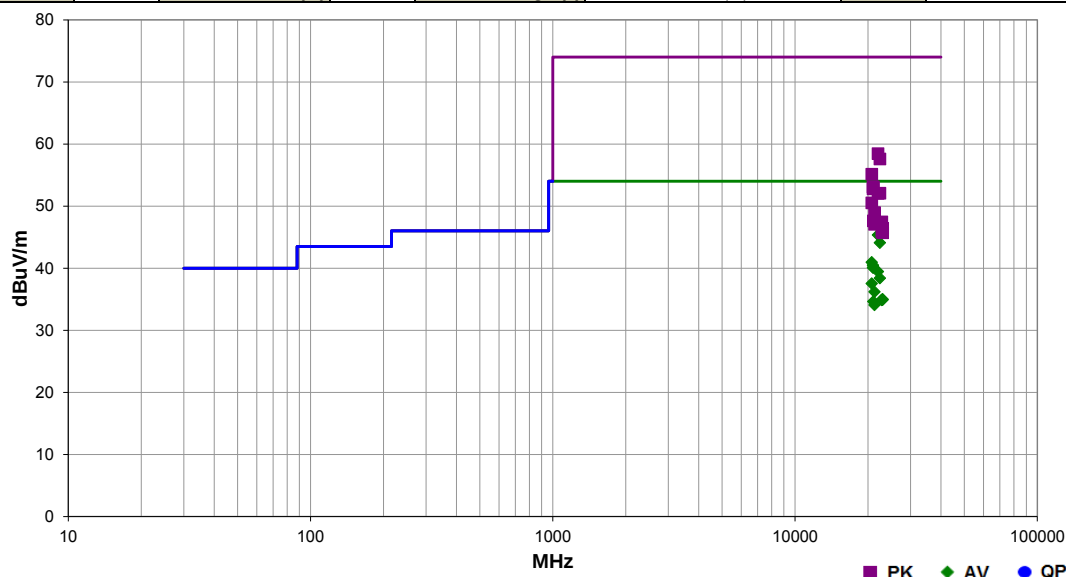


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
15962.250	24.9	7.0	1.0	21.0	3.0	0.0	Horz	AV	0.0	31.9	54.0	-22.1	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
15958.890	24.8	7.0	1.0	81.0	3.0	0.0	Vert	AV	0.0	31.8	54.0	-22.2	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
15777.890	25.0	6.7	1.0	122.0	3.0	0.0	Horz	AV	0.0	31.7	54.0	-22.3	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
15778.710	24.9	6.7	2.5	108.0	3.0	0.0	Vert	AV	0.0	31.6	54.0	-22.4	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
15718.910	25.0	6.6	1.0	361.0	3.0	0.0	Horz	AV	0.0	31.6	54.0	-22.4	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
15718.740	24.9	6.6	1.0	311.0	3.0	0.0	Vert	AV	0.0	31.5	54.0	-22.5	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
15538.460	25.2	6.2	1.0	304.0	3.0	0.0	Horz	AV	0.0	31.4	54.0	-22.6	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
15538.520	25.0	6.2	1.7	275.0	3.0	0.0	Vert	AV	0.0	31.2	54.0	-22.8	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
15960.460	39.6	7.0	1.0	21.0	3.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
15720.550	38.6	6.6	1.0	311.0	3.0	0.0	Vert	PK	0.0	45.2	74.0	-28.8	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
15780.800	37.9	6.7	1.0	122.0	3.0	0.0	Horz	PK	0.0	44.6	74.0	-29.4	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
15541.390	38.3	6.2	1.0	304.0	3.0	0.0	Horz	PK	0.0	44.5	74.0	-29.5	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
15540.800	38.3	6.2	1.7	275.0	3.0	0.0	Vert	PK	0.0	44.5	74.0	-29.5	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
15717.730	37.8	6.6	1.0	361.0	3.0	0.0	Horz	PK	0.0	44.4	74.0	-29.6	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
15959.960	37.4	7.0	1.0	81.0	3.0	0.0	Vert	PK	0.0	44.4	74.0	-29.6	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
11649.620	33.7	-9.4	1.0	315.0	3.0	0.0	Horz	AV	0.0	24.3	54.0	-29.7	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps
11398.500	33.7	-9.4	1.0	31.0	3.0	0.0	Vert	AV	0.0	24.3	54.0	-29.7	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
11398.700	33.6	-9.4	1.0	69.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
11648.560	33.6	-9.4	1.0	0.0	3.0	0.0	Vert	AV	0.0	24.2	54.0	-29.8	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps
11001.270	33.6	-9.5	1.0	329.0	3.0	0.0	Vert	AV	0.0	24.1	54.0	-29.9	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
11001.220	33.6	-9.5	1.0	114.0	3.0	0.0	Horz	AV	0.0	24.1	54.0	-29.9	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
11488.510	33.5	-9.4	1.0	144.0	3.0	0.0	Horz	AV	0.0	24.1	54.0	-29.9	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
11488.690	33.5	-9.4	1.0	60.0	3.0	0.0	Vert	AV	0.0	24.1	54.0	-29.9	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
11568.700	33.4	-9.4	1.0	82.0	3.0	0.0	Vert	AV	0.0	24.0	54.0	-30.0	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
11568.600	33.4	-9.4	1.0	251.0	3.0	0.0	Horz	AV	0.0	24.0	54.0	-30.0	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
11200.730	33.3	-9.4	1.0	255.0	3.0	0.0	Vert	AV	0.0	23.9	54.0	-30.1	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
11198.650	33.3	-9.4	1.0	43.0	3.0	0.0	Horz	AV	0.0	23.9	54.0	-30.1	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
15779.780	37.1	6.7	2.5	108.0	3.0	0.0	Vert	PK	0.0	43.8	74.0	-30.2	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
10638.690	32.3	-9.6	1.0	106.0	3.0	0.0	Horz	AV	0.0	22.7	54.0	-31.3	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
10639.390	32.3	-9.6	1.0	118.0	3.0	0.0	Vert	AV	0.0	22.7	54.0	-31.3	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
11568.630	47.6	-9.4	1.0	251.0	3.0	0.0	Horz	PK	0.0	38.2	74.0	-35.8	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
11400.520	47.5	-9.4	1.0	31.0	3.0	0.0	Vert	PK	0.0	38.1	74.0	-35.9	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
11000.320	47.4	-9.5	1.0	114.0	3.0	0.0	Horz	PK	0.0	37.9	74.0	-36.1	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
11399.080	47.3	-9.4	1.0	69.0	3.0	0.0	Horz	PK	0.0	37.9	74.0	-36.1	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
11490.280	47.2	-9.4	1.0	144.0	3.0	0.0	Horz	PK	0.0	37.8	74.0	-36.2	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
11648.630	47.2	-9.4	1.0	0.0	3.0	0.0	Vert	PK	0.0	37.8	74.0	-36.2	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps
11571.240	46.8	-9.4	1.0	82.0	3.0	0.0	Vert	PK	0.0	37.4	74.0	-36.6	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
11649.770	46.8	-9.4	1.0	315.0	3.0	0.0	Horz	PK	0.0	37.4	74.0	-36.6	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps
10999.380	46.8	-9.5	1.0	329.0	3.0	0.0	Vert	PK	0.0	37.3	74.0	-36.7	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
11199.650	46.6	-9.4	1.0	255.0	3.0	0.0	Vert	PK	0.0	37.2	74.0	-36.8	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
11489.570	46.6	-9.4	1.0	60.0	3.0	0.0	Vert	PK	0.0	37.2	74.0	-36.8	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
11201.350	46.4	-9.4	1.0	43.0	3.0	0.0	Horz	PK	0.0	37.0	74.0	-37.0	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
10639.440	46.1	-9.6	1.0	106.0	3.0	0.0	Horz	PK	0.0	36.5	74.0	-37.5	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
10641.100	45.5	-9.6	1.0	118.0	3.0	0.0	Vert	PK	0.0	35.9	74.0	-38.1	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps

Work Order:	SONO0377	Date:	08/22/15	
Project:	None	Temperature:	22.8 °C	
Job Site:	OC10	Humidity:	48.8% RH	
Serial Number:	Q402KJ	Barometric Pres.:	1011 mbar	
EUT:		iViz		
Configuration:		1		
Customer:		FUJIFILM Sonosite Manufacturing, LLC		
Attendees:		None		
EUT Power:		Battery		
Operating Mode:		Continuous transmit 802.11an		
Deviations:		None		
Comments:		See comments on data for channel, frequency, data rate, and polarity.		

Test Specifications	Test Method
FCC 15.407:2015	ANSI C63.10:2013

Run #	157	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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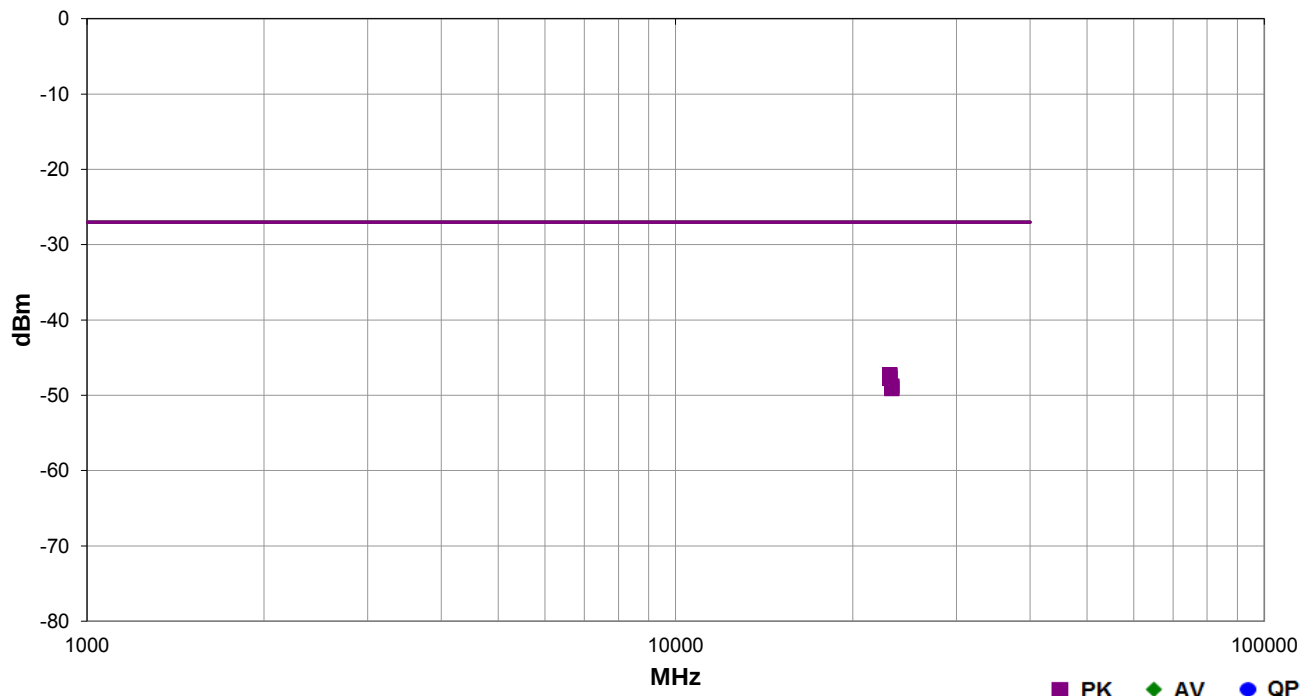
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
22002.770	49.1	-3.8	1.0	146.0	3.0	0.0	Vert	AV	0.0	45.3	54.0	-8.7	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
22402.620	47.5	-3.4	1.0	231.0	3.0	0.0	Vert	AV	0.0	44.1	54.0	-9.9	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
20722.430	44.8	-3.9	1.0	148.0	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
20962.960	44.2	-3.7	1.0	127.0	3.0	0.0	Vert	AV	0.0	40.5	54.0	-13.5	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
20957.840	43.8	-3.7	1.0	147.0	3.0	0.0	Horz	AV	0.0	40.1	54.0	-13.9	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
21042.770	43.8	-3.7	1.0	129.0	3.0	0.0	Vert	AV	0.0	40.1	54.0	-13.9	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
21997.780	43.2	-3.8	1.0	178.0	3.0	0.0	Horz	AV	0.0	39.4	54.0	-14.6	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
22002.960	62.2	-3.8	1.0	146.0	3.0	0.0	Vert	PK	0.0	58.4	74.0	-15.6	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
22408.160	41.8	-3.4	1.0	154.0	3.0	0.0	Horz	AV	0.0	38.4	54.0	-15.6	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
22402.800	61.0	-3.4	1.0	231.0	3.0	0.0	Vert	PK	0.0	57.6	74.0	-16.4	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
20722.660	41.4	-3.9	1.0	204.0	3.0	0.0	Horz	AV	0.0	37.5	54.0	-16.5	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
21277.780	39.8	-3.6	1.0	167.0	3.0	0.0	Vert	AV	0.0	36.2	54.0	-17.8	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
20722.240	59.0	-3.9	1.0	148.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
22978.810	38.8	-3.8	0.0	92.0	3.0	0.0	Vert	AV	0.0	35.0	54.0	-19.0	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
22978.620	38.7	-3.8	0.0	0.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
22799.310	38.5	-3.6	0.0	165.0	3.0	0.0	Vert	AV	0.0	34.9	54.0	-19.1	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
22799.790	38.5	-3.6	0.0	216.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
21048.430	38.3	-3.7	1.0	156.0	3.0	0.0	Horz	AV	0.0	34.6	54.0	-19.4	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
21277.820	37.7	-3.6	1.0	166.0	3.0	0.0	Horz	AV	0.0	34.1	54.0	-19.9	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
21043.020	56.8	-3.7	1.0	129.0	3.0	0.0	Vert	PK	0.0	53.1	74.0	-20.9	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
20963.030	56.8	-3.7	1.0	127.0	3.0	0.0	Vert	PK	0.0	53.1	74.0	-20.9	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
20957.770	56.5	-3.7	1.0	147.0	3.0	0.0	Horz	PK	0.0	52.8	74.0	-21.2	High Ch 48 (5240 MHz), EUT Vert, 6 Mbps
22408.060	55.5	-3.4	1.0	154.0	3.0	0.0	Horz	PK	0.0	52.1	74.0	-21.9	Mid Ch 120 (5600 MHz), EUT Vert, 6 Mbps
21996.880	55.8	-3.8	1.0	178.0	3.0	0.0	Horz	PK	0.0	52.0	74.0	-22.0	Low Ch 100 (5500 MHz), EUT Vert, 6 Mbps
20722.880	54.4	-3.9	1.0	204.0	3.0	0.0	Horz	PK	0.0	50.5	74.0	-23.5	Low Ch 36 (5180 MHz), EUT Vert, 6 Mbps
21277.920	52.6	-3.6	1.0	167.0	3.0	0.0	Vert	PK	0.0	49.0	74.0	-25.0	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
21048.850	51.3	-3.7	1.0	156.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	Low Ch 52 (5260 MHz), EUT Vert, 6 Mbps
22799.500	51.1	-3.6	0.0	216.0	3.0	0.0	Horz	PK	0.0	47.5	74.0	-26.5	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
21280.420	50.7	-3.6	1.0	166.0	3.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	High Ch 64 (5320 MHz), EUT Vert, 6 Mbps
22978.550	50.2	-3.8	0.0	92.0	3.0	0.0	Vert	PK	0.0	46.4	74.0	-27.6	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps
22799.190	49.5	-3.6	0.0	165.0	3.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	High Ch 140 (5700 MHz), EUT Vert, 6 Mbps
22980.800	49.5	-3.8	0.0	0.0	3.0	0.0	Horz	PK	0.0	45.7	74.0	-28.3	Low Ch 149 (5745 MHz), EUT Vert, 6 Mbps

SPURIOUS RADIATED EMISSIONS

Work Order:	SONO0377	Date:	08/22/15	<i>Marty Martin</i>
Project:	None	Temperature:	21 °C	
Job Site:	OC10	Humidity:	64% RH	
Serial Number:	Q402KJ	Barometric Pres.:	1021 mbar	
Tested by:				Marty Martin
EUT:	iViz			
Configuration:	1			
Customer:	FUJIFILM Sonosite Manufacturing, LLC			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Continuous transmit 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, frequency, data rate, and polarity.			

Test Specifications	Test Method
FCC 15.407:2015	ANSI C63.10:2013

Run #	176	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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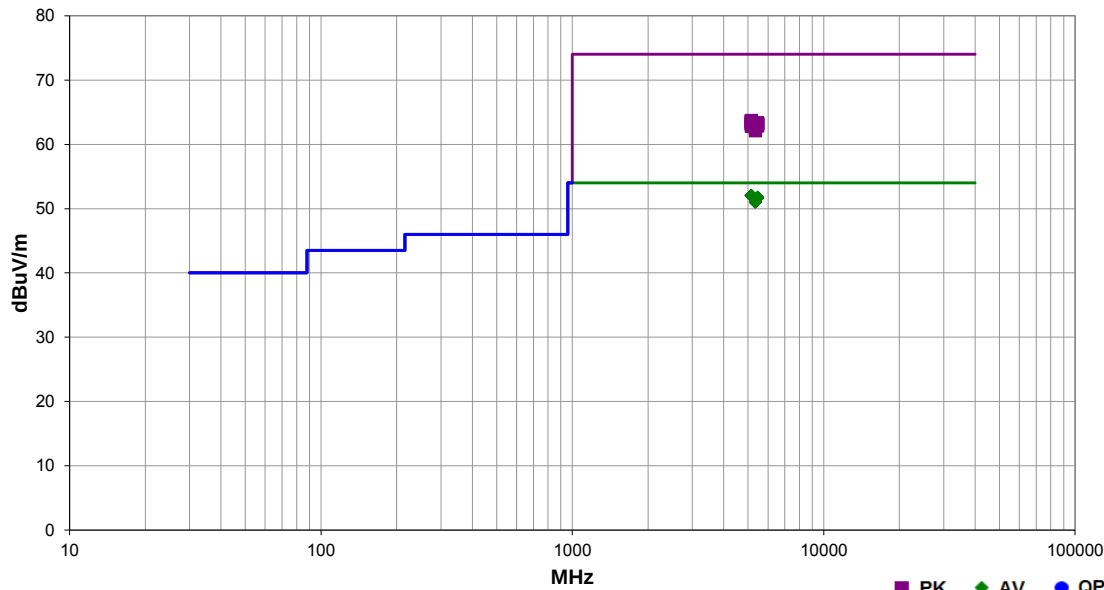


Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
23140.490	0.0	82.0	Vert	PK	1.85E-08	-47.3	-27.0	-20.3	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
23140.610	0.0	56.0	Horz	PK	1.69E-08	-47.7	-27.0	-20.7	Mid Ch 157 (5785 MHz), EUT Vert, 6 Mbps
23299.780	0.0	189.0	Horz	PK	1.32E-08	-48.8	-27.0	-21.8	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps
23299.190	0.0	315.0	Vert	PK	1.23E-08	-49.1	-27.0	-22.1	High Ch 165 (5825 MHz), EUT Vert, 6 Mbps

Work Order:	SONO0377	Date:	08/22/15	
Project:	None	Temperature:	21 °C	
Job Site:	OC10	Humidity:	64% RH	
Serial Number:	Q402KJ	Barometric Pres.:	1021 mbar	
		Tested by: Marty Martin		
EUT:	iViz			
Configuration:	1			
Customer:	FUJIFILM Sonosite Manufacturing, LLC			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Continuous transmit 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, frequency, data rate, and polarity.			

Test Specifications	Test Method
FCC 15.407:2015	ANSI C63.10:2013

Run #	177	Test Distance (m)	1	Antenna Height(s)	1 to 4(m)	Results	Pass
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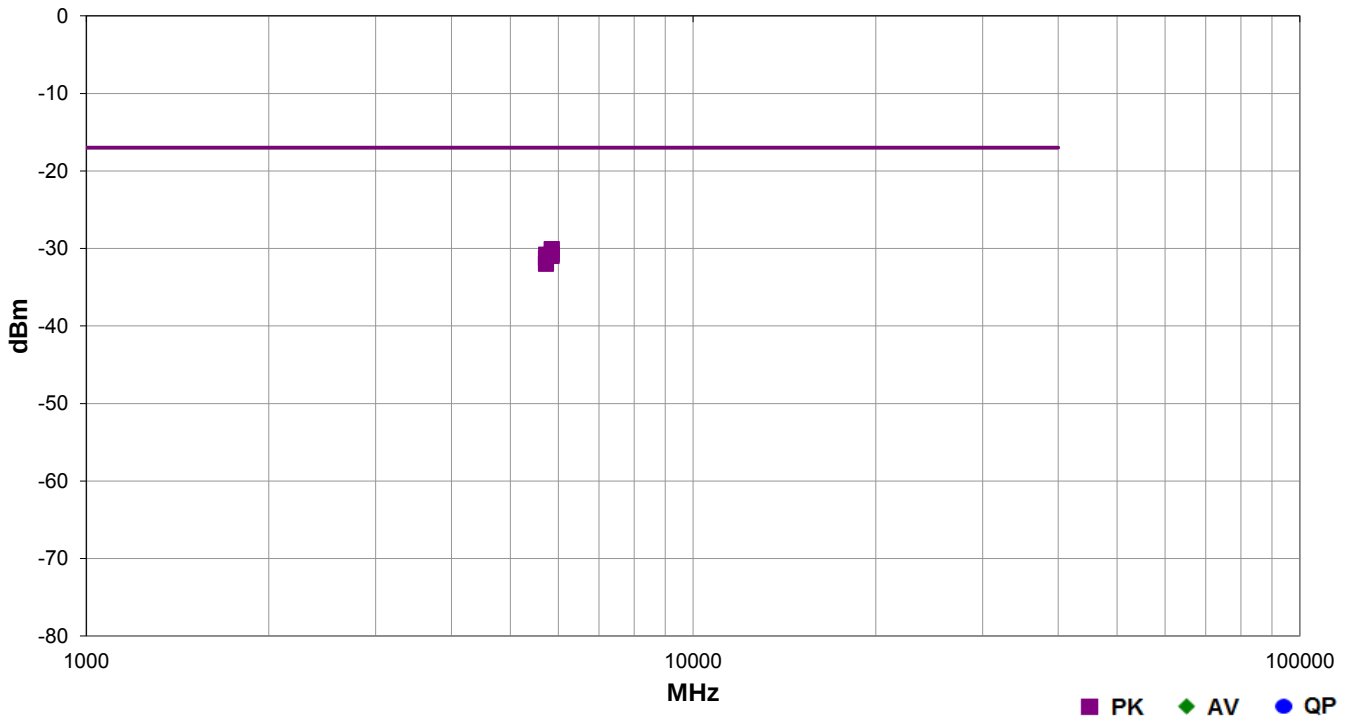
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
5149.710	26.0	35.6	1.1	124.0	1.0	0.0	Horz	AV	-9.5	52.0	54.0	-2.0	EUT on side, CH 36, 5150MHz, 6Mbps
5148.925	26.0	35.6	1.1	129.0	1.0	0.0	Vert	AV	-9.5	52.0	54.0	-2.0	EUT Horz, CH 36, 5150MHz, MCS0
5148.510	26.0	35.6	1.1	87.0	1.0	0.0	Vert	AV	-9.5	52.0	54.0	-2.0	EUT Horz, CH 36, 5150MHz, MCS7
5148.120	26.0	35.6	1.1	20.0	1.0	0.0	Vert	AV	-9.5	52.0	54.0	-2.0	EUT Horz, CH 36, 5150MHz, 6Mbps
5147.690	26.0	35.6	1.1	200.0	1.0	0.0	Vert	AV	-9.5	52.0	54.0	-2.0	EUT Horz, CH 36, 5150MHz, 36Mbps
5147.420	26.0	35.6	1.1	257.0	1.0	0.0	Vert	AV	-9.5	52.0	54.0	-2.0	EUT Horz, CH 36, 5150MHz, 54Mbps
5147.380	26.0	35.6	1.1	137.0	1.0	0.0	Vert	AV	-9.5	52.0	54.0	-2.0	EUT on side, CH 36, 5150MHz, 6Mbps
5147.175	26.0	35.6	1.1	99.0	1.0	0.0	Horz	AV	-9.5	52.0	54.0	-2.0	EUT Horz, CH 36, 5150MHz, 6Mbps
5147.045	26.0	35.6	1.1	316.0	1.0	0.0	Vert	AV	-9.5	52.0	54.0	-2.0	EUT Vert, CH 36, 5150MHz, 6Mbps
5147.005	26.0	35.6	1.1	18.0	1.0	0.0	Horz	AV	-9.5	52.0	54.0	-2.0	EUT Vert, CH 36, 5150MHz, 6Mbps
5458.617	25.1	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.8	54.0	-2.2	EUT Horz, CH 100, 5460MHz, 54Mbps
5460.417	25.1	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.8	54.0	-2.2	EUT Horz, CH 100, 5460MHz, 6Mbps
5460.850	25.1	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.8	54.0	-2.2	EUT Horz, CH 100, 5460MHz, MCS0
5460.325	25.0	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.7	54.0	-2.3	EUT Horz, CH 100, 5460MHz, 36Mbps
5458.742	25.0	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.7	54.0	-2.3	EUT Horz, CH 100, 5460MHz, MCS7
5351.257	24.4	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.0	54.0	-3.0	EUT Horz, CH 64, 5350MHz, 6Mbps
5350.693	24.4	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.0	54.0	-3.0	EUT Horz, CH 64, 5350MHz, 6Mbps
5350.583	24.4	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.0	54.0	-3.0	EUT Horz, CH 64, 5350MHz, 36Mbps
5350.337	24.4	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.0	54.0	-3.0	EUT Horz, CH 64, 5350MHz, 54Mbps
5350.323	24.4	36.2	1.1	48.0	1.0	0.0	Vert	AV	-9.5	51.0	54.0	-3.0	EUT Horz, CH 64, 5350MHz, MCS0
5149.940	37.7	35.6	1.1	200.0	1.0	0.0	Vert	PK	-9.5	63.7	74.0	-10.3	EUT Horz, CH 36, 5150MHz, 36Mbps
5149.080	37.6	35.6	1.1	20.0	1.0	0.0	Vert	PK	-9.5	63.6	74.0	-10.4	EUT Horz, CH 36, 5150MHz, 6Mbps
5149.030	37.6	35.6	1.1	124.0	1.0	0.0	Horz	PK	-9.5	63.6	74.0	-10.4	EUT on side, CH 36, 5150MHz, 6Mbps
5149.215	37.5	35.6	1.1	129.0	1.0	0.0	Vert	PK	-9.5	63.5	74.0	-10.5	EUT Horz, CH 36, 5150MHz, MCS0
5147.625	37.4	35.6	1.1	316.0	1.0	0.0	Vert	PK	-9.5	63.4	74.0	-10.6	EUT Vert, CH 36, 5150MHz, 6Mbps
5457.492	36.7	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	63.4	74.0	-10.6	EUT Horz, CH 100, 5460MHz, 6Mbps
5458.825	36.6	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	63.3	74.0	-10.7	EUT Horz, CH 100, 5460MHz, 36Mbps
5459.492	36.6	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	63.3	74.0	-10.7	EUT Horz, CH 100, 5460MHz, MCS7

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
5148.905	37.2	35.6	1.1	137.0	1.0	0.0	Vert	PK	-9.5	63.2	74.0	-10.8	EUT on side, CH 36, 5150MHz, 6Mbps
5147.575	37.2	35.6	1.1	257.0	1.0	0.0	Vert	PK	-9.5	63.2	74.0	-10.8	EUT Horz, CH 36, 5150MHz, 54Mbps
5458.483	36.5	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	63.2	74.0	-10.8	EUT Horz, CH 100, 5460MHz, 54Mbps
5149.645	37.1	35.6	1.1	18.0	1.0	0.0	Horz	PK	-9.5	63.1	74.0	-10.9	EUT Vert, CH 36, 5150MHz, 6Mbps
5147.670	37.1	35.6	1.1	99.0	1.0	0.0	Horz	PK	-9.5	63.1	74.0	-10.9	EUT Horz, CH 36, 5150MHz, 6Mbps
5351.470	36.4	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	63.0	74.0	-11.0	EUT Horz, CH 64, 5350MHz, 36Mbps
5461.425	36.2	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	62.9	74.0	-11.1	EUT Horz, CH 100, 5460MHz, MCSO
5148.110	36.8	35.6	1.1	87.0	1.0	0.0	Vert	PK	-9.5	62.8	74.0	-11.2	EUT Horz, CH 36, 5150MHz, MCS7
5351.780	36.2	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	62.8	74.0	-11.2	EUT Horz, CH 64, 5350MHz, 54Mbps
5350.953	35.9	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	62.5	74.0	-11.5	EUT Horz, CH 64, 5350MHz, MCSO
5351.677	35.8	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	62.4	74.0	-11.6	EUT Horz, CH 64, 5350MHz, MCS7
5350.863	35.5	36.2	1.1	48.0	1.0	0.0	Vert	PK	-9.5	62.1	74.0	-11.9	EUT Horz, CH 64, 5350MHz, 6Mbps

Work Order:	SONO0377	Date:	08/22/15	<i>Marty Martin</i>
Project:	None	Temperature:	21 °C	
Job Site:	OC10	Humidity:	64% RH	
Serial Number:	Q402KJ	Barometric Pres.:	1021 mbar	
EUT: iViz				Tested by: Marty Martin
Configuration:	1			
Customer:	FUJIFILM Sonosite Manufacturing, LLC			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Continuous transmit 802.11an			
Deviations:	None			
Comments:	See comments on data for channel, frequency, data rate, and polarity.			

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

Run #	178	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
5850.900	1.1	48.0	Vert	PK	9.82E-07	-30.1	-17.0	-13.1	EUT Horz, CH 165, 5725MHz, 6Mbps
5850.493	1.1	48.0	Vert	PK	9.82E-07	-30.1	-17.0	-13.1	EUT Horz, CH 165, 5725MHz, MCSO
5851.600	1.1	48.0	Vert	PK	8.55E-07	-30.7	-17.0	-13.7	EUT Horz, CH 165, 5725MHz, 36Mbps
5723.593	1.1	48.0	Vert	PK	8.38E-07	-30.8	-17.0	-13.8	EUT Horz, CH 149, 5725MHz, MCSO
5850.033	1.1	48.0	Vert	PK	8.35E-07	-30.8	-17.0	-13.8	EUT Horz, CH 165, 5725MHz, 54Mbps
5850.003	1.1	48.0	Vert	PK	7.98E-07	-31.0	-17.0	-14.0	EUT Horz, CH 165, 5725MHz, MCS7
5723.323	1.1	48.0	Vert	PK	7.47E-07	-31.3	-17.0	-14.3	EUT Horz, CH 149, 5725MHz, 54Mbps
5724.503	1.1	48.0	Vert	PK	6.51E-07	-31.9	-17.0	-14.9	EUT Horz, CH 149, 5725MHz, MCS7
5724.987	1.1	48.0	Vert	PK	6.37E-07	-32.0	-17.0	-15.0	EUT Horz, CH 149, 5725MHz, 6Mbps
5723.323	1.1	48.0	Vert	PK	6.36E-07	-32.0	-17.0	-15.0	EUT Horz, CH 149, 5725MHz, 36Mbps

PEAK TRANSMIT POWER

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 (mos)
Generator - Signal	Agilent	E8257D	TGU	2/5/2015	36
Block - DC	Aeroflex	INMET 8535	AMO	4/8/2015	12
Attenuator	Fairview Microwave	SA18H-20	TKR	4/8/2015	12
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test.

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. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

Prior to measuring peak transmit power; the emission bandwidth (B) was measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report

Method SA-2 Alternate (RMS detection with slow sweep across on and off times of the EUT transmission and use of a duty cycle correction factor) was used for this test.

PEAK TRANSMIT POWER

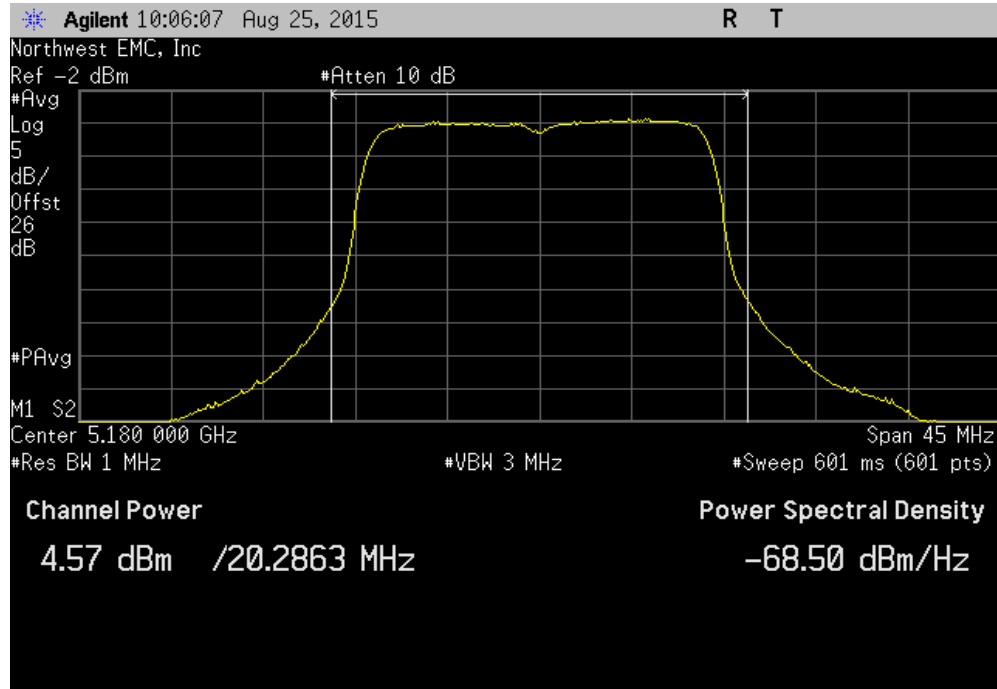


XMtr 2015.01.14

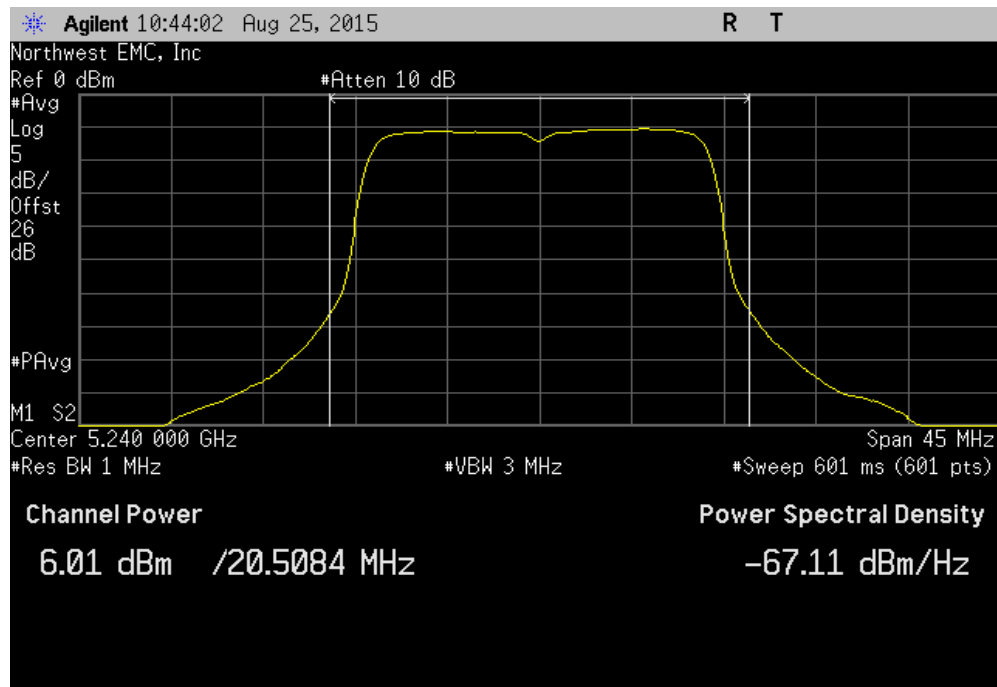
EUT: iViz			Work Order: SONO0377		
Serial Number: Q402KJ			Date: 08/25/15		
Customer: FUJIFILM Sonosite Manufacturing, LLC			Temperature: 22°C		
Attendees: None			Humidity: 50%		
Project: None			Barometric Pres.: 1014		
Tested by: Marty Martin & Johnny Candelas		Power: Battery	Job Site: OC13		
TEST SPECIFICATIONS		Test Method			
FCC 15.407:2015		ANSI C63.10:2013			
COMMENTS					
TX Power settings used from client provided Power Table DC Block/20dB Attenuator + coax cable + patch cable = 26.0dB for 5.2 & 5.3GHz, 26.24dB for 5.5GHz, and 26.43dB for 5.8GHz ranges					
DEVIATIONS FROM TEST STANDARD					
None					
Configuration #	2	Signature 			
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	EIRP (dBm)	Limit (dBm) Results
802.11(a) 6 Mbps					
5150 - 5250 MHz Band					
Channel 36, Low Channel		4.575	0.1	4.7	24 Pass
Channel 48, High Channel		6.013	0.1	6.1	24 Pass
5250 - 5350 MHz Band					
Channel 52, Low Channel		5.874	0.1	6	24 Pass
Channel 64, High Channel		5.592	0.1	5.7	24 Pass
5470 - 5725 MHz Band					
Channel 100, Low Channel		6.318	0.1	6.4	24 Pass
Channel 120, Mid Channel		6.142	0.1	6.2	24 Pass
Channel 140, High Channel		7.449	0.1	7.5	24 Pass
5725 - 5850 MHz Band					
Channel 149, Low Channel		8.149	0.1	8.2	30 Pass
Channel 157, Mid Channel		7.72	0.1	7.8	30 Pass
Channel 165, High Channel		8.026	0.1	8.1	30 Pass
802.11(a) 36 Mbps					
5150 - 5250 MHz Band					
Channel 36, Low Channel		6.255	0.5	6.8	24 Pass
Channel 48, High Channel		6.723	0.5	7.2	24 Pass
5250 - 5350 MHz Band					
Channel 52, Low Channel		6.736	0.5	7.3	24 Pass
Channel 64, High Channel		5.344	0.5	5.9	24 Pass
5470 - 5725 MHz Band					
Channel 100, Low Channel		6.628	0.5	7.1	24 Pass
Channel 120, Mid Channel		6.123	0.5	6.7	24 Pass
Channel 140, High Channel		7.309	0.5	7.8	24 Pass
5725 - 5850 MHz Band					
Channel 149, Low Channel		8.319	0.5	8.8	30 Pass
Channel 157, Mid Channel		7.727	0.5	8.3	30 Pass
Channel 165, High Channel		8.27	0.5	8.8	30 Pass
802.11(a) 54 Mbps					
5150 - 5250 MHz Band					
Channel 36, Low Channel		3.383	0.7	4.1	24 Pass
Channel 48, High Channel		3.262	0.8	4	24 Pass
5250 - 5350 MHz Band					
Channel 52, Low Channel		3.326	0.8	4.2	24 Pass
Channel 64, High Channel		2.925	0.8	3.7	24 Pass
5470 - 5725 MHz Band					
Channel 100, Low Channel		3.858	0.8	4.6	24 Pass
Channel 120, Mid Channel		3.564	0.8	4.4	24 Pass
Channel 140, High Channel		4.737	0.8	5.5	24 Pass
5725 - 5850 MHz Band					
Channel 149, Low Channel		5.877	0.8	6.6	30 Pass
Channel 157, Mid Channel		5.465	0.8	6.2	30 Pass
Channel 165, High Channel		5.964	0.8	6.8	30 Pass
802.11(n) MCS0					
5150 - 5250 MHz Band					
Channel 36, Low Channel		4.791	0.1	4.9	24 Pass
Channel 48, High Channel		5.331	0.1	5.4	24 Pass
5250 - 5350 MHz Band					
Channel 52, Low Channel		5.207	0.1	5.3	24 Pass
Channel 64, High Channel		4.973	0.1	5.1	24 Pass
5470 - 5725 MHz Band					
Channel 100, Low Channel		5.438	0.1	5.5	24 Pass
Channel 120, Mid Channel		5.553	0.1	5.7	24 Pass
Channel 140, High Channel		6.883	0.1	7	24 Pass
5725 - 5850 MHz Band					
Channel 149, Low Channel		7.517	0.1	7.6	30 Pass
Channel 157, Mid Channel		7.122	0.1	7.2	30 Pass
Channel 165, High Channel		7.452	0.1	7.6	30 Pass
802.11(n) MCS7					
5150 - 5250 MHz Band					
Channel 36, Low Channel		0.256	0.8	1.1	24 Pass
Channel 48, High Channel		0.791	0.8	1.6	24 Pass
5250 - 5350 MHz Band					
Channel 52, Low Channel		0.861	0.8	1.7	24 Pass
Channel 64, High Channel		0.459	0.8	1.3	24 Pass
5470 - 5725 MHz Band					
Channel 100, Low Channel		1.086	0.8	1.9	24 Pass
Channel 120, Mid Channel		0.795	0.8	1.6	24 Pass
Channel 140, High Channel		2.284	0.8	3.1	24 Pass
5725 - 5850 MHz Band					
Channel 149, Low Channel		3.524	0.8	4.4	30 Pass
Channel 157, Mid Channel		3.018	0.8	3.8	30 Pass
Channel 165, High Channel		3.564	0.8	4.4	30 Pass

PEAK TRANSMIT POWER

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
4.575	0.1	4.7	24	Pass		

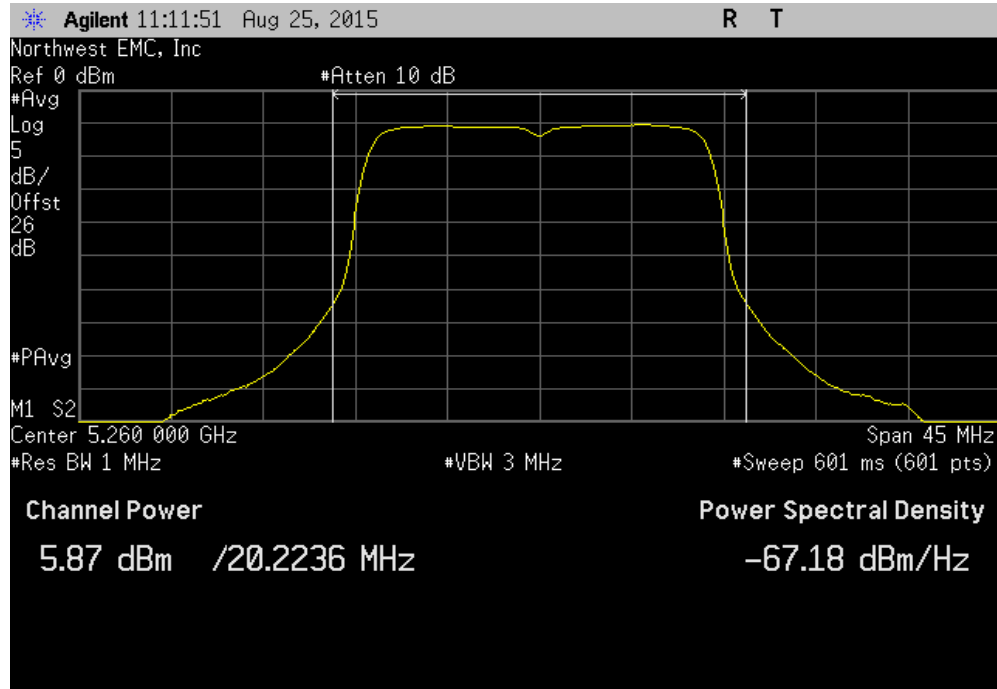


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.013	0.1	6.1	24	Pass		

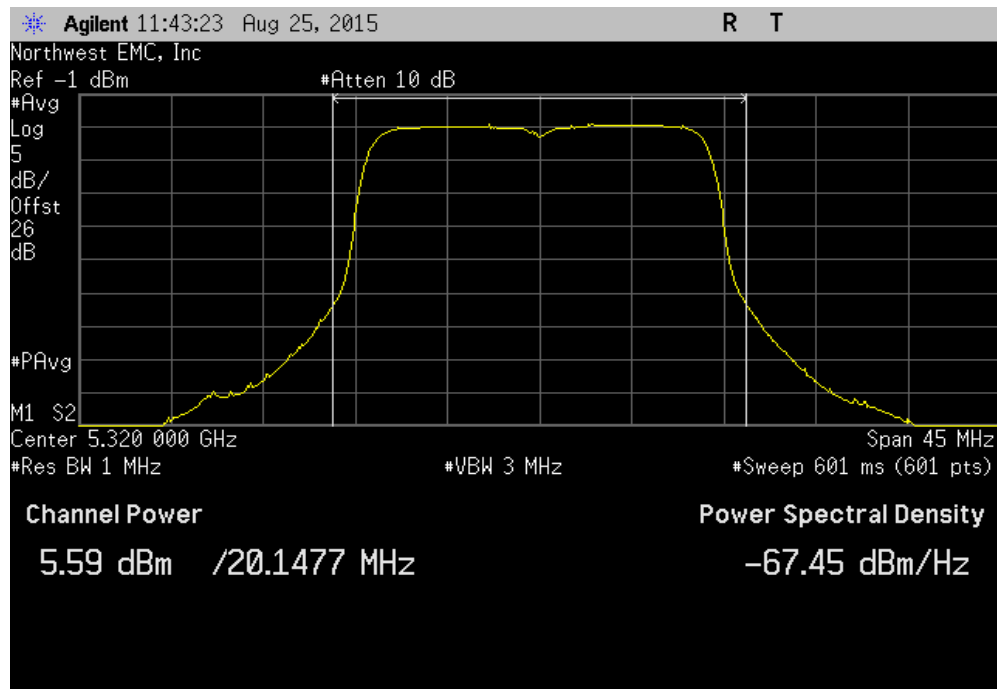


PEAK TRANSMIT POWER

802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.874	0.1	6	24	Pass		

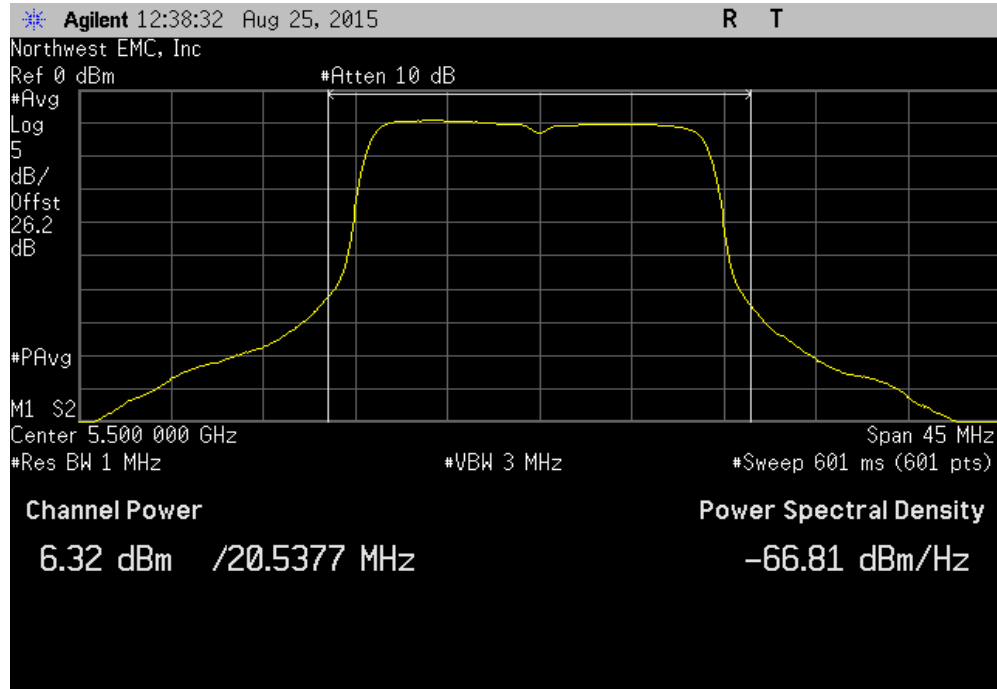


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.592	0.1	5.7	24	Pass		

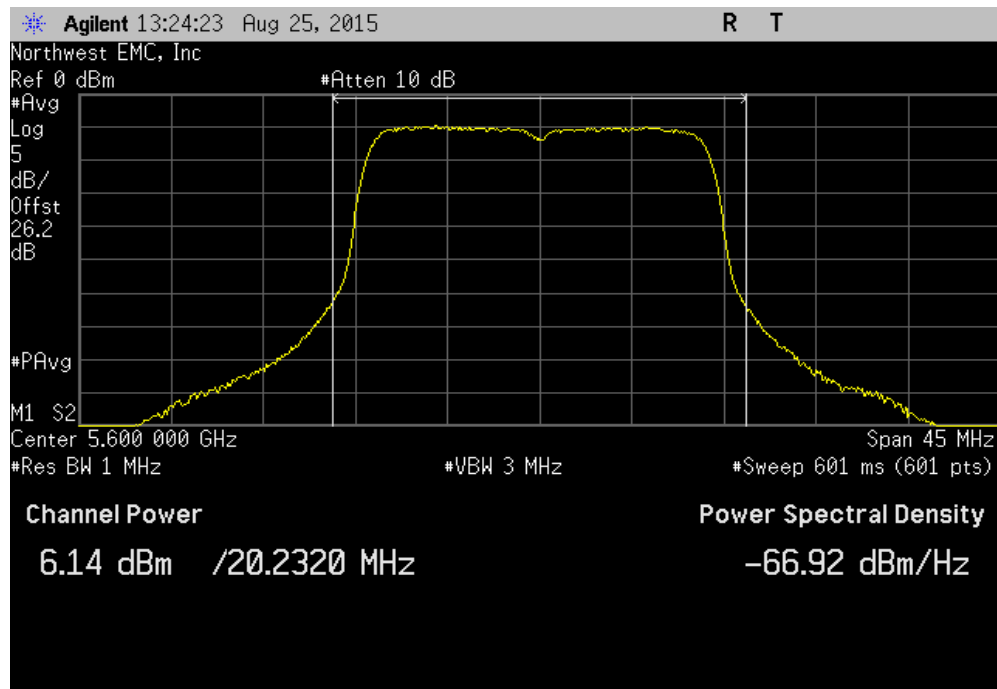


PEAK TRANSMIT POWER

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.318	0.1	6.4	24	Pass		

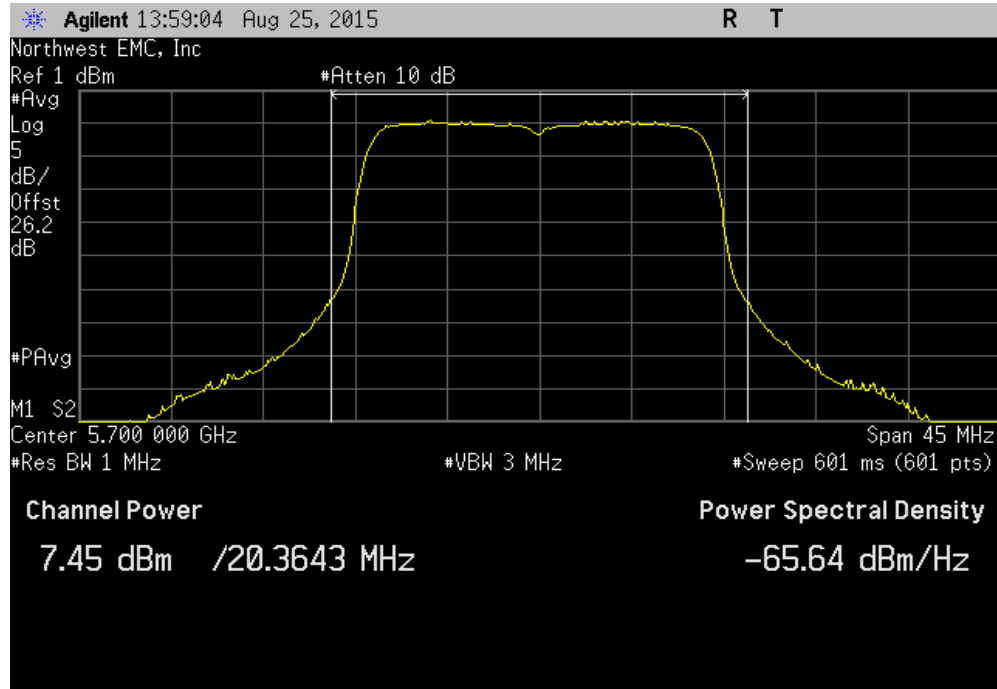


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.142	0.1	6.2	24	Pass		

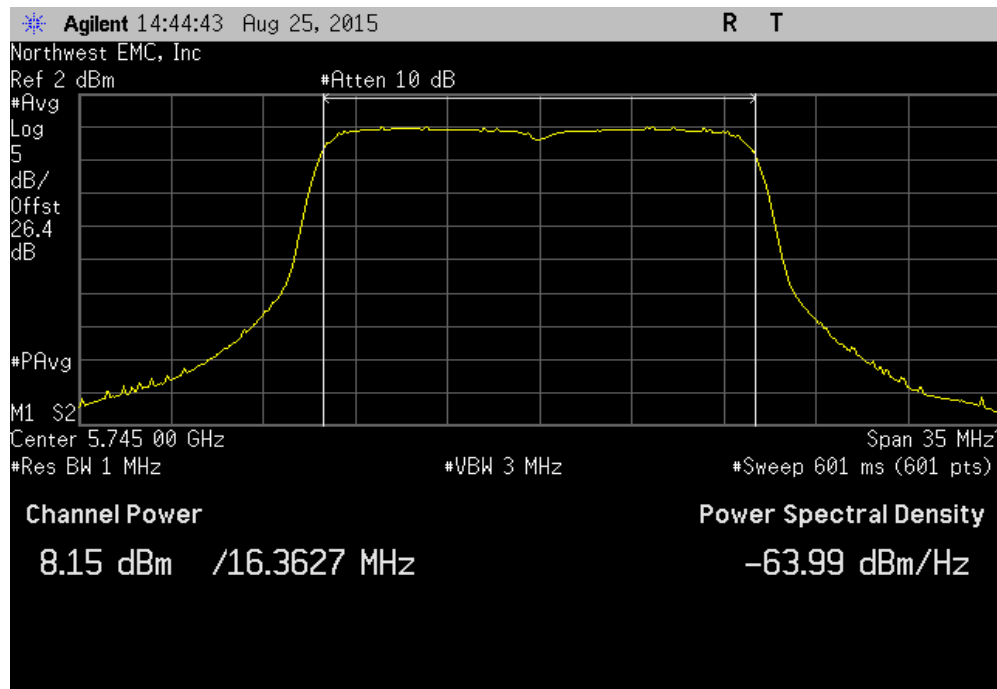


PEAK TRANSMIT POWER

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
7.449	0.1	7.5	24	Pass	

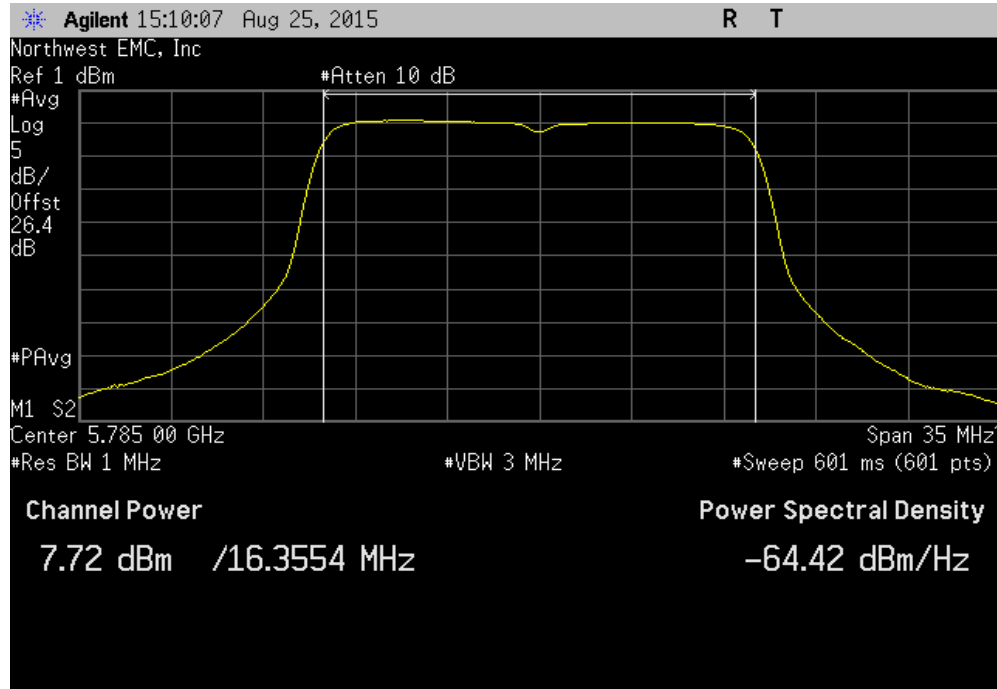


802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
8.149	0.1	8.2	30	Pass	

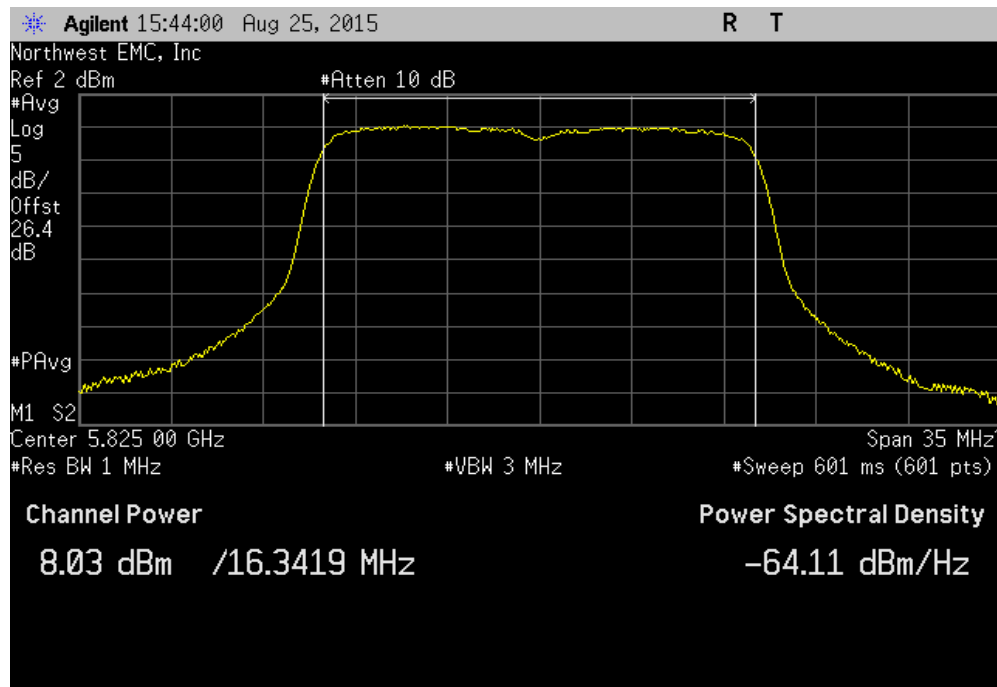


PEAK TRANSMIT POWER

802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.72	0.1	7.8	30	Pass		

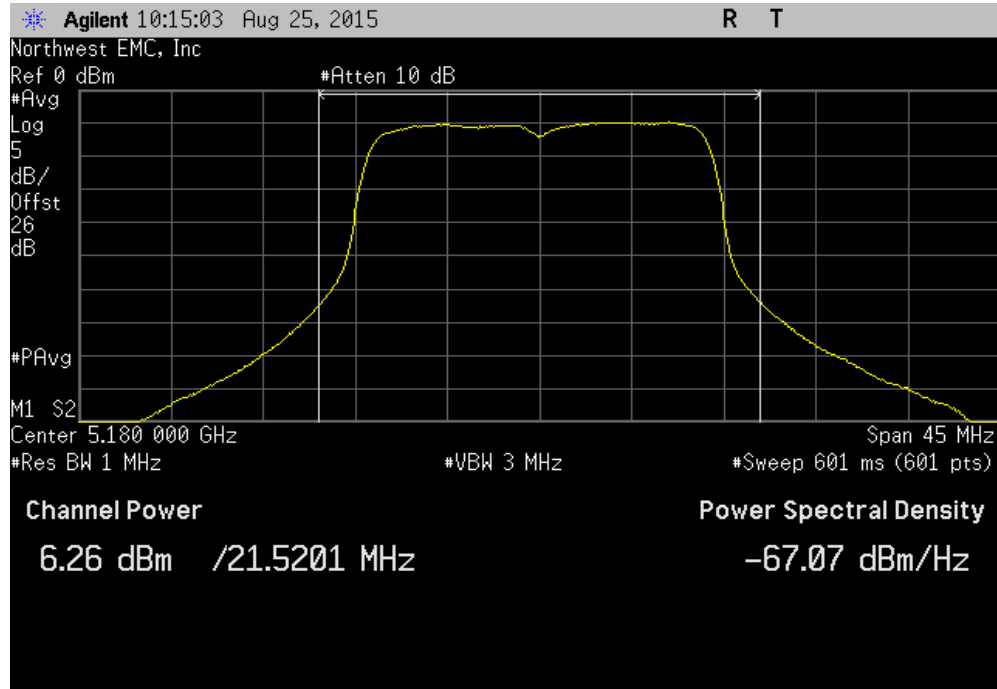


802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
8.026	0.1	8.1	30	Pass		

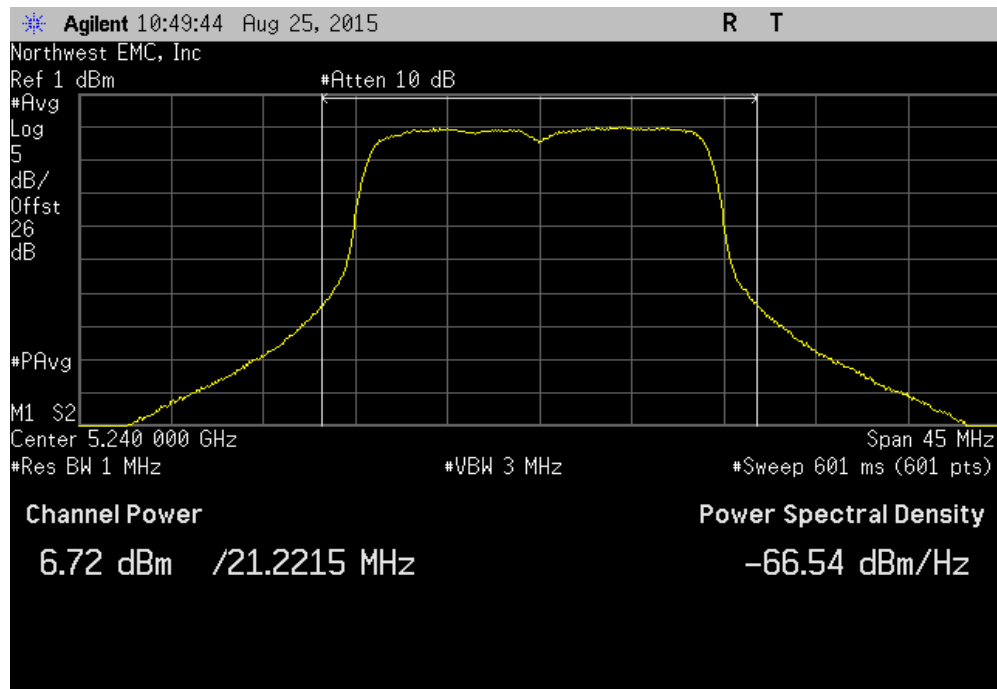


PEAK TRANSMIT POWER

802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.255	0.5	6.8	24	Pass		

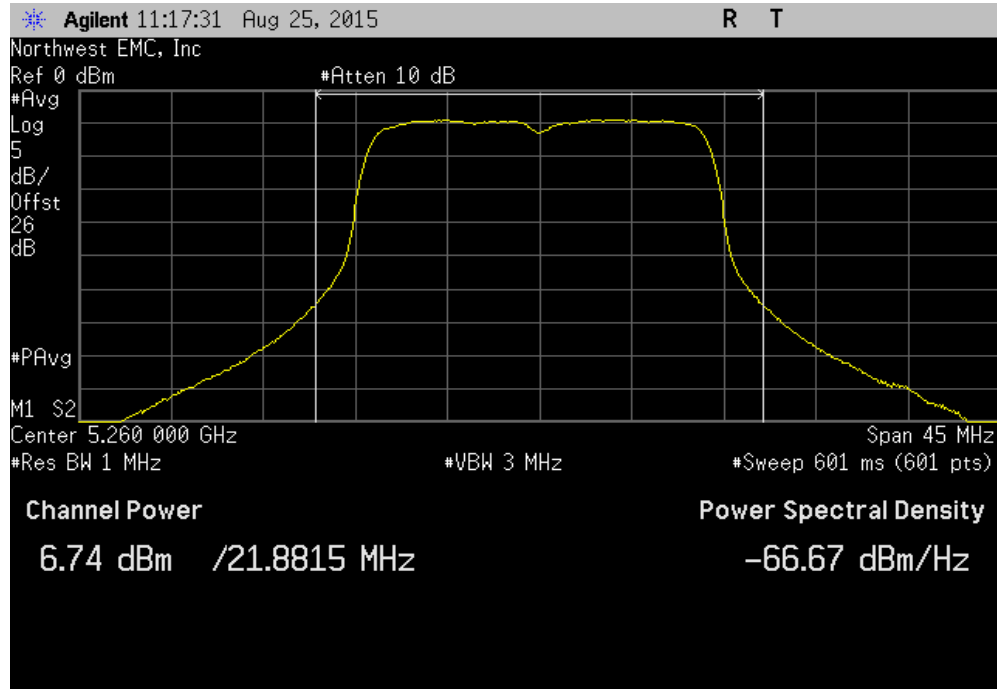


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.723	0.5	7.2	24	Pass		

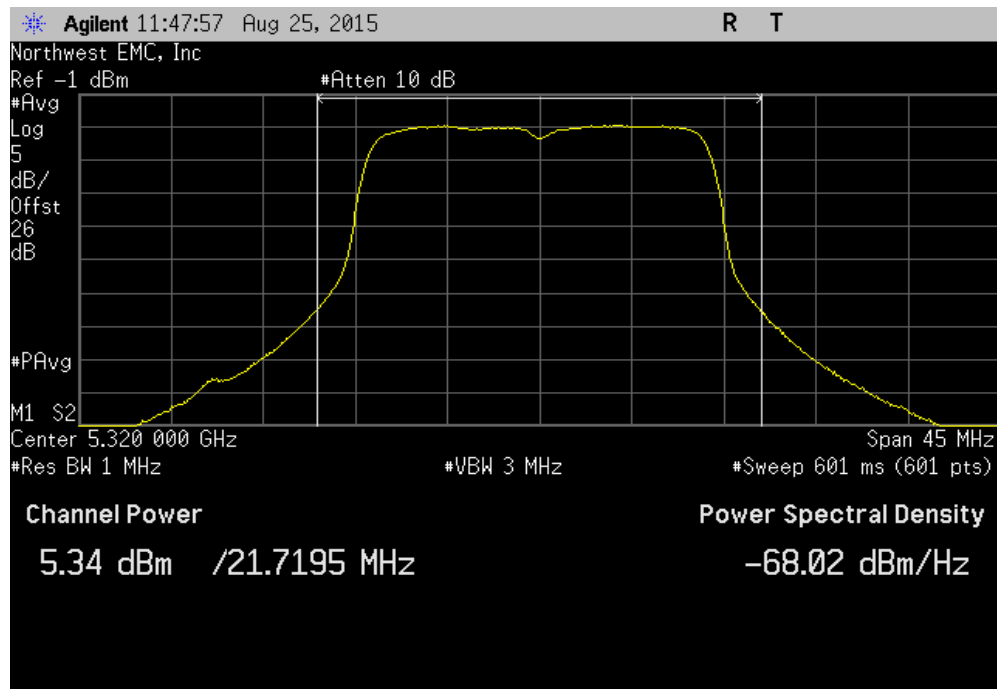


PEAK TRANSMIT POWER

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	6.736	0.5		7.3	24	Pass

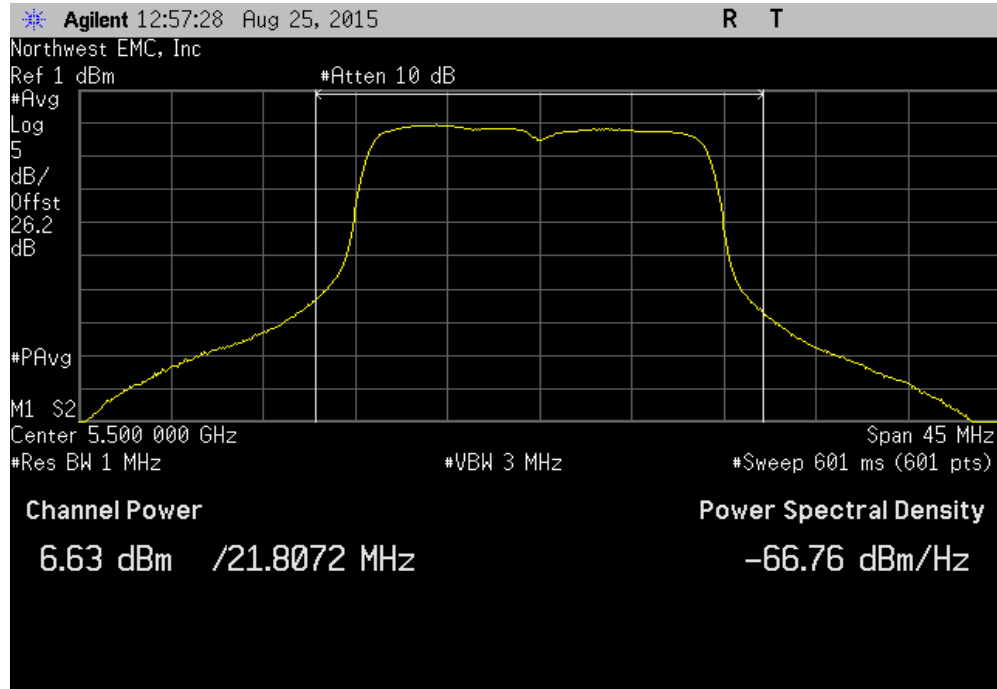


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	5.344	0.5		5.9	24	Pass

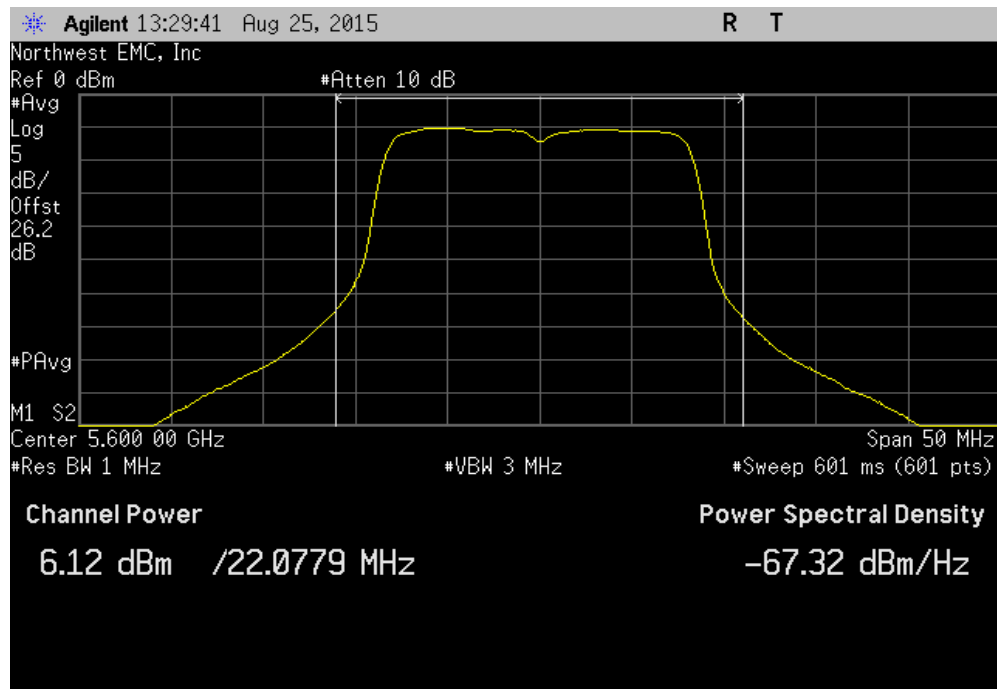


PEAK TRANSMIT POWER

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
6.628	0.5	7.1	24	Pass	

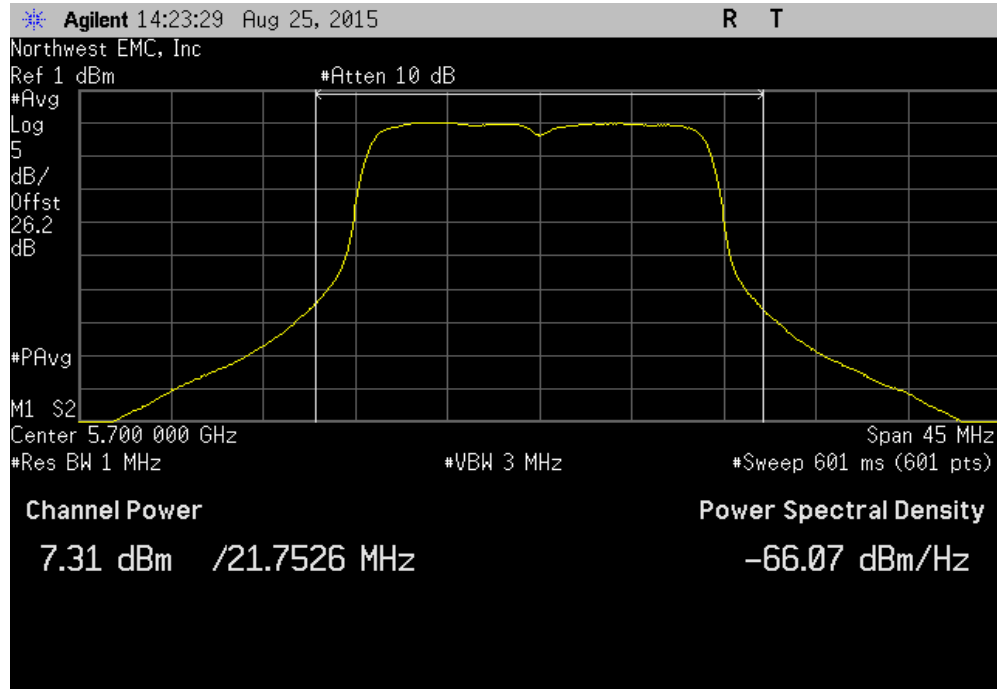


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
6.123	0.5	6.7	24	Pass	

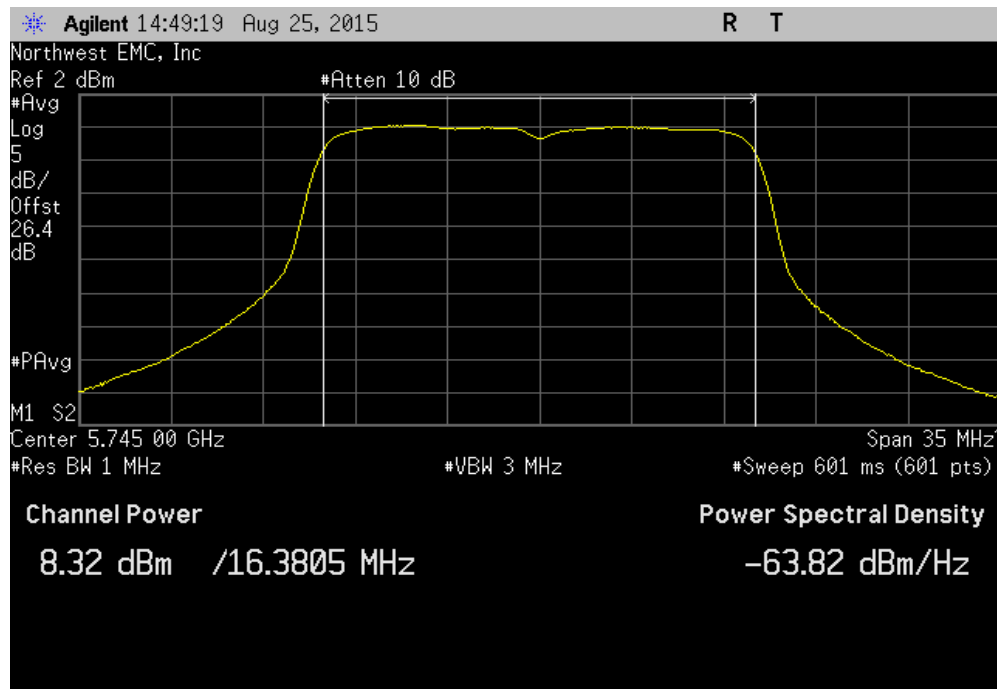


PEAK TRANSMIT POWER

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	7.309	0.5		7.8	24	Pass

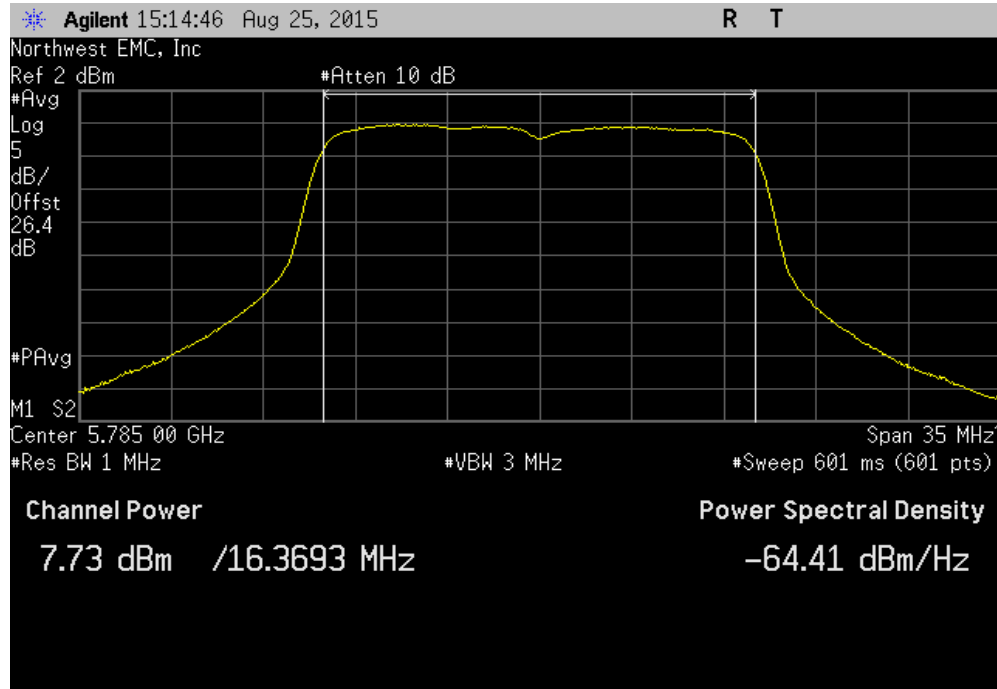


802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	8.319	0.5		8.8	30	Pass

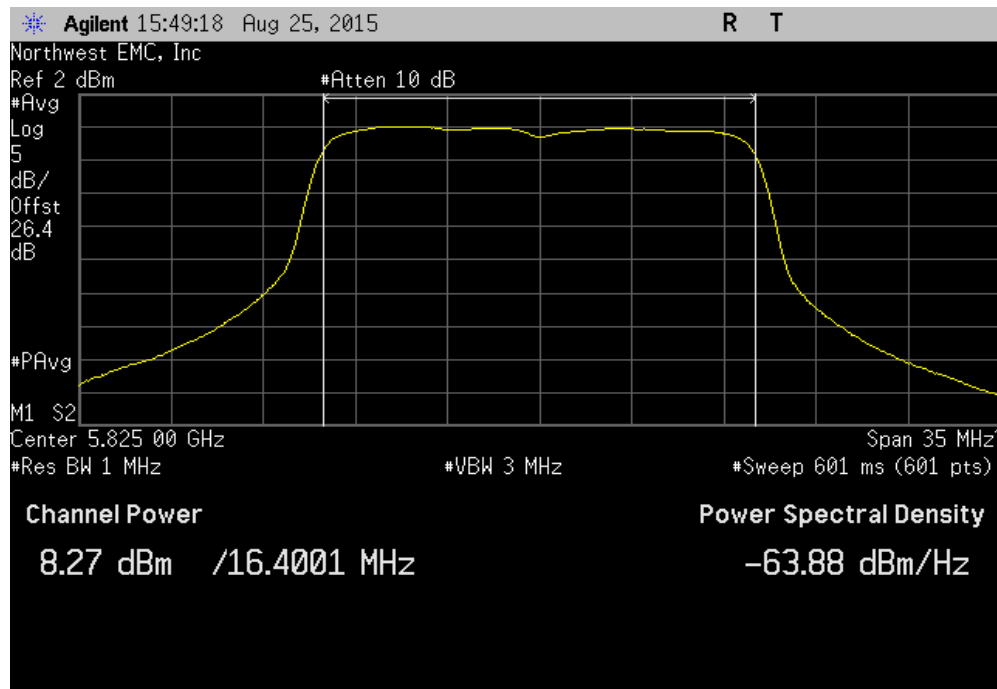


PEAK TRANSMIT POWER

802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
7.727	0.5	8.3	30	Pass	

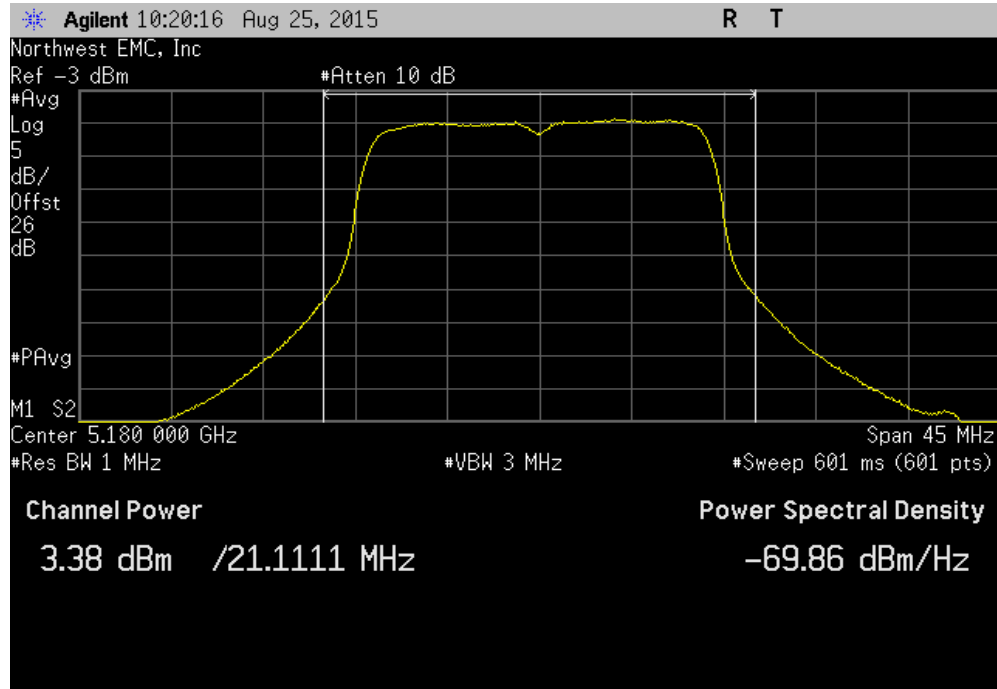


802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
8.27	0.5	8.8	30	Pass	

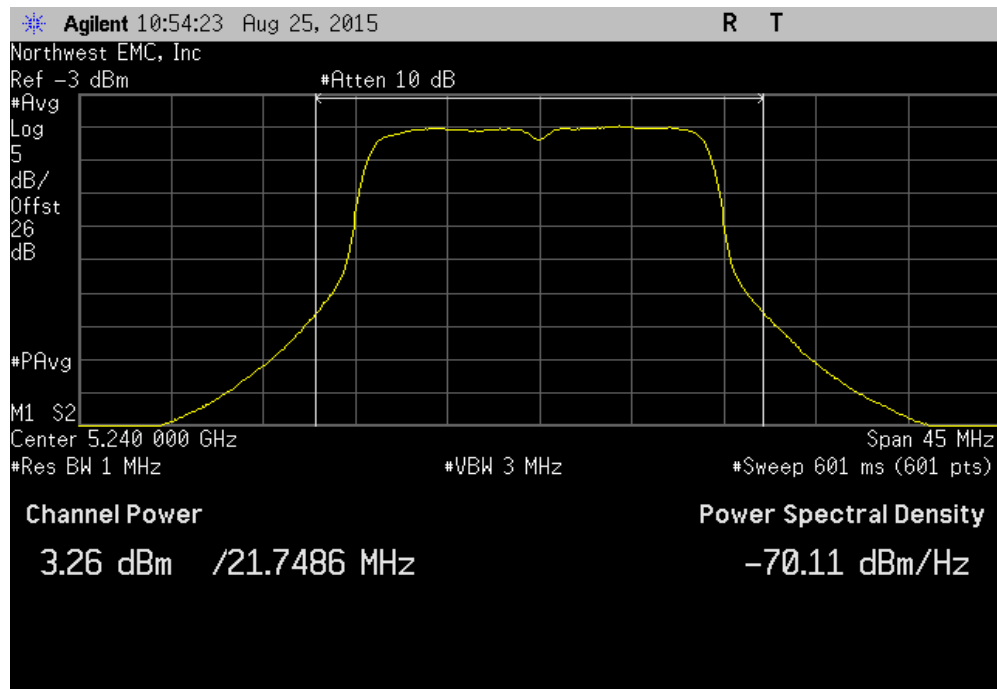


PEAK TRANSMIT POWER

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
3.383	0.7	4.1	24	Pass	

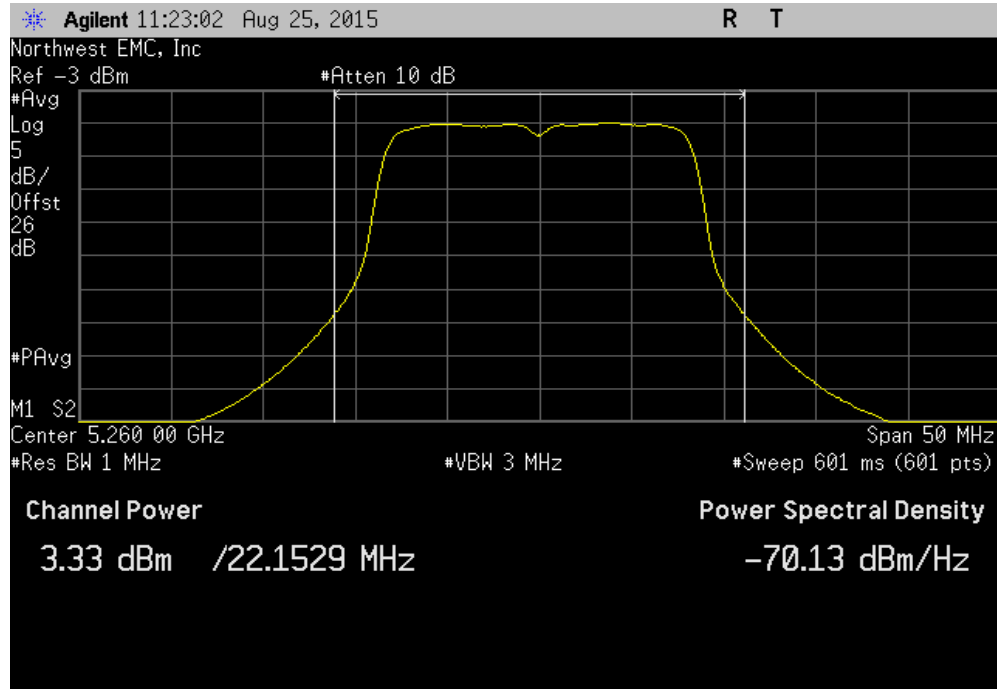


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
3.262	0.8	4	24	Pass	

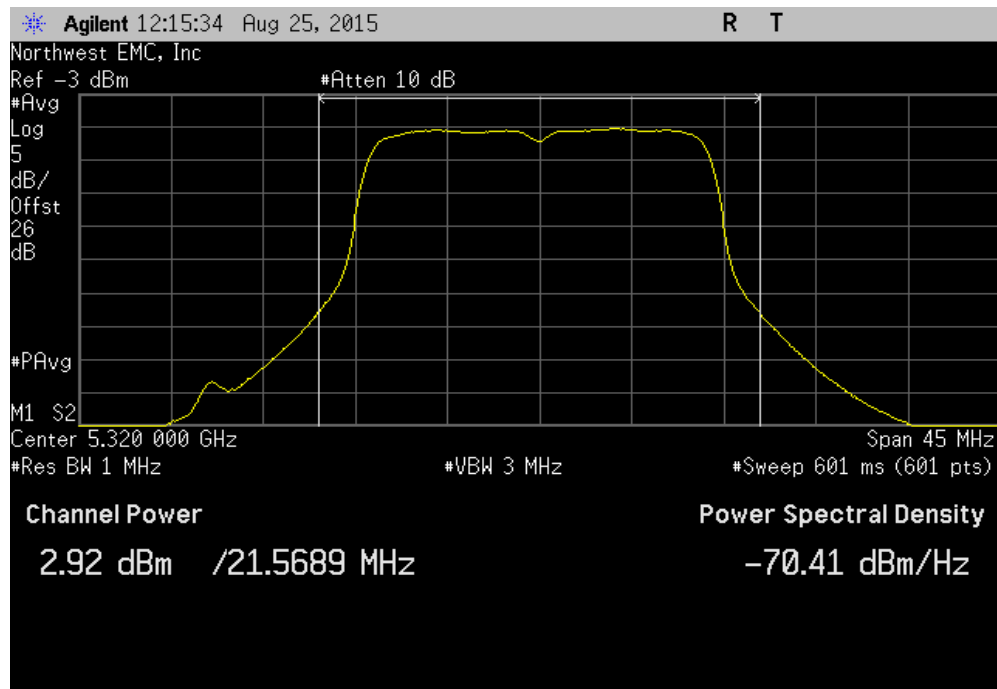


PEAK TRANSMIT POWER

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
3.326	0.8	4.2	24	Pass	

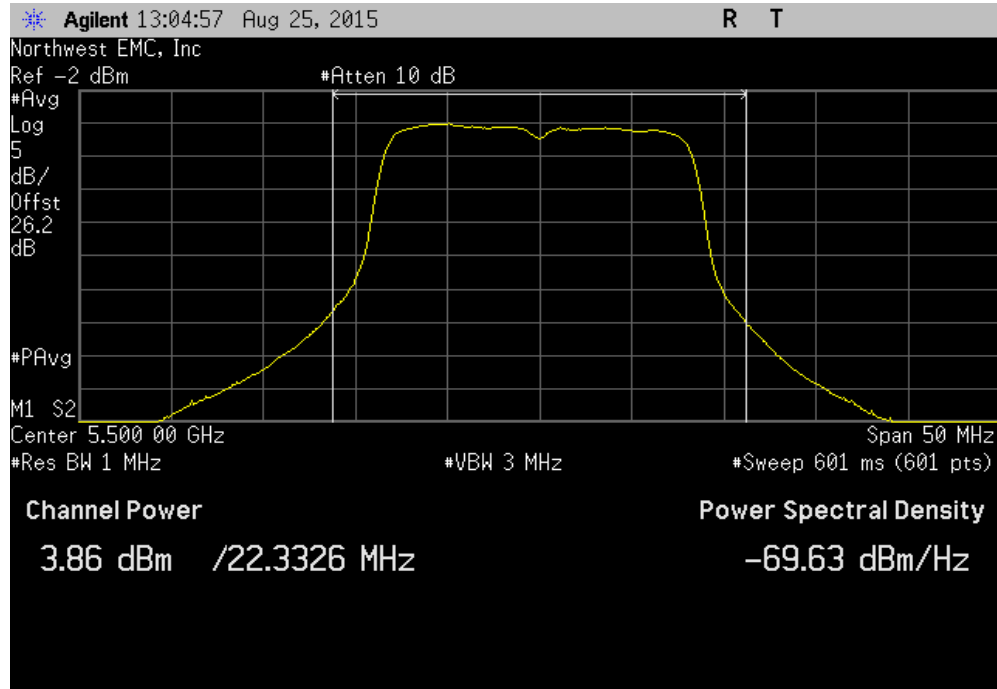


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
2.925	0.8	3.7	24	Pass	

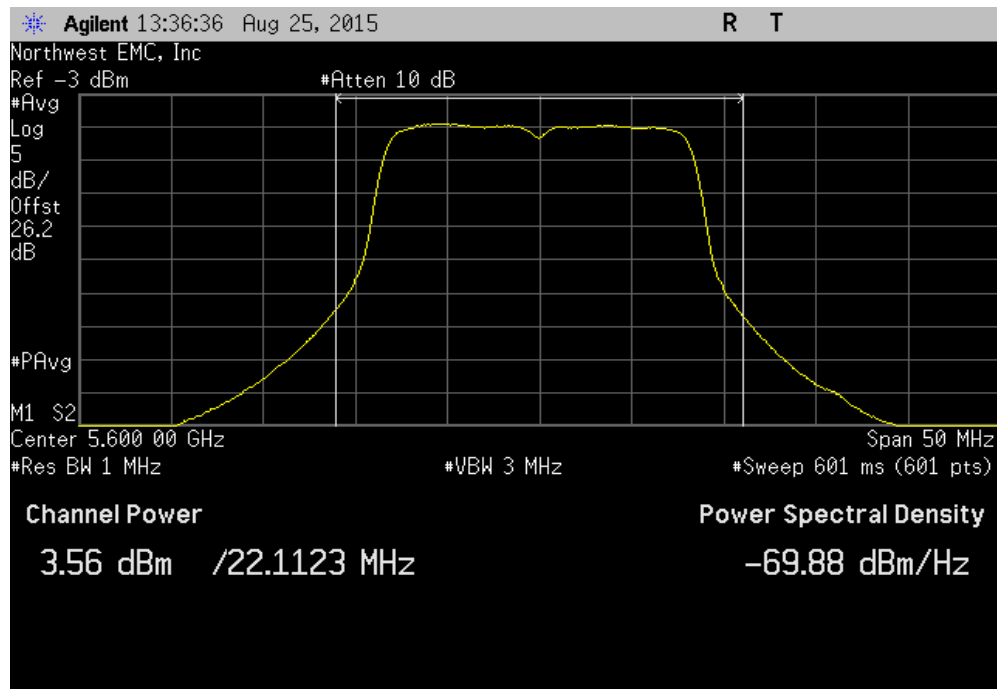


PEAK TRANSMIT POWER

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
3.858	0.8	4.6	24	Pass	

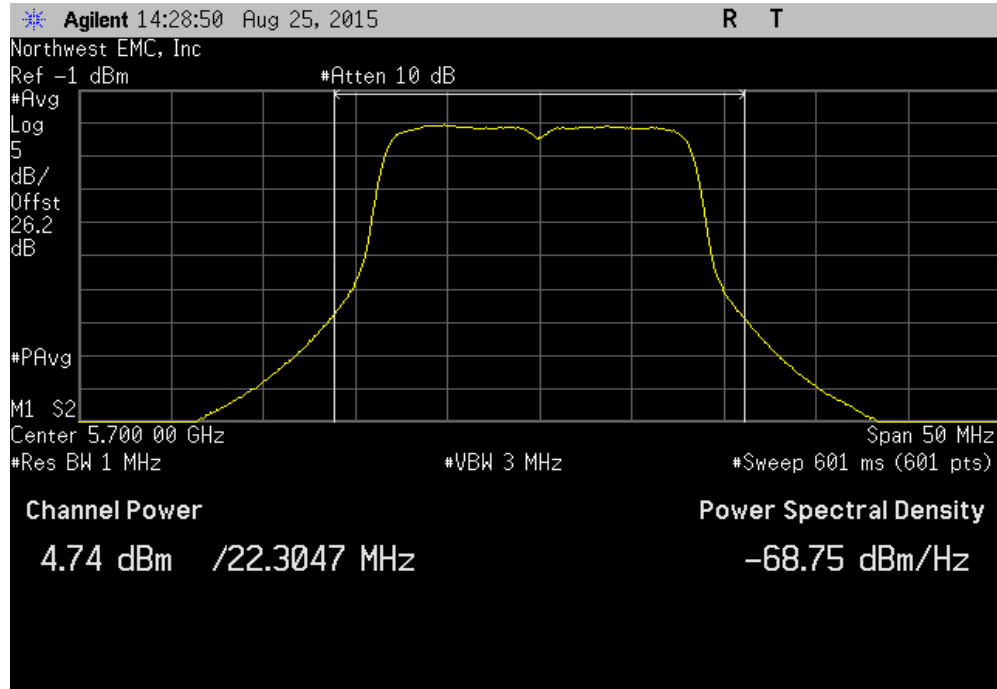


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel					
Avg Cond	Duty Cycle	EIRP	Limit	Results	
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)		
3.564	0.8	4.4	24	Pass	

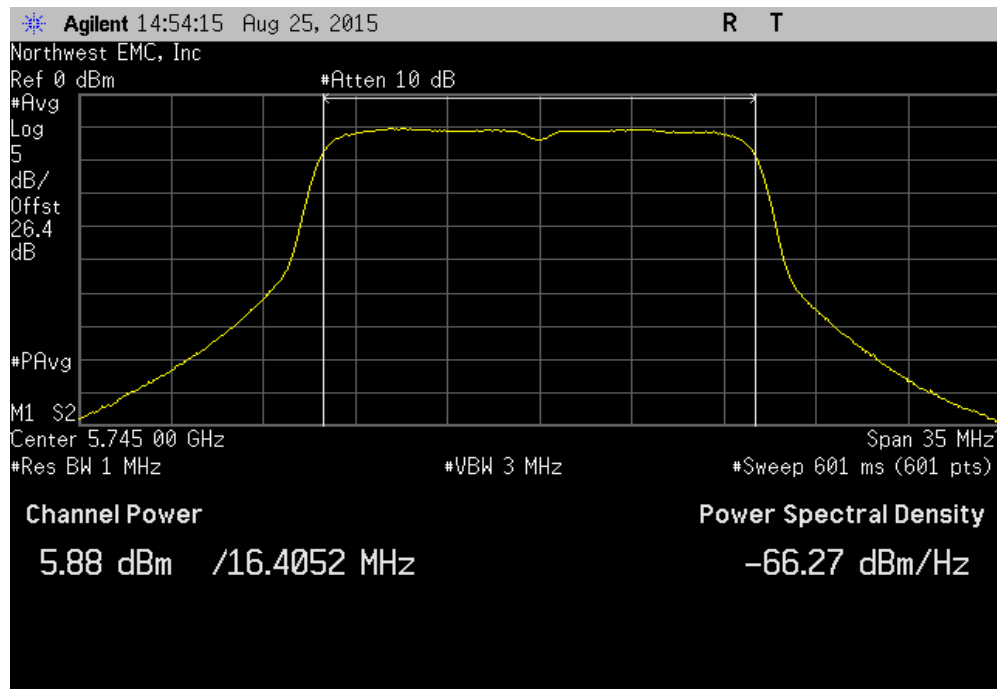


PEAK TRANSMIT POWER

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
4.737	0.8	5.5	24	Pass		

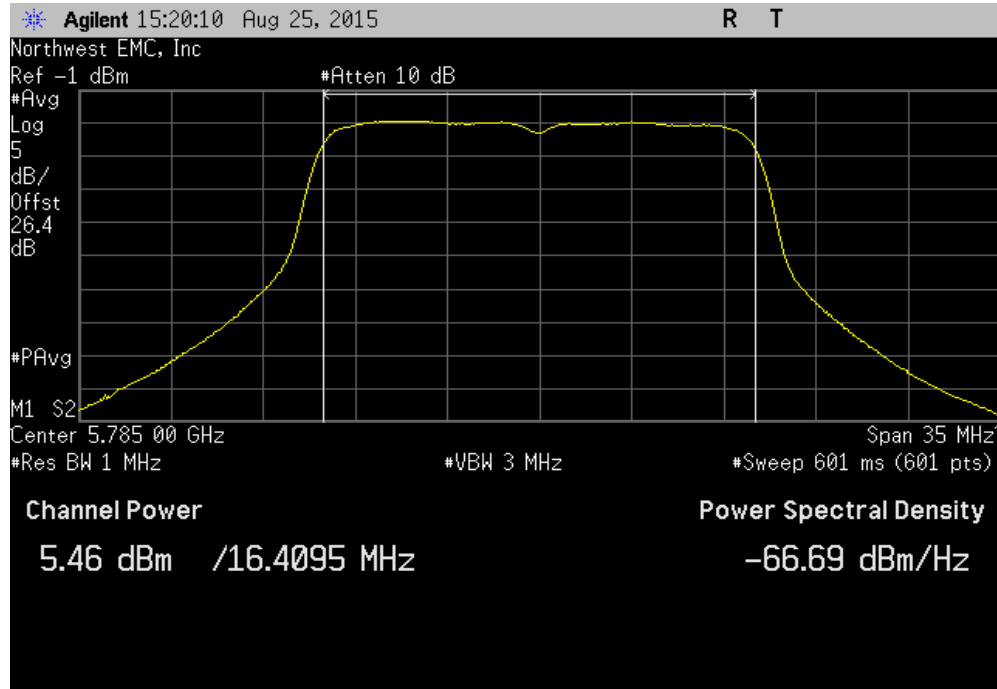


802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.877	0.8	6.6	30	Pass		

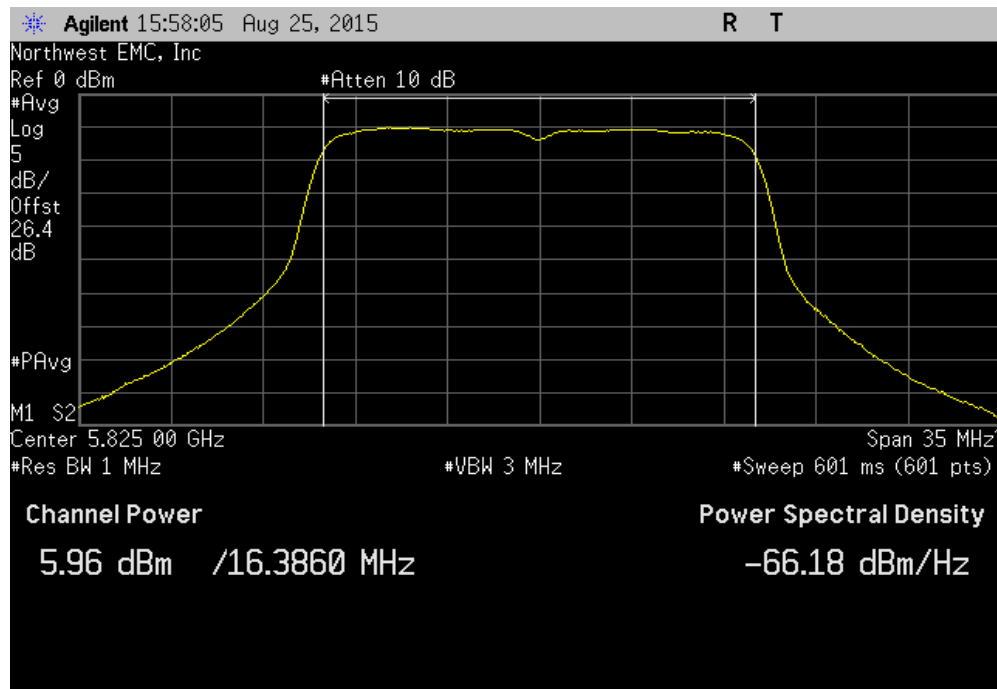


PEAK TRANSMIT POWER

802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.465	0.8	6.2	30	Pass		

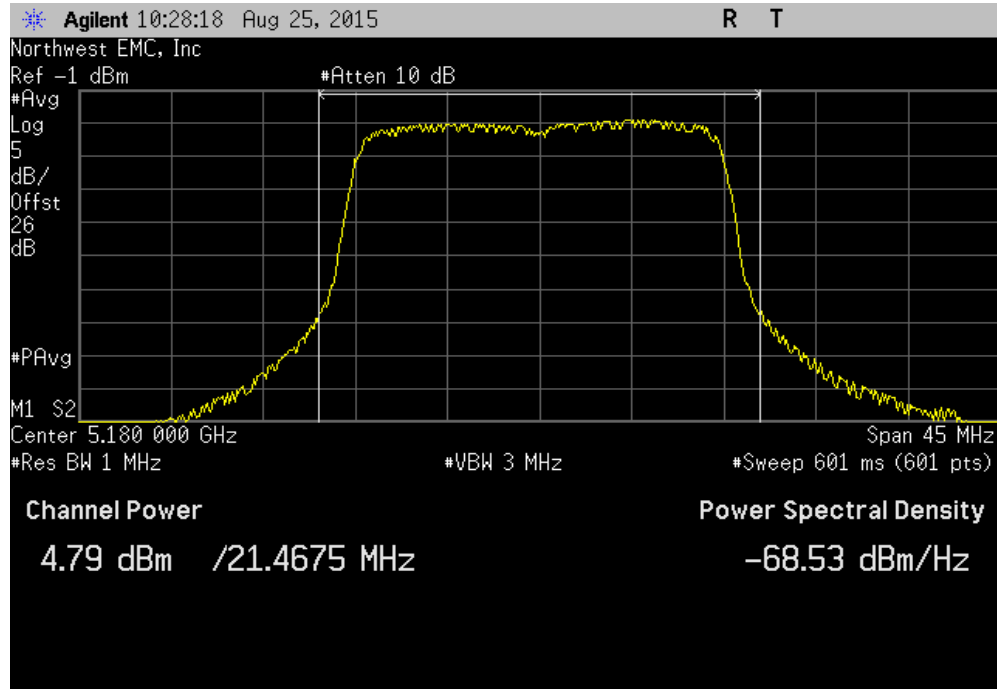


802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.964	0.8	6.8	30	Pass		

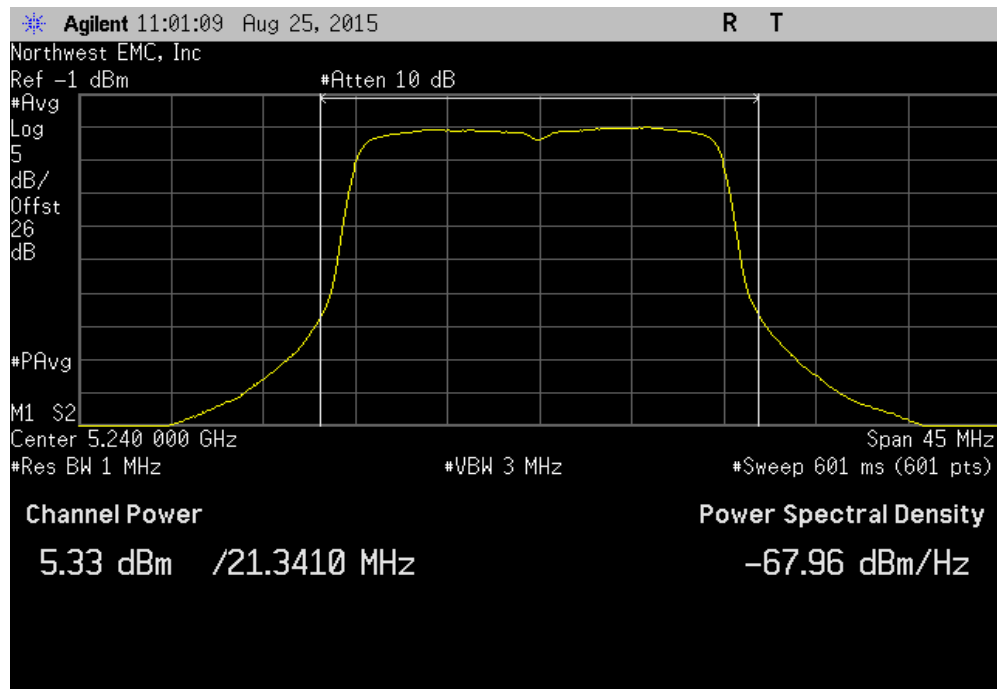


PEAK TRANSMIT POWER

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	4.791	0.1		4.9	24	Pass

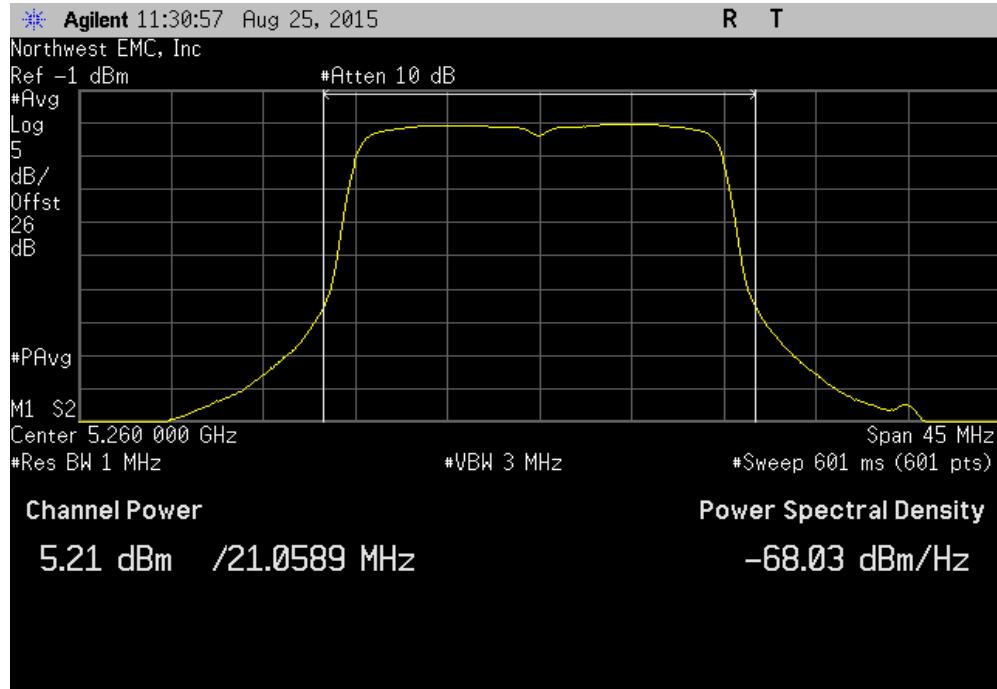


802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	5.331	0.1		5.4	24	Pass

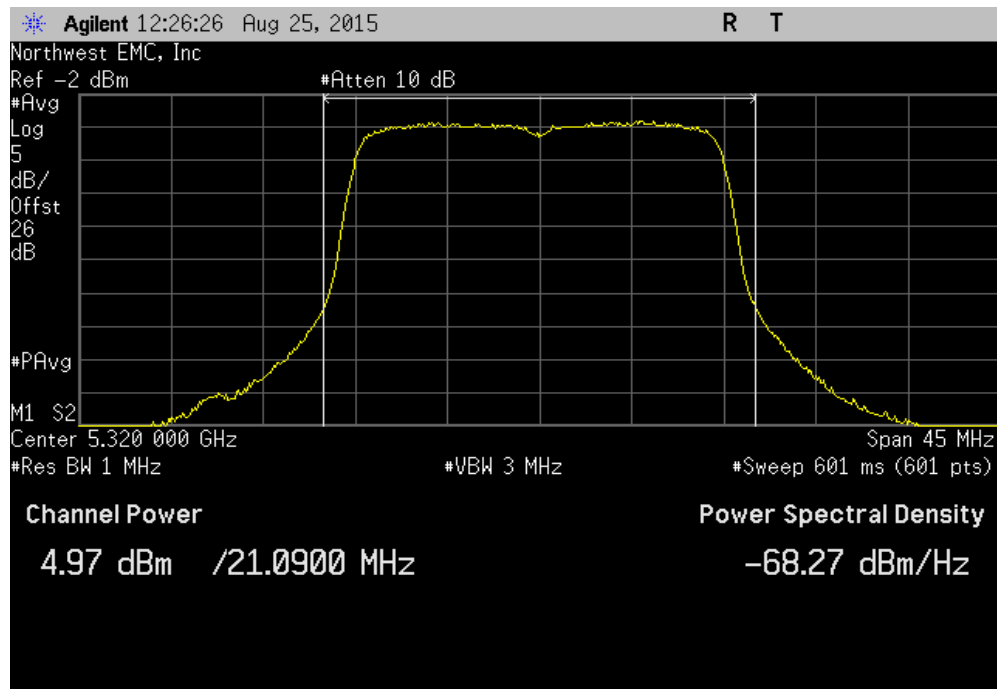


PEAK TRANSMIT POWER

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.207	0.1	5.3	24	Pass		

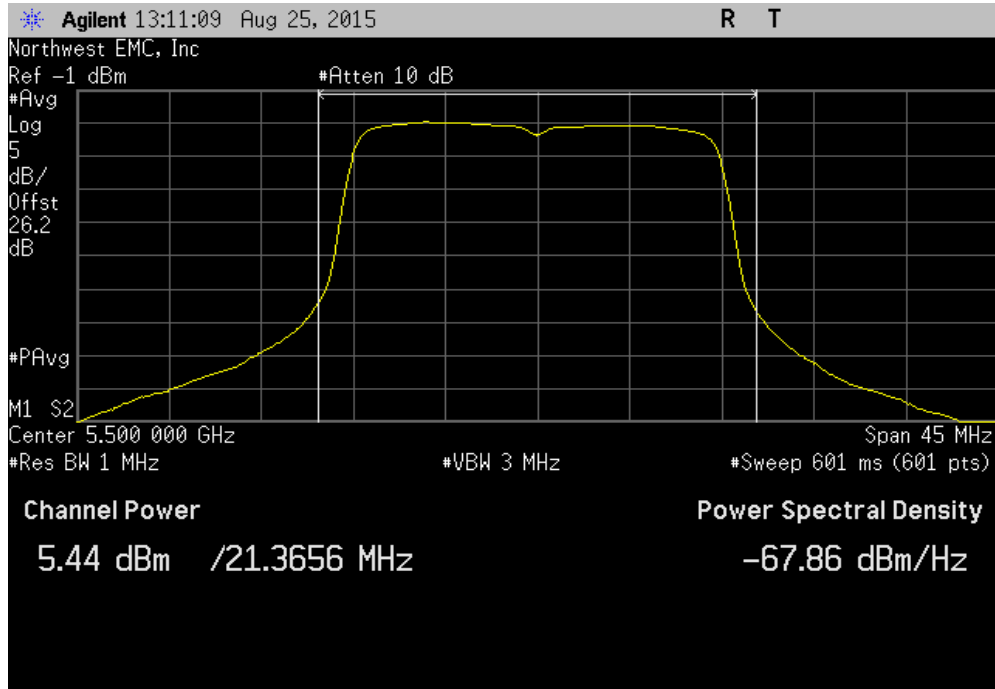


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
4.973	0.1	5.1	24	Pass		

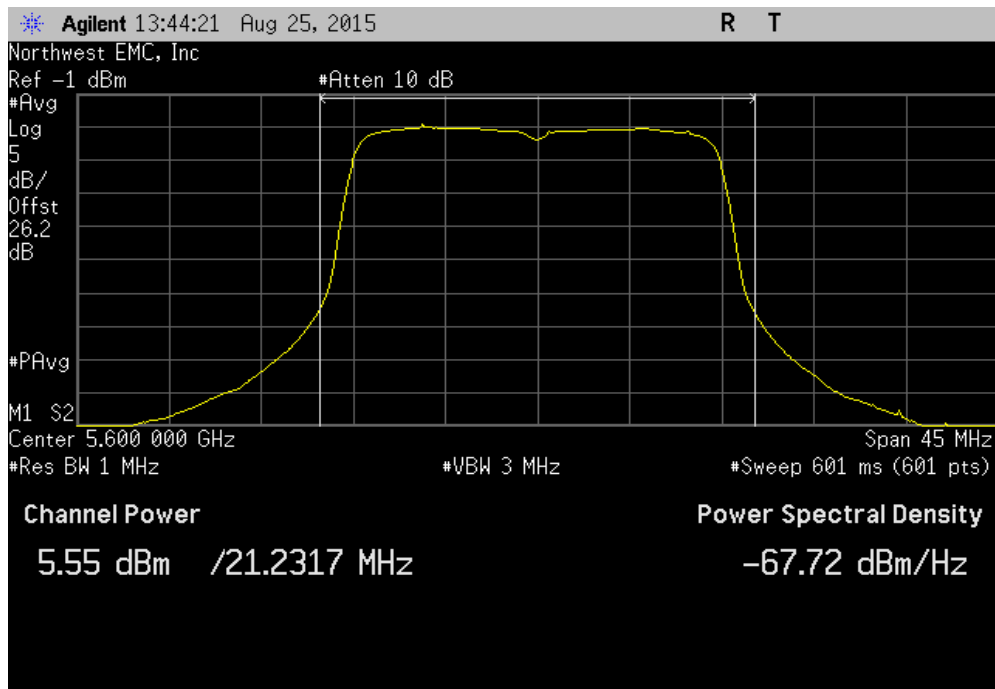


PEAK TRANSMIT POWER

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	5.438	0.1		5.5	24	Pass

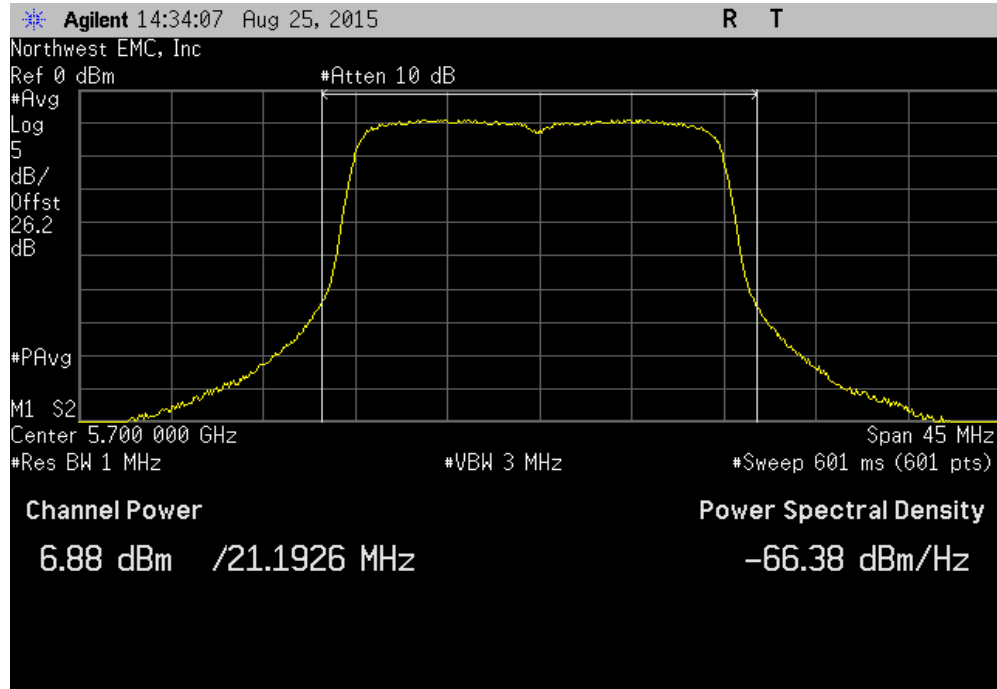


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	5.553	0.1		5.7	24	Pass

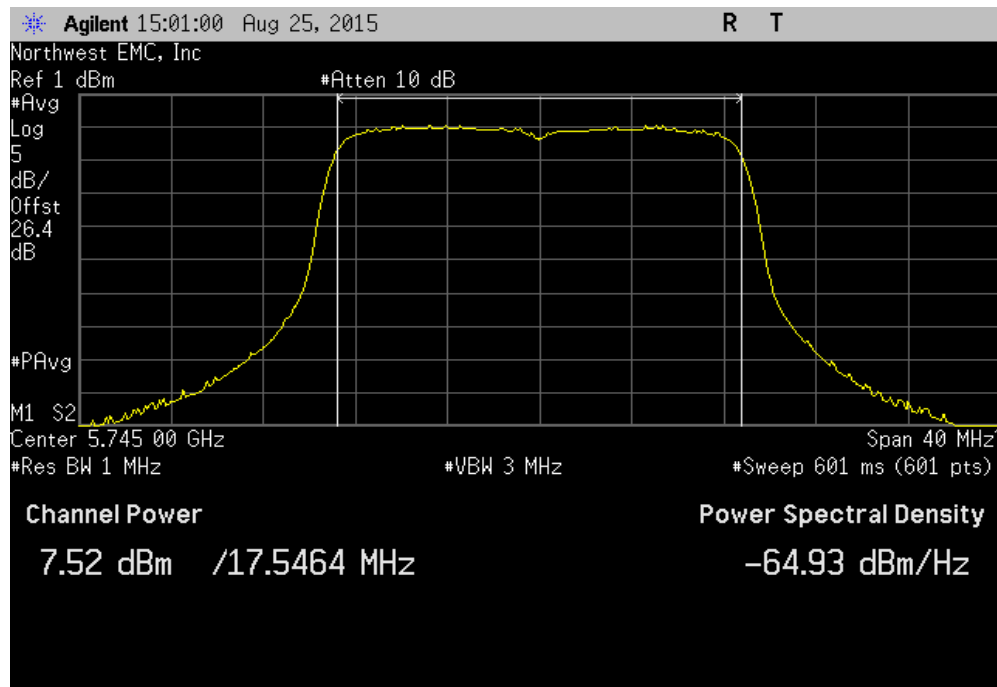


PEAK TRANSMIT POWER

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.883	0.1	7	24	Pass		

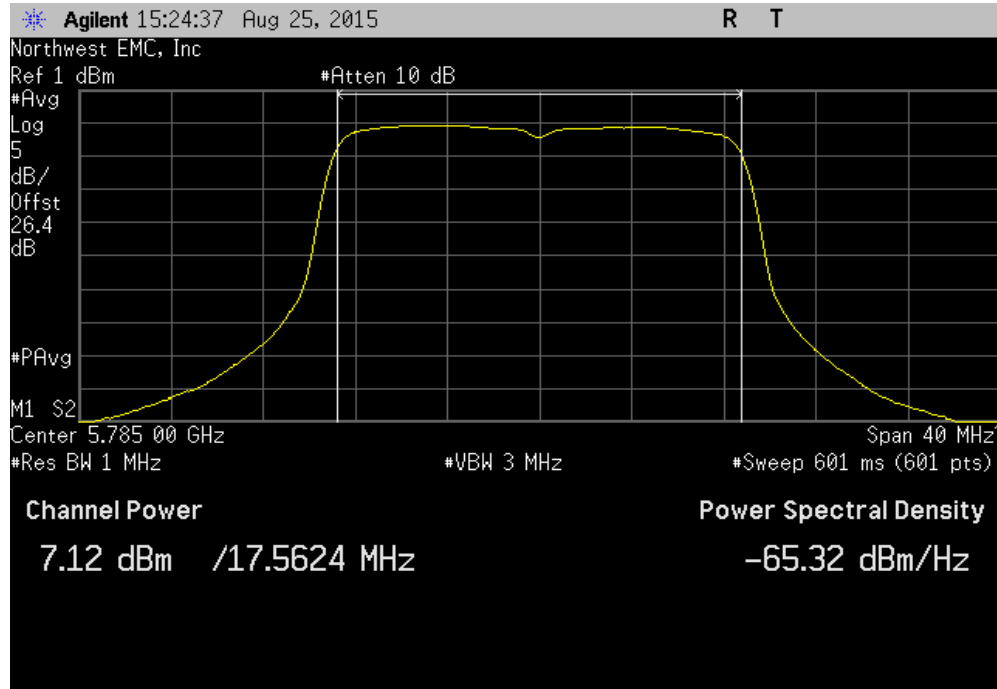


802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Avg Cond	Duty Cycle	EIRP	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.517	0.1	7.6	30	Pass		

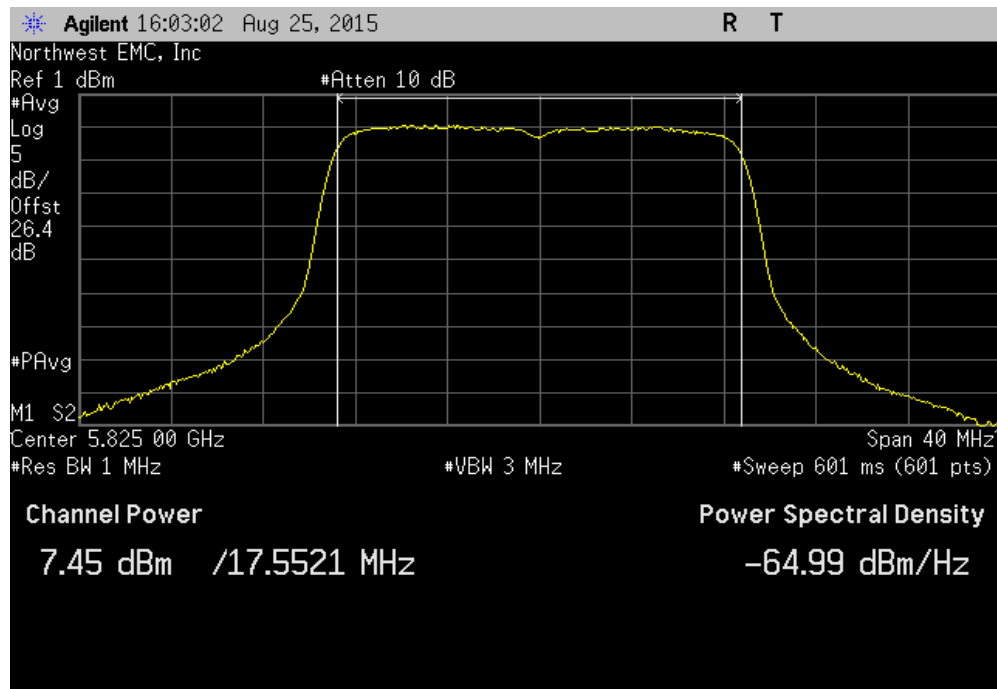


PEAK TRANSMIT POWER

802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	7.122	0.1		7.2	30	Pass

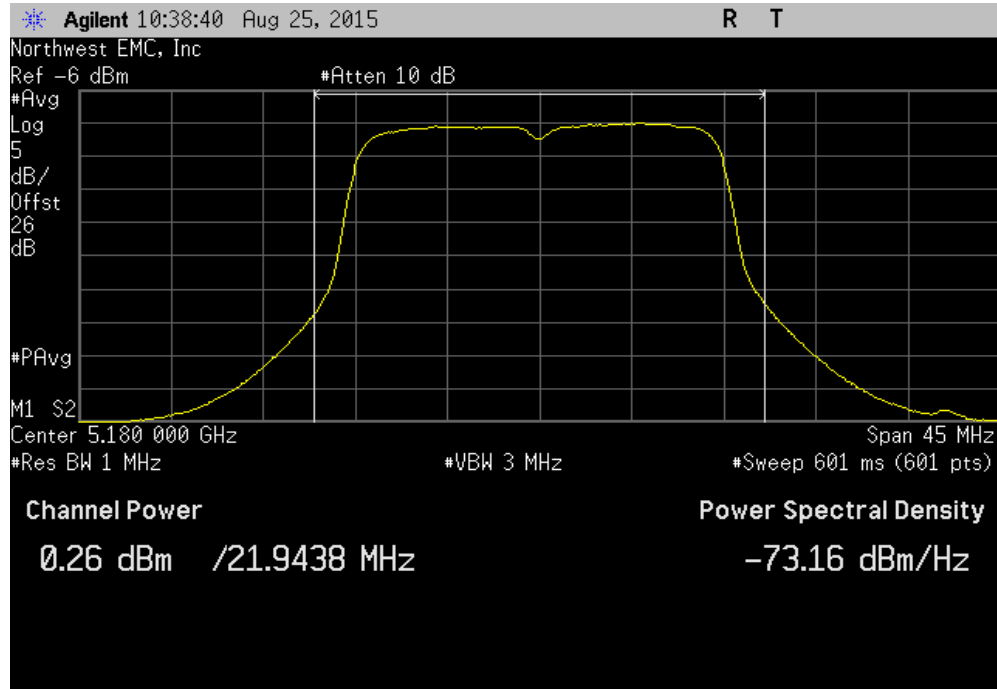


802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 165, High Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	7.452	0.1		7.6	30	Pass

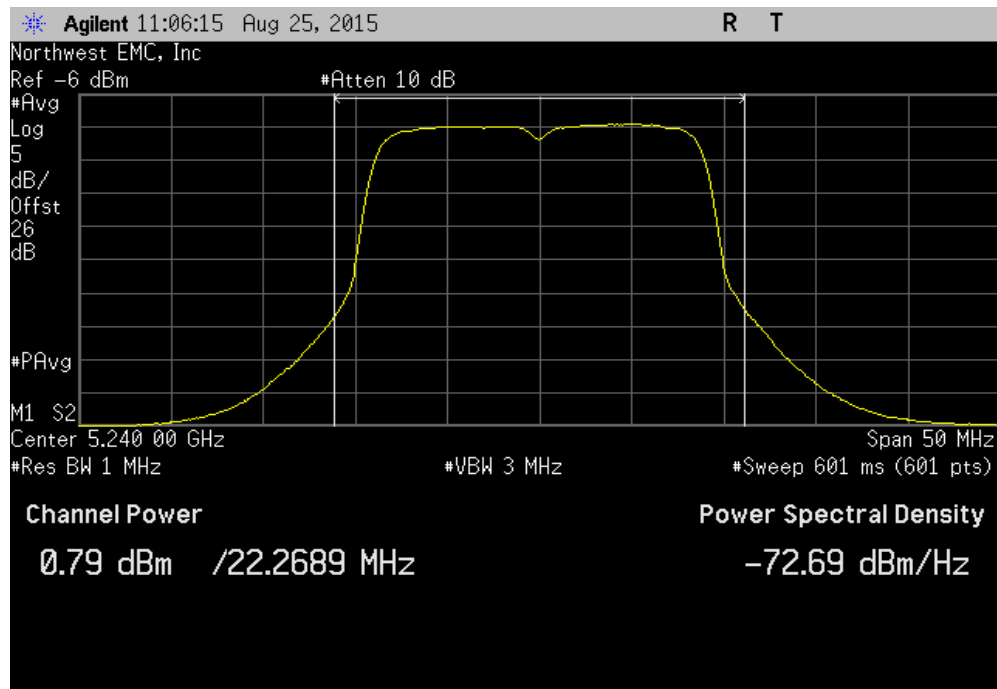


PEAK TRANSMIT POWER

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	EIRP (dBm)	Limit (dBm)	Results		
0.256	0.8	1.1	24	Pass		

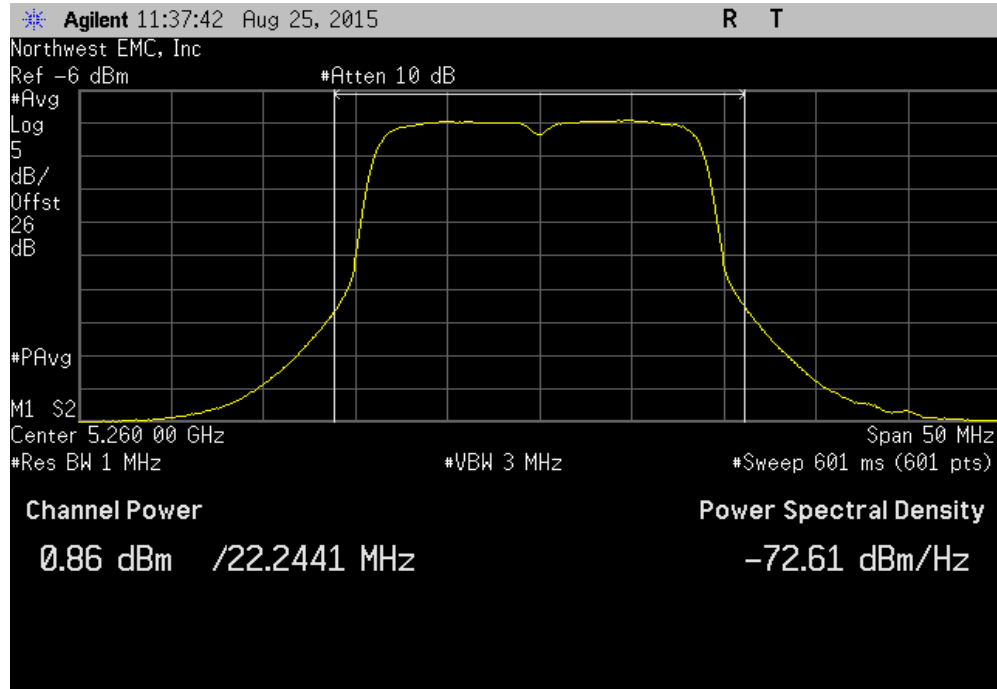


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	EIRP (dBm)	Limit (dBm)	Results		
0.791	0.8	1.6	24	Pass		

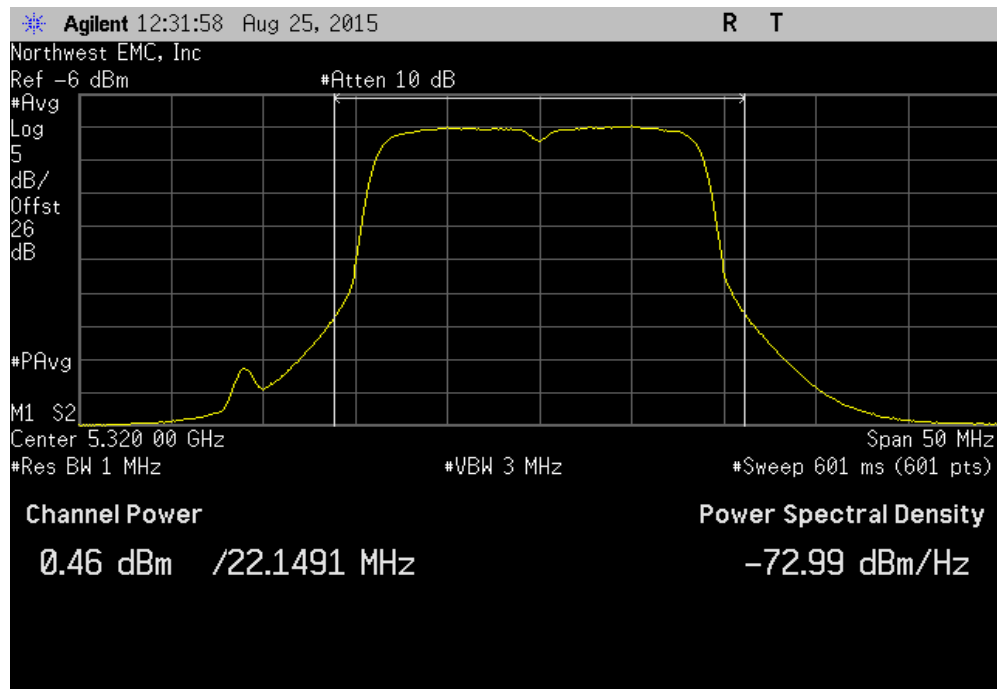


PEAK TRANSMIT POWER

802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	EIRP (dBm)	Limit (dBm)	Results		
0.861	0.8	1.7	24	Pass		

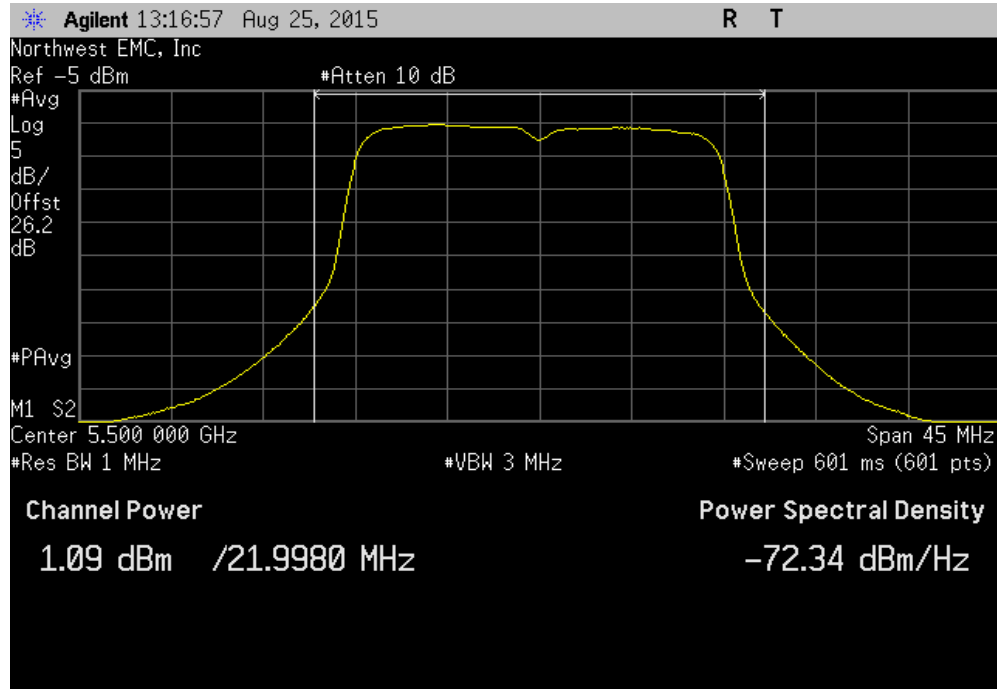


802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	EIRP (dBm)	Limit (dBm)	Results		
0.459	0.8	1.3	24	Pass		

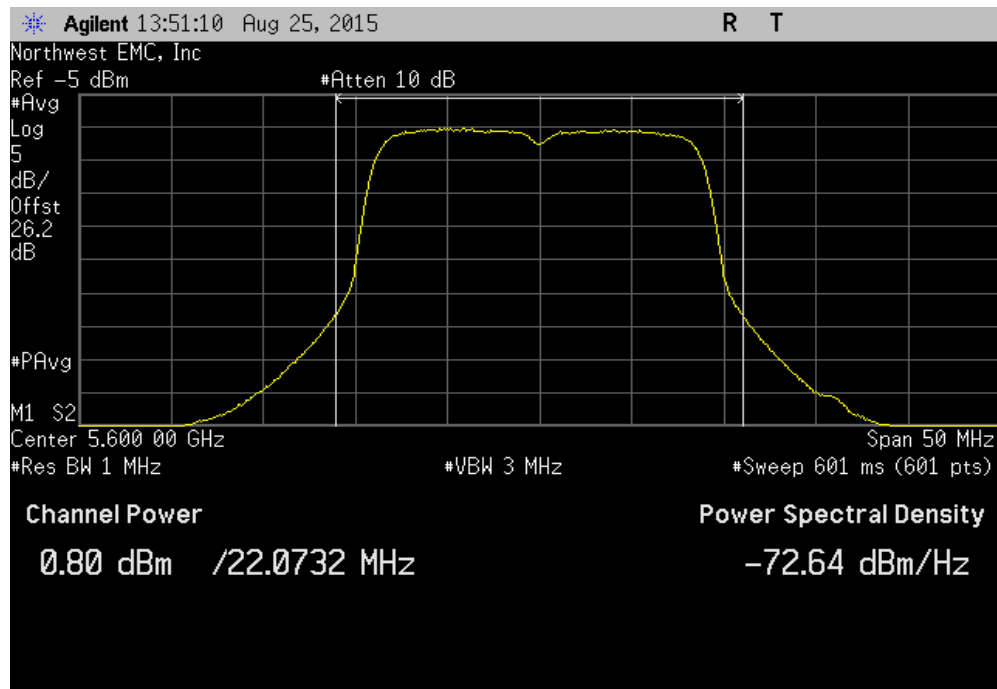


PEAK TRANSMIT POWER

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	1.086	0.8		1.9	24	Pass

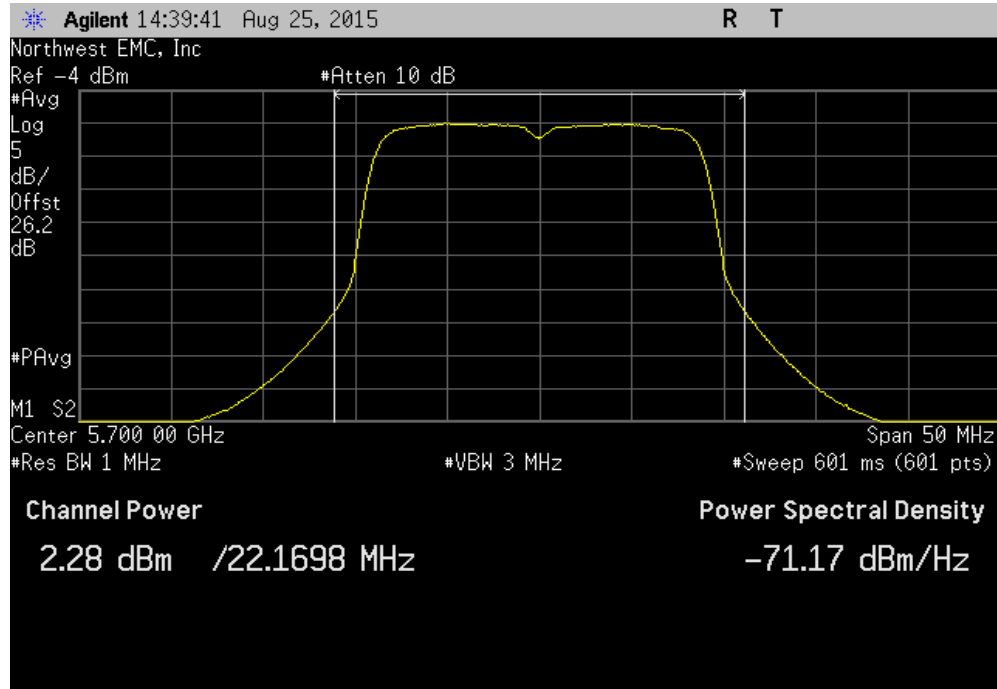


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	0.795	0.8		1.6	24	Pass

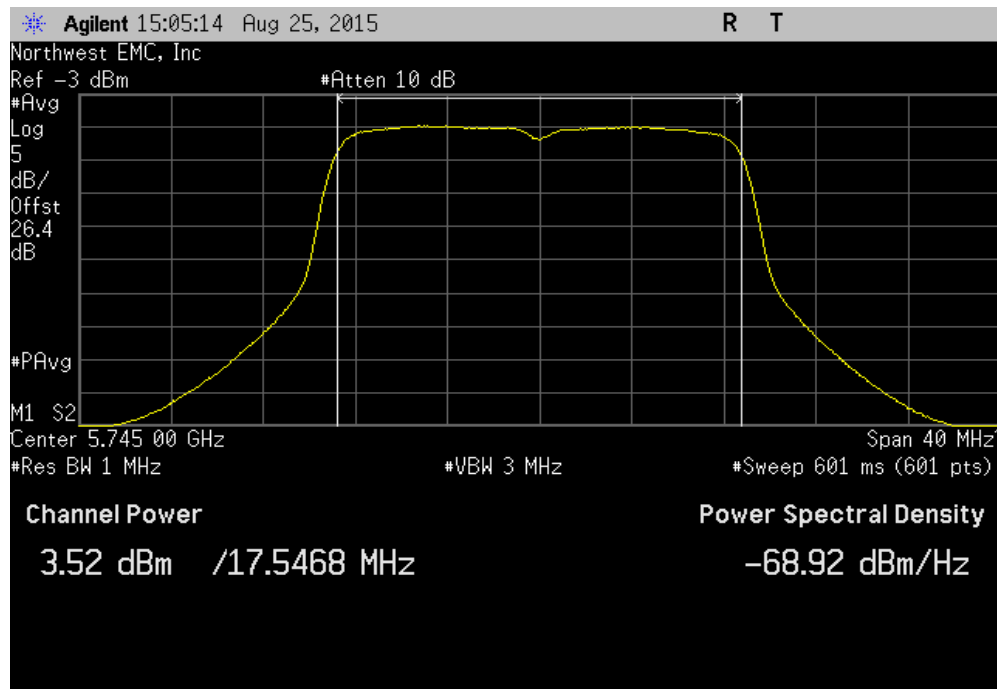


PEAK TRANSMIT POWER

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	2.284	0.8		3.1	24	Pass

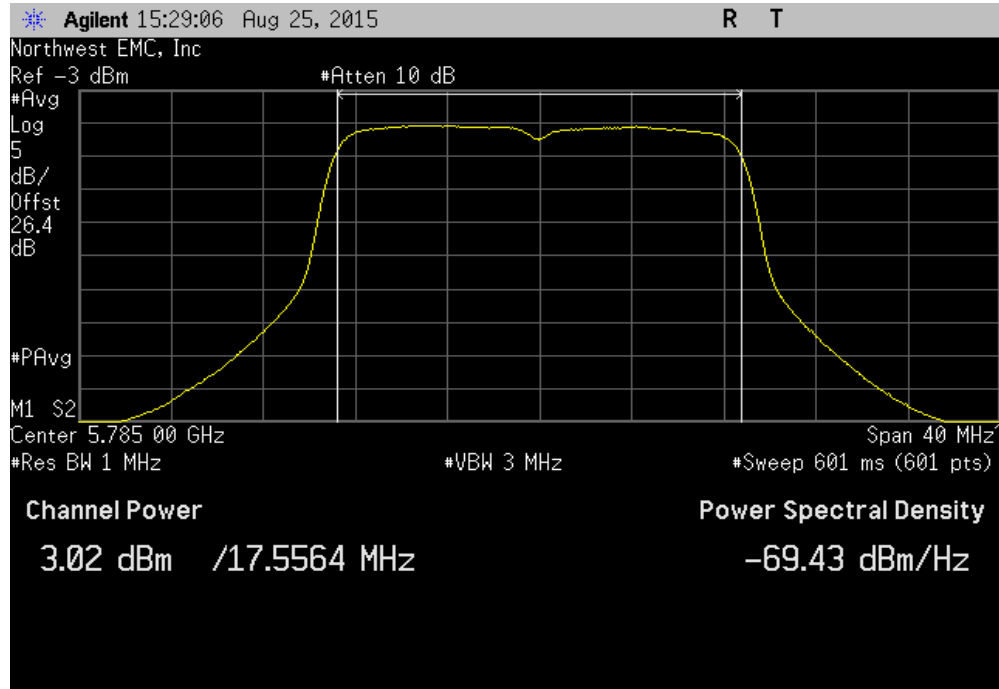


802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	3.524	0.8		4.4	30	Pass

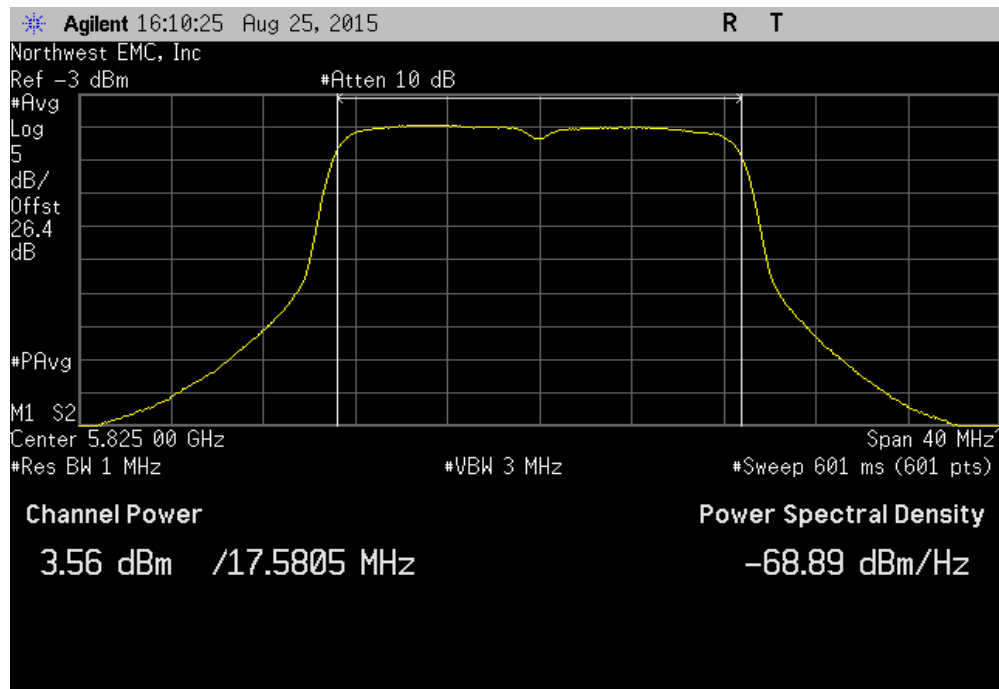


PEAK TRANSMIT POWER

802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	3.018	0.8		3.8	30	Pass



802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 165, High Channel						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)		EIRP (dBm)	Limit (dBm)	Results
	3.564	0.8		4.4	30	Pass



PEAK POWER SPECTRAL DENSITY

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 (mos)
Generator - Signal	Agilent	E8257D	TGU	2/5/2015	36
Block - DC	Aeroflex	INMET 8535	AMO	4/8/2015	12
Attenuator	Fairview Microwave	SA18H-20	TKR	4/8/2015	12
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures 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. 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.
- RBW = 1 MHz, VBW ≥ 3 MHz
- 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

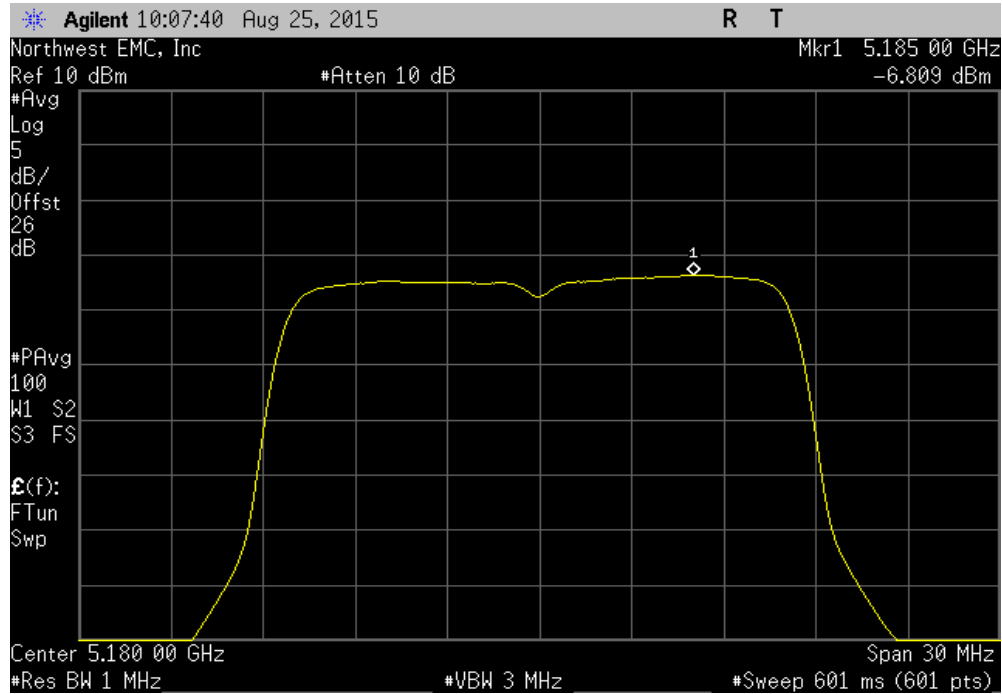


XMtr 2015.01.14

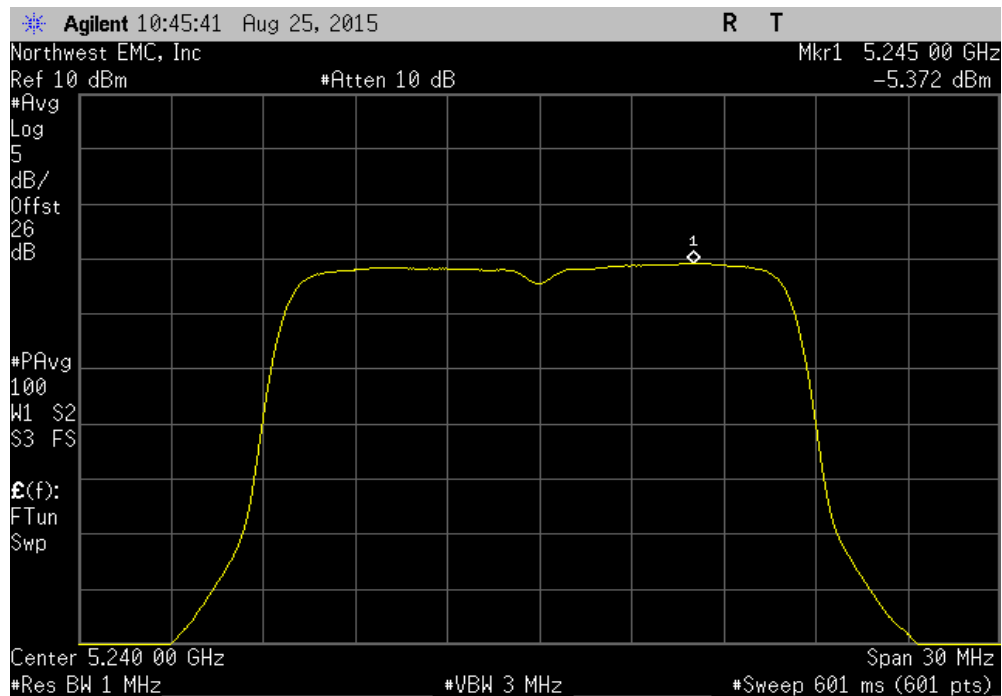
EUT: iViz			Work Order: SONO0377			
Serial Number: Q402KJ			Date: 08/25/15			
Customer: FUJIFILM Sonosite Manufacturing, LLC			Temperature: 22°C			
Attendees: None			Humidity: 50%			
Project: None			Barometric Pres.: 1014			
Tested by: Marty Martin & Johnny Candelas		Power: Battery	Job Site: OC13			
TEST SPECIFICATIONS			Test Method			
FCC 15.407:2015			ANSI C63.10:2013			
COMMENTS						
TX Power settings used from client provided Power Table DC Block/20dB Attenuator + coax cable + patch cable = 26.0dB for 5.2 & 5.3GHz, 26.24dB for 5.5GHz, and 26.43dB for 5.8GHz ranges						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	2	Signature 				
		Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results
802.11(a) 6 Mbps						
5150 - 5250 MHz Band						
	Channel 36, Low Channel	-6.809	0.1	-6.7	11	Pass
	Channel 48, High Channel	-5.372	0.1	-5.3	11	Pass
5250 - 5350 MHz Band						
	Channel 52, Low Channel	-5.625	0.1	-5.5	11	Pass
	Channel 64, High Channel	-5.858	0.1	-5.8	11	Pass
5470 - 5725 MHz Band						
	Channel 100, Low Channel	-4.985	0.1	-4.9	11	Pass
	Channel 120, Mid Channel	-5.32	0.1	-5.2	11	Pass
	Channel 140, High Channel	-4.094	0.1	-4	11	Pass
5725 - 5850 MHz Band						
	Channel 149, Low Channel	-6.077	0.1	-6	30	Pass
	Channel 157, Mid Channel	-6.409	0.1	-6.3	30	Pass
	Channel 165, High Channel	-6.117	0.1	-6	30	Pass
802.11(a) 36 Mbps						
5150 - 5250 MHz Band						
	Channel 36, Low Channel	-5.139	0.5	-4.6	11	Pass
	Channel 48, High Channel	-4.704	0.5	-4.2	11	Pass
5250 - 5350 MHz Band						
	Channel 52, Low Channel	-4.782	0.5	-4.3	11	Pass
	Channel 64, High Channel	-6.17	0.5	-5.6	11	Pass
5470 - 5725 MHz Band						
	Channel 100, Low Channel	-4.588	0.5	-4.1	11	Pass
	Channel 120, Mid Channel	-5.233	0.5	-4.7	11	Pass
	Channel 140, High Channel	-4.08	0.5	-3.6	11	Pass
5725 - 5850 MHz Band						
	Channel 149, Low Channel	-5.739	0.5	-5.2	30	Pass
	Channel 157, Mid Channel	-6.209	0.5	-5.7	30	Pass
	Channel 165, High Channel	-5.719	0.5	-5.2	30	Pass
802.11(a) 54 Mbps						
5150 - 5250 MHz Band						
	Channel 36, Low Channel	-7.925	0.7	-7.2	11	Pass
	Channel 48, High Channel	-8.134	0.8	-7.4	11	Pass
5250 - 5350 MHz Band						
	Channel 52, Low Channel	-8.109	0.8	-7.3	11	Pass
	Channel 64, High Channel	-8.506	0.8	-7.7	11	Pass
5470 - 5725 MHz Band						
	Channel 100, Low Channel	-7.322	0.8	-6.6	11	Pass
	Channel 120, Mid Channel	-7.818	0.8	-7	11	Pass
	Channel 140, High Channel	-6.68	0.8	-5.9	11	Pass
5725 - 5850 MHz Band						
	Channel 149, Low Channel	-8.319	0.8	-7.6	30	Pass
	Channel 157, Mid Channel	-8.577	0.8	-7.8	30	Pass
	Channel 165, High Channel	-8.14	0.8	-7.3	30	Pass
802.11(n) MCS0						
5150 - 5250 MHz Band						
	Channel 36, Low Channel	-6.701	0.1	-6.6	11	Pass
	Channel 48, High Channel	-6.265	0.1	-6.2	11	Pass
5250 - 5350 MHz Band						
	Channel 52, Low Channel	-6.406	0.1	-6.3	11	Pass
	Channel 64, High Channel	-6.69	0.1	-6.6	11	Pass
5470 - 5725 MHz Band						
	Channel 100, Low Channel	-6.078	0.1	-6	11	Pass
	Channel 120, Mid Channel	-6.152	0.1	-6	11	Pass
	Channel 140, High Channel	-4.938	0.1	-4.8	11	Pass
5725 - 5850 MHz Band						
	Channel 149, Low Channel	-6.944	0.1	-6.8	30	Pass
	Channel 157, Mid Channel	-7.217	0.1	-7.1	30	Pass
	Channel 165, High Channel	-6.898	0.1	-6.8	30	Pass
802.11(n) MCS7						
5150 - 5250 MHz Band						
	Channel 36, Low Channel	-11.209	0.8	-10.4	11	Pass
	Channel 48, High Channel	-10.759	0.8	-9.9	11	Pass
5250 - 5350 MHz Band						
	Channel 52, Low Channel	-10.807	0.8	-10	11	Pass
	Channel 64, High Channel	-11.183	0.8	-10.4	11	Pass
5470 - 5725 MHz Band						
	Channel 100, Low Channel	-10.398	0.8	-9.6	11	Pass
	Channel 120, Mid Channel	-10.856	0.8	-10	11	Pass
	Channel 140, High Channel	-9.395	0.8	-8.6	11	Pass
5725 - 5850 MHz Band						
	Channel 149, Low Channel	-10.898	0.8	-10.1	30	Pass
	Channel 157, Mid Channel	-11.349	0.8	-10.5	30	Pass
	Channel 165, High Channel	-10.83	0.8	-10	30	Pass

PEAK POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.809	0.1	-6.7	11	Pass		

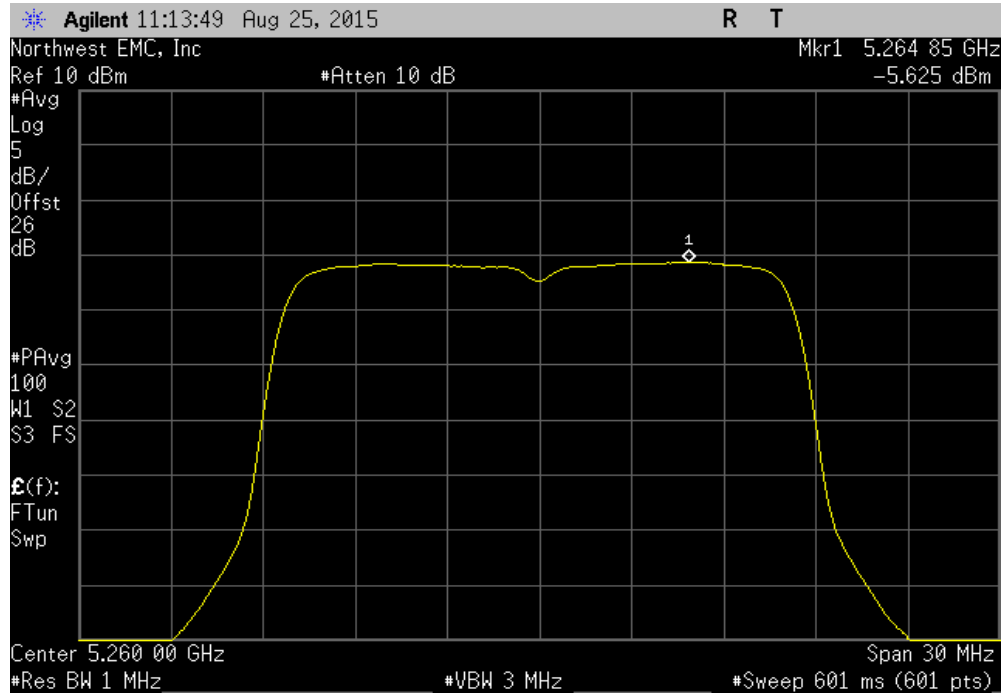


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.372	0.1	-5.3	11	Pass		

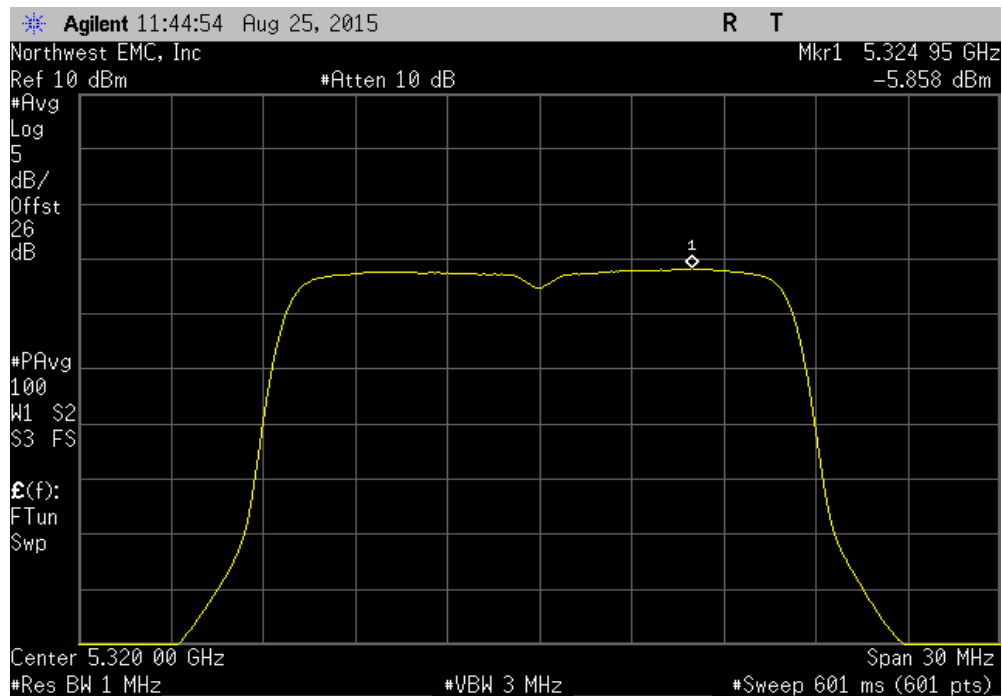


PEAK POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.625	0.1	-5.5	11	Pass		

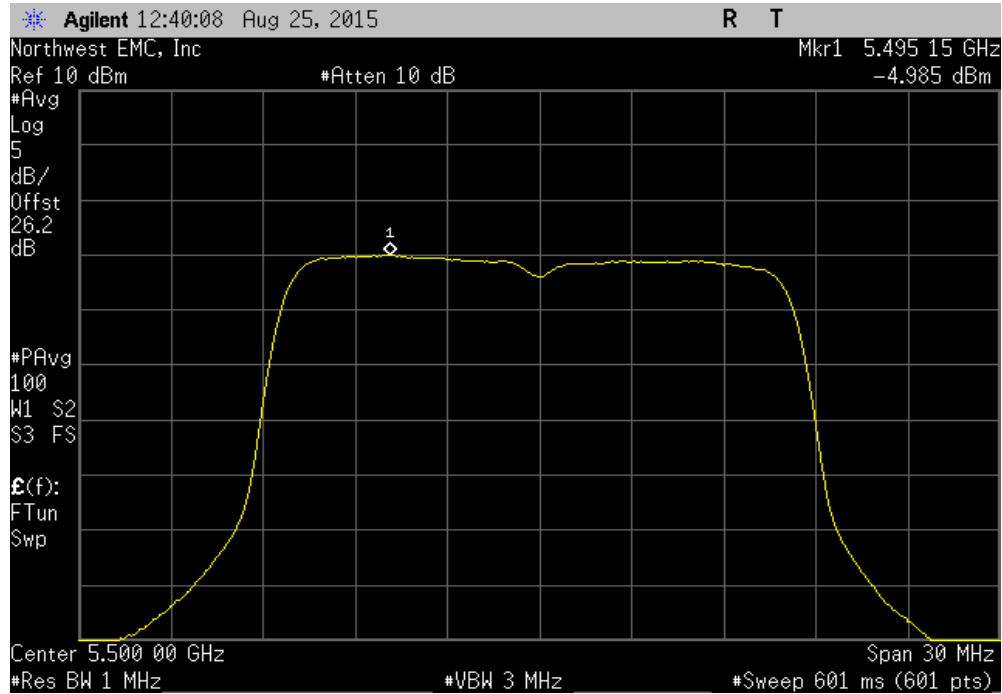


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.858	0.1	-5.8	11	Pass		

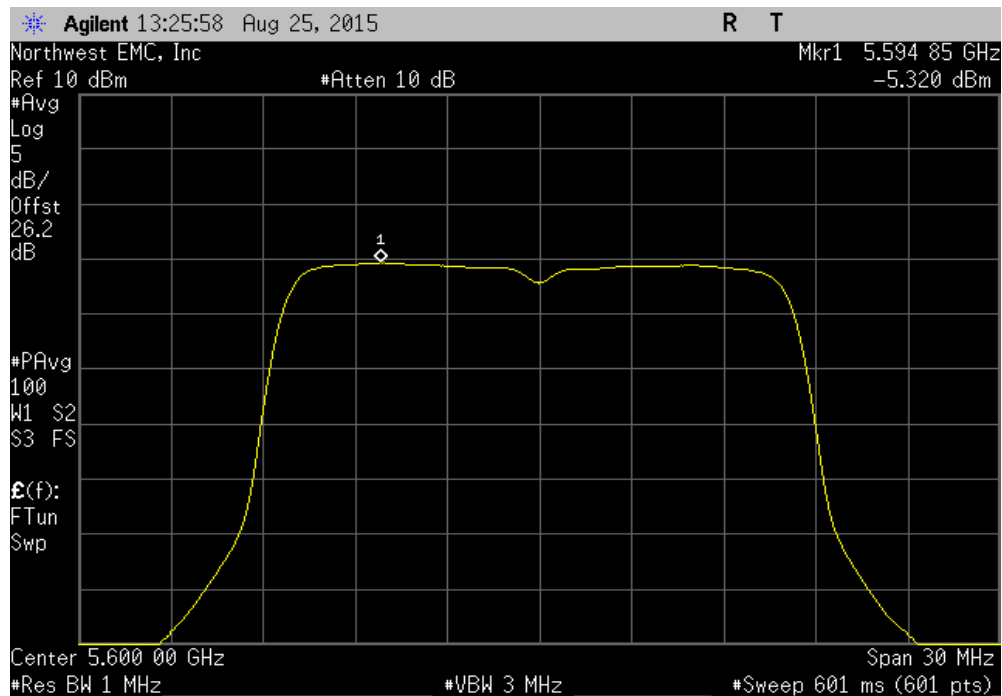


PEAK POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-4.985	0.1	-4.9	11	Pass		

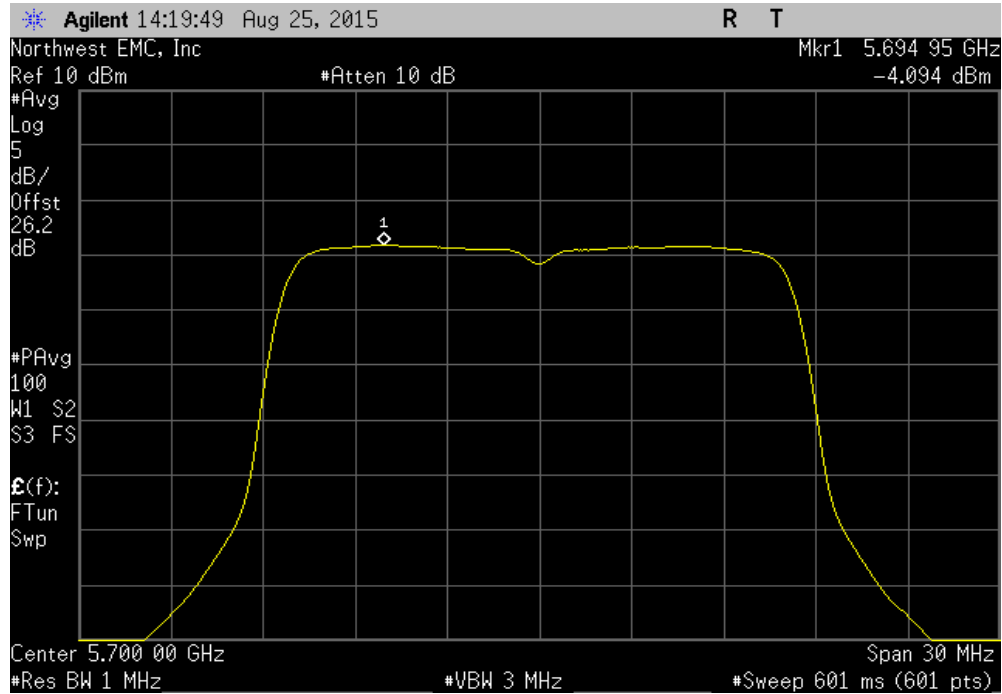


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.32	0.1	-5.2	11	Pass		

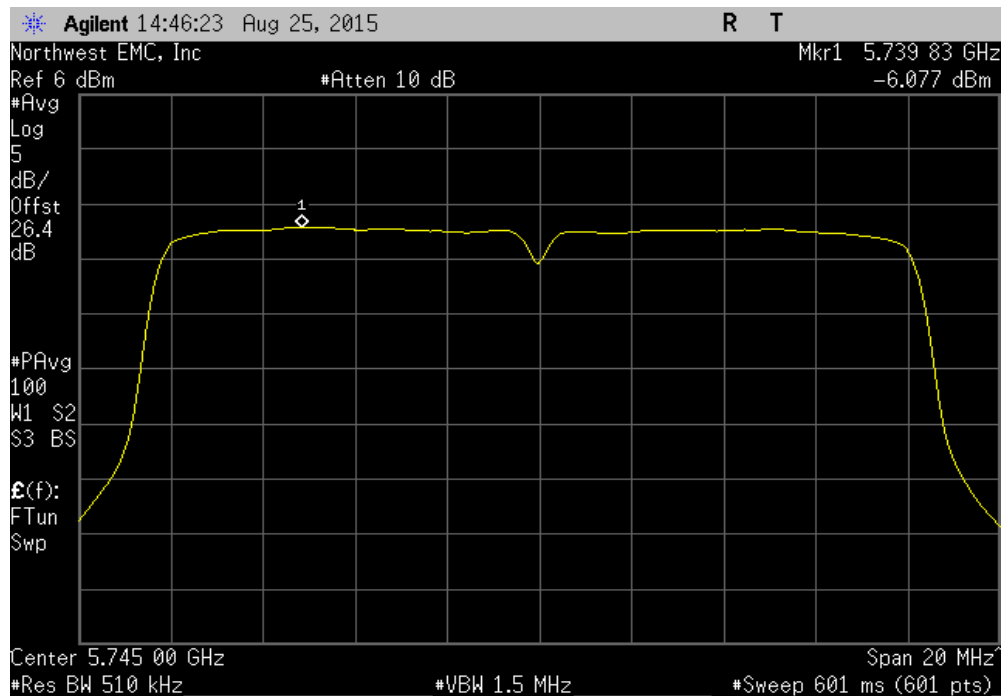


PEAK POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-4.094	0.1	-4	11	Pass		

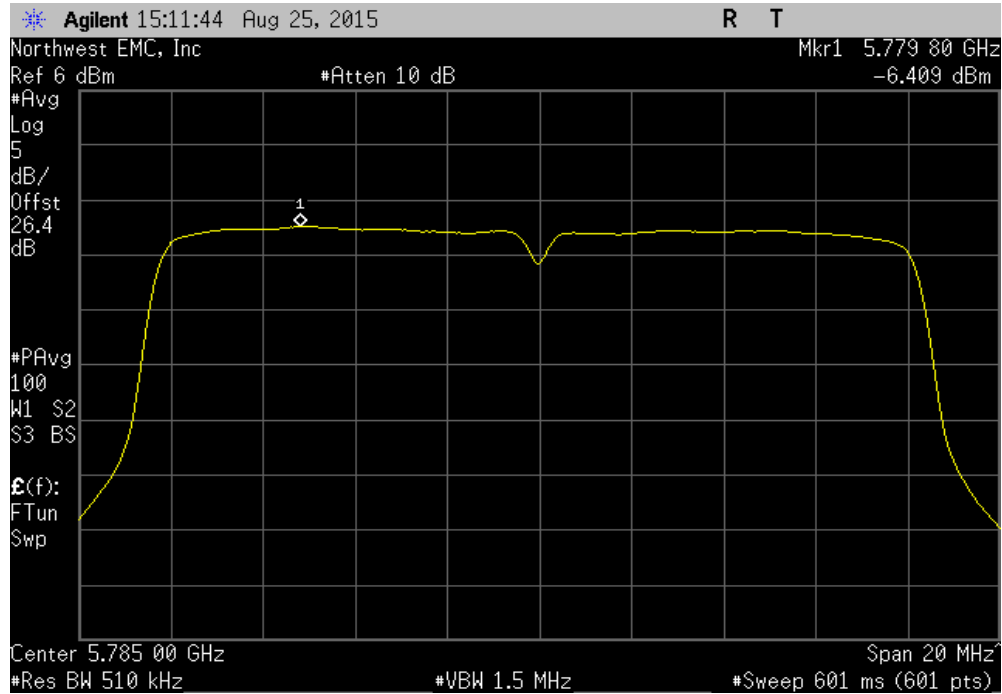


802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.077	0.1	-6	30	Pass		

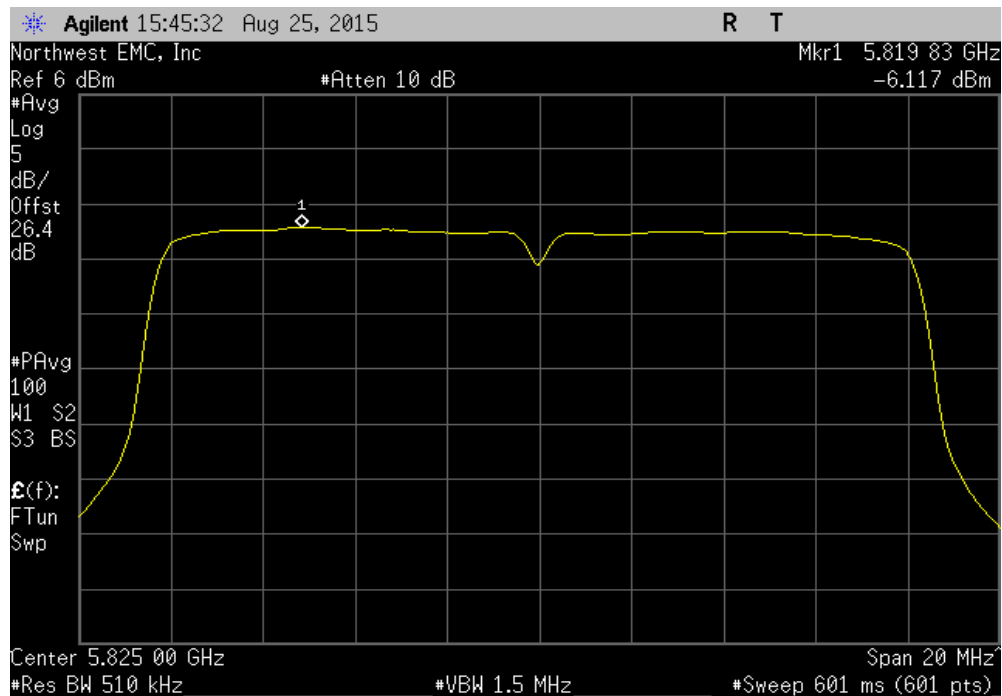


PEAK POWER SPECTRAL DENSITY

802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.409	0.1	-6.3	30	Pass		

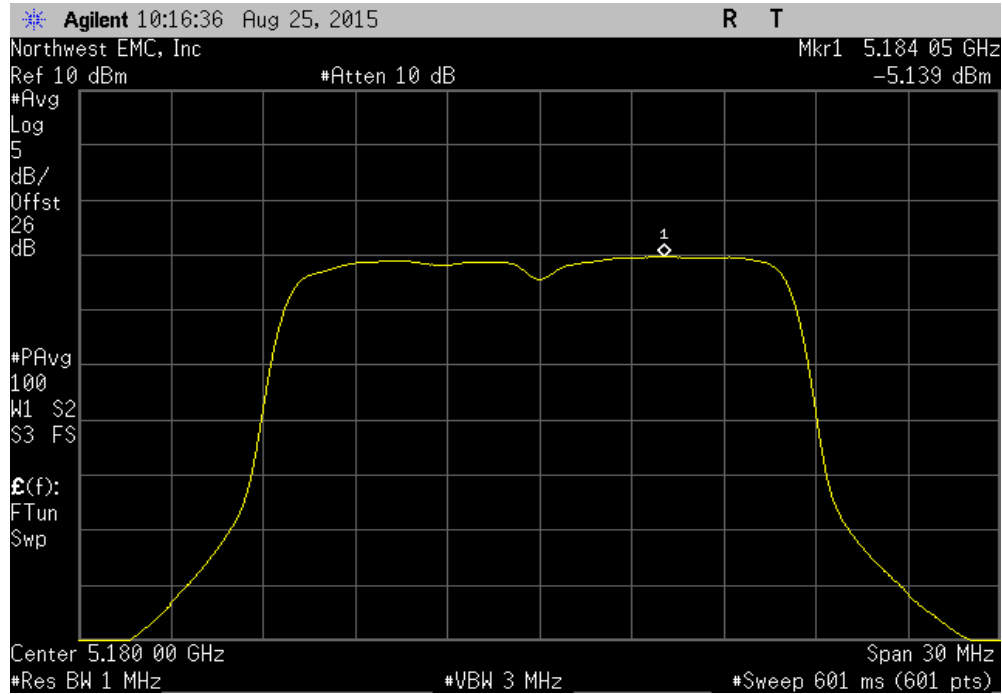


802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.117	0.1	-6	30	Pass		

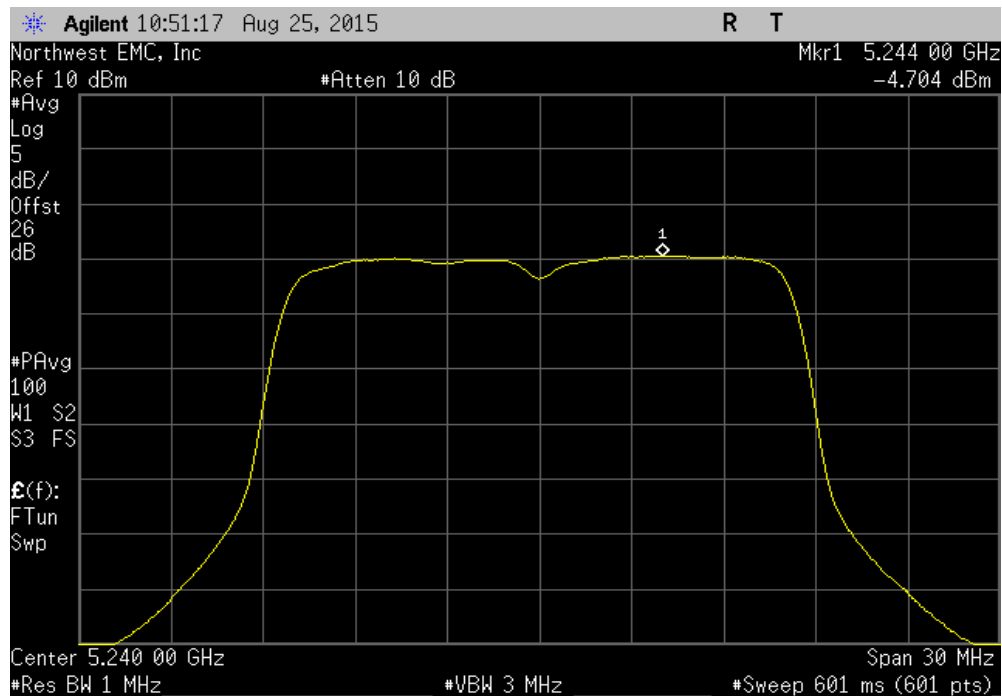


PEAK POWER SPECTRAL DENSITY

802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.139	0.5	-4.6	11	Pass		

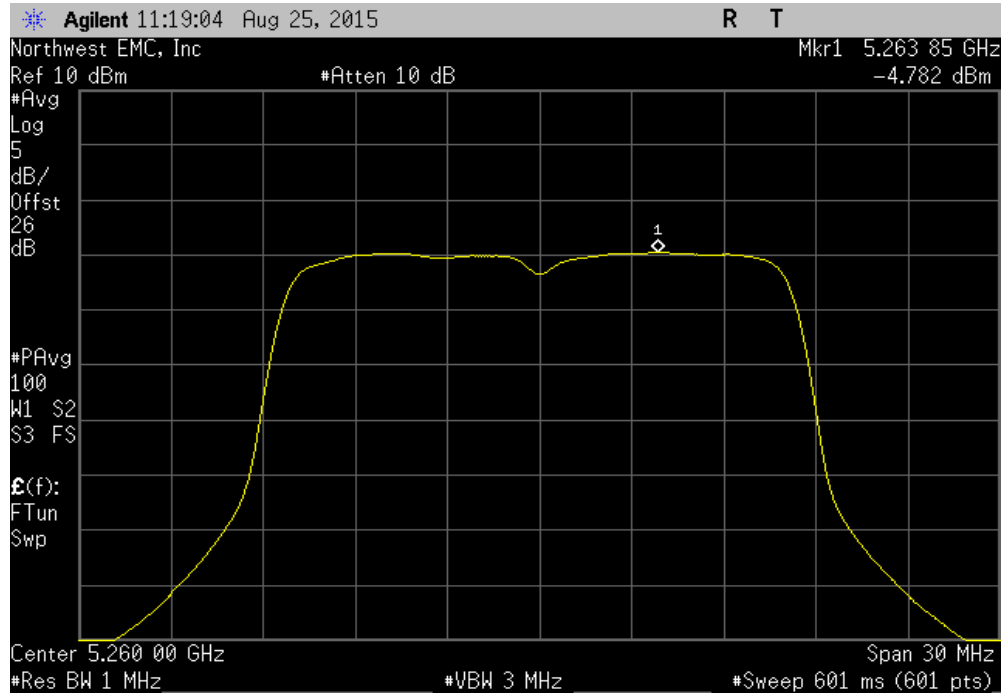


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-4.704	0.5	-4.2	11	Pass		

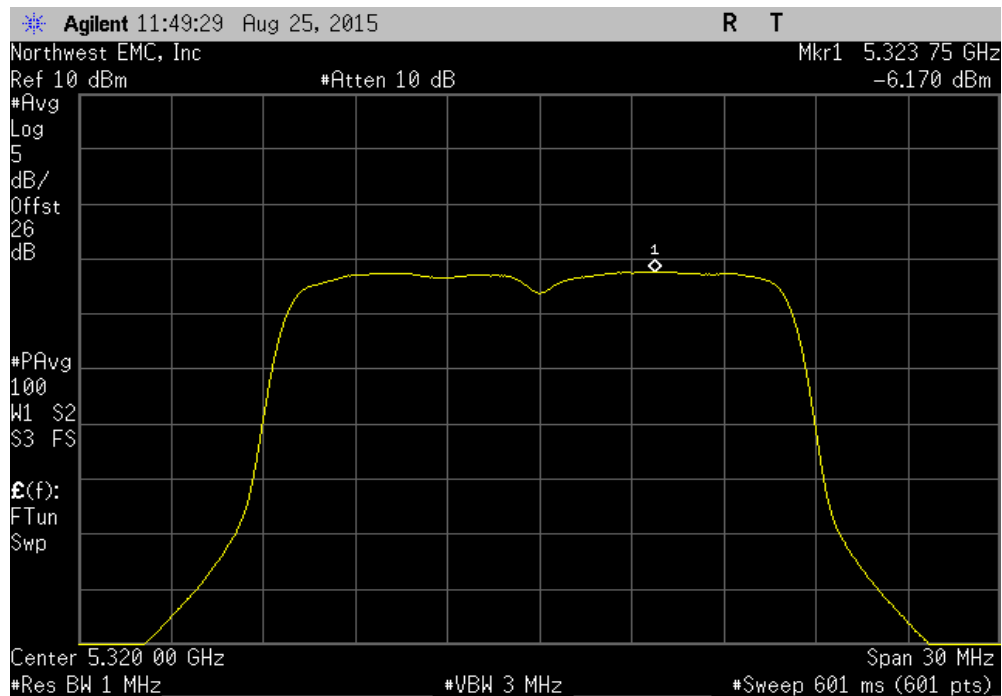


PEAK POWER SPECTRAL DENSITY

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-4.782	0.5	-4.3	11	Pass		

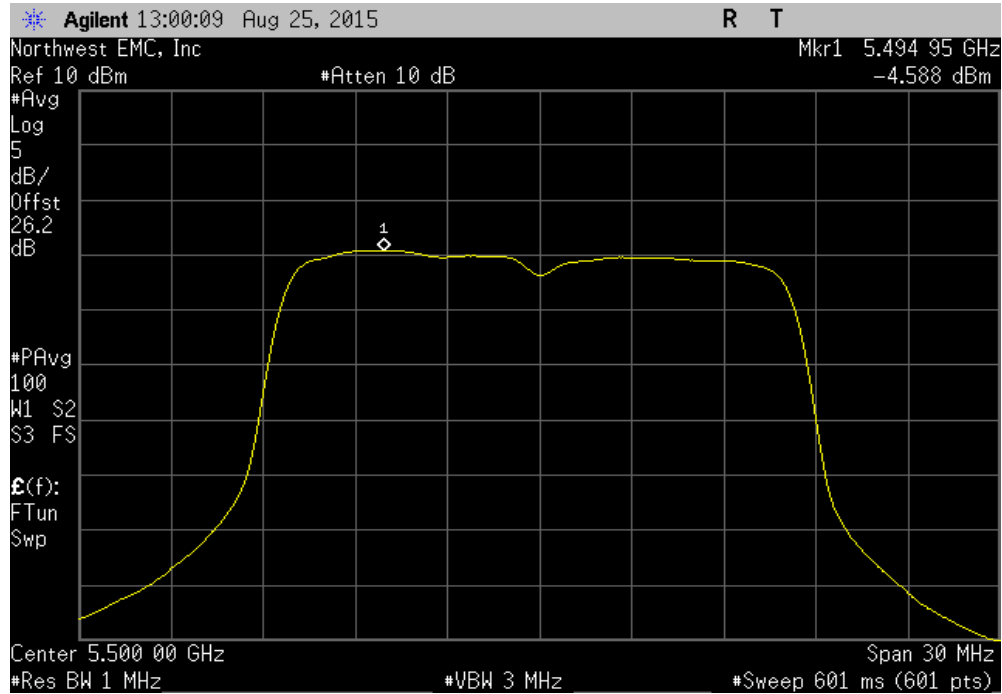


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.17	0.5	-5.6	11	Pass		

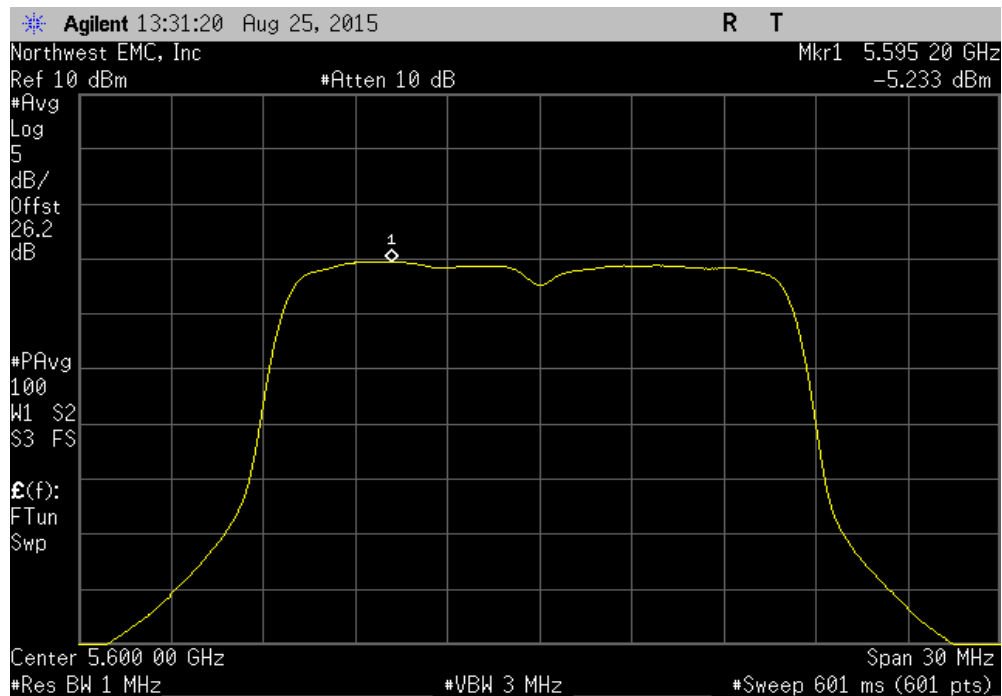


PEAK POWER SPECTRAL DENSITY

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-4.588	0.5	-4.1	11	Pass		

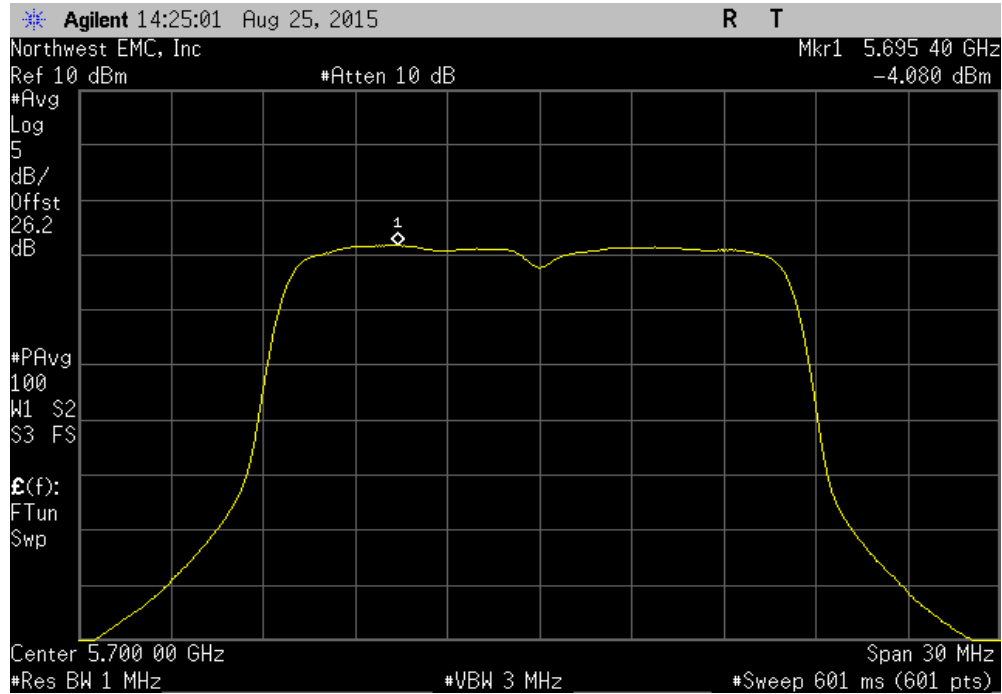


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.233	0.5	-4.7	11	Pass		

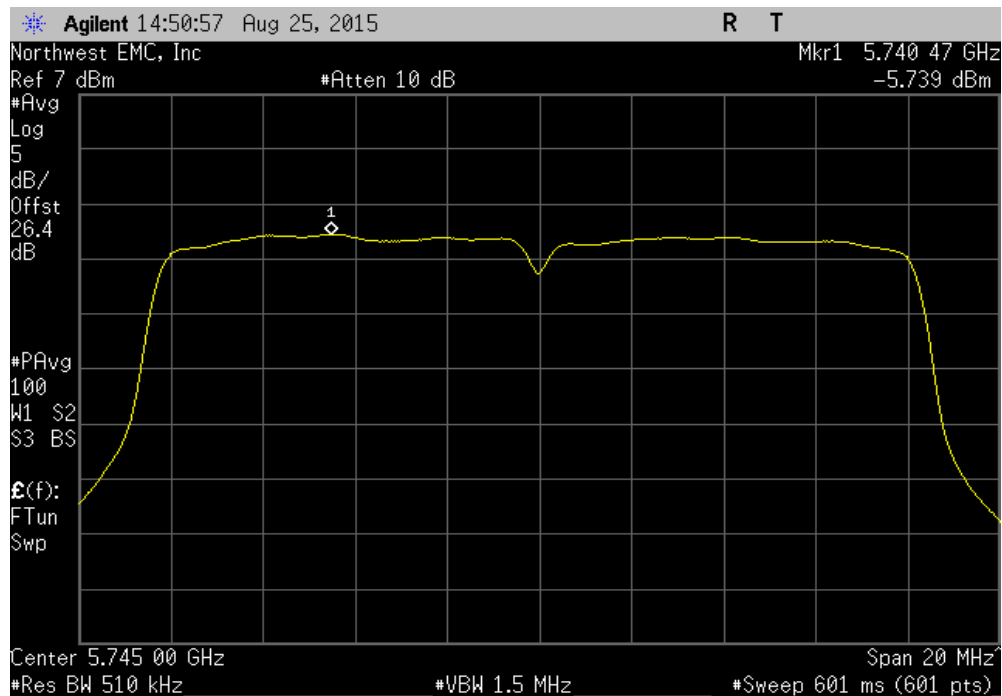


PEAK POWER SPECTRAL DENSITY

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-4.08	0.5	-3.6	11	Pass		

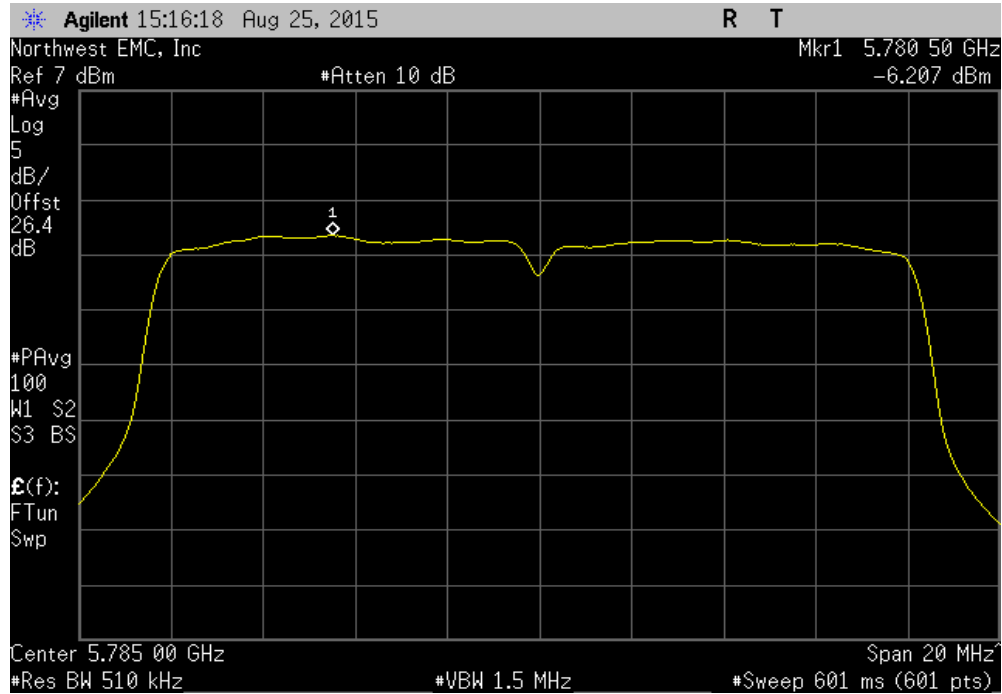


802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.739	0.5	-5.2	30	Pass		

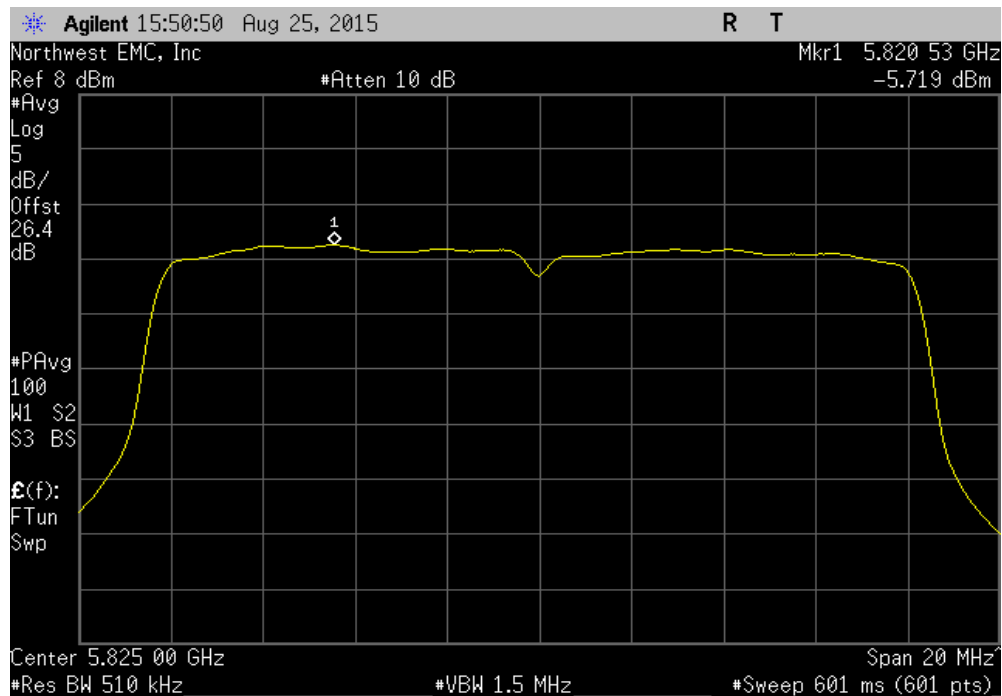


PEAK POWER SPECTRAL DENSITY

802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.209	0.5	-5.7	30	Pass		

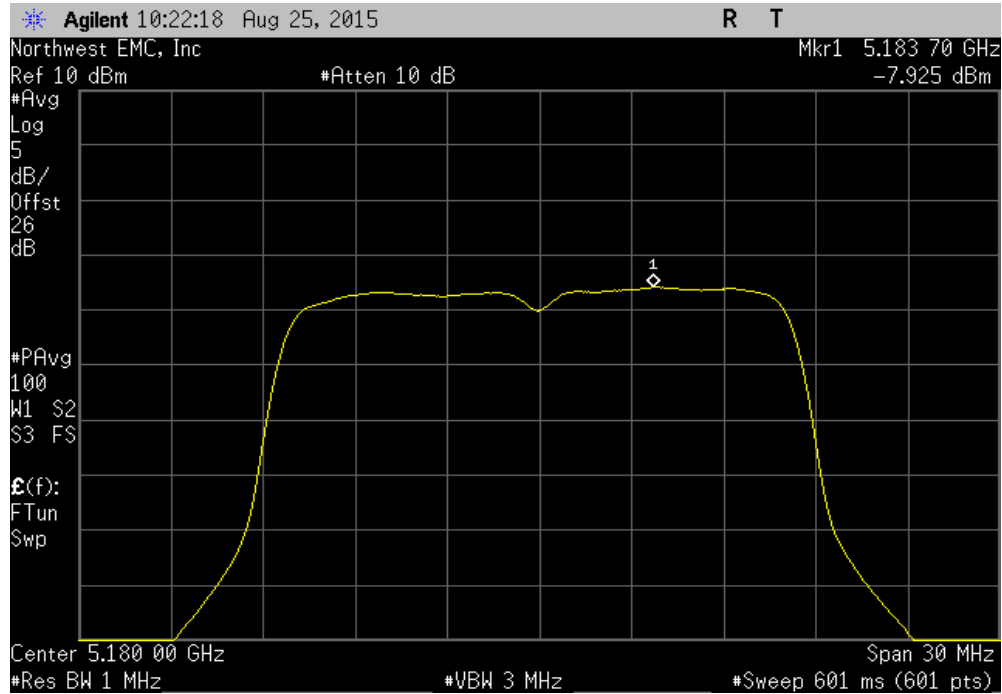


802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-5.719	0.5	-5.2	30	Pass		

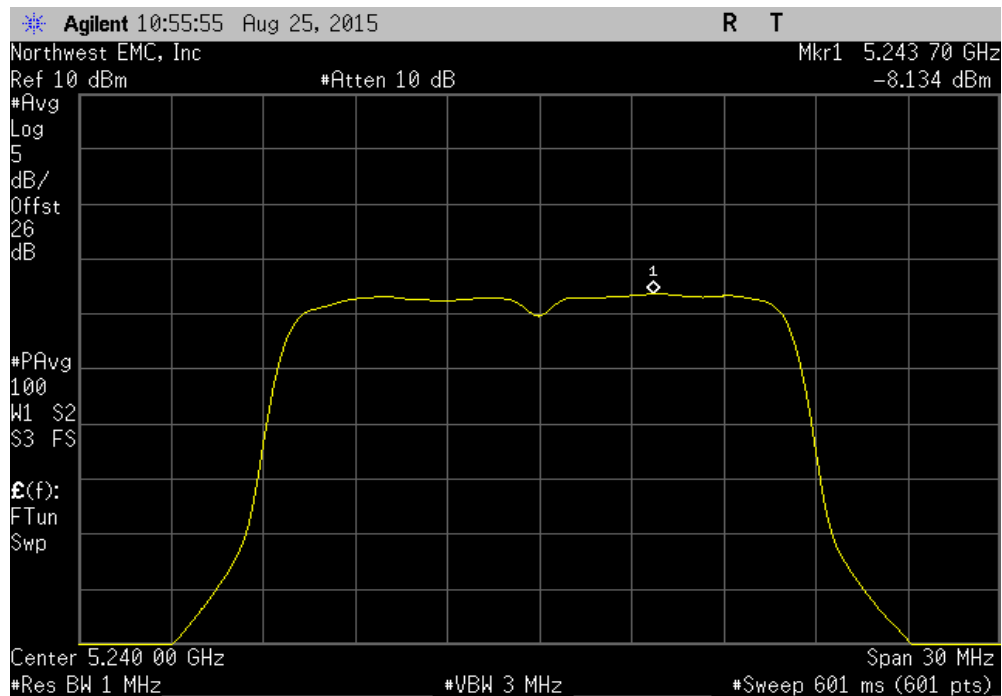


PEAK POWER SPECTRAL DENSITY

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-7.925	0.7	-7.2	11	Pass		

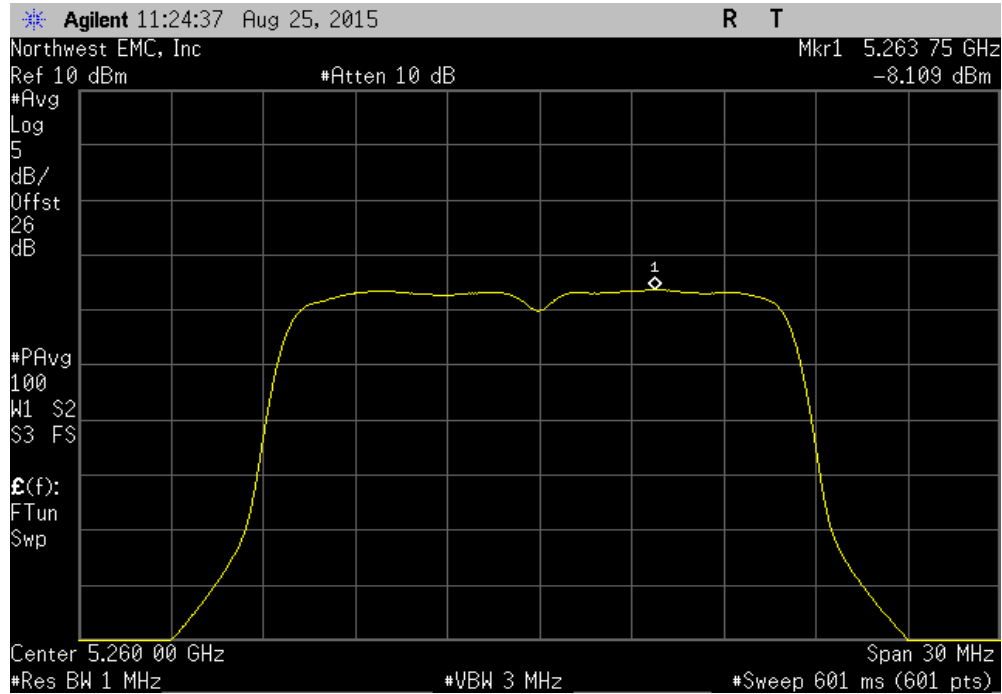


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-8.134	0.8	-7.4	11	Pass		

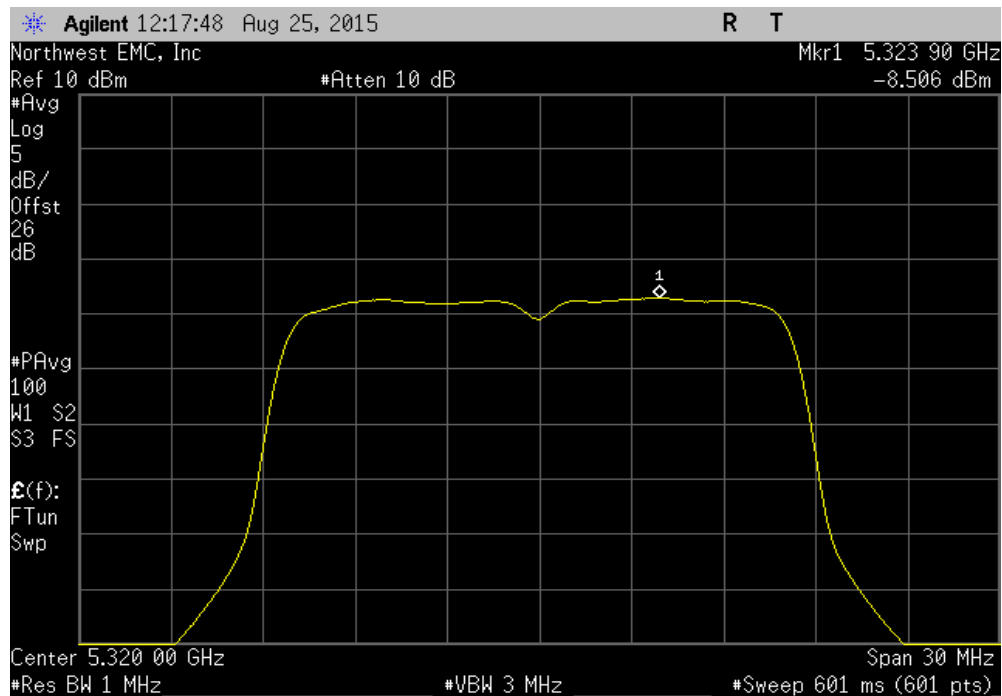


PEAK POWER SPECTRAL DENSITY

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-8.109	0.8	-7.3	11	Pass		

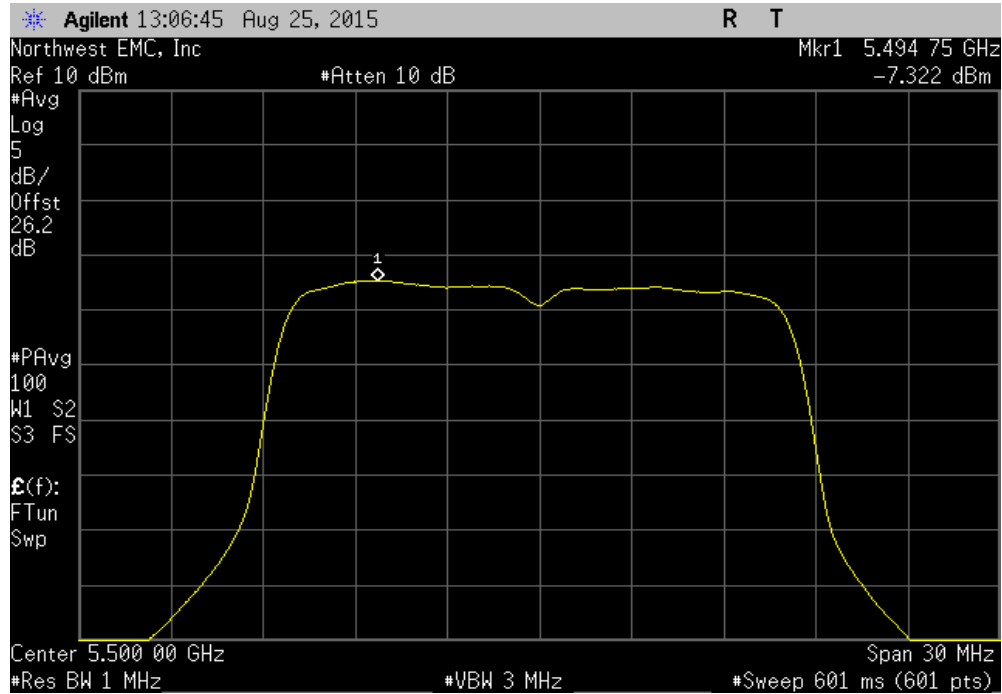


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-8.506	0.8	-7.7	11	Pass		

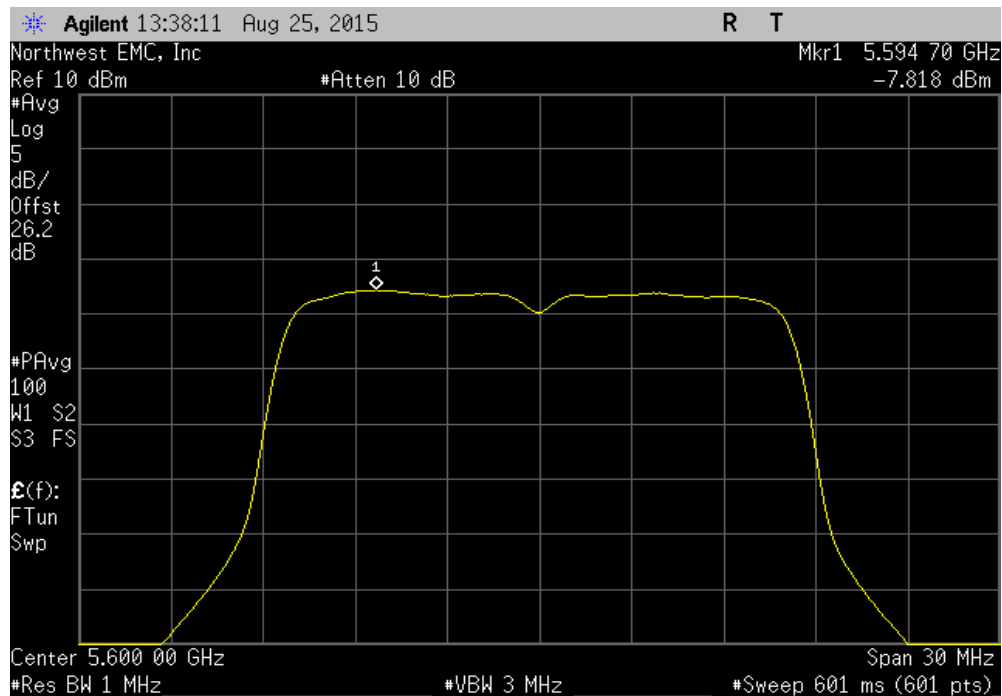


PEAK POWER SPECTRAL DENSITY

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-7.322	0.8	-6.6	11	Pass		

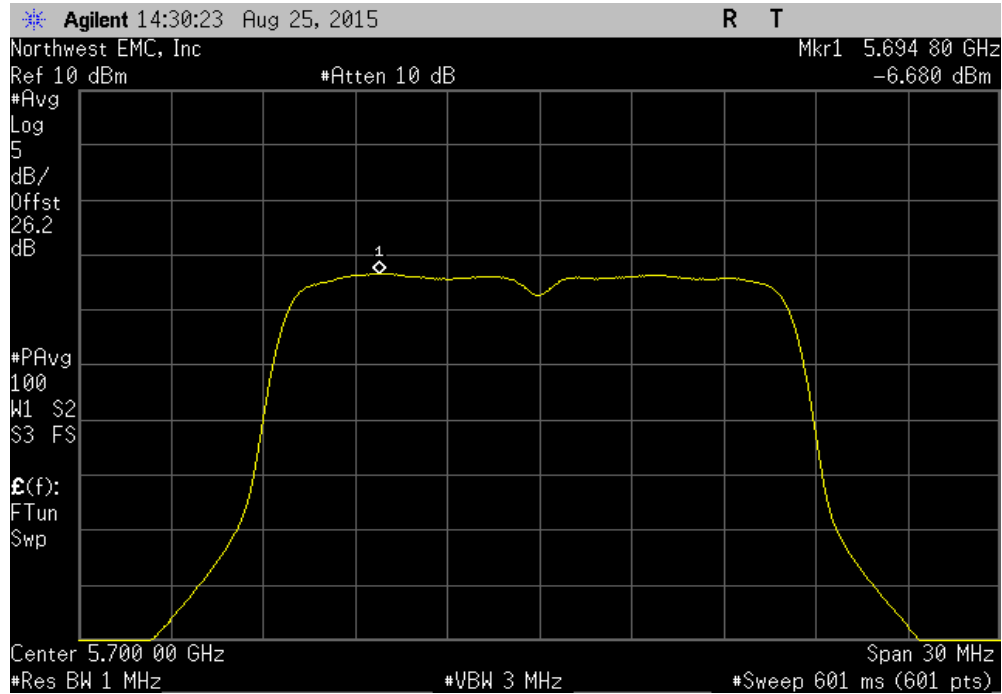


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-7.818	0.8	-7	11	Pass		

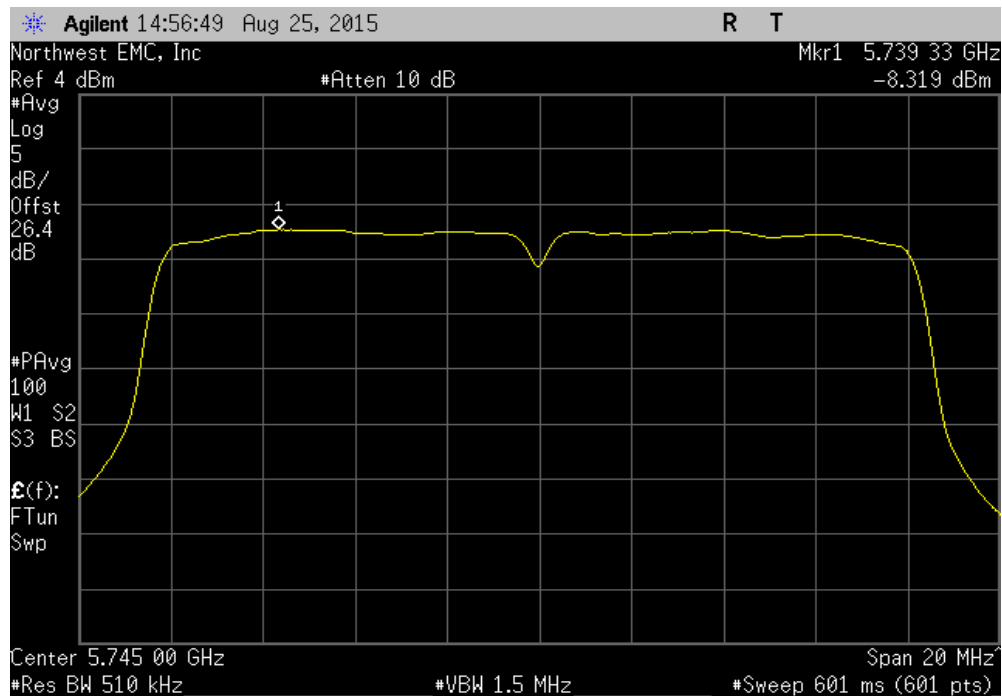


PEAK POWER SPECTRAL DENSITY

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.68	0.8	-5.9	11	Pass		

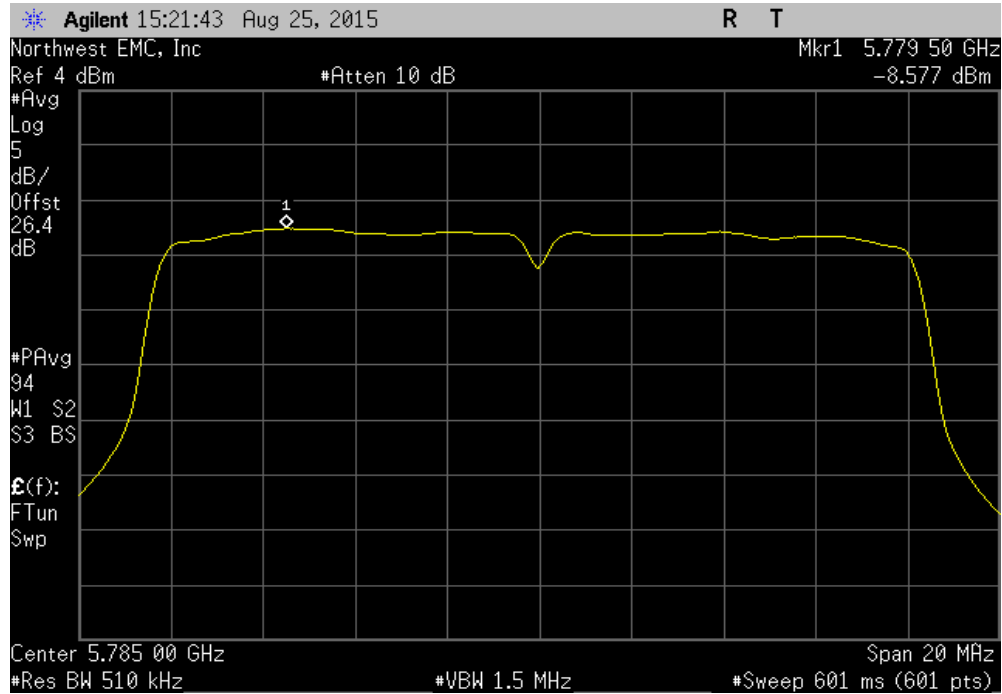


802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-8.319	0.8	-7.6	30	Pass		

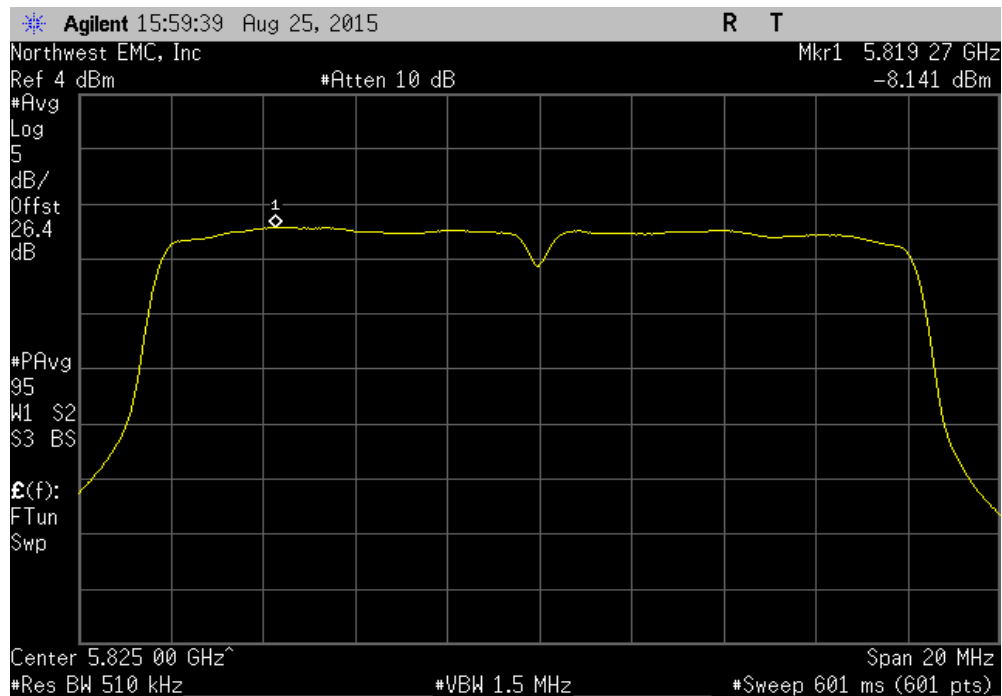


PEAK POWER SPECTRAL DENSITY

802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-8.577	0.8	-7.8	30	Pass		

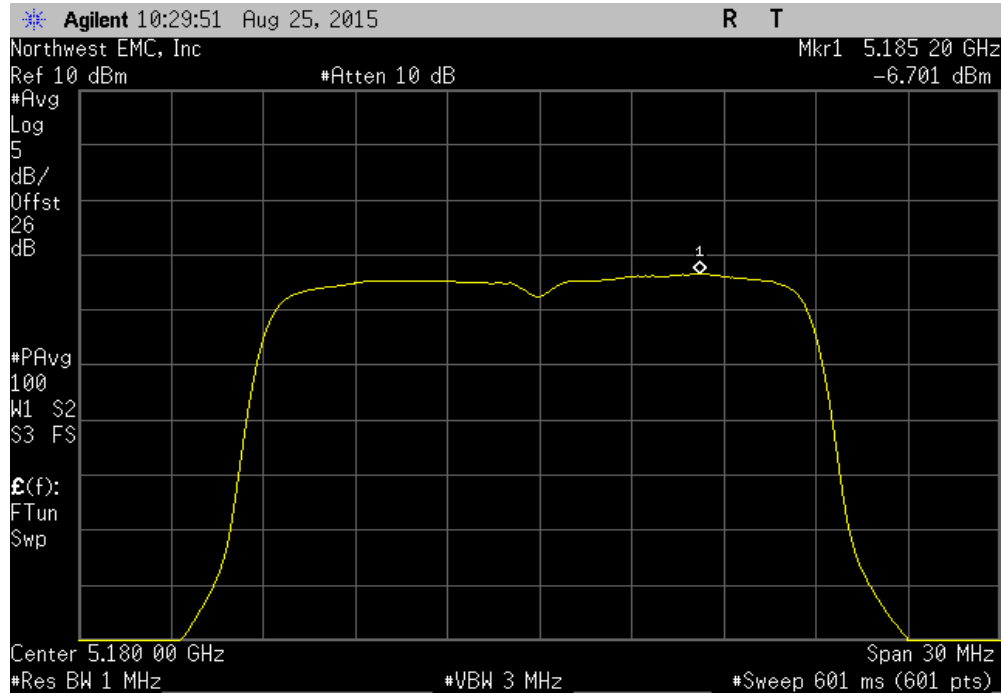


802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-8.14	0.8	-7.3	30	Pass		

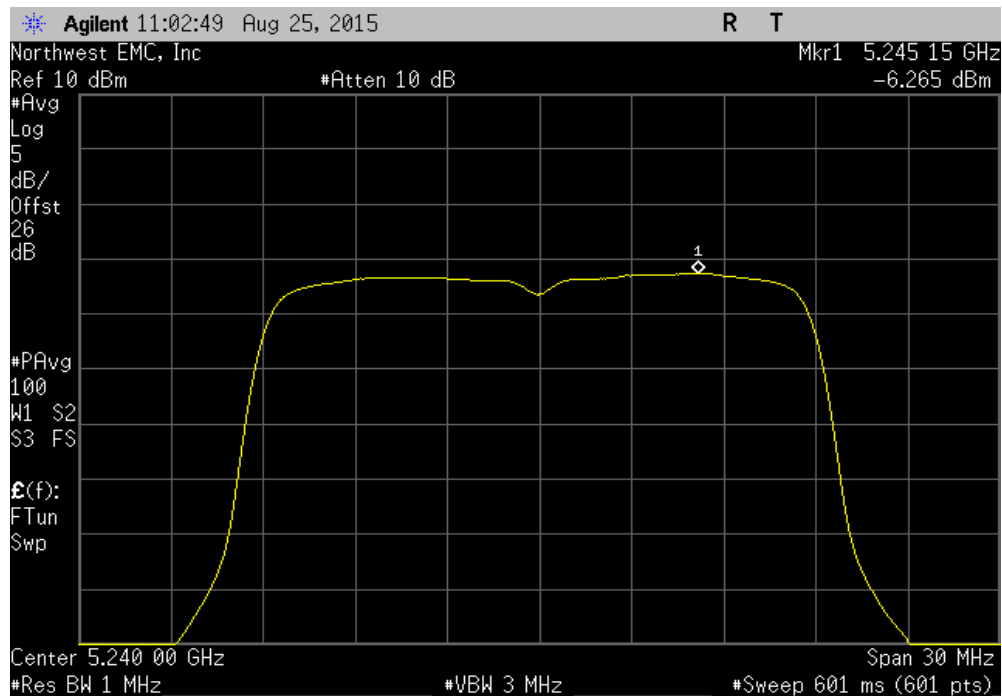


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.701	0.1	-6.6	11	Pass		

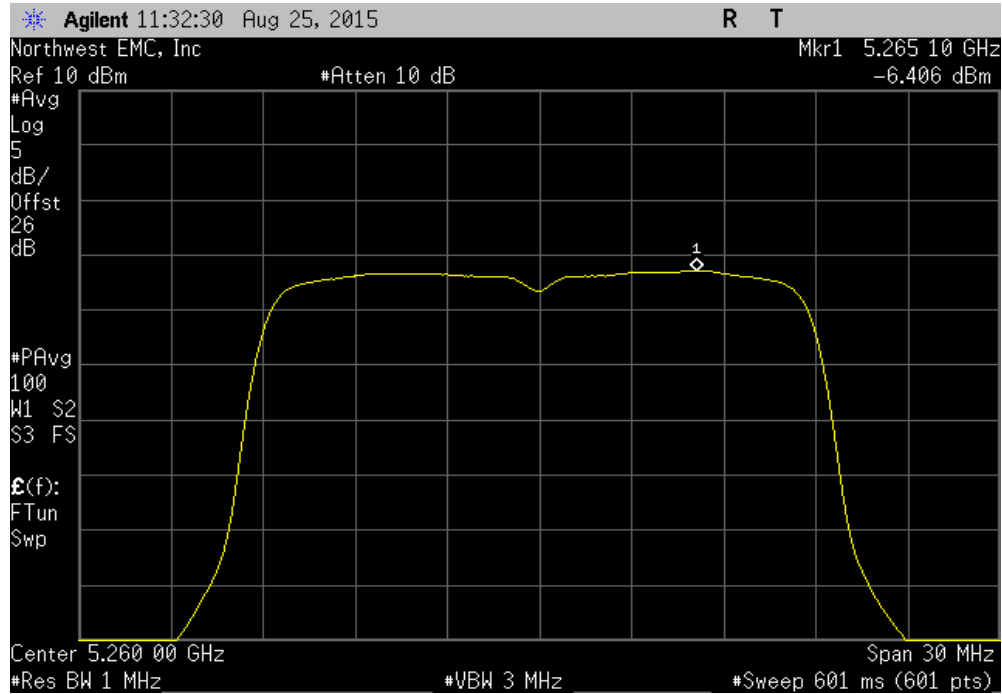


802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.265	0.1	-6.2	11	Pass		

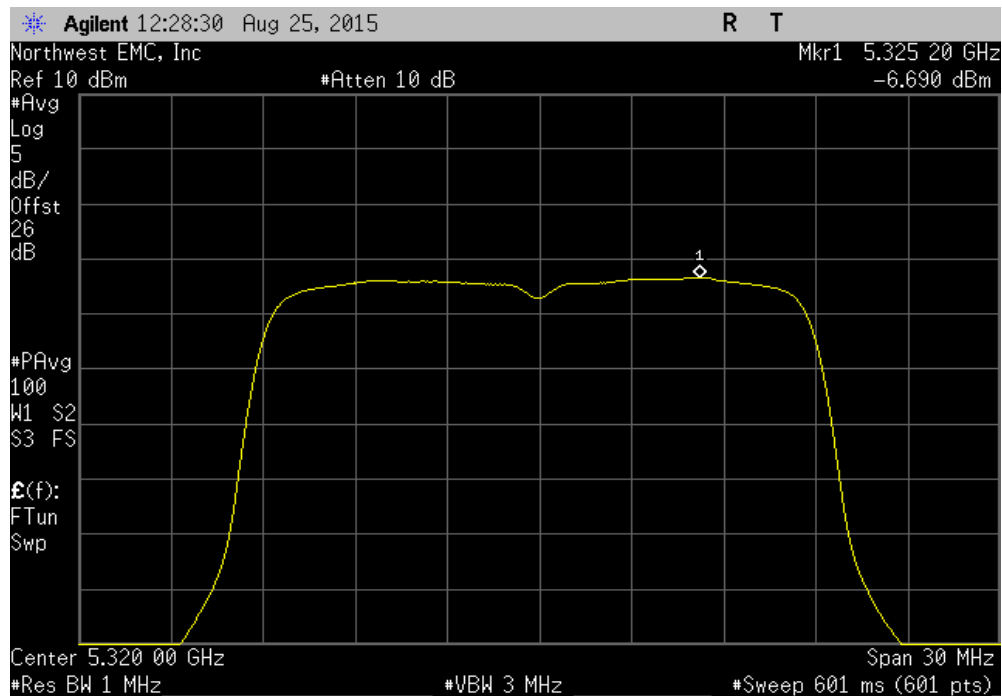


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.406	0.1	-6.3	11	Pass		

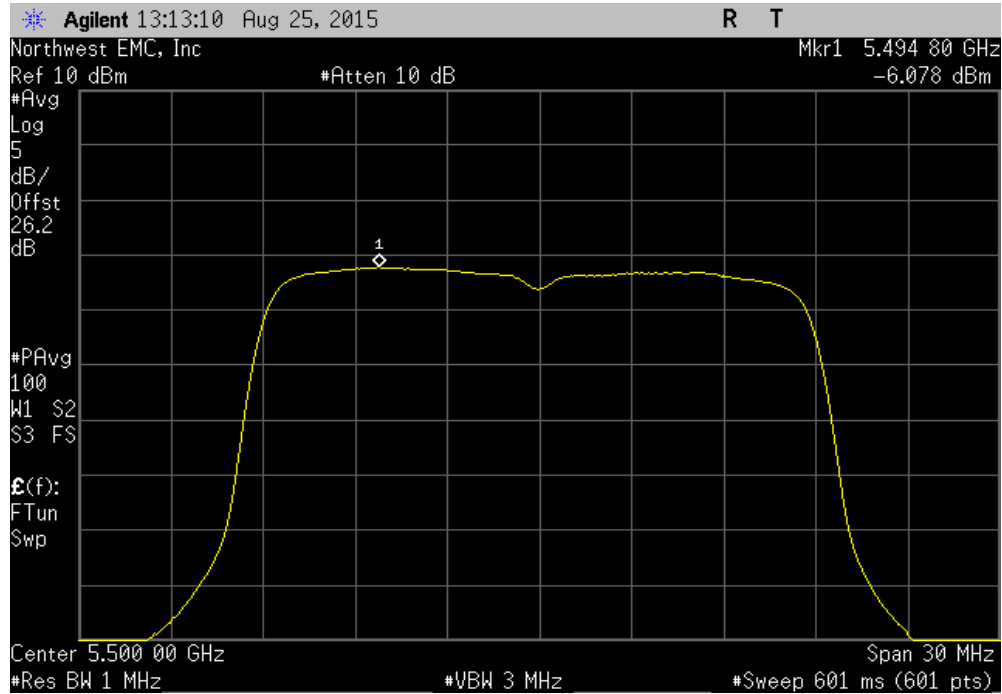


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.69	0.1	-6.6	11	Pass		

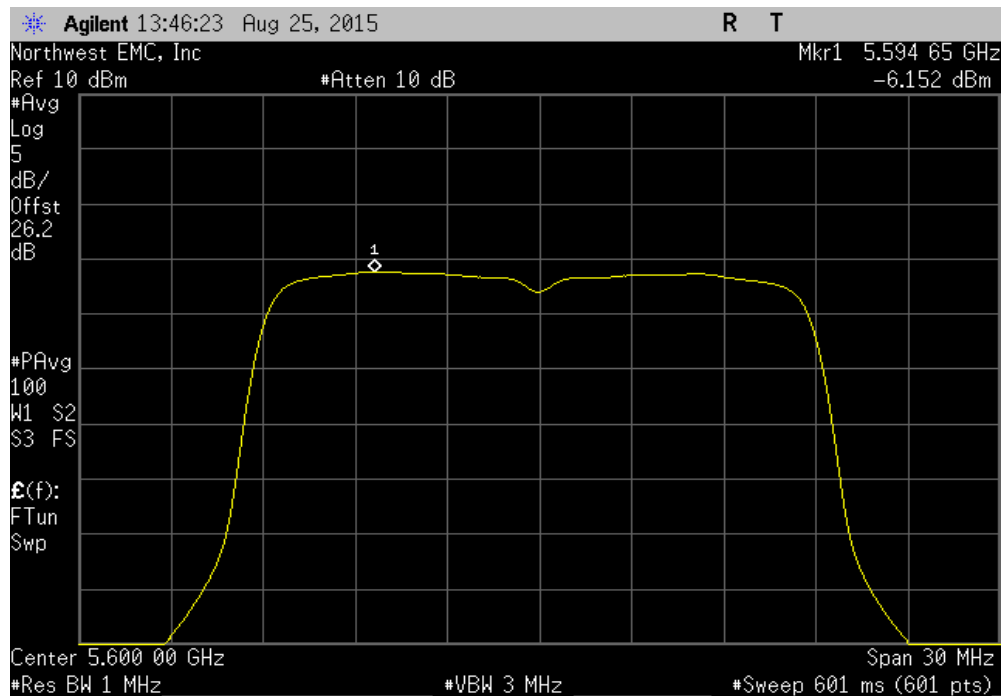


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.078	0.1	-6	11	Pass		

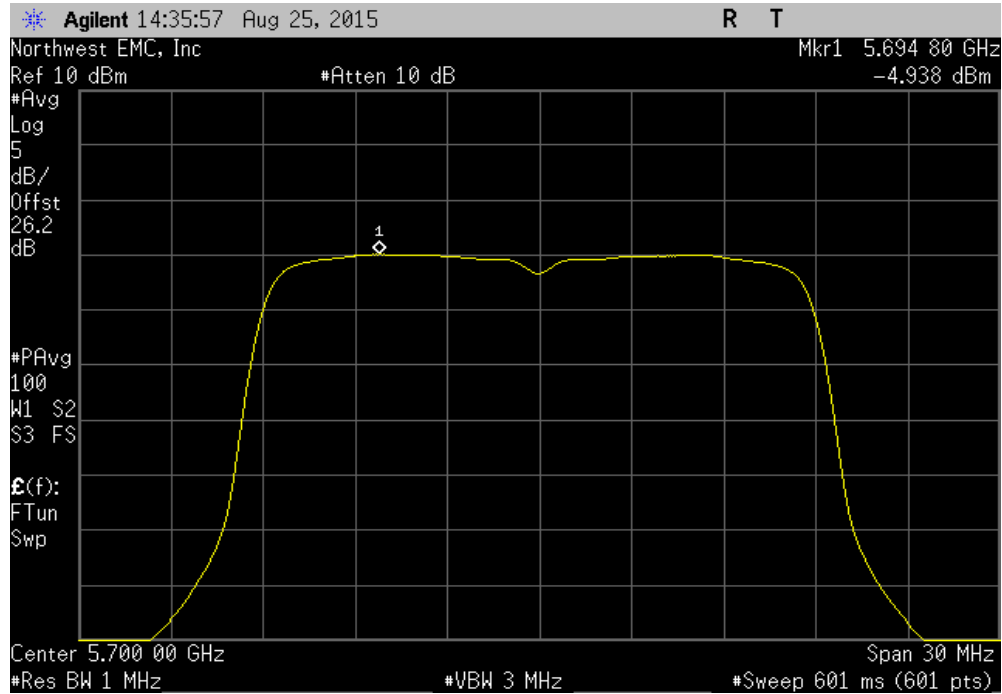


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.152	0.1	-6	11	Pass		

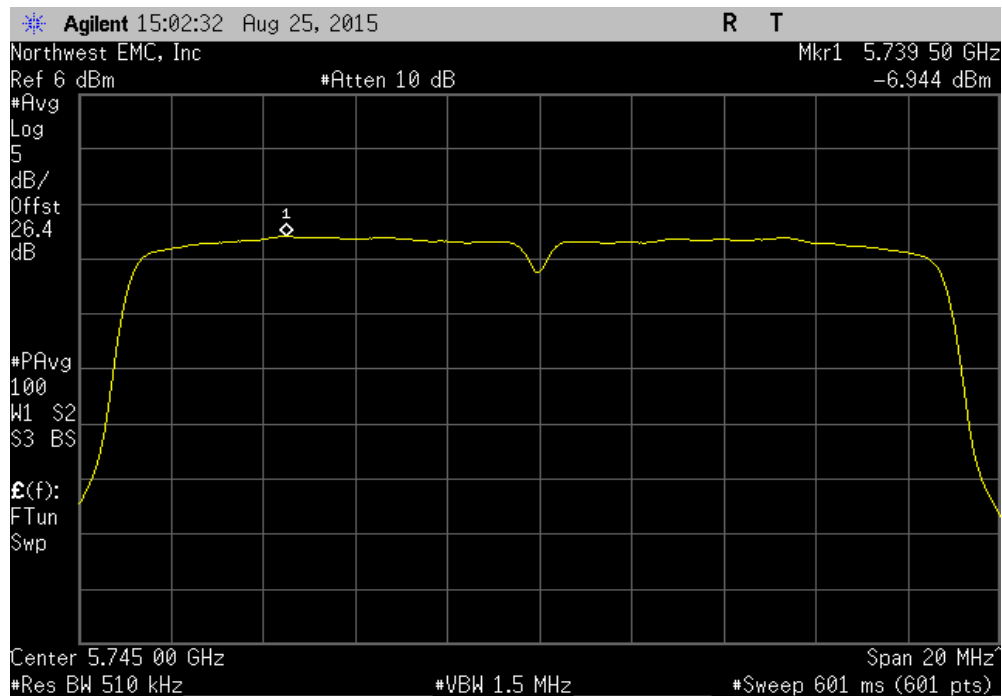


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-4.938	0.1	-4.8	11	Pass		

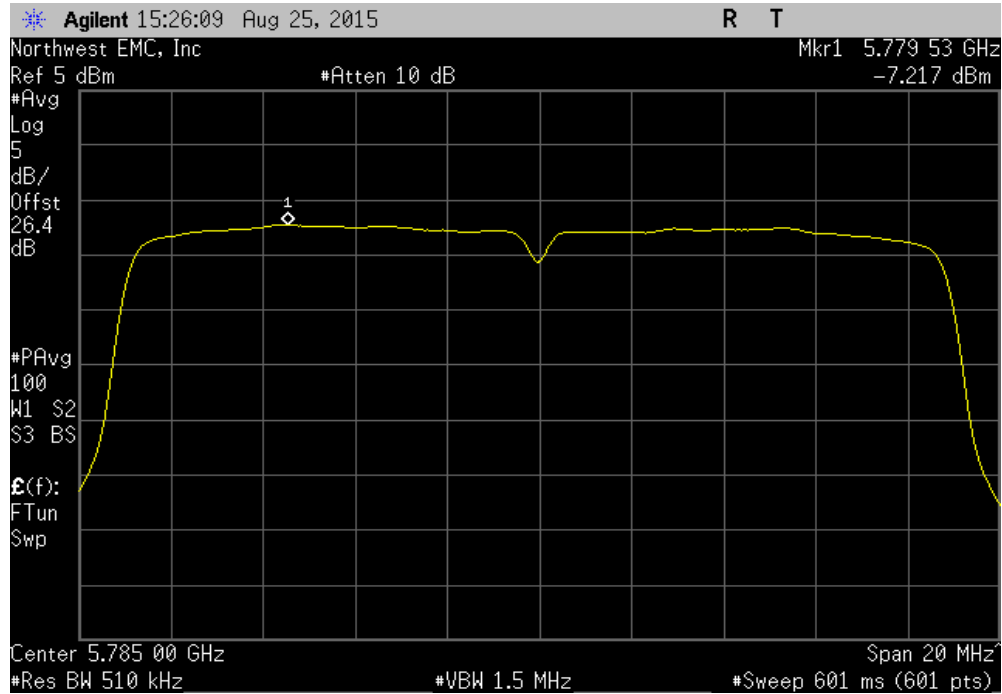


802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.944	0.1	-6.8	30	Pass		

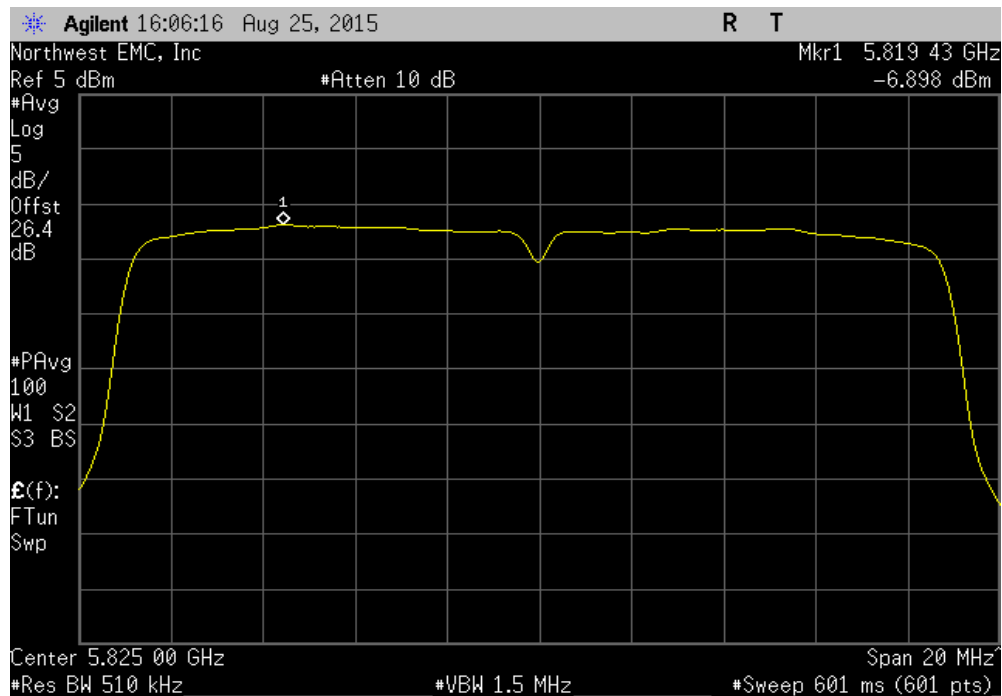


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-7.217	0.1	-7.1	30	Pass		

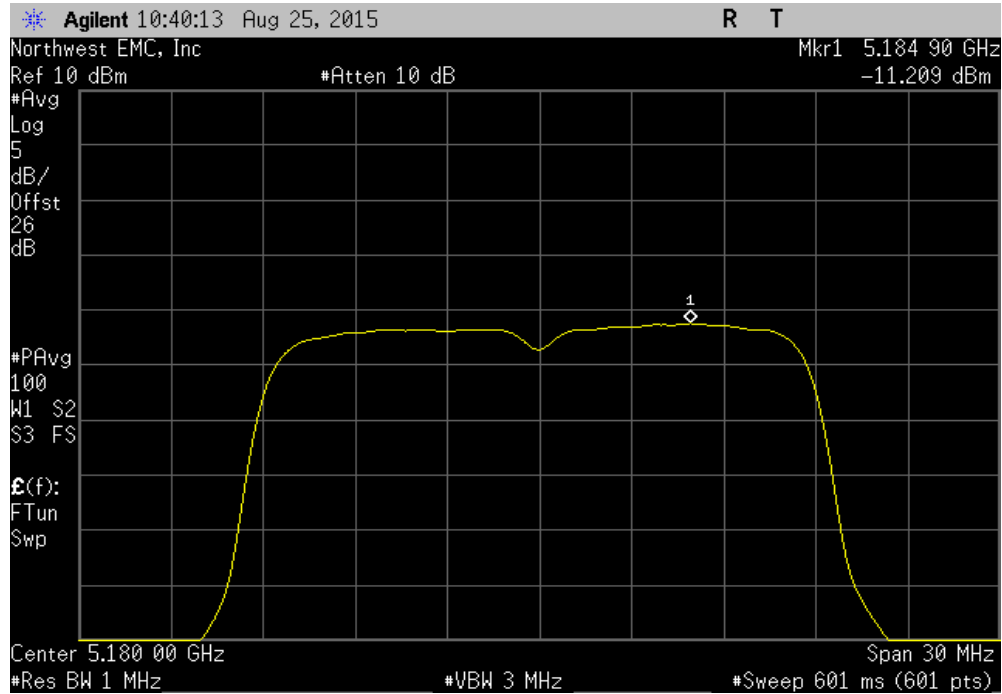


802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 165, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-6.898	0.1	-6.8	30	Pass		

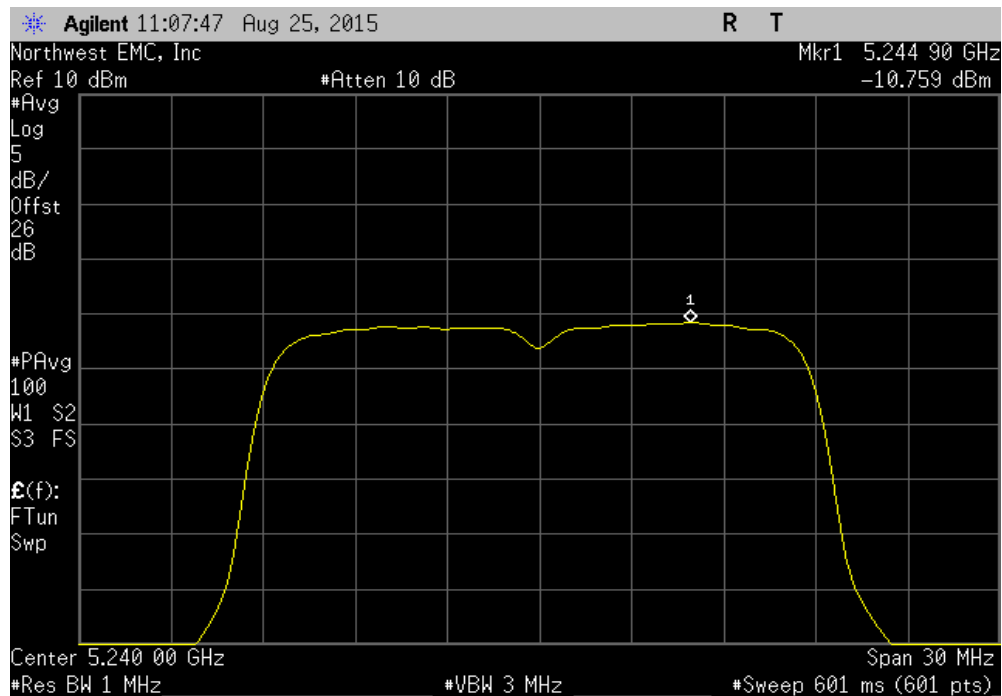


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-11.209	0.8	-10.4	11	Pass		

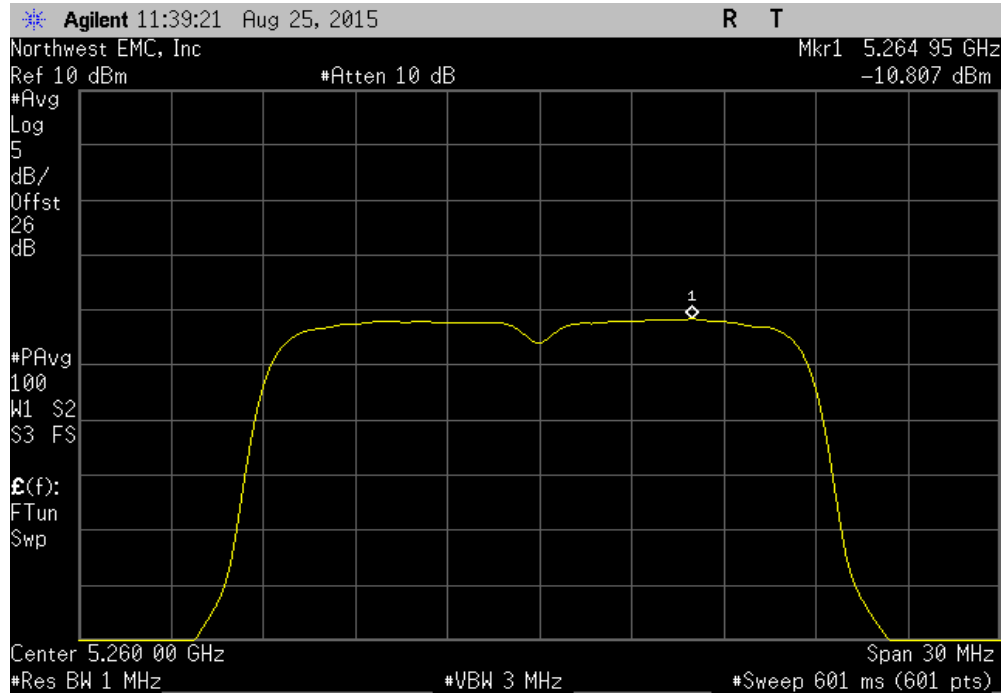


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-10.759	0.8	-9.9	11	Pass		

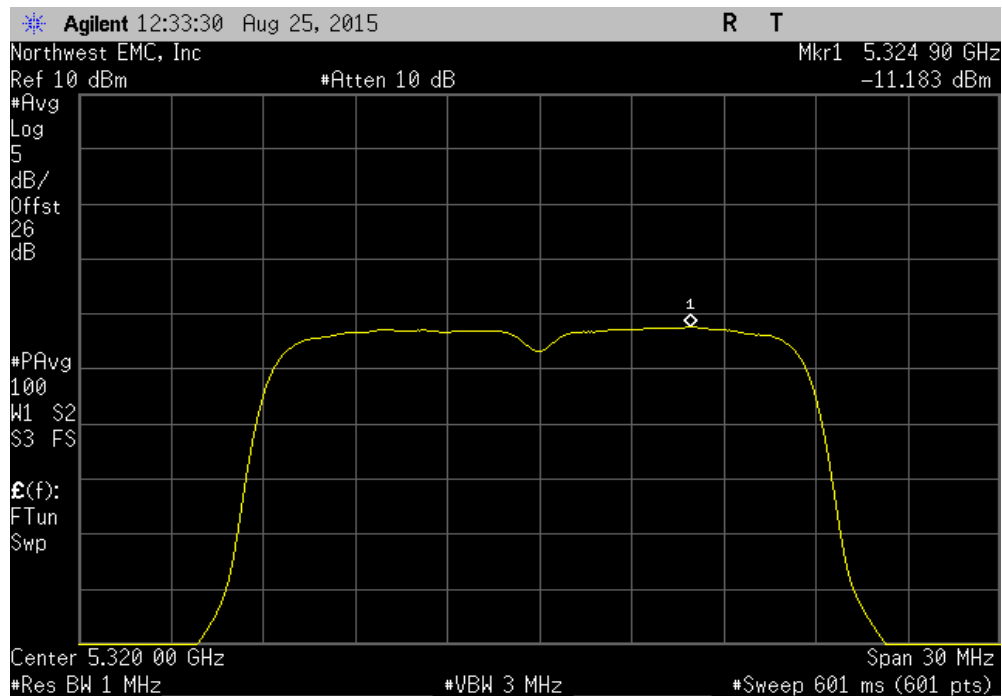


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-10.807	0.8	-10	11	Pass		

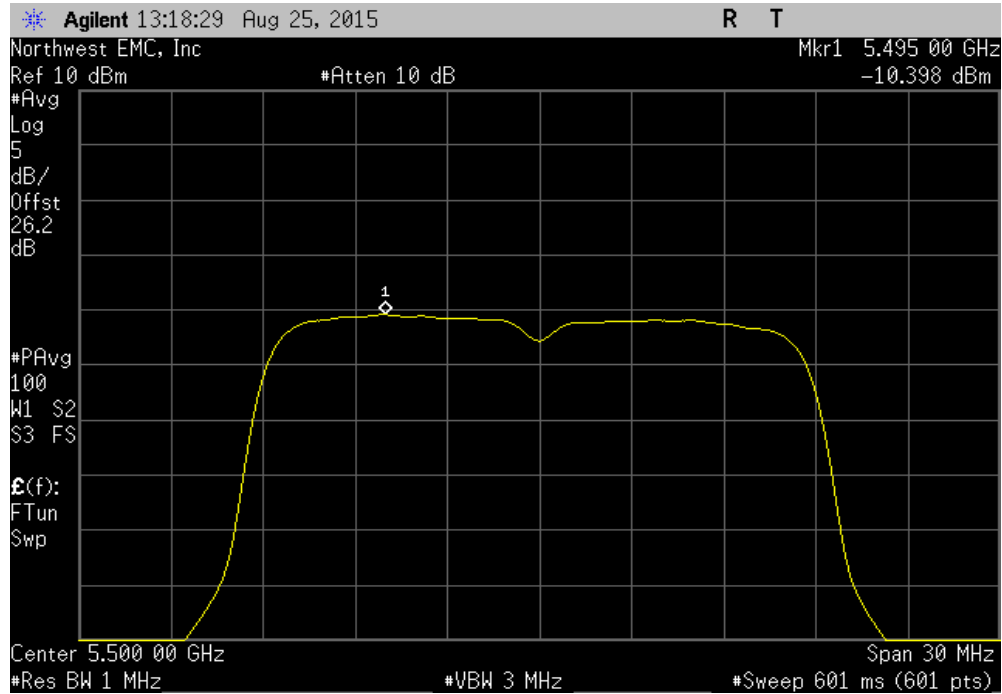


802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-11.183	0.8	-10.4	11	Pass		

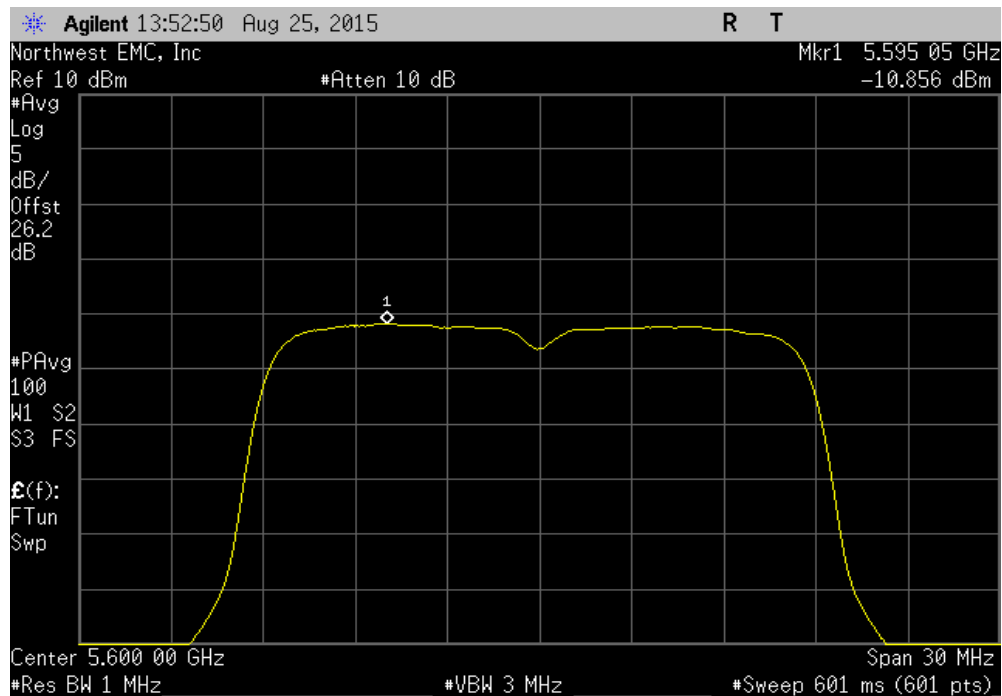


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-10.398	0.8	-9.6	11	Pass		

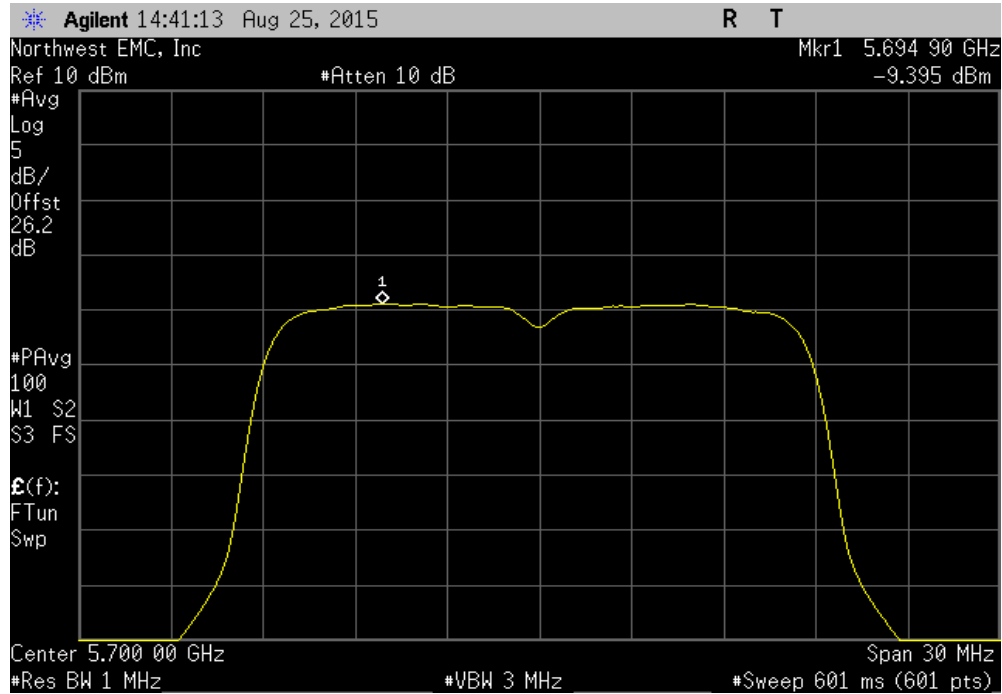


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-10.856	0.8	-10	11	Pass		

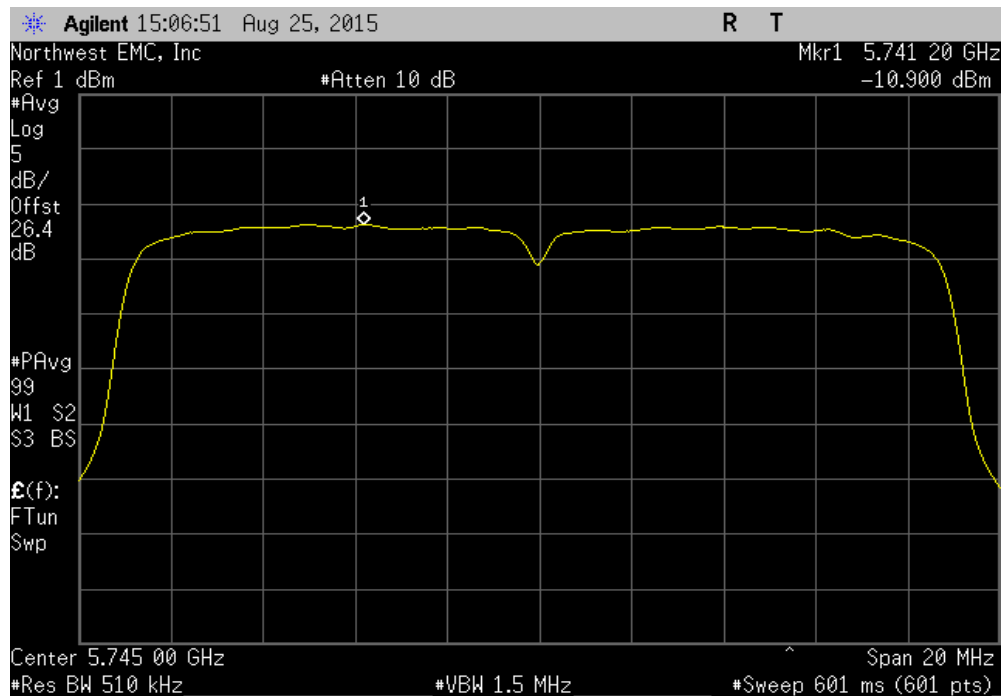


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-9.395	0.8	-8.6	11	Pass		

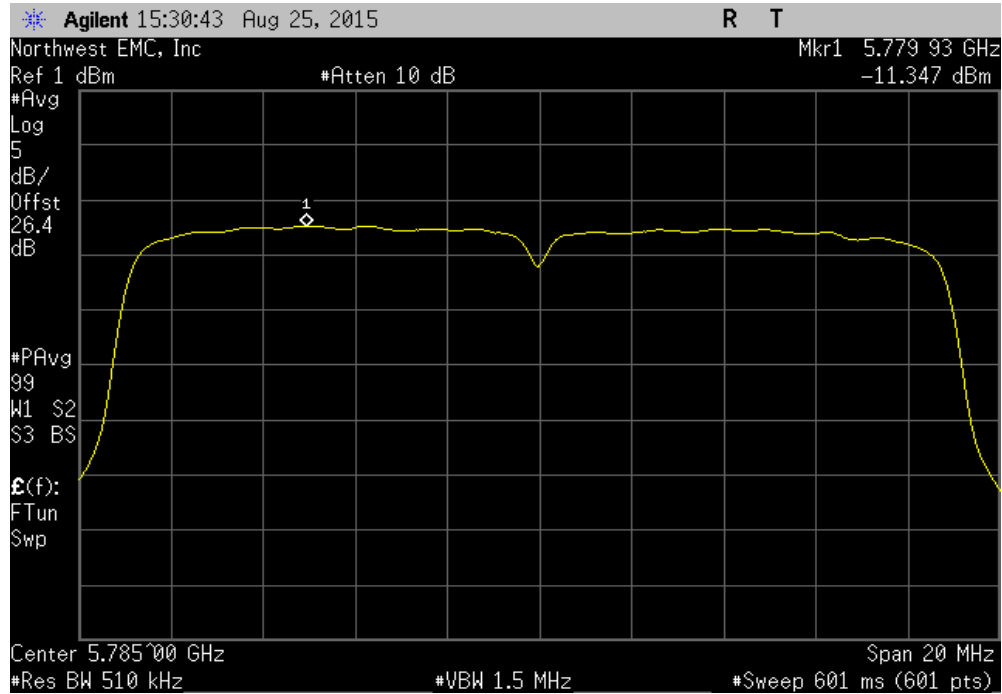


802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-10.898	0.8	-10.1	30	Pass		

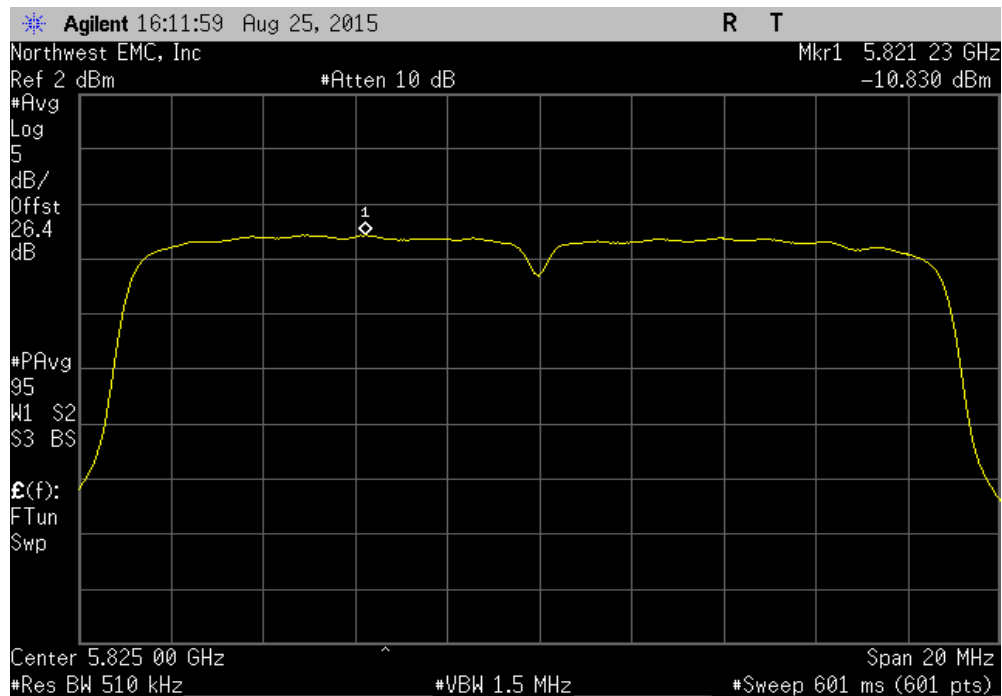


PEAK POWER SPECTRAL DENSITY

802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-11.349	0.8	-10.5	30	Pass		



802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 165, High Channel						
Power (dBm/MHz)	Duty Cycle Factor (dB)	Density (dBm/MHz)	Limit (dBm / Ref BW)	Results		
-10.83	0.8	-10	30	Pass		



DUTY CYCLE

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 (mos)
Generator - Signal	Agilent	E8257D	TGU	2/5/2015	36
Block - DC	Aeroflex	INMET 8535	AMO	4/8/2015	12
Attenuator	Fairview Microwave	SA18H-20	TKR	4/8/2015	12
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	0
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	8/28/2014	12

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 D01 General UNII Test Procedures.

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.

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

DUTY CYCLE



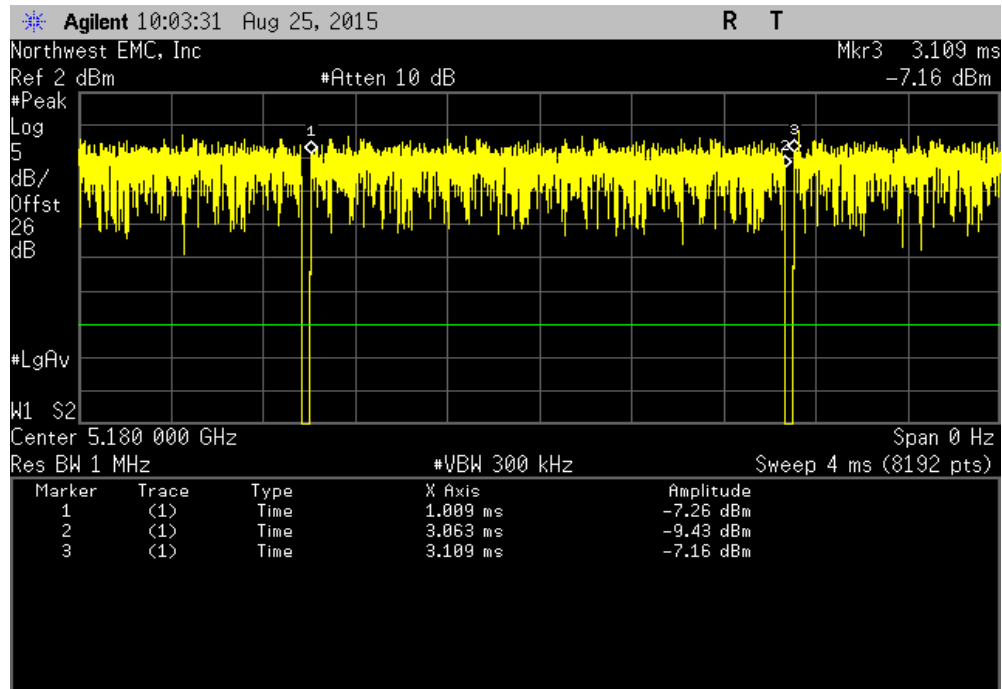
XMR 2015.01.14

EUT: iViz		Work Order: SONO0377				
Serial Number: Q402KJ		Date: 08/25/15				
Customer: FUJIFILM Sonosite Manufacturing, LLC		Temperature: 22°C				
Attendees: None		Humidity: 50%				
Project: None		Barometric Pres.: 1014				
Tested by: Marty Martin & Johnny Candelas		Power: Battery				
TEST SPECIFICATIONS		Job Site: OC13				
FCC 15.407:2015		Test Method				
		ANSI C63.10:2013				
COMMENTS						
TX Power settings used from client provided Power Table						
DC Block/20dB Attenuator + coax cable + patch cable = 26.0dB for 5.2 & 5.3GHz, 26.24dB for 5.5GHz, and 26.43dB for 5.8GHz ranges						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	2	Signature 				
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
802.11(a) 6 Mbps						
5150 - 5250 MHz Band						
Channel 36, Low Channel	2.053 ms	2.099 ms	1	97.8	N/A	N/A
Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 48, High Channel	2.053 ms	2.099 ms	1	97.8	N/A	N/A
Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A
5250 - 5350 MHz Band						
Channel 52, Low Channel	2.053 ms	2.099 ms	1	97.8	N/A	N/A
Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 64, High Channel	2.054 ms	2.099 ms	1	97.9	N/A	N/A
Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A
5470 - 5725 MHz Band						
Channel 100, Low Channel	2.052 ms	2.098 ms	1	97.8	N/A	N/A
Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 120, Mid Channel	2.053 ms	2.1 ms	1	97.8	N/A	N/A
Channel 120, Mid Channel	N/A	N/A	6	N/A	N/A	N/A
Channel 140, High Channel	2.053 ms	2.099 ms	1	97.8	N/A	N/A
Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A
5725 - 5850 MHz Band						
Channel 149, Low Channel	2.053 ms	2.099 ms	1	97.8	N/A	N/A
Channel 149, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 157, Mid Channel	2.051 ms	2.099 ms	1	97.7	N/A	N/A
Channel 157, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 165, High Channel	2.053 ms	2.099 ms	1	97.8	N/A	N/A
Channel 165, High Channel	N/A	N/A	5	N/A	N/A	N/A
802.11(a) 36 Mbps						
5150 - 5250 MHz Band						
Channel 36, Low Channel	353.582 us	399.2 us	1	88.6	N/A	N/A
Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 48, High Channel	354.502 us	399 us	1	88.8	N/A	N/A
Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A
5250 - 5350 MHz Band						
Channel 52, Low Channel	354.058 us	399.3 us	1	88.7	N/A	N/A
Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 64, High Channel	354.058 us	399.2 us	1	88.7	N/A	N/A
Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A
5470 - 5725 MHz Band						
Channel 100, Low Channel	354.602 us	399.056 us	1	88.9	N/A	N/A
Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 120, Mid Channel	353.037 us	398.956 us	1	88.5	N/A	N/A
Channel 120, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 140, High Channel	354.114 us	399.244 us	1	88.7	N/A	N/A
Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A
5725 - 5850 MHz Band						
Channel 149, Low Channel	353.814 us	399.244 us	1	88.6	N/A	N/A
Channel 149, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 157, Mid Channel	352.837 us	399.244 us	1	88.4	N/A	N/A
Channel 157, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 165, High Channel	353.382 us	399.056 us	1	88.6	N/A	N/A
Channel 165, High Channel	N/A	N/A	5	N/A	N/A	N/A
802.11(a) 54 Mbps						
5150 - 5250 MHz Band						
Channel 36, Low Channel	238.558 us	283.3 us	1	84.2	N/A	N/A
Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 48, High Channel	238.002 us	283.244 us	1	84	N/A	N/A
Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A
5250 - 5350 MHz Band						
Channel 52, Low Channel	233.431 us	282.956 us	1	82.5	N/A	N/A
Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 64, High Channel	237.814 us	283 us	1	84	N/A	N/A
Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A
5470 - 5725 MHz Band						
Channel 100, Low Channel	237.626 us	282.956 us	1	84	N/A	N/A
Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 120, Mid Channel	234.407 us	282.956 us	1	82.8	N/A	N/A
Channel 120, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 140, High Channel	237.77 us	282.956 us	1	84	N/A	N/A
Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A
5725 - 5850 MHz Band						
Channel 149, Low Channel	238.114 us	283 us	1	84.1	N/A	N/A
Channel 149, Low Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 157, Mid Channel	236.593 us	282.756 us	1	83.7	N/A	N/A
Channel 157, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
Channel 165, High Channel	235.372 us	282.956 us	1	83.2	N/A	N/A
Channel 165, High Channel	N/A	N/A	5	N/A	N/A	N/A

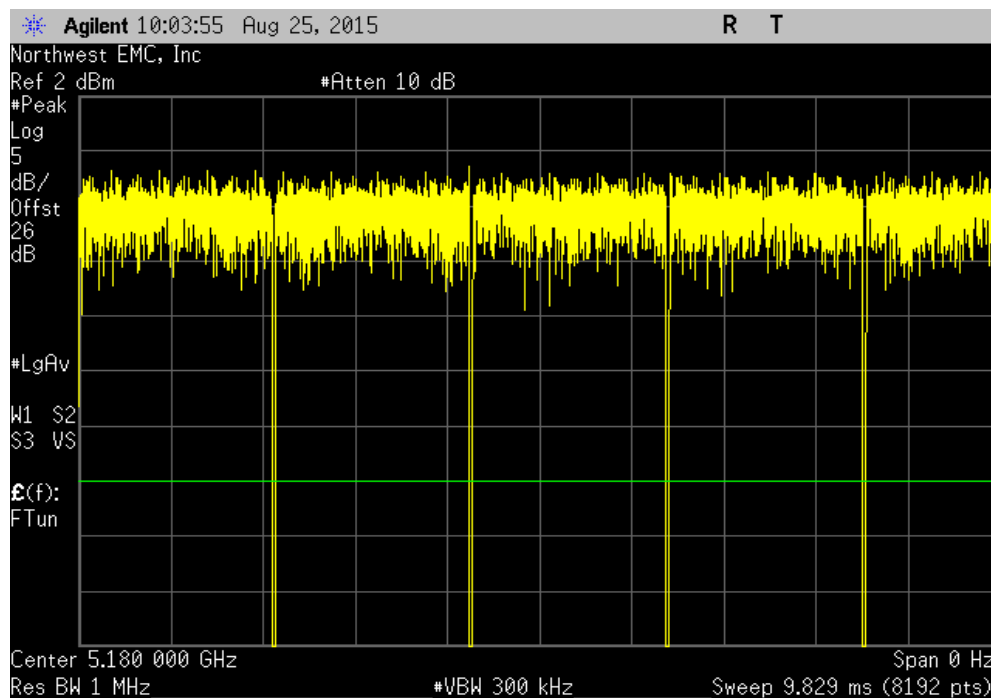
802.11(n) MCS0							
5150 - 5250 MHz Band							
Channel 36, Low Channel	1.909 ms	1.956 ms	1	97.6	N/A	N/A	
Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 48, High Channel	1.91 ms	1.956 ms	1	97.7	N/A	N/A	
Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A	
5250 - 5350 MHz Band							
Channel 52, Low Channel	1.91 ms	1.955 ms	1	97.7	N/A	N/A	
Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 64, High Channel	1.91 ms	1.956 ms	1	97.7	N/A	N/A	
Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A	
5470 - 5725 MHz Band							
Channel 100, Low Channel	1.91 ms	1.955 ms	1	97.7	N/A	N/A	
Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 120, Mid Channel	1.907 ms	1.955 ms	1	97.6	N/A	N/A	
Channel 120, Mid Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 140, High Channel	1.909 ms	1.955 ms	1	97.6	N/A	N/A	
Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A	
5725 - 5850 MHz Band							
Channel 149, Low Channel	1.909 ms	1.955 ms	1	97.6	N/A	N/A	
Channel 149, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 157, Mid Channel	1.909 ms	1.955 ms	1	97.6	N/A	N/A	
Channel 157, Mid Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 165, High Channel	1.91 ms	1.955 ms	1	97.7	N/A	N/A	
Channel 165, High Channel	N/A	N/A	5	N/A	N/A	N/A	
802.11(n) MCS7							
5150 - 5250 MHz Band							
Channel 36, Low Channel	217.382 us	262.956 us	1	82.7	N/A	N/A	
Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 48, High Channel	217.382 us	263.244 us	1	82.6	N/A	N/A	
Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A	
5250 - 5350 MHz Band							
Channel 52, Low Channel	217.87 us	263.2 us	1	82.8	N/A	N/A	
Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 64, High Channel	218.314 us	263.2 us	1	82.9	N/A	N/A	
Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A	
5470 - 5725 MHz Band							
Channel 100, Low Channel	218.258 us	262.9 us	1	83	N/A	N/A	
Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 120, Mid Channel	218.07 us	262.956 us	1	82.9	N/A	N/A	
Channel 120, Mid Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 140, High Channel	217.382 us	263.2 us	1	82.6	N/A	N/A	
Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A	
5725 - 5850 MHz Band							
Channel 149, Low Channel	217.326 us	263.144 us	1	82.6	N/A	N/A	
Channel 149, Low Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 157, Mid Channel	218.358 us	263.244 us	1	82.9	N/A	N/A	
Channel 157, Mid Channel	N/A	N/A	5	N/A	N/A	N/A	
Channel 165, High Channel	217.57 us	262.956 us	1	82.7	N/A	N/A	
Channel 165, High Channel	N/A	N/A	5	N/A	N/A	N/A	

DUTY CYCLE

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.053 ms	2.099 ms	1	97.8	N/A	N/A

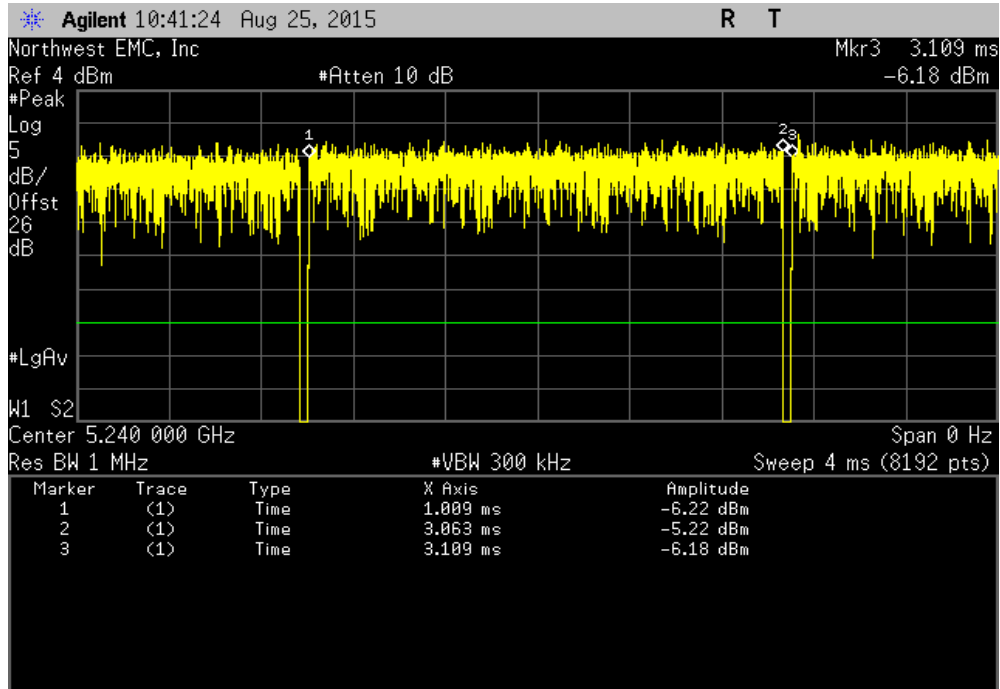


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

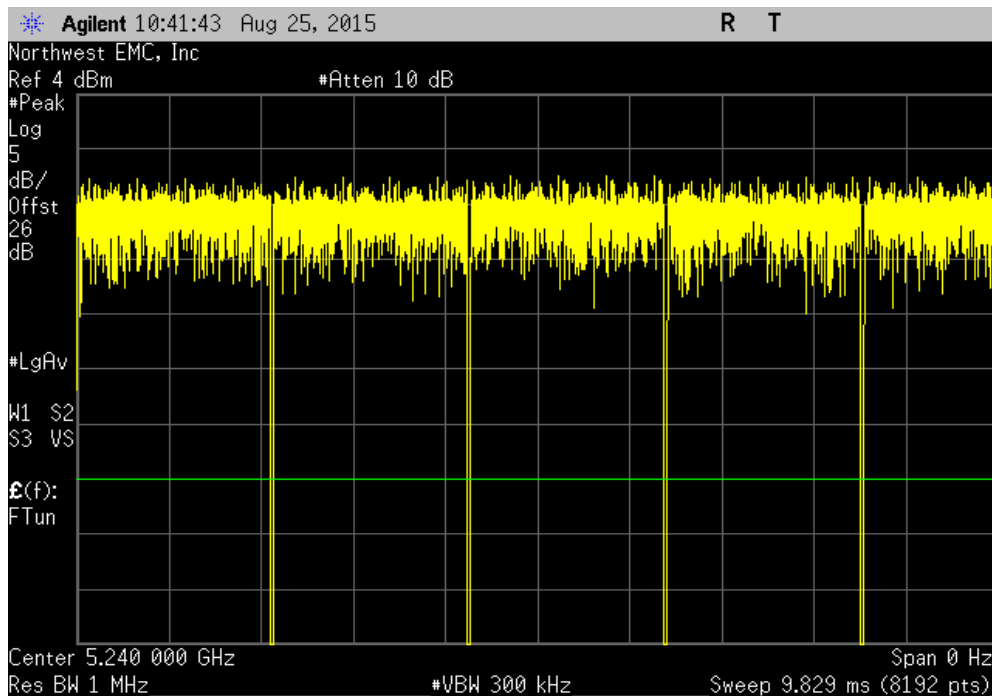


DUTY CYCLE

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.053 ms	2.099 ms	1	97.8	N/A	N/A

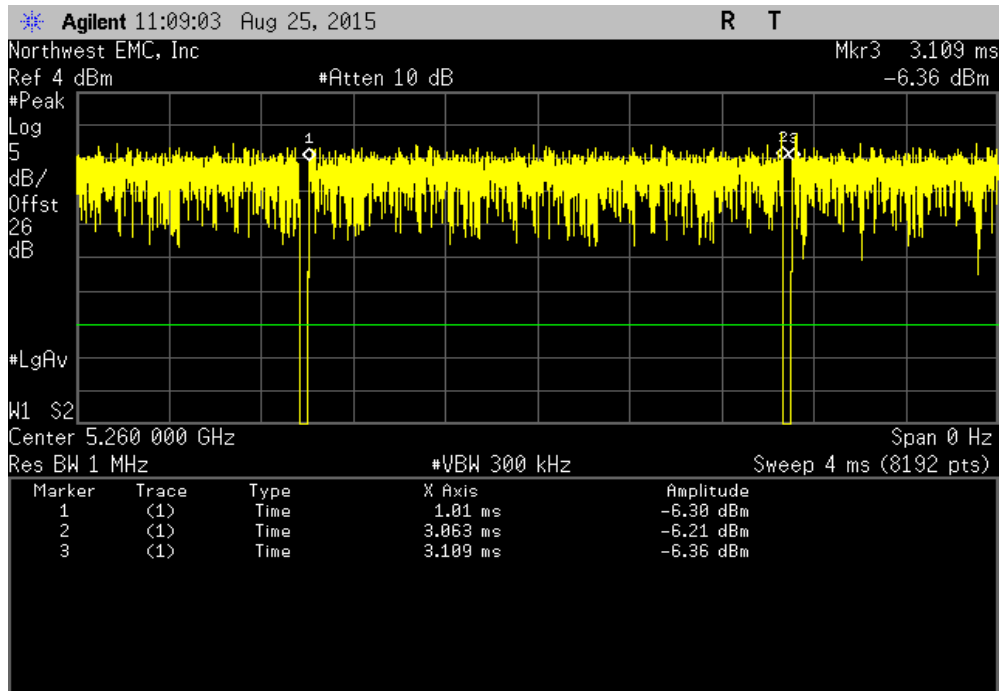


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

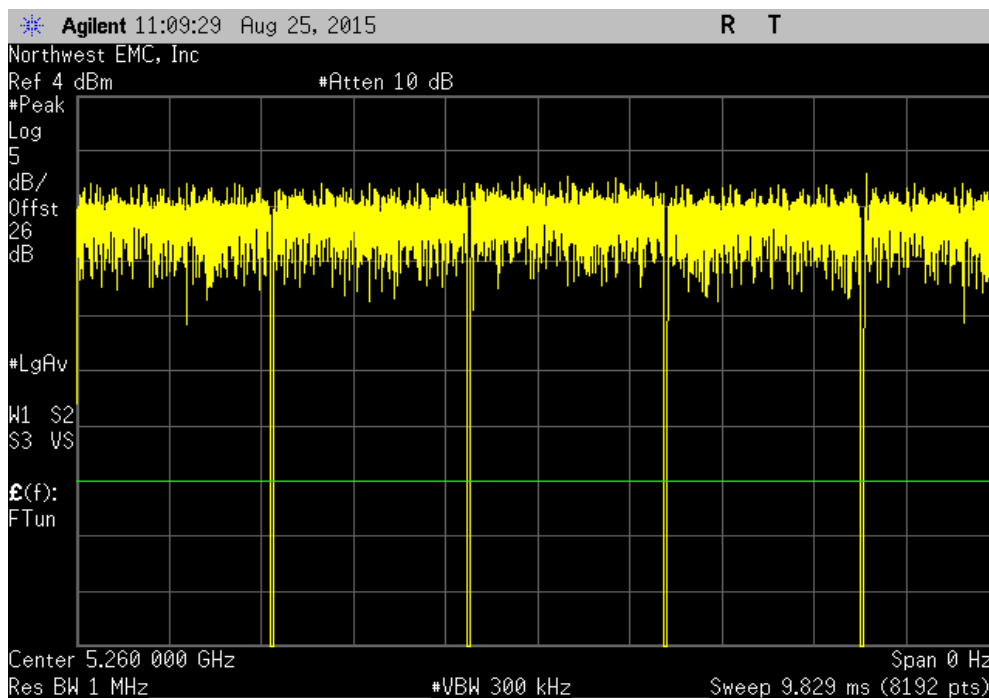


DUTY CYCLE

802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.053 ms	2.099 ms	1	97.8	N/A	N/A

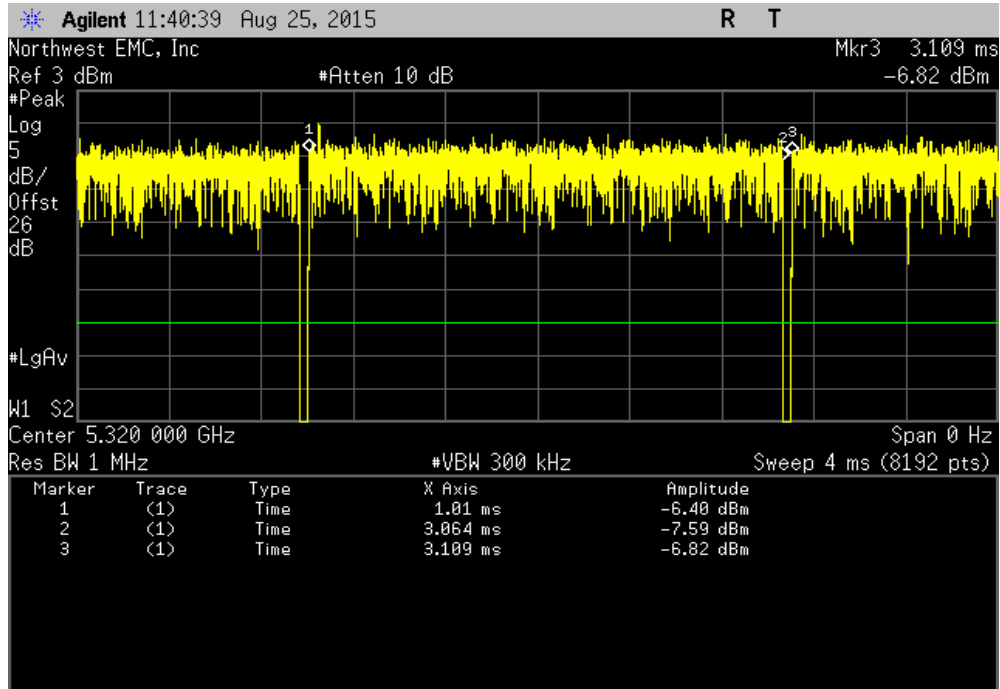


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

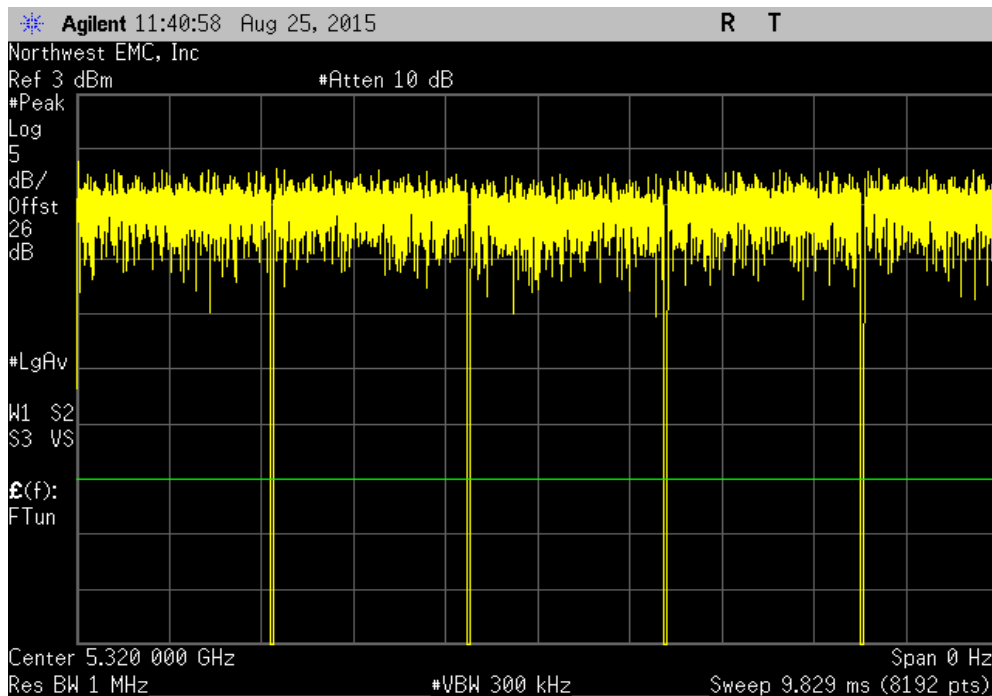


DUTY CYCLE

802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.054 ms	2.099 ms	1	97.9	N/A	N/A

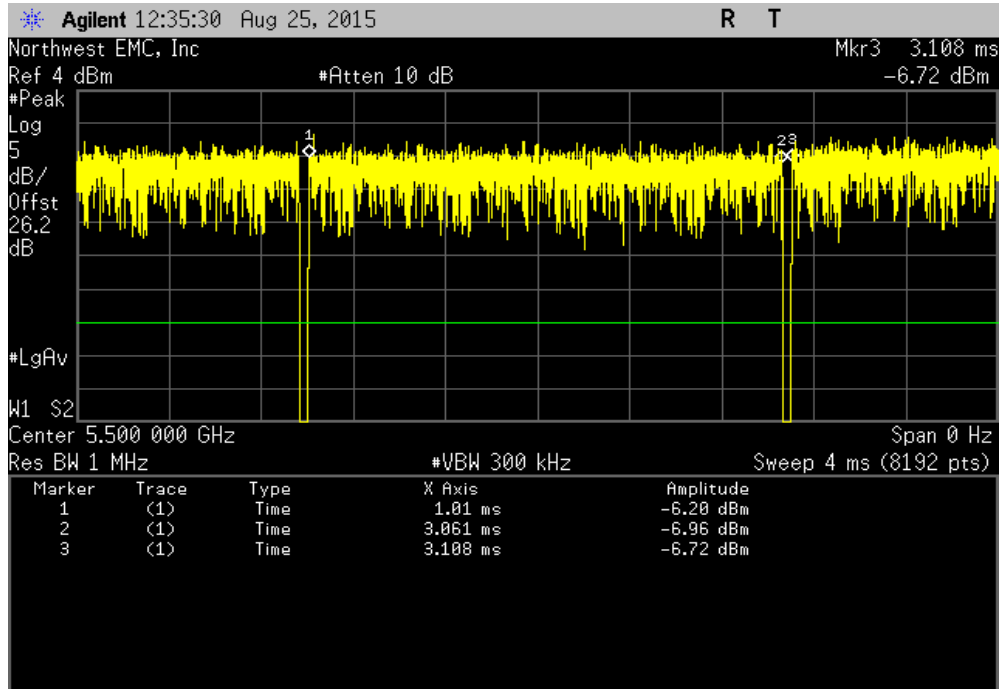


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

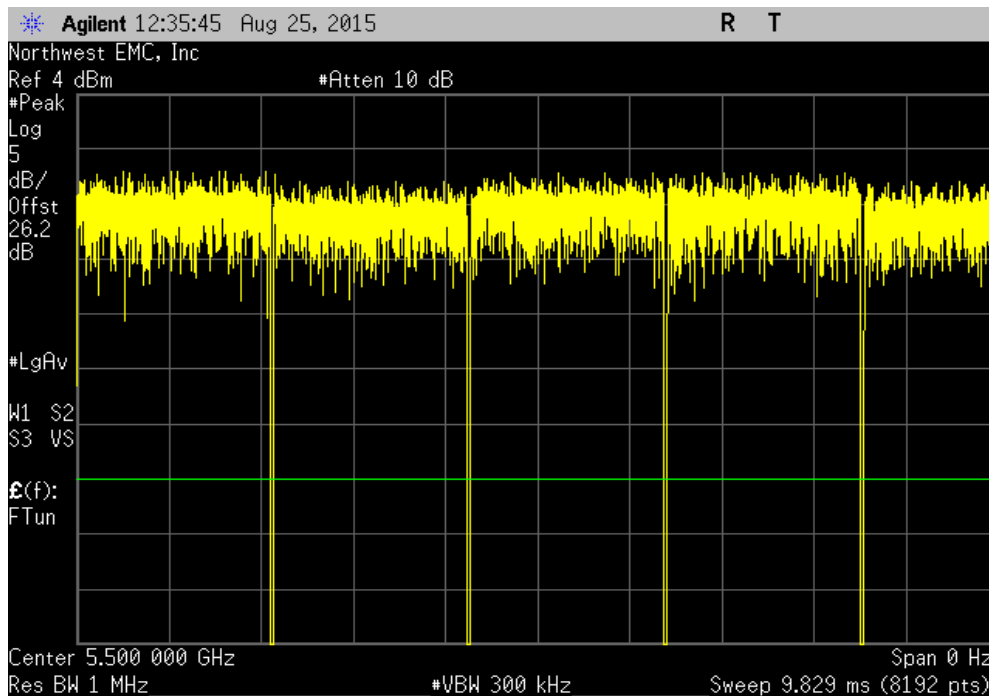


DUTY CYCLE

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.052 ms	2.098 ms	1	97.8	N/A	N/A

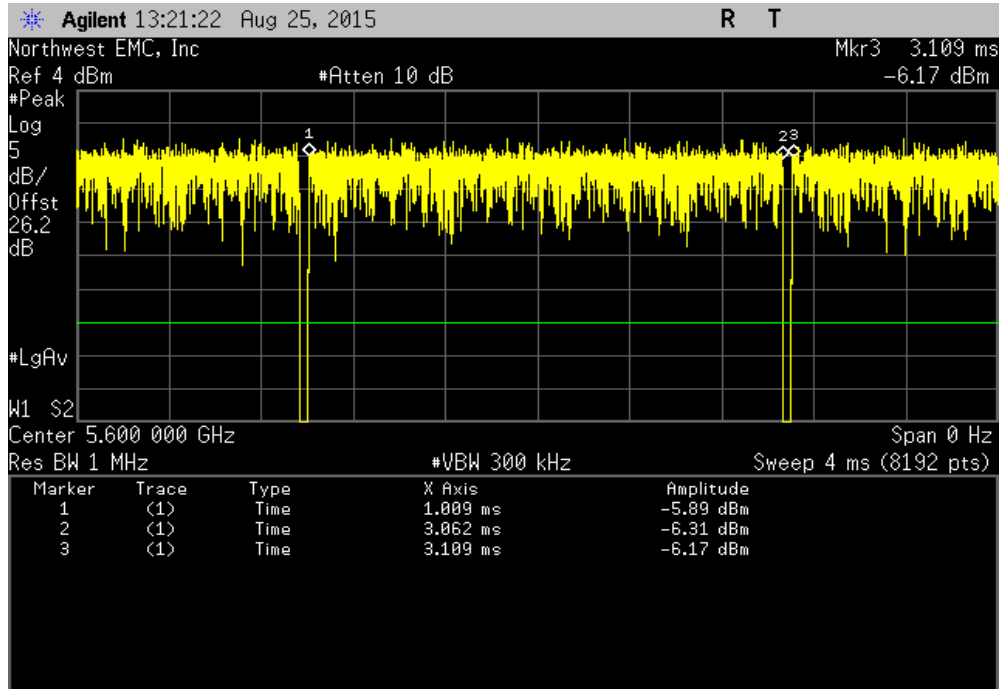


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

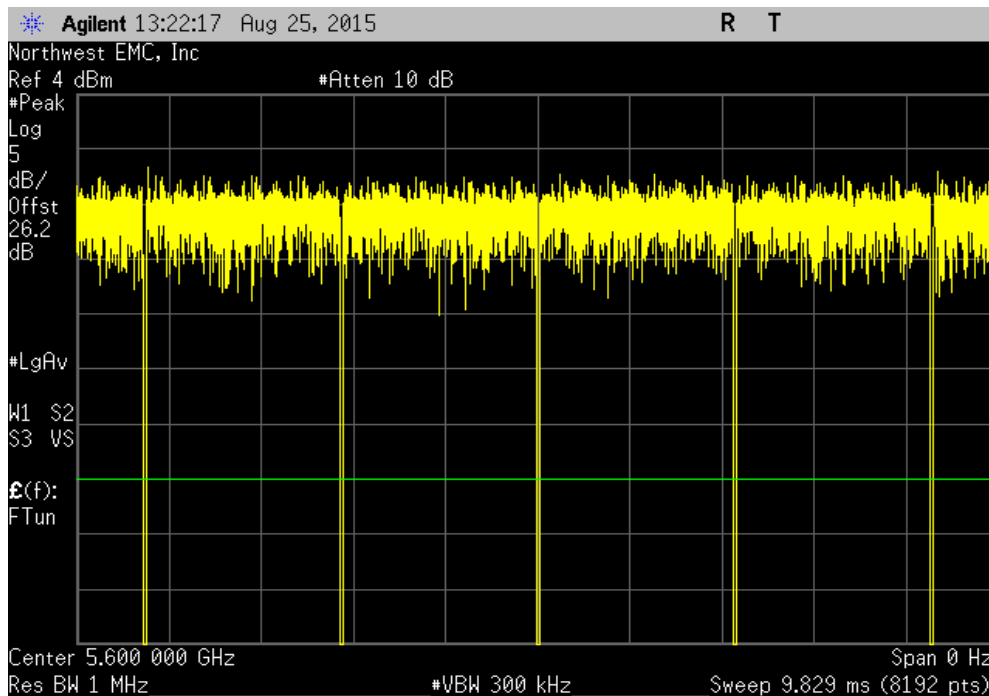


DUTY CYCLE

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.053 ms	2.1 ms	1	97.8	N/A	N/A

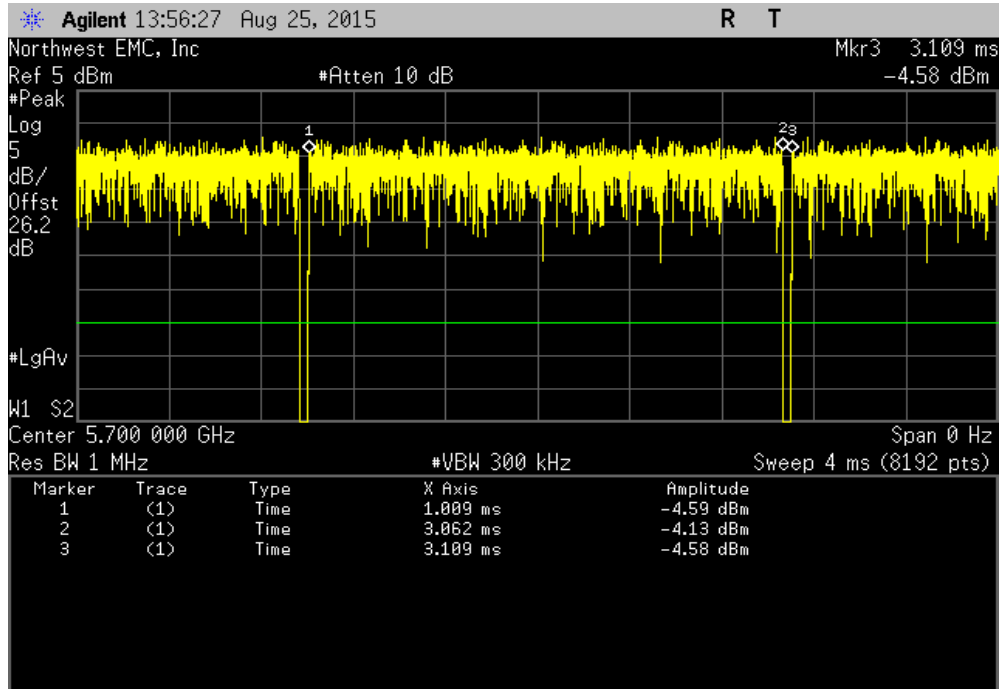


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	6	N/A	N/A	N/A

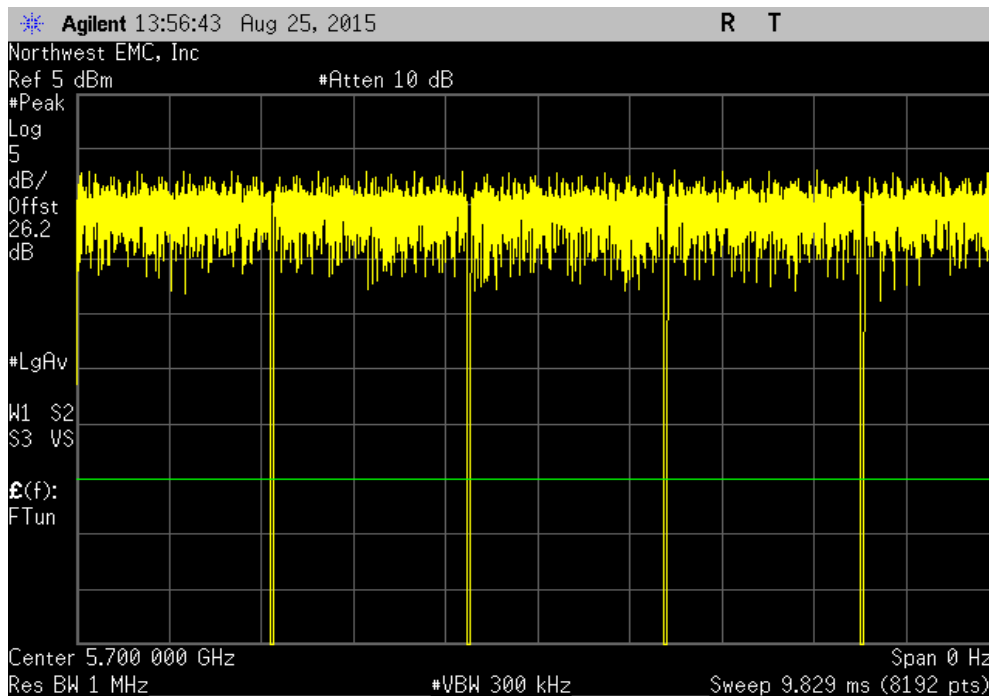


DUTY CYCLE

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.053 ms	2.099 ms	1	97.8	N/A	N/A

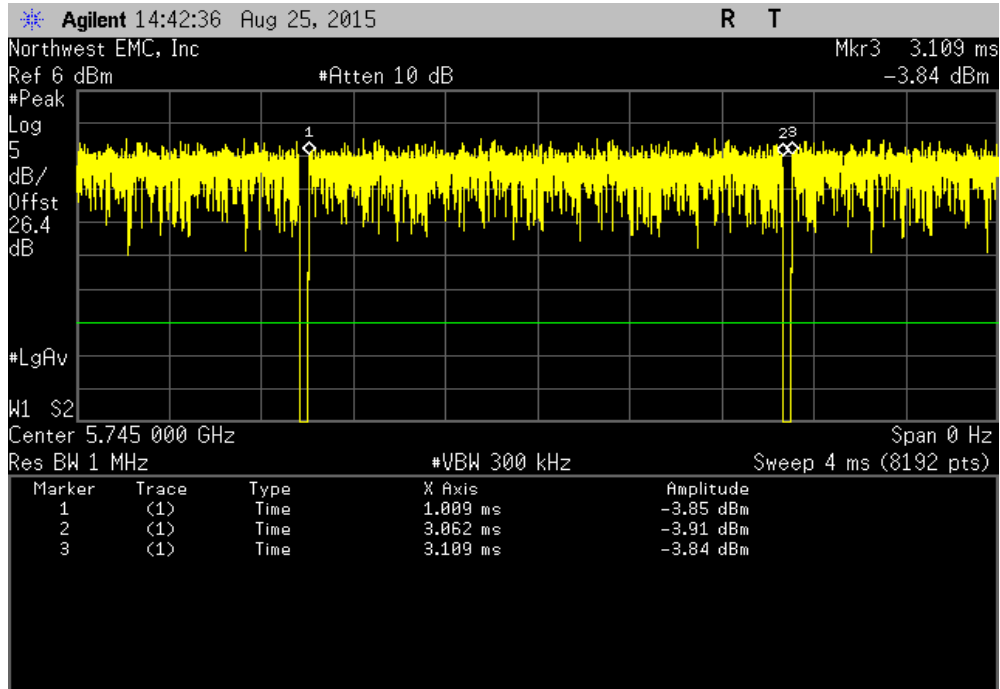


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

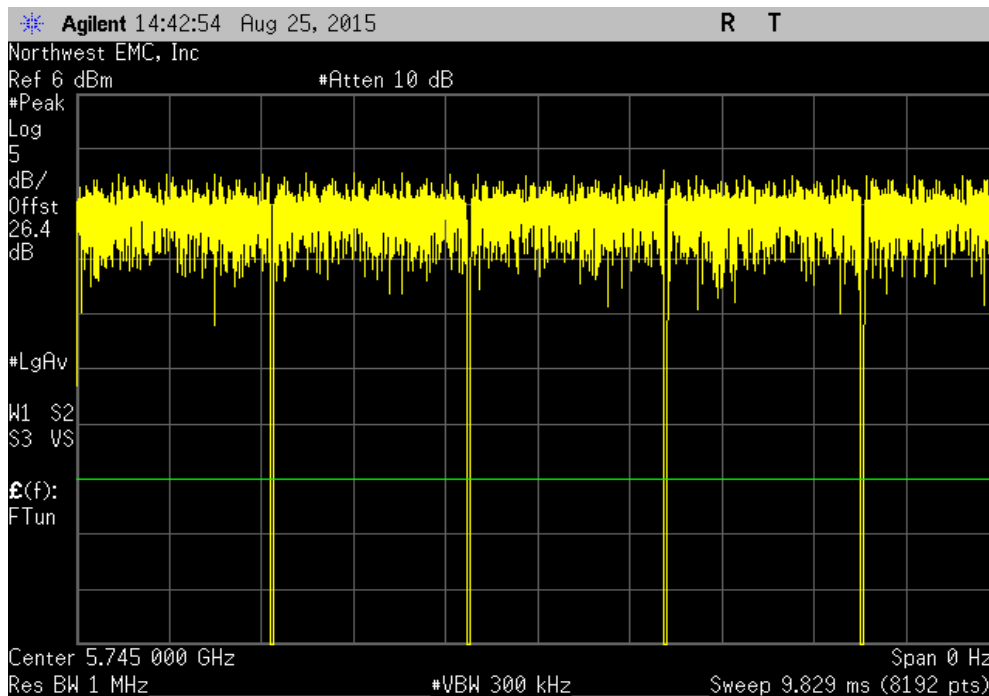


DUTY CYCLE

802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.053 ms	2.099 ms	1	97.8	N/A	N/A

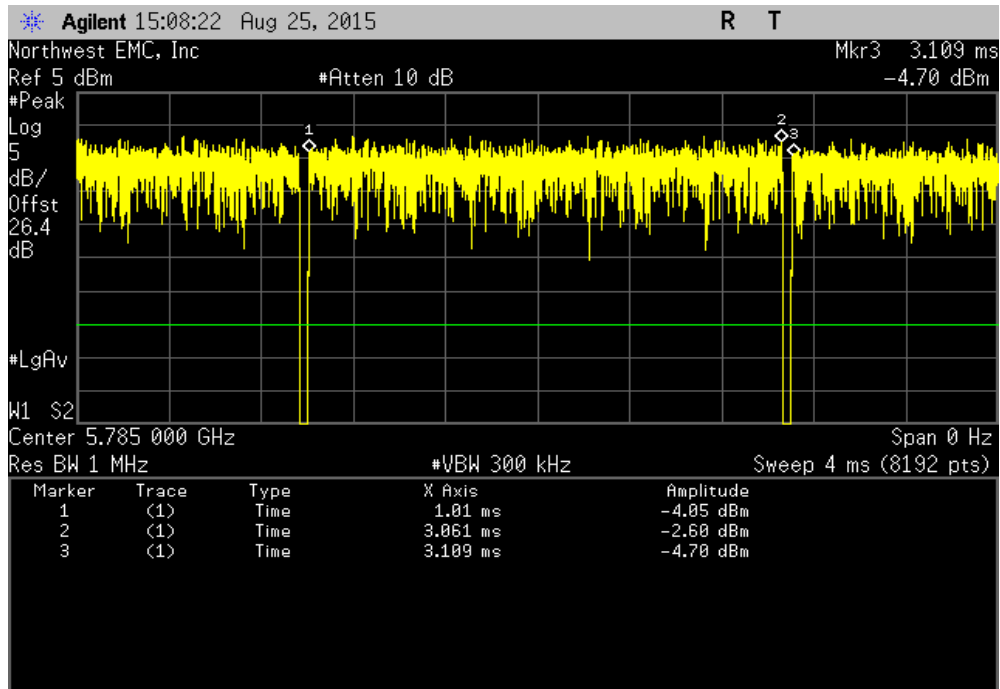


802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

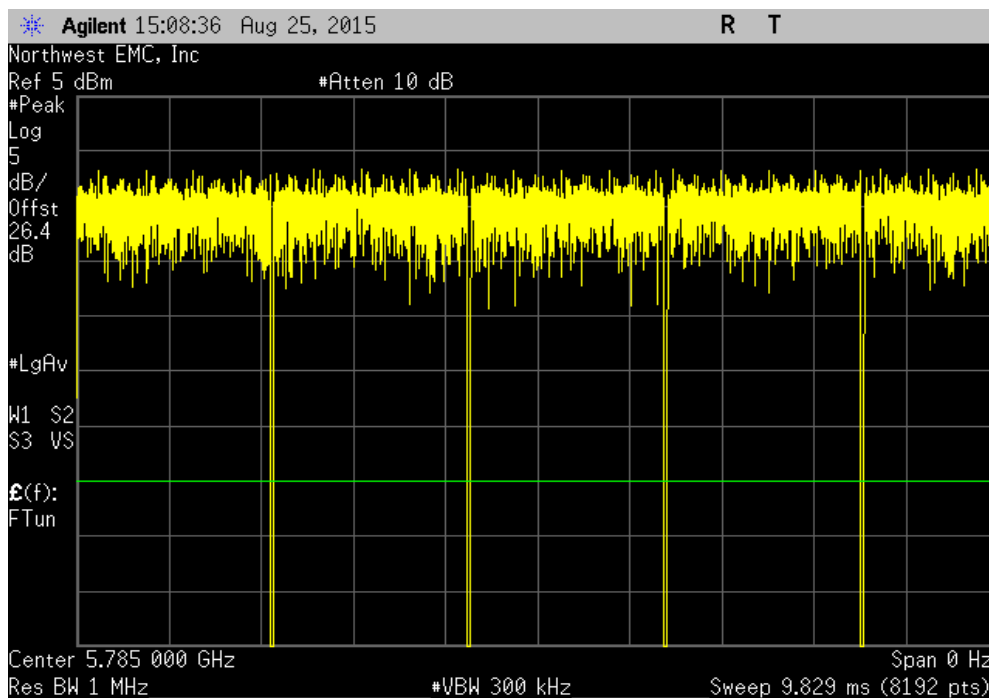


DUTY CYCLE

802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.051 ms	2.099 ms	1	97.7	N/A	N/A

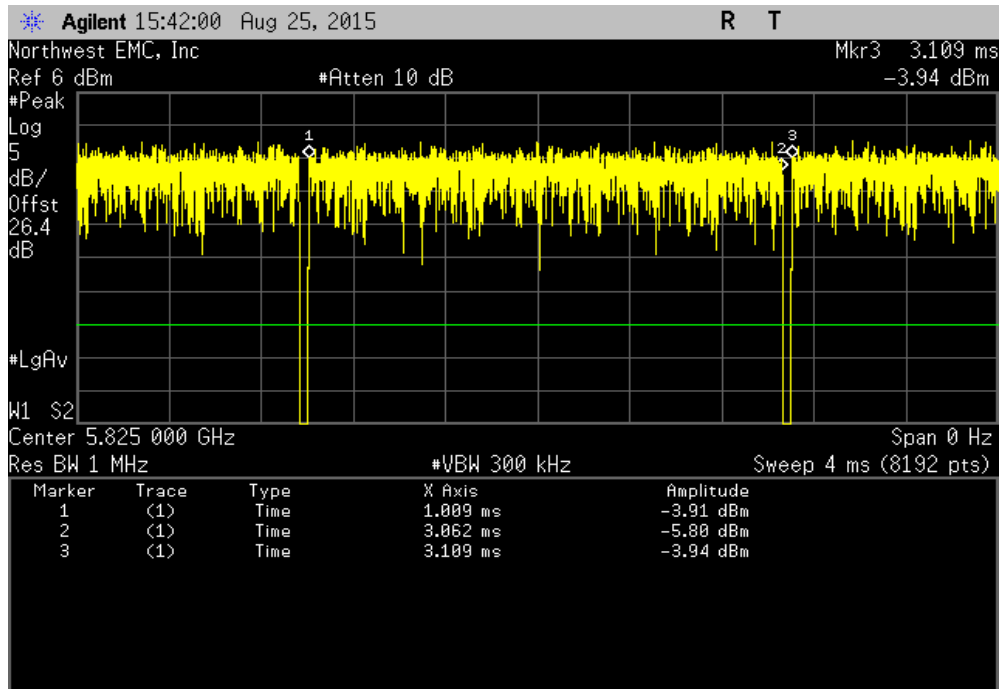


802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

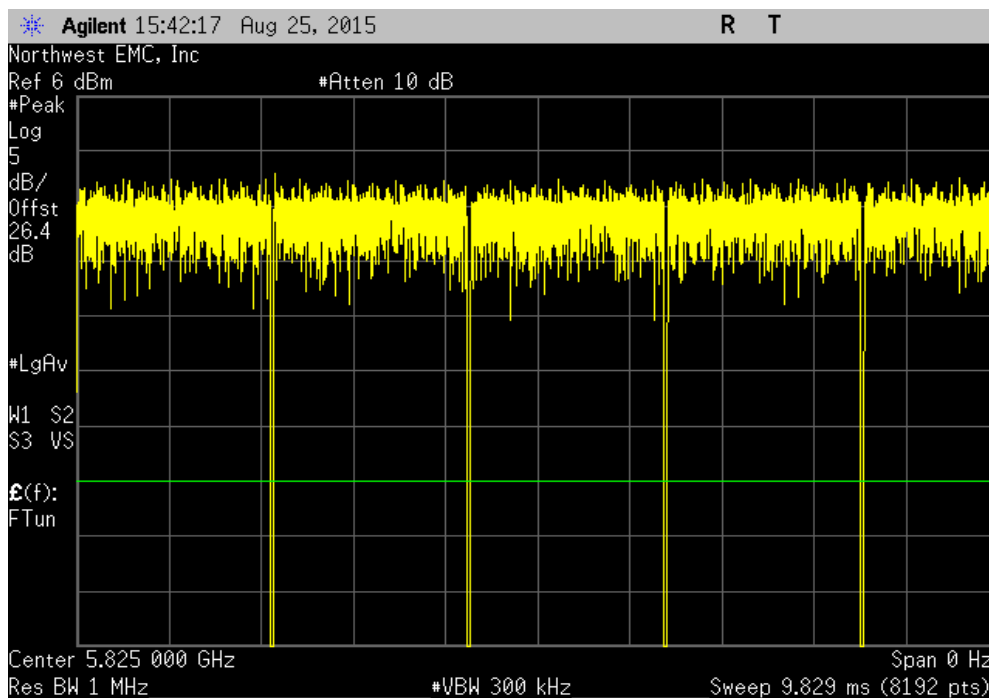


DUTY CYCLE

802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.053 ms	2.099 ms	1	97.8	N/A	N/A

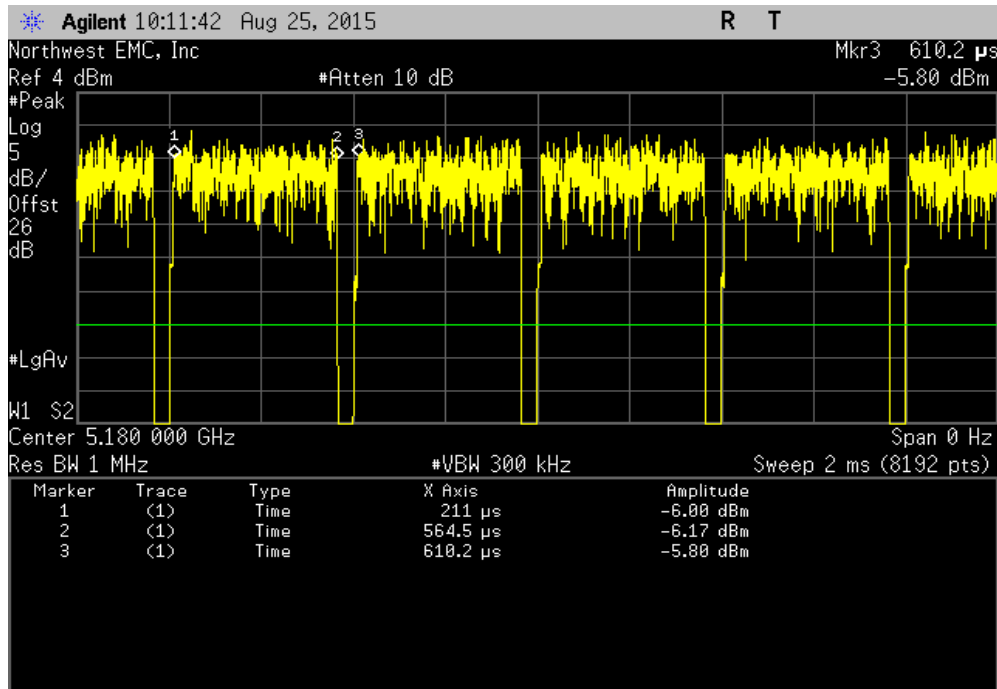


802.11(a) 6 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

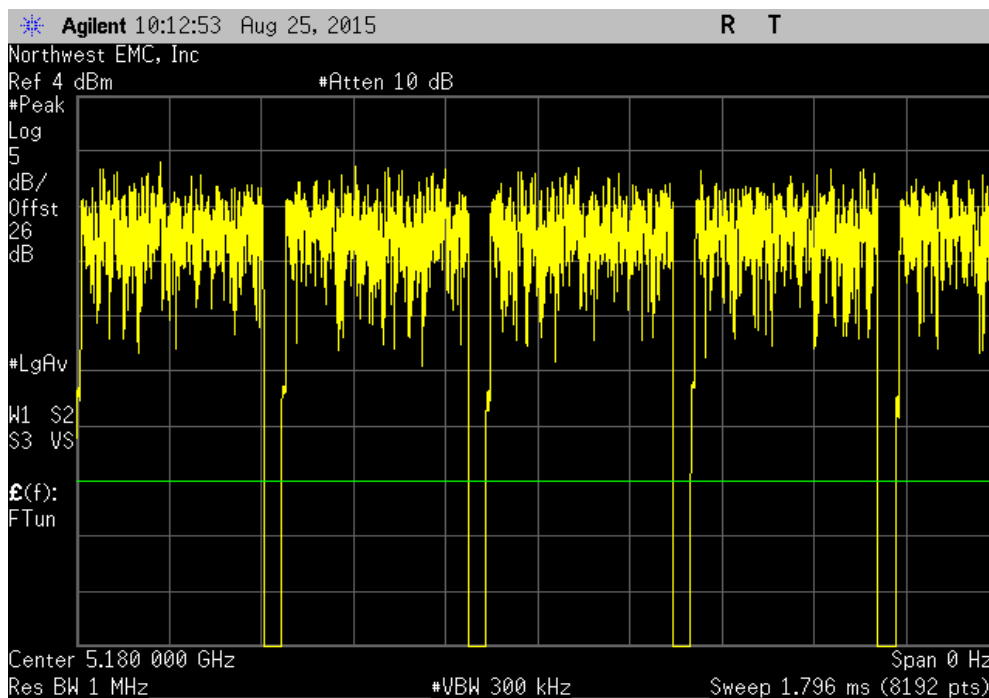


DUTY CYCLE

802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
353.582 us	399.2 us	1	88.6	N/A	N/A	

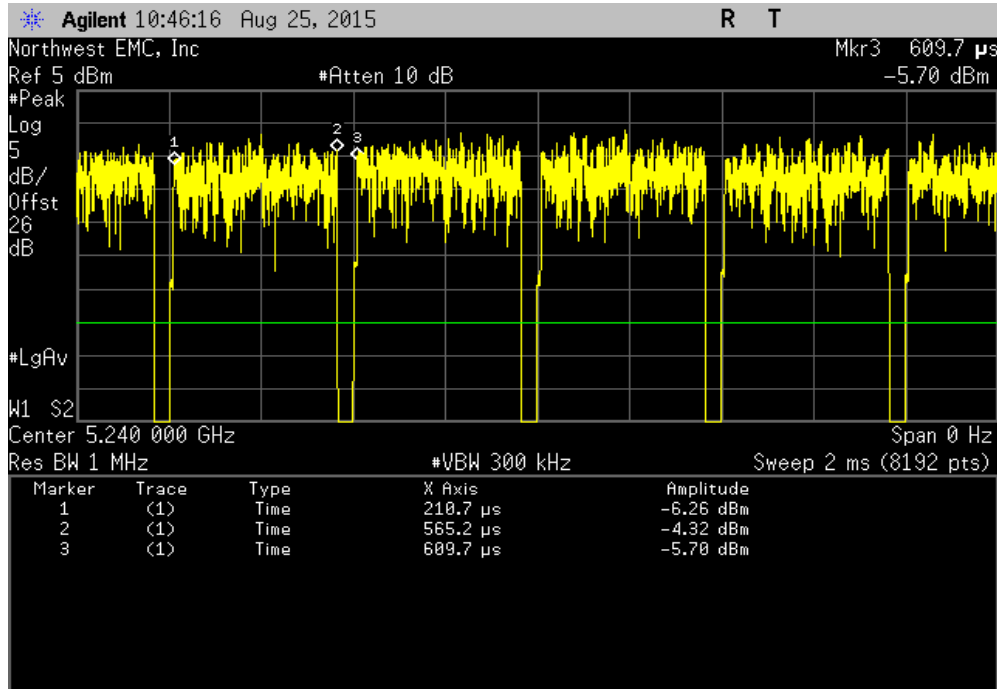


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

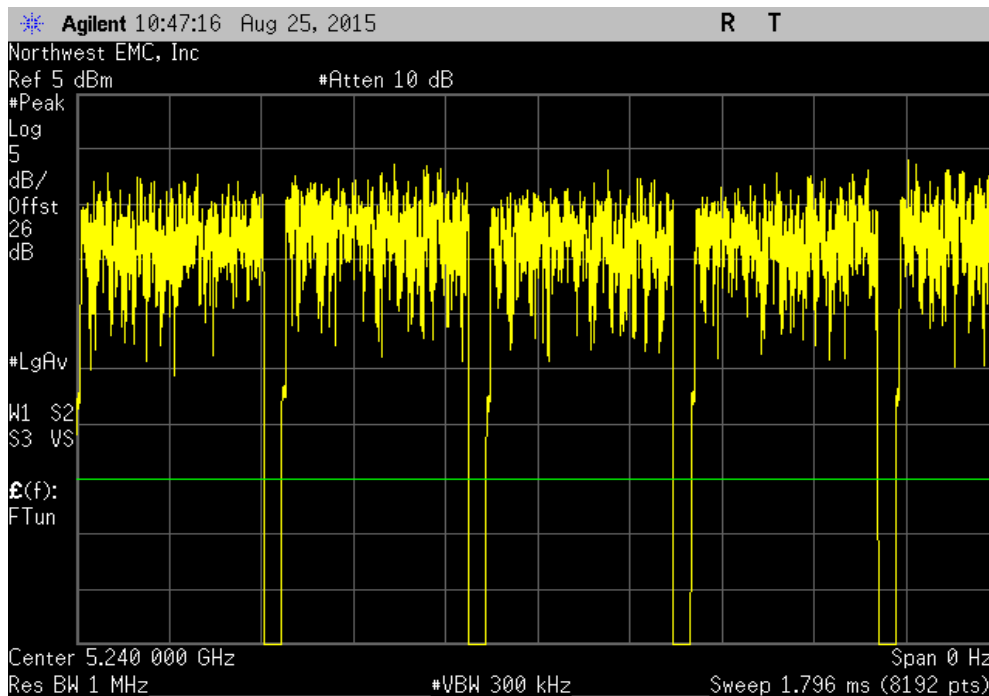


DUTY CYCLE

802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
354.502 us	399 us	1	88.8	N/A	N/A	

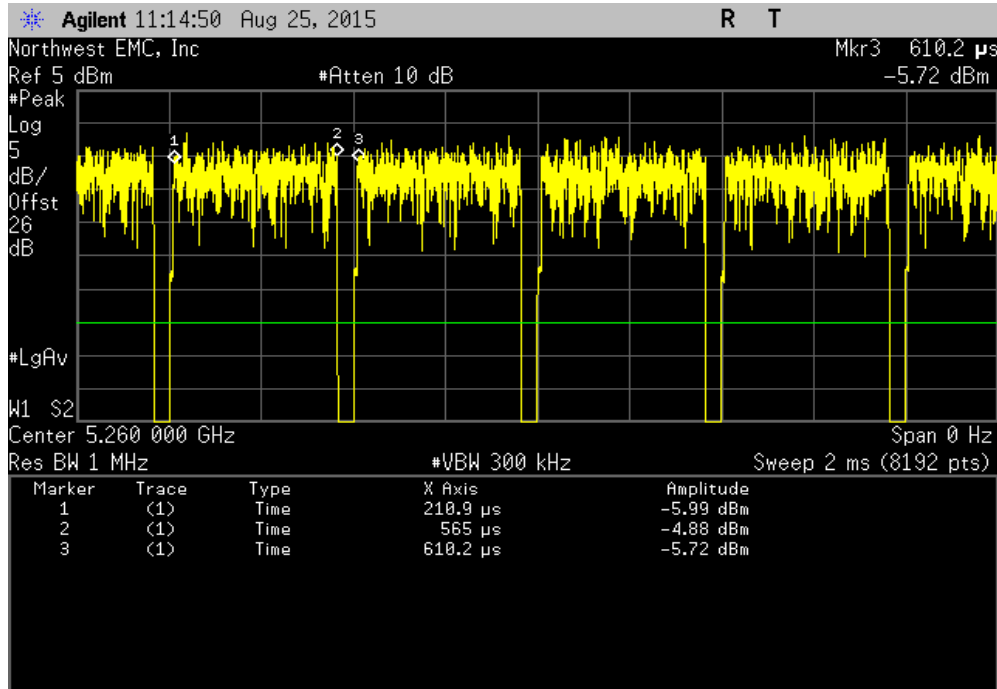


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

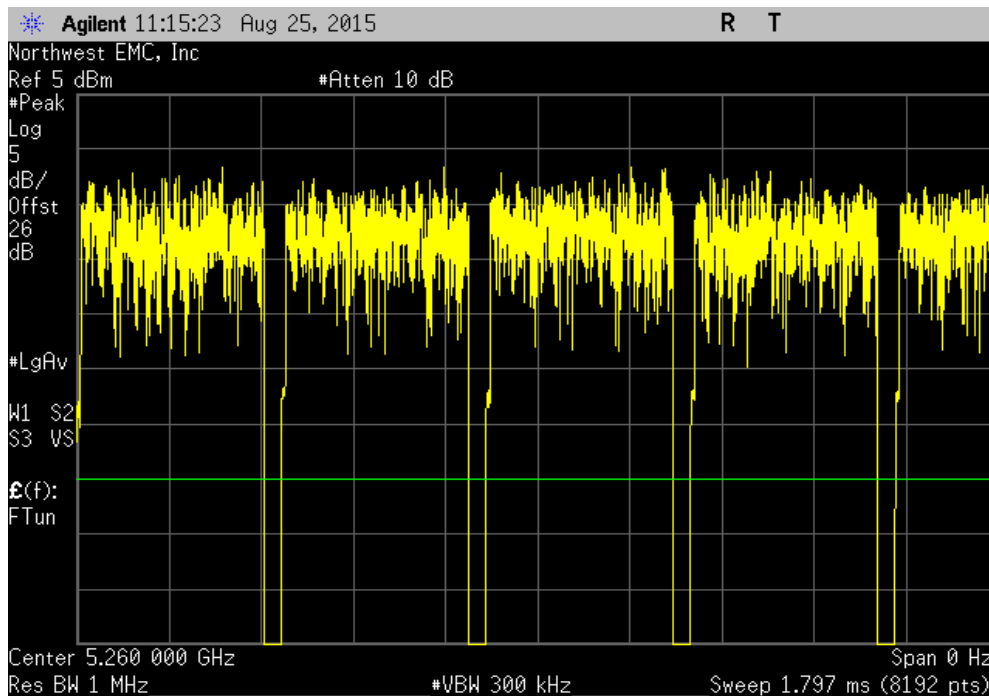


DUTY CYCLE

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
354.058 us	399.3 us	1	88.7	N/A	N/A	

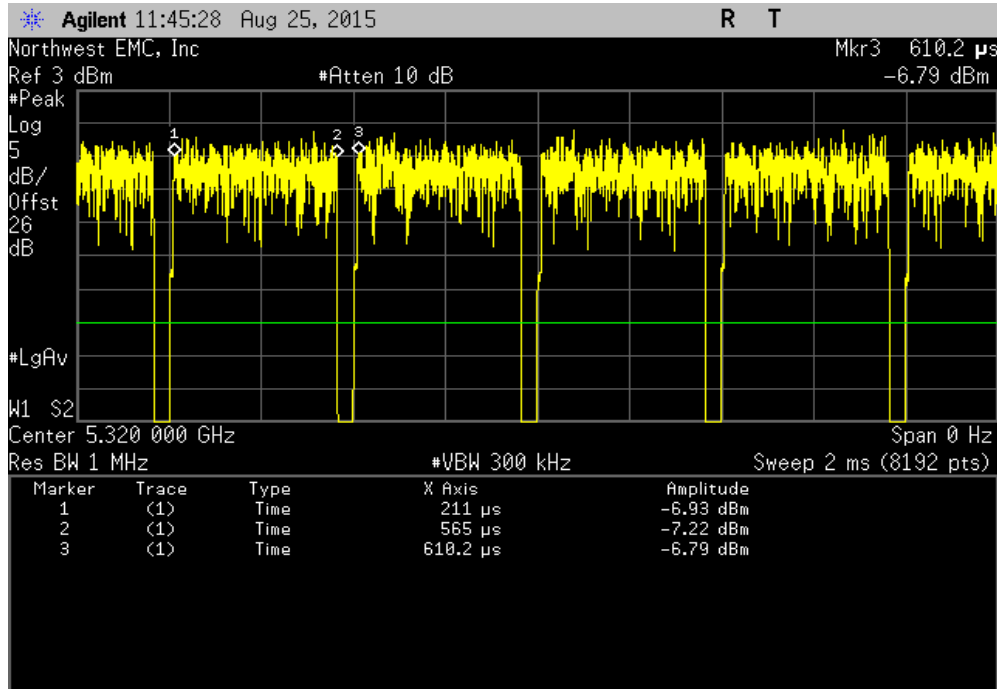


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

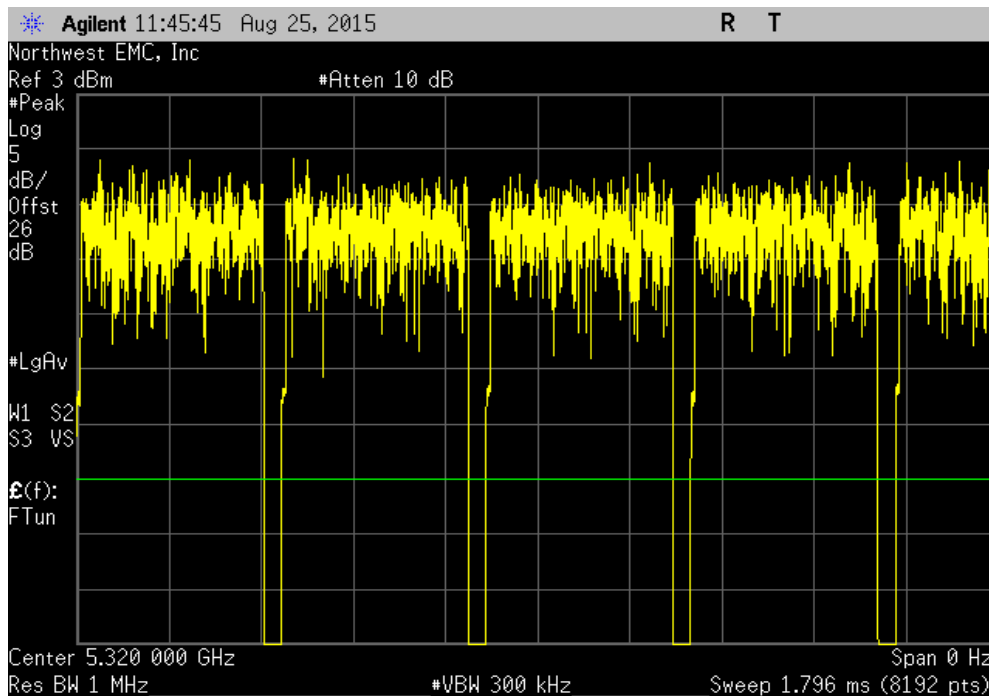


DUTY CYCLE

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
354.058 us	399.2 us	1	88.7	N/A	N/A	

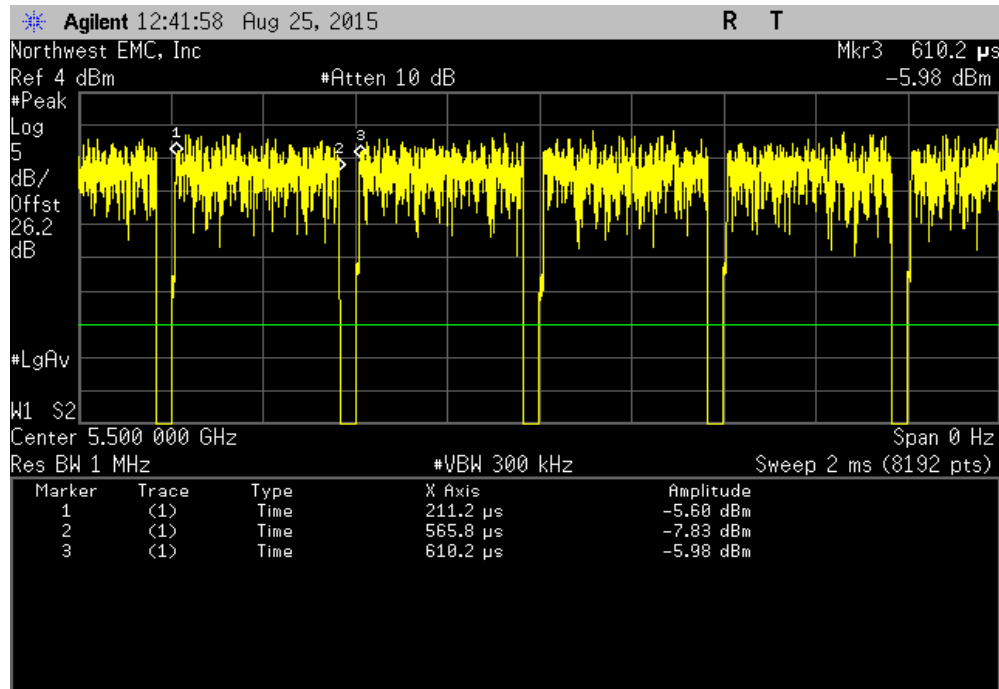


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

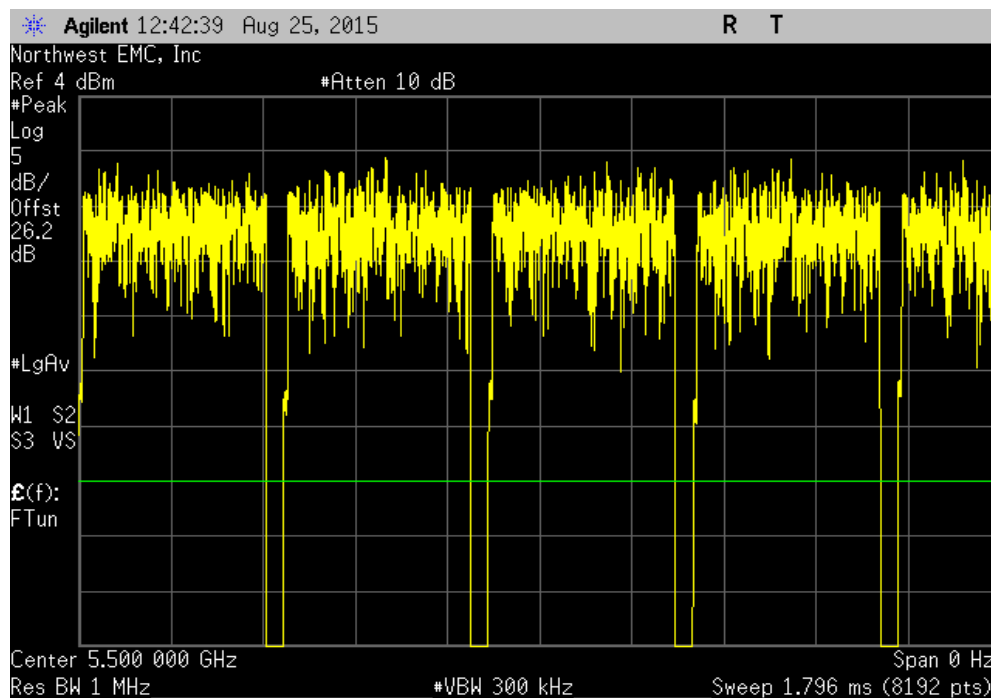


DUTY CYCLE

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
354.602 us	399.056 us	1	88.9	N/A	N/A	

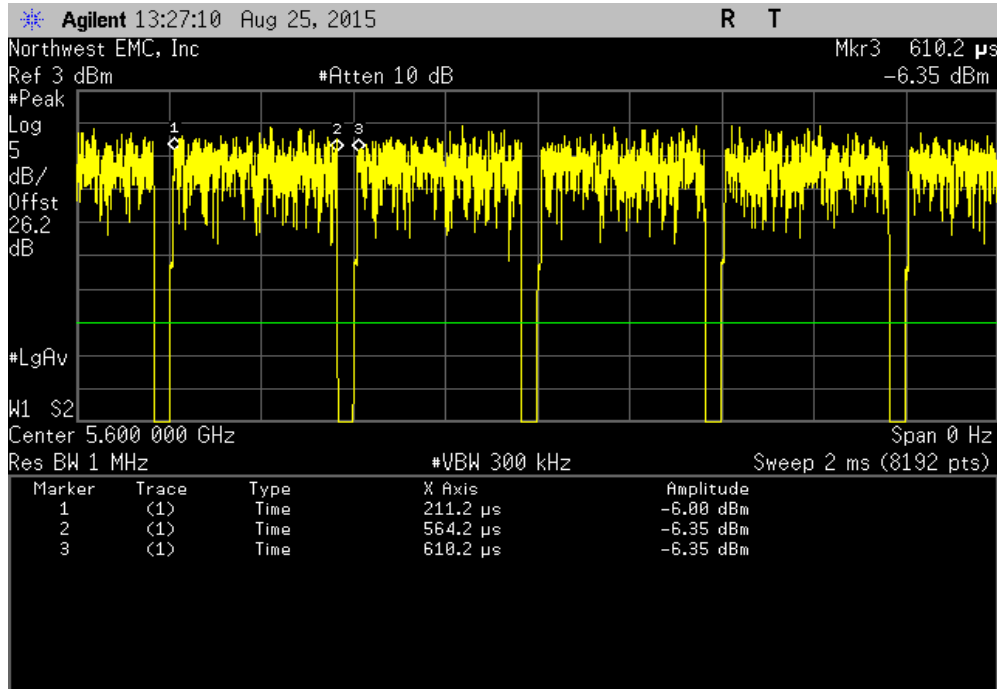


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

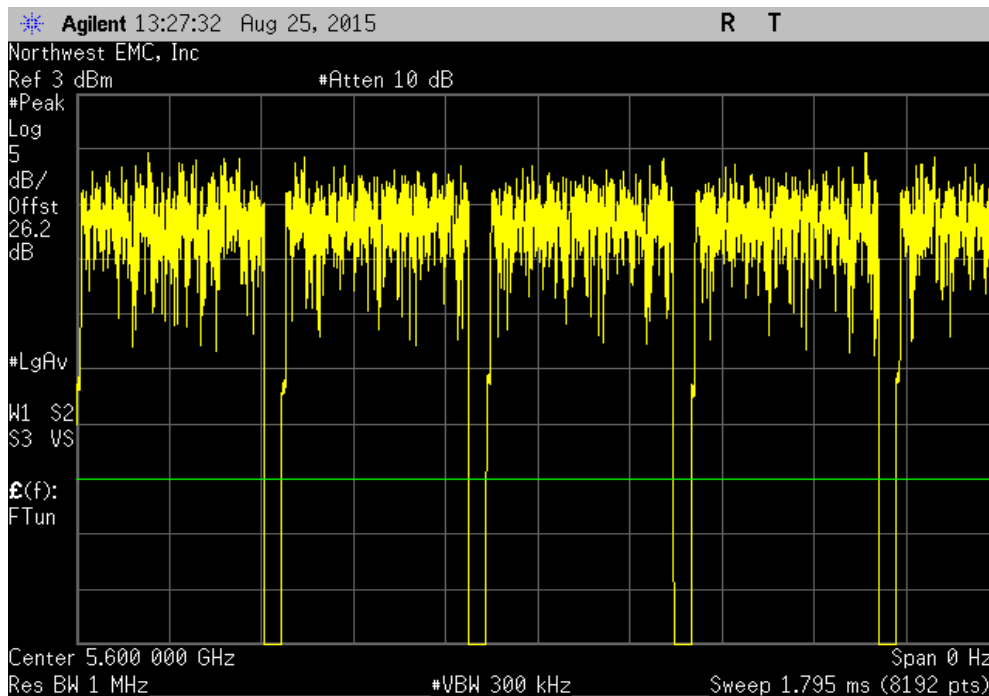


DUTY CYCLE

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
353.037 us	398.956 us	1	88.5	N/A	N/A	

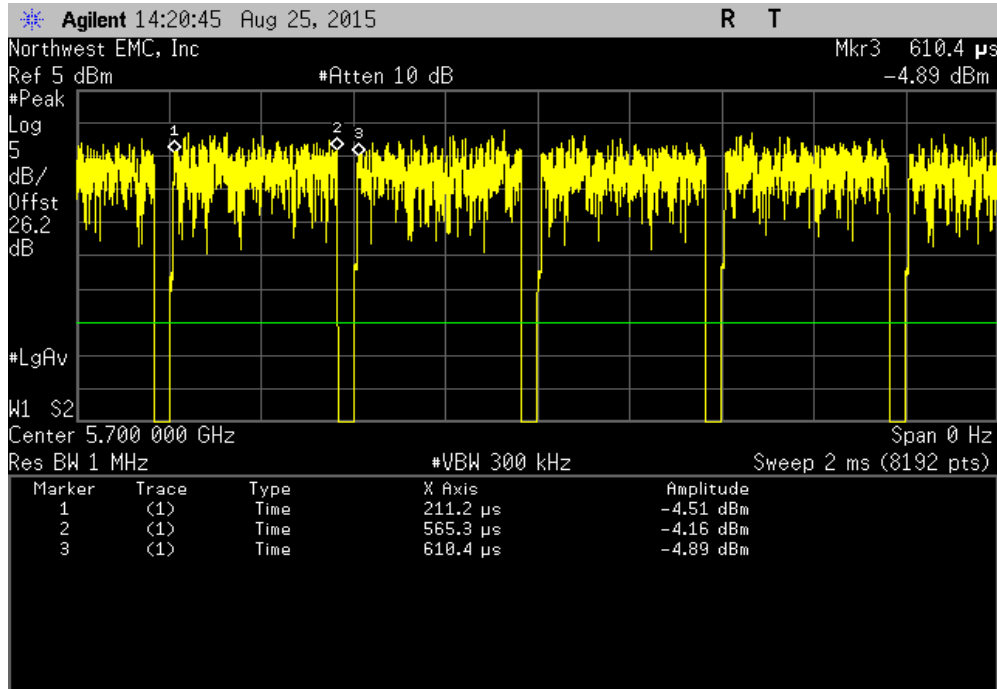


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

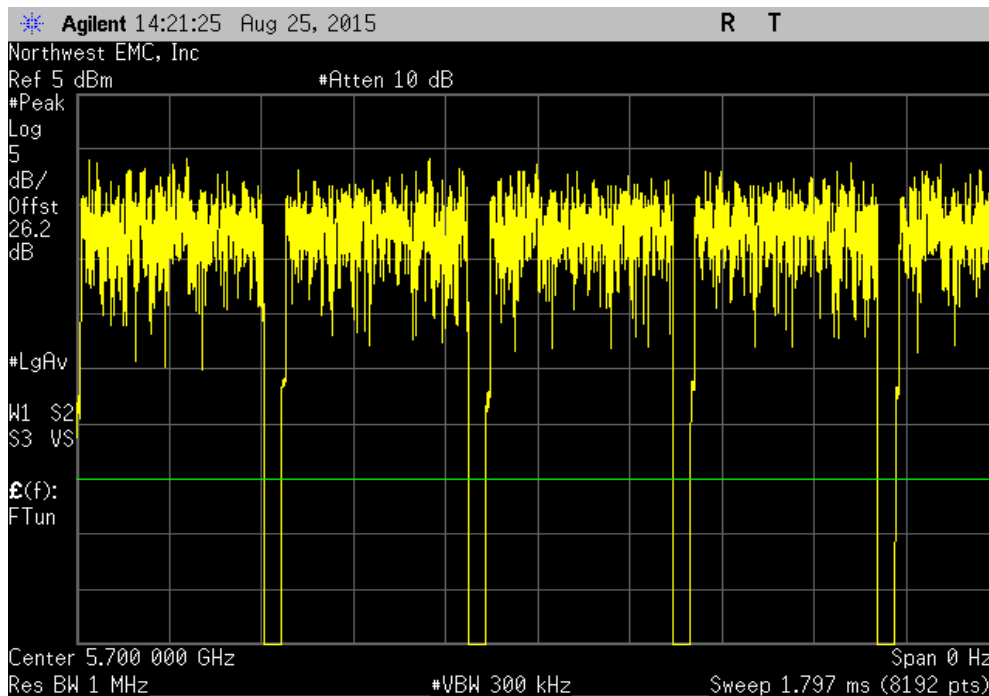


DUTY CYCLE

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
354.114 us	399.244 us	1	88.7	N/A	N/A	

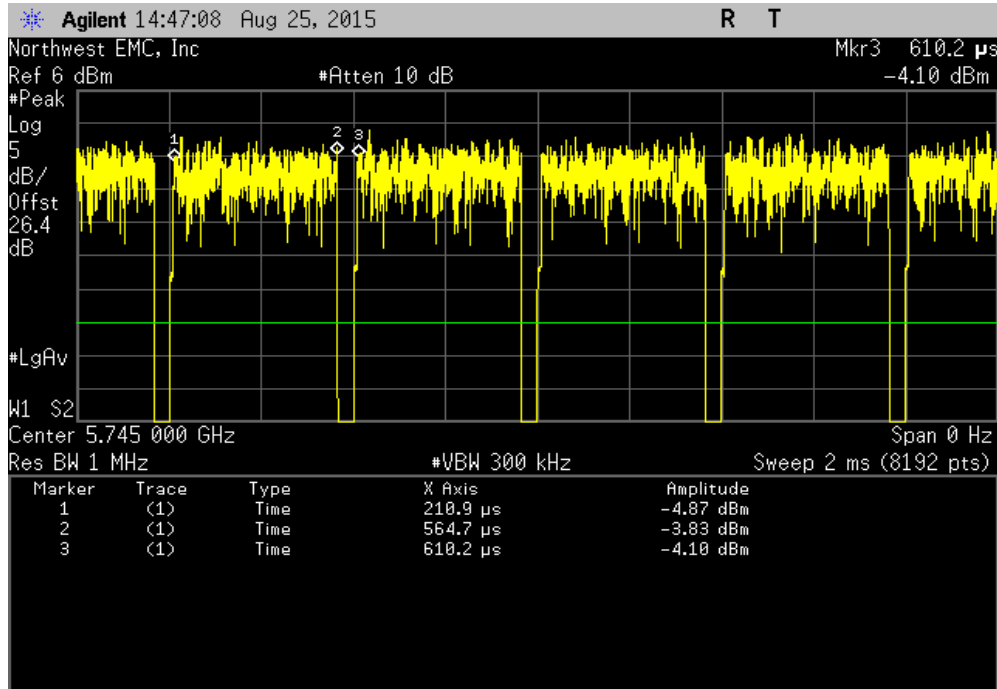


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

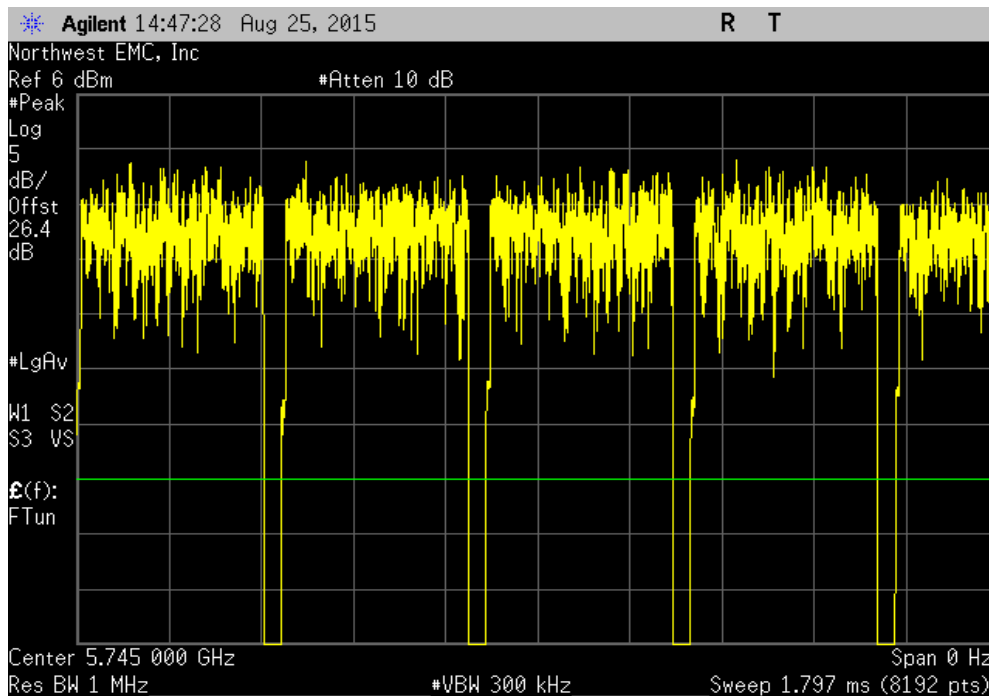


DUTY CYCLE

802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
353.814 us	399.244 us	1	88.6	N/A	N/A	

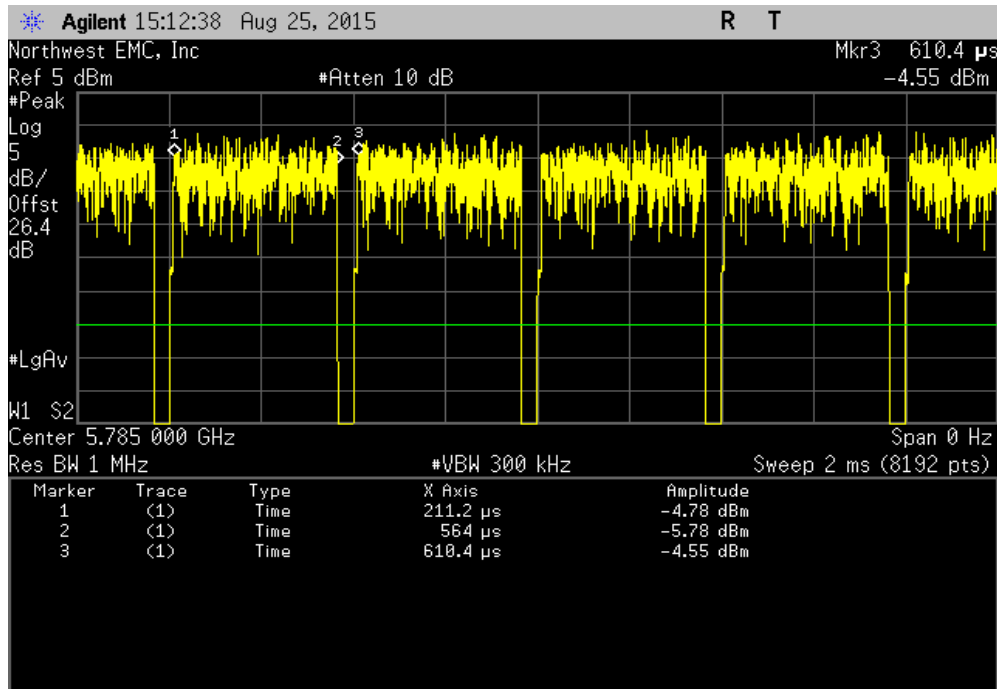


802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

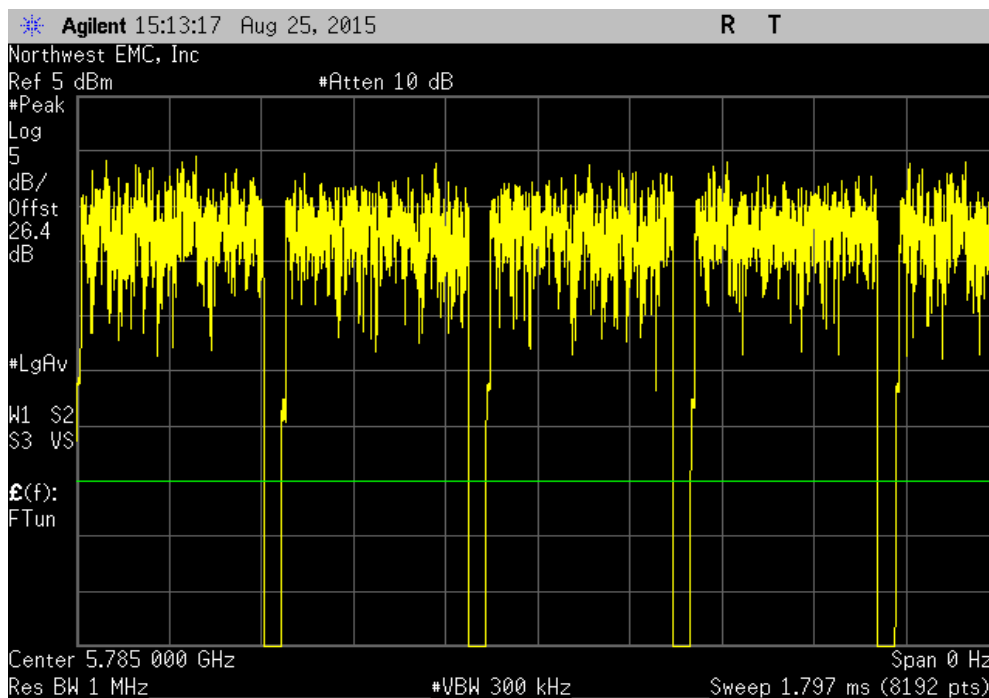


DUTY CYCLE

802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
352.837 us	399.244 us	1	88.4	N/A	N/A	

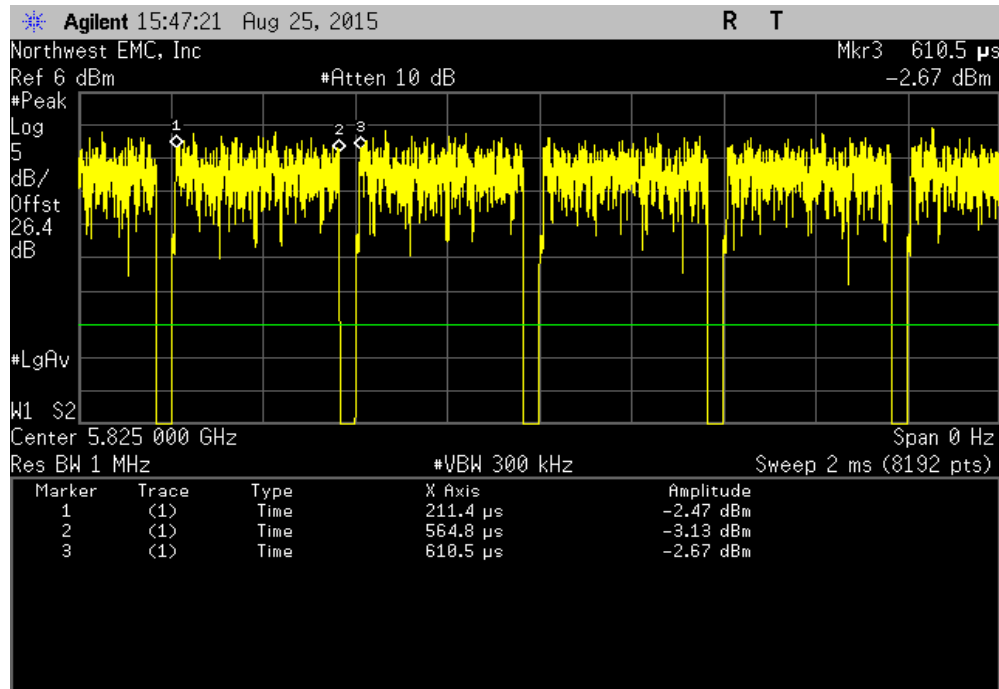


802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

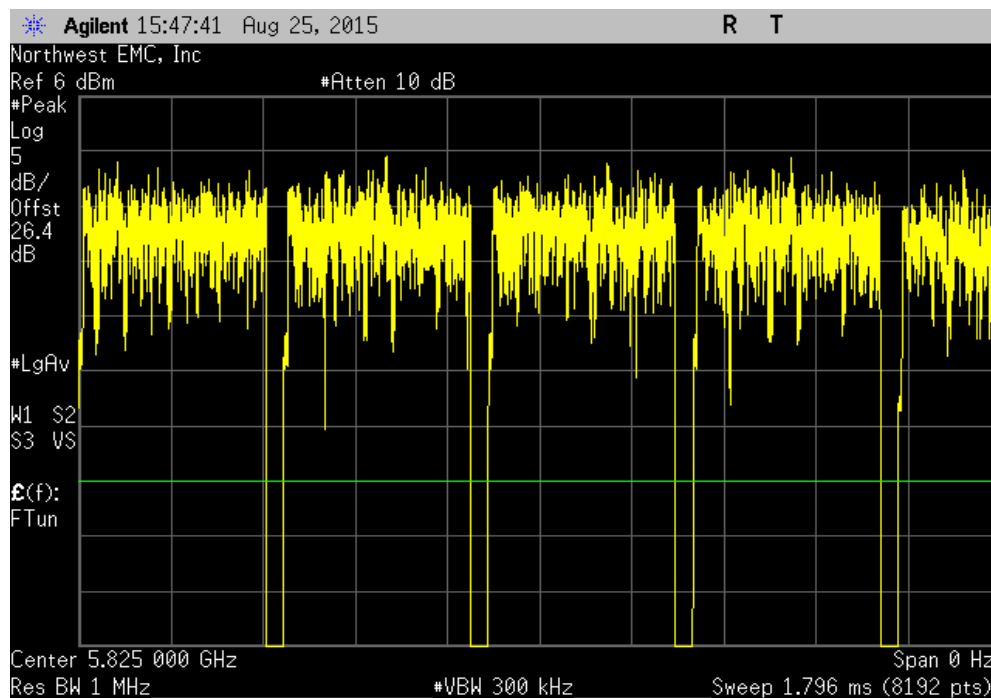


DUTY CYCLE

802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
353.382 us	399.056 us	1	88.6	N/A	N/A	

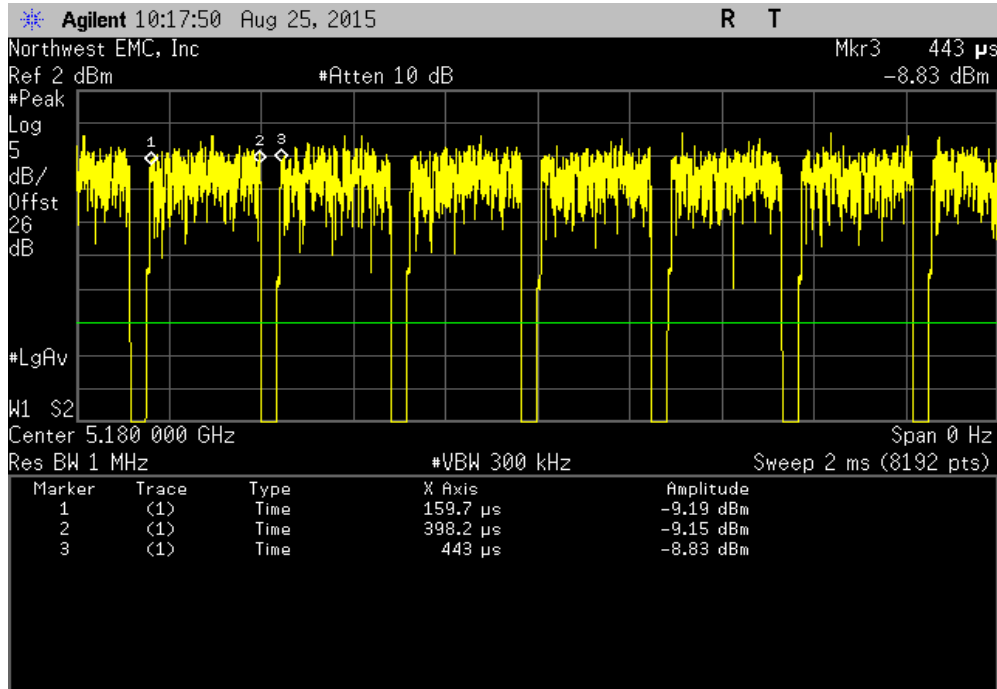


802.11(a) 36 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

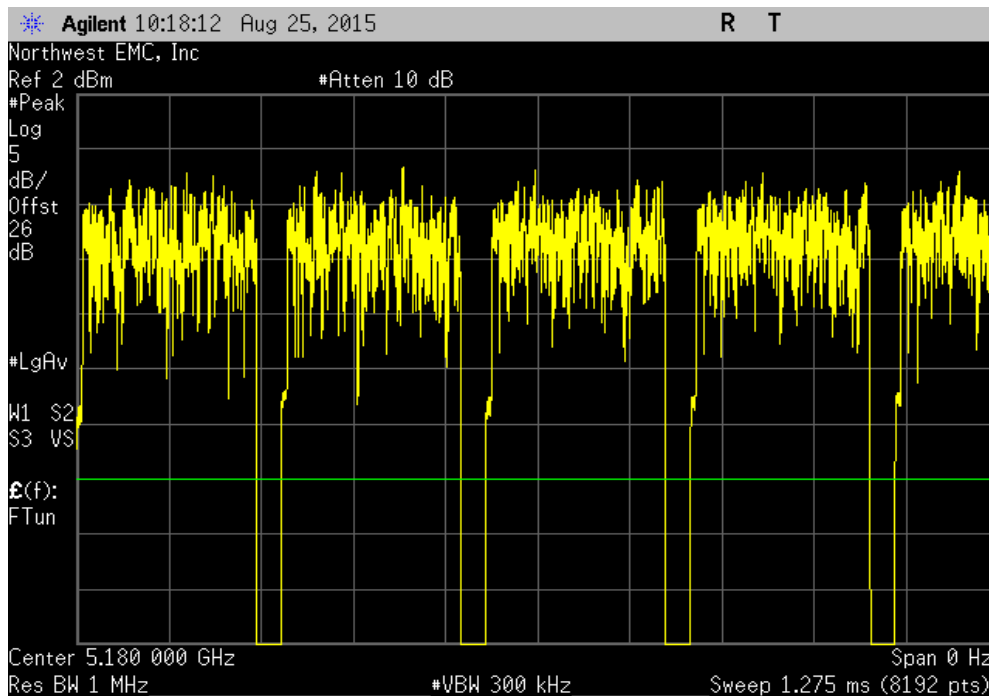


DUTY CYCLE

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
238.558 us	283.3 us	1	84.2	N/A	N/A	

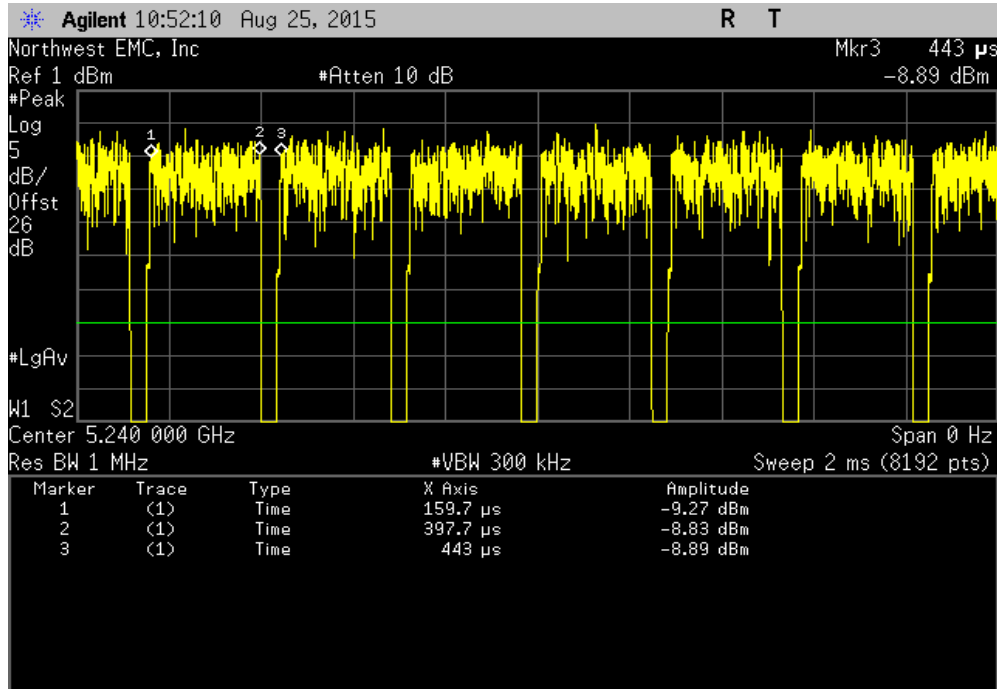


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



DUTY CYCLE

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
238.002 us	283.244 us	1	84	N/A	N/A	

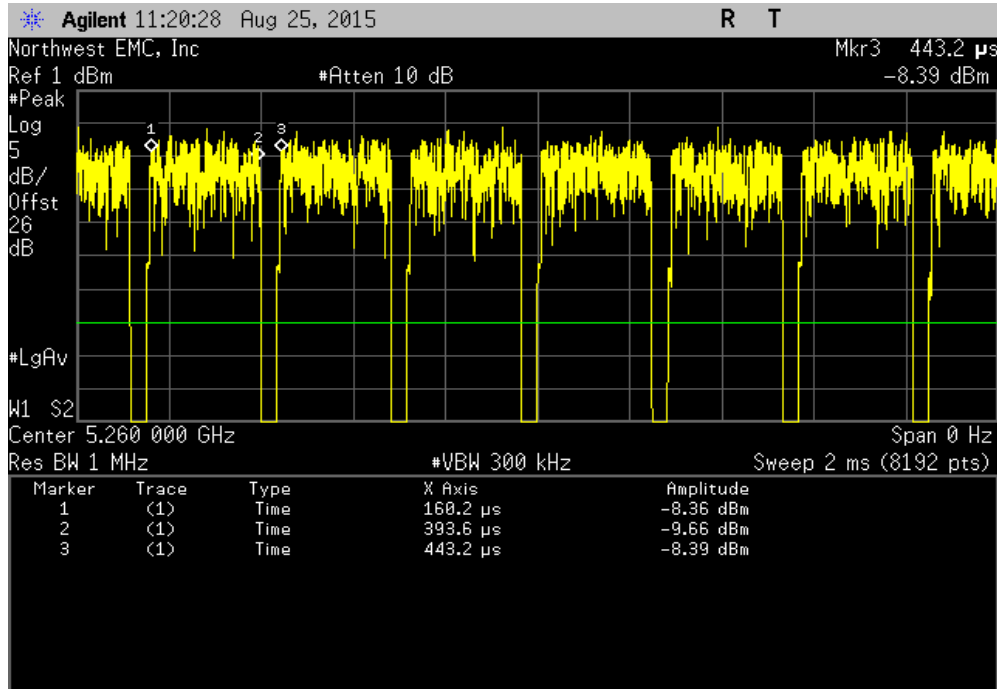


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

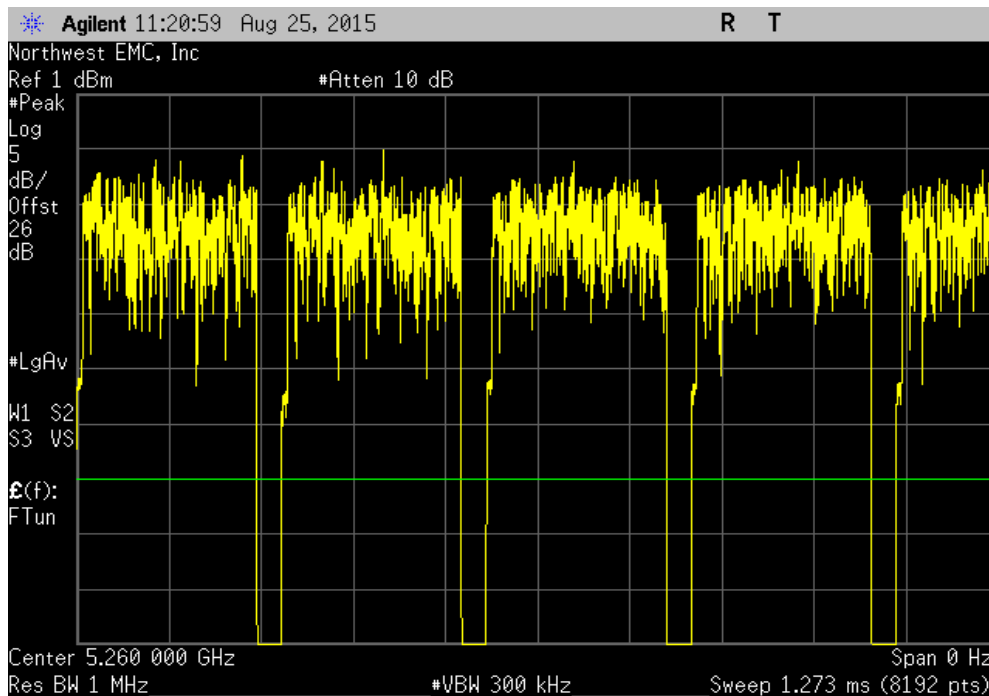


DUTY CYCLE

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
233.431 us	282.956 us	1	82.5	N/A	N/A	

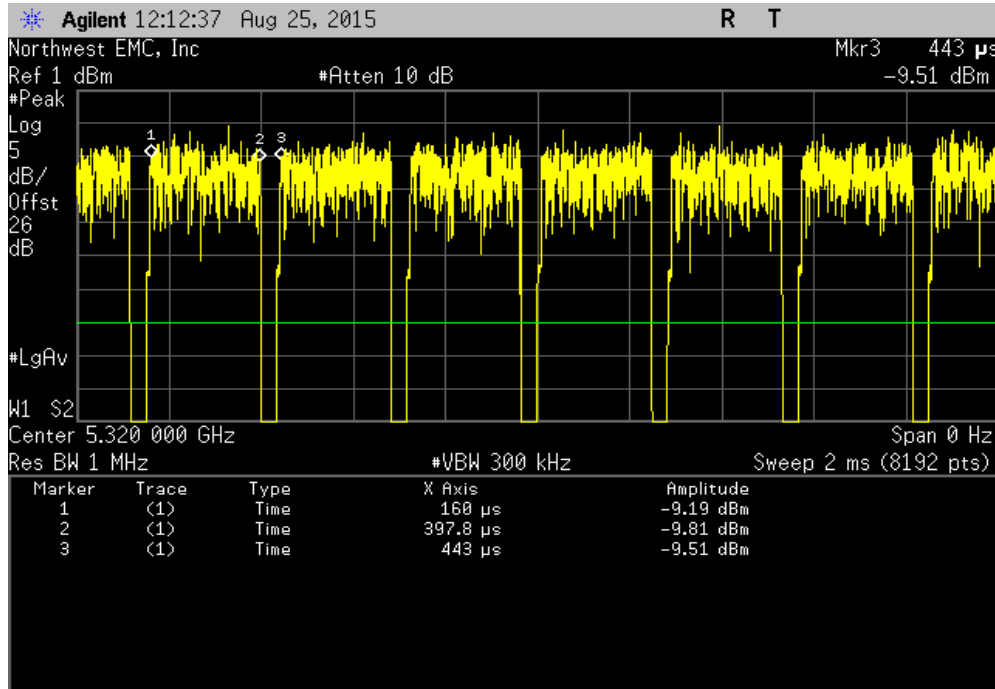


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

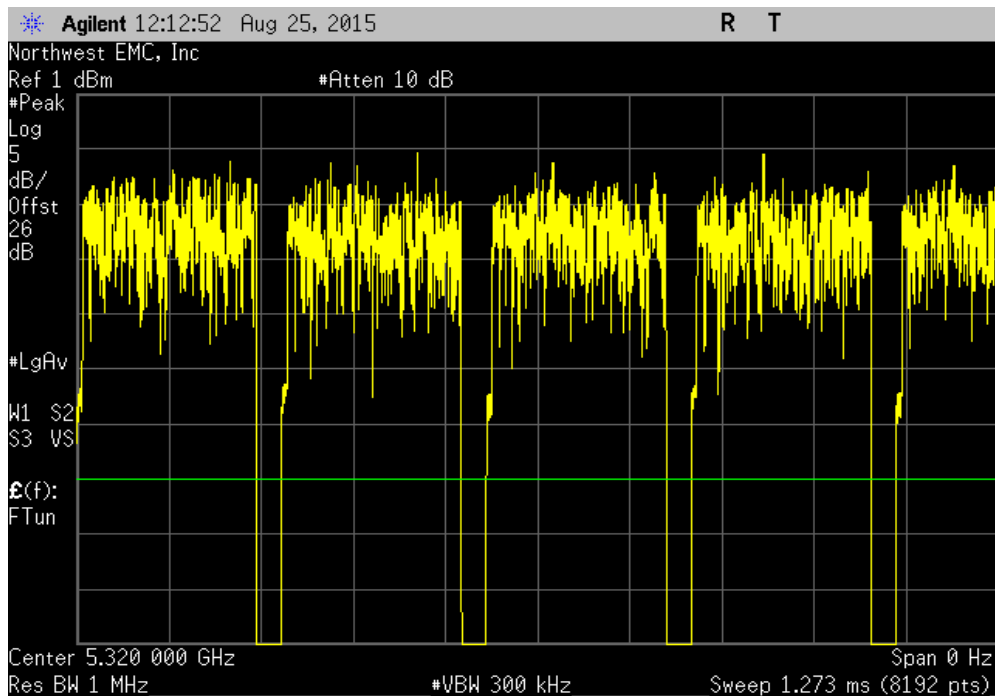


DUTY CYCLE

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
237.814 us	283 us	1	84	N/A	N/A	

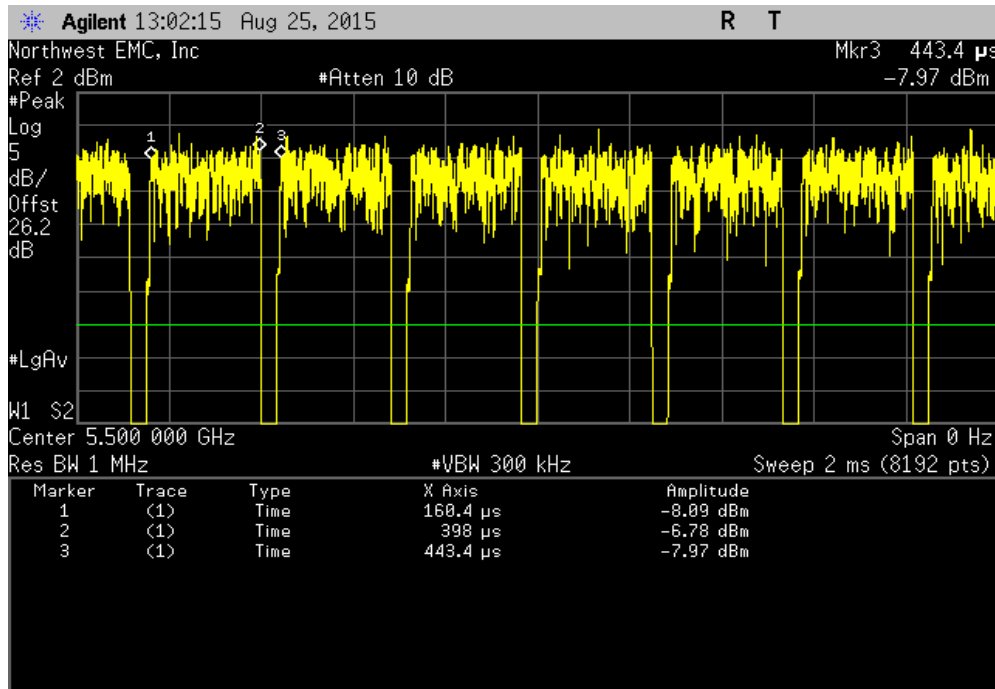


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

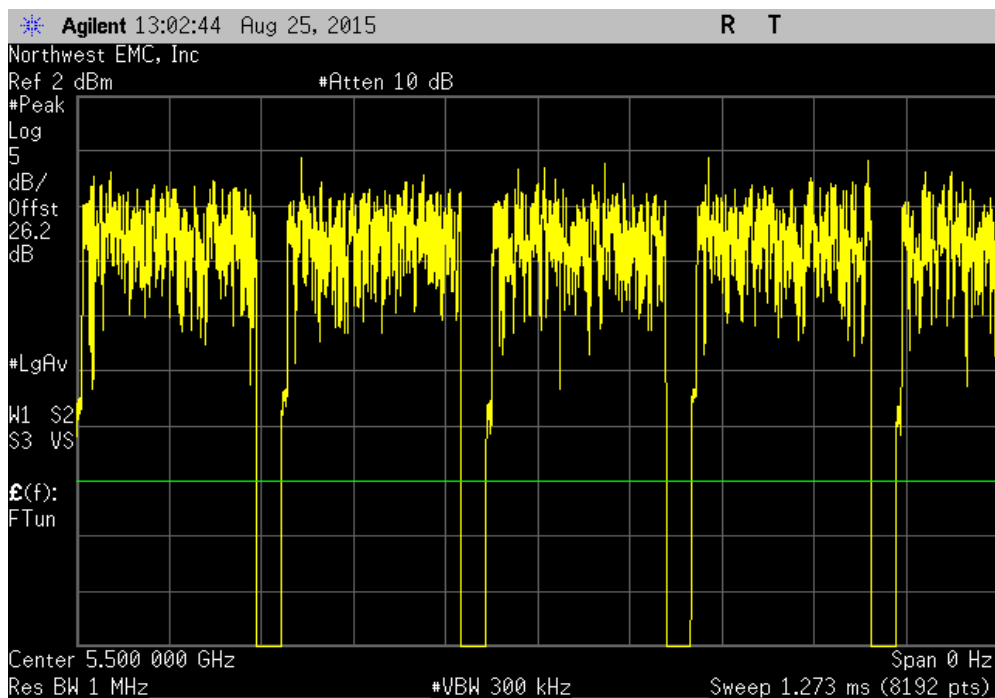


DUTY CYCLE

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
237.626 us	282.956 us	1	84	N/A	N/A	

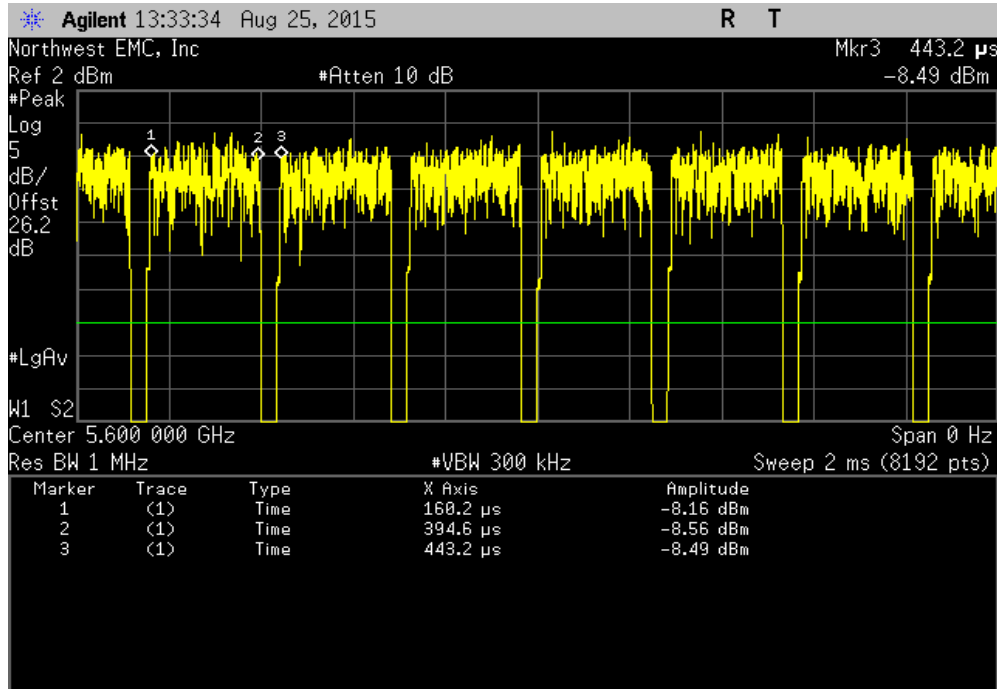


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

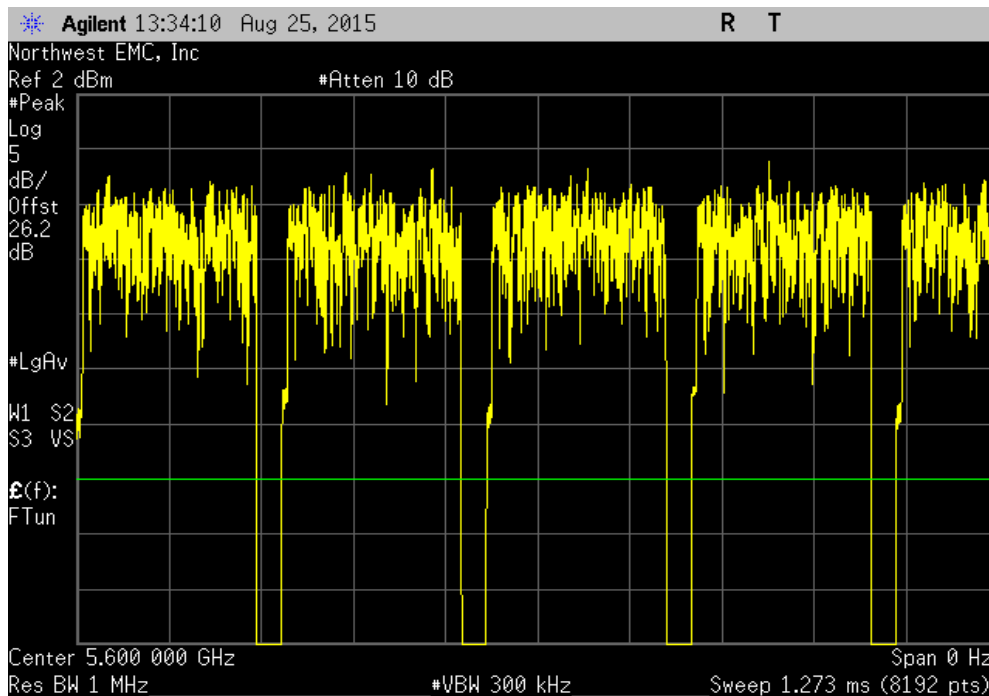


DUTY CYCLE

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
234.407 us	282.956 us	1	82.8	N/A	N/A	

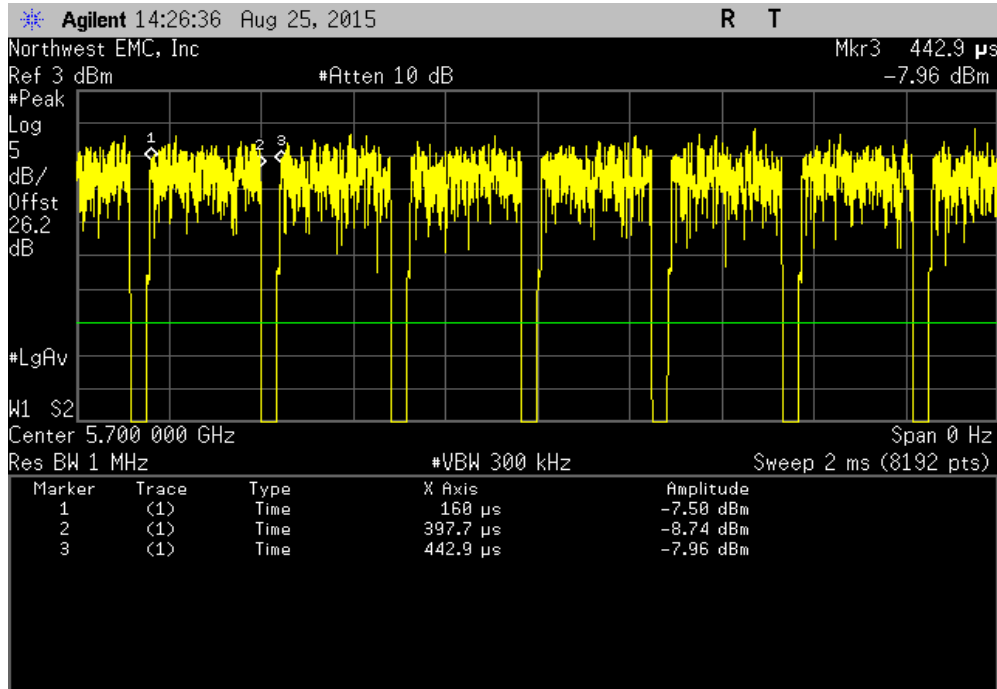


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

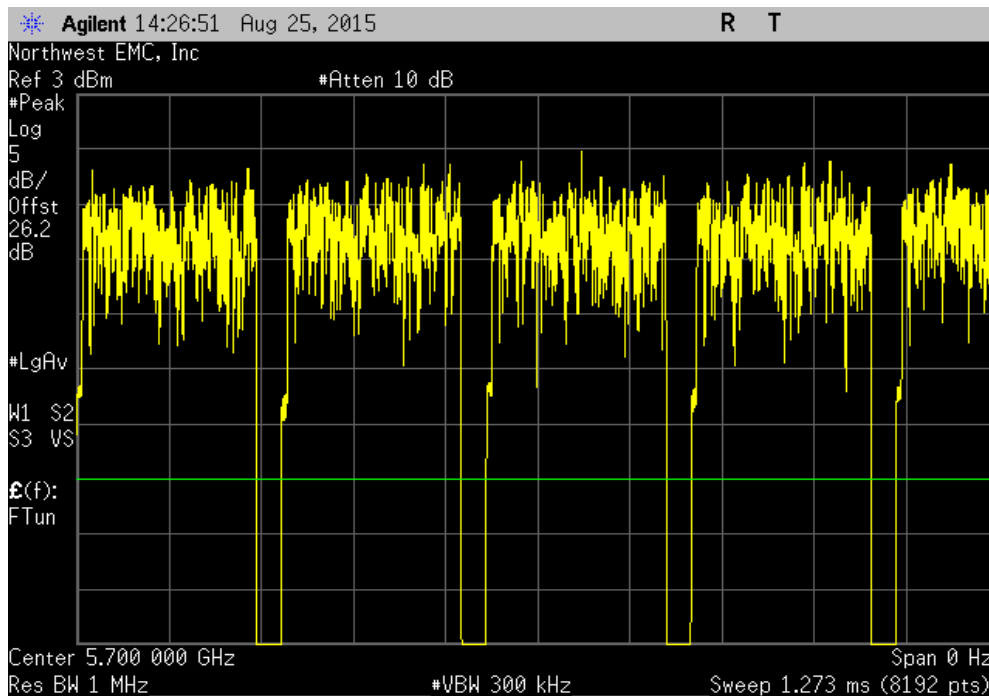


DUTY CYCLE

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
237.77 us	282.956 us	1	84	N/A	N/A	

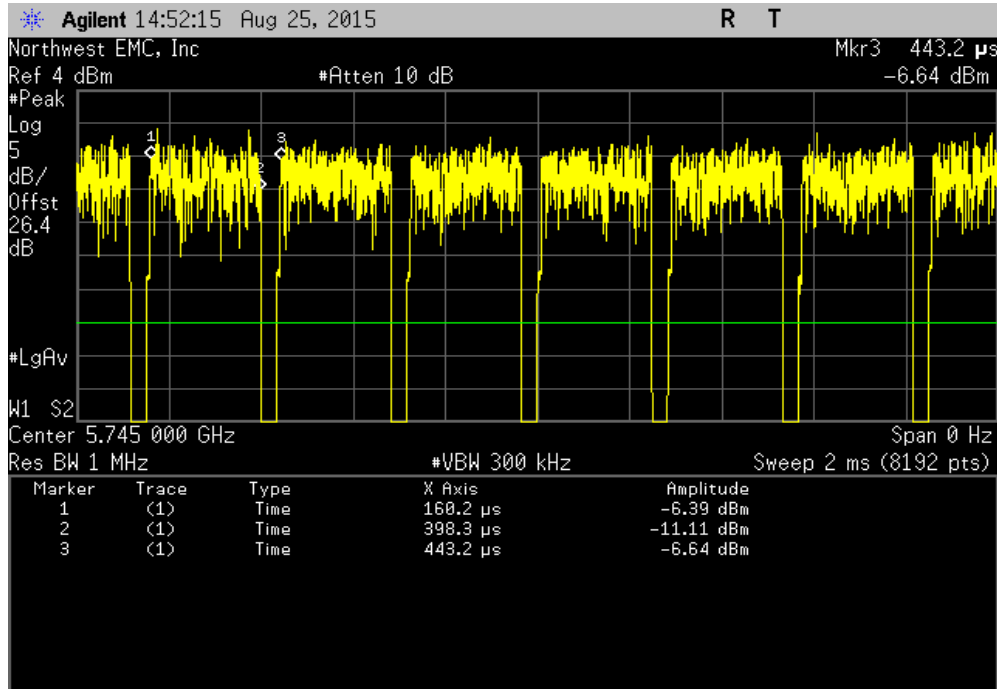


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

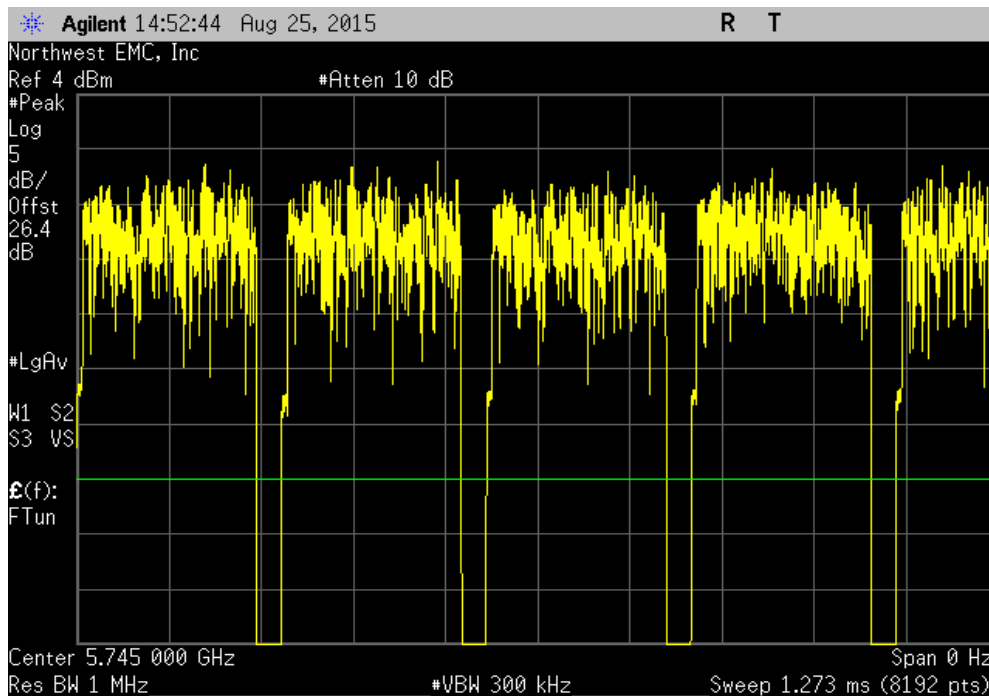


DUTY CYCLE

802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	238.114 us	283 us	1	84.1	N/A	N/A

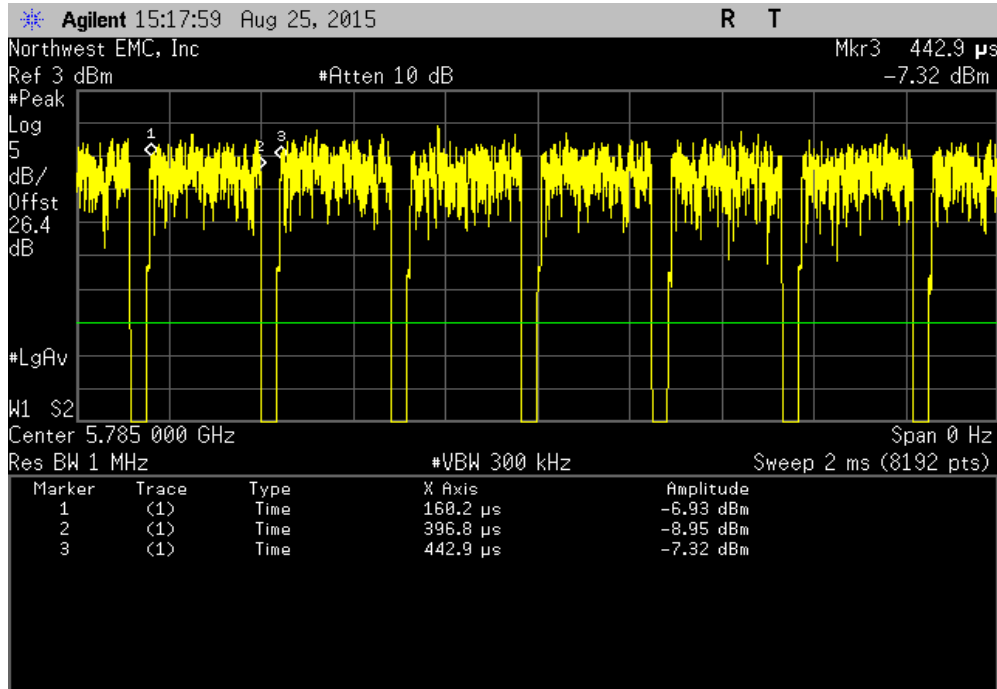


802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

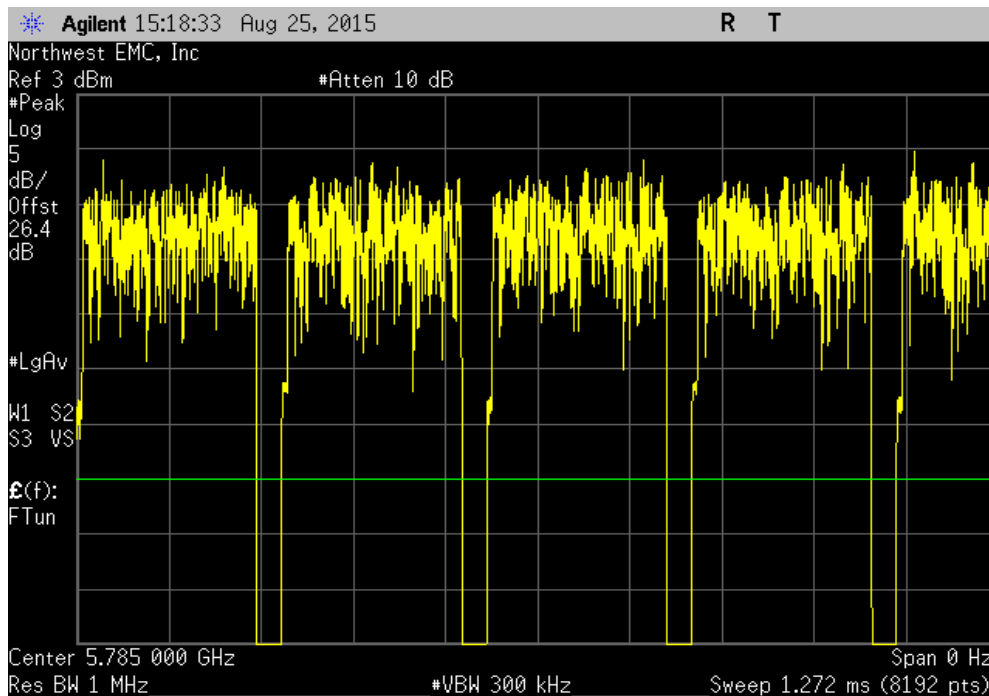


DUTY CYCLE

802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
236.593 us	282.756 us	1	83.7	N/A	N/A	

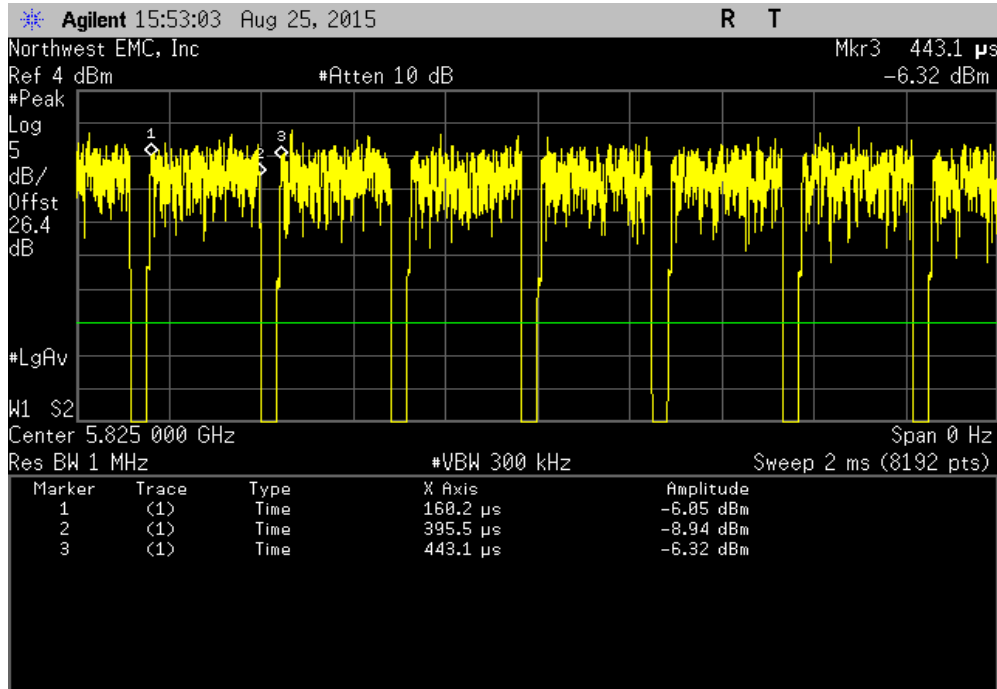


802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



DUTY CYCLE

802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
235.372 us	282.956 us	1	83.2	N/A	N/A	

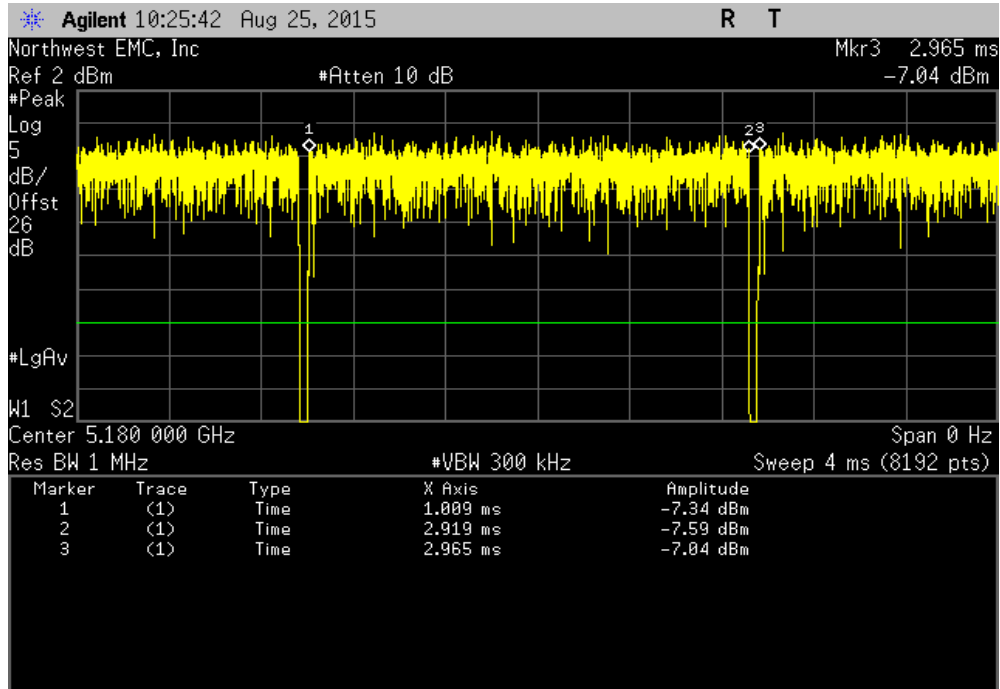


802.11(a) 54 Mbps, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

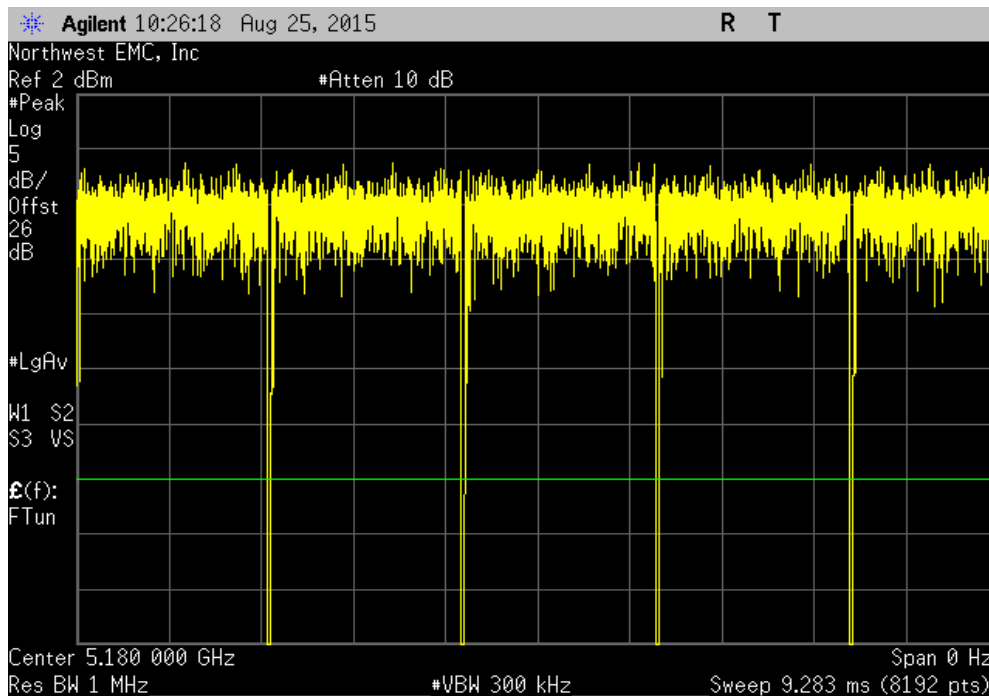


DUTY CYCLE

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.909 ms	1.956 ms	1	97.6	N/A	N/A

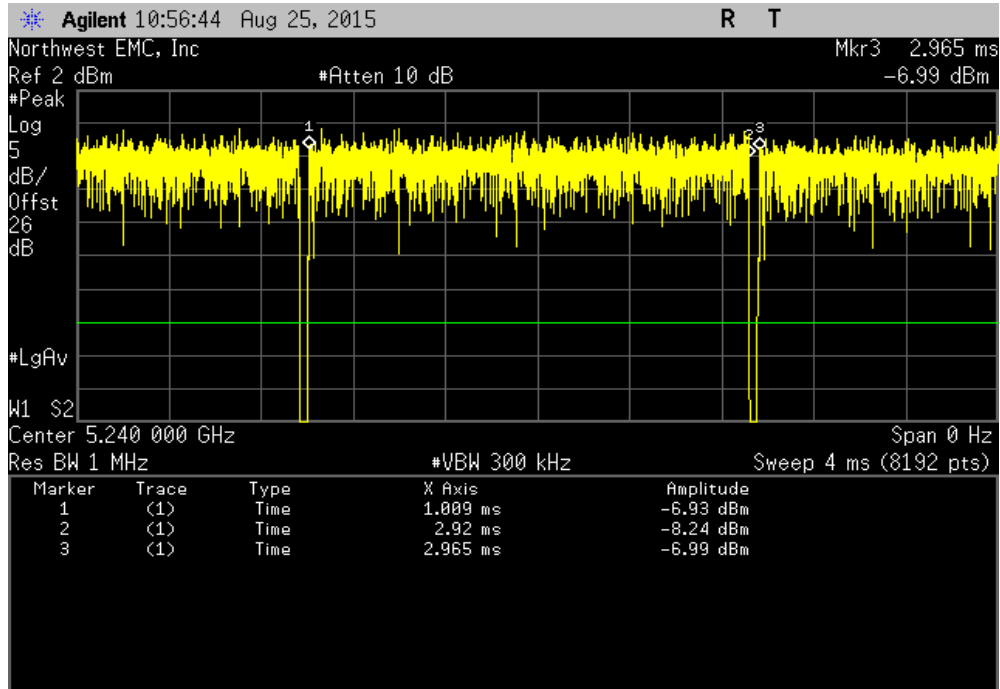


802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

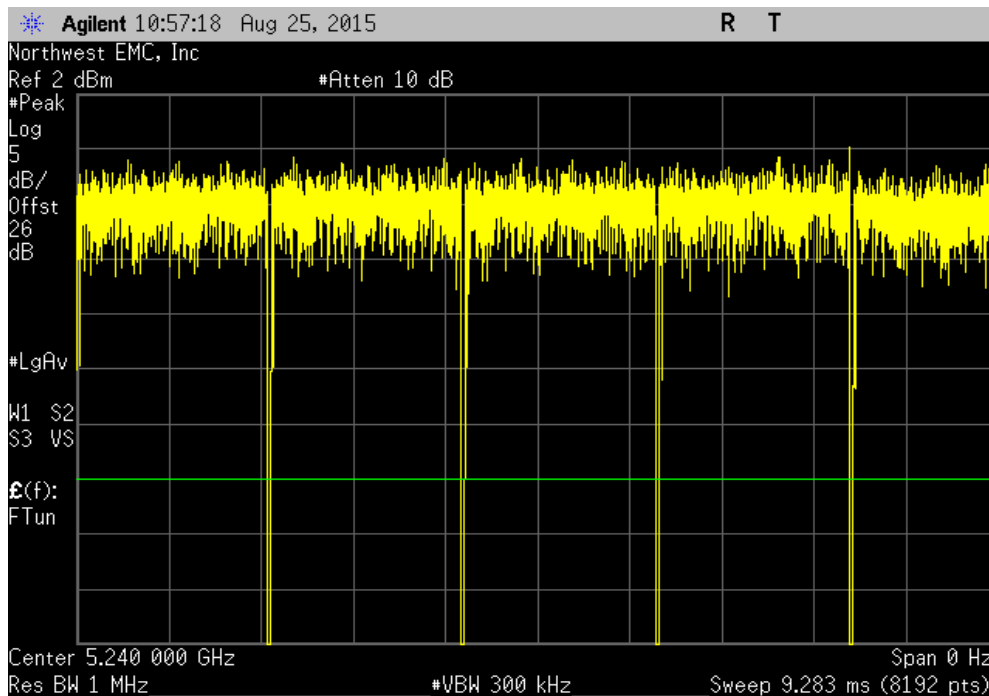


DUTY CYCLE

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.91 ms	1.956 ms	1	97.7	N/A	N/A

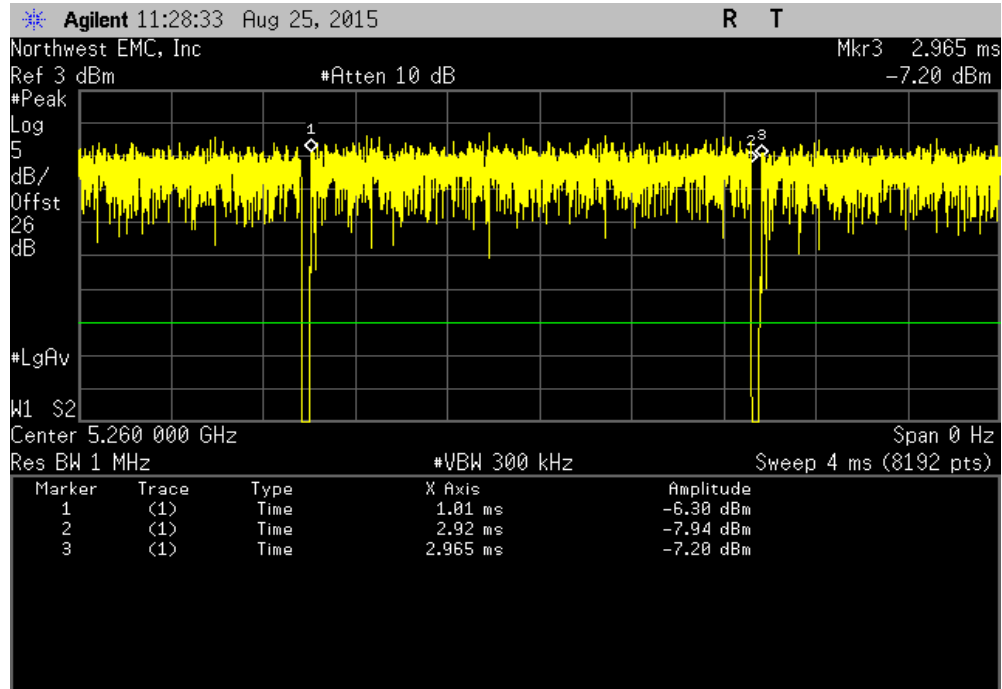


802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

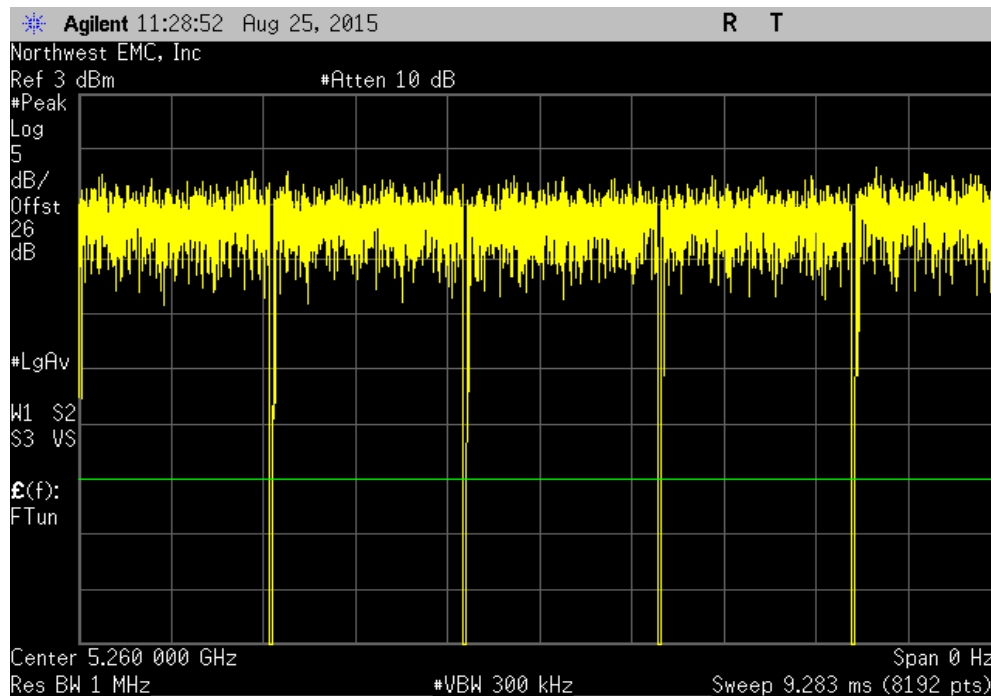


DUTY CYCLE

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.91 ms	1.955 ms	1	97.7	N/A	N/A

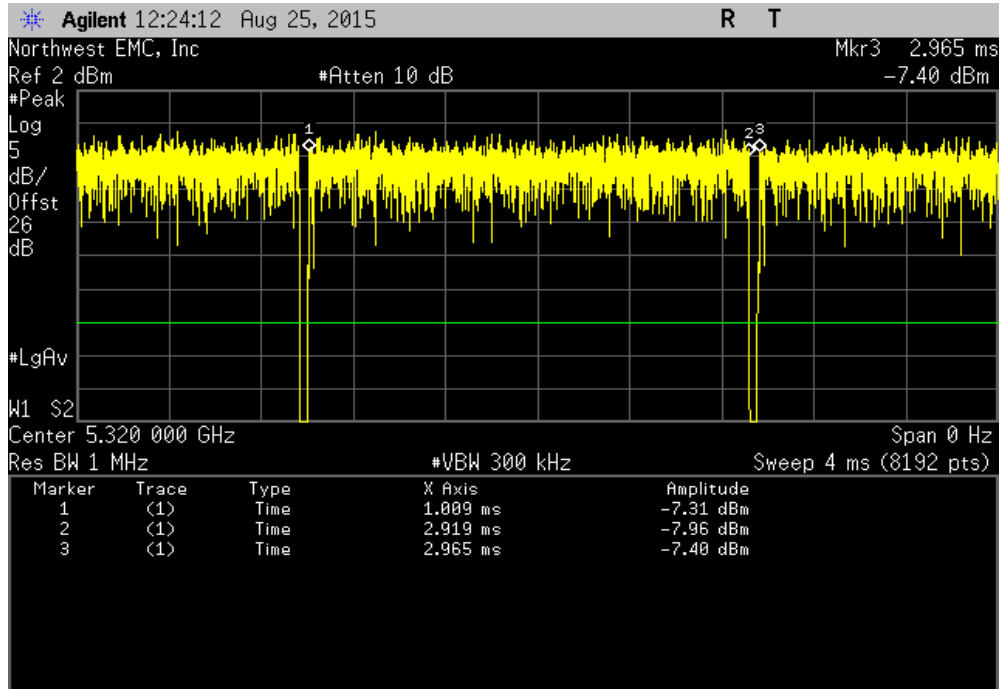


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

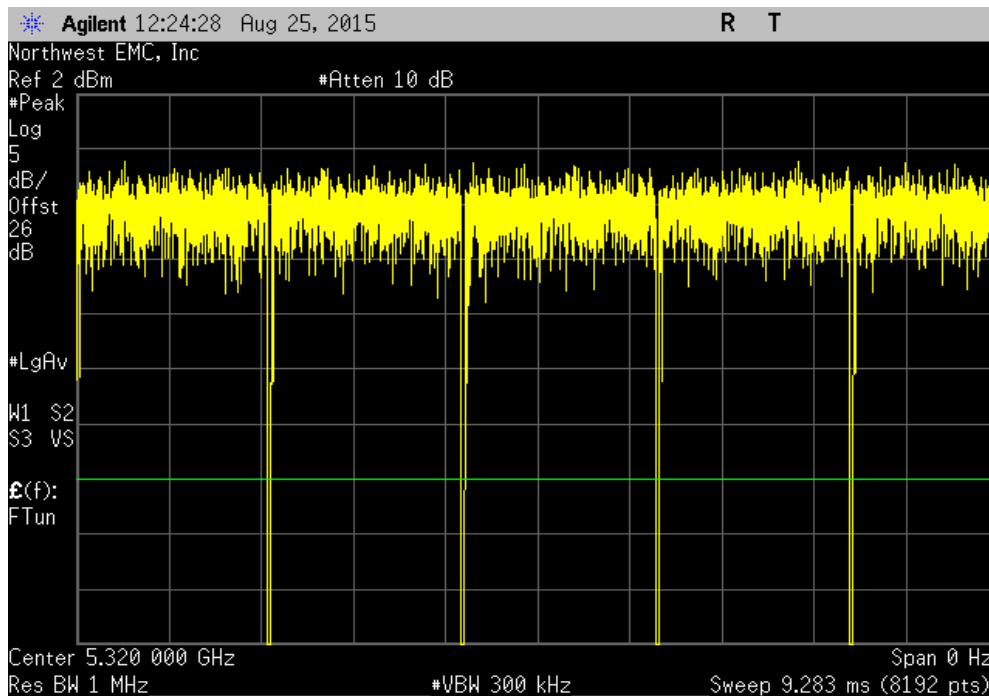


DUTY CYCLE

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.91 ms	1.956 ms	1	97.7	N/A	N/A

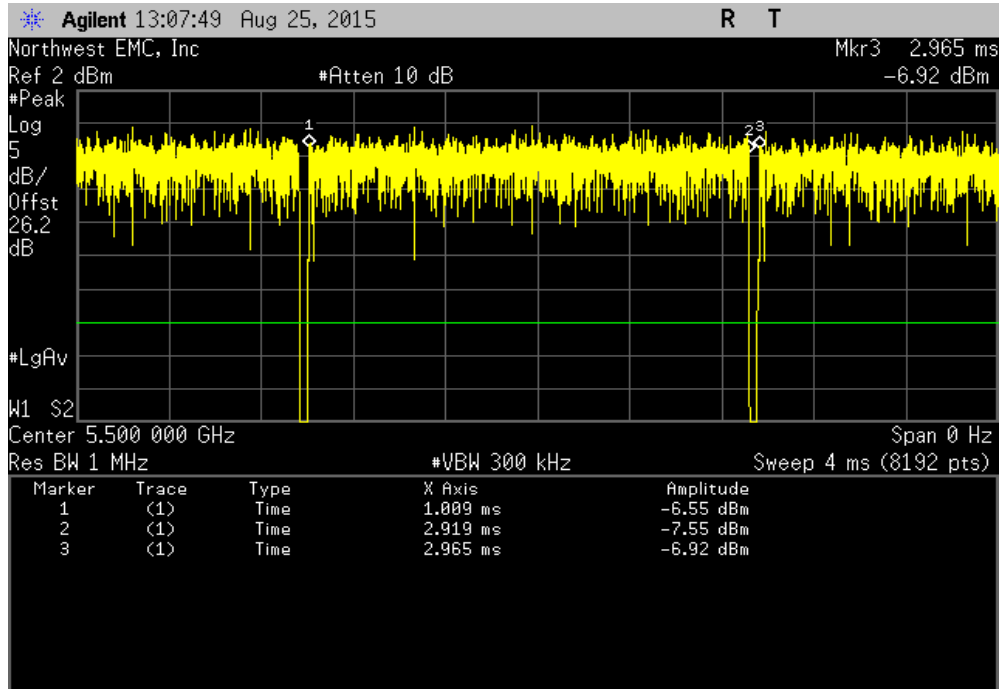


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

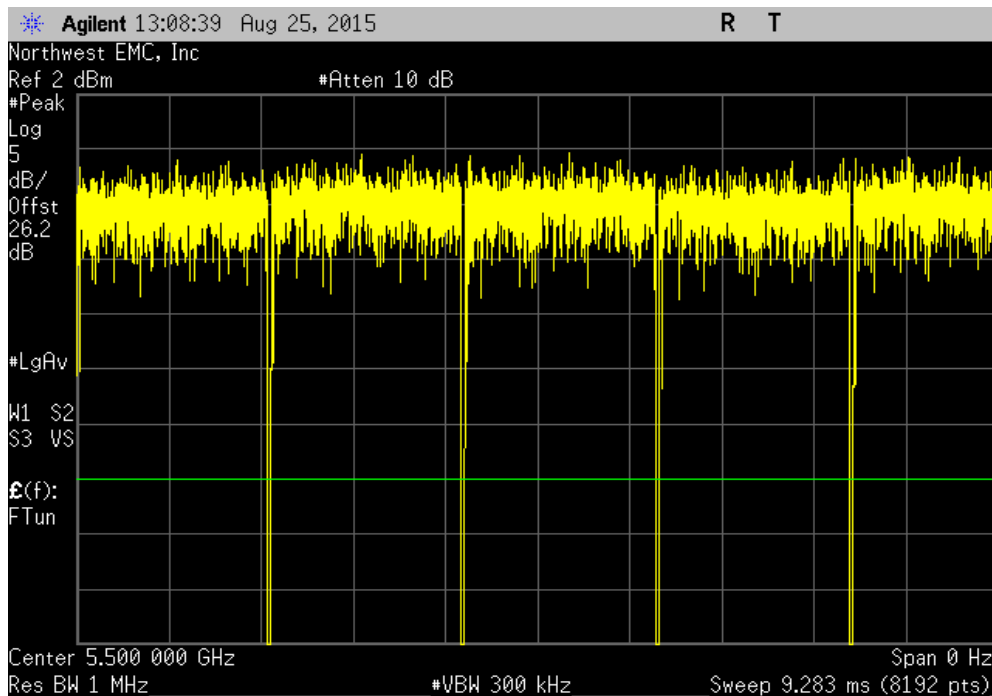


DUTY CYCLE

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.91 ms	1.955 ms	1	97.7	N/A	N/A	

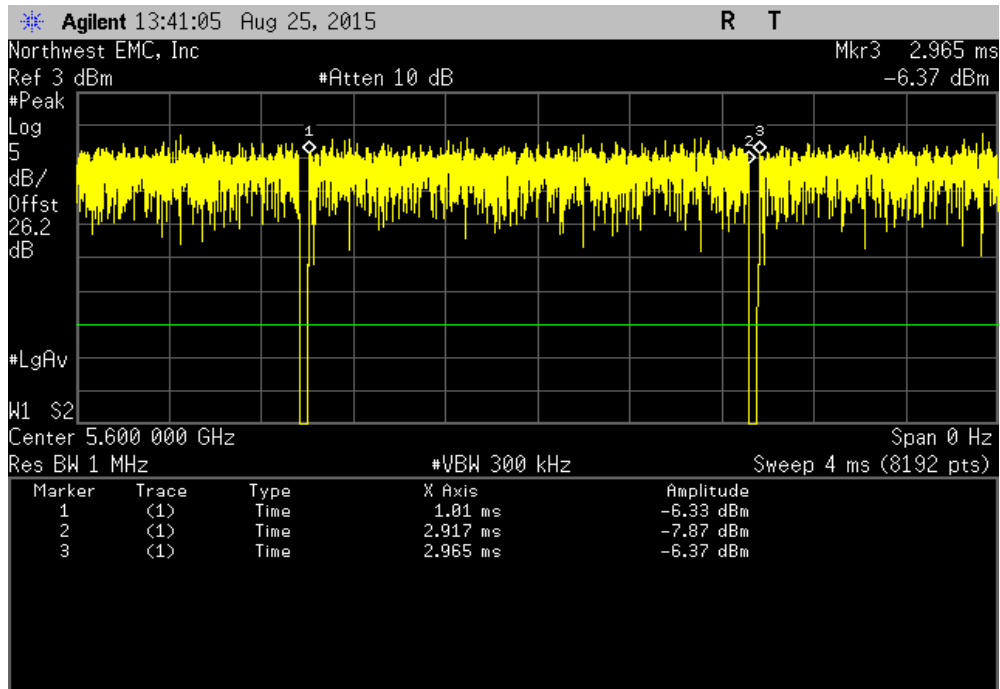


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

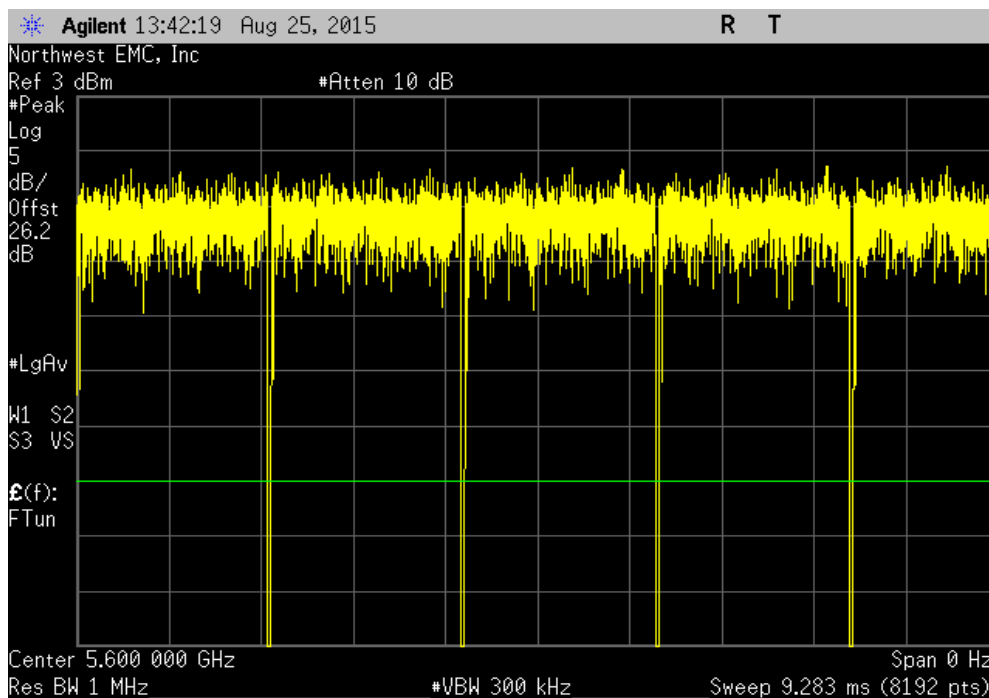


DUTY CYCLE

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.907 ms	1.955 ms	1	97.6	N/A	N/A

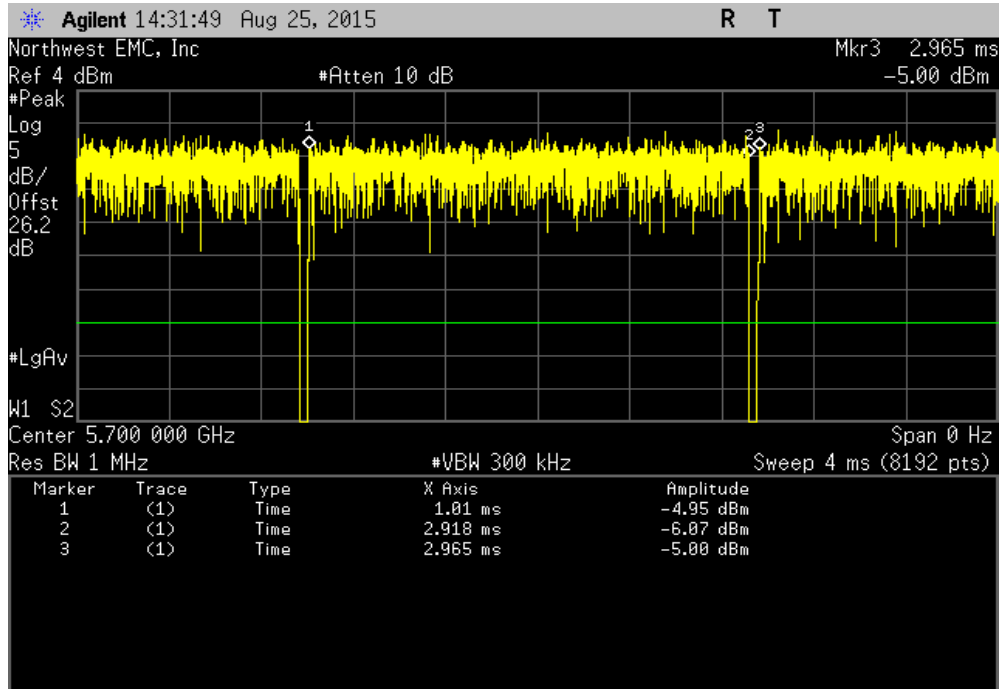


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

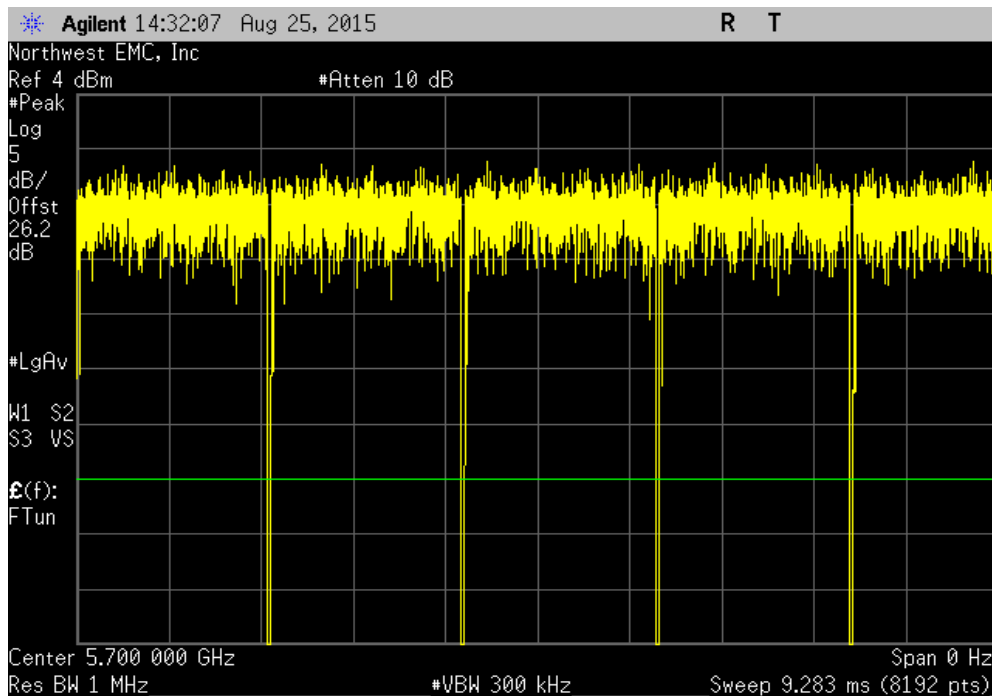


DUTY CYCLE

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.909 ms	1.955 ms	1	97.6	N/A	N/A

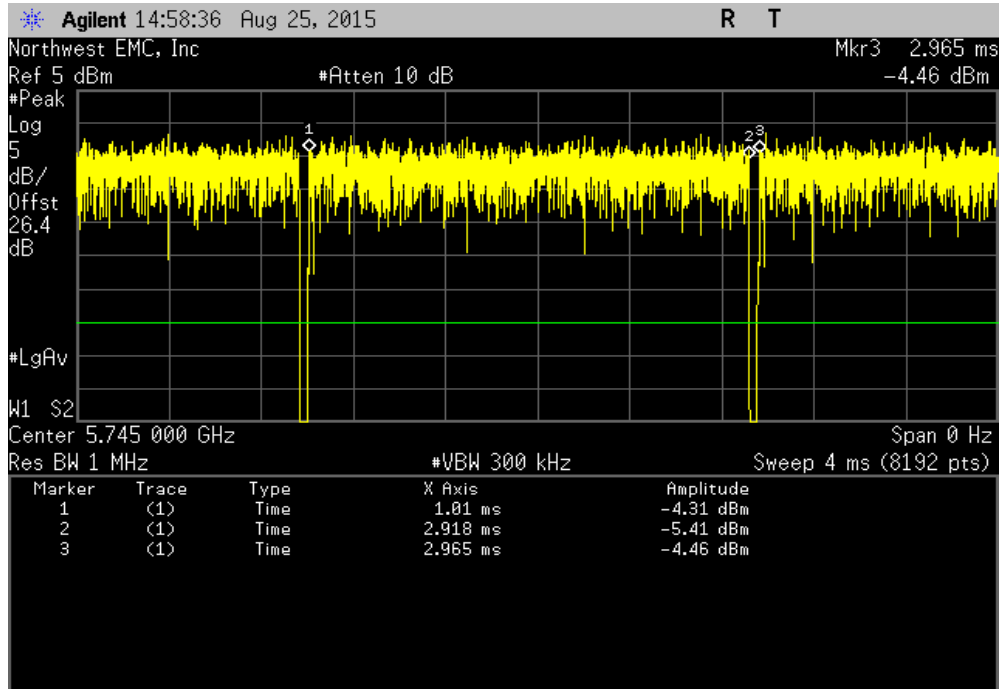


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

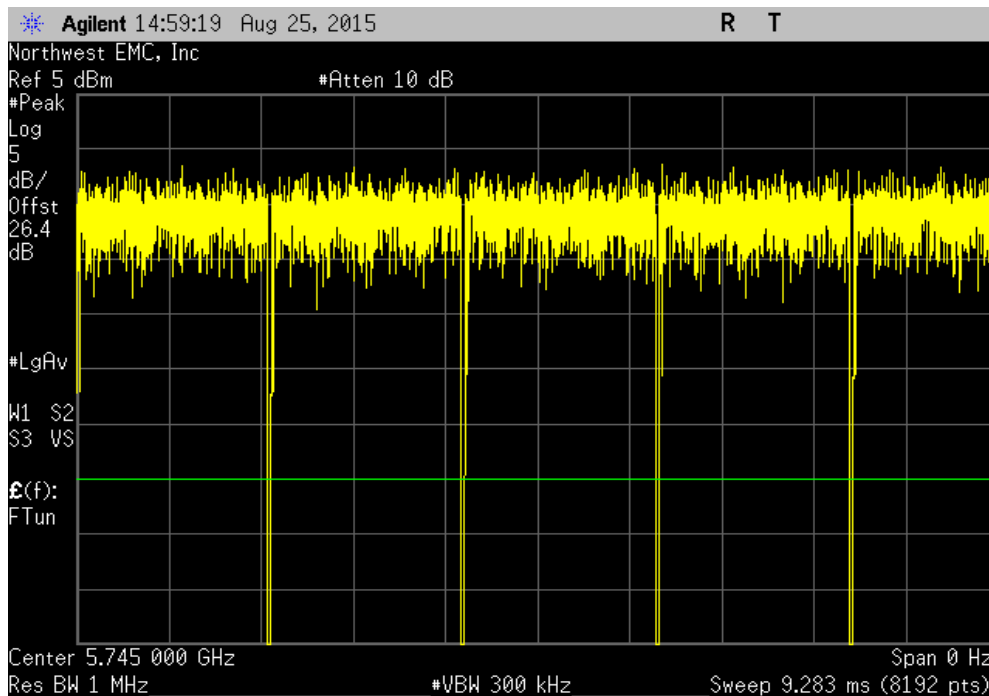


DUTY CYCLE

802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.909 ms	1.955 ms	1	97.6	N/A	N/A

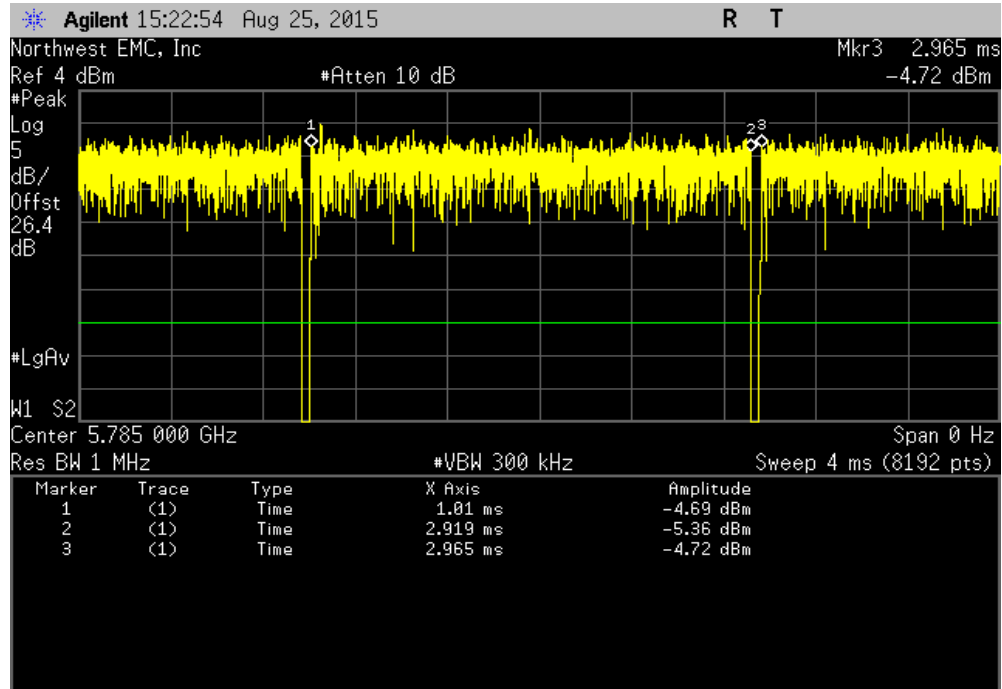


802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 149, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

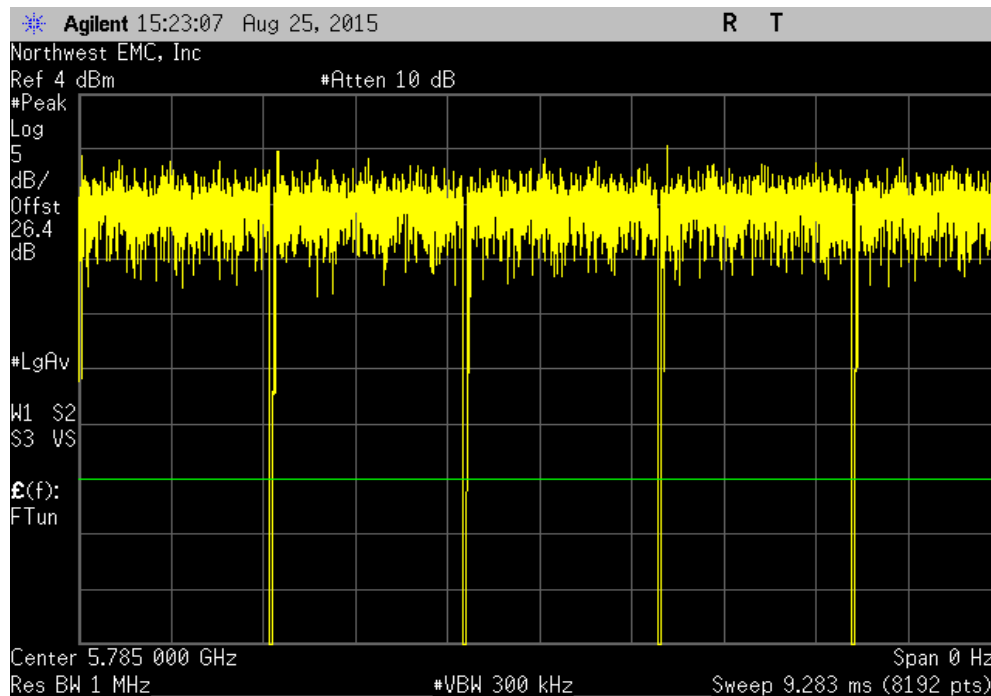


DUTY CYCLE

802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.909 ms	1.955 ms	1	97.6	N/A	N/A	

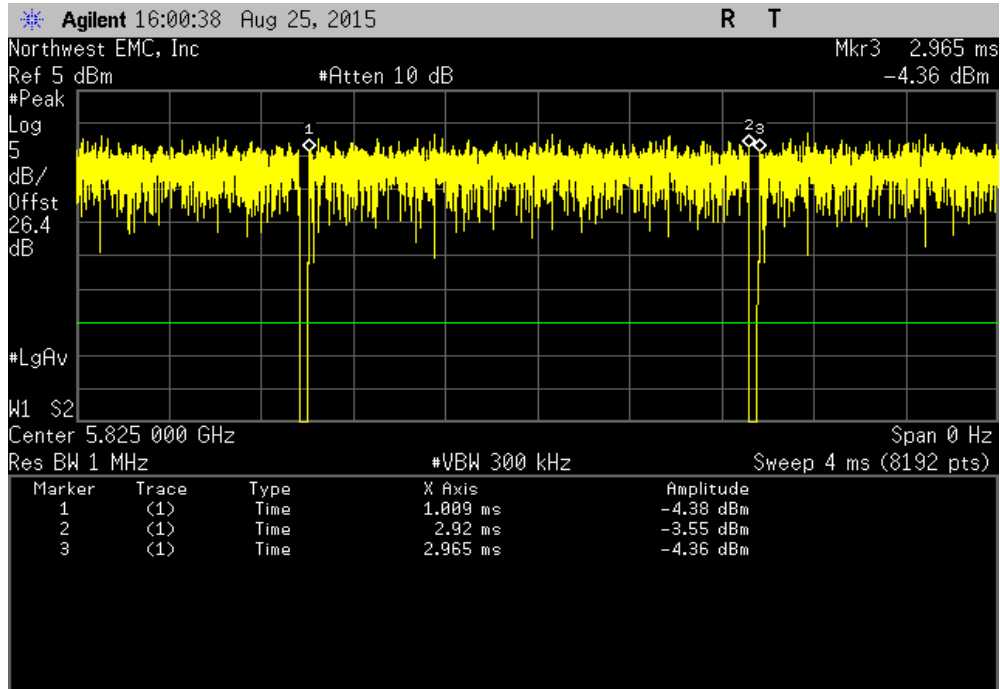


802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

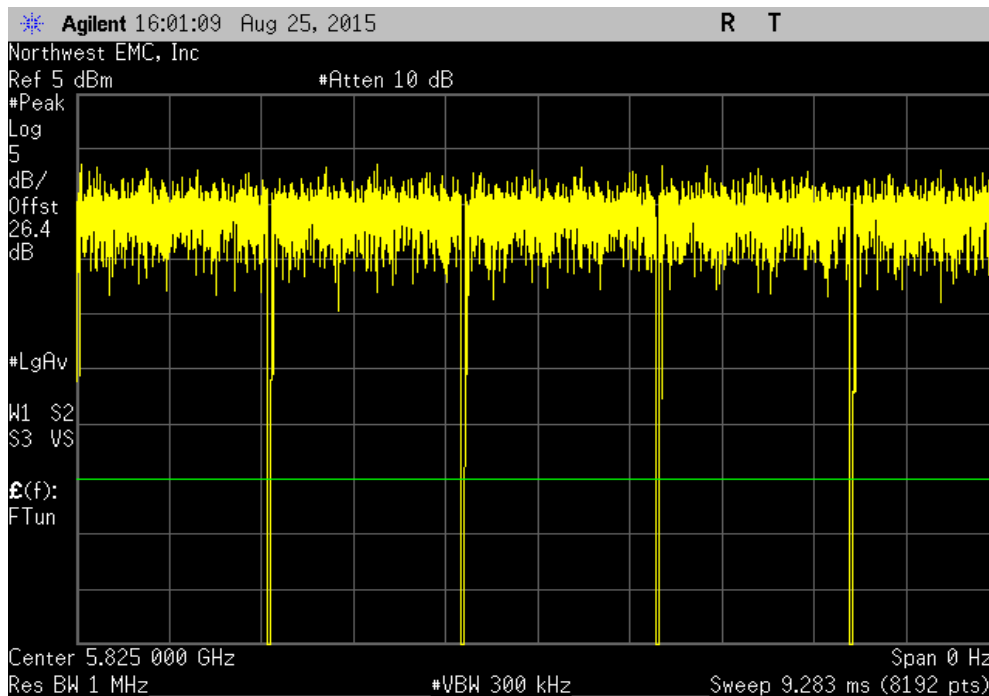


DUTY CYCLE

802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.91 ms	1.955 ms	1	97.7	N/A	N/A	

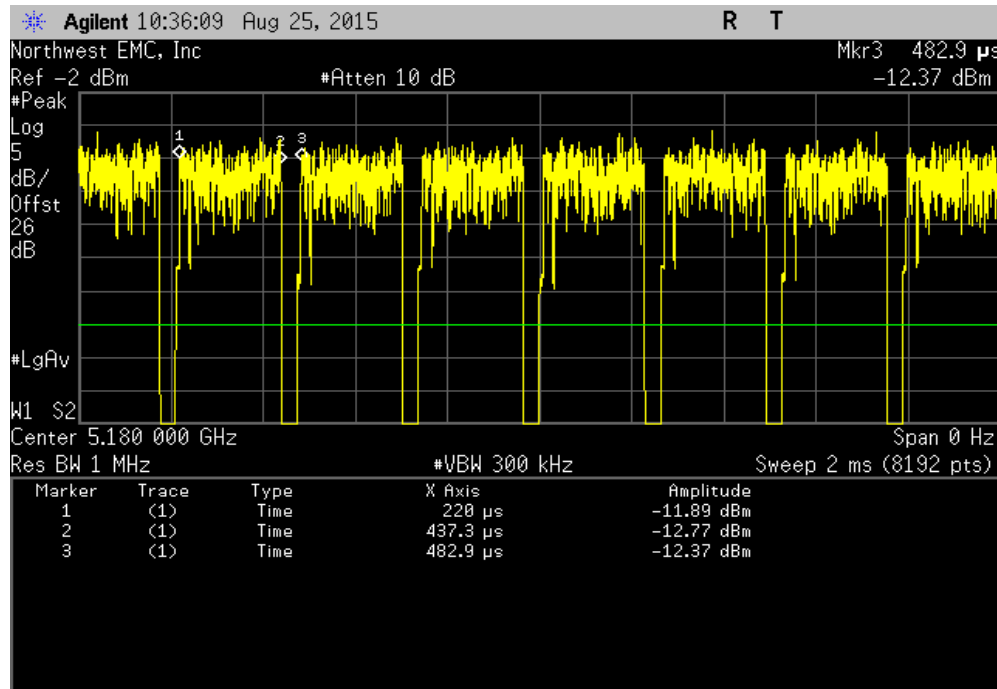


802.11(n) MCS0, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

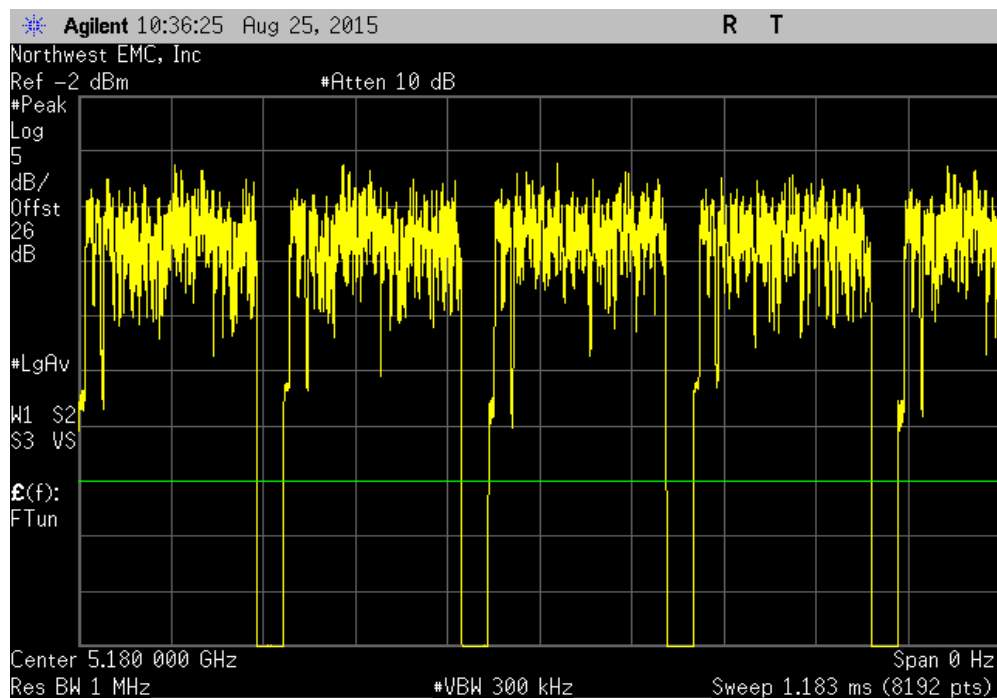


DUTY CYCLE

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
217.382 us	262.956 us	1	82.7	N/A	N/A	

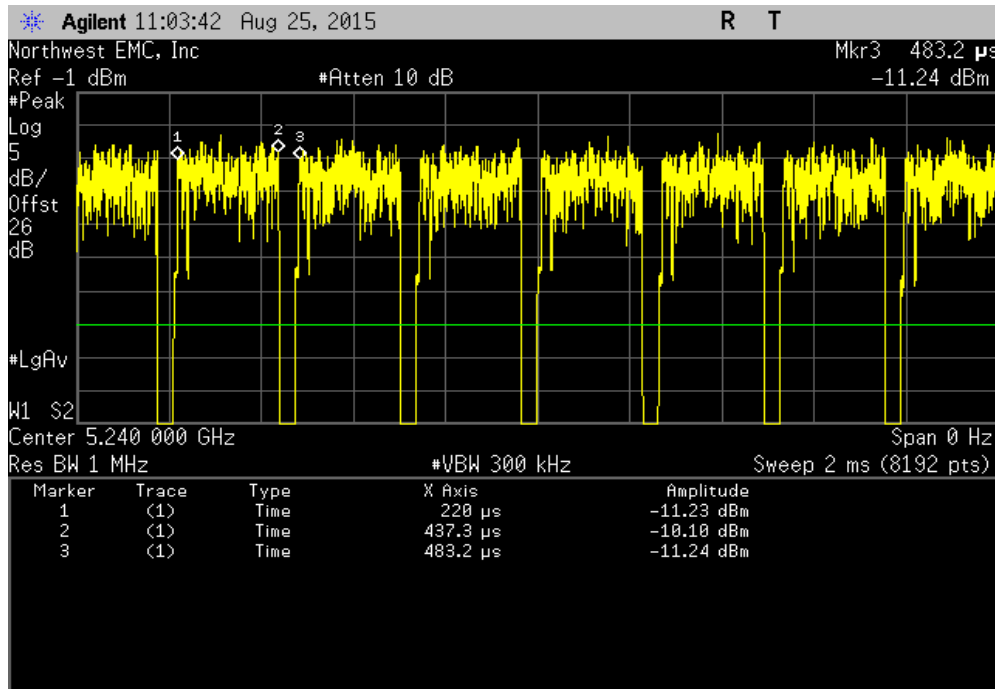


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

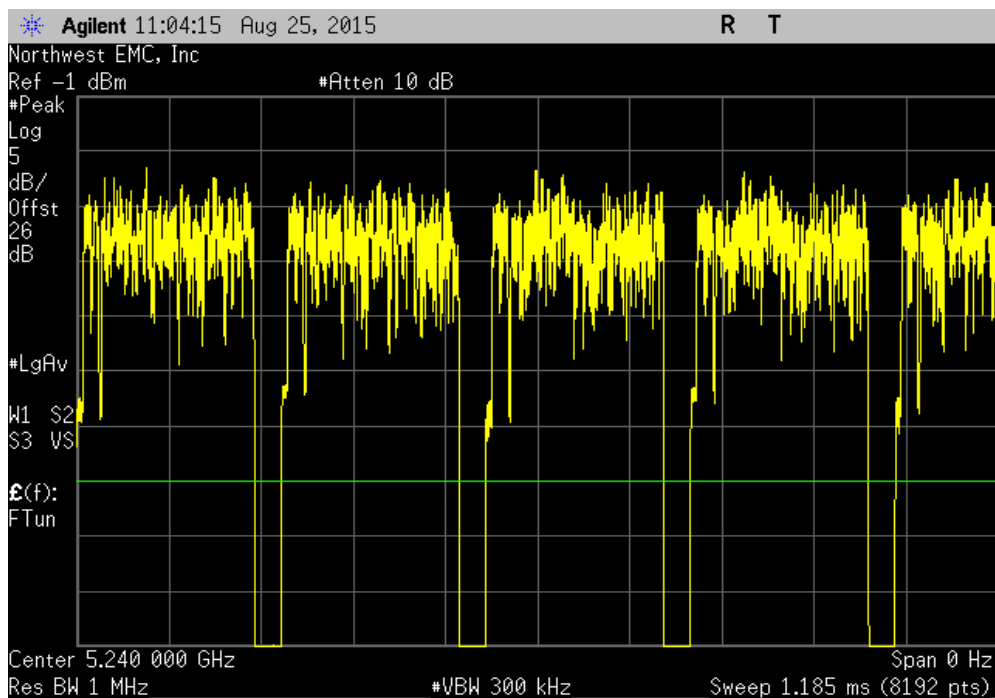


DUTY CYCLE

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
217.382 us	263.244 us	1	82.6	N/A	N/A	

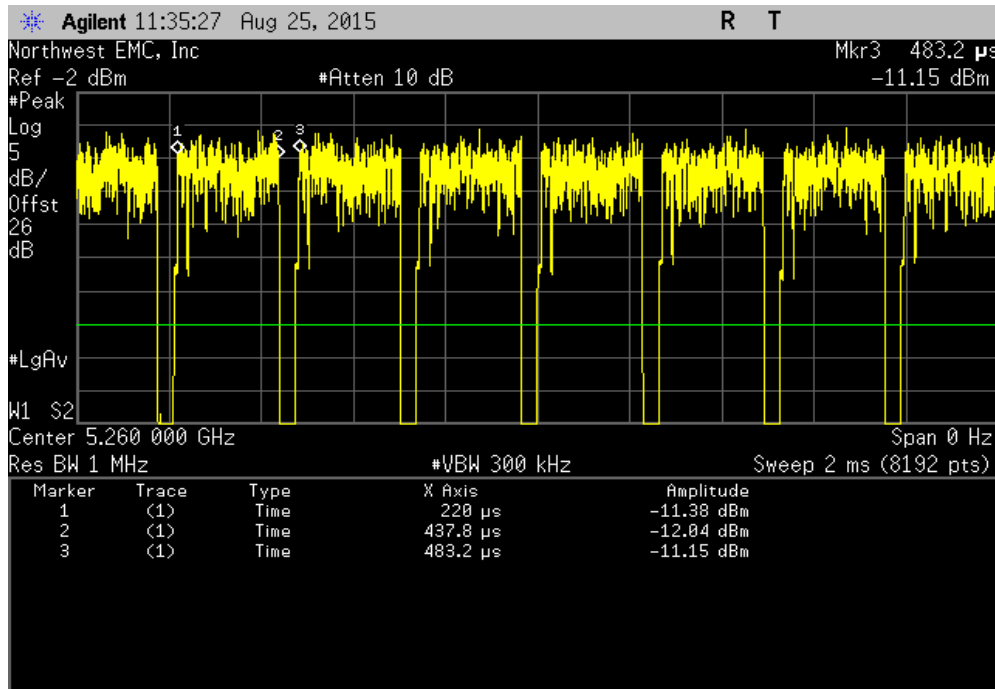


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

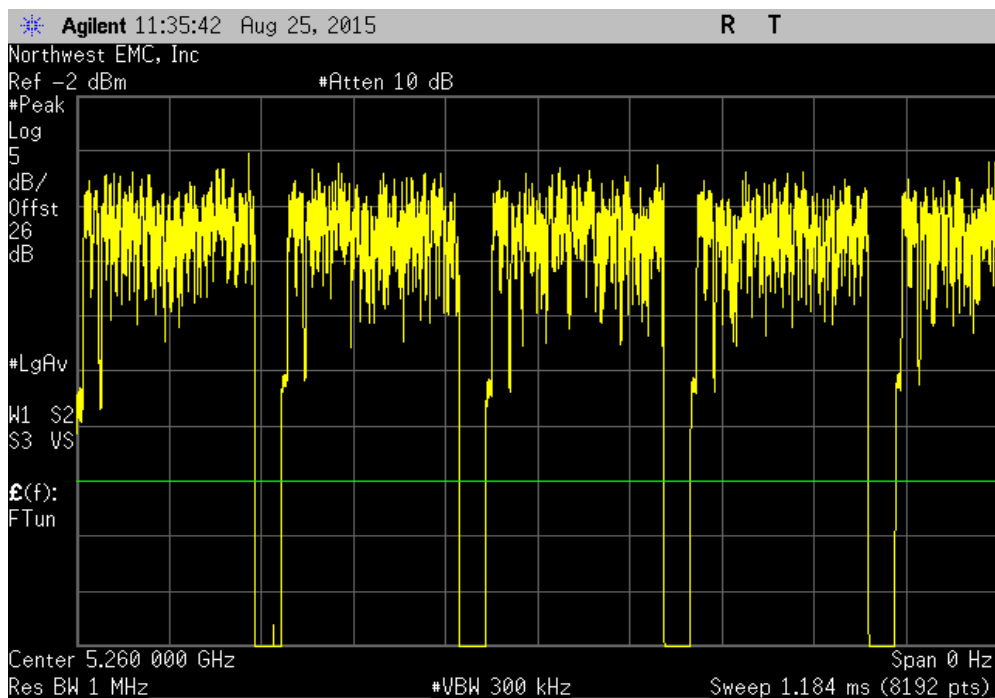


DUTY CYCLE

802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	217.87 us	263.2 us	1	82.8	N/A	N/A

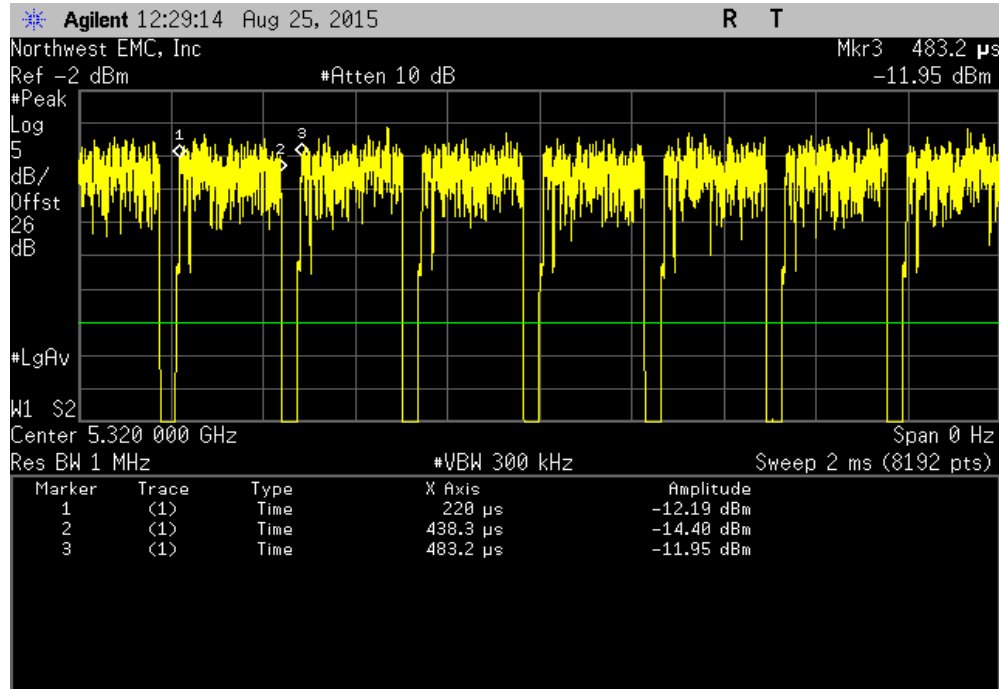


802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A

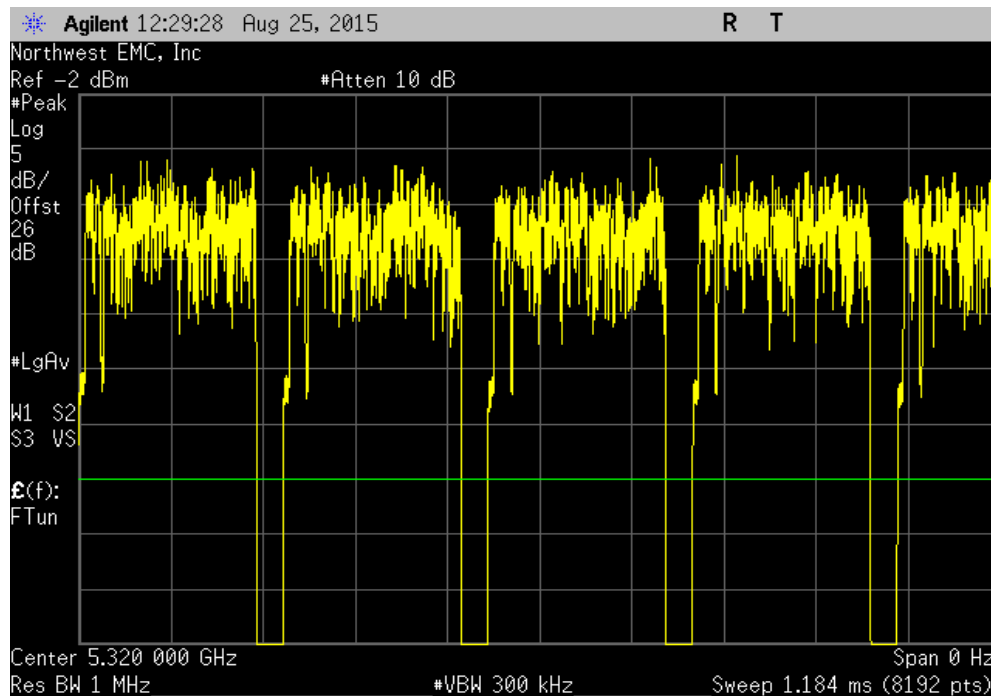


DUTY CYCLE

802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
218.314 us	263.2 us	1	82.9	N/A	N/A	

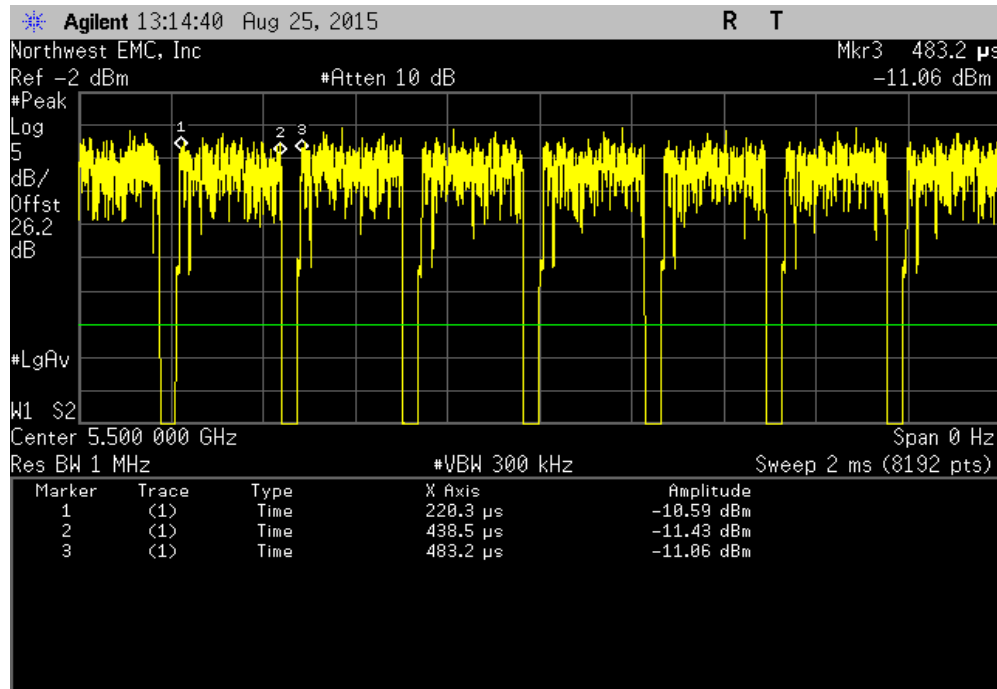


802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

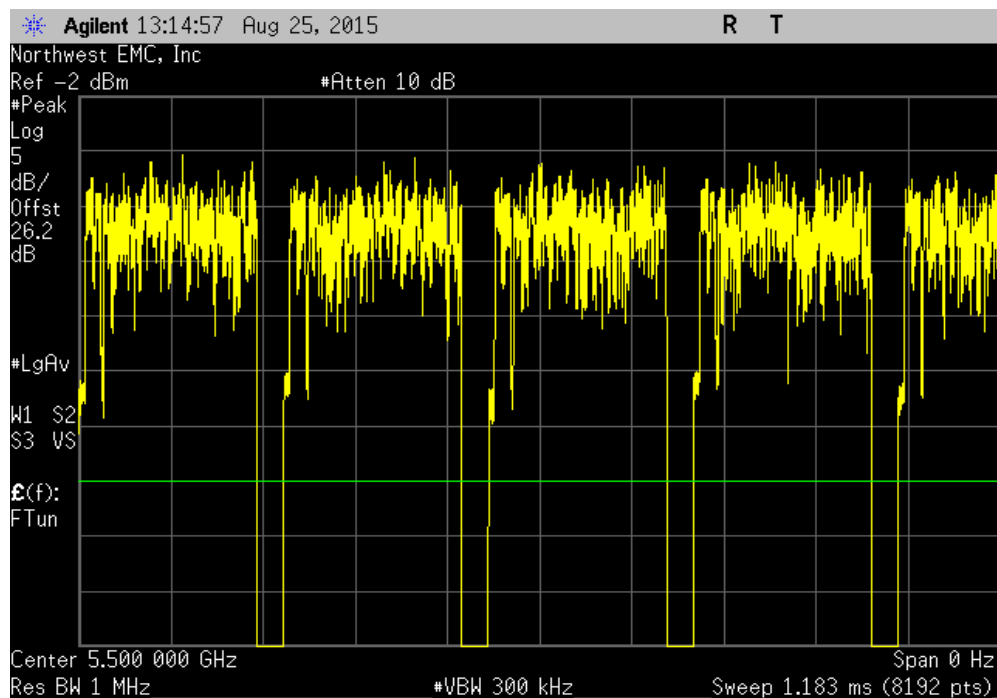


DUTY CYCLE

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
218.258 us	262.9 us	1	83	N/A	N/A	

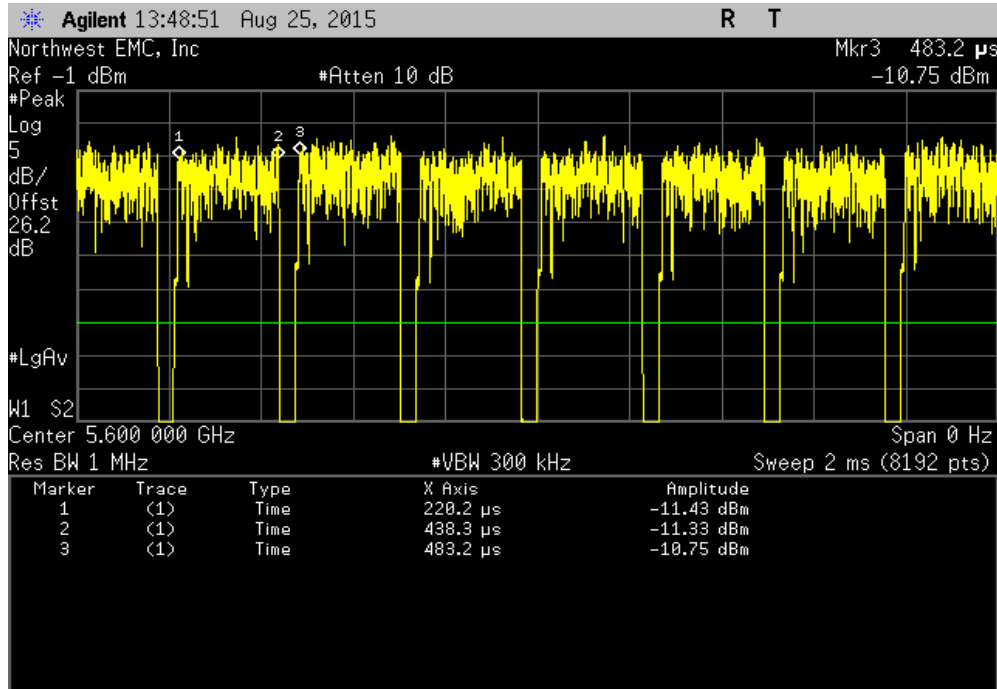


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

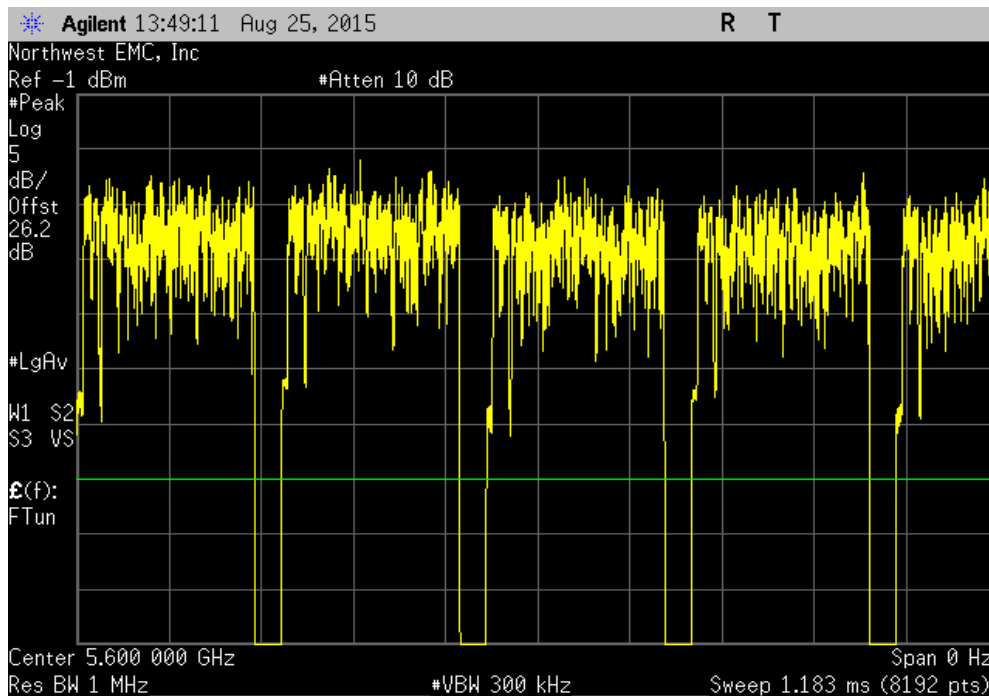


DUTY CYCLE

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
218.07 us	262.956 us	1	82.9	N/A	N/A	

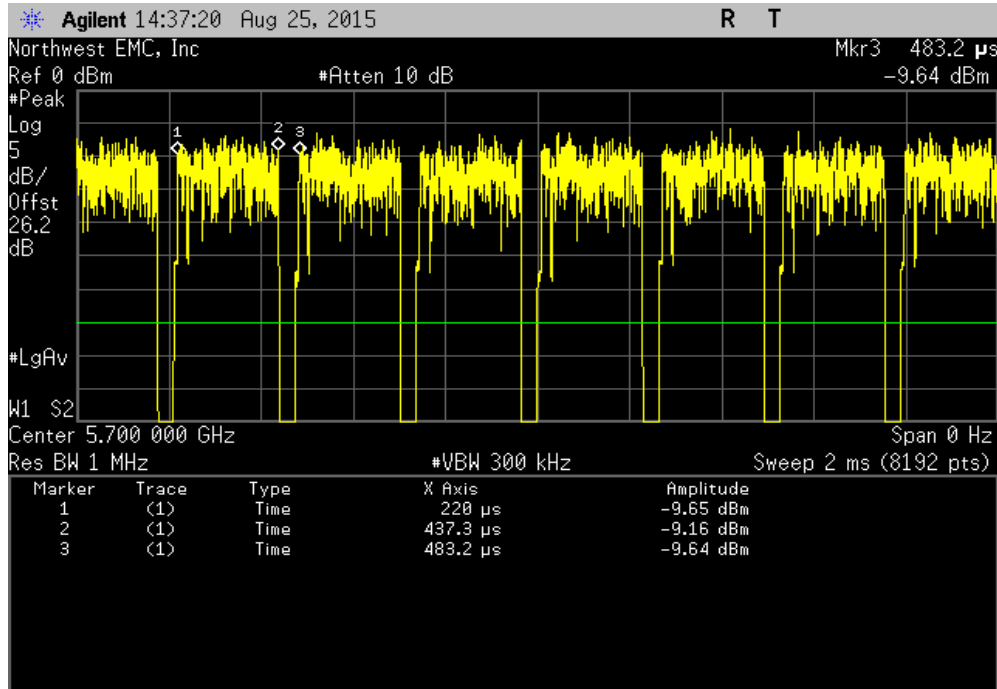


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 120, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

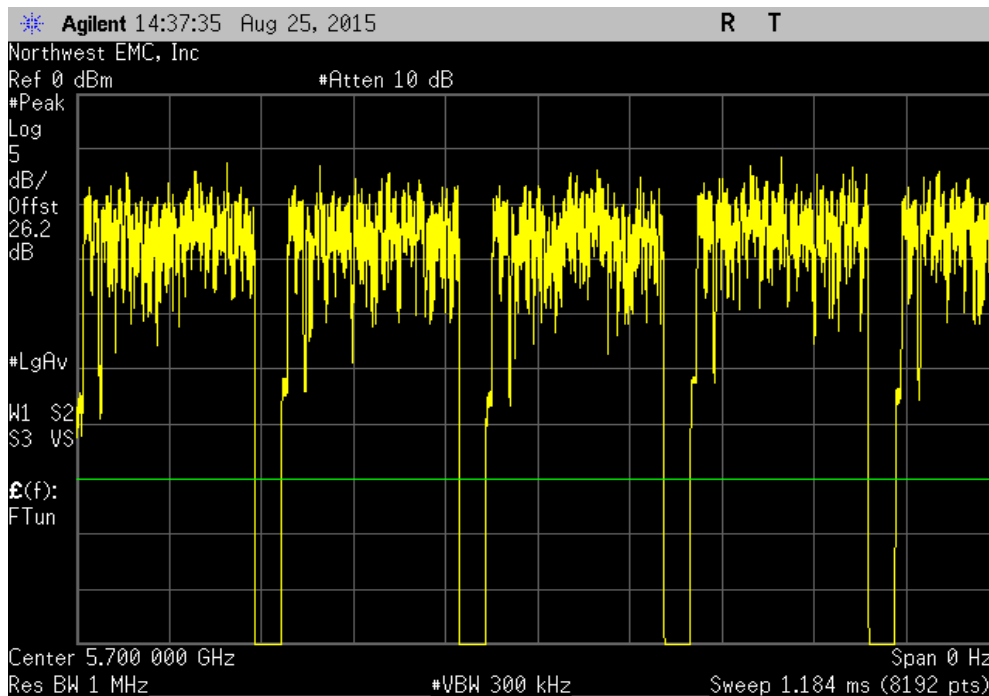


DUTY CYCLE

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
217.382 us	263.2 us	1	82.6	N/A	N/A	

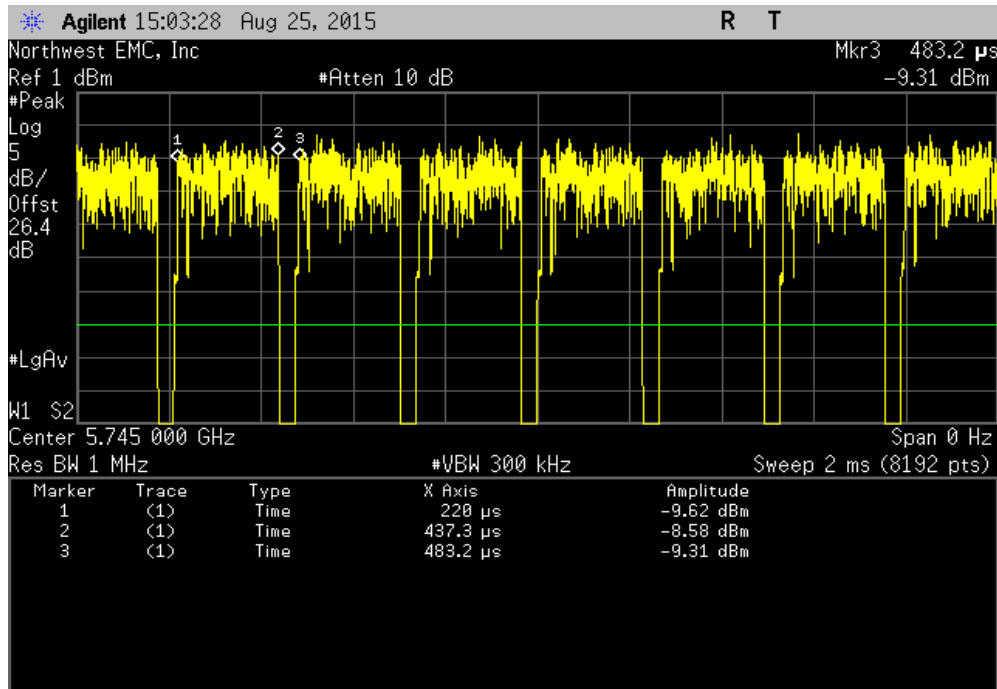


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

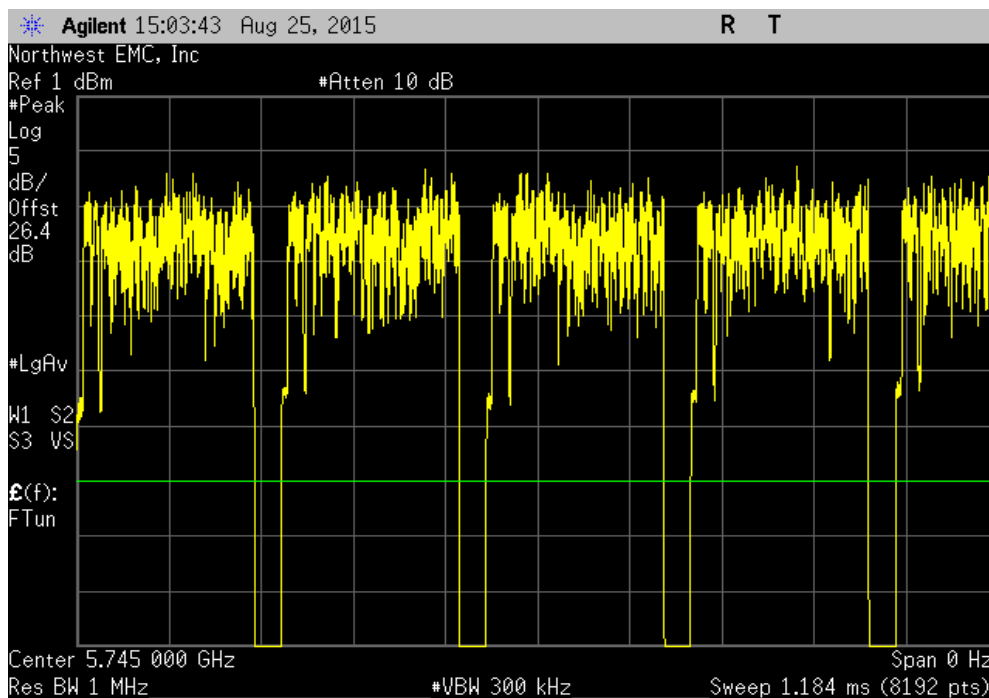


DUTY CYCLE

802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
217.326 us	263.144 us	1	82.6	N/A	N/A	

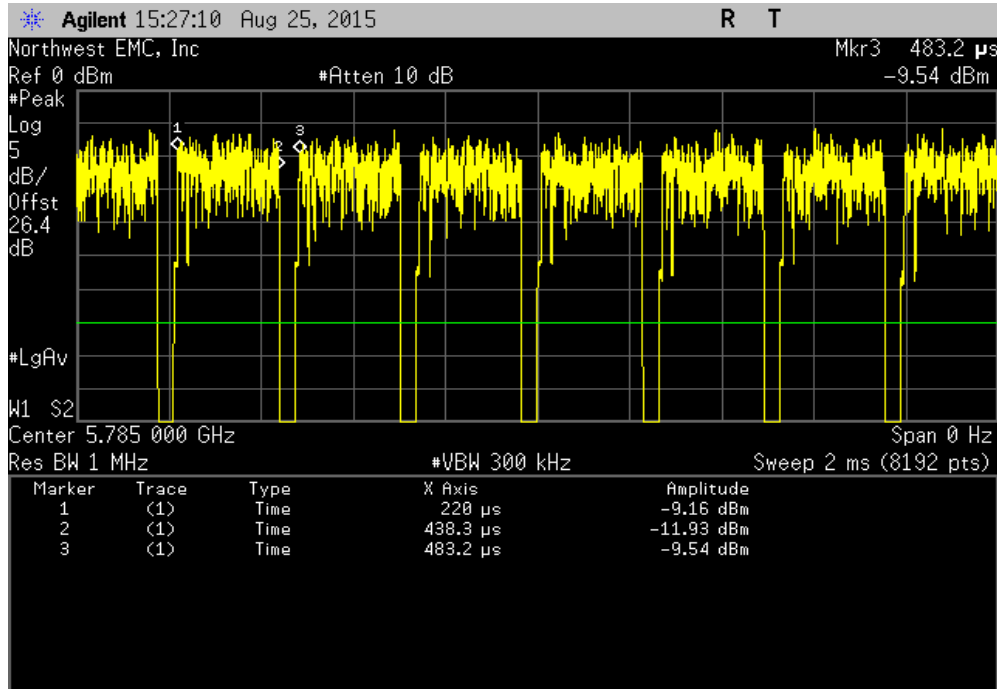


802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 149, Low Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

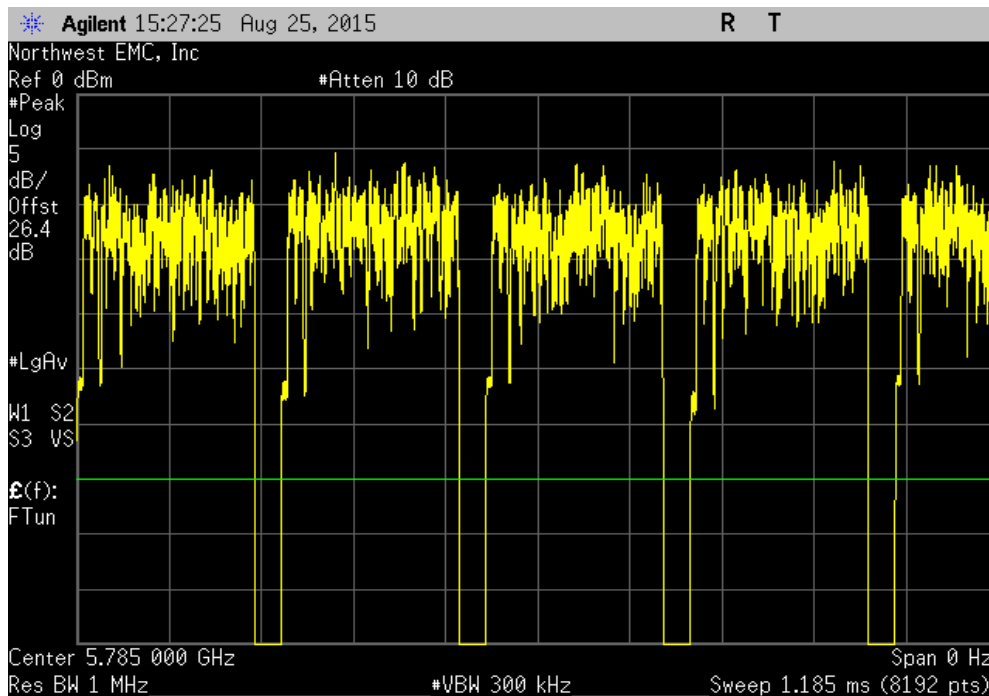


DUTY CYCLE

802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
218.358 us	263.244 us	1	82.9	N/A	N/A	

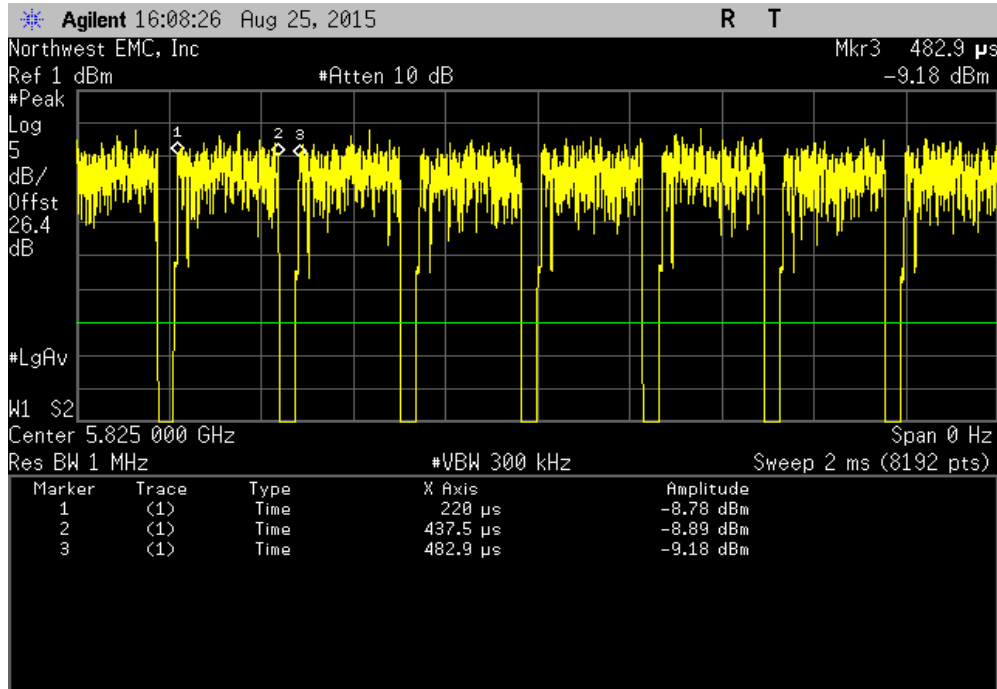


802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 157, Mid Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



DUTY CYCLE

802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
217.57 us	262.956 us	1	82.7	N/A	N/A	



802.11(n) MCS7, 5725 - 5850 MHz Band, Channel 165, High Channel						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

