



Honeywell, Automation and Control Solutions

RTH9580WF01

FCC 15.247:2014

Report # HNYW0108.2



NVLAP Lab Code: 200881-0

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

Last Date of Test: August 25, 2014
Honeywell, Automation and Control Solutions
Model: RTH9580WF01

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2014	ANSI C63.10:2009

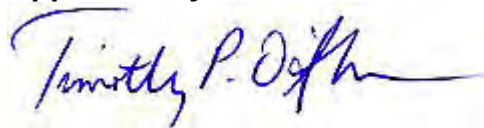
Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required.
6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	
6.7	Band Edge Compliance	No	N/A	Not required.
6.7	Spurious Conducted Emissions	No	N/A	Not required.
6.9.1	Occupied Bandwidth	Yes	Pass	
6.10.2	Output Power	Yes	Pass	
6.11.2	Power Spectral Density	No	N/A	Not required.
7.5	Duty Cycle	Yes	N/A	Characterization of EUT operation.

Deviations From Test Standards

None

Approved By:



Tim O'Shea, 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.

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

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 Guide 65 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

OFTA – Recognized by OFTA 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/>

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.

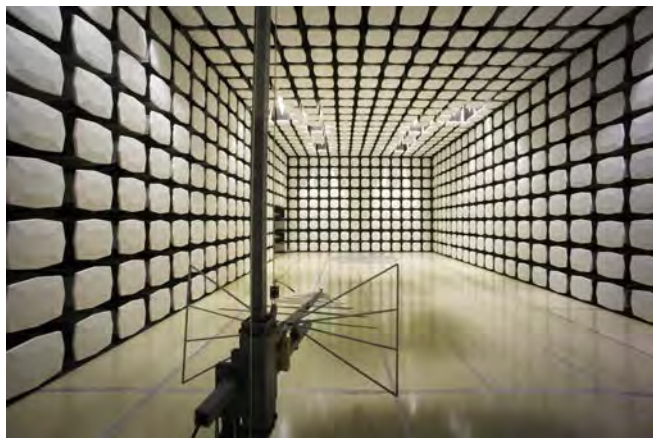
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement 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 16-4-1 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)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	4.00	-4.00
AC Powerline Conducted Emissions (dB)	2.70	-2.70



Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs NC01-05, SU02, SU07 19201 120 th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834F-1
NVLAP				
NVLAP Lab Code: 200630-0	NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200629-0



Client and Equipment Under Test (EUT) Information

Company Name:	Honeywell, Automation and Control Solutions
Address:	1985 Douglas Drive North
City, State, Zip:	Golden Valley, MN 55422
Test Requested By:	Norm Behnke
Model:	RTH9580WF01
First Date of Test:	August 21, 2014
Last Date of Test:	August 25, 2014
Receipt Date of Samples:	August 21, 2014
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

The RTH9580WF01 is a Wi-Fi enabled thermostat operating in the 2.4GHz ISM band utilizing the IEEE 802.11b/g/n SISO protocol with standard data rates and modulations. The radio can operate on either of 2 antenna ports utilizing identical surface mount antennas. This thermostat is designed to control various HVAC equipment. While this thermostat is intended to be used in mostly residential applications, it can also be used in various light-commercial applications as well.

Testing Objective:

To demonstrate compliance under FCC 15.247 for operation in the 2.4 GHz band. This is to verify changes so will be a Class II Permissive Change (C2PC).

Configuration HNYW0108- 1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Thermostat	Honeywell, Automation and Control Solutions	RTH9580WF01	P16

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
AC Adapter	CUI Inc.	48A-24-500	EPA240050-S/T-SZ

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Adapter Cable	No	1.15m	No	AC Adapter	Thermostat

Configuration HNYW0108- 2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Thermostat	Honeywell, Automation and Control Solutions	RTH9580WF01	P24

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
AC Adapter	CUI Inc.	48A-24-500	EPA240050-S/T-SZ

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Adapter Cable	No	1.15m	No	AC Adapter	Thermostat

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	8/21/2014	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	8/25/2014	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	8/25/2014	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	8/25/2014	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

SPURIOUS RADIATED EMISSIONS

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

Transmitting modulated. See datasheet comments for channels, modulation types, and antennas.

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

HNYW0108 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26500 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 (mo)
MN05 1m Horn Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNO	7/22/2014	12 mo
Low Pass Filter	Micro-Tronics	LPM50004	HGK	5/15/2014	24 mo
High Pass Filter	Micro-Tronics	HPM50111	HGQ	5/15/2014	24 mo
Attenuator, 20 dB, 'SMA'	SM Electronics	SA6-20	REO	5/15/2014	12 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	9/26/2013	12 mo
MN05 Cables	N/A	18-26GHz Standard Gain Horn Cable	MNP	9/26/2013	12 mo
Antenna, Horn	ETS	3160-09	AHG	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVW	3/14/2014	12 mo
Antenna, Horn	ETS Lindgren	3160-08	AIQ	NCR	0 mo
MN05 Cables	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	3/14/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	3/14/2014	12 mo
Antenna, Horn	ETS	3160-07	AXP	NCR	0 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	3/14/2014	12 mo
Antenna, Horn	ETS	3115	AJA	6/3/2014	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/14/2014	12 mo
Antenna, Biconilog	Teseq	CBL 6141B	AYD	12/17/2013	24 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.



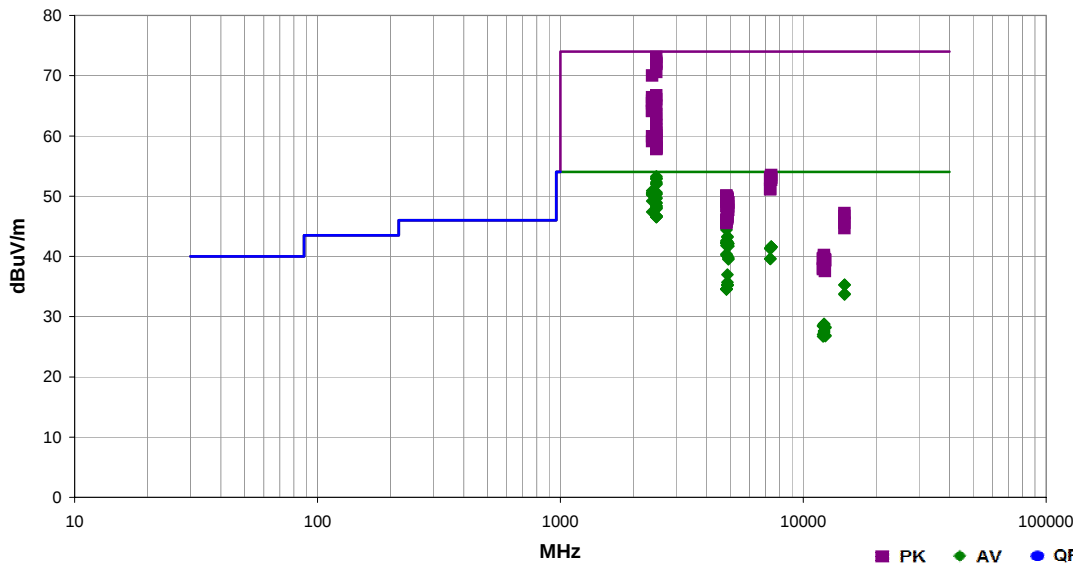
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2014.06.19
EmiR5 2014.07.09

Work Order:	HNYW0108	Date:	08/21/14		
Project:	None	Temperature:	23.7 °C		
Job Site:	MN05	Humidity:	59.6% RH		
Serial Number:	P16	Barometric Pres.:	1007.2 mbar	Tested by:	Johnathan Lee, Dustin Sparks
EUT:	RTH9580WF01				
Configuration:	1				
Customer:	Honeywell, Automation and Control Solutions				
Attendees:	Norm Behnke				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting modulated. See datasheet comments for channels, modulation types, and antennas.				
Deviations:	None				
Comments:	None				

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	12	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
2483.558	36.3	-3.0	1.0	38.0	3.0	20.0	Vert	AV	0.0	53.3	54.0	-0.7	EUT On Side, Ch 11, 6Mbps
2483.733	56.1	-3.0	1.0	119.0	3.0	20.0	Vert	PK	0.0	73.1	74.0	-0.9	EUT On Side, Ch 11, MCS0, Ant 0
2483.500	36.0	-3.0	1.0	119.0	3.0	20.0	Vert	AV	0.0	53.0	54.0	-1.0	EUT On Side, Ch 11, 36Mbps, Ant 0
2483.558	35.9	-3.0	1.0	119.0	3.0	20.0	Vert	AV	0.0	52.9	54.0	-1.1	EUT On Side, Ch 11, MCS7, Ant 0
2483.500	78.2	-3.1	1.0	119.0	3.0	20.0	Vert	AV	0.0	52.9	54.0	-1.1	EUT On Side, Ch 11, MCS0, Ant 0 (MD)
2483.858	55.3	-3.0	1.0	38.0	3.0	20.0	Vert	PK	0.0	72.3	74.0	-1.7	EUT On Side, Ch 11, 6Mbps
2483.500	35.3	-3.0	1.0	119.0	3.0	20.0	Vert	AV	0.0	52.3	54.0	-1.7	EUT On Side, Ch 11, 54Mbps, Ant 0
2483.542	35.1	-3.0	1.0	36.0	3.0	20.0	Horz	AV	0.0	52.1	54.0	-1.9	EUT Horizontal, Ch 11, 6Mbps
2483.783	55.0	-3.0	1.0	119.0	3.0	20.0	Vert	PK	0.0	72.0	74.0	-2.0	EUT On Side, Ch 11, 54Mbps, Ant 0
2483.500	78.1	-3.1	1.0	119.0	3.0	20.0	Vert	AV	0.0	51.9	54.0	-2.1	EUT On Side, Ch 11, 36Mbps, Ant 0 (MD)
2483.725	54.9	-3.0	1.0	25.0	3.0	20.0	Horz	PK	0.0	71.9	74.0	-2.1	EUT Horizontal, Ch 11, 6Mbps
2389.775	34.2	-3.3	1.0	119.0	3.0	20.0	Vert	AV	0.0	50.9	54.0	-3.1	EUT On Side, Ch 1, MCS0, Ant 0
2483.983	53.6	-3.0	1.0	119.0	3.0	20.0	Vert	PK	0.0	70.6	74.0	-3.4	EUT On Side, Ch 11, MCS7, Ant 0
2483.658	33.6	-3.0	1.4	244.0	3.0	20.0	Vert	AV	0.0	50.6	54.0	-3.4	EUT Vertical, Ch 11, MCS0, Ant 1
2389.958	33.9	-3.3	1.4	244.0	3.0	20.0	Vert	AV	0.0	50.6	54.0	-3.4	EUT Vertical, Ch 1, 36Mbps, Ant 1
2483.608	33.4	-3.0	1.0	179.0	3.0	20.0	Horz	AV	0.0	50.4	54.0	-3.6	EUT Vertical, Ch 11, 6Mbps
2389.883	33.7	-3.3	1.4	244.0	3.0	20.0	Vert	AV	0.0	50.4	54.0	-3.6	EUT Vertical, Ch 1, 6Mbps, Ant 1
2390.000	33.7	-3.3	1.0	119.0	3.0	20.0	Vert	AV	0.0	50.4	54.0	-3.6	EUT On Side, Ch 1, 36Mbps, Ant 0
2483.558	33.3	-3.0	1.4	244.0	3.0	20.0	Vert	AV	0.0	50.3	54.0	-3.7	EUT Vertical, Ch 11, MCS7, Ant 1
2389.942	33.6	-3.3	1.0	119.0	3.0	20.0	Vert	AV	0.0	50.3	54.0	-3.7	EUT On Side, Ch 1, 1Mbps, Ant 0
2389.858	33.5	-3.3	1.4	244.0	3.0	20.0	Vert	AV	0.0	50.2	54.0	-3.8	EUT Vertical, Ch 11, 1Mbps, Ant 1
2388.908	53.3	-3.3	1.0	119.0	3.0	20.0	Vert	PK	0.0	70.0	74.0	-4.0	EUT On Side, Ch 1, MCS0, Ant 0
2483.608	32.7	-3.0	1.4	244.0	3.0	20.0	Vert	AV	0.0	49.7	54.0	-4.3	EUT Vertical, Ch 11, 54Mbps, Ant 1
2483.567	32.6	-3.0	1.4	244.0	3.0	20.0	Vert	AV	0.0	49.6	54.0	-4.4	EUT Vertical, Ch 11, 36Mbps, Ant 1
2389.025	32.5	-3.3	1.0	119.0	3.0	20.0	Vert	AV	0.0	49.2	54.0	-4.8	EUT On Side, Ch 1, 6Mbps, Ant 0
2487.833	31.9	-3.0	1.0	119.0	3.0	20.0	Vert	AV	0.0	48.9	54.0	-5.1	EUT On Side, Ch 11, 1Mbps, Ant 0
2483.533	31.8	-3.0	1.0	119.0	3.0	20.0	Vert	AV	0.0	48.8	54.0	-5.2	EUT On Side, Ch 11, 11Mbps, Ant 0
2484.975	31.4	-3.0	1.4	244.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	EUT Vertical, Ch 11, 11Mbps, Ant 1
2488.208	31.3	-3.0	1.4	244.0	3.0	20.0	Vert	AV	0.0	48.3	54.0	-5.7	EUT Vertical, Ch 11, 1Mbps, Ant 1
2483.533	31.1	-3.0	1.0	277.0	3.0	20.0	Vert	AV	0.0	48.1	54.0	-5.9	EUT Vertical, Ch 11, 6Mbps
2483.508	31.0	-3.0	1.0	266.0	3.0	20.0	Vert	AV	0.0	48.0	54.0	-6.0	EUT Vertical, Ch 11, 6Mbps
2483.675	30.9	-3.0	1.0	347.0	3.0	20.0	Horz	AV	0.0	47.9	54.0	-6.1	EUT Horizontal, Ch 11, 6Mbps
2388.625	30.7	-3.3	1.4	244.0	3.0	20.0	Vert	AV	0.0	47.4	54.0	-6.6	EUT Vertical, Ch 1, MCS0, Ant 1
2484.267	29.7	-3.0	1.6	252.0	3.0	20.0	Vert	AV	0.0	46.7	54.0	-7.3	EUT Horizontal, Ch 11, 6Mbps

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
2483.567	29.7	-3.0	1.0	129.0	3.0	20.0	Vert	AV	0.0	46.7	54.0	-7.3	EUT On Side, Ch 11, 6Mbps
2483.508	49.7	-3.0	1.0	179.0	3.0	20.0	Horz	PK	0.0	66.7	74.0	-7.3	EUT Vertical, Ch 11, 6Mbps
2483.508	29.7	-3.0	1.0	207.0	3.0	20.0	Horz	AV	0.0	46.7	54.0	-7.3	EUT Vertical, Ch 11, 6Mbps
2483.783	29.6	-3.0	1.0	62.0	3.0	20.0	Horz	AV	0.0	46.6	54.0	-7.4	EUT On Side, Ch 11, 6Mbps
2488.358	29.5	-3.0	1.0	207.0	3.0	20.0	Vert	AV	0.0	46.5	54.0	-7.5	EUT Horizontal, Ch 11, 6Mbps
2485.458	29.5	-3.0	1.0	170.0	3.0	20.0	Horz	AV	0.0	46.5	54.0	-7.5	EUT On Side, Ch 11, 6Mbps
2389.383	49.7	-3.3	1.0	119.0	3.0	20.0	Vert	PK	0.0	66.4	74.0	-7.6	EUT On Side, Ch 1, 36Mbps, Ant 0
2483.500	49.1	-3.0	1.4	244.0	3.0	20.0	Vert	PK	0.0	66.1	74.0	-7.9	EUT Vertical, Ch 11, MCS0, Ant 1
2389.767	49.1	-3.3	1.0	119.0	3.0	20.0	Vert	PK	0.0	65.8	74.0	-8.2	EUT On Side, Ch 1, 1Mbps, Ant 0
2389.883	48.7	-3.3	1.4	244.0	3.0	20.0	Vert	PK	0.0	65.4	74.0	-8.6	EUT Vertical, Ch 1, 36Mbps, Ant 1
2483.567	48.0	-3.0	1.4	244.0	3.0	20.0	Vert	PK	0.0	65.0	74.0	-9.0	EUT Vertical, Ch 11, MCS7, Ant 1
4823.947	39.0	5.4	1.2	299.0	3.0	0.0	Vert	AV	0.0	44.4	54.0	-9.6	1 Mbps, EUT on side, low ch, ant 0
2389.692	47.5	-3.3	1.4	244.0	3.0	20.0	Vert	PK	0.0	64.2	74.0	-9.8	EUT Vertical, Ch 1, 1Mbps, Ant 1
2389.783	47.4	-3.3	1.4	244.0	3.0	20.0	Vert	PK	0.0	64.1	74.0	-9.9	EUT Vertical, Ch 1, 6Mbps, Ant 1
2483.625	46.6	-3.0	1.4	244.0	3.0	20.0	Vert	PK	0.0	63.6	74.0	-10.4	EUT Vertical, Ch 11, 36Mbps, Ant 1
4873.905	38.2	5.1	1.0	209.0	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	1 Mbps, EUT on side, mid ch, ant 1
4873.925	38.1	5.1	1.0	245.0	3.0	0.0	Horz	AV	0.0	43.2	54.0	-10.8	1 Mbps, EUT on side, mid ch, ant 0
2483.667	45.9	-3.0	1.0	266.0	3.0	20.0	Vert	PK	0.0	62.9	74.0	-11.1	EUT Vertical, Ch 11, 6Mbps
4823.975	37.2	5.4	1.0	254.0	3.0	0.0	Horz	AV	0.0	42.6	54.0	-11.4	1 Mbps, EUT vert, low ch, ant 1
4823.972	37.0	5.4	1.0	331.0	3.0	0.0	Horz	AV	0.0	42.4	54.0	-11.6	1 Mbps, EUT on side, low ch, ant 0
4873.997	37.3	5.1	1.0	228.0	3.0	0.0	Horz	AV	0.0	42.4	54.0	-11.6	1 Mbps, EUT vert, mid ch, ant 1
4823.955	36.9	5.4	1.0	67.0	3.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	1 Mbps, EUT vert, low ch, ant 0
4873.955	37.2	5.1	1.0	118.0	3.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	1 Mbps, EUT horz, mid ch, ant 1
4874.030	37.2	5.1	1.0	246.0	3.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	1 Mbps, EUT on side, mid ch, ant 1
4823.972	36.8	5.4	1.0	199.0	3.0	0.0	Horz	AV	0.0	42.2	54.0	-11.8	1 Mbps, EUT horz, low ch, ant 0
4824.008	36.8	5.4	1.0	270.0	3.0	0.0	Vert	AV	0.0	42.2	54.0	-11.8	1 Mbps, EUT on side, low ch, ant 1
4924.017	37.2	4.9	1.0	252.0	3.0	0.0	Horz	AV	0.0	42.1	54.0	-11.9	1 Mbps, EUT on side, high ch, ant 0
4873.958	36.9	5.1	1.0	47.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	1 Mbps, EUT on side, mid ch, ant 0
4873.963	36.8	5.1	1.0	195.0	3.0	0.0	Vert	AV	0.0	41.9	54.0	-12.1	1 Mbps, EUT vert, mid ch, ant 1
2483.583	44.8	-3.0	1.4	244.0	3.0	20.0	Vert	PK	0.0	61.8	74.0	-12.2	EUT Vertical, Ch 11, 54Mbps, Ant 1
4824.088	36.4	5.4	1.5	199.0	3.0	0.0	Vert	AV	0.0	41.8	54.0	-12.2	1 Mbps, EUT vert, low ch, ant 0
4923.967	36.8	4.9	1.1	225.0	3.0	0.0	Vert	AV	0.0	41.7	54.0	-12.3	1 Mbps, EUT on side, high ch, ant 0
7386.717	28.8	12.8	3.0	259.0	3.0	0.0	Horz	AV	0.0	41.6	54.0	-12.4	1 Mbps, EUT on side, high ch, ant 0
7386.642	28.8	12.8	1.0	84.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	1 Mbps, EUT on side, high ch, ant 1
7385.025	28.8	12.8	1.8	140.0	3.0	0.0	Horz	AV	0.0	41.6	54.0	-12.4	1 Mbps, EUT vert, high ch, ant 1
7383.775	28.7	12.8	1.0	28.0	3.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	1 Mbps, EUT on side, high ch, ant 0
7310.775	29.1	12.3	1.0	77.0	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	1 Mbps, EUT horz, mid ch, ant i
7311.808	29.0	12.3	1.9	281.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	1 Mbps, EUT on side, mid ch, ant 1
2486.283	44.0	-3.0	1.4	244.0	3.0	20.0	Vert	PK	0.0	61.0	74.0	-13.0	EUT Vertical, Ch 11, 1Mbps, Ant 1
2483.658	43.5	-3.0	1.0	347.0	3.0	20.0	Horz	PK	0.0	60.5	74.0	-13.5	EUT Horizontal, Ch 11, 6Mbps
4824.063	35.0	5.4	1.0	32.0	3.0	0.0	Vert	AV	0.0	40.4	54.0	-13.6	1 Mbps, EUT horz, low ch, ant 0
4823.958	34.8	5.4	1.1	301.0	3.0	0.0	Vert	AV	0.0	40.2	54.0	-13.8	11 Mbps, EUT on side, low ch, ant 0
2483.658	43.1	-3.0	1.0	277.0	3.0	20.0	Vert	PK	0.0	60.1	74.0	-13.9	EUT Vertical, Ch 11, 6Mbps
4873.988	35.0	5.1	1.1	200.0	3.0	0.0	Vert	AV	0.0	40.1	54.0	-13.9	1 Mbps, EUT horz, mid ch, ant 1
2387.708	43.2	-3.3	1.0	119.0	3.0	20.0	Vert	PK	0.0	59.9	74.0	-14.1	EUT On Side, Ch 1, 6Mbps, Ant 0
2488.125	42.8	-3.0	1.0	119.0	3.0	20.0	Vert	PK	0.0	59.8	74.0	-14.2	EUT On Side, Ch 11, 1Mbps, Ant 0
4923.900	34.8	4.9	1.0	214.0	3.0	0.0	Vert	AV	0.0	39.7	54.0	-14.3	1 Mbps, EUT on side, high ch, ant 1
2483.500	42.6	-3.0	1.0	119.0	3.0	20.0	Vert	PK	0.0	59.6	74.0	-14.4	EUT On Side, Ch 11, 11Mbps, Ant 0
7312.567	27.3	12.3	2.6	110.0	3.0	0.0	Vert	AV	0.0	39.6	54.0	-14.4	1 Mbps, EUT on side, mid ch, ant 0
7310.050	27.3	12.3	1.0	218.0	3.0	0.0	Horz	AV	0.0	39.6	54.0	-14.4	1 Mbps, EUT on side, mid ch, ant 0
4923.983	34.6	4.9	1.0	206.0	3.0	0.0	Horz	AV	0.0	39.5	54.0	-14.5	1 Mbps, EUT vert, high ch, ant 1
2486.400	42.2	-3.0	1.4	244.0	3.0	20.0	Vert	PK	0.0	59.2	74.0	-14.8	EUT Vertical, Ch 11, 11Mbps, Ant 1
2388.308	42.4	-3.3	1.4	244.0	3.0	20.0	Vert	PK	0.0	59.1	74.0	-14.9	EUT Vertical, Ch 1, MCS0, Ant 1
2484.958	41.2	-3.0	1.0	207.0	3.0	20.0	Vert	PK	0.0	58.2	74.0	-15.8	EUT Horizontal, Ch 11, 6Mbps
2485.450	41.1	-3.0	1.0	207.0	3.0	20.0	Horz	PK	0.0	58.1	74.0	-15.9	EUT Vertical, Ch 11, 6Mbps
2485.033	41.0	-3.0	1.0	62.0	3.0	20.0	Horz	PK	0.0	58.0	74.0	-16.0	EUT On Side, Ch 11, 6Mbps
2485.175	40.9	-3.0	1.6	252.0	3.0	20.0	Vert	PK	0.0	57.9	74.0	-16.1	EUT Horizontal, Ch 11, 6Mbps
2485.125	40.9	-3.0	1.0	129.0	3.0	20.0	Vert	PK	0.0	57.9	74.0	-16.1	EUT On Side, Ch 11, 6Mbps
2486.817	40.8	-3.0	1.0	170.0	3.0	20.0	Horz	PK	0.0	57.8	74.0	-16.2	EUT On Side, Ch 11, 6Mbps
4874.043	31.9	5.1	1.0	305.0	3.0	0.0	Vert	AV	0.0	37.0	54.0	-17.0	11 Mbps, EUT on side, mid ch, ant 1
4872.652	30.6	5.1	1.0	305.0	3.0	0.0	Vert	AV	0.0	35.7	54.0	-18.3	6 Mbps, EUT on side, mid ch, ant 1
14769.940	31.3	4.0	1.6	191.0	3.0	0.0	Horz	AV	0.0	35.3	54.0	-18.7	1 Mbps, EUT vert, low ch, ant 1
14769.500	31.3	4.0	1.0	121.0	3.0	0.0	Vert	AV	0.0	35.3	54.0	-18.7	1 Mbps, EUT on side, low ch, ant 1
4873.885	30.2	5.1	1.0	305.0	3.0	0.0	Vert	AV	0.0	35.3	54.0	-18.7	36 Mbps, EUT on side, mid ch, ant 1
4874.818	30.2	5.1	1.0	305.0	3.0	0.0	Vert	AV	0.0	35.3	54.0	-18.7	MCS0, EUT on side, mid ch, ant 1
4875.177	30.2	5.1	1.0	305.0	3.0	0.0	Vert	AV	0.0	35.3	54.0	-18.7	MCS7, EUT on side, mid ch, ant 1
4875.160	30.1	5.1	1.0	305.0	3.0	0.0	Vert	AV	0.0	35.2	54.0	-18.8	54 Mbps, EUT on side, mid ch, ant 1
4822.642	29.2	5.4	1.1	301.0	3.0	0.0	Vert	AV	0.0	34.6	54.0	-19.4	54 Mbps, EUT on side, low ch, ant 0
4822.708	29.2	5.4	1.1	301.0	3.0	0.0	Vert	AV	0.0	34.6	54.0	-19.4	MCS0, EUT on side, low ch, ant 0
4822.725	29.2	5.4	1.1	301.0	3.0	0.0	Vert	AV	0.0	34.6	54.0	-19.4	36 Mbps, EUT on side, low ch, ant 0
4823.408	29.2	5.4	1.1	301.0	3.0	0.0	Vert	AV	0.0	34.6	54.0	-19.4	6 Mbps, EUT on side, low ch, ant 0
4822.808	29.1	5.4	1.1	301.0	3.0	0.0	Vert	AV	0.0	34.5	54.0	-19.5	MCS7, EUT on side, low ch, ant 0
14769.820	29.8	4.0	3.1	139.0	3.0	0.0	Horz	AV	0.0	33.8	54.0	-20.2	1 Mbps, EUT on side, low ch, ant 0
14771.000	29.7	4.0	1.0	226.0	3.0	0.0	Vert	AV	0.0	33.7	54.0	-20.3	1 Mbps, EUT on side, low ch, ant 0
7384.283	40.7	12.8	3.0	259.0	3.0	0.0	Horz	PK	0.0	53.5	74.0	-20.5	1 Mbps, EUT on side, high ch, ant 0
7311.950	40.8	12.3	1.9	281.0	3.0	0.0	Vert	PK	0.0	53.1	74.0	-20.9	1 Mbps, EUT vert, mid ch, ant 1
7387.842	40.3	12.8	1.8	140.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	1 Mbps, EUT vert, high ch, ant 1
7387.683	40.3	12.8	1.0	28.0	3.0	0.0	Vert	PK	0.0	53.1	74.0	-20.9	1 Mbps, EUT on side, high ch, ant 0
7313.142	40.4	12.3	1.0	77.0	3.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	1 Mbps, EUT horz, mid ch, ant i
7388.425	39.9	12.8	1.0	84.0	3.0	0.0	Vert	PK	0.0	52.7	74.0	-21.3	1 Mbps, EUT on side, high ch, ant 1
7310.483	38.9	12.3	2.6	110.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	1 Mbps, EUT on side, mid ch, ant 0
7309.225	38.8	12.3	1.0	218.0	3.0	0.0	Horz	PK	0.0	51.1	74.0	-22.9	1 Mbps, EUT on side, mid ch, ant 0
4823.563	44.7	5.4	1.2	299.0	3.0	0.0	Vert	PK	0.0	50.1	74.0	-23.9	1 Mbps, EUT on side, low ch, ant 0
4823.847	44.6	5.4	1.0	67.0	3.0	0.0	Horz	PK	0.0	50.0	74.0	-24.0	1 Mbps, EUT vert, low ch, ant 0
4823.405	44.5	5.4	1.5	199.0	3.0	0.0	Vert	PK	0.0	49.9	74.0	-24.1	1 Mbps, EUT vert, low ch, ant 0
4873.838	44.7	5.1	1.0	228.0	3.0	0.0	Horz	PK	0.0	49.8	74.0	-24.2	1 Mbps, EUT vert, mid ch, ant 1
4873.822	44.5	5.1	1.0	209.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	1 Mbps, EUT on side, mid ch, ant 1
4874.063	44.5	5.1	1.0	118.0	3.0	0.0	Horz	PK	0.0	49.6	74.0	-24.4	1 Mbps, EUT horz, mid ch, ant 1
4874.030	44.4	5.1	1.0	246.0	3.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	1 Mbps, EUT on side, mid ch, ant 1
4874.192	44.4	5.1	1.0	245.0	3.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	1 Mbps, EUT on side, mid ch, ant 0
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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
12060.060	33.7	-5.2	1.0	302.0	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	1 Mbps, EUT vert, low ch, ant 1
12059.570	33.6	-5.2	1.0	212.0	3.0	0.0	Vert	AV	0.0	28.4	54.0	-25.6	1 Mbps, EUT on side, low ch, ant 1
4924.250	43.4	4.9	1.0	206.0	3.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	1 Mbps, EUT vert, high ch, ant 1
4824.147	42.9	5.4	1.0	32.0	3.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	1 Mbps, EUT horz, low ch, ant 0
12312.240	33.2	-4.9	1.0	265.0	3.0	0.0	Vert	AV	0.0	28.3	54.0	-25.7	1 Mbps, EUT on side, high ch, ant 1
4874.072	43.1	5.1	1.1	200.0	3.0	0.0	Vert	PK	0.0	48.2	74.0	-25.8	1 Mbps, EUT horz, mid ch, ant 1
12311.630	33.1	-4.9	1.0	319.0	3.0	0.0	Horz	AV	0.0	28.2	54.0	-25.8	1 Mbps, EUT vert, high ch, ant 1
4924.192	42.8	4.9	1.0	214.0	3.0	0.0	Vert	PK	0.0	47.7	74.0	-26.3	1 Mbps, EUT on side, high ch, ant 1
12185.240	32.6	-5.0	1.0	352.0	3.0	0.0	Vert	AV	0.0	27.6	54.0	-26.4	1 Mbps, EUT on side, mid ch, ant 0
12187.430	32.4	-5.0	2.3	232.0	3.0	0.0	Horz	AV	0.0	27.4	54.0	-26.6	1 Mbps, EUT on side, mid ch, ant 0
14770.240	43.2	4.0	1.0	121.0	3.0	0.0	Vert	PK	0.0	47.2	74.0	-26.8	1 Mbps, EUT on side, low ch, ant 1
4874.210	42.1	5.1	1.0	305.0	3.0	0.0	Vert	PK	0.0	47.2	74.0	-26.8	11 Mbps, EUT on side, mid ch, ant 1
12059.750	32.2	-5.2	1.0	115.0	3.0	0.0	Vert	AV	0.0	27.0	54.0	-27.0	1 Mbps, EUT on side, low ch, ant 0
4875.977	41.9	5.1	1.0	305.0	3.0	0.0	Vert	PK	0.0	47.0	74.0	-27.0	6 Mbps, EUT on side, mid ch, ant 1
12310.000	31.8	-4.9	1.0	239.0	3.0	0.0	Vert	AV	0.0	26.9	54.0	-27.1	1 Mbps, EUT on side, high ch, ant 0
12310.030	31.7	-4.9	1.0	297.0	3.0	0.0	Horz	AV	0.0	26.8	54.0	-27.2	1 Mbps, EUT on side, high ch, ant 0
12060.890	31.9	-5.2	3.2	238.0	3.0	0.0	Horz	AV	0.0	26.7	54.0	-27.3	1 Mbps, EUT on side, low ch, ant 0
14770.680	42.7	4.0	1.6	191.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	1 Mbps, EUT vert, low ch, ant 1
4874.568	41.6	5.1	1.0	305.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	MCS0, EUT on side, mid ch, ant 1
4876.360	41.5	5.1	1.0	305.0	3.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4	MCS7, EUT on side, mid ch, ant 1
4872.985	41.4	5.1	1.0	305.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	54 Mbps, EUT on side, mid ch, ant 1
4871.510	41.2	5.1	1.0	305.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	36 Mbps, EUT on side, mid ch, ant 1
4823.733	40.7	5.4	1.1	301.0	3.0	0.0	Vert	PK	0.0	46.1	74.0	-27.9	6 Mbps, EUT on side, low ch, ant 0
4824.933	40.5	5.4	1.1	301.0	3.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	54 Mbps, EUT on side, low ch, ant 0
4822.083	40.3	5.4	1.1	301.0	3.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	MCS7, EUT on side, low ch, ant 0
4825.217	40.3	5.4	1.1	301.0	3.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	MCS0, EUT on side, low ch, ant 0
14770.360	41.6	4.0	3.1	139.0	3.0	0.0	Horz	PK	0.0	45.6	74.0	-28.4	1 Mbps, EUT on side, low ch, ant 0
4821.600	40.1	5.4	1.1	301.0	3.0	0.0	Vert	PK	0.0	45.5	74.0	-28.5	36 Mbps, EUT on side, low ch, ant 0
14772.560	40.7	4.0	1.0	226.0	3.0	0.0	Vert	PK	0.0	44.7	74.0	-29.3	1 Mbps, EUT on side, low ch, ant 0
12187.080	45.2	-5.0	1.0	259.0	3.0	0.0	Horz	PK	0.0	40.2	74.0	-33.8	1 Mbps, EUT vert, mid ch, ant 1
12187.490	44.9	-5.0	1.0	331.0	3.0	0.0	Vert	PK	0.0	39.9	74.0	-34.1	1 Mbps, EUT on side, mid ch, ant 1
12057.680	44.8	-5.2	1.0	302.0	3.0	0.0	Horz	PK	0.0	39.6	74.0	-34.4	1 Mbps, EUT vert, low ch, ant 1
12062.240	44.7	-5.1	1.0	212.0	3.0	0.0	Vert	PK	0.0	39.6	74.0	-34.4	1 Mbps, EUT on side, low ch, ant 1
12308.400	44.5	-5.0	1.0	319.0	3.0	0.0	Horz	PK	0.0	39.5	74.0	-34.5	1 Mbps, EUT vert, high ch, ant 1
12310.320	44.3	-4.9	1.0	265.0	3.0	0.0	Vert	PK	0.0	39.4	74.0	-34.6	1 Mbps, EUT on side, high ch, ant 1
12308.700	44.2	-5.0	1.0	297.0	3.0	0.0	Horz	PK	0.0	39.2	74.0	-34.8	1 Mbps, EUT on side, high ch, ant 0
12187.340	44.0	-5.0	1.0	352.0	3.0	0.0	Vert	PK	0.0	39.0	74.0	-35.0	1 Mbps, EUT on side, mid ch, ant 0
12182.540	43.7	-5.0	2.3	232.0	3.0	0.0	Horz	PK	0.0	38.7	74.0	-35.3	1 Mbps, EUT on side, mid ch, ant 0
12060.300	43.2	-5.2	1.0	115.0	3.0	0.0	Vert	PK	0.0	38.0	74.0	-36.0	1 Mbps, EUT on side, low ch, ant 0
12062.090	43.0	-5.1	3.2	238.0	3.0	0.0	Horz	PK	0.0	37.9	74.0	-36.1	1 Mbps, EUT on side, low ch, ant 0
12309.780	42.5	-4.9	1.0	239.0	3.0	0.0	Vert	PK	0.0	37.6	74.0	-36.4	1 Mbps, EUT on side, high ch, ant 0

OCCUPIED BANDWIDTH

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mo)
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

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

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.



OCCUPIED BANDWIDTH

XMit 2014.02.07
NweTx 2014.07.18.3

EUT: RTH9580WF01	Work Order: HNYW0108
Serial Number: P24	Date: 08/25/14
Customer: Honeywell, Automation and Control Solutions	Temperature: 23.4°C
Attendees: None	Humidity: 57%
Project: None	Barometric Pres.: 1017.2
Tested by: Trevor Buls	Power: 110VAC/60Hz
	Job Site: MN08

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

Configuration #	2	Signature <i>Trevor Buls</i>
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	Value	Limit (>)	Result
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Antenna 0

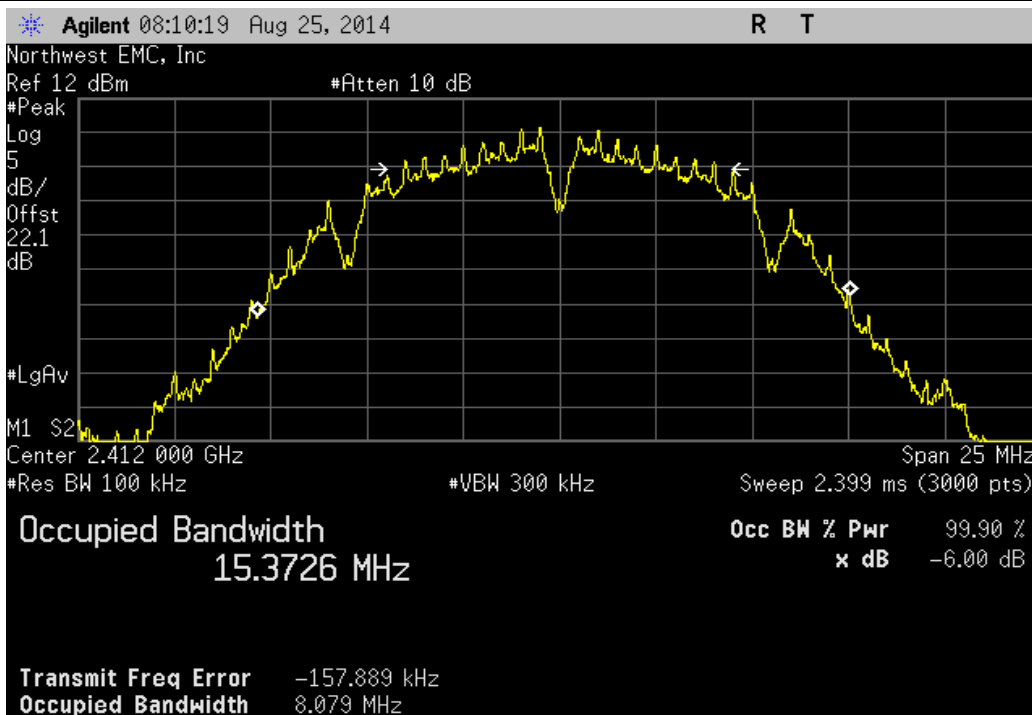
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	8.079 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	8.19 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	8.032 MHz	500 kHz	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	8.458 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	8.384 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	8.065 MHz	500 kHz	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	15.107 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.624 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.028 MHz	500 kHz	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	15.372 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.504 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.159 MHz	500 kHz	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	15.767 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.328 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	16.002 MHz	500 kHz	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	17.145 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.175 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	14.734 MHz	500 kHz	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	16.261 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	17.106 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	16.973 MHz	500 kHz	Pass

Antenna 1

802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	8.66 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	8.003 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	8.325 MHz	500 kHz	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	8.623 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	8.099 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	8.222 MHz	500 kHz	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	15.491 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	14.873 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.097 MHz	500 kHz	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	15.304 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.68 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.077 MHz	500 kHz	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	15.579 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.719 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.376 MHz	500 kHz	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	16.035 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.019 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.445 MHz	500 kHz	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	16.58 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	16.272 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.916 MHz	500 kHz	Pass

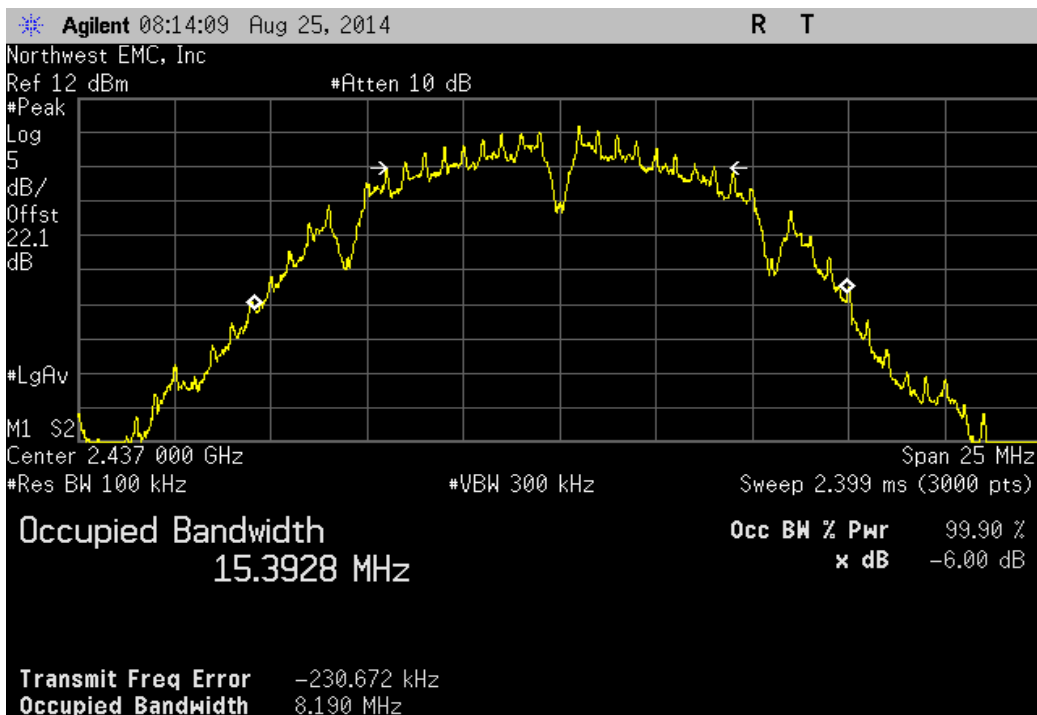
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (>)	Result
	8.079 MHz	500 kHz	Pass



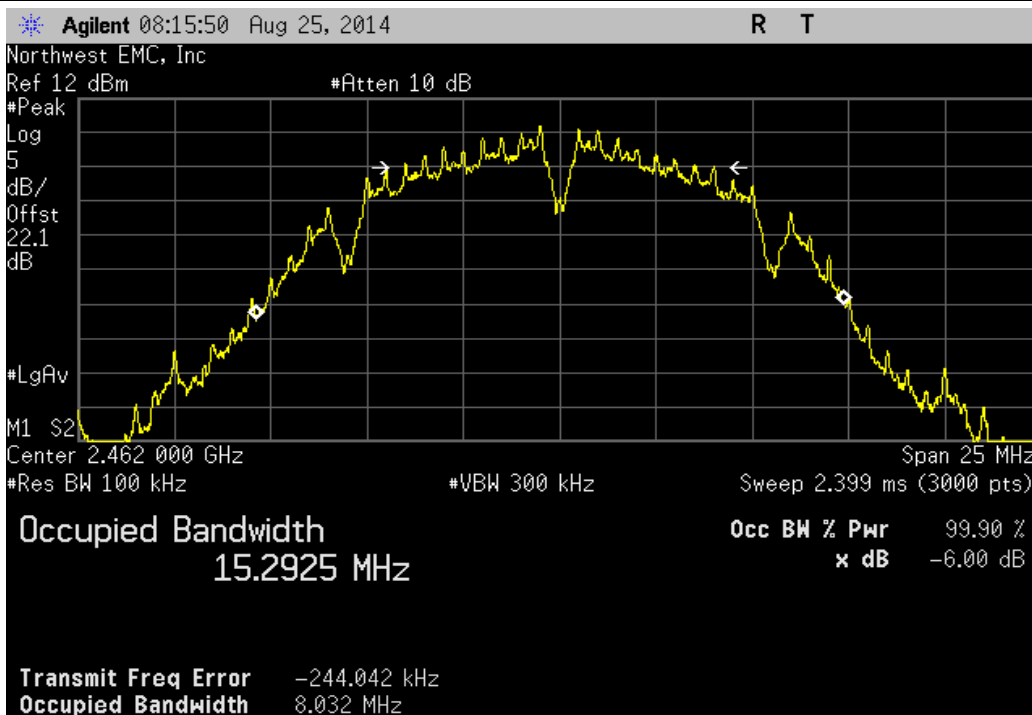
Antenna 0, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit (>)	Result
	8.19 MHz	500 kHz	Pass



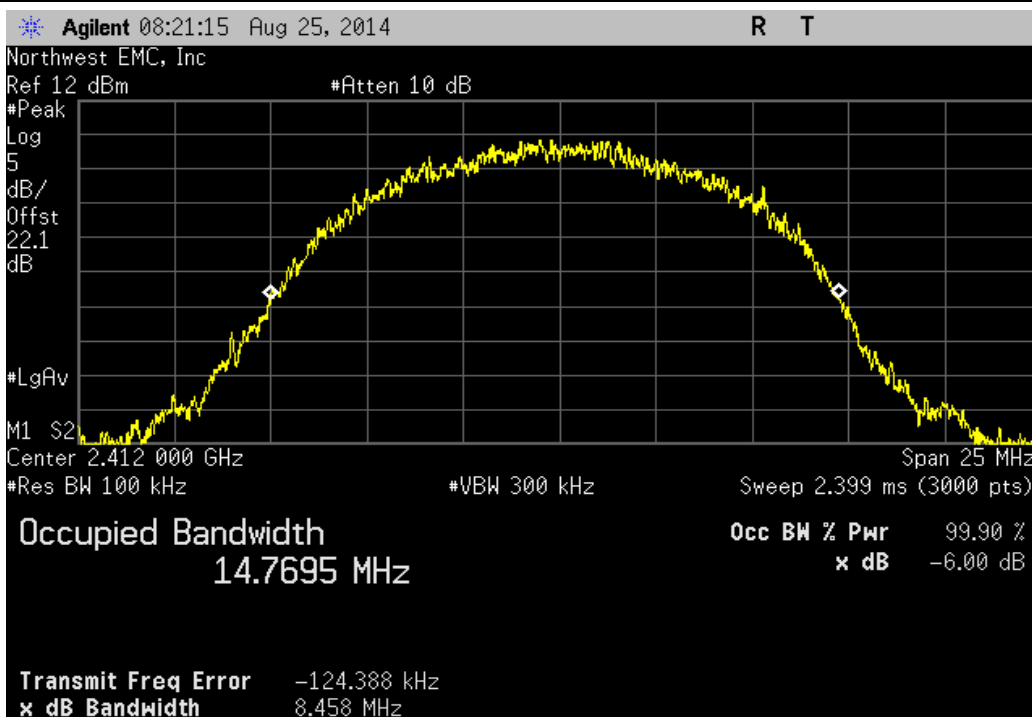
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

	Value	Limit (>)	Result
	8.032 MHz	500 kHz	Pass



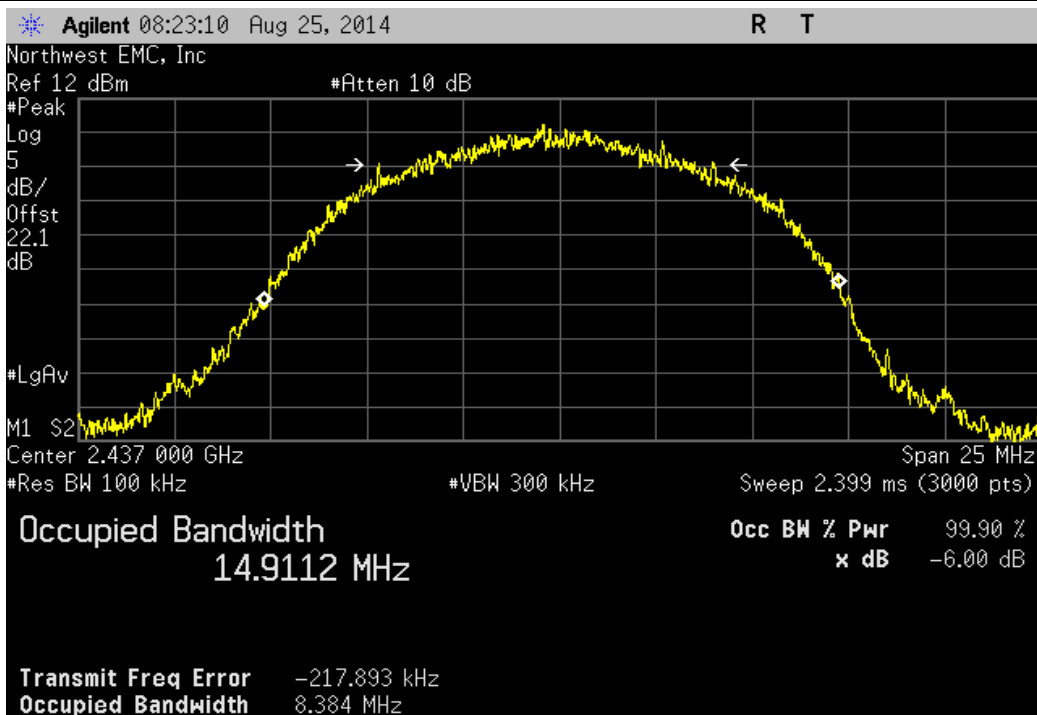
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (>)	Result
	8.458 MHz	500 kHz	Pass



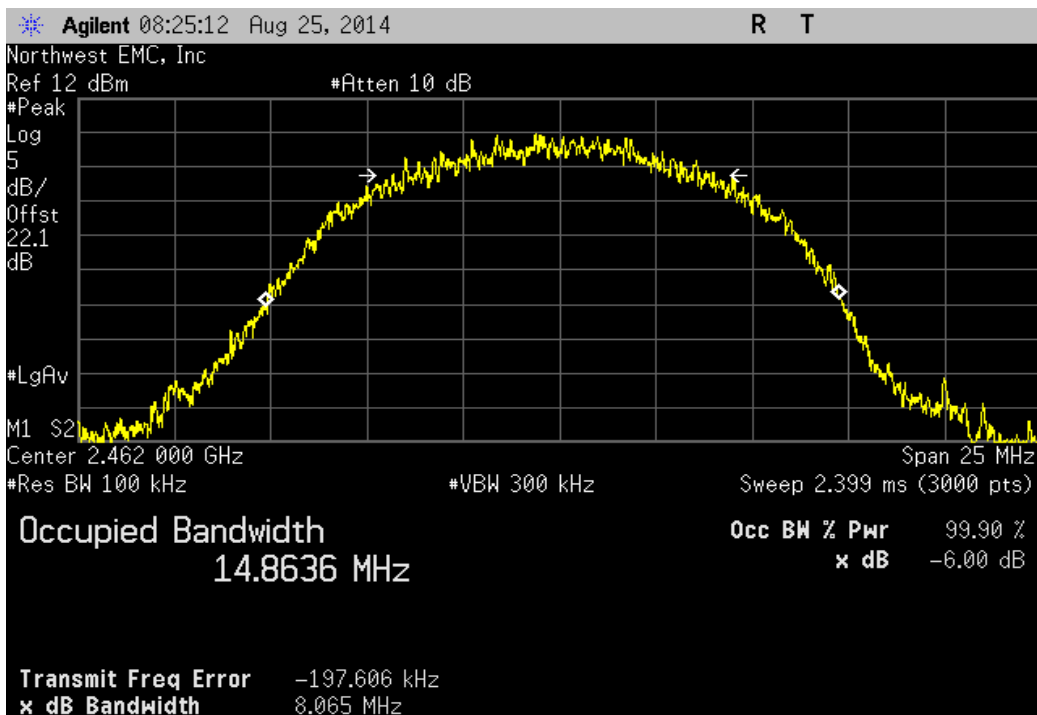
Antenna 0, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit (>)	Result
	8.384 MHz	500 kHz	Pass



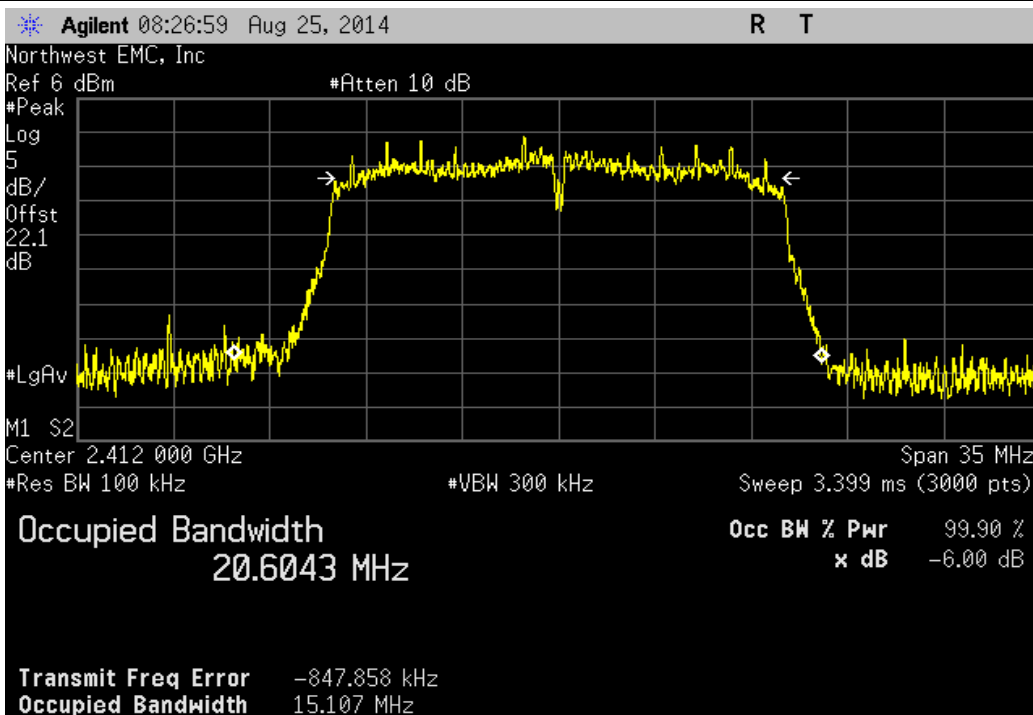
Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

	Value	Limit (>)	Result
	8.065 MHz	500 kHz	Pass



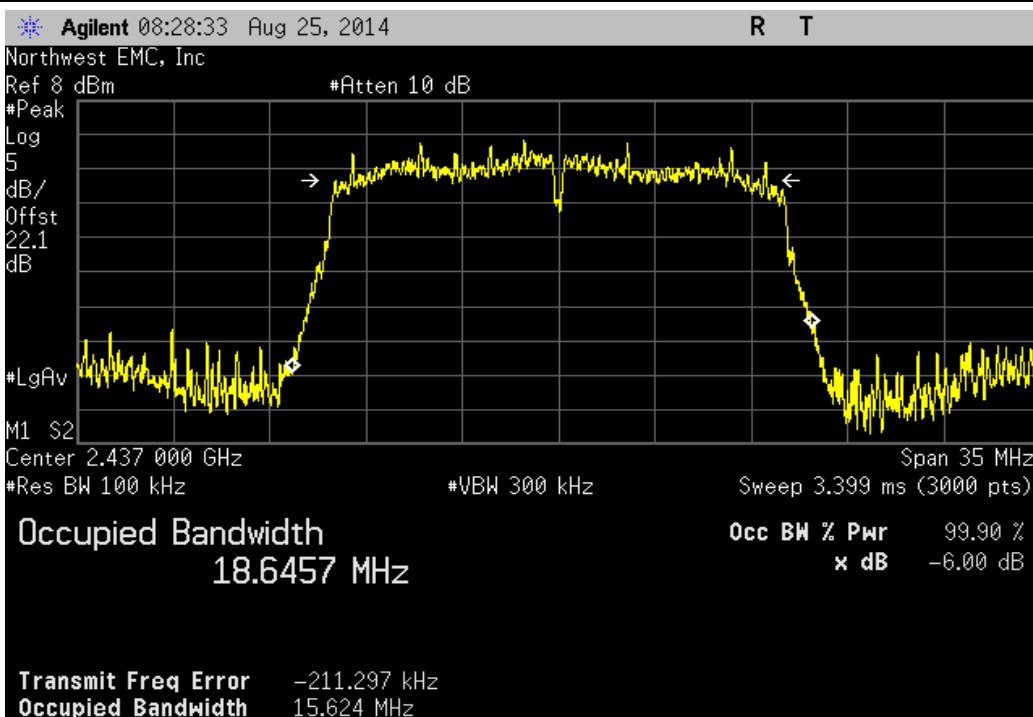
Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit (>)	Result
				15.107 MHz	500 kHz	Pass



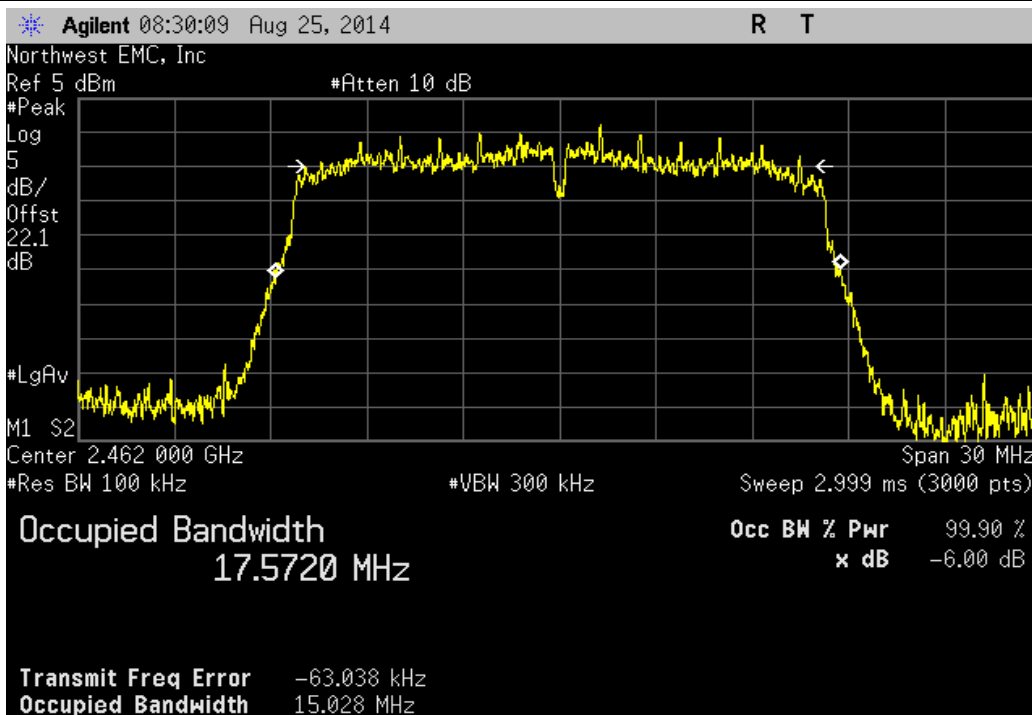
Antenna 0, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit (>)	Result
				15.624 MHz	500 kHz	Pass



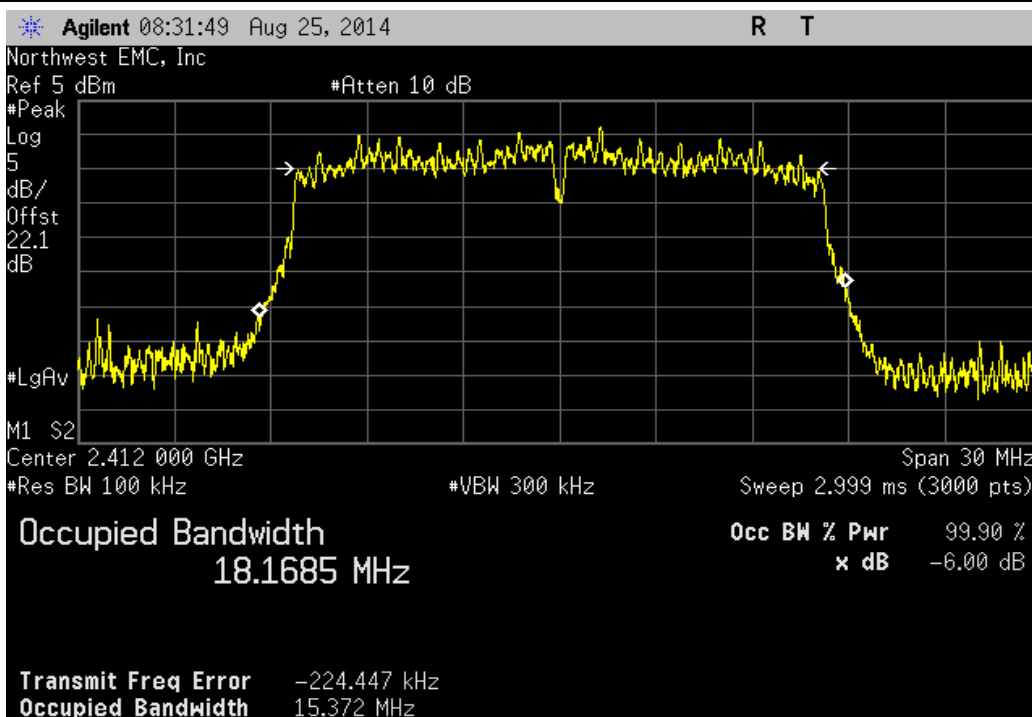
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit (>)	Result
				15.028 MHz	500 kHz	Pass



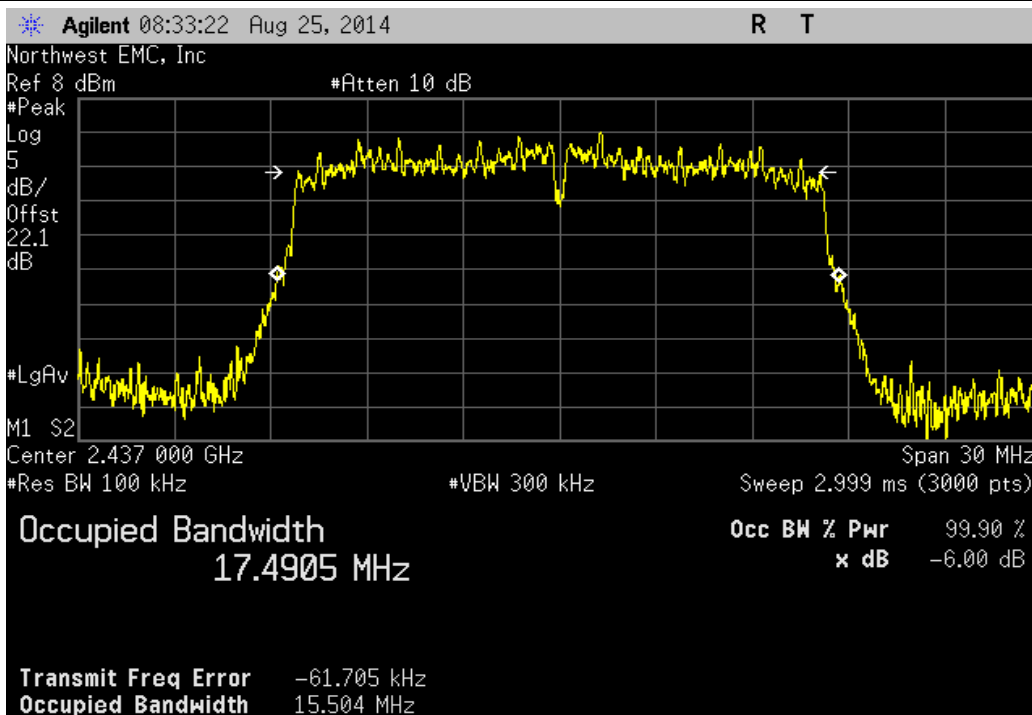
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit (>)	Result
				15.372 MHz	500 kHz	Pass



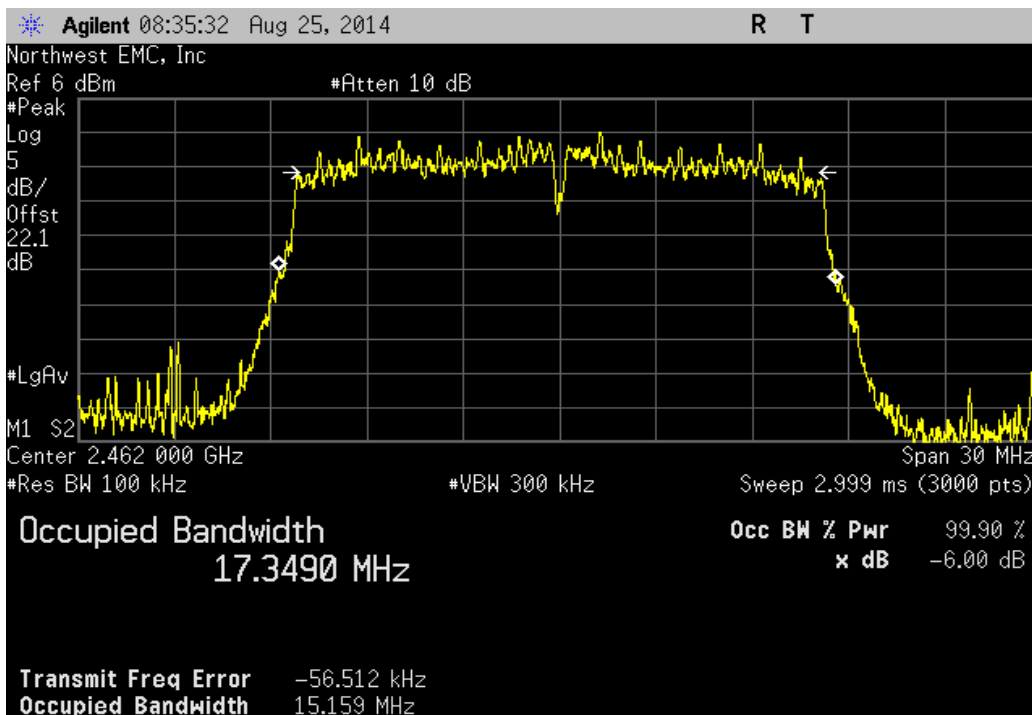
Antenna 0, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (>)	Result
15.504 MHz	500 kHz	Pass



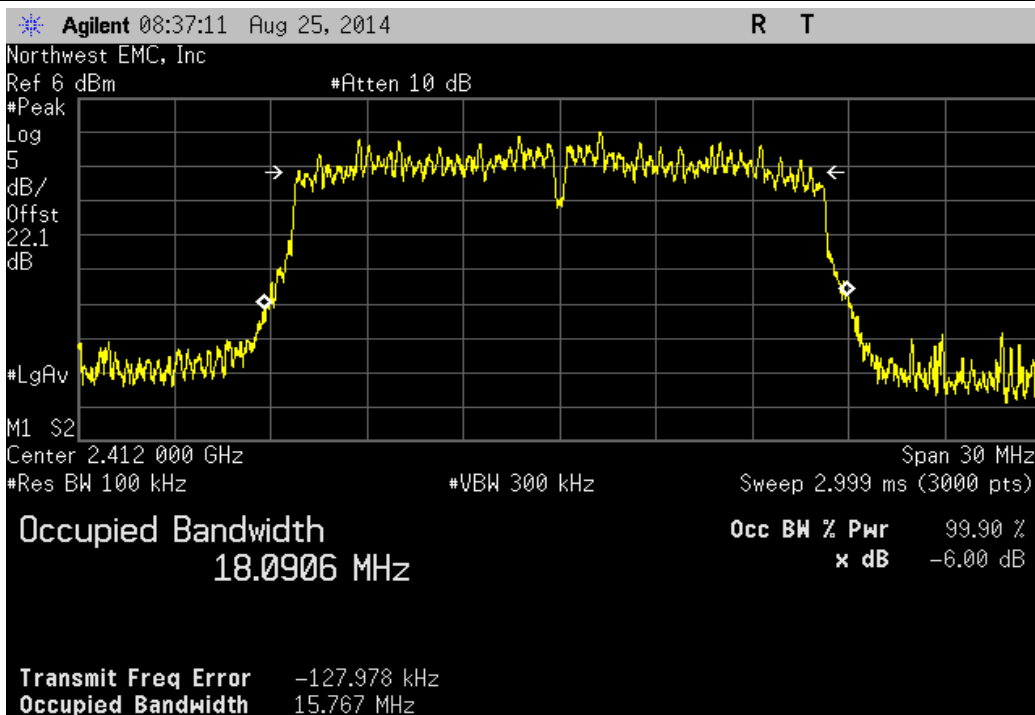
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit (>)	Result
15.159 MHz	500 kHz	Pass



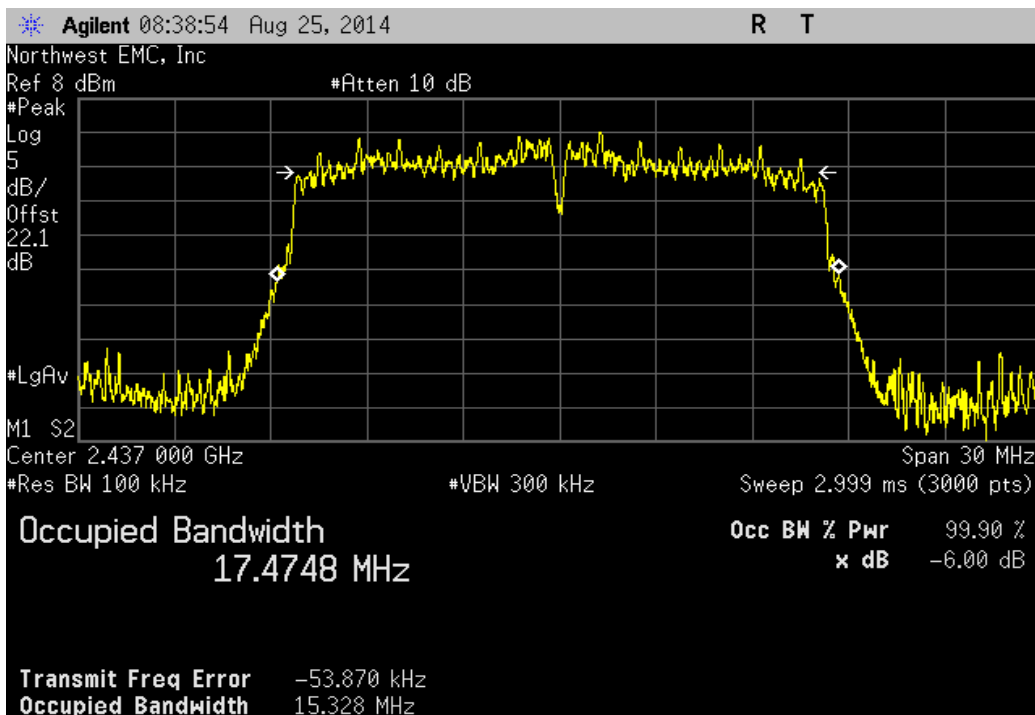
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit (>)	Result
15.767 MHz	500 kHz	Pass



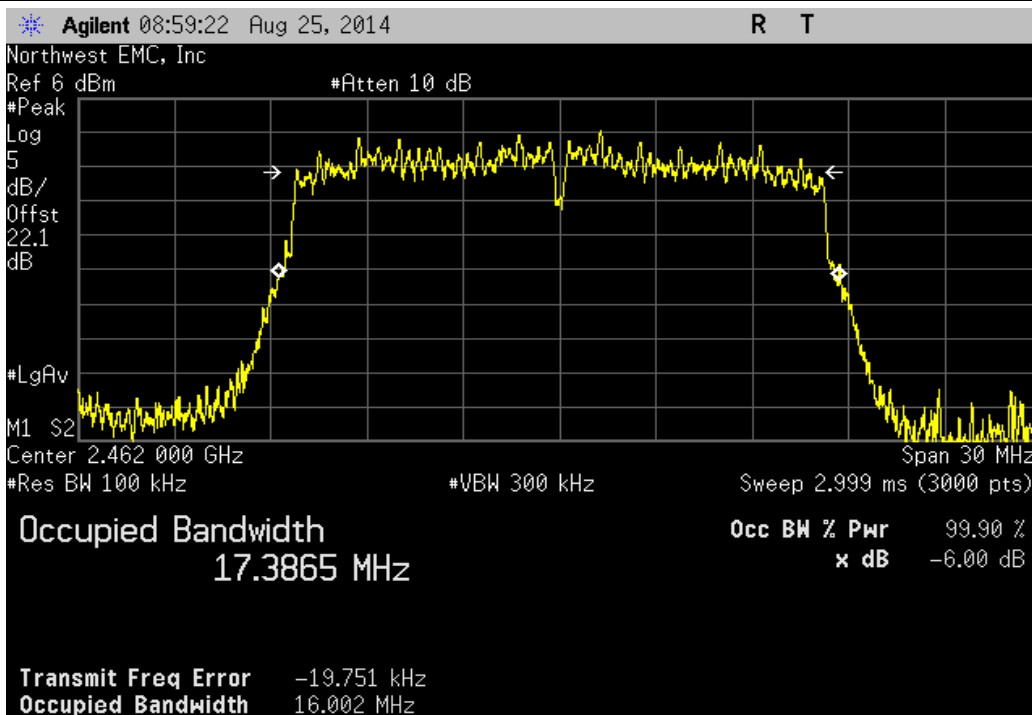
Antenna 0, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (>)	Result
15.328 MHz	500 kHz	Pass



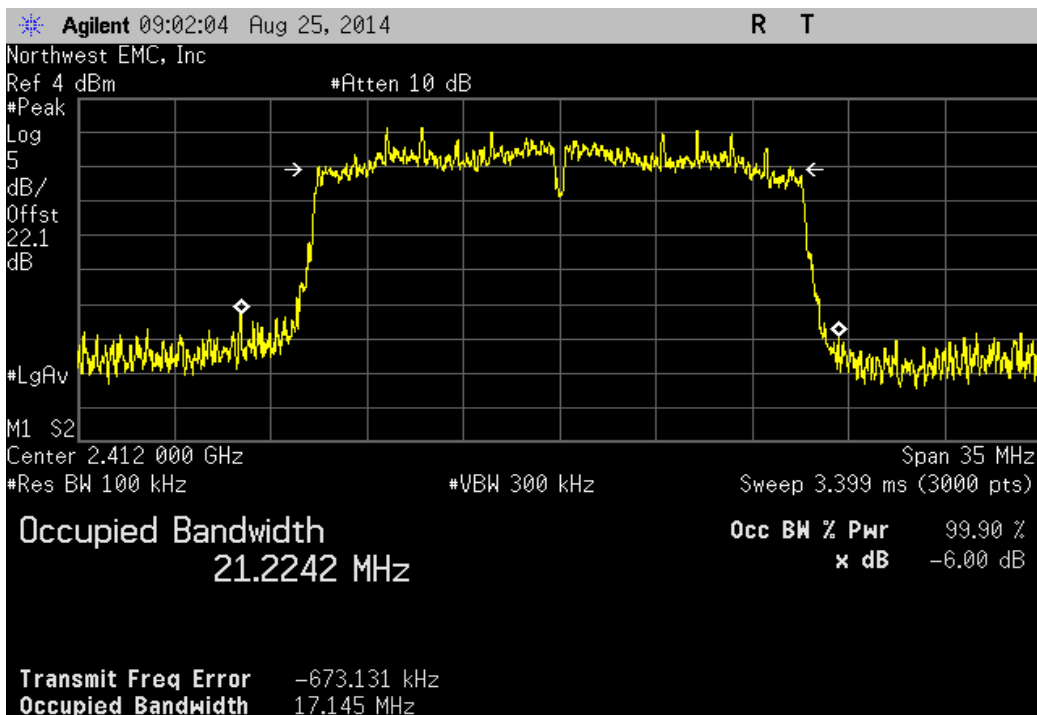
Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

	Value	Limit (>)	Result
	16.002 MHz	500 kHz	Pass



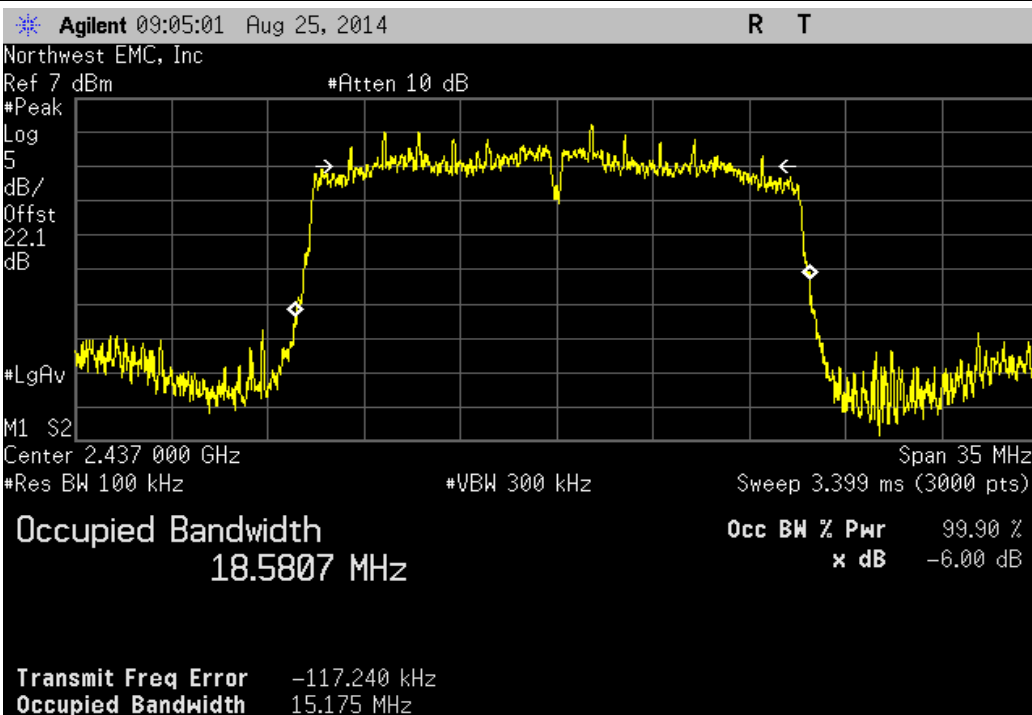
Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz

	Value	Limit (>)	Result
	17.145 MHz	500 kHz	Pass



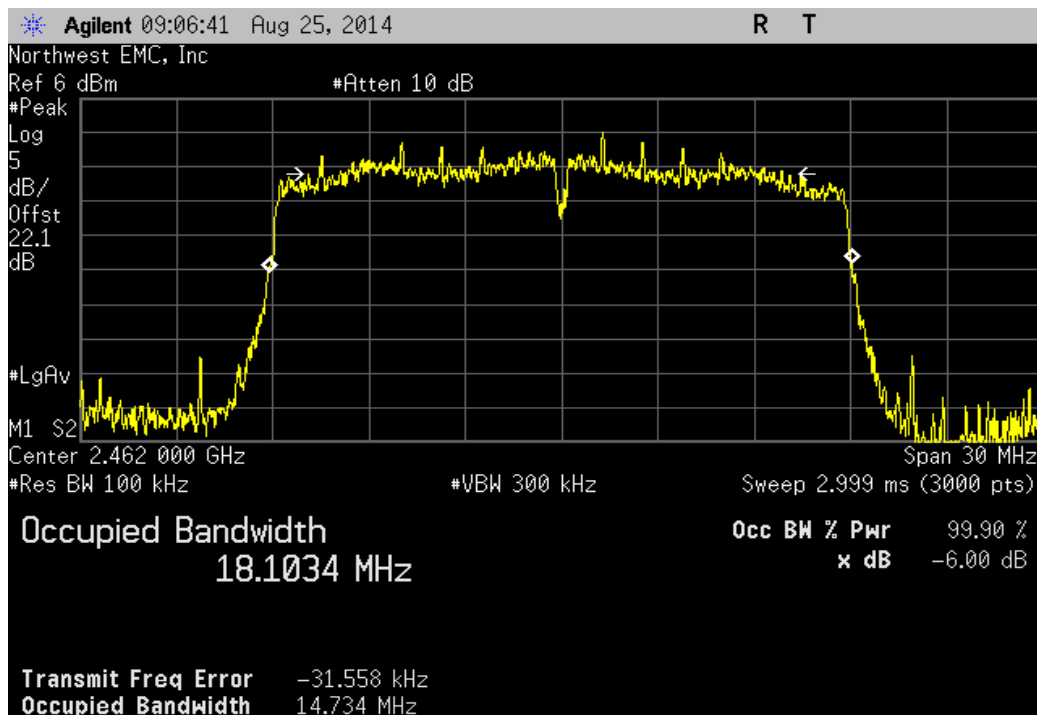
Antenna 0, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

Value	Limit (>)	Result
15.175 MHz	500 kHz	Pass



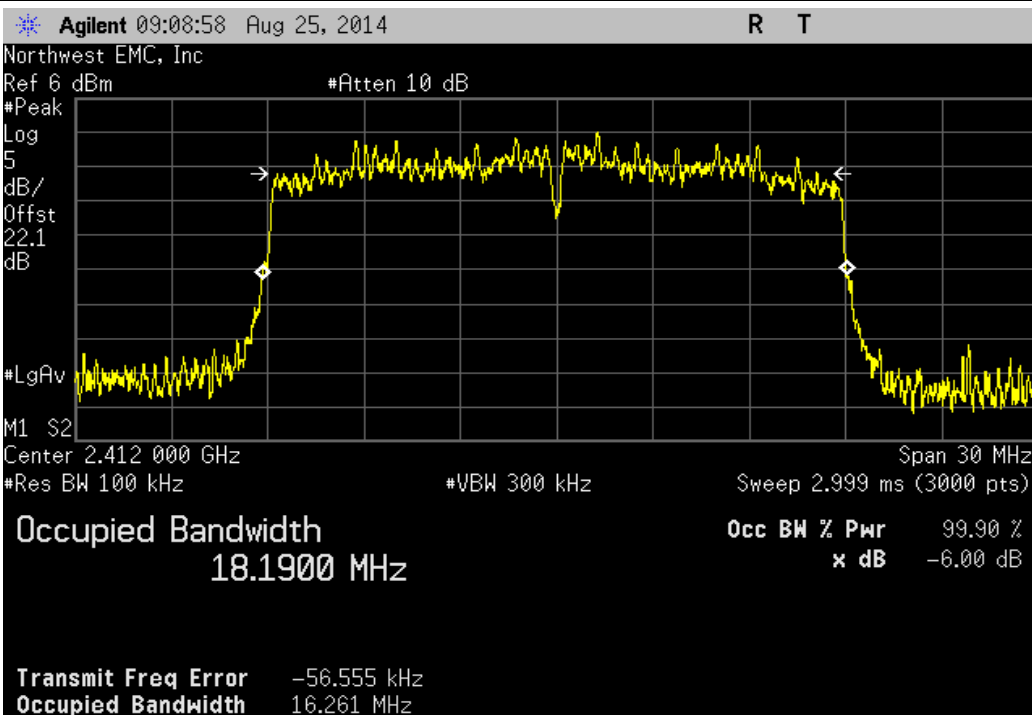
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value	Limit (>)	Result
14.734 MHz	500 kHz	Pass



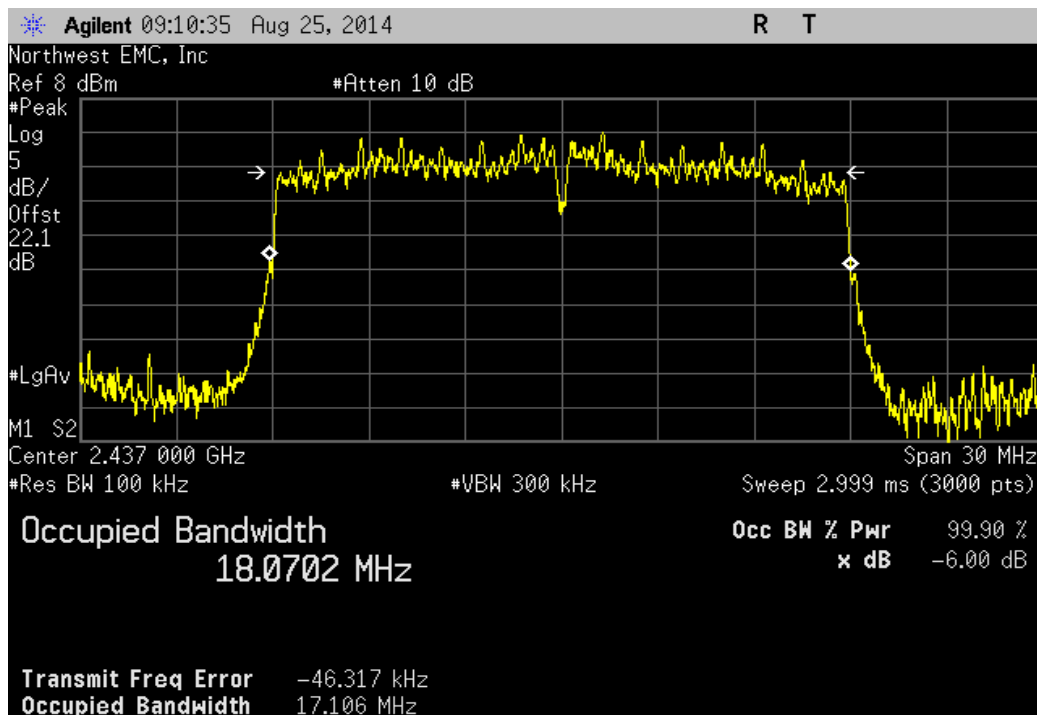
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit (>)	Result
16.261 MHz	500 kHz	Pass



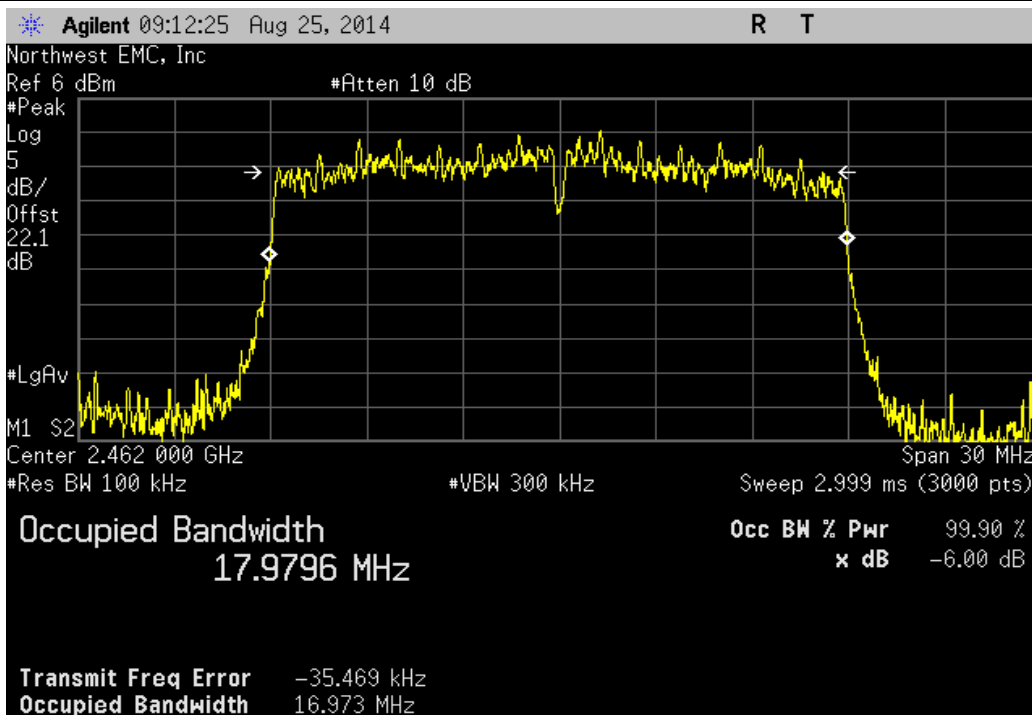
Antenna 0, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

Value	Limit (>)	Result
17.106 MHz	500 kHz	Pass



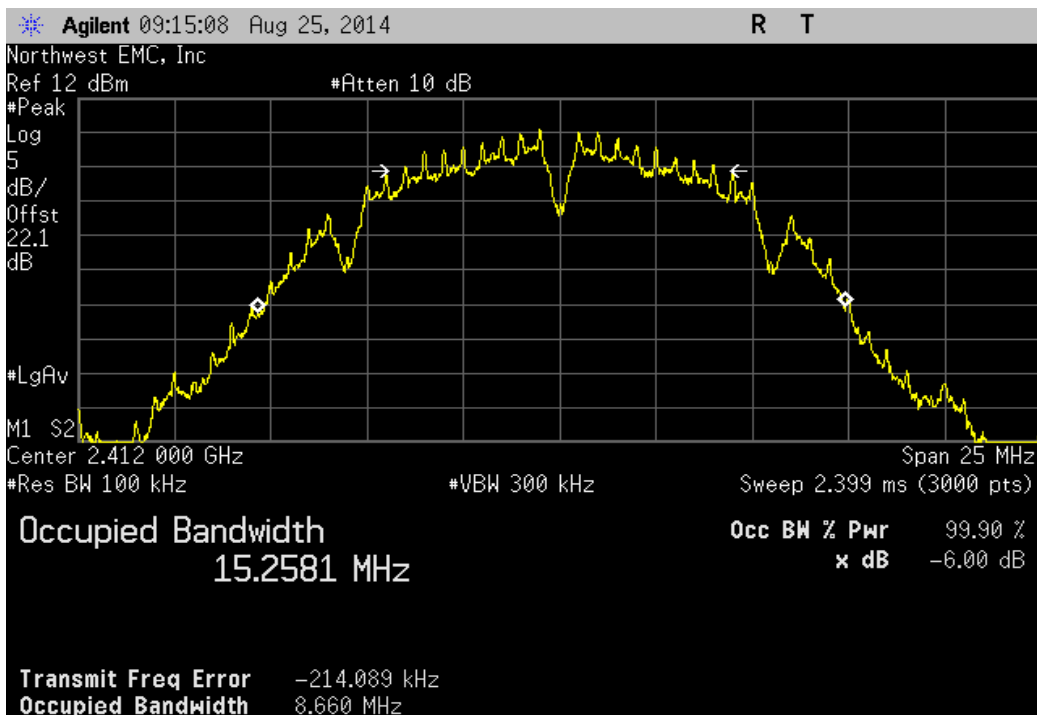
Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit (>)	Result
16.973 MHz	500 kHz	Pass



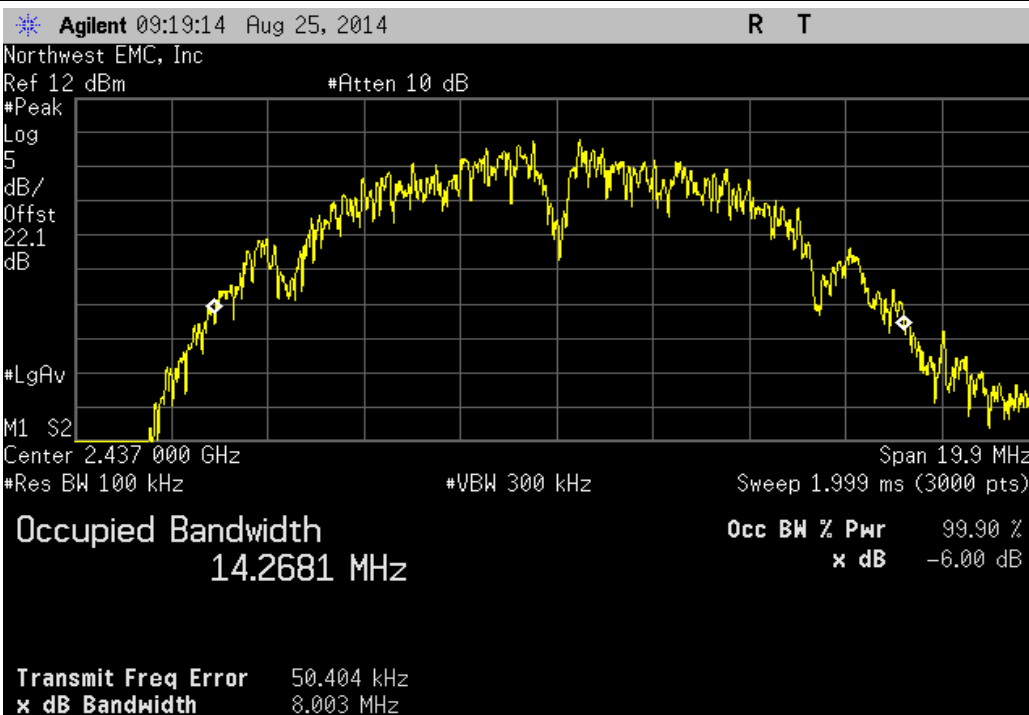
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit (>)	Result
8.66 MHz	500 kHz	Pass



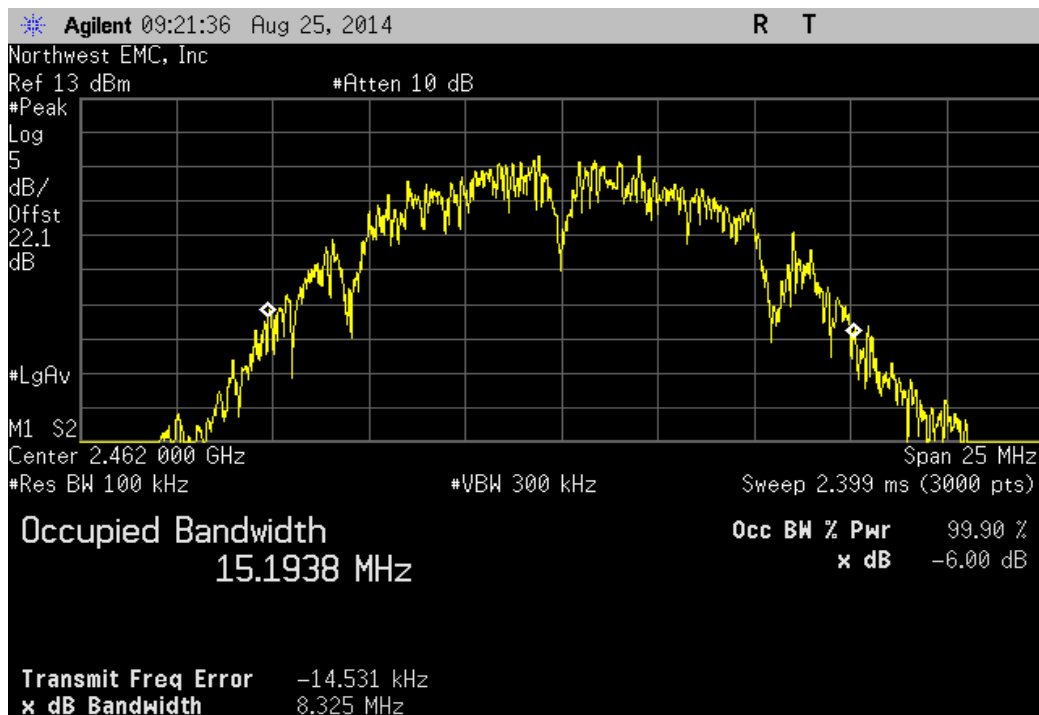
Antenna 1, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit (>)	Result
				8.003 MHz	500 kHz	Pass



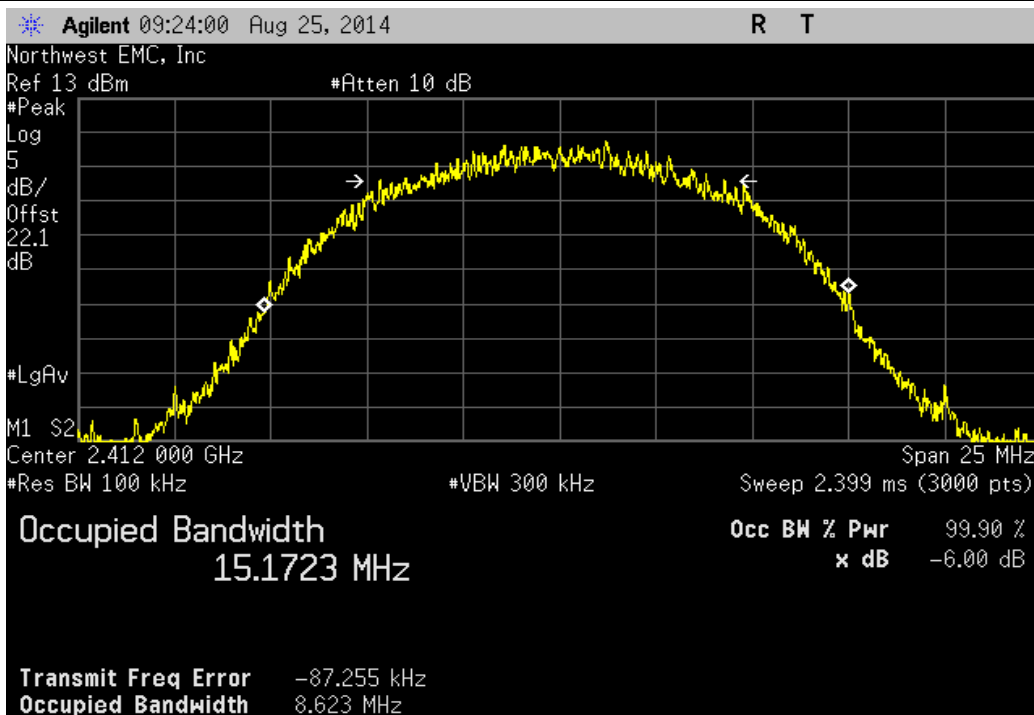
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

				Value	Limit (>)	Result
				8.325 MHz	500 kHz	Pass



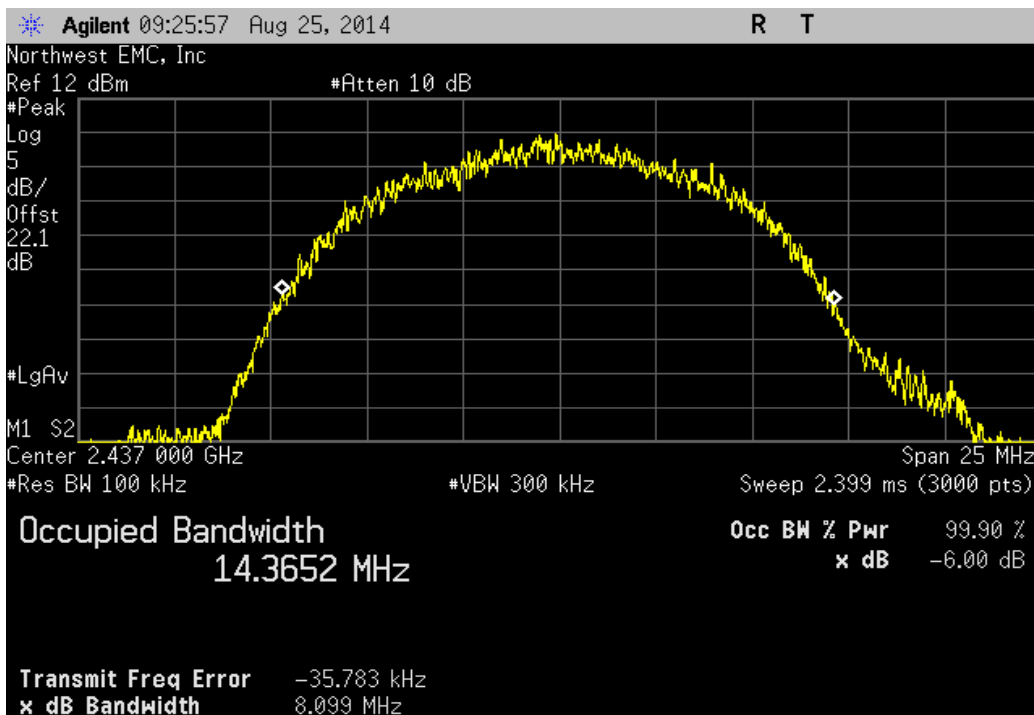
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (>)	Result
	8.623 MHz	500 kHz	Pass



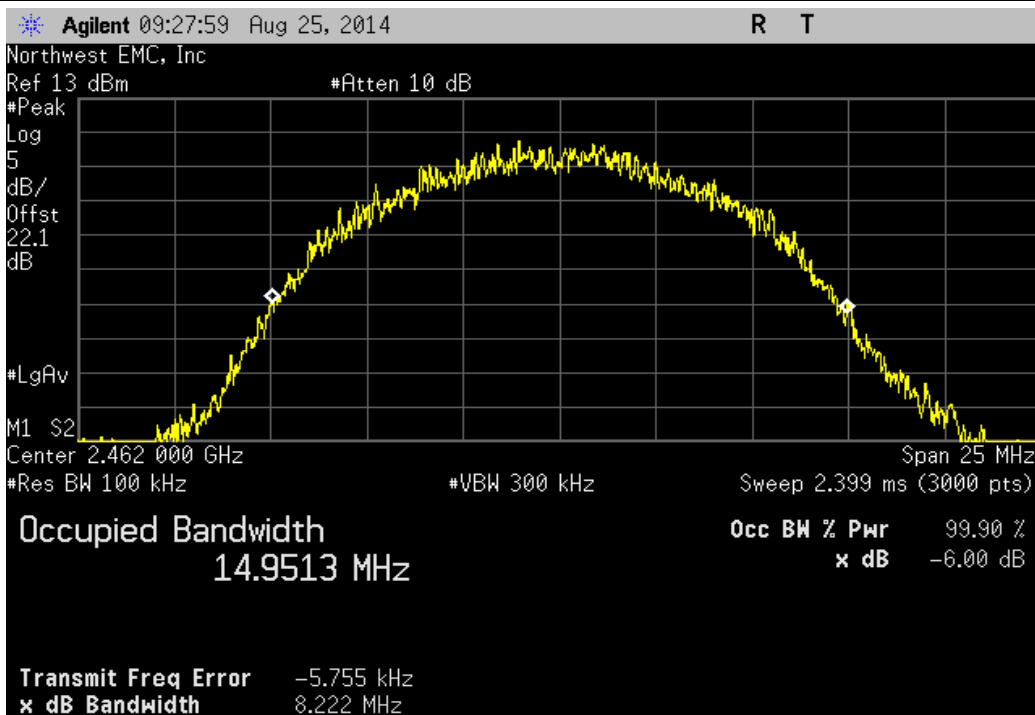
Antenna 1, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit (>)	Result
	8.099 MHz	500 kHz	Pass



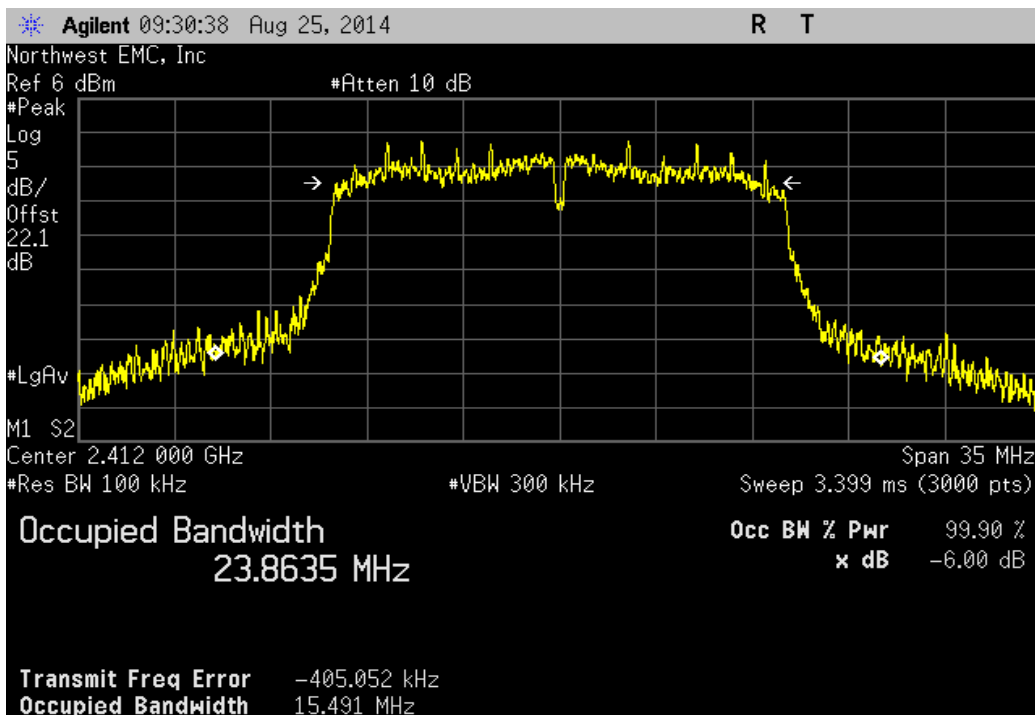
Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

	Value	Limit (>)	Result
	8.222 MHz	500 kHz	Pass



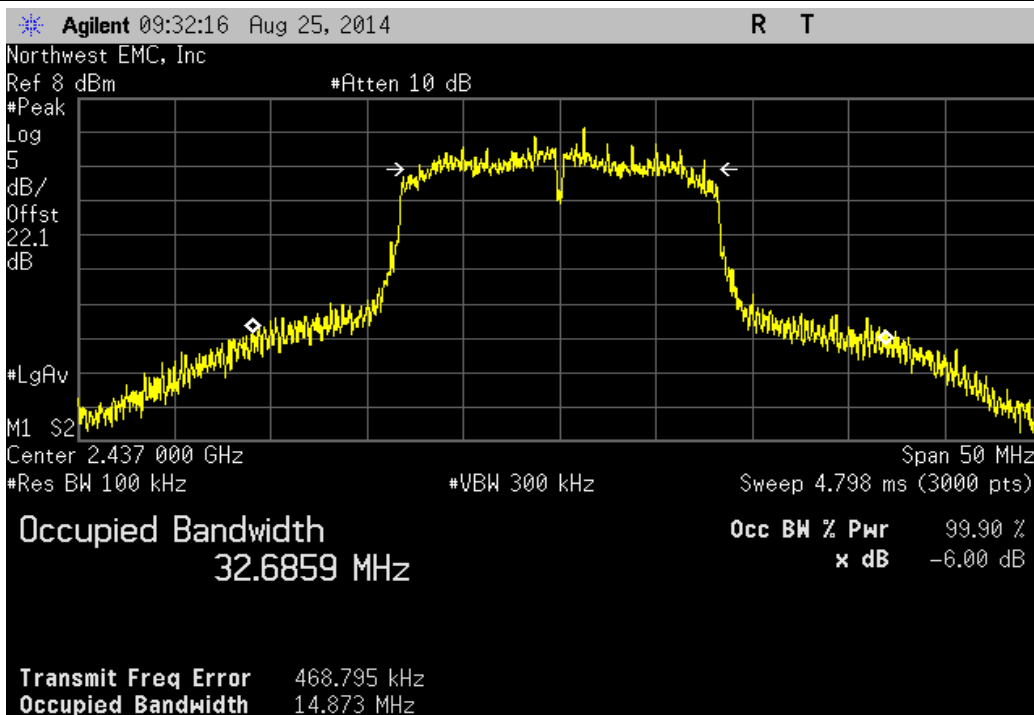
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (>)	Result
	15.491 MHz	500 kHz	Pass



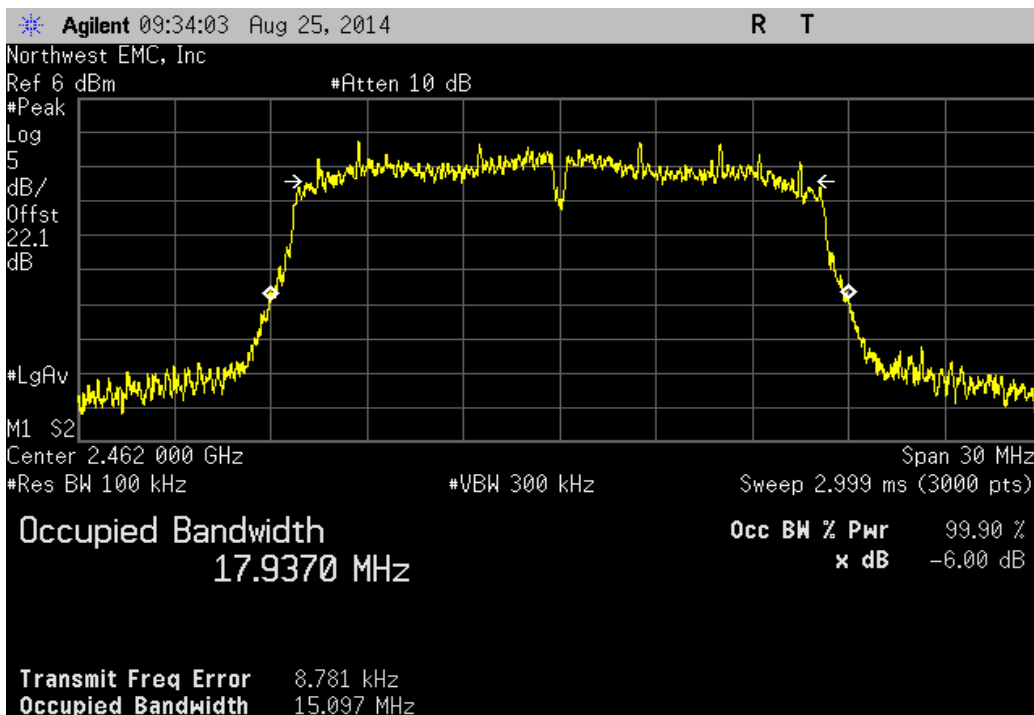
Antenna 1, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit (>)	Result
				14.873 MHz	500 kHz	Pass



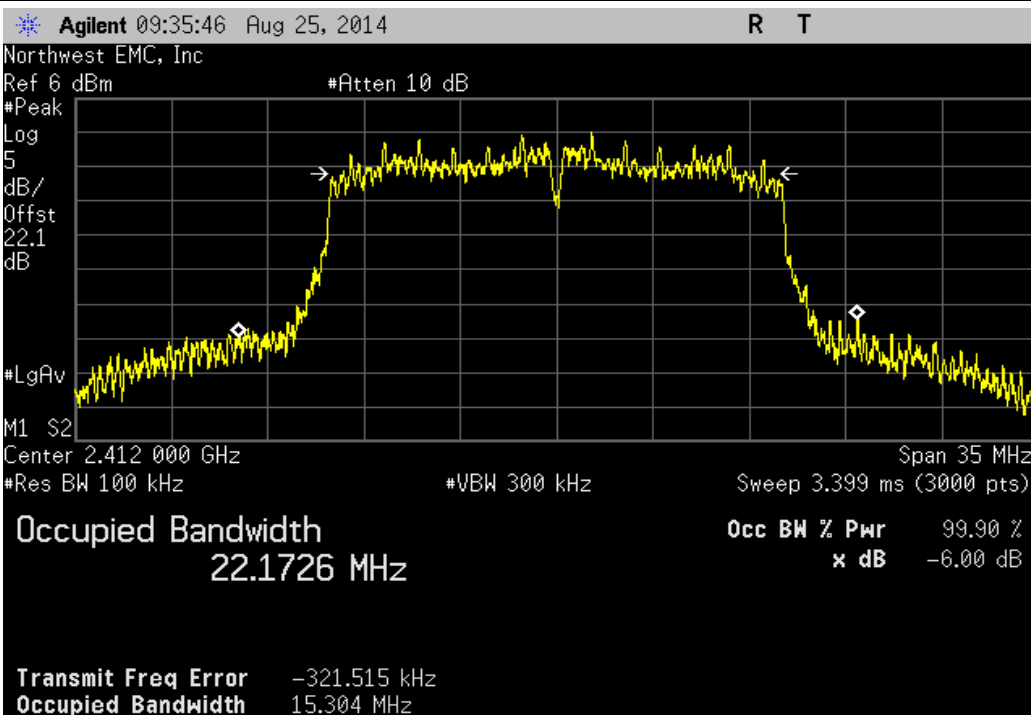
Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit (>)	Result
				15.097 MHz	500 kHz	Pass



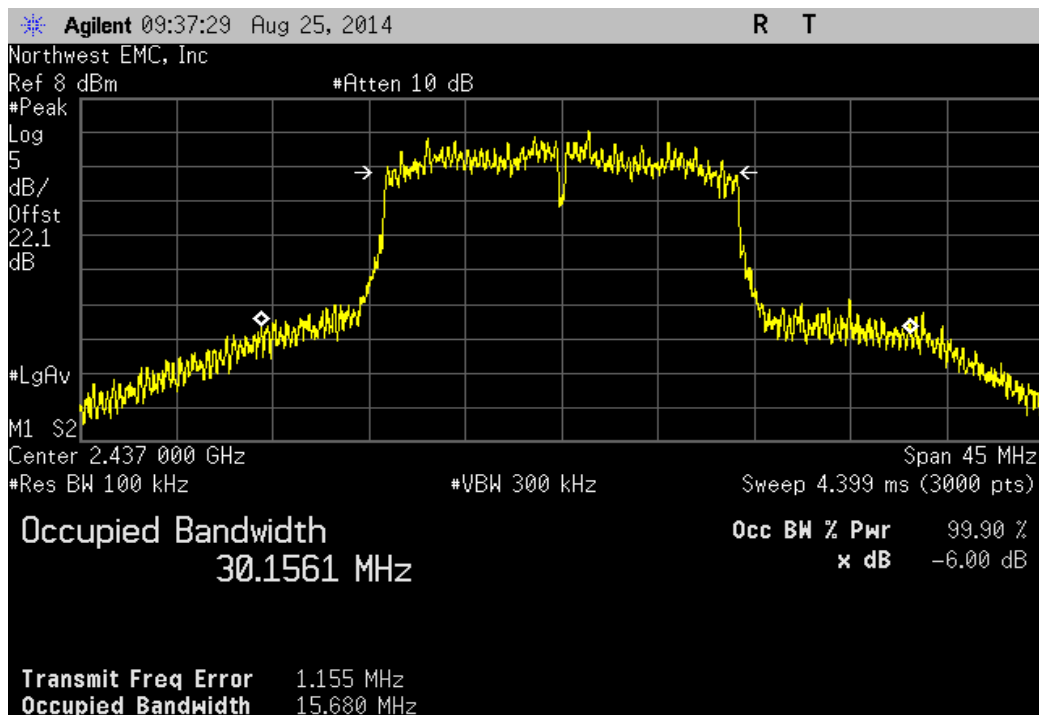
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit (>)	Result
15.304 MHz	500 kHz	Pass



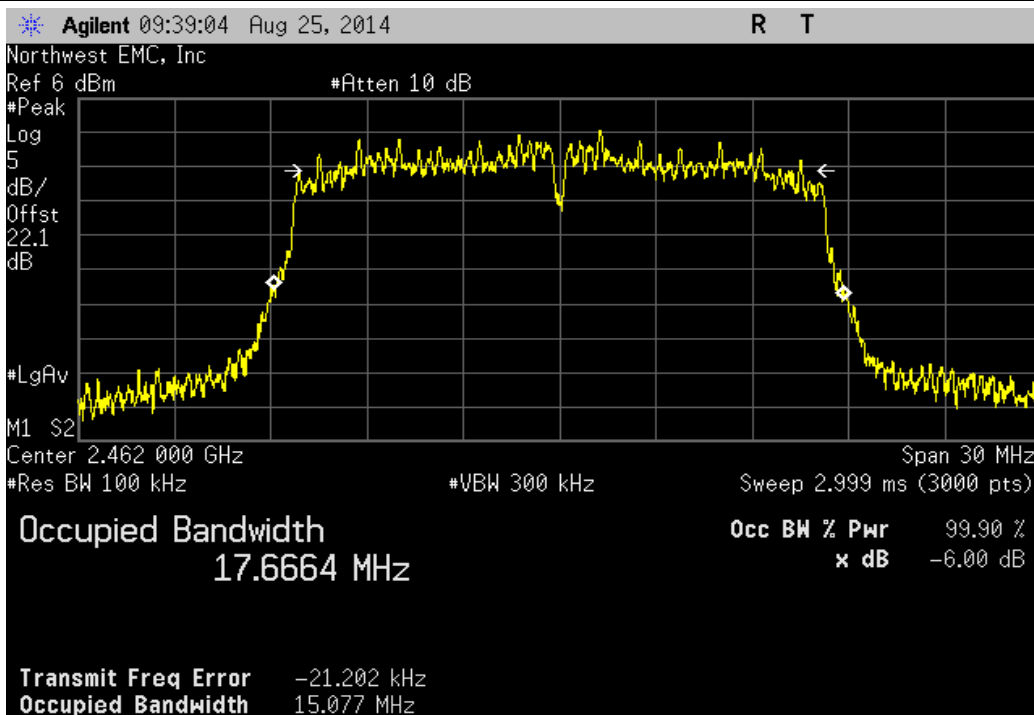
Antenna 1, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (>)	Result
15.68 MHz	500 kHz	Pass



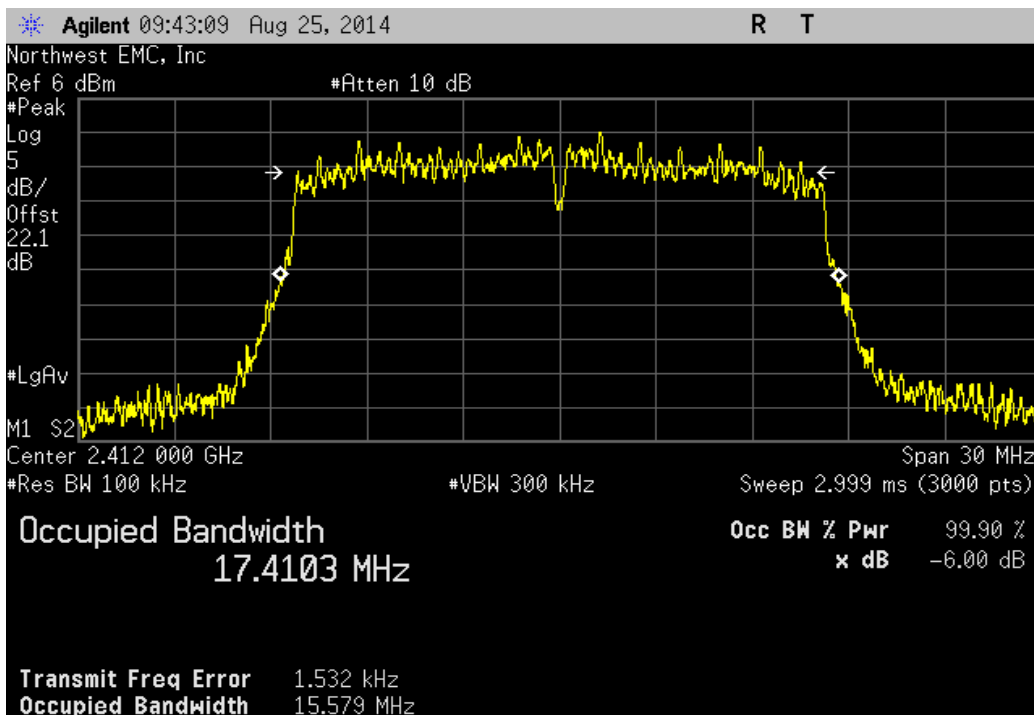
Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

	Value	Limit (>)	Result
	15.077 MHz	500 kHz	Pass



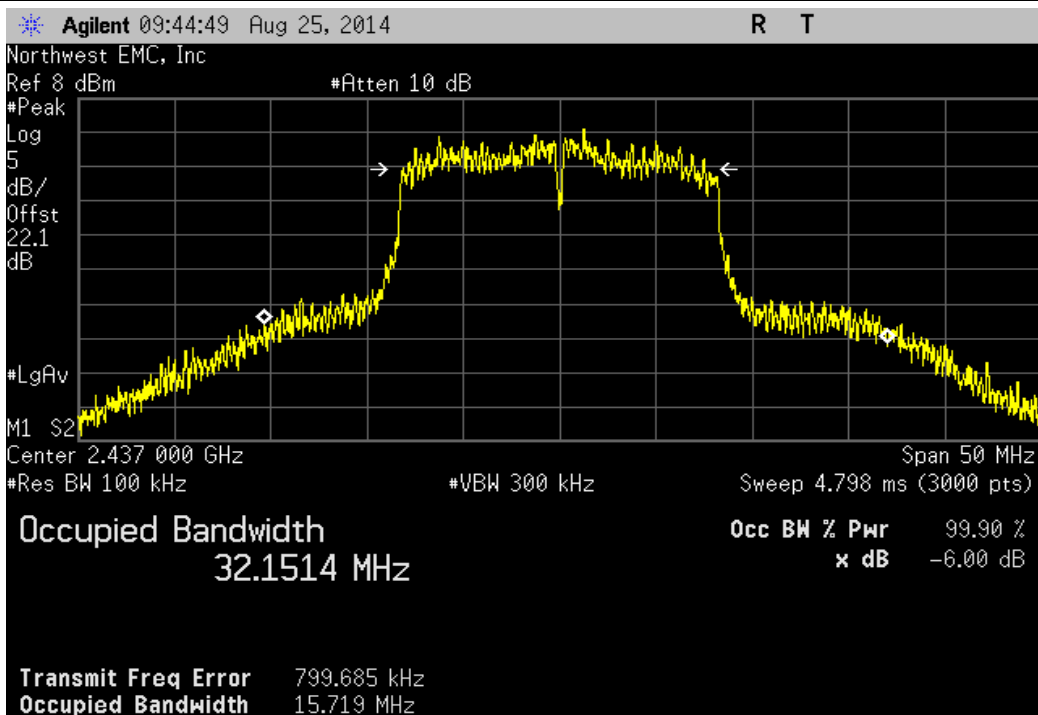
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (>)	Result
	15.579 MHz	500 kHz	Pass



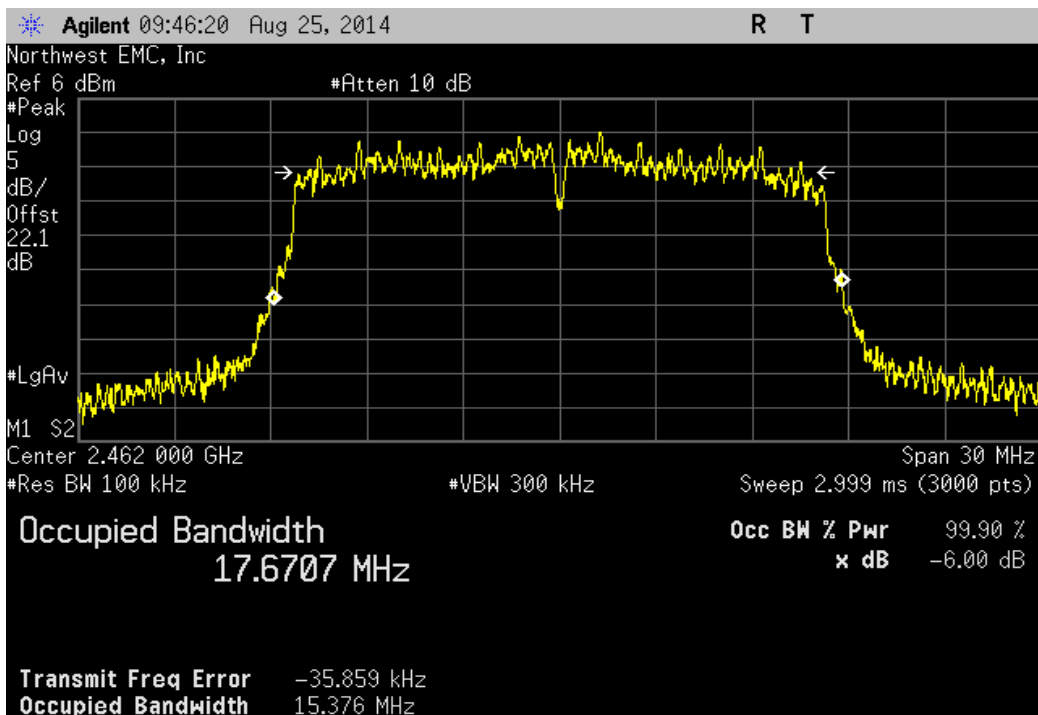
Antenna 1, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit (>)	Result
	15.719 MHz	500 kHz	Pass



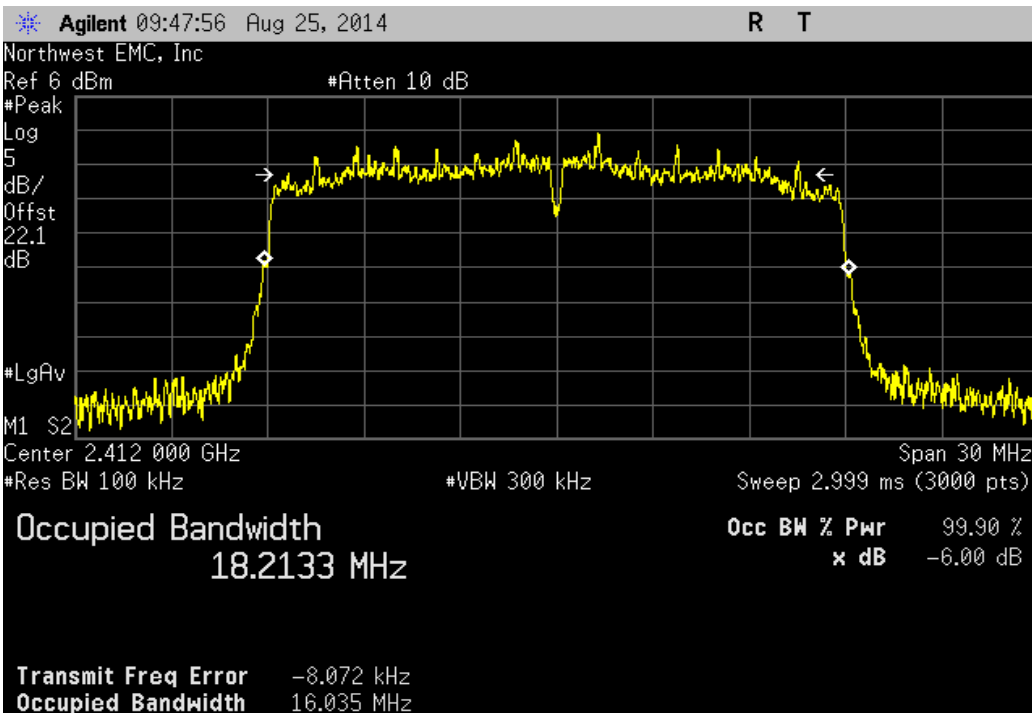
Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

	Value	Limit (>)	Result
	15.376 MHz	500 kHz	Pass



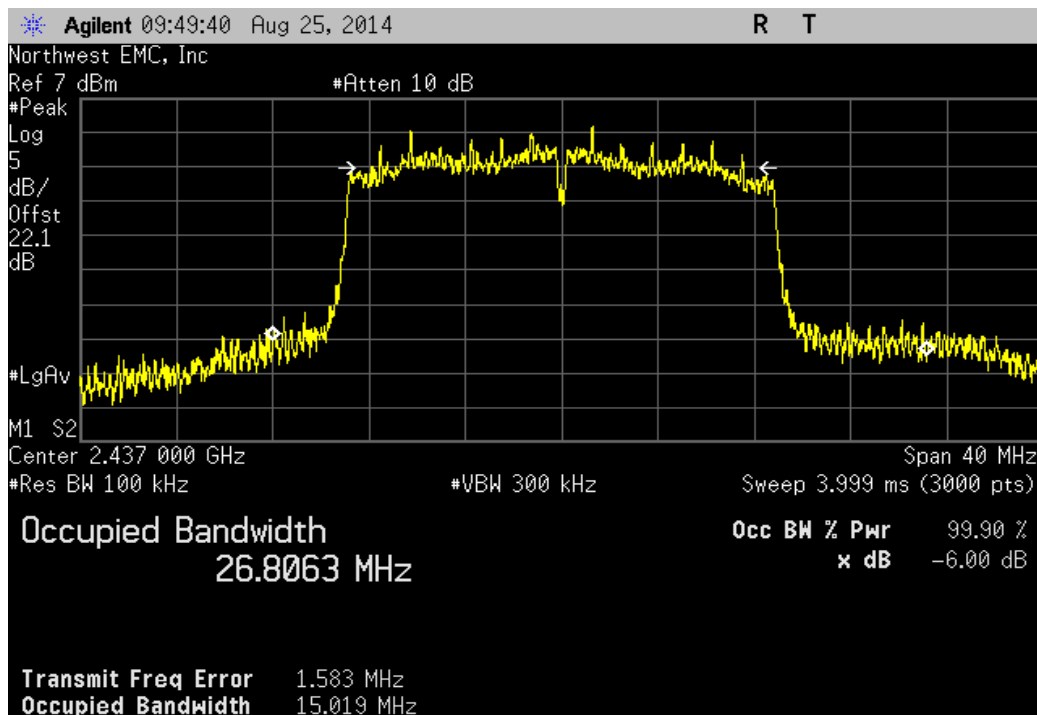
Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value	Limit (>)	Result
16.035 MHz	500 kHz	Pass



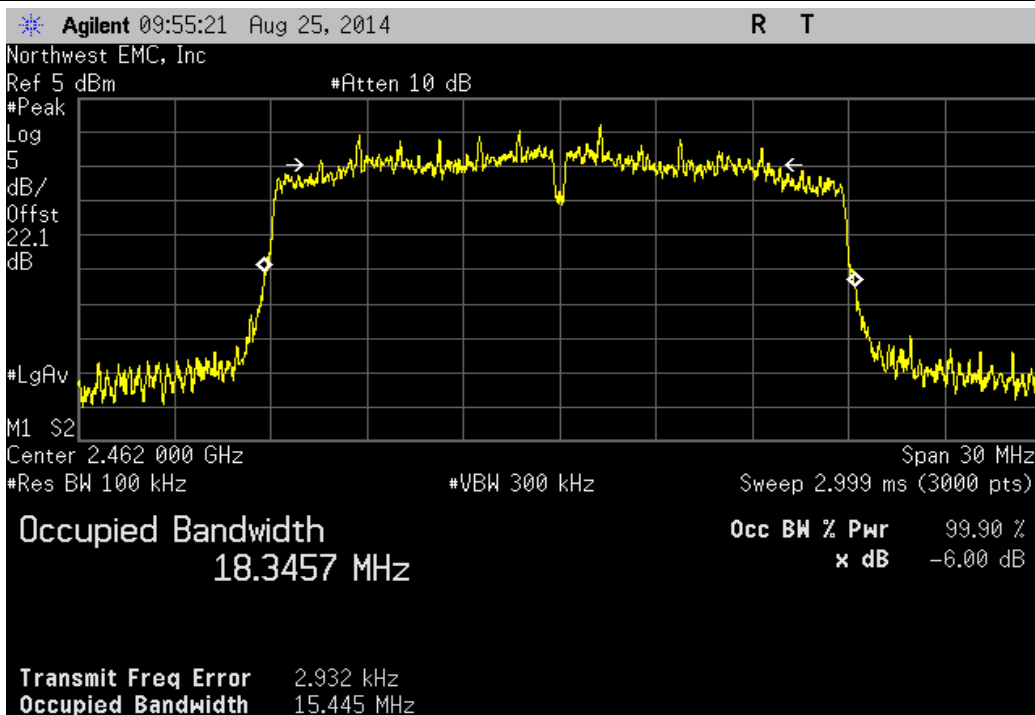
Antenna 1, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

Value	Limit (>)	Result
15.019 MHz	500 kHz	Pass



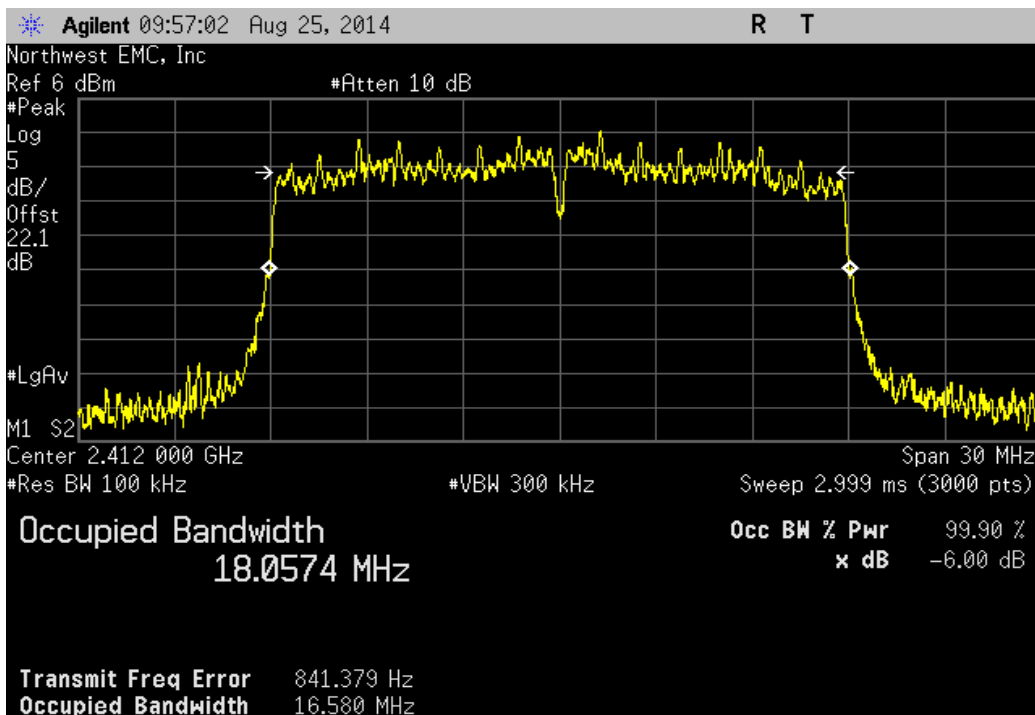
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz

				Value	Limit (>)	Result
				15.445 MHz	500 kHz	Pass



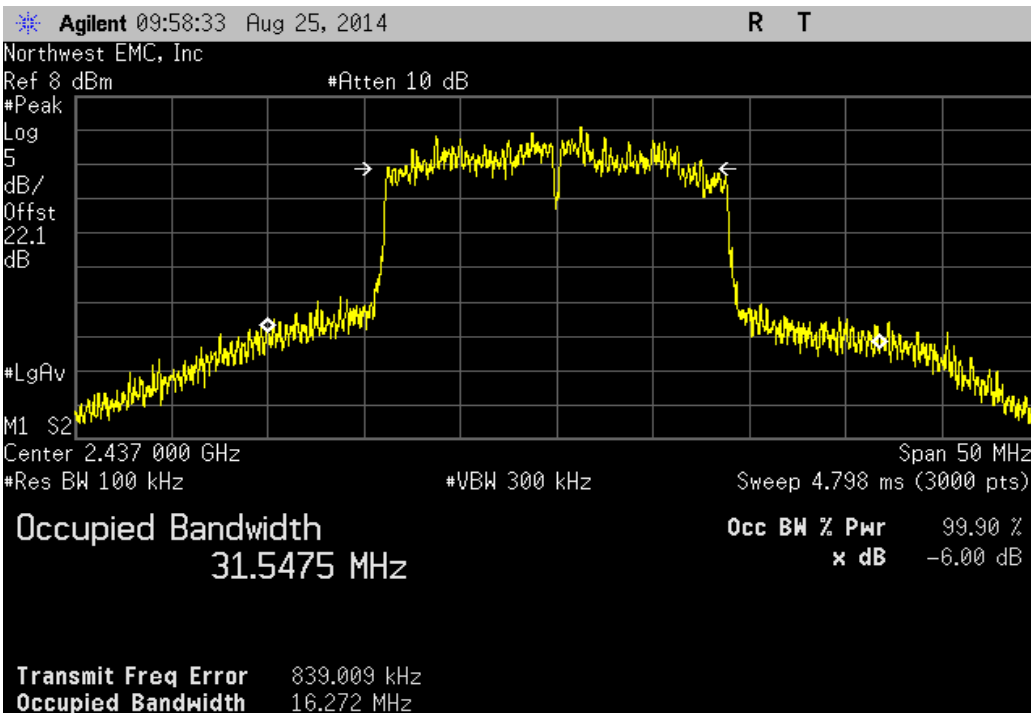
Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz

				Value	Limit (>)	Result
				16.58 MHz	500 kHz	Pass



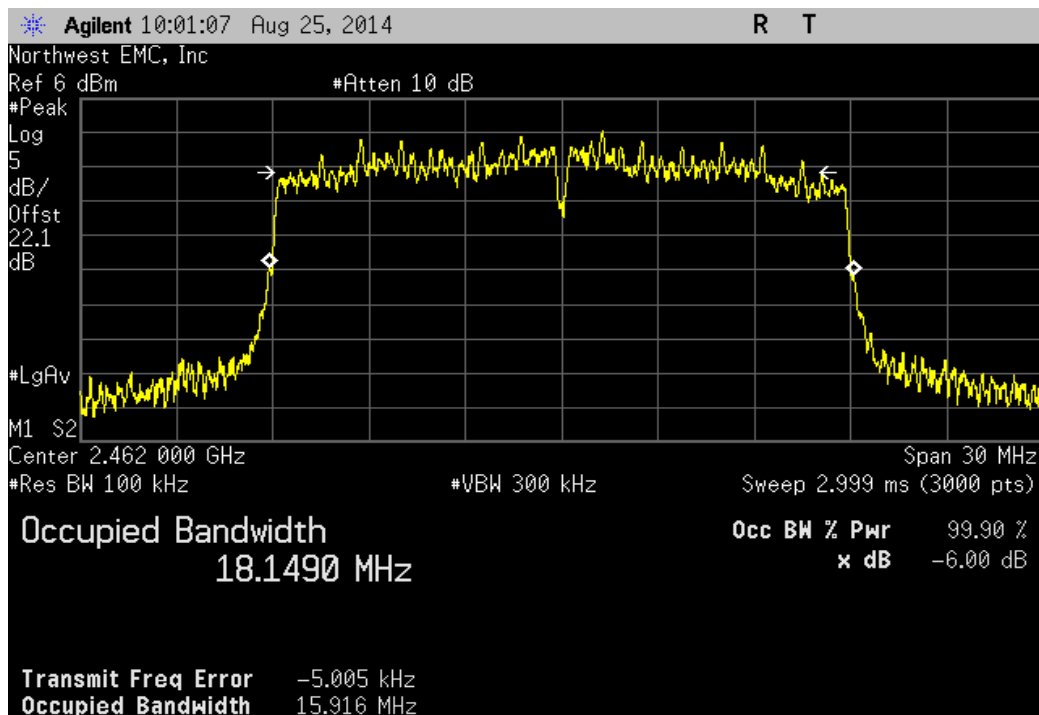
Antenna 1, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

Value	Limit (>)	Result
16.272 MHz	500 kHz	Pass



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit (>)	Result
15.916 MHz	500 kHz	Pass



OUTPUT 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 (mo)
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The channel power integration method found in KDB 558074 DTS D01 Measurement Section 9.1.2 was used because the DTS Bandwidth of the radio was greater than the RBW on the analyzer.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.



OUTPUT POWER

XMit 2014.02.07
NweTx 2014.07.18.3

EUT: RTH9580WF01	Work Order: HNYW0108
Serial Number: P24	Date: 08/25/14
Customer: Honeywell, Automation and Control Solutions	Temperature: 23.4°C
Attendees: None	Humidity: 57%
Project: None	Barometric Pres.: 1017.2
Tested by: Trevor Buls	Power: 110VAC/60Hz
	Job Site: MN08

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

Configuration #	2	Signature <i>Trevor Buls</i>
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	Value	Limit (<)	Result
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Antenna 0

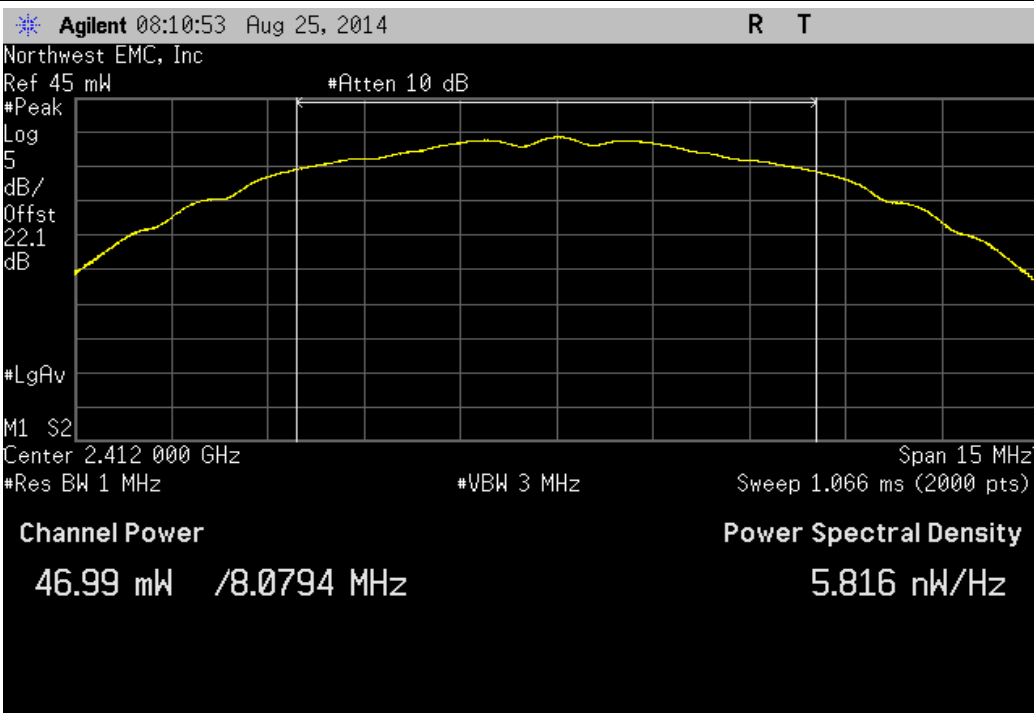
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	46.993 mW	1 W	Pass
Mid Channel 6, 2437 MHz	50.326 mW	1 W	Pass
High Channel 11, 2462 MHz	48.599 mW	1 W	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	46.095 mW	1 W	Pass
Mid Channel 6, 2437 MHz	48.665 mW	1 W	Pass
High Channel 11, 2462 MHz	45.989 mW	1 W	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	19.498 mW	1 W	Pass
Mid Channel 6, 2437 MHz	32.408 mW	1 W	Pass
High Channel 11, 2462 MHz	19.458 mW	1 W	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	19.449 mW	1 W	Pass
Mid Channel 6, 2437 MHz	31.64 mW	1 W	Pass
High Channel 11, 2462 MHz	19.618 mW	1 W	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	20.031 mW	1 W	Pass
Mid Channel 6, 2437 MHz	31.534 mW	1 W	Pass
High Channel 11, 2462 MHz	20.02 mW	1 W	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	18.885 mW	1 W	Pass
Mid Channel 6, 2437 MHz	29.244 mW	1 W	Pass
High Channel 11, 2462 MHz	17.887 mW	1 W	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	18.492 mW	1 W	Pass
Mid Channel 6, 2437 MHz	31.34 mW	1 W	Pass
High Channel 11, 2462 MHz	19.542 mW	1 W	Pass

Antenna 1

802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	46.177 mW	1 W	Pass
Mid Channel 6, 2437 MHz	48.723 mW	1 W	Pass
High Channel 11, 2462 MHz	47.973 mW	1 W	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	45.483 mW	1 W	Pass
Mid Channel 6, 2437 MHz	45.305 mW	1 W	Pass
High Channel 11, 2462 MHz	45.069 mW	1 W	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	18.299 mW	1 W	Pass
Mid Channel 6, 2437 MHz	33.212 mW	1 W	Pass
High Channel 11, 2462 MHz	19.125 mW	1 W	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	18.064 mW	1 W	Pass
Mid Channel 6, 2437 MHz	34.15 mW	1 W	Pass
High Channel 11, 2462 MHz	19.312 mW	1 W	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	18.784 mW	1 W	Pass
Mid Channel 6, 2437 MHz	36.27 mW	1 W	Pass
High Channel 11, 2462 MHz	19.238 mW	1 W	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	17.376 mW	1 W	Pass
Mid Channel 6, 2437 MHz	29.208 mW	1 W	Pass
High Channel 11, 2462 MHz	18.411 mW	1 W	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	17.671 mW	1 W	Pass
Mid Channel 6, 2437 MHz	33.123 mW	1 W	Pass
High Channel 11, 2462 MHz	18.965 mW	1 W	Pass

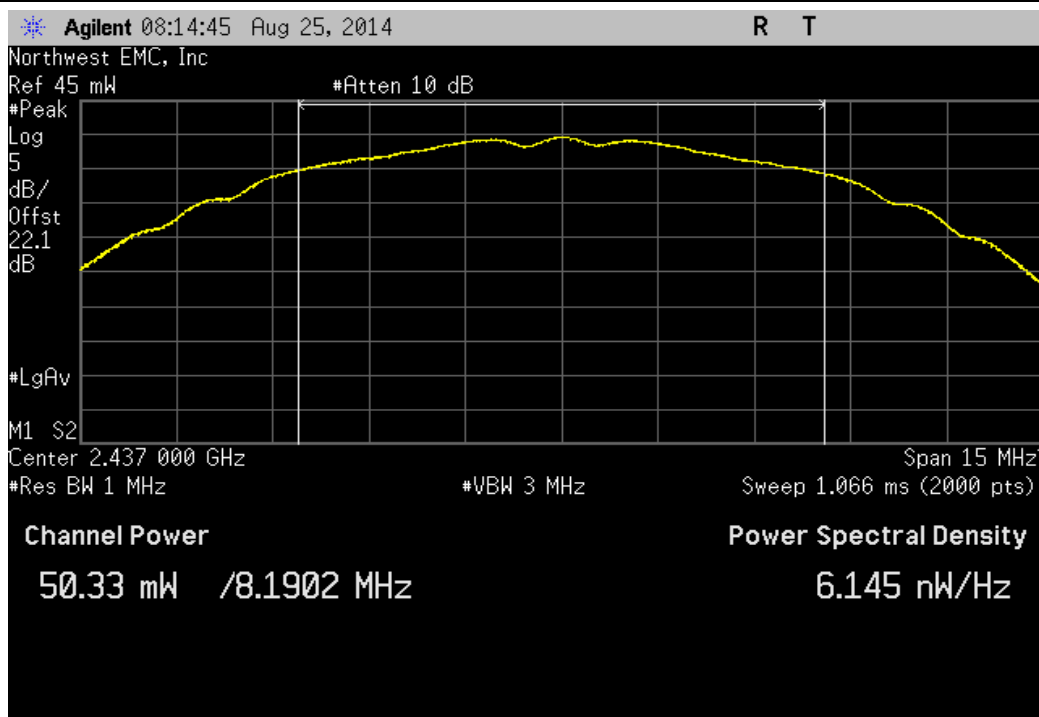
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (<)	Result
	46.993 mW	1 W	Pass



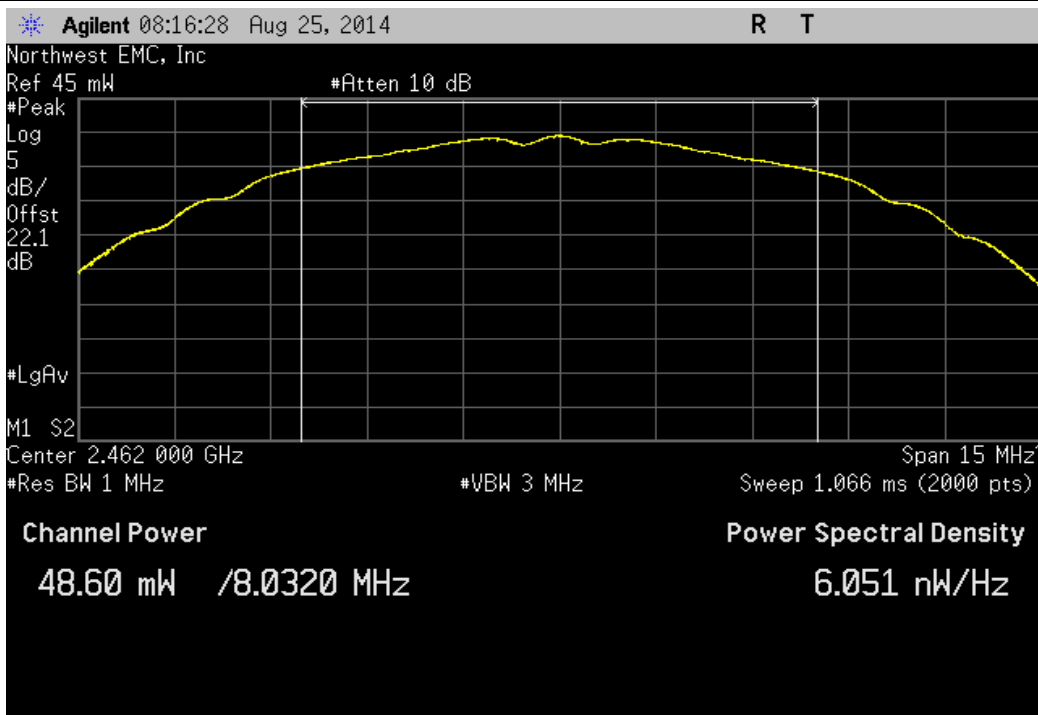
Antenna 0, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit (<)	Result
	50.326 mW	1 W	Pass



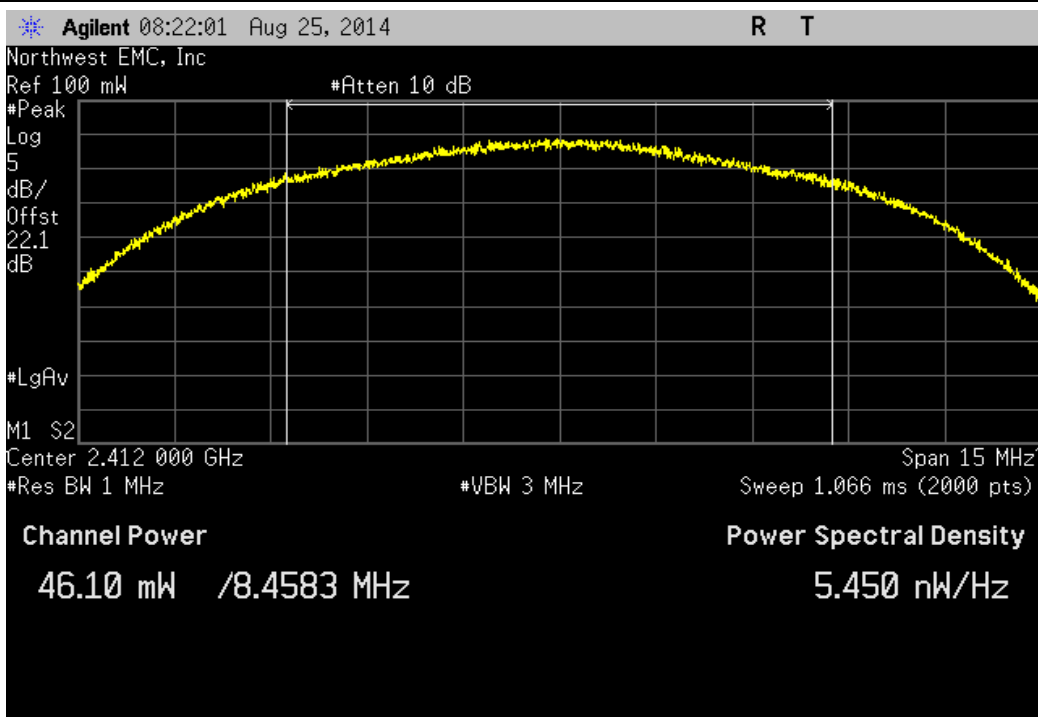
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

	Value	Limit (<)	Result
	48.599 mW	1 W	Pass



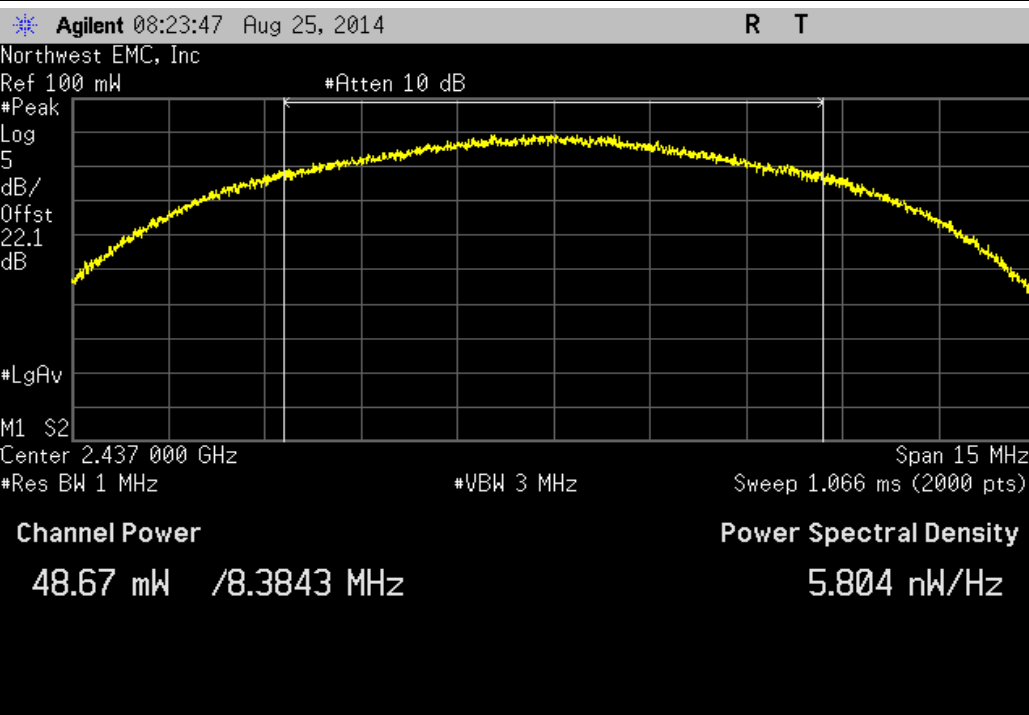
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (<)	Result
	46.095 mW	1 W	Pass



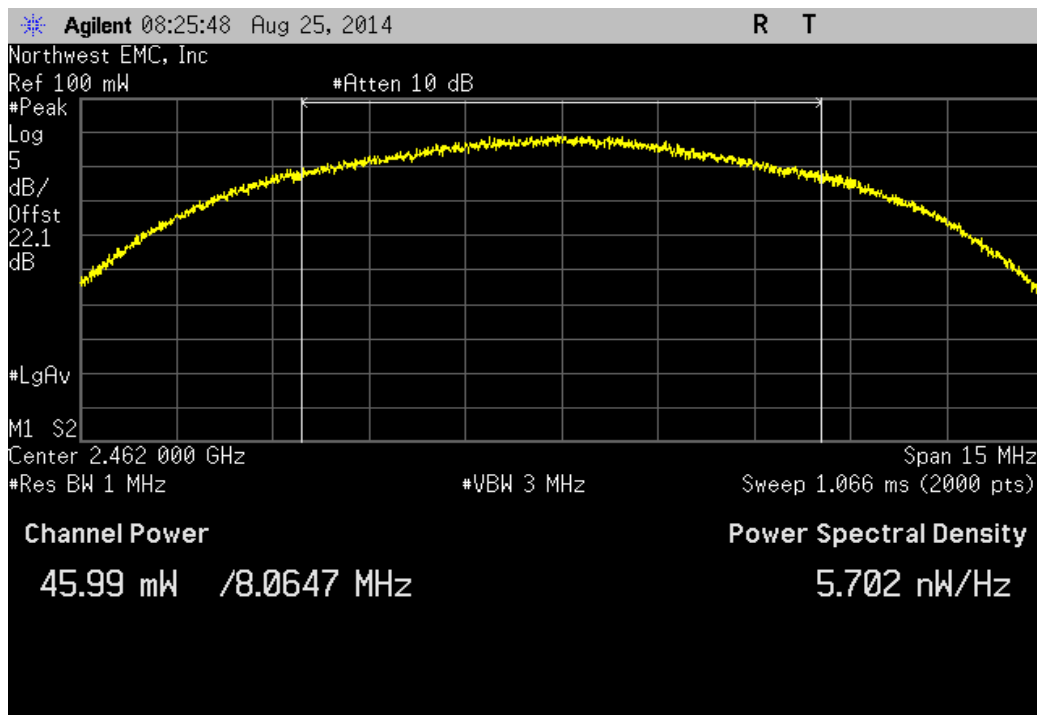
Antenna 0, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
48.665 mW	1 W	Pass



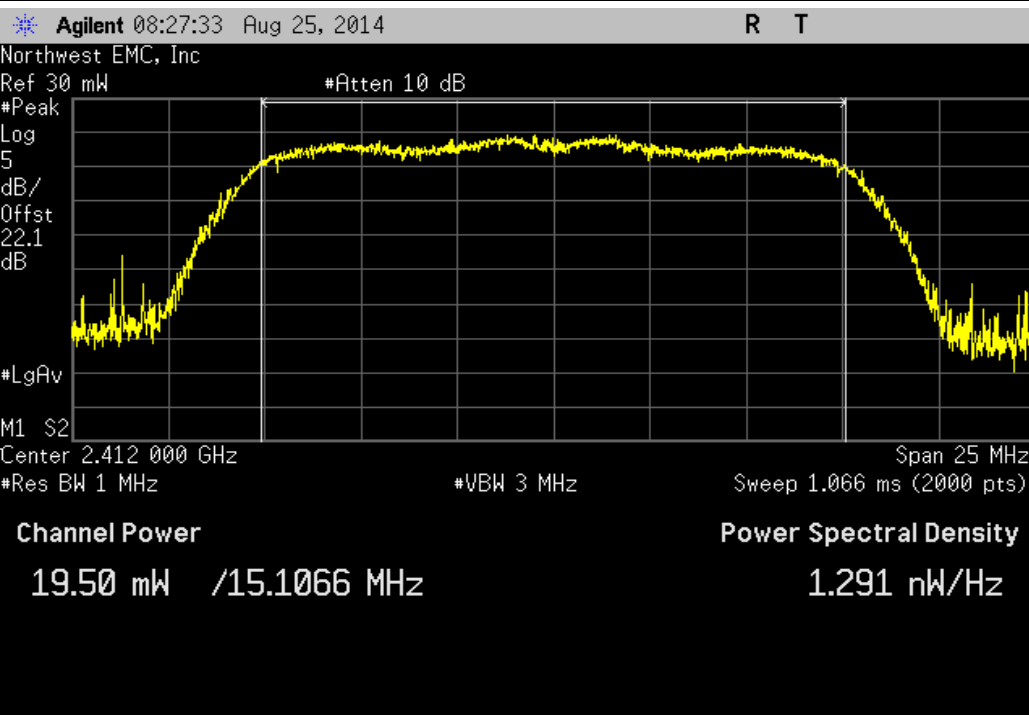
Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit (<)	Result
45.989 mW	1 W	Pass



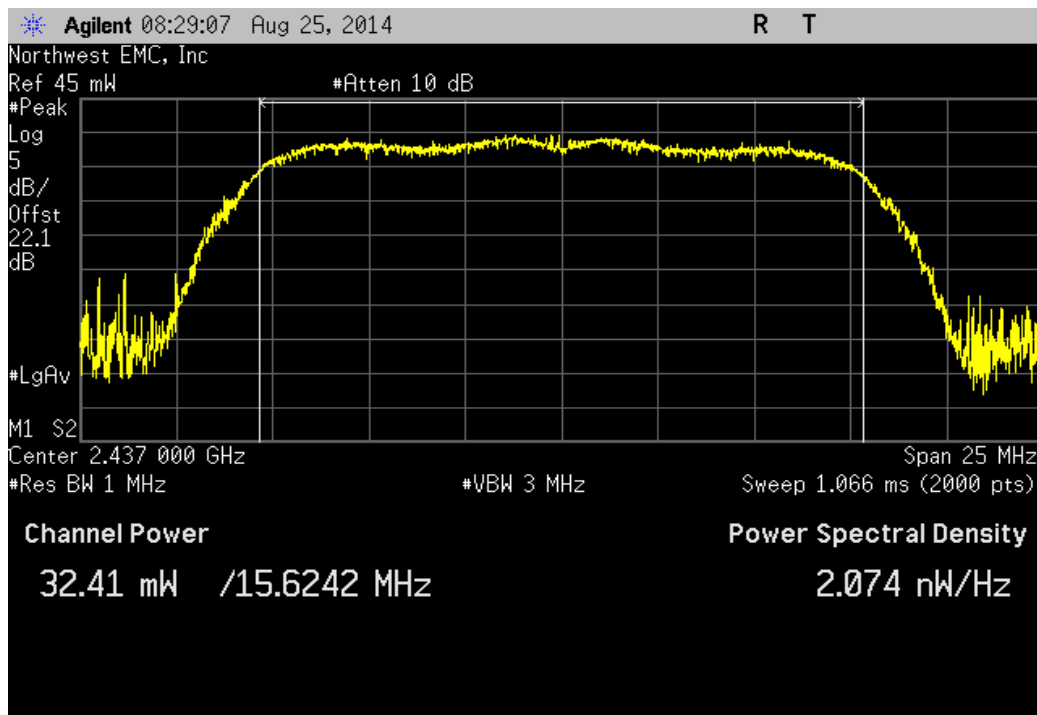
Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
19.498 mW	1 W	Pass



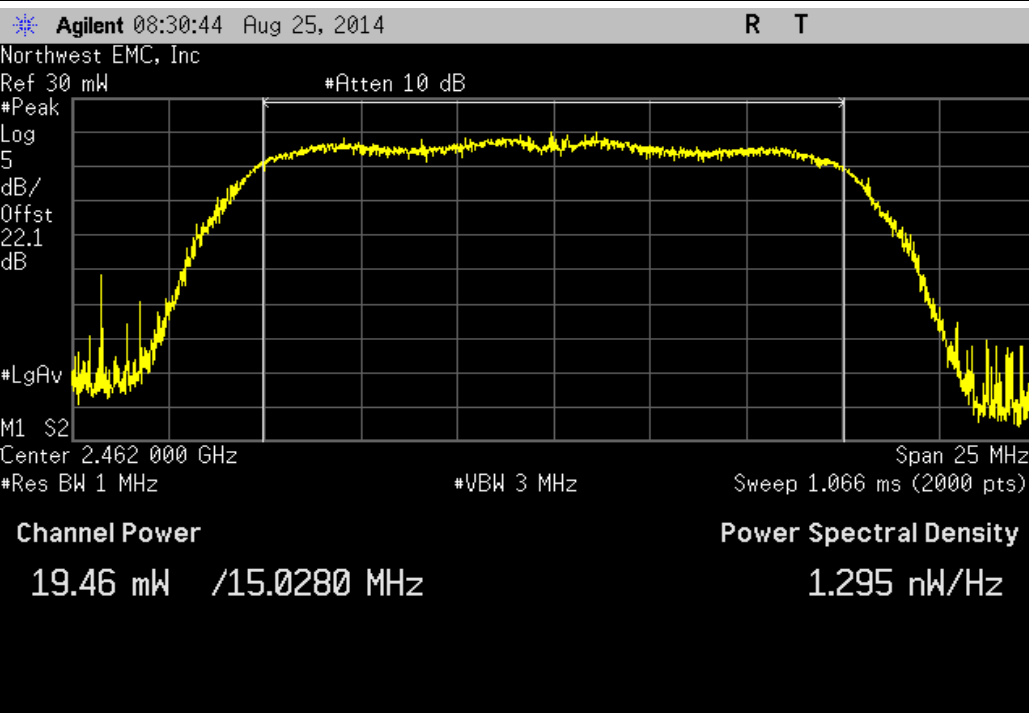
Antenna 0, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
32.408 mW	1 W	Pass



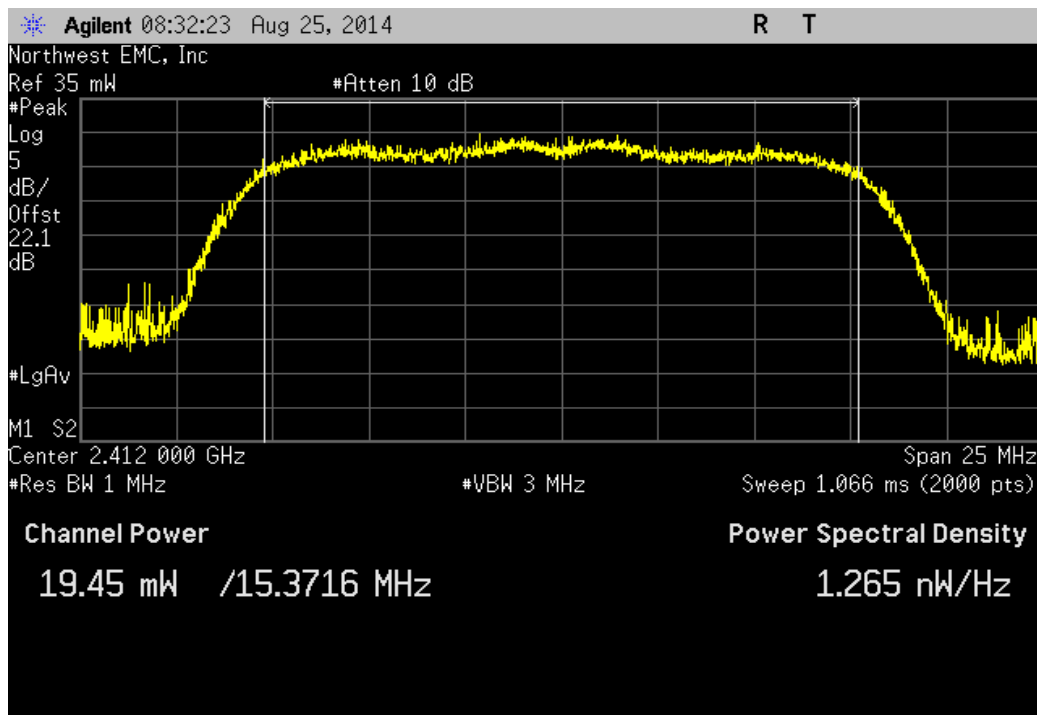
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit (<)	Result
19.458 mW	1 W	Pass



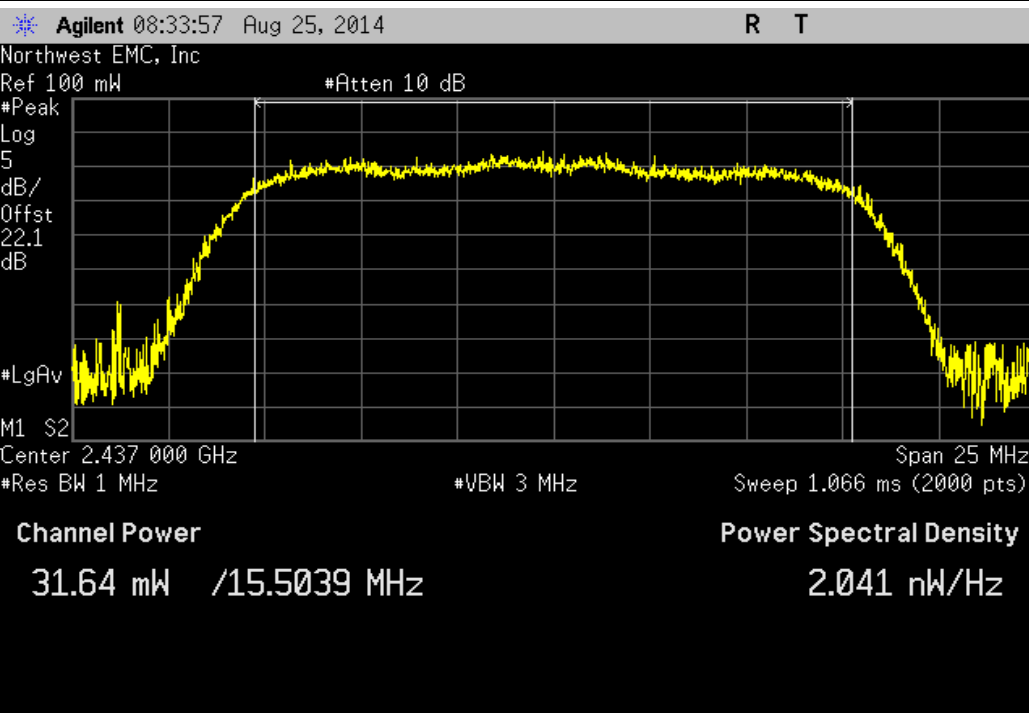
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
19.449 mW	1 W	Pass



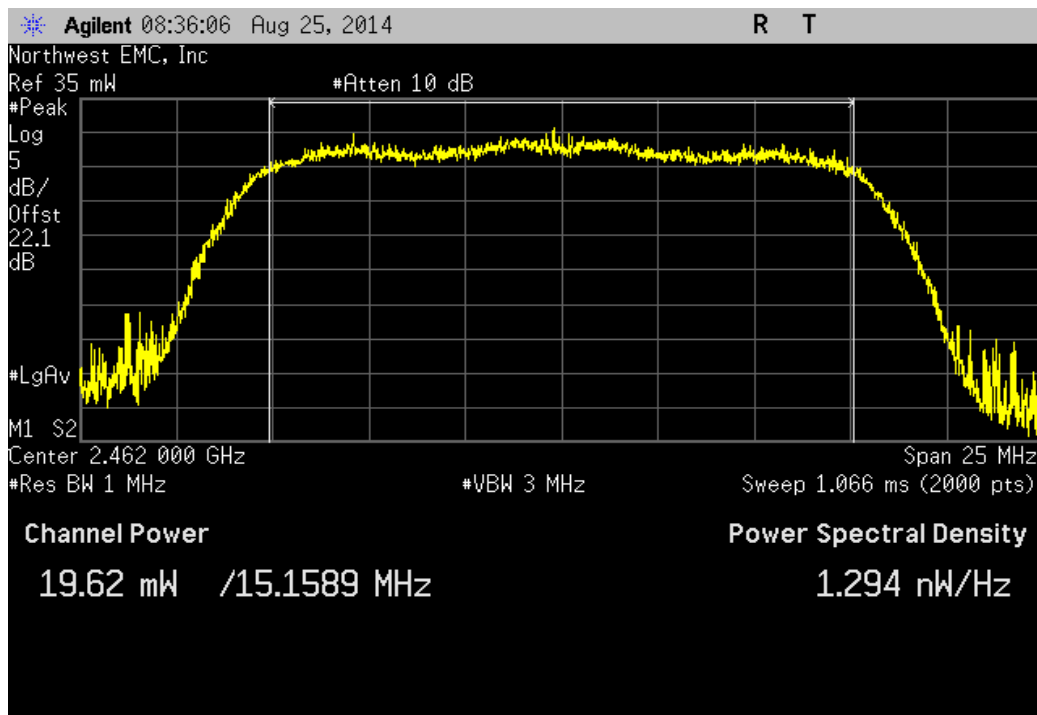
Antenna 0, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
31.64 mW	1 W	Pass



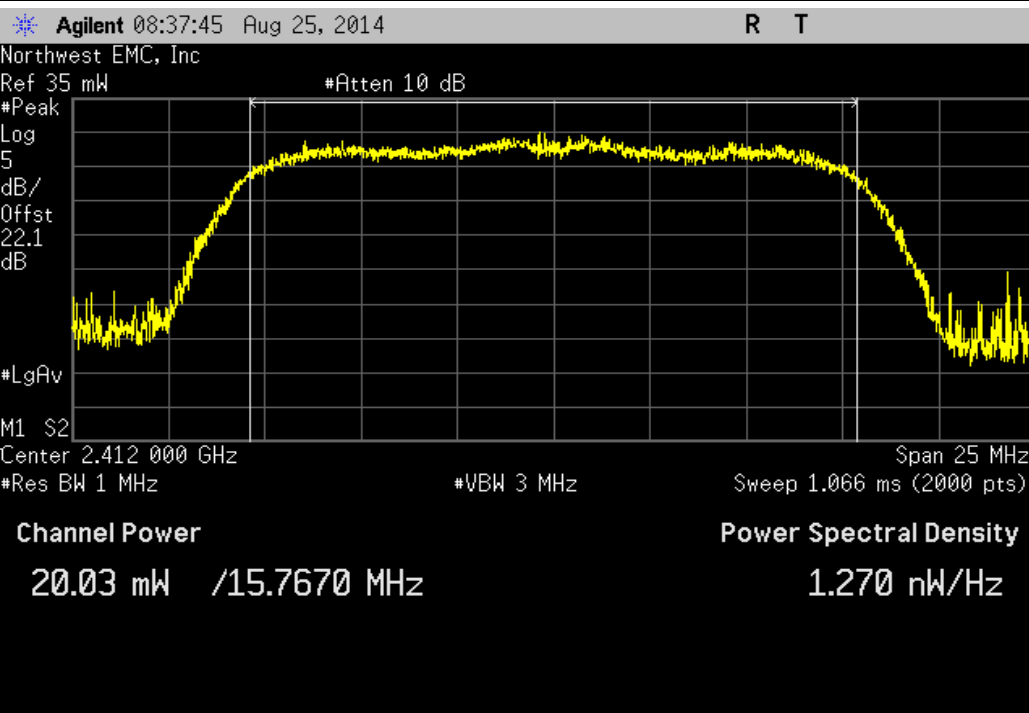
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit (<)	Result
19.618 mW	1 W	Pass



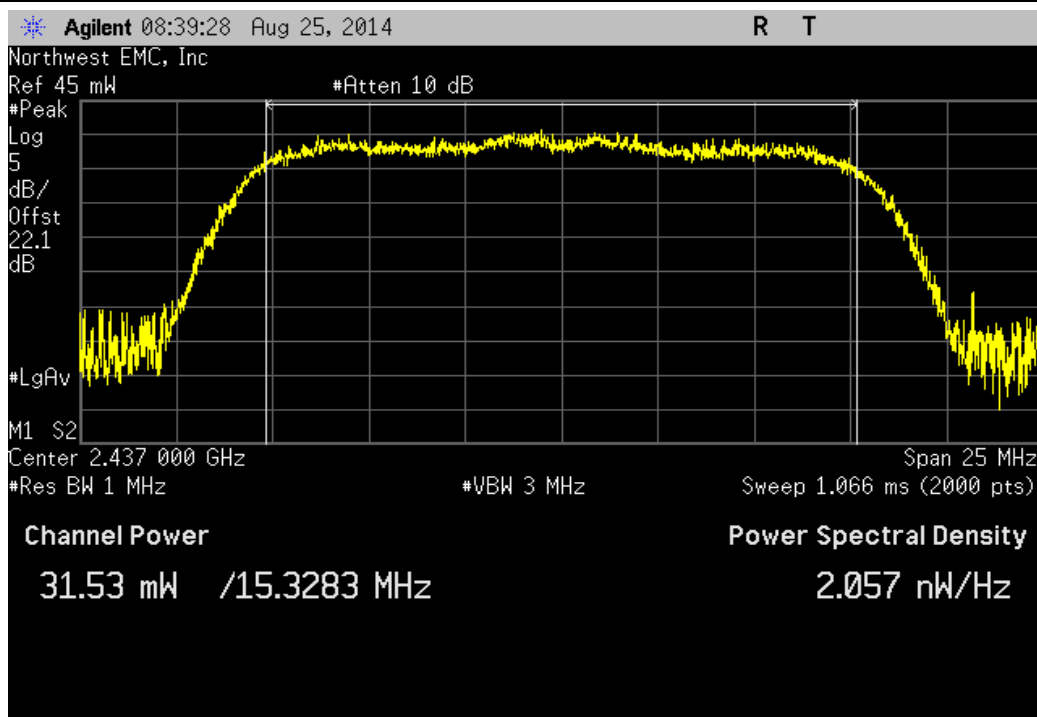
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
20.031 mW	1 W	Pass



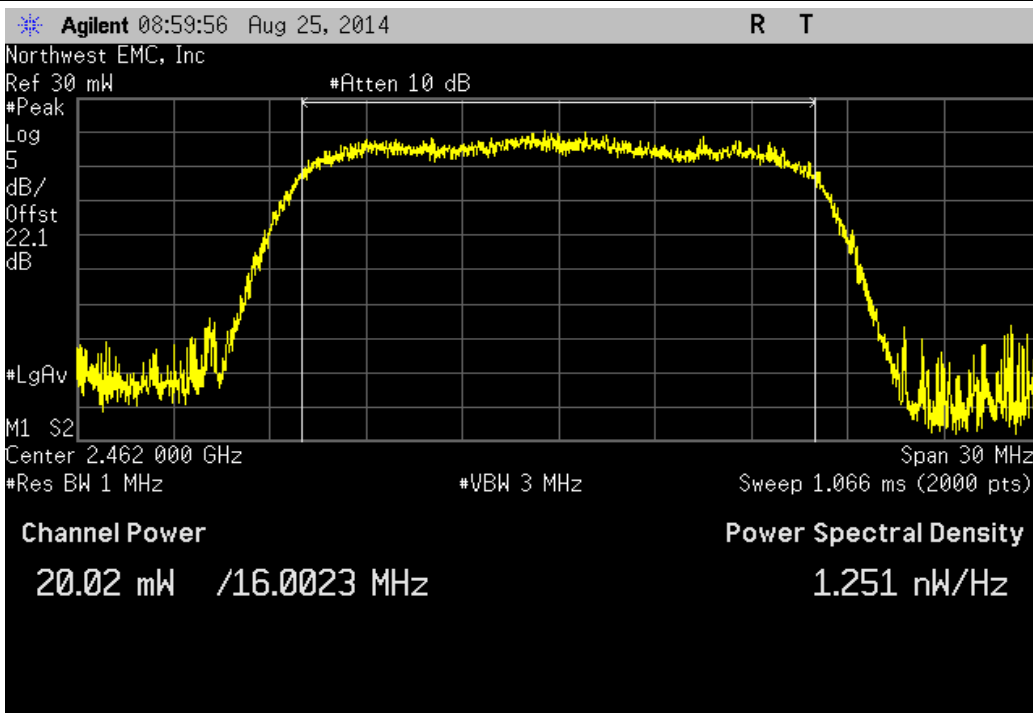
Antenna 0, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
31.534 mW	1 W	Pass



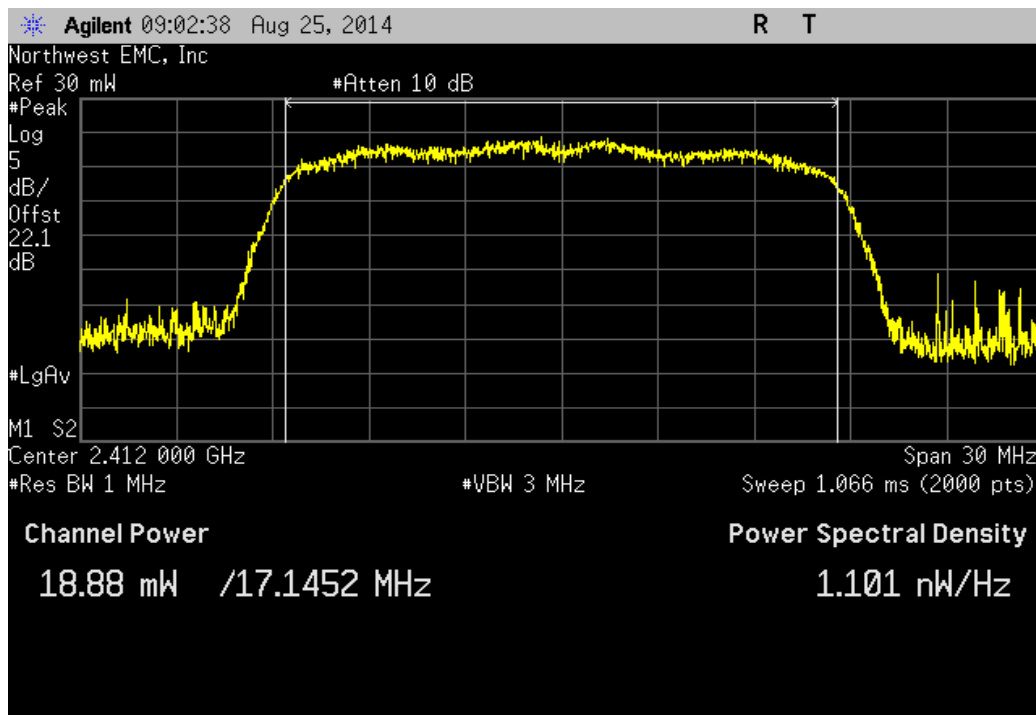
Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

	Value	Limit (<)	Result
	20.02 mW	1 W	Pass



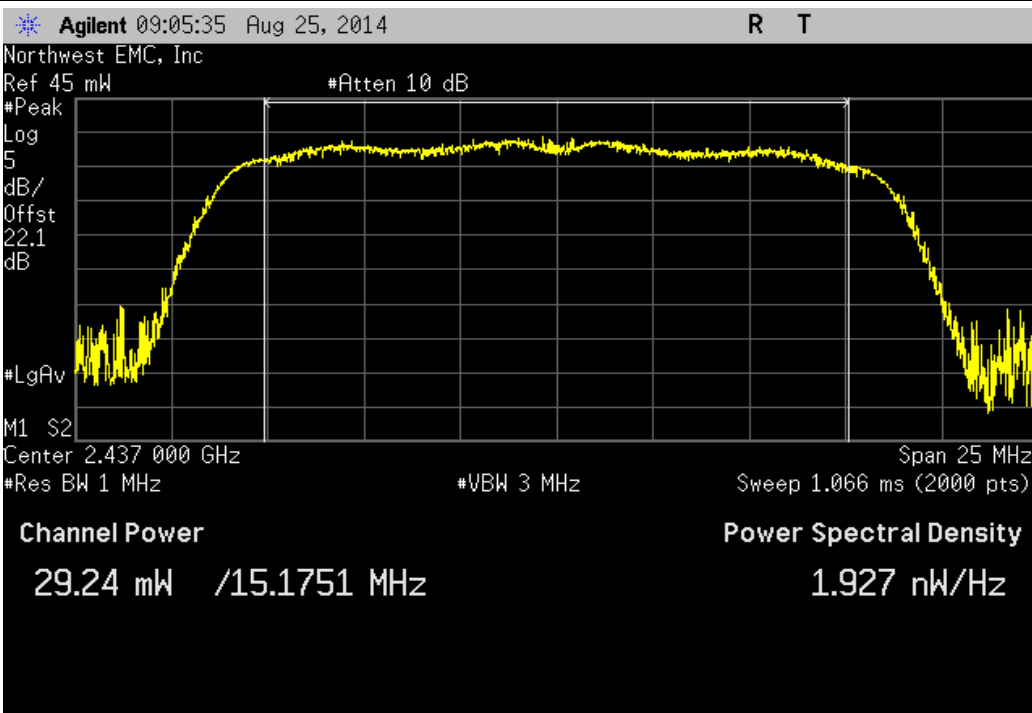
Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz

	Value	Limit (<)	Result
	18.885 mW	1 W	Pass



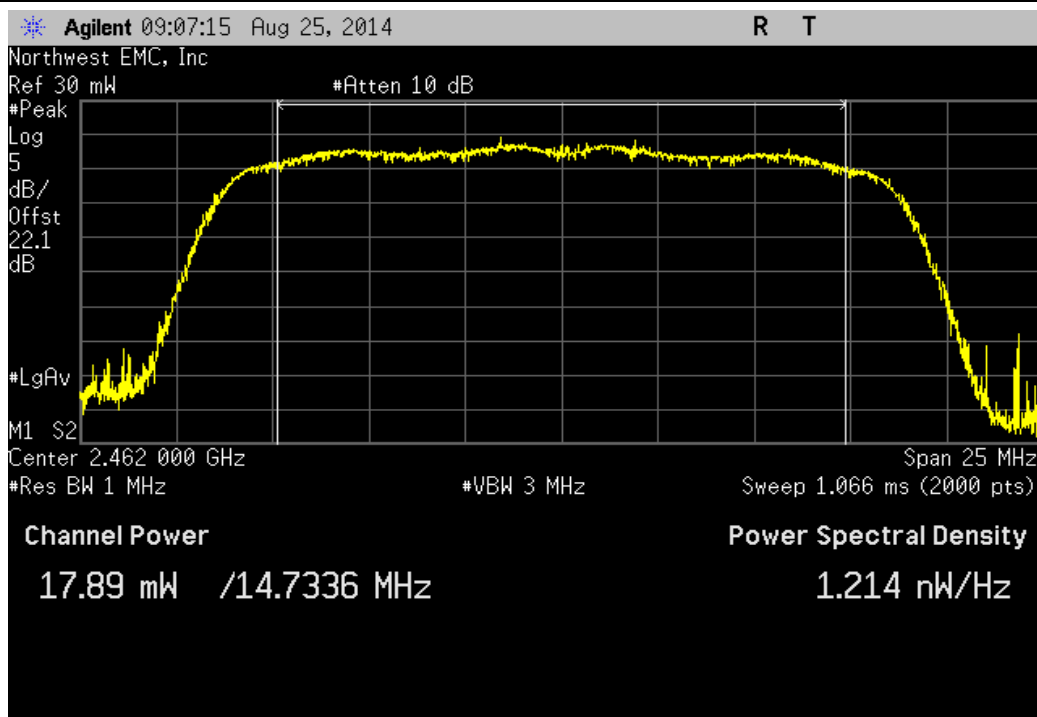
Antenna 0, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

	Value	Limit (<)	Result
	29.244 mW	1 W	Pass



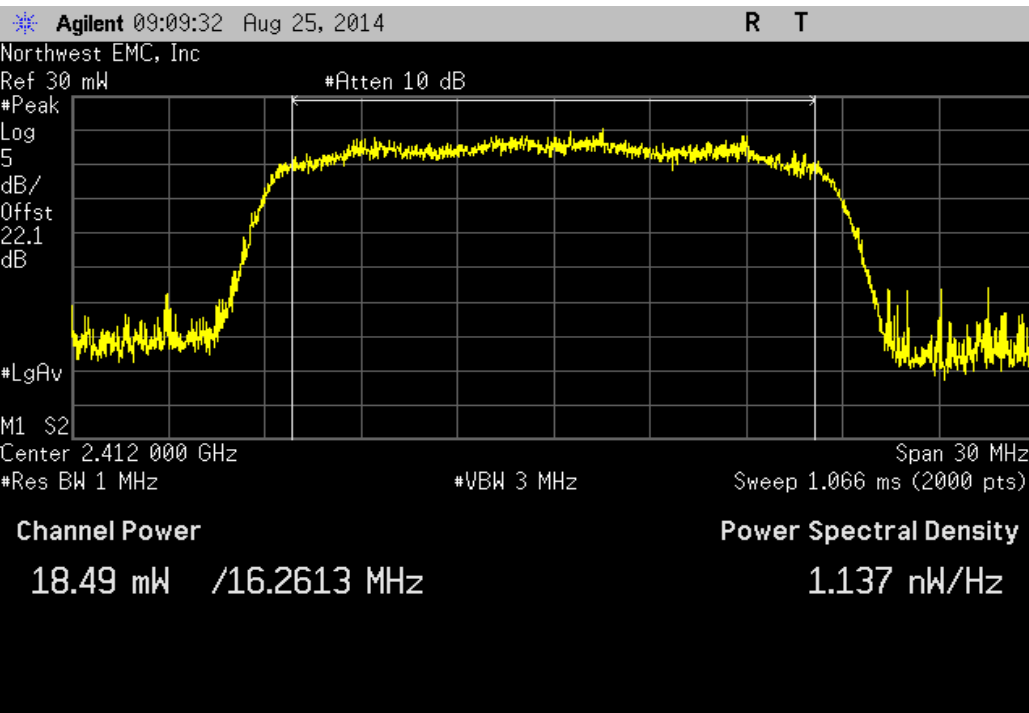
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz

	Value	Limit (<)	Result
	17.887 mW	1 W	Pass



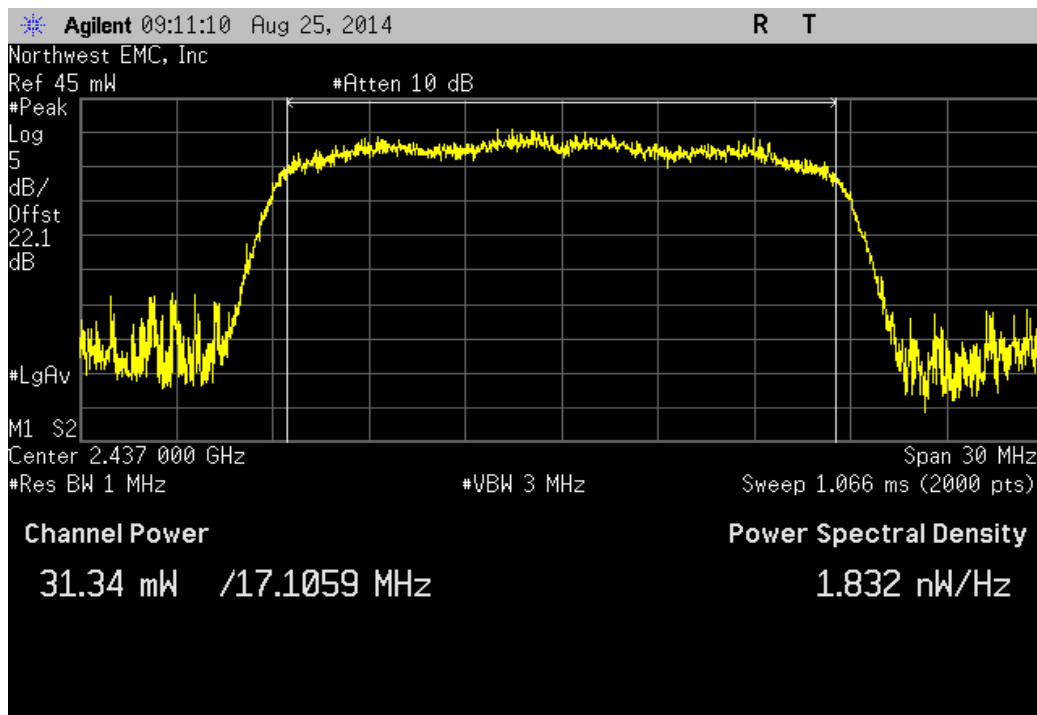
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
18.492 mW	1 W	Pass



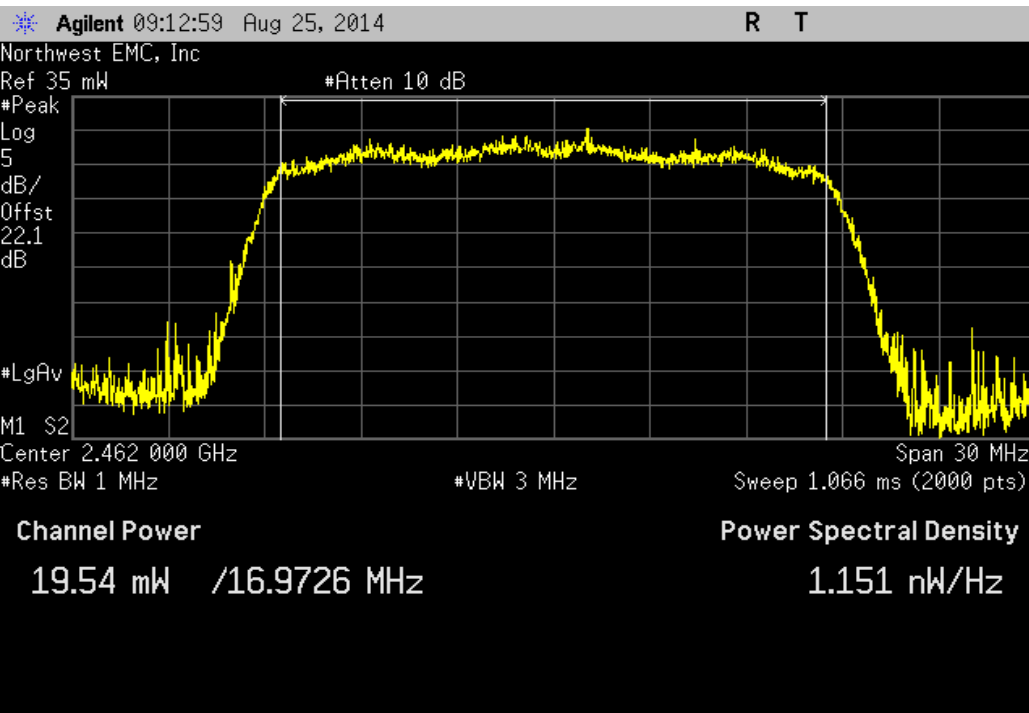
Antenna 0, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
31.34 mW	1 W	Pass



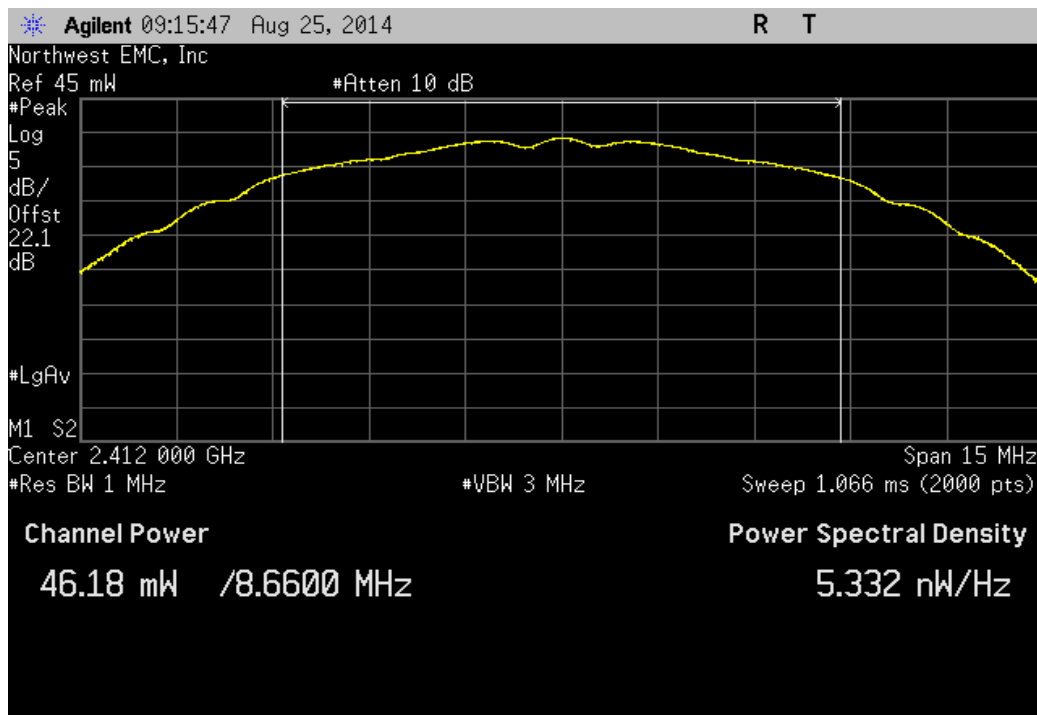
Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit (<)	Result
19.542 mW	1 W	Pass



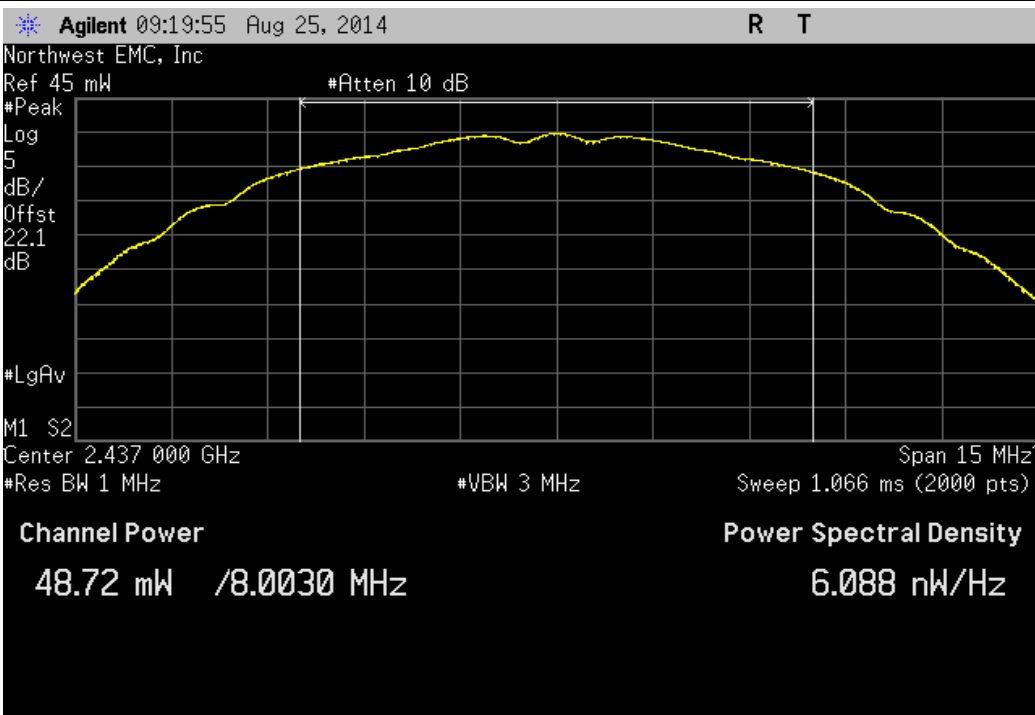
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
46.177 mW	1 W	Pass



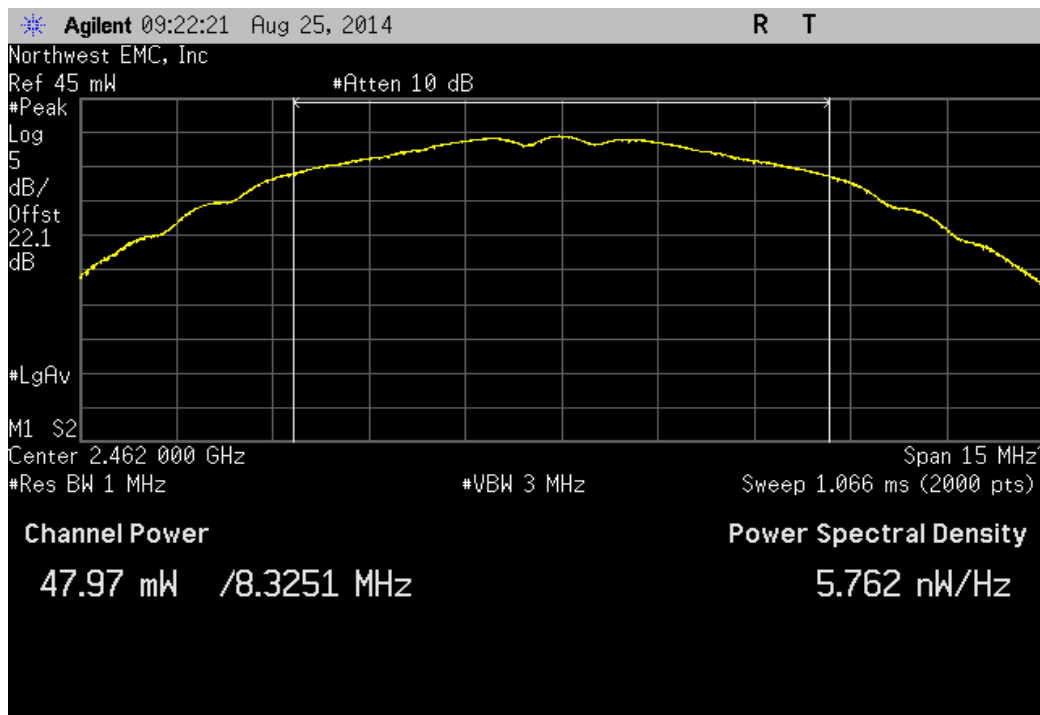
Antenna 1, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
48.723 mW	1 W	Pass



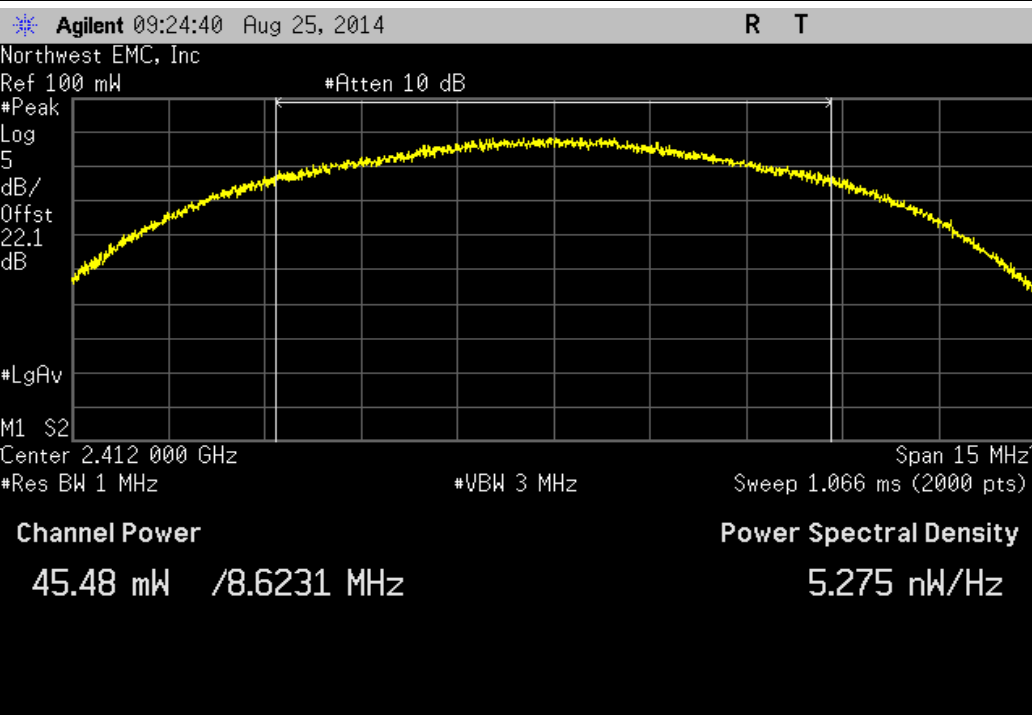
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit (<)	Result
47.973 mW	1 W	Pass



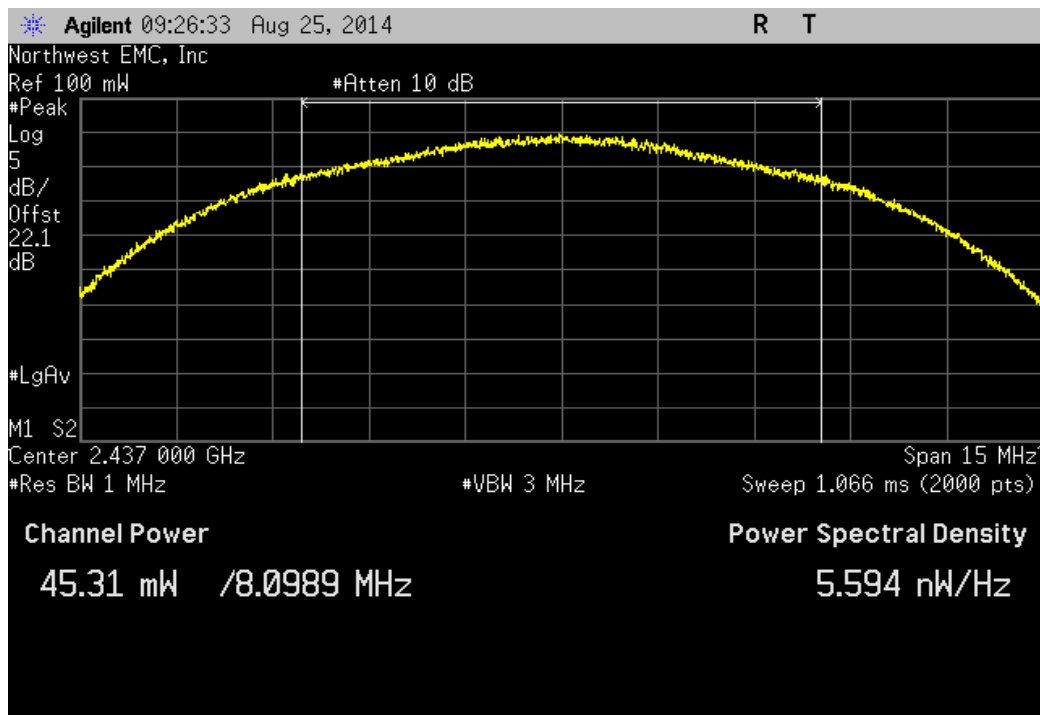
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
45.483 mW	1 W	Pass



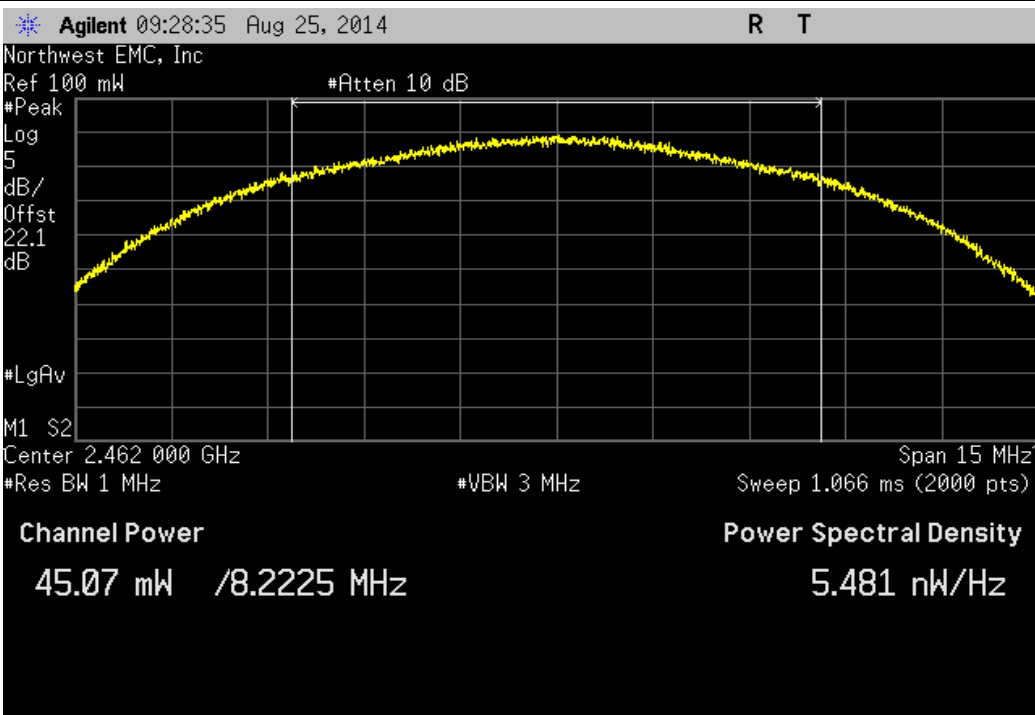
Antenna 1, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
45.305 mW	1 W	Pass



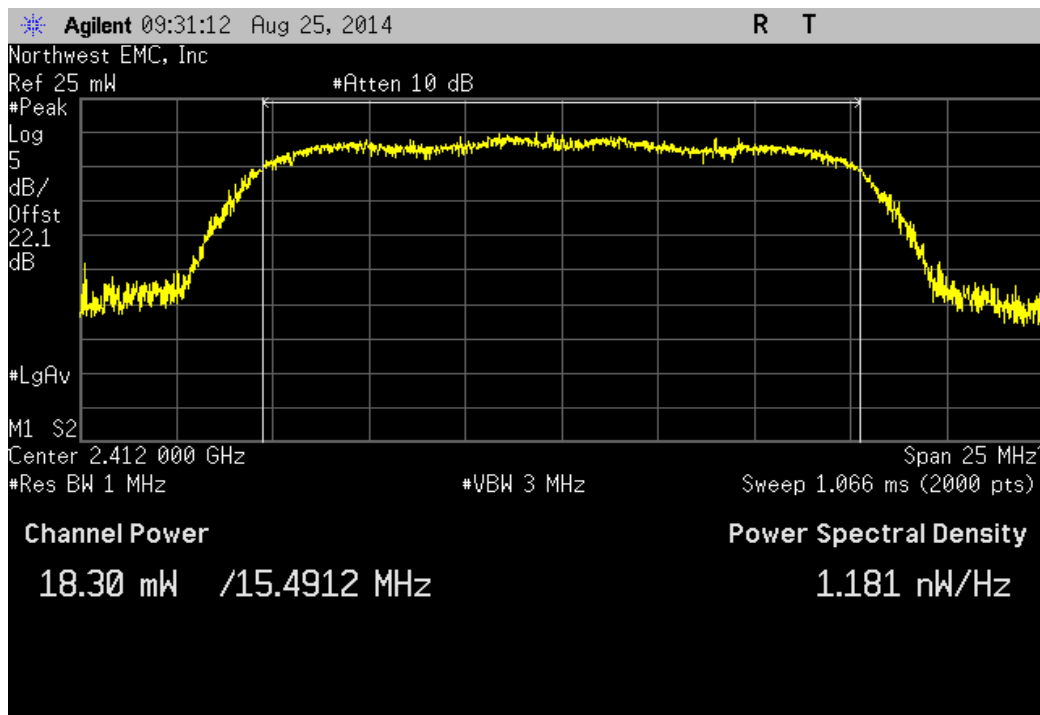
Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

	Value	Limit (<)	Result
	45.069 mW	1 W	Pass



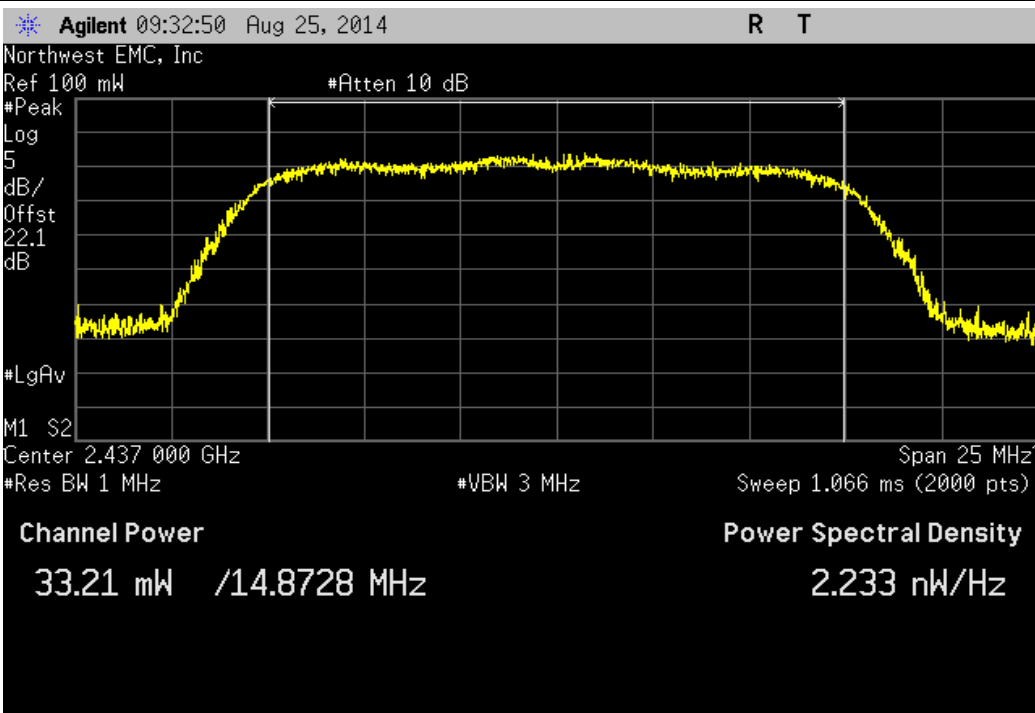
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (<)	Result
	18.299 mW	1 W	Pass



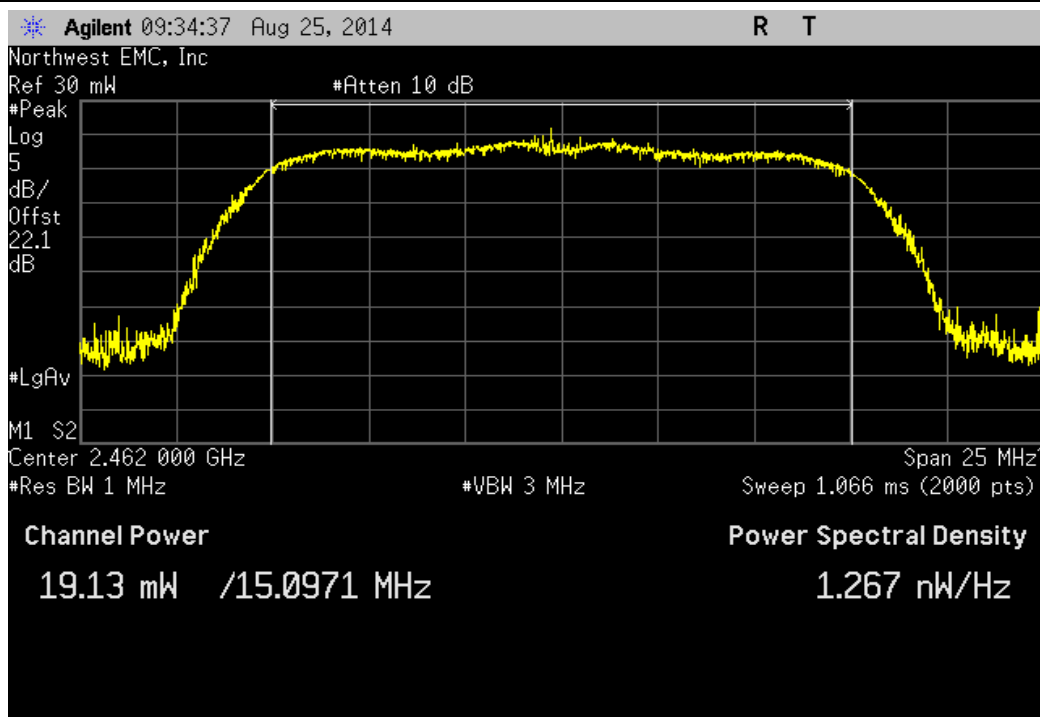
Antenna 1, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
33.212 mW	1 W	Pass



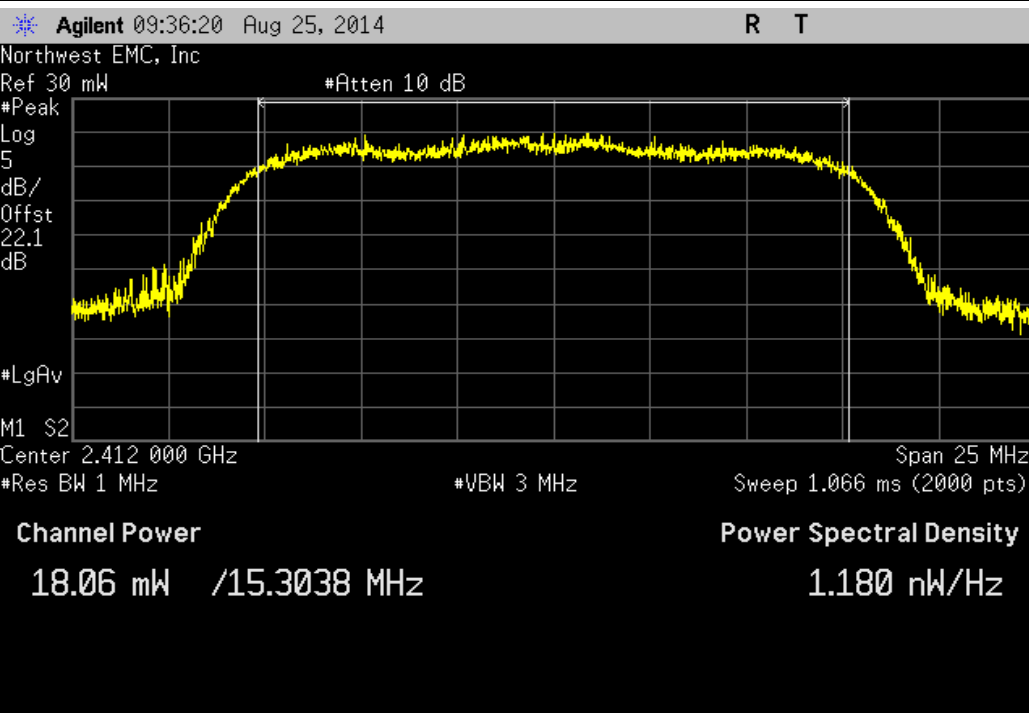
Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit (<)	Result
19.125 mW	1 W	Pass



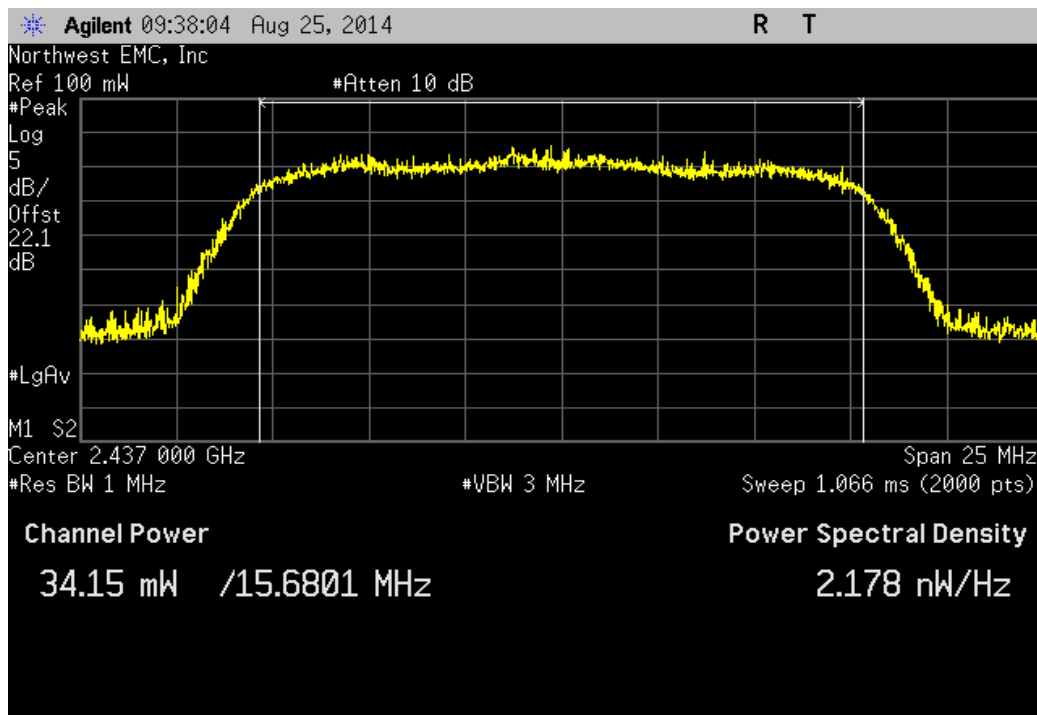
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
18.064 mW	1 W	Pass



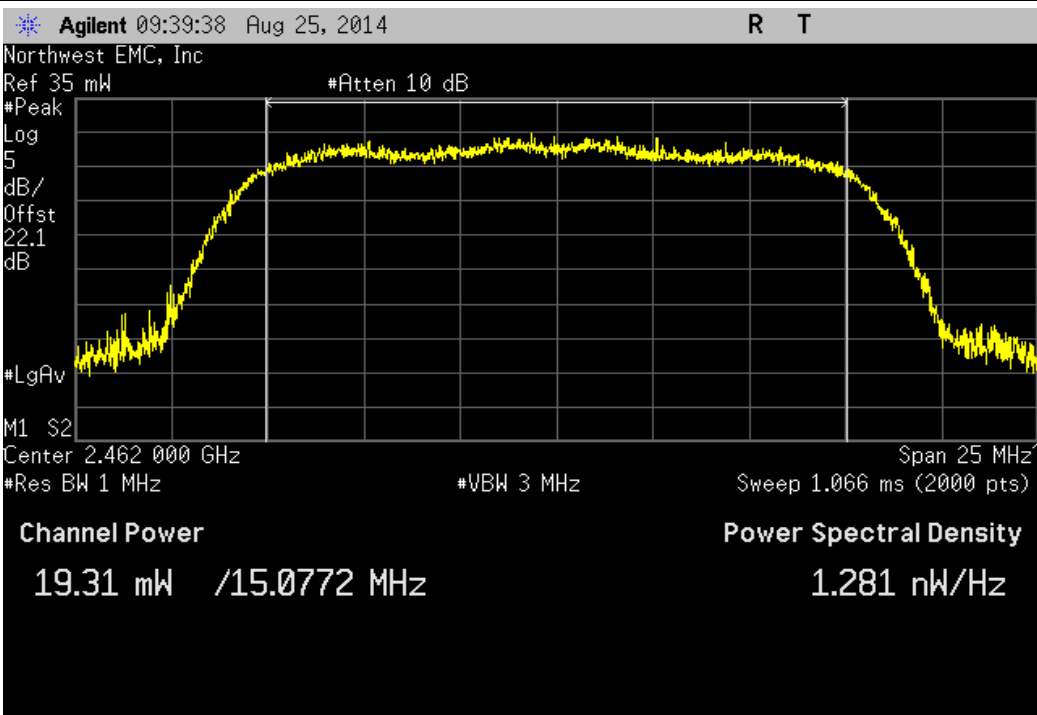
Antenna 1, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
34.15 mW	1 W	Pass



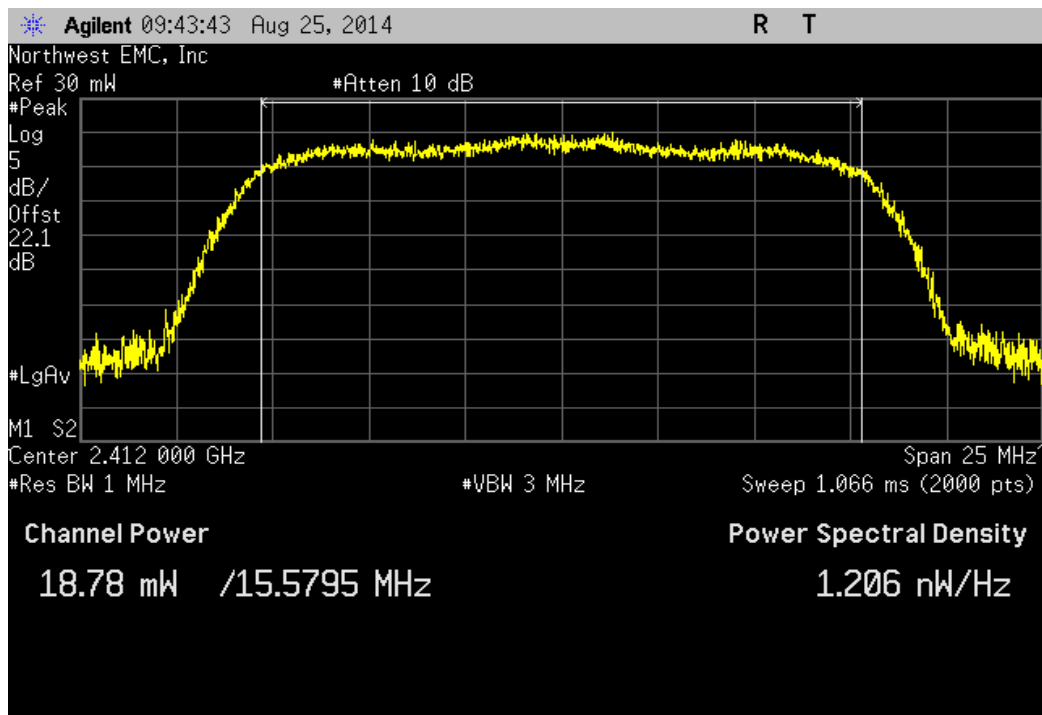
Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

	Value	Limit (<)	Result
	19.312 mW	1 W	Pass



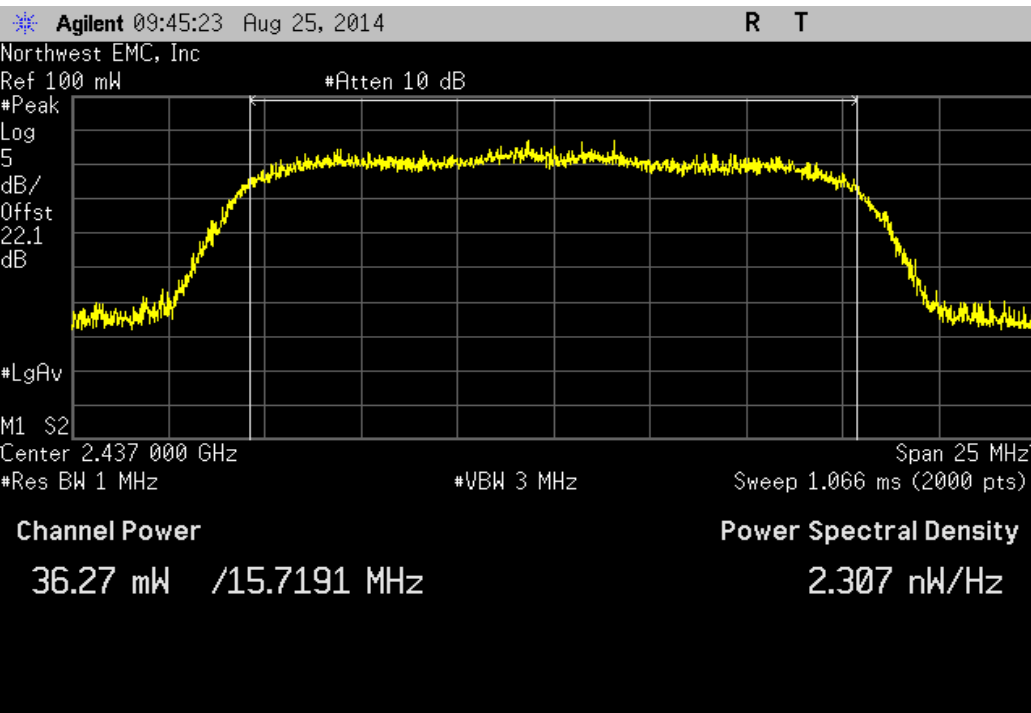
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (<)	Result
	18.784 mW	1 W	Pass



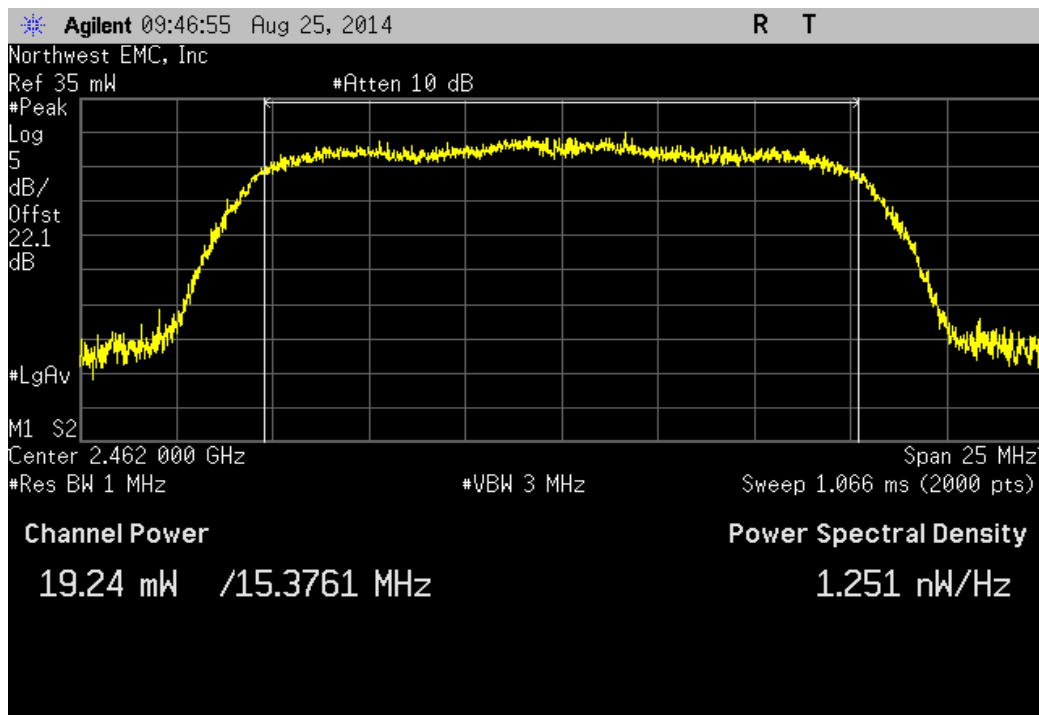
Antenna 1, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
36.27 mW	1 W	Pass



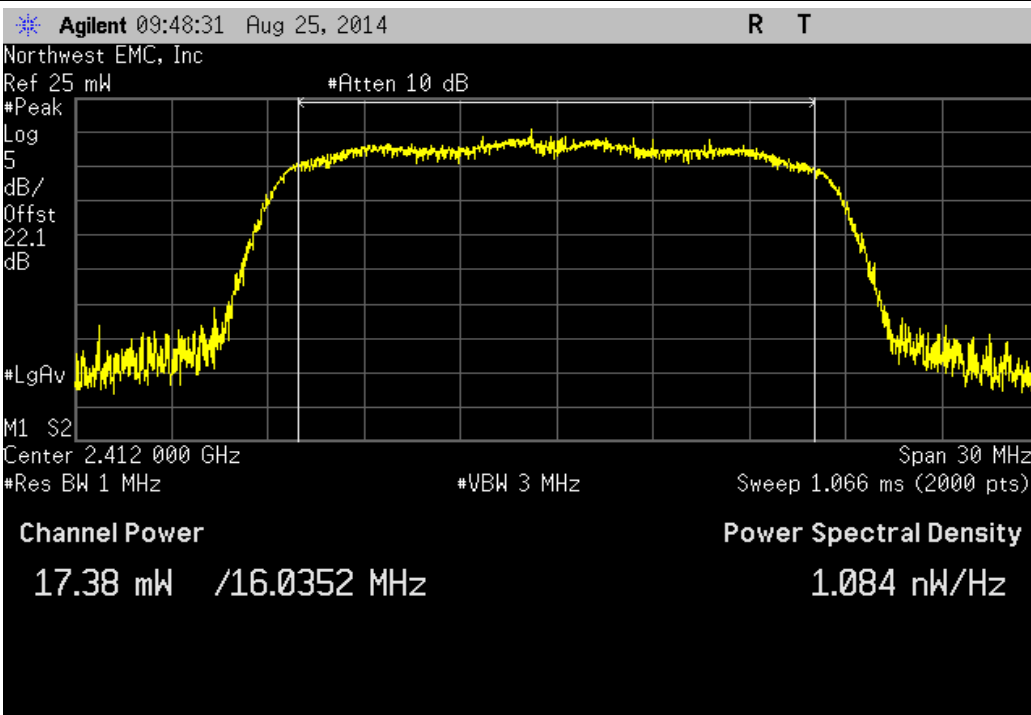
Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit (<)	Result
19.238 mW	1 W	Pass



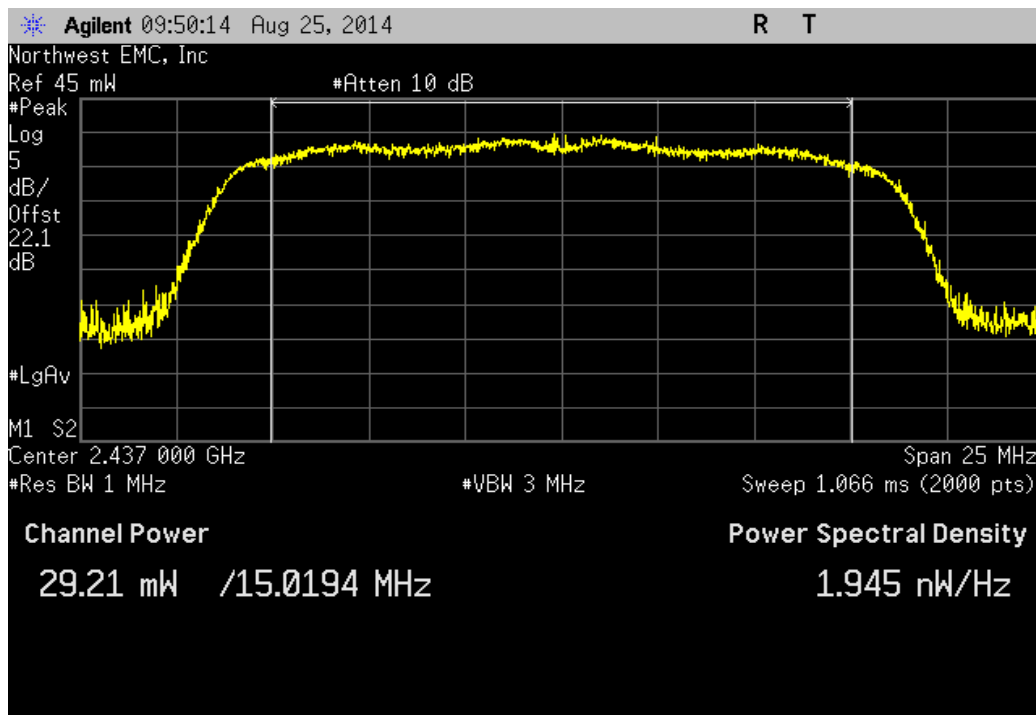
Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
17.376 mW	1 W	Pass



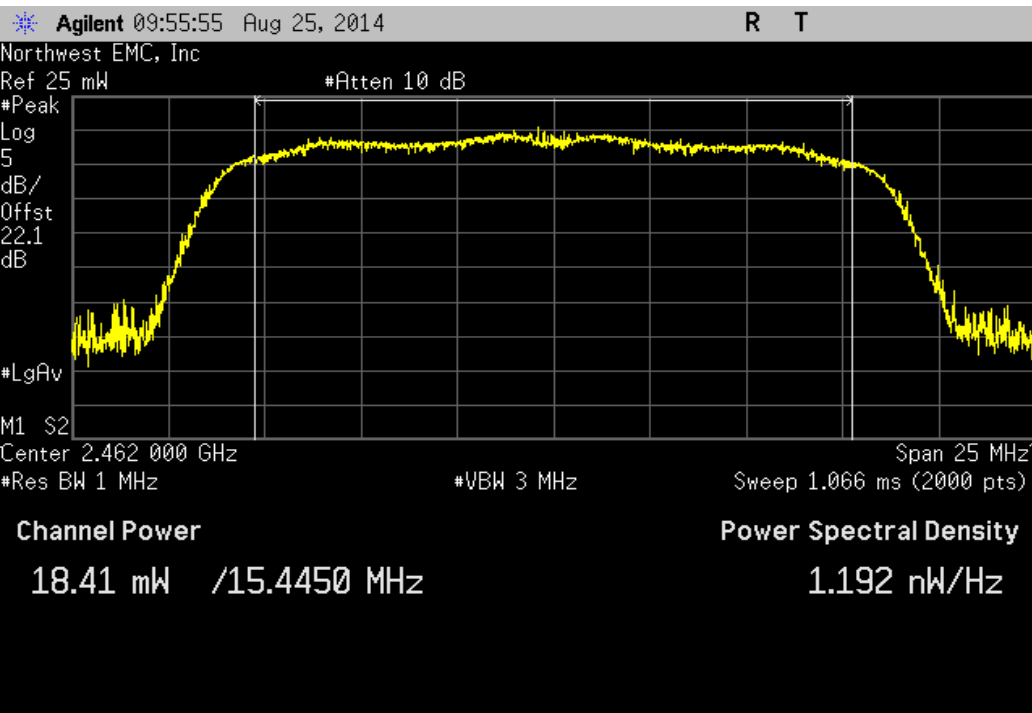
Antenna 1, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
29.208 mW	1 W	Pass



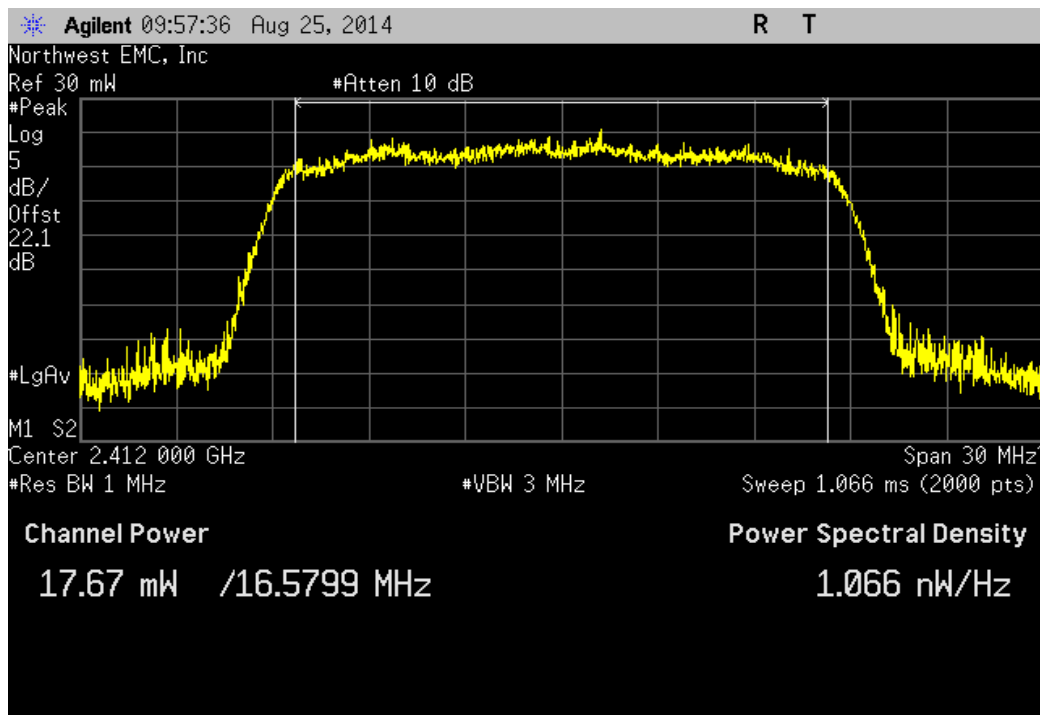
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value	Limit (<)	Result
18.411 mW	1 W	Pass



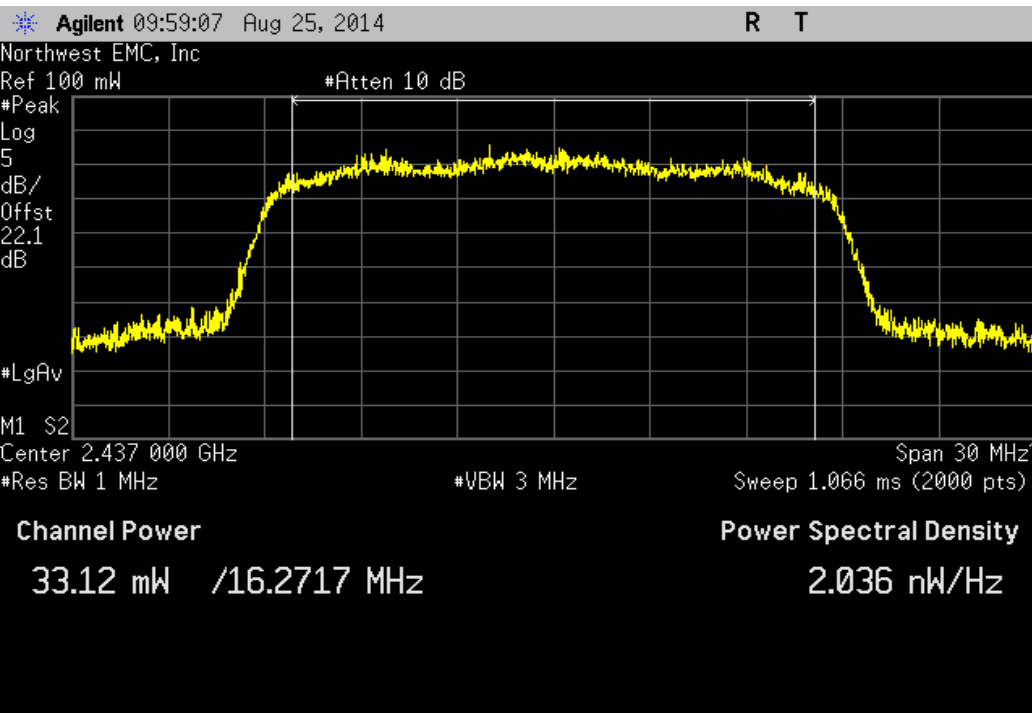
Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit (<)	Result
17.671 mW	1 W	Pass



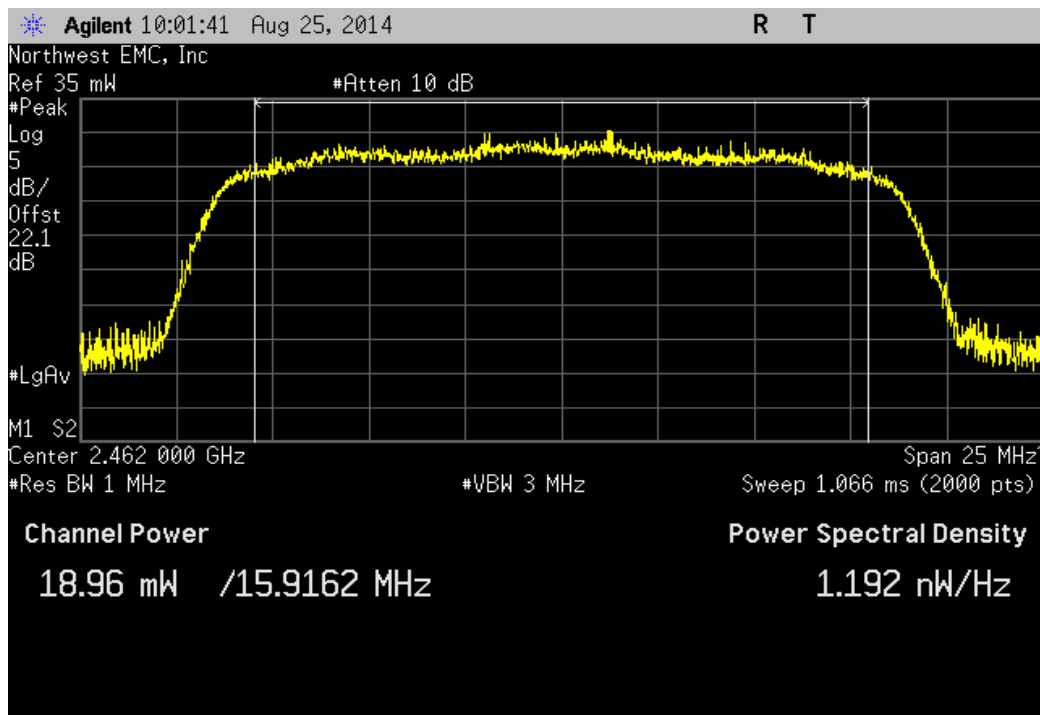
Antenna 1, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

Value	Limit (<)	Result
33.123 mW	1 W	Pass



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit (<)	Result
18.965 mW	1 W	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 (mo)
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

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.

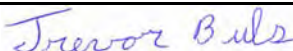
The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating was used during some of the other tests in this report to only measure during the burst duration.



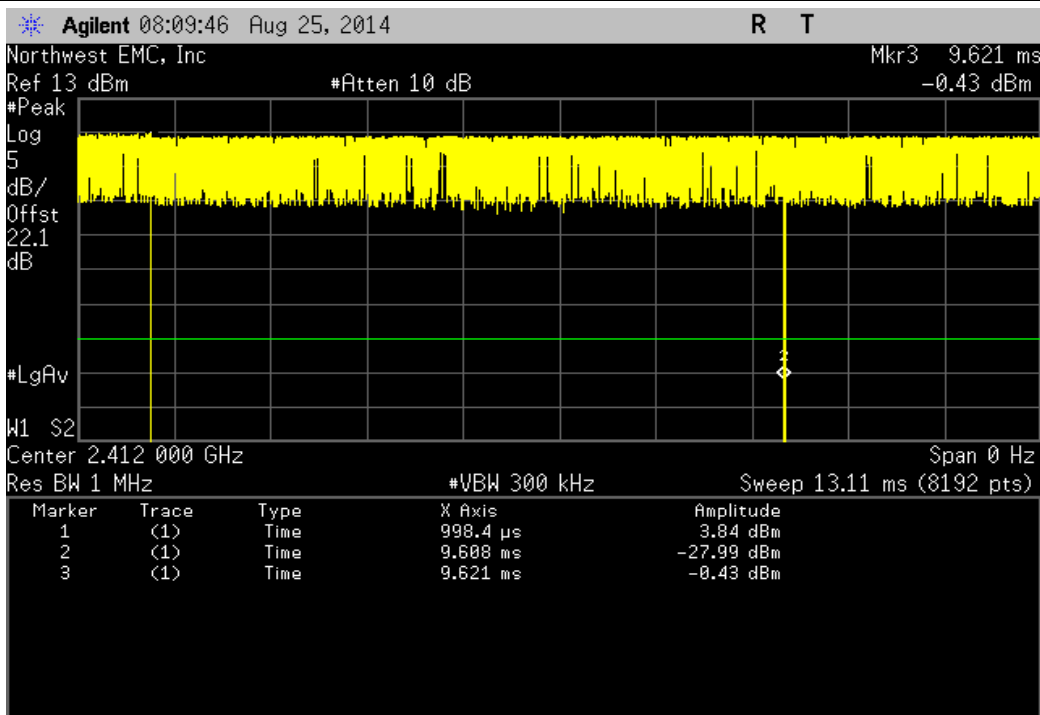
DUTY CYCLE

XMit 2014.02.07
NweTx 2014.07.18.3

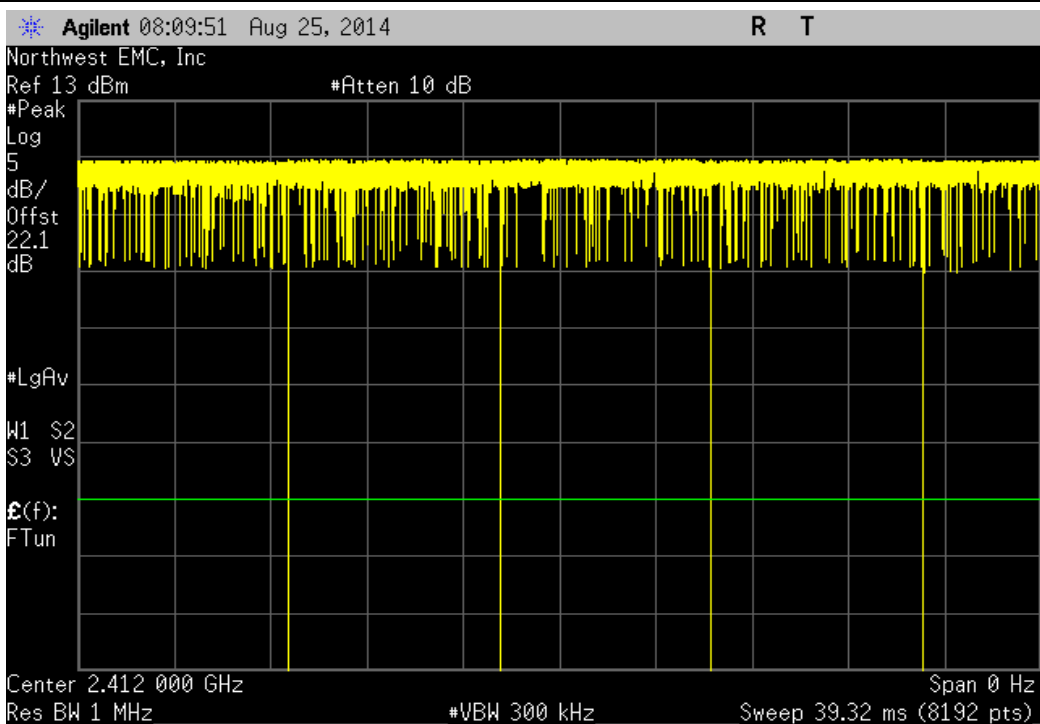
EUT: RTH9580WF01			Work Order: HNYW0108				
Serial Number: P24			Date: 08/25/14				
Customer: Honeywell, Automation and Control Solutions			Temperature: 23.4°C				
Attendees: None			Humidity: 57%				
Project: None			Barometric Pres.: 1017.2				
Tested by: Trevor Buls		Power: 110VAC/60Hz	Job Site: MN08				
TEST SPECIFICATIONS			Test Method				
FCC 15.247:2014			ANSI C63.10:2009				
COMMENTS							
None							
DEVIATIONS FROM TEST STANDARD							
None							
Configuration #	2	Signature 					
		Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
Antenna 0							
802.11(b) 1 Mbps							
	Low Channel 1, 2412 MHz	8.61 mS	8.622 mS	1	99.9	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	8.608 mS	8.624 mS	1	99.8	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	8.608 mS	8.622 mS	1	99.8	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(b) 11 Mbps							
	Low Channel 1, 2412 MHz	957.7 uS	972.4 uS	1	98.5	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	957.7 uS	972.4 uS	1	98.5	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	957.7 uS	972.4 uS	1	98.5	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(g) 6 Mbps							
	Low Channel 1, 2412 MHz	1.42 mS	1.448 mS	1	98	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	1.421 mS	1.449 mS	1	98.1	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	1.421 mS	1.449 mS	1	98.1	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(g) 36 Mbps							
	Low Channel 1, 2412 MHz	248.5 uS	276.4 uS	1	89.9	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	248.6 uS	276.2 uS	1	90	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	6	N/A	N/A	N/A
	High Channel 11, 2462 MHz	248.8 uS	276.4 uS	1	90	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(g) 54 Mbps							
	Low Channel 1, 2412 MHz	172.8 uS	200.4 uS	1	86.2	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	6	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	172.6 uS	200.2 uS	1	86.2	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	6	N/A	N/A	N/A
	High Channel 11, 2462 MHz	172.6 uS	200.2 uS	1	86.2	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	6	N/A	N/A	N/A
802.11(n) MCS0							
	Low Channel 1, 2412 MHz	1.329 mS	1.356 mS	1	98	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	1.329 mS	1.357 mS	1	98	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	1.329 mS	1.356 mS	1	98	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS7							
	Low Channel 1, 2412 MHz	160.7 uS	188.5 uS	1	85.3	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	160.7 uS	188.5 uS	1	85.3	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	160.7 uS	188.5 uS	1	85.3	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	6	N/A	N/A	N/A
Antenna 1							
802.11(b) 1 Mbps							
	Low Channel 1, 2412 MHz	8.608 mS	8.622 mS	1	99.8	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	8.61 mS	8.624 mS	1	99.8	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	8.608 mS	8.622 mS	1	99.8	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(b) 11 Mbps							
	Low Channel 1, 2412 MHz	957.7 uS	972.4 uS	1	98.5	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	957.7 uS	972.4 uS	1	98.5	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	957.7 uS	972.4 uS	1	98.5	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(g) 6 Mbps							
	Low Channel 1, 2412 MHz	1.421 mS	1.449 mS	1	98.1	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	1.421 mS	1.449 mS	1	98.1	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	1.421 mS	1.448 mS	1	98.1	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802.11(g) 36 Mbps							
	Low Channel 1, 2412 MHz	248.8 uS	276.4 uS	1	90	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	248.6 uS	276.4 uS	1	89.9	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	248.5 uS	276.4 uS	1	89.9	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A

802.11(g) 54 Mbps							
Low Channel 1, 2412 MHz	172.1 uS	200.2 uS	1	86	N/A	N/A	
Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A	
Mid Channel 6, 2437 MHz	172.6 uS	200.2 uS	1	86.2	N/A	N/A	
Mid Channel 6, 2437 MHz	N/A	N/A	6	N/A	N/A	N/A	
High Channel 11, 2462 MHz	172.8 uS	200.4 uS	1	86.2	N/A	N/A	
High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A	
802.11(n) MCS0							
Low Channel 1, 2412 MHz	1.328 mS	1.356 mS	1	98	N/A	N/A	
Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A	
Mid Channel 6, 2437 MHz	1.329 mS	1.356 mS	1	98	N/A	N/A	
Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A	
High Channel 11, 2462 MHz	1.329 mS	1.357 mS	1	98	N/A	N/A	
High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A	
802.11(n) MCS7							
Low Channel 1, 2412 MHz	160.7 uS	188.5 uS	1	85.3	N/A	N/A	
Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A	
Mid Channel 6, 2437 MHz	160.7 uS	188.5 uS	1	85.3	N/A	N/A	
Mid Channel 6, 2437 MHz	N/A	N/A	6	N/A	N/A	N/A	
High Channel 11, 2462 MHz	160.9 uS	188.5 uS	1	85.4	N/A	N/A	
High Channel 11, 2462 MHz	N/A	N/A	6	N/A	N/A	N/A	

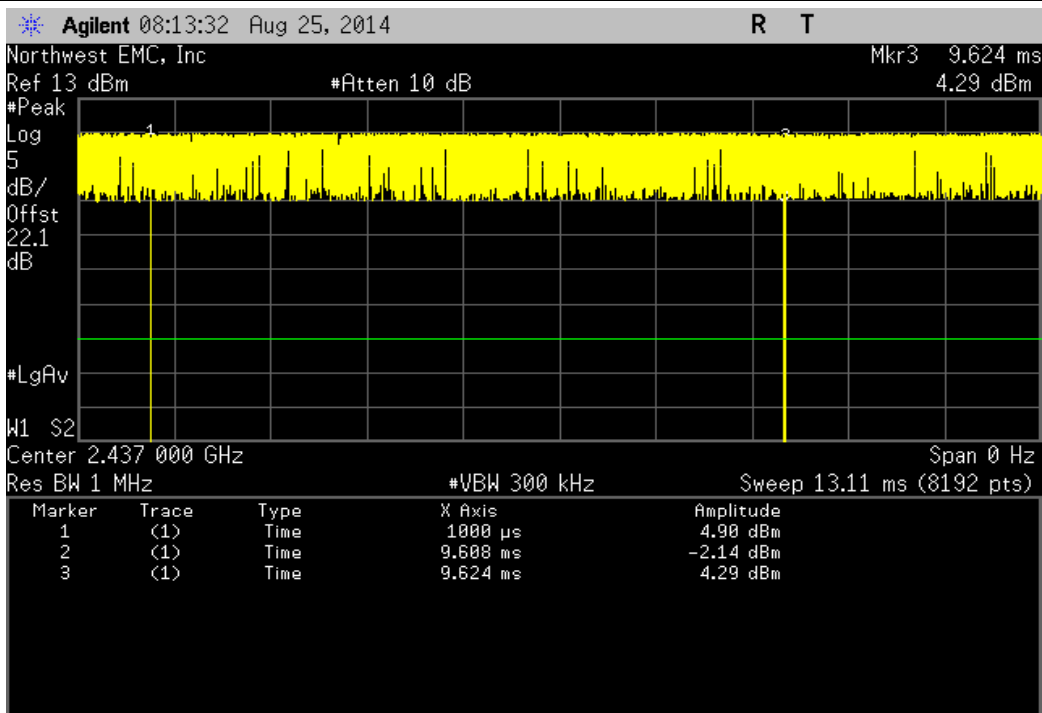
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	8.61 mS	8.622 mS	1	99.9	N/A	N/A



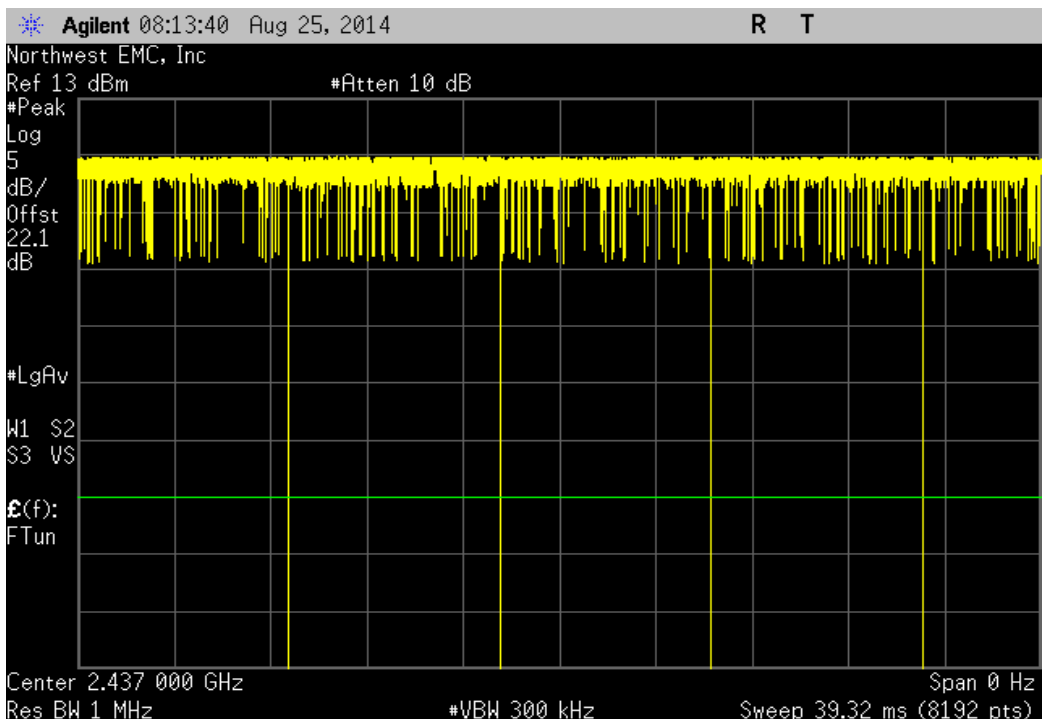
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A



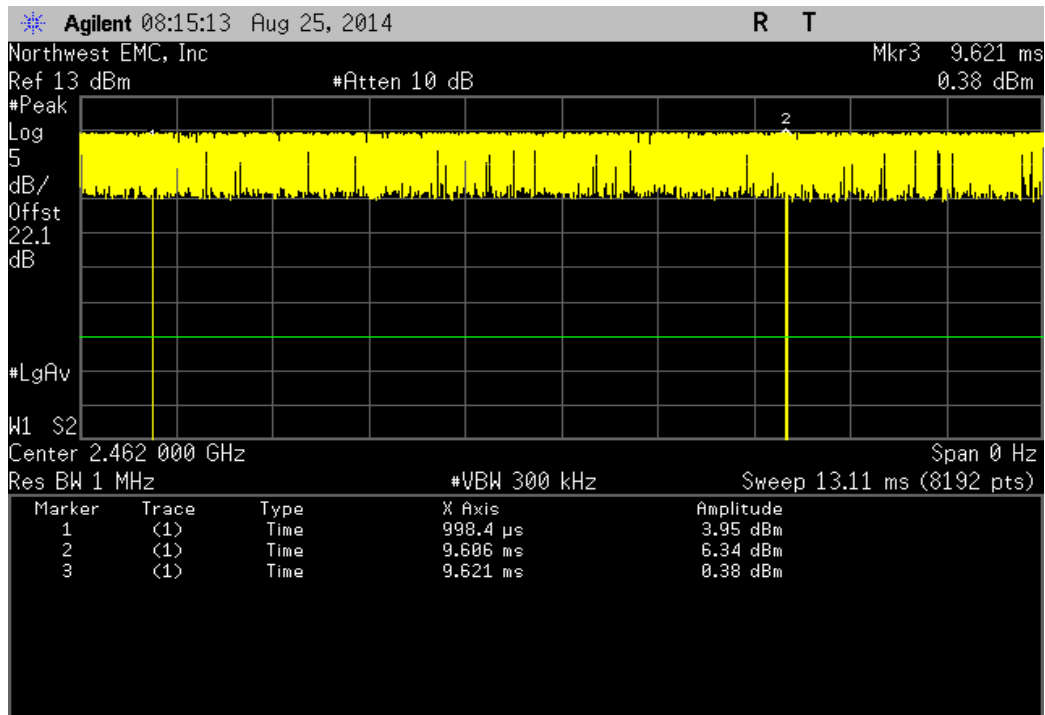
Antenna 0, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	8.608 mS	8.624 mS	1	99.8	N/A	N/A



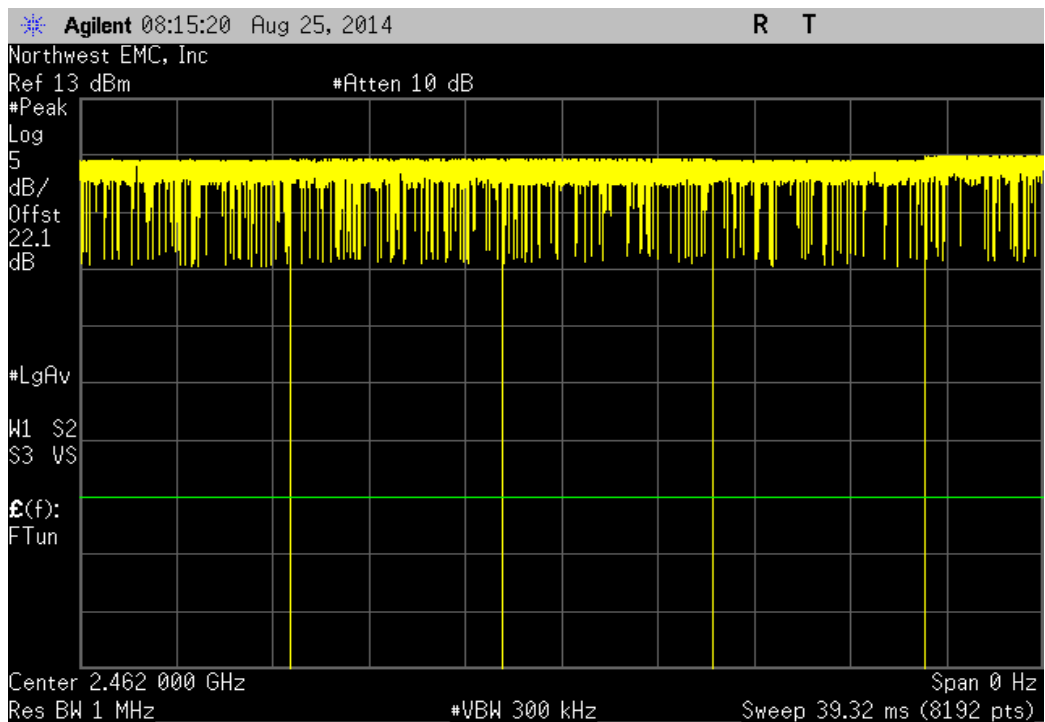
Antenna 0, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A



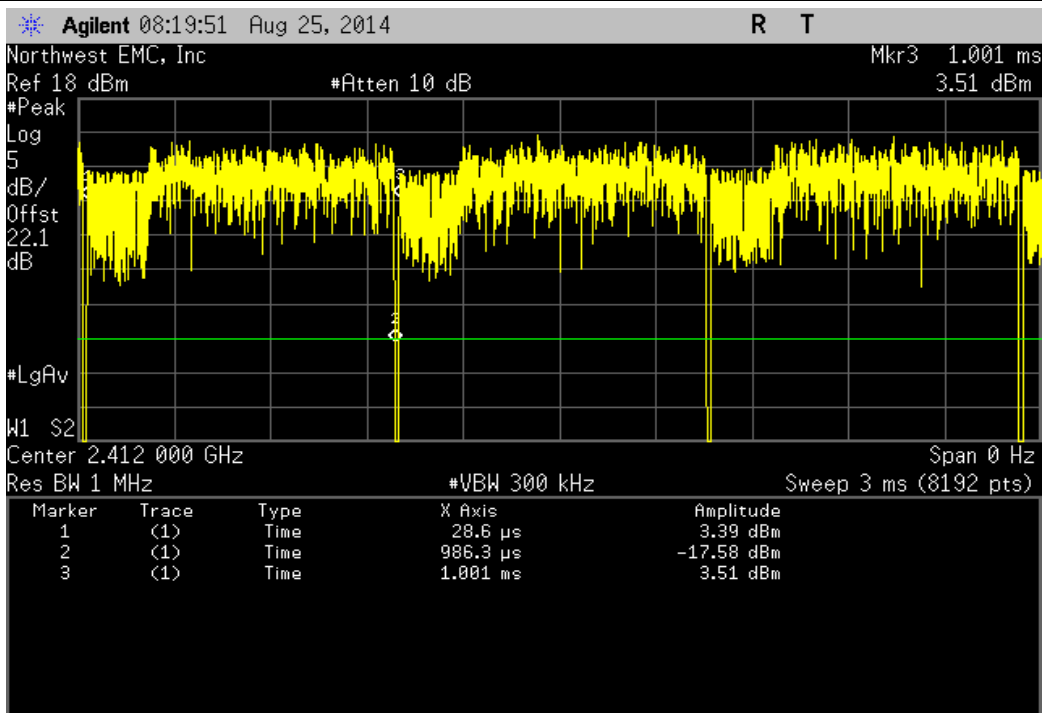
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	8.608 mS	8.622 mS	1	99.8	N/A	N/A



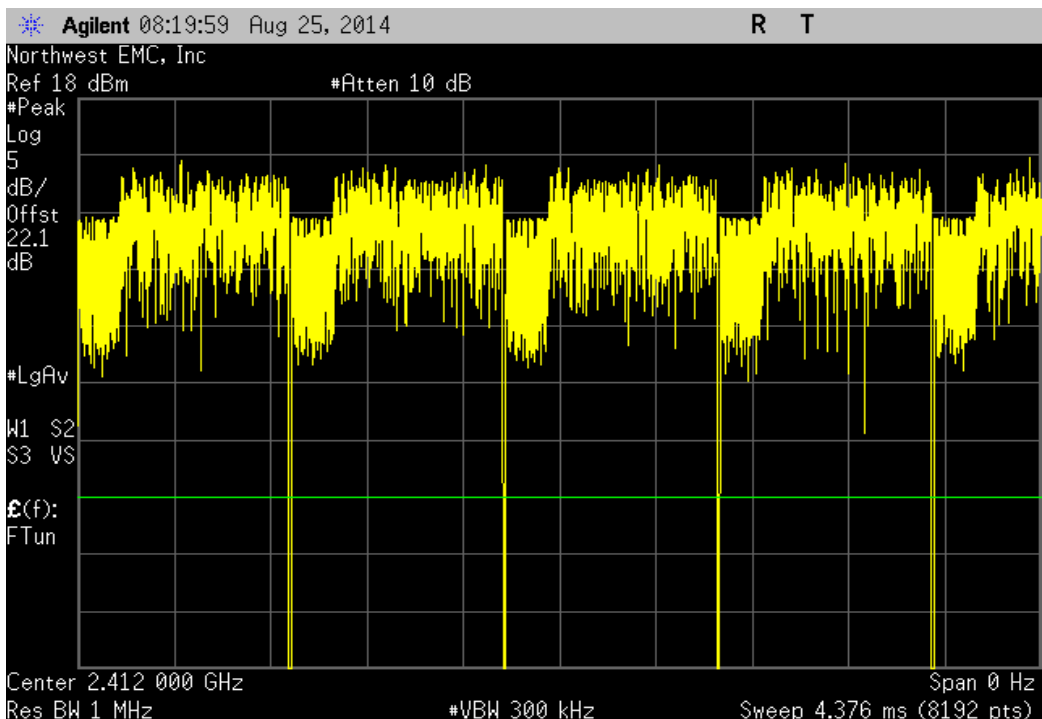
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A



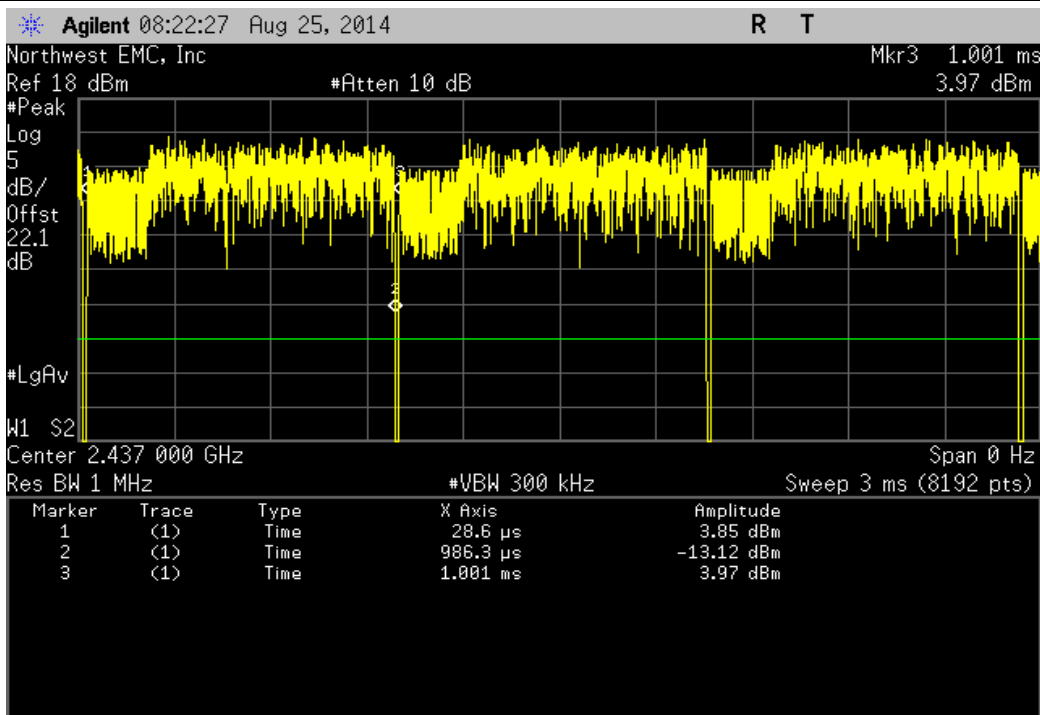
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
957.7 uS	972.4 uS	1	98.5	N/A	N/A	



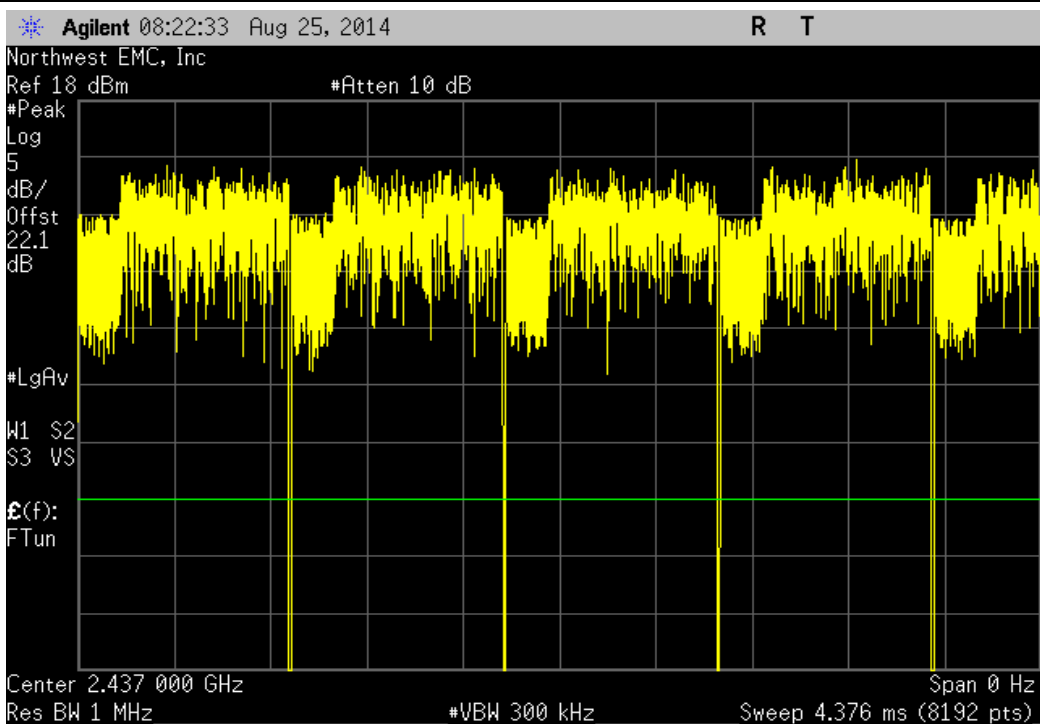
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



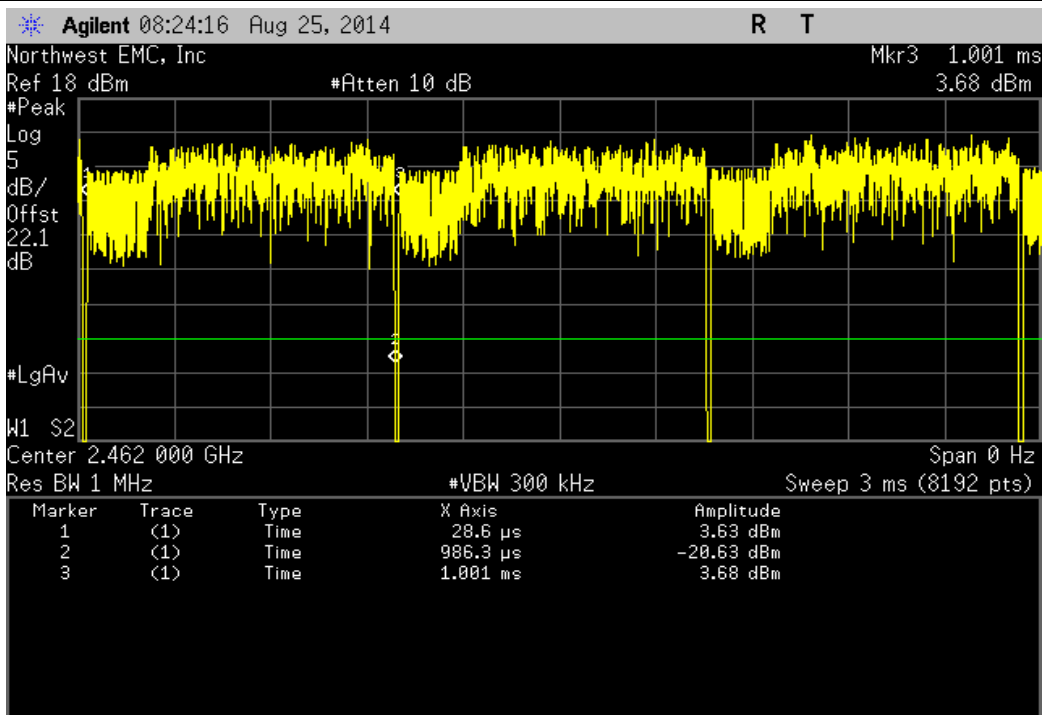
Antenna 0, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
957.7 uS	972.4 uS	1	98.5	N/A	N/A	



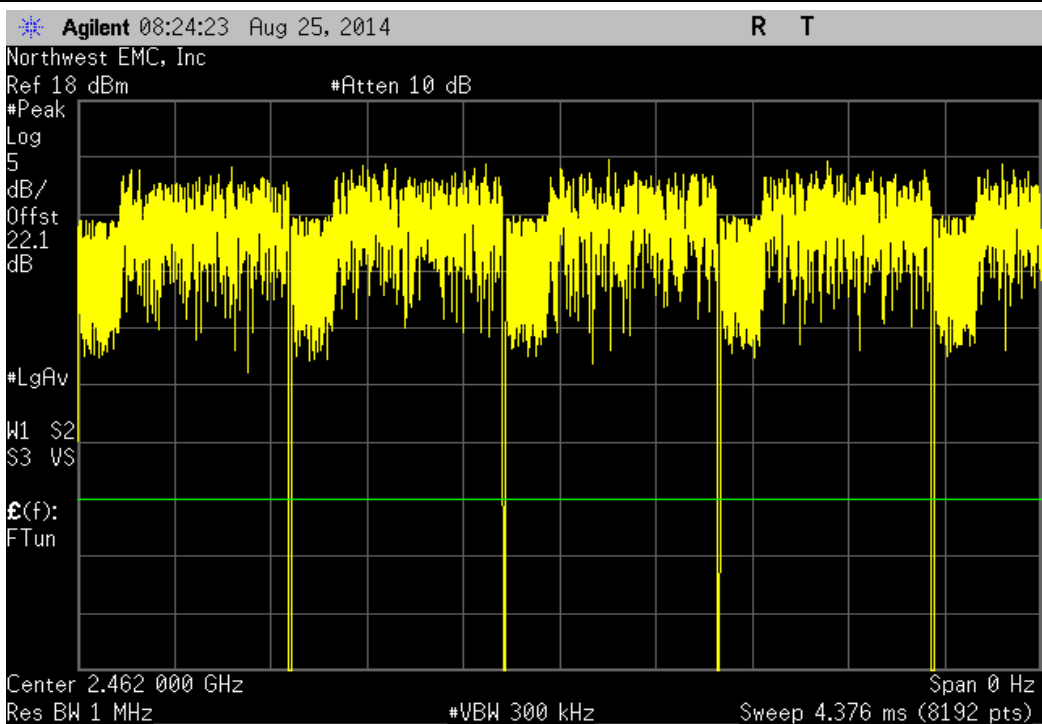
Antenna 0, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



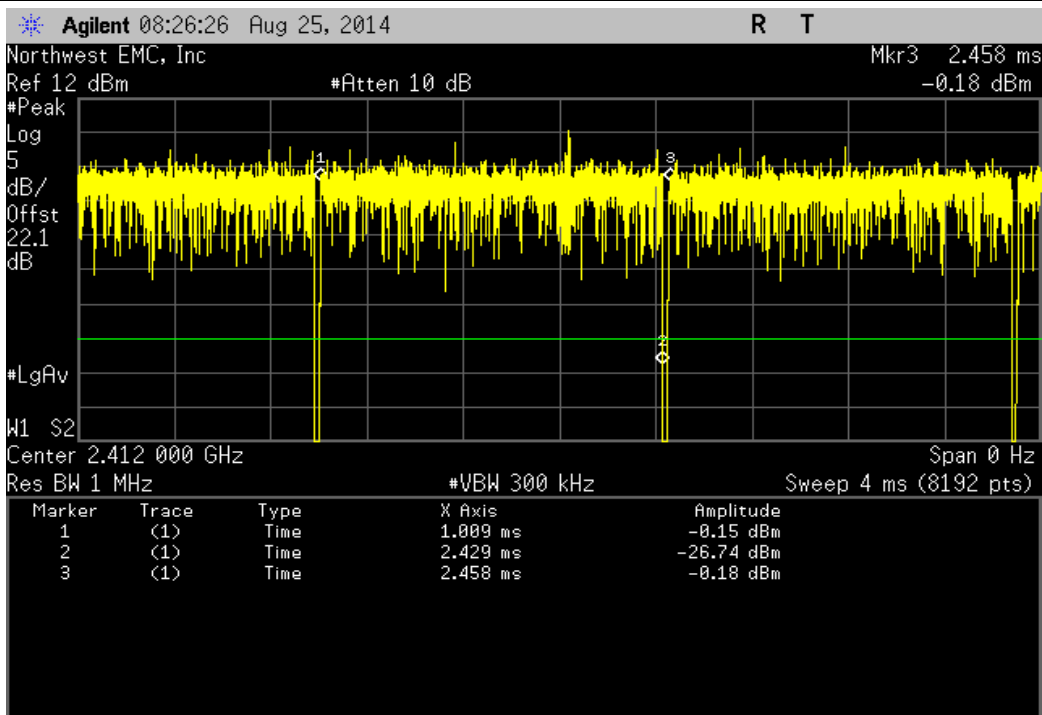
Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
957.7 uS	972.4 uS	1	98.5	N/A	N/A	



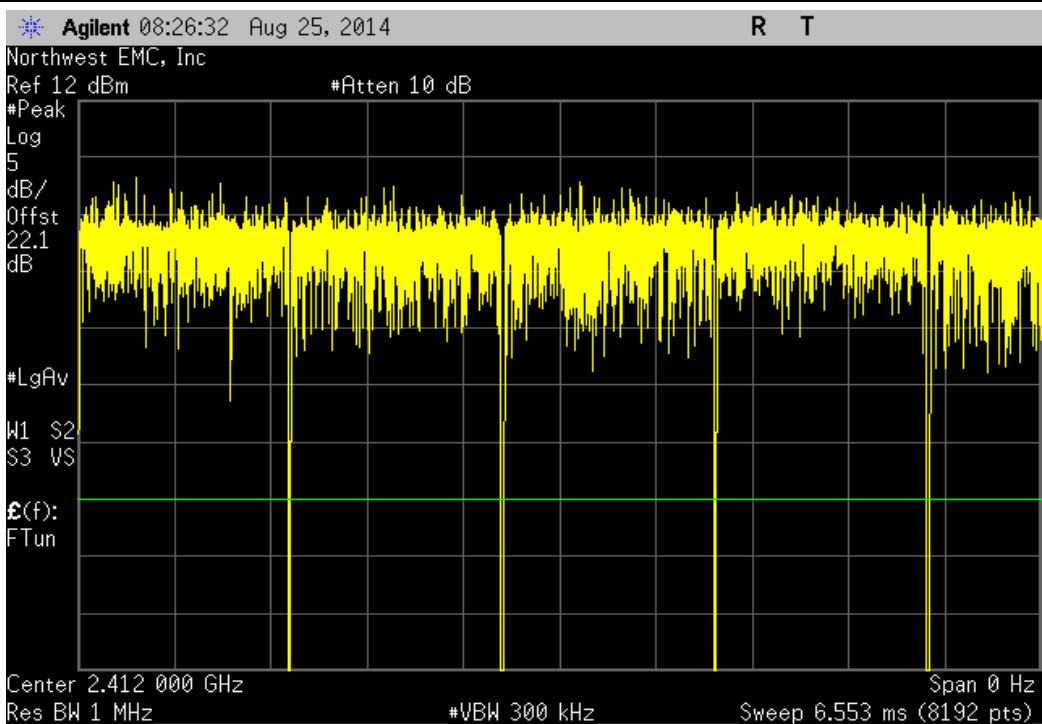
Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



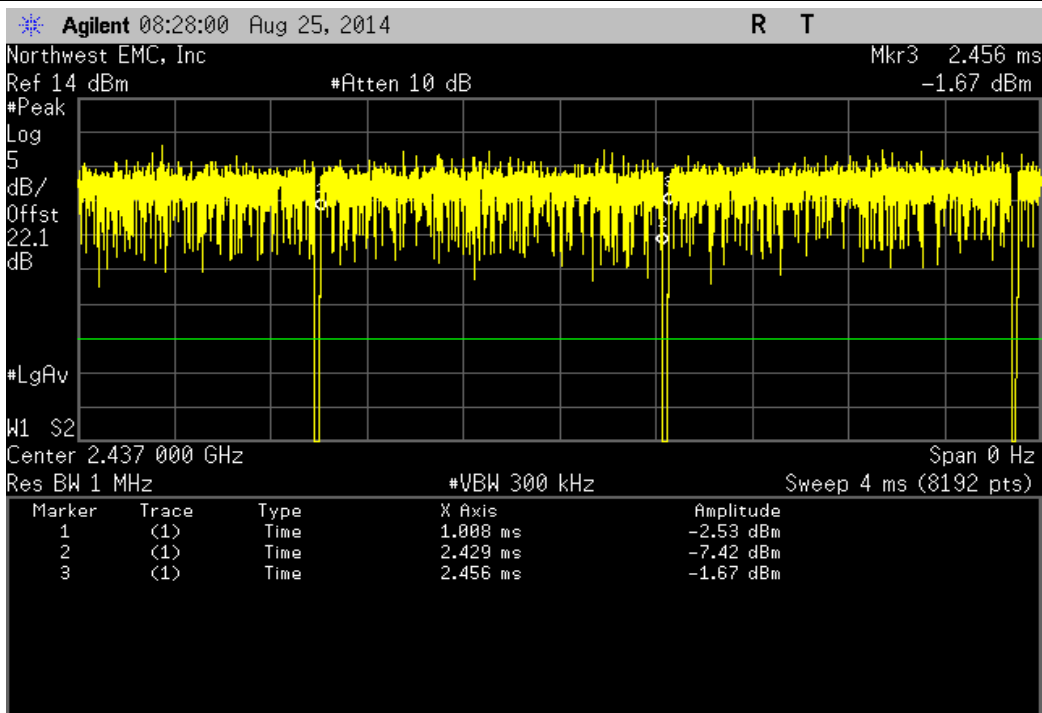
Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.42 mS	1.448 mS	1	98	N/A	N/A	



Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



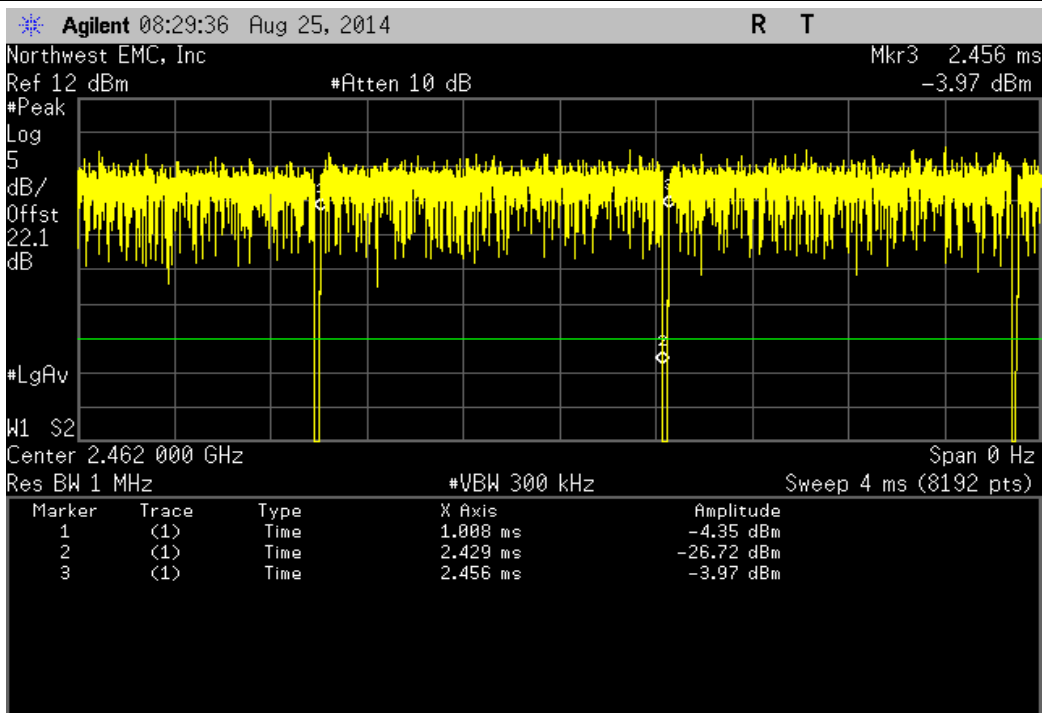
Antenna 0, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.421 mS	1.449 mS	1	98.1	N/A	N/A	



Antenna 0, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



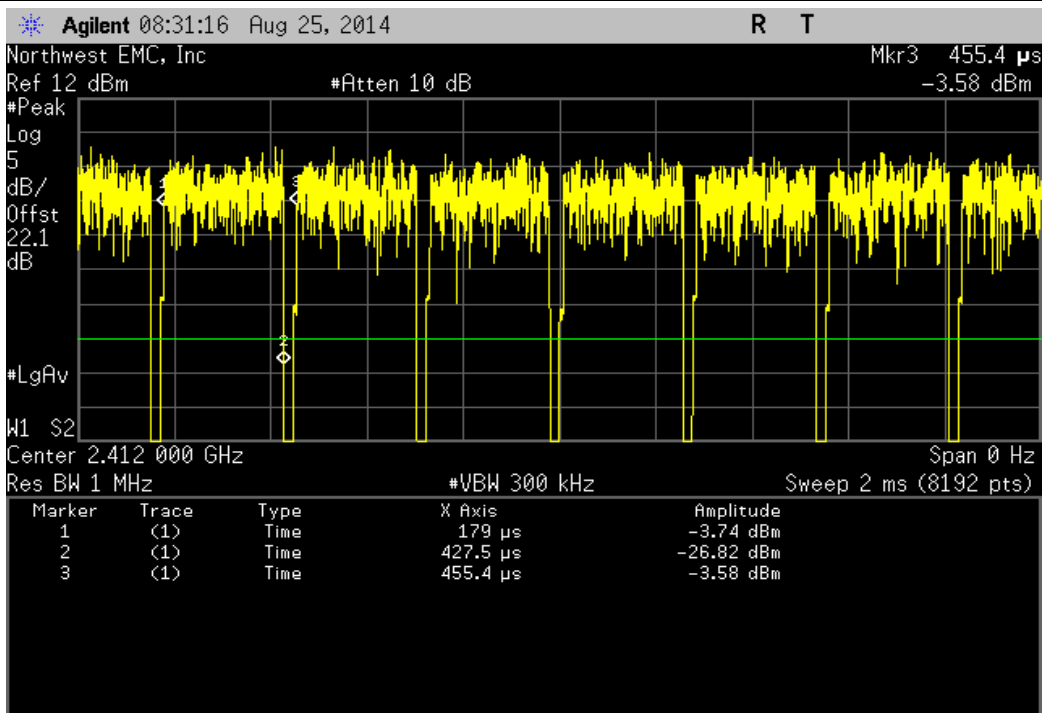
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.421 mS	1.449 mS	1	98.1	N/A	N/A	



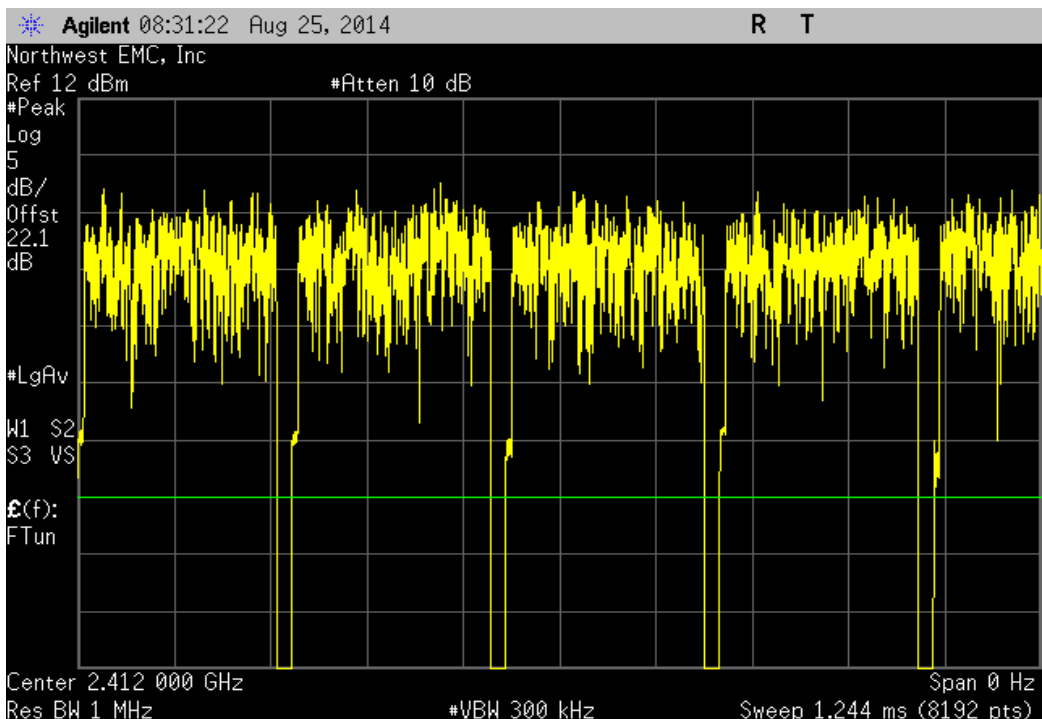
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



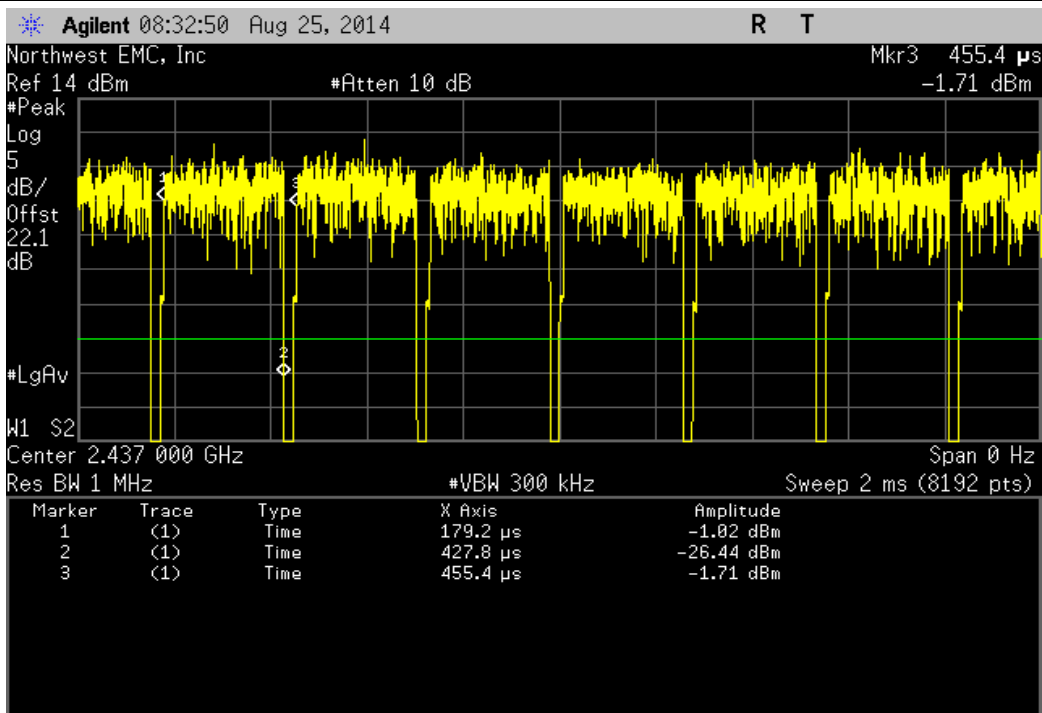
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
248.5 uS	276.4 uS	1	89.9	N/A	N/A	



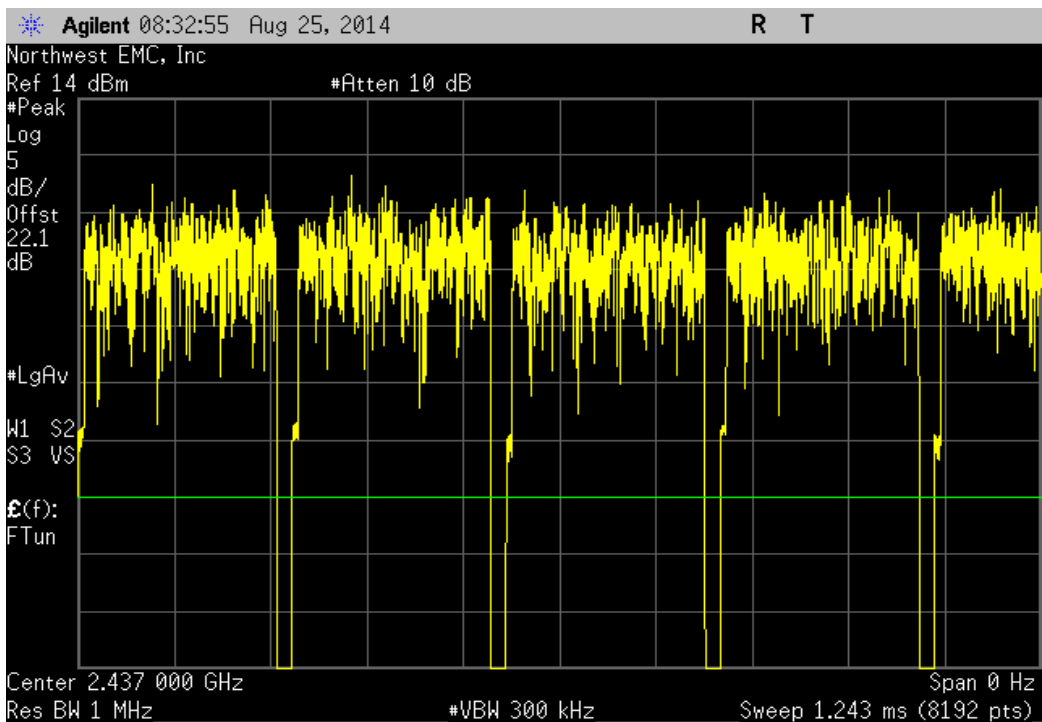
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



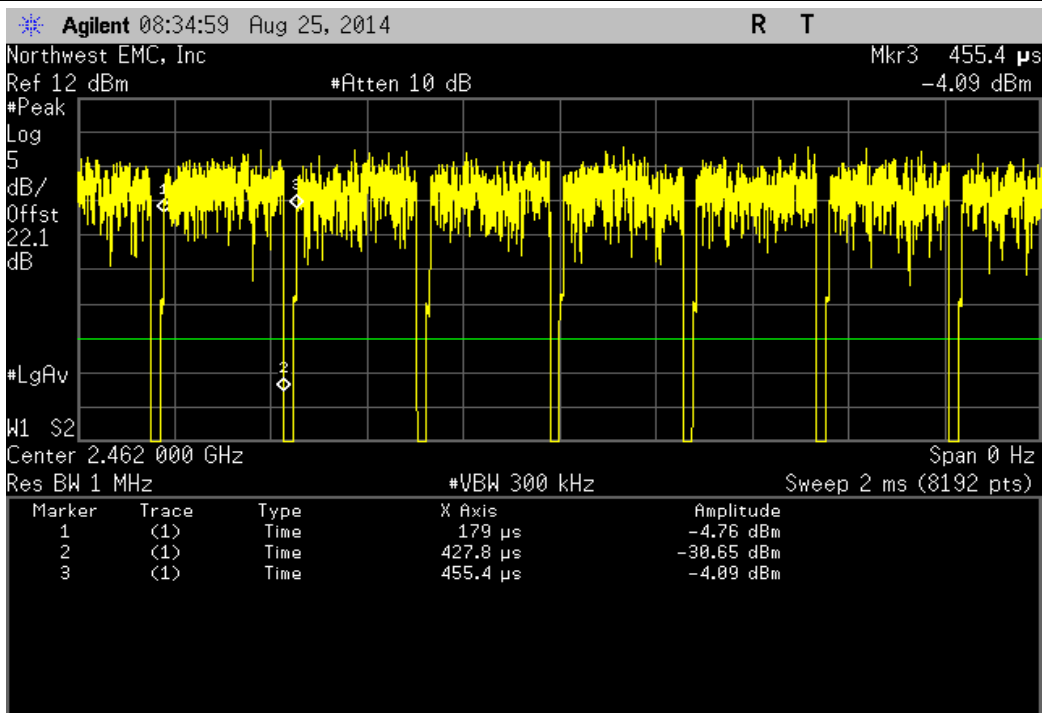
Antenna 0, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
248.6 uS	276.2 uS	1	90	N/A	N/A	



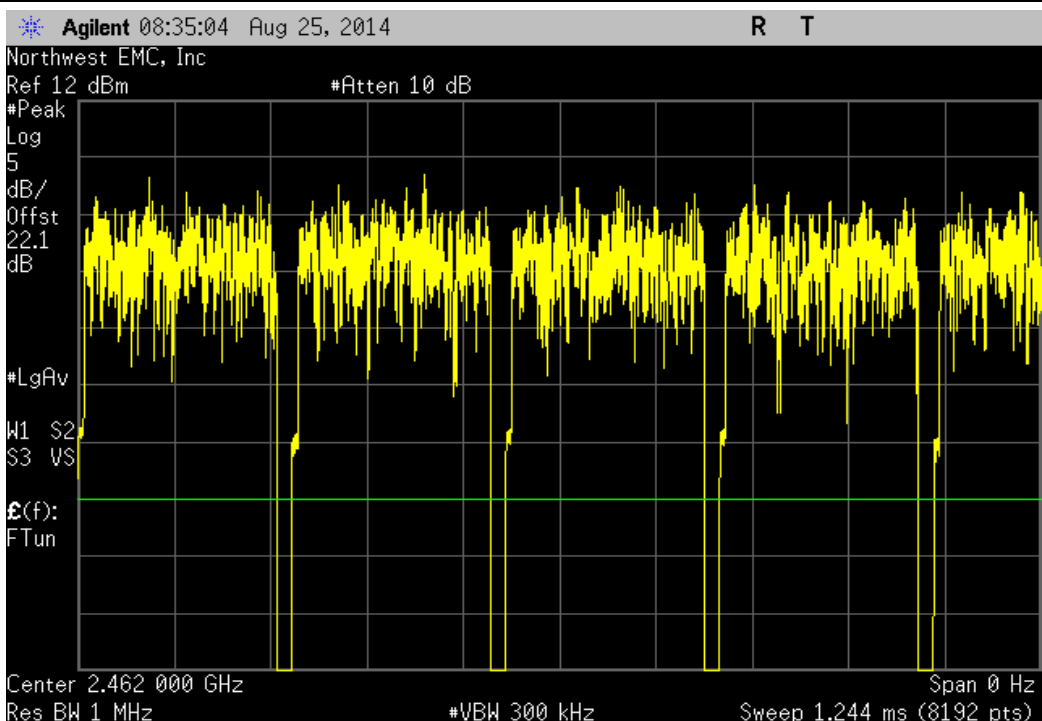
Antenna 0, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



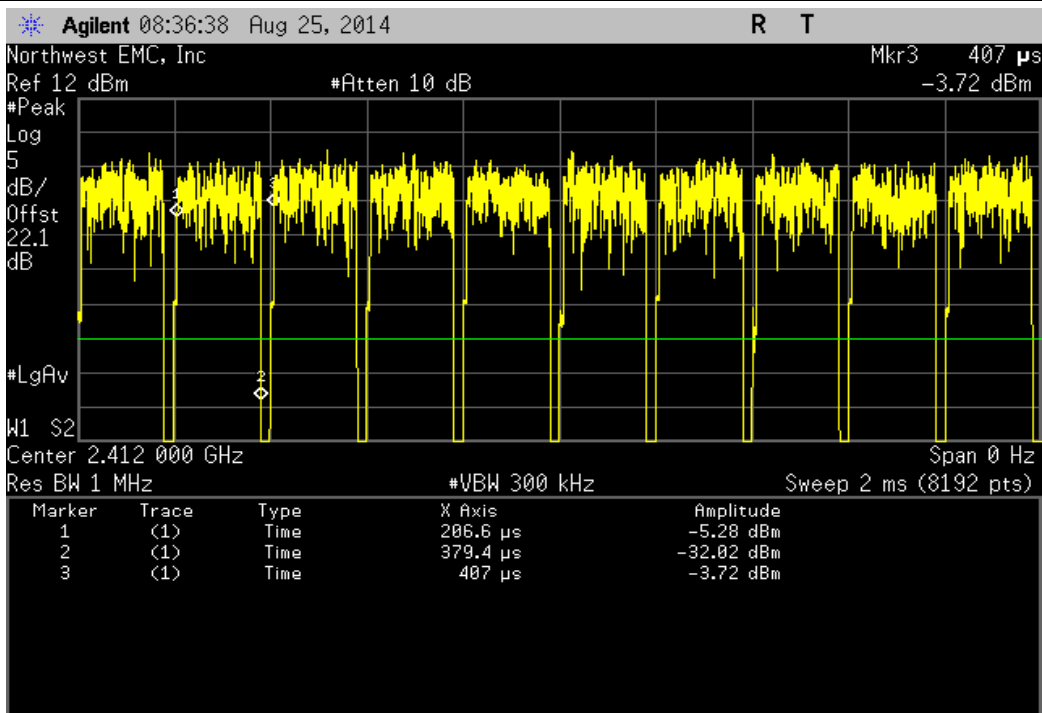
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
248.8 μ s	276.4 μ s	1	90	N/A	N/A	



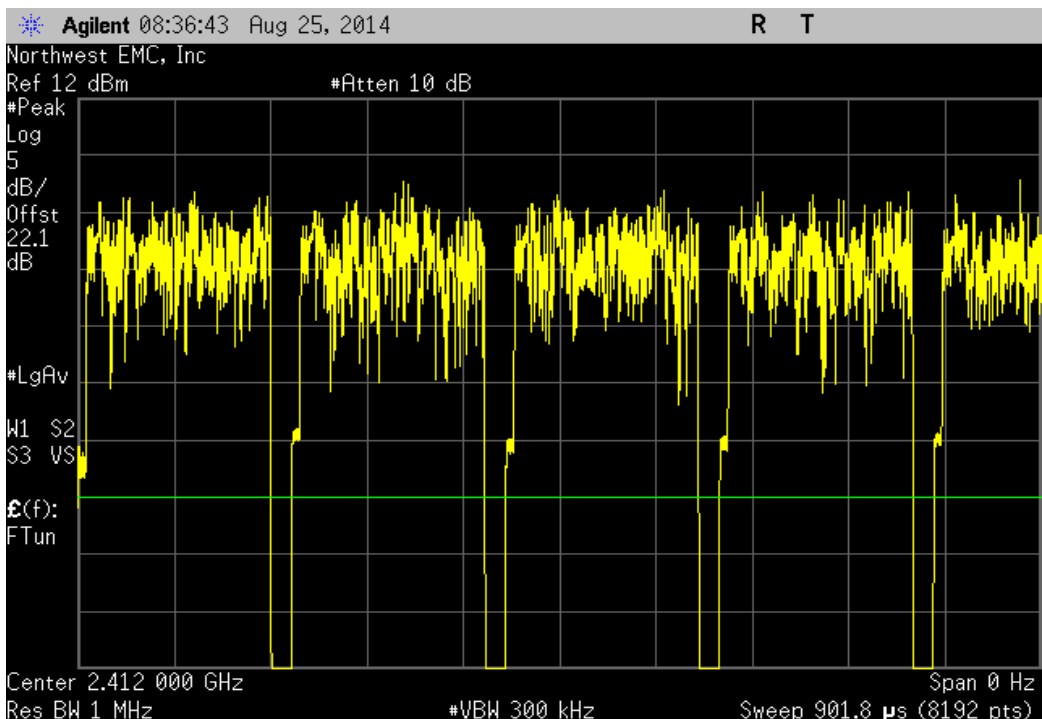
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



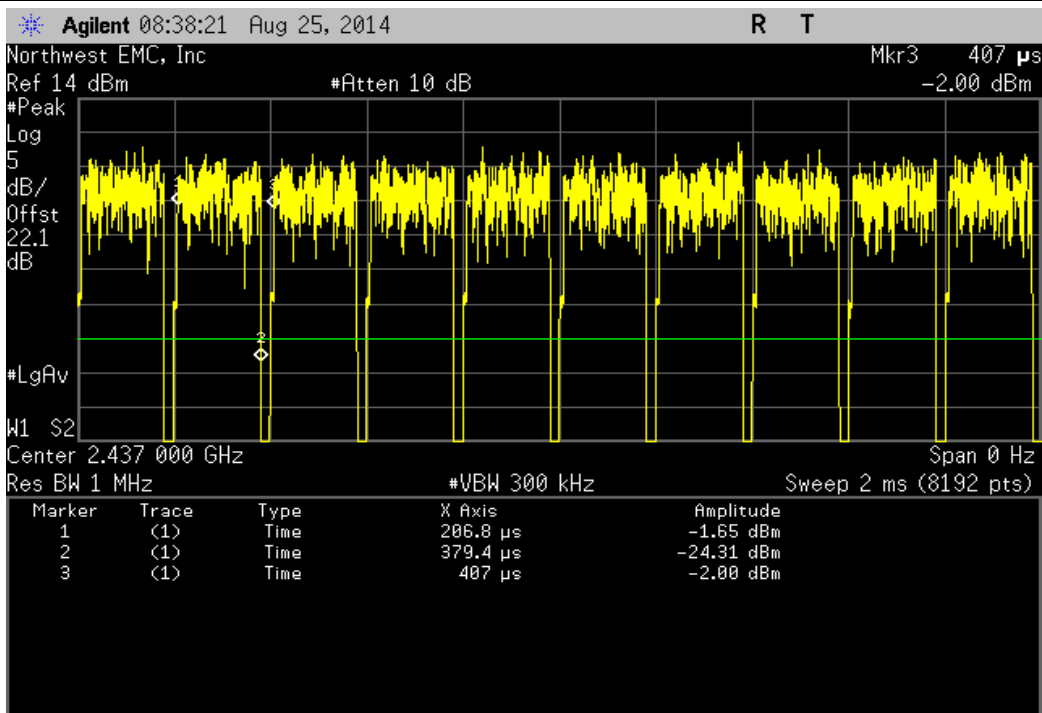
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
172.8 uS	200.4 uS	1	86.2	N/A	N/A	



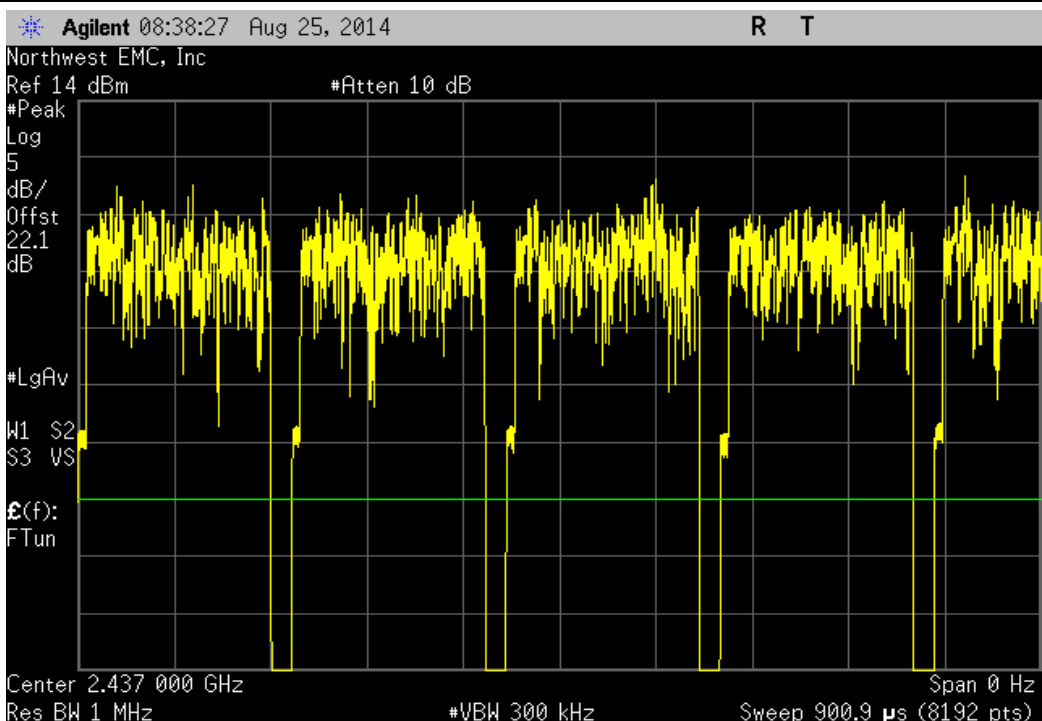
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



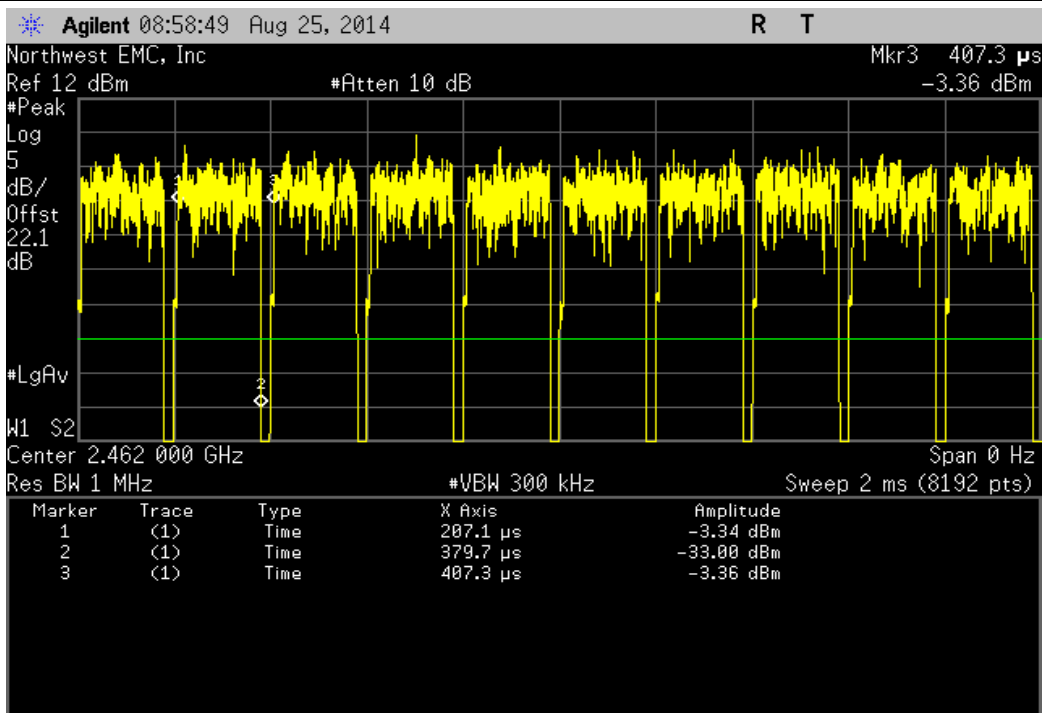
Antenna 0, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
172.6 uS	200.2 uS	1	86.2	N/A	N/A	



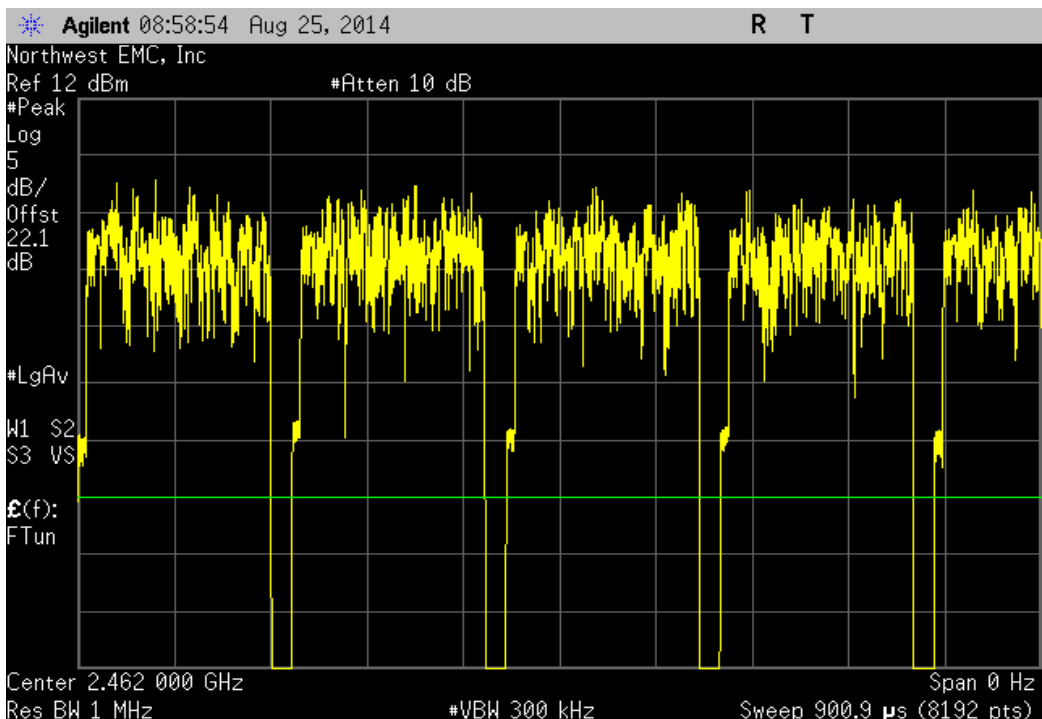
Antenna 0, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



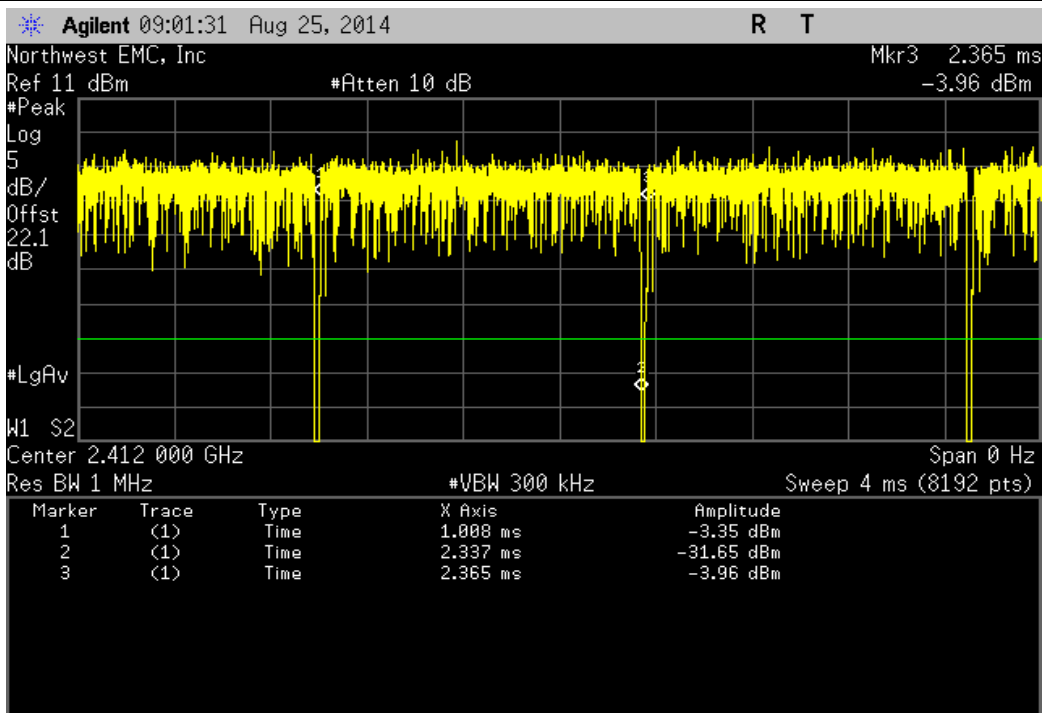
Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
172.6 uS	200.2 uS	1	86.2	N/A	N/A	



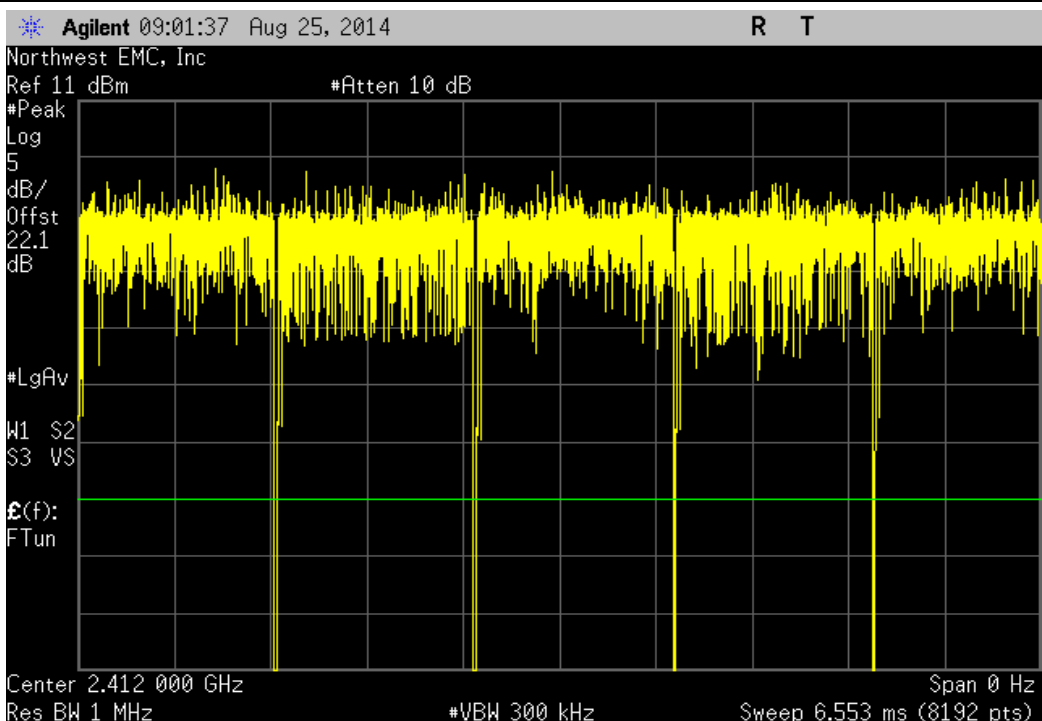
Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



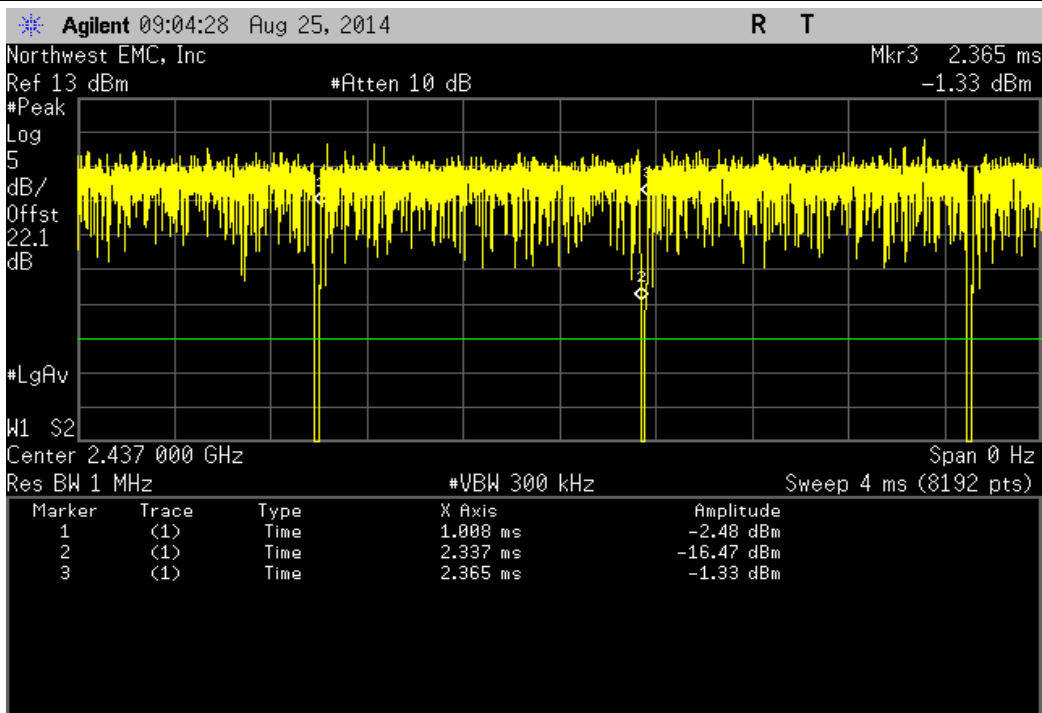
Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.329 mS	1.356 mS	1	98	N/A	N/A	



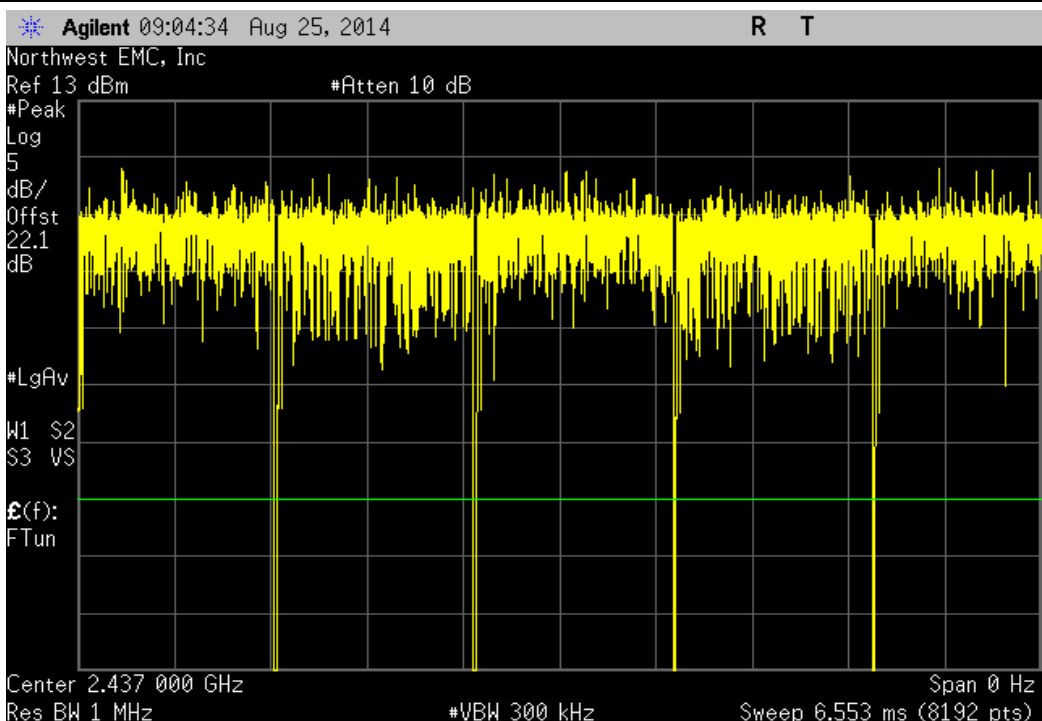
Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



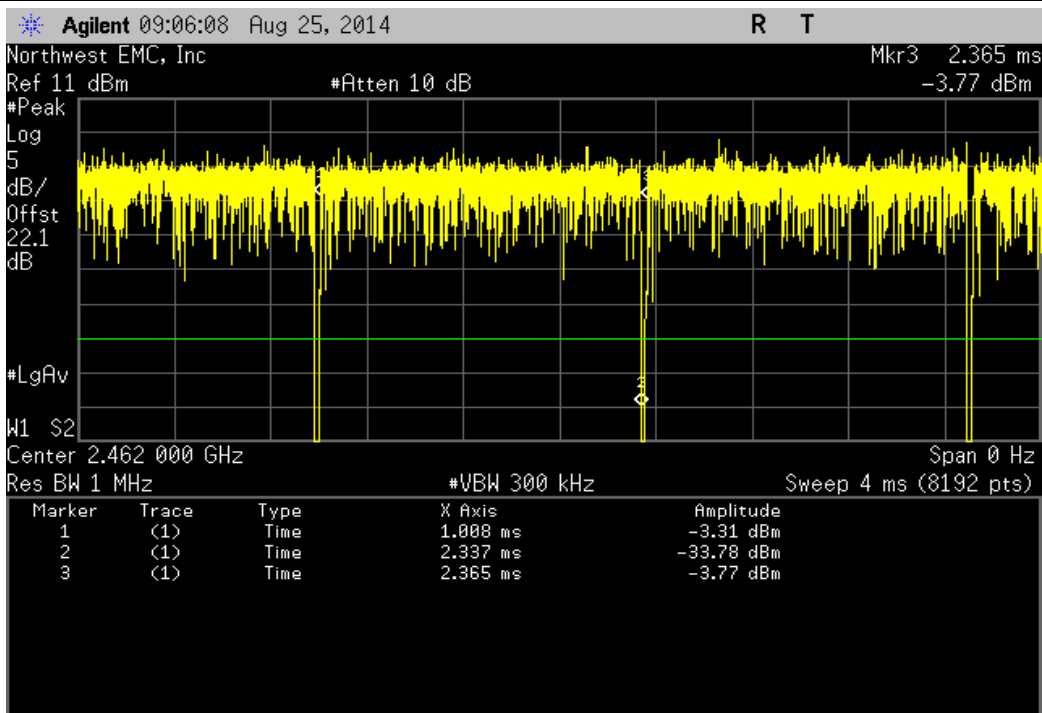
Antenna 0, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.329 mS	1.357 mS	1	98	N/A	N/A	



Antenna 0, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



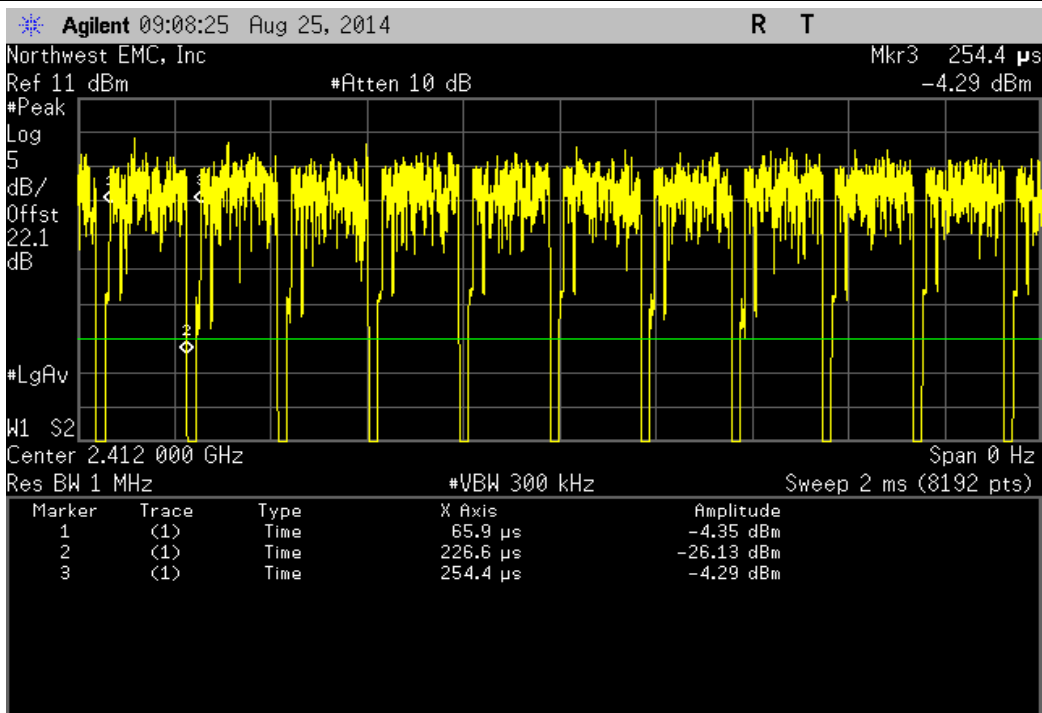
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.329 mS	1.356 mS	1	98	N/A	N/A	



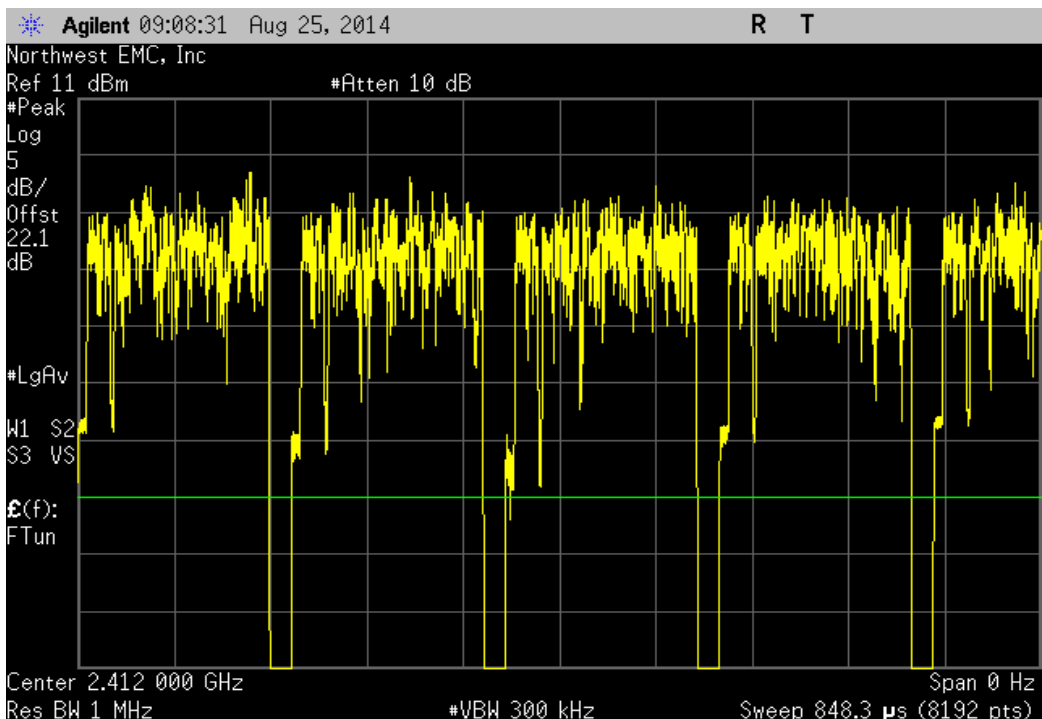
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



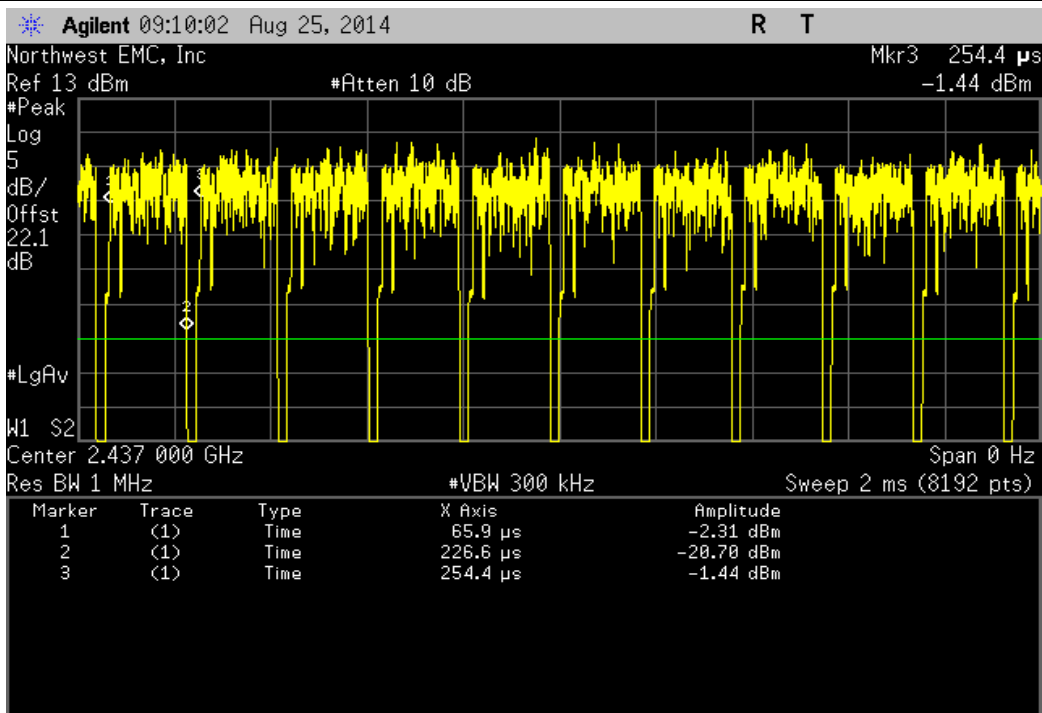
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
160.7 μ S	188.5 μ S	1	85.3	N/A	N/A	



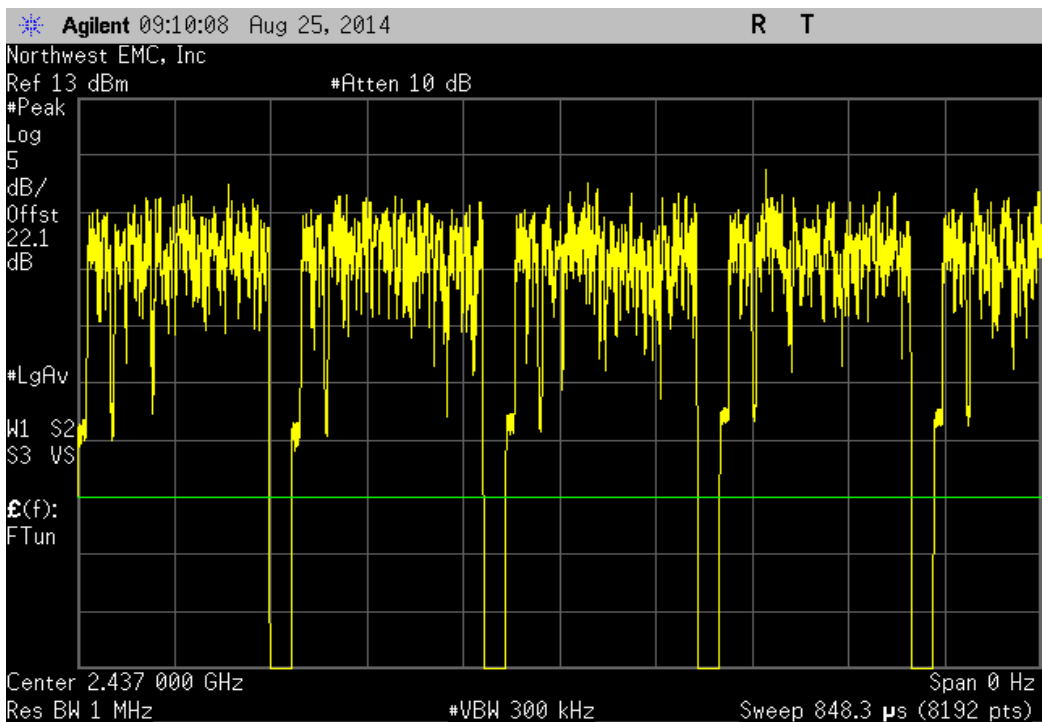
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



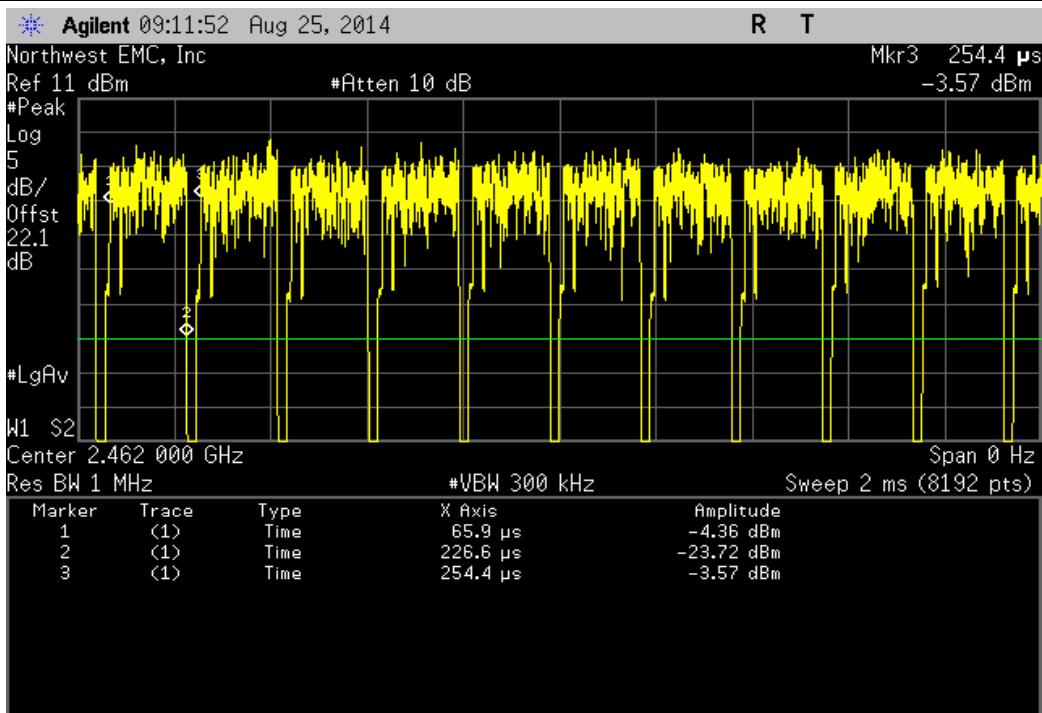
Antenna 0, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
160.7 uS	188.5 uS	1	85.3	N/A	N/A	



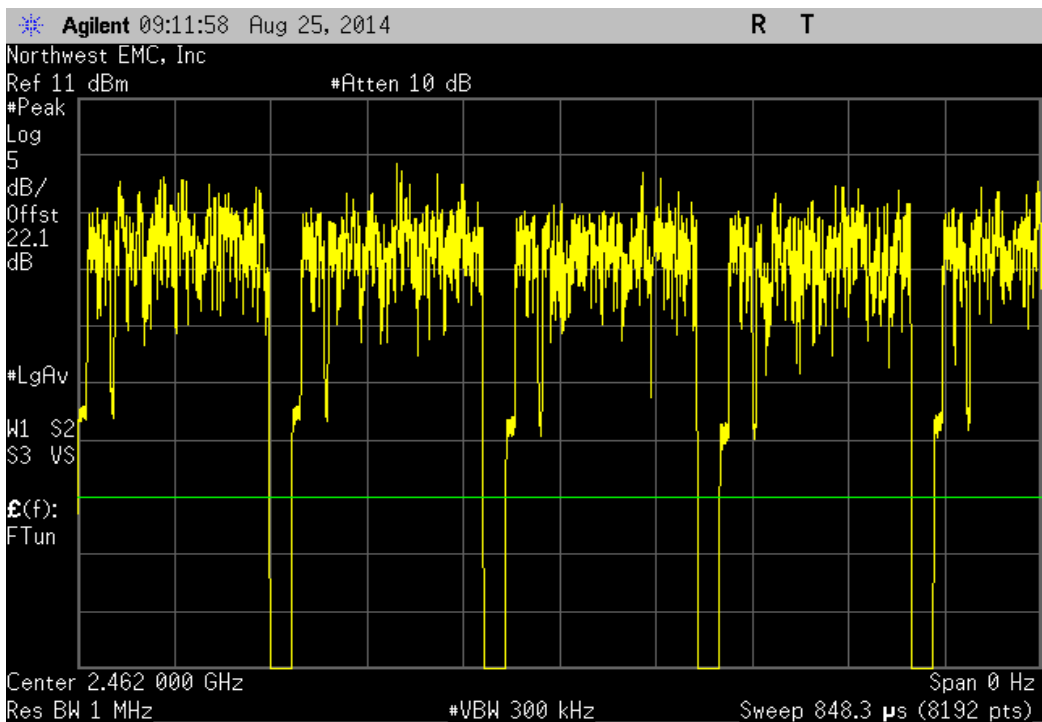
Antenna 0, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



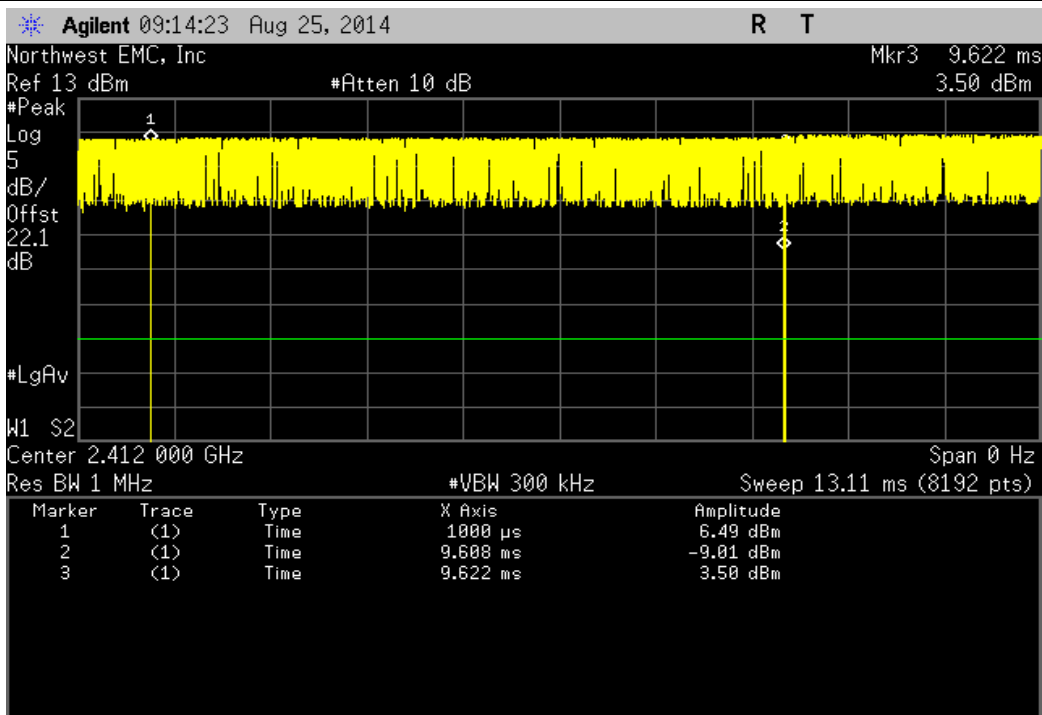
Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
160.7 uS	188.5 uS	1	85.3	N/A	N/A	



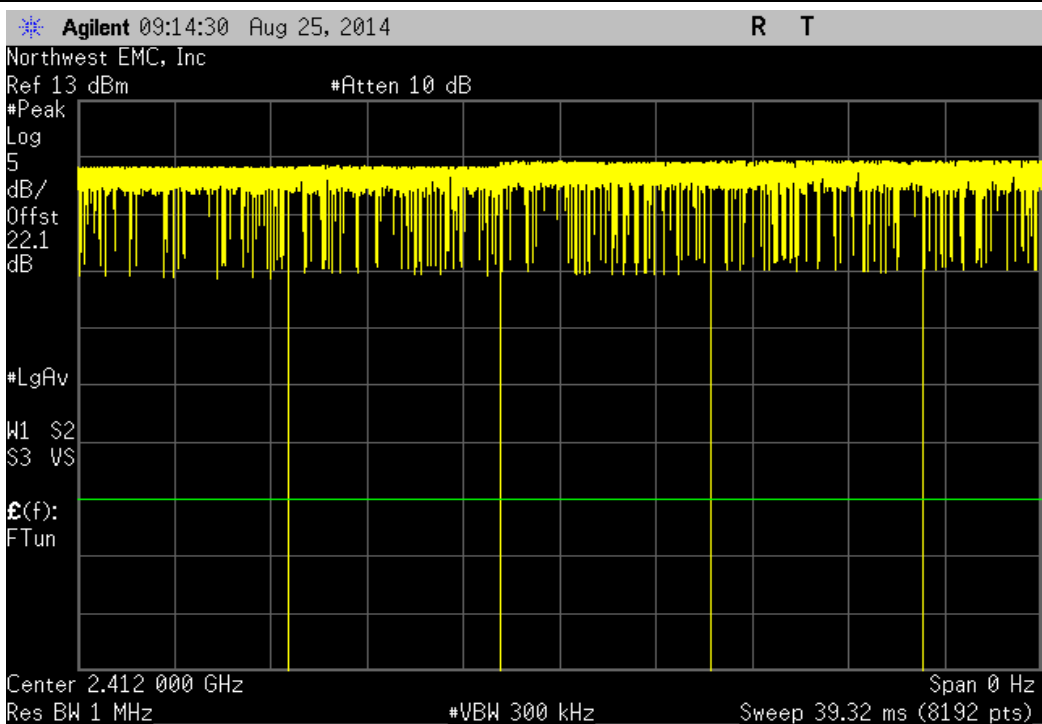
Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
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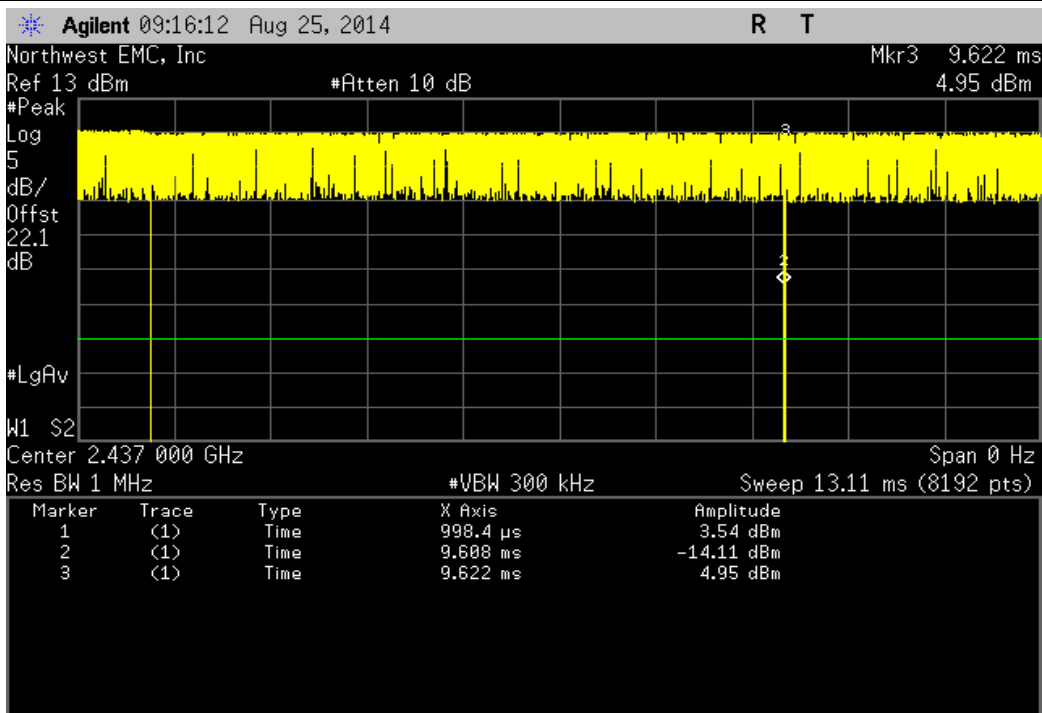
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	8.608 mS	8.622 mS	1	99.8	N/A	N/A



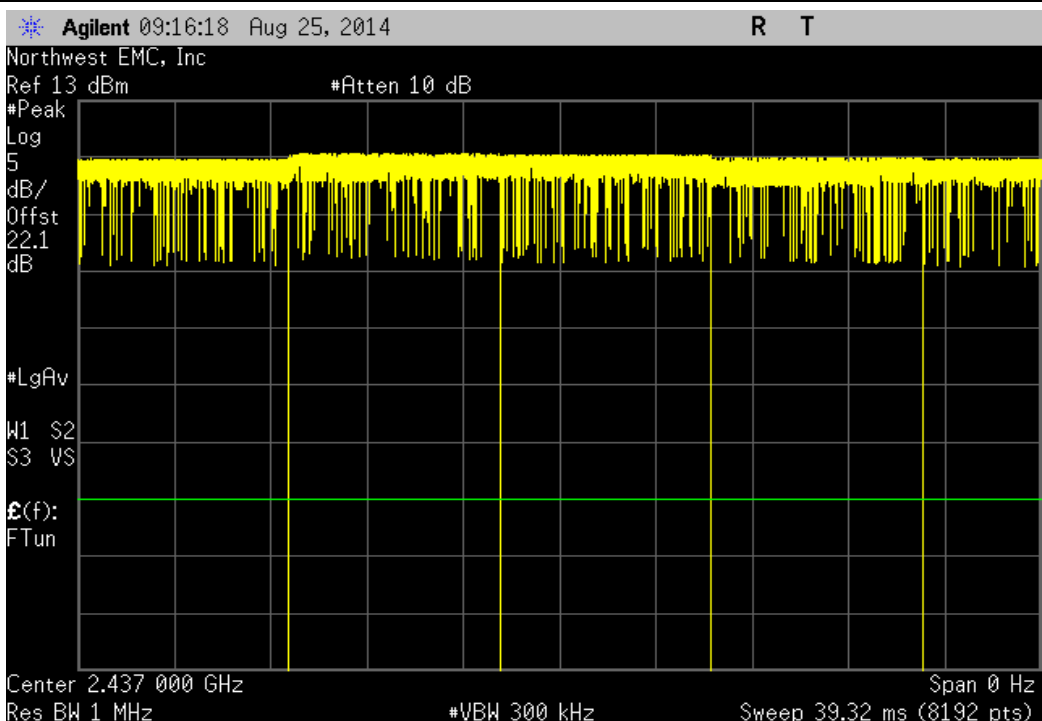
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A



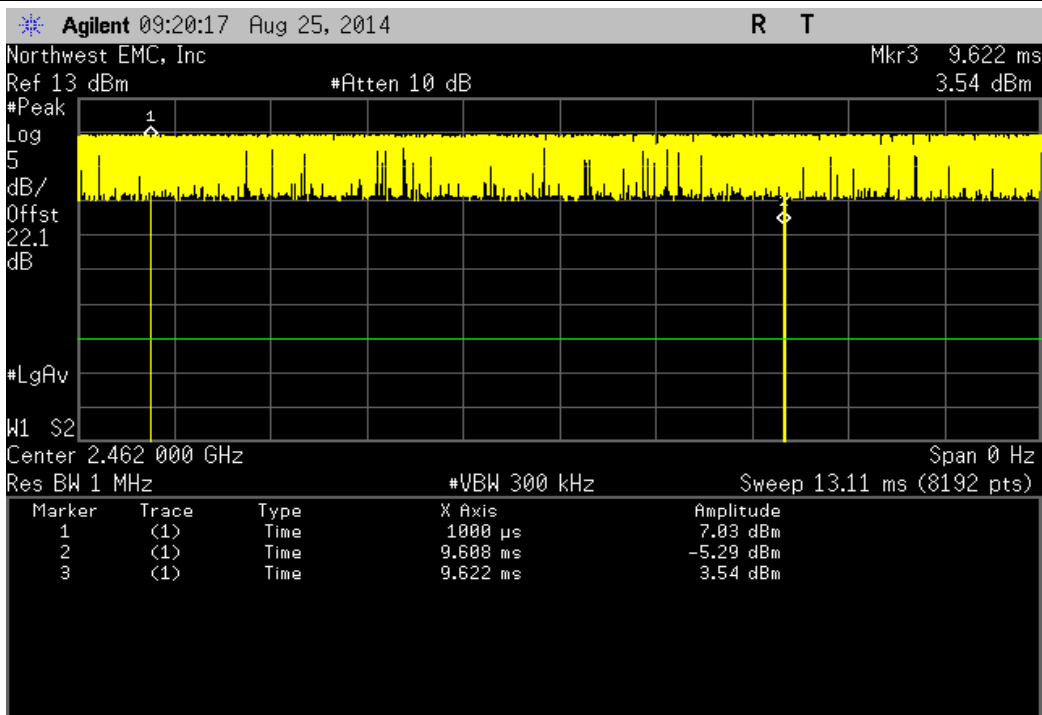
Antenna 1, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	8.61 mS	8.624 mS	1	99.8	N/A	N/A



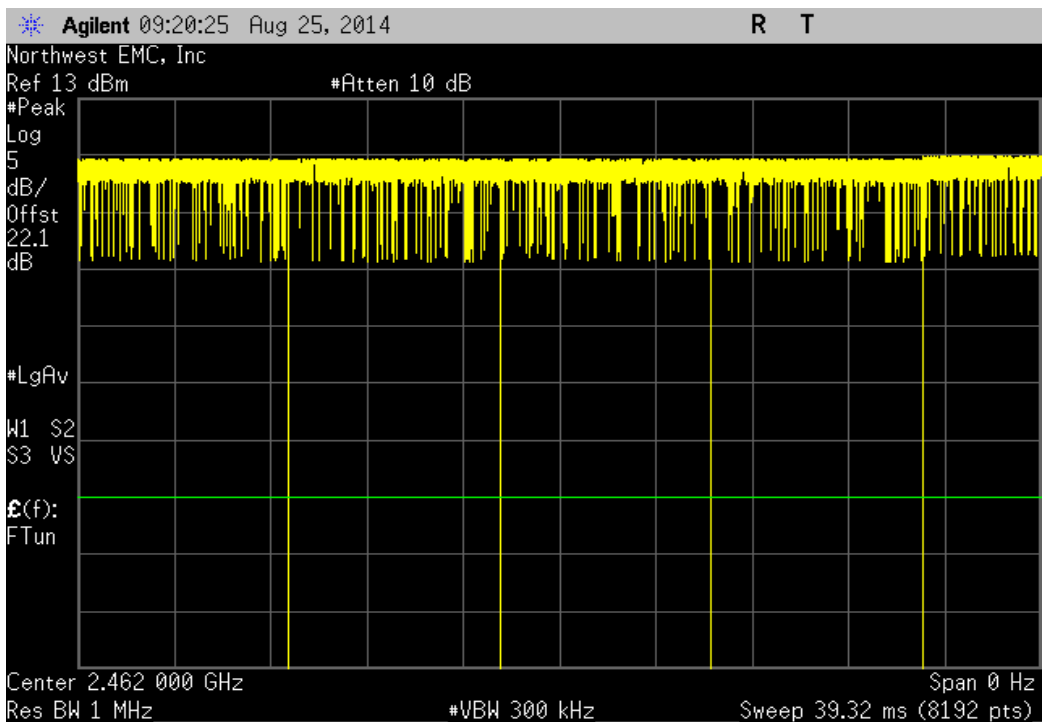
Antenna 1, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A



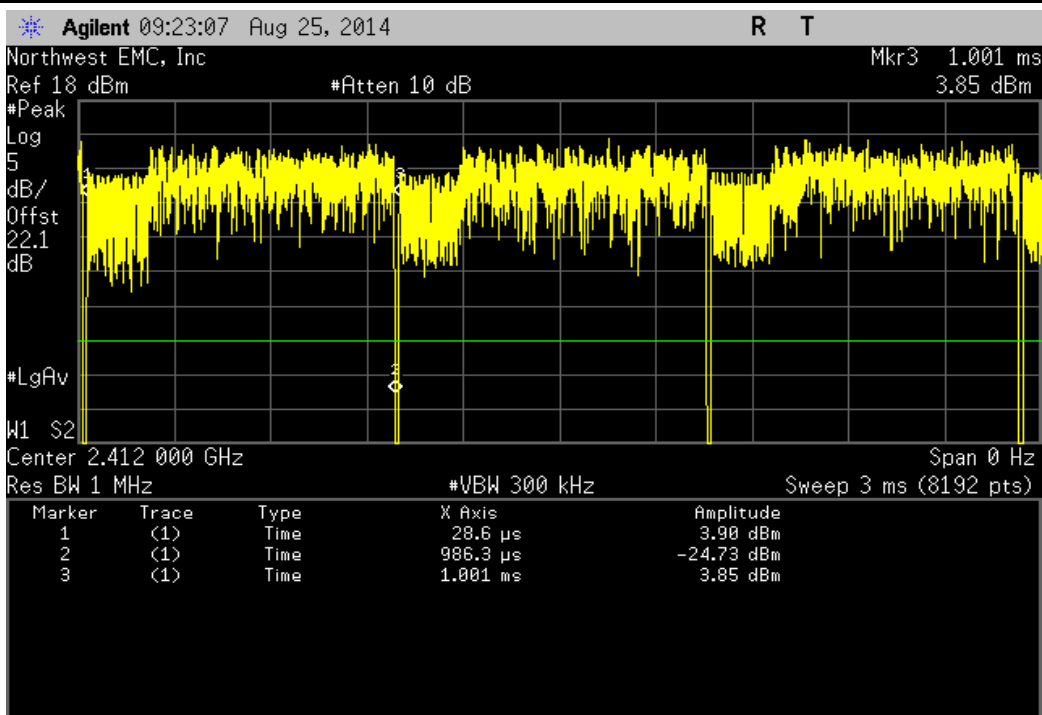
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	8.608 mS	8.622 mS	1	99.8	N/A	N/A



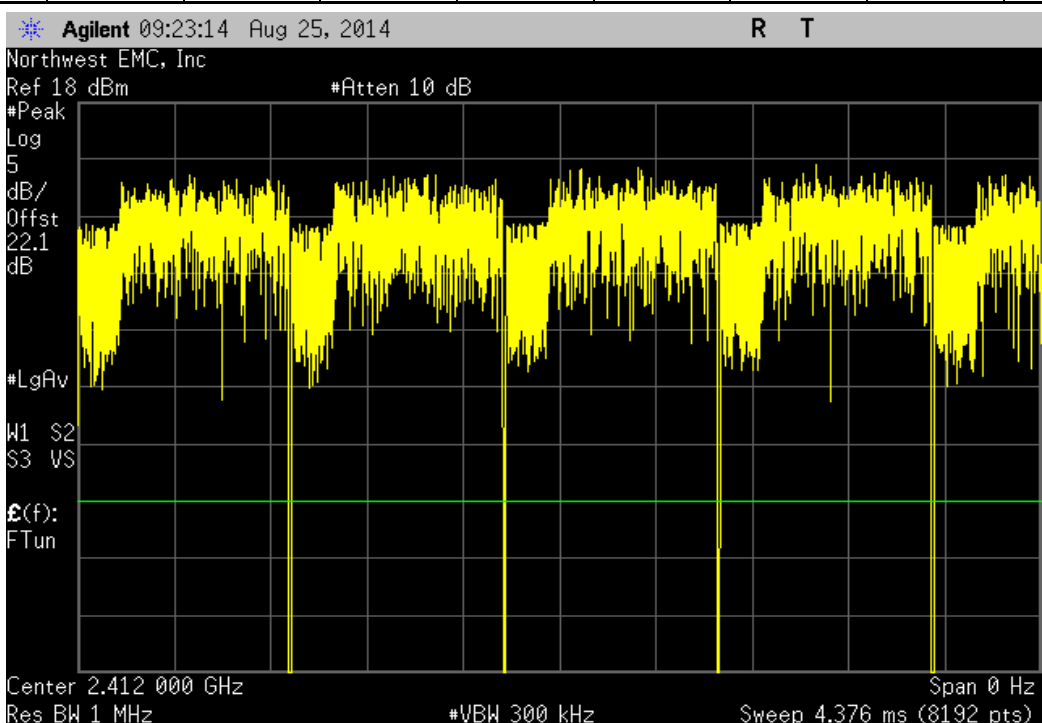
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A



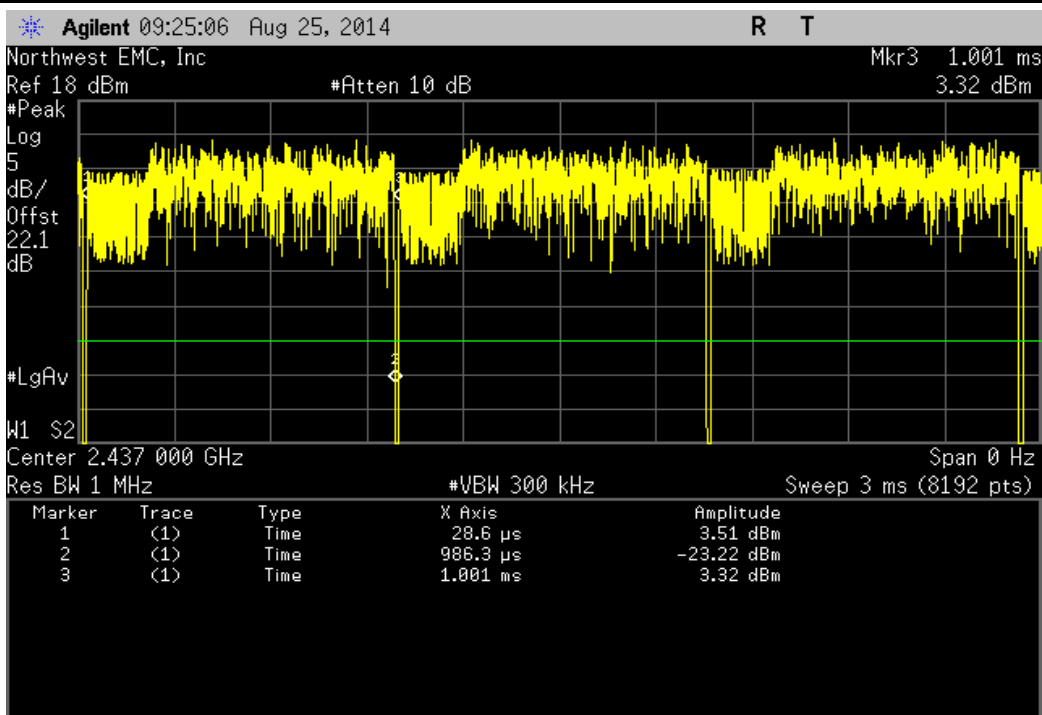
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
957.7 uS	972.4 uS	1	98.5	N/A	N/A	



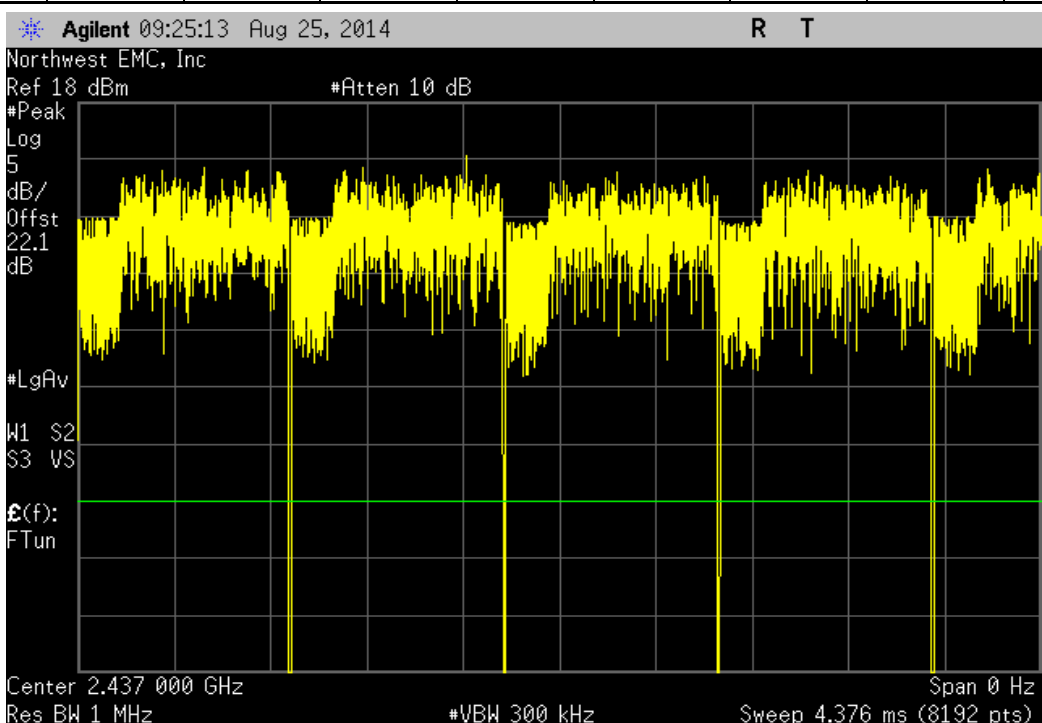
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



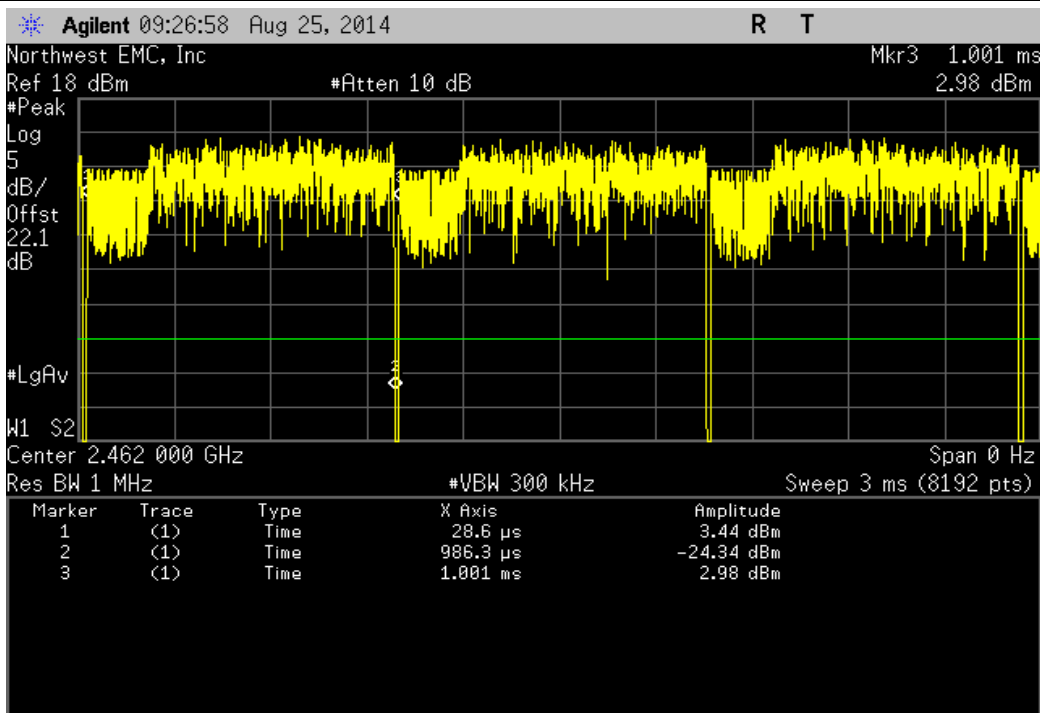
Antenna 1, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
957.7 uS	972.4 uS	1	98.5	N/A	N/A	



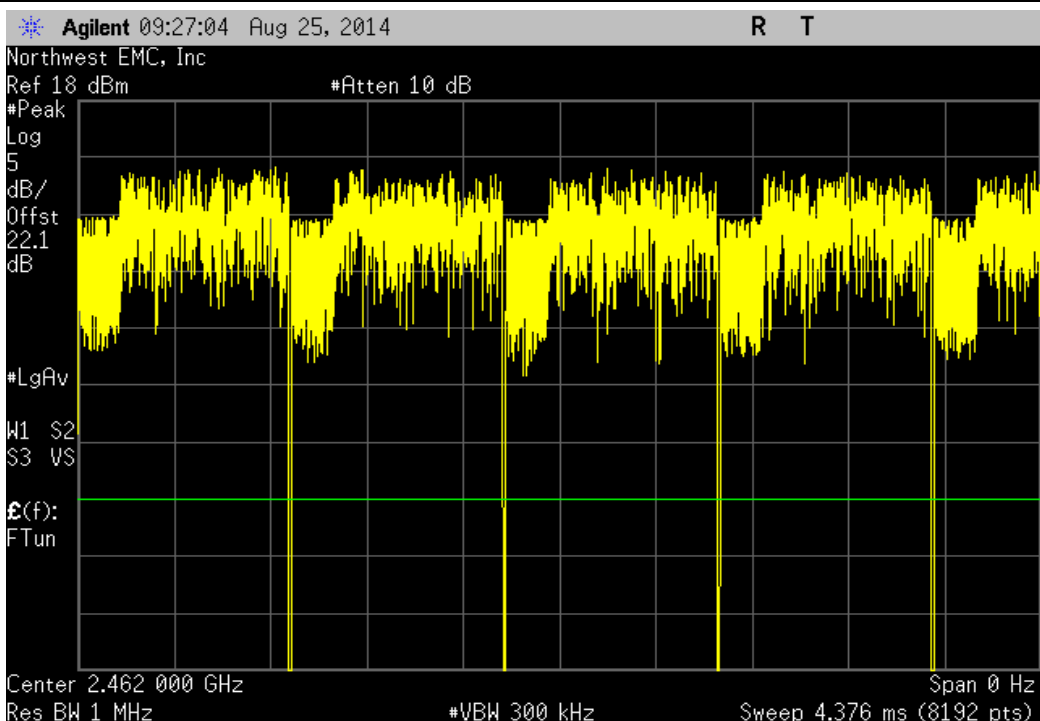
Antenna 1, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



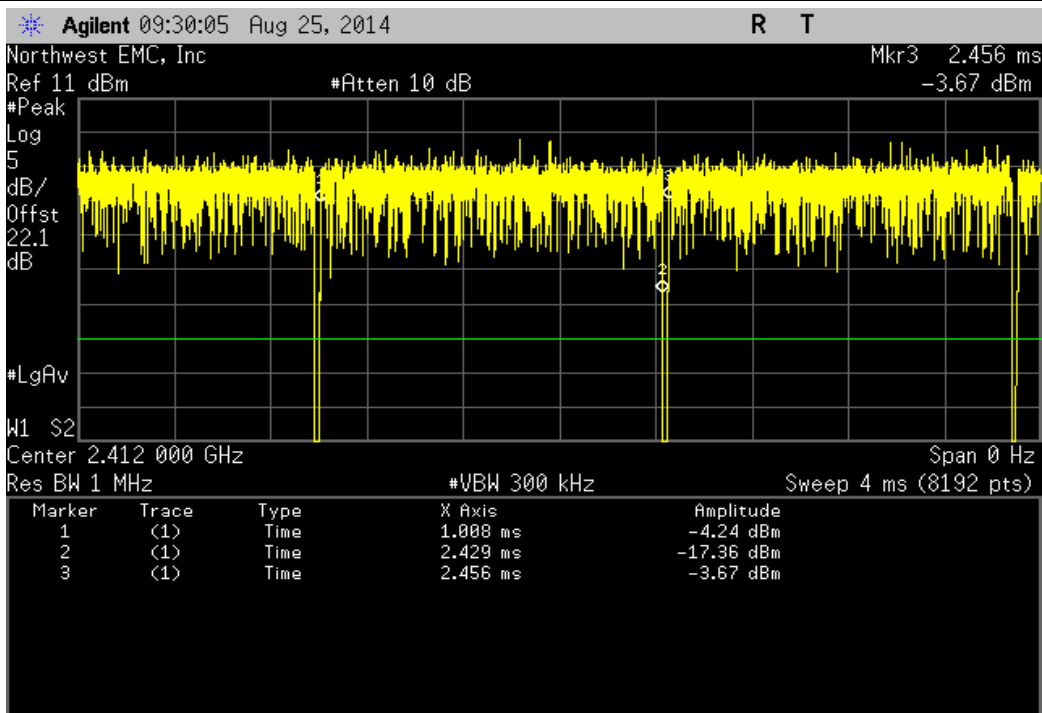
Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
957.7 uS	972.4 uS	1	98.5	N/A	N/A	



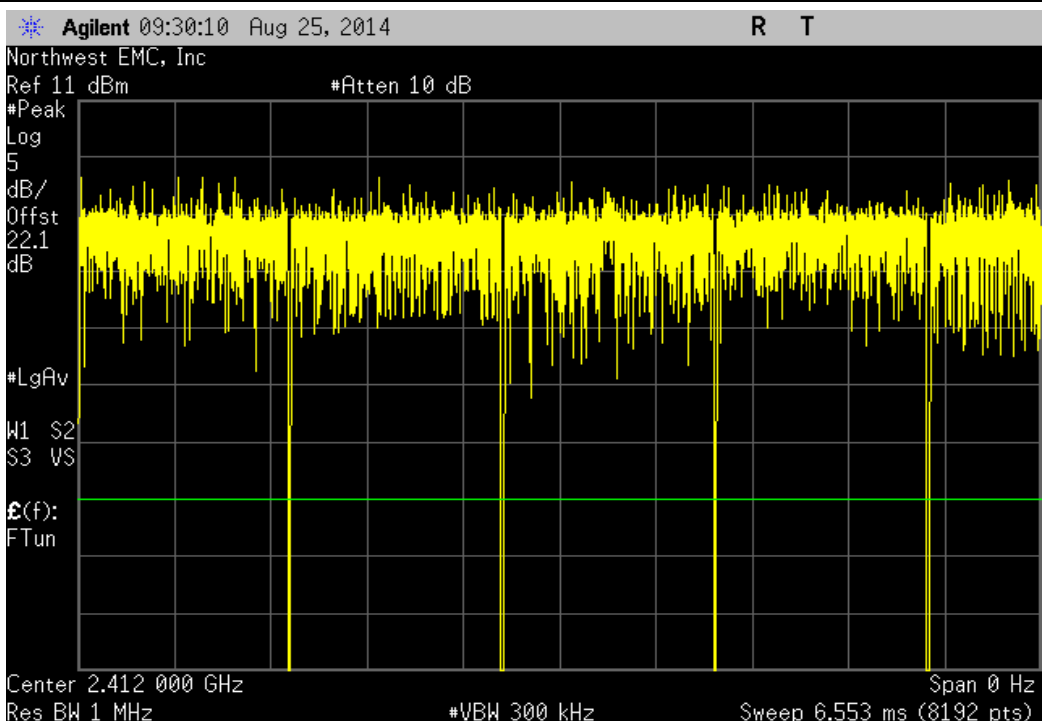
Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



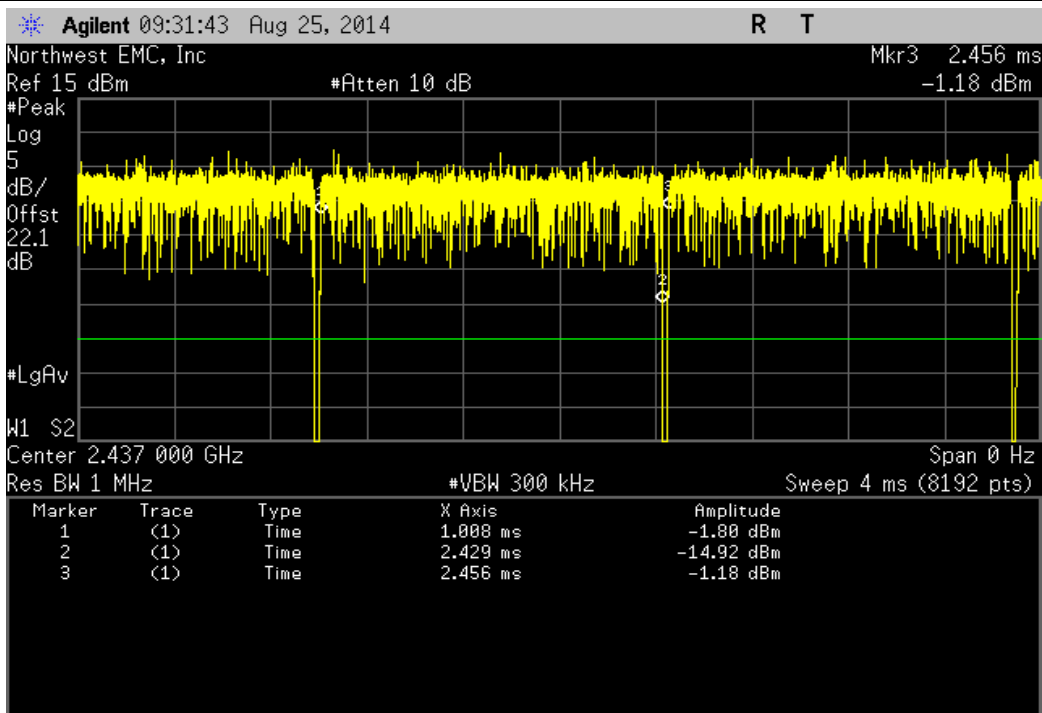
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	1.421 mS	1.449 mS	1	98.1	N/A	N/A



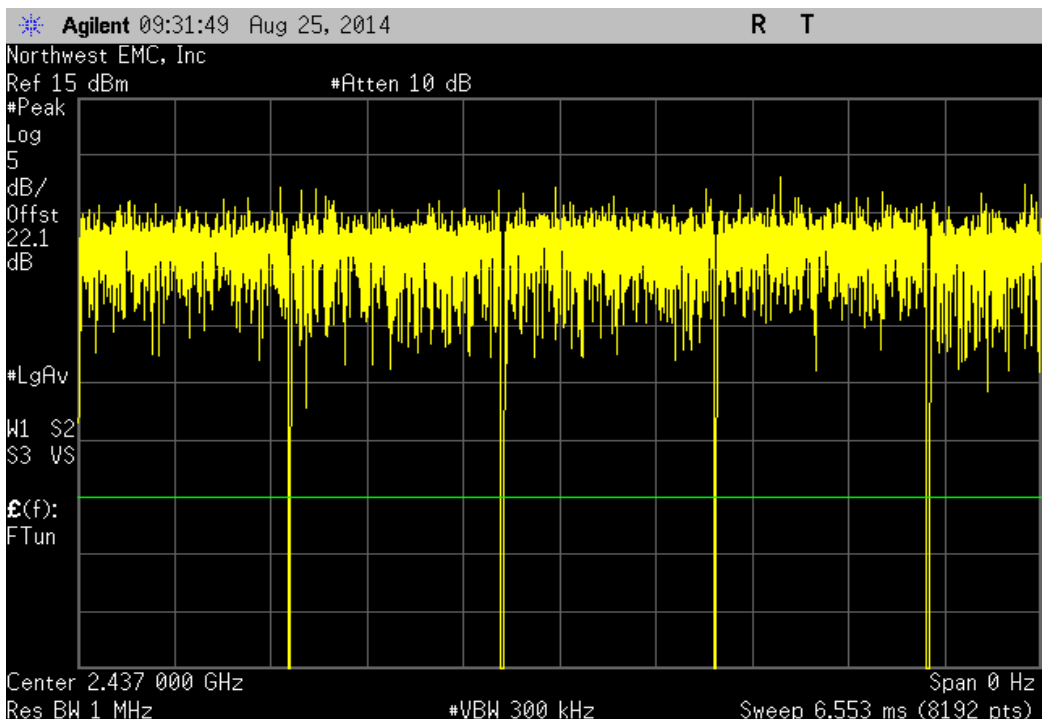
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A



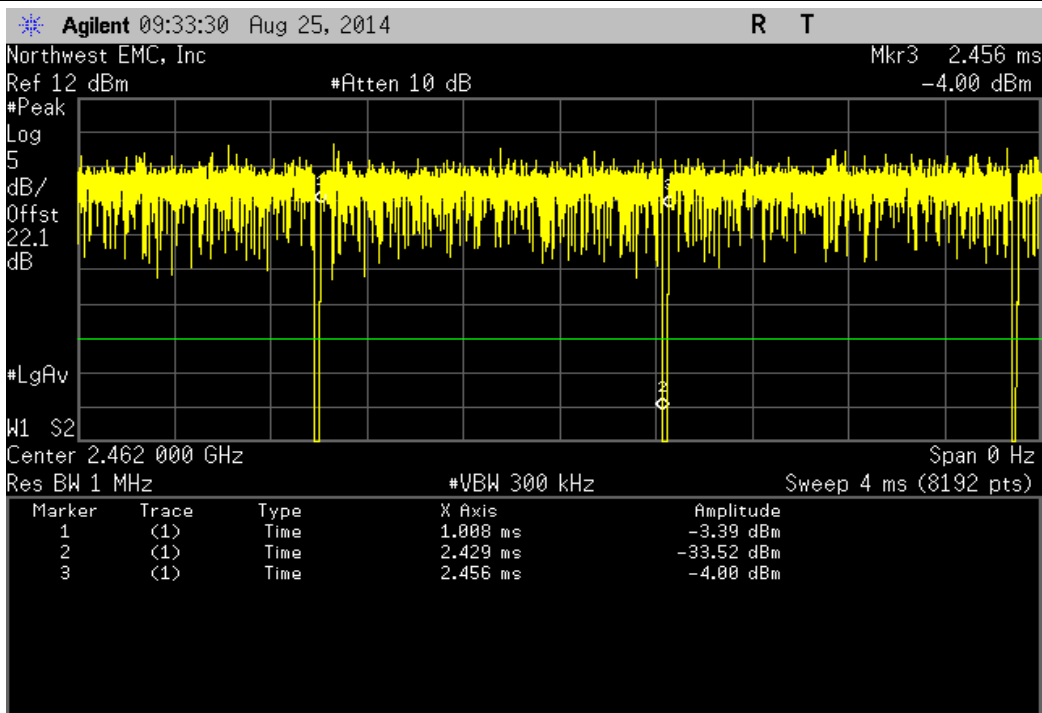
Antenna 1, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.421 mS	1.449 mS	1	98.1	N/A	N/A	



Antenna 1, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



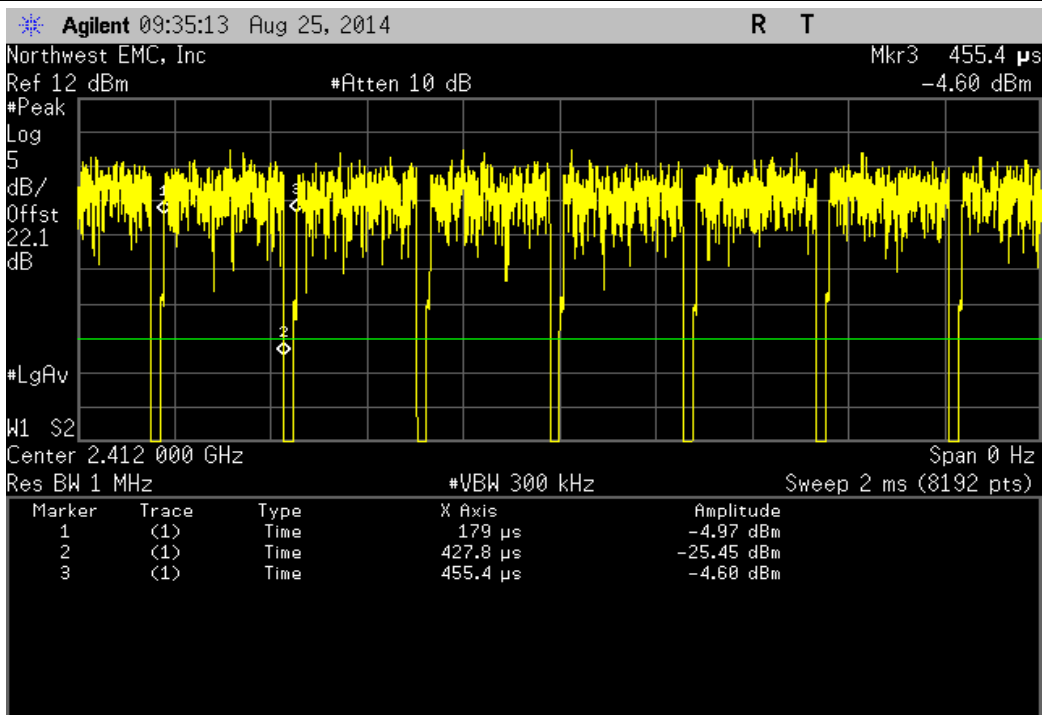
Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.421 mS	1.448 mS	1	98.1	N/A	N/A	



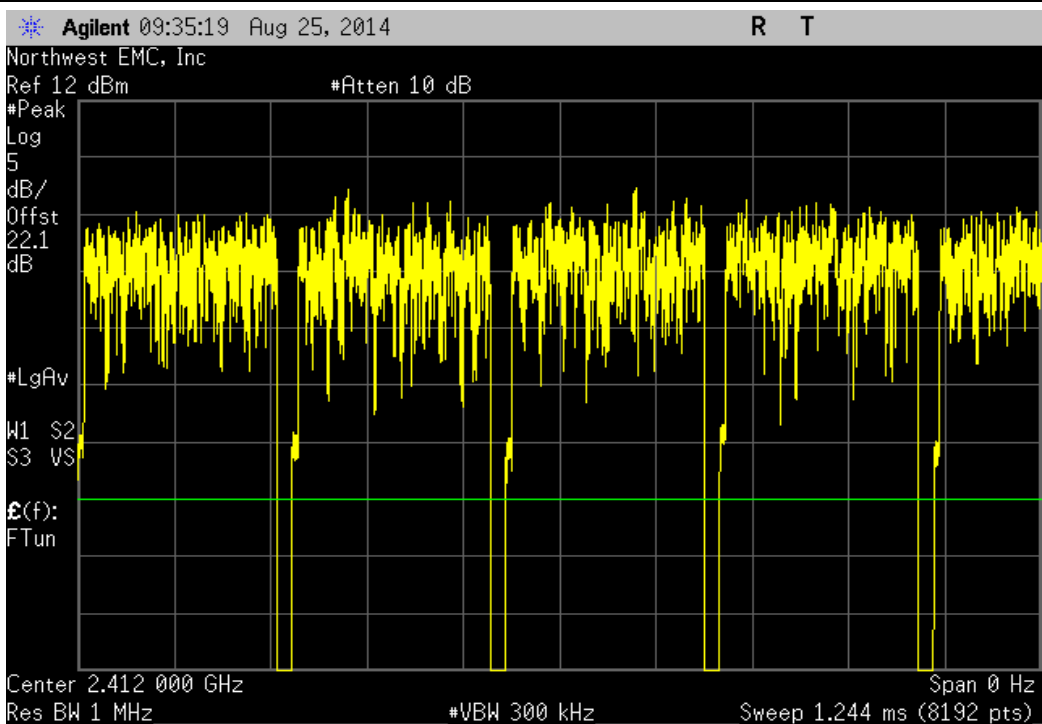
Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



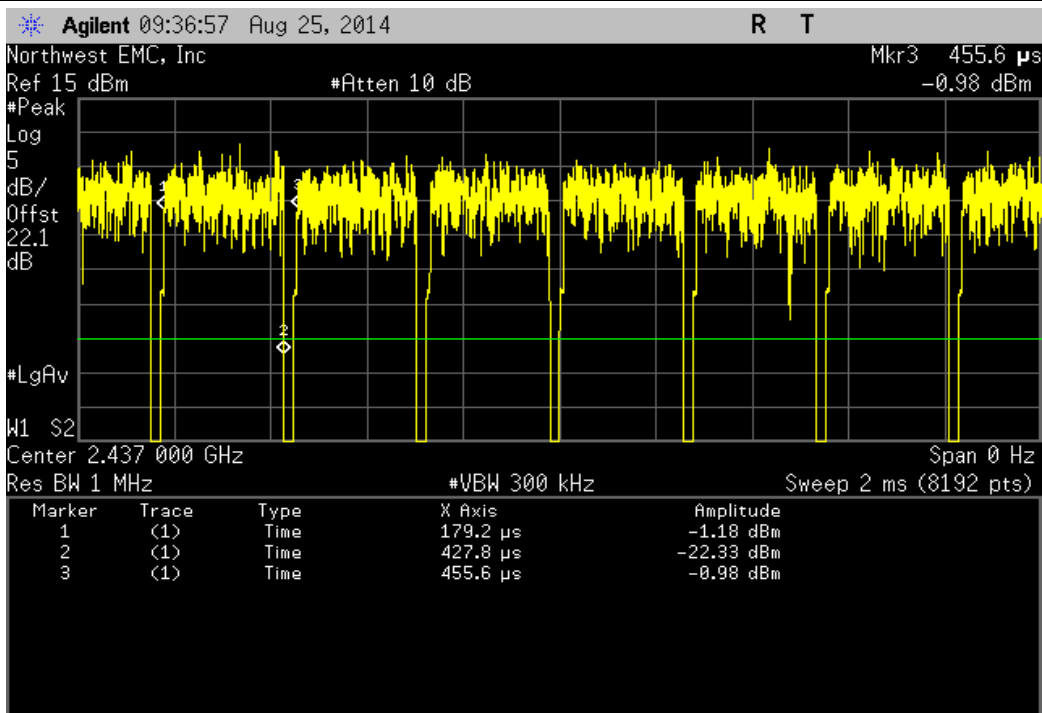
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
248.8 uS	276.4 uS	1	90	N/A	N/A	



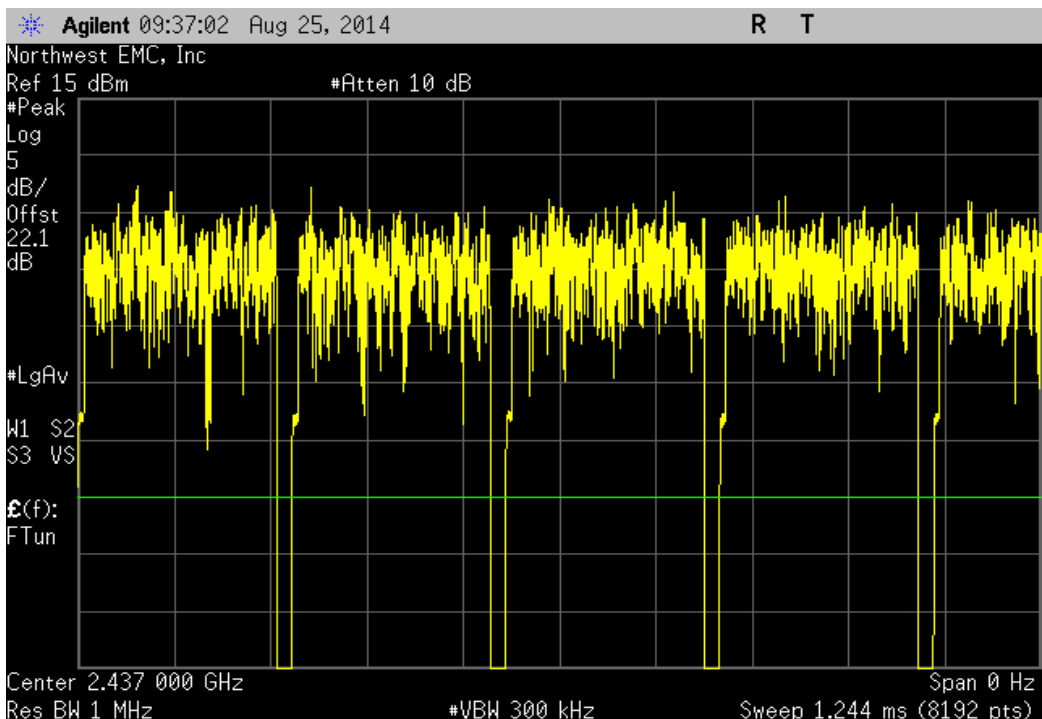
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



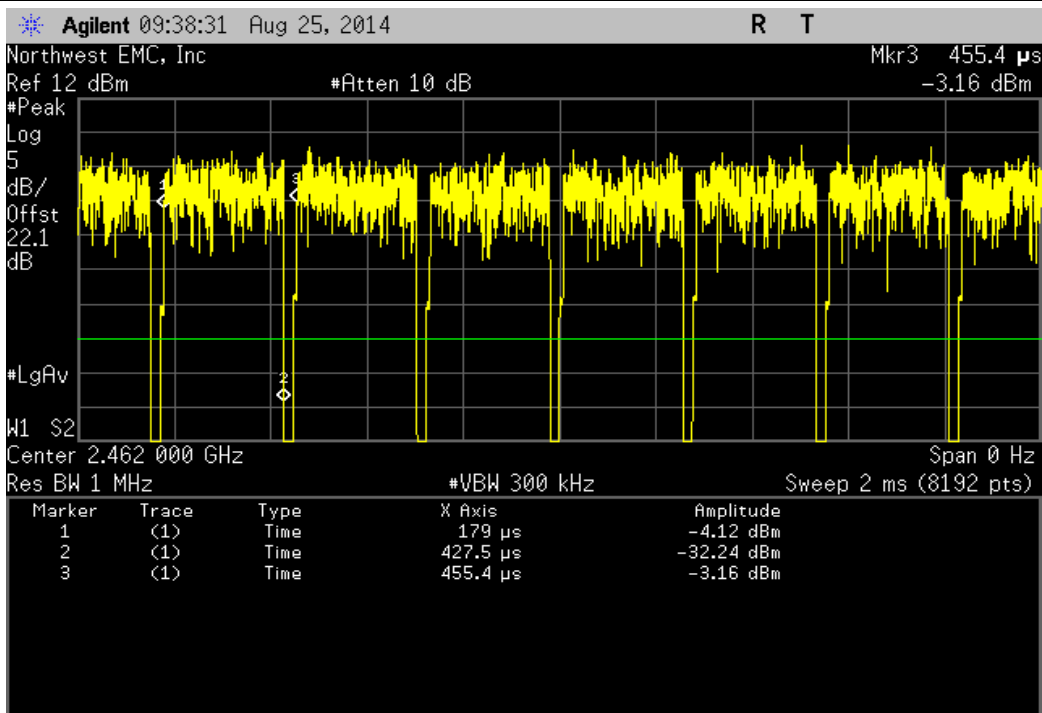
Antenna 1, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
248.6 μ S	276.4 μ S	1	89.9	N/A	N/A	



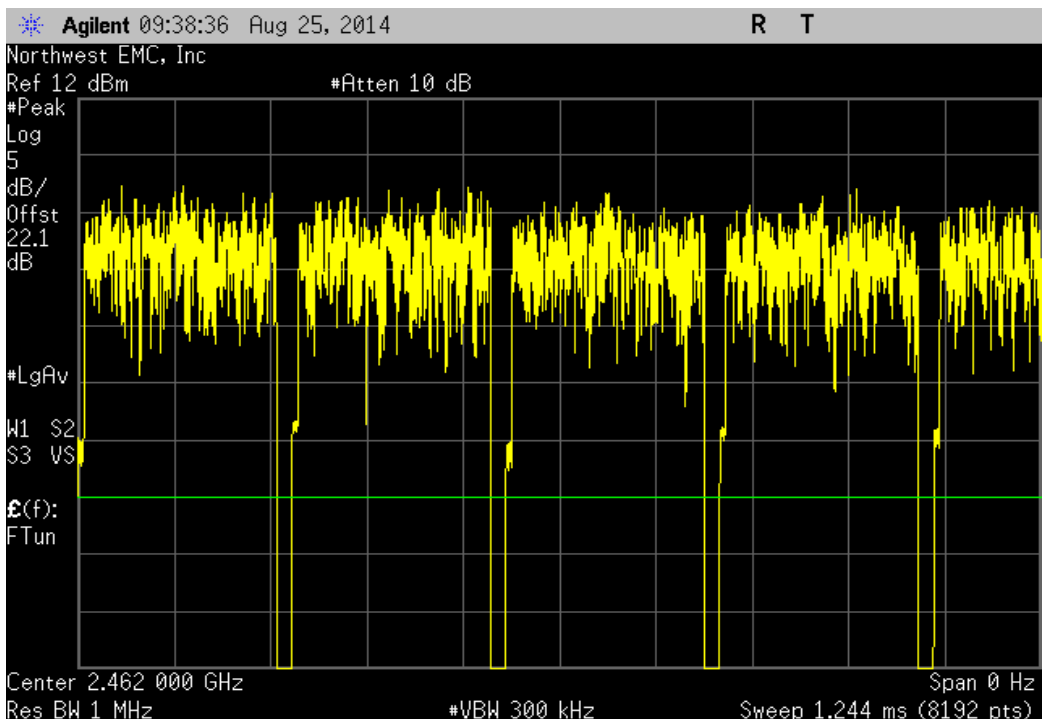
Antenna 1, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



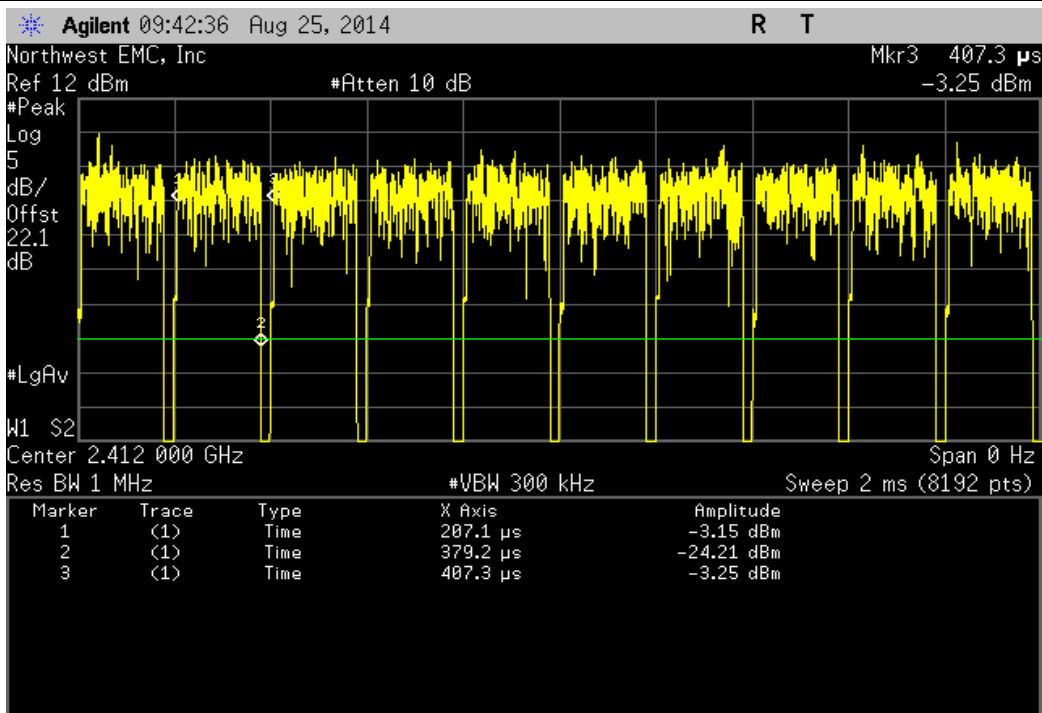
Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
248.5 μ s	276.4 μ s	1	89.9	N/A	N/A	



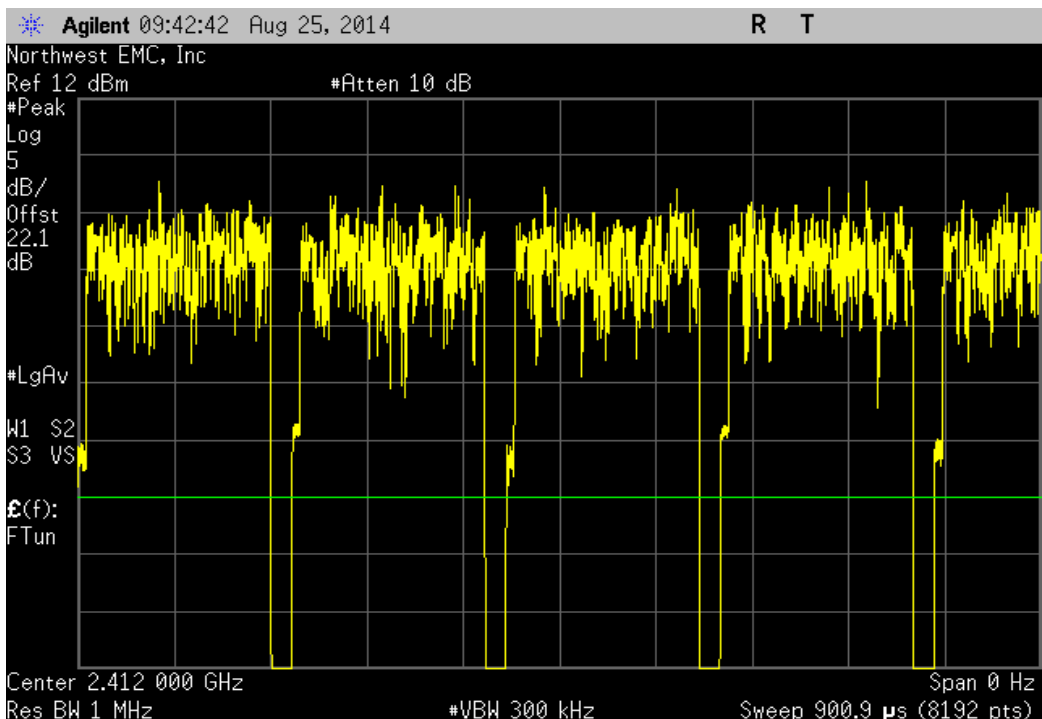
Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



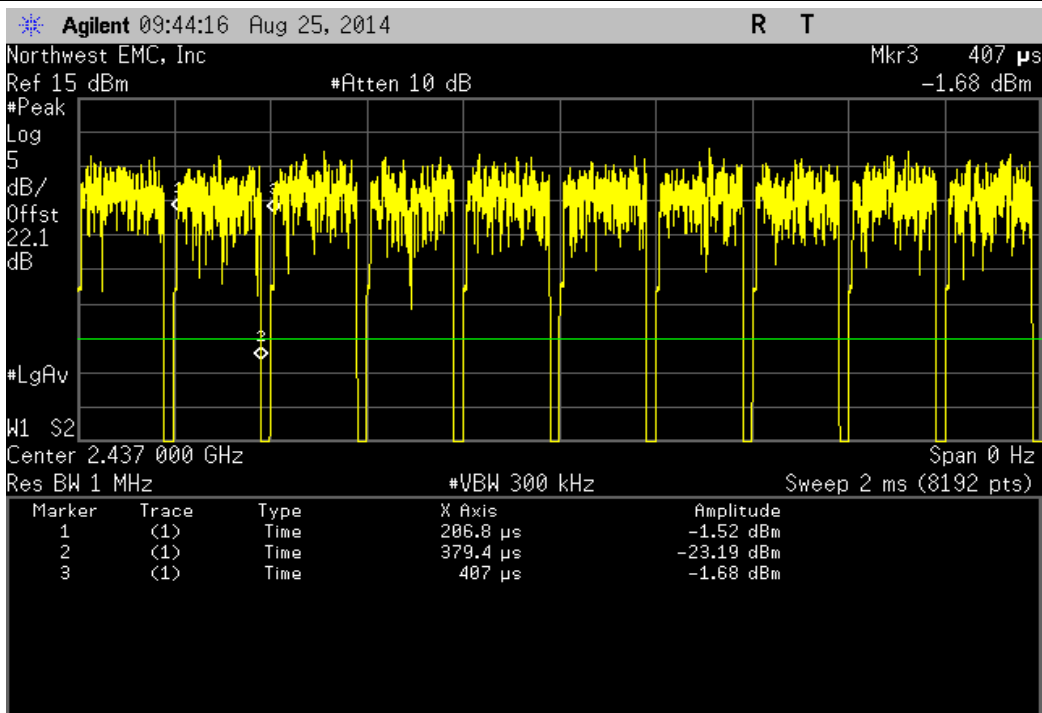
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
172.1 uS	200.2 uS	1	86	N/A	N/A	



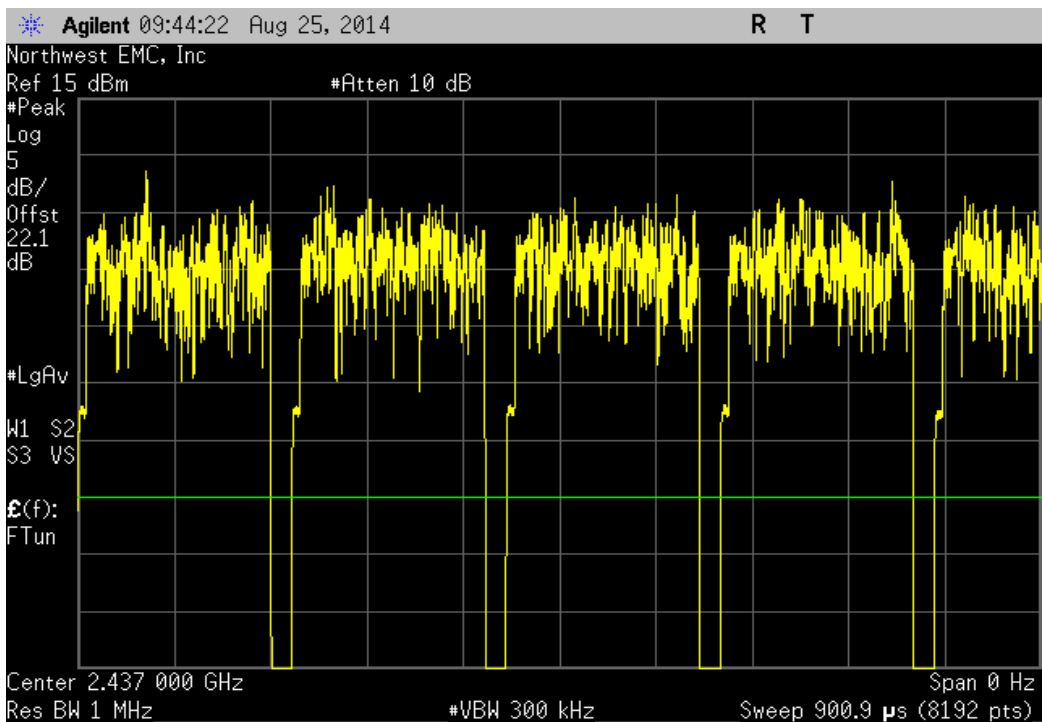
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



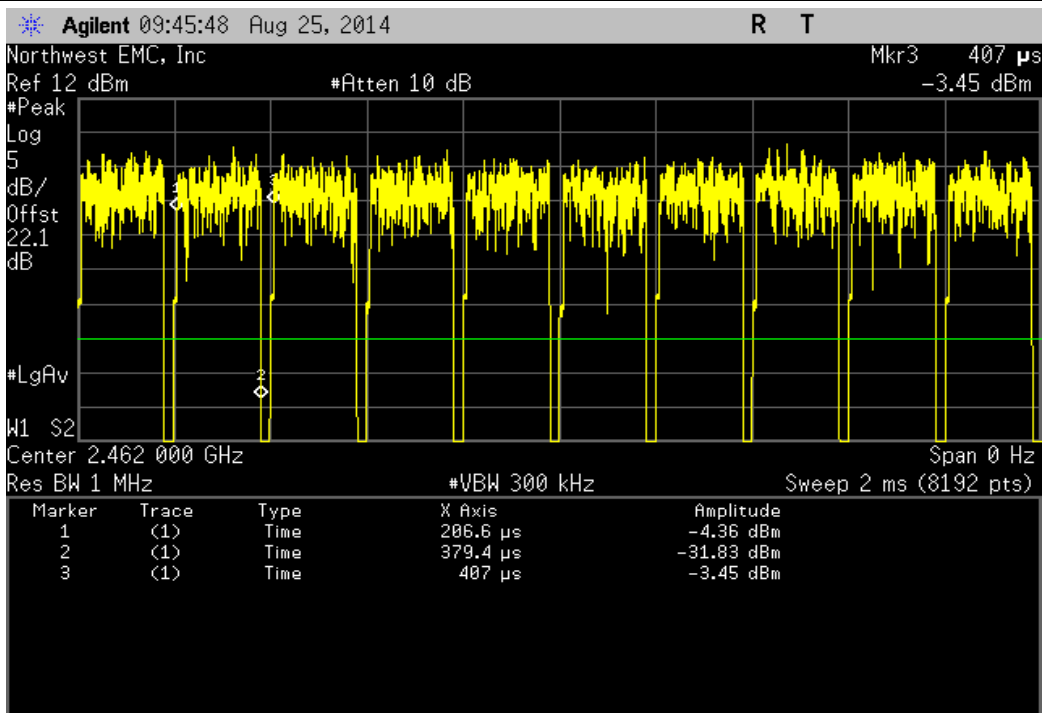
Antenna 1, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
172.6 uS	200.2 uS	1	86.2	N/A	N/A	



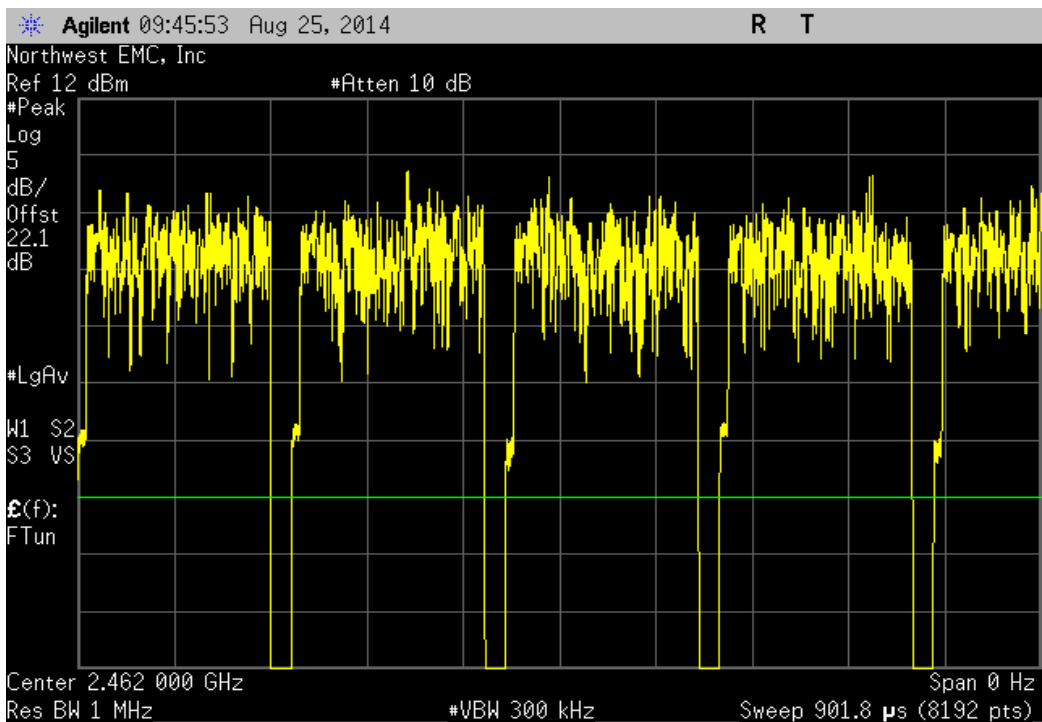
Antenna 1, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



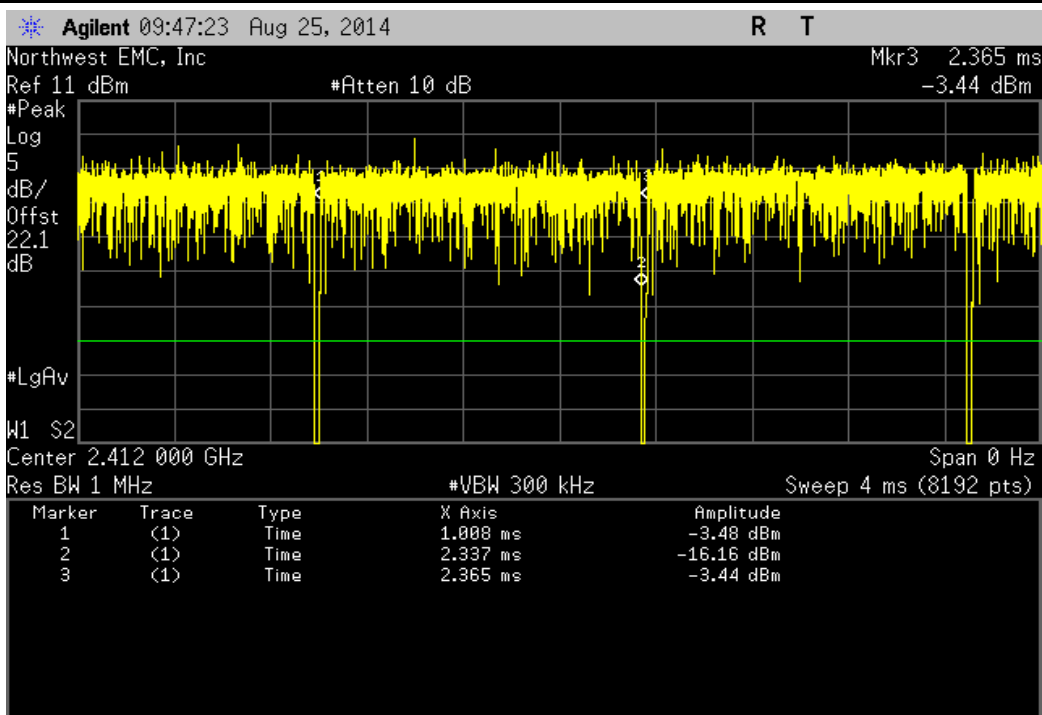
Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
172.8 uS	200.4 uS	1	86.2	N/A	N/A	



Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



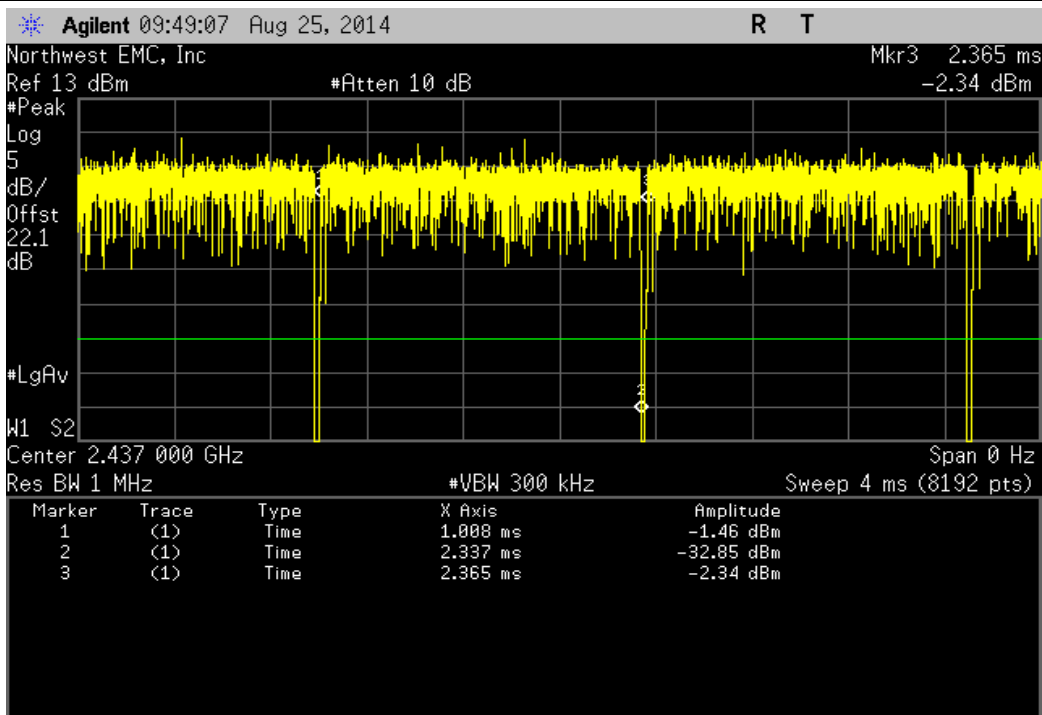
Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.328 mS	1.356 mS	1	98	N/A	N/A	



Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



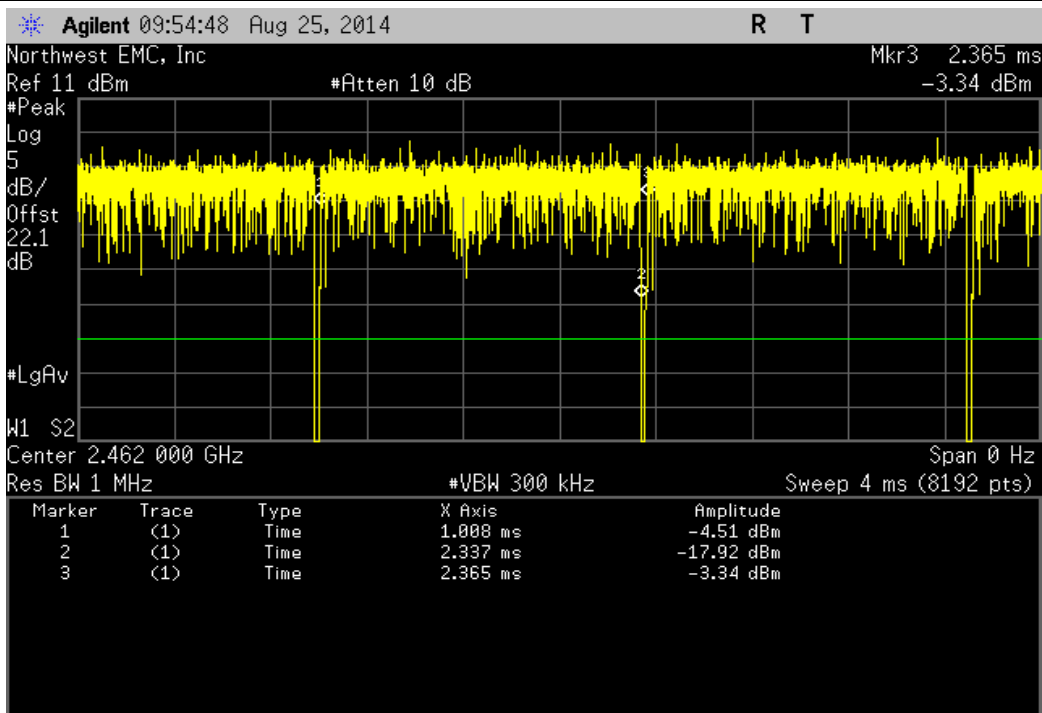
Antenna 1, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.329 mS	1.356 mS	1	98	N/A	N/A	



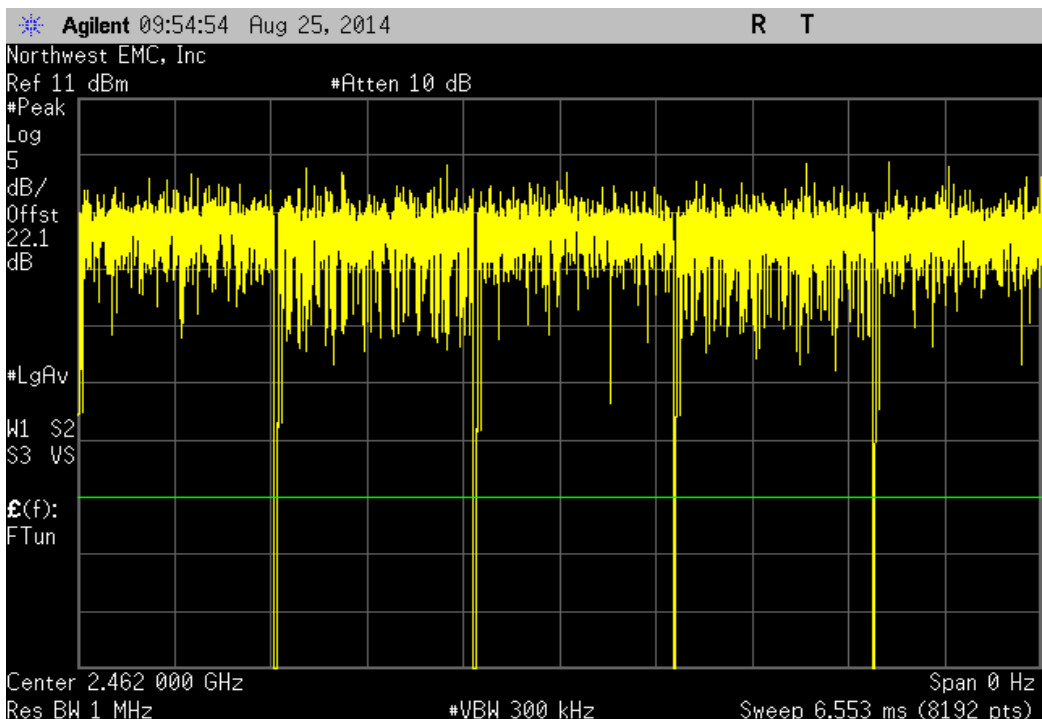
Antenna 1, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



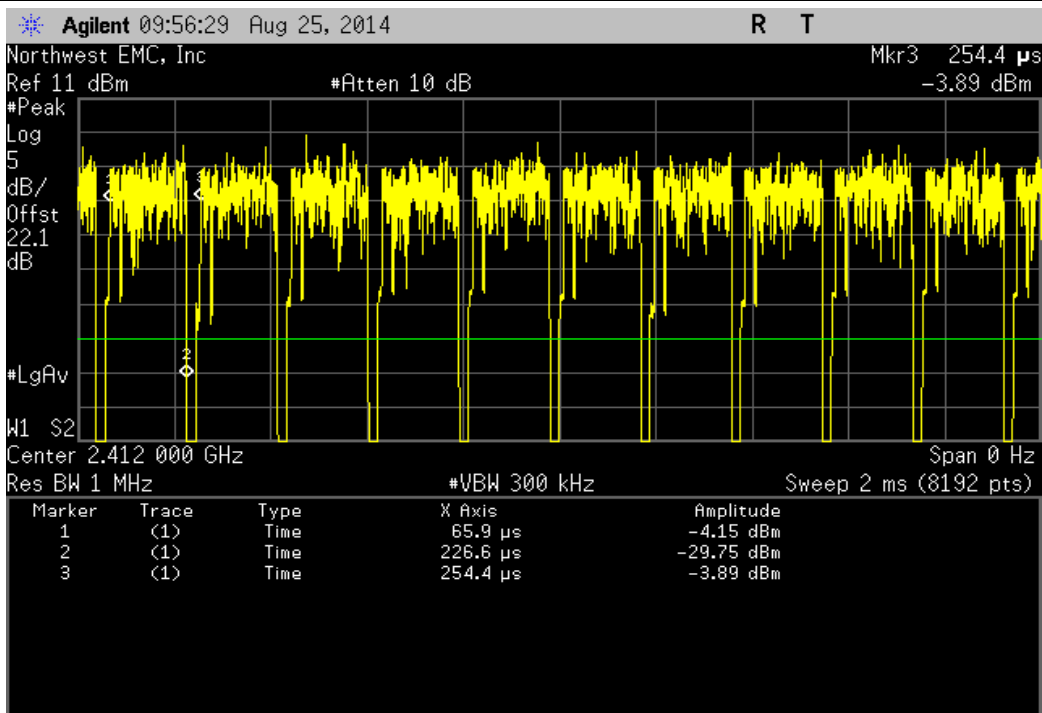
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
1.329 mS	1.357 mS	1	98	N/A	N/A	



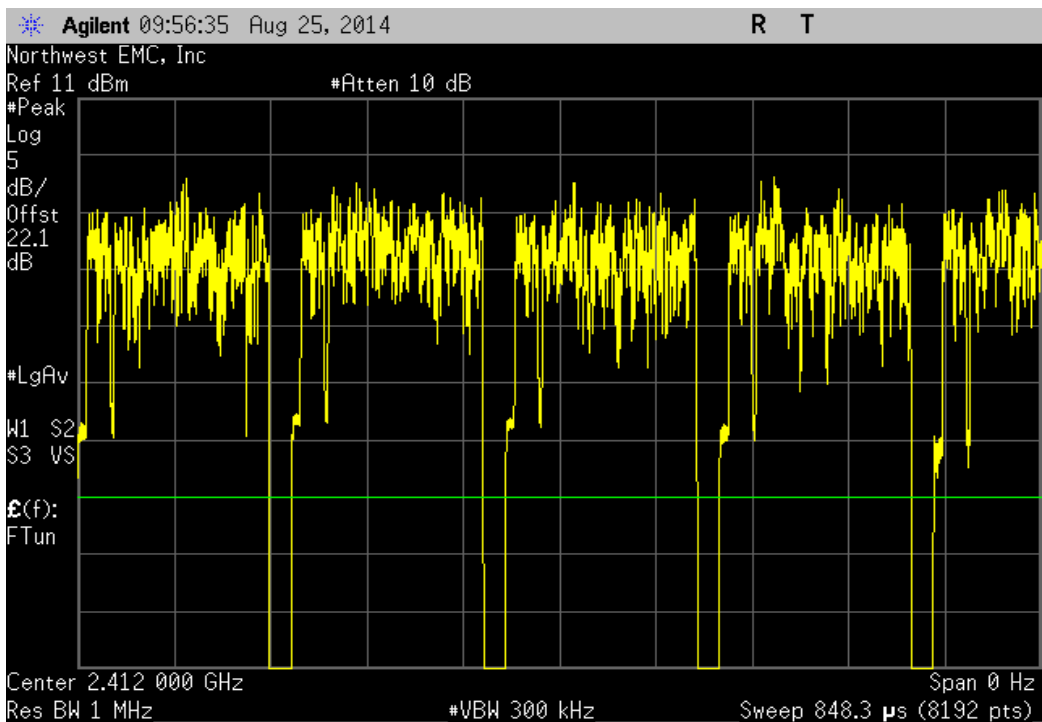
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



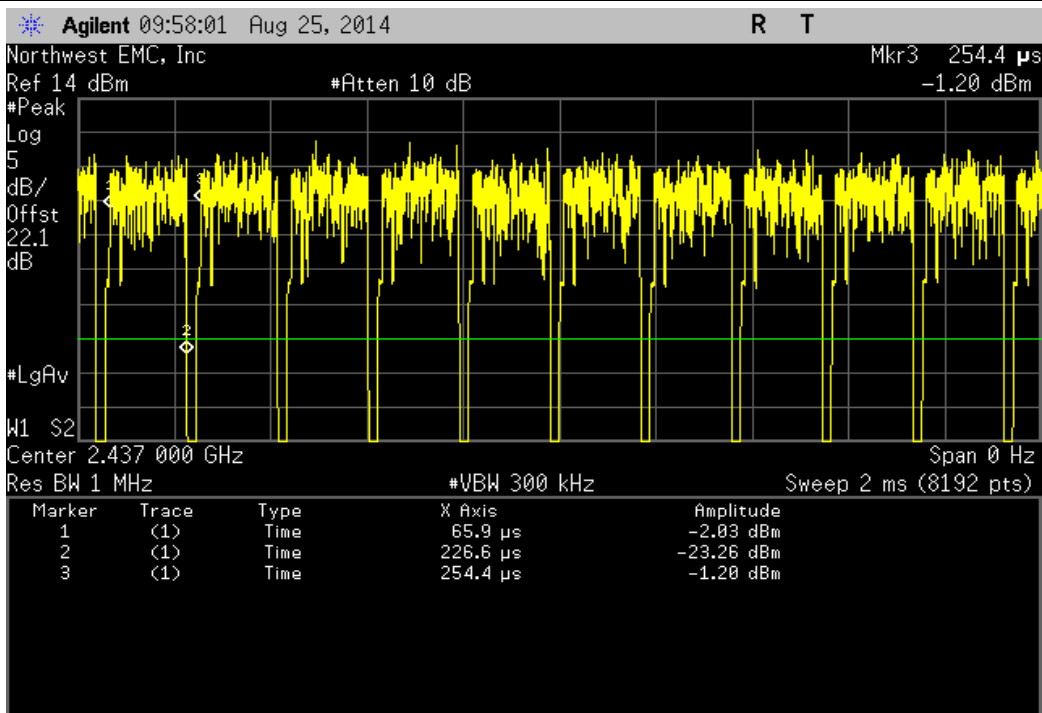
Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
160.7 uS	188.5 uS	1	85.3	N/A	N/A	



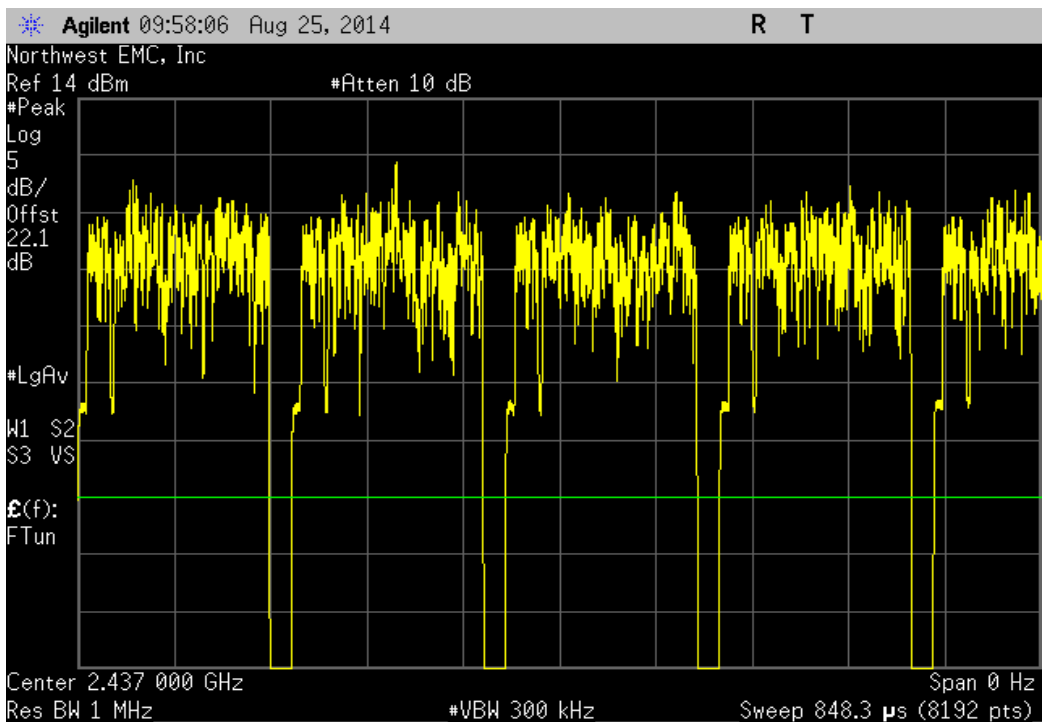
Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	



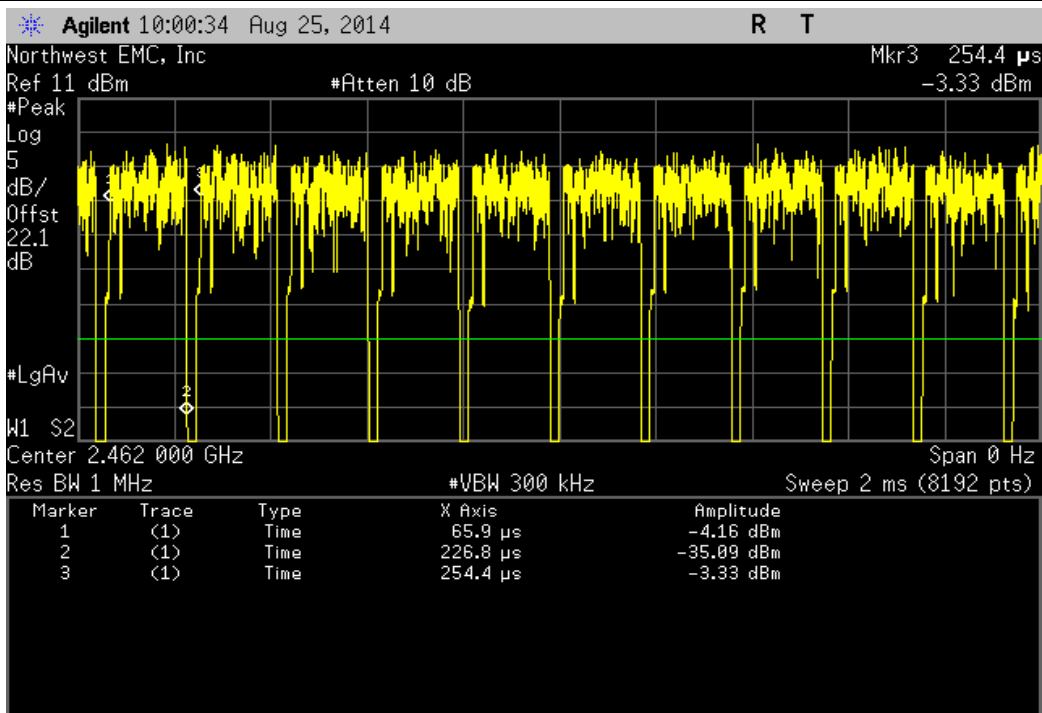
Antenna 1, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
160.7 uS	188.5 uS	1	85.3	N/A	N/A	



Antenna 1, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
160.9 uS	188.5 uS	1	85.4	N/A	N/A	



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

