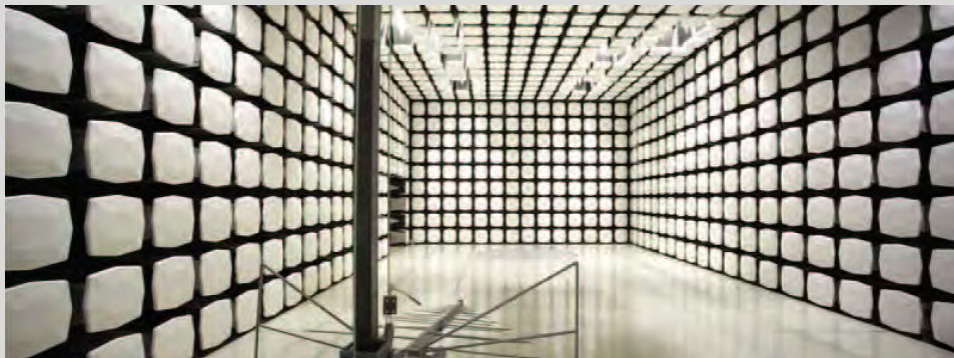




Intel Corporation
The EGG
FCC 15.247:2013
2.4GHz and 5.8GHz DTS Radio

Report #: INSD0001



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

Last Date of Test: November 06, 2013
Intel Corporation
Model: The EGG

Emissions

Test Description	Specification	Test Method	Pass/Fail
Output Power	FCC 15.247:2013	ANSI C63.10:2009	Pass
Power Spectral Density	FCC 15.247:2013	ANSI C63.10:2009	Pass
Occupied Bandwidth	FCC 15.247:2013	ANSI C63.10:2009	Pass
Spurious Conducted Emissions	FCC 15.247:2013	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2013	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.247:2013	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2013	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Kyle Holgate, Operations Manager



NVLAP Lab Code: 200630-0

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.

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. This Report may only be duplicated in its entirety. 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

KCC / 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.

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.

Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

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.

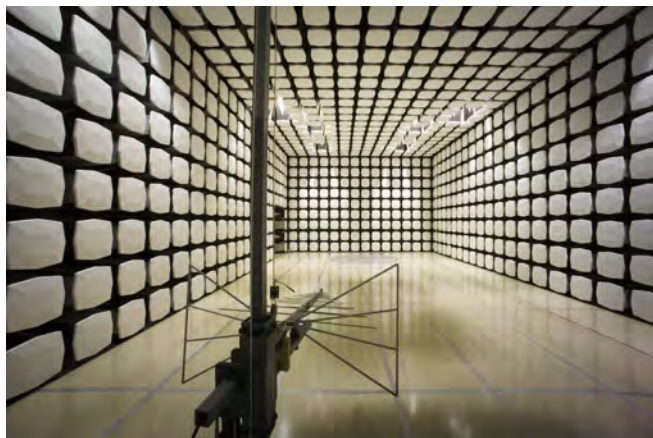
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is listed below. Our measurement 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)	3.80	-3.80
AC Powerline Conducted Emissions (dB)	2.94	-2.94



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	2834C-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:	Intel Corporation
Address:	2111 NE 25th Ave
City, State, Zip:	Hillsboro, OR 97124
Test Requested By:	Phil Auzas
Model:	The EGG
First Date of Test:	October 30, 2013
Last Date of Test:	November 06, 2013
Receipt Date of Samples:	October 28, 2013
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
802.11abgn SISO radio module with 1 stream and 1 antenna.
Testing Objective:
To demonstrate compliance under FCC 15.247 for operation in the 2.4 GHz and 5.8 GHz bands.

Configuration INSD0001- 1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
The EGG	Intel Corporation	None	99
AC/DC Power Adapter	Salcomp	S11A02	1310001174 60

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Remote Laptop	Hewlett Packard	Elitebook 8540W	CND03204HV

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB to USB3	Yes	1m	No	The EGG	AC/DC Power Adapter
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration INSD0001- 2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
The EGG	Intel Corporation	None	99

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Remote Laptop	Hewlett Packard	Elitebook 8540W	CND03204HV

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB to USB3	Yes	0.5m	No	The EGG	Remote Laptop
SMA Adaptor	Yes	0.3m	No	The EGG	SMA Cable
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	11/1/2013	AC Powerline Conducted 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	11/4/2013	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.
3	11/5/2013	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	11/5/2013	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.
5	11/5/2013	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	11/5/2013	Band Edge Compliance	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.
7	11/6/2013	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Duty Cycle

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 test software provided for operation in a fixed, single channel mode allows the EUT to operate continuously at $\geq 99\%$ Duty Cycle per KDB 558074 D01 DTS Section 6.0.

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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

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.

Method PK2 found in KDB 558074 DTS D01 Measurement Section 9.1.2 was used because the Emission Bandwidth was greater than the largest RBW on the analyzer.

The spectrum analyzer settings were as follows:

The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.

The RBW = 1 MHz, VBW = 3 MHz.

Peak detector mode

Power was integrated across "B", by using the channel power function of the analyzer.

Power Setting by Band:

2412MHz – 2462MHz, Power setting of 21000

5745MHz – 5825MHz, Power setting of 21000



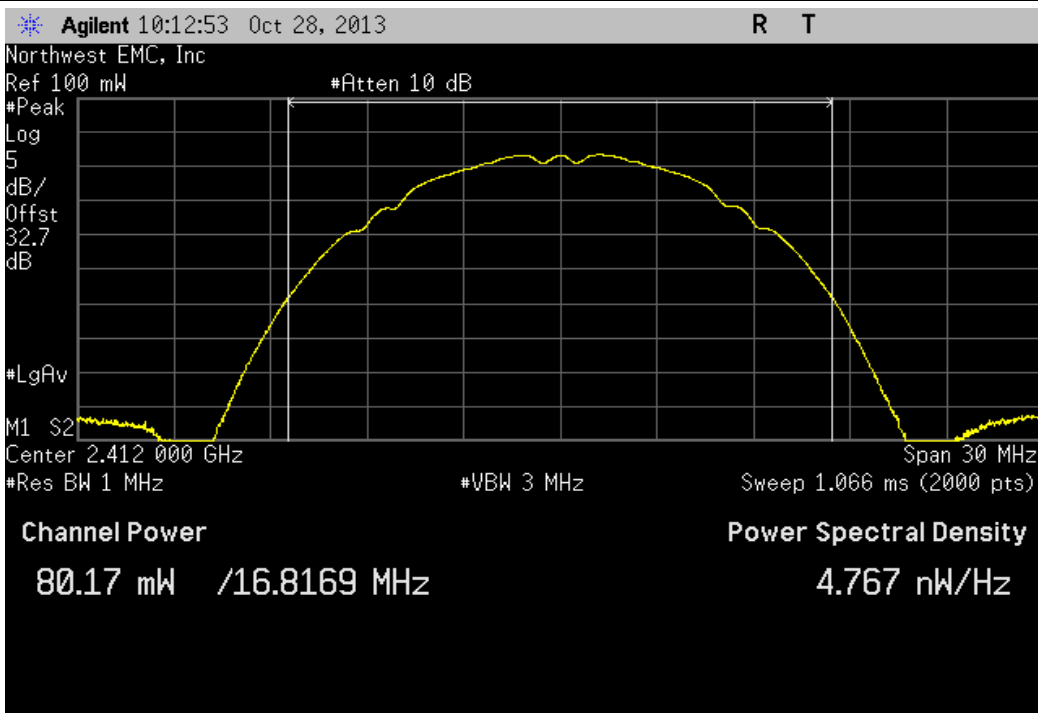
Output Power

XMit 2013.08.15
PsaTx 2013.07.11

EUT: The EGG		Work Order: INSD0001
Serial Number: 99		Date: 11/05/13
Customer: Intel Corporation		Temperature: 22.2°C
Attendees: Phil Auzas		Humidity: 42%
Project: None		Barometric Pres.: 1015
Tested by: Brandon Hobbs	Power: 4 VDC	Job Site: EV06
TEST SPECIFICATIONS		
FCC 15.247:2013		Test Method
		ANSI C63.10:2009
COMMENTS		
The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.		
DEVIATIONS FROM TEST STANDARD		
None		
Configuration #	2	Signature 
		Value Limit Result
2400 MHz - 2483.5 MHz Band		
802.11(b) 1 Mbps		
Low Channel 1, 2412 MHz		80.172 mW < 1 W Pass
Mid Channel 6, 2437 MHz		81.888 mW < 1 W Pass
High Channel 11, 2462 MHz		85.64 mW < 1 W Pass
802.11(b) 11 Mbps		
Low Channel 1, 2412 MHz		80.338 mW < 1 W Pass
Mid Channel 6, 2437 MHz		81.416 mW < 1 W Pass
High Channel 11, 2462 MHz		86.265 mW < 1 W Pass
802.11(g) 6 Mbps		
Low Channel 1, 2412 MHz		54.36 mW < 1 W Pass
Mid Channel 6, 2437 MHz		58.173 mW < 1 W Pass
High Channel 11, 2462 MHz		58.337 mW < 1 W Pass
802.11(g) 36 Mbps		
Low Channel 1, 2412 MHz		53.028 mW < 1 W Pass
Mid Channel 6, 2437 MHz		60.798 mW < 1 W Pass
High Channel 11, 2462 MHz		62.314 mW < 1 W Pass
802.11(g) 54 Mbps		
Low Channel 1, 2412 MHz		50.608 mW < 1 W Pass
Mid Channel 6, 2437 MHz		60.379 mW < 1 W Pass
High Channel 11, 2462 MHz		61.435 mW < 1 W Pass
802.11(n) MCS0		
Low Channel 1, 2412 MHz		55.566 mW < 1 W Pass
Mid Channel 6, 2437 MHz		60.988 mW < 1 W Pass
High Channel 11, 2462 MHz		62.84 mW < 1 W Pass
802.11(n) MCS7		
Low Channel 1, 2412 MHz		55.649 mW < 1 W Pass
Mid Channel 6, 2437 MHz		59.163 mW < 1 W Pass
High Channel 11, 2462 MHz		60.235 mW < 1 W Pass
5725 MHz - 5850 MHz Band		
802.11(a) 6 Mbps		
Low Channel 149, 5745 MHz		89.116 mW < 1 W Pass
Mid Channel 157, 5785 MHz		65.655 mW < 1 W Pass
High Channel 165, 5825 MHz		65.626 mW < 1 W Pass
802.11(a) 36 Mbps		
Low Channel 149, 5745 MHz		90.806 mW < 1 W Pass
Mid Channel 157, 5785 MHz		76.453 mW < 1 W Pass
High Channel 165, 5825 MHz		60.178 mW < 1 W Pass
802.11(a) 54 Mbps		
Low Channel 149, 5745 MHz		90.6 mW < 1 W Pass
Mid Channel 157, 5785 MHz		77.368 mW < 1 W Pass
High Channel 165, 5825 MHz		77.388 mW < 1 W Pass
802.11(n) MCS0 - UNII		
Low Channel 149, 5745 MHz		90.055 mW < 1 W Pass
Mid Channel 157, 5785 MHz		78.882 mW < 1 W Pass
High Channel 165, 5825 MHz		65.371 mW < 1 W Pass
802.11(n) MCS7 - UNII		
Low Channel 149, 5745 MHz		91.565 mW < 1 W Pass
Mid Channel 157, 5785 MHz		76.128 mW < 1 W Pass
High Channel 165, 5825 MHz		69.337 mW < 1 W Pass

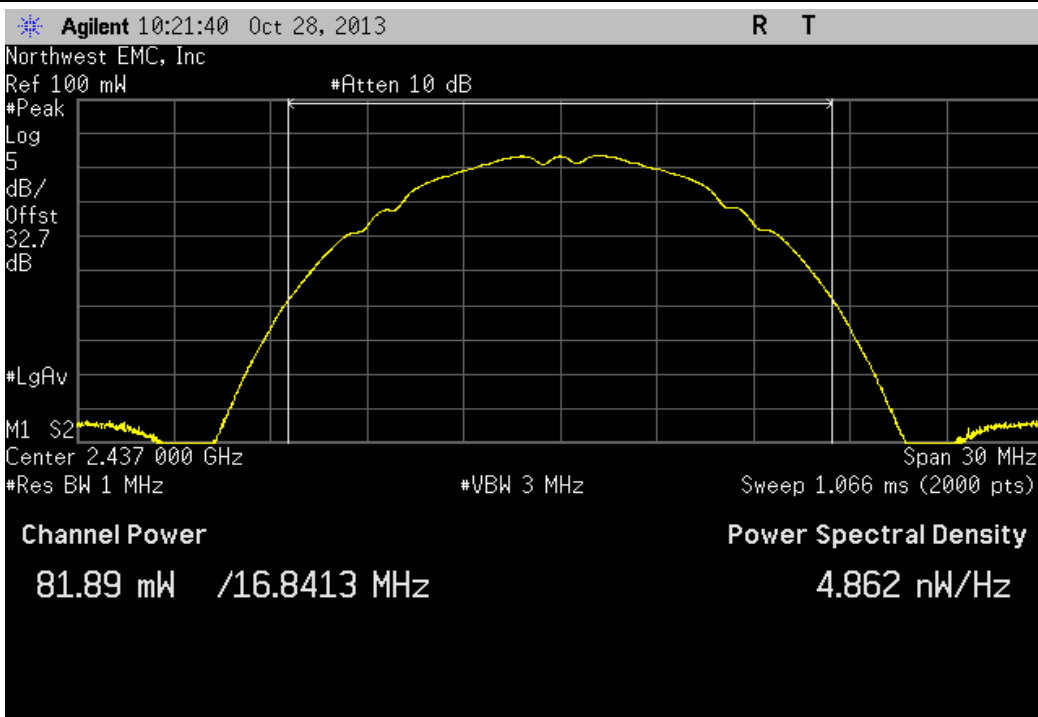
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
80.172 mW	< 1 W	Pass

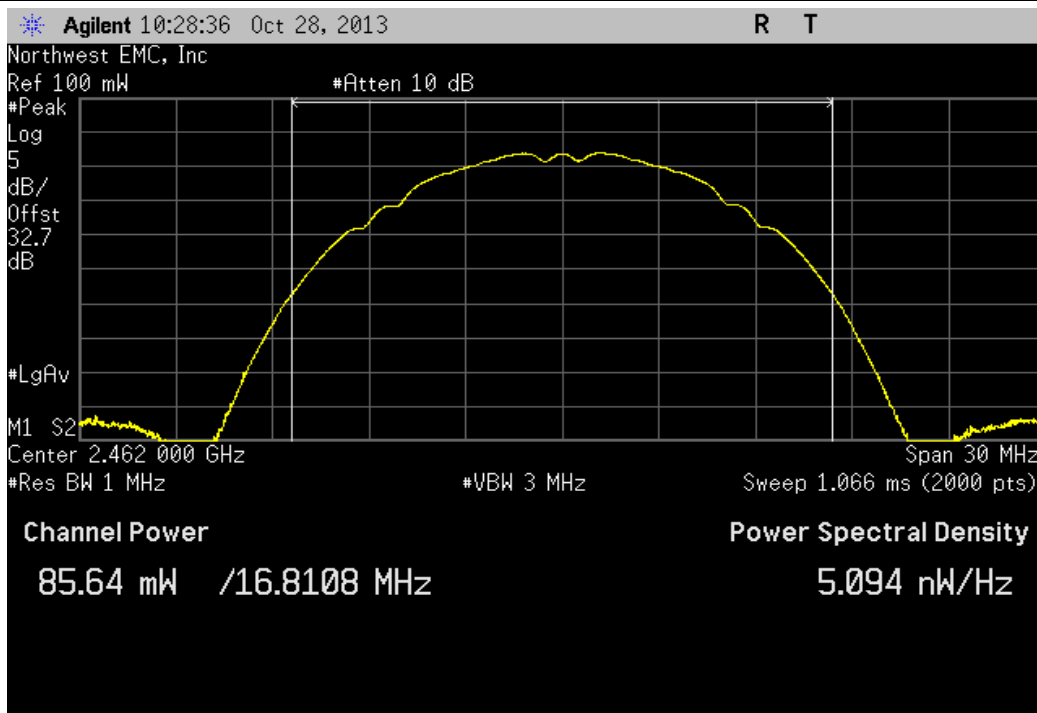


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

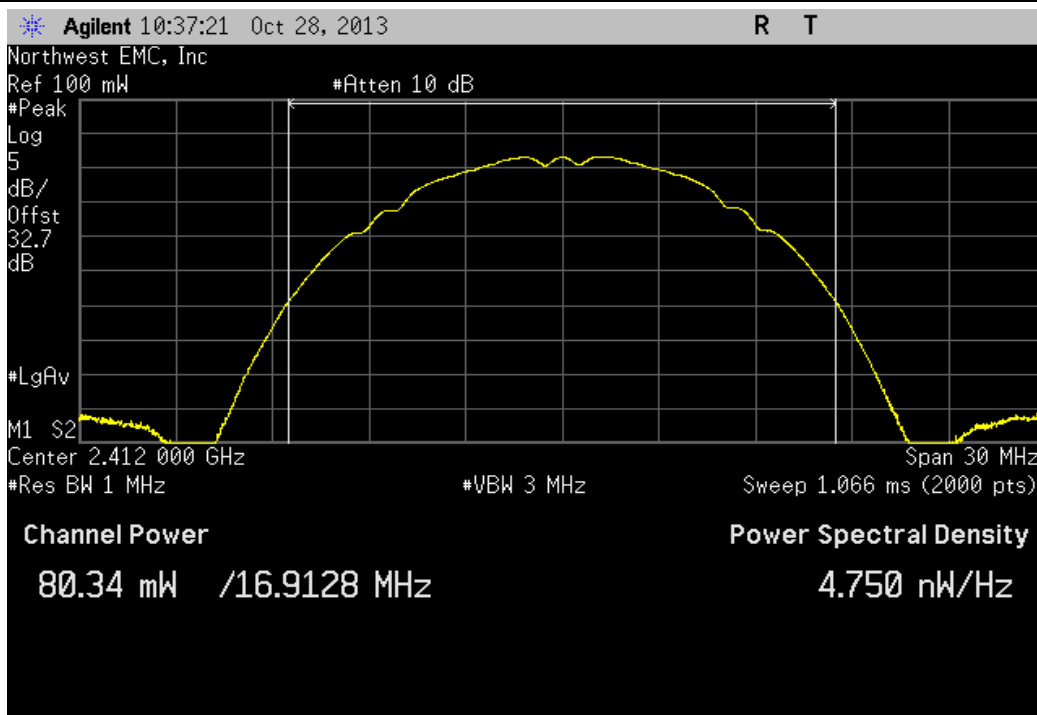
Value	Limit	Result
81.888 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz			
	Value	Limit	Result
	85.64 mW	< 1 W	Pass

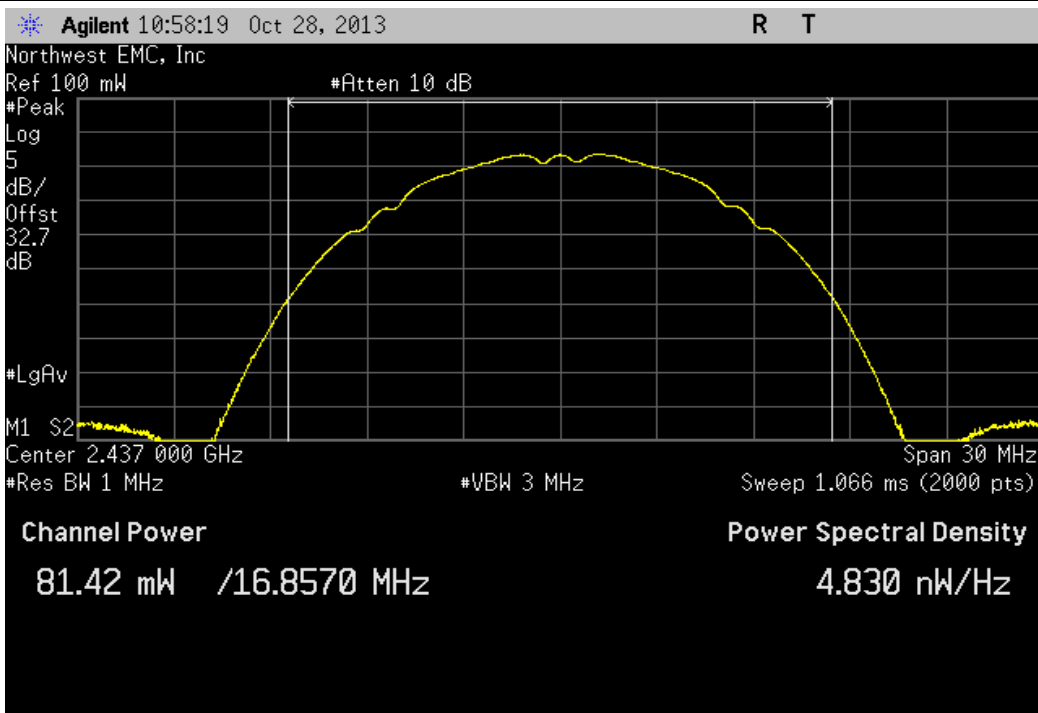


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz			
	Value	Limit	Result
	80.338 mW	< 1 W	Pass



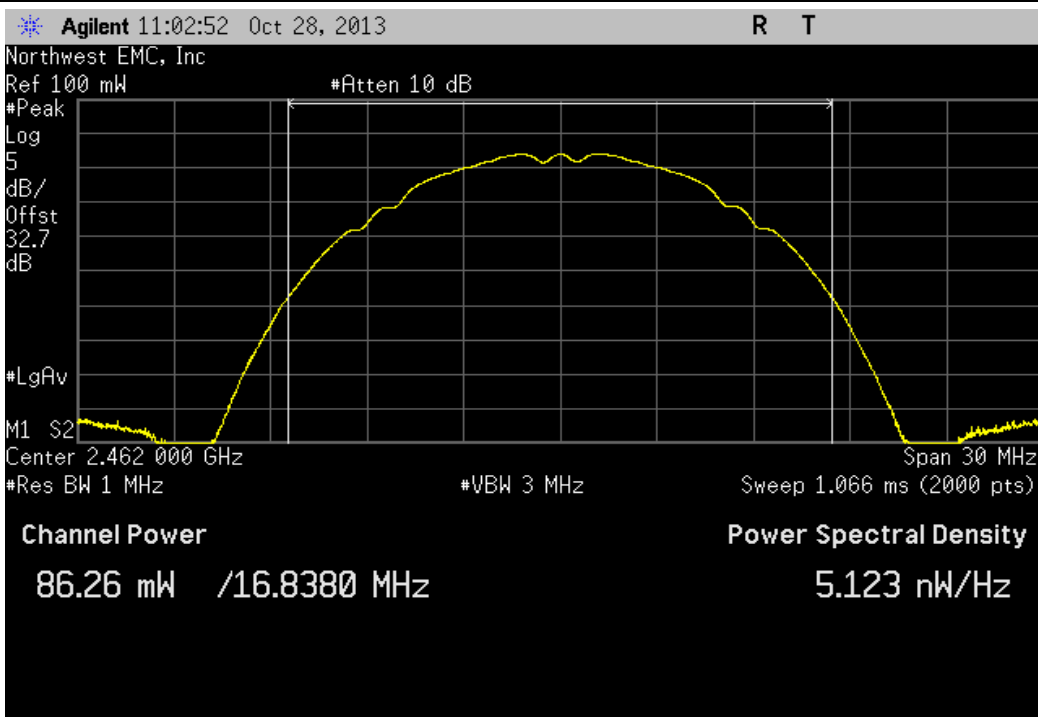
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
81.416 mW	< 1 W	Pass



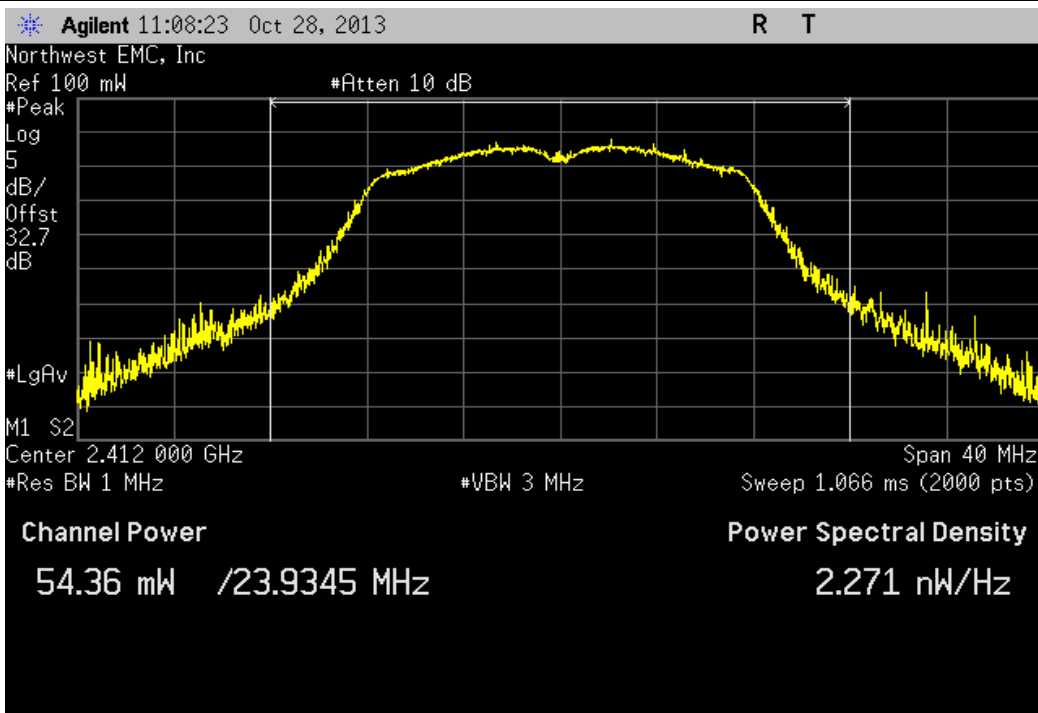
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
86.265 mW	< 1 W	Pass



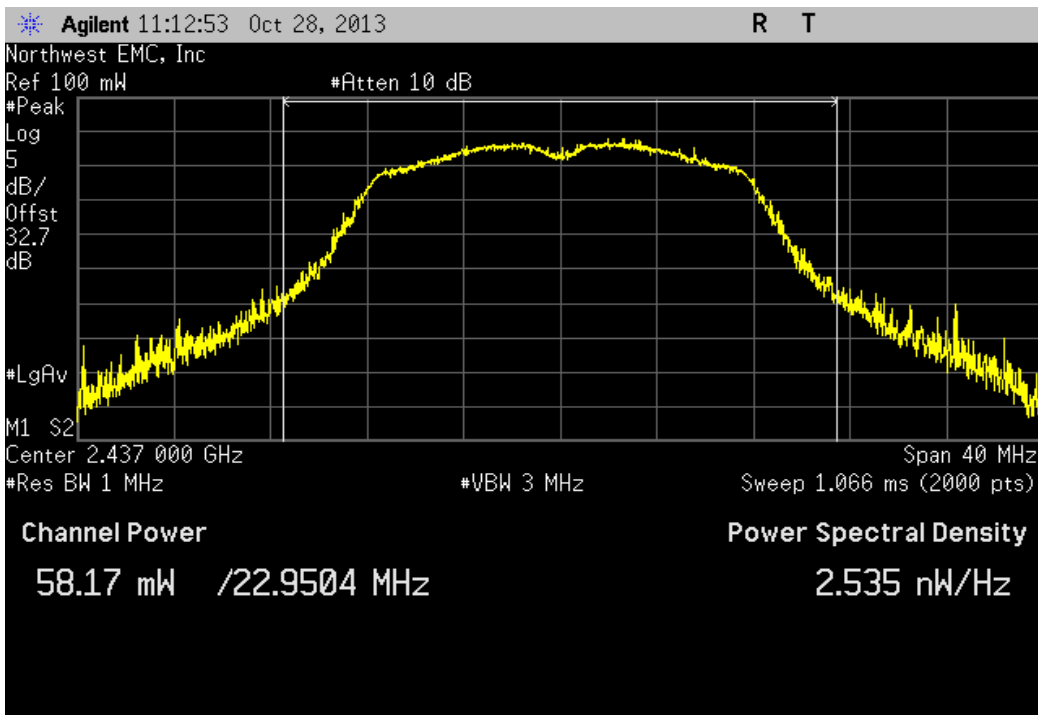
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
54.36 mW	< 1 W	Pass

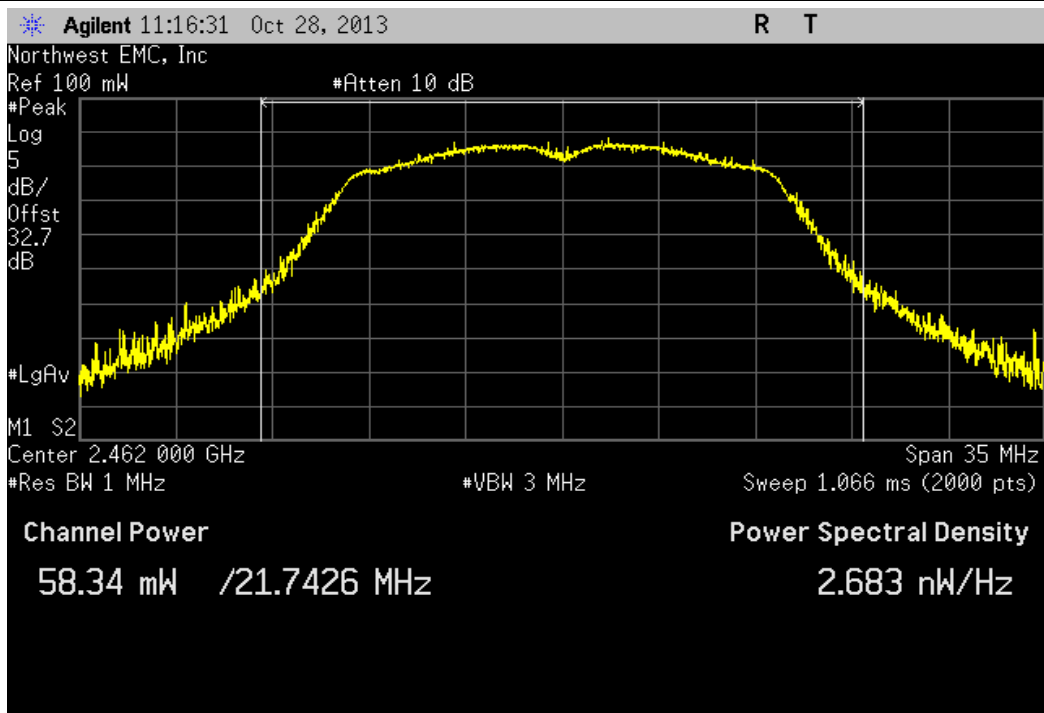


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

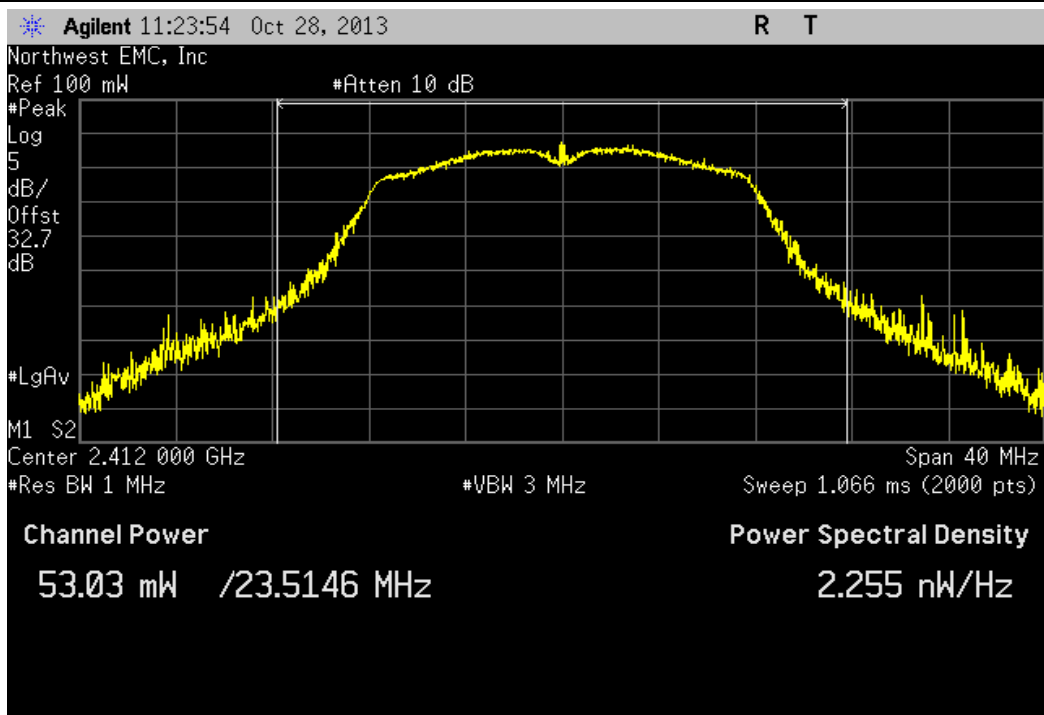
Value	Limit	Result
58.173 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz			
	Value	Limit	Result
	58.337 mW	< 1 W	Pass

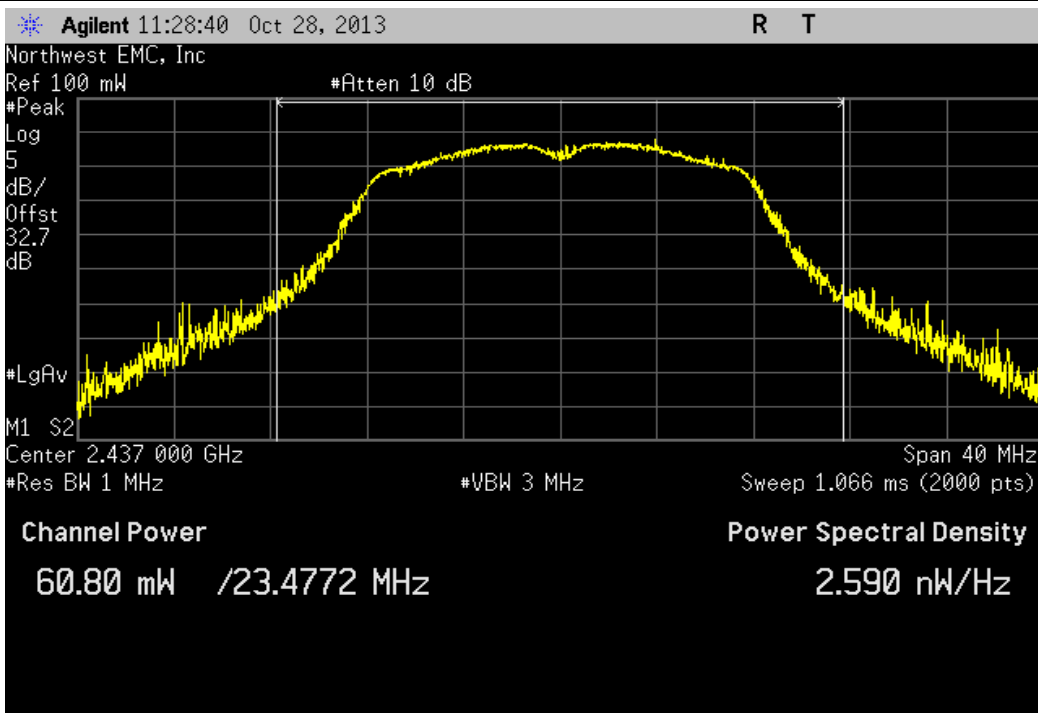


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz			
	Value	Limit	Result
	53.028 mW	< 1 W	Pass



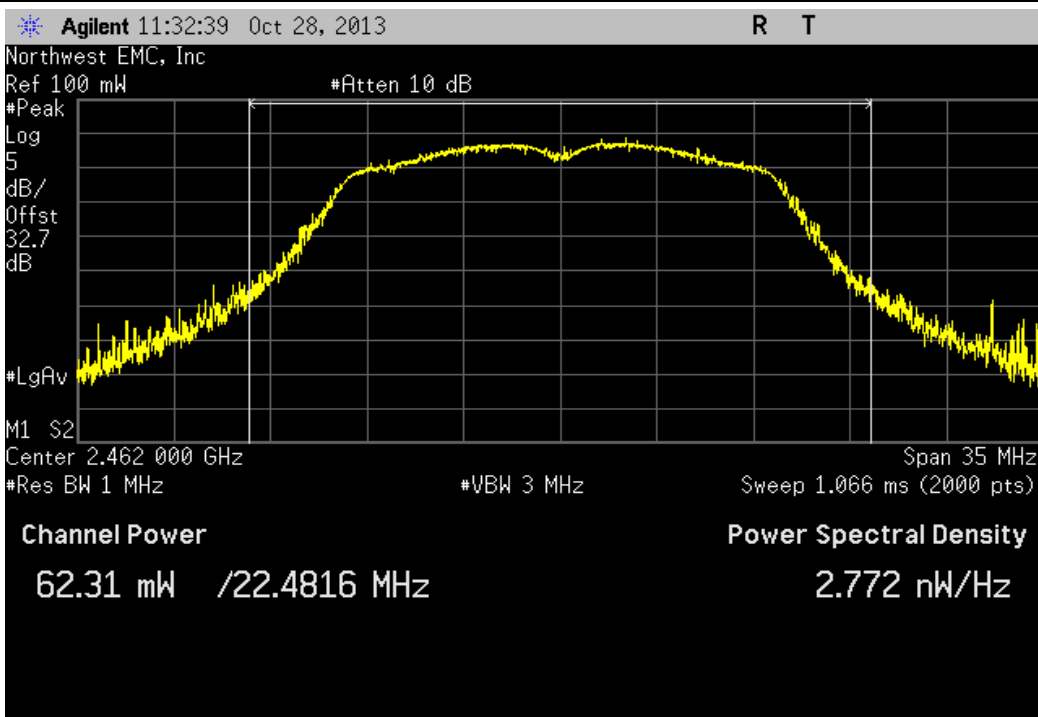
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
60.798 mW	< 1 W	Pass



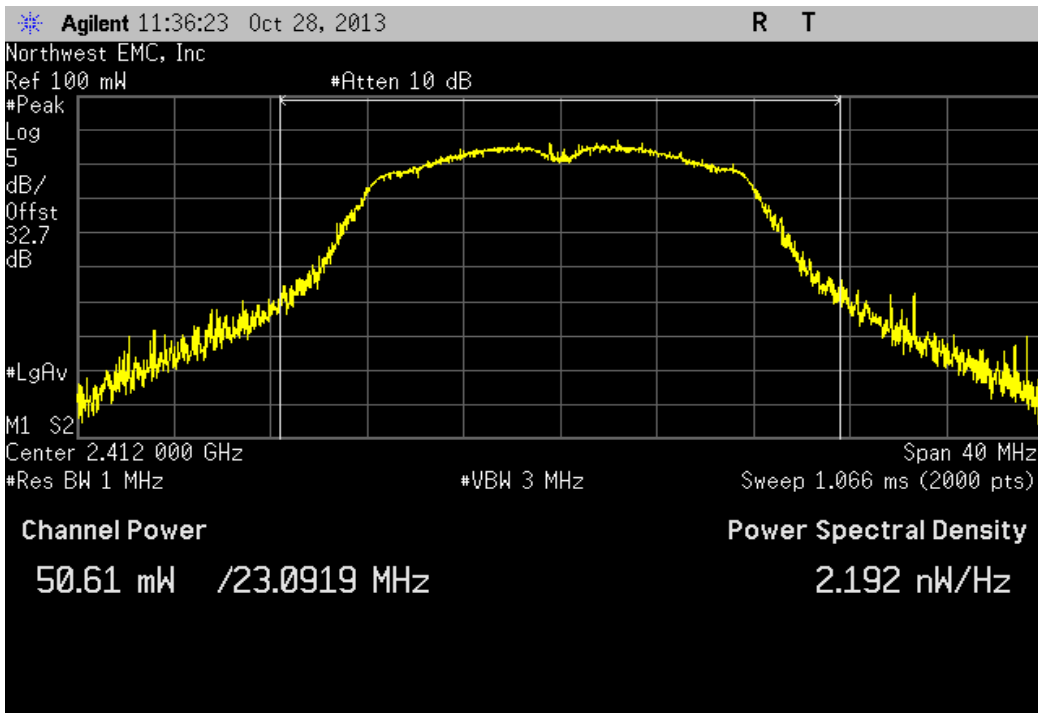
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
62.314 mW	< 1 W	Pass



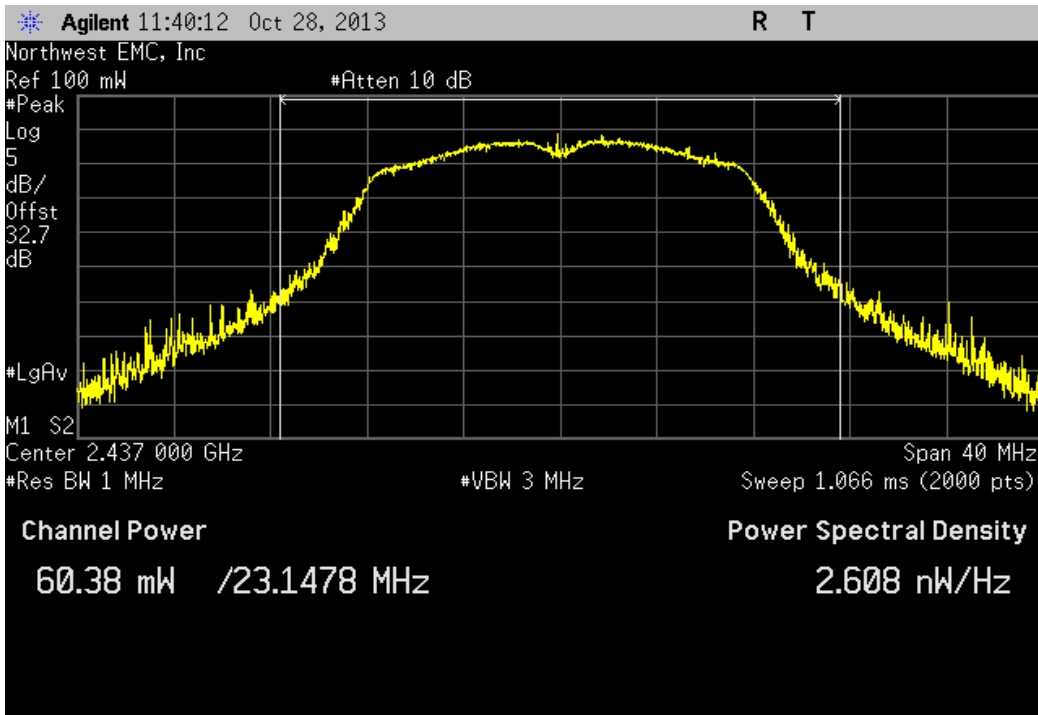
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
50.608 mW	< 1 W	Pass



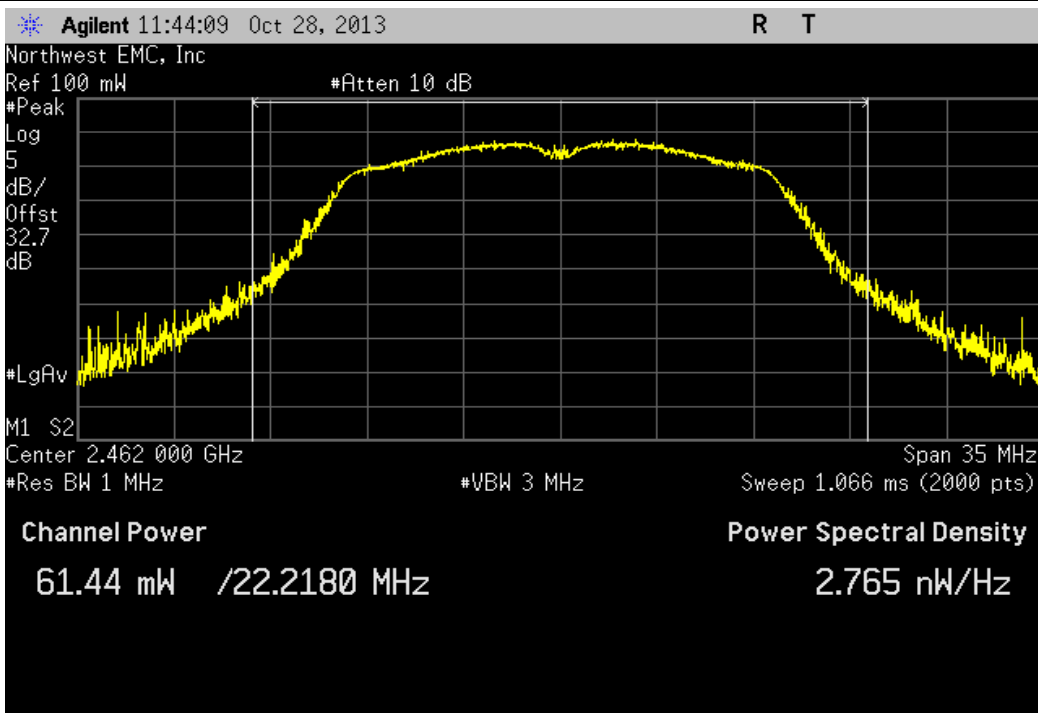
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
60.379 mW	< 1 W	Pass



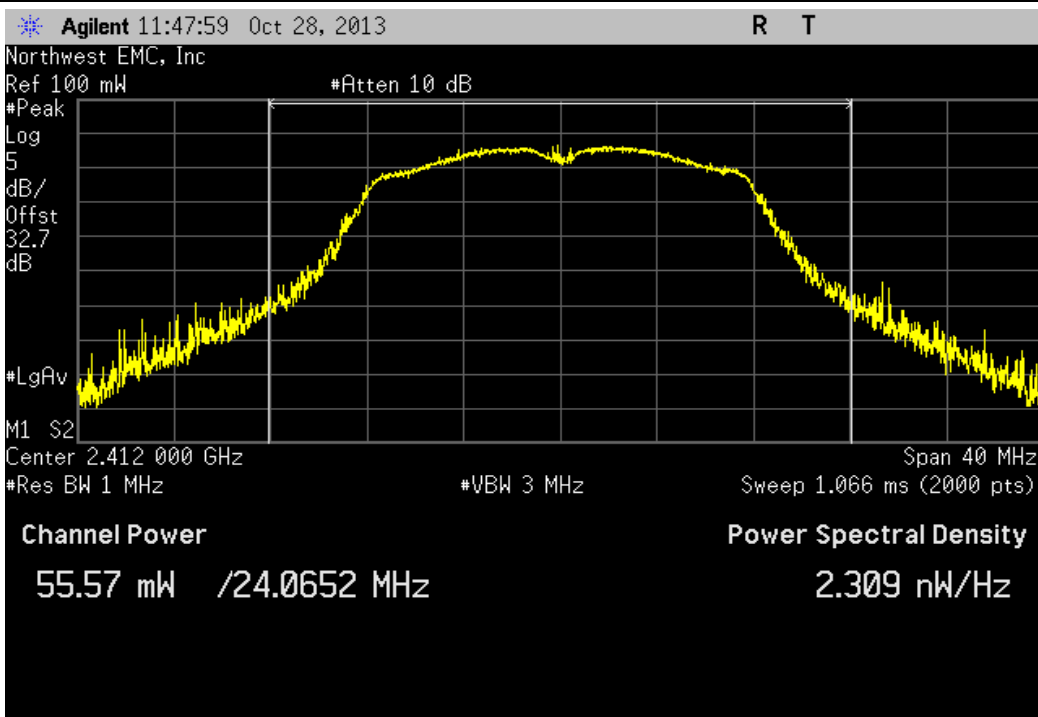
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
61.435 mW	< 1 W	Pass



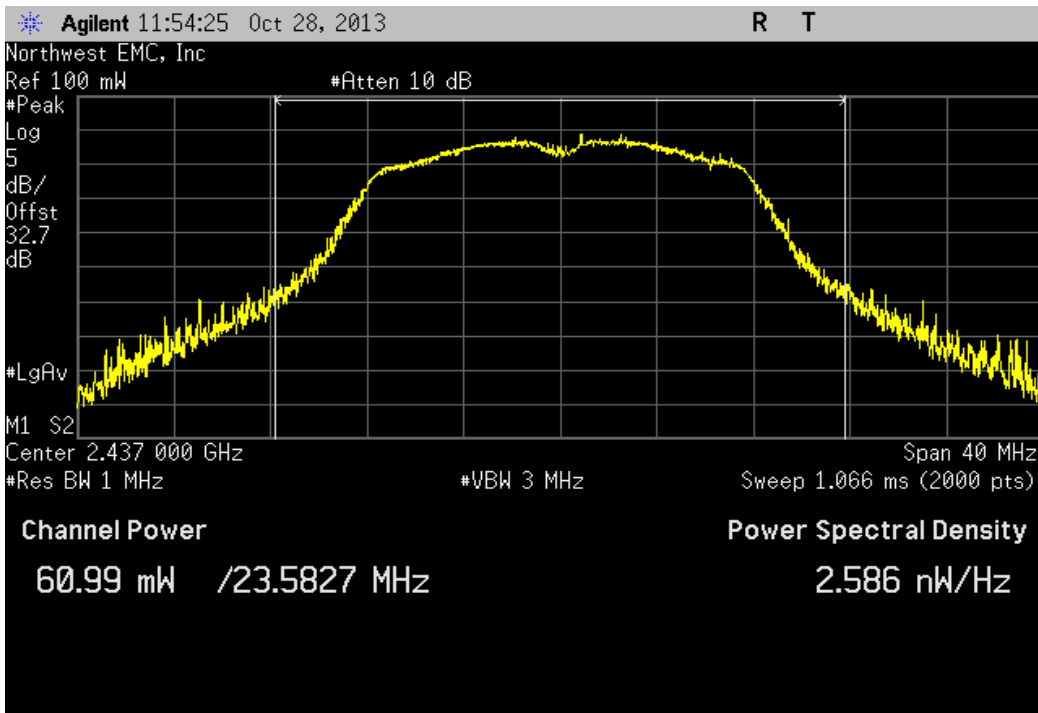
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value	Limit	Result
55.566 mW	< 1 W	Pass



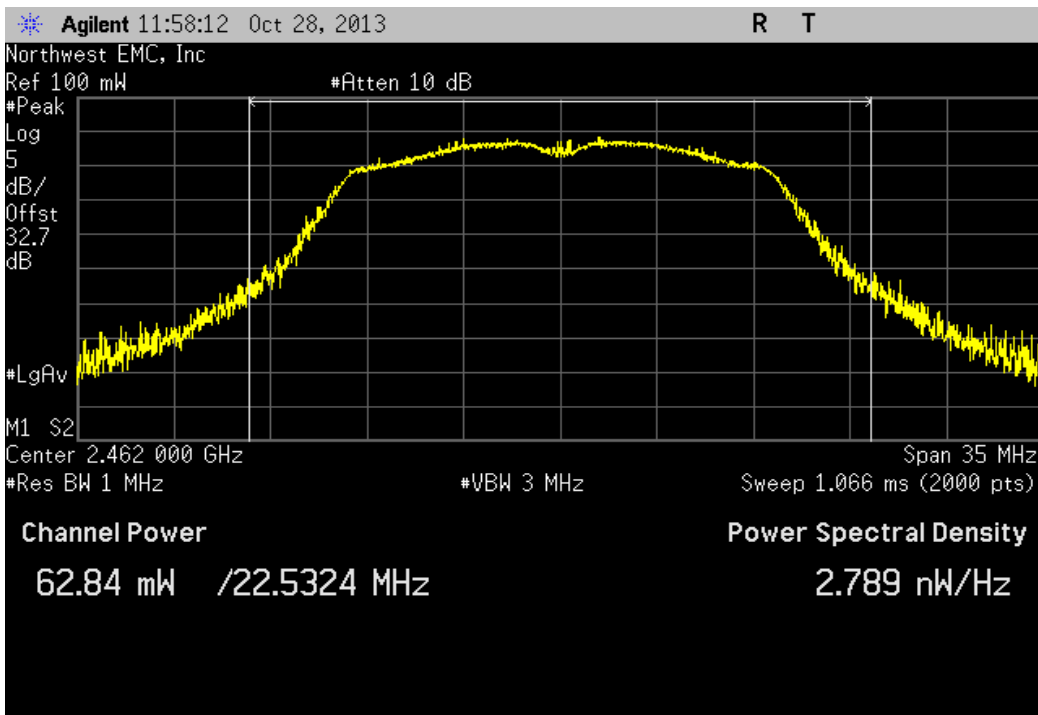
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

Value	Limit	Result
60.988 mW	< 1 W	Pass



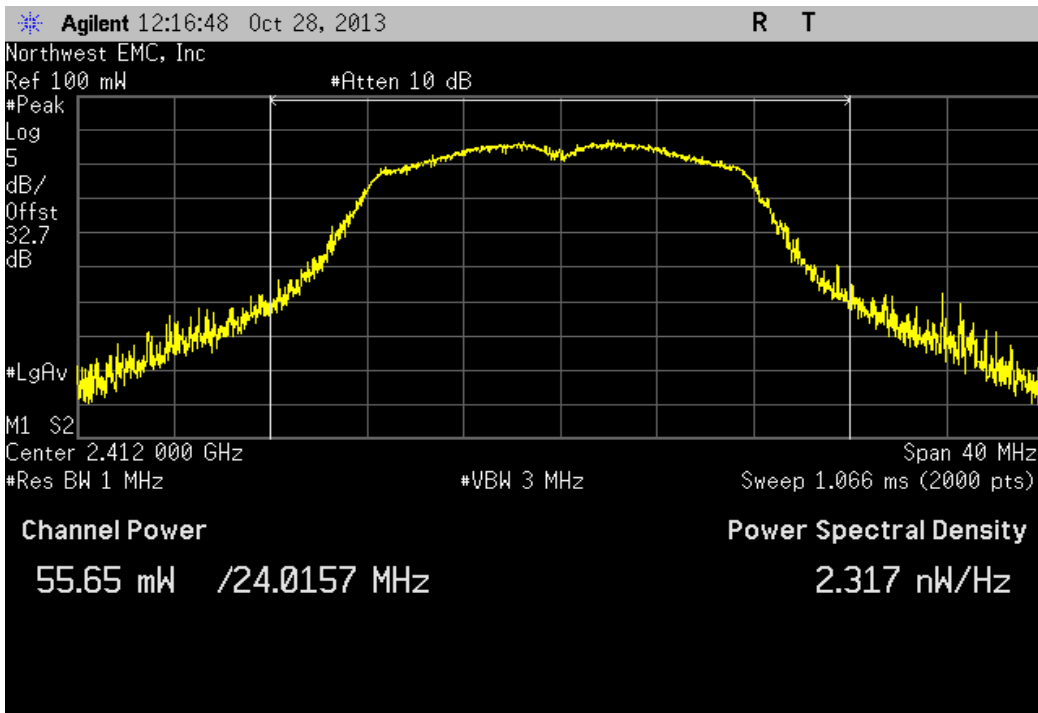
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value	Limit	Result
62.84 mW	< 1 W	Pass



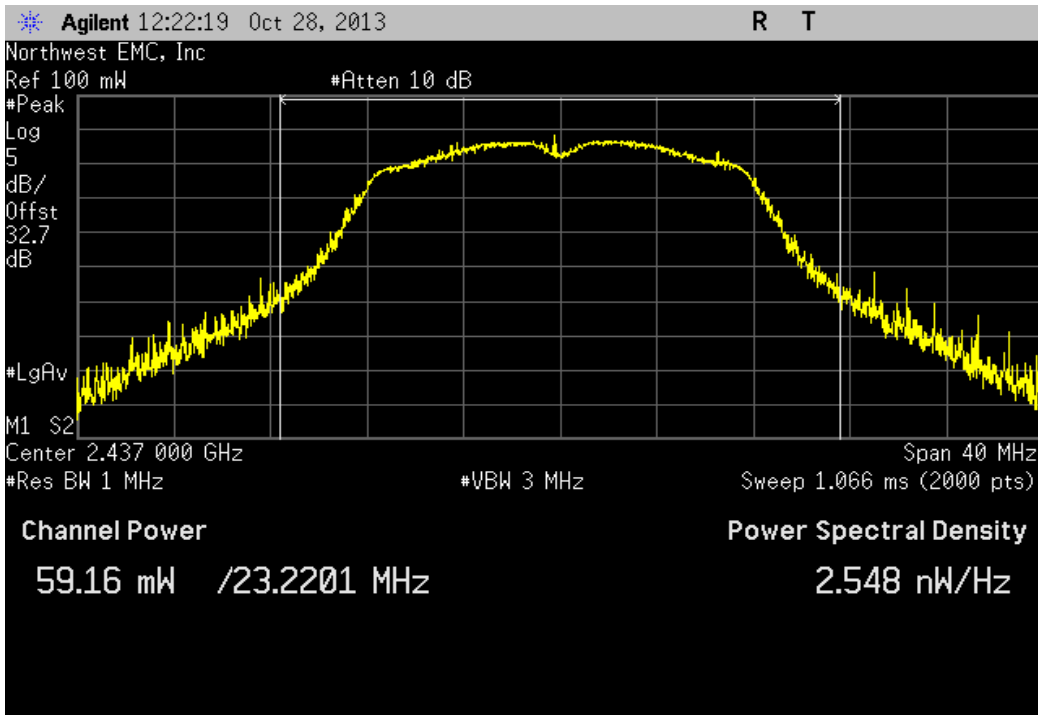
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit	Result
55.649 mW	< 1 W	Pass



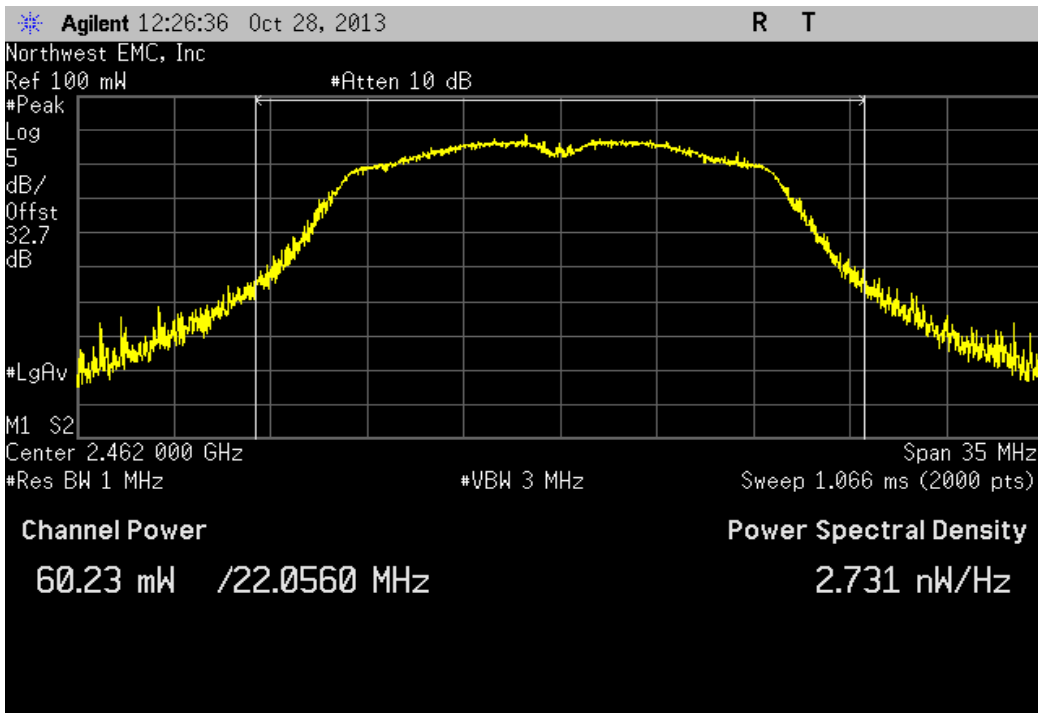
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

Value	Limit	Result
59.163 mW	< 1 W	Pass



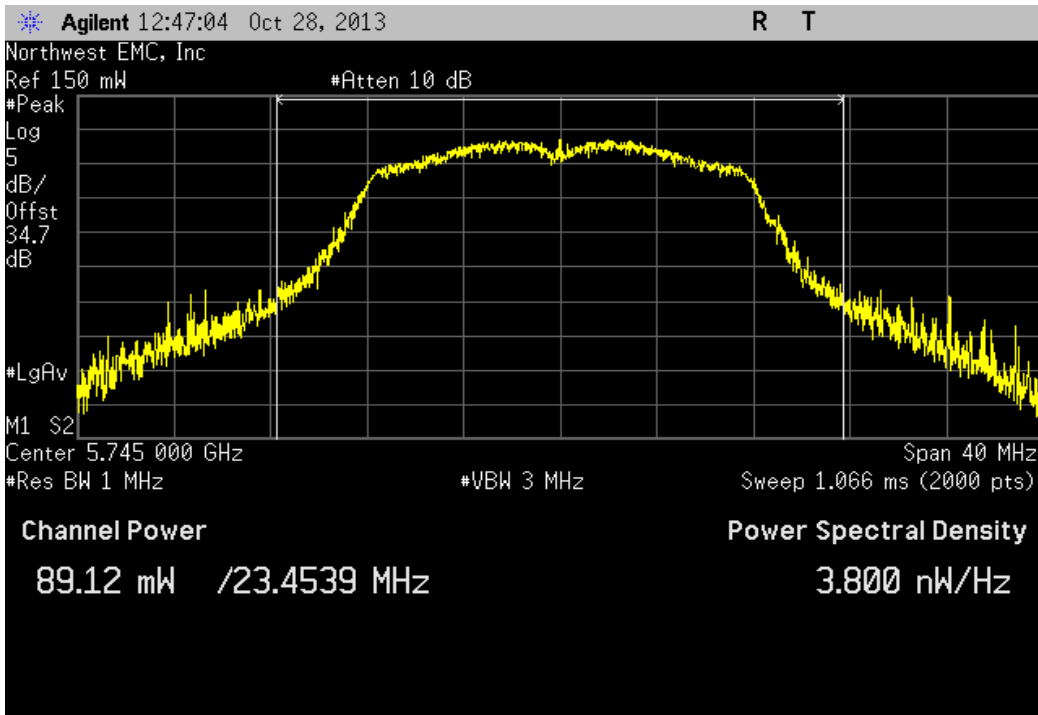
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit	Result
60.235 mW	< 1 W	Pass



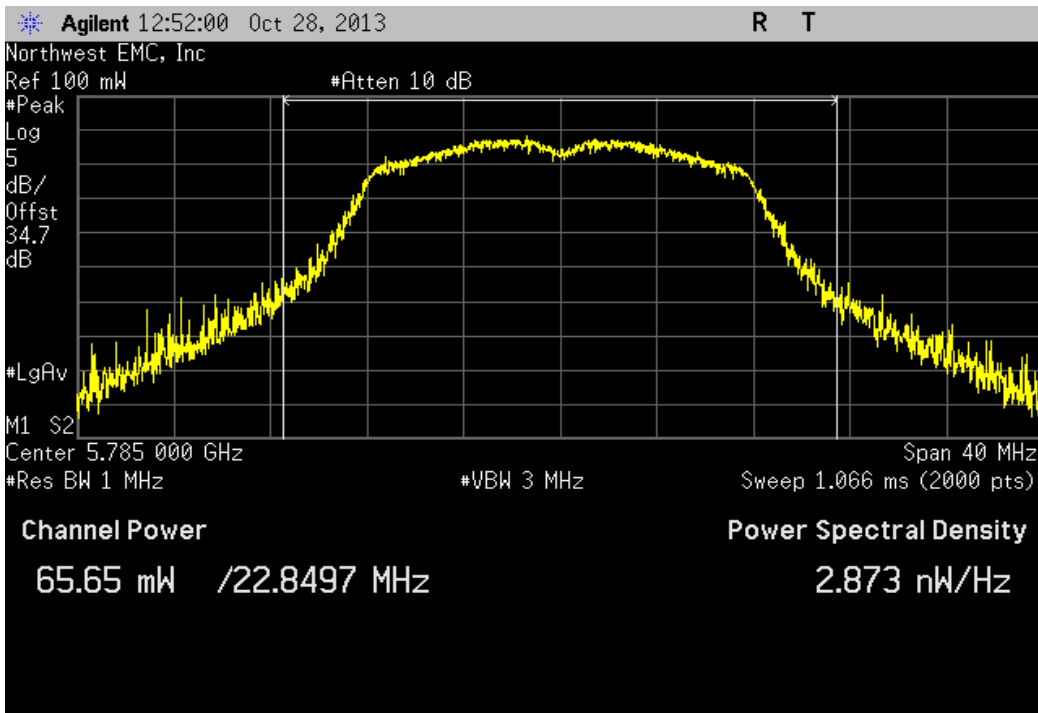
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
89.116 mW	< 1 W	Pass



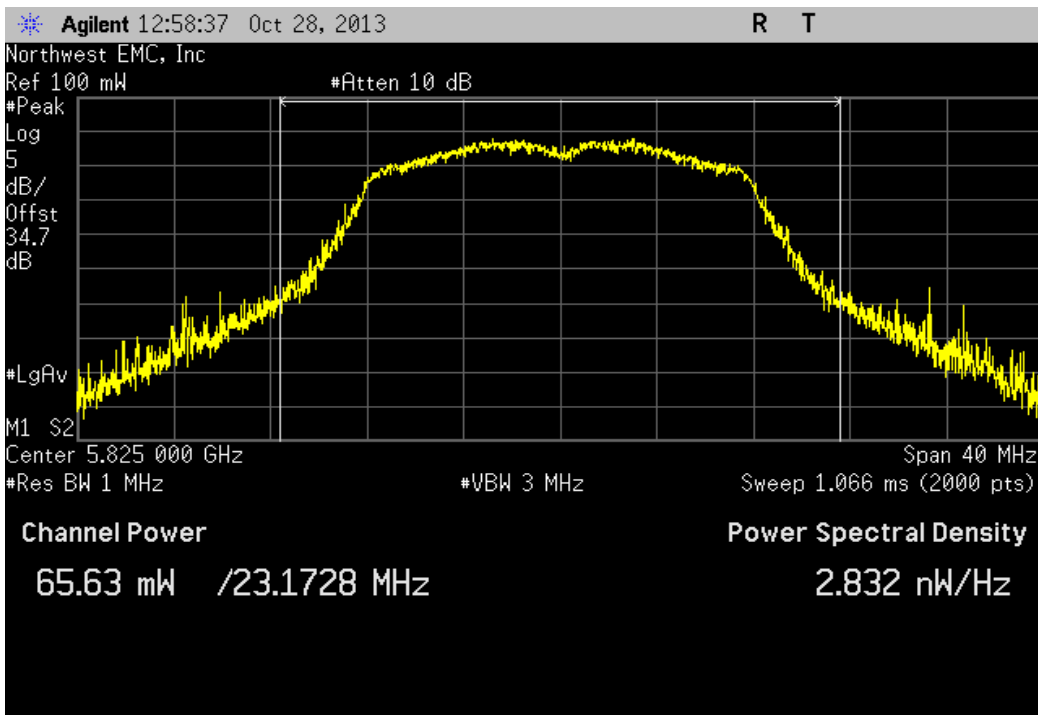
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
65.655 mW	< 1 W	Pass



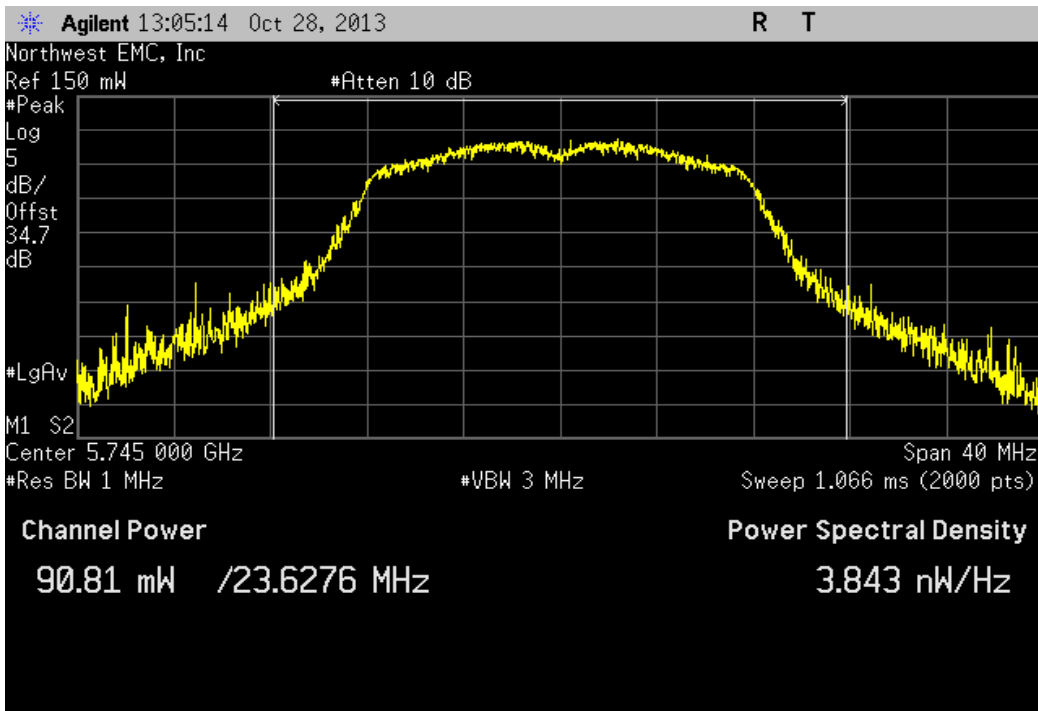
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
65.626 mW	< 1 W	Pass



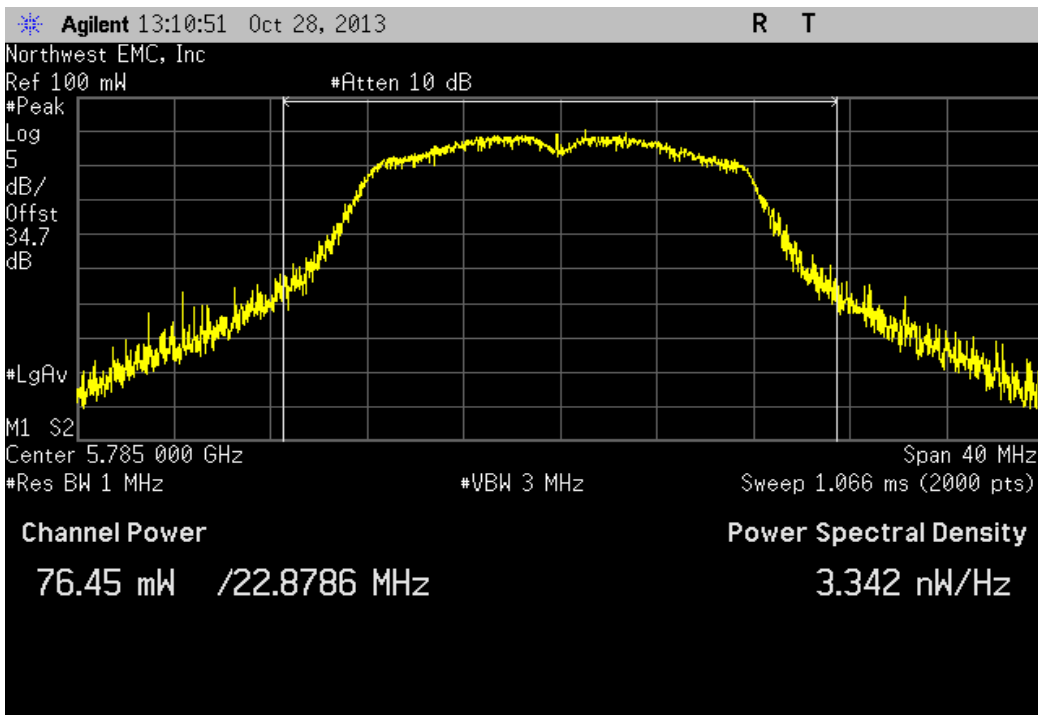
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
90.806 mW	< 1 W	Pass



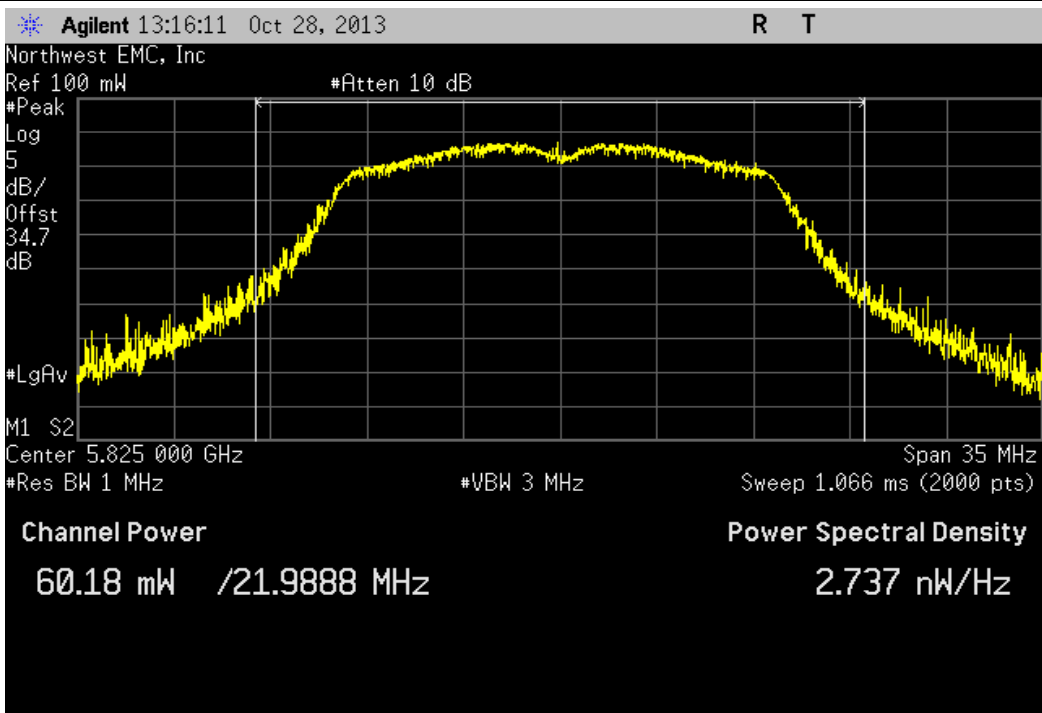
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
76.453 mW	< 1 W	Pass



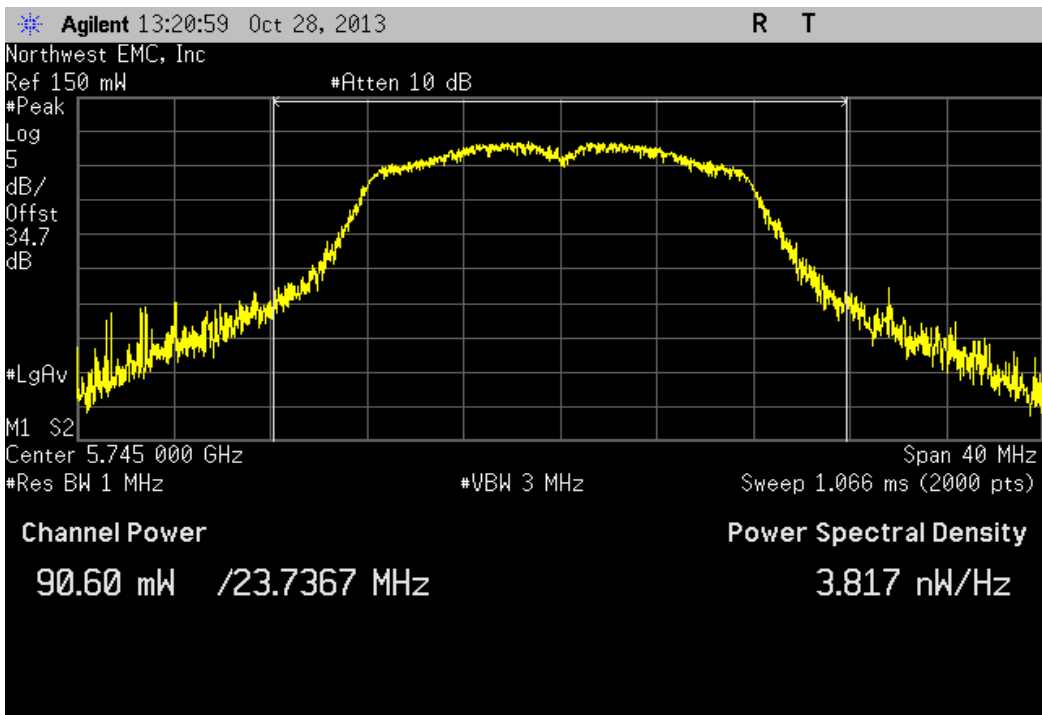
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
60.178 mW	< 1 W	Pass



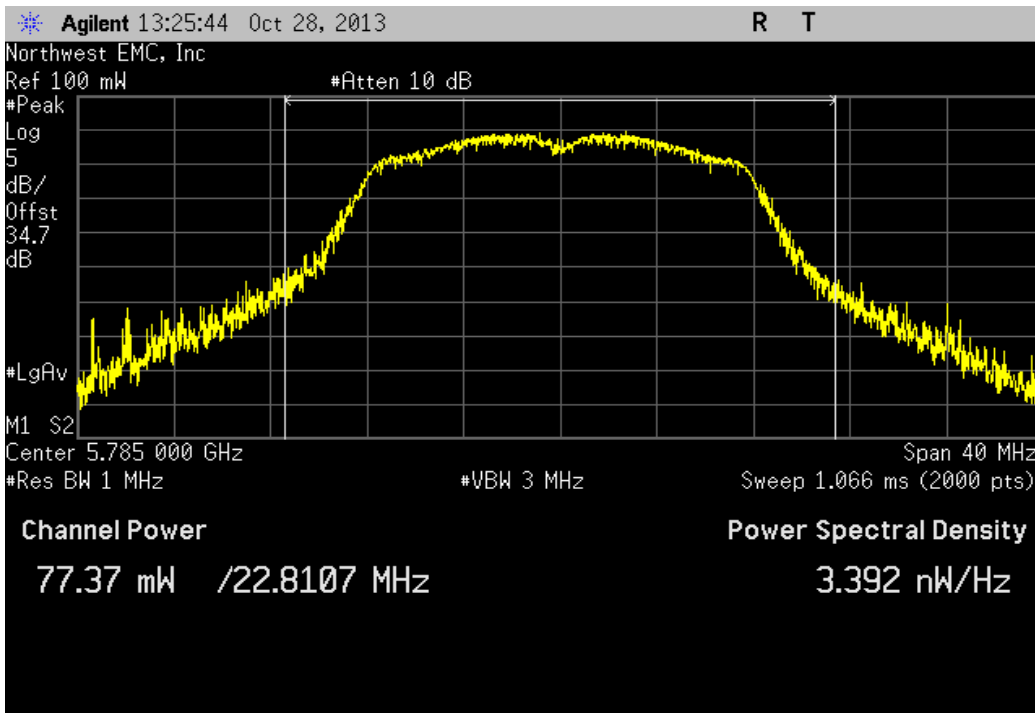
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
90.6 mW	< 1 W	Pass



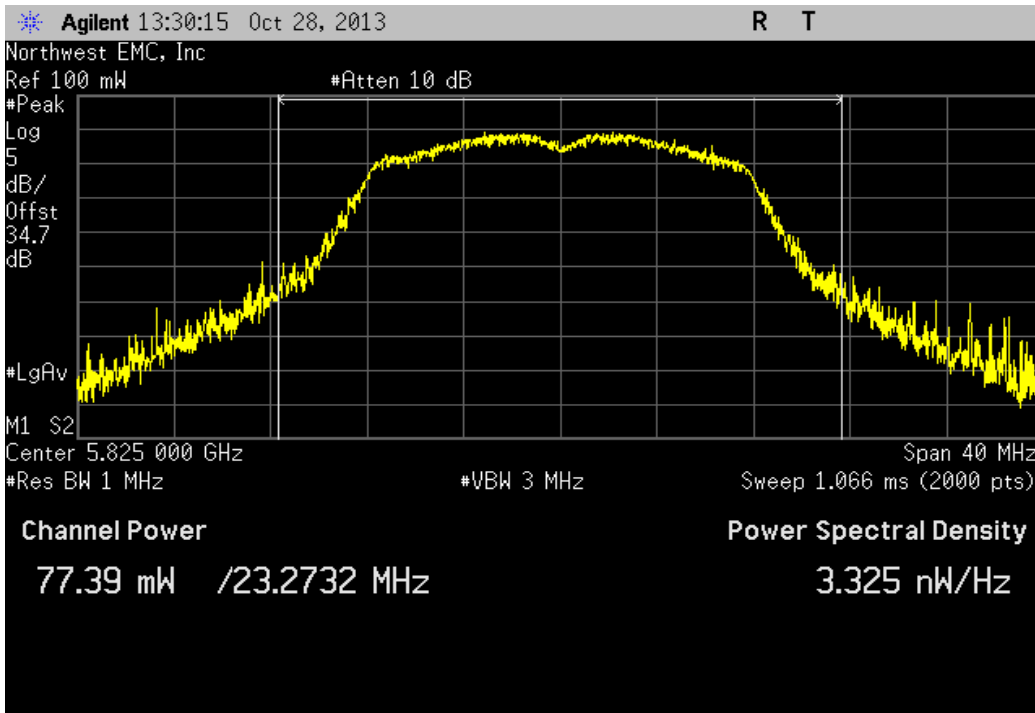
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
77.368 mW	< 1 W	Pass



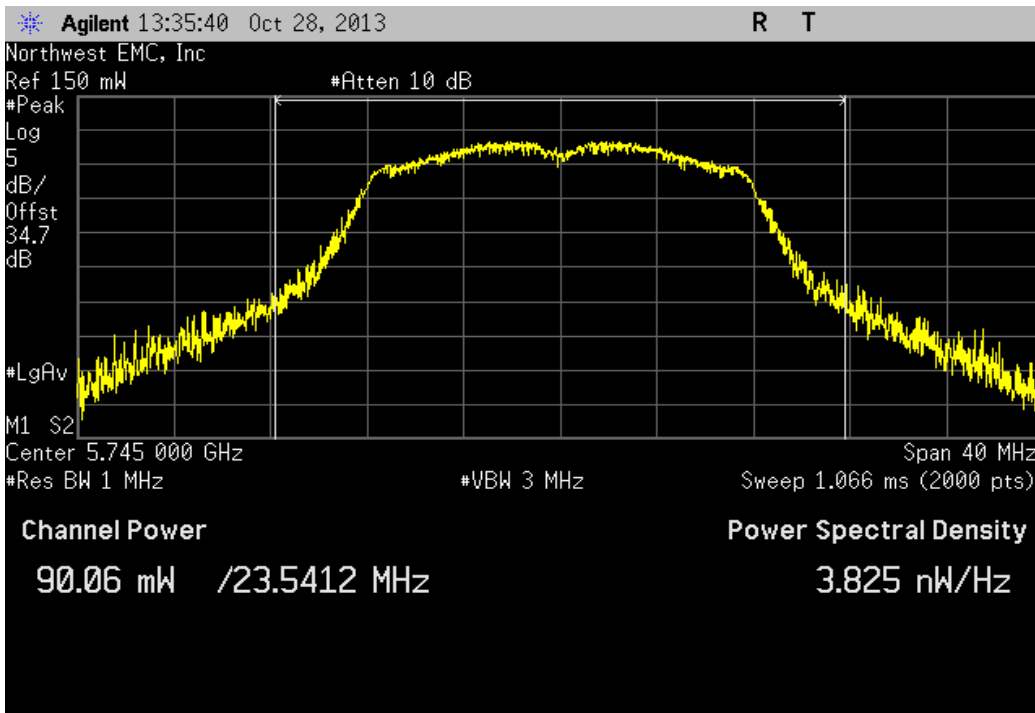
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
77.388 mW	< 1 W	Pass



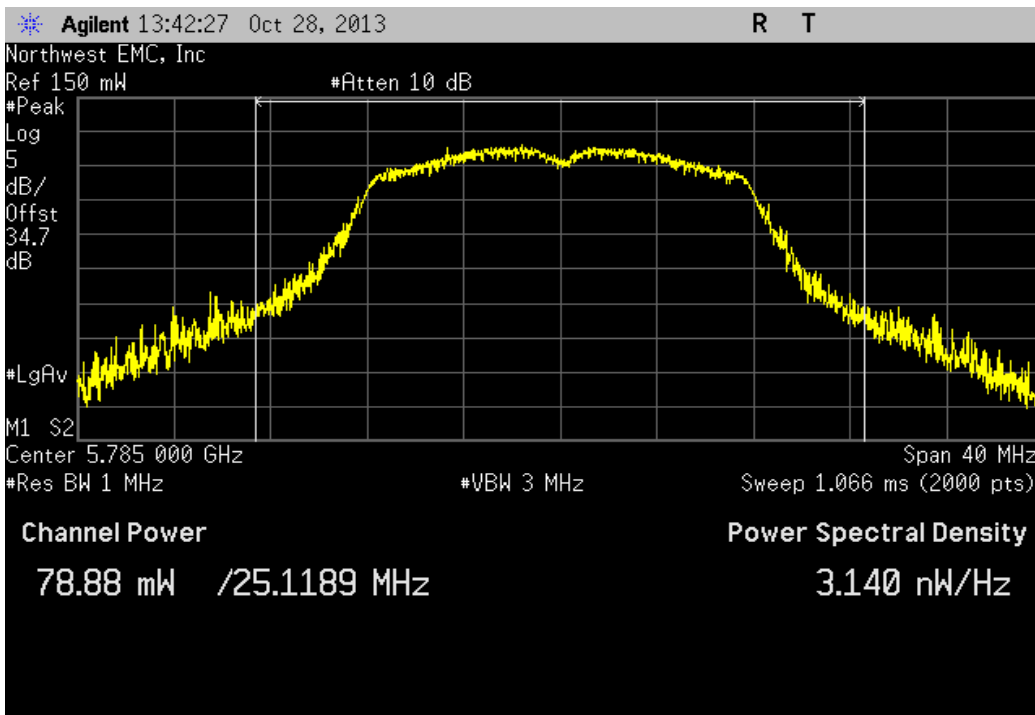
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
90.055 mW	< 1 W	Pass



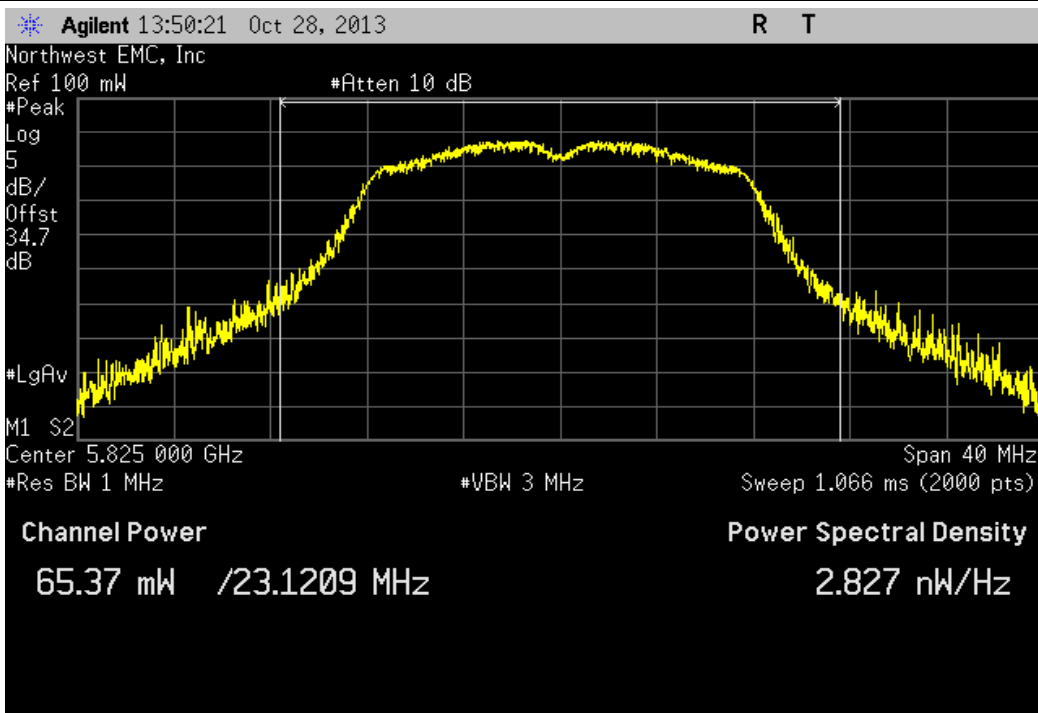
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz

Value	Limit	Result
78.882 mW	< 1 W	Pass



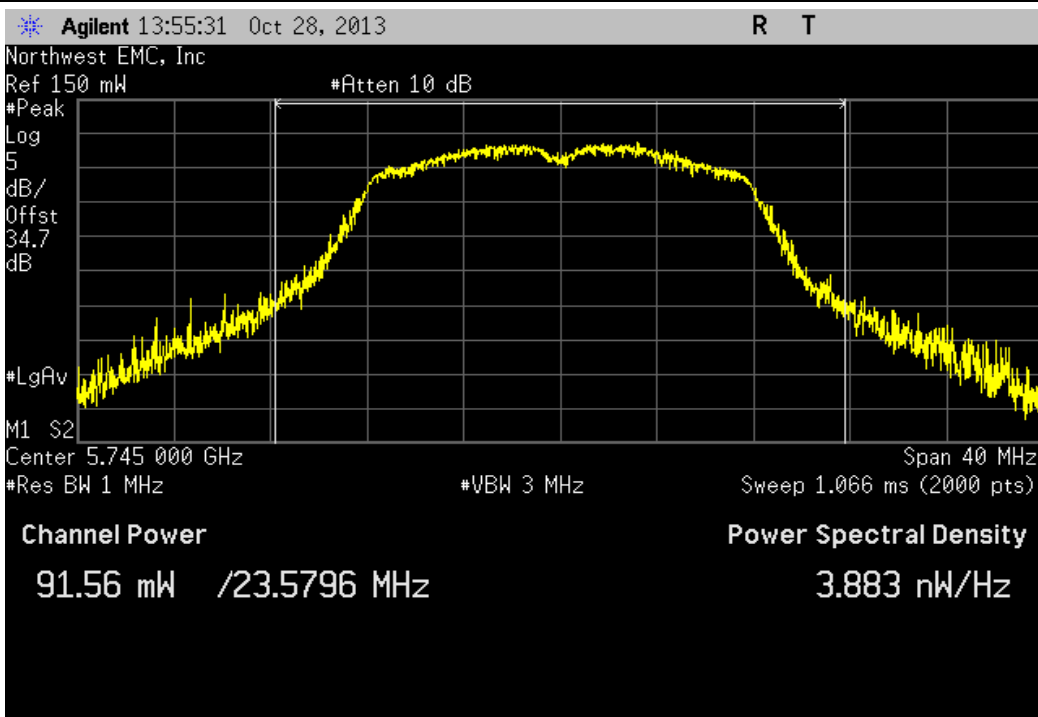
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

Value	Limit	Result
65.371 mW	< 1 W	Pass



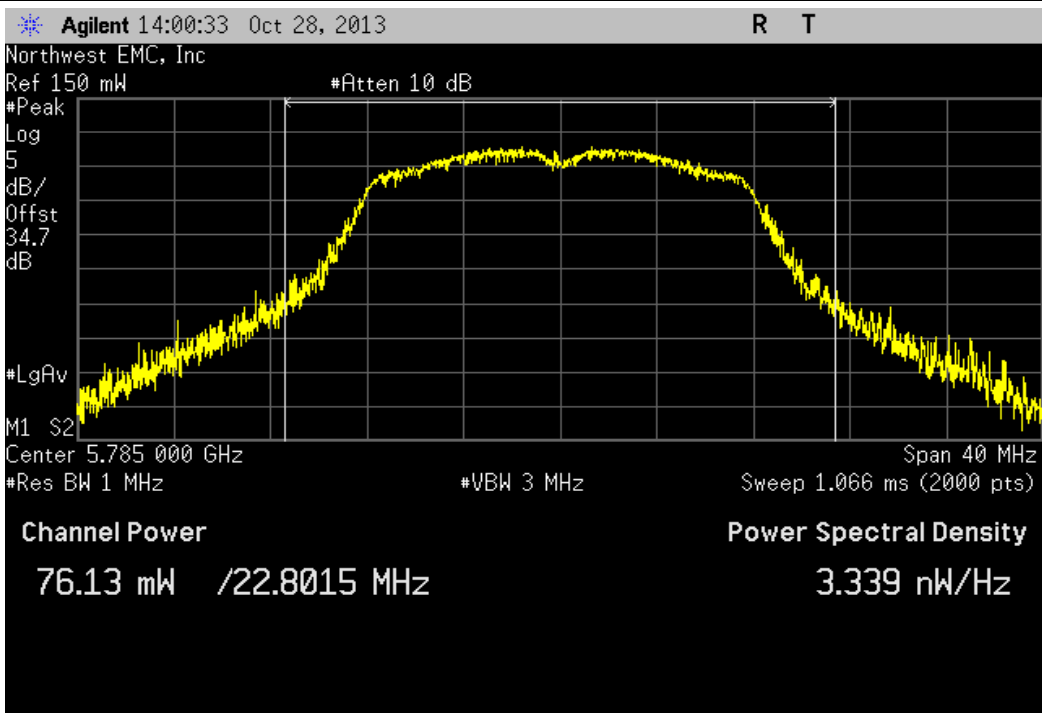
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
91.565 mW	< 1 W	Pass



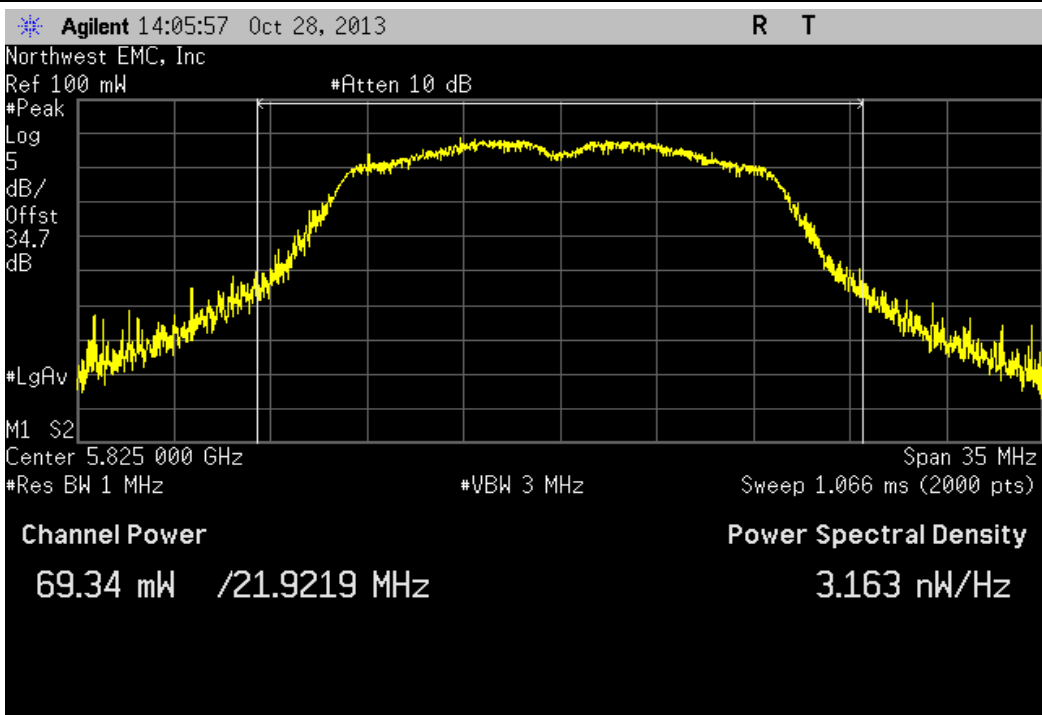
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				76.128 mW	< 1 W	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

				Value	Limit	Result
				69.337 mW	< 1 W	Pass



Power Spectral Density

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

The maximum power spectral density measurements were measured with the EUT set to the required transmit frequencies in each band. 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 lowest, middle, and maximum data rate for each modulation type available.

Per the procedure outlined in FCC KDB 558074 D01 DTS Measurement Section 10.2, the spectrum analyzer was used as follows:

- RBW = 100 kHz
- VBW = 300 kHz
- Detector = Peak (to match method used for power measurement)
- Trace = Max hold

The observed power level is then scaled to an equivalent value in 3 kHz by adding a Bandwidth Correction Factor (BWCF) where:

$$BWCF = 10 \cdot \log(3 \text{ kHz} / 100 \text{ kHz}) = -15.2 \text{ dB}$$

Power Setting by Band:

2412MHz – 2462MHz, Power setting of 21000

5745MHz – 5825MHz, Power setting of 21000

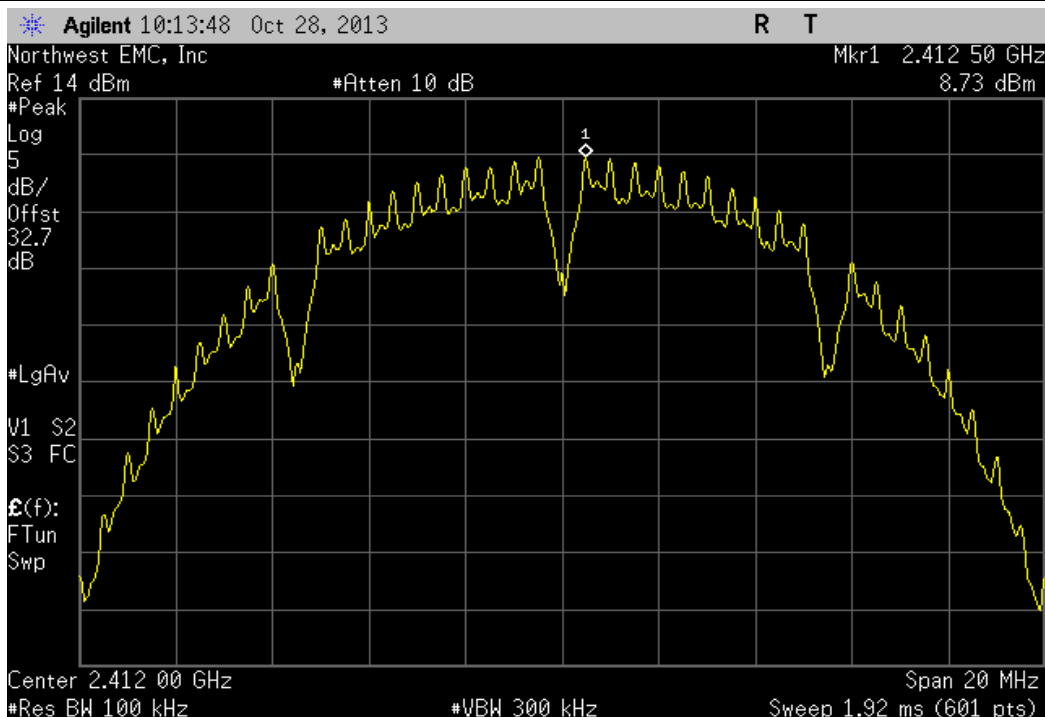


Power Spectral Density

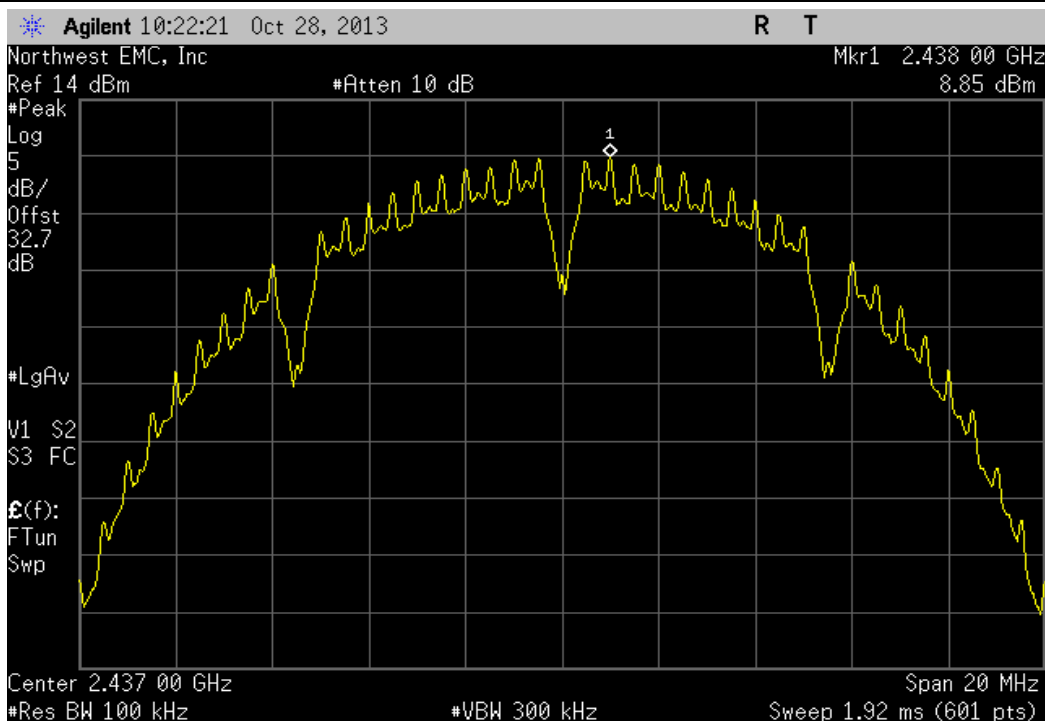
XMit 2013.08.15
PsaTx 2013.07.11

EUT: The EGG		Work Order: INSD0001				
Serial Number: 99		Date: 11/05/13				
Customer: Intel Corporation		Temperature: 22.2°C				
Attendees: Phil Auzas		Humidity: 42%				
Project: None		Barometric Pres.: 1015				
Tested by: Brandon Hobbs		Power: 4 VDC				
		Job Site: EV06				
TEST SPECIFICATIONS		Test Method				
FCC 15.247:2013		ANSI C63.10:2009				
COMMENTS						
The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	2	Signature 				
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
2400 MHz - 2483.5 MHz Band						
802.11(b) 1 Mbps						
Low Channel 1, 2412 MHz		8.733	-15.2	-6.467	8	Pass
Mid Channel 6, 2437 MHz		8.85	-15.2	-6.35	8	Pass
High Channel 11, 2462 MHz		9.066	-15.2	-6.134	8	Pass
802.11(b) 11 Mbps						
Low Channel 1, 2412 MHz		8.564	-15.2	-6.636	8	Pass
Mid Channel 6, 2437 MHz		8.895	-15.2	-6.305	8	Pass
High Channel 11, 2462 MHz		9.17	-15.2	-6.03	8	Pass
802.11(g) 6 Mbps						
Low Channel 1, 2412 MHz		5.215	-15.2	-9.985	8	Pass
Mid Channel 6, 2437 MHz		5.557	-15.2	-9.643	8	Pass
High Channel 11, 2462 MHz		5.933	-15.2	-9.267	8	Pass
802.11(g) 36 Mbps						
Low Channel 1, 2412 MHz		5.504	-15.2	-9.696	8	Pass
Mid Channel 6, 2437 MHz		5.562	-15.2	-9.638	8	Pass
High Channel 11, 2462 MHz		5.583	-15.2	-9.617	8	Pass
802.11(g) 54 Mbps						
Low Channel 1, 2412 MHz		5.086	-15.2	-10.114	8	Pass
Mid Channel 6, 2437 MHz		5.69	-15.2	-9.51	8	Pass
High Channel 11, 2462 MHz		5.795	-15.2	-9.405	8	Pass
802.11(n) MCS0						
Low Channel 1, 2412 MHz		5.668	-15.2	-9.532	8	Pass
Mid Channel 6, 2437 MHz		6.062	-15.2	-9.138	8	Pass
High Channel 11, 2462 MHz		5.924	-15.2	-9.276	8	Pass
802.11(n) MCS7						
Low Channel 1, 2412 MHz		5.332	-15.2	-9.868	8	Pass
Mid Channel 6, 2437 MHz		5.636	-15.2	-9.564	8	Pass
High Channel 11, 2462 MHz		6.043	-15.2	-9.157	8	Pass
5725 MHz - 5850 MHz Band						
802.11(a) 6 Mbps						
Low Channel 149, 5745 MHz		7.199	-15.2	-8.001	8	Pass
Mid Channel 157, 5785 MHz		5.784	-15.2	-9.416	8	Pass
High Channel 165, 5825 MHz		7.94	-15.2	-7.26	8	Pass
802.11(a) 36 Mbps						
Low Channel 149, 5745 MHz		7.806	-15.2	-7.394	8	Pass
Mid Channel 157, 5785 MHz		6.953	-15.2	-8.247	8	Pass
High Channel 165, 5825 MHz		6.83	-15.2	-8.37	8	Pass
802.11(a) 54 Mbps						
Low Channel 149, 5745 MHz		7.393	-15.2	-7.807	8	Pass
Mid Channel 157, 5785 MHz		6.296	-15.2	-8.904	8	Pass
High Channel 165, 5825 MHz		7.136	-15.2	-8.064	8	Pass
802.11(n) MCS0 - UNII						
Low Channel 149, 5745 MHz		7.024	-15.2	-8.176	8	Pass
Mid Channel 157, 5785 MHz		7.112	-15.2	-8.088	8	Pass
High Channel 165, 5825 MHz		6.443	-15.2	-8.757	8	Pass
802.11(n) MCS7 - UNII						
Low Channel 149, 5745 MHz		7.288	-15.2	-7.912	8	Pass
Mid Channel 157, 5785 MHz		6.403	-15.2	-8.797	8	Pass
High Channel 165, 5825 MHz		6.483	-15.2	-8.717	8	Pass

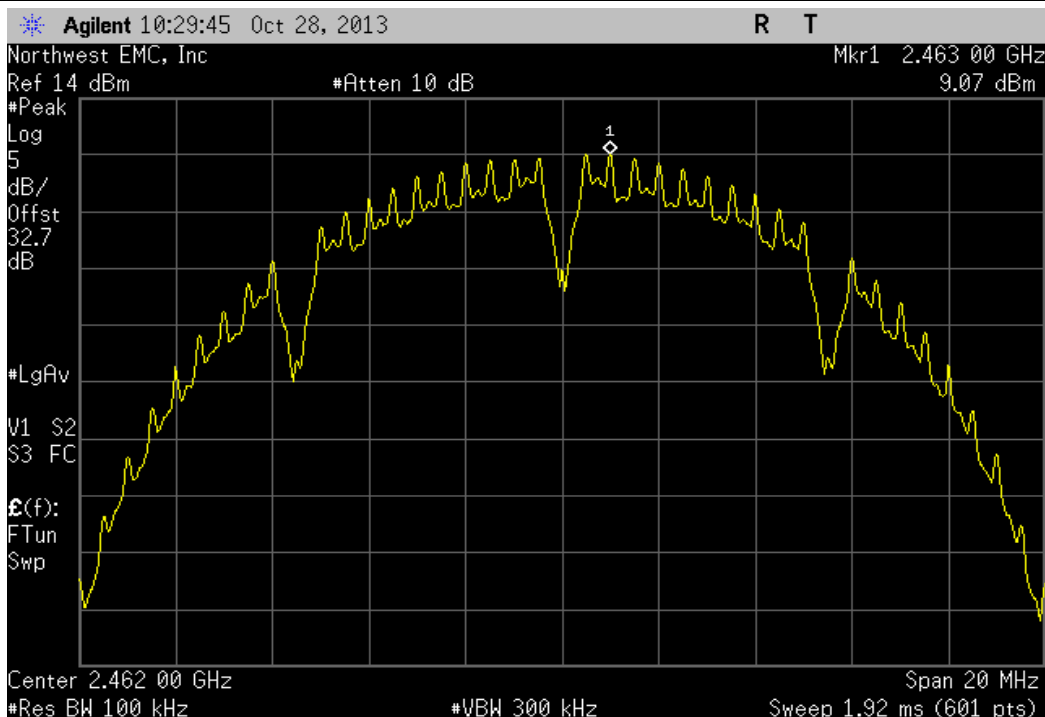
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	8.733	-15.2	-6.467	8	Pass	



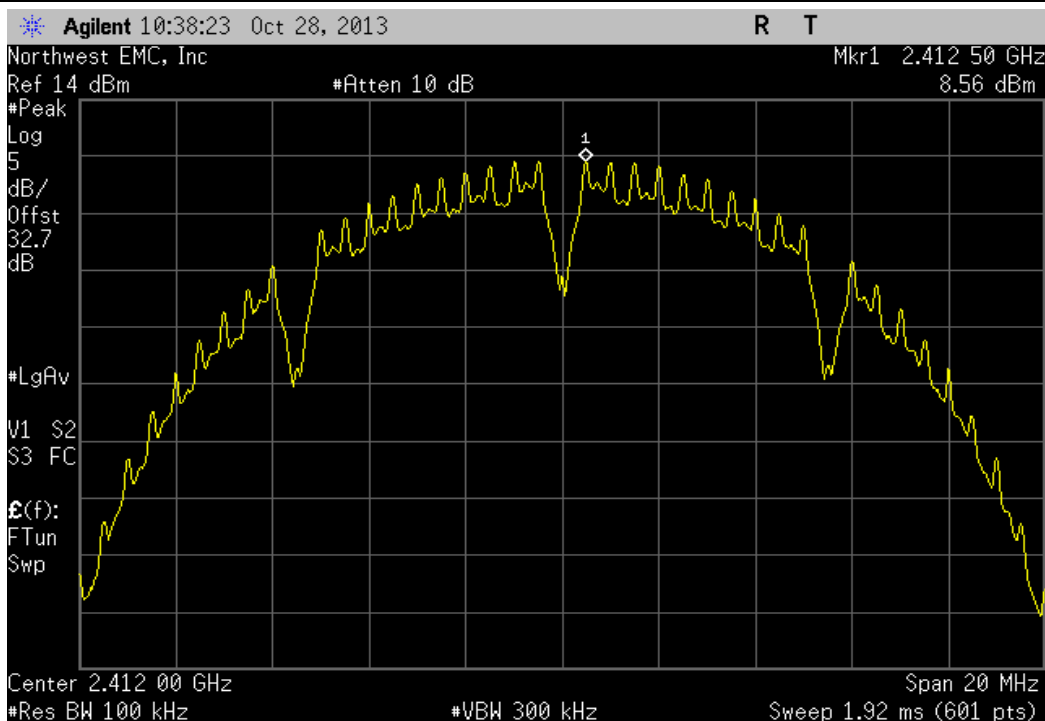
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	8.85	-15.2	-6.35	8	Pass	



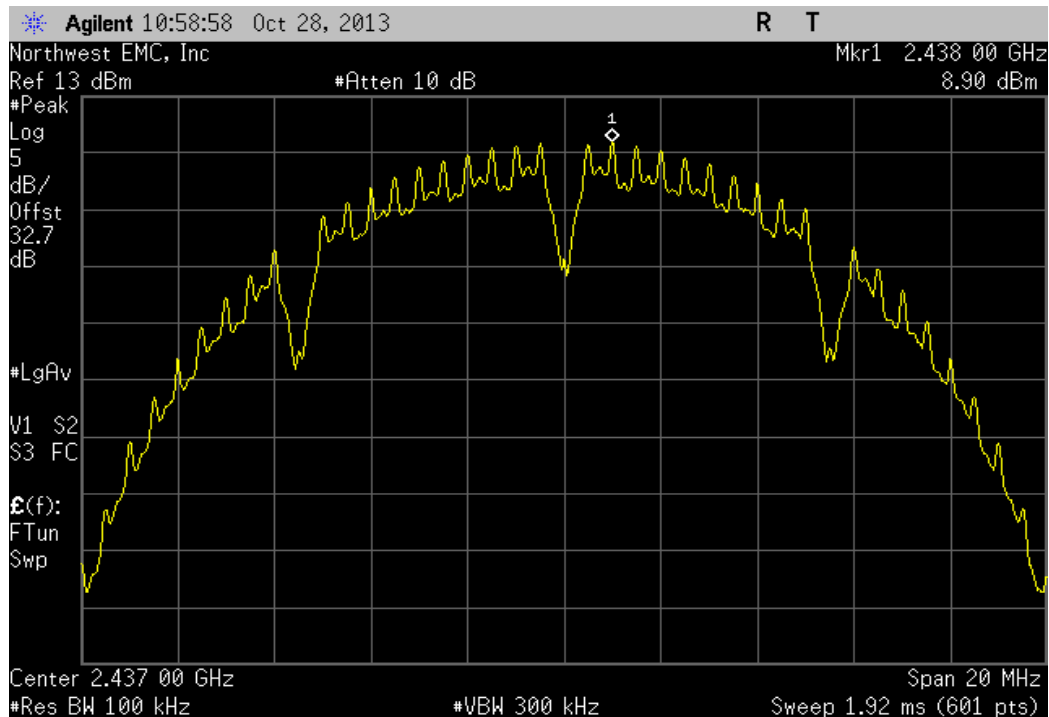
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit	Result
		9.066	-15.2	-6.134	8	Pass



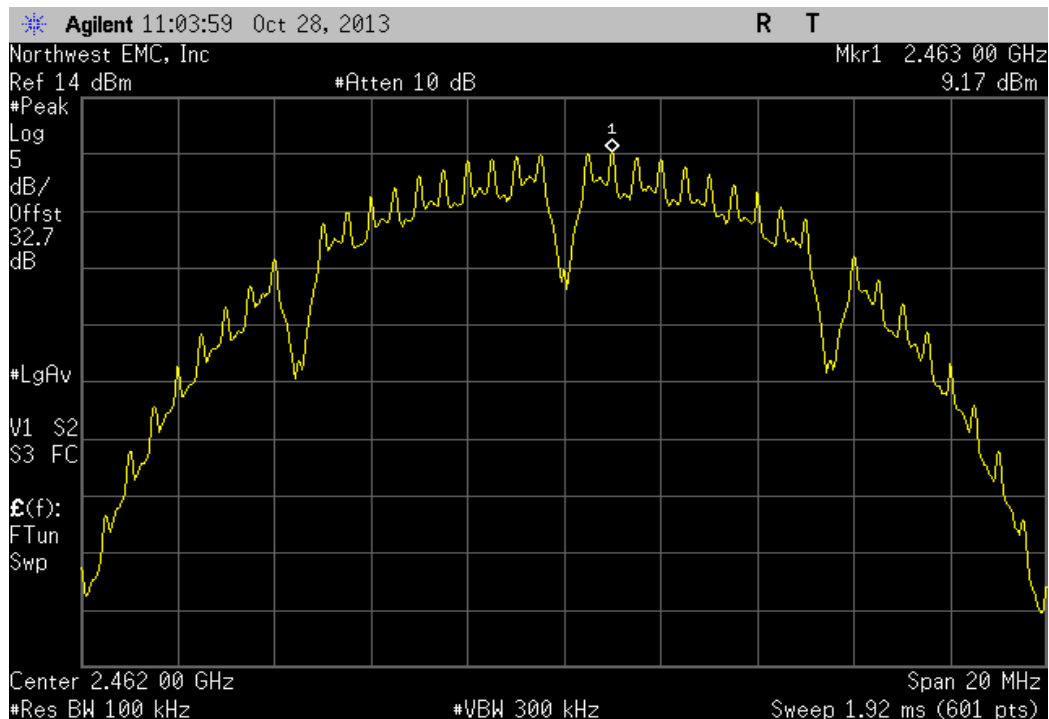
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit	Result
		8.564	-15.2	-6.636	8	Pass



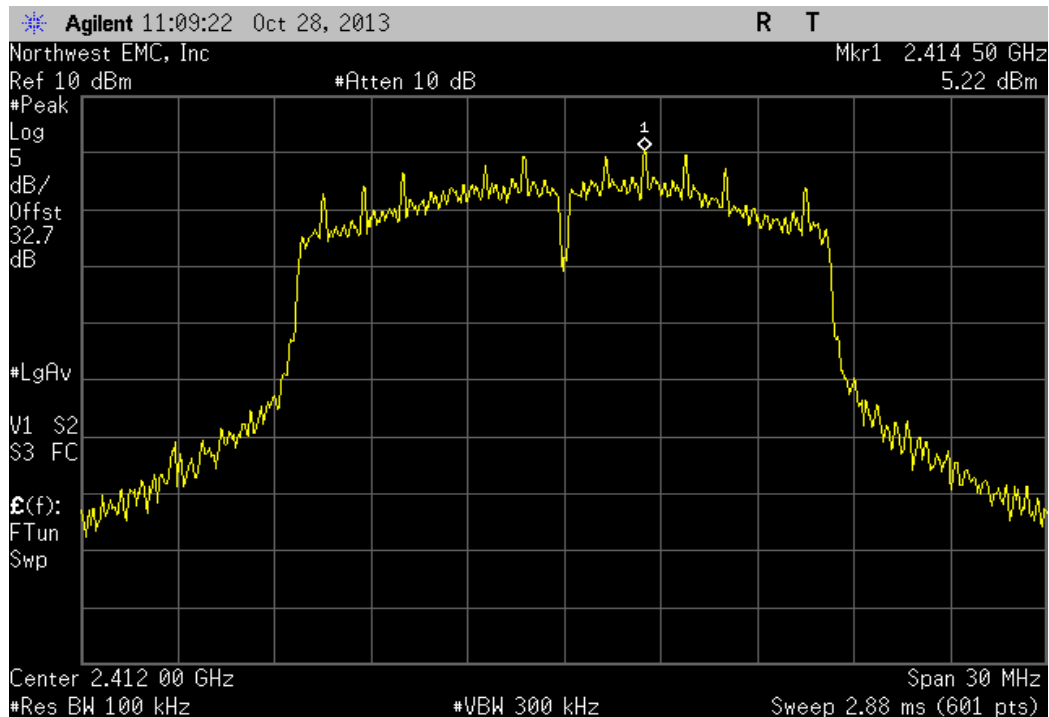
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	8.895	-15.2	-6.305	8	Pass	



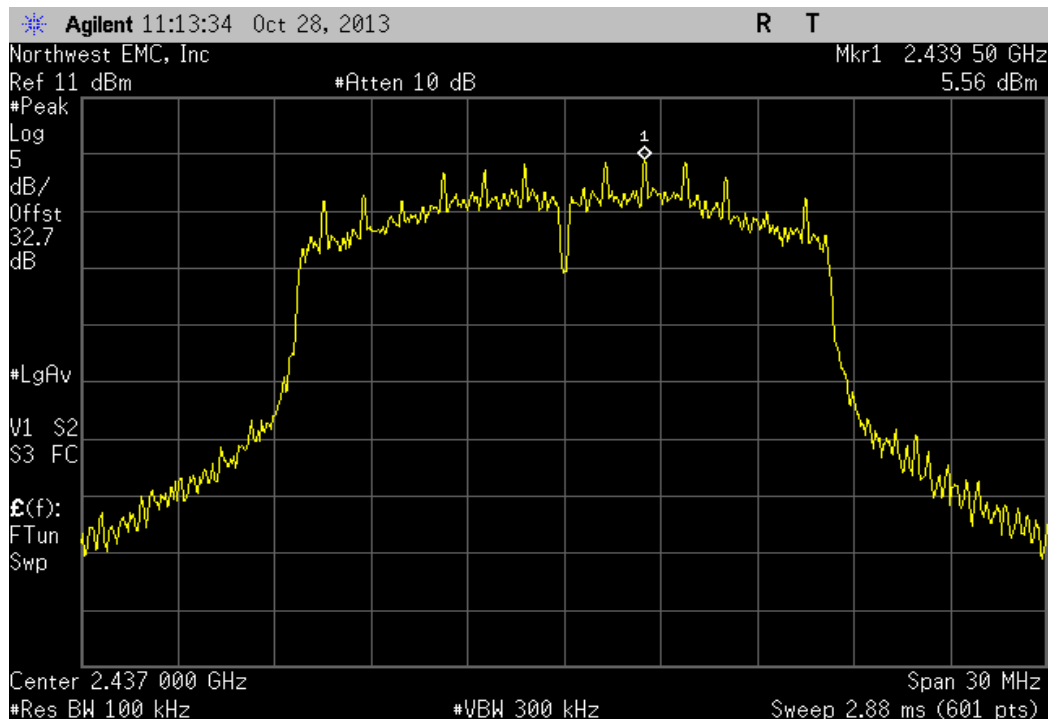
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	9.17	-15.2	-6.03	8	Pass	



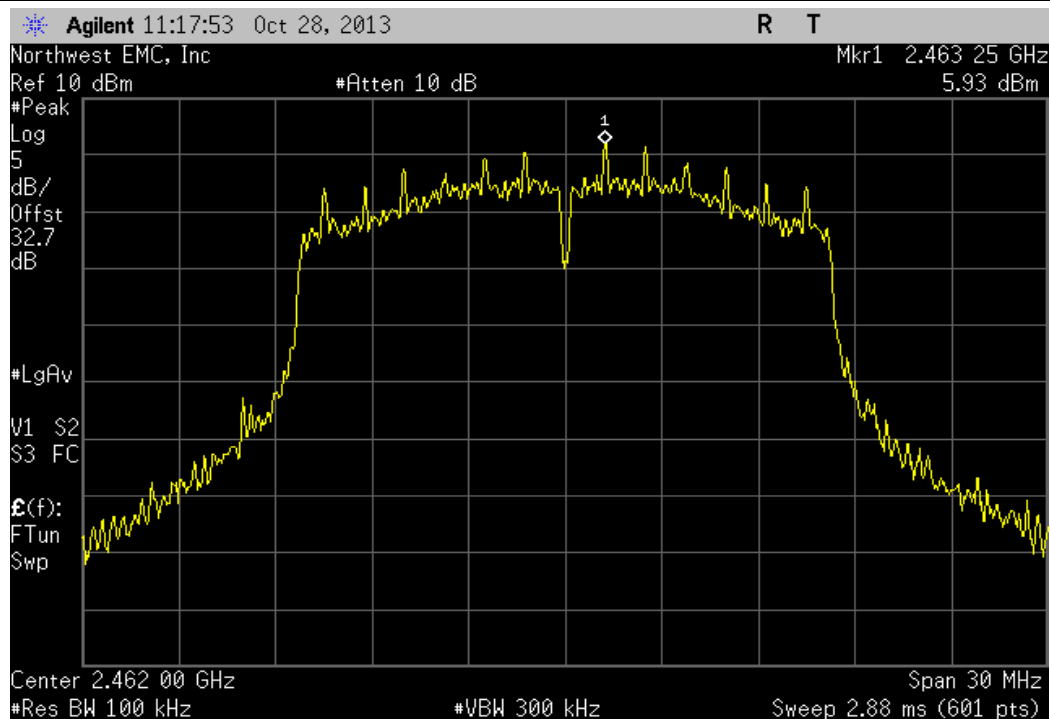
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit		
		To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	5.215	-15.2	-9.985	8	Pass	



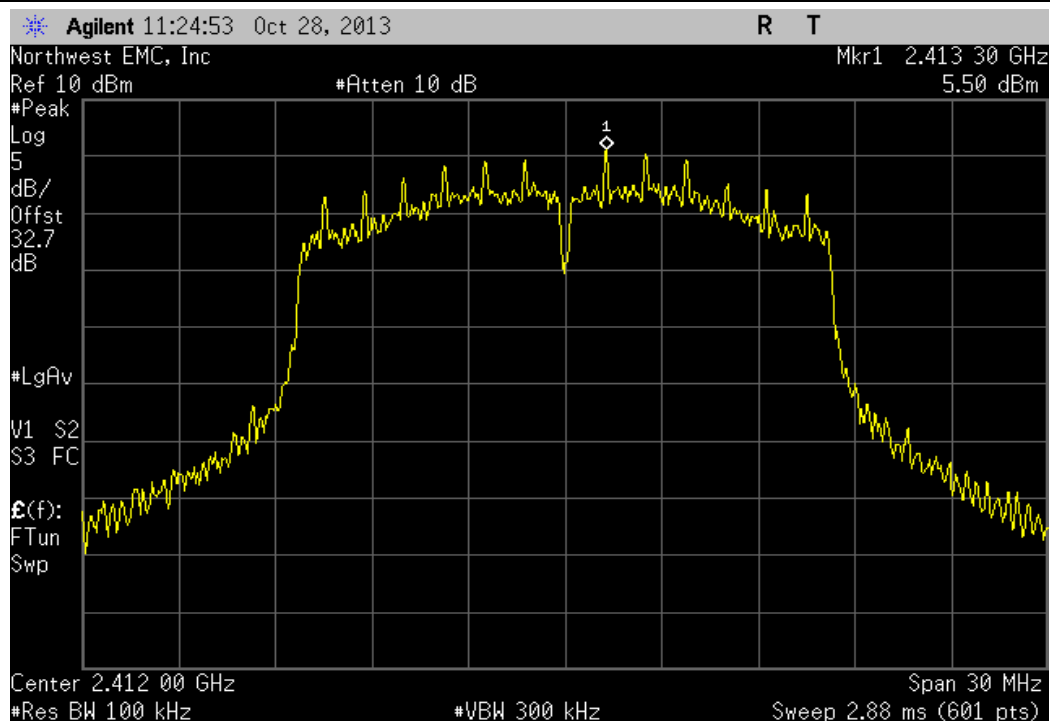
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit		
		To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	5.557	-15.2	-9.643	8	Pass	



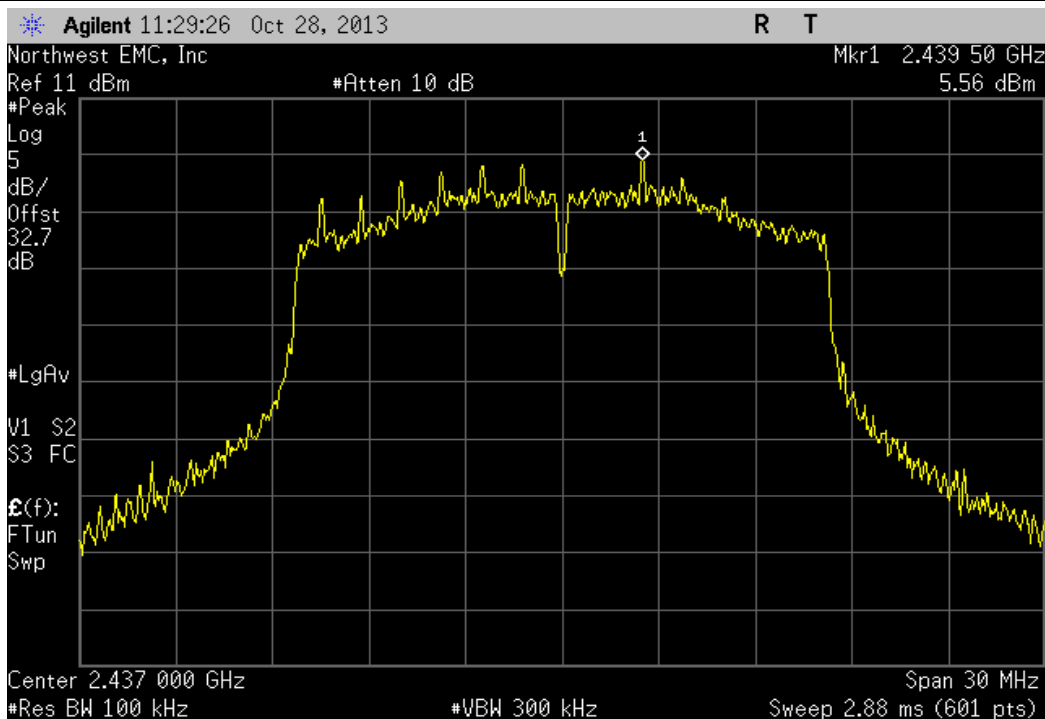
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Value		dBm/100kHz	Value		Limit	Result
		To dBm/3kHz	dBm/3kHz			
		5.933	-15.2	-9.267	8	Pass



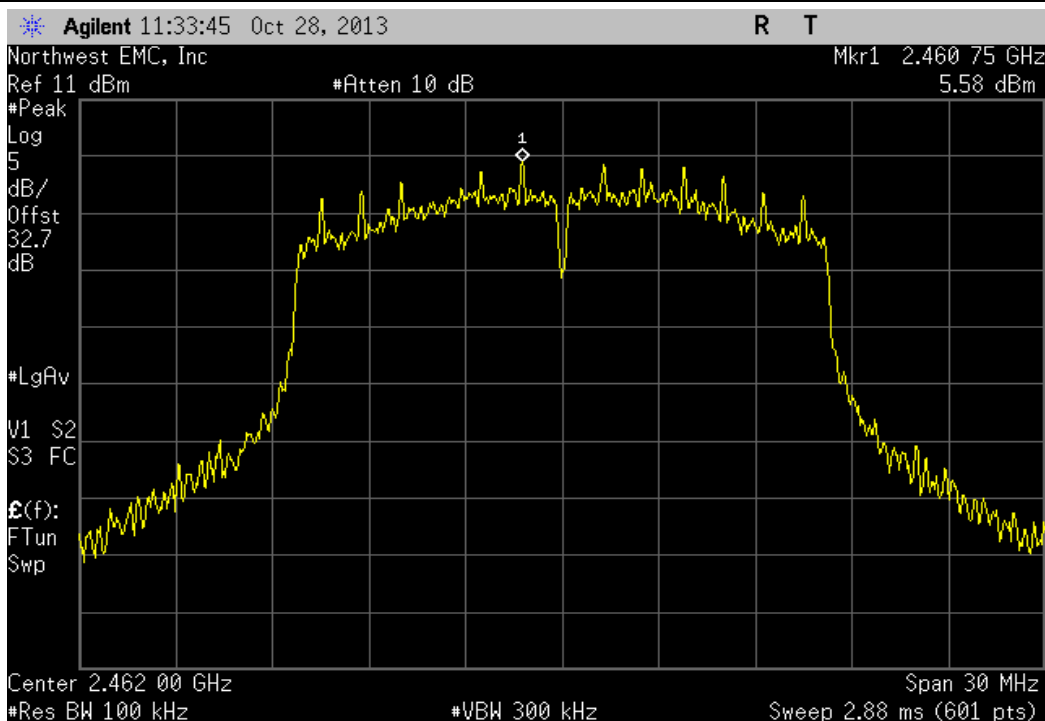
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
	Value	dBm/100kHz	Value	Limit	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result
	5.504	-15.2	-9.696	8	Pass



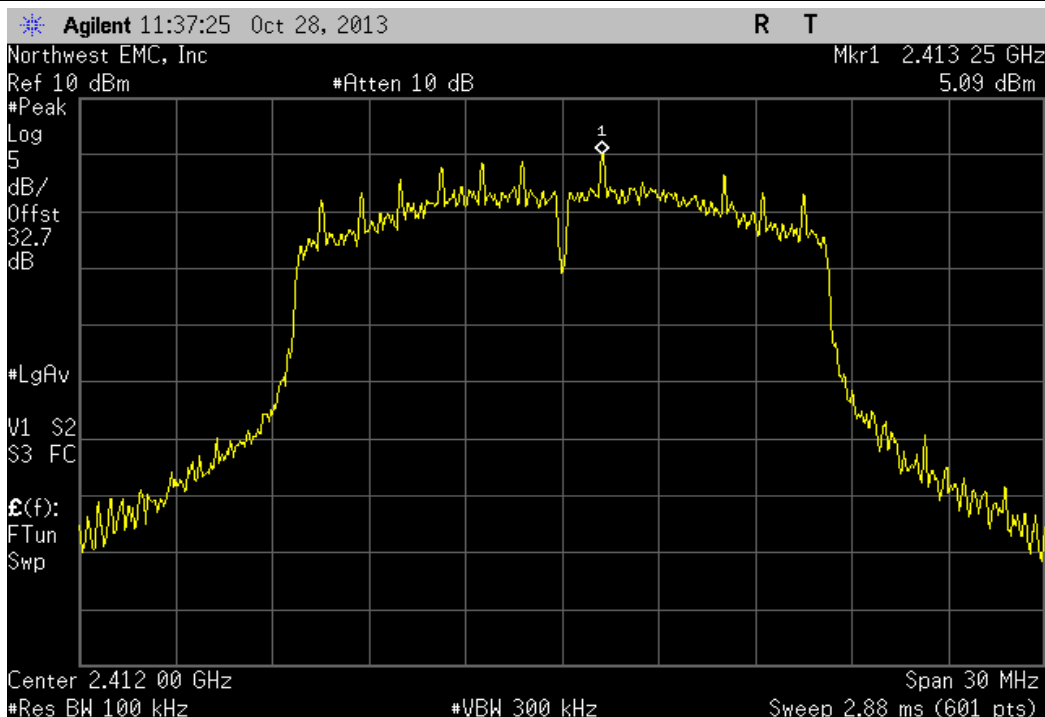
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	5.562	-15.2	-9.638	8	Pass



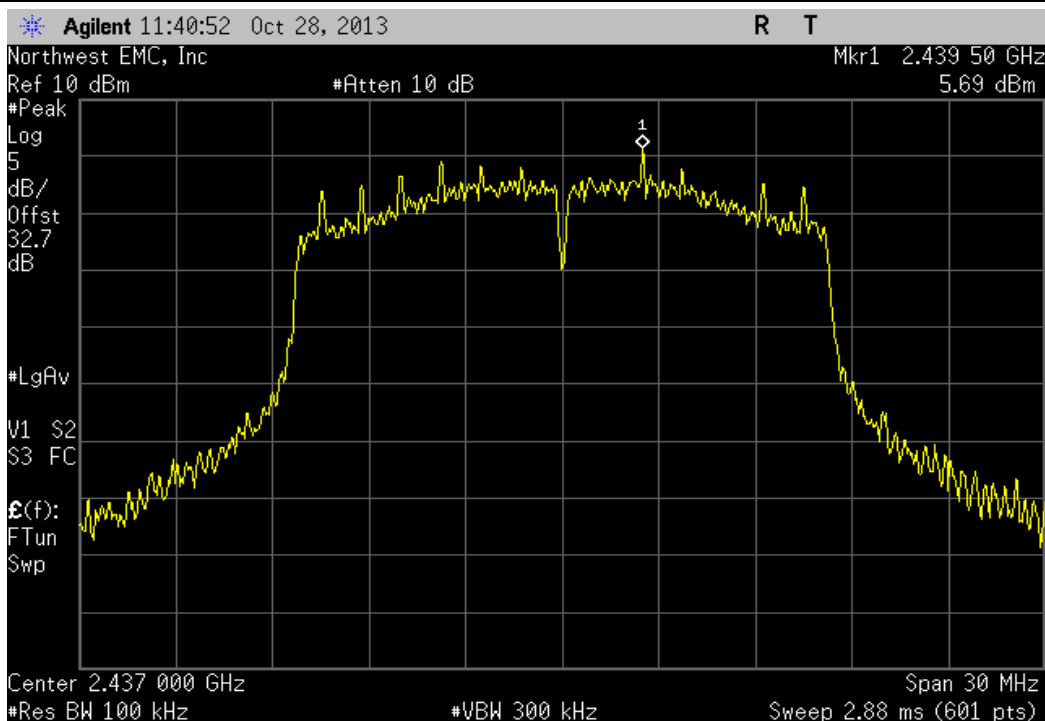
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	5.583	-15.2	-9.617	8	Pass



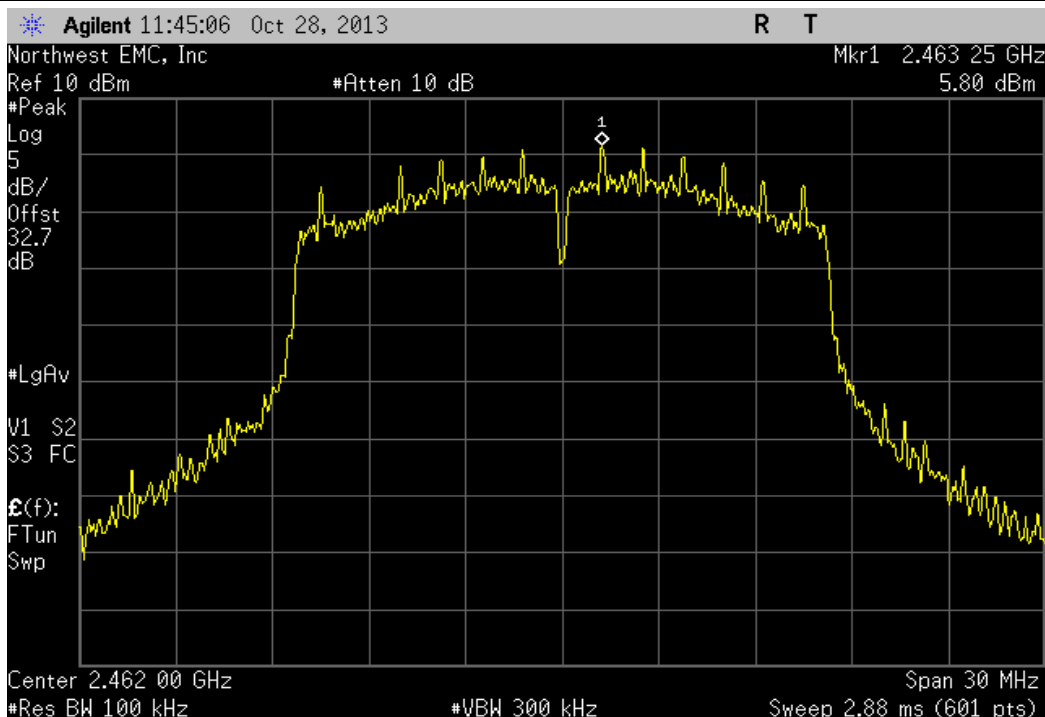
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit	Result
		dBm/100kHz		dBm/3kHz	dBm/3kHz	
		5.086	-15.2	-10.114	8	Pass



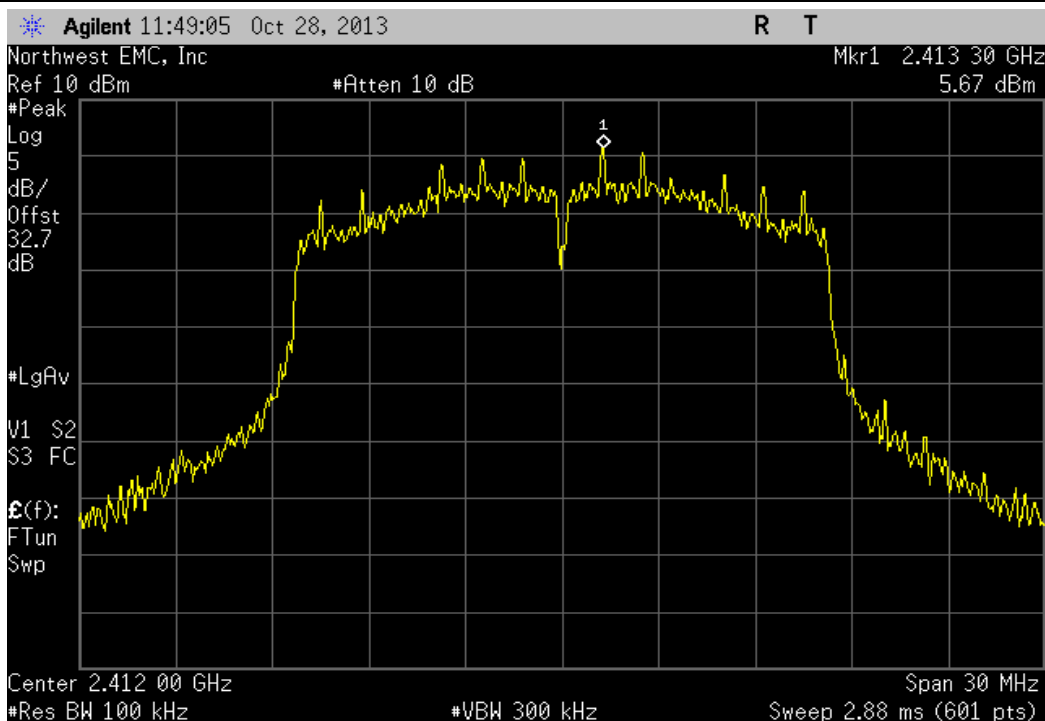
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit	Result
		dBm/100kHz		dBm/3kHz	dBm/3kHz	
		5.69	-15.2	-9.51	8	Pass



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit		
		To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	5.795	-15.2	-9.405	8	Pass	

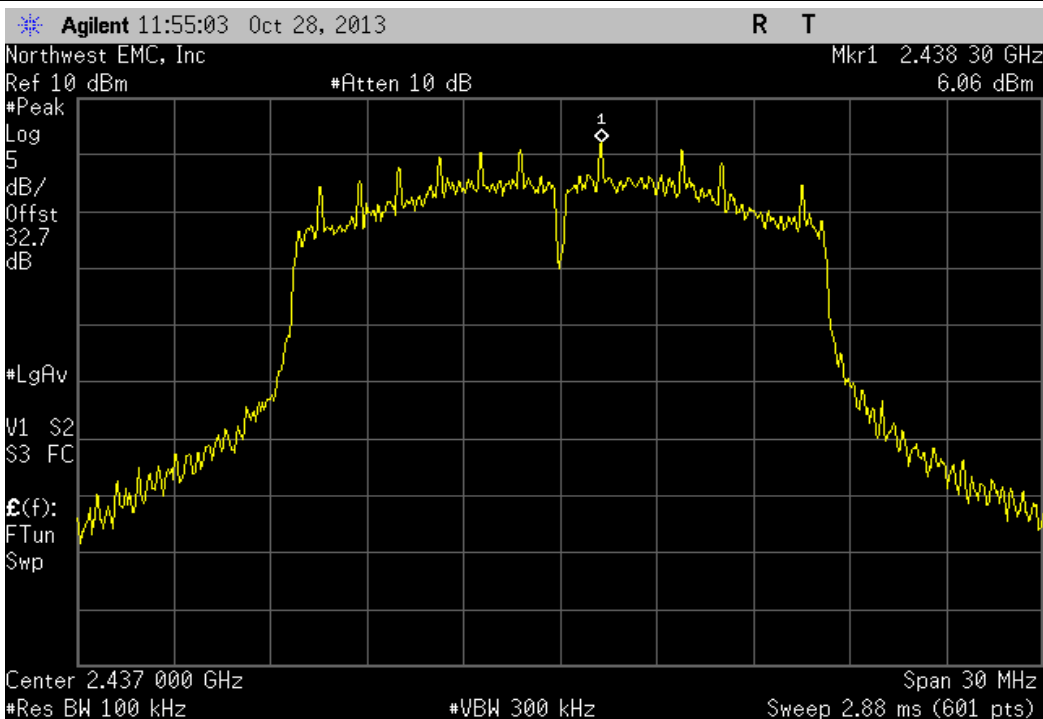


2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit		
		To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	5.668	-15.2	-9.532	8	Pass	



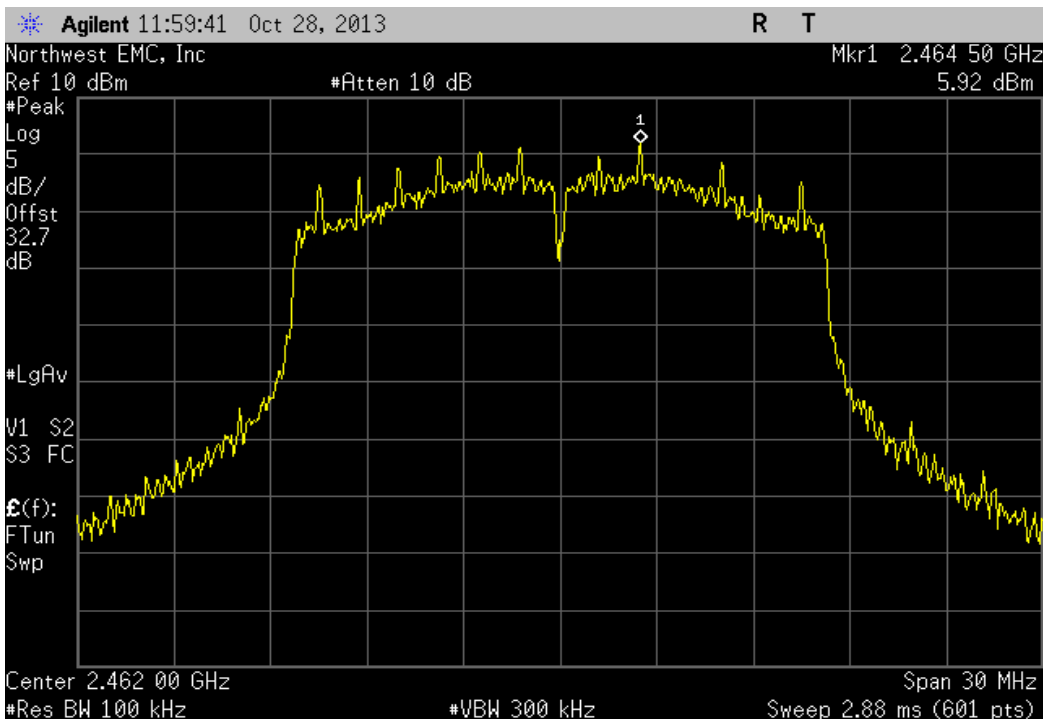
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

Value	dBm/100kHz	Value	Limit	Result
dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
6.062	-15.2	-9.138	8	Pass

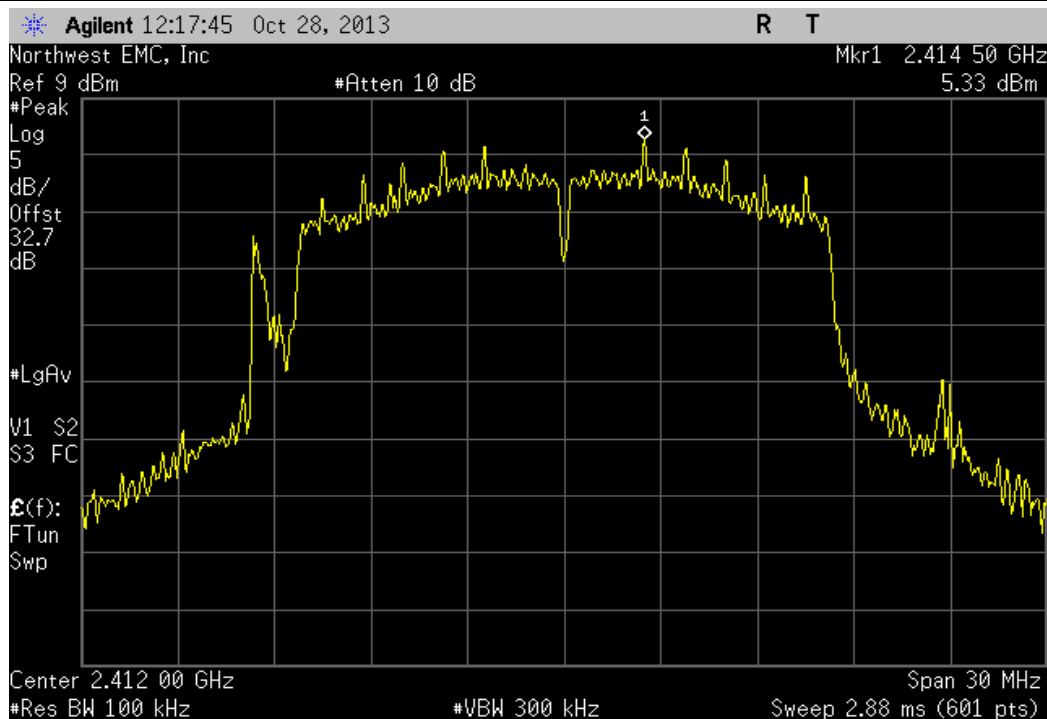


2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

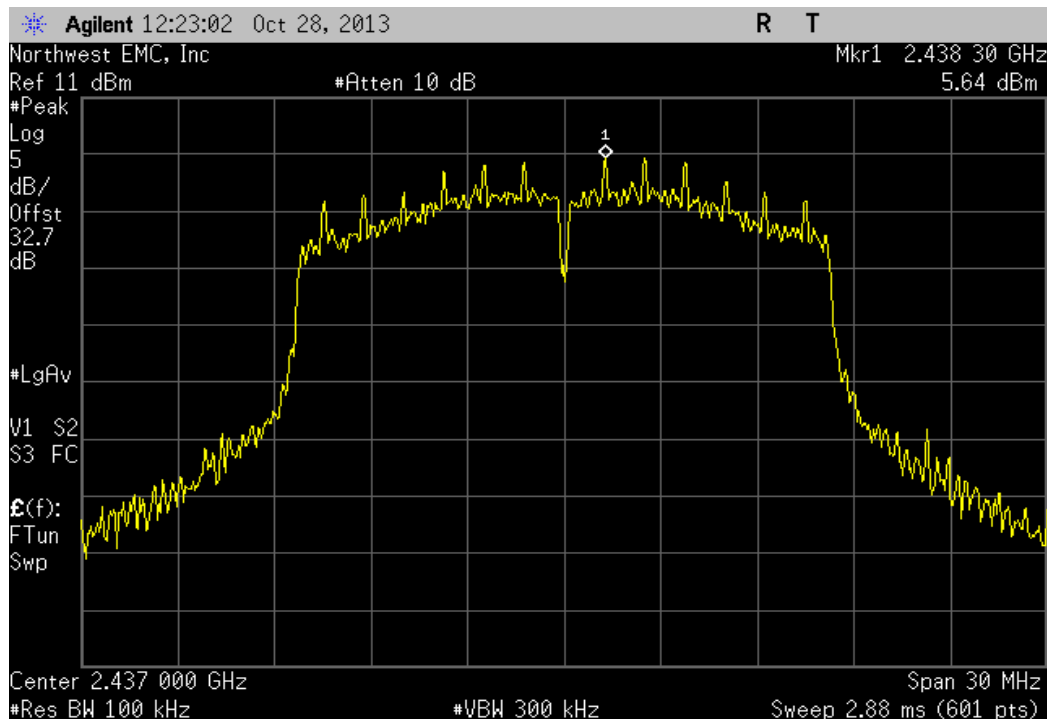
Value	dBm/100kHz	Value	Limit	Result
dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
5.924	-15.2	-9.276	8	Pass



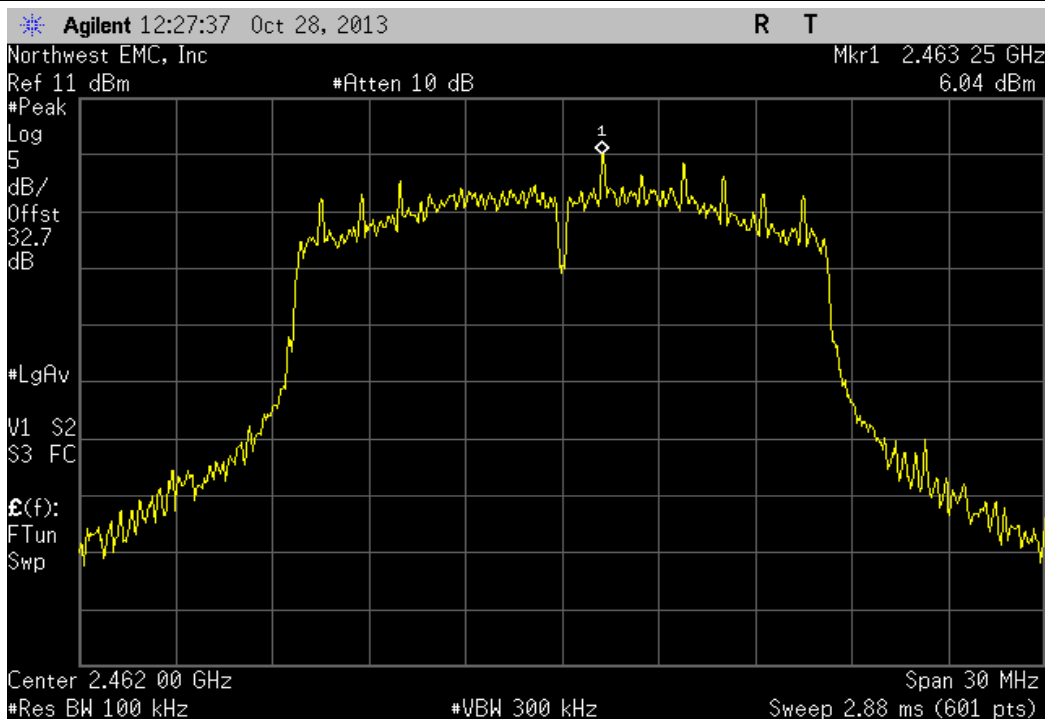
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Result	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz		
		5.332	-15.2	-9.868	8	Pass



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
		Value	dBm/100kHz	Value	Limit	
		dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result
		5.636	-15.2	-9.564	8	Pass



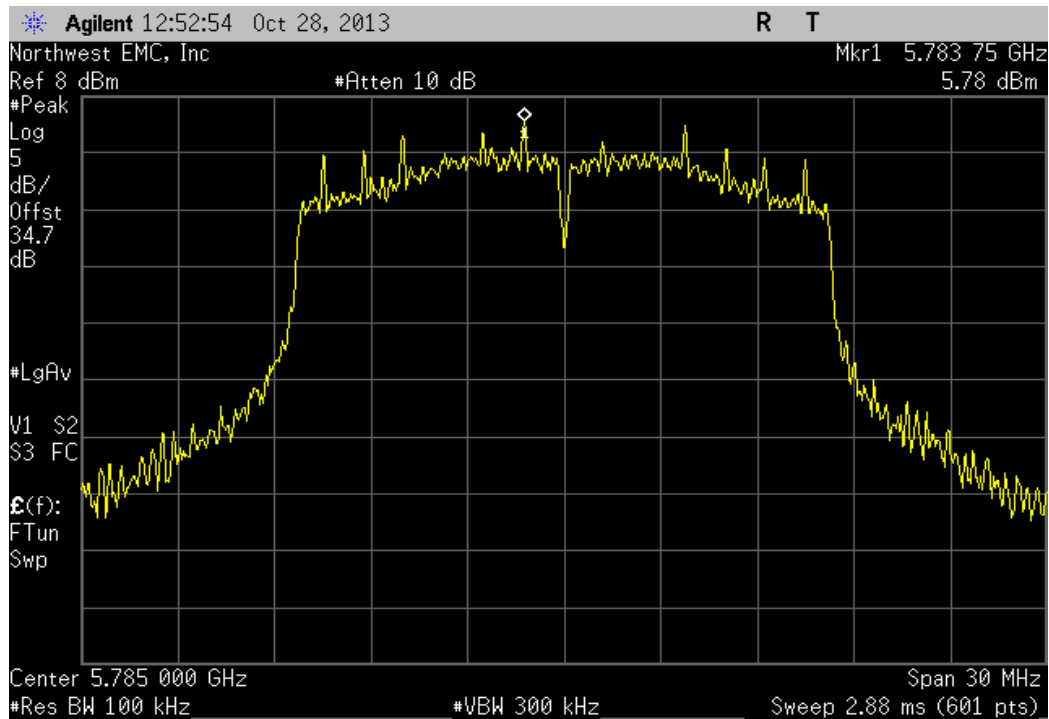
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	6.043	-15.2	-9.157	8	Pass	



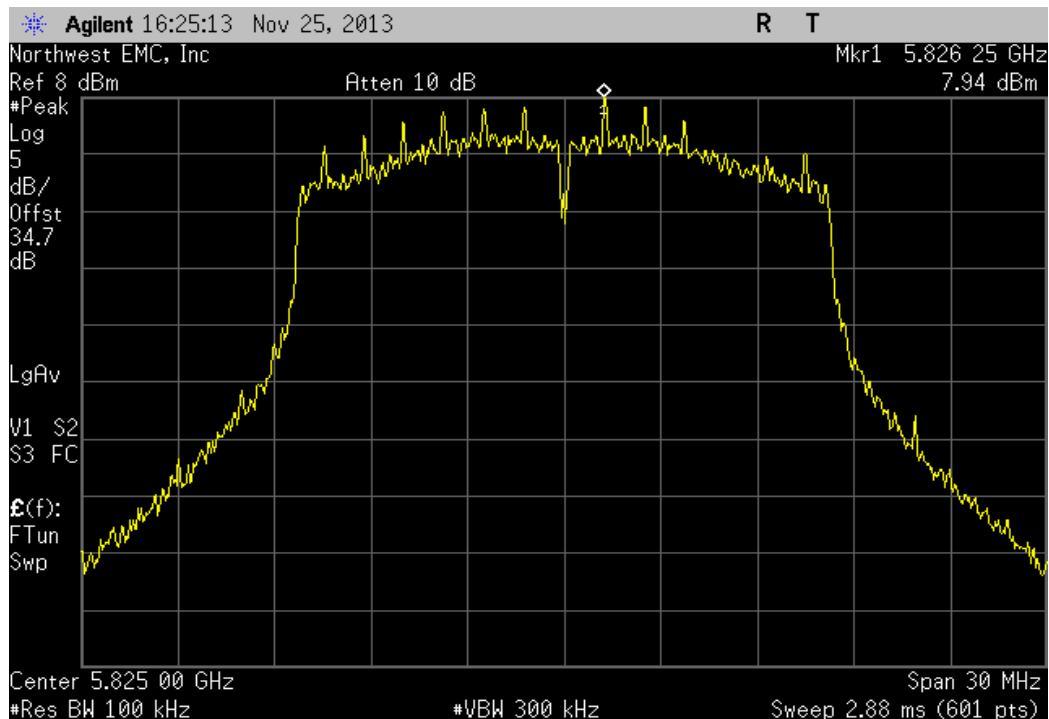
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	7.199	-15.2	-8.001	8	Pass	



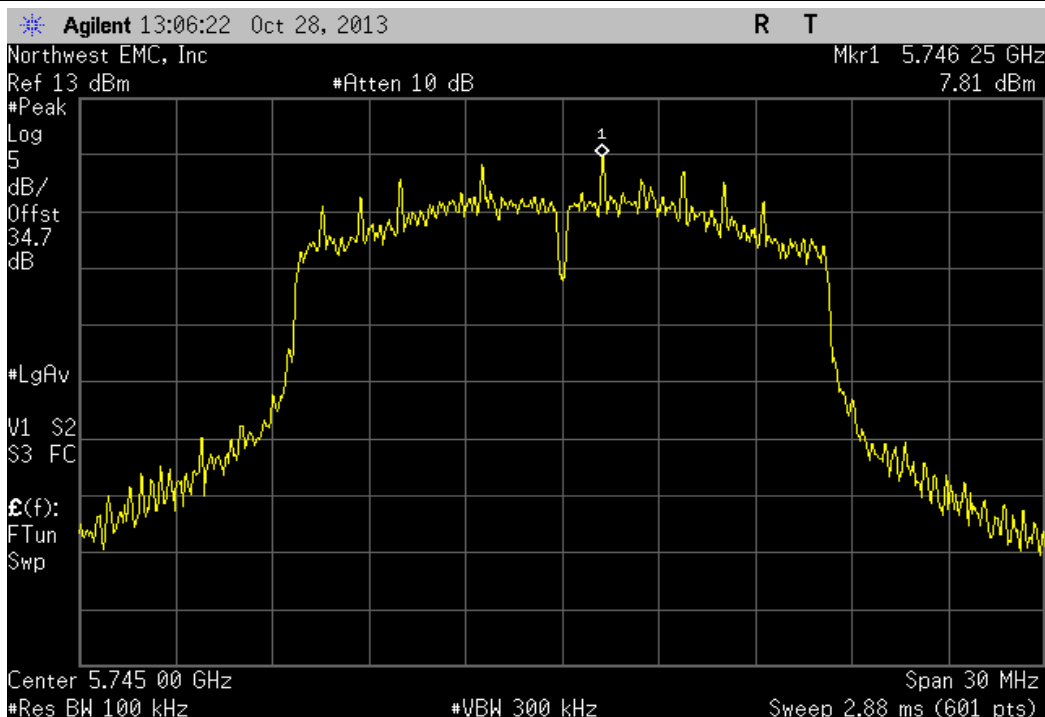
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	5.784	-15.2	-9.416	8	Pass	



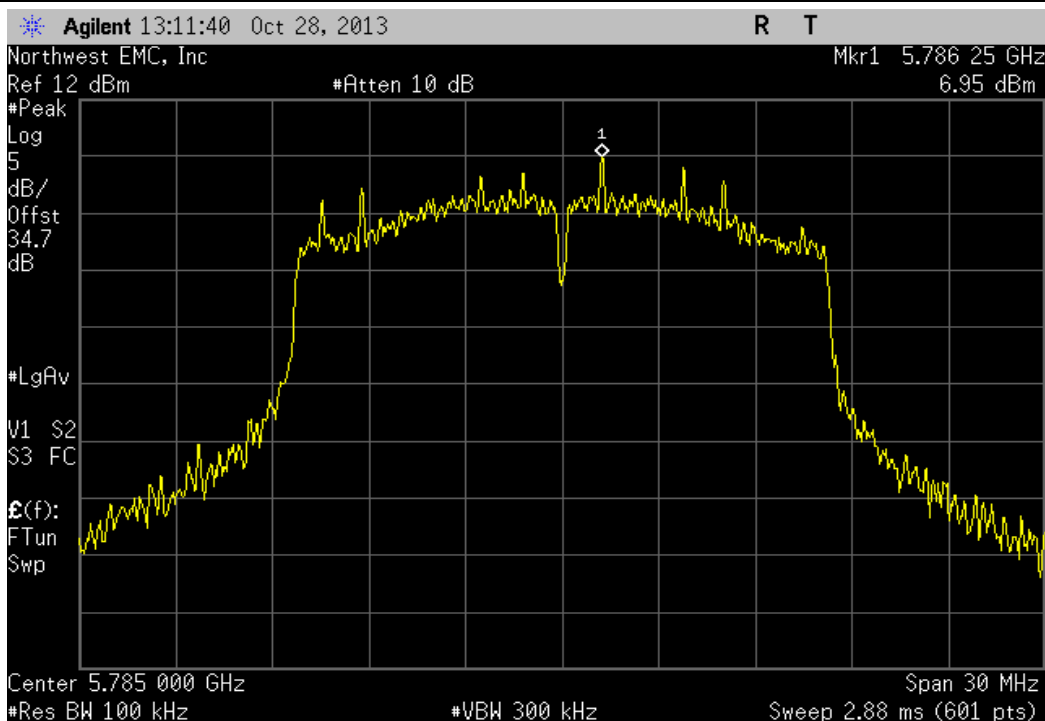
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	7.94	-15.2	-7.26	8	Pass	



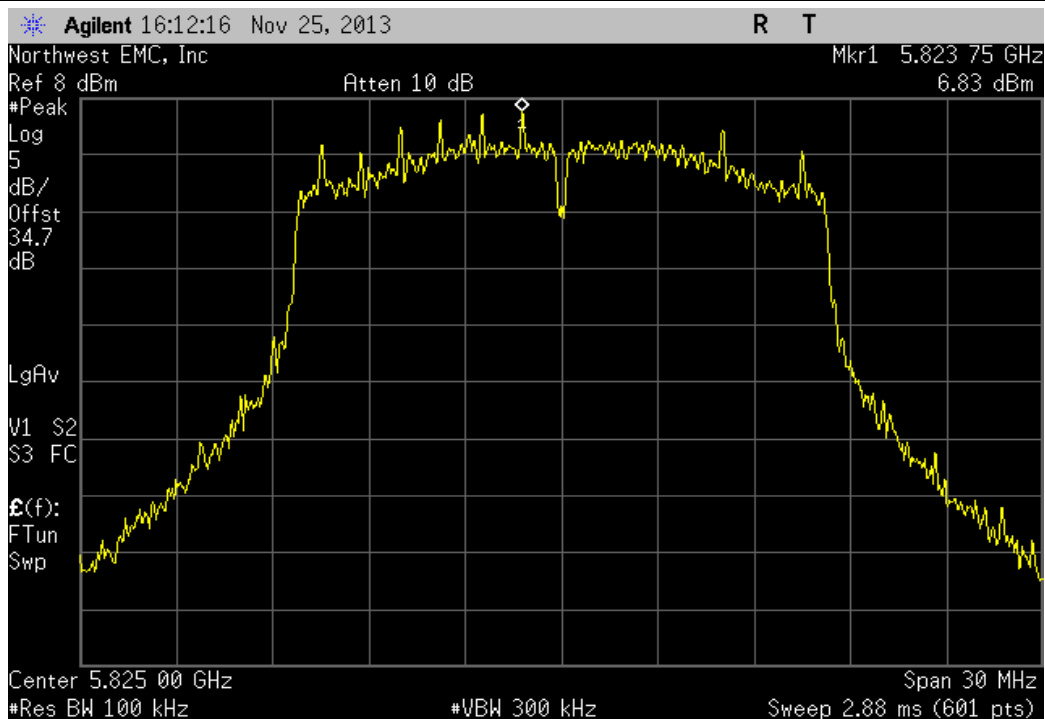
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	7.806	-15.2	-7.394	8	Pass



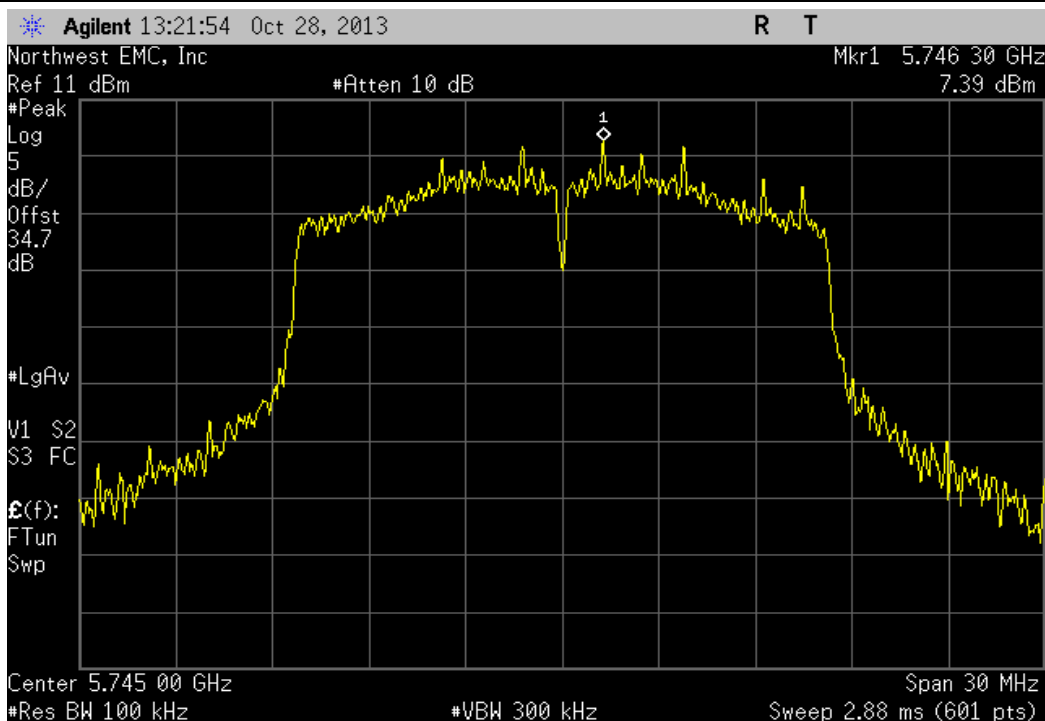
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	6.953	-15.2	-8.247	8	Pass



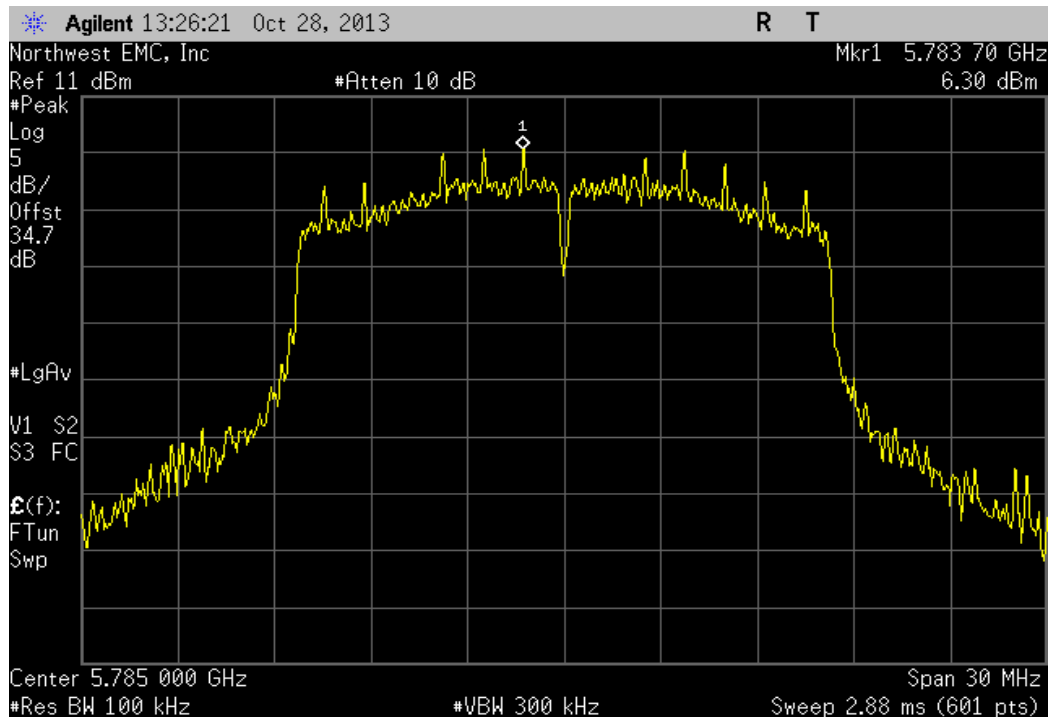
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	6.83	-15.2	-8.37	8	Pass	



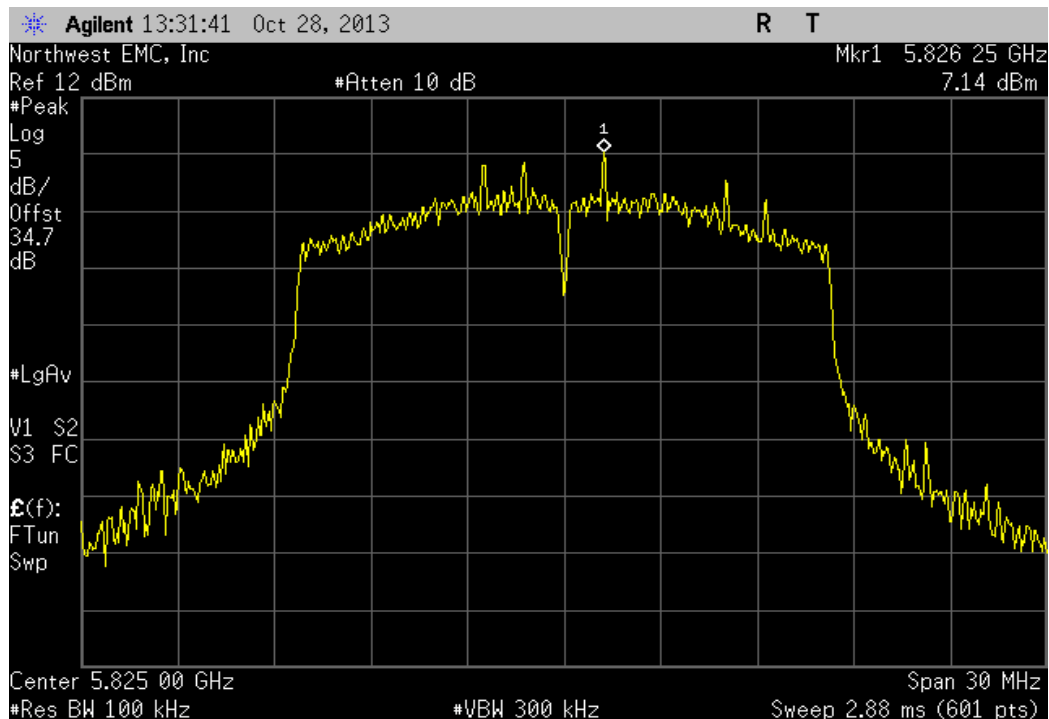
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	7.393	-15.2	-7.807	8	Pass	



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	6.296	-15.2	-8.904	8	Pass	

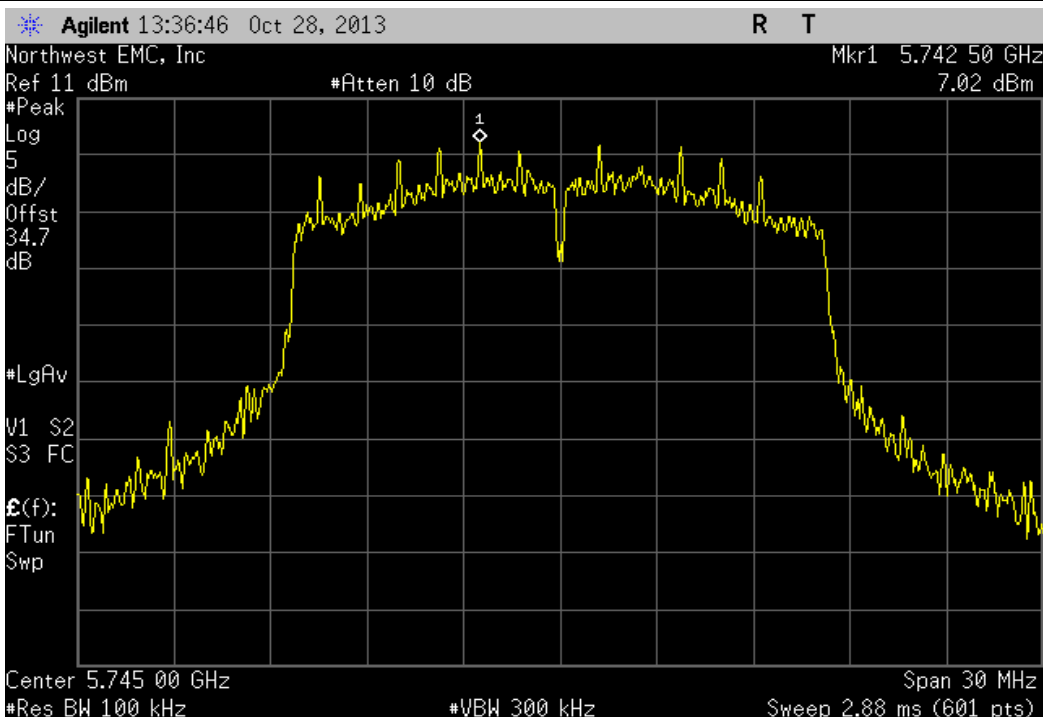


5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz						
	Value	dBm/100kHz	Value	Limit		
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	Result	
	7.136	-15.2	-8.064	8	Pass	



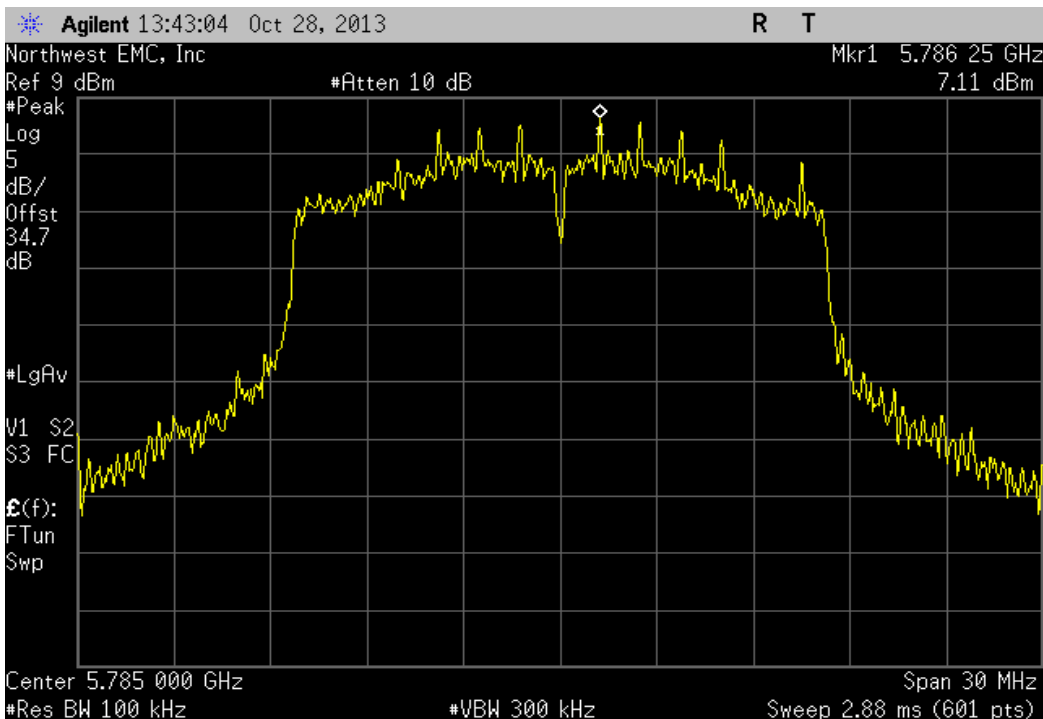
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

Value	dBm/100kHz	Value	Limit	Result
dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
7.024	-15.2	-8.176	8	Pass

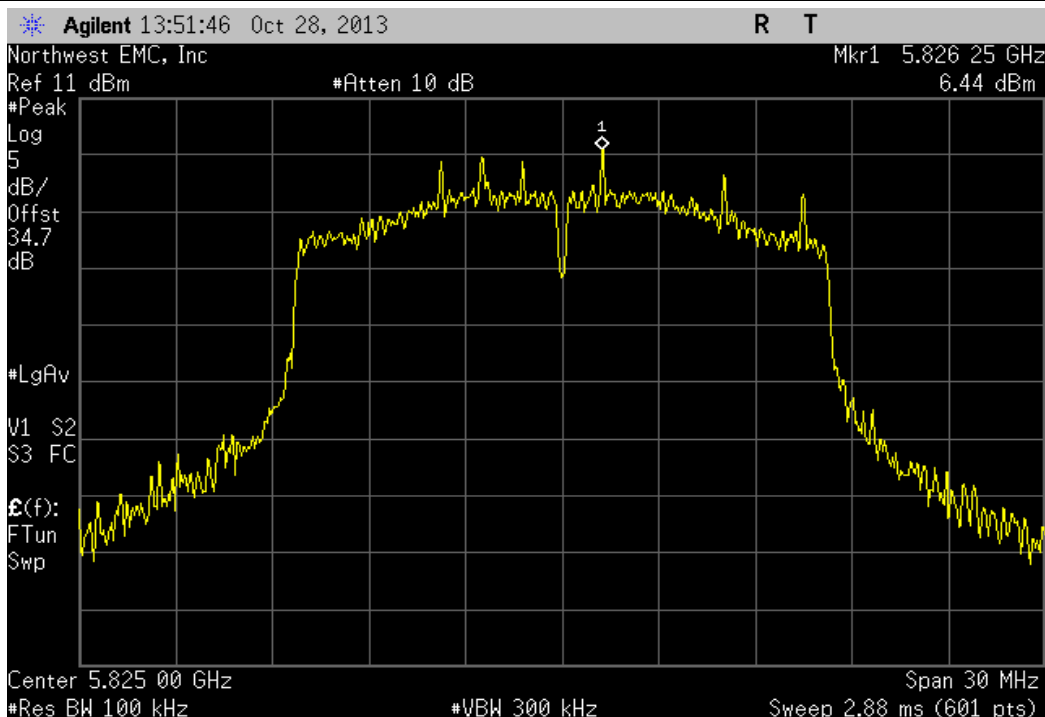


5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz

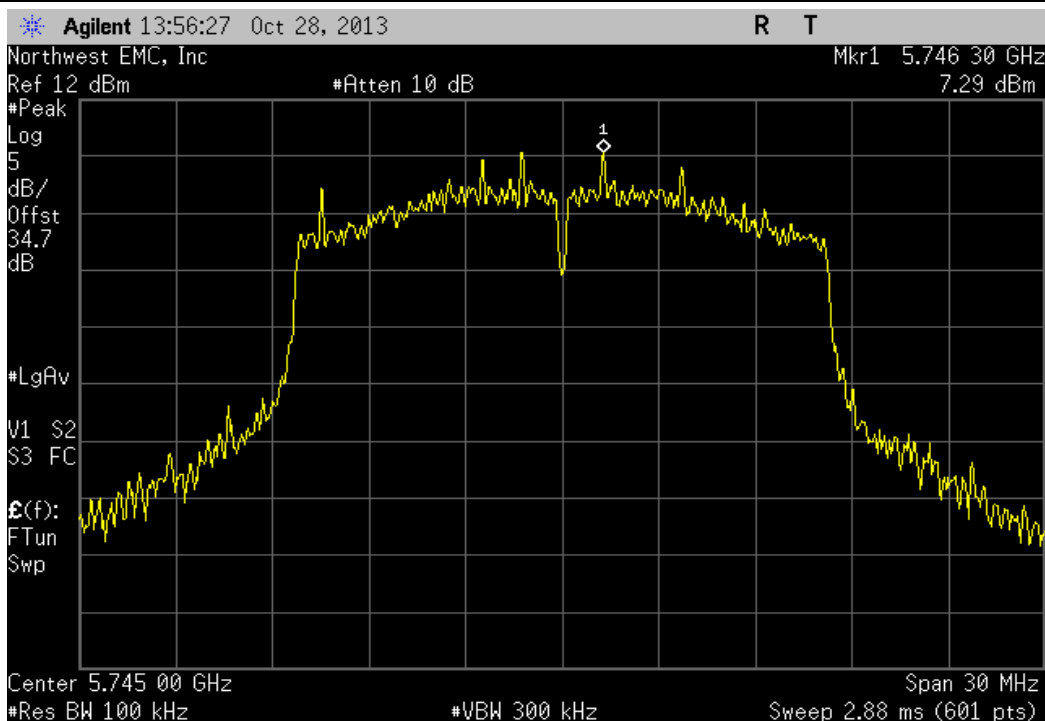
Value	dBm/100kHz	Value	Limit	Result
dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
7.112	-15.2	-8.088	8	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	6.443	-15.2	-8.757	8	Pass

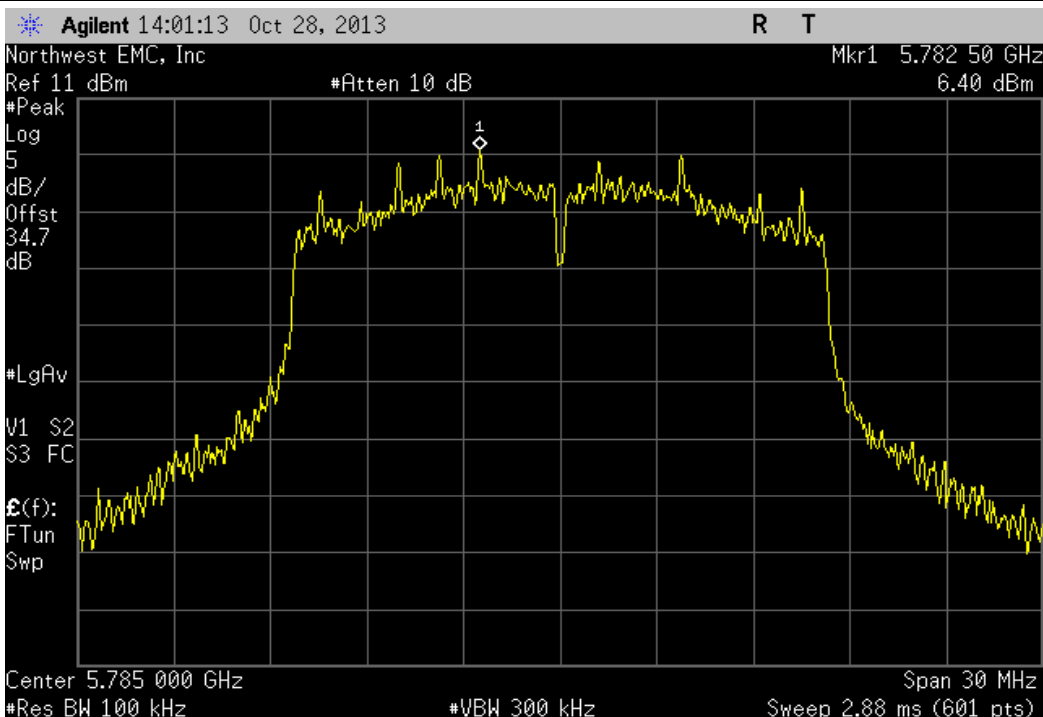


5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	7.288	-15.2	-7.912	8	Pass



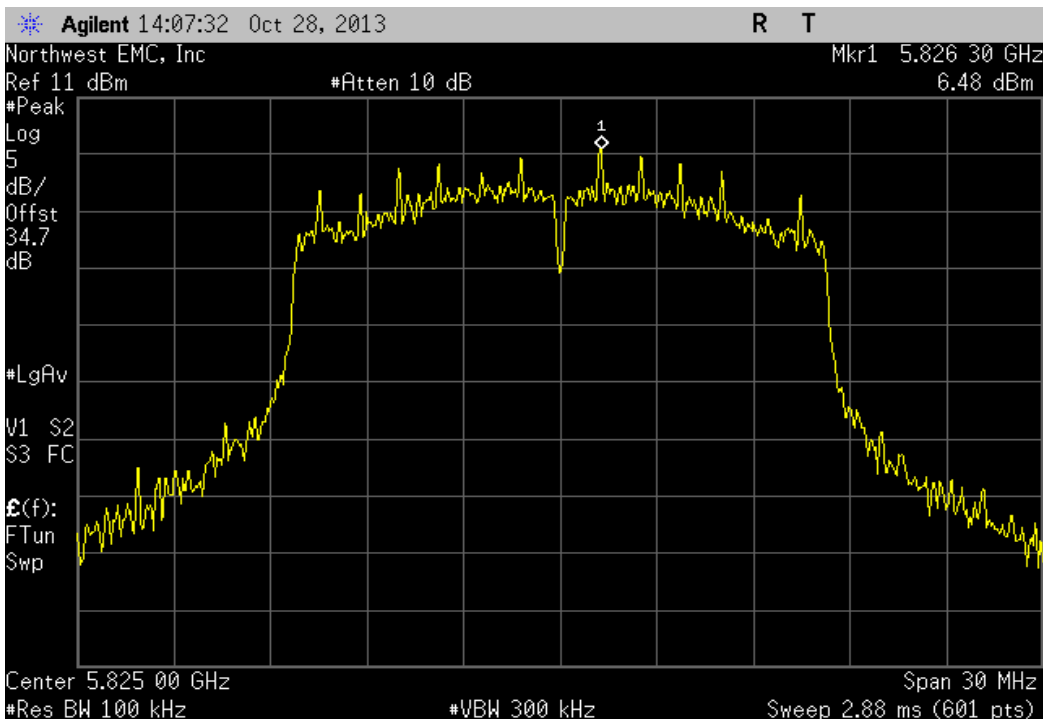
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

Value	dBm/100kHz	Value	Limit	Result
dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
6.403	-15.2	-8.797	8	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

Value	dBm/100kHz	Value	Limit	Result
dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
6.483	-15.2	-8.717	8	Pass



Occupied Bandwidth

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 26 dB (99.9%) 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.

Power Setting by Band:

2412MHz – 2462MHz, Power setting of 21000

5745MHz – 5825MHz, Power setting of 21000



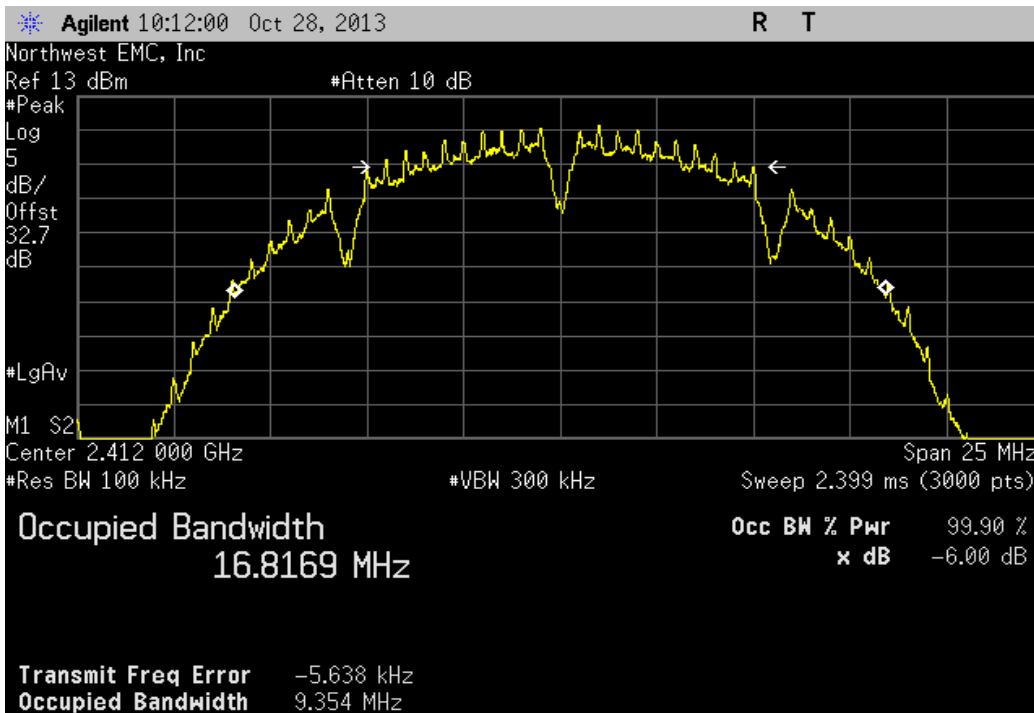
Occupied Bandwidth

XMit 2013.08.15
PsaTx 2013.07.11

EUT: The EGG		Work Order: INSD0001
Serial Number: 99		Date: 11/05/13
Customer: Intel Corporation		Temperature: 22.2°C
Attendees: Phil Auzas		Humidity: 42%
Project: None		Barometric Pres.: 1015
Tested by: Brandon Hobbs		Power: 4 VDC
TEST SPECIFICATIONS		Job Site: EV06
FCC 15.247:2013		Test Method
		ANSI C63.10:2009
COMMENTS		
The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.		
DEVIATIONS FROM TEST STANDARD		
None		
Configuration #	2	Signature 
		Value Limit Result
2400 MHz - 2483.5 MHz Band		
802.11(b) 1 Mbps		
Low Channel 1, 2412 MHz		9.354 MHz > 500 kHz Pass
Mid Channel 6, 2437 MHz		8.963 MHz > 500 kHz Pass
High Channel 11, 2462 MHz		8.595 MHz > 500 kHz Pass
802.11(b) 11 Mbps		
Low Channel 1, 2412 MHz		9.912 MHz > 500 kHz Pass
Mid Channel 6, 2437 MHz		9.051 MHz > 500 kHz Pass
High Channel 11, 2462 MHz		9.044 MHz > 500 kHz Pass
802.11(g) 6 Mbps		
Low Channel 1, 2412 MHz		14.342 MHz > 500 kHz Pass
Mid Channel 6, 2437 MHz		13.472 MHz > 500 kHz Pass
High Channel 11, 2462 MHz		15.139 MHz > 500 kHz Pass
802.11(g) 36 Mbps		
Low Channel 1, 2412 MHz		14.117 MHz > 500 kHz Pass
Mid Channel 6, 2437 MHz		13.012 MHz > 500 kHz Pass
High Channel 11, 2462 MHz		15.036 MHz > 500 kHz Pass
802.11(g) 54 Mbps		
Low Channel 1, 2412 MHz		14.09 MHz > 500 kHz Pass
Mid Channel 6, 2437 MHz		15.282 MHz > 500 kHz Pass
High Channel 11, 2462 MHz		13.922 MHz > 500 kHz Pass
802.11(n) MCS0		
Low Channel 1, 2412 MHz		15.221 MHz > 500 kHz Pass
Mid Channel 6, 2437 MHz		14.045 MHz > 500 kHz Pass
High Channel 11, 2462 MHz		12.778 MHz > 500 kHz Pass
802.11(n) MCS7		
Low Channel 1, 2412 MHz		14.731 MHz > 500 kHz Pass
Mid Channel 6, 2437 MHz		14.257 MHz > 500 kHz Pass
High Channel 11, 2462 MHz		15.001 MHz > 500 kHz Pass
5725 MHz - 5850 MHz Band		
802.11(a) 6 Mbps		
Low Channel 149, 5745 MHz		15.513 MHz > 500 kHz Pass
Mid Channel 157, 5785 MHz		14.688 MHz > 500 kHz Pass
High Channel 165, 5825 MHz		15.775 MHz > 500 kHz Pass
802.11(a) 36 Mbps		
Low Channel 149, 5745 MHz		16.295 MHz > 500 kHz Pass
Mid Channel 157, 5785 MHz		13.983 MHz > 500 kHz Pass
High Channel 165, 5825 MHz		14.624 MHz > 500 kHz Pass
802.11(a) 54 Mbps		
Low Channel 149, 5745 MHz		14.888 MHz > 500 kHz Pass
Mid Channel 157, 5785 MHz		16.102 MHz > 500 kHz Pass
High Channel 165, 5825 MHz		12.919 MHz > 500 kHz Pass
802.11(n) MCS0 - UNII		
Low Channel 149, 5745 MHz		16.21 MHz > 500 kHz Pass
Mid Channel 157, 5785 MHz		15.182 MHz > 500 kHz Pass
High Channel 165, 5825 MHz		13.791 MHz > 500 kHz Pass
802.11(n) MCS7 - UNII		
Low Channel 149, 5745 MHz		16.08 MHz > 500 kHz Pass
Mid Channel 157, 5785 MHz		11.399 MHz > 500 kHz Pass
High Channel 165, 5825 MHz		15.911 MHz > 500 kHz Pass

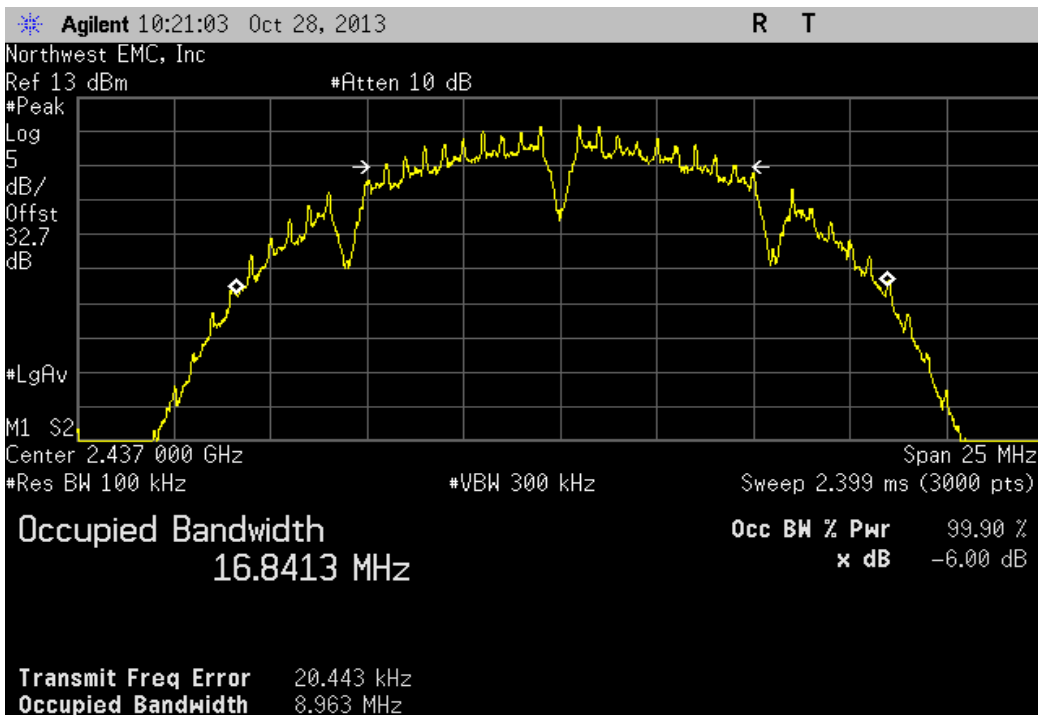
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
9.354 MHz	> 500 kHz	Pass

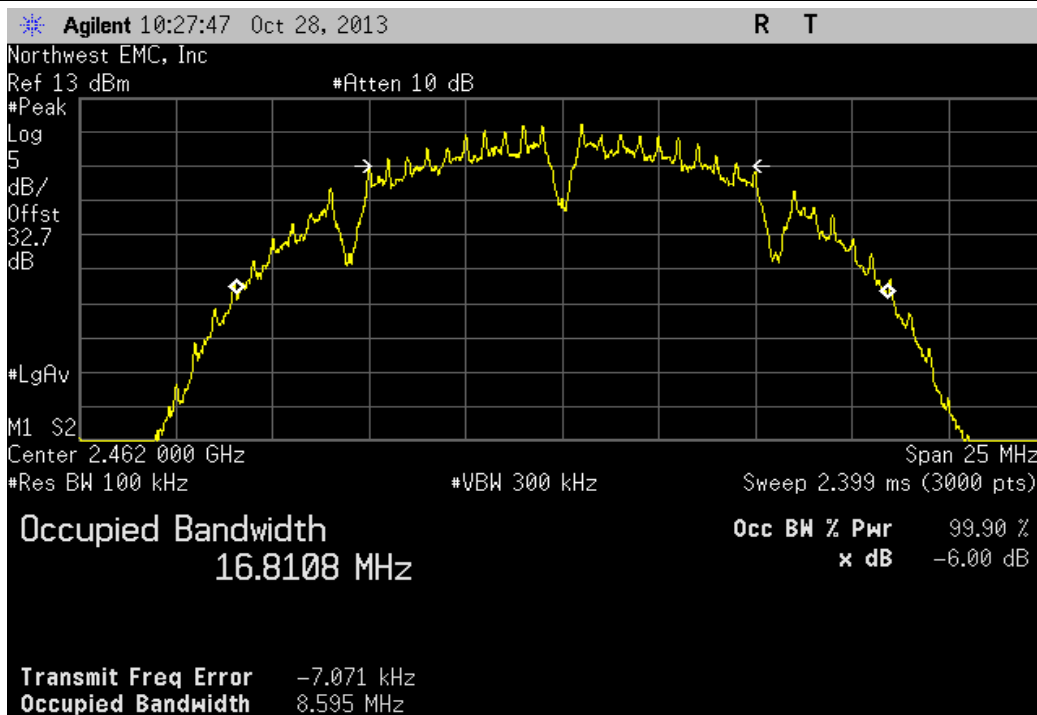


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

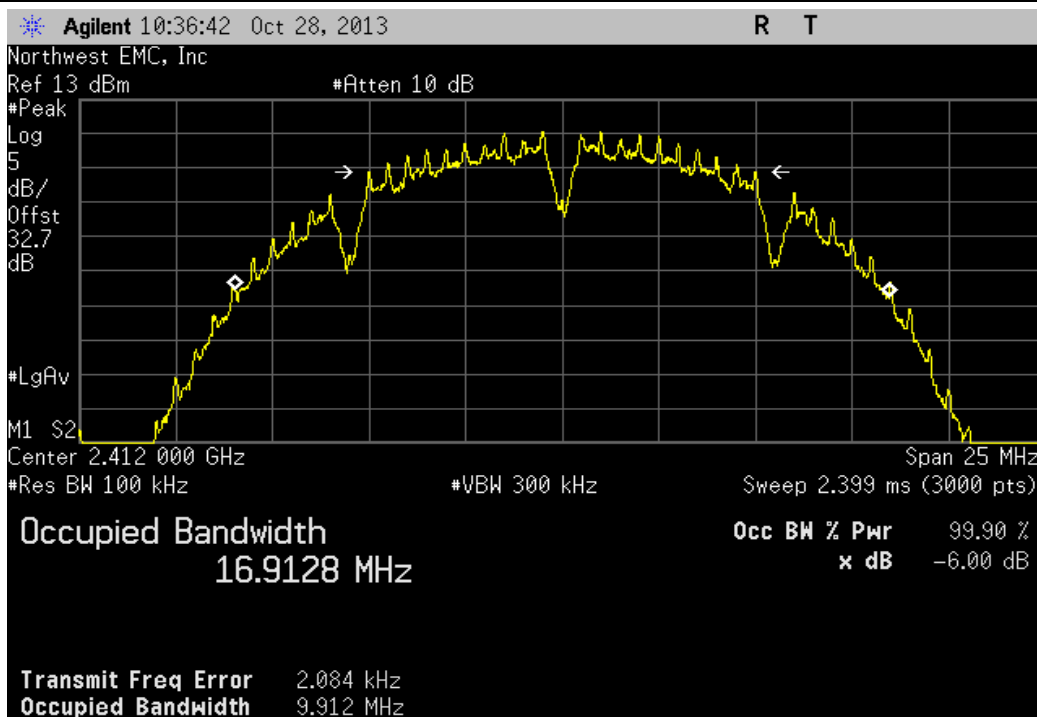
Value	Limit	Result
8.963 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz			
	Value	Limit	Result
	8.595 MHz	> 500 kHz	Pass

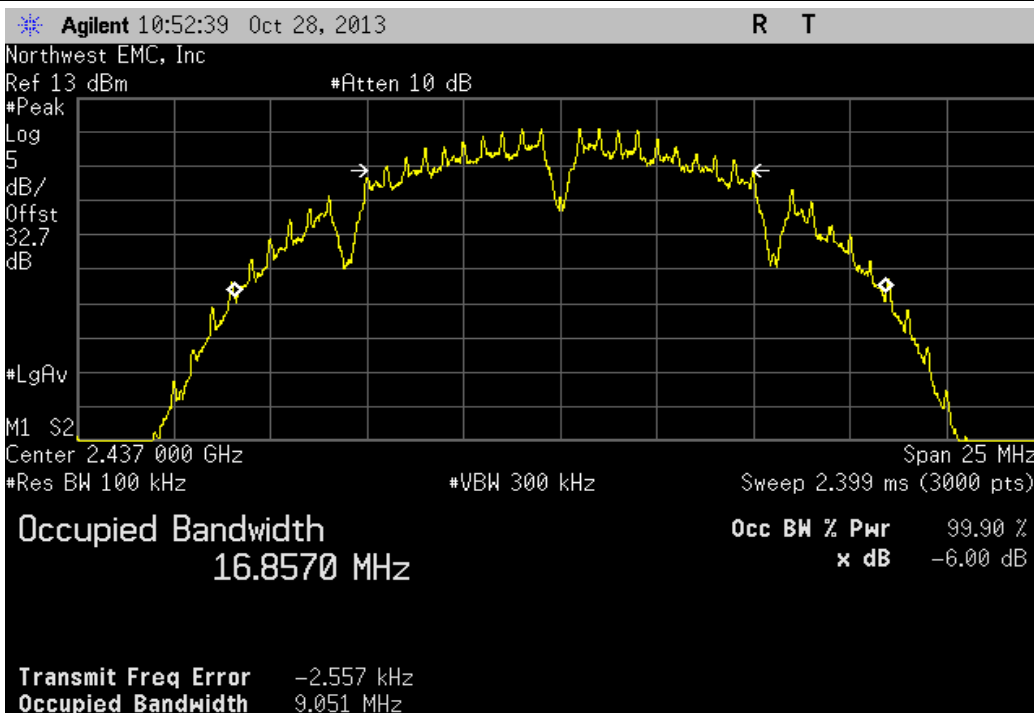


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz			
	Value	Limit	Result
	9.912 MHz	> 500 kHz	Pass



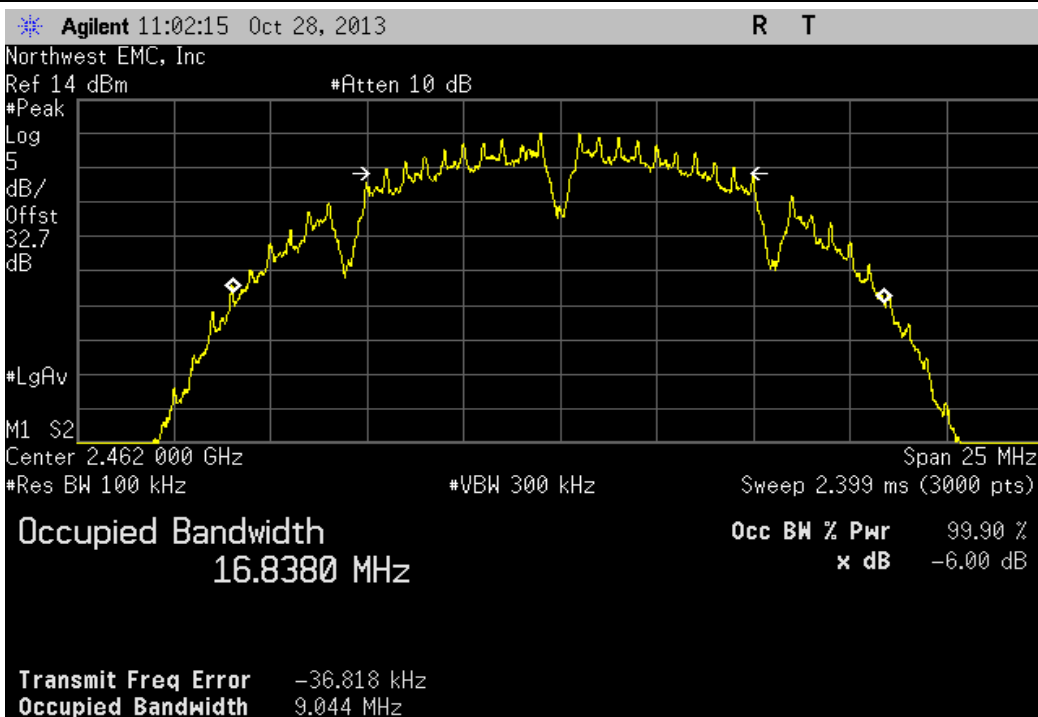
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
9.051 MHz	> 500 kHz	Pass



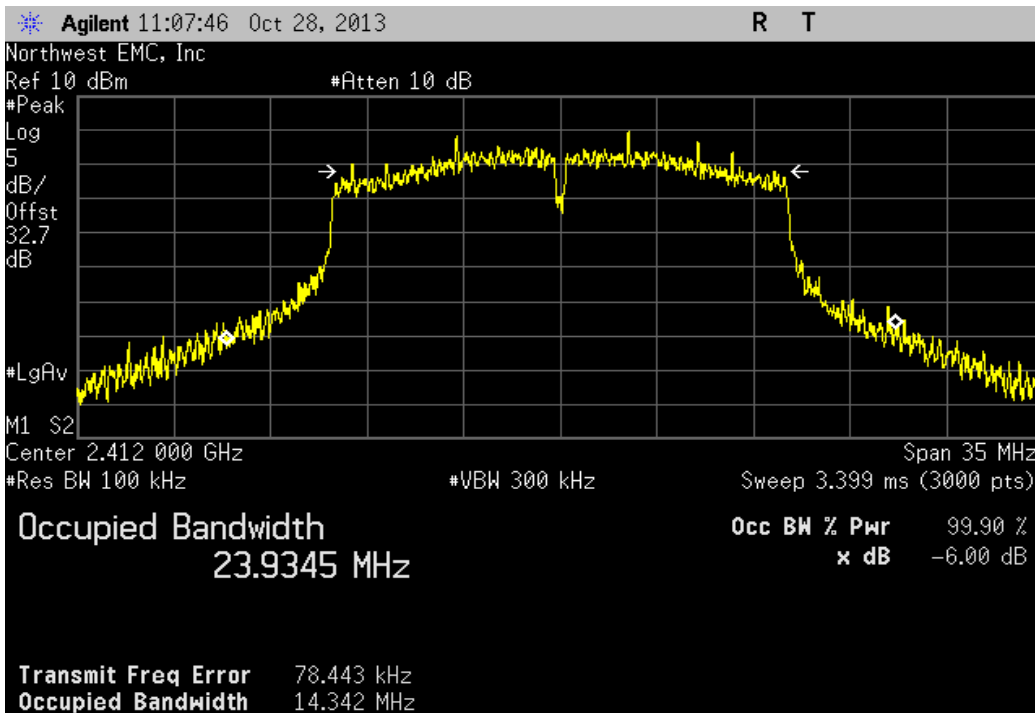
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
9.044 MHz	> 500 kHz	Pass



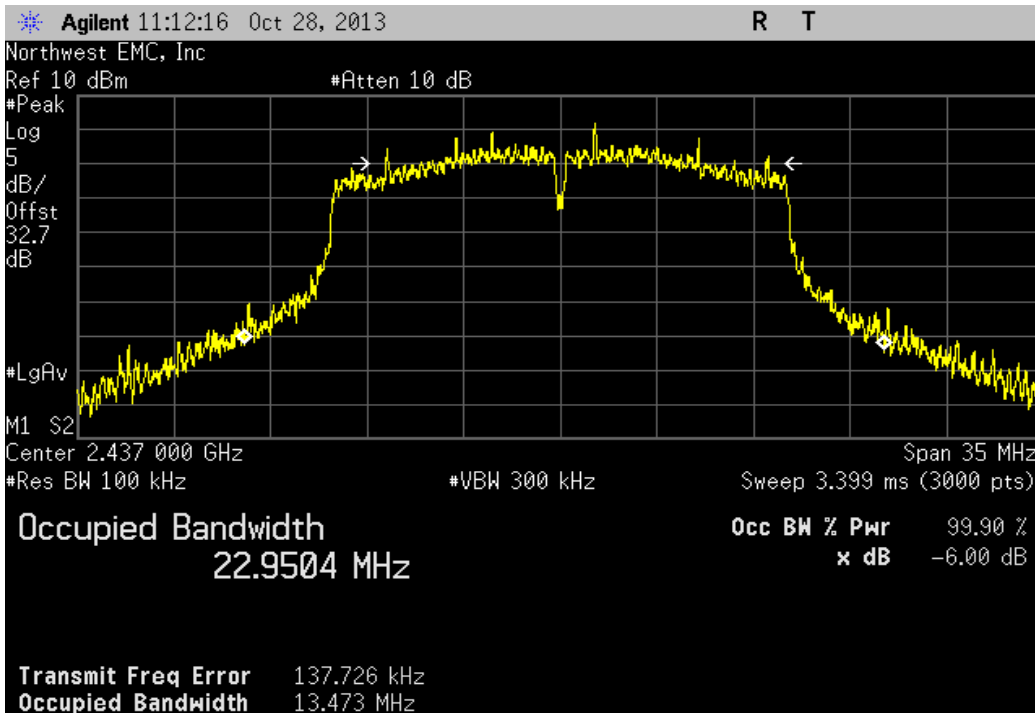
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
14.342 MHz	> 500 kHz	Pass



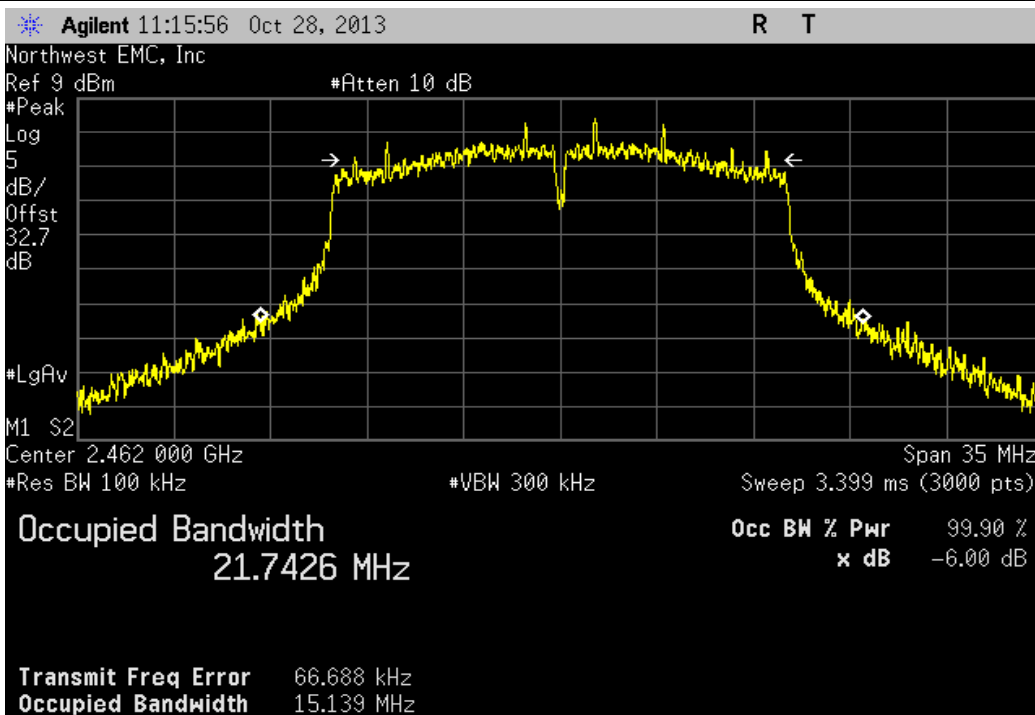
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
13.472 MHz	> 500 kHz	Pass



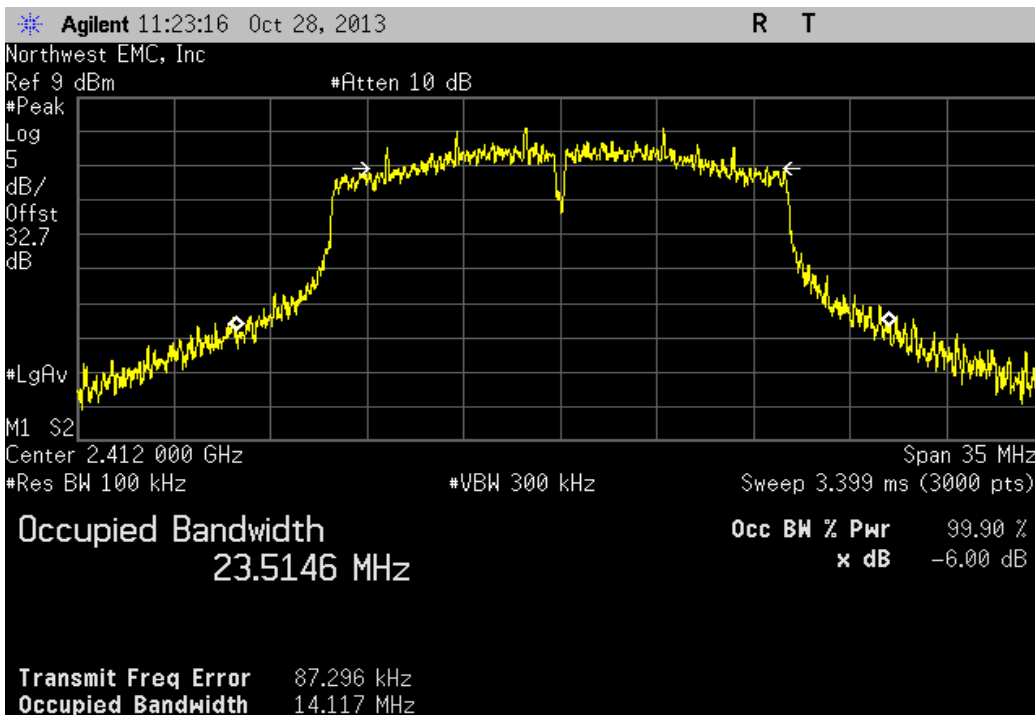
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
15.139 MHz	> 500 kHz	Pass



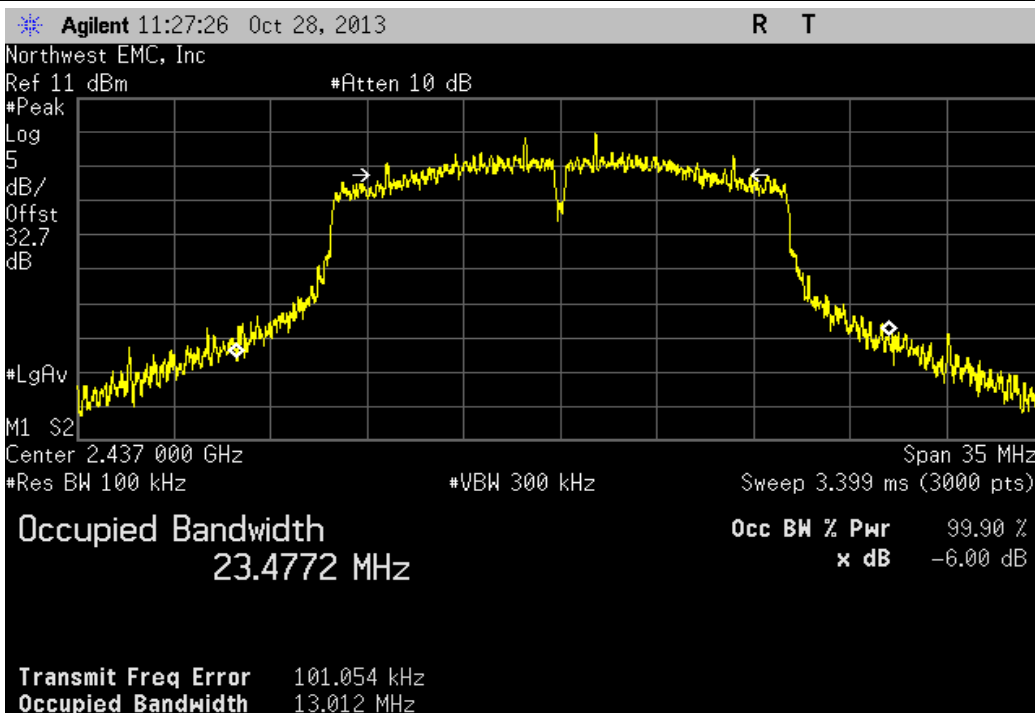
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
14.117 MHz	> 500 kHz	Pass



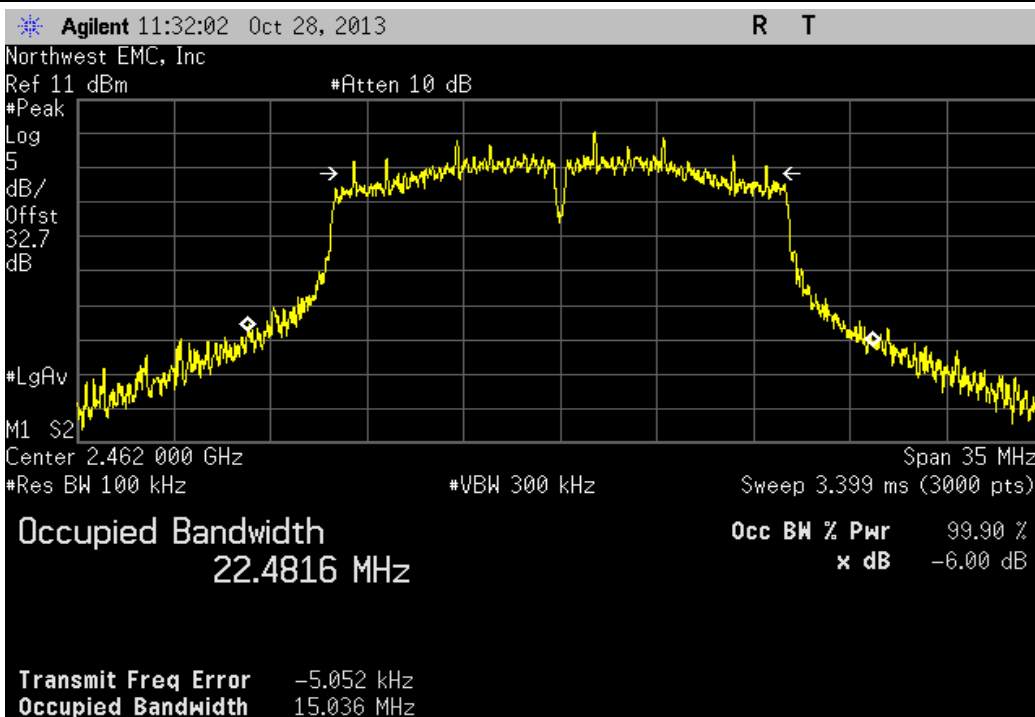
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
13.012 MHz	> 500 kHz	Pass



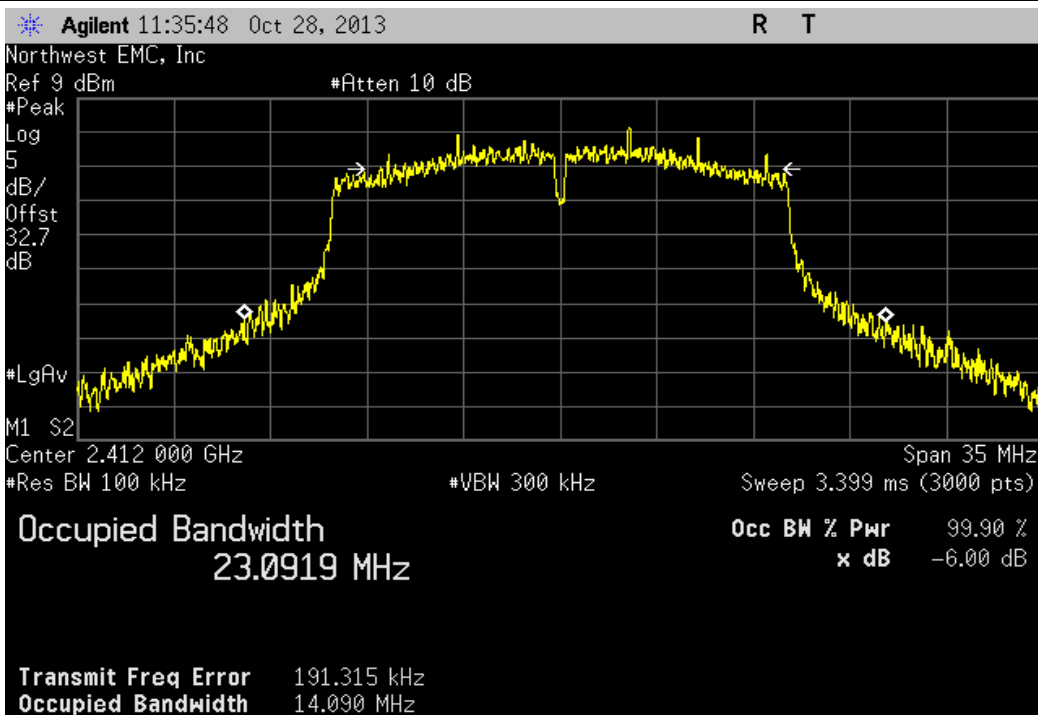
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
15.036 MHz	> 500 kHz	Pass



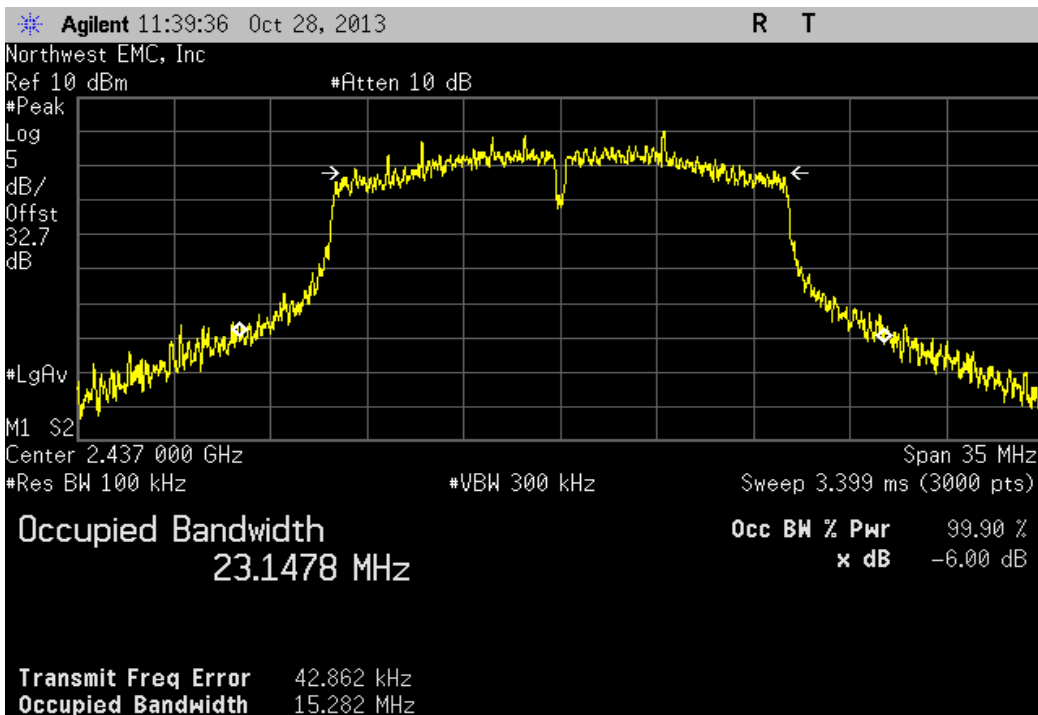
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
14.09 MHz	> 500 kHz	Pass



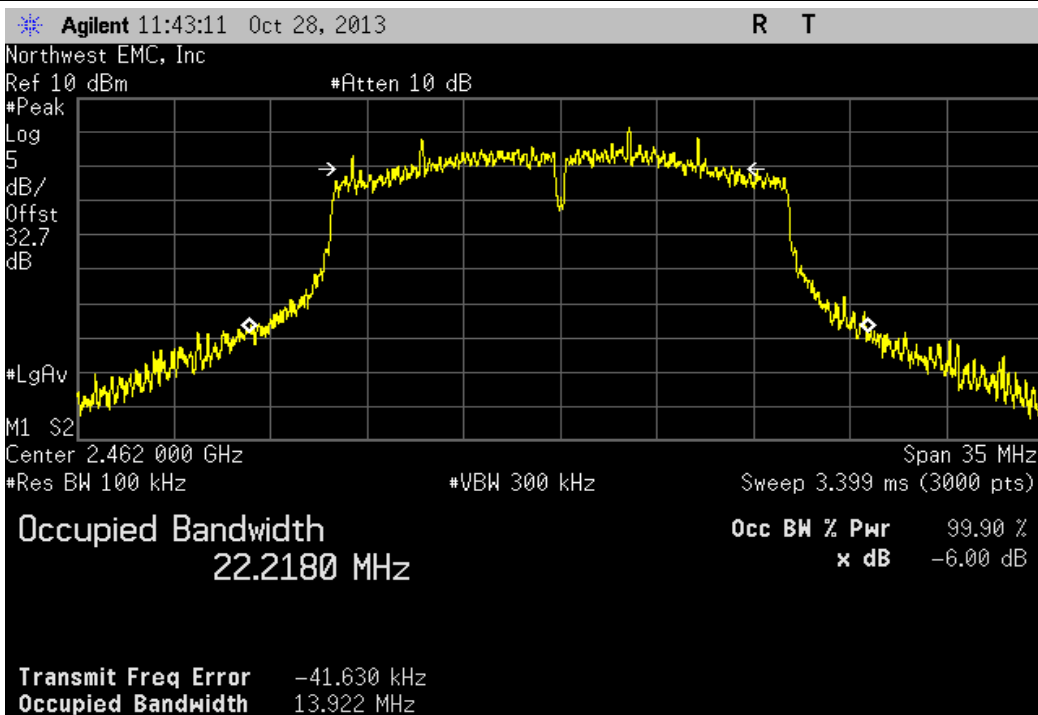
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
15.282 MHz	> 500 kHz	Pass



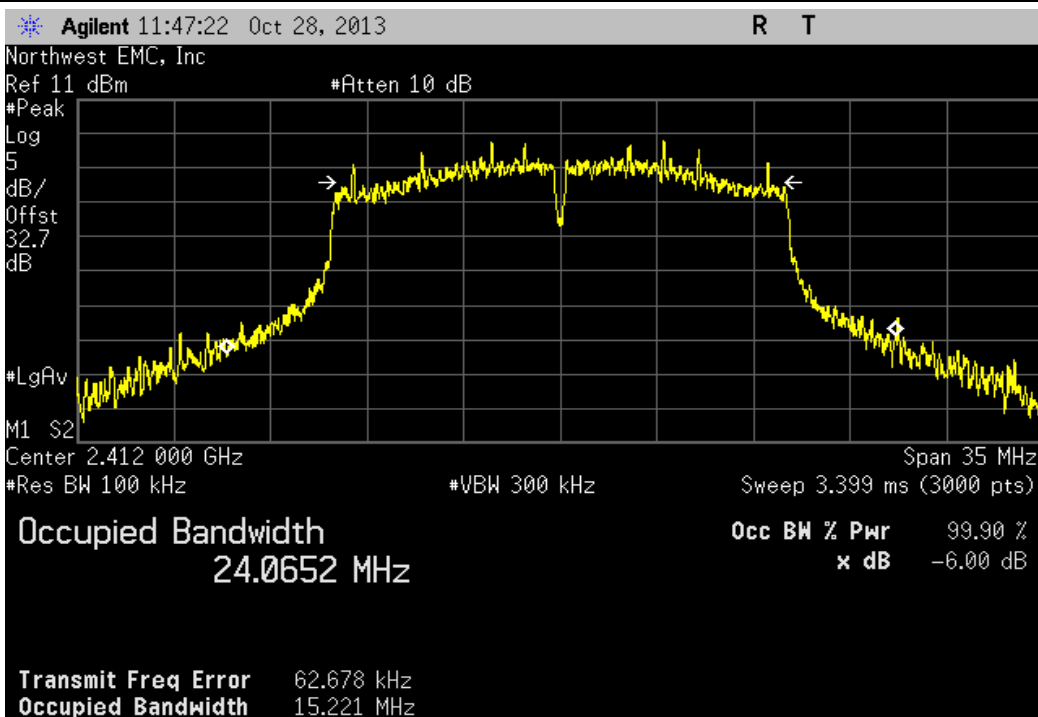
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
13.922 MHz	> 500 kHz	Pass



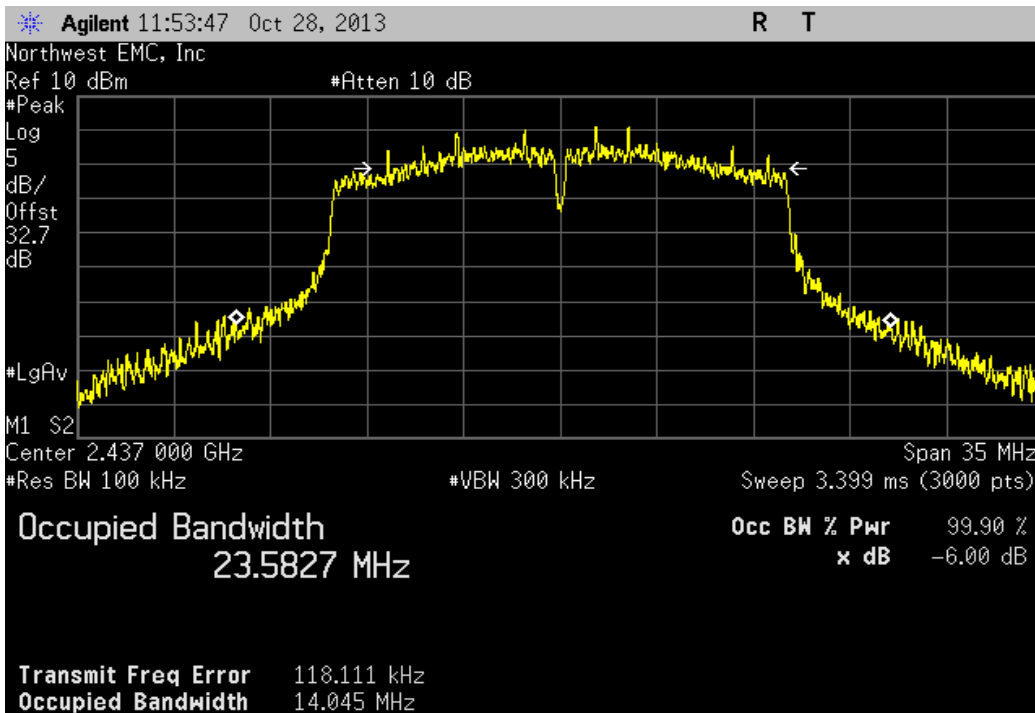
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value	Limit	Result
15.221 MHz	> 500 kHz	Pass



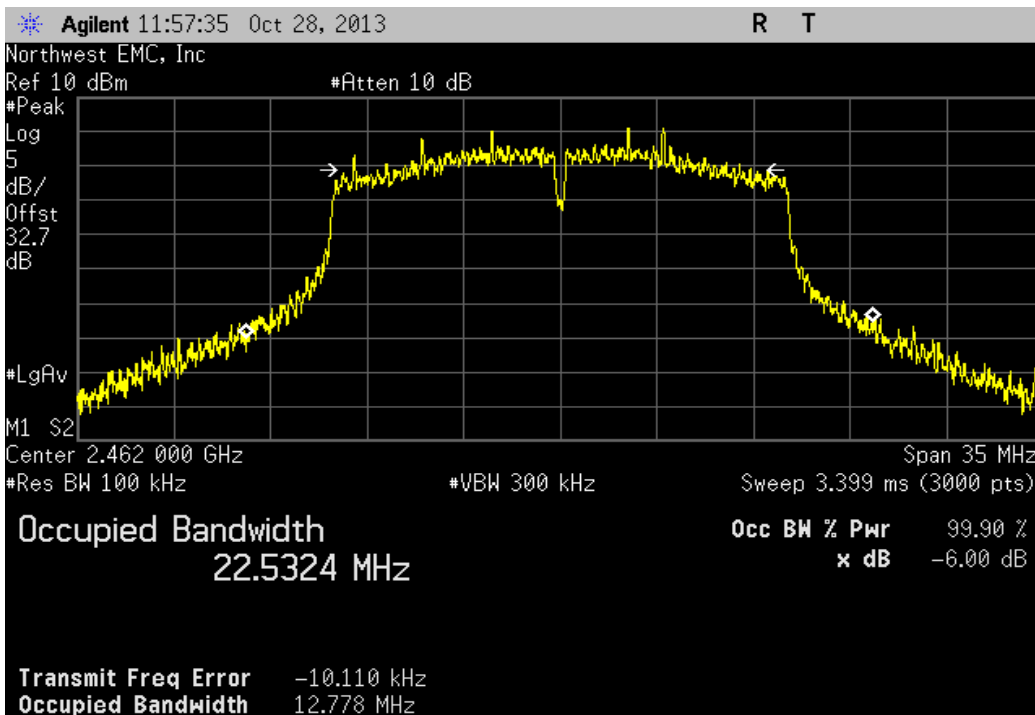
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

Value	Limit	Result
14.045 MHz	> 500 kHz	Pass



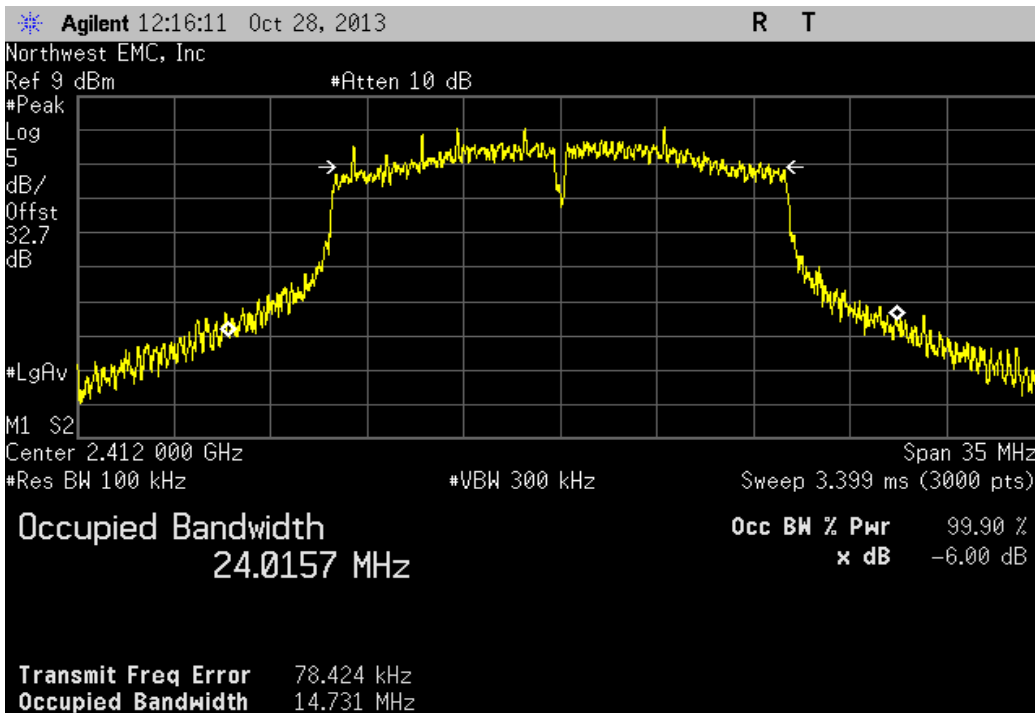
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value	Limit	Result
12.778 MHz	> 500 kHz	Pass



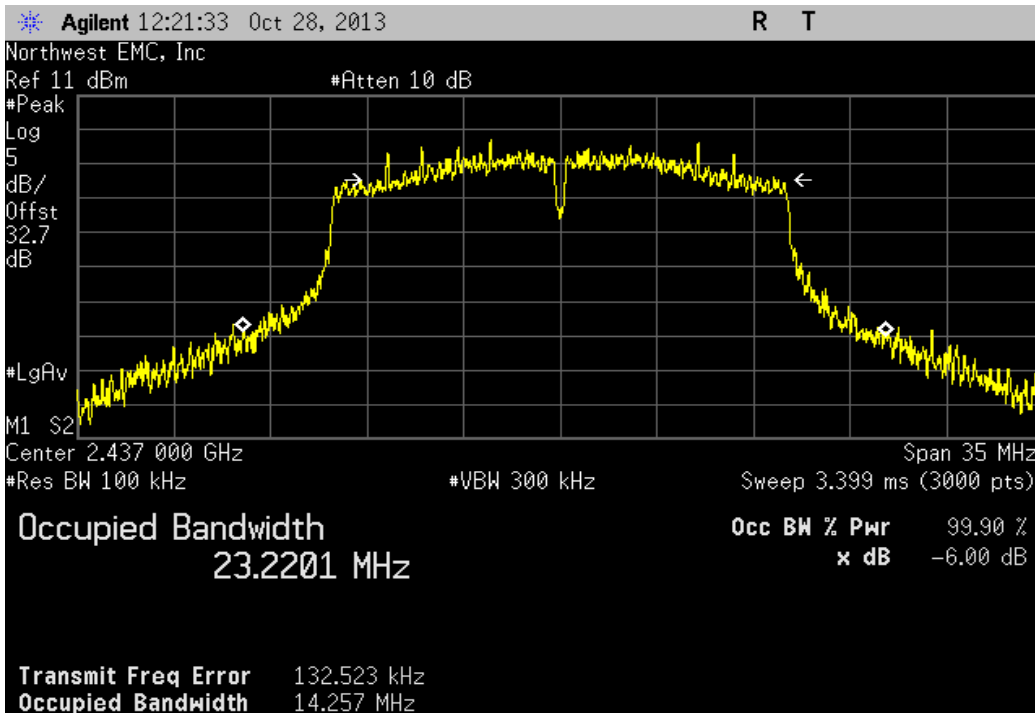
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit	Result
14.731 MHz	> 500 kHz	Pass



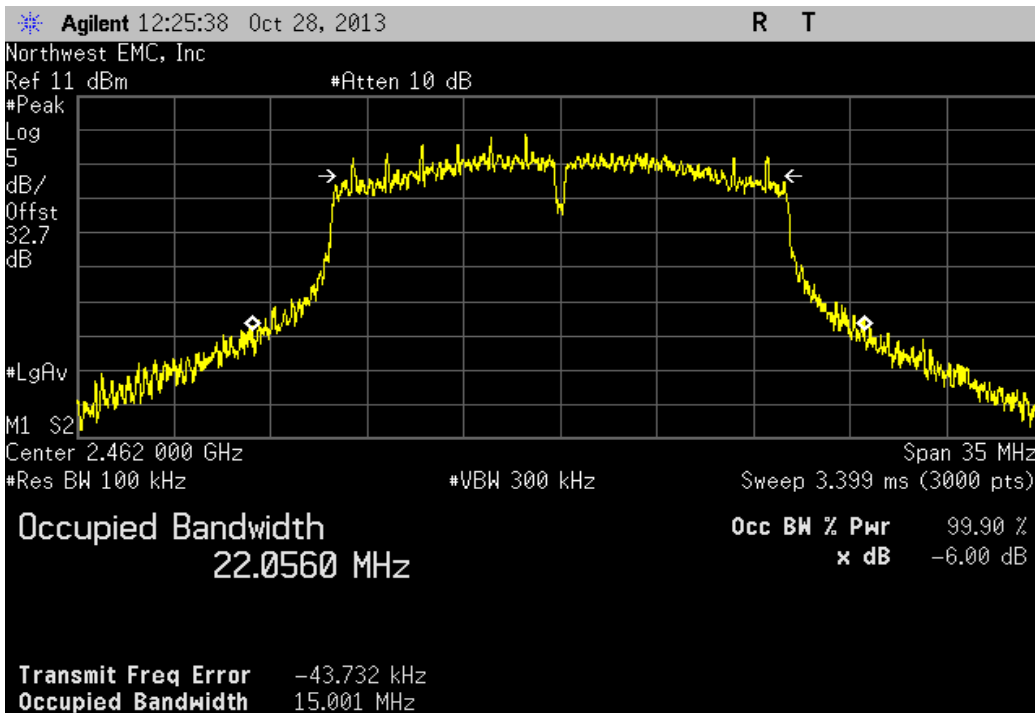
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

Value	Limit	Result
14.257 MHz	> 500 kHz	Pass



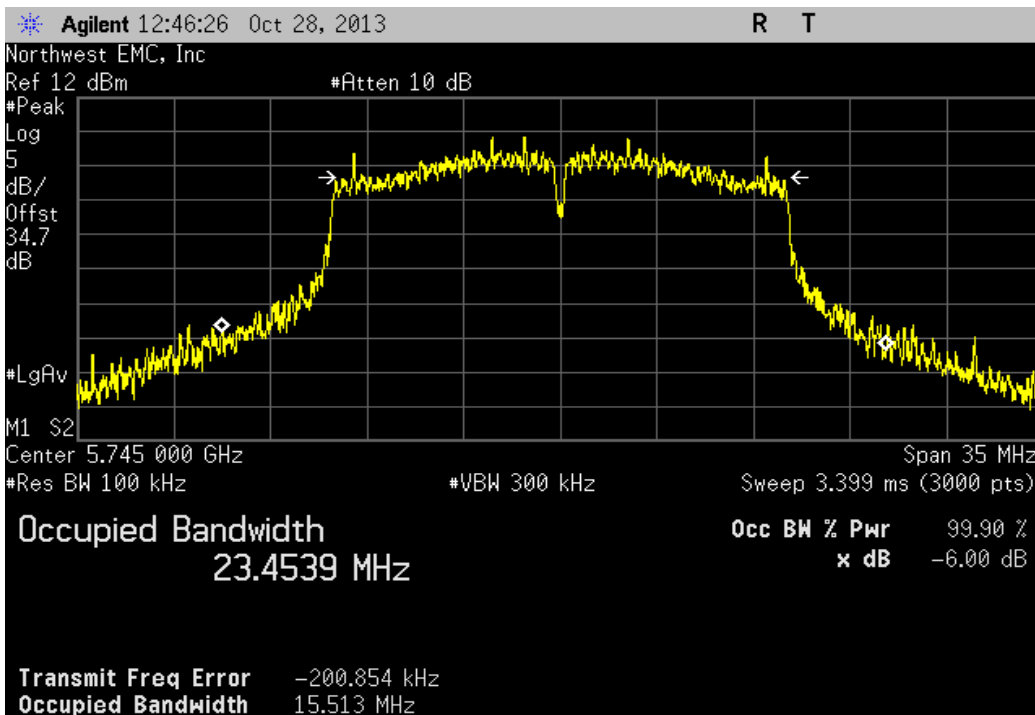
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit	Result
15.001 MHz	> 500 kHz	Pass



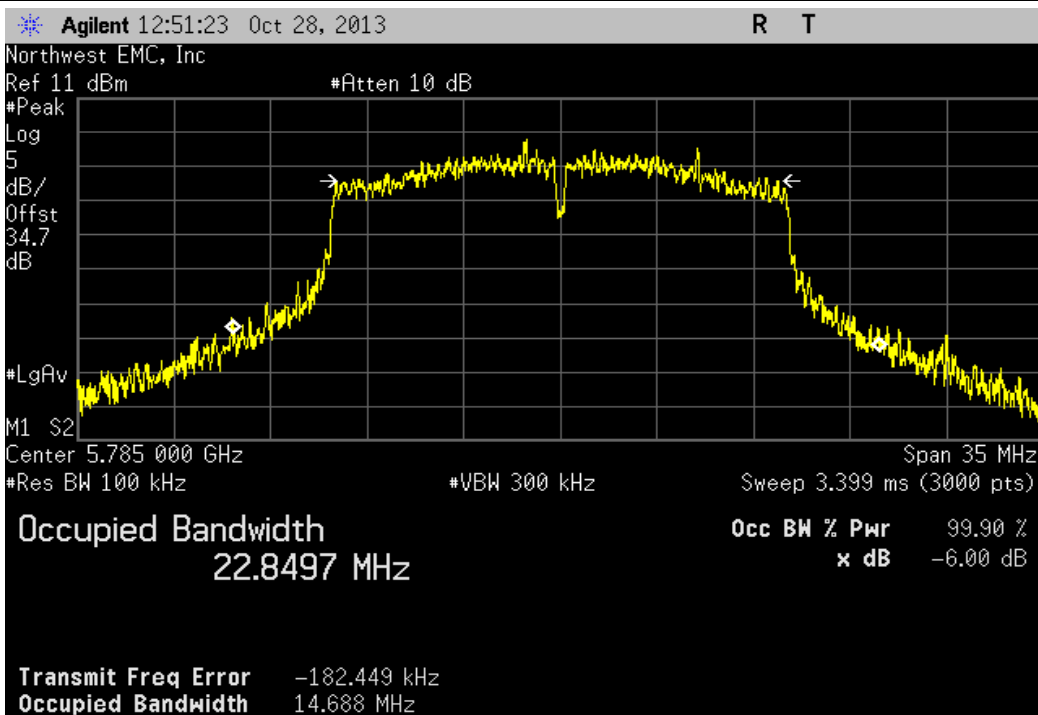
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
15.513 MHz	> 500 kHz	Pass



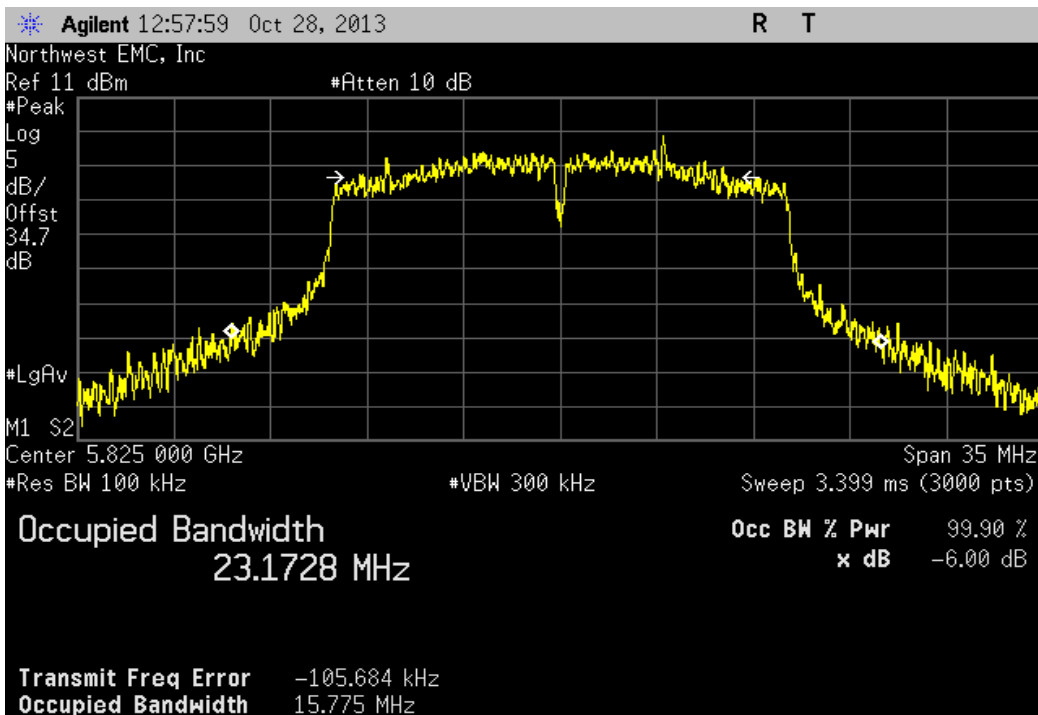
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
14.688 MHz	> 500 kHz	Pass



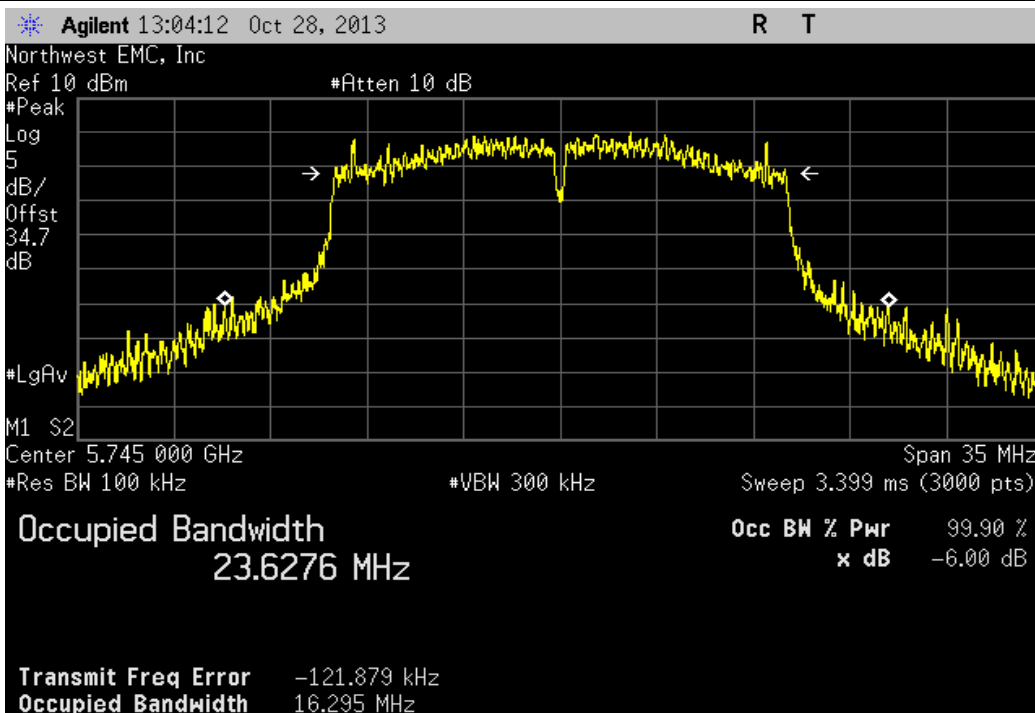
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
15.775 MHz	> 500 kHz	Pass



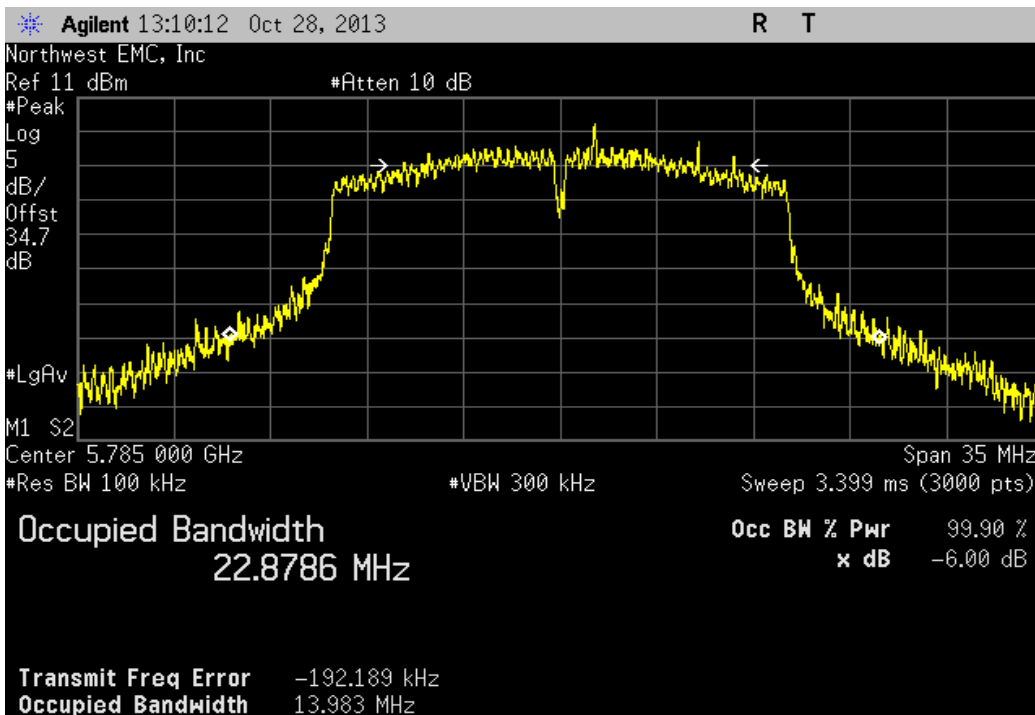
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
16.295 MHz	> 500 kHz	Pass



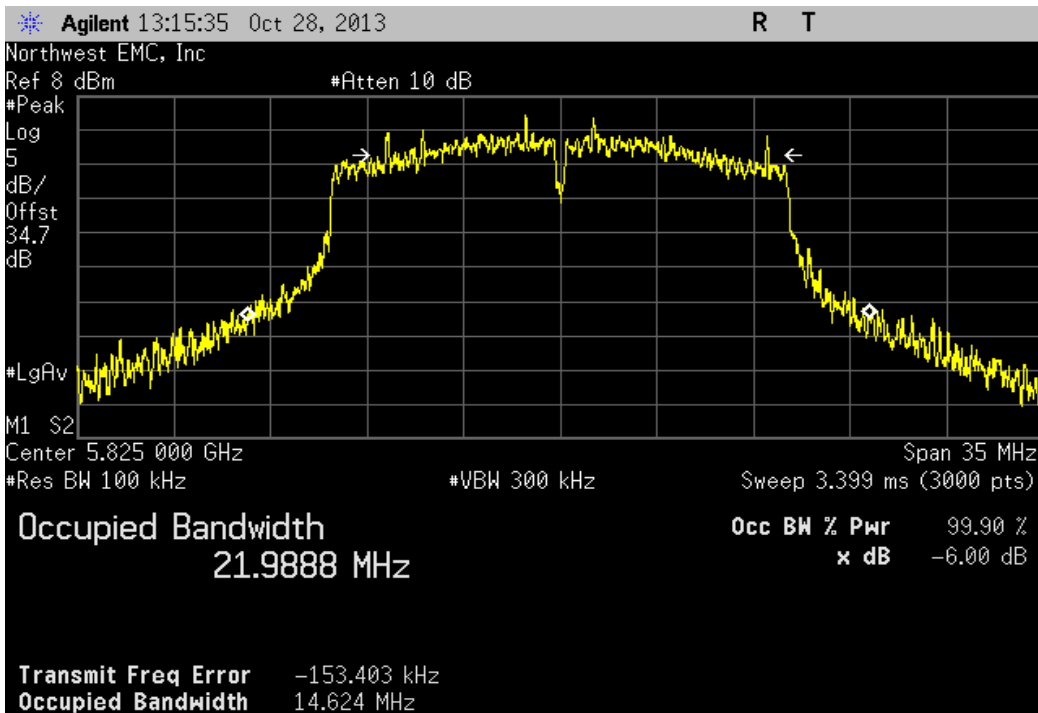
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
13.983 MHz	> 500 kHz	Pass



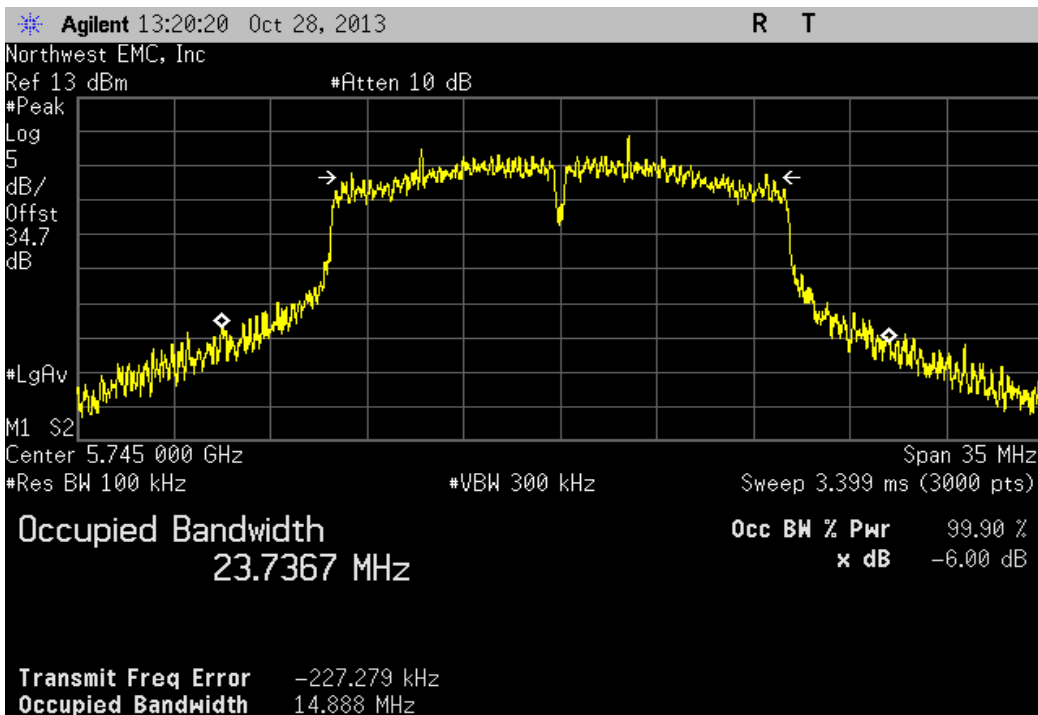
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
14.624 MHz	> 500 kHz	Pass



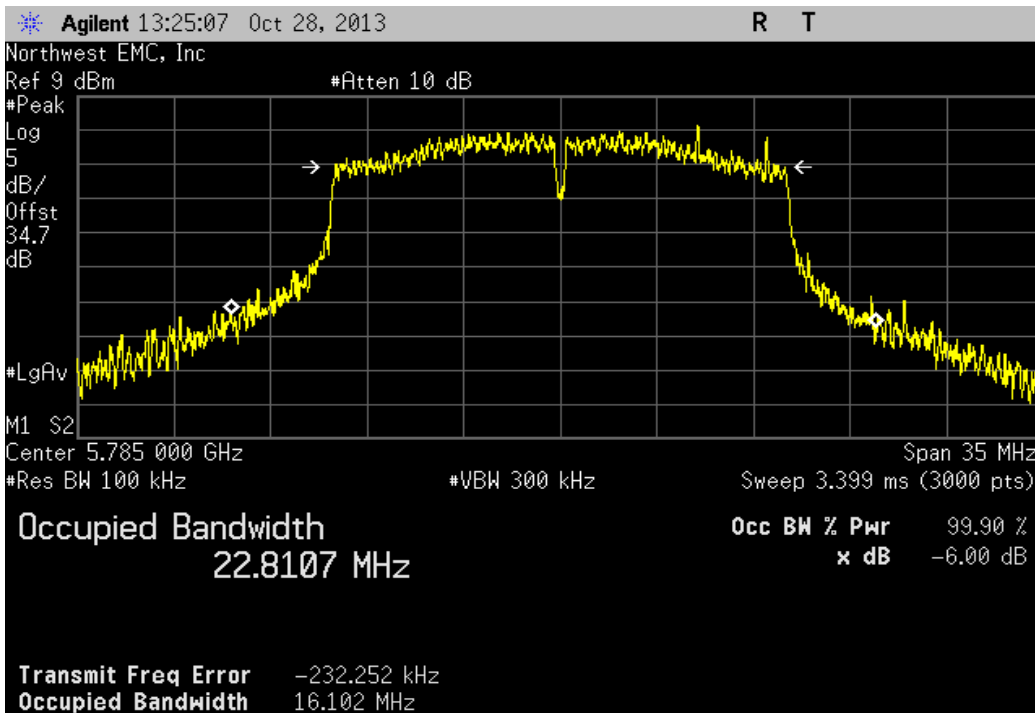
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
14.888 MHz	> 500 kHz	Pass



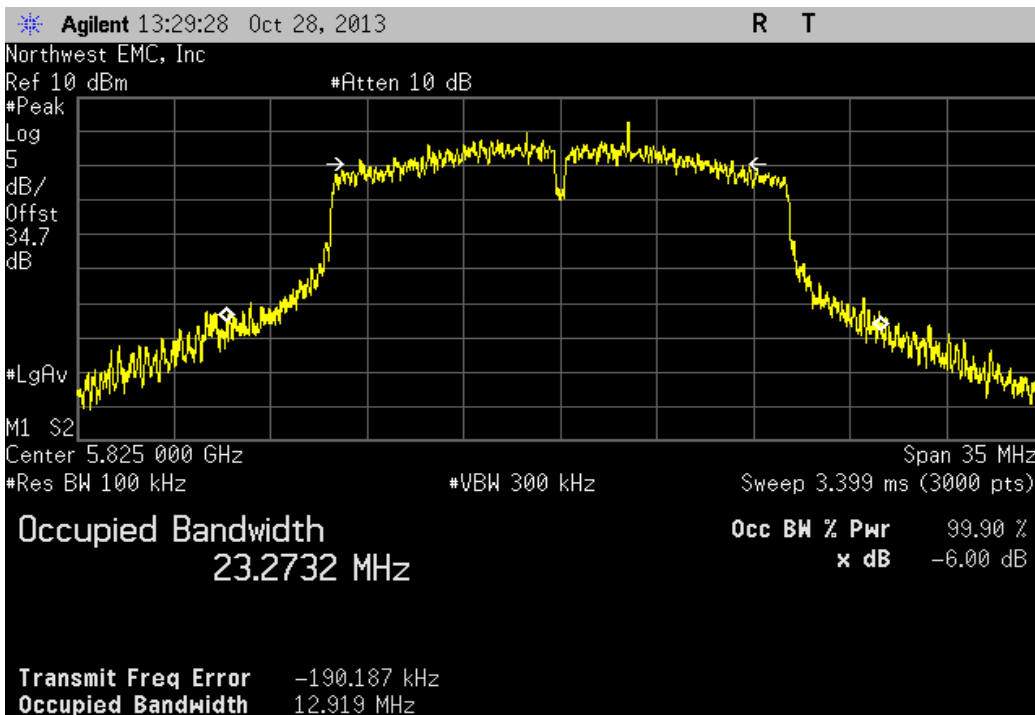
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

	Value	Limit	Result
	16.102 MHz	> 500 kHz	Pass



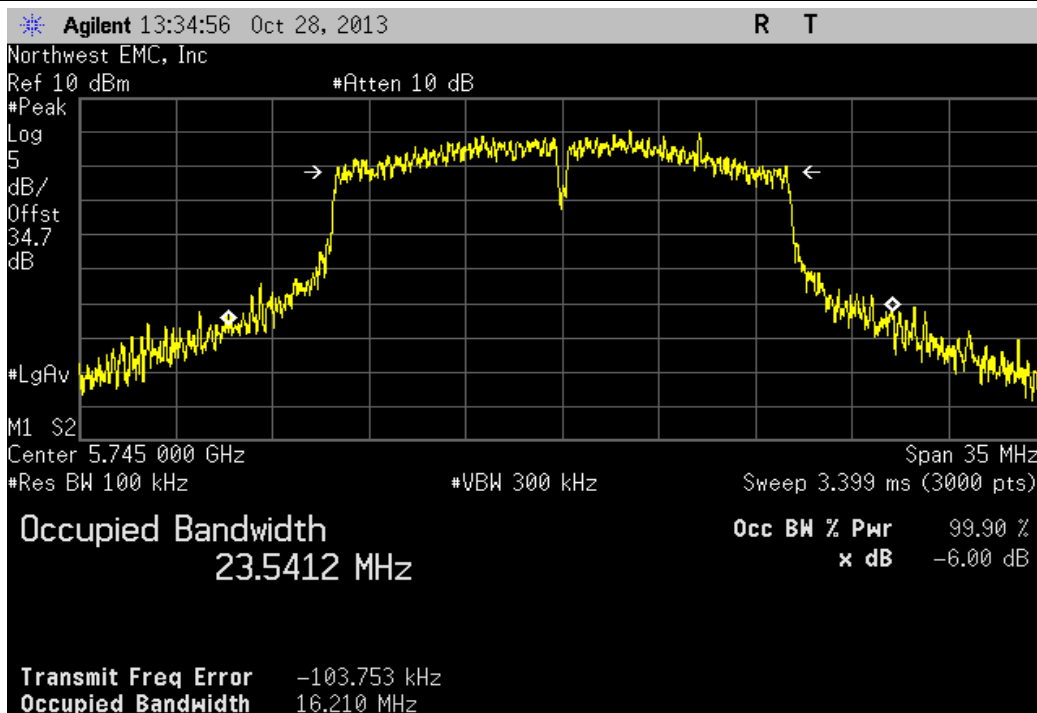
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

	Value	Limit	Result
	12.919 MHz	> 500 kHz	Pass



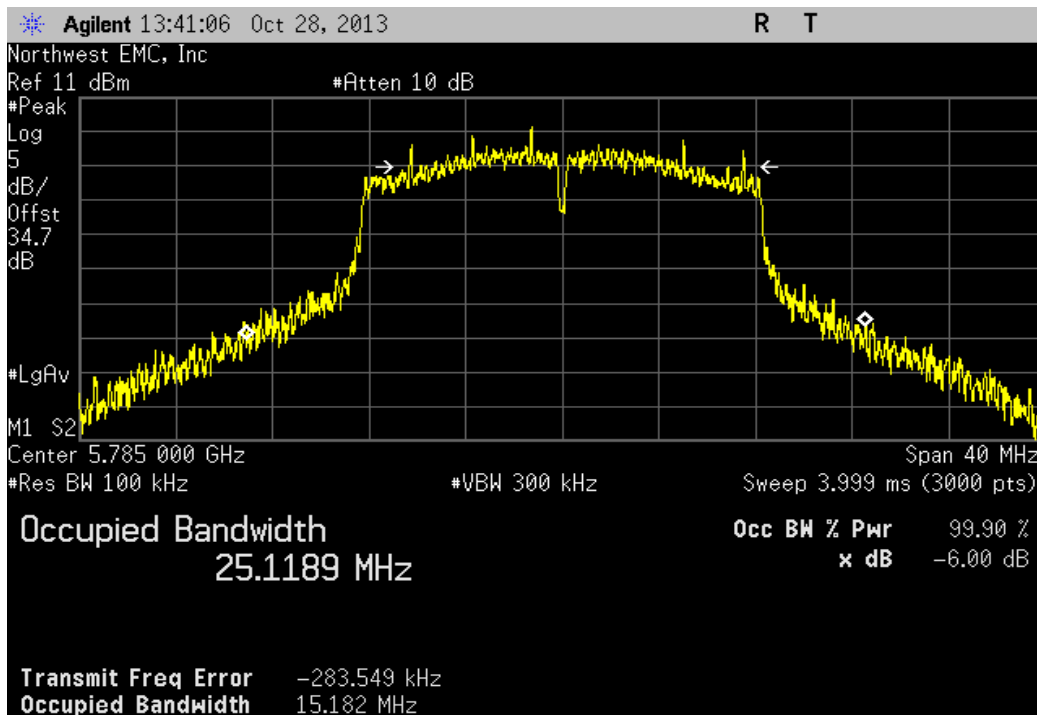
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
16.21 MHz	> 500 kHz	Pass



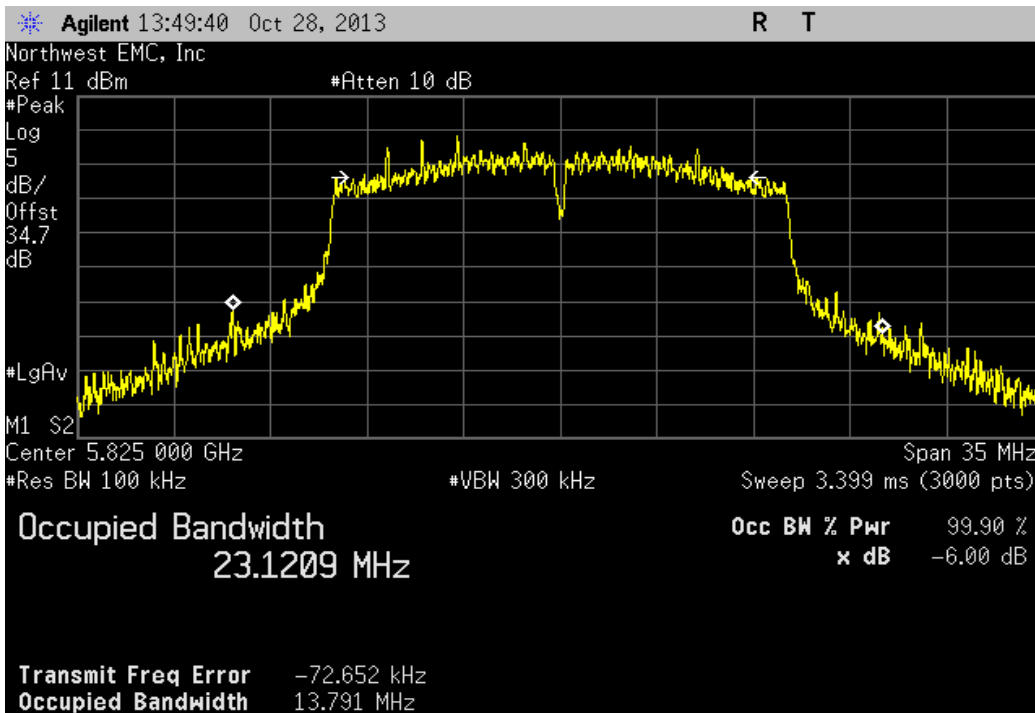
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz

Value	Limit	Result
15.182 MHz	> 500 kHz	Pass



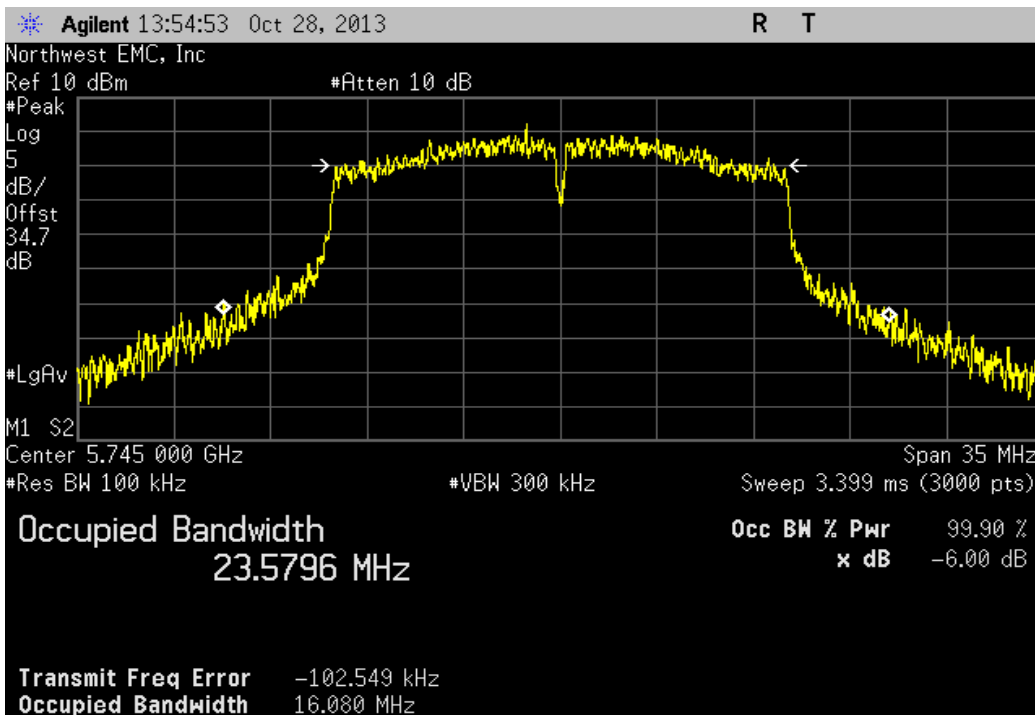
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

Value	Limit	Result
13.791 MHz	> 500 kHz	Pass



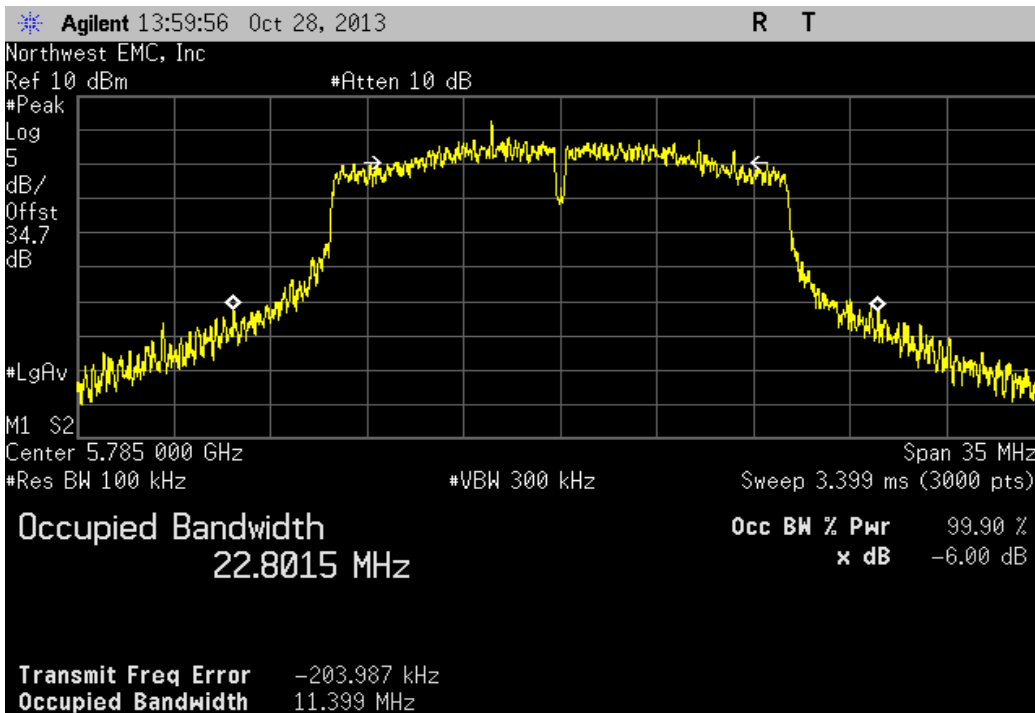
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
16.08 MHz	> 500 kHz	Pass



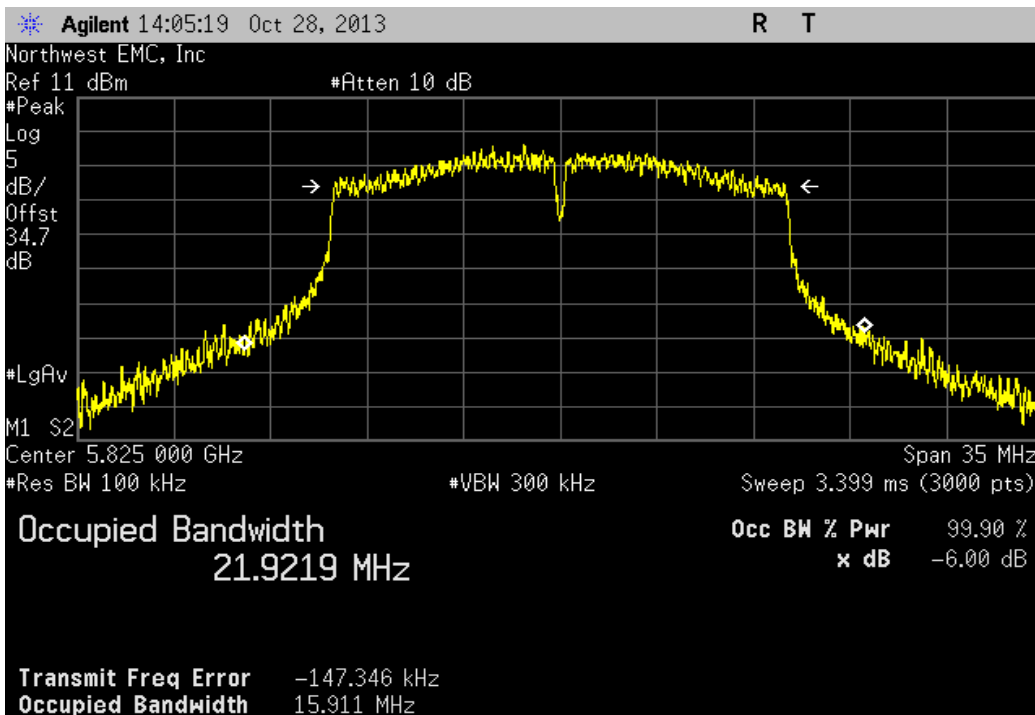
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

Value	Limit	Result
11.399 MHz	> 500 kHz	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

Value	Limit	Result
15.911 MHz	> 500 kHz	Pass



Spurious Conducted 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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were 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. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

Power Setting by Band:

2412MHz – 2462MHz, Power setting of 21000

5745MHz – 5825MHz, Power setting of 21000



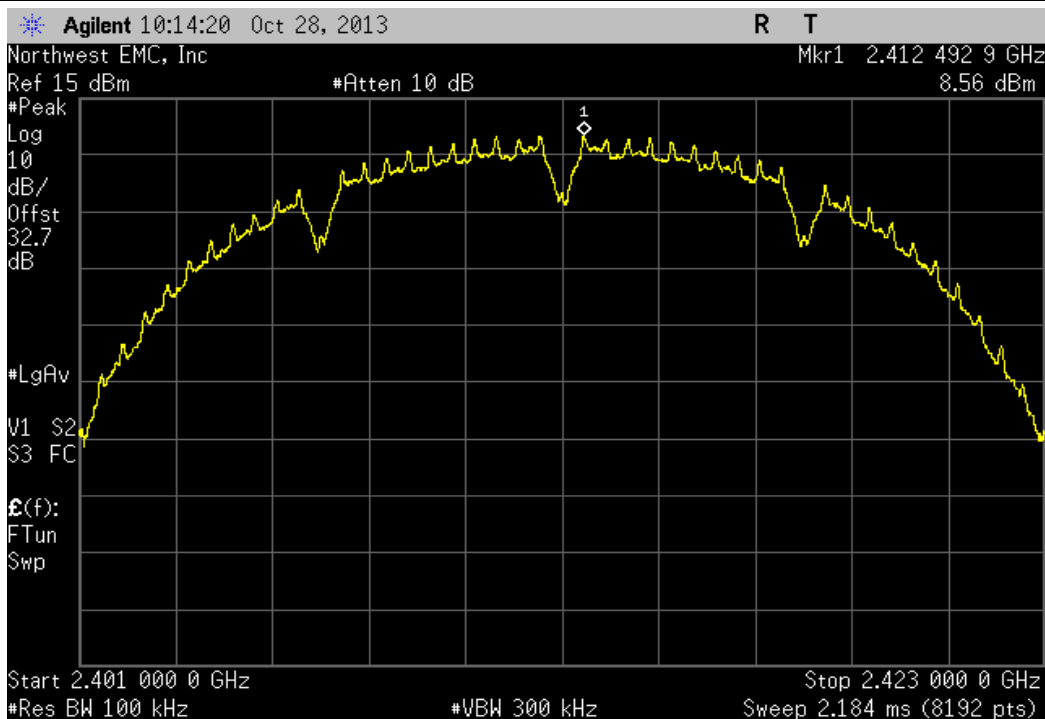
Spurious Conducted Emissions

XMIT 2013.08.15
PsaTx 2013.07.11

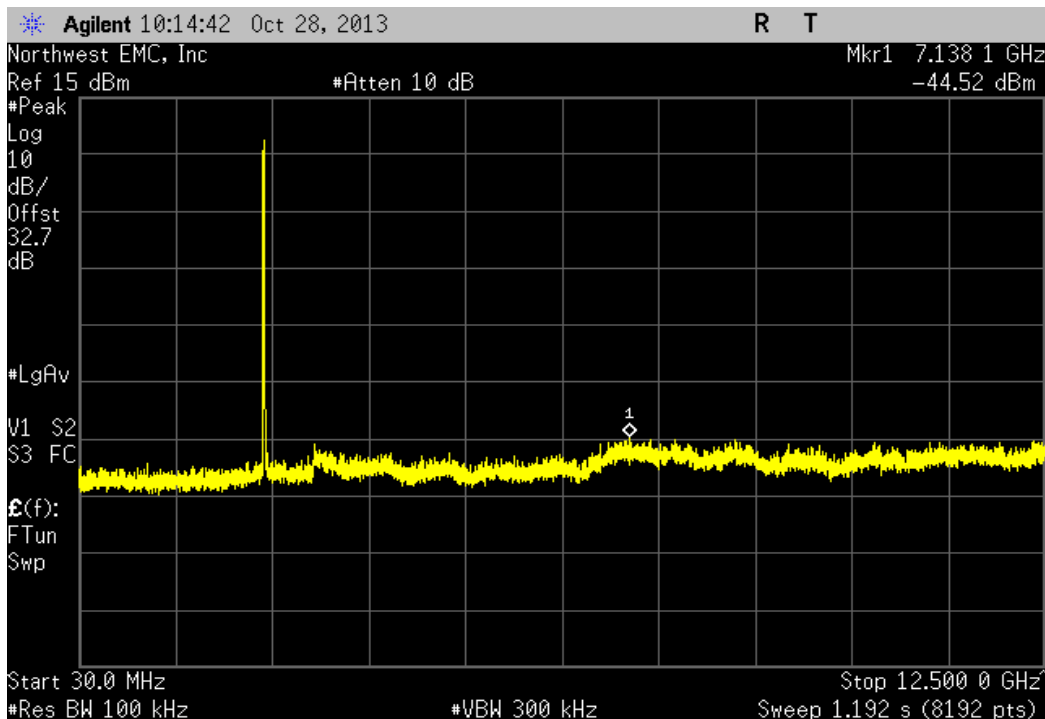
EUT: The EGG		Work Order: INSD0001	
Serial Number: 99		Date: 11/06/13	
Customer: Intel Corporation		Temperature: 22.2°C	
Attendees: Phil Auzas		Humidity: 42%	
Project: None		Barometric Pres.: 1015	
Tested by: Brandon Hobbs		Power: 4 VDC	Job Site: EV06
TEST SPECIFICATIONS		Test Method	
FCC 15.247.2013		ANSI C63.10.2009	
COMMENTS			
The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature	
		Frequency Range	Value Limit Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-53.08 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-45.96 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-53.28 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-46.42 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-53.4 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-46.63 dBc ≤ -20 dBc Pass
802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-53.13 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-46.04 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-53.25 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-45.85 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-52.53 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-44.52 dBc ≤ -20 dBc Pass
802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-48.8 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-42.06 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-50.17 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-43.05 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-49.88 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-42.94 dBc ≤ -20 dBc Pass
802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-49.14 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-43.14 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-49.93 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-43.06 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-50.65 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-42.71 dBc ≤ -20 dBc Pass
802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-48.35 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-40.98 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-50.17 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-43.72 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-50.39 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-42.75 dBc ≤ -20 dBc Pass
802.11(n) MCS0			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-49.51 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-42.36 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-49.72 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-42.83 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-49.94 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-43.32 dBc ≤ -20 dBc Pass
802.11(n) MCS7			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-50.14 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-42.29 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-50.14 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-42.65 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-50.68 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-43.29 dBc ≤ -20 dBc Pass
5725 MHz - 5850 MHz Band			
802.11(a) 6 Mbps			
	Low Channel 149, 5745 MHz	Fundamental	N/A N/A N/A
	Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-48.73 dBc ≤ -20 dBc Pass
	Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-43.27 dBc ≤ -20 dBc Pass
	Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-41.49 dBc ≤ -20 dBc Pass
	Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-32.05 dBc ≤ -20 dBc Pass
	Mid Channel 157, 5785 MHz	Fundamental	N/A N/A N/A
	Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-48.41 dBc ≤ -20 dBc Pass
	Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-40.73 dBc ≤ -20 dBc Pass
	Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-39.59 dBc ≤ -20 dBc Pass
	Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-31.05 dBc ≤ -20 dBc Pass
	High Channel 165, 5825 MHz	Fundamental	N/A N/A N/A
	High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-48.15 dBc ≤ -20 dBc Pass
	High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-40.91 dBc ≤ -20 dBc Pass
	High Channel 165, 5825 MHz	25 GHz - 32 GHz	-39.5 dBc ≤ -20 dBc Pass
	High Channel 165, 5825 MHz	32 GHz - 40 GHz	-30.58 dBc ≤ -20 dBc Pass

802.11(a) 36 Mbps				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-49.05 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-42.04 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-39.25 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-31.32 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-48.52 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-41.22 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-38.23 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-29.4 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-47.4 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-39.65 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-37.79 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-28.24 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-49.4 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-41.42 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-39.63 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-29.51 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-48.84 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-42.74 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-40.71 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-30.26 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-49.23 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-42.15 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-40.57 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-30.75 dBc	≤ -20 dBc	Pass
802.11(n) MCS0 - UNII				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-48.75 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-42.1 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-40.66 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-30.38 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-49.05 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-43.03 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-40.67 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-31.56 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-48.41 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-41.34 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-39.54 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-29.21 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-49.69 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-42.96 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-41.11 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-32.17 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-48.82 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-41.27 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-39.56 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-30.36 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-48.81 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-41.49 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-39.98 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-30.68 dBc	≤ -20 dBc	Pass

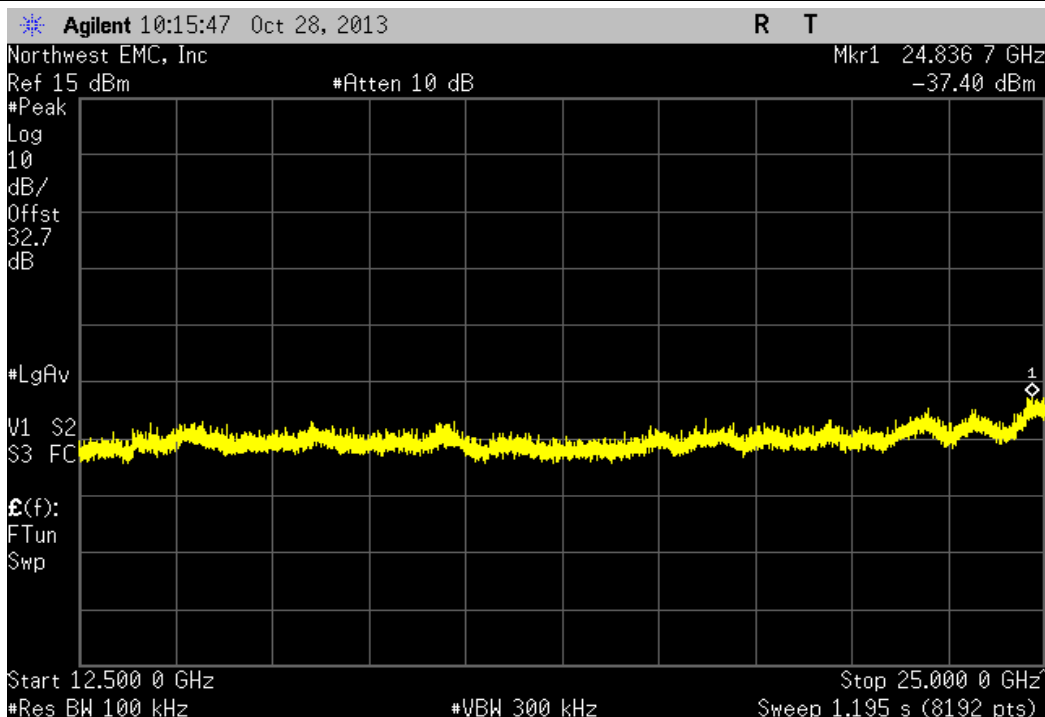
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



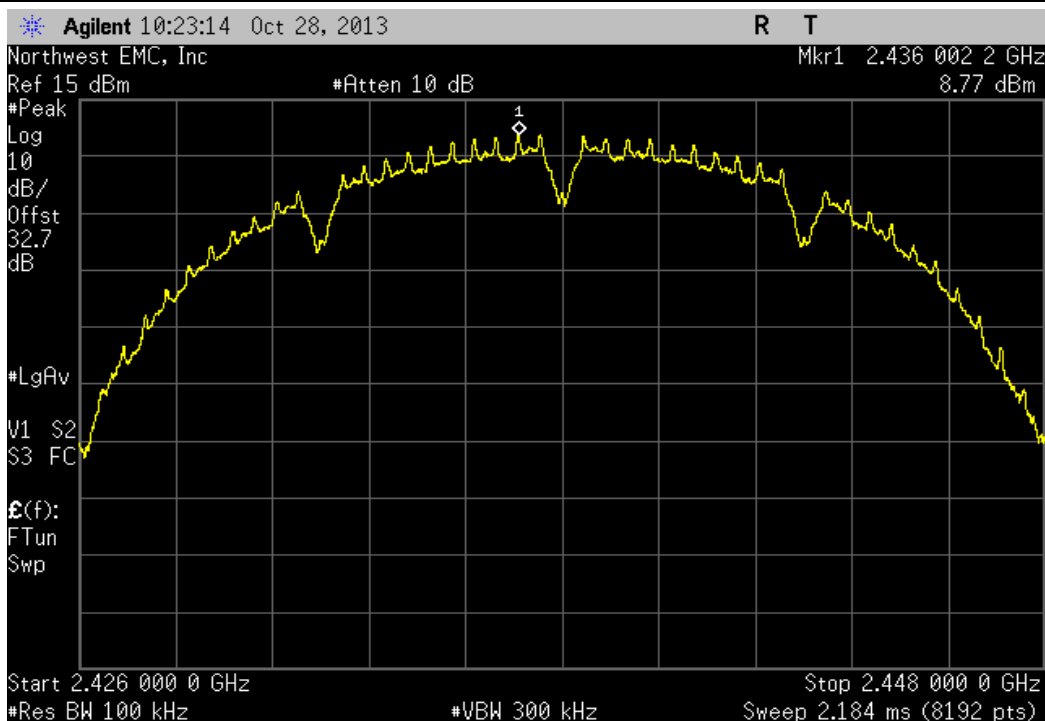
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.08 dBc	≤ -20 dBc	Pass



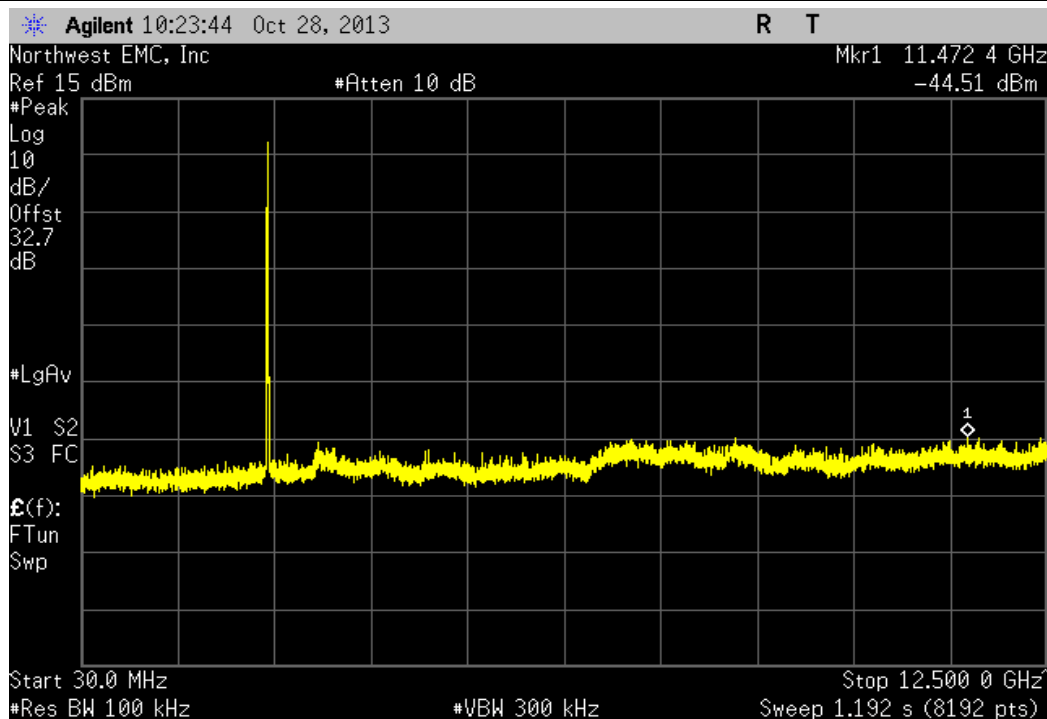
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.96 dBc	≤ -20 dBc	Pass	



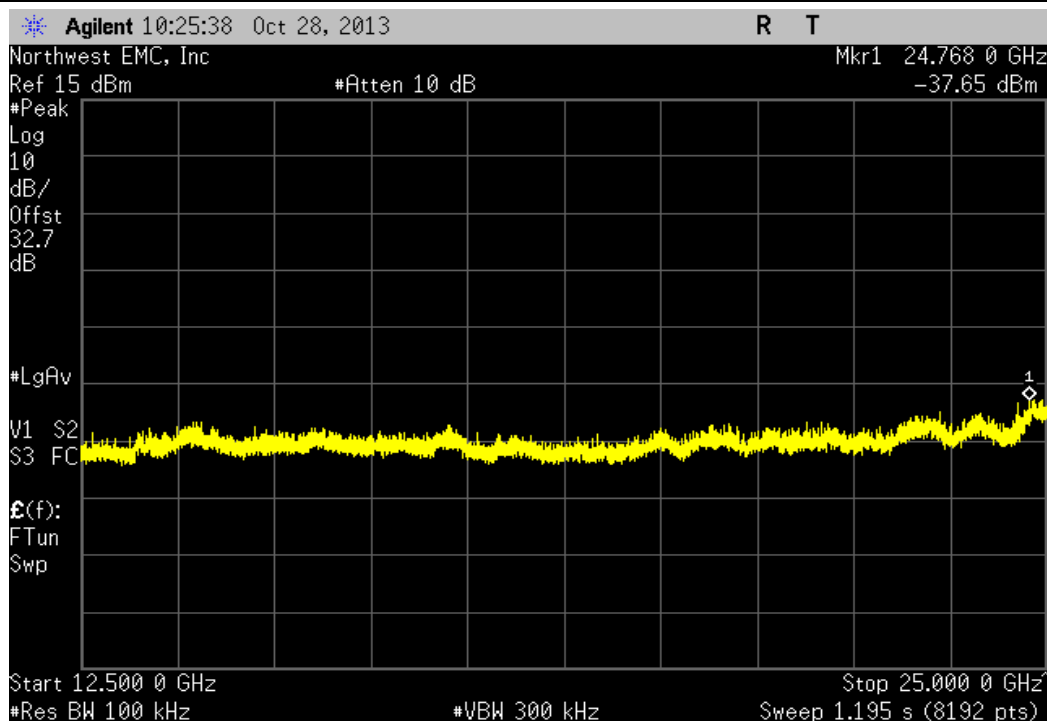
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



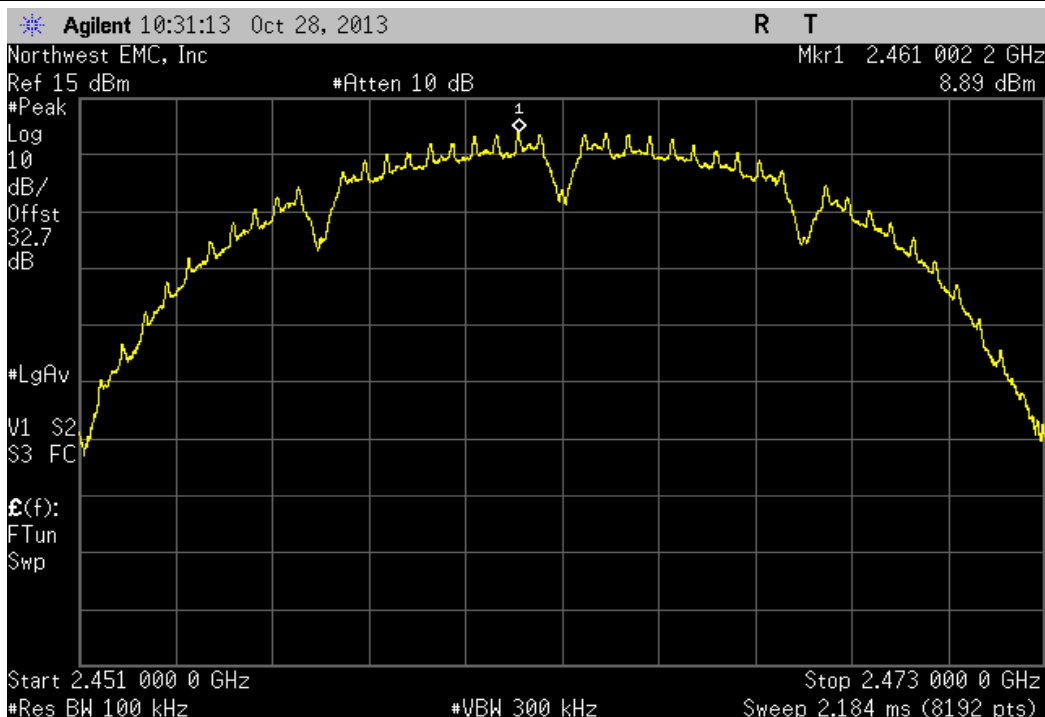
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-53.28 dBc	≤ -20 dBc	Pass	



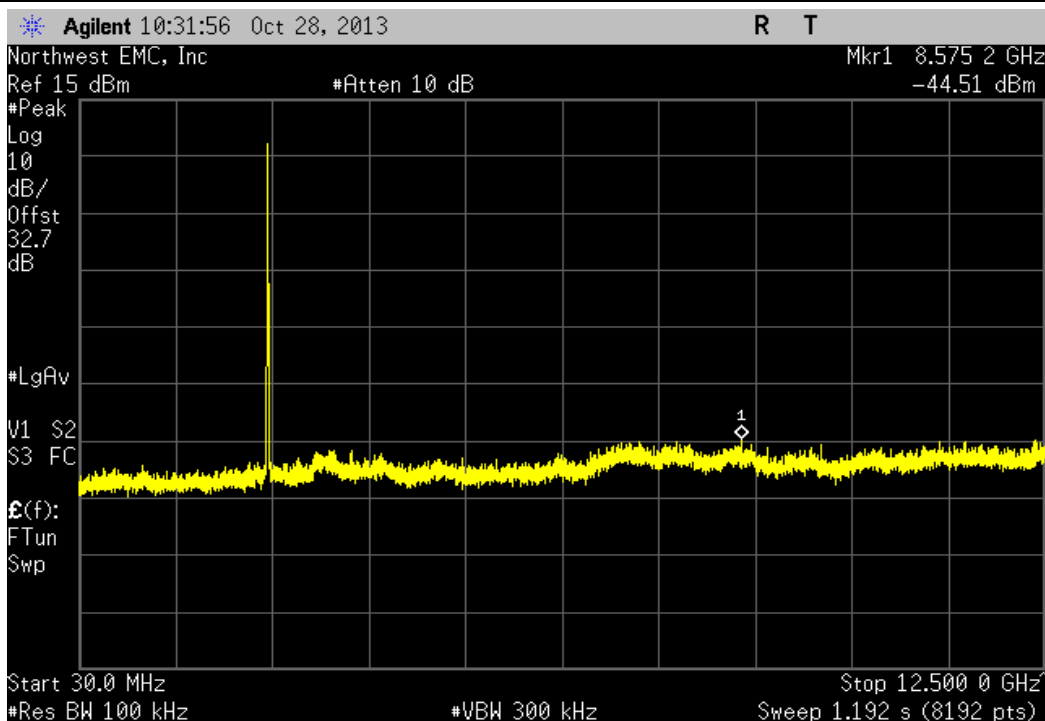
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.42 dBc	≤ -20 dBc	Pass	



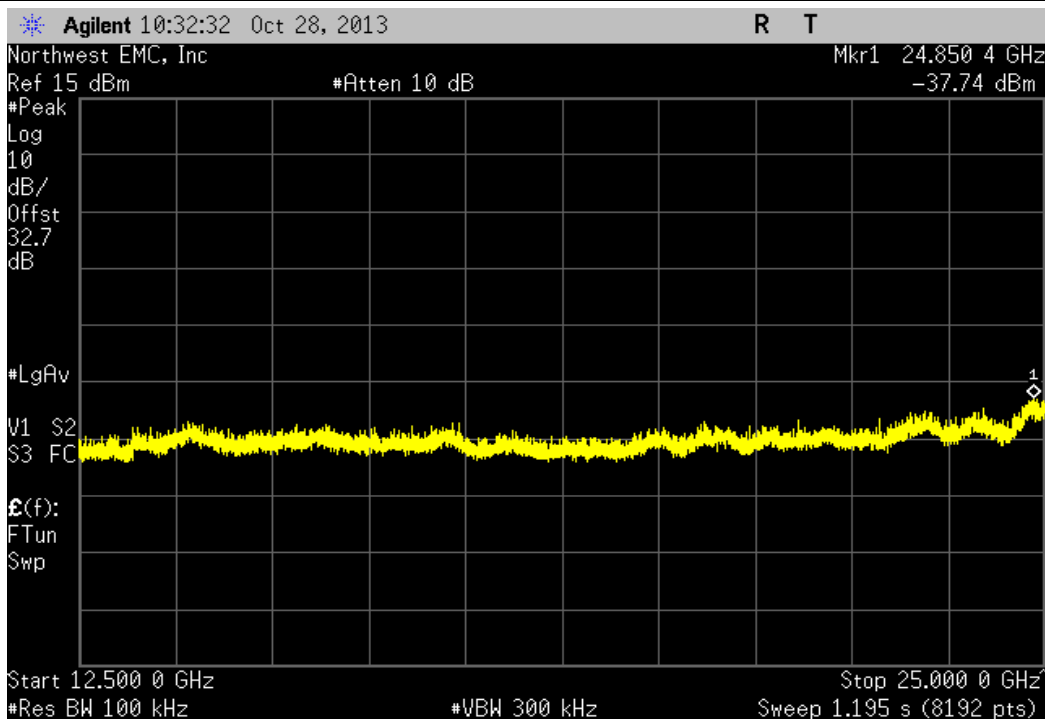
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



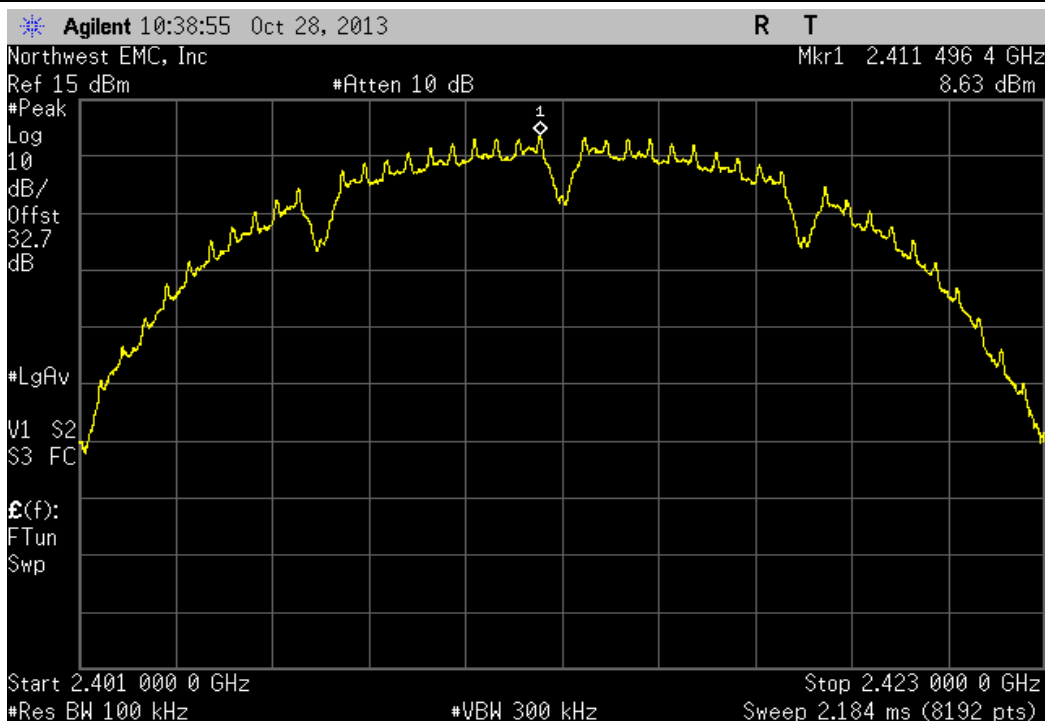
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.4 dBc	≤ -20 dBc	Pass



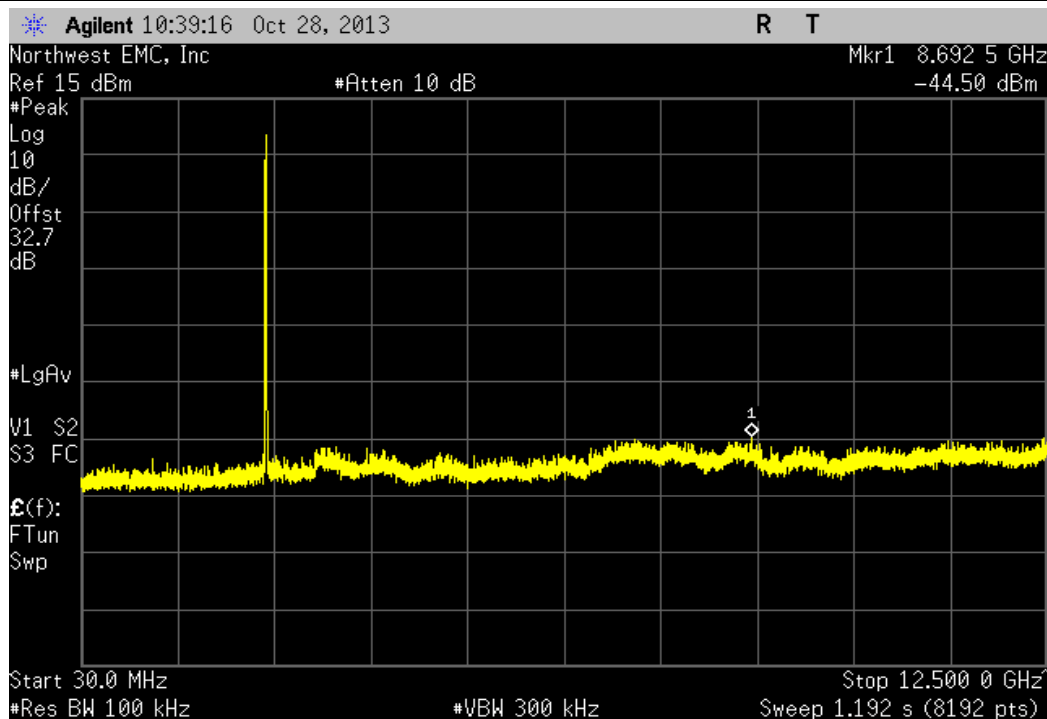
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-46.63 dBc	≤ -20 dBc	Pass



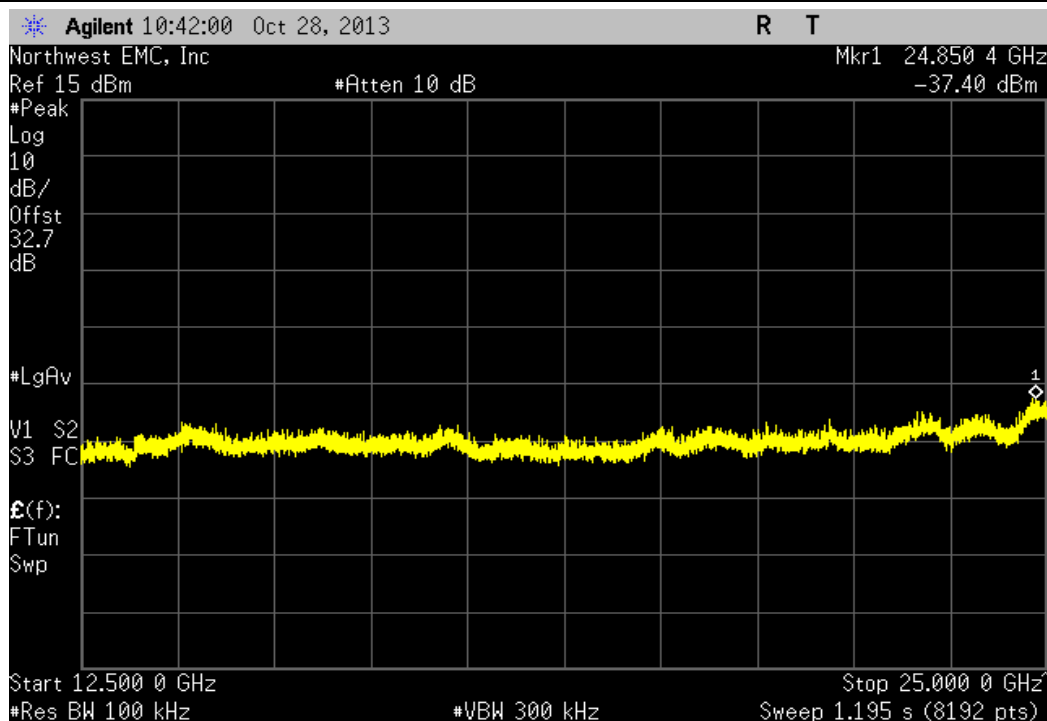
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



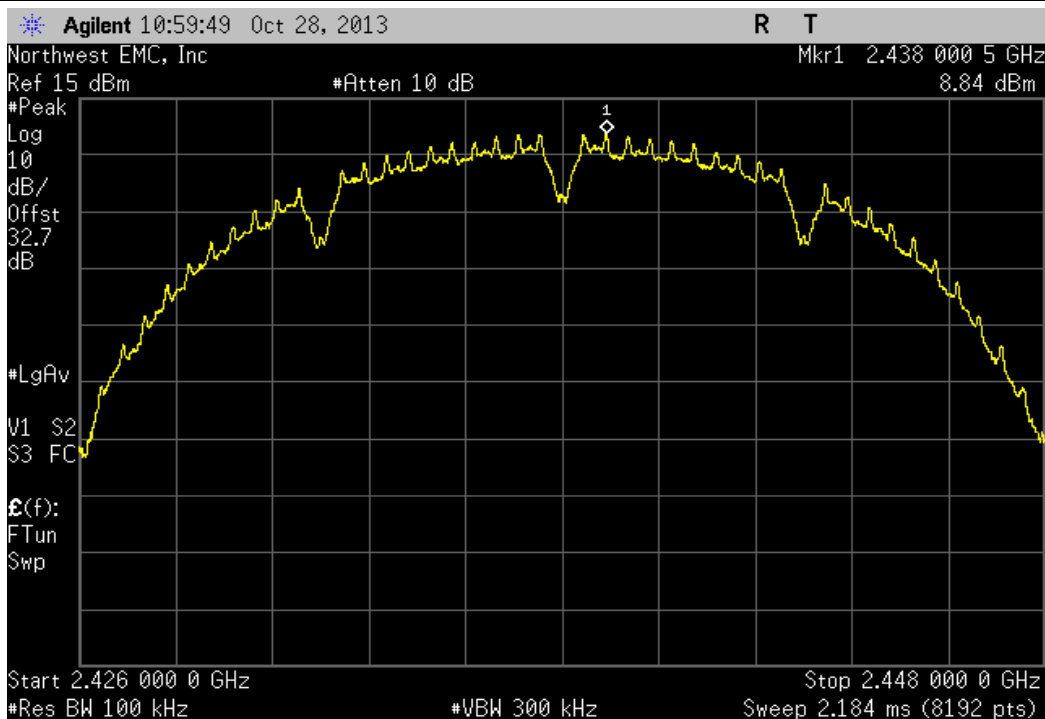
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-53.13 dBc	≤ -20 dBc	Pass	



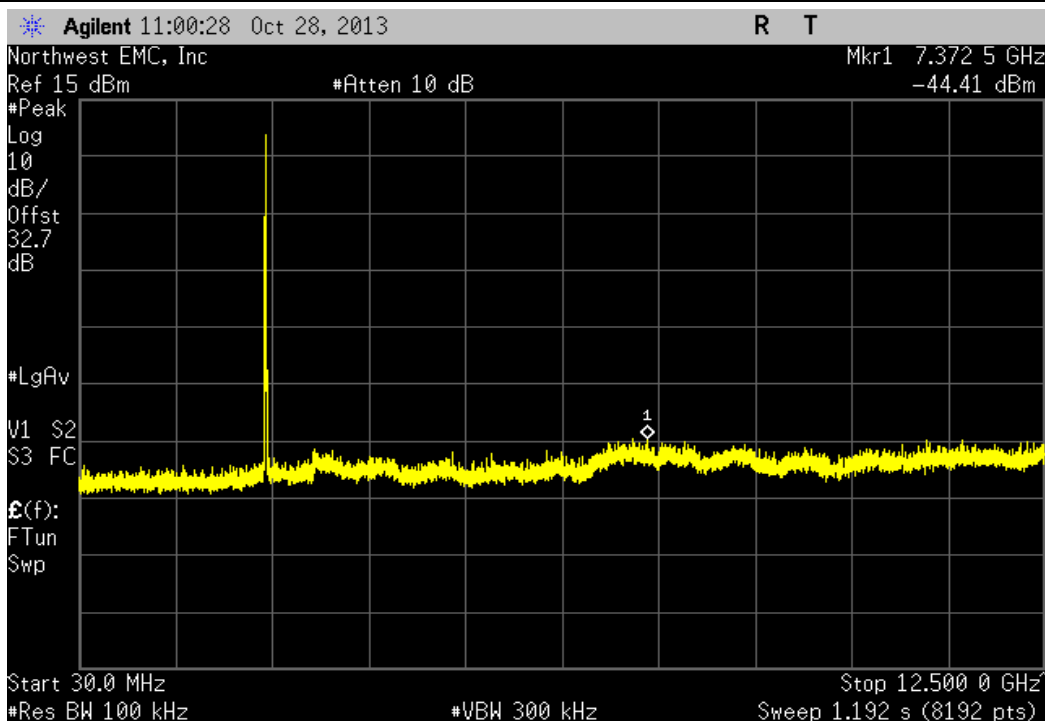
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.04 dBc	≤ -20 dBc	Pass	



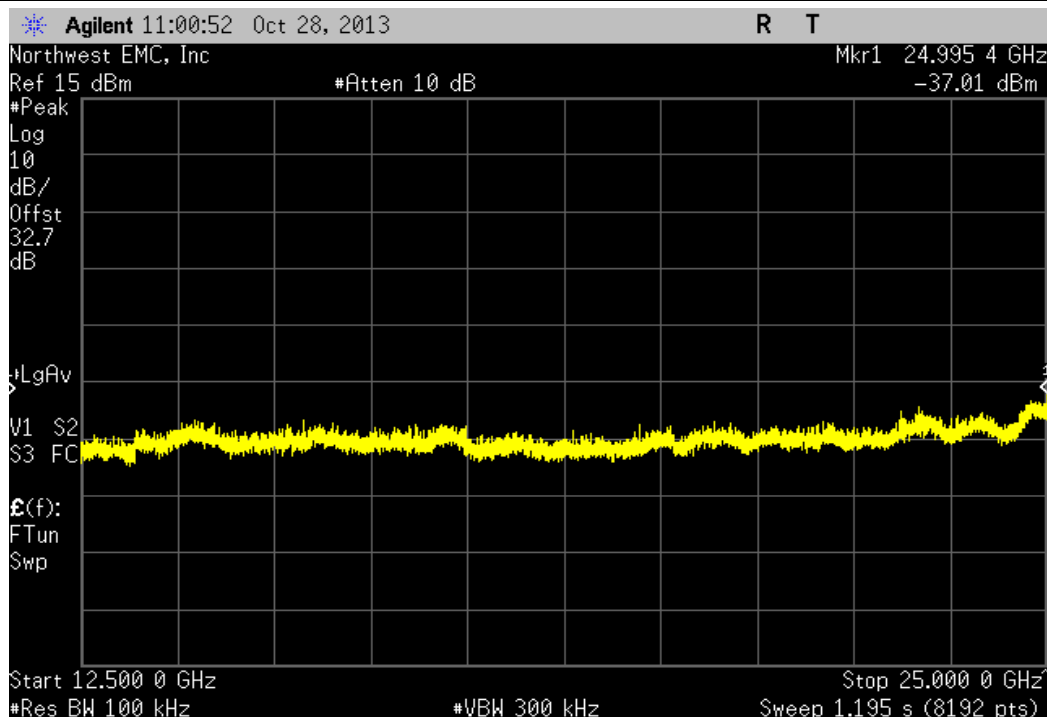
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



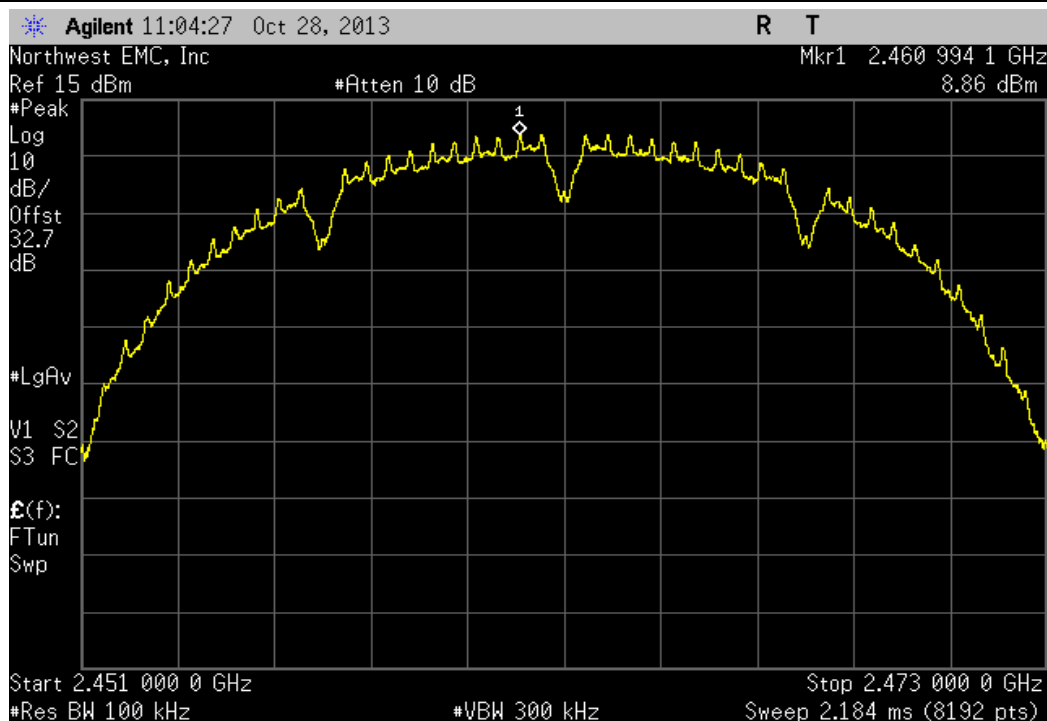
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.25 dBc	≤ -20 dBc	Pass



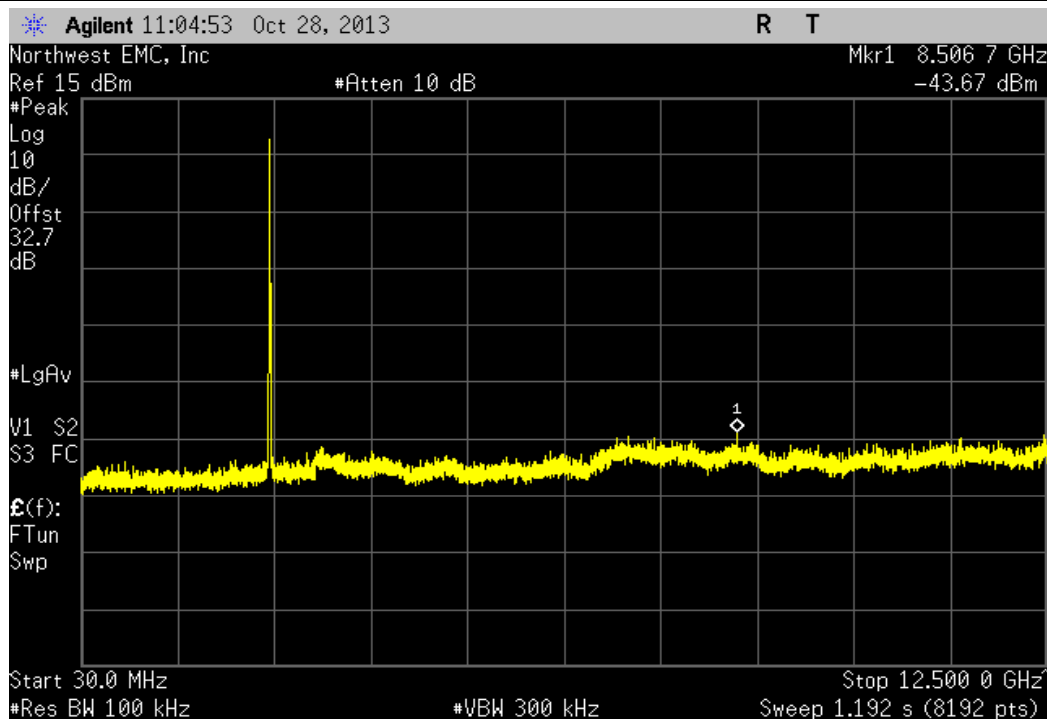
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.85 dBc	≤ -20 dBc	Pass	



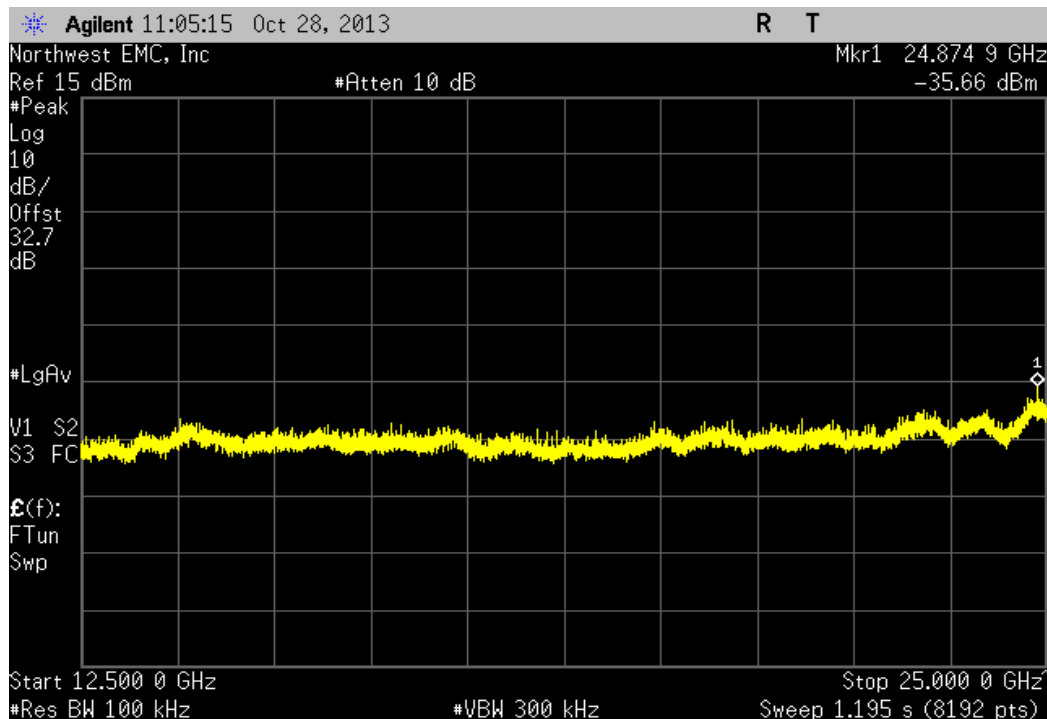
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



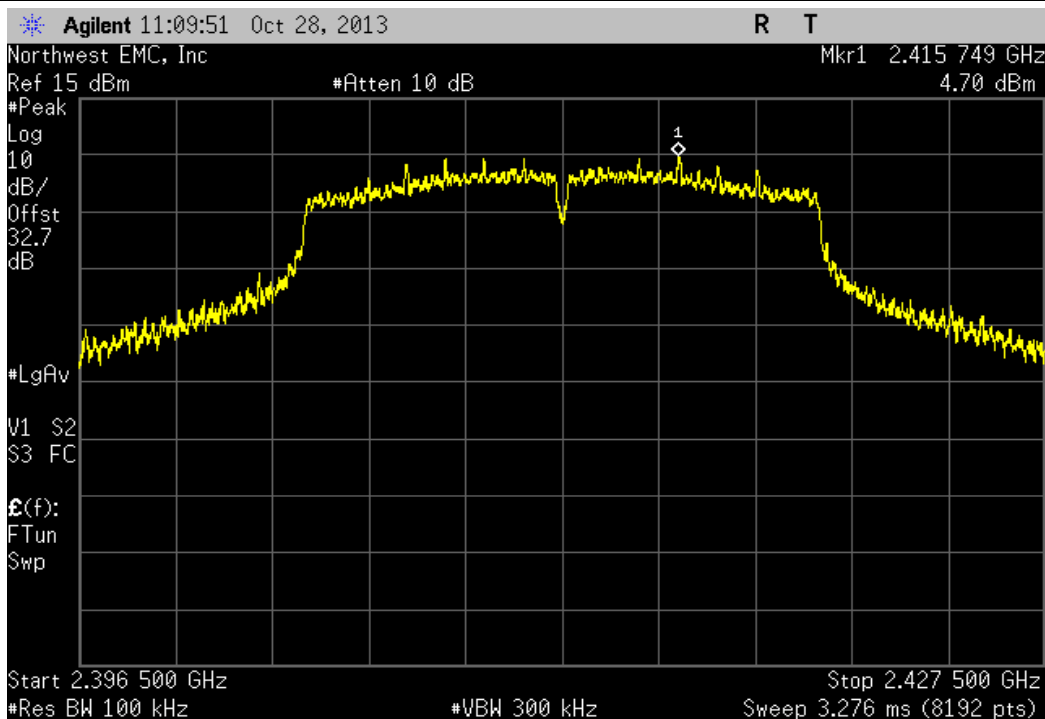
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.53 dBc	≤ -20 dBc	Pass



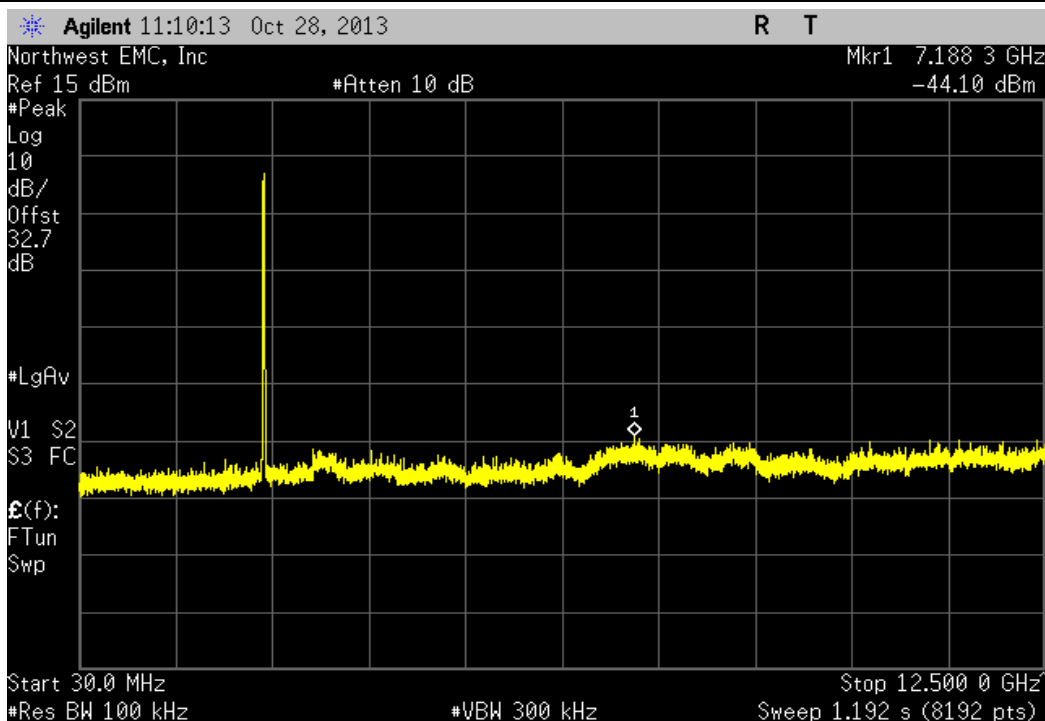
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.52 dBc	≤ -20 dBc	Pass



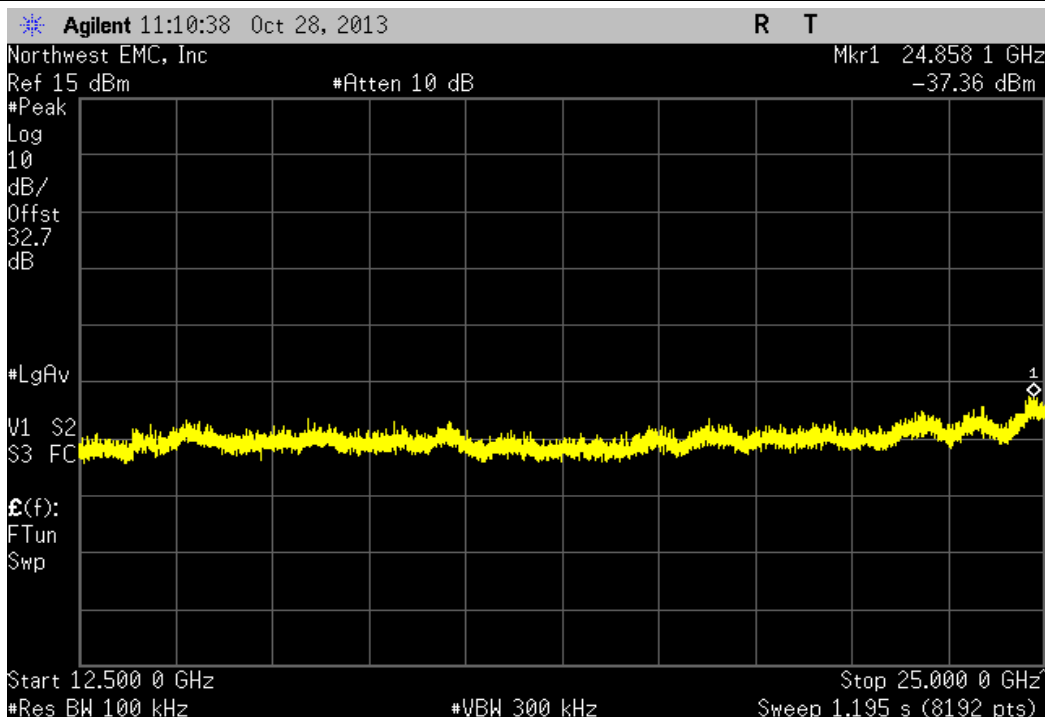
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



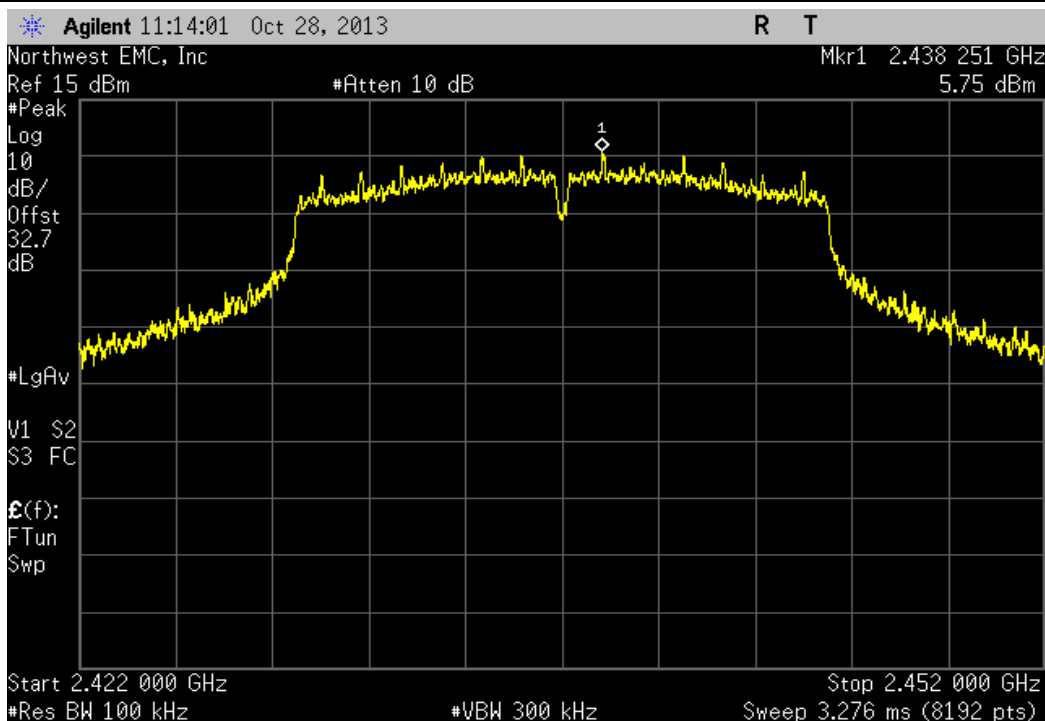
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.8 dBc	≤ -20 dBc	Pass



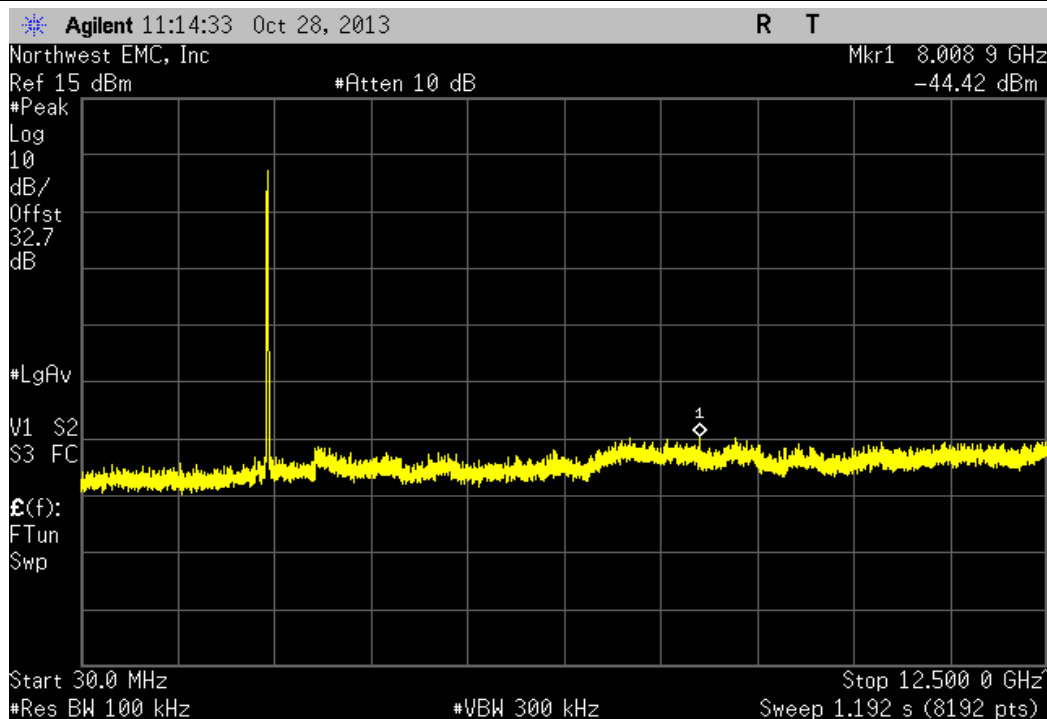
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency	Range	Value	Limit	Result
	12.5 GHz - 25 GHz	-42.06 dBc	≤ -20 dBc	Pass



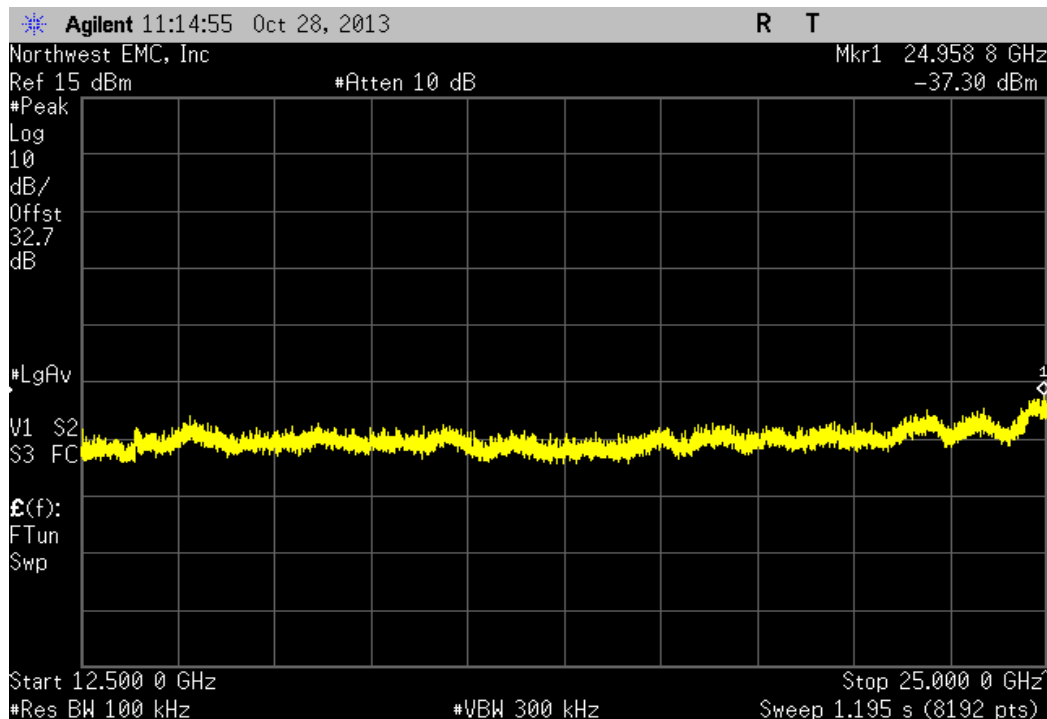
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency	Range	Value	Limit	Result
	Fundamental	N/A	N/A	N/A



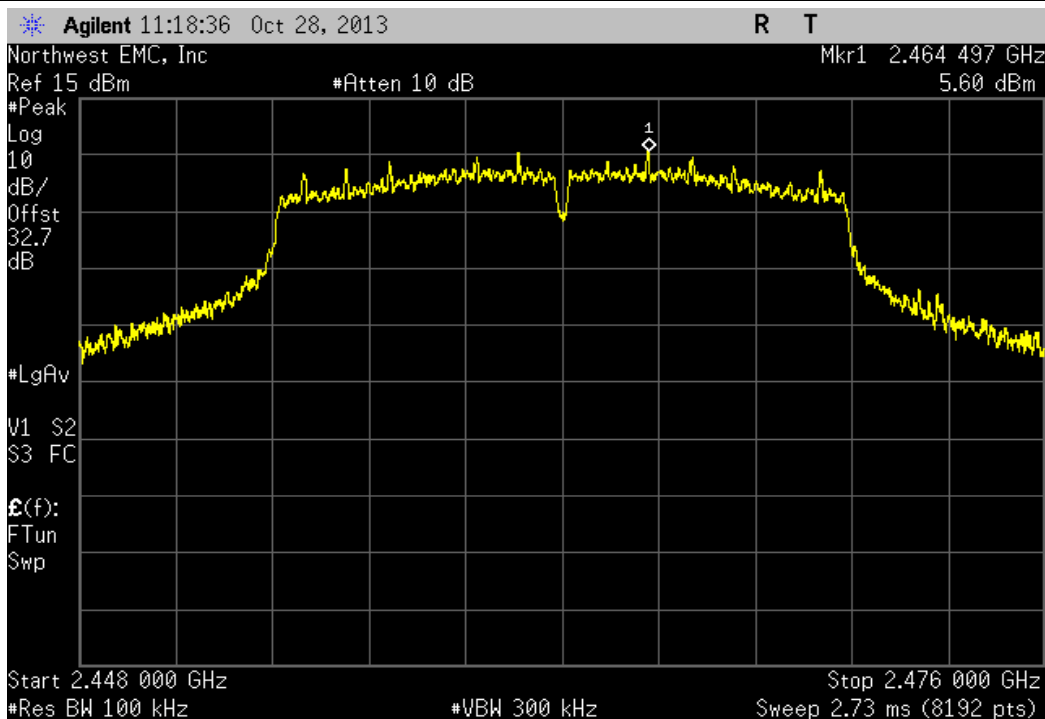
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.17 dBc	≤ -20 dBc	Pass	



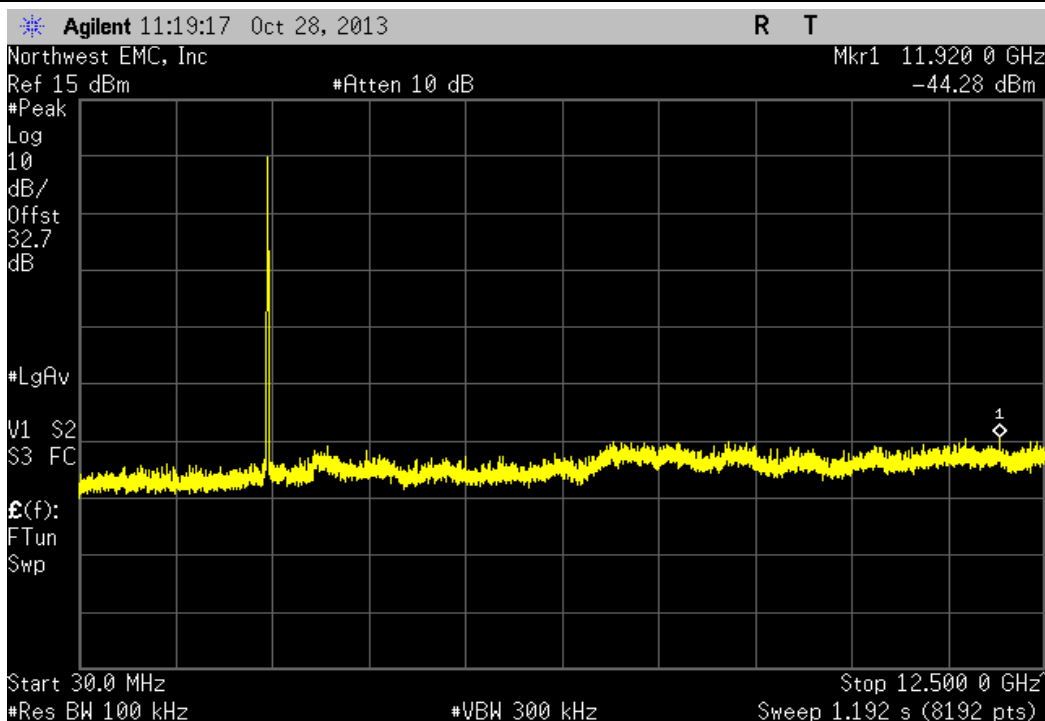
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.05 dBc	≤ -20 dBc	Pass	



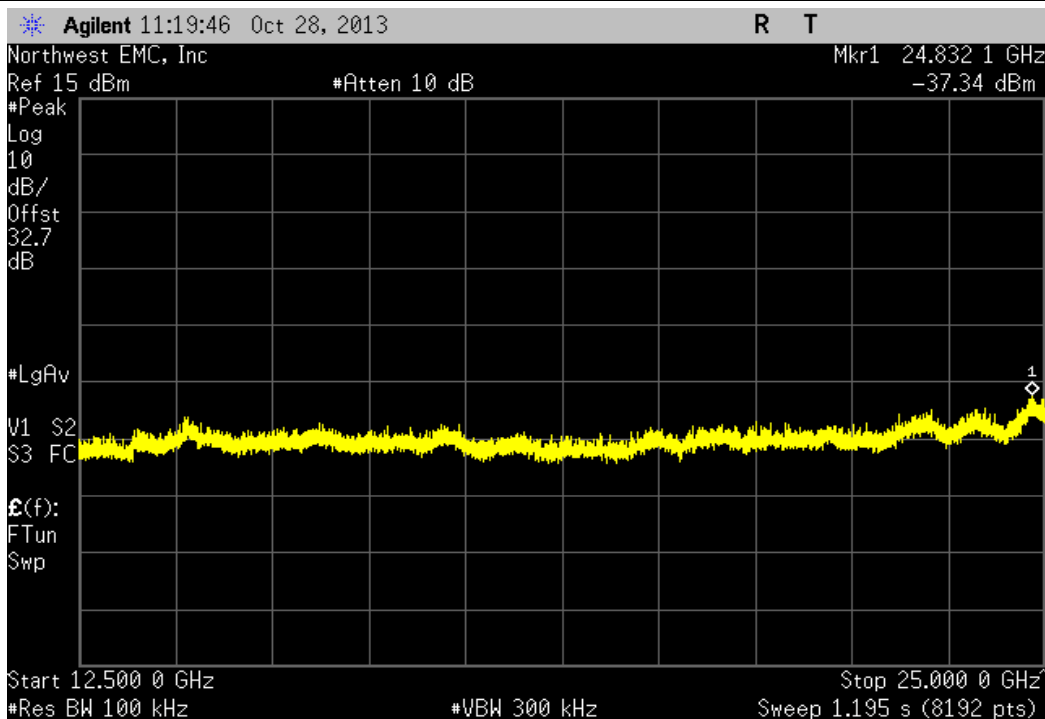
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



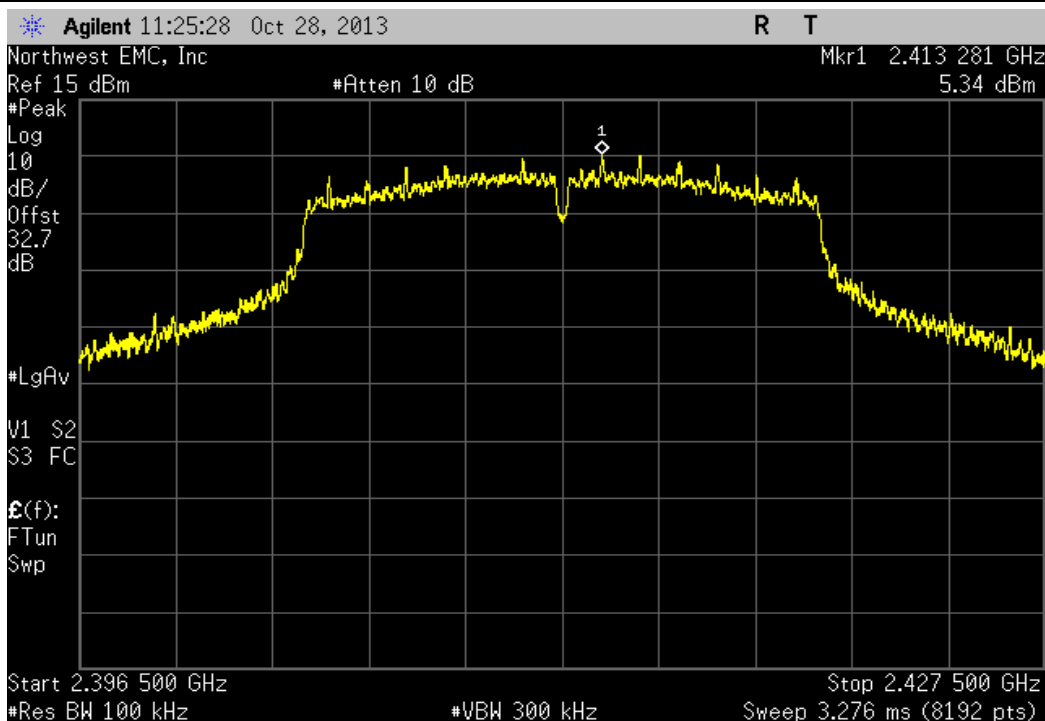
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-49.88 dBc	≤ -20 dBc	Pass



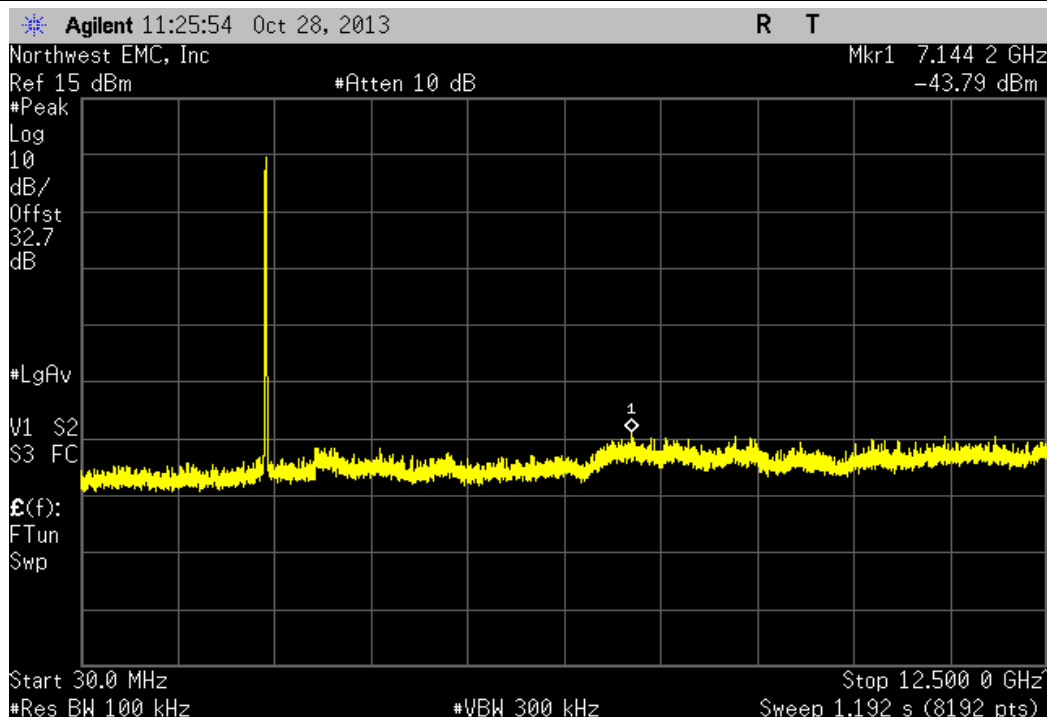
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-42.94 dBc	≤ -20 dBc	Pass



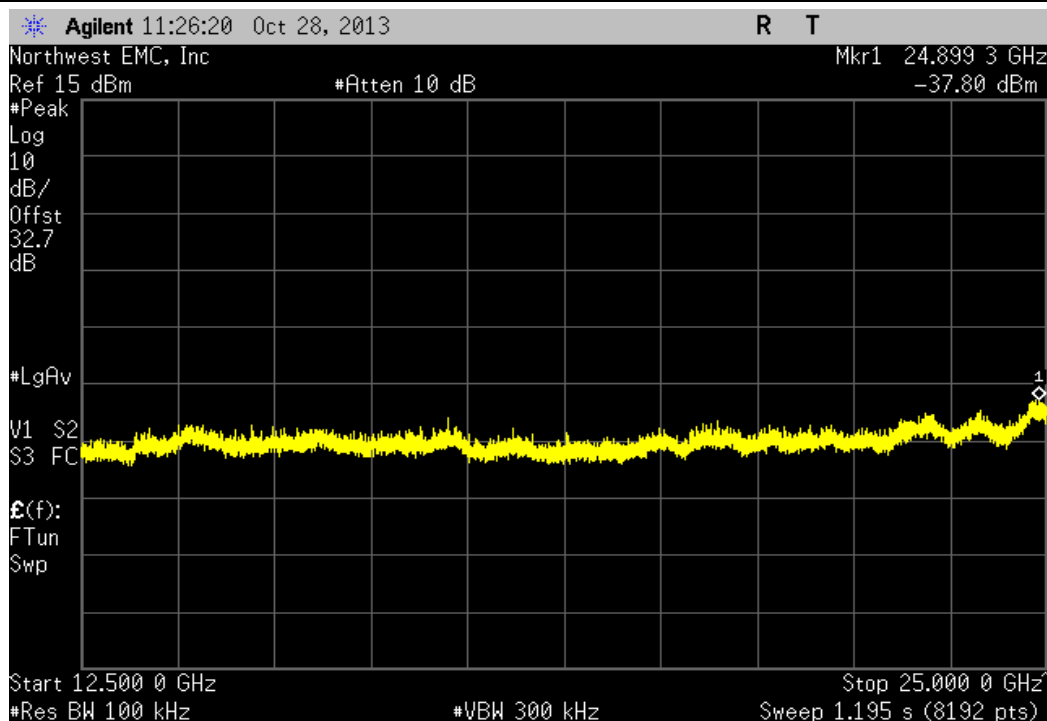
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



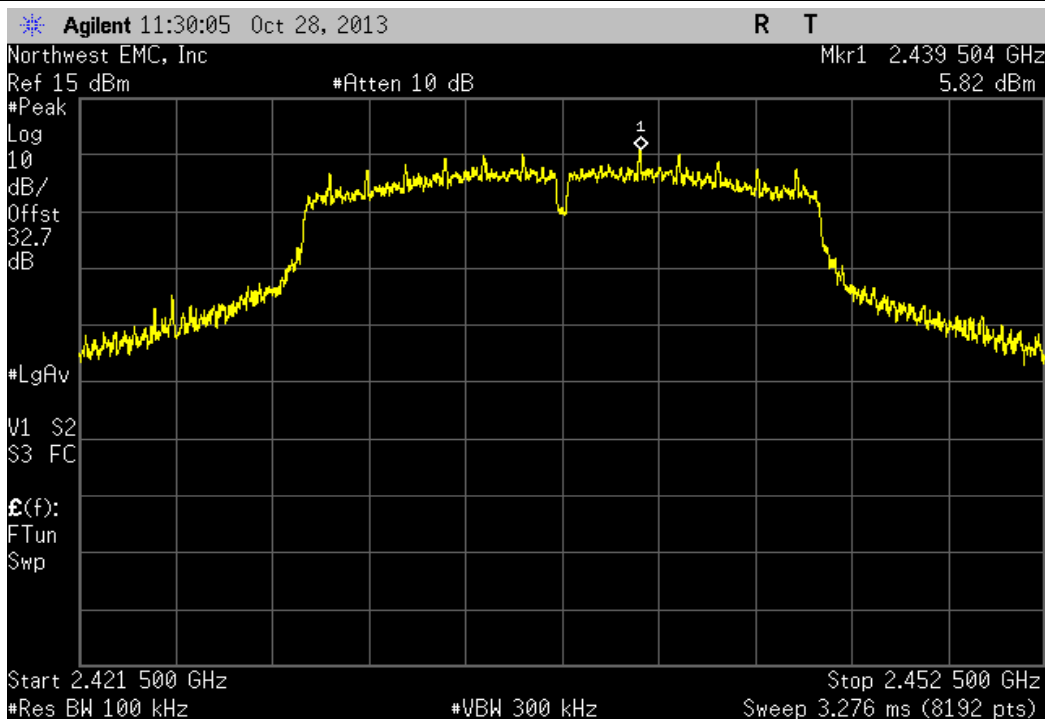
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-49.14 dBc	≤ -20 dBc	Pass



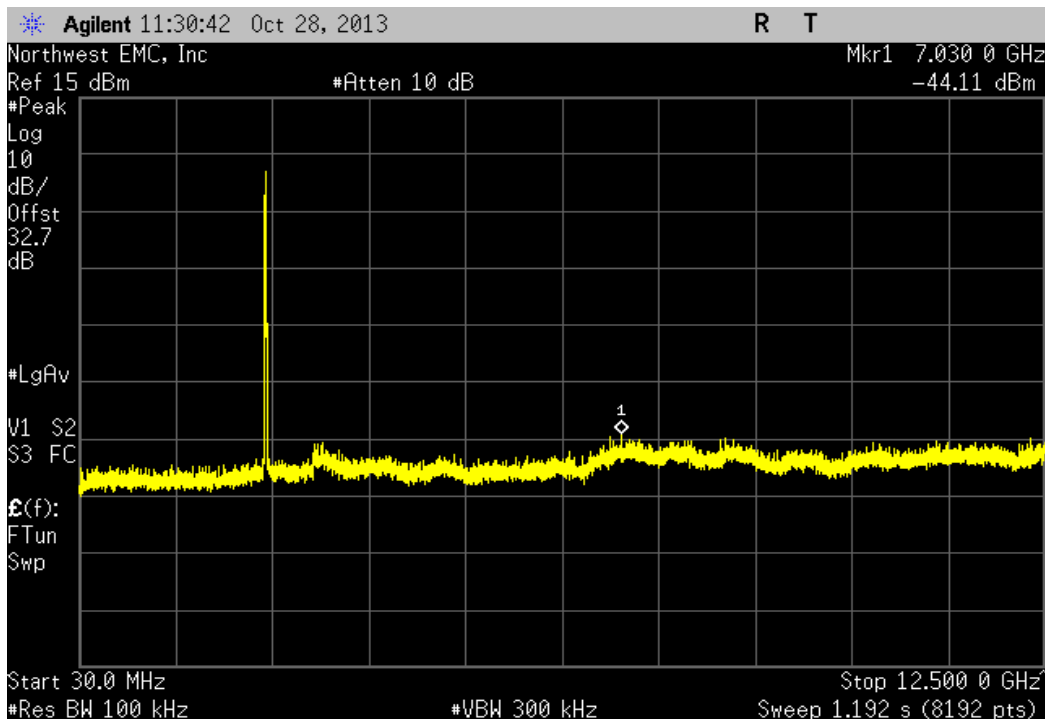
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.14 dBc	≤ -20 dBc	Pass



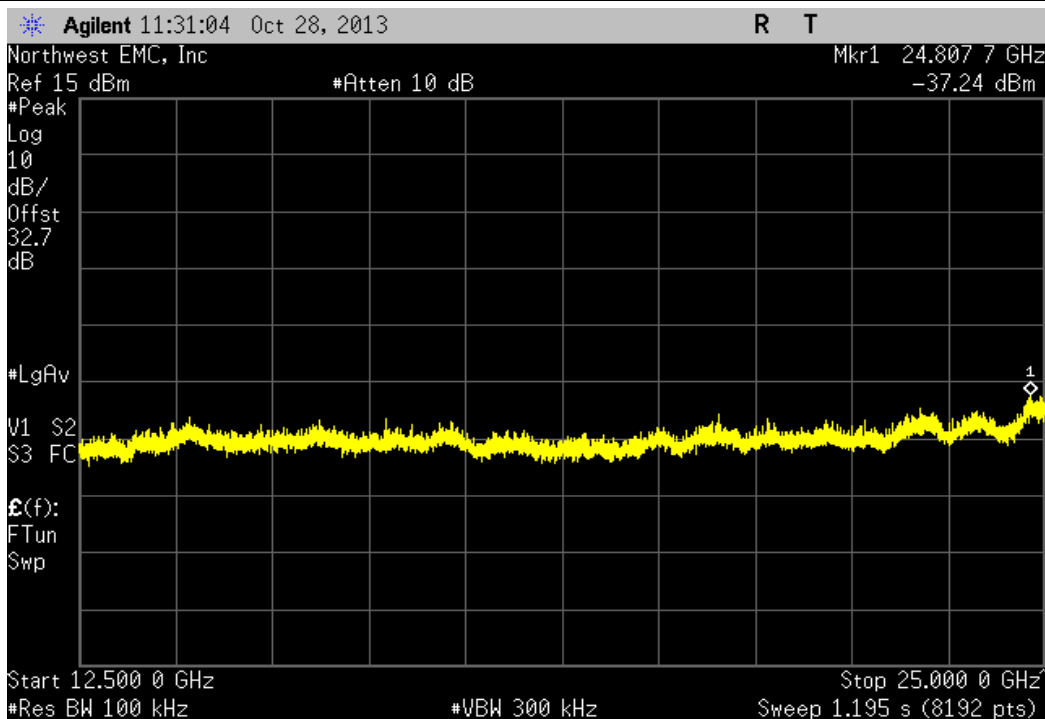
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



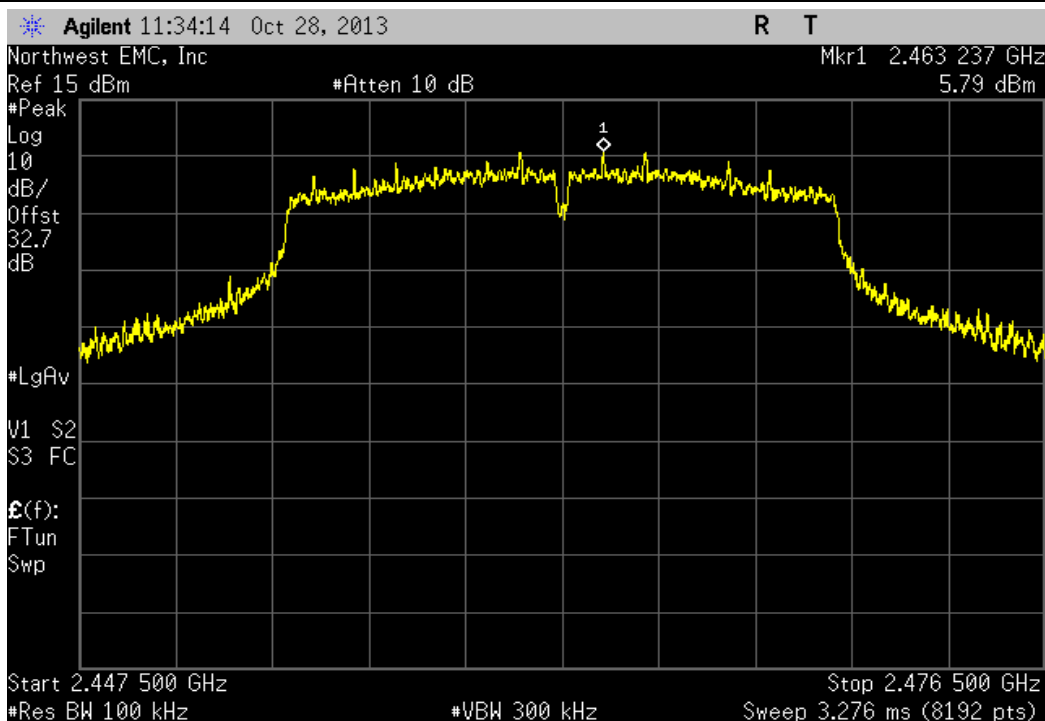
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-49.93 dBc	≤ -20 dBc	Pass



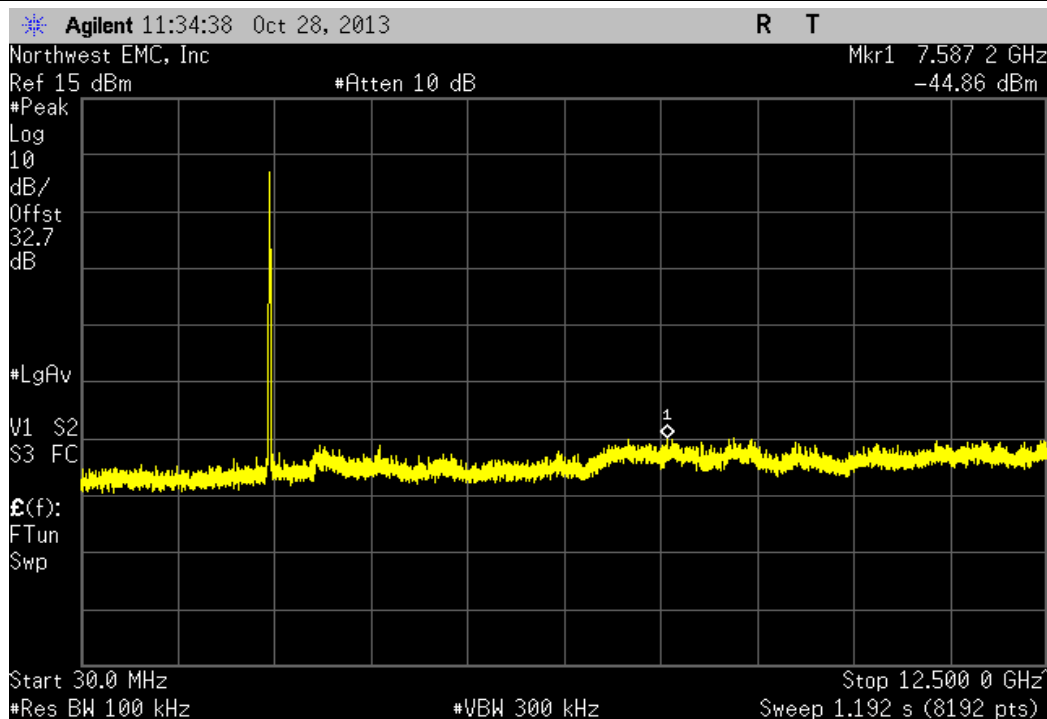
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.06 dBc	≤ -20 dBc	Pass



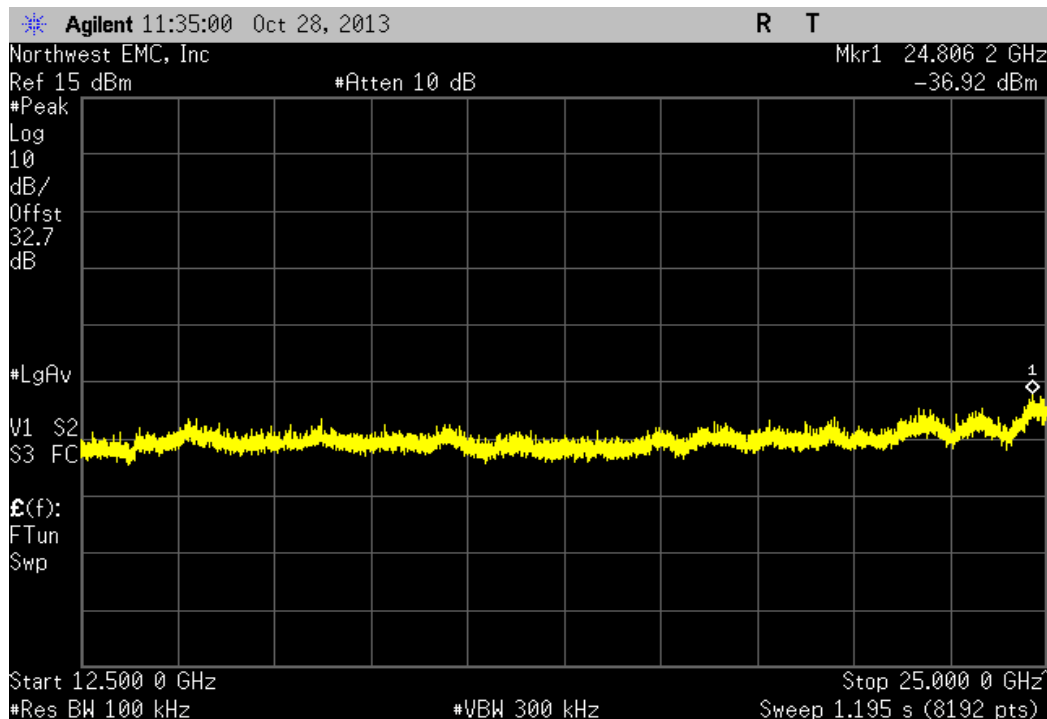
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



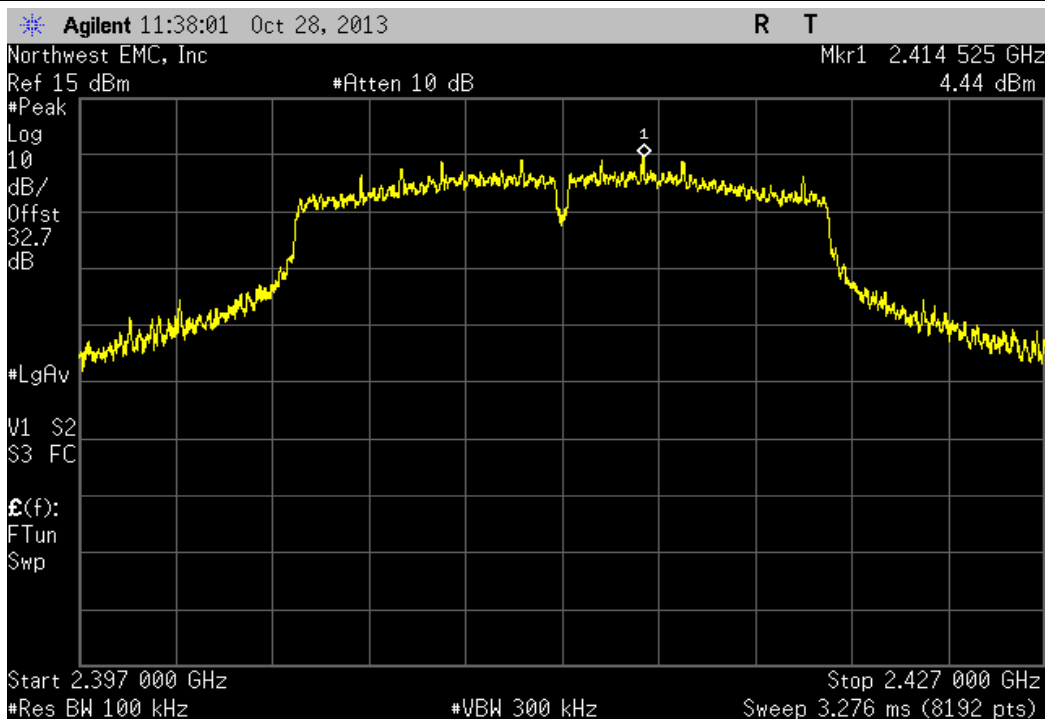
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.65 dBc	≤ -20 dBc	Pass



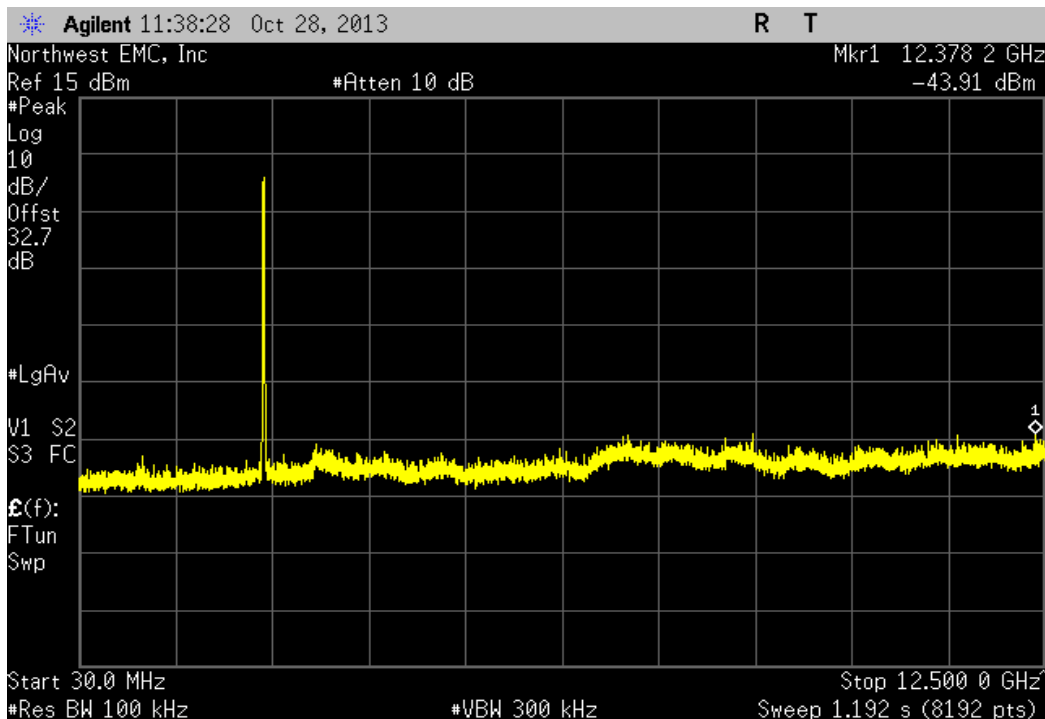
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-42.71 dBc	≤ -20 dBc	Pass



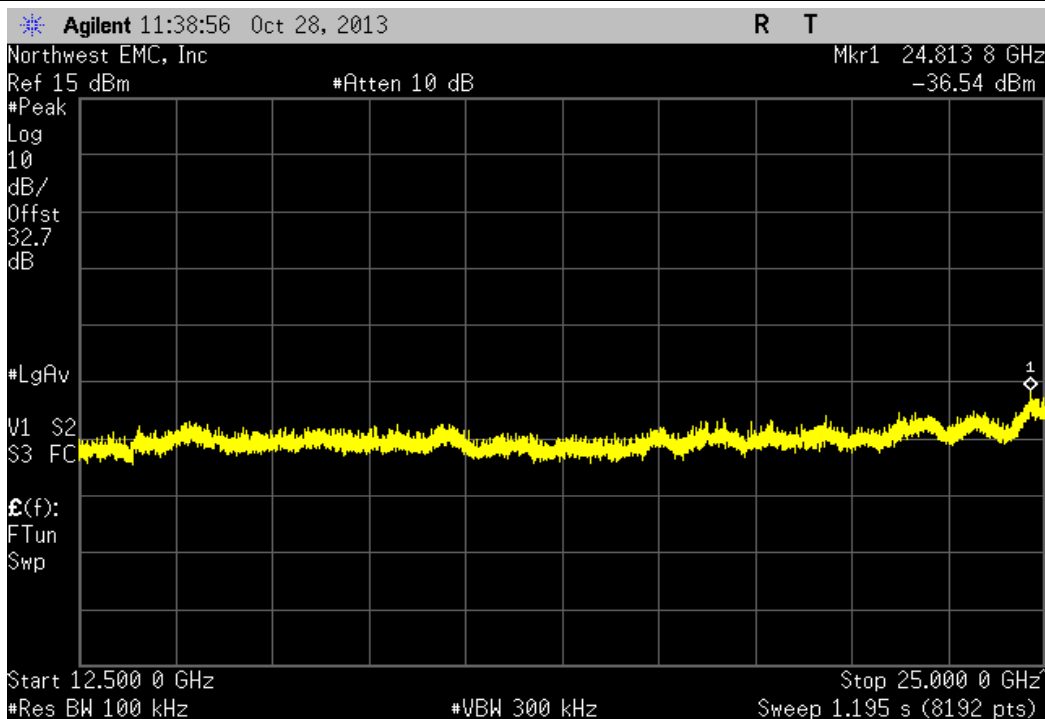
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



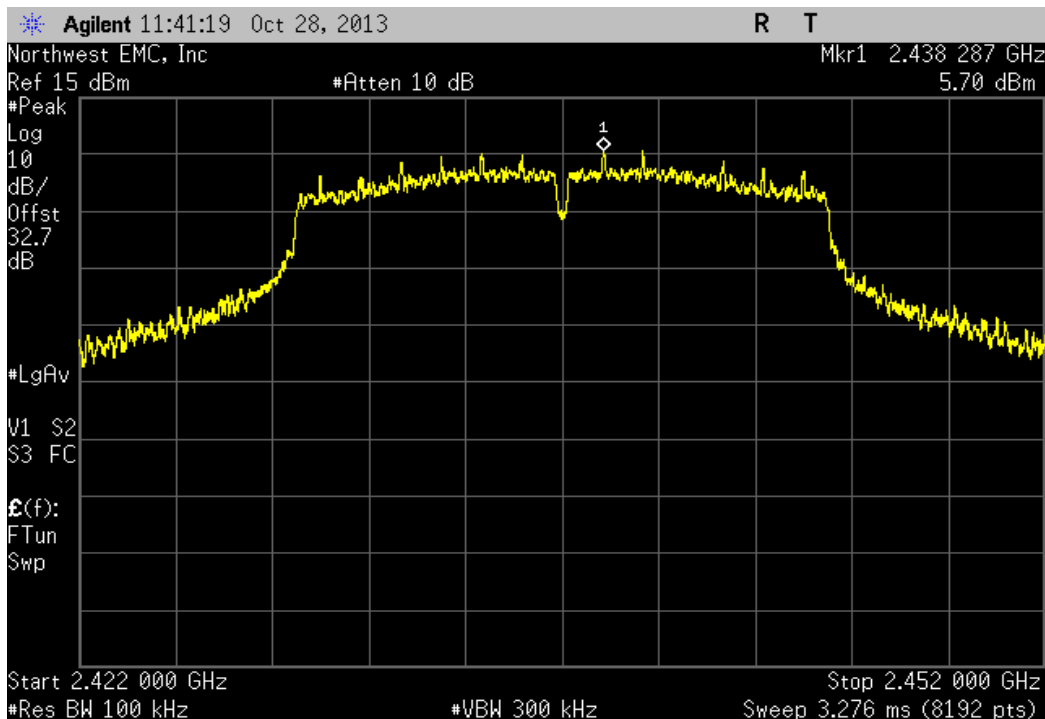
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.35 dBc	≤ -20 dBc	Pass



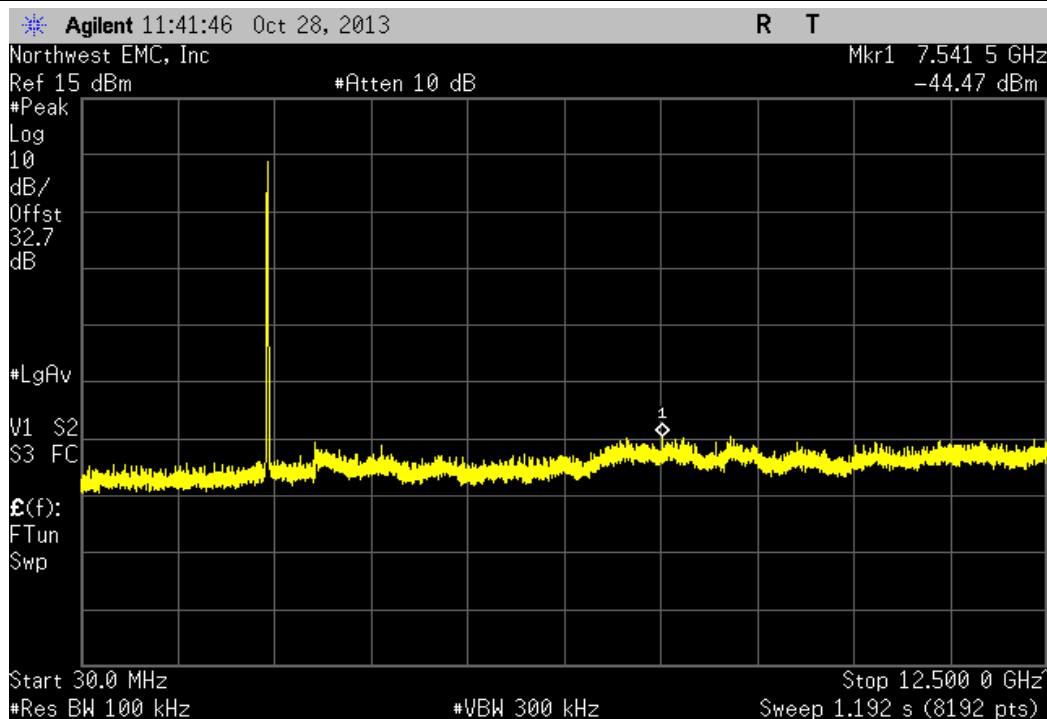
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-40.98 dBc	≤ -20 dBc	Pass



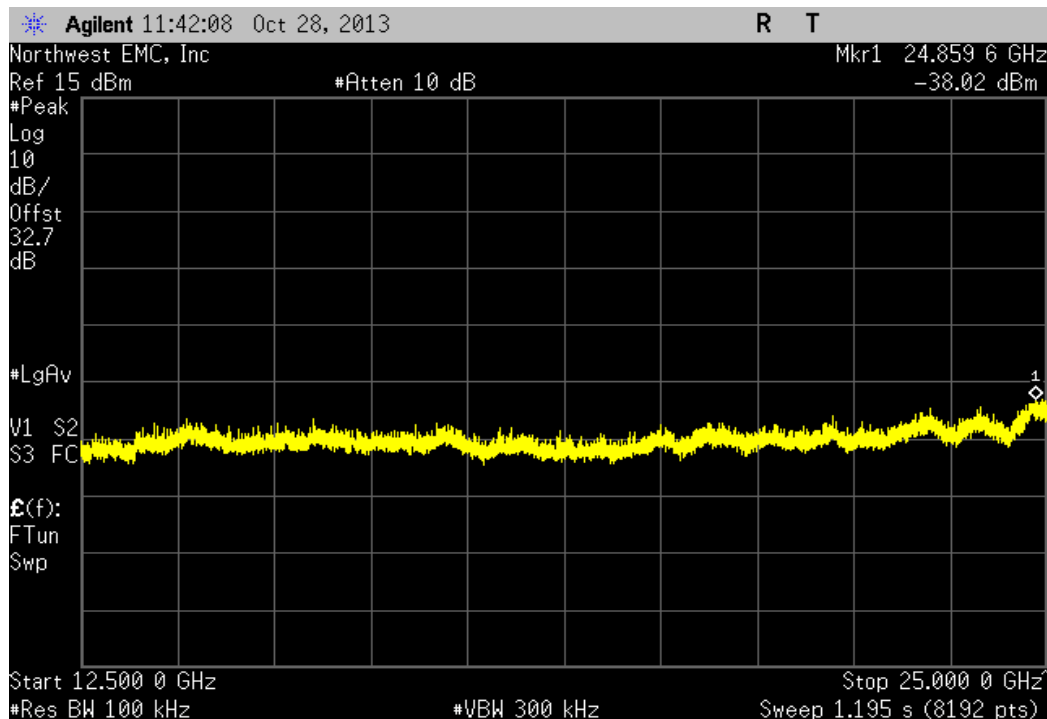
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



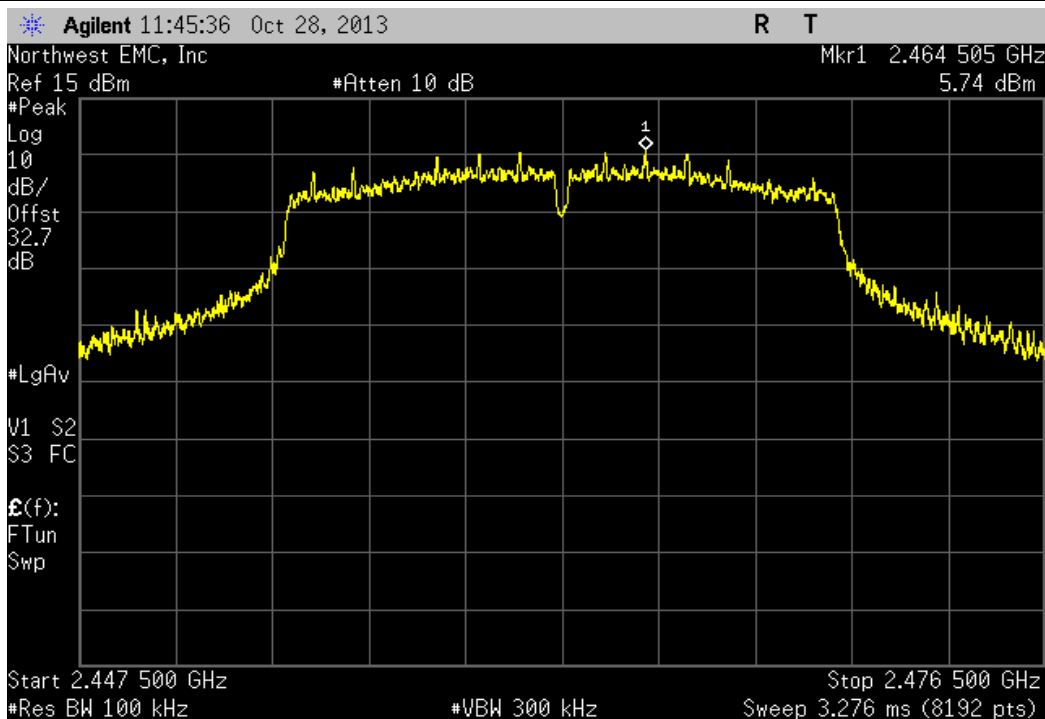
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.17 dBc	≤ -20 dBc	Pass	



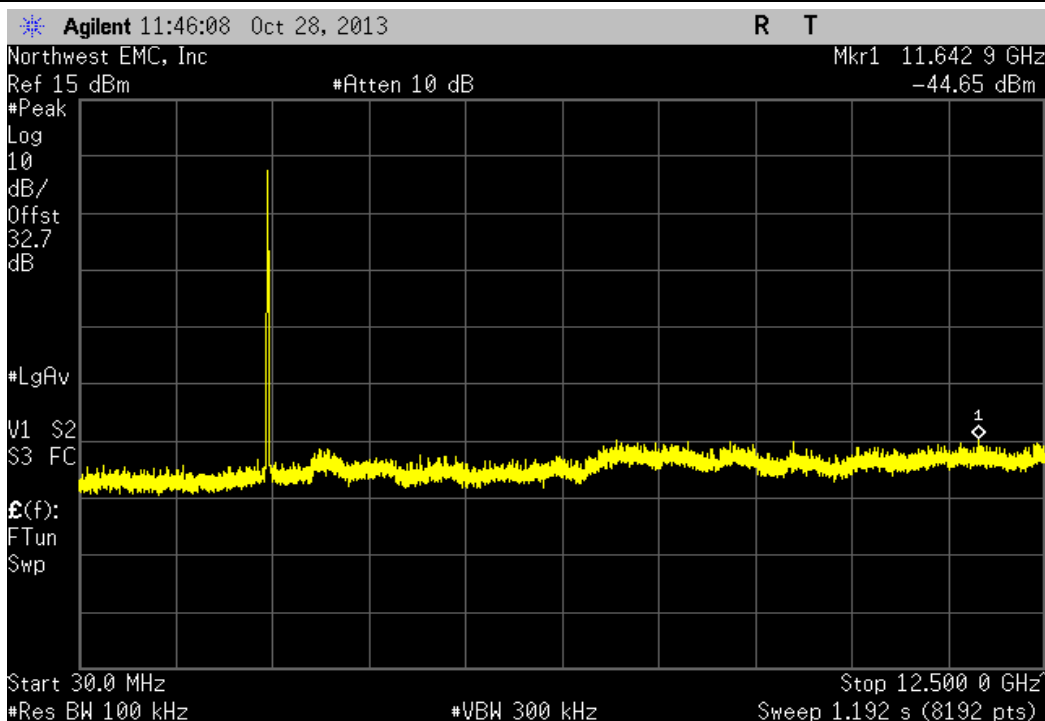
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.72 dBc	≤ -20 dBc	Pass	



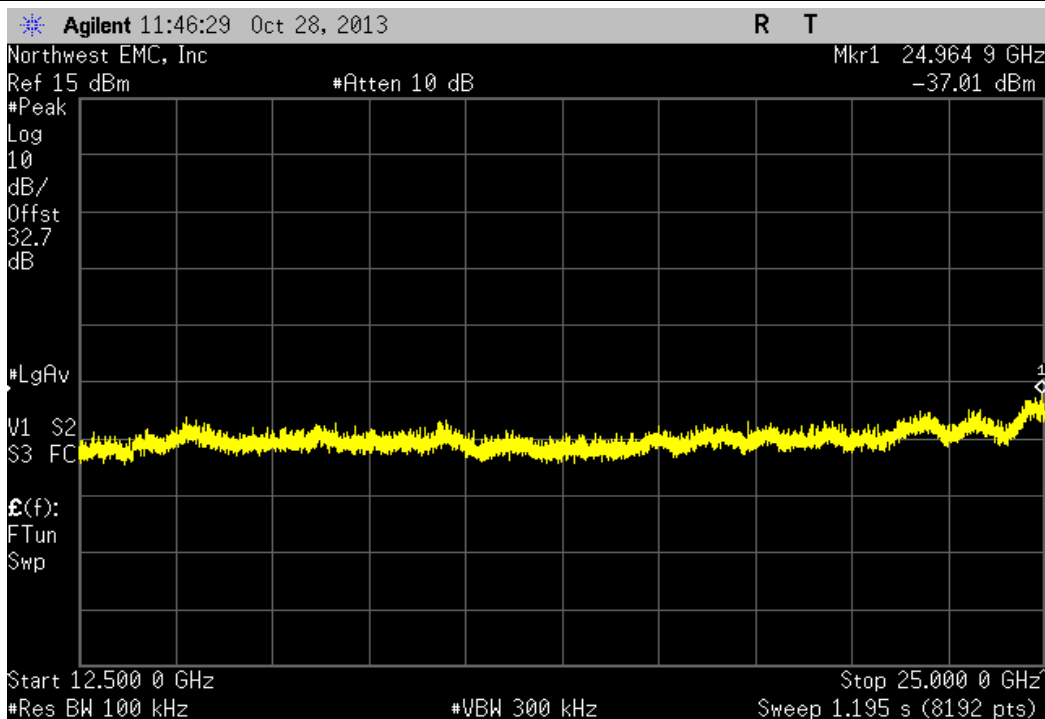
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



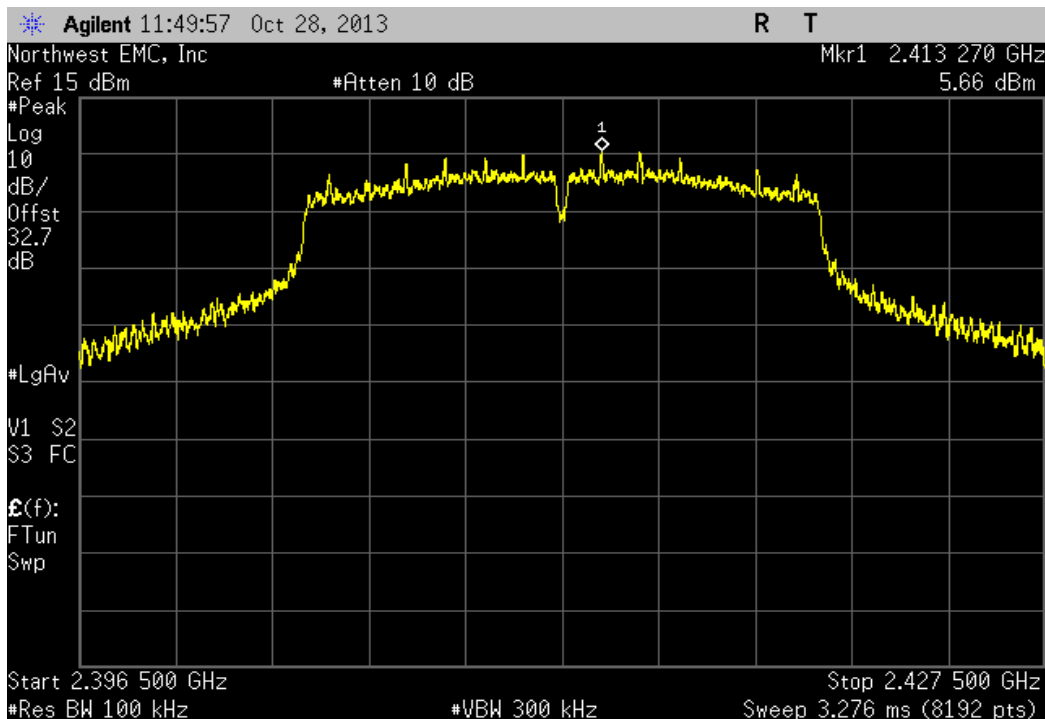
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.39 dBc	≤ -20 dBc	Pass



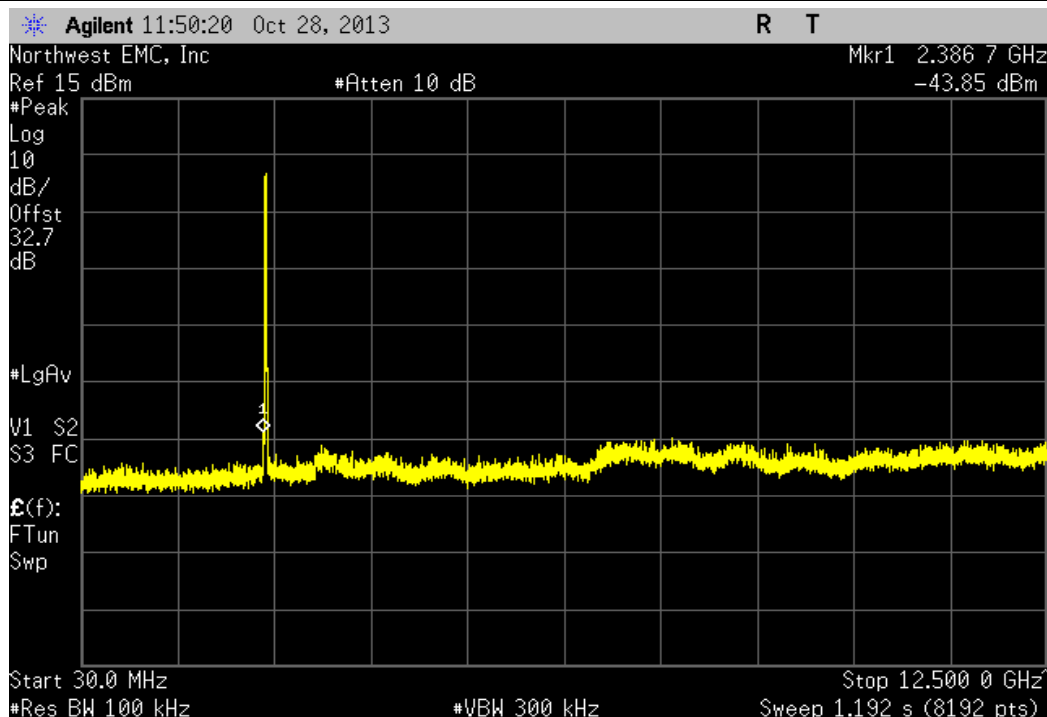
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-42.75 dBc	≤ -20 dBc	Pass



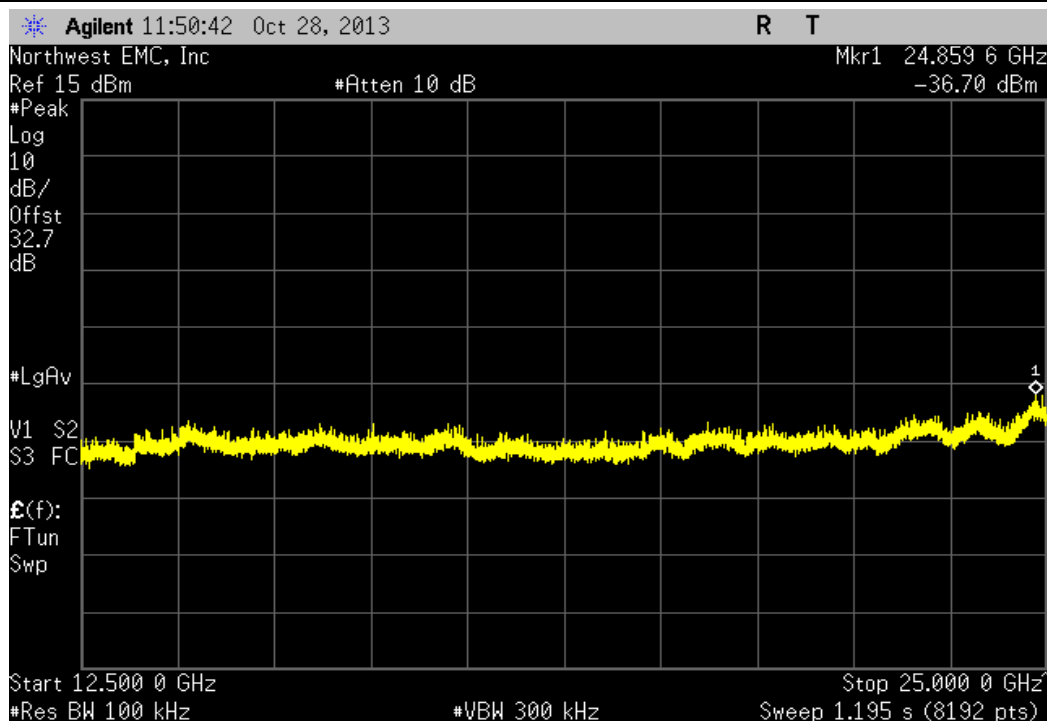
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



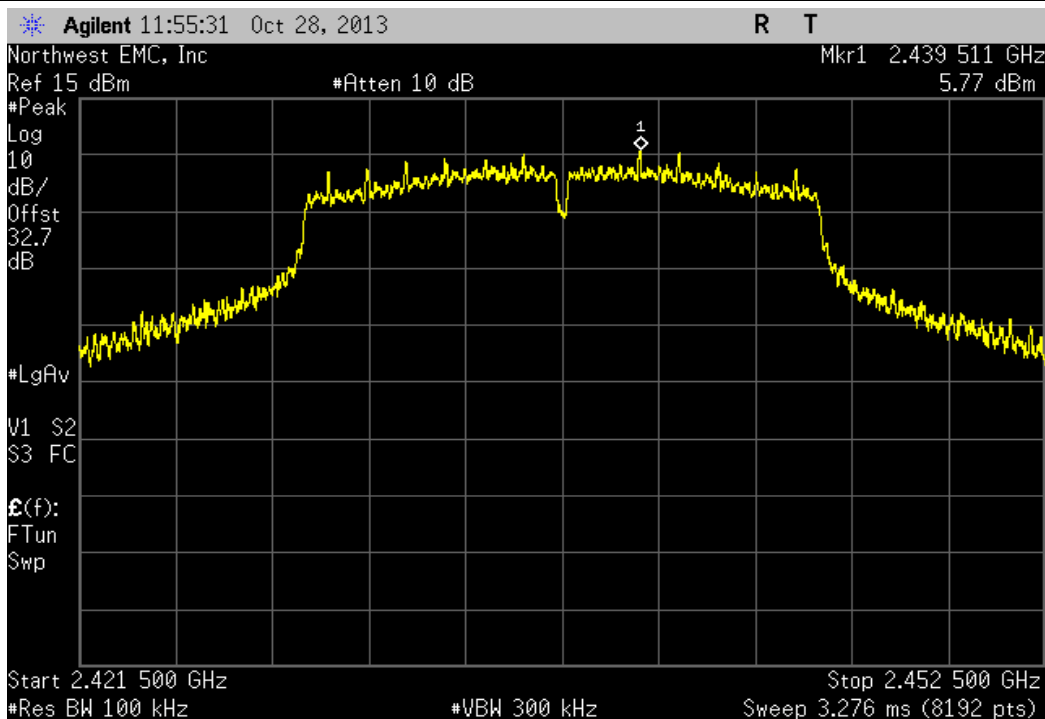
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.51 dBc	≤ -20 dBc	Pass	



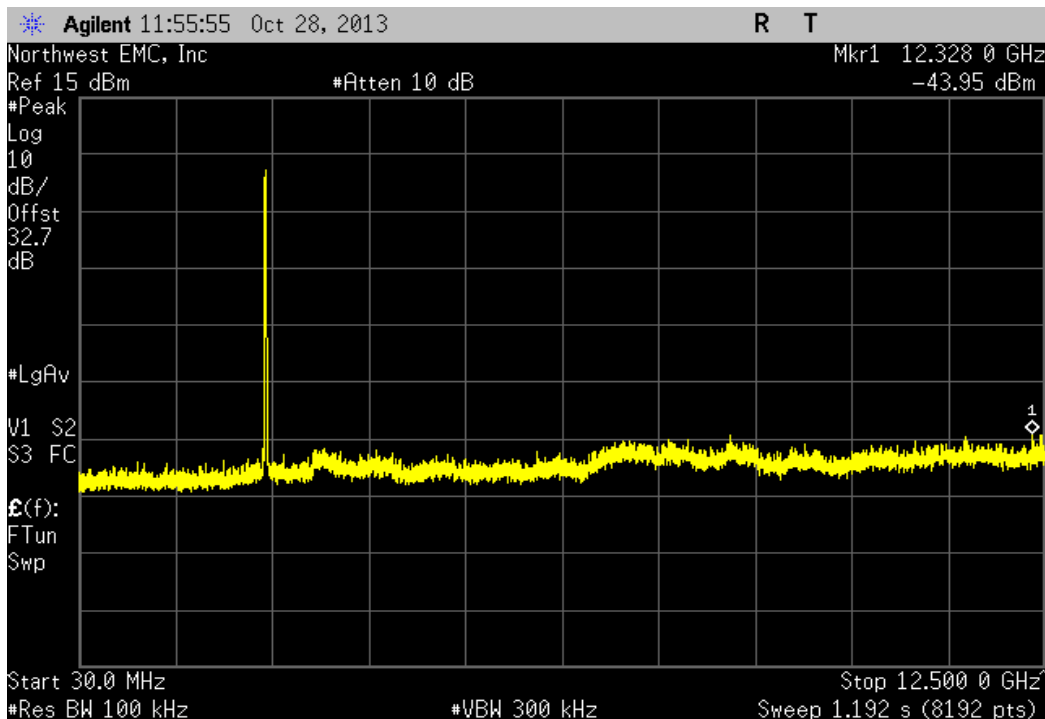
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-42.36 dBc	≤ -20 dBc	Pass	



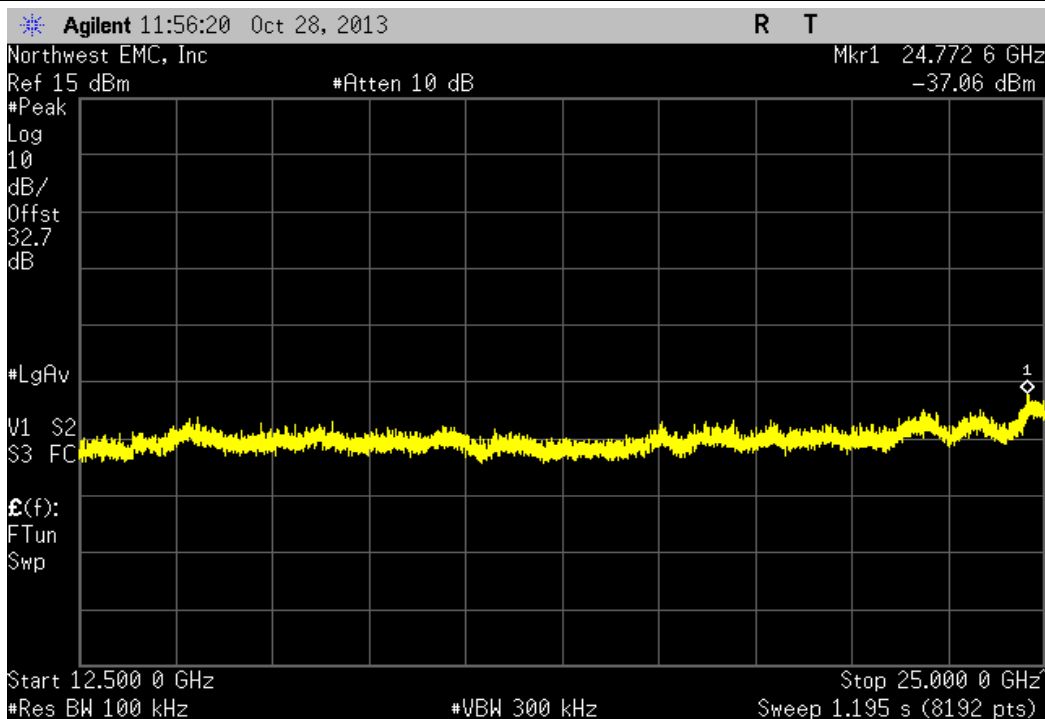
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



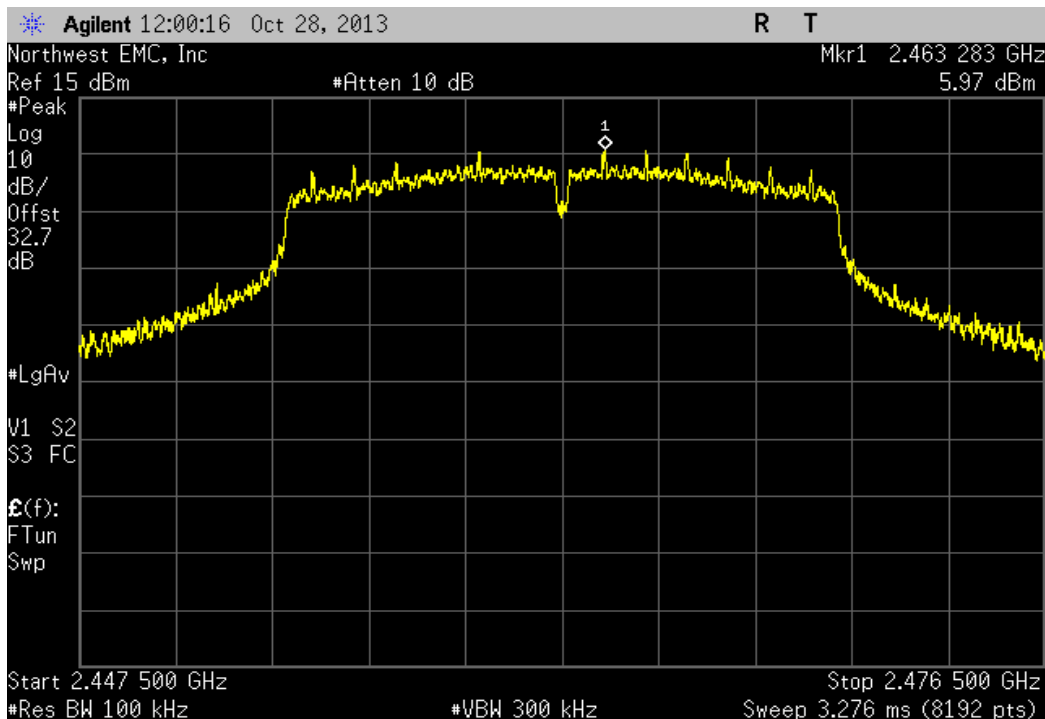
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-49.72 dBc	≤ -20 dBc	Pass



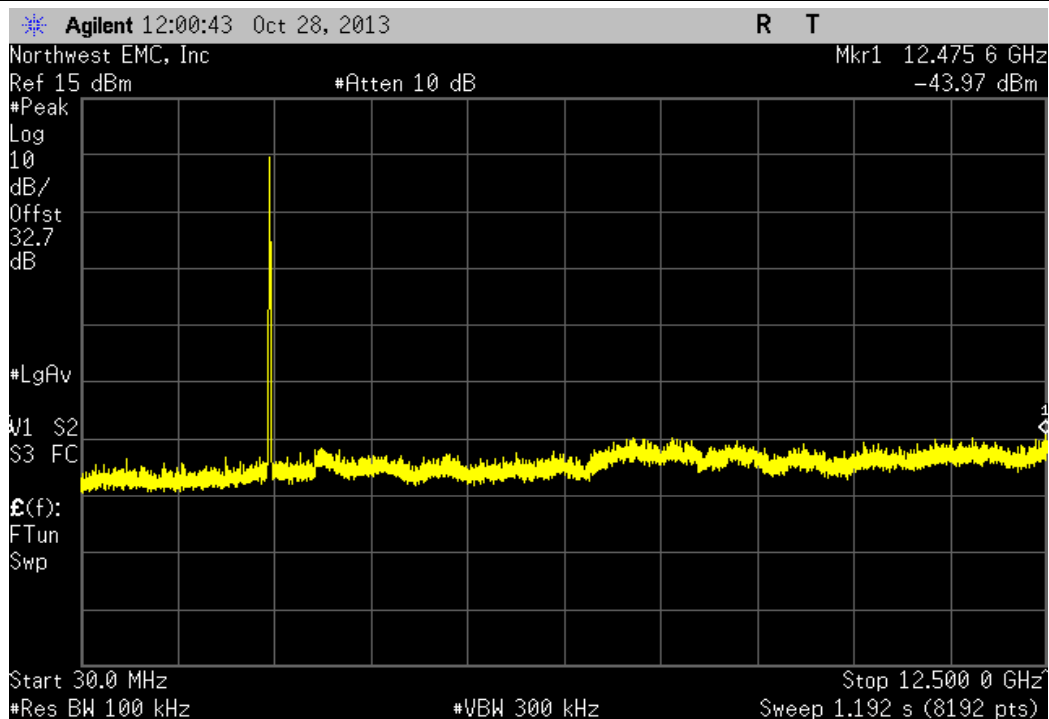
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-42.83 dBc	≤ -20 dBc	Pass



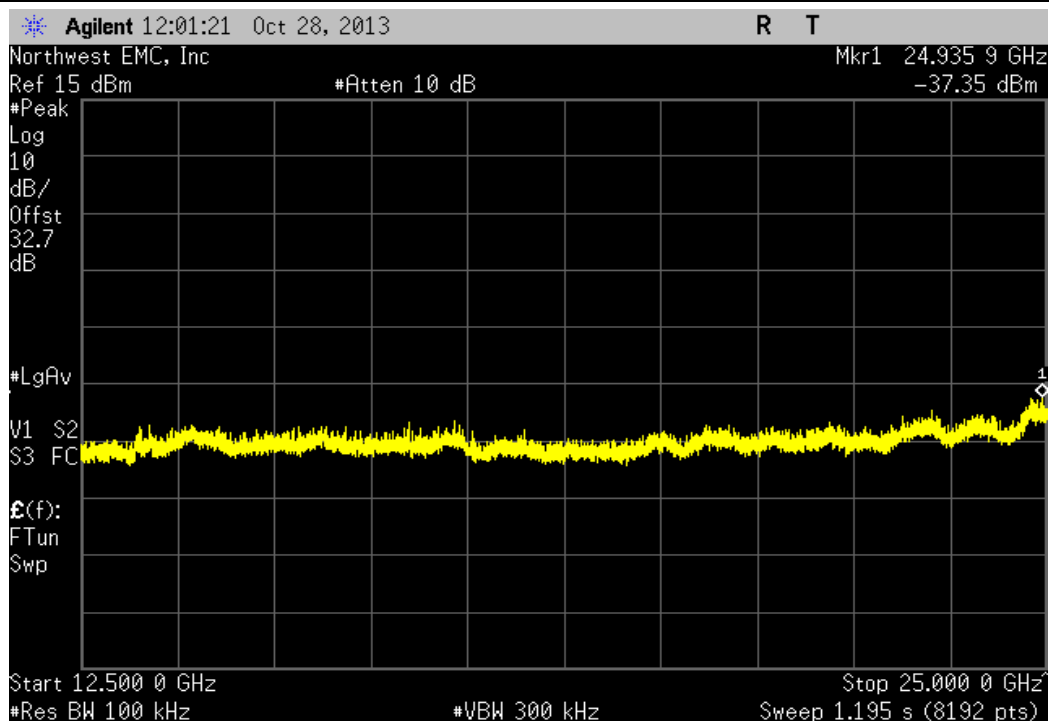
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



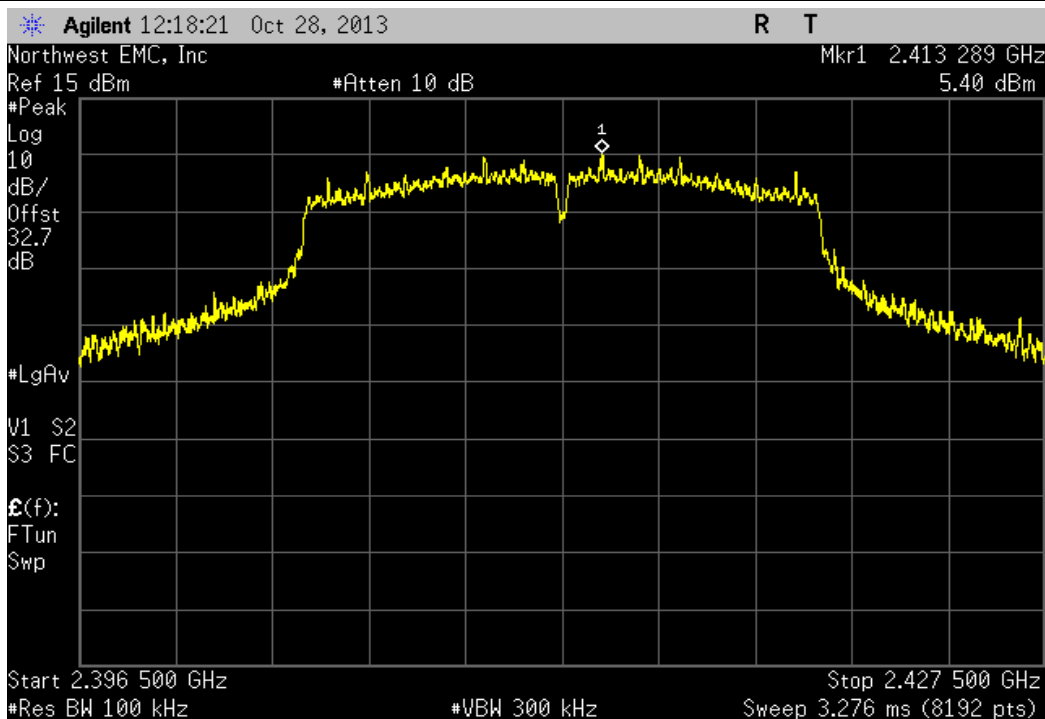
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.94 dBc	≤ -20 dBc	Pass	



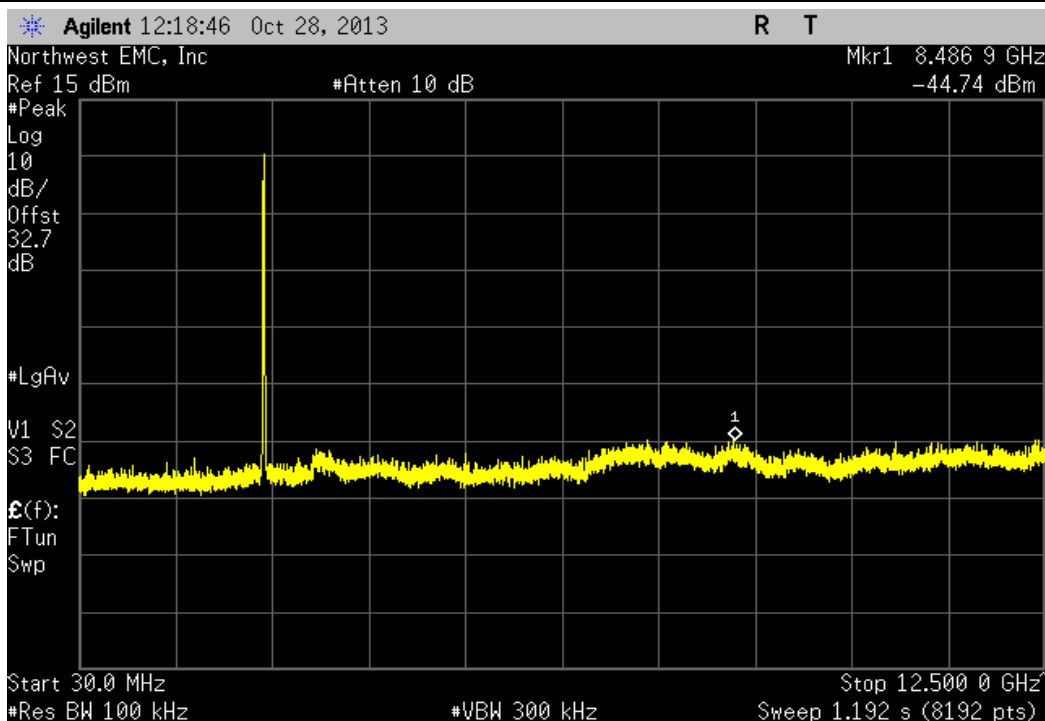
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.32 dBc	≤ -20 dBc	Pass	



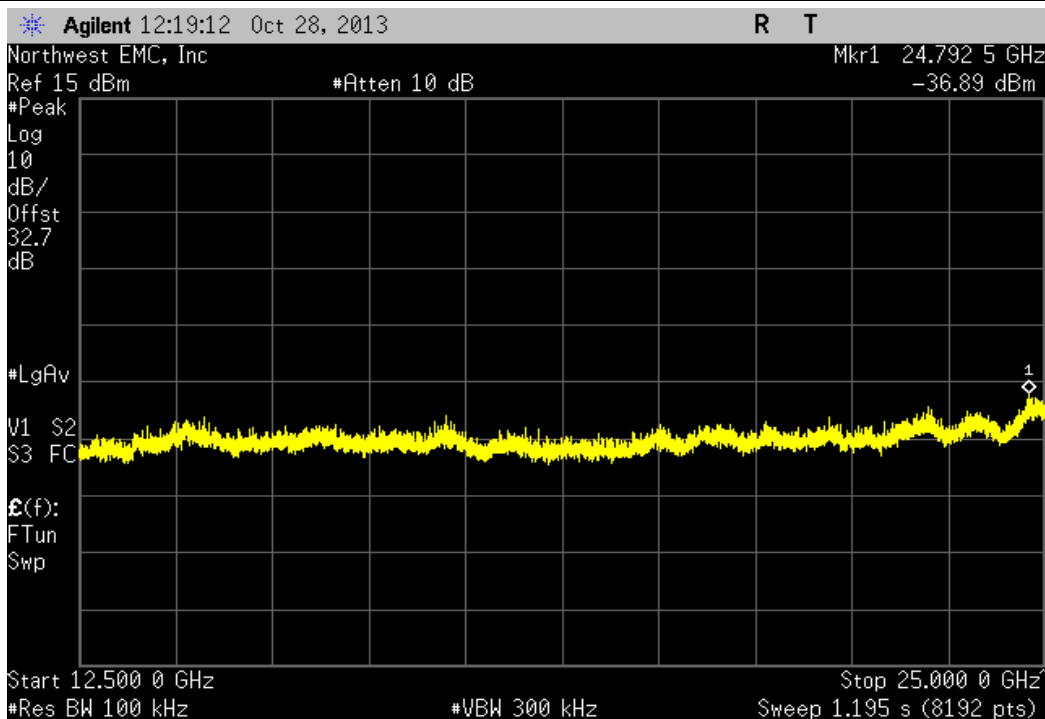
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



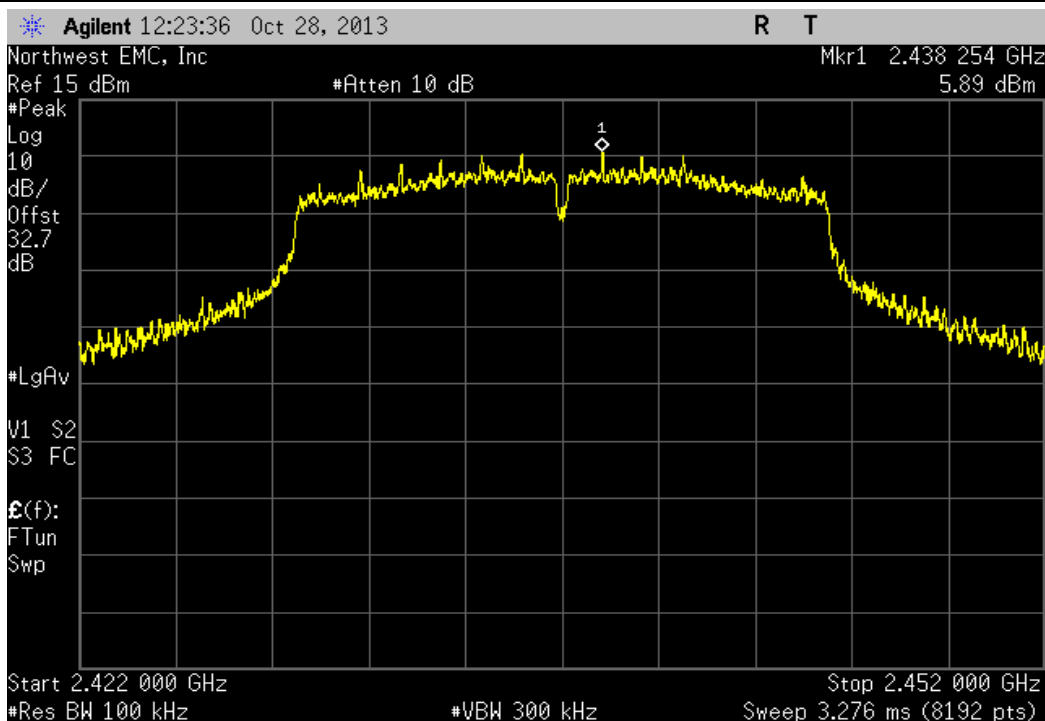
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.14 dBc	≤ -20 dBc	Pass



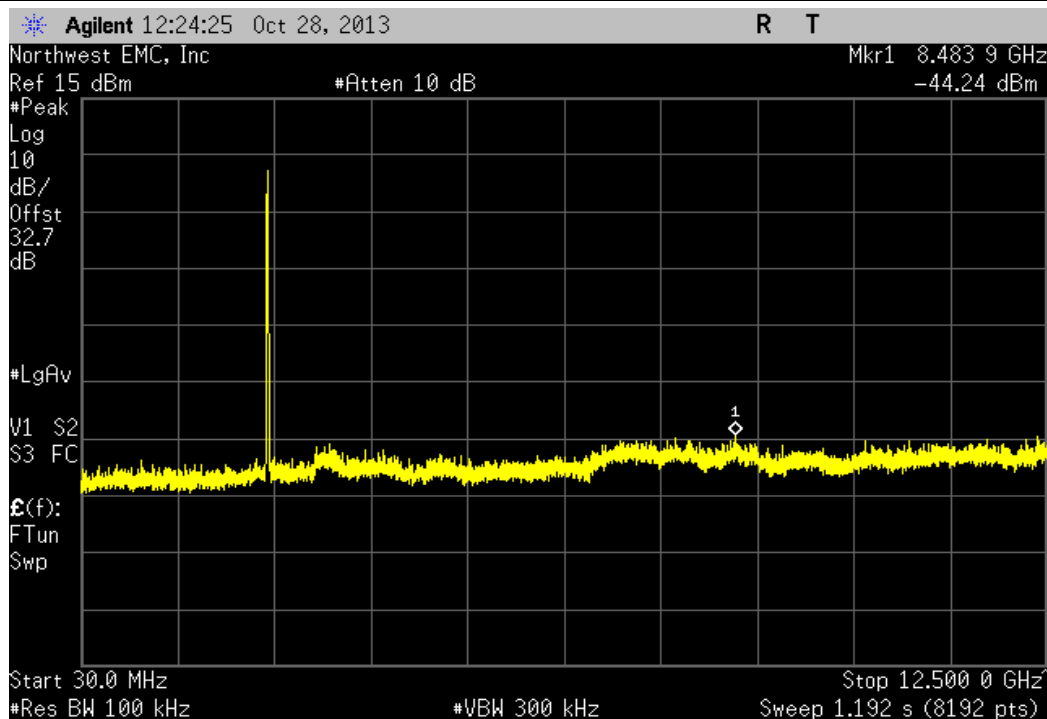
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-42.29 dBc	≤ -20 dBc	Pass	



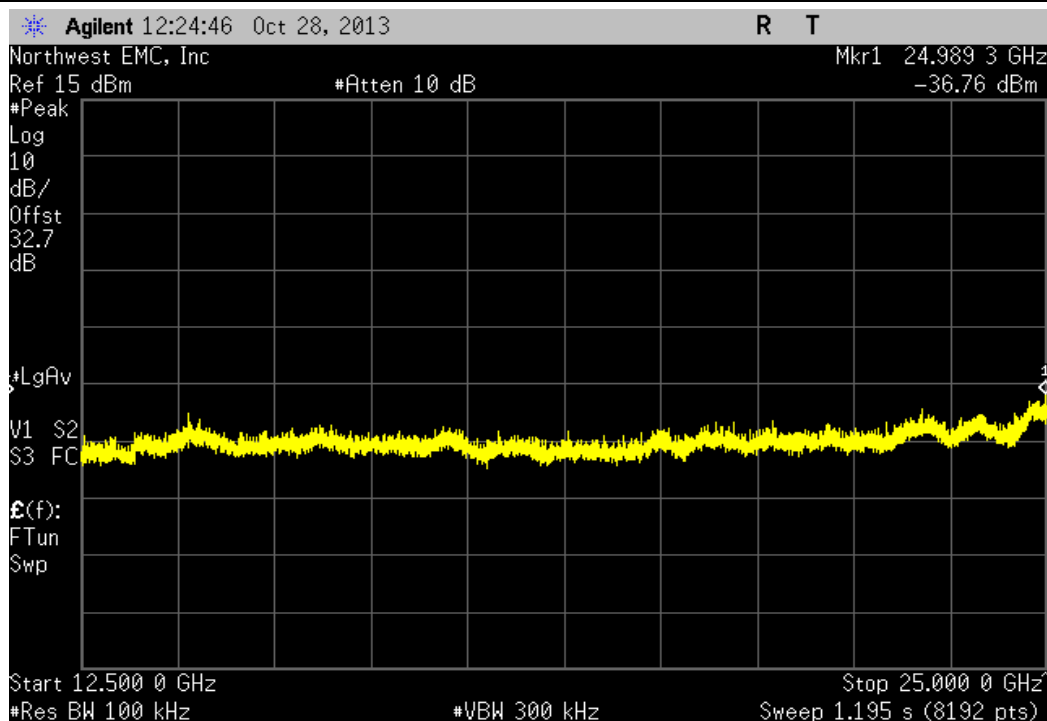
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



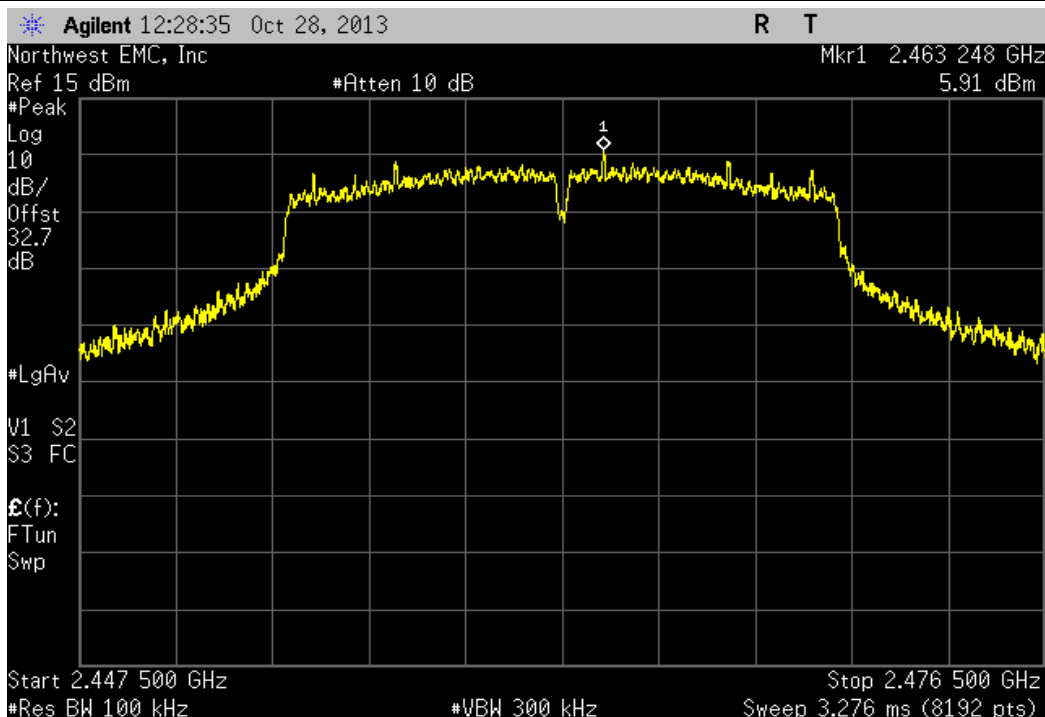
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.14 dBc	≤ -20 dBc	Pass	



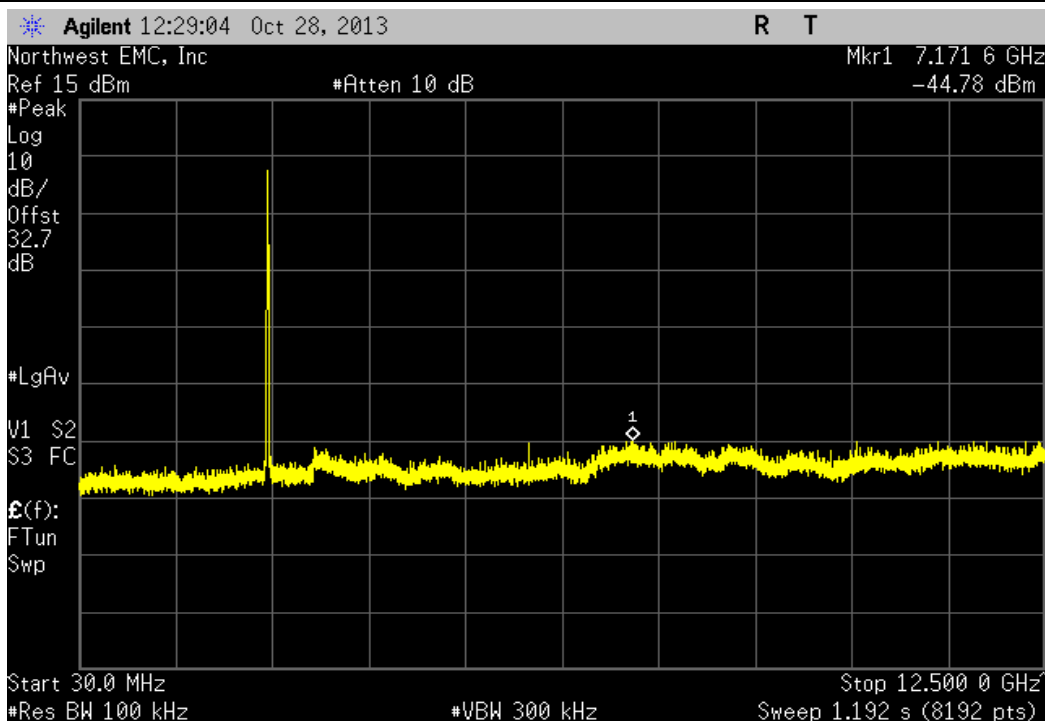
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-42.65 dBc	≤ -20 dBc	Pass	



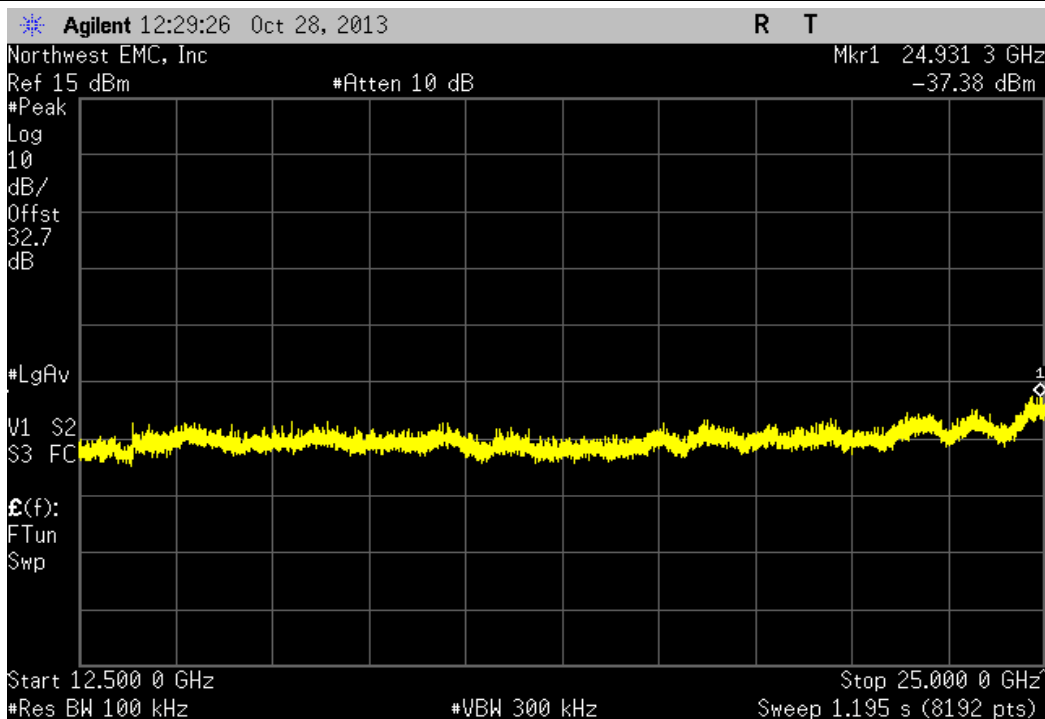
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



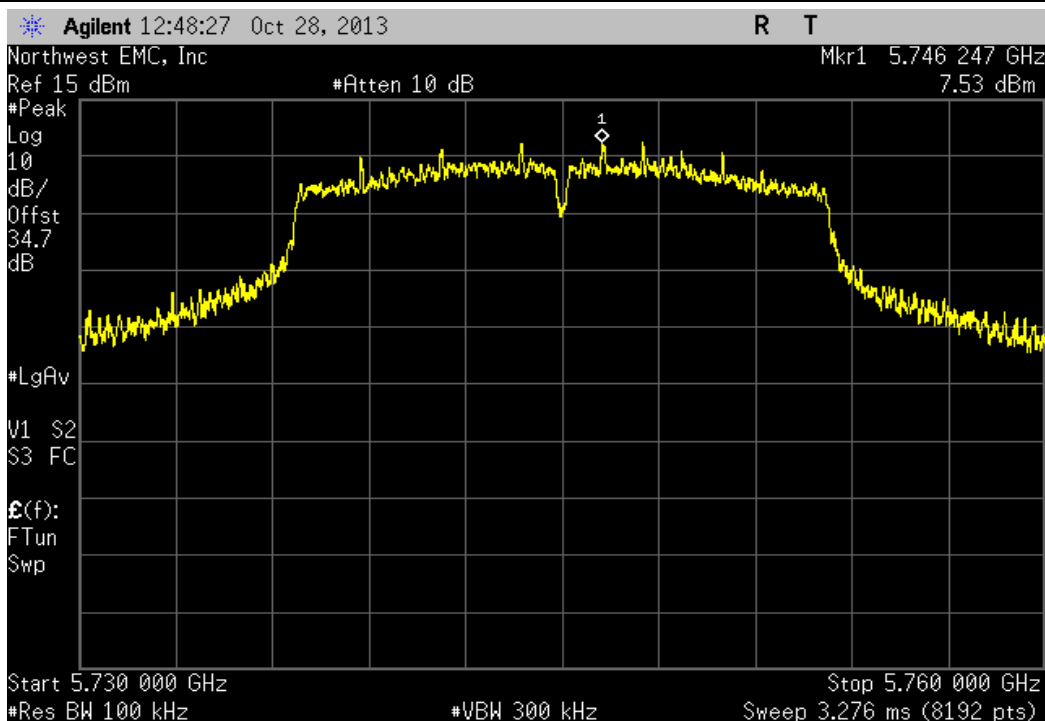
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.68 dBc	≤ -20 dBc	Pass



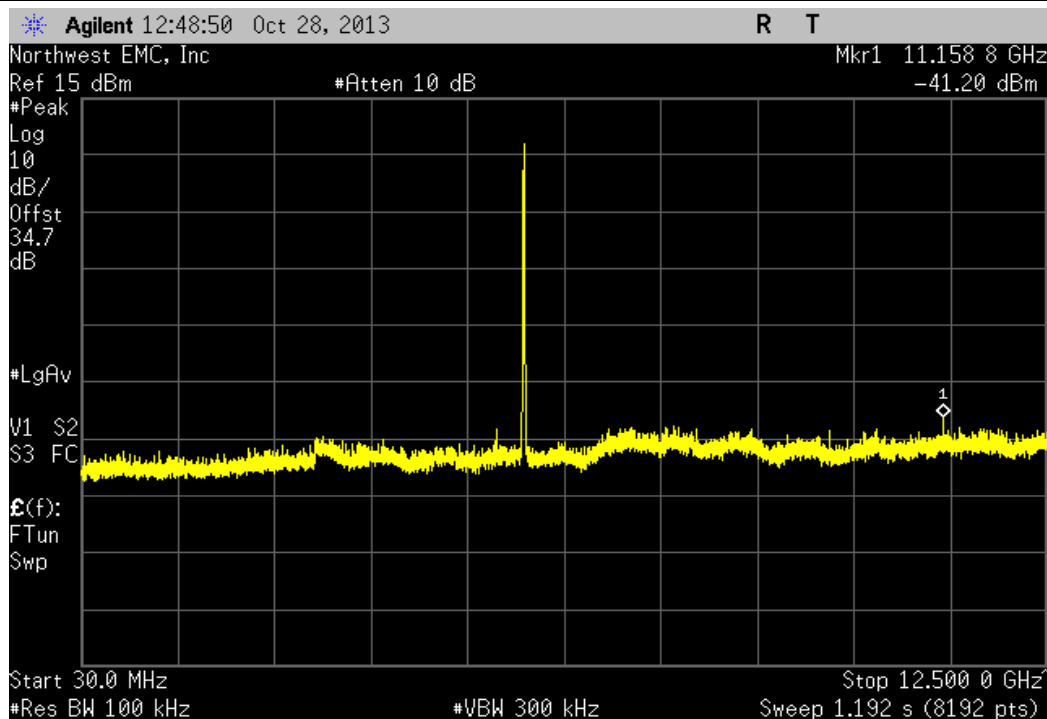
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-43.29 dBc	≤ -20 dBc	Pass



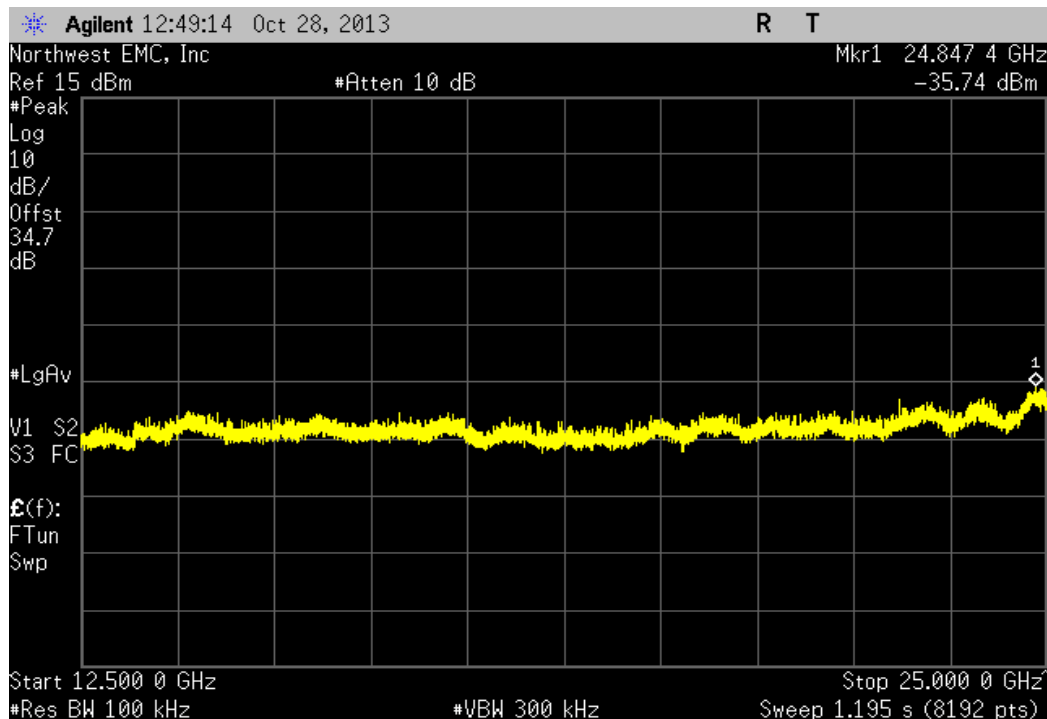
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



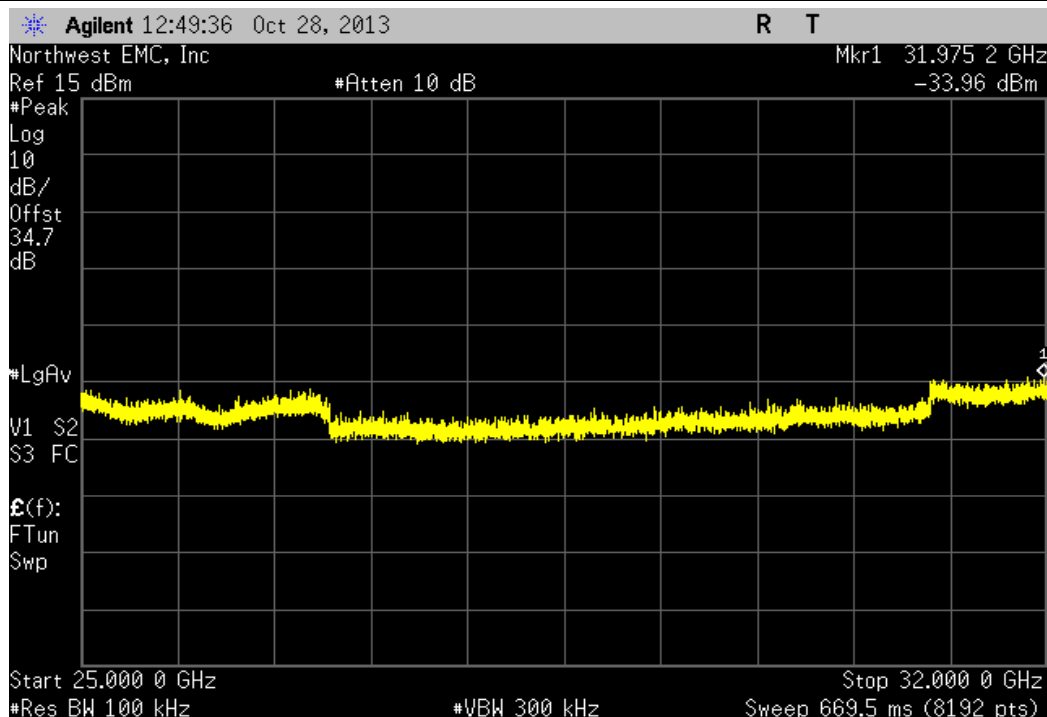
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-48.73 dBc	≤ -20 dBc	Pass	



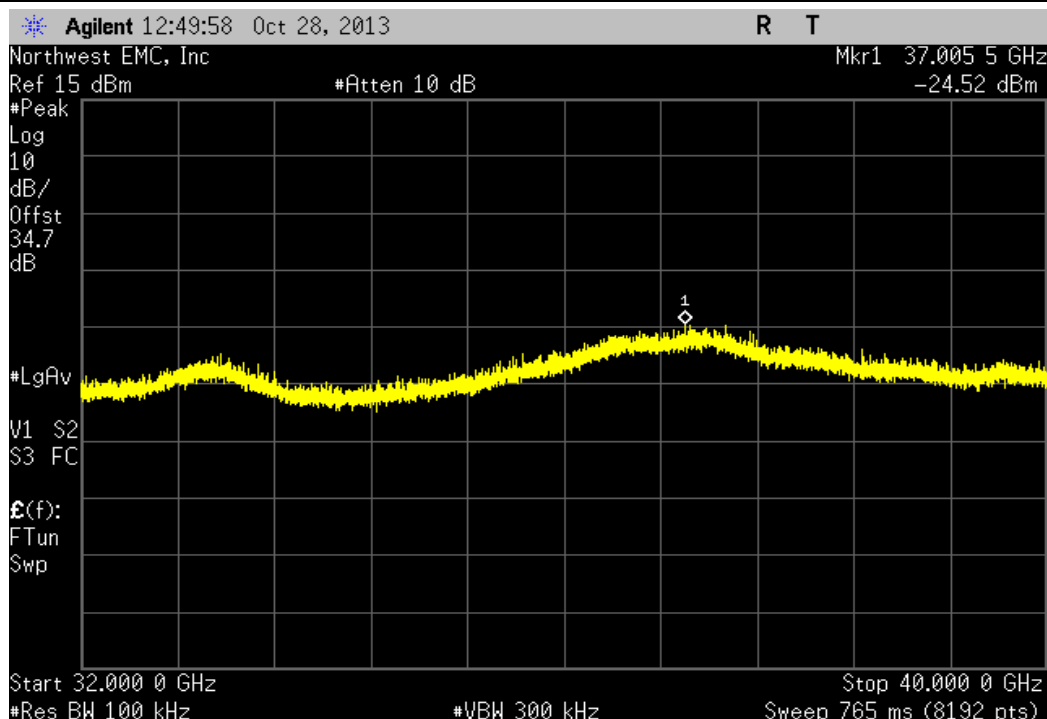
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.27 dBc	≤ -20 dBc	Pass	



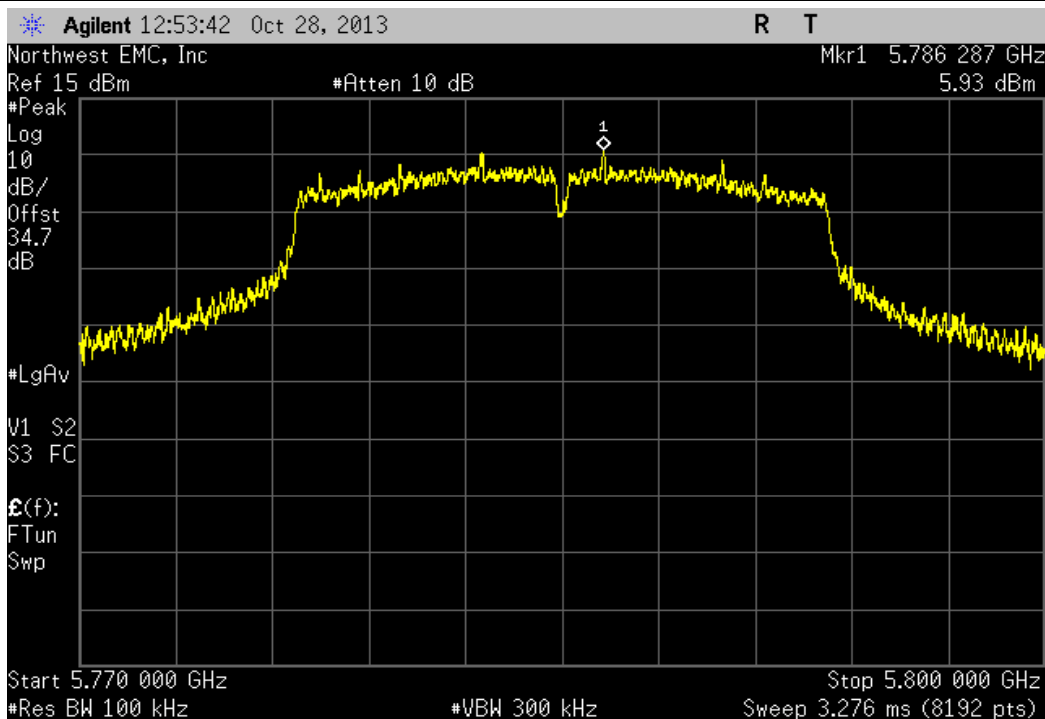
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-41.49 dBc	≤ -20 dBc	Pass	



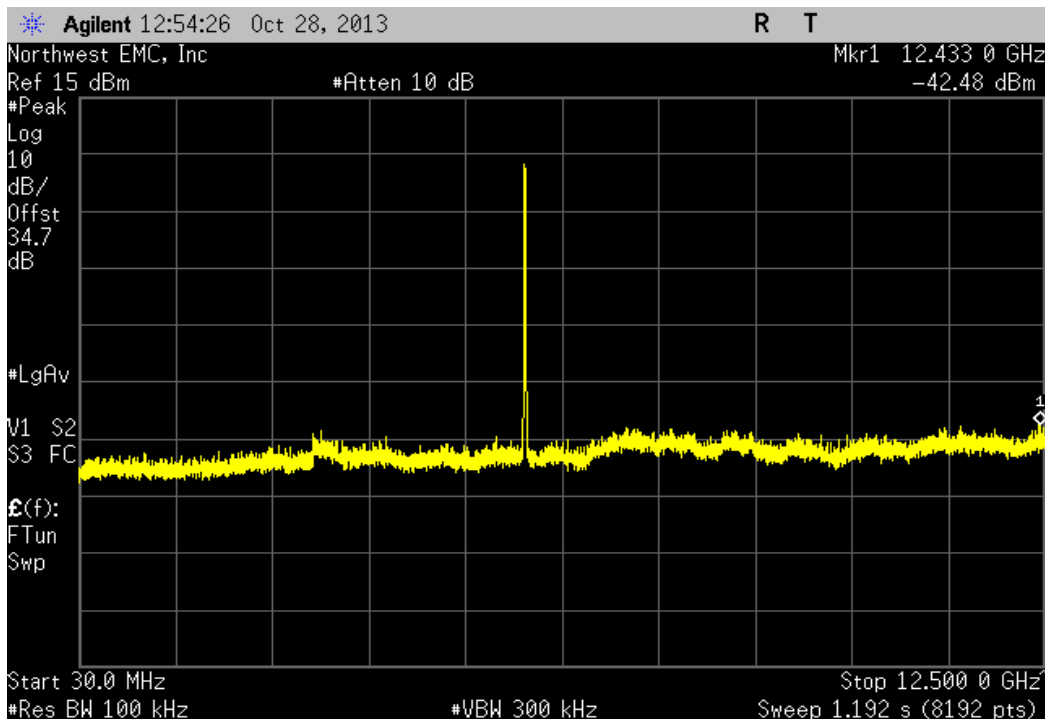
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-32.05 dBc	≤ -20 dBc	Pass	



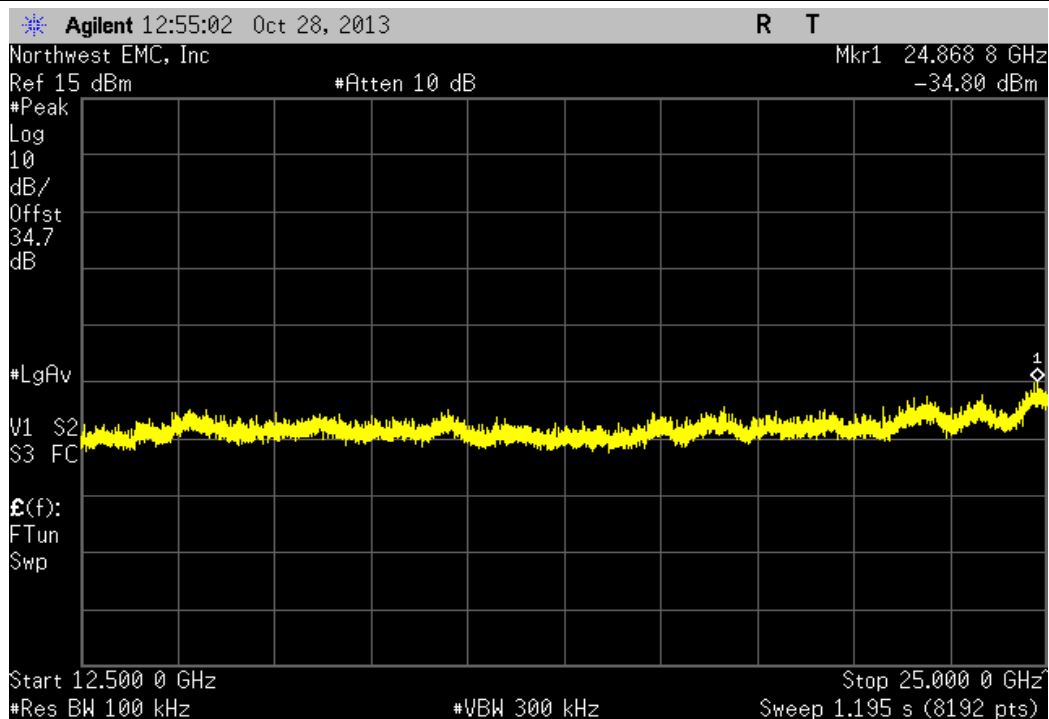
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



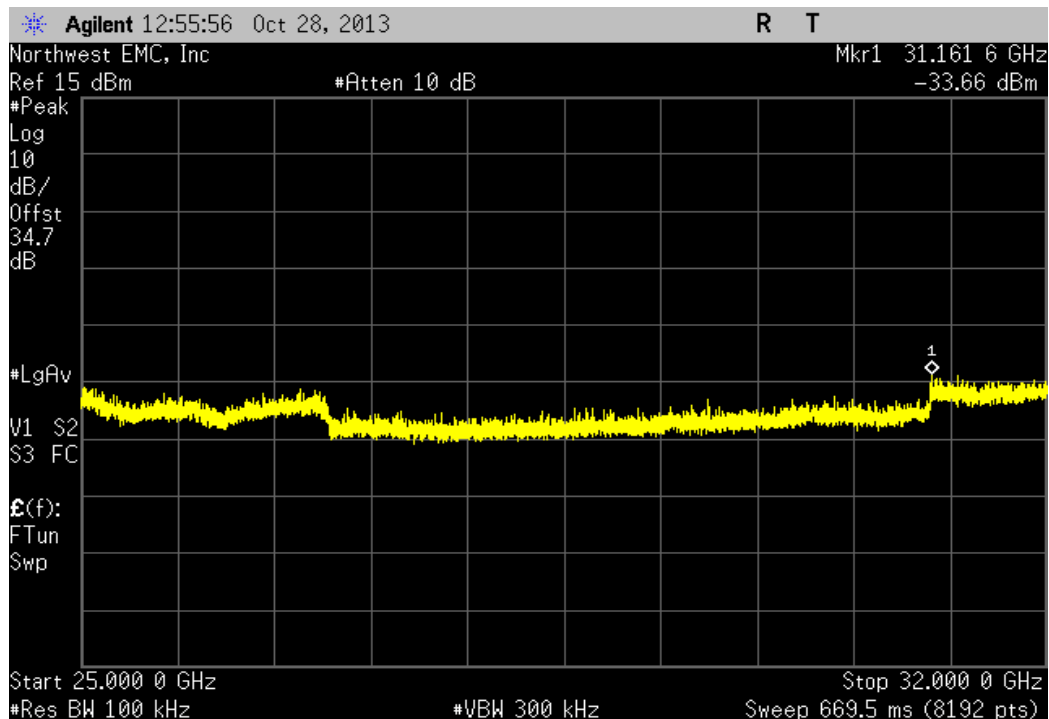
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.41 dBc	≤ -20 dBc	Pass



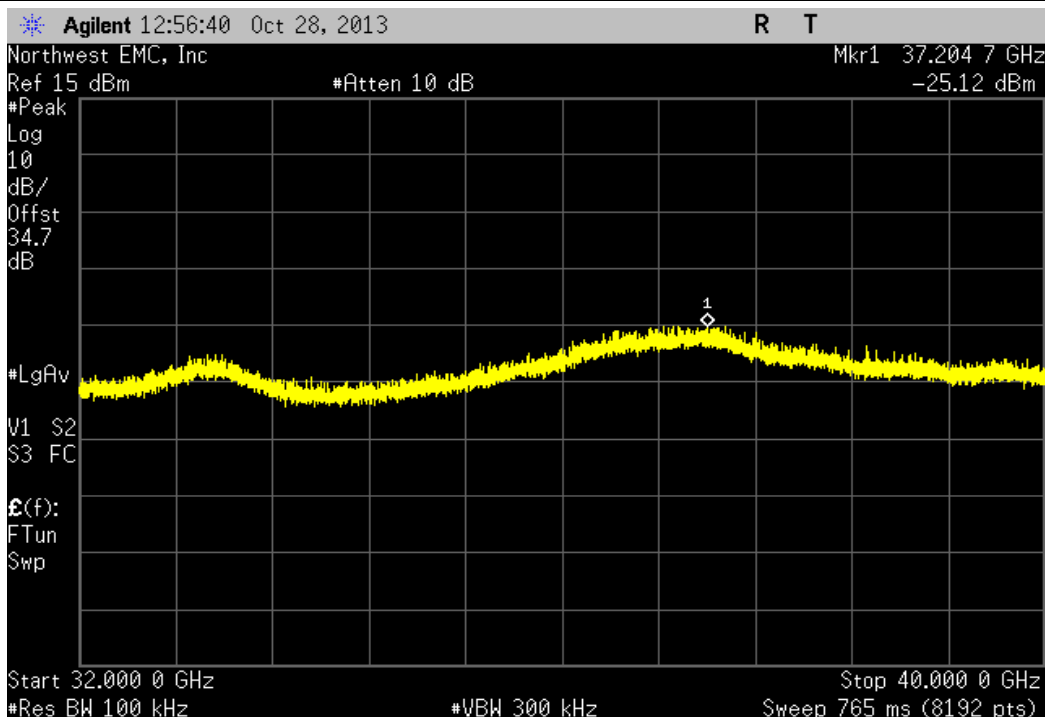
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-40.73 dBc	≤ -20 dBc	Pass



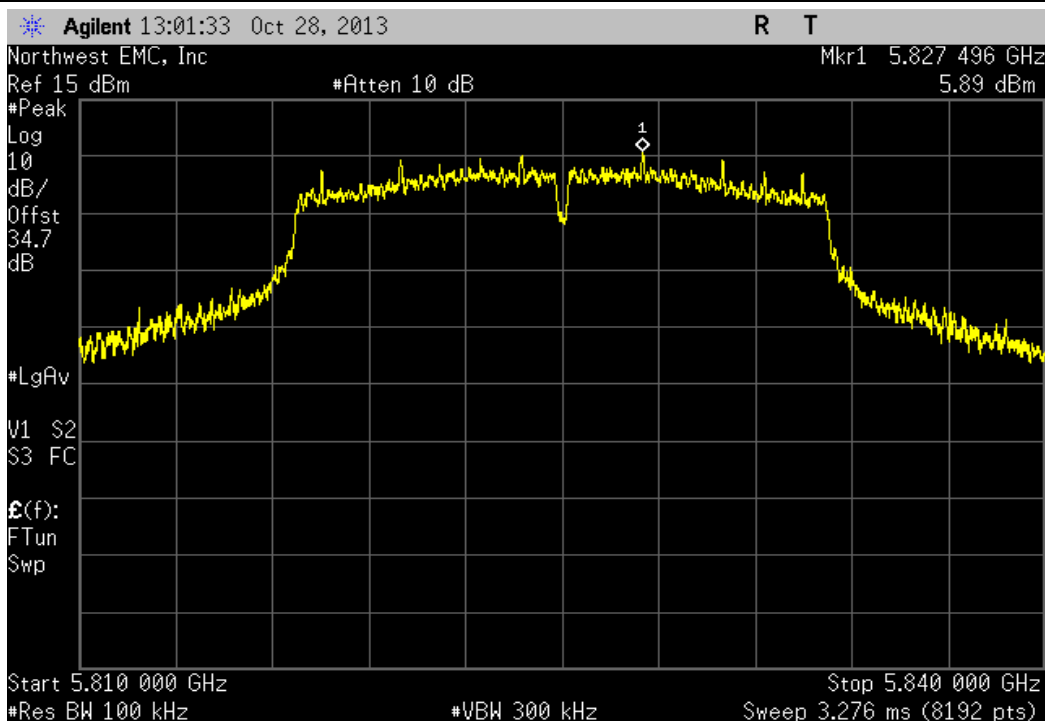
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-39.59 dBc	≤ -20 dBc	Pass



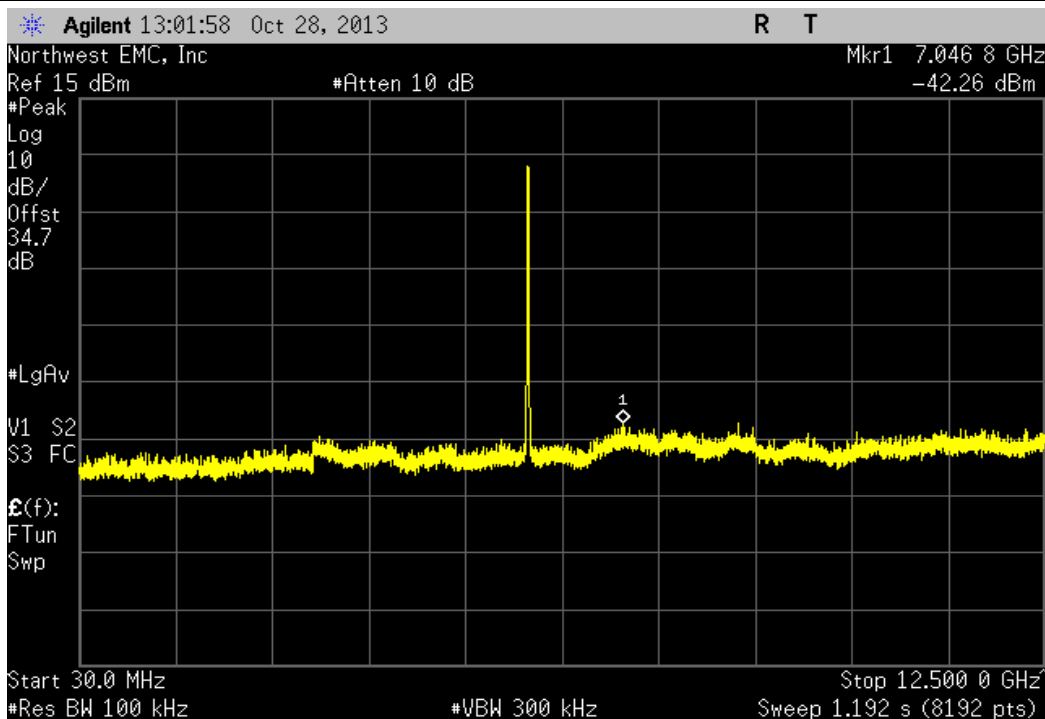
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-31.05 dBc	≤ -20 dBc	Pass



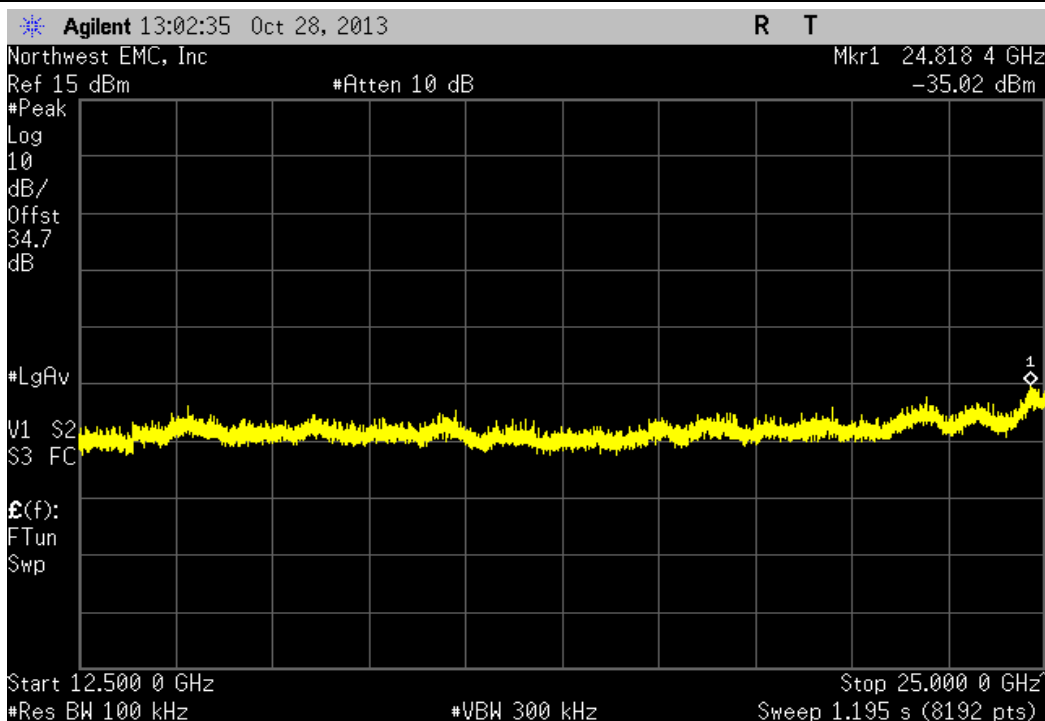
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



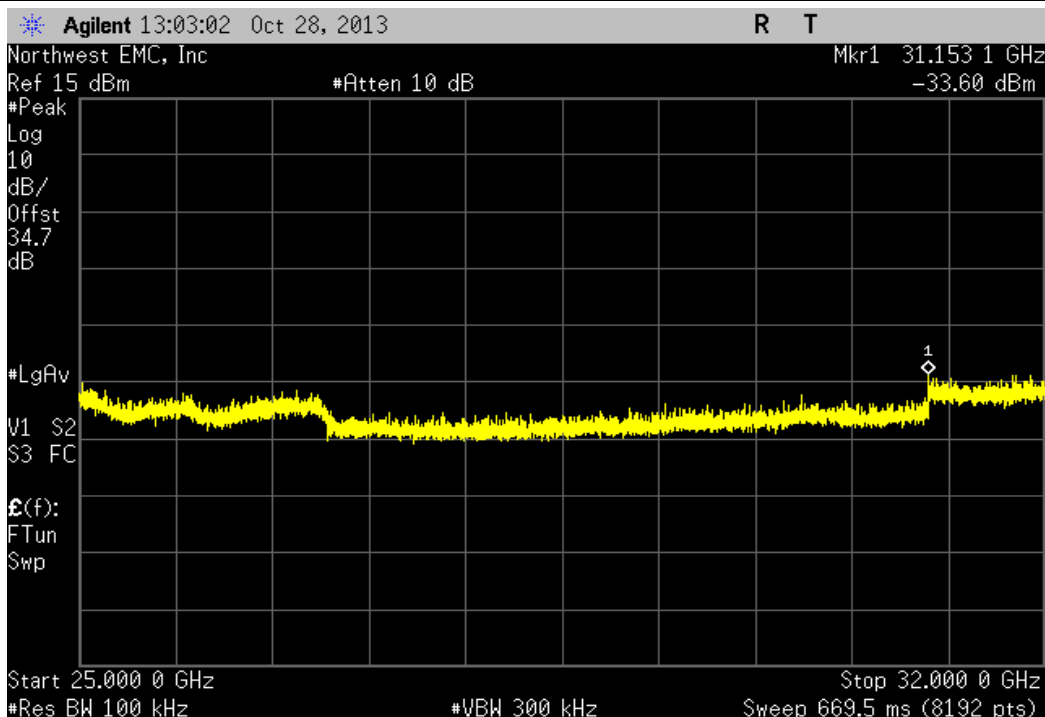
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-48.15 dBc	≤ -20 dBc	Pass	



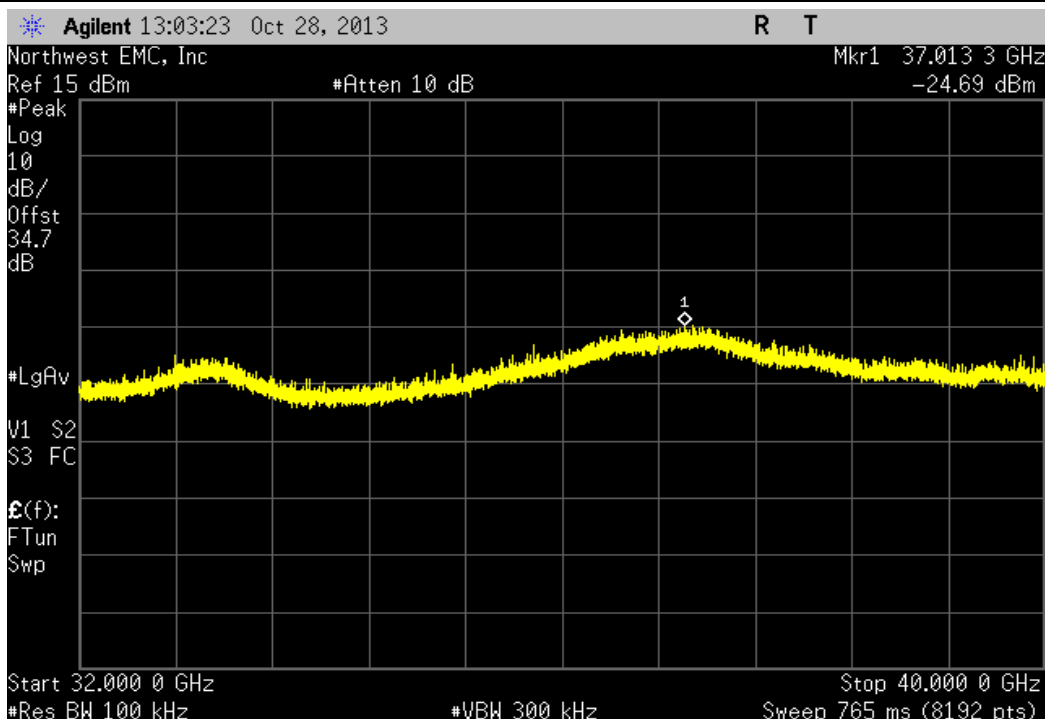
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-40.91 dBc	≤ -20 dBc	Pass	



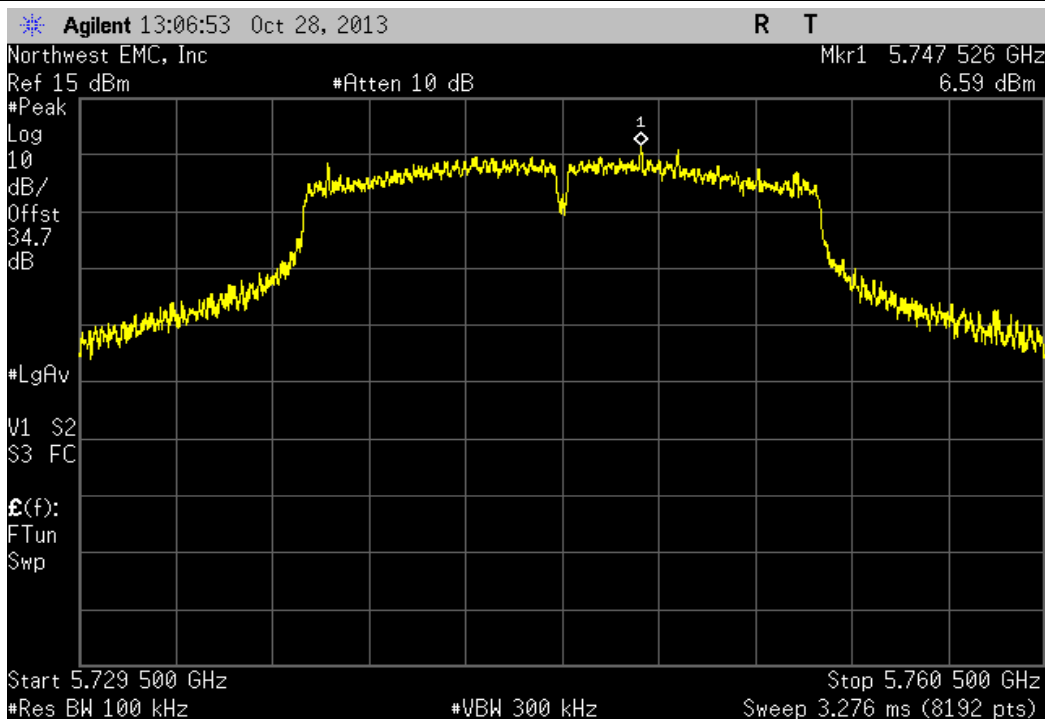
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-39.5 dBc	≤ -20 dBc	Pass	



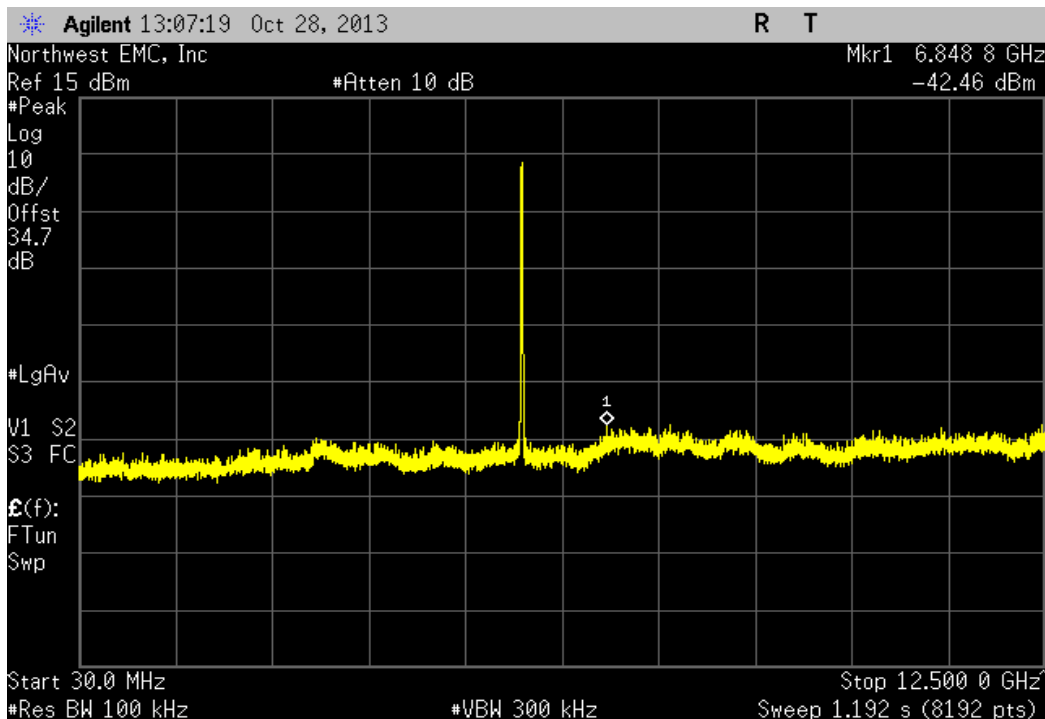
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-30.58 dBc	≤ -20 dBc	Pass	



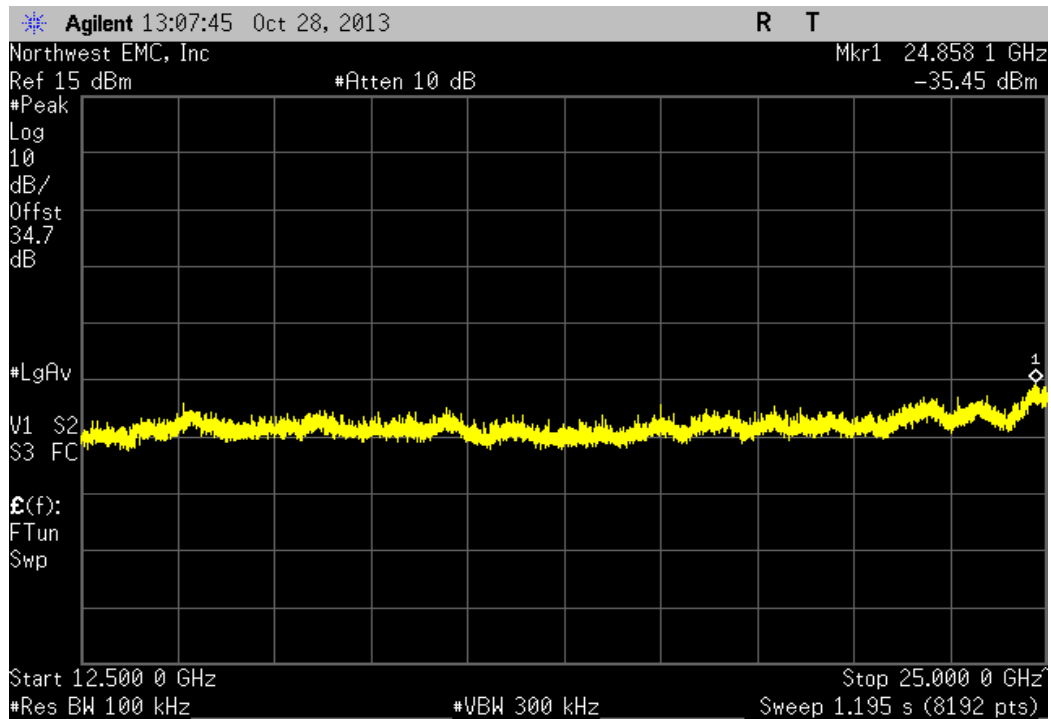
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



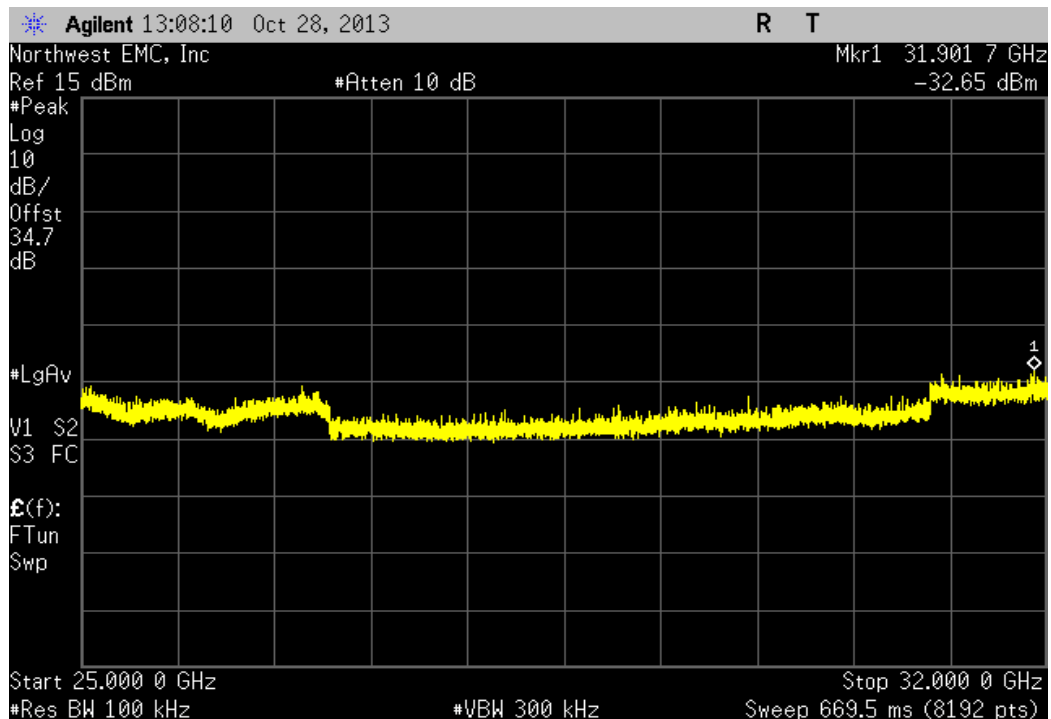
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-49.05 dBc	≤ -20 dBc	Pass



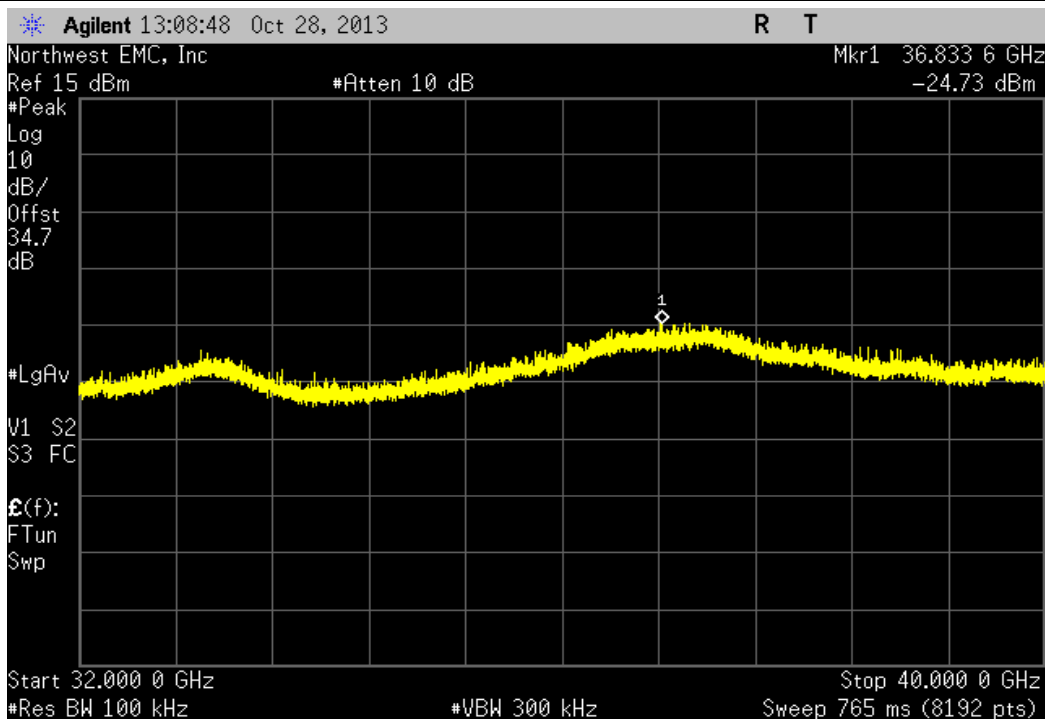
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-42.04 dBc	≤ -20 dBc	Pass



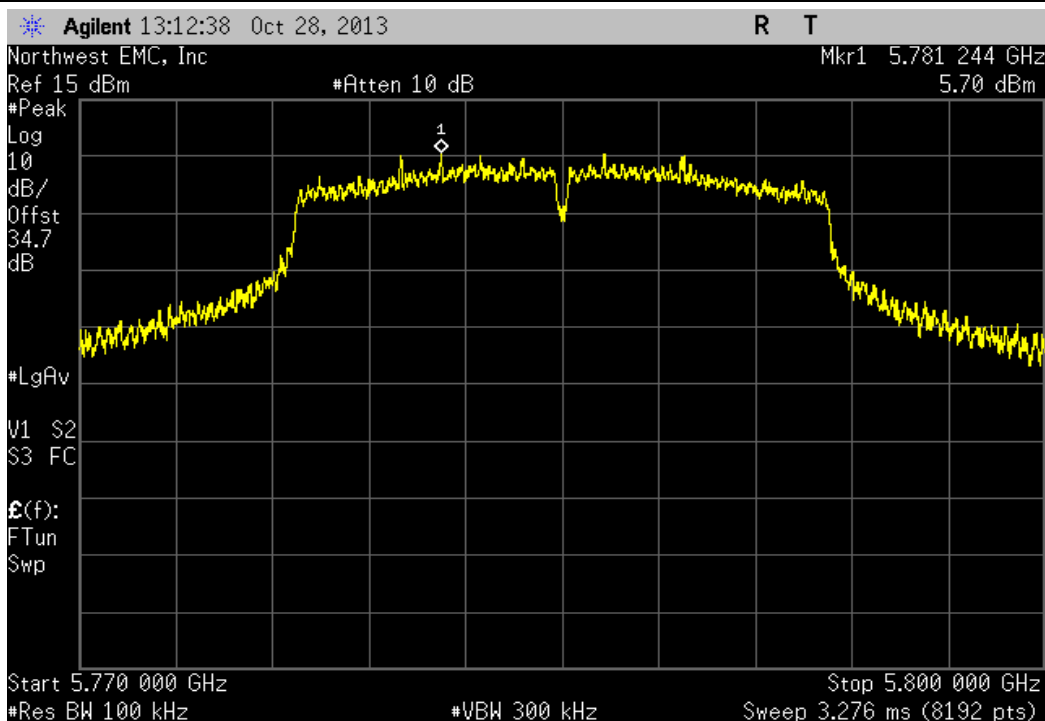
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-39.25 dBc	≤ -20 dBc	Pass



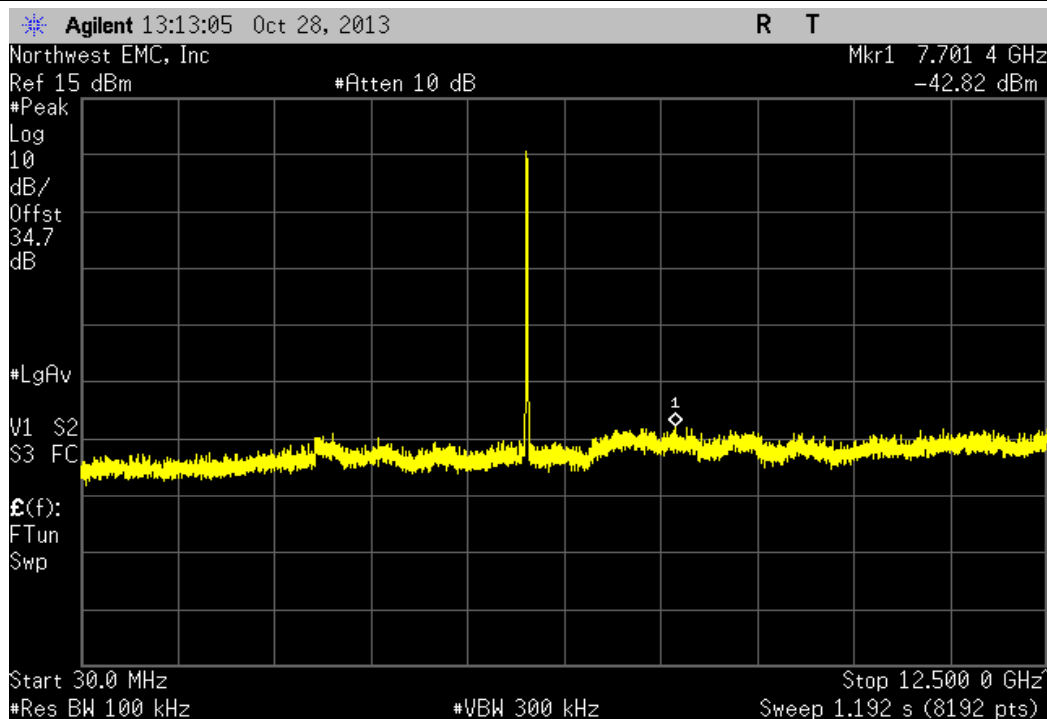
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-31.32 dBc	≤ -20 dBc	Pass



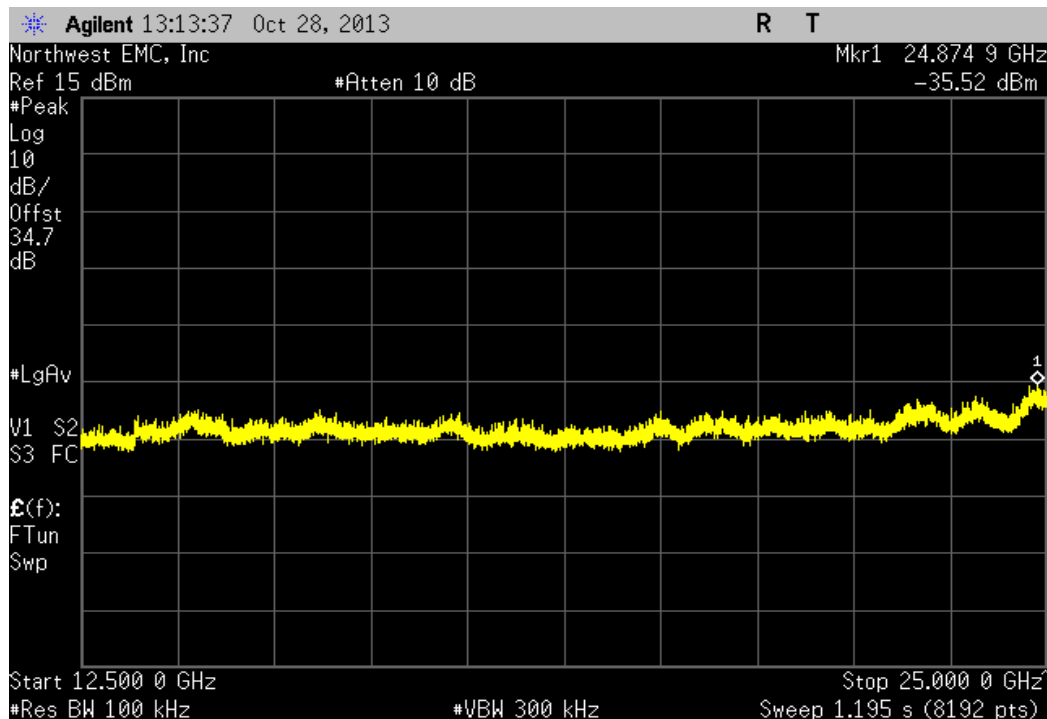
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



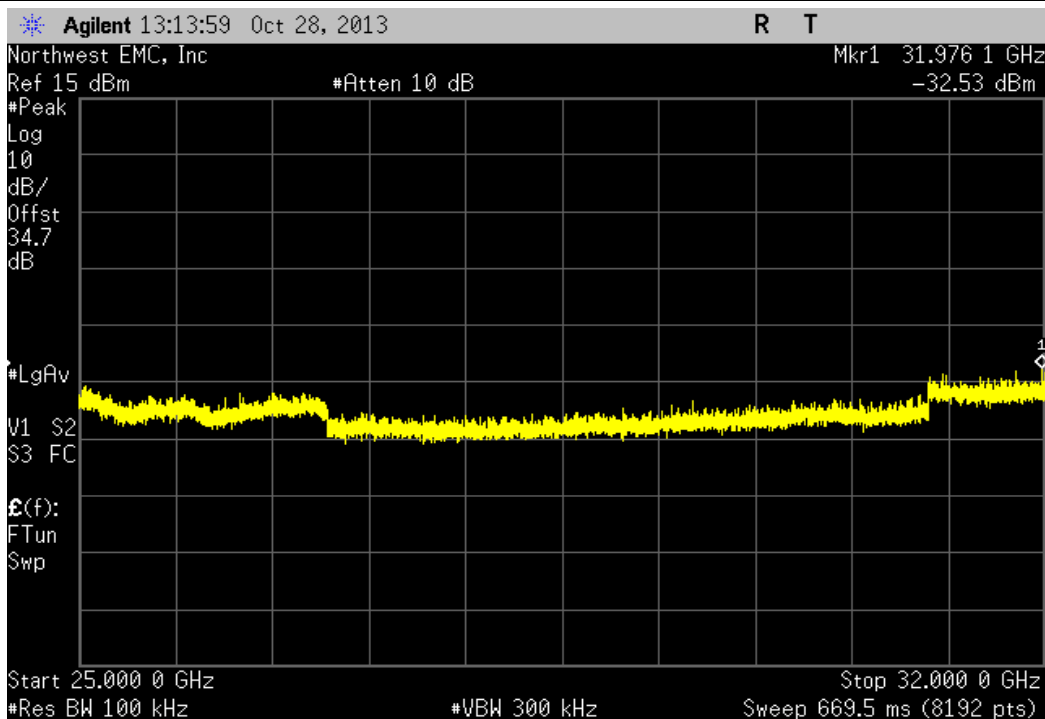
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-48.52 dBc	≤ -20 dBc	Pass	



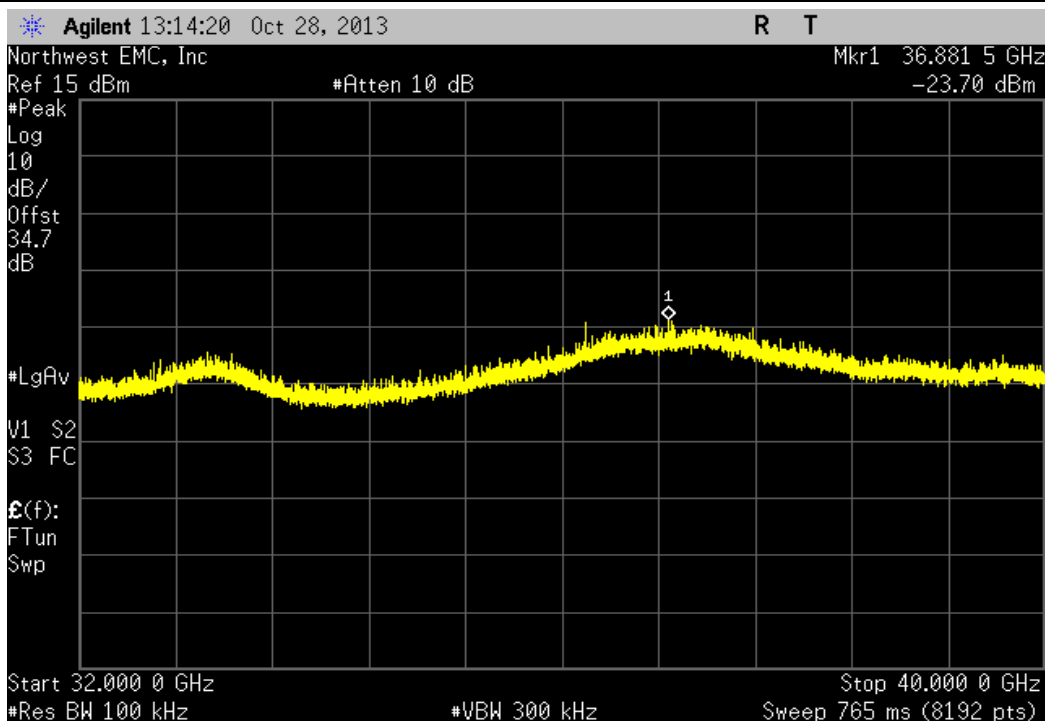
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-41.22 dBc	≤ -20 dBc	Pass	



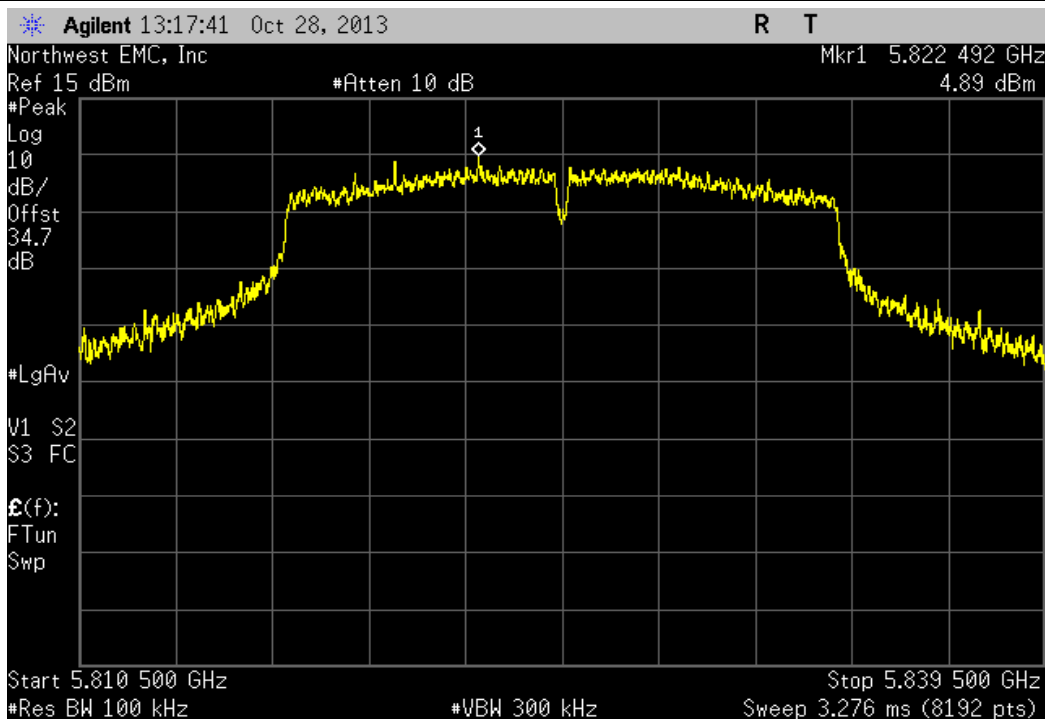
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-38.23 dBc	≤ -20 dBc	Pass	



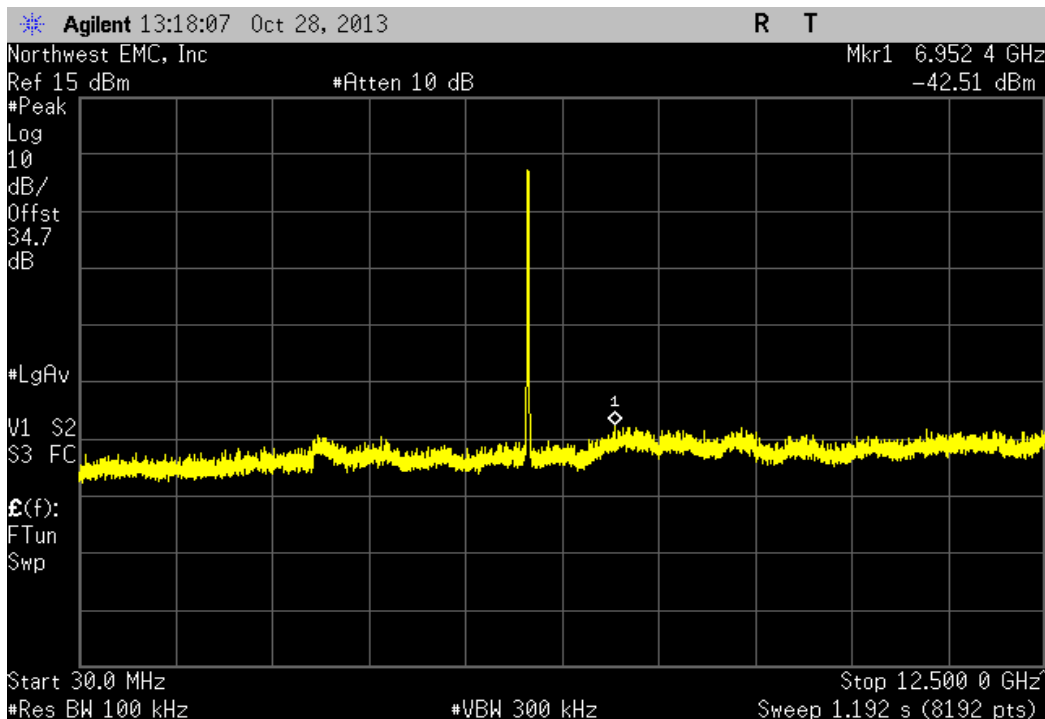
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-29.4 dBc	≤ -20 dBc	Pass	



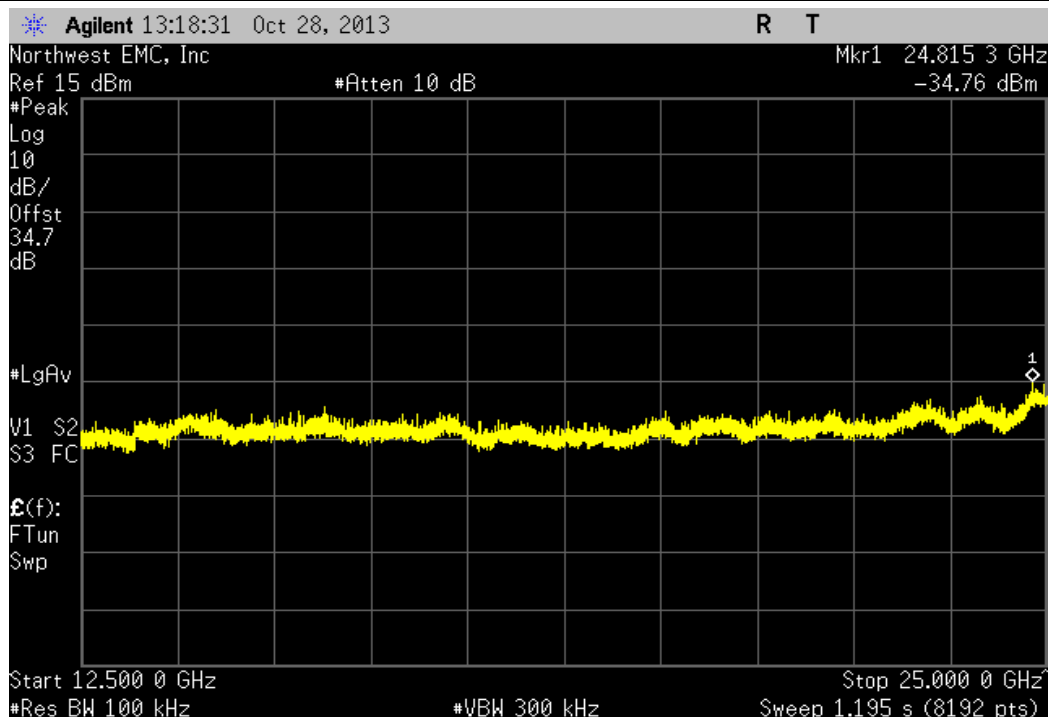
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



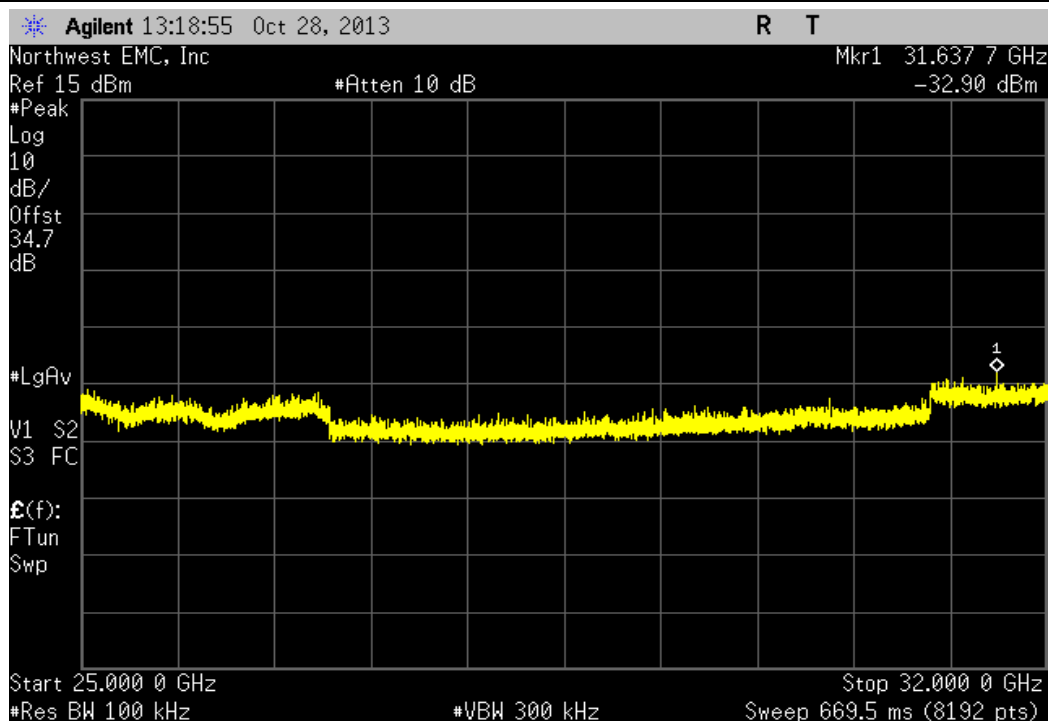
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-47.4 dBc	≤ -20 dBc	Pass



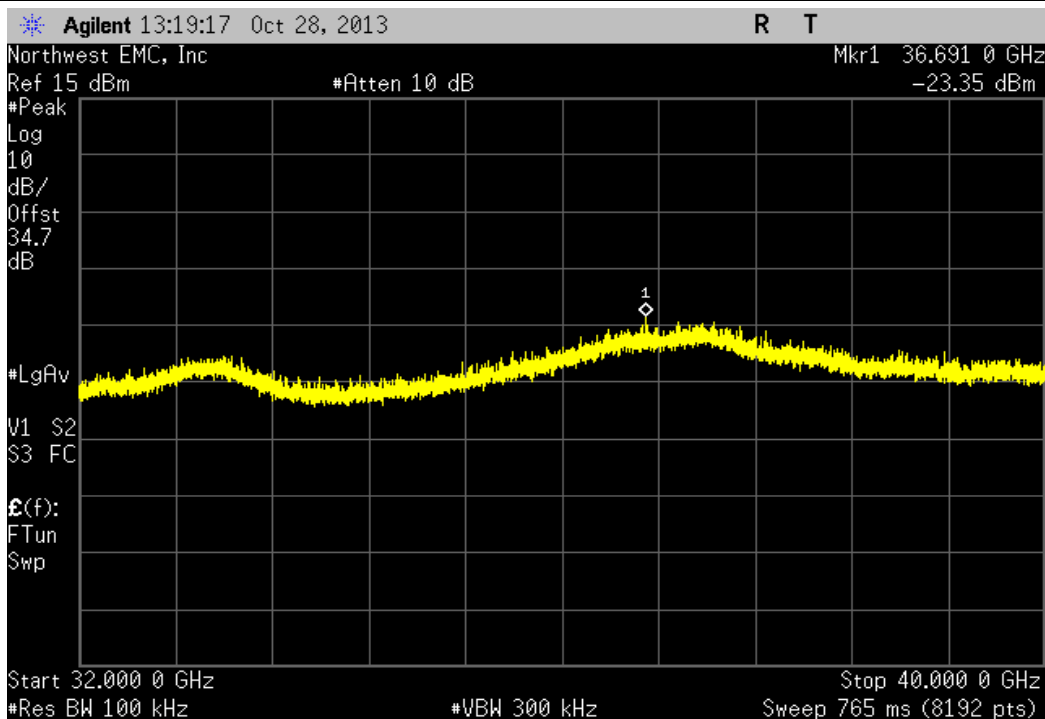
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-39.65 dBc	≤ -20 dBc	Pass



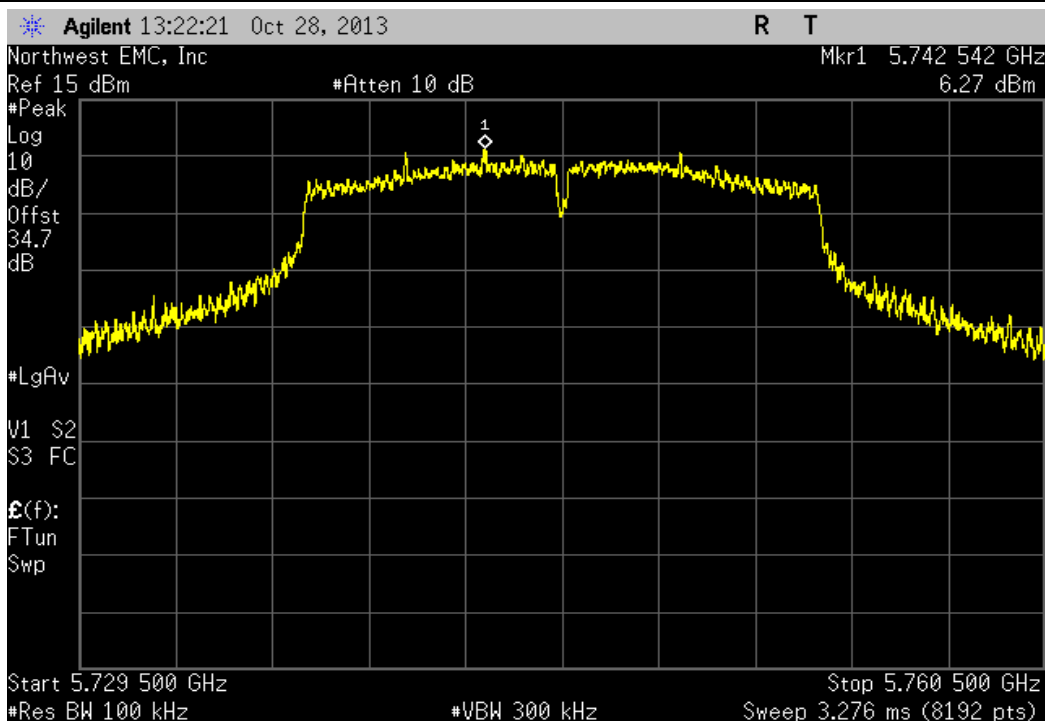
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-37.79 dBc	≤ -20 dBc	Pass



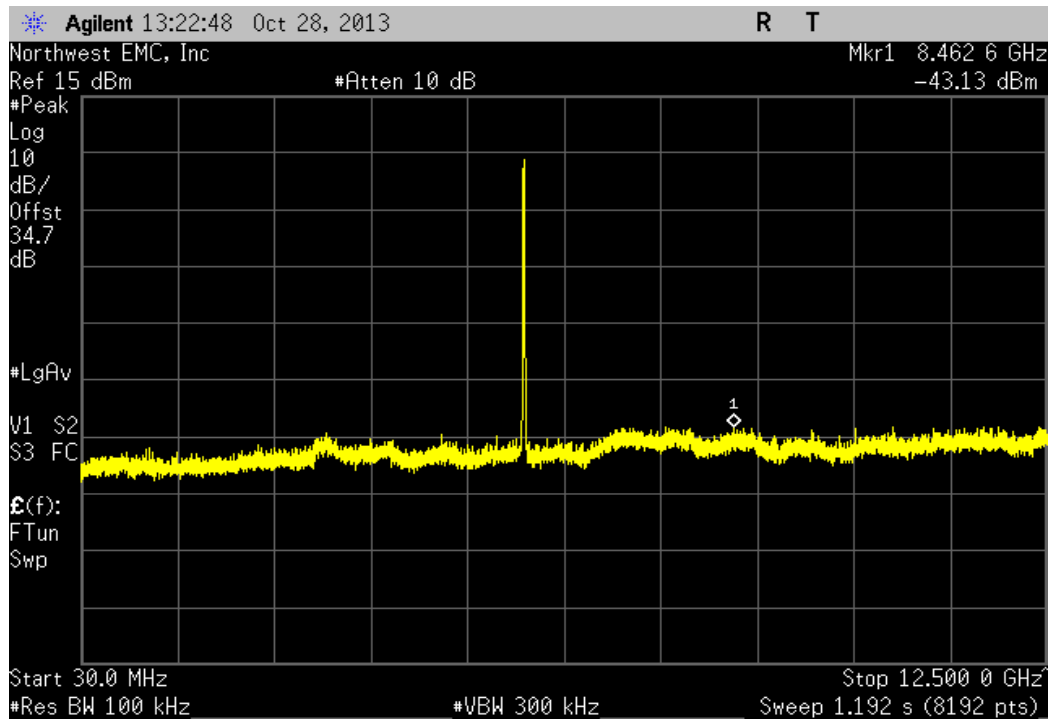
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-28.24 dBc	≤ -20 dBc	Pass



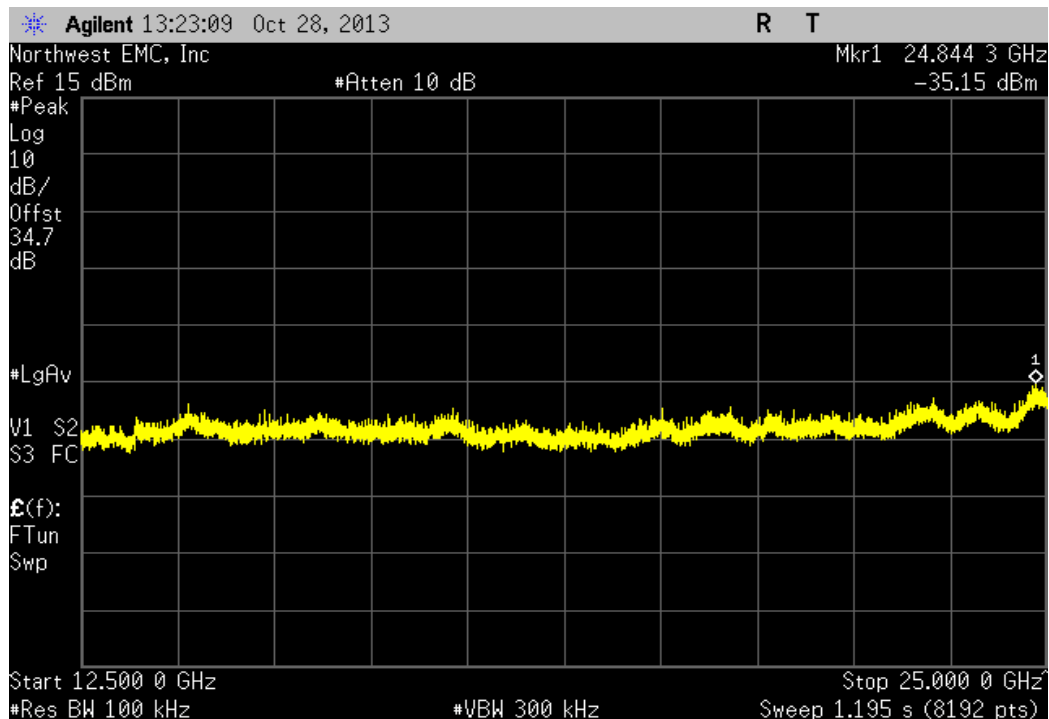
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



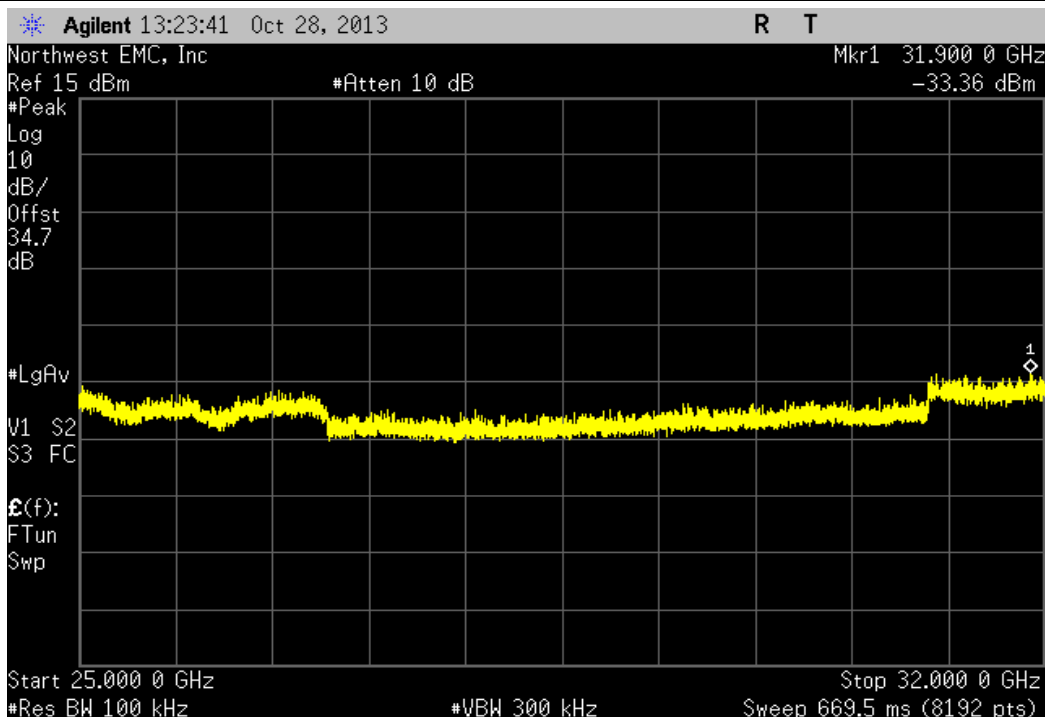
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.4 dBc	≤ -20 dBc	Pass	



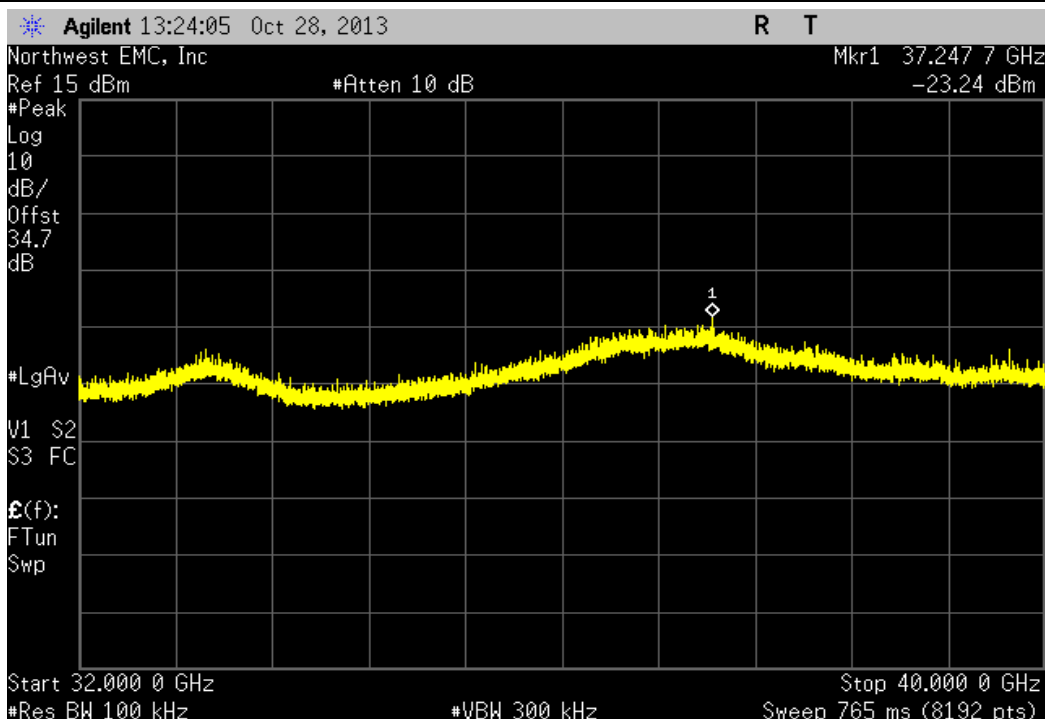
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-41.42 dBc	≤ -20 dBc	Pass	



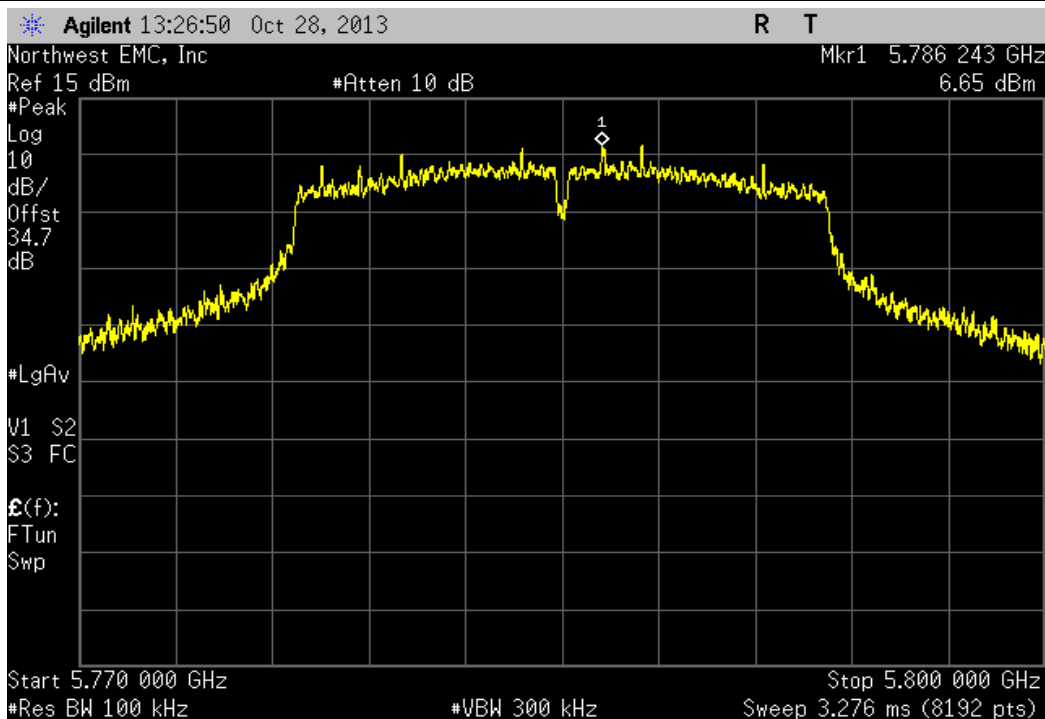
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-39.63 dBc	≤ -20 dBc	Pass	



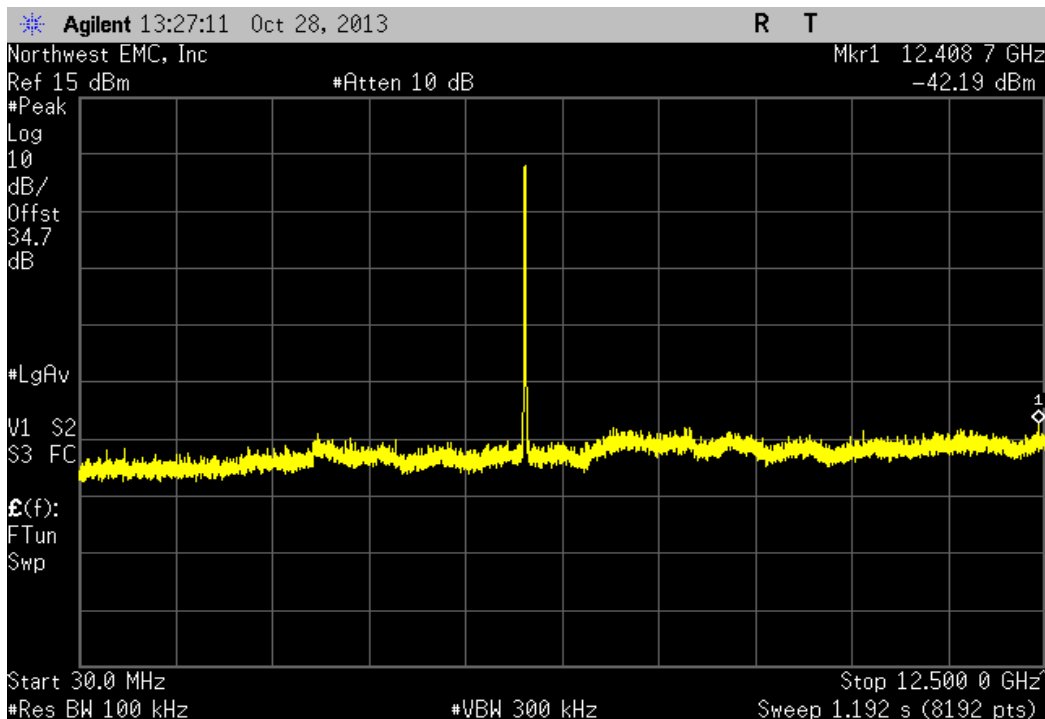
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-29.51 dBc	≤ -20 dBc	Pass	



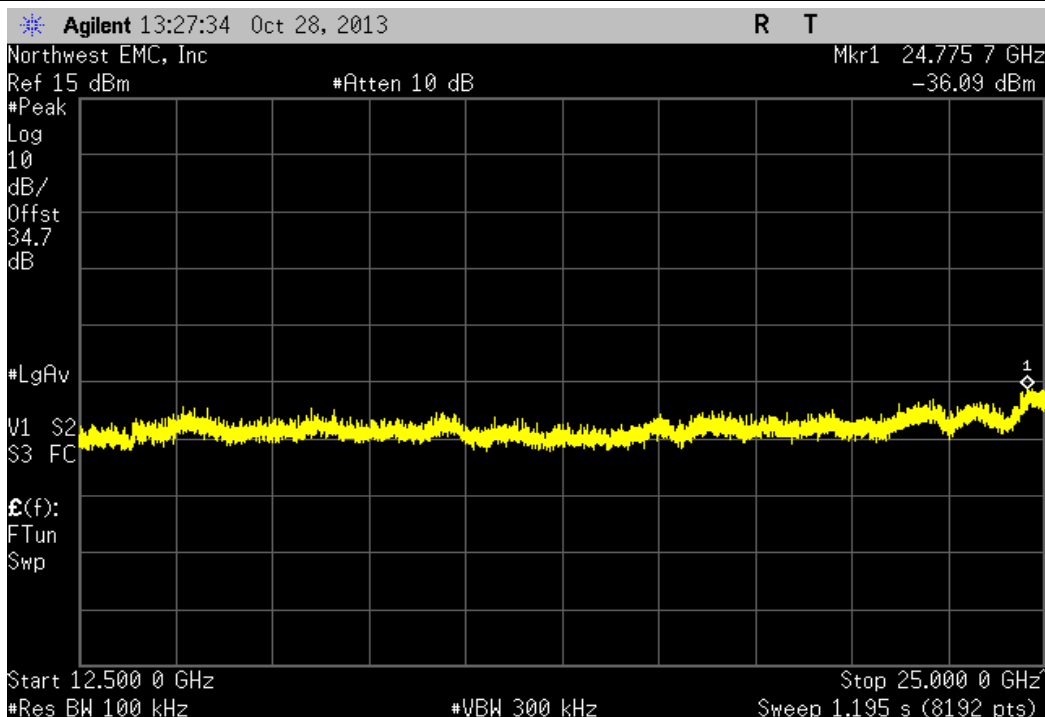
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



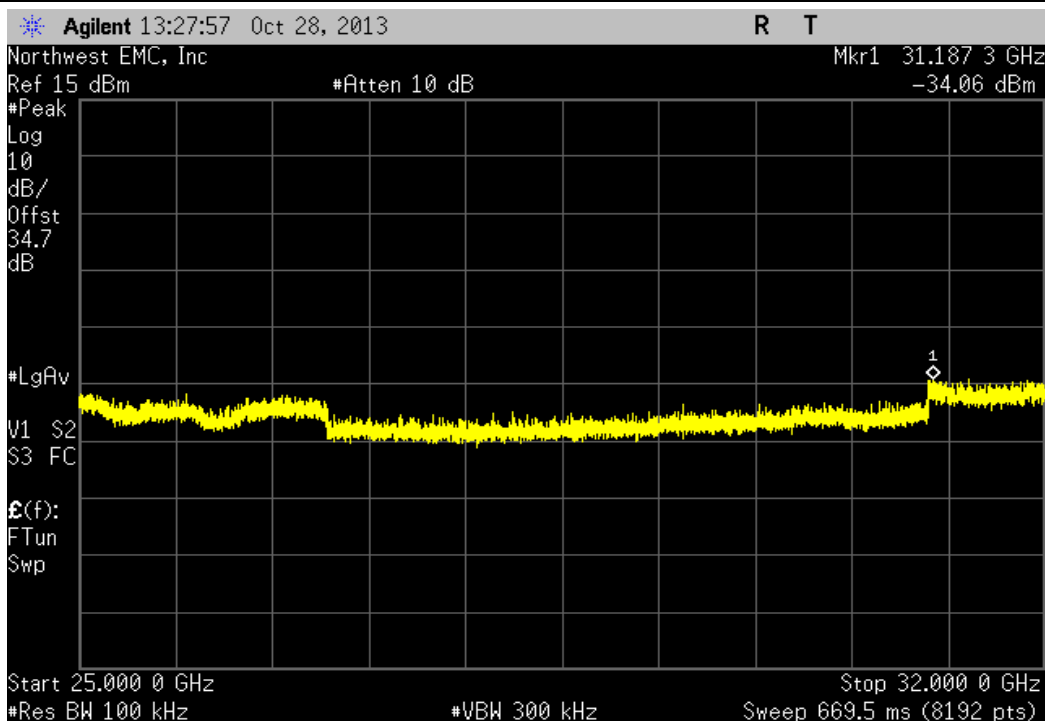
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.84 dBc	≤ -20 dBc	Pass



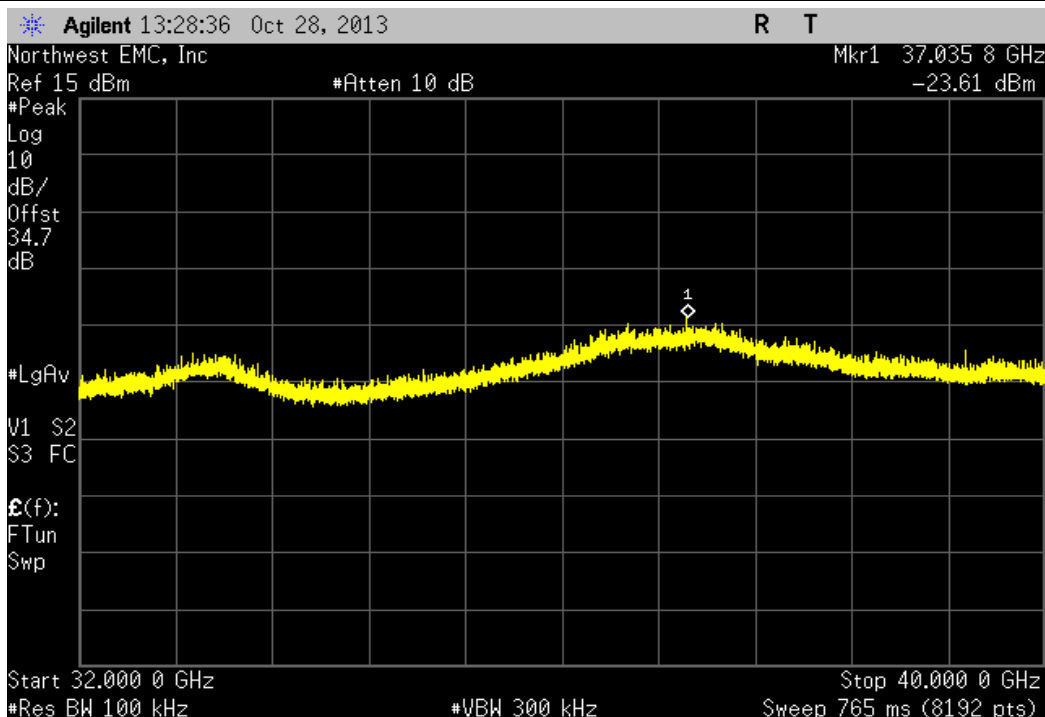
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-42.74 dBc	≤ -20 dBc	Pass	



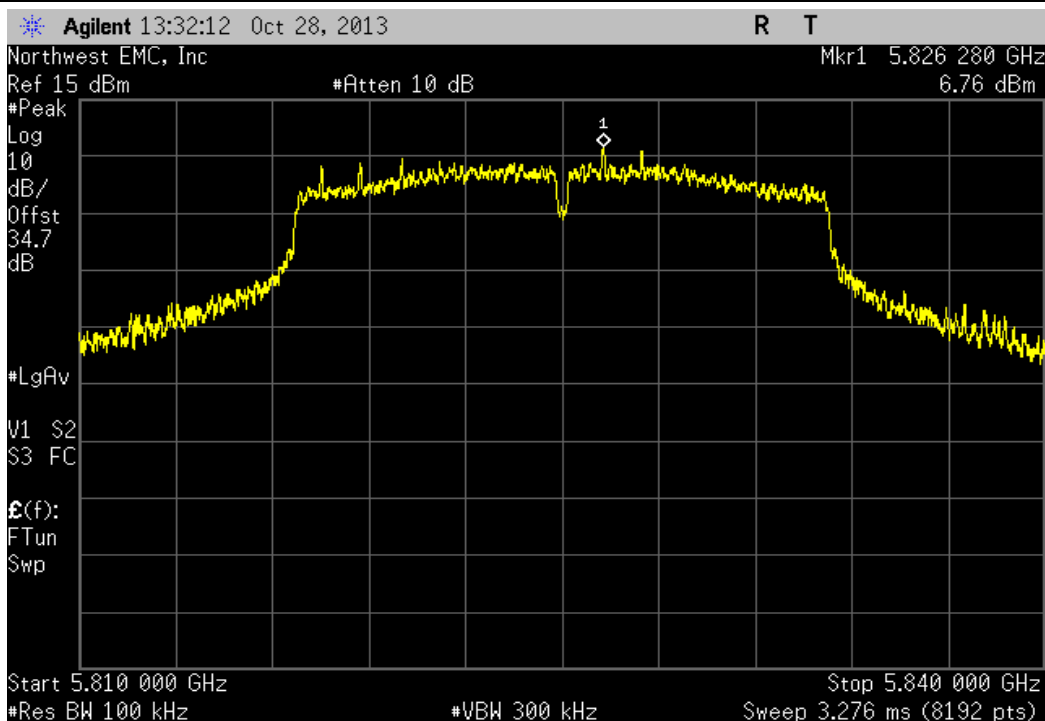
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-40.71 dBc	≤ -20 dBc	Pass	



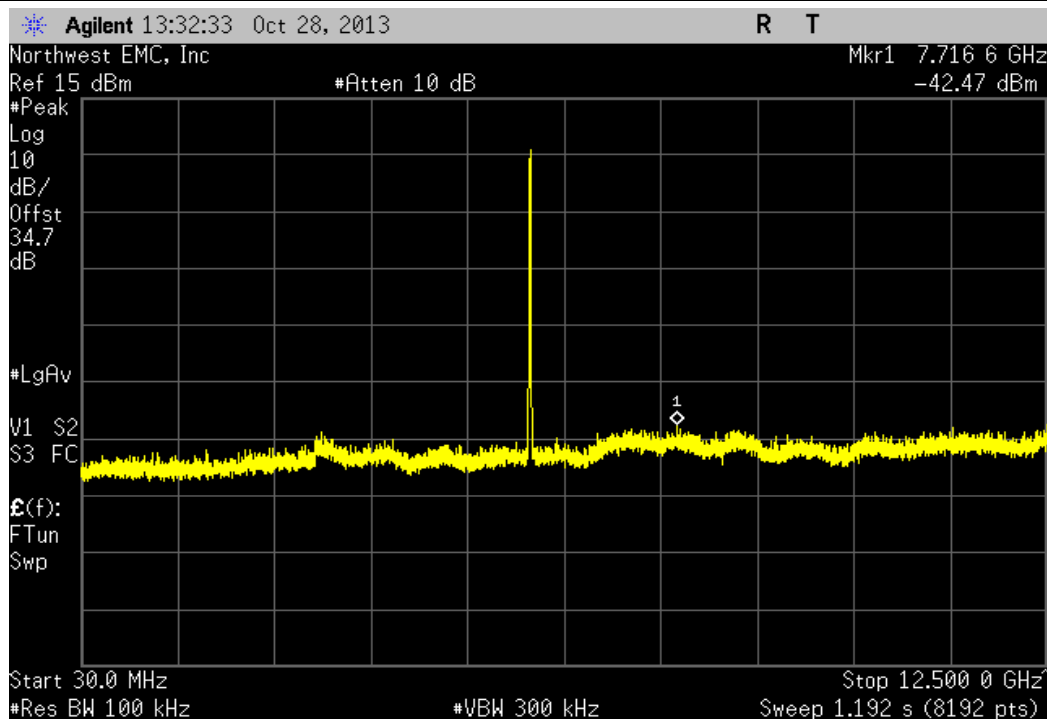
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-30.26 dBc	≤ -20 dBc	Pass	



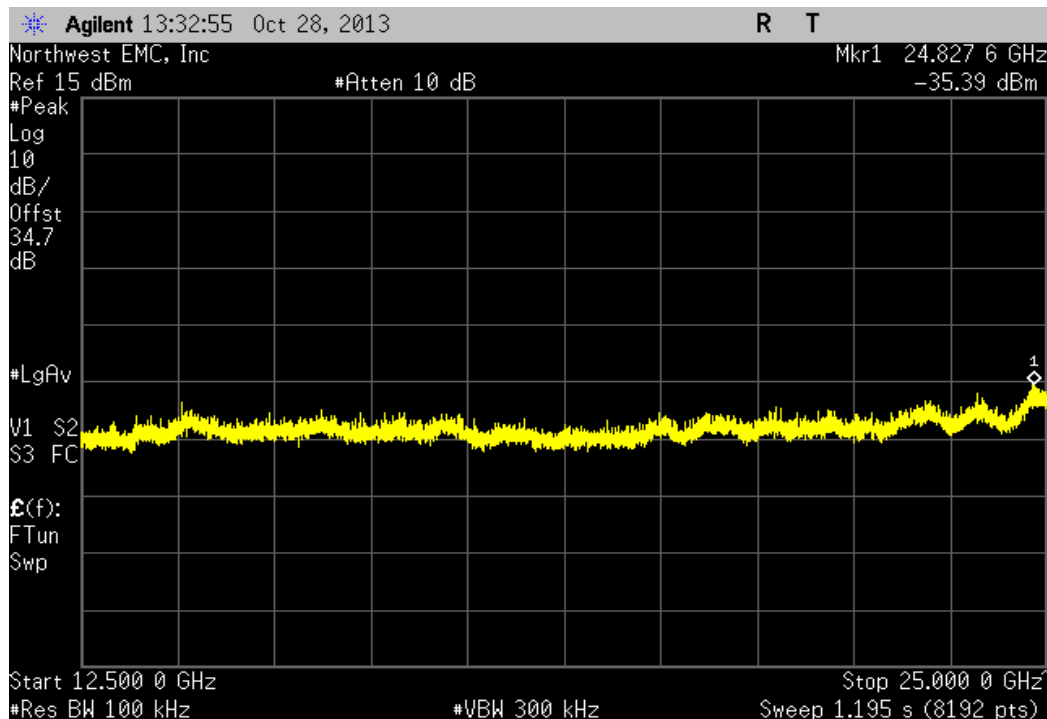
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



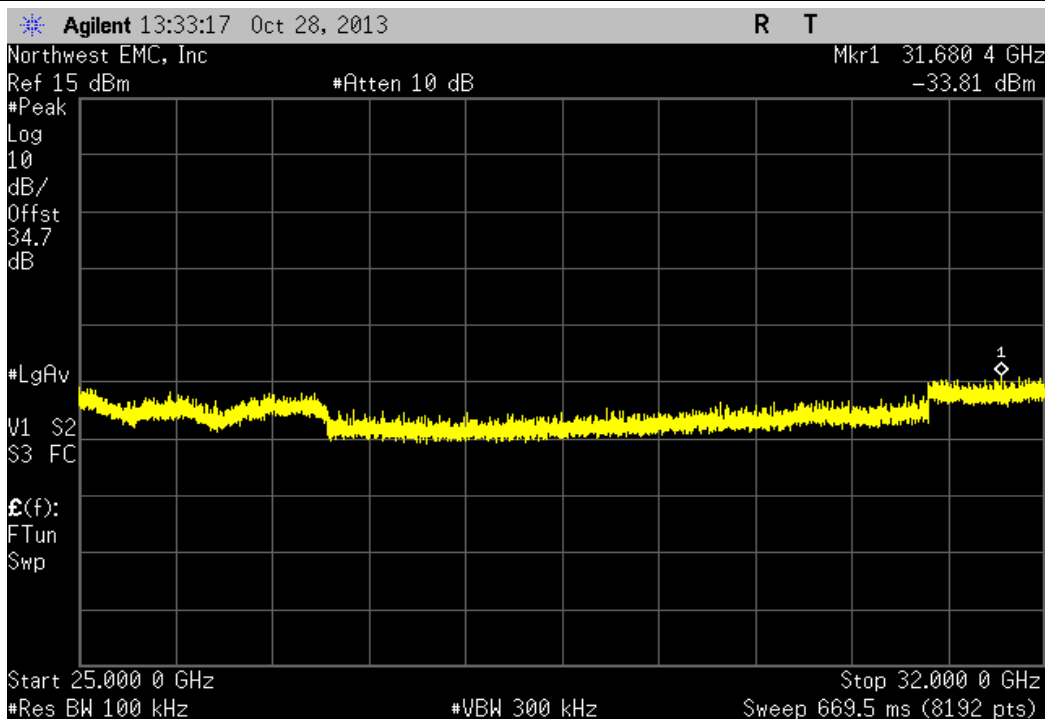
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.23 dBc	≤ -20 dBc	Pass	



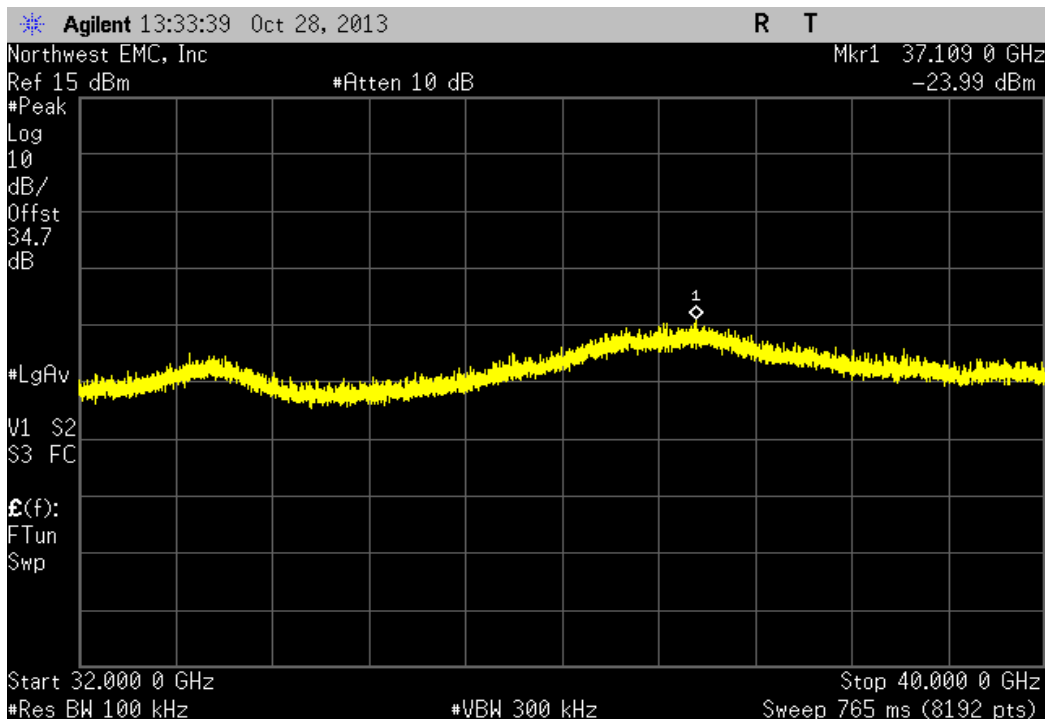
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-42.15 dBc	≤ -20 dBc	Pass	



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-40.57 dBc	≤ -20 dBc	Pass	



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-30.75 dBc	≤ -20 dBc	Pass	



5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

Frequency

Range

Value

Limit

Result

Fundamental

N/A

N/A

N/A

Agilent 13:37:29 Oct 28, 2013

R T

Northwest EMC, Inc

Mkr1 5.747 477 GHz

Ref 15 dBm

#Atten 10 dB

6.84 dBm

#Peak

Log

10

dB/

Offst

34.7

dB

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Start 5.729 500 GHz

Stop 5.760 500 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 3.276 ms (8192 pts)

5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

Frequency

Range

Value

Limit

Result

30 MHz - 12.5 GHz

-48.75 dBc

≤ -20 dBc

Pass

Agilent 13:38:24 Oct 28, 2013

R T

Northwest EMC, Inc

Mkr1 7.215 7 GHz

Ref 15 dBm

#Atten 10 dB

-41.91 dBm

#Peak

Log

10

dB/

Offst

34.7

dB

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Start 30.0 MHz

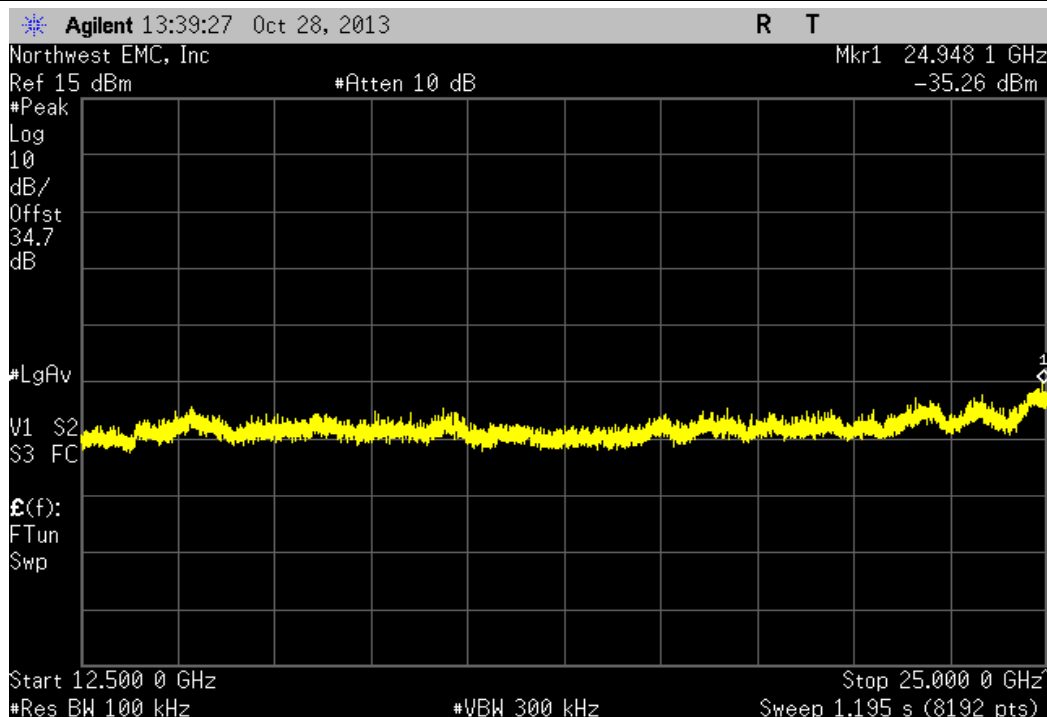
Stop 12.500 0 GHz

#Res BW 100 kHz

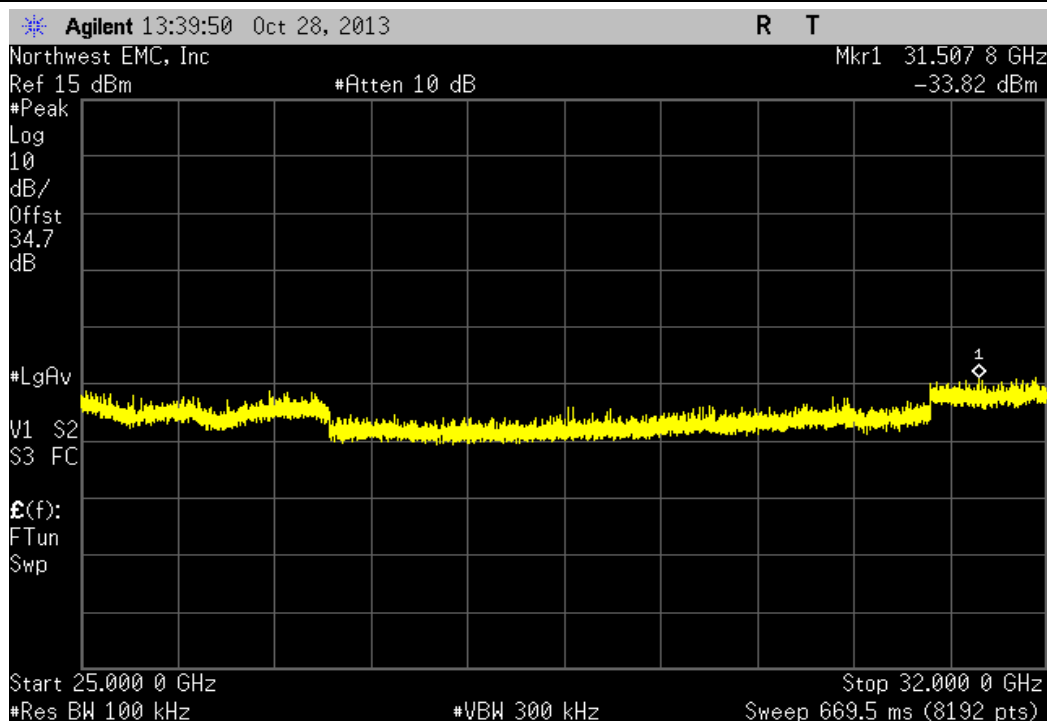
#VBW 300 kHz

Sweep 1.192 s (8192 pts)

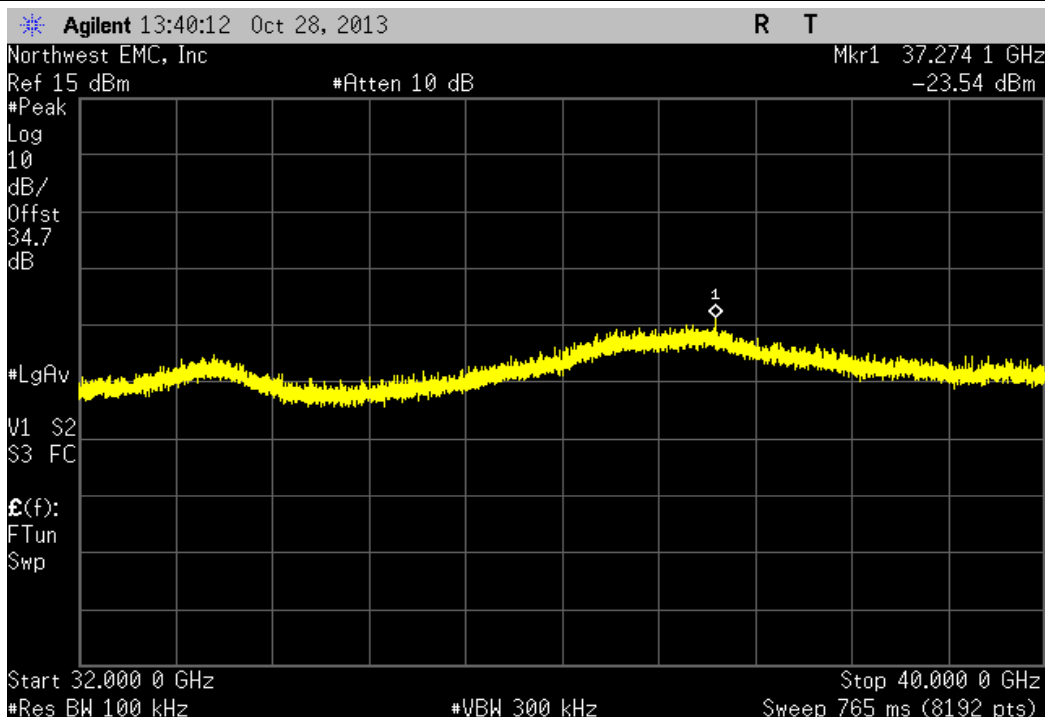
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-42.1 dBc	≤ -20 dBc	Pass	



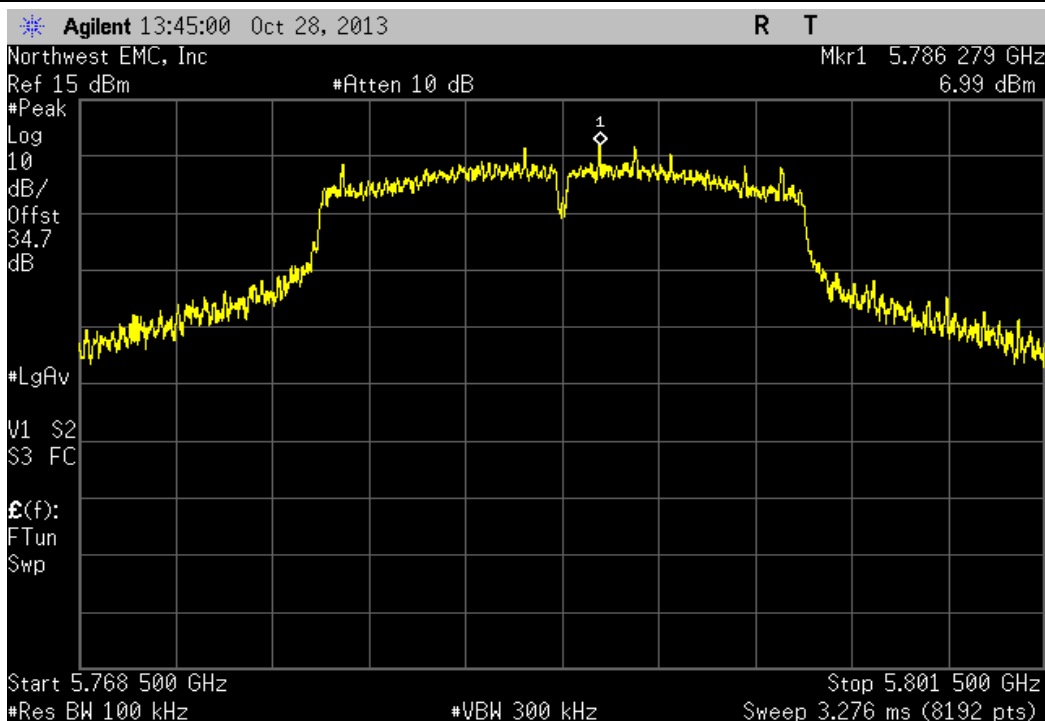
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-40.66 dBc	≤ -20 dBc	Pass	



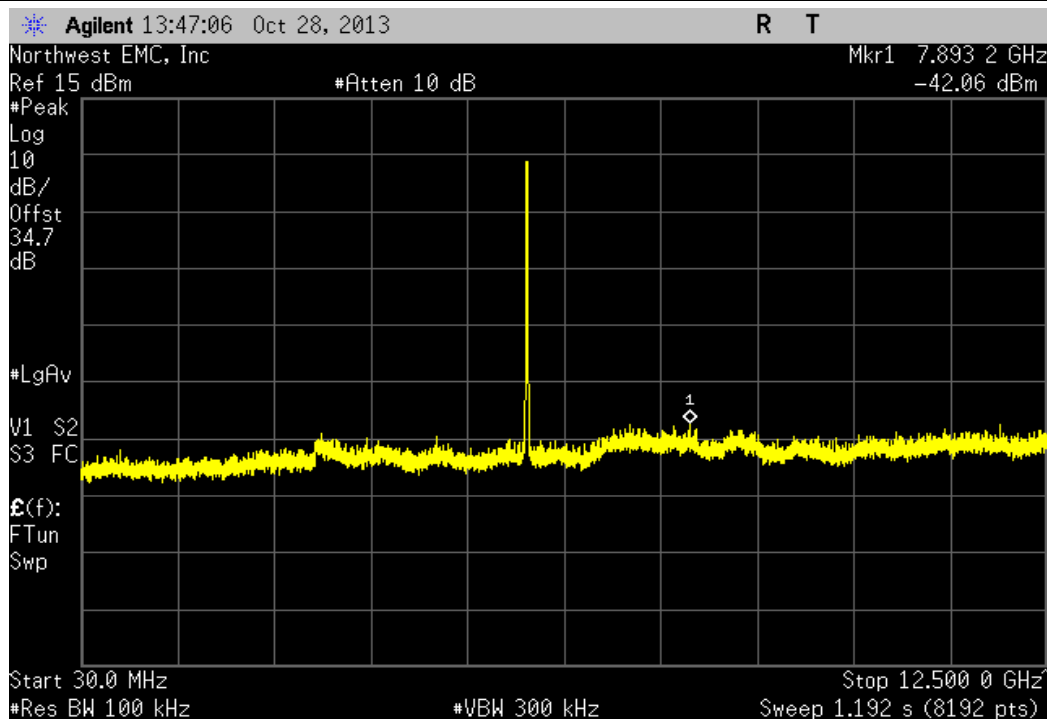
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-30.38 dBc	≤ -20 dBc	Pass



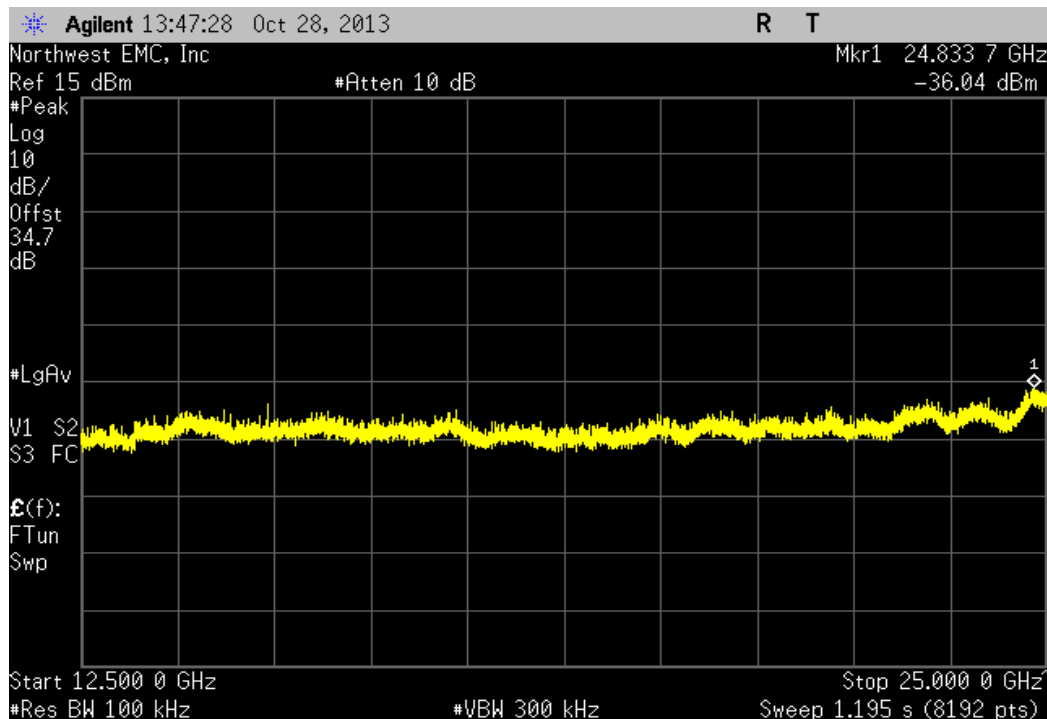
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



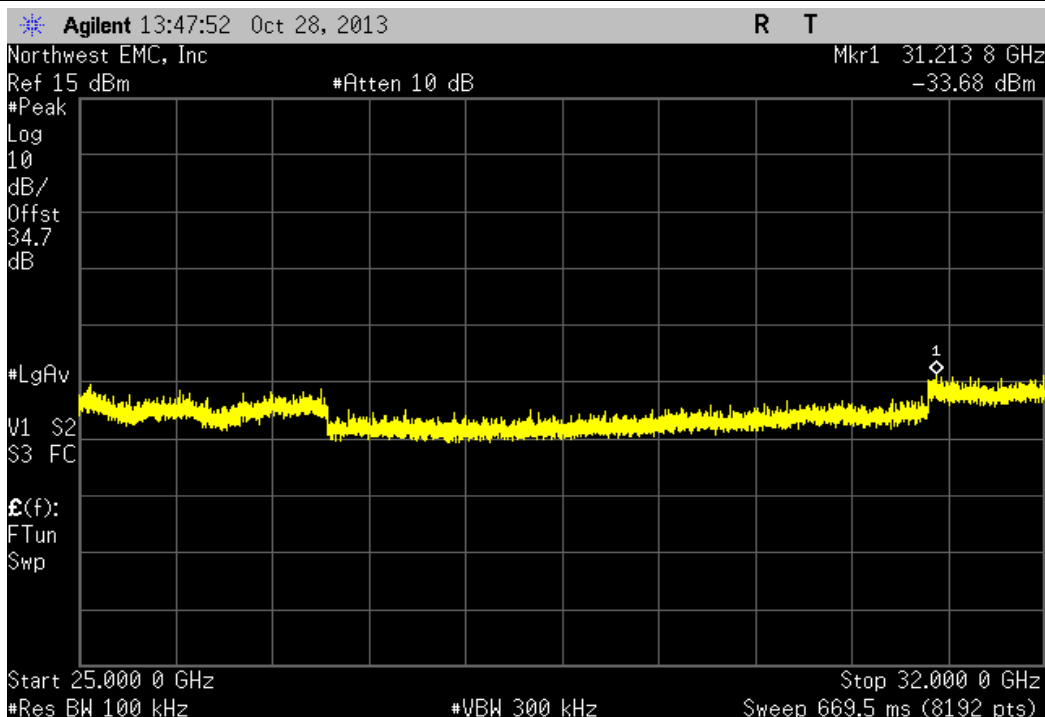
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.05 dBc	≤ -20 dBc	Pass	



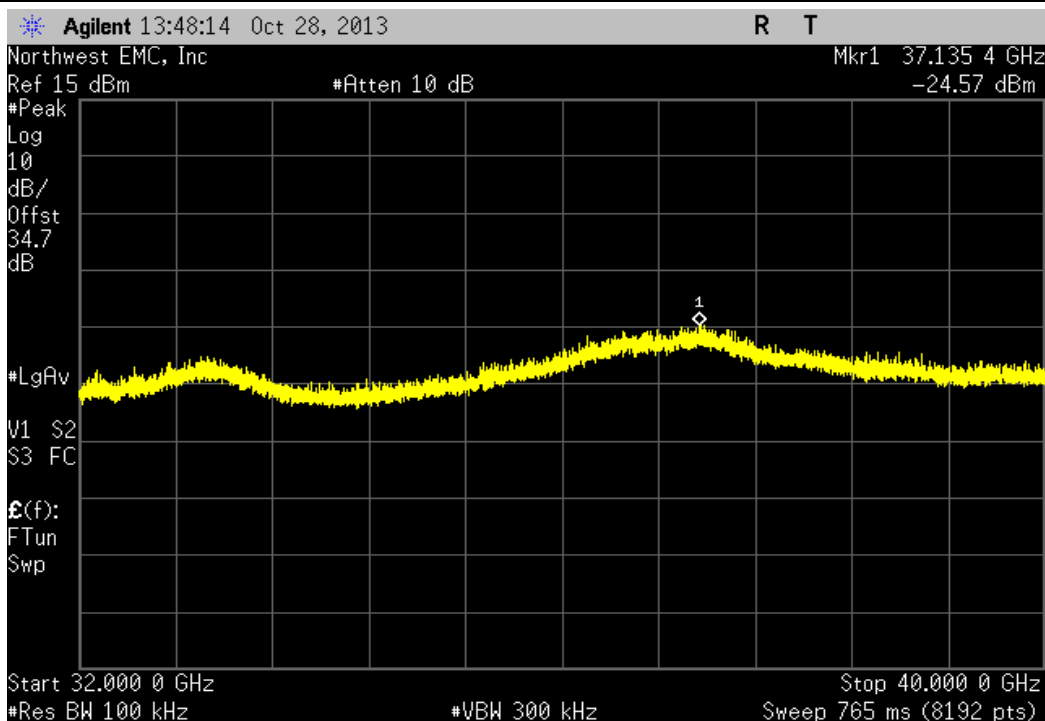
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.03 dBc	≤ -20 dBc	Pass	



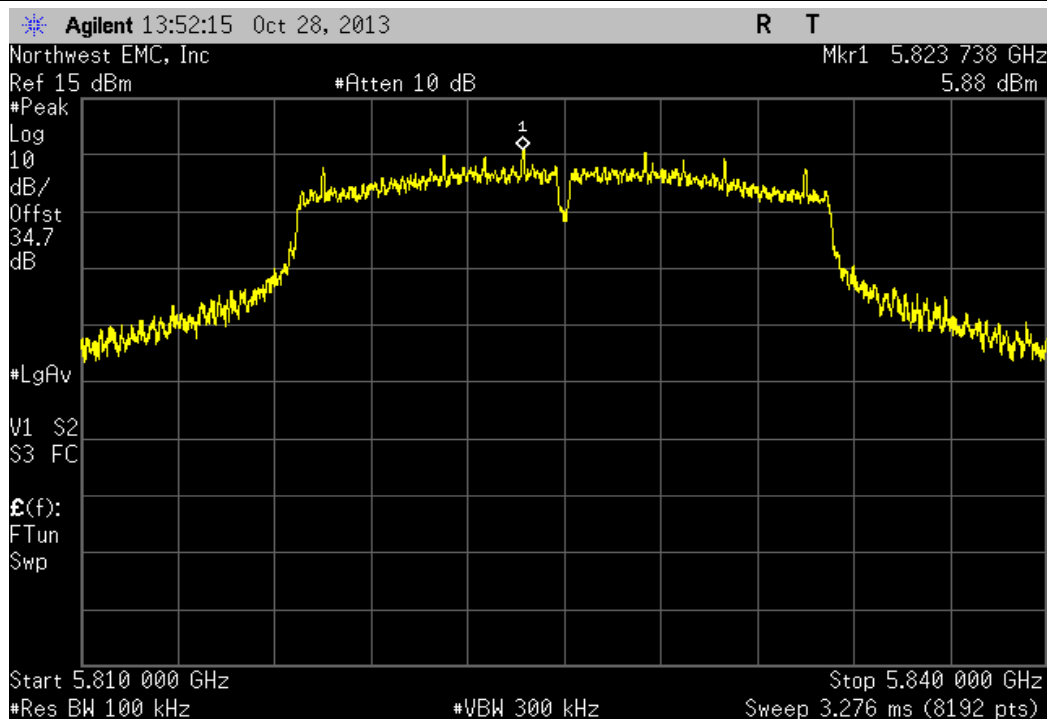
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-40.67 dBc	≤ -20 dBc	Pass



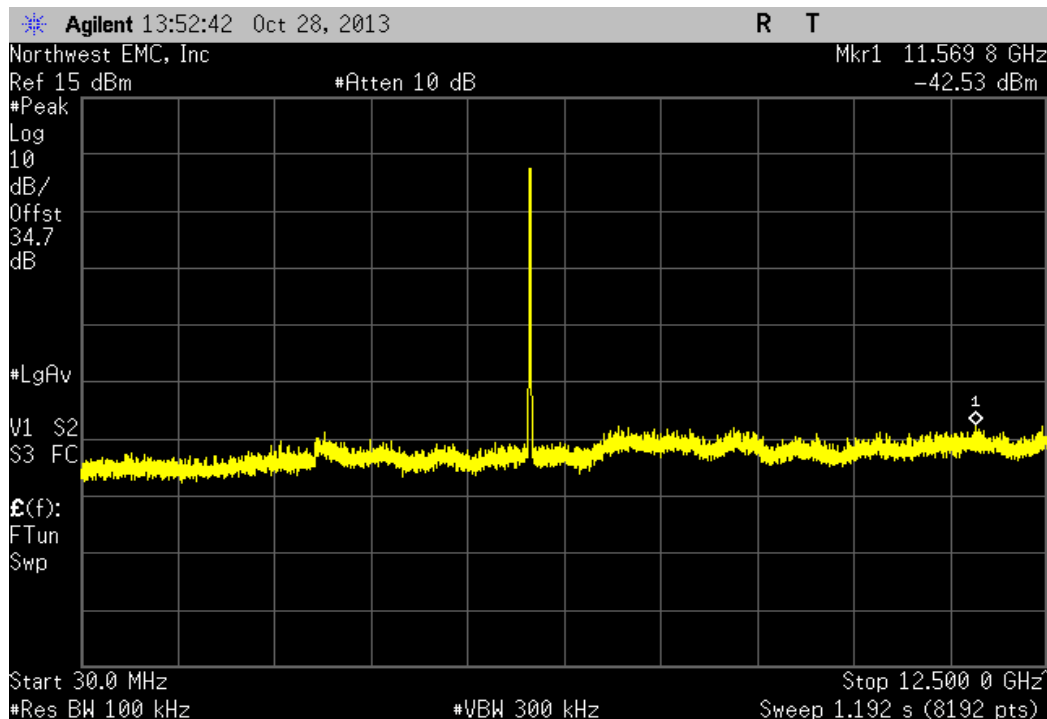
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-31.56 dBc	≤ -20 dBc	Pass



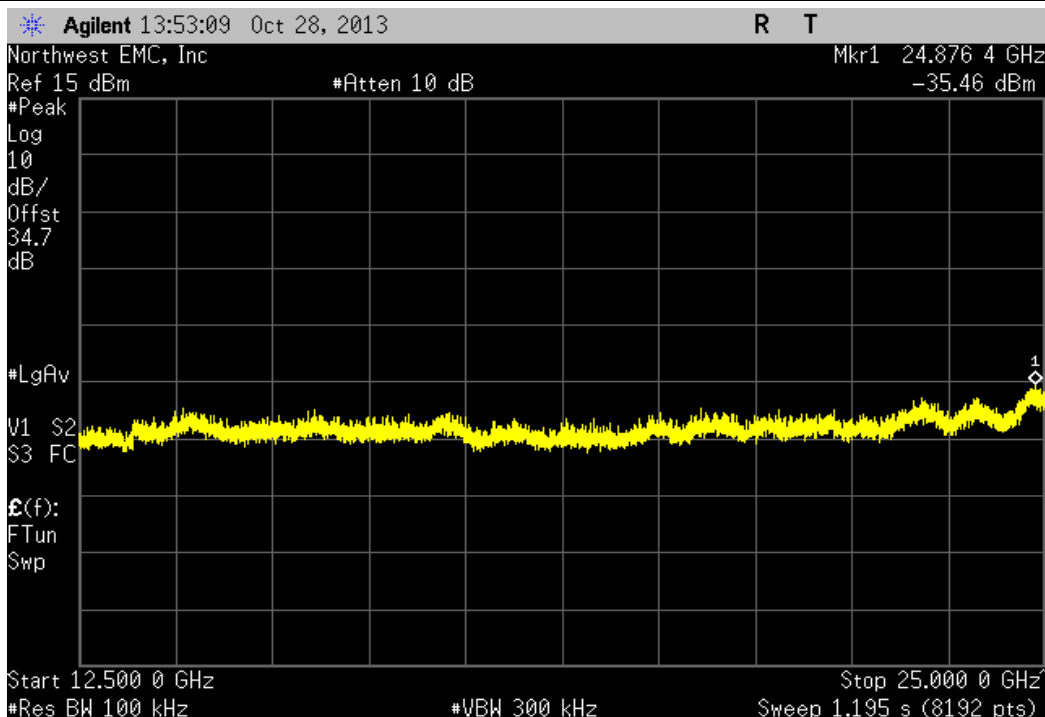
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



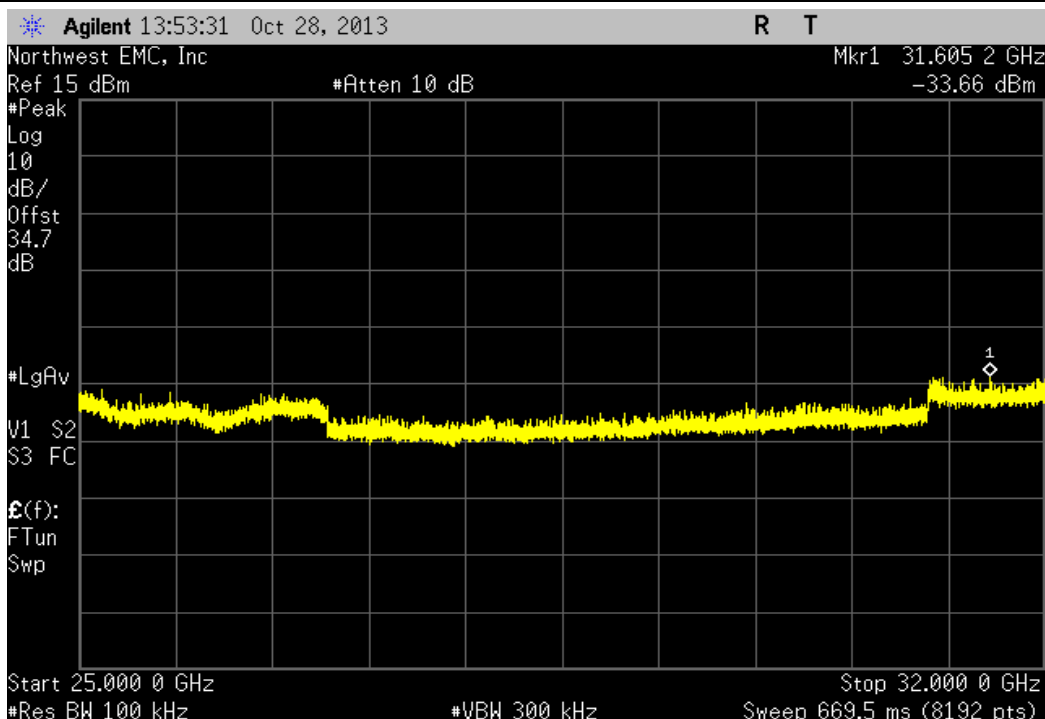
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.41 dBc	≤ -20 dBc	Pass



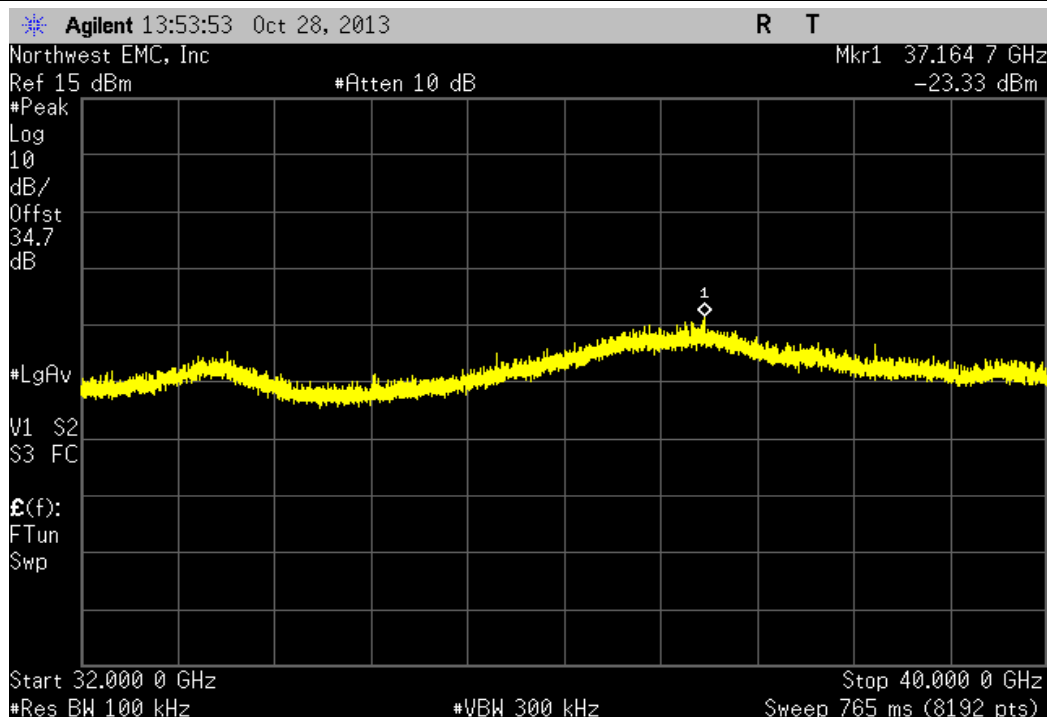
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-41.34 dBc	≤ -20 dBc	Pass



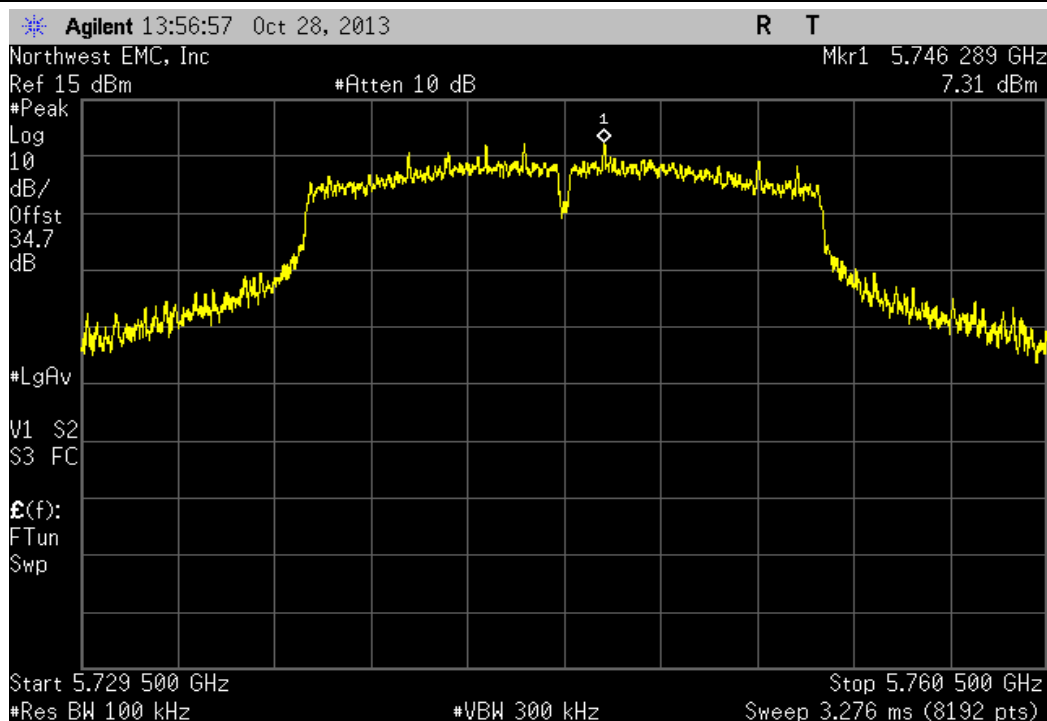
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-39.54 dBc	≤ -20 dBc	Pass



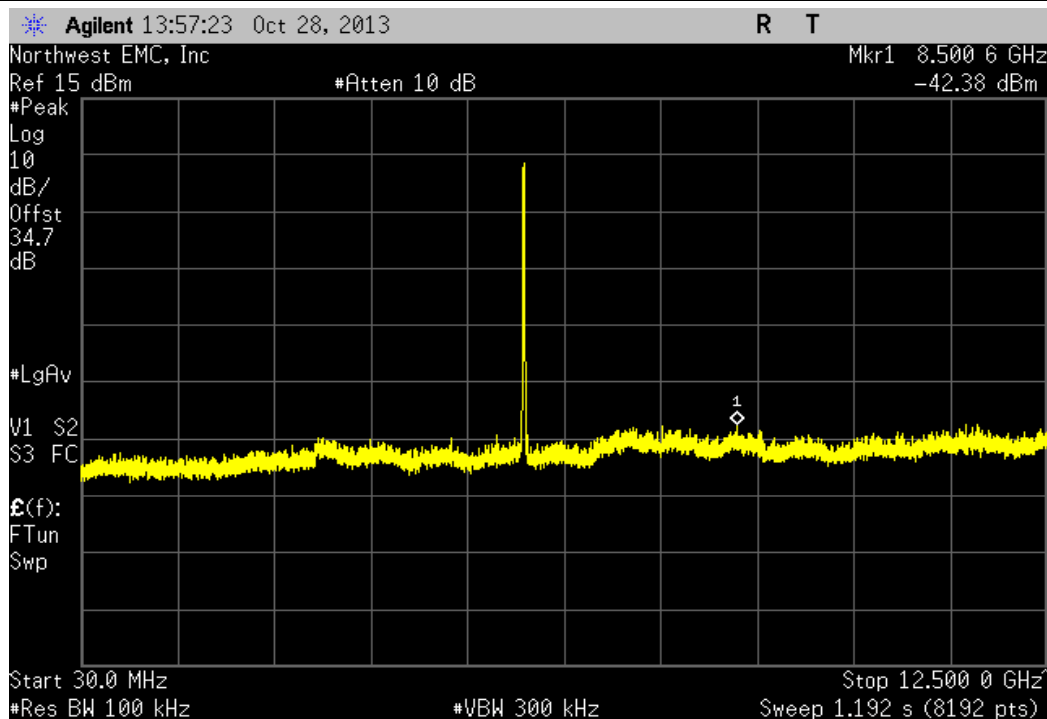
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-29.21 dBc	≤ -20 dBc	Pass



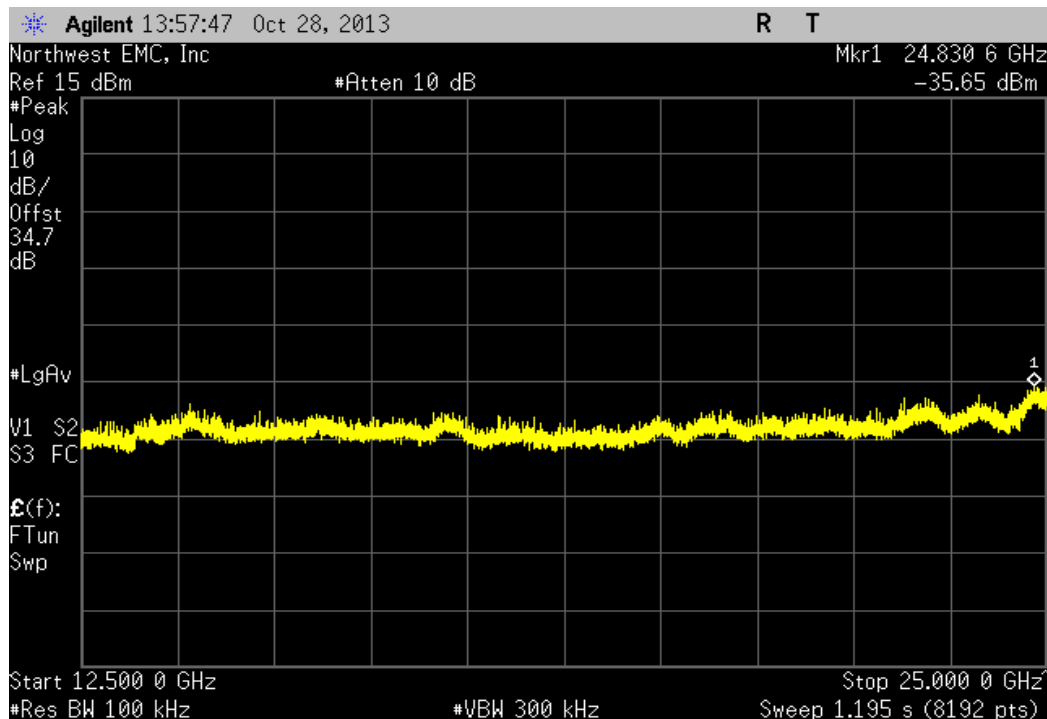
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



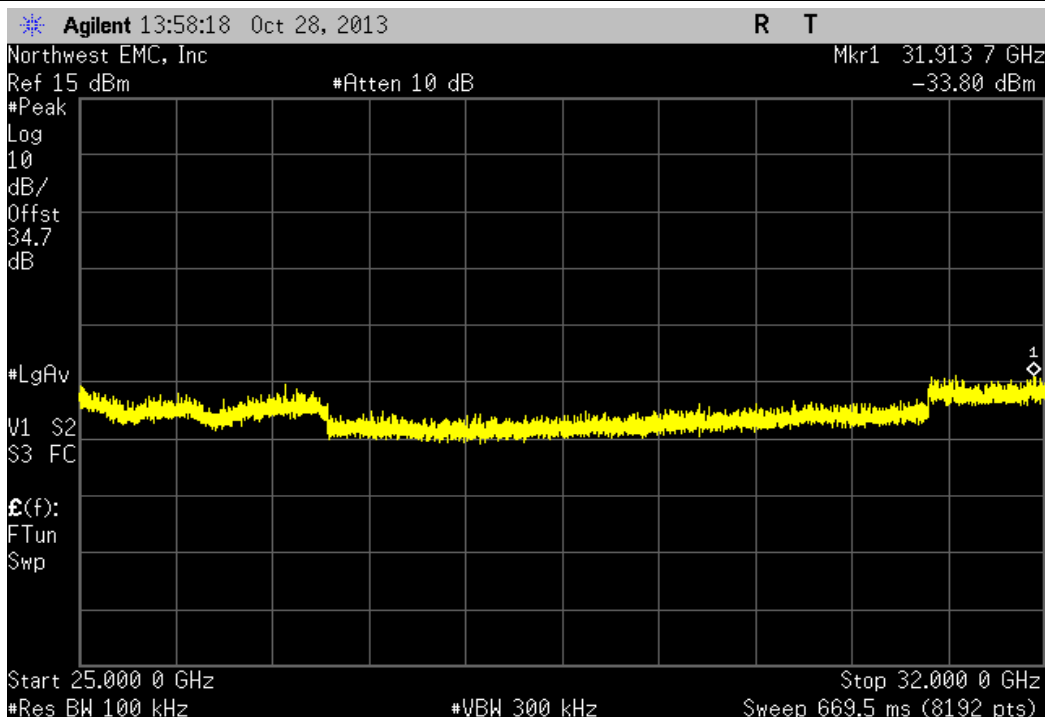
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.69 dBc	≤ -20 dBc	Pass	



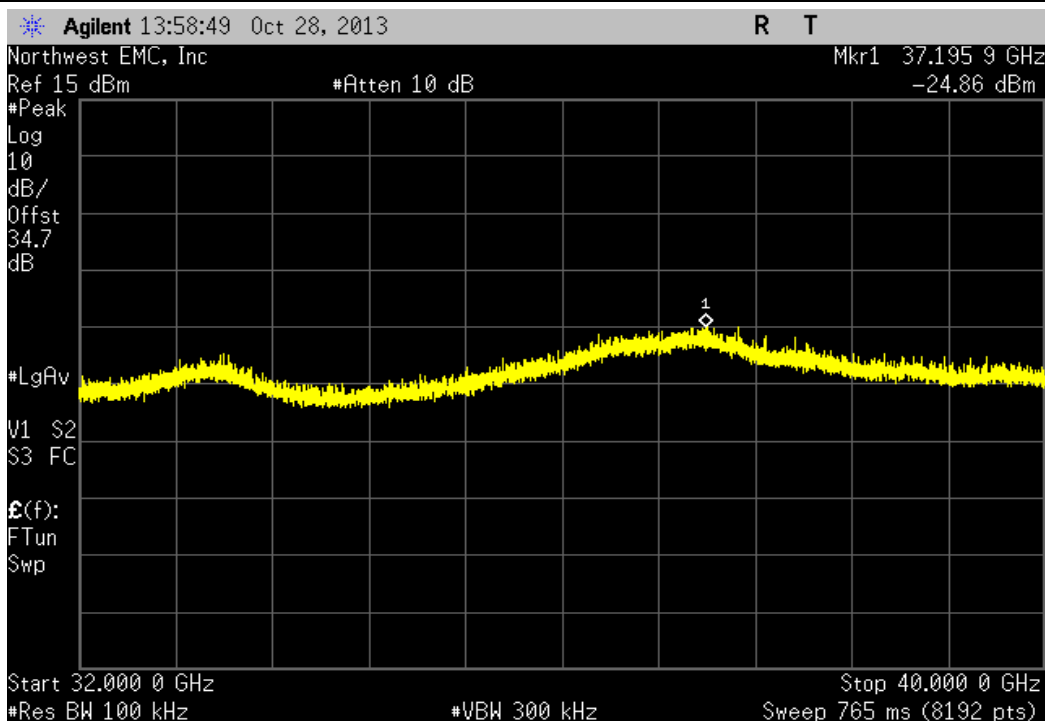
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-42.96 dBc	≤ -20 dBc	Pass	



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-41.11 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-32.17 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

Frequency

Range

Value

Limit

Result

Fundamental

N/A

N/A

N/A

Agilent 14:01:48 Oct 28, 2013

R T

Northwest EMC, Inc

Mkr1 5.783 768 GHz

Ref 15 dBm

#Atten 10 dB

5.85 dBm

#Peak

Log

10

dB/

Offst

34.7

dB

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Start 5.770 000 GHz

Stop 5.800 000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 3.276 ms (8192 pts)

5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

Frequency

Range

Value

Limit

Result

30 MHz - 12.5 GHz

-48.82 dBc

≤ -20 dBc

Pass

Agilent 14:02:10 Oct 28, 2013

R T

Northwest EMC, Inc

Mkr1 7.025 4 GHz

Ref 15 dBm

#Atten 10 dB

-42.97 dBm

#Peak

Log

10

dB/

Offst

34.7

dB

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Start 30.0 MHz

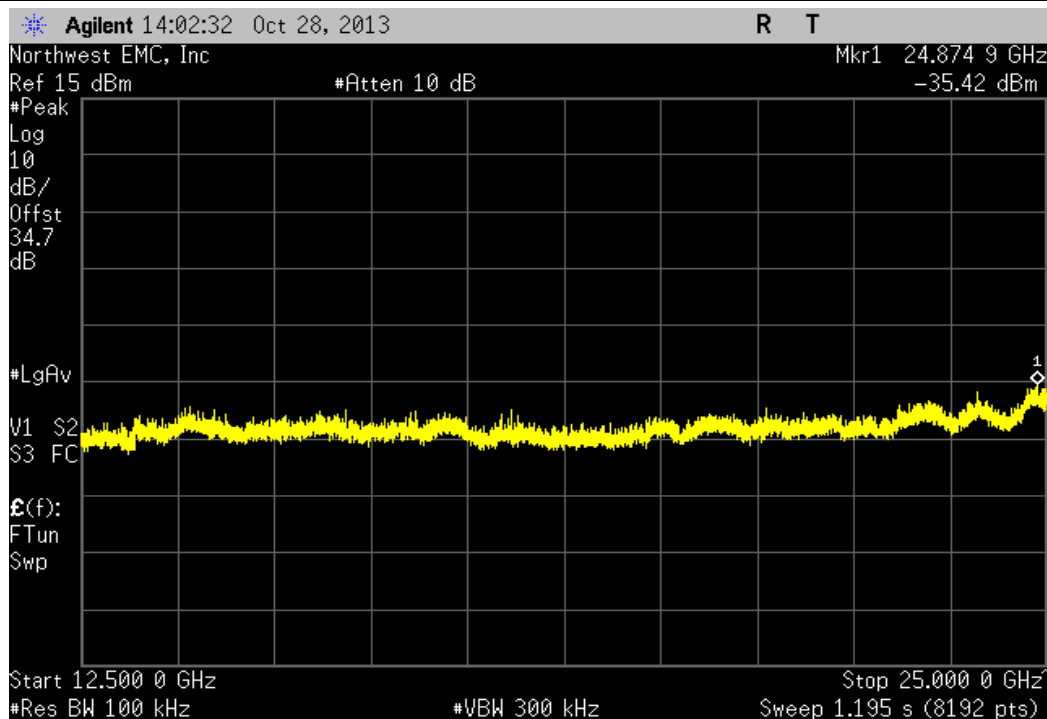
Stop 12.500 0 GHz

#Res BW 100 kHz

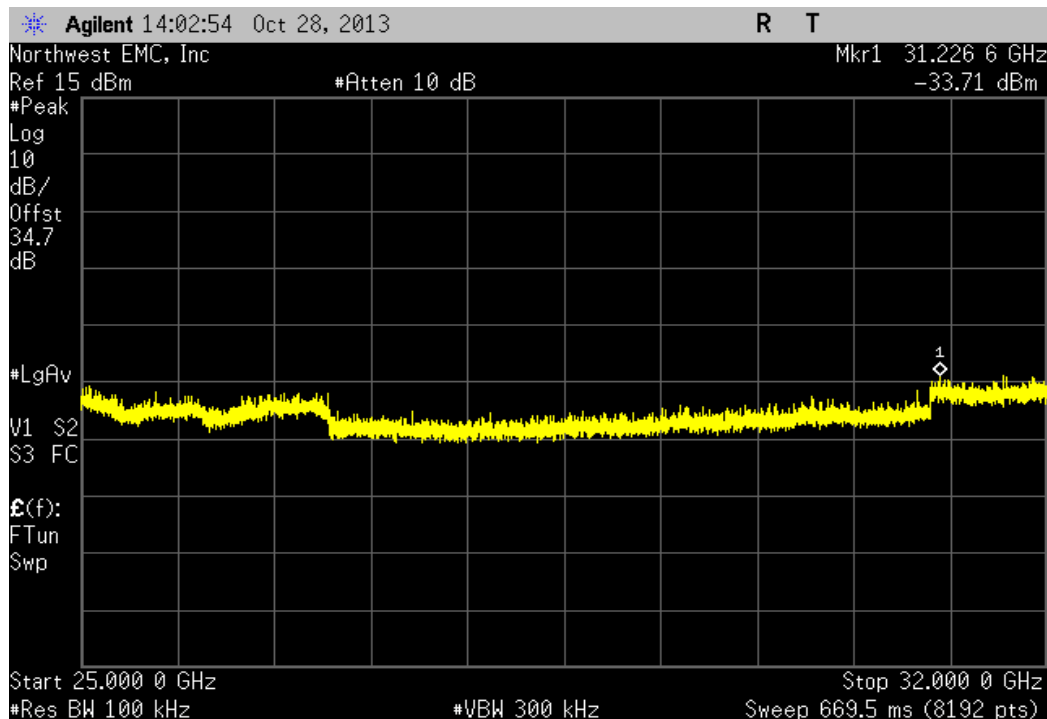
#VBW 300 kHz

Sweep 1.192 s (8192 pts)

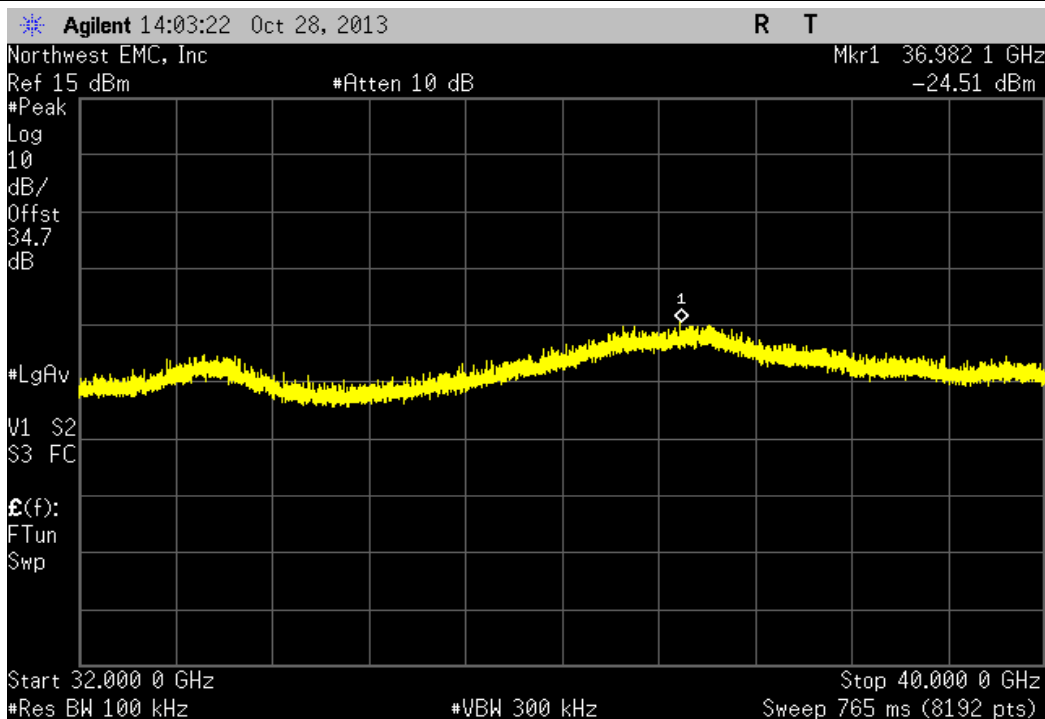
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-41.27 dBc	≤ -20 dBc	Pass



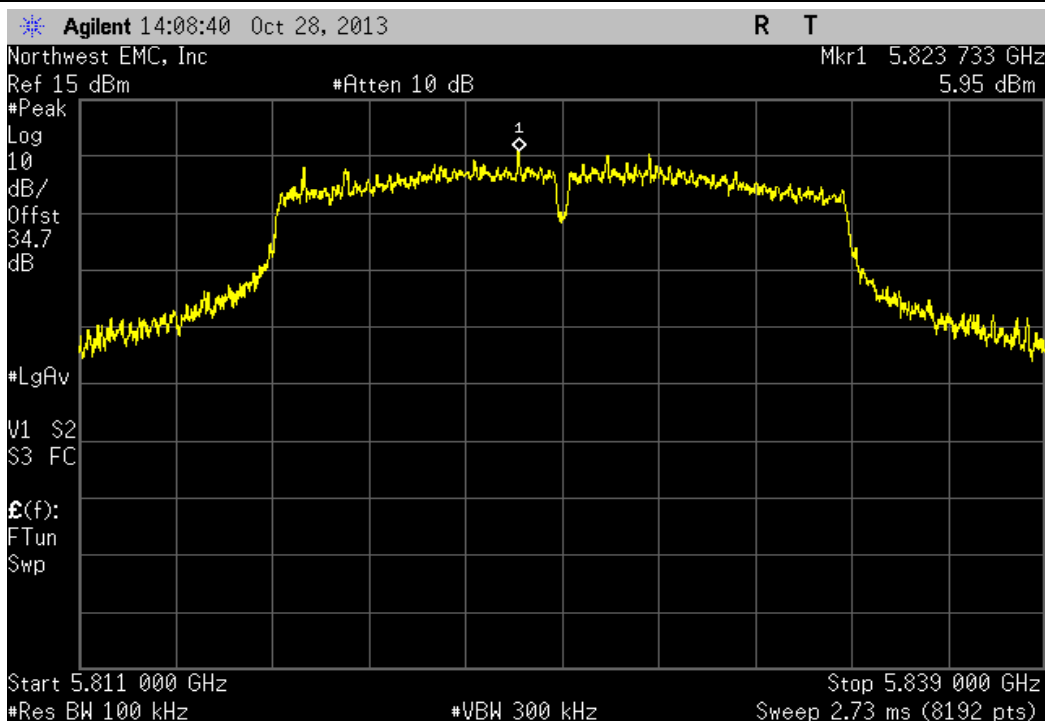
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-39.56 dBc	≤ -20 dBc	Pass



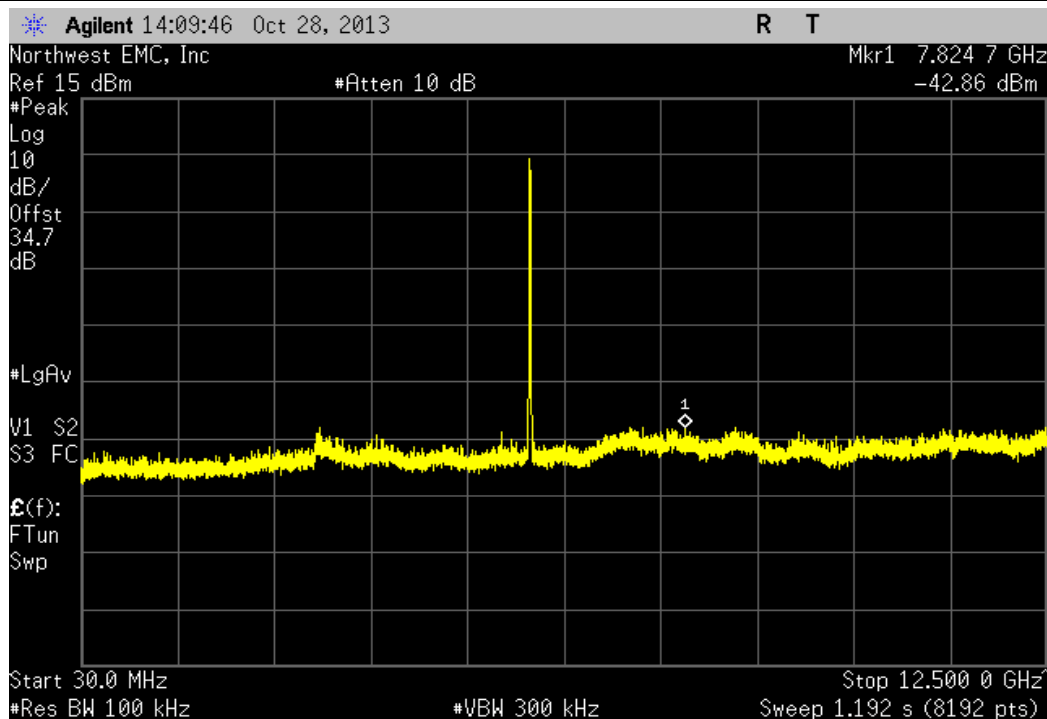
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-30.36 dBc	≤ -20 dBc	Pass



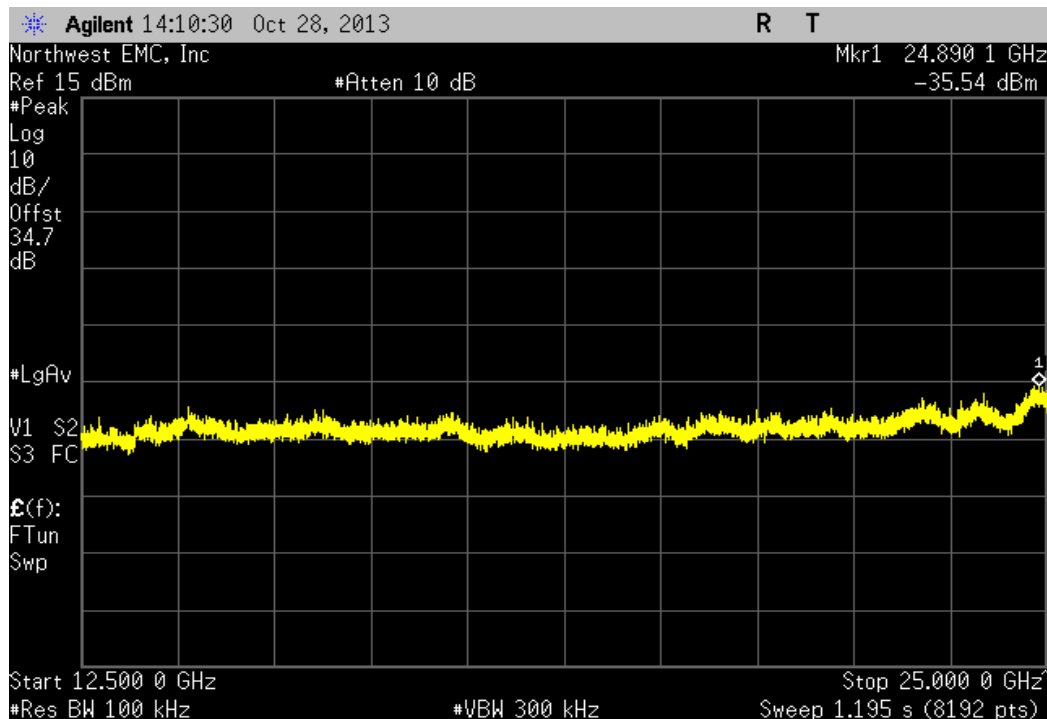
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



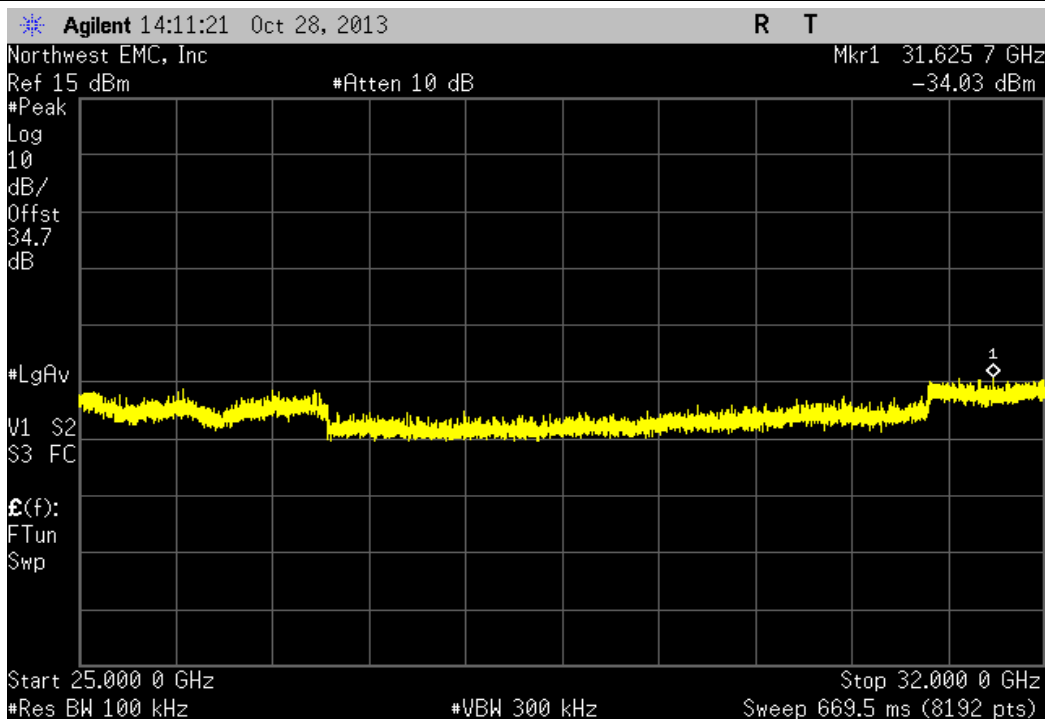
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.81 dBc	≤ -20 dBc	Pass



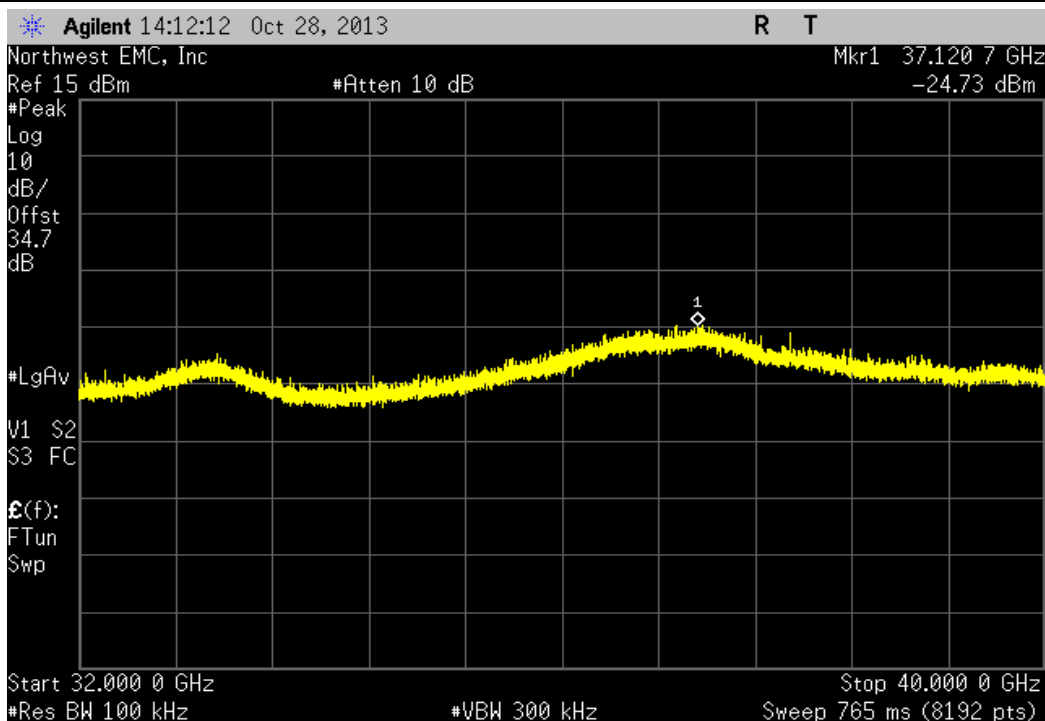
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-41.49 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-39.98 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-30.68 dBc	≤ -20 dBc	Pass



Band Edge Compliance

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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. 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.

The spectrum was scanned below the lower band edge and above the higher band edge.

Power Setting by Band:

2412MHz – 2462MHz, Power setting of 21000

5745MHz – 5825MHz, Power setting of 21000



Band Edge Compliance

XMit 2013.08.15
PsaTx 2013.07.11

EUT: The EGG		Work Order: INSD0001
Serial Number: 99		Date: 11/05/13
Customer: Intel Corporation		Temperature: 22.2°C
Attendees: Phil Auzas		Humidity: 42%
Project: None		Barometric Pres.: 1015
Tested by: Brandon Hobbs	Power: 4 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2013	ANSI C63.10:2009

COMMENTS
The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

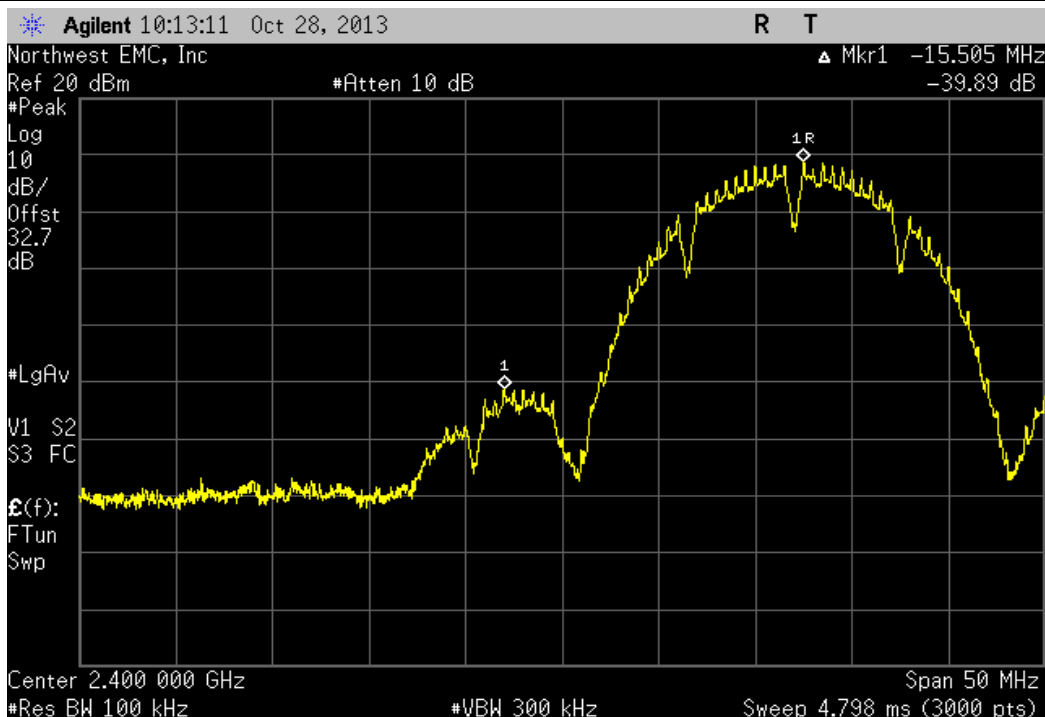
DEVIATIONS FROM TEST STANDARD
None

Configuration #	2	Signature 
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	Value	Limit	Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	-39.89 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-53.81 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	-40.01 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-53.76 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	-28.49 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-45.67 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	-28.99 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-47.12 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	-28.74 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-45.93 dBc	≤ -20 dBc	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	-27.92 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-46.85 dBc	≤ -20 dBc	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	-28.39 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-46.95 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(a) 6 Mbps			
Low Channel 149, 5745 MHz	-39.62 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-48.99 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps			
Low Channel 149, 5745 MHz	-39.44 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-48.4 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps			
Low Channel 149, 5745 MHz	-41.16 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-49.96 dBc	≤ -20 dBc	Pass
802.11(n) MCS0 - UNII			
Low Channel 149, 5745 MHz	-41.6 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-47.65 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII			
Low Channel 149, 5745 MHz	-39.43 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-47.64 dBc	≤ -20 dBc	Pass

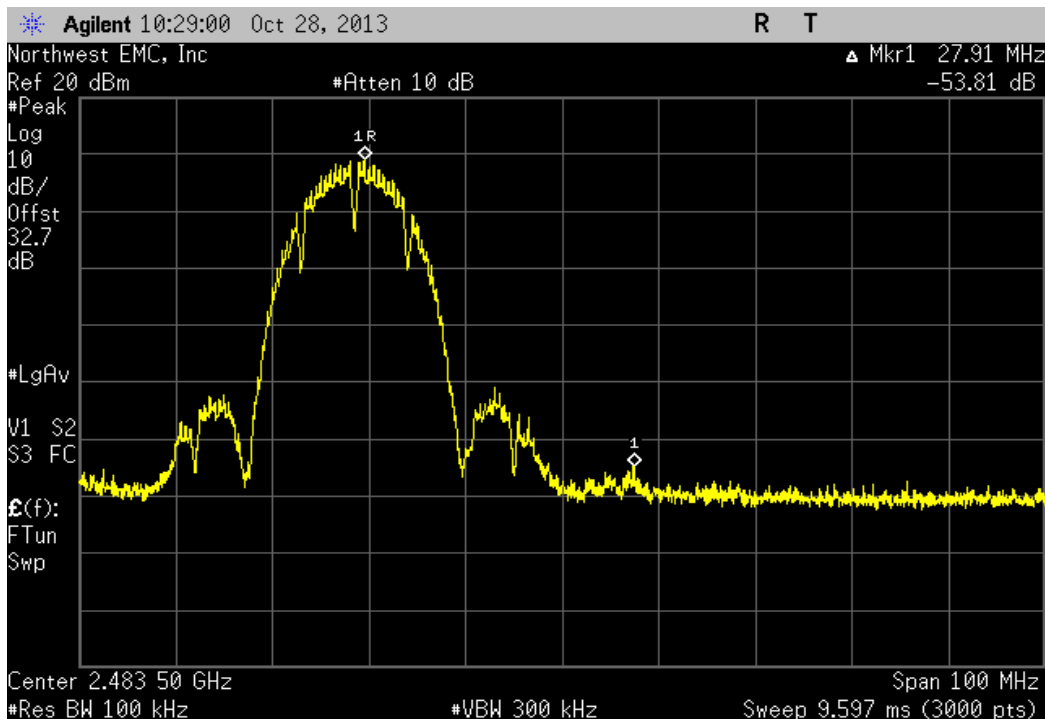
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-39.89 dBc	≤ -20 dBc	Pass



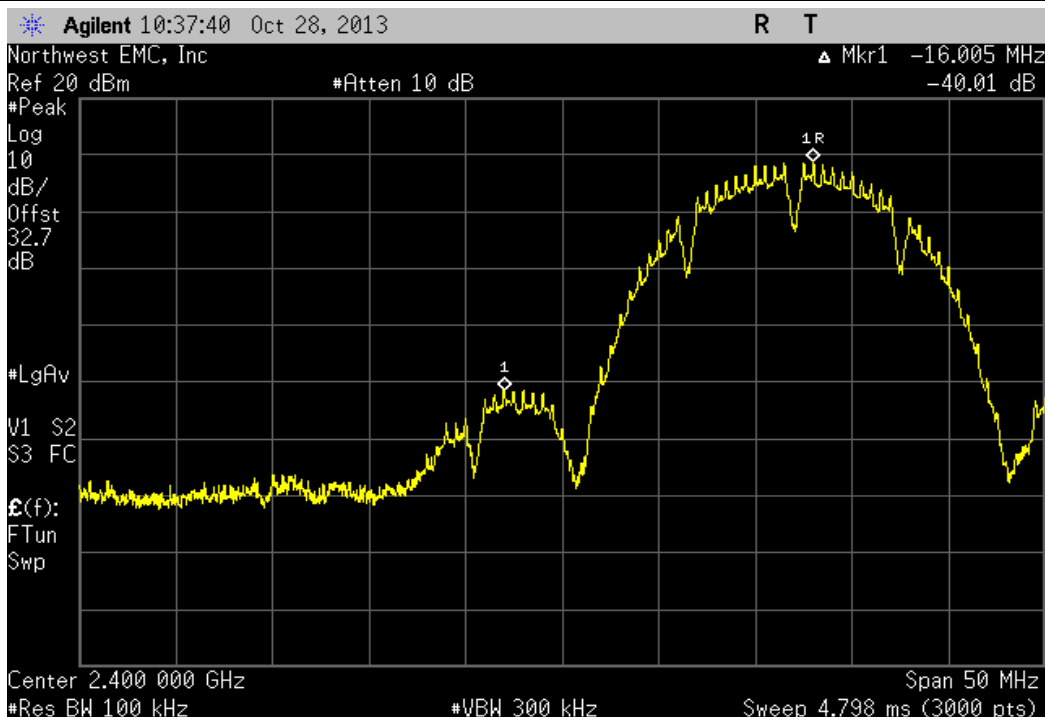
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-53.81 dBc	≤ -20 dBc	Pass



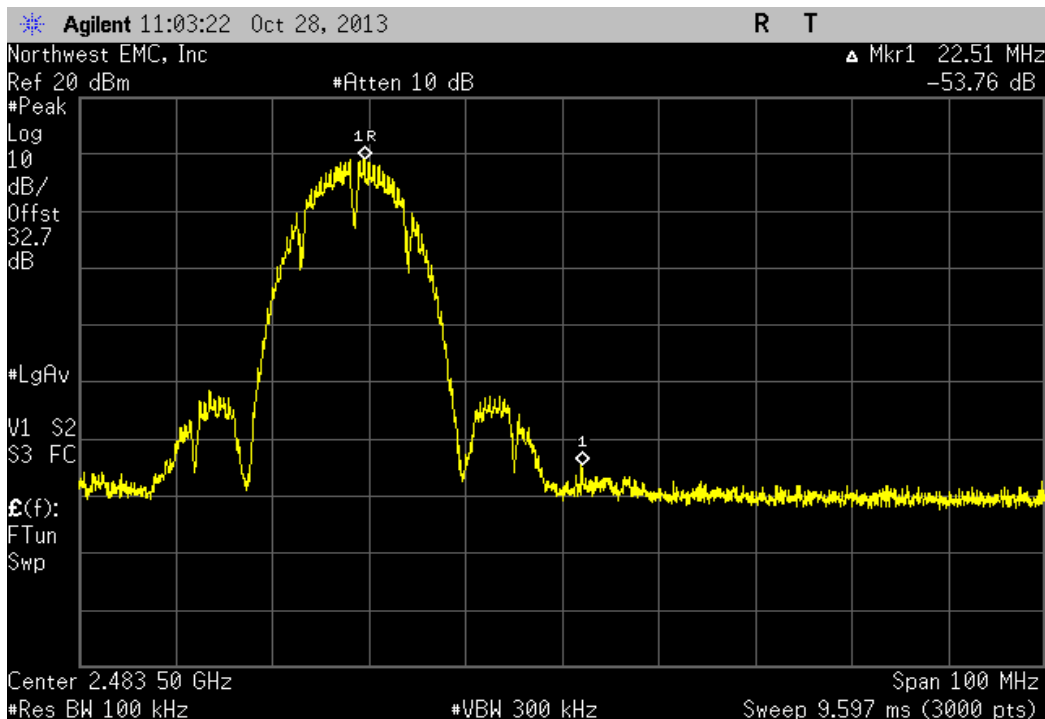
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-40.01 dBc	≤ -20 dBc	Pass



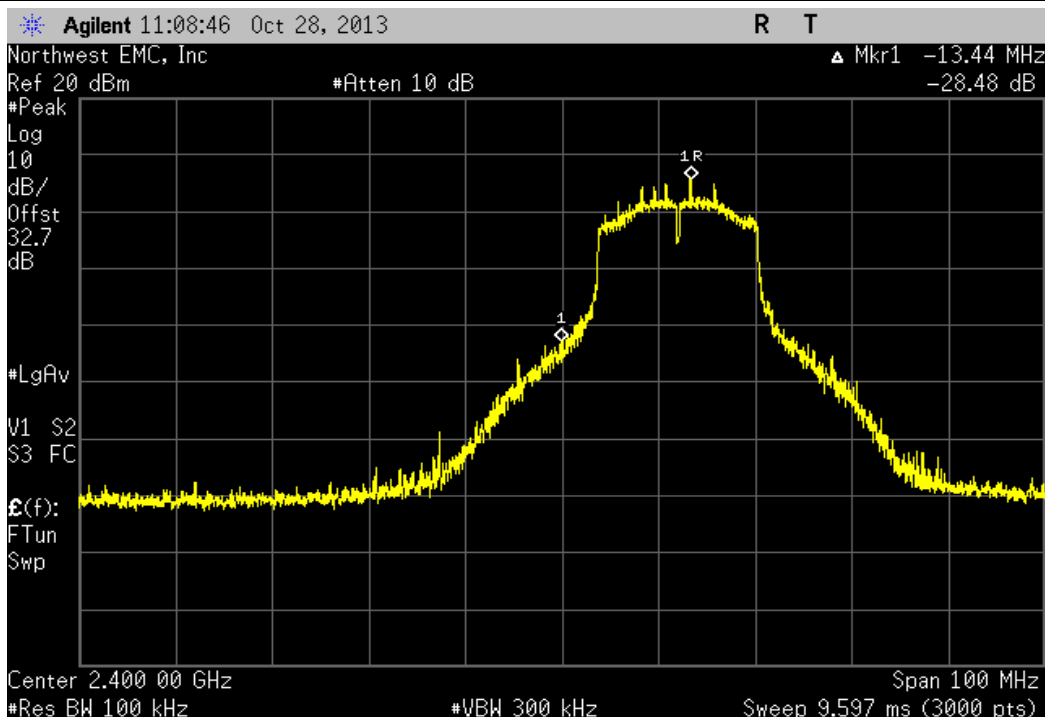
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-53.76 dBc	≤ -20 dBc	Pass



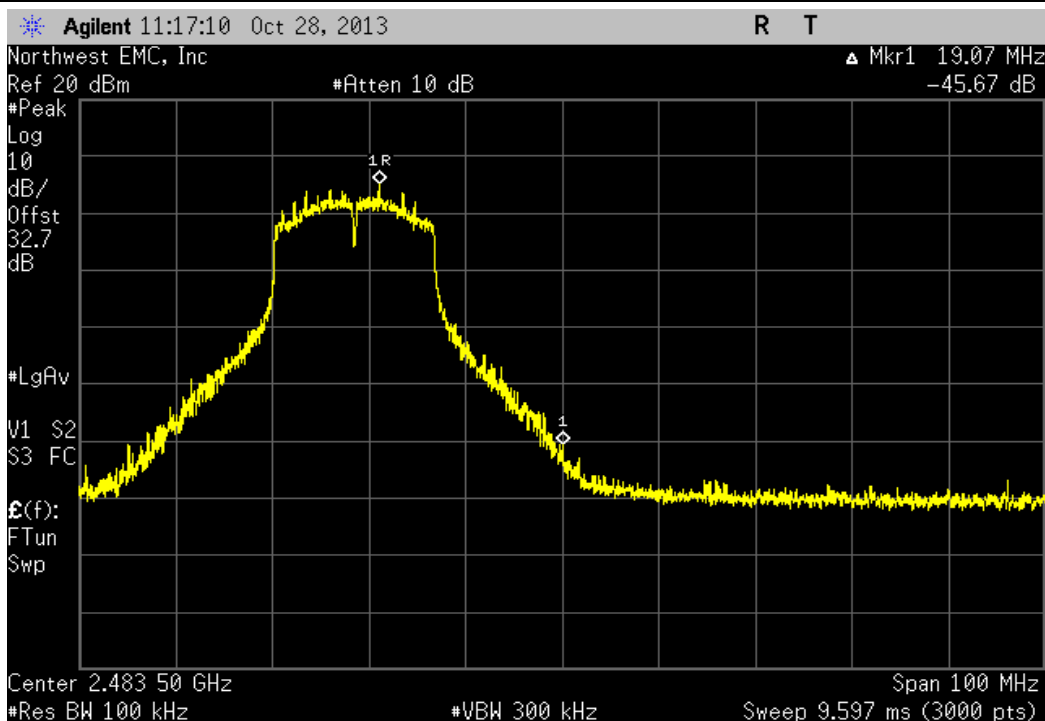
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-28.49 dBc	≤ -20 dBc	Pass



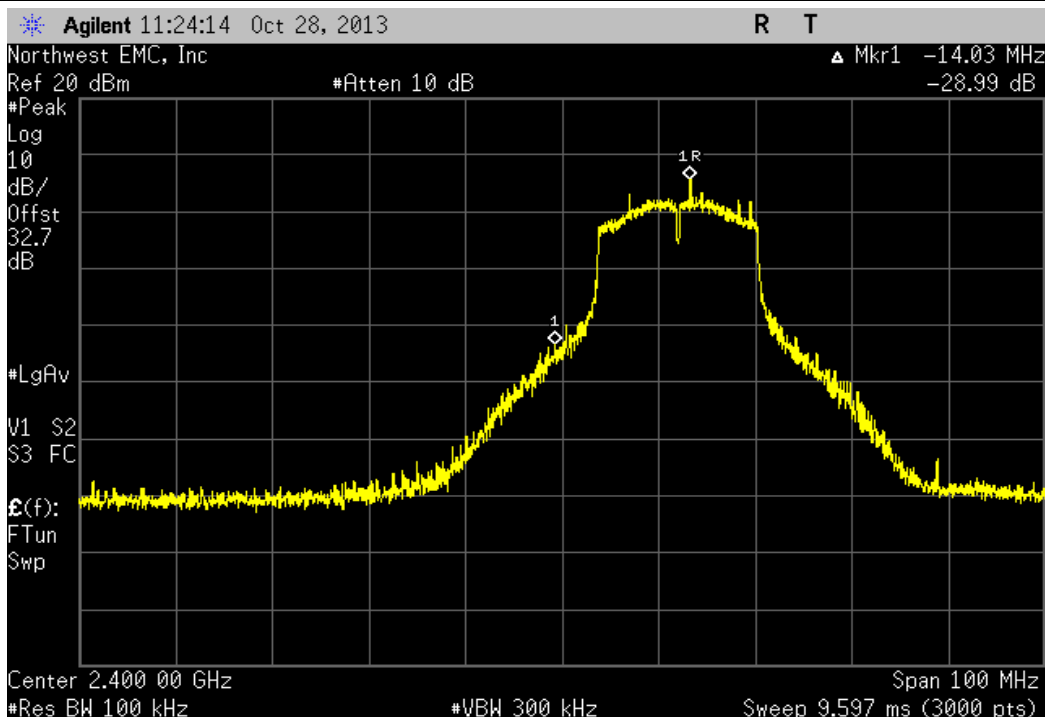
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-45.67 dBc	≤ -20 dBc	Pass



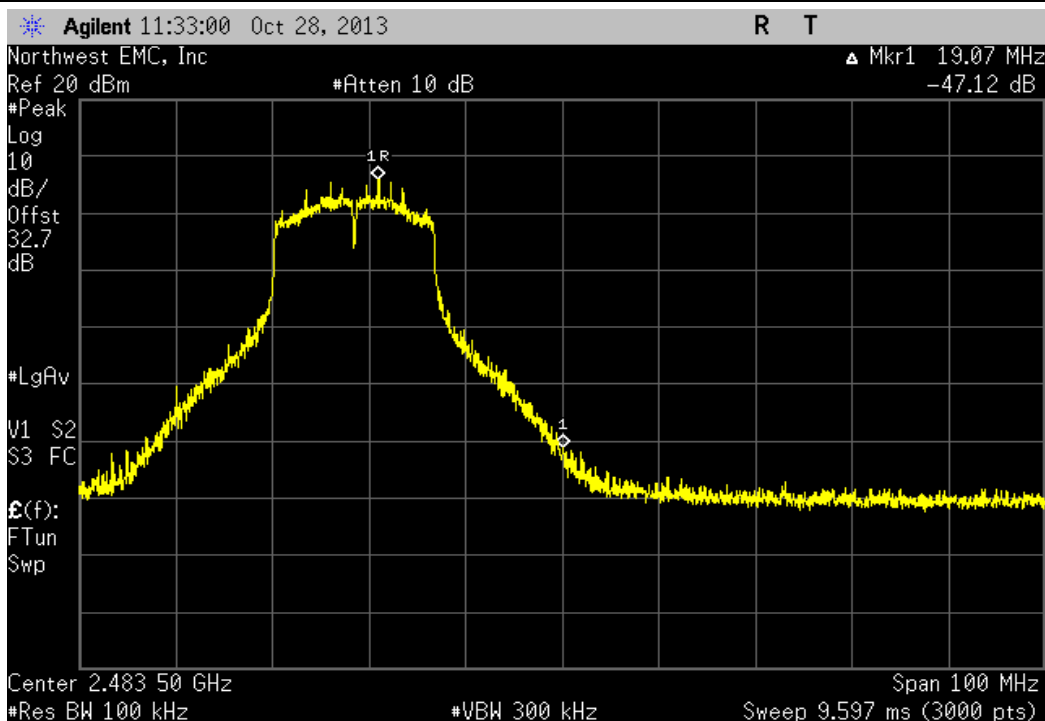
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-28.99 dBc	≤ -20 dBc	Pass



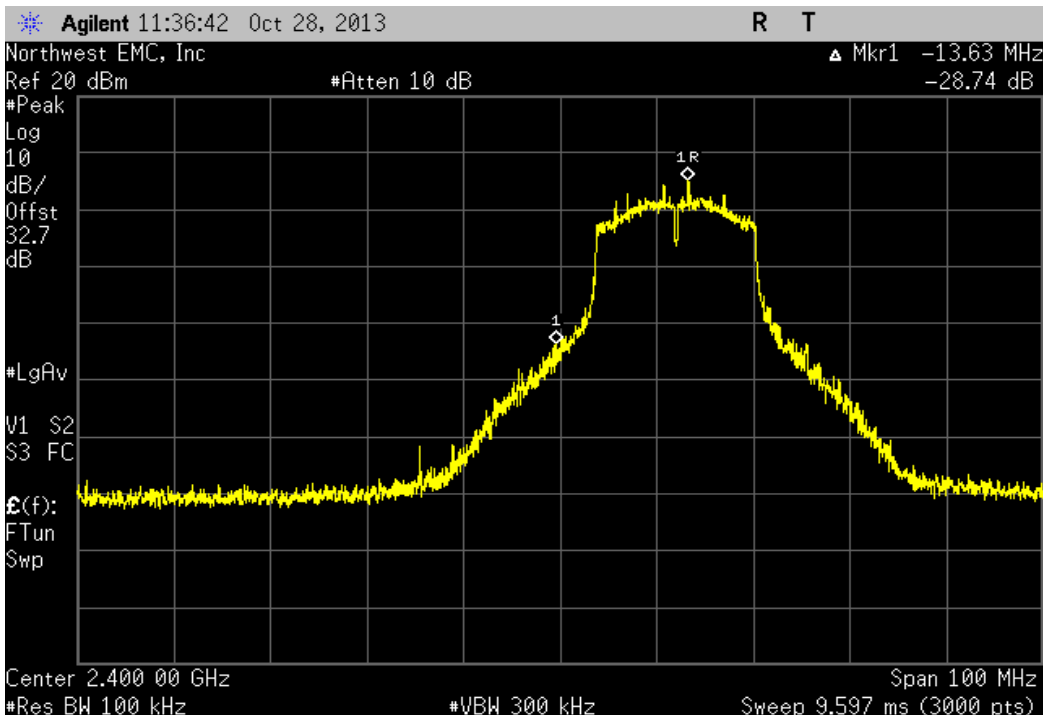
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-47.12 dBc	≤ -20 dBc	Pass



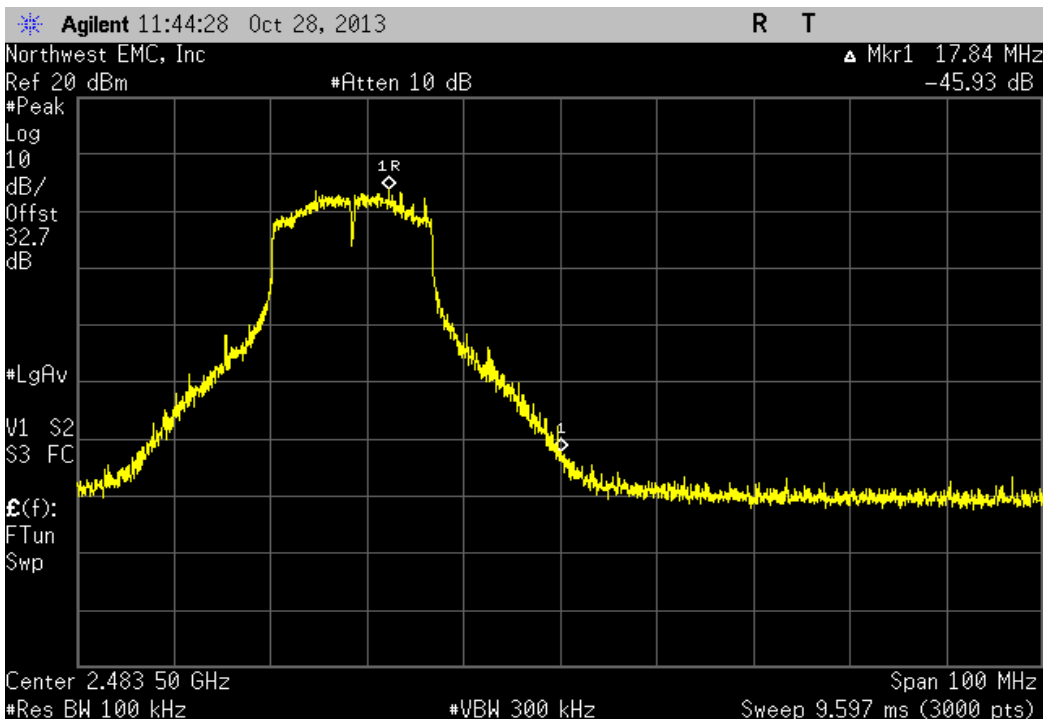
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-28.74 dBc	≤ -20 dBc	Pass



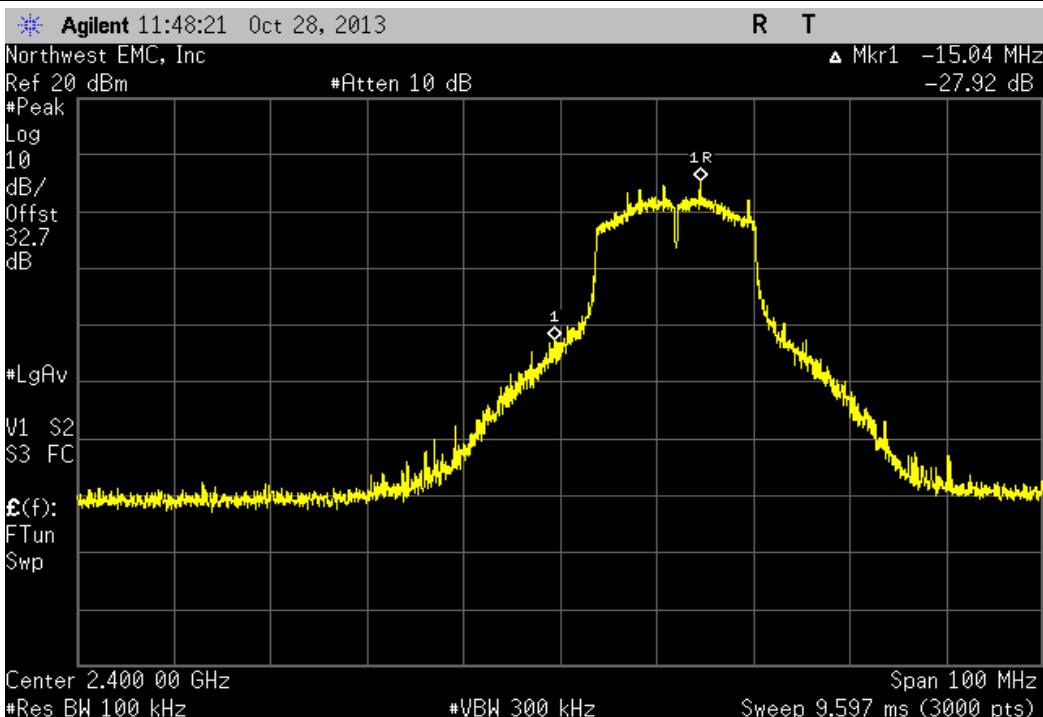
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-45.93 dBc	≤ -20 dBc	Pass



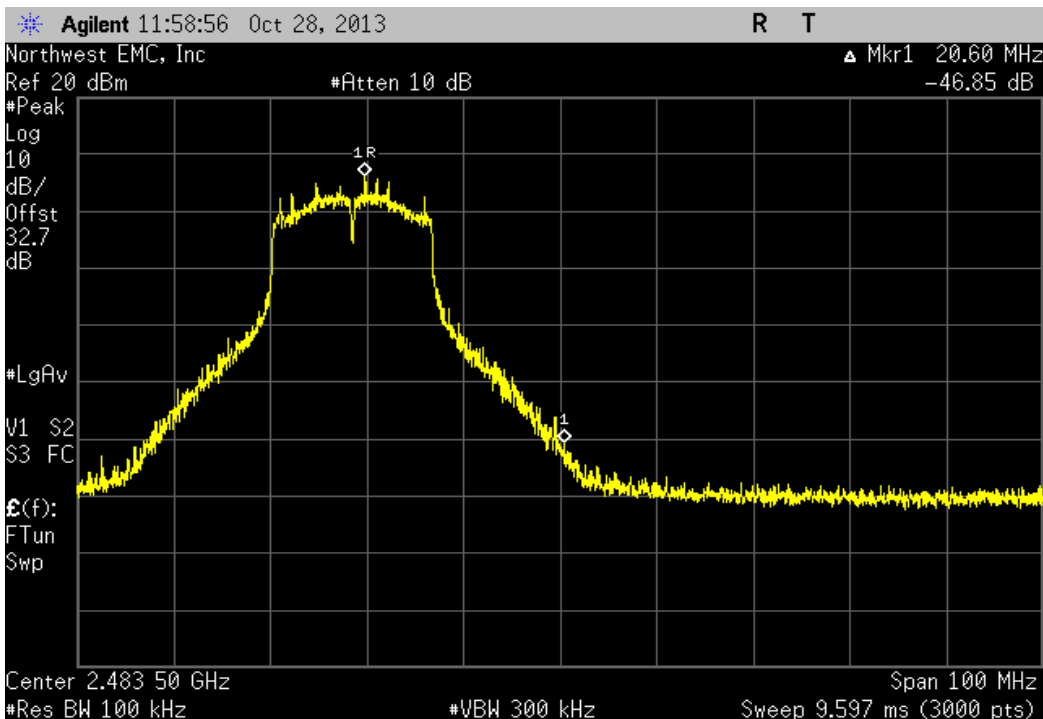
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value	Limit	Result
-27.92 dBc	≤ -20 dBc	Pass



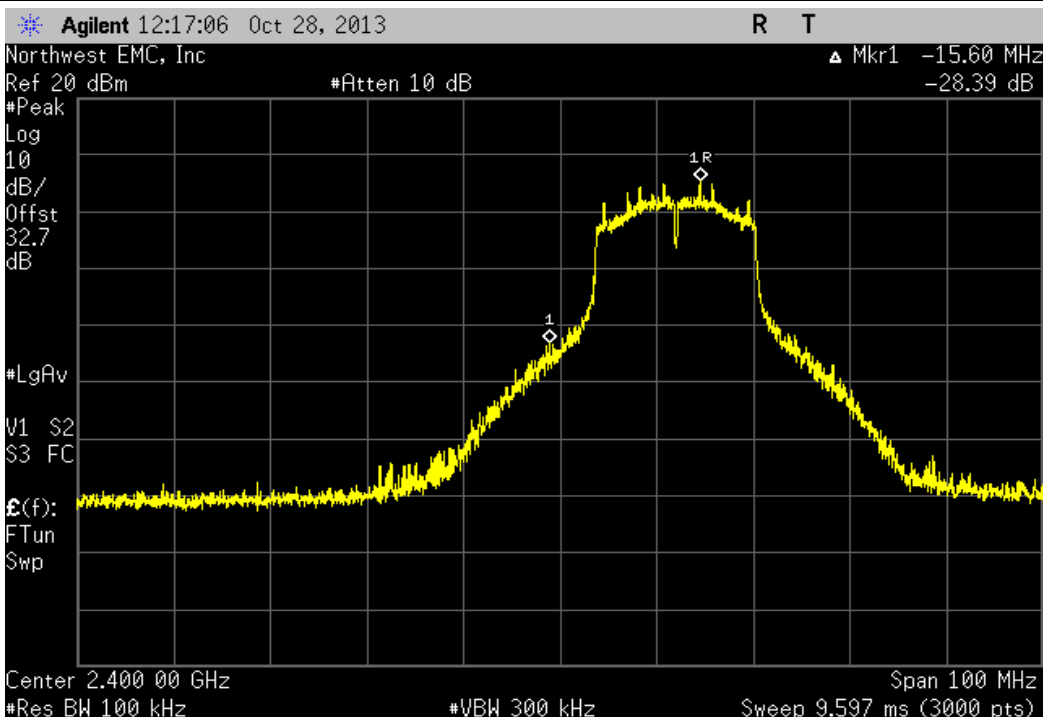
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value	Limit	Result
-46.85 dBc	≤ -20 dBc	Pass



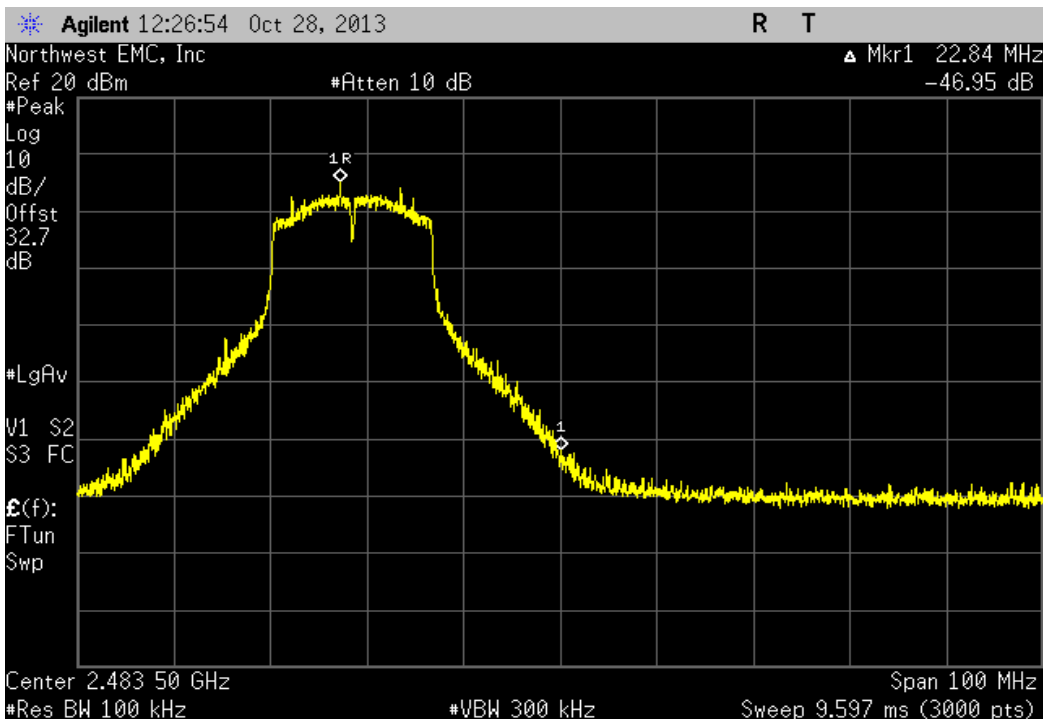
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit	Result
-28.39 dBc	≤ -20 dBc	Pass



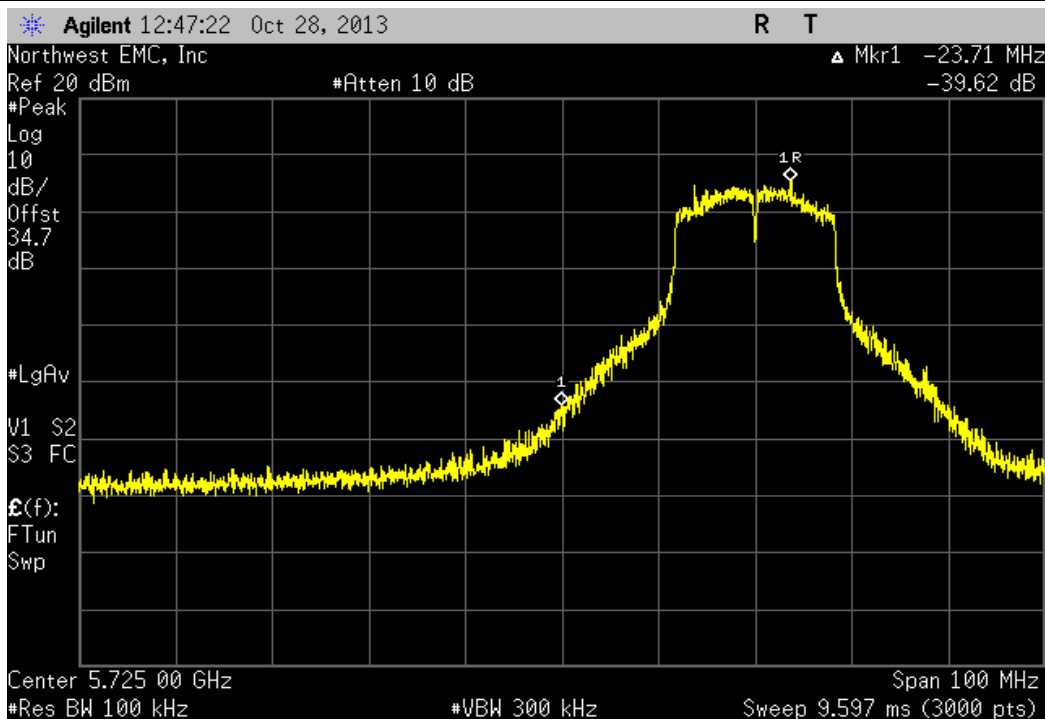
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit	Result
-46.95 dBc	≤ -20 dBc	Pass



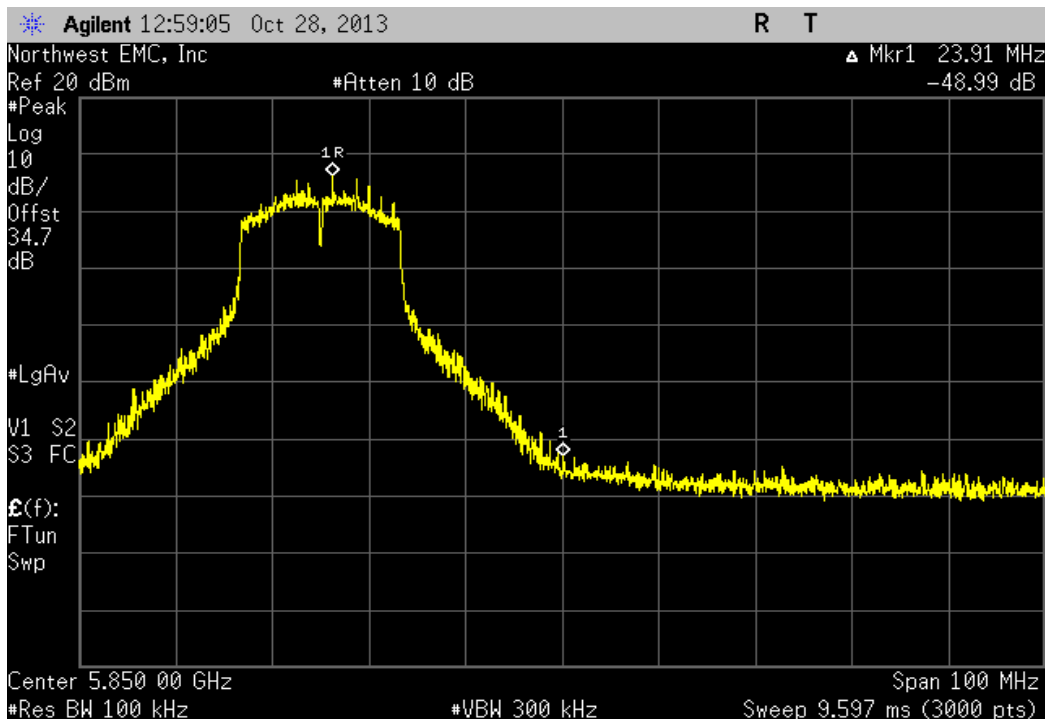
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-39.62 dBc	≤ -20 dBc	Pass



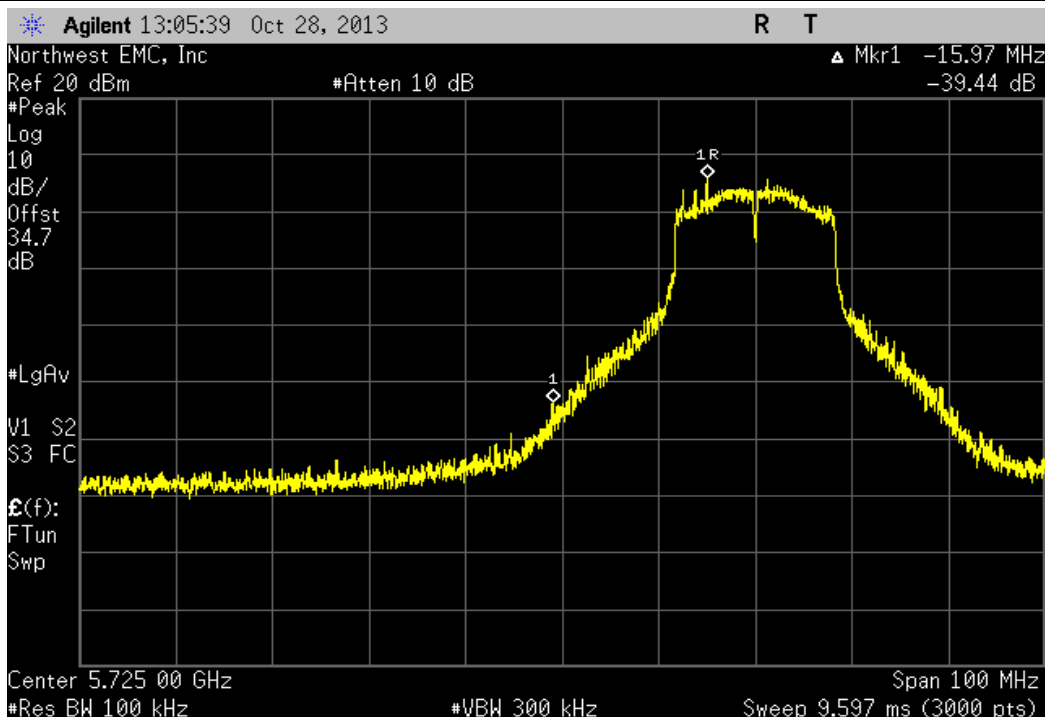
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-48.99 dBc	≤ -20 dBc	Pass



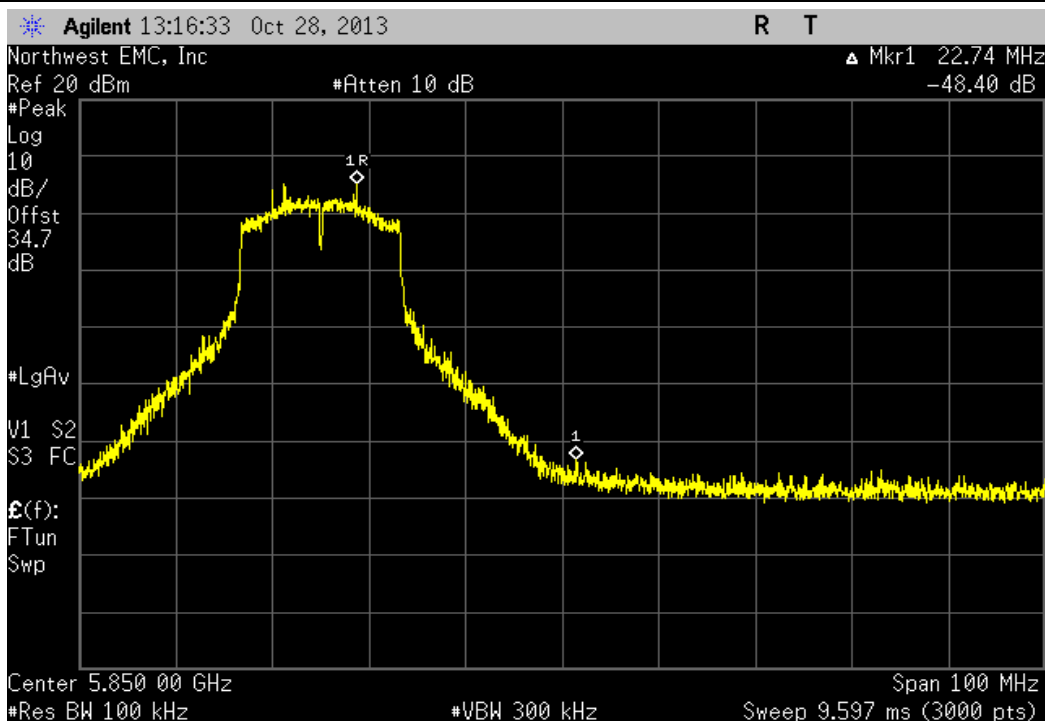
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-39.44 dBc	≤ -20 dBc	Pass



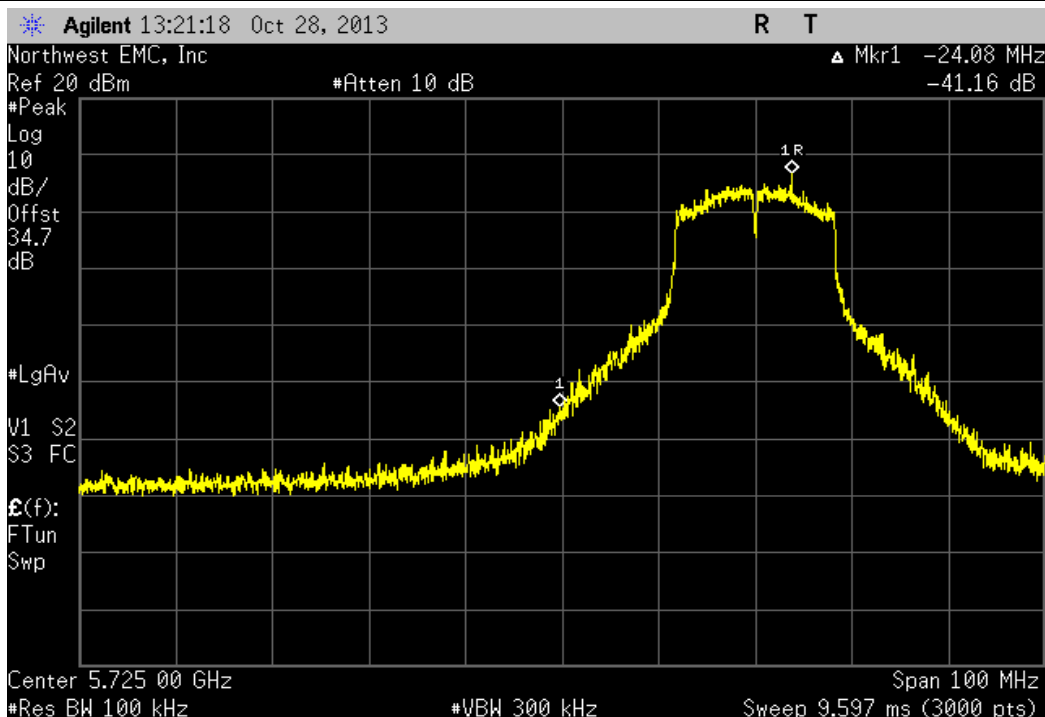
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-48.4 dBc	≤ -20 dBc	Pass



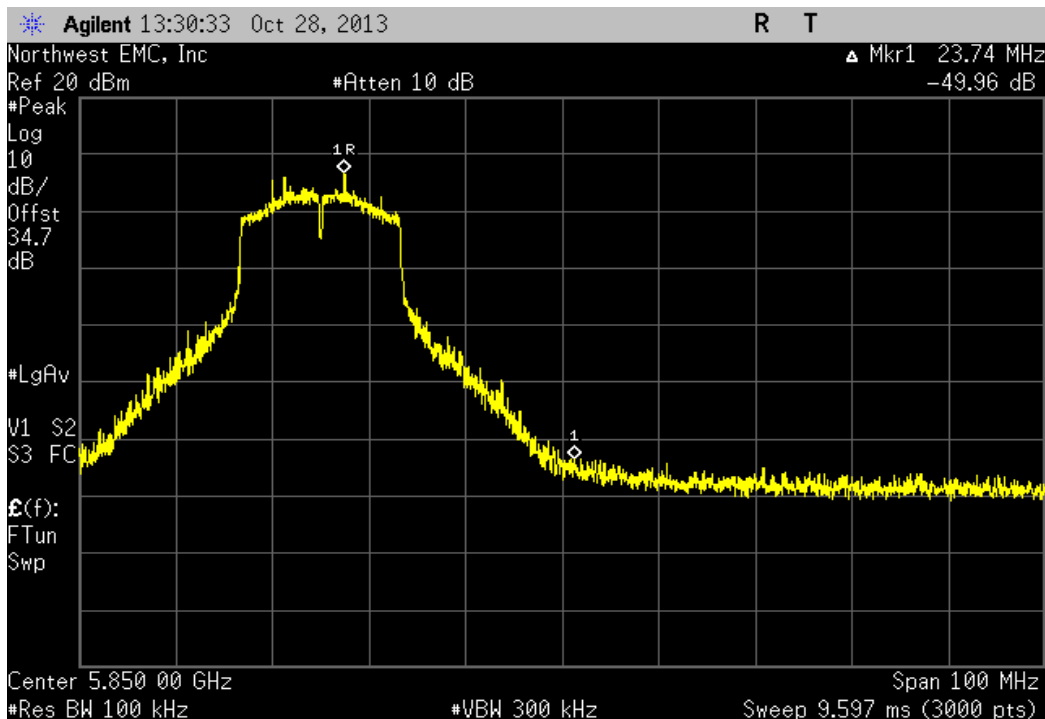
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-41.16 dBc	≤ -20 dBc	Pass



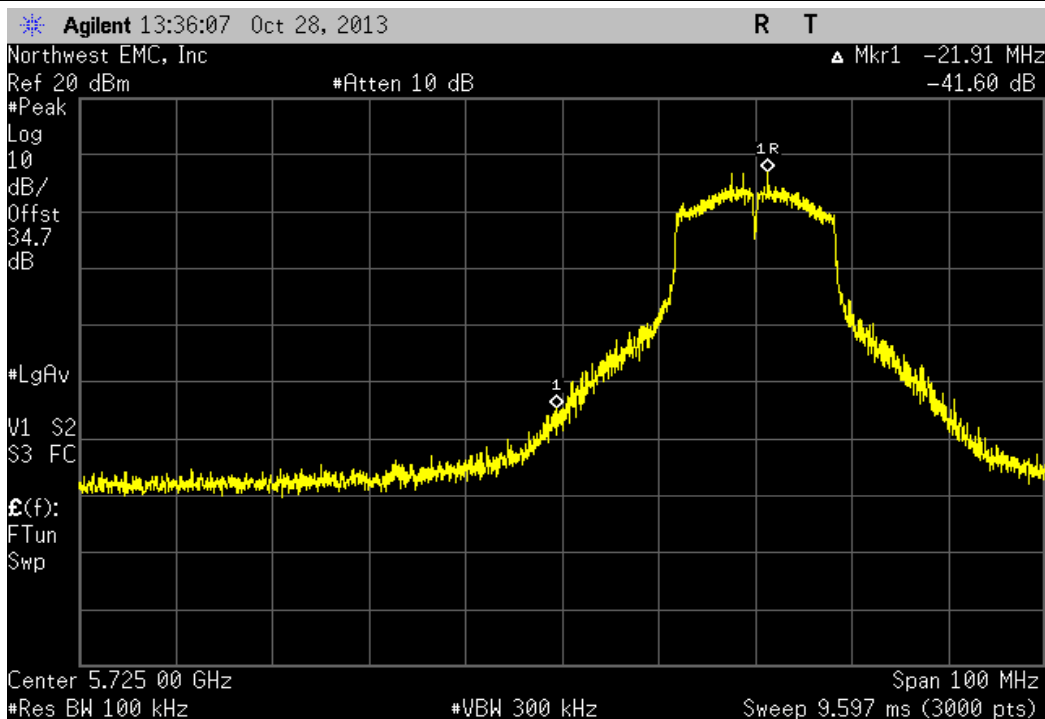
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-49.96 dBc	≤ -20 dBc	Pass



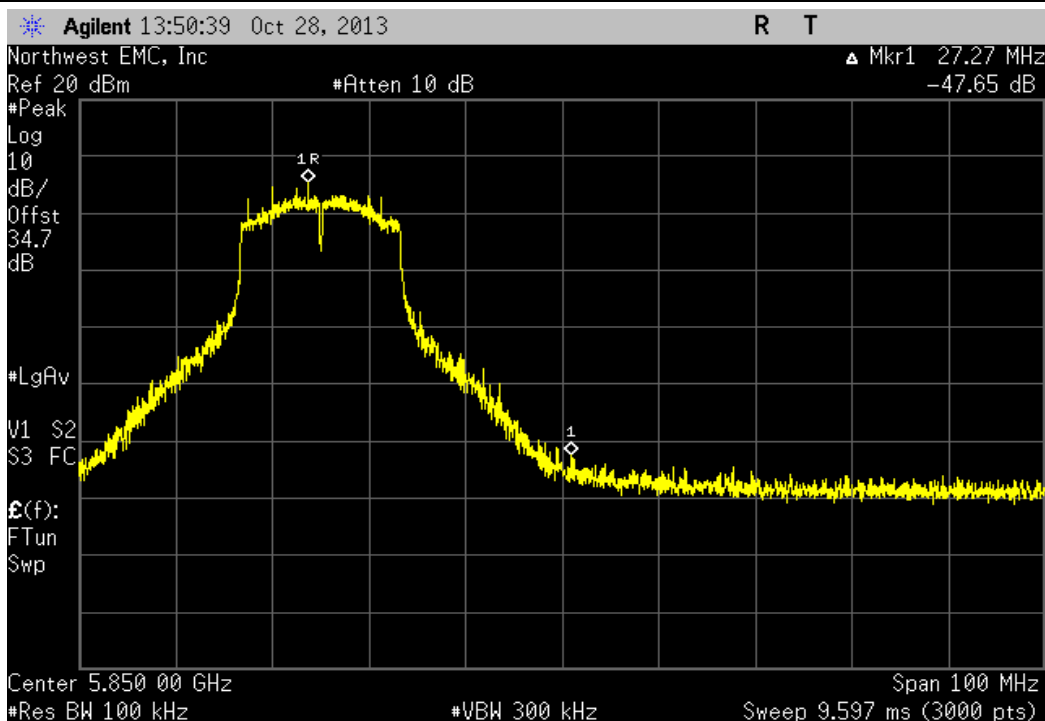
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

	Value	Limit	Result
	-41.6 dBc	≤ -20 dBc	Pass



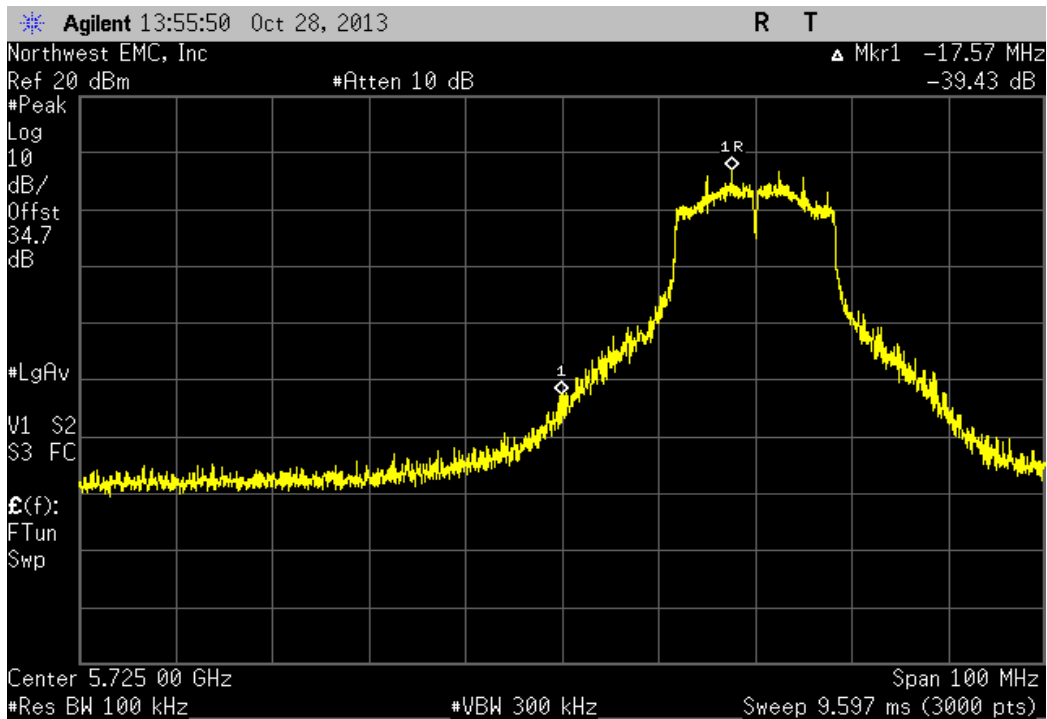
5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

	Value	Limit	Result
	-47.65 dBc	≤ -20 dBc	Pass



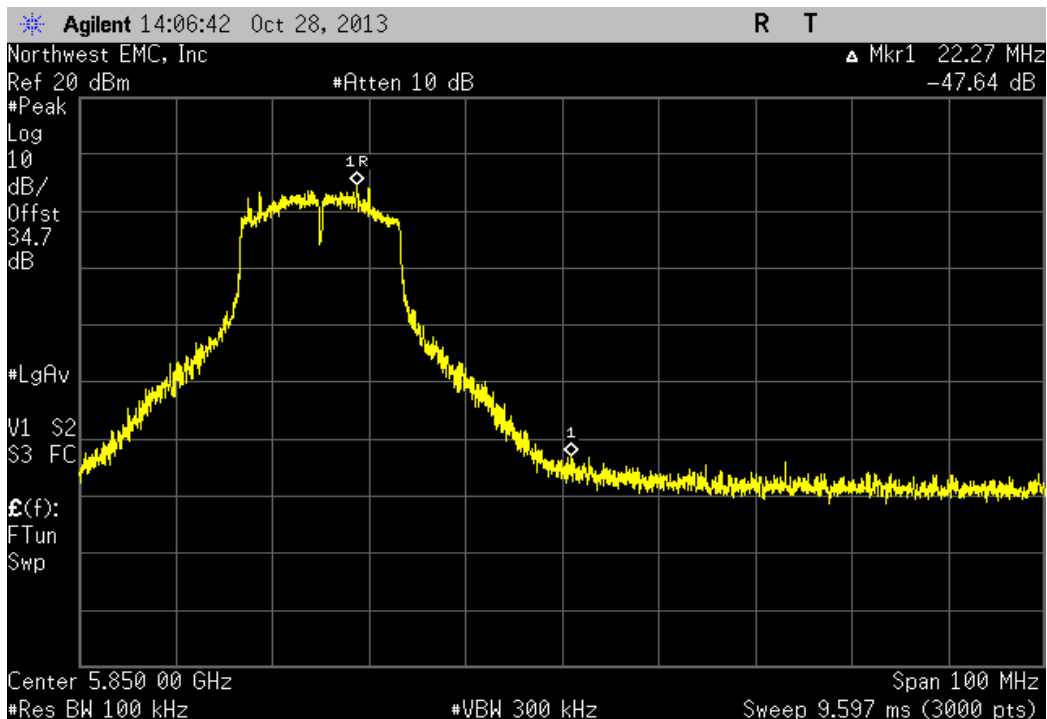
5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
-39.43 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

Value	Limit	Result
-47.64 dBc	≤ -20 dBc	Pass



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

On, Tx (The radio was operated by the customer with their test software for the modes tested)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

INSD0001 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 26500 MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Cable	ESM Cable Corp.	KMKM-72	EVY	9/10/2013	12 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	9/2/2013	12 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	9/2/2013	12 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/20/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/10/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2/27/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2/27/2013	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/20/2013	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/20/2013	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	36 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	36 mo
HP Filter	Micro-Tronics	HPM50111	HFO	7/6/2013	24 mo
LP Filter	Micro-Tronics	LPM50004	LFD	7/6/2012	24 mo
Spectrum Analyzer	Agilent	E4440A	AFD	7/5/2012	24 mo

MEASUREMENT BANDWIDTHS

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

TEST DESCRIPTION

The highest gain 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.



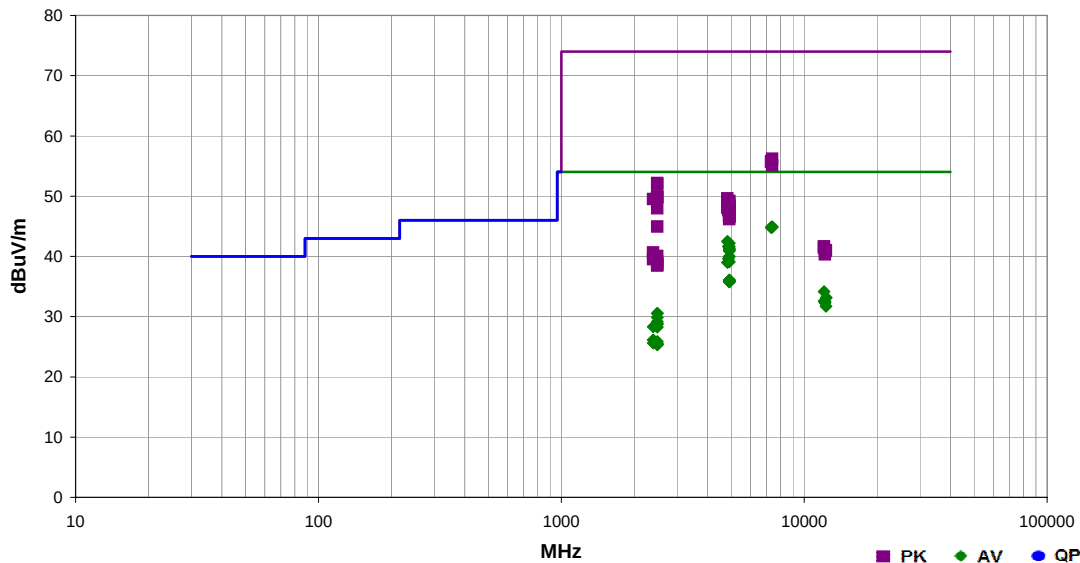
Spurious Radiated Emissions - 2.4 GHz

PSA-ESCI 2012.12.14
EmiR5 2013.08.26

Work Order:	INSD0001	Date:	10/30/13	
Project:	None	Temperature:	22.2 °C	
Job Site:	EV01	Humidity:	31% RH	
Serial Number:	99	Barometric Pres.:	1022 mbar	
EUT:		The EGG		
Configuration:		1		
Customer:		Intel Corporation		
Attendees:		Phil Auzas		
EUT Power:		110VAC/60Hz		
Operating Mode:		On, Tx (The radio was operated by the customer with their test software for the modes tested)		
Deviations:		None		
Comments:		Please reference the data comments for EUT orientation, data rate and frequency		

Test Specifications	Test Method
FCC 15.247:2013	ANSI C63.10:2009

Run #	23	Test Distance (m)	3	Antenna Height(s)	1-4m	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
7383.992	25.8	19.1	1.0	181.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	1 Mbps, High Ch. 2462 MHz, EUT Vert
7383.625	25.8	19.1	1.0	216.0	3.0	0.0	Horz	AV	0.0	44.9	54.0	-9.1	1 Mbps, High Ch. 2462 MHz, EUT Horz
7311.500	25.9	18.9	1.0	130.0	3.0	0.0	Horz	AV	0.0	44.8	54.0	-9.2	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
7308.775	25.9	18.9	2.7	164.0	3.0	0.0	Vert	AV	0.0	44.8	54.0	-9.2	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
4824.033	32.0	10.5	1.7	107.0	3.0	0.0	Vert	AV	0.0	42.5	54.0	-11.5	1 Mbps, Low Ch. 2412 MHz, EUT Vert
4923.933	31.4	10.8	2.3	233.0	3.0	0.0	Vert	AV	0.0	42.2	54.0	-11.8	1 Mbps, High Ch. 2462 MHz, EUT Vert
4873.992	31.0	10.6	1.9	32.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
4923.942	30.8	10.8	1.6	175.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	1 Mbps, High Ch. 2462 MHz, EUT On Side
4923.958	30.5	10.8	1.9	76.0	3.0	0.0	Horz	AV	0.0	41.3	54.0	-12.7	1 Mbps, High Ch. 2462 MHz, EUT Horz
4924.008	30.4	10.8	1.0	316.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	1 Mbps, High Ch. 2462 MHz, EUT Vert
4923.942	30.3	10.8	1.5	151.0	3.0	0.0	Horz	AV	0.0	41.1	54.0	-12.9	11 Mbps, High Ch. 2462 MHz, EUT Horz
4923.983	30.1	10.8	1.6	176.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	1 Mbps, High Ch. 2462 MHz, EUT On Side
4924.000	29.2	10.8	1.6	155.0	3.0	0.0	Vert	AV	0.0	40.0	54.0	-14.0	1 Mbps, High Ch. 2462 MHz, EUT Horz
4873.983	29.0	10.6	1.2	24.0	3.0	0.0	Horz	AV	0.0	39.6	54.0	-14.4	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
4924.042	28.3	10.8	1.0	112.0	3.0	0.0	Vert	AV	0.0	39.1	54.0	-14.9	11 Mbps, High Ch. 2462 MHz, EUT Vert
4824.025	28.5	10.5	1.6	39.0	3.0	0.0	Horz	AV	0.0	39.0	54.0	-15.0	1 Mbps, Low Ch. 2412 MHz, EUT Horz
7386.458	37.1	19.1	1.0	216.0	3.0	0.0	Horz	PK	0.0	56.2	74.0	-17.8	1 Mbps, High Ch. 2462 MHz, EUT Horz
4923.983	25.3	10.8	1.8	150.0	3.0	0.0	Horz	AV	0.0	36.1	54.0	-17.9	MCS7, High Ch. 2462 MHz, EUT Horz
4923.317	25.3	10.8	1.8	242.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	6 Mbps, High Ch. 2462 MHz, EUT Vert
4922.608	25.2	10.8	1.0	26.0	3.0	0.0	Horz	AV	0.0	36.0	54.0	-18.0	36 Mbps, High Ch. 2462 MHz, EUT Horz
4925.108	25.1	10.8	1.0	81.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1	54 Mbps, High Ch. 2462 MHz, EUT Horz
4923.058	25.1	10.8	2.5	11.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	MCS0, High Ch. 2462 MHz, EUT Vert
4922.750	25.1	10.8	2.3	267.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	36 Mbps, High Ch. 2462 MHz, EUT Vert
4921.875	25.1	10.8	1.0	148.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1	MCS0, High Ch. 2462 MHz, EUT Horz
4921.800	25.1	10.8	1.0	52.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1	6 Mbps, High Ch. 2462 MHz, EUT Horz
4921.817	25.1	10.8	1.0	152.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	54 Mbps, High Ch. 2462 MHz, EUT Vert
4921.592	25.0	10.8	2.1	281.0	3.0	0.0	Vert	AV	0.0	35.8	54.0	-18.2	MCS7, High Ch. 2462 MHz, EUT Vert
7311.392	36.8	18.9	2.7	164.0	3.0	0.0	Vert	PK	0.0	55.7	74.0	-18.3	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
7311.117	36.8	18.9	1.0	130.0	3.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
7384.550	36.0	19.1	1.0	181.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	1 Mbps, High Ch. 2462 MHz, EUT Vert
12061.140	40.4	-6.3	1.7	212.0	3.0	0.0	Vert	AV	0.0	34.1	54.0	-19.9	1 Mbps, Low Ch. 2412 MHz, EUT Vert
12310.910	36.7	-3.6	1.0	341.0	3.0	0.0	Horz	AV	0.0	33.1	54.0	-20.9	1 Mbps, High Ch. 2462 MHz, EUT Horz
12061.080	38.8	-6.3	1.0	326.0	3.0	0.0	Horz	AV	0.0	32.5	54.0	-21.5	1 Mbps, Low Ch. 2412 MHz, EUT Horz
12185.900	37.4	-4.9	1.7	209.0	3.0	0.0	Vert	AV	0.0	32.5	54.0	-21.5	1 Mbps, Mid Ch. 2437 MHz, EUT Vert

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
12186.030	37.2	-4.9	1.0	202.0	3.0	0.0	Horz	AV	0.0	32.3	54.0	-21.7	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
2483.737	50.3	1.8	1.0	66.0	3.0	0.0	Horz	PK	0.0	52.1	74.0	-21.9	6 Mbps, High Ch. 2462 MHz, EUT Horz
2483.527	50.1	1.8	1.0	253.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	MSC7, High Ch. 2462 MHz, EUT Horz
12309.310	35.3	-3.6	1.0	252.0	3.0	0.0	Vert	AV	0.0	31.7	54.0	-22.3	1 Mbps, High Ch. 2462 MHz, EUT Vert
2483.503	28.7	1.8	1.0	66.0	3.0	0.0	Horz	AV	0.0	30.5	54.0	-23.5	6 Mbps, High Ch. 2462 MHz, EUT Horz
2483.500	28.7	1.8	1.0	253.0	3.0	0.0	Horz	AV	0.0	30.5	54.0	-23.5	MSC7, High Ch. 2462 MHz, EUT Horz
2483.670	48.1	1.8	1.7	286.0	3.0	0.0	Horz	PK	0.0	49.9	74.0	-24.1	6 Mbps, High Ch. 2462 MHz, EUT On Side
2483.570	48.0	1.8	1.1	43.0	3.0	0.0	Vert	PK	0.0	49.8	74.0	-24.2	6 Mbps, High Ch. 2462 MHz, EUT On Side
2483.523	48.0	1.8	1.0	295.0	3.0	0.0	Vert	PK	0.0	49.8	74.0	-24.2	6 Mbps, High Ch. 2462 MHz, EUT Vert
2483.500	28.0	1.8	1.7	286.0	3.0	0.0	Horz	AV	0.0	29.8	54.0	-24.2	6 Mbps, High Ch. 2462 MHz, EUT On Side
4823.992	39.1	10.5	1.7	107.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	1 Mbps, Low Ch. 2412 MHz, EUT Vert
2388.847	48.0	1.5	1.0	271.0	3.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	6 Mbps, Low Ch. 2412 MHz, EUT Horz
4924.033	38.4	10.8	2.3	233.0	3.0	0.0	Vert	PK	0.0	49.2	74.0	-24.8	1 Mbps, High Ch. 2462 MHz, EUT Vert
2483.500	27.3	1.8	1.1	43.0	3.0	0.0	Vert	AV	0.0	29.1	54.0	-24.9	6 Mbps, High Ch. 2462 MHz, EUT On Side
4923.733	38.3	10.8	1.9	76.0	3.0	0.0	Horz	PK	0.0	49.1	74.0	-24.9	1 Mbps, High Ch. 2462 MHz, EUT Horz
2483.500	27.0	1.8	1.0	295.0	3.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	6 Mbps, High Ch. 2462 MHz, EUT Vert
2483.500	26.9	1.8	1.0	122.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	6 Mbps, High Ch. 2462 MHz, EUT Vert
4924.158	37.9	10.8	1.6	175.0	3.0	0.0	Vert	PK	0.0	48.7	74.0	-25.3	1 Mbps, High Ch. 2462 MHz, EUT On Side
4873.767	38.0	10.6	1.9	32.0	3.0	0.0	Vert	PK	0.0	48.6	74.0	-25.4	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
2389.993	26.8	1.5	1.0	271.0	3.0	0.0	Horz	AV	0.0	28.3	54.0	-25.7	6 Mbps, Low Ch. 2412 MHz, EUT Horz
4923.850	37.5	10.8	1.0	316.0	3.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	1 Mbps, High Ch. 2462 MHz, EUT Vert
2483.560	26.4	1.8	1.4	238.0	3.0	0.0	Horz	AV	0.0	28.2	54.0	-25.8	54 Mbps, High Ch. 2462 MHz, EUT Horz
4924.083	37.4	10.8	1.6	176.0	3.0	0.0	Horz	PK	0.0	48.2	74.0	-25.8	1 Mbps, High Ch. 2462 MHz, EUT On Side
4824.333	37.6	10.5	1.6	39.0	3.0	0.0	Horz	PK	0.0	48.1	74.0	-25.9	1 Mbps, Low Ch. 2412 MHz, EUT Horz
4924.108	37.3	10.8	1.6	155.0	3.0	0.0	Vert	PK	0.0	48.1	74.0	-25.9	1 Mbps, High Ch. 2462 MHz, EUT Horz
4926.242	37.2	10.8	2.5	11.0	3.0	0.0	Vert	PK	0.0	48.0	74.0	-26.0	MCS0, High Ch. 2462 MHz, EUT Vert
4924.075	37.2	10.8	1.5	151.0	3.0	0.0	Horz	PK	0.0	48.0	74.0	-26.0	11 Mbps, High Ch. 2462 MHz, EUT Horz
2483.590	46.1	1.8	1.0	122.0	3.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1	6 Mbps, High Ch. 2462 MHz, EUT Vert
4873.867	37.0	10.6	1.2	24.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
4923.983	36.8	10.8	1.0	112.0	3.0	0.0	Vert	PK	0.0	47.6	74.0	-26.4	11 Mbps, High Ch. 2462 MHz, EUT Vert
4925.567	36.3	10.8	1.0	81.0	3.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	54 Mbps, High Ch. 2462 MHz, EUT Horz
4925.242	36.1	10.8	2.3	267.0	3.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	36 Mbps, High Ch. 2462 MHz, EUT Vert
4925.792	36.0	10.8	1.8	242.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	6 Mbps, High Ch. 2462 MHz, EUT Vert
4922.567	36.0	10.8	1.0	52.0	3.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	6 Mbps, High Ch. 2462 MHz, EUT Horz
4923.833	35.9	10.8	1.8	150.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	MCS7, High Ch. 2462 MHz, EUT Horz
4923.675	35.9	10.8	2.1	281.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	MCS7, High Ch. 2462 MHz, EUT Vert
4921.933	35.8	10.8	1.0	26.0	3.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	36 Mbps, High Ch. 2462 MHz, EUT Horz
4921.900	35.7	10.8	1.0	152.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	54 Mbps, High Ch. 2462 MHz, EUT Vert
4921.758	35.4	10.8	1.0	148.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	MCS0, High Ch. 2462 MHz, EUT Horz
2388.000	24.6	1.5	1.4	234.0	3.0	0.0	Horz	AV	0.0	26.1	54.0	-27.9	1 Mbps, Low Ch. 2412 MHz, EUT Horz
2485.343	24.0	1.9	1.0	101.0	3.0	0.0	Horz	AV	0.0	25.9	54.0	-28.1	11 Mbps, High Ch. 2462 MHz, EUT Vert
2389.997	24.1	1.5	1.0	107.0	3.0	0.0	Vert	AV	0.0	25.6	54.0	-28.4	6 Mbps, Low Ch. 2412 MHz, EUT Horz
2485.390	23.7	1.9	1.0	21.0	3.0	0.0	Horz	AV	0.0	25.6	54.0	-28.4	1 Mbps, High Ch. 2462 MHz, EUT Horz
2483.503	23.6	1.8	1.0	323.0	3.0	0.0	Vert	AV	0.0	25.4	54.0	-28.6	6 Mbps, High Ch. 2462 MHz, EUT Horz
2485.363	23.5	1.9	1.0	315.0	3.0	0.0	Horz	AV	0.0	25.4	54.0	-28.6	MCS0, High Ch. 2462 MHz, EUT Horz
2484.487	23.5	1.9	1.0	85.0	3.0	0.0	Horz	AV	0.0	25.4	54.0	-28.6	36 Mbps, High Ch. 2462 MHz, EUT Horz
2483.947	43.1	1.8	1.4	238.0	3.0	0.0	Horz	PK	0.0	44.9	74.0	-29.1	54 Mbps, High Ch. 2462 MHz, EUT Horz
12059.750	47.9	-6.3	1.7	212.0	3.0	0.0	Vert	PK	0.0	41.6	74.0	-32.4	1 Mbps, Low Ch. 2412 MHz, EUT Vert
12061.710	47.7	-6.3	1.0	326.0	3.0	0.0	Horz	PK	0.0	41.4	74.0	-32.6	1 Mbps, Low Ch. 2412 MHz, EUT Horz
12308.170	44.6	-3.6	1.0	341.0	3.0	0.0	Horz	PK	0.0	41.0	74.0	-33.0	1 Mbps, High Ch. 2462 MHz, EUT Horz
12309.600	44.5	-3.6	1.0	252.0	3.0	0.0	Vert	PK	0.0	40.9	74.0	-33.1	1 Mbps, High Ch. 2462 MHz, EUT Vert
12185.020	45.8	-4.9	1.7	209.0	3.0	0.0	Vert	PK	0.0	40.9	74.0	-33.1	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
2389.743	39.1	1.5	1.0	107.0	3.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	6 Mbps, Low Ch. 2412 MHz, EUT Horz
12186.930	45.2	-4.9	1.0	202.0	3.0	0.0	Horz	PK	0.0	40.3	74.0	-33.7	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
2484.723	38.2	1.9	1.0	101.0	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	11 Mbps, High Ch. 2462 MHz, EUT Vert
2388.073	38.0	1.5	1.4	234.0	3.0	0.0	Horz	PK	0.0	39.5	74.0	-34.5	1 Mbps, Low Ch. 2412 MHz, EUT Horz
2484.033	37.3	1.8	1.0	323.0	3.0	0.0	Vert	PK	0.0	39.1	74.0	-34.9	6 Mbps, High Ch. 2462 MHz, EUT Horz
2485.233	36.8	1.9	1.0	315.0	3.0	0.0	Horz	PK	0.0	38.7	74.0	-35.3	MCS0, High Ch. 2462 MHz, EUT Horz
2485.097	36.7	1.9	1.0	21.0	3.0	0.0	Horz	PK	0.0	38.6	74.0	-35.4	1 Mbps, High Ch. 2462 MHz, EUT Horz
2484.730	36.6	1.9	1.0	85.0	3.0	0.0	Horz	PK	0.0	38.5	74.0	-35.5	36 Mbps, High Ch. 2462 MHz, EUT Horz

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, 2.4GHz AND 5GHz BANDS

802.11(a) 6Mbps

802.11(a) 36Mbps

802.11(a) 54Mbps

802.11(n) MCS0

802.11(n) MCS7

CHANNELS TESTED, 2.4GHz AND 5GHz BANDS

Channel 1, 2412 MHz

Channel 6, 2437 MHz

Channel 11, 2462 MHz

Channel 149, 5745 MHz

Channel 157, 5785 MHz

Channel 165, 5825 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

INSDD0001 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency | 30 MHz

Stop Frequency | 26500 MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Cable	ESM Cable Corp.	KMKM-72	EVY	9/10/2013	12 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	9/2/2013	12 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	9/2/2013	12 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/20/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/10/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2/27/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2/27/2013	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/20/2013	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/20/2013	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	36 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	36 mo
HP Filter	Micro-Tronics	HPM50111	HFO	7/6/2013	24 mo
LP Filter	Micro-Tronics	LPM50004	LFD	7/6/2012	24 mo
Spectrum Analyzer	Agilent	E4440A	AFD	7/5/2012	24 mo

MEASUREMENT BANDWIDTHS

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

TEST DESCRIPTION

The highest gain 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. (The radio was operated with the customer's test software for the modes tested)

Power Setting by Band:

2412MHz – 2462MHz, Power setting of 21000

5745MHz – 5825MHz, Power setting of 21000



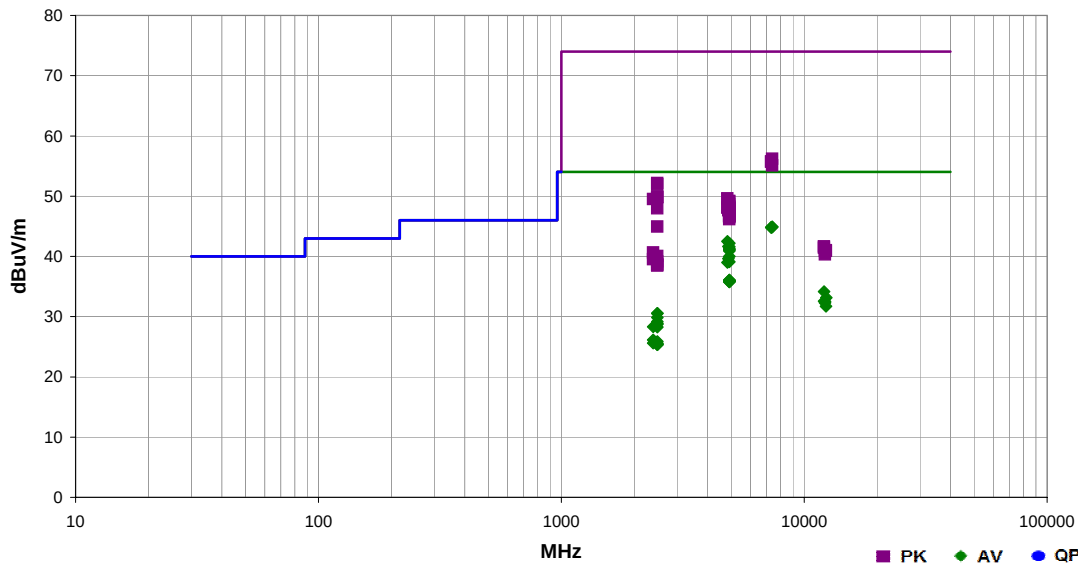
Spurious Radiated Emissions - 5.8 GHz

PSA-ESCI 2012.12.14
EmiR5 2013.08.26

Work Order:	INSD0001	Date:	10/30/13	
Project:	None	Temperature:	22.2 °C	
Job Site:	EV01	Humidity:	31% RH	
Serial Number:	99	Barometric Pres.:	1022 mbar	
EUT:	The EGG			
Configuration:	1			
Customer:	Intel Corporation			
Attendees:	Phil Auzas			
EUT Power:	110VAC/60Hz			
Operating Mode:	On, Tx (The radio was operated by the customer with their test software for the modes tested)			
Deviations:	None			
Comments:	Please reference the data comments for EUT orientation, data rate and frequency			

Test Specifications	Test Method
FCC 15.247:2013	ANSI C63.10:2009

Run #	23	Test Distance (m)	3	Antenna Height(s)	1-4m	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
7383.992	25.8	19.1	1.0	181.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	1 Mbps, High Ch. 2462 MHz, EUT Vert
7383.625	25.8	19.1	1.0	216.0	3.0	0.0	Horz	AV	0.0	44.9	54.0	-9.1	1 Mbps, High Ch. 2462 MHz, EUT Horz
7311.500	25.9	18.9	1.0	130.0	3.0	0.0	Horz	AV	0.0	44.8	54.0	-9.2	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
7308.775	25.9	18.9	2.7	164.0	3.0	0.0	Vert	AV	0.0	44.8	54.0	-9.2	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
4824.033	32.0	10.5	1.7	107.0	3.0	0.0	Vert	AV	0.0	42.5	54.0	-11.5	1 Mbps, Low Ch. 2412 MHz, EUT Vert
4923.933	31.4	10.8	2.3	233.0	3.0	0.0	Vert	AV	0.0	42.2	54.0	-11.8	1 Mbps, High Ch. 2462 MHz, EUT Vert
4873.992	31.0	10.6	1.9	32.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
4923.942	30.8	10.8	1.6	175.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	1 Mbps, High Ch. 2462 MHz, EUT On Side
4923.958	30.5	10.8	1.9	76.0	3.0	0.0	Horz	AV	0.0	41.3	54.0	-12.7	1 Mbps, High Ch. 2462 MHz, EUT Horz
4924.008	30.4	10.8	1.0	316.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	1 Mbps, High Ch. 2462 MHz, EUT Vert
4923.942	30.3	10.8	1.5	151.0	3.0	0.0	Horz	AV	0.0	41.1	54.0	-12.9	11 Mbps, High Ch. 2462 MHz, EUT Horz
4923.983	30.1	10.8	1.6	176.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	1 Mbps, High Ch. 2462 MHz, EUT On Side
4924.000	29.2	10.8	1.6	155.0	3.0	0.0	Vert	AV	0.0	40.0	54.0	-14.0	1 Mbps, High Ch. 2462 MHz, EUT Horz
4873.983	29.0	10.6	1.2	24.0	3.0	0.0	Horz	AV	0.0	39.6	54.0	-14.4	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
4924.042	28.3	10.8	1.0	112.0	3.0	0.0	Vert	AV	0.0	39.1	54.0	-14.9	11 Mbps, High Ch. 2462 MHz, EUT Vert
4824.025	28.5	10.5	1.6	39.0	3.0	0.0	Horz	AV	0.0	39.0	54.0	-15.0	1 Mbps, Low Ch. 2412 MHz, EUT Horz
7386.458	37.1	19.1	1.0	216.0	3.0	0.0	Horz	PK	0.0	56.2	74.0	-17.8	1 Mbps, High Ch. 2462 MHz, EUT Horz
4923.983	25.3	10.8	1.8	150.0	3.0	0.0	Horz	AV	0.0	36.1	54.0	-17.9	MCS7, High Ch. 2462 MHz, EUT Horz
4923.317	25.3	10.8	1.8	242.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	6 Mbps, High Ch. 2462 MHz, EUT Vert
4922.608	25.2	10.8	1.0	26.0	3.0	0.0	Horz	AV	0.0	36.0	54.0	-18.0	36 Mbps, High Ch. 2462 MHz, EUT Horz
4925.108	25.1	10.8	1.0	81.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1	54 Mbps, High Ch. 2462 MHz, EUT Horz
4923.058	25.1	10.8	2.5	11.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	MCS0, High Ch. 2462 MHz, EUT Vert
4922.750	25.1	10.8	2.3	267.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	36 Mbps, High Ch. 2462 MHz, EUT Vert
4921.875	25.1	10.8	1.0	148.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1	MCS0, High Ch. 2462 MHz, EUT Horz
4921.800	25.1	10.8	1.0	52.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1	6 Mbps, High Ch. 2462 MHz, EUT Horz
4921.817	25.1	10.8	1.0	152.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	54 Mbps, High Ch. 2462 MHz, EUT Vert
4921.592	25.0	10.8	2.1	281.0	3.0	0.0	Vert	AV	0.0	35.8	54.0	-18.2	MCS7, High Ch. 2462 MHz, EUT Vert
7311.392	36.8	18.9	2.7	164.0	3.0	0.0	Vert	PK	0.0	55.7	74.0	-18.3	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
7311.117	36.8	18.9	1.0	130.0	3.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
7384.550	36.0	19.1	1.0	181.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	1 Mbps, High Ch. 2462 MHz, EUT Vert
12061.140	40.4	-6.3	1.7	212.0	3.0	0.0	Vert	AV	0.0	34.1	54.0	-19.9	1 Mbps, Low Ch. 2412 MHz, EUT Vert
12310.910	36.7	-3.6	1.0	341.0	3.0	0.0	Horz	AV	0.0	33.1	54.0	-20.9	1 Mbps, High Ch. 2462 MHz, EUT Horz
12061.080	38.8	-6.3	1.0	326.0	3.0	0.0	Horz	AV	0.0	32.5	54.0	-21.5	1 Mbps, Low Ch. 2412 MHz, EUT Horz
12185.900	37.4	-4.9	1.7	209.0	3.0	0.0	Vert	AV	0.0	32.5	54.0	-21.5	1 Mbps, Mid Ch. 2437 MHz, EUT Vert

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
12186.030	37.2	-4.9	1.0	202.0	3.0	0.0	Horz	AV	0.0	32.3	54.0	-21.7	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
2483.737	50.3	1.8	1.0	66.0	3.0	0.0	Horz	PK	0.0	52.1	74.0	-21.9	6 Mbps, High Ch. 2462 MHz, EUT Horz
2483.527	50.1	1.8	1.0	253.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	MSC7, High Ch. 2462 MHz, EUT Horz
12309.310	35.3	-3.6	1.0	252.0	3.0	0.0	Vert	AV	0.0	31.7	54.0	-22.3	1 Mbps, High Ch. 2462 MHz, EUT Vert
2483.503	28.7	1.8	1.0	66.0	3.0	0.0	Horz	AV	0.0	30.5	54.0	-23.5	6 Mbps, High Ch. 2462 MHz, EUT Horz
2483.500	28.7	1.8	1.0	253.0	3.0	0.0	Horz	AV	0.0	30.5	54.0	-23.5	MSC7, High Ch. 2462 MHz, EUT Horz
2483.670	48.1	1.8	1.7	286.0	3.0	0.0	Horz	PK	0.0	49.9	74.0	-24.1	6 Mbps, High Ch. 2462 MHz, EUT On Side
2483.570	48.0	1.8	1.1	43.0	3.0	0.0	Vert	PK	0.0	49.8	74.0	-24.2	6 Mbps, High Ch. 2462 MHz, EUT On Side
2483.523	48.0	1.8	1.0	295.0	3.0	0.0	Vert	PK	0.0	49.8	74.0	-24.2	6 Mbps, High Ch. 2462 MHz, EUT Vert
2483.500	28.0	1.8	1.7	286.0	3.0	0.0	Horz	AV	0.0	29.8	54.0	-24.2	6 Mbps, High Ch. 2462 MHz, EUT On Side
4823.992	39.1	10.5	1.7	107.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	1 Mbps, Low Ch. 2412 MHz, EUT Vert
2388.847	48.0	1.5	1.0	271.0	3.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	6 Mbps, Low Ch. 2412 MHz, EUT Horz
4924.033	38.4	10.8	2.3	233.0	3.0	0.0	Vert	PK	0.0	49.2	74.0	-24.8	1 Mbps, High Ch. 2462 MHz, EUT Vert
2483.500	27.3	1.8	1.1	43.0	3.0	0.0	Vert	AV	0.0	29.1	54.0	-24.9	6 Mbps, High Ch. 2462 MHz, EUT On Side
4923.733	38.3	10.8	1.9	76.0	3.0	0.0	Horz	PK	0.0	49.1	74.0	-24.9	1 Mbps, High Ch. 2462 MHz, EUT Horz
2483.500	27.0	1.8	1.0	295.0	3.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	6 Mbps, High Ch. 2462 MHz, EUT Vert
2483.500	26.9	1.8	1.0	122.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	6 Mbps, High Ch. 2462 MHz, EUT Vert
4924.158	37.9	10.8	1.6	175.0	3.0	0.0	Vert	PK	0.0	48.7	74.0	-25.3	1 Mbps, High Ch. 2462 MHz, EUT On Side
4873.767	38.0	10.6	1.9	32.0	3.0	0.0	Vert	PK	0.0	48.6	74.0	-25.4	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
2389.993	26.8	1.5	1.0	271.0	3.0	0.0	Horz	AV	0.0	28.3	54.0	-25.7	6 Mbps, Low Ch. 2412 MHz, EUT Horz
4923.850	37.5	10.8	1.0	316.0	3.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	1 Mbps, High Ch. 2462 MHz, EUT Vert
2483.560	26.4	1.8	1.4	238.0	3.0	0.0	Horz	AV	0.0	28.2	54.0	-25.8	54 Mbps, High Ch. 2462 MHz, EUT Horz
4924.083	37.4	10.8	1.6	176.0	3.0	0.0	Horz	PK	0.0	48.2	74.0	-25.8	1 Mbps, High Ch. 2462 MHz, EUT On Side
4824.333	37.6	10.5	1.6	39.0	3.0	0.0	Horz	PK	0.0	48.1	74.0	-25.9	1 Mbps, Low Ch. 2412 MHz, EUT Horz
4924.108	37.3	10.8	1.6	155.0	3.0	0.0	Vert	PK	0.0	48.1	74.0	-25.9	1 Mbps, High Ch. 2462 MHz, EUT Horz
4926.242	37.2	10.8	2.5	11.0	3.0	0.0	Vert	PK	0.0	48.0	74.0	-26.0	MCS0, High Ch. 2462 MHz, EUT Vert
4924.075	37.2	10.8	1.5	151.0	3.0	0.0	Horz	PK	0.0	48.0	74.0	-26.0	11 Mbps, High Ch. 2462 MHz, EUT Horz
2483.590	46.1	1.8	1.0	122.0	3.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1	6 Mbps, High Ch. 2462 MHz, EUT Vert
4873.867	37.0	10.6	1.2	24.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
4923.983	36.8	10.8	1.0	112.0	3.0	0.0	Vert	PK	0.0	47.6	74.0	-26.4	11 Mbps, High Ch. 2462 MHz, EUT Vert
4925.567	36.3	10.8	1.0	81.0	3.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	54 Mbps, High Ch. 2462 MHz, EUT Horz
4925.242	36.1	10.8	2.3	267.0	3.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	36 Mbps, High Ch. 2462 MHz, EUT Vert
4925.792	36.0	10.8	1.8	242.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	6 Mbps, High Ch. 2462 MHz, EUT Vert
4922.567	36.0	10.8	1.0	52.0	3.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	6 Mbps, High Ch. 2462 MHz, EUT Horz
4923.833	35.9	10.8	1.8	150.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	MCS7, High Ch. 2462 MHz, EUT Horz
4923.675	35.9	10.8	2.1	281.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	MCS7, High Ch. 2462 MHz, EUT Vert
4921.933	35.8	10.8	1.0	26.0	3.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	36 Mbps, High Ch. 2462 MHz, EUT Horz
4921.900	35.7	10.8	1.0	152.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	54 Mbps, High Ch. 2462 MHz, EUT Vert
4921.758	35.4	10.8	1.0	148.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	MCS0, High Ch. 2462 MHz, EUT Horz
2388.000	24.6	1.5	1.4	234.0	3.0	0.0	Horz	AV	0.0	26.1	54.0	-27.9	1 Mbps, Low Ch. 2412 MHz, EUT Horz
2485.343	24.0	1.9	1.0	101.0	3.0	0.0	Horz	AV	0.0	25.9	54.0	-28.1	11 Mbps, High Ch. 2462 MHz, EUT Vert
2389.997	24.1	1.5	1.0	107.0	3.0	0.0	Vert	AV	0.0	25.6	54.0	-28.4	6 Mbps, Low Ch. 2412 MHz, EUT Horz
2485.390	23.7	1.9	1.0	21.0	3.0	0.0	Horz	AV	0.0	25.6	54.0	-28.4	1 Mbps, High Ch. 2462 MHz, EUT Horz
2483.503	23.6	1.8	1.0	323.0	3.0	0.0	Vert	AV	0.0	25.4	54.0	-28.6	6 Mbps, High Ch. 2462 MHz, EUT Horz
2485.363	23.5	1.9	1.0	315.0	3.0	0.0	Horz	AV	0.0	25.4	54.0	-28.6	MSC0, High Ch. 2462 MHz, EUT Horz
2484.487	23.5	1.9	1.0	85.0	3.0	0.0	Horz	AV	0.0	25.4	54.0	-28.6	36 Mbps, High Ch. 2462 MHz, EUT Horz
2483.947	43.1	1.8	1.4	238.0	3.0	0.0	Horz	PK	0.0	44.9	74.0	-29.1	54 Mbps, High Ch. 2462 MHz, EUT Horz
12059.750	47.9	-6.3	1.7	212.0	3.0	0.0	Vert	PK	0.0	41.6	74.0	-32.4	1 Mbps, Low Ch. 2412 MHz, EUT Vert
12061.710	47.7	-6.3	1.0	326.0	3.0	0.0	Horz	PK	0.0	41.4	74.0	-32.6	1 Mbps, Low Ch. 2412 MHz, EUT Horz
12308.170	44.6	-3.6	1.0	341.0	3.0	0.0	Horz	PK	0.0	41.0	74.0	-33.0	1 Mbps, High Ch. 2462 MHz, EUT Horz
12309.600	44.5	-3.6	1.0	252.0	3.0	0.0	Vert	PK	0.0	40.9	74.0	-33.1	1 Mbps, High Ch. 2462 MHz, EUT Vert
12185.020	45.8	-4.9	1.7	209.0	3.0	0.0	Vert	PK	0.0	40.9	74.0	-33.1	1 Mbps, Mid Ch. 2437 MHz, EUT Vert
2389.743	39.1	1.5	1.0	107.0	3.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	6 Mbps, Low Ch. 2412 MHz, EUT Horz
12186.930	45.2	-4.9	1.0	202.0	3.0	0.0	Horz	PK	0.0	40.3	74.0	-33.7	1 Mbps, Mid Ch. 2437 MHz, EUT Horz
2484.723	38.2	1.9	1.0	101.0	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	11 Mbps, High Ch. 2462 MHz, EUT Vert
2388.073	38.0	1.5	1.4	234.0	3.0	0.0	Horz	PK	0.0	39.5	74.0	-34.5	1 Mbps, Low Ch. 2412 MHz, EUT Horz
2484.033	37.3	1.8	1.0	323.0	3.0	0.0	Vert	PK	0.0	39.1	74.0	-34.9	6 Mbps, High Ch. 2462 MHz, EUT Horz
2485.233	36.8	1.9	1.0	315.0	3.0	0.0	Horz	PK	0.0	38.7	74.0	-35.3	MSC0, High Ch. 2462 MHz, EUT Horz
2485.097	36.7	1.9	1.0	21.0	3.0	0.0	Horz	PK	0.0	38.6	74.0	-35.4	1 Mbps, High Ch. 2462 MHz, EUT Horz
2484.730	36.6	1.9	1.0	85.0	3.0	0.0	Horz	PK	0.0	38.5	74.0	-35.5	36 Mbps, High Ch. 2462 MHz, EUT Horz



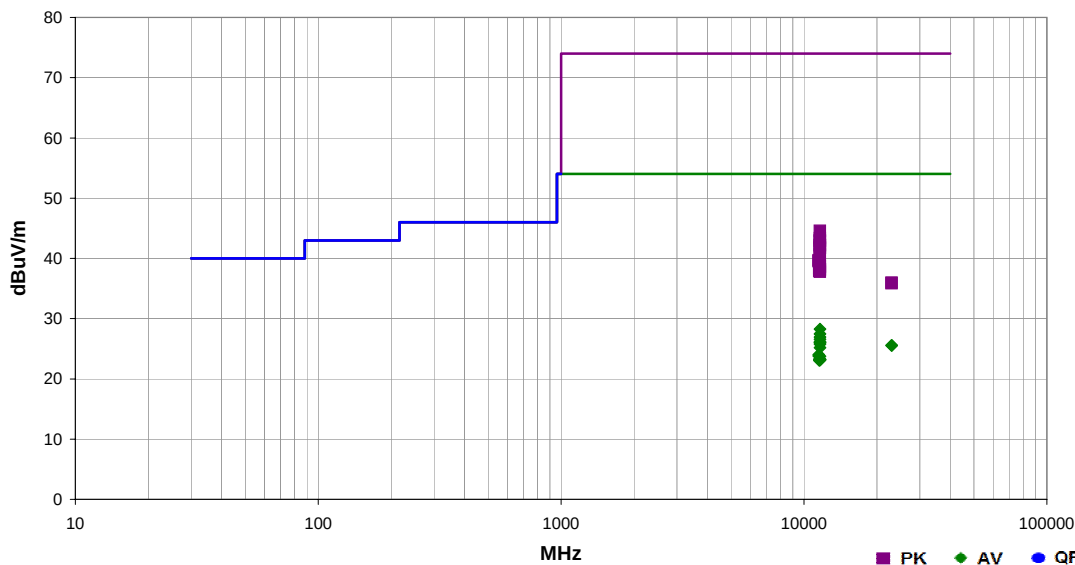
Spurious Radiated Emissions - 5.8 GHz

PSA-ESCI 2012.12.14
EmiR5 2013.08.26

Work Order:	INSD0001	Date:	11/04/13	
Project:	None	Temperature:	22 °C	
Job Site:	EV01	Humidity:	37.7% RH	
Serial Number:	99	Barometric Pres.:	1021 mbar	
EUT:	The EGG			
Configuration:	1			
Customer:	Intel Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	On, Tx (The radio was operated with the customer's test software for the modes tested)			
Deviations:	None			
Comments:	Please reference the data comments for EUT orientation, data rate and frequency			

Test Specifications	Test Method
FCC 15.247:2013	ANSI C63.10:2009

Run #	86	Test Distance (m)	3	Antenna Height(s)	1-4m	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
11651.130	35.2	-6.9	1.9	154.0	3.0	0.0	Horz	AV	0.0	28.3	54.0	-25.7	6Mbps Ch.165, 5825 MHz, EUT On Side
11650.100	34.4	-6.9	1.0	29.0	3.0	0.0	Horz	AV	0.0	27.5	54.0	-26.5	6Mbps Ch.165, 5825 MHz, EUT Horz
11650.230	33.9	-6.9	1.7	336.0	3.0	0.0	Horz	AV	0.0	27.0	54.0	-27.0	6Mbps Ch.165, 5825 MHz, EUT Vert
11651.210	33.5	-6.9	1.1	163.0	3.0	0.0	Vert	AV	0.0	26.6	54.0	-27.4	MCS0 Ch.165, 5825 MHz, EUT On Side
11649.990	33.1	-6.9	1.1	163.0	3.0	0.0	Vert	AV	0.0	26.2	54.0	-27.8	36Mbps Ch.165, 5825 MHz, EUT On Side
11650.130	33.0	-6.9	1.0	157.0	3.0	0.0	Vert	AV	0.0	26.1	54.0	-27.9	6Mbps Ch.165, 5825 MHz, EUT Vert
11650.910	32.9	-6.9	1.1	163.0	3.0	0.0	Vert	AV	0.0	26.0	54.0	-28.0	54Mbps Ch.165, 5825 MHz, EUT On Side
11651.230	32.7	-6.9	1.1	163.0	3.0	0.0	Vert	AV	0.0	25.8	54.0	-28.2	MCS7 Ch.165, 5825 MHz, EUT On Side
22980.930	25.2	0.4	0.0	44.0	3.0	0.0	Vert	AV	0.0	25.6	54.0	-28.4	6Mbps Ch.149, 5745 MHz, EUT On Side
22981.380	25.2	0.4	1.1	159.0	3.0	0.0	Horz	AV	0.0	25.6	54.0	-28.4	6Mbps Ch.149, 5745 MHz, EUT On Side
11651.510	32.1	-6.9	1.0	162.0	3.0	0.0	Vert	AV	0.0	25.2	54.0	-28.8	6Mbps Ch.165, 5825 MHz, EUT On Side
11650.960	51.5	-6.9	1.9	154.0	3.0	0.0	Horz	PK	0.0	44.6	74.0	-29.4	6Mbps Ch.165, 5825 MHz, EUT On Side
11487.650	31.0	-7.0	1.0	35.0	3.0	0.0	Horz	AV	0.0	24.0	54.0	-30.0	6Mbps Ch.149, 5745 MHz, EUT On Side
11487.660	30.8	-7.0	2.8	104.0	3.0	0.0	Vert	AV	0.0	23.8	54.0	-30.2	6Mbps Ch.149, 5745 MHz, EUT On Side
11652.050	30.7	-6.9	1.0	50.0	3.0	0.0	Vert	AV	0.0	23.8	54.0	-30.2	6Mbps Ch.165, 5825 MHz, EUT Horz
11650.160	50.3	-6.9	1.0	29.0	3.0	0.0	Horz	PK	0.0	43.4	74.0	-30.6	6Mbps Ch.165, 5825 MHz, EUT Horz
11648.650	30.2	-6.9	1.0	54.0	3.0	0.0	Horz	AV	0.0	23.3	54.0	-30.7	54Mbps Ch.165, 5825 MHz, EUT On Side
11567.960	30.2	-7.0	1.0	35.0	3.0	0.0	Horz	AV	0.0	23.3	54.0	-30.8	6Mbps Ch.157, 5785 MHz, EUT Horz
11648.930	30.1	-6.9	1.0	54.0	3.0	0.0	Horz	AV	0.0	23.2	54.0	-30.8	MCS0 Ch.165, 5825 MHz, EUT On Side
11648.700	30.1	-6.9	1.0	54.0	3.0	0.0	Horz	AV	0.0	23.2	54.0	-30.8	36Mbps Ch.165, 5825 MHz, EUT On Side
11647.690	30.1	-6.9	1.0	54.0	3.0	0.0	Horz	AV	0.0	23.2	54.0	-30.8	MCS0 Ch.165, 5825 MHz, EUT On Side
11568.170	30.0	-7.0	2.8	104.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-31.0	6Mbps Ch.157, 5785 MHz, EUT On Side
11651.470	49.9	-6.9	1.7	336.0	3.0	0.0	Horz	PK	0.0	43.0	74.0	-31.0	6Mbps Ch.165, 5825 MHz, EUT Vert
11650.730	49.8	-6.9	1.1	163.0	3.0	0.0	Vert	PK	0.0	42.9	74.0	-31.1	MCS0 Ch.165, 5825 MHz, EUT On Side
11649.920	49.1	-6.9	1.1	163.0	3.0	0.0	Vert	PK	0.0	42.2	74.0	-31.8	MCS7 Ch.165, 5825 MHz, EUT On Side
11647.710	49.1	-6.9	1.1	163.0	3.0	0.0	Vert	PK	0.0	42.2	74.0	-31.8	54Mbps Ch.165, 5825 MHz, EUT On Side
11651.380	48.7	-6.9	1.1	163.0	3.0	0.0	Vert	PK	0.0	41.8	74.0	-32.2	36Mbps Ch.165, 5825 MHz, EUT On Side
11648.730	48.7	-6.9	1.0	157.0	3.0	0.0	Vert	PK	0.0	41.8	74.0	-32.2	6Mbps Ch.165, 5825 MHz, EUT Vert
11652.430	47.6	-6.9	1.0	162.0	3.0	0.0	Vert	PK	0.0	40.7	74.0	-33.3	6Mbps Ch.165, 5825 MHz, EUT On Side
11490.020	46.7	-7.0	1.0	35.0	3.0	0.0	Horz	PK	0.0	39.7	74.0	-34.3	6Mbps Ch.149, 5745 MHz, EUT On Side
11489.400	46.5	-7.0	2.8	104.0	3.0	0.0	Vert	PK	0.0	39.5	74.0	-34.5	6Mbps Ch.149, 5745 MHz, EUT On Side
11652.340	45.6	-6.9	1.0	50.0	3.0	0.0	Vert	PK	0.0	38.7	74.0	-35.3	6Mbps Ch.165, 5825 MHz, EUT Horz
11648.080	45.5	-6.9	1.0	54.0	3.0	0.0	Horz	PK	0.0	38.6	74.0	-35.4	MCS7 Ch.165, 5825 MHz, EUT On Side
11570.600	45.3	-7.0	1.0	35.0	3.0	0.0	Horz	PK	0.0	38.4	74.0	-35.7	6Mbps Ch.157, 5785 MHz, EUT On Side

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
11651.430	45.1	-6.9	1.0	54.0	3.0	0.0	Horz	PK	0.0	38.2	74.0	-35.8	MCS0 Ch.165, 5825 MHz, EUT On Side
11651.330	45.1	-6.9	1.0	54.0	3.0	0.0	Horz	PK	0.0	38.2	74.0	-35.8	54Mbps Ch.165, 5825 MHz, EUT On Side
11568.740	44.9	-7.0	2.8	104.0	3.0	0.0	Vert	PK	0.0	38.0	74.0	-36.1	6Mbps Ch.157, 5785 MHz, EUT On Side
11652.400	44.7	-6.9	1.0	54.0	3.0	0.0	Horz	PK	0.0	37.8	74.0	-36.2	36Mbps Ch.165, 5825 MHz, EUT On Side
22978.840	35.6	0.4	1.1	159.0	3.0	0.0	Horz	PK	0.0	36.0	74.0	-38.0	6Mbps Ch.149, 5745 MHz, EUT On Side
22979.220	35.5	0.4	0.0	44.0	3.0	0.0	Vert	PK	0.0	35.9	74.0	-38.1	6Mbps Ch.149, 5745 MHz, EUT On Side

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

MODES OF OPERATION

On, Tx CH 165, 5825 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)
On, Tx CH 157, 5785 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)
On, Tx CH 149, 5745 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)
On, Tx CH 11, 2462 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)
On, Tx CH 6, 2437 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)
On, Tx CH 1, 2412 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

INSD0001 - 1

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	1/24/2013	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HHD	2/1/2012	24 mo
Attenuator	Fairview Microwave	SA6B10W-20	RKA	10/24/2013	12 mo
EV07 Cables	N/A	Conducted Cables	EVG	4/25/2013	12 mo
LISN	Solar	9252-50-R-24-BNC	LIP	4/8/2013	12 mo

MEASUREMENT BANDWIDTHS

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

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

TEST DESCRIPTION

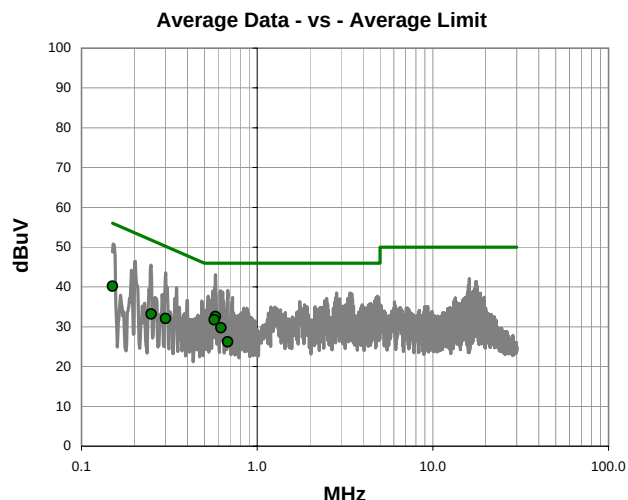
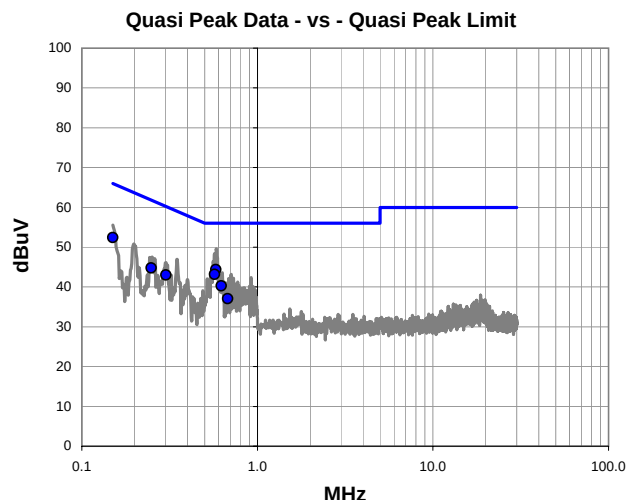
The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest,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

Power Setting by Band:

5180MHz – 5240MHz, Power setting of 5000
5260MHz – 5320MHz, Power setting of 14000
5500MHz – 5700MHz, Power setting of 14000

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 1, 2412 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	3	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

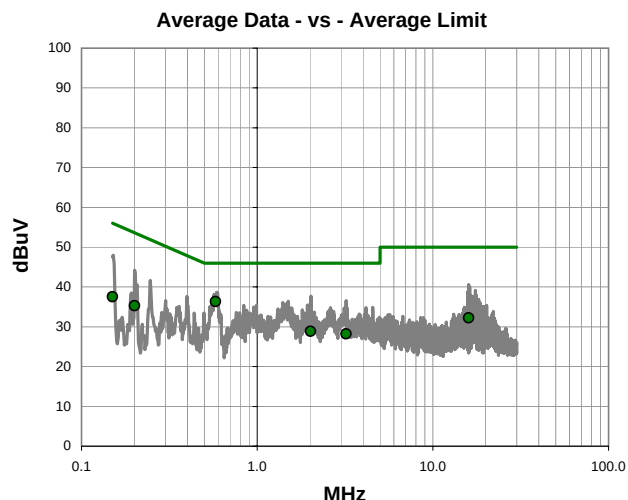
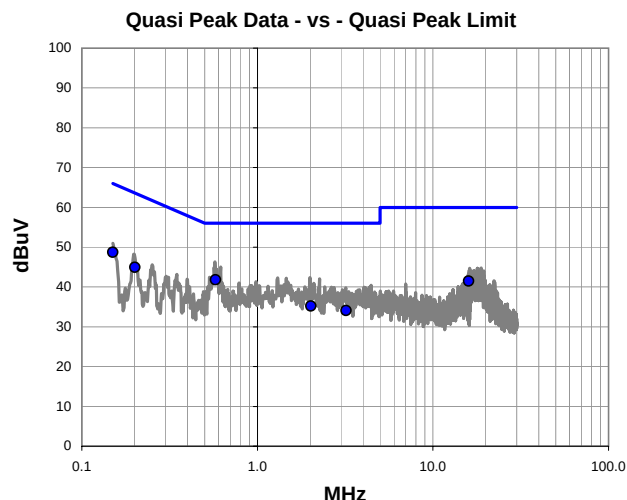
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	24.1	20.3	44.4	56.0	-11.6
0.570	22.9	20.3	43.2	56.0	-12.8
0.150	32.0	20.4	52.4	66.0	-13.6
0.622	20.0	20.3	40.3	56.0	-15.7
0.249	24.5	20.3	44.8	61.8	-17.0
0.301	22.7	20.3	43.0	60.2	-17.2
0.679	16.8	20.3	37.1	56.0	-18.9

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	12.3	20.3	32.6	46.0	-13.4
0.570	11.5	20.3	31.8	46.0	-14.2
0.150	19.8	20.4	40.2	56.0	-15.8
0.622	9.5	20.3	29.8	46.0	-16.2
0.301	11.8	20.3	32.1	50.2	-18.1
0.249	12.9	20.3	33.2	51.8	-18.6
0.679	5.9	20.3	26.2	46.0	-19.8

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
Tested by: Brandon Hobbs							
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 1, 2412 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	4	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

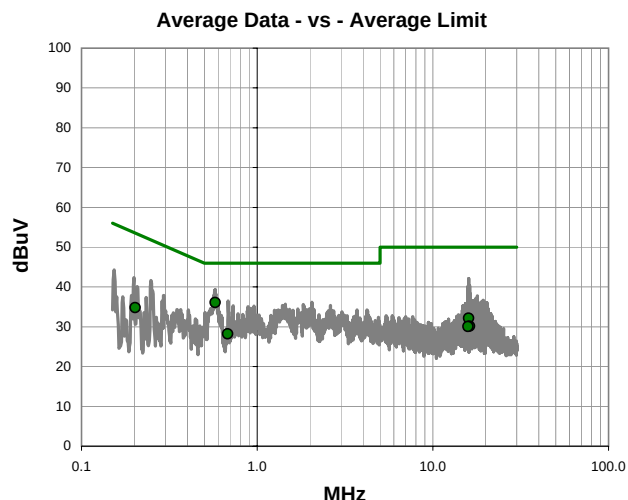
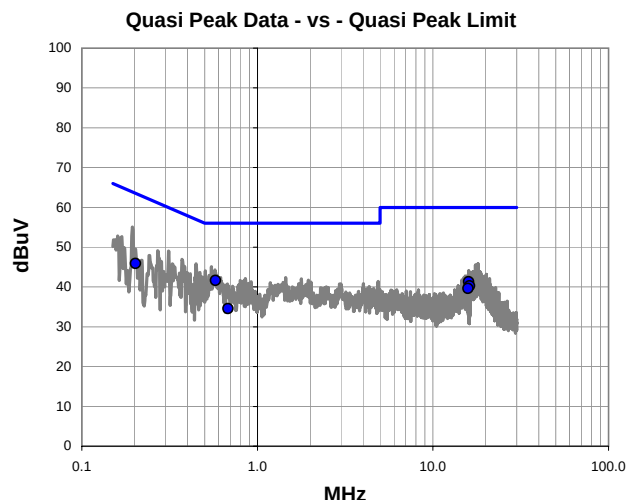
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.579	21.5	20.3	41.8	56.0	-14.2
0.150	28.3	20.4	48.7	66.0	-17.3
15.992	20.2	21.2	41.4	60.0	-18.6
0.201	24.6	20.3	44.9	63.6	-18.6
2.016	14.8	20.4	35.2	56.0	-20.8
3.208	13.6	20.5	34.1	56.0	-21.9

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.579	16.1	20.3	36.4	46.0	-9.6
2.016	8.4	20.4	28.8	46.0	-17.2
15.992	11.0	21.2	32.2	50.0	-17.8
3.208	7.7	20.5	28.2	46.0	-17.8
0.201	15.0	20.3	35.3	53.6	-18.2
0.150	17.1	20.4	37.5	56.0	-18.5

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 6, 2437 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	5	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

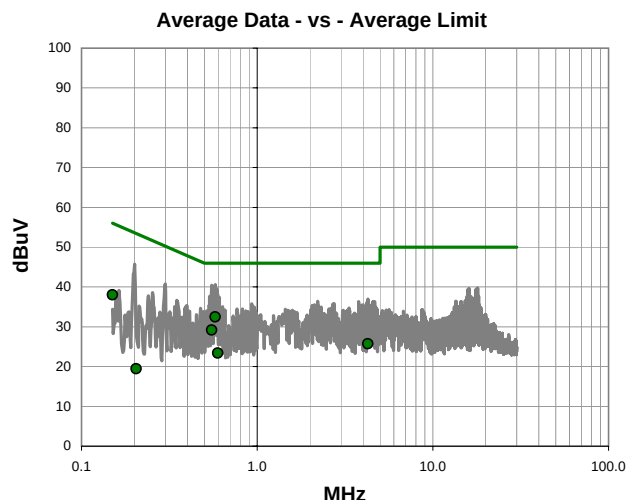
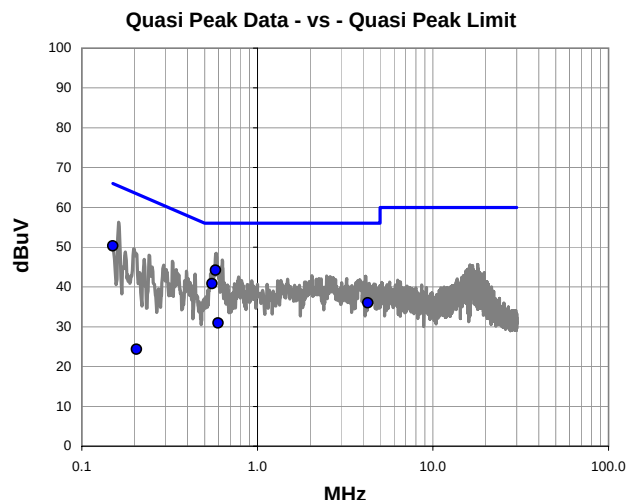
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	21.4	20.3	41.7	56.0	-14.3
0.202	25.6	20.3	45.9	63.5	-17.6
15.994	20.1	21.2	41.3	60.0	-18.7
16.194	19.0	21.3	40.3	60.0	-19.7
15.840	18.4	21.2	39.6	60.0	-20.4
0.680	14.3	20.3	34.6	56.0	-21.4

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	15.8	20.3	36.1	46.0	-9.9
0.680	7.9	20.3	28.2	46.0	-17.8
15.994	10.9	21.2	32.1	50.0	-17.9
0.202	14.5	20.3	34.8	53.5	-18.7
16.194	8.9	21.3	30.2	50.0	-19.8
15.840	8.8	21.2	30.0	50.0	-20.0

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 6, 2437 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	6	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

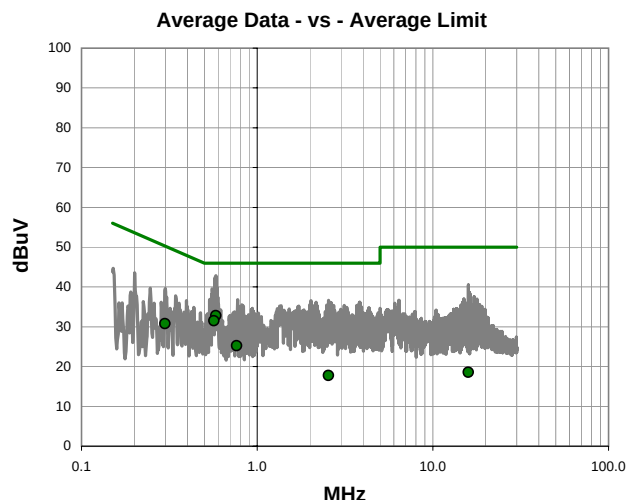
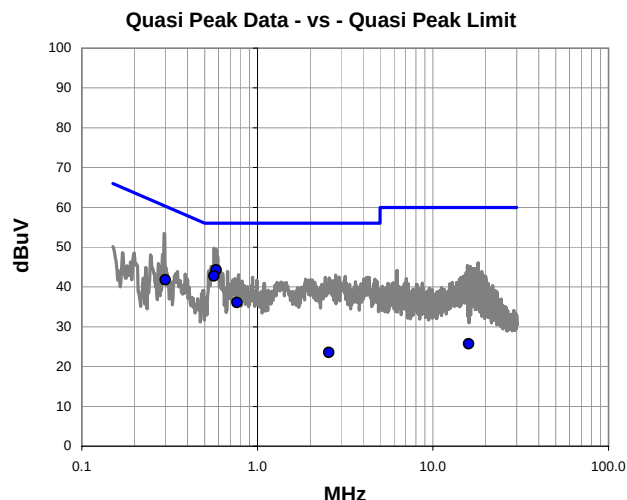
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	23.9	20.3	44.2	56.0	-11.8
0.551	20.6	20.3	40.9	56.0	-15.1
0.150	29.9	20.4	50.3	66.0	-15.7
4.268	15.4	20.6	36.0	56.0	-20.0
0.597	10.7	20.3	31.0	56.0	-25.0
0.205	4.0	20.3	24.3	63.4	-39.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	12.2	20.3	32.5	46.0	-13.5
0.551	8.9	20.3	29.2	46.0	-16.8
0.150	17.6	20.4	38.0	56.0	-18.0
4.268	5.1	20.6	25.7	46.0	-20.3
0.597	3.1	20.3	23.4	46.0	-22.6
0.205	-0.9	20.3	19.4	53.4	-34.0

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 11, 2462 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	7	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

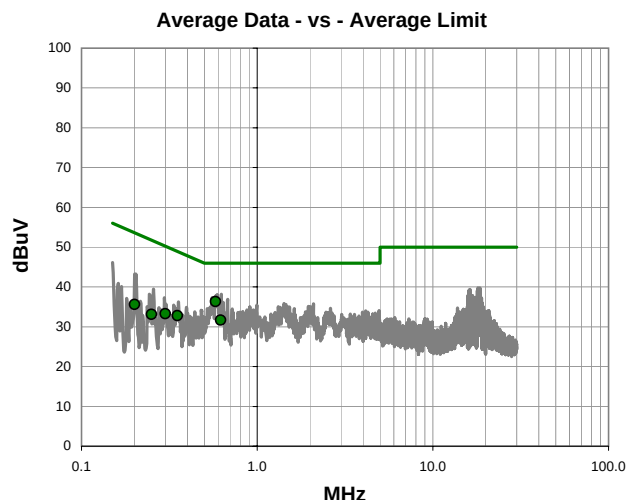
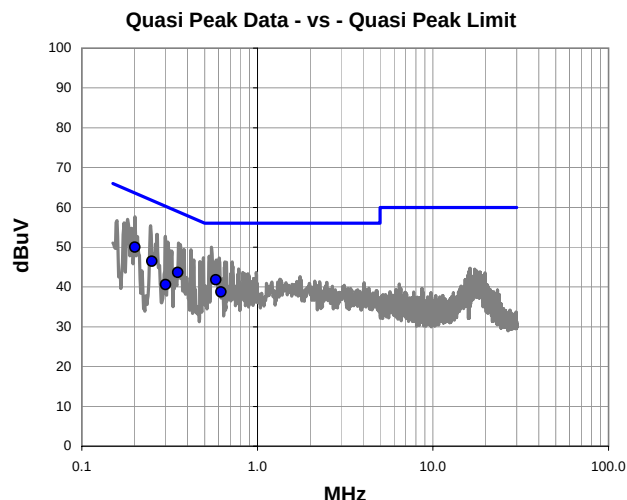
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.582	24.0	20.3	44.3	56.0	-11.7
0.567	22.5	20.3	42.8	56.0	-13.2
0.299	21.5	20.3	41.8	60.3	-18.5
0.766	15.8	20.3	36.1	56.0	-19.9
2.552	3.1	20.5	23.6	56.0	-32.4
15.948	4.5	21.2	25.7	60.0	-34.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.582	12.5	20.3	32.8	46.0	-13.2
0.567	11.2	20.3	31.5	46.0	-14.5
0.299	10.5	20.3	30.8	50.3	-19.5
0.766	4.9	20.3	25.2	46.0	-20.8
2.552	-2.7	20.5	17.8	46.0	-28.2
15.948	-2.7	21.2	18.5	50.0	-31.5

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 11, 2462 MHz, 1 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	8	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

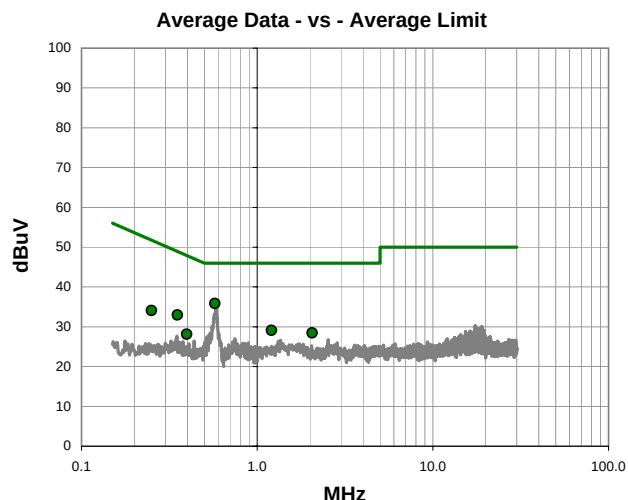
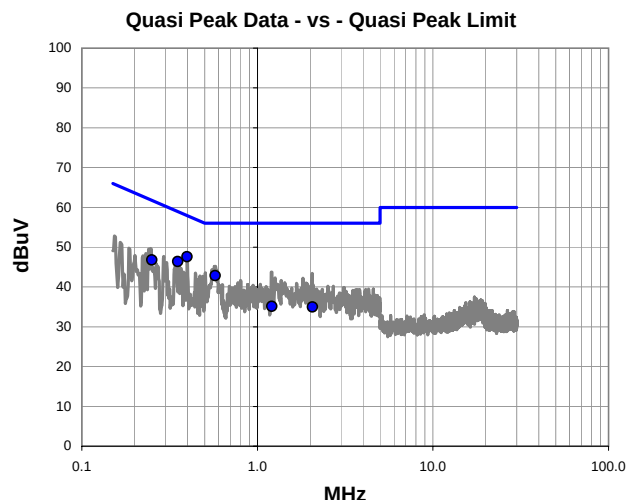
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.201	29.7	20.3	50.0	63.6	-13.5
0.580	21.5	20.3	41.8	56.0	-14.2
0.251	26.2	20.3	46.5	61.7	-15.2
0.352	23.4	20.3	43.7	58.9	-15.3
0.620	18.5	20.3	38.8	56.0	-17.2
0.300	20.3	20.3	40.6	60.2	-19.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	16.1	20.3	36.4	46.0	-9.6
0.620	11.4	20.3	31.7	46.0	-14.3
0.352	12.5	20.3	32.8	48.9	-16.2
0.300	13.0	20.3	33.3	50.2	-17.0
0.201	15.3	20.3	35.6	53.6	-17.9
0.251	12.8	20.3	33.1	51.7	-18.6

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 149, 5745 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	9	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

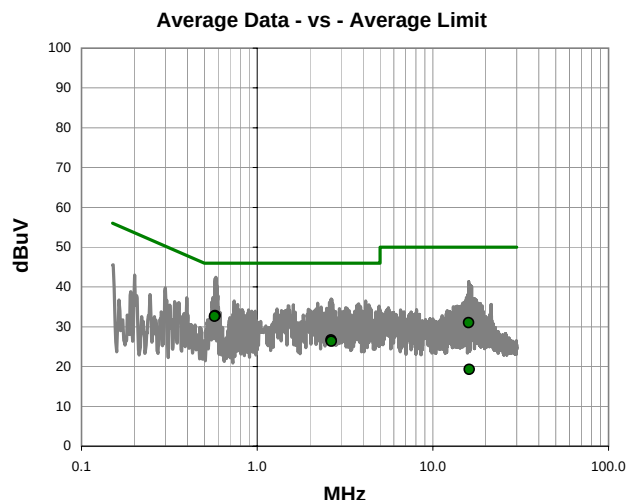
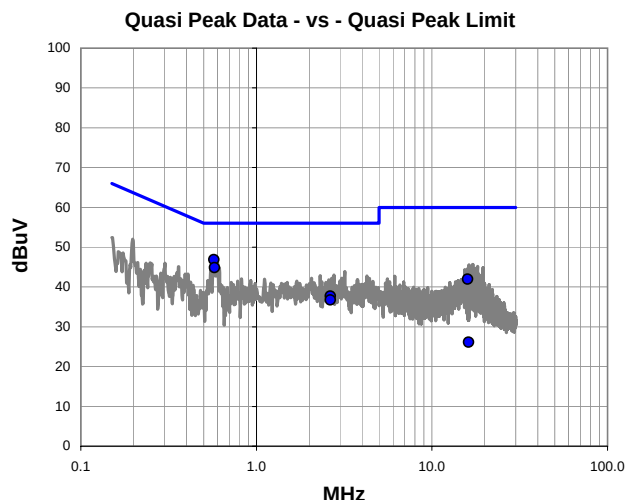
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.398	27.3	20.3	47.6	57.9	-10.3
0.352	26.1	20.3	46.4	58.9	-12.6
0.576	22.6	20.3	42.9	56.0	-13.1
0.251	26.5	20.3	46.8	61.7	-14.9
1.208	14.8	20.4	35.2	56.0	-20.8
2.060	14.5	20.4	34.9	56.0	-21.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.576	15.6	20.3	35.9	46.0	-10.1
0.352	12.7	20.3	33.0	48.9	-16.0
1.208	8.7	20.4	29.1	46.0	-16.9
2.060	8.0	20.4	28.4	46.0	-17.6
0.251	13.8	20.3	34.1	51.7	-17.6
0.398	7.9	20.3	28.2	47.9	-19.7

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 149, 5745 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	10	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

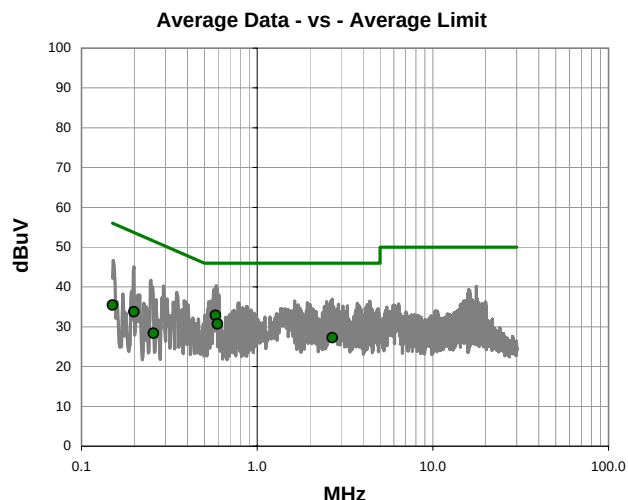
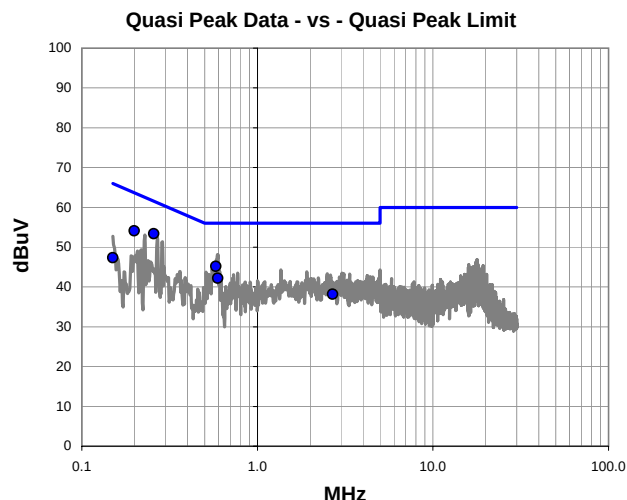
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.573	26.6	20.3	46.9	56.0	-9.1
0.578	24.6	20.3	44.9	56.0	-11.1
15.990	20.7	21.2	41.9	60.0	-18.1
2.636	17.2	20.5	37.7	56.0	-18.3
2.644	16.3	20.5	36.8	56.0	-19.2
16.152	4.9	21.3	26.2	60.0	-33.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	12.5	20.3	32.8	46.0	-13.2
0.573	12.4	20.3	32.7	46.0	-13.3
15.990	9.8	21.2	31.0	50.0	-19.0
2.636	6.2	20.5	26.7	46.0	-19.3
2.644	5.9	20.5	26.4	46.0	-19.6
16.152	-2.0	21.3	19.3	50.0	-30.7

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 157, 5785 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	11	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.257	33.1	20.3	53.4	61.5	-8.1
0.199	33.8	20.3	54.1	63.7	-9.5
0.580	24.9	20.3	45.2	56.0	-10.8
0.594	21.9	20.3	42.2	56.0	-13.8
2.684	17.7	20.5	38.2	56.0	-17.8
0.150	26.9	20.4	47.3	66.0	-18.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	12.6	20.3	32.9	46.0	-13.1
0.594	10.4	20.3	30.7	46.0	-15.3
2.684	6.8	20.5	27.3	46.0	-18.7
0.199	13.4	20.3	33.7	53.7	-19.9
0.150	15.0	20.4	35.4	56.0	-20.6
0.257	8.1	20.3	28.4	51.5	-23.1

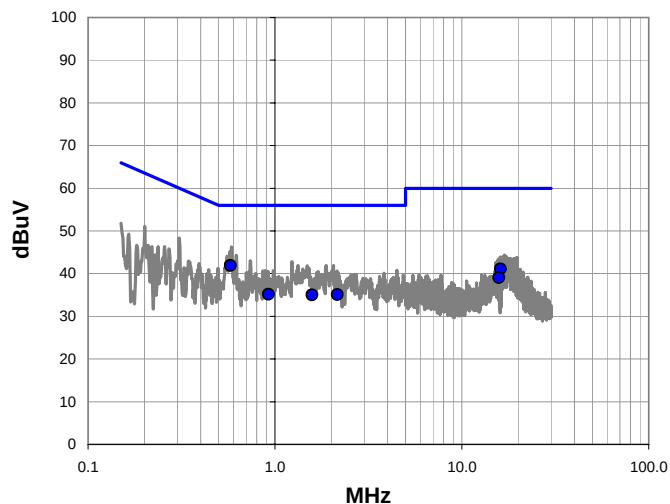
AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13	
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	43% RH	
Serial Number:	99	Barometric Pres.:	1020.3 mbar	
		Tested by:		Brandon Hobbs
EUT:	The EGG			
Configuration:	1			
Customer:	Intel Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	On, Tx CH 157, 5785 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)			
Deviations:	None			
Comments:	The device was running at ≥ 99% duty cycle			

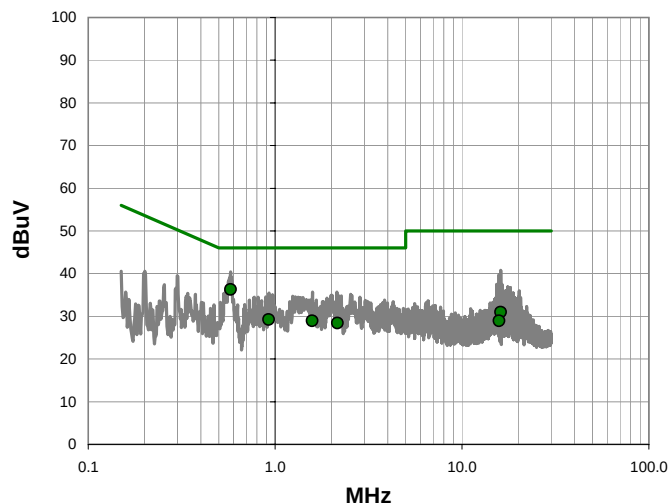
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	12	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

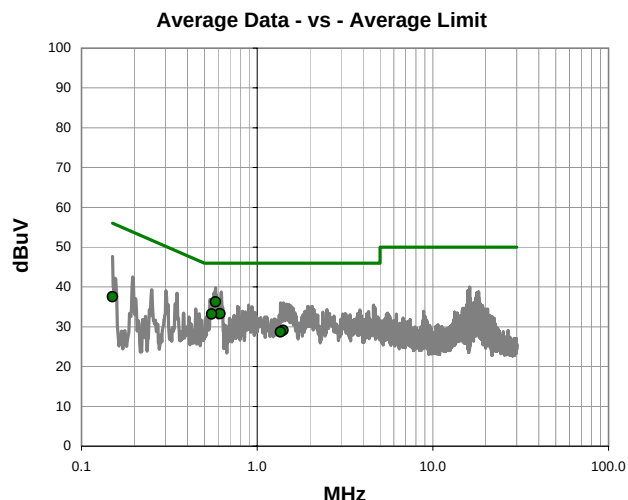
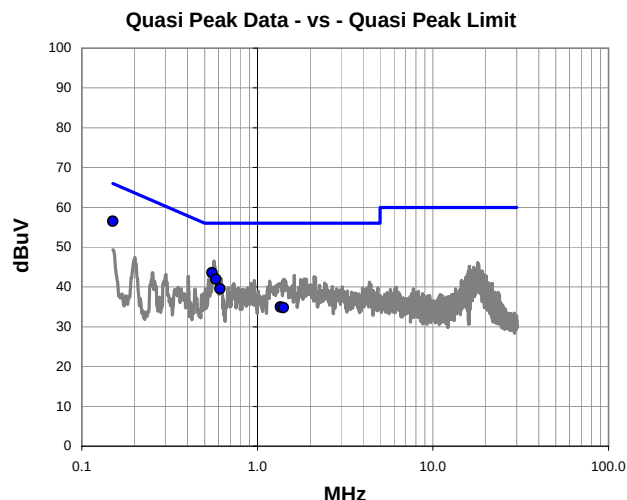
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	21.6	20.3	41.9	56.0	-14.1
16.140	19.8	21.3	41.1	60.0	-18.9
0.923	14.8	20.3	35.1	56.0	-20.9
2.156	14.6	20.4	35.0	56.0	-21.0
15.788	17.8	21.2	39.0	60.0	-21.0
1.580	14.6	20.4	35.0	56.0	-21.0

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	16.0	20.3	36.3	46.0	-9.7
0.923	8.9	20.3	29.2	46.0	-16.8
1.580	8.5	20.4	28.9	46.0	-17.1
2.156	8.0	20.4	28.4	46.0	-17.6
16.140	9.7	21.3	31.0	50.0	-19.0
15.788	7.7	21.2	28.9	50.0	-21.1

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 165, 5825 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	13	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

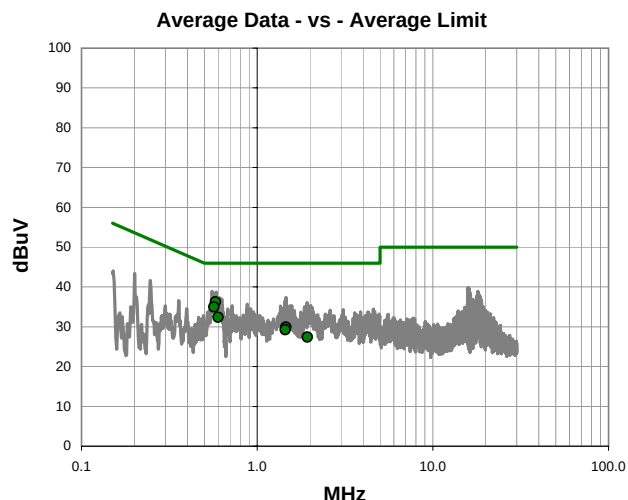
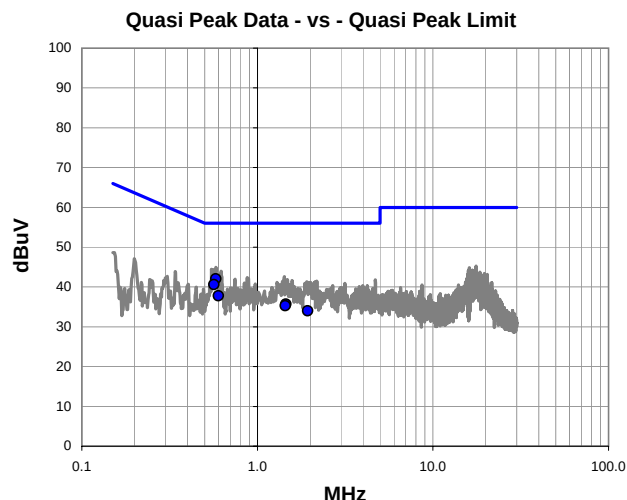
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	36.1	20.4	56.5	66.0	-9.5
0.551	23.3	20.3	43.6	56.0	-12.4
0.580	21.7	20.3	42.0	56.0	-14.0
0.614	19.3	20.3	39.6	56.0	-16.4
1.356	14.6	20.4	35.0	56.0	-21.0
1.404	14.4	20.4	34.8	56.0	-21.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	16.0	20.3	36.3	46.0	-9.7
0.614	13.0	20.3	33.3	46.0	-12.7
0.551	12.9	20.3	33.2	46.0	-12.8
1.404	8.7	20.4	29.1	46.0	-16.9
1.356	8.3	20.4	28.7	46.0	-17.3
0.150	17.1	20.4	37.5	56.0	-18.5

AC Powerline Conducted Emissions

Work Order:	INSD0001	Date:	11/01/13				
Project:	None	Temperature:	22 °C				
Job Site:	EV07	Humidity:	43% RH				
Serial Number:	99	Barometric Pres.:	1020.3 mbar				
EUT:	The EGG						
Configuration:	1						
Customer:	Intel Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	On, Tx CH 165, 5825 MHz, 6 Mbps (The radio was operated with the customer's test software for the modes tested)						
Deviations:	None						
Comments:	The device was running at ≥ 99% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	14	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	21.8	20.3	42.1	56.0	-13.9
0.567	20.3	20.3	40.6	56.0	-15.4
0.600	17.5	20.3	37.8	56.0	-18.2
1.456	15.3	20.4	35.7	56.0	-20.3
1.444	14.9	20.4	35.3	56.0	-20.7
1.932	13.6	20.4	34.0	56.0	-22.0

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	16.0	20.3	36.3	46.0	-9.7
0.567	14.7	20.3	35.0	46.0	-11.0
0.600	12.1	20.3	32.4	46.0	-13.6
1.456	9.5	20.4	29.9	46.0	-16.1
1.444	8.9	20.4	29.3	46.0	-16.7
1.932	7.0	20.4	27.4	46.0	-18.6