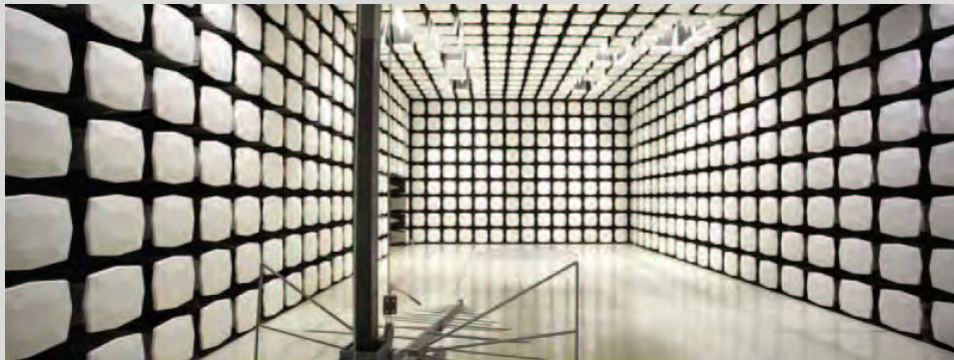




Masimo Corporation
RAD7CA

Report #: MASI0095



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Last Date of Test: April 27, 2012
Masimo Corporation
Model: RAD7CA

Emissions

Test Description	Specification	Test Method	Pass/Fail
Occupied Bandwidth	FCC 15.247:2012	ANSI C63.10:2009	Pass
Output Power	FCC 15.247:2012	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2012	ANSI C63.10:2009	Pass
Spurious Conducted Emissions	FCC 15.247:2012	ANSI C63.10:2009	Pass
Power Spectral Density	FCC 15.247:2012	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.247:2012	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2012	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:

Tim O'Shea, Operations Manager



NVLAP Lab Code: 200676-0

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
41 Tesla Ave.
Irvine, CA 92618

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834B-1).

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 09/01/11

Revision History

Revision Number	Description	Date	Page Number
00	None		

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. The scope includes radio, ITE, and medical standards from around the world. See: <http://www.nwemc.com/accreditations/>

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

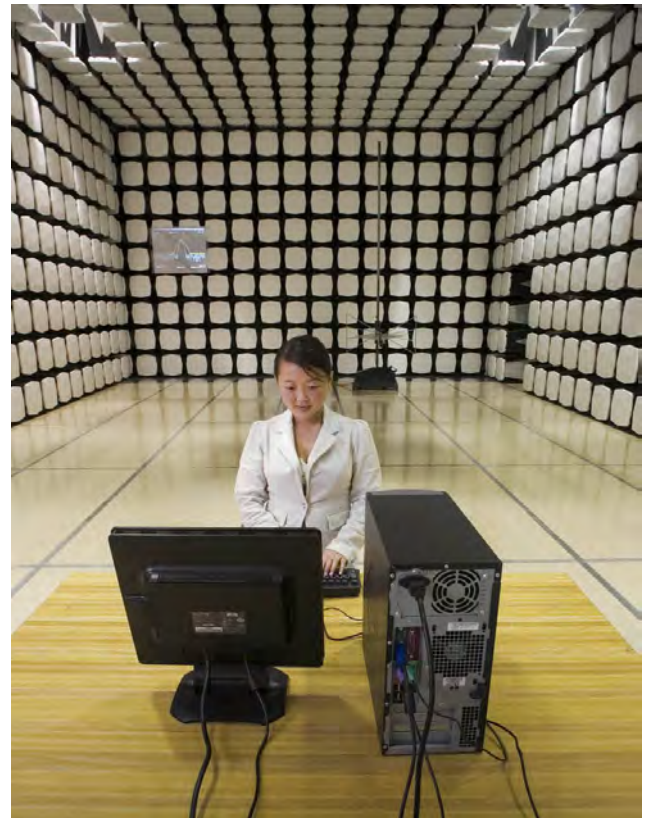
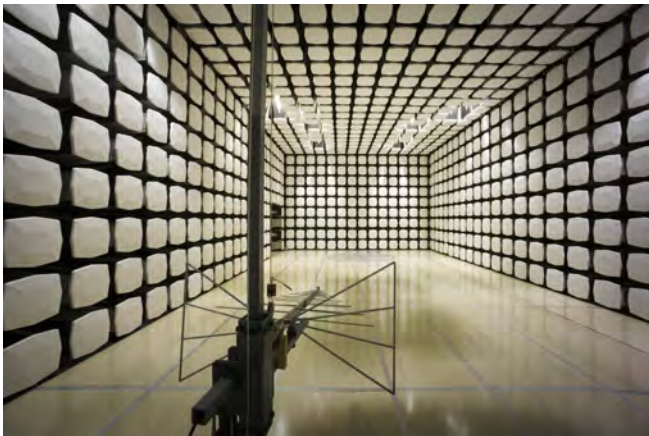
MIC – Recognized by MIC as a CAB for the acceptance of test data.

Russia

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



Oregon Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs SU01-SU07 14128 339 th Ave. SE Sultan, WA 98294 (360) 793-8675
VCCI				
C-1071, R-1025, G-84, C-2687, T-1658, R-2318	R-1943, G-85, C-2766, T-1659, G-548		R-3125, G-86, G-141, C-3464, T-1634	R-871, G-83, C-3265, T-1511
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1





Product Description

Client and Equipment Under Test (EUT) Information

Company Name:	Masimo Corporation
Address:	40 Parker
City, State, Zip:	Irvine, CA 92618
Test Requested By:	Michael Clark
Model:	RAD7CA
First Date of Test:	April 18, 2012
Last Date of Test:	April 27, 2012
Receipt Date of Samples:	April 18, 2012
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
802.11a/b/g radio
Testing Objective:
To demonstrate compliance under FCC 15.247 for operation in the 2.4 and 5.8 GHz bands

Configuration 1 MASI0095

Software/Firmware Running during test					
Description			Version		
Tera Term			4.73		
(Linux) base			E 0.0.1.6		
EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Pulse Co-Oximeter	Masimo Corporation	RAD7CA	34996 Rev C		
Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Remote Laptop	Hewlett Packard	Compaq 6515b	CNU7300W4L		
Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Cable	No	1.8m	No	RAD7CA	AC Mains
USB Cable	No	1.0m	No	RAD7CA	Remote Laptop
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration 2 MASI0095

Software/Firmware Running during test					
Description			Version		
Tera Term			4.73		
(Linux) base			E 0.0.1.6		
EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Pulse Co-Oximeter	Masimo Corporation	RAD7CA	34996 Rev C		
Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Remote Laptop	Hewlett Packard	Compaq 6515b	CNU7300W4L		
Rainbow Patient Sensor	Masimo Corporation	DCI - dc12	9J042		
Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Cable	No	1.8m	No	RAD7CA	AC Mains
USB Cable	No	1.0m	No	RAD7CA	Remote Laptop
Rainbow Patient Sensor Cable	No	3.5m	No	RAD7CA	Unterminated
RS-232 Cable	No	1.8m	Yes	RAD7CA	Unterminated
DB-15 Cable	No	1.5m	Yes	RAD7CA	Unterminated
SatShare Cable	No	1.0m	Yes	RAD7CA	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configurations

Configuration 3 MASI0095

Software/Firmware Running during test	
Description	Version
Tera Term	4.73
(Linux) base	E 0.0.1.6

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Pulse Co-Oximeter	Masimo Corporation	RAD7CA	34996 Rev C

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Remote Laptop	Hewlett Packard	Compaq 6515b	CNU7300W4L
Rainbow Patient Sensor	Masimo Corporation	DCI - dc12	9J042

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Cable	No	1.8m	No	RAD7CA	AC Mains
USB Cable	No	1.0m	No	RAD7CA	Remote Laptop
Rainbow Patient Sensor Cable	No	3.5m	No	RAD7CA	Unterminated
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	4/18/2012	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	4/18/2012	Spurious 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.
3	4/18/2012	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.
4	4/19/2012	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.
5	4/19/2012	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.
6	4/27/2012	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.
7	4/27/2012	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies in the ISM 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 required data rates available in 802.11(a)/(b)/(g).



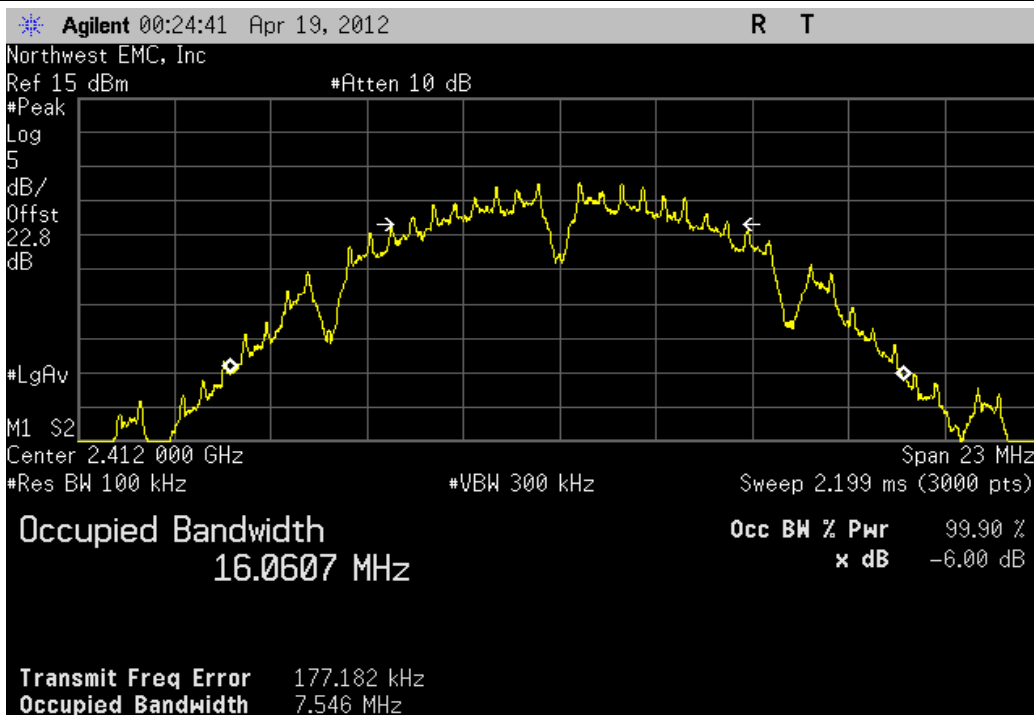
Occupied Bandwidth

XMit 2012.04.06
PsaTx 2012.01.25

EUT: RAD7CA		Work Order: MASI0095	
Serial Number: 34996 Rev C		Date: 04/18/12	
Customer: Masimo Corporation		Temperature: 22.84 C°C	
Attendees: None		Humidity: 38%	
Project: None		Barometric Pres.: 1014.4	
Tested by: Jaemi Suh		Power: 120VAC/50Hz	
		Job Site: OC10	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2012		ANSI C63.10:2009	
COMMENTS			
Power Setting: 99. Antenna Port 2.			
DEVIATIONS FROM TEST STANDARD			
No Deviations			
Configuration #	1	Signature 	
		Value	Limit
2400 MHz - 2483.5 MHz Band			Result
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz		7.546 MHz	> 500 kHz
Mid Channel 6, 2437 MHz		7.478 MHz	> 500 kHz
High Channel 11, 2462 MHz		7.121 MHz	> 500 kHz
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz		7.517 MHz	> 500 kHz
Mid Channel 6, 2437 MHz		7.398 MHz	> 500 kHz
High Channel 11, 2462 MHz		7.019 MHz	> 500 kHz
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz		13.926 MHz	> 500 kHz
Mid Channel 6, 2437 MHz		15.307 MHz	> 500 kHz
High Channel 11, 2462 MHz		14.879 MHz	> 500 kHz
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz		15.014 MHz	> 500 kHz
Mid Channel 6, 2437 MHz		15.004 MHz	> 500 kHz
High Channel 11, 2462 MHz		15.077 MHz	> 500 kHz
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz		15.105 MHz	> 500 kHz
Mid Channel 6, 2437 MHz		14.806 MHz	> 500 kHz
High Channel 11, 2462 MHz		15.382 MHz	> 500 kHz
5725 MHz - 5850 MHz Band			
802.11(a) 6 Mbps			
Low Channel 149, 5745 MHz		13.974 MHz	> 500 kHz
Mid Channel 157, 5785 MHz		14.933 MHz	> 500 kHz
High Channel 165, 5825 MHz		14.64 MHz	> 500 kHz
802.11(a) 36 Mbps			
Low Channel 149, 5745 MHz		15.112 MHz	> 500 kHz
Mid Channel 157, 5785 MHz		14.918 MHz	> 500 kHz
High Channel 165, 5825 MHz		14.963 MHz	> 500 kHz
802.11(a) 54 Mbps			
Low Channel 149, 5745 MHz		13.311 MHz	> 500 kHz
Mid Channel 157, 5785 MHz		13.402 MHz	> 500 kHz
High Channel 165, 5825 MHz		14.959 MHz	> 500 kHz

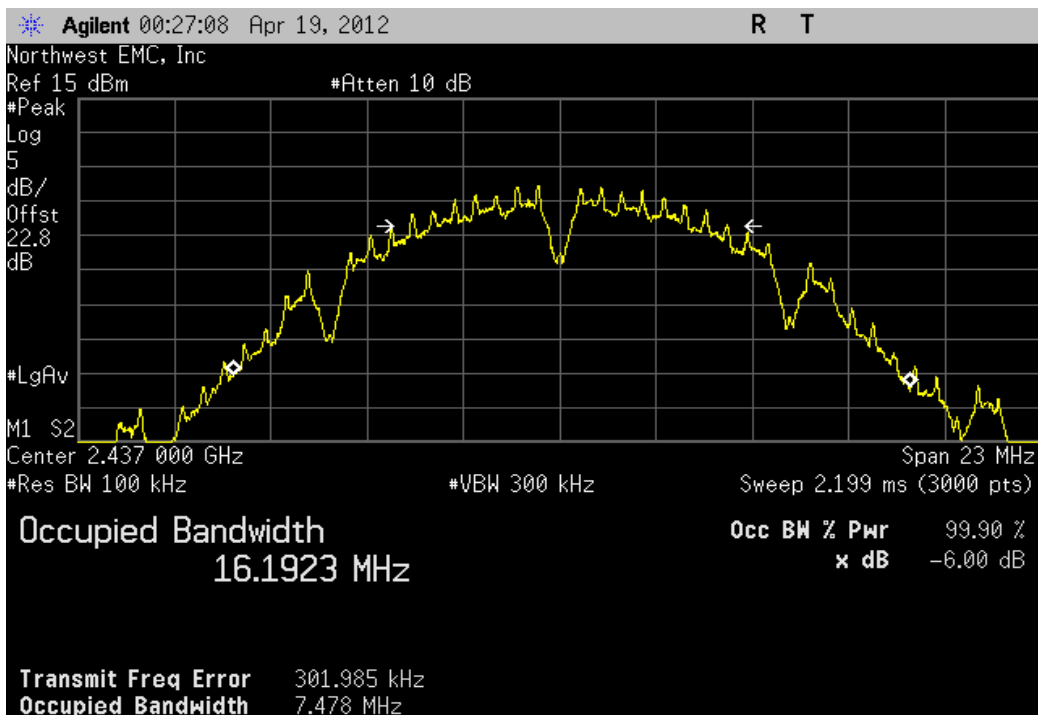
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				7.546 MHz	> 500 kHz	Pass



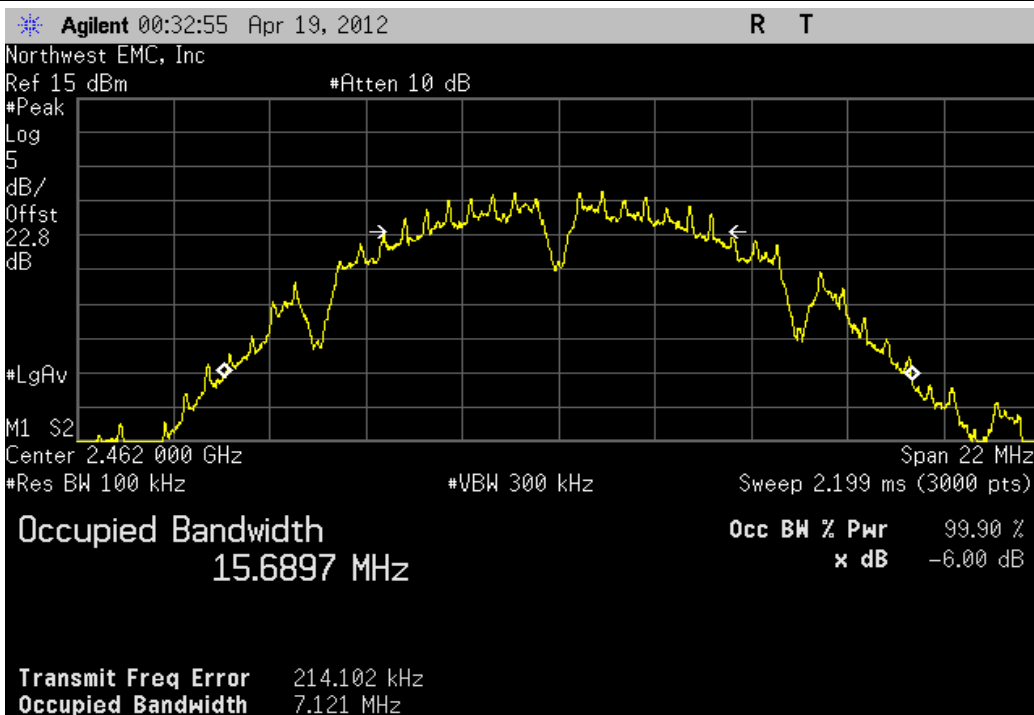
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				7.478 MHz	> 500 kHz	Pass



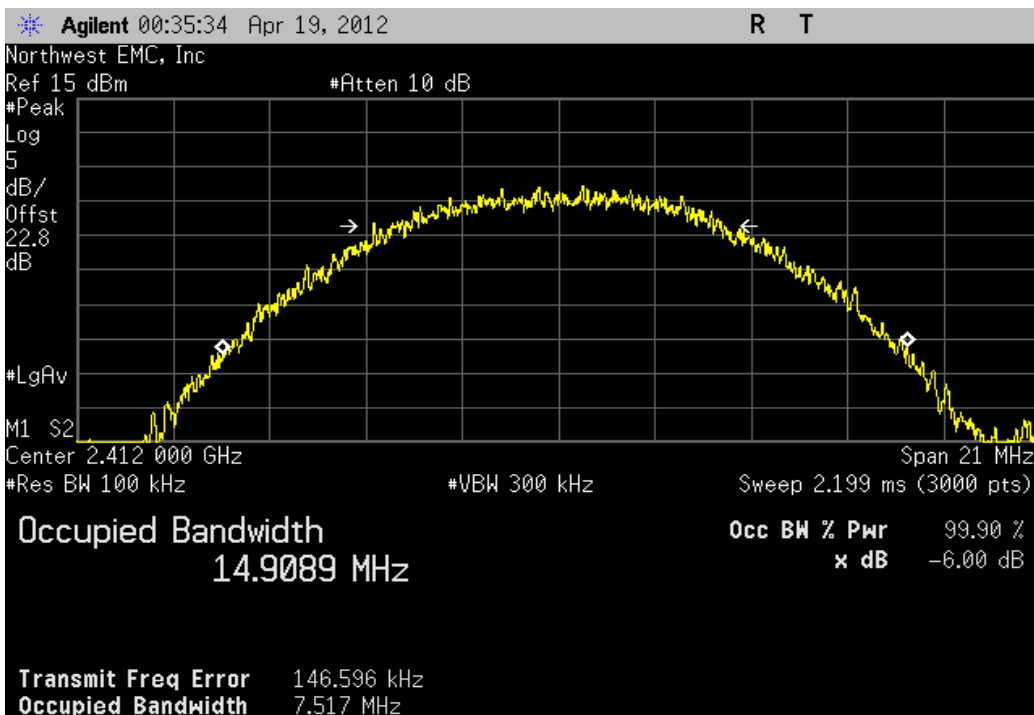
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
7.121 MHz	> 500 kHz	Pass



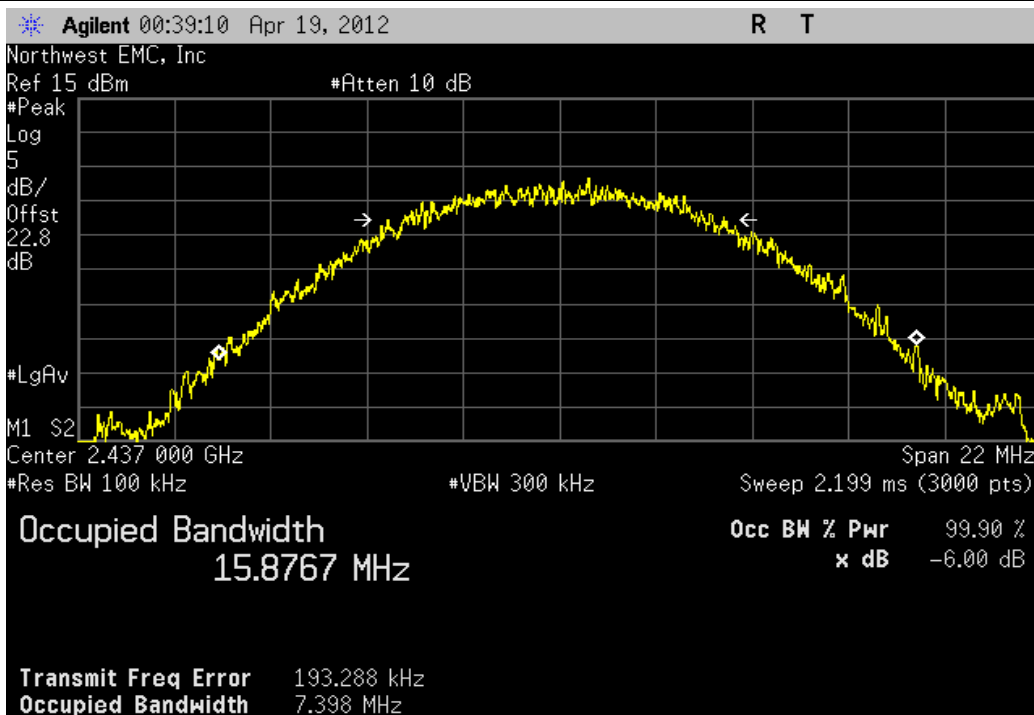
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
7.517 MHz	> 500 kHz	Pass



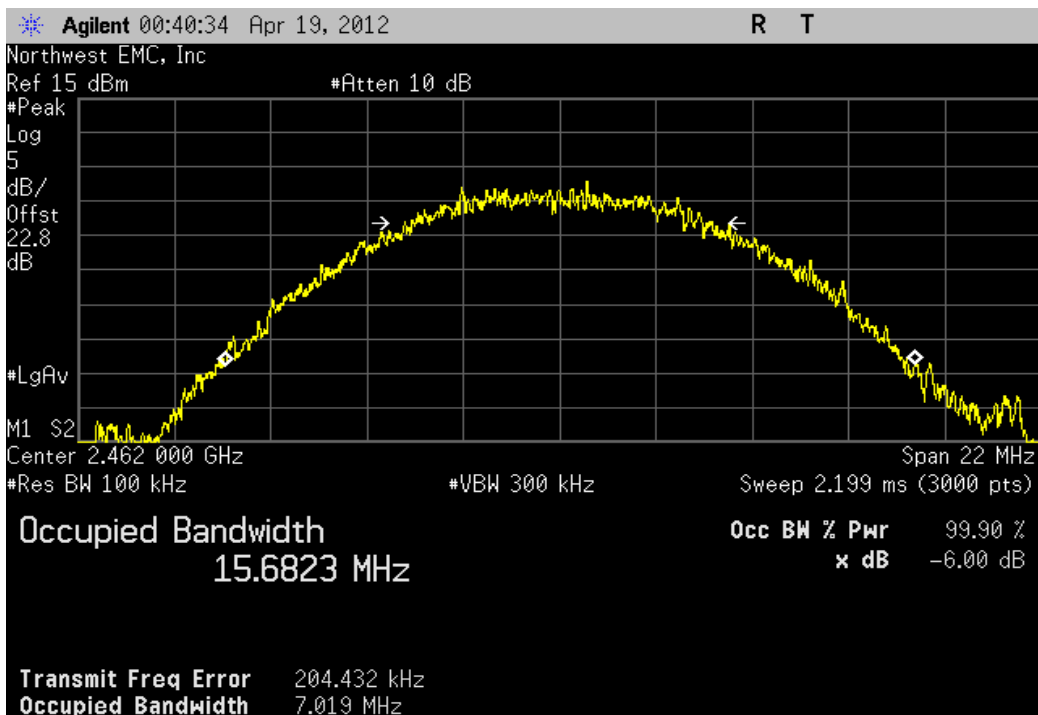
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
7.398 MHz	> 500 kHz	Pass



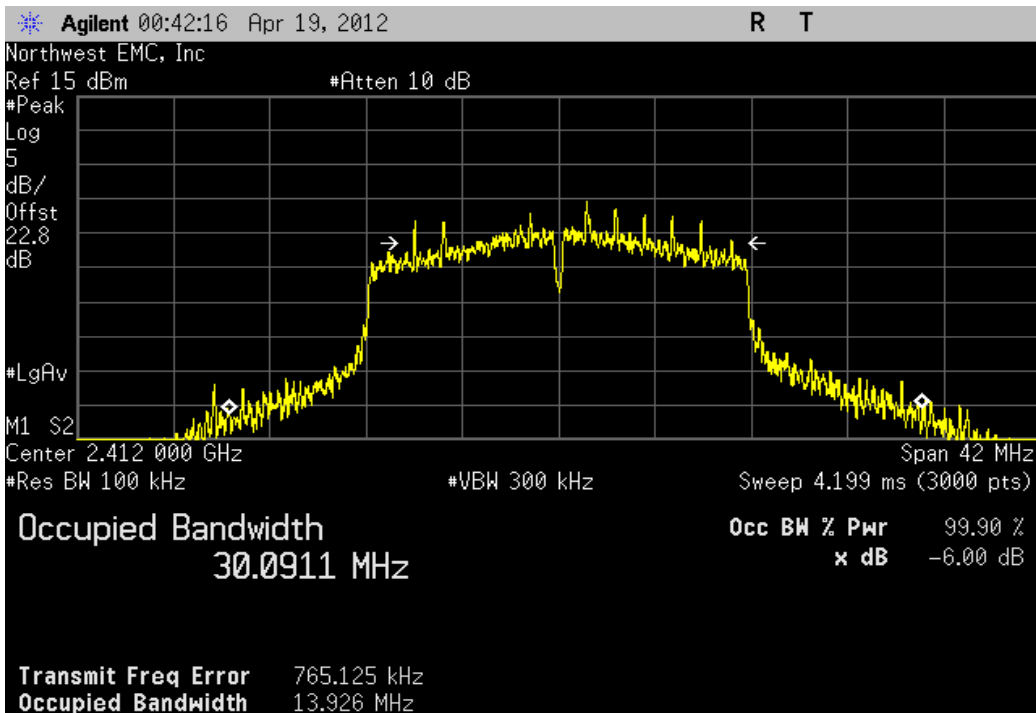
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
7.019 MHz	> 500 kHz	Pass



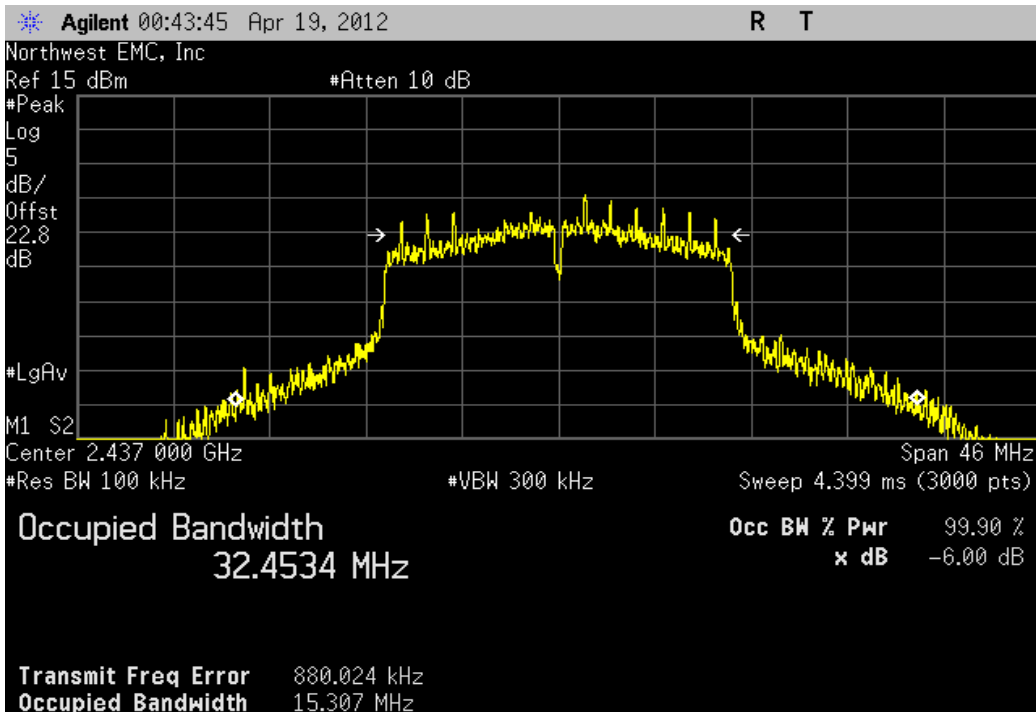
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
13.926 MHz	> 500 kHz	Pass



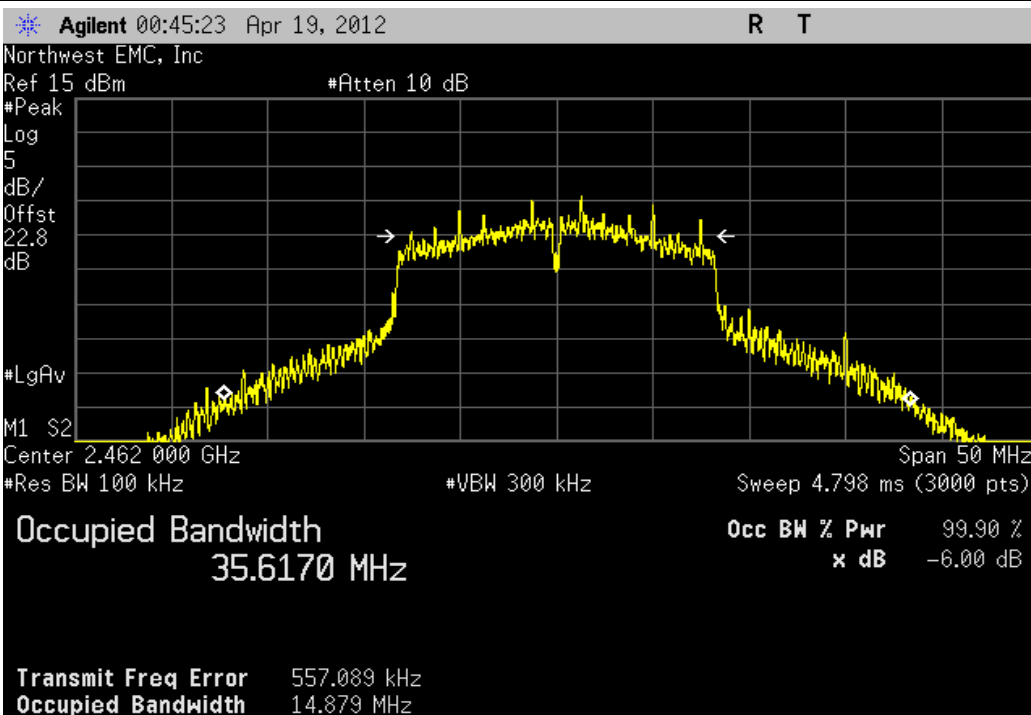
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
15.307 MHz	> 500 kHz	Pass



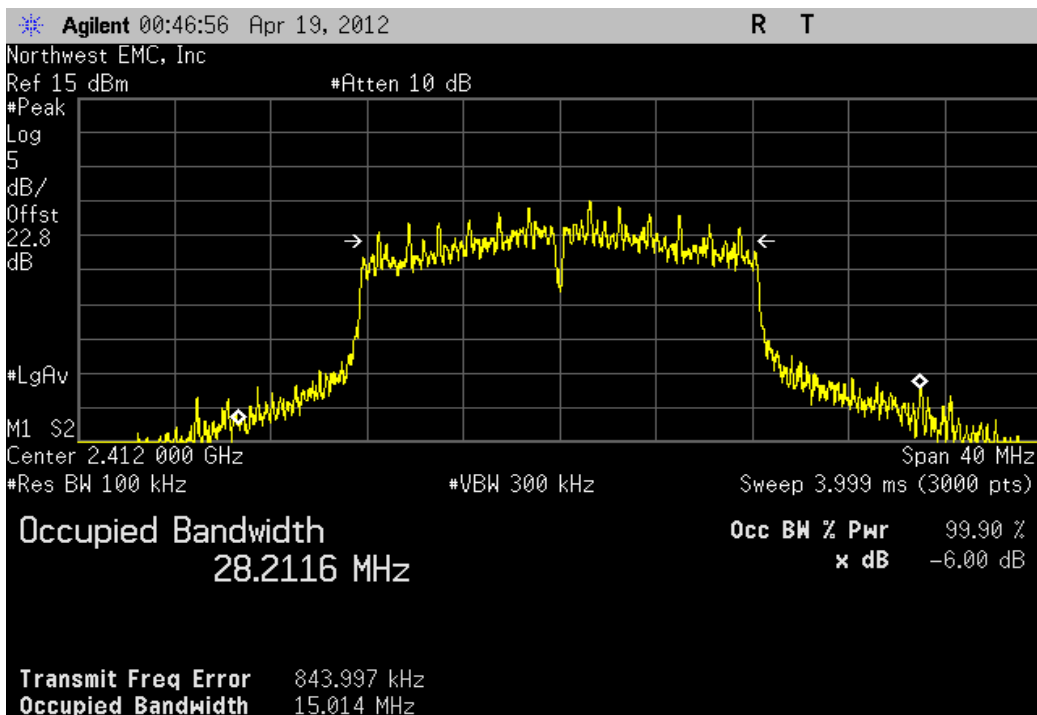
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
14.879 MHz	> 500 kHz	Pass



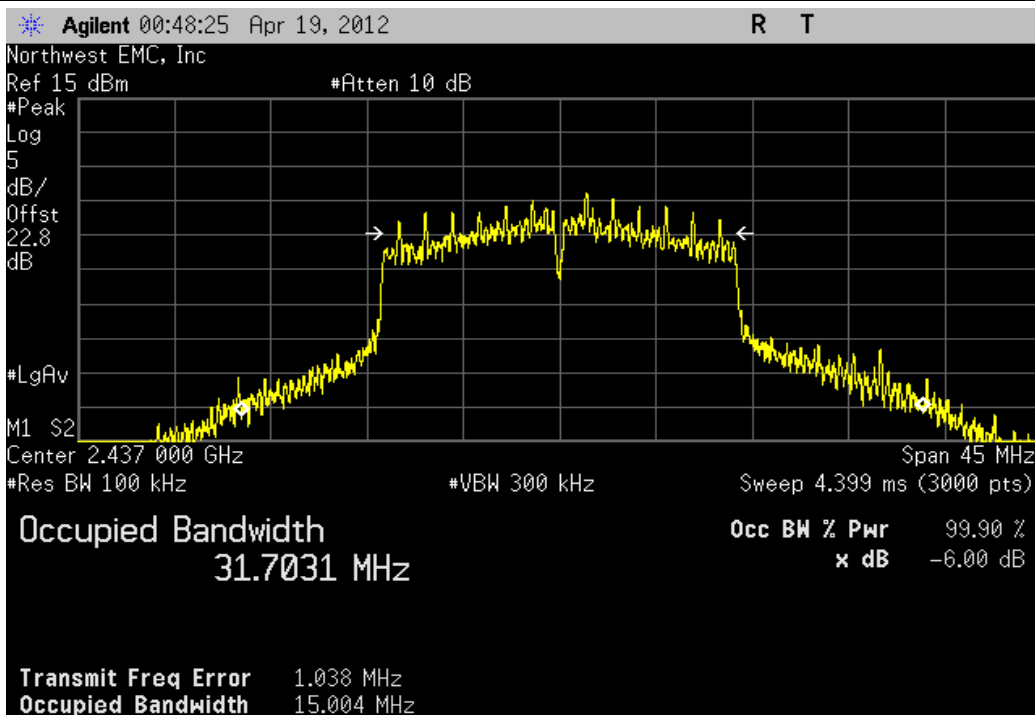
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
15.014 MHz	> 500 kHz	Pass



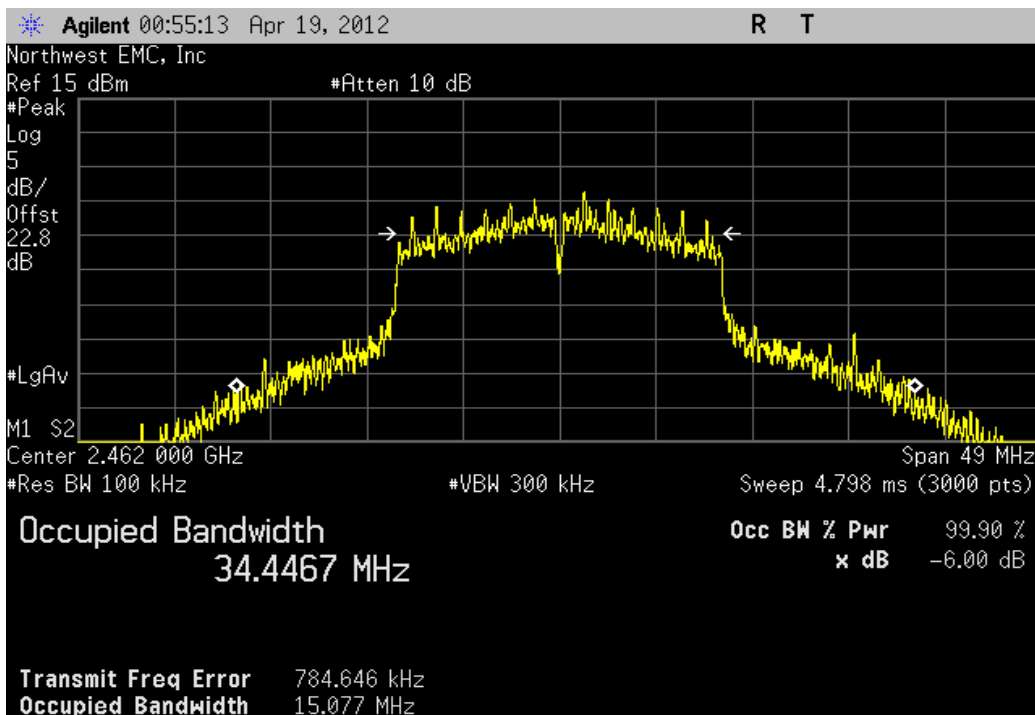
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
15.004 MHz	> 500 kHz	Pass



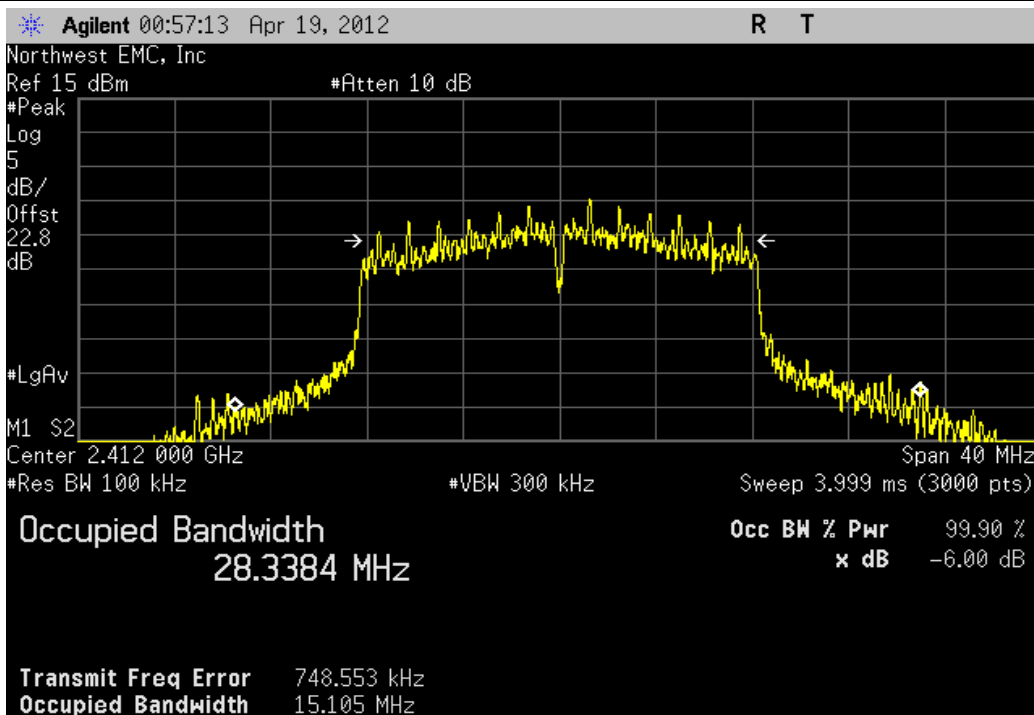
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
15.077 MHz	> 500 kHz	Pass



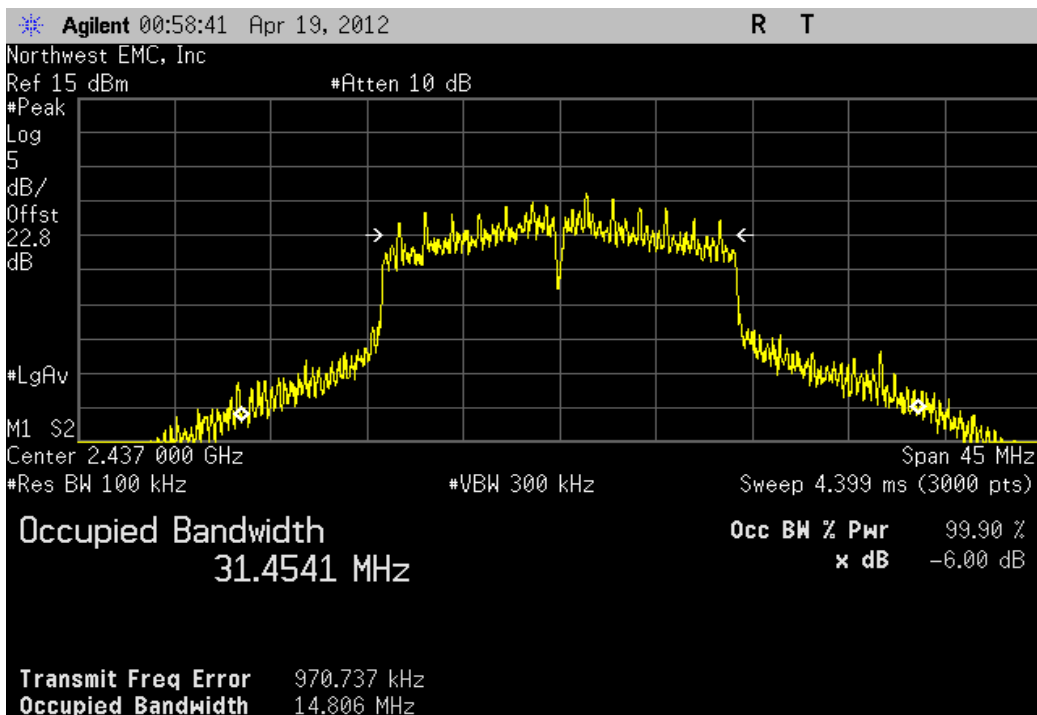
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
15.105 MHz	> 500 kHz	Pass



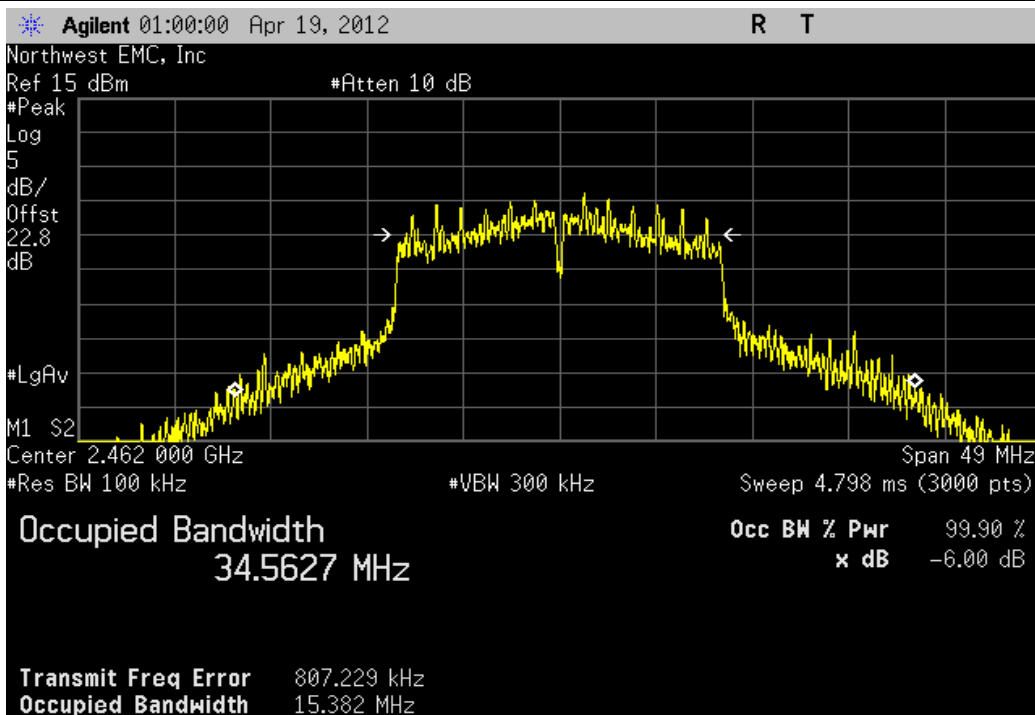
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
14.806 MHz	> 500 kHz	Pass



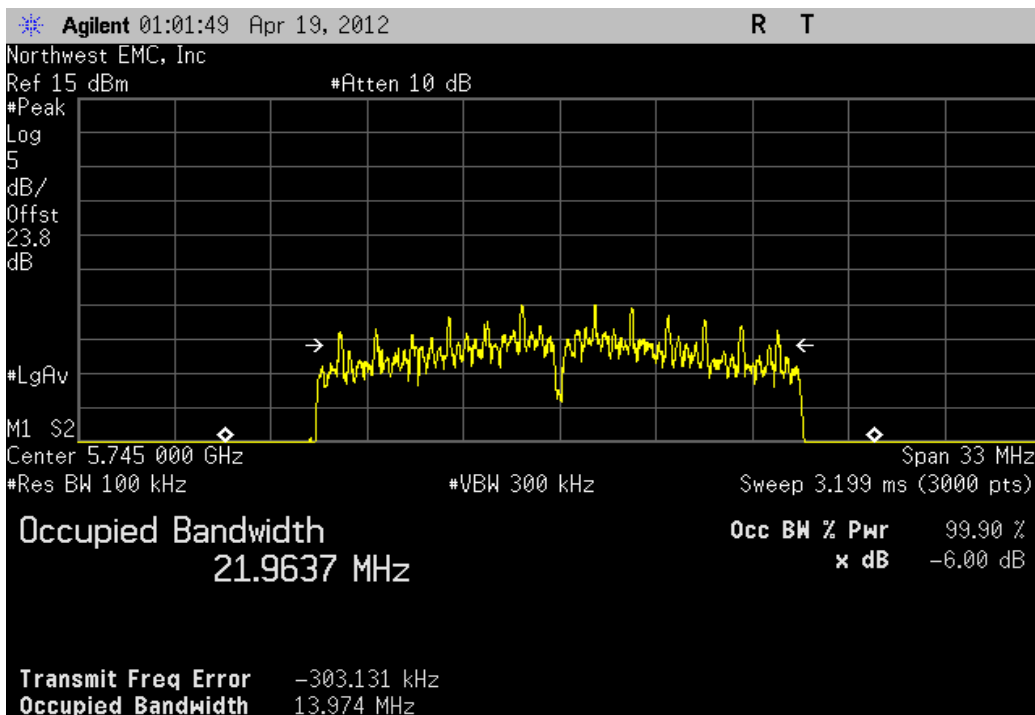
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
15.382 MHz	> 500 kHz	Pass



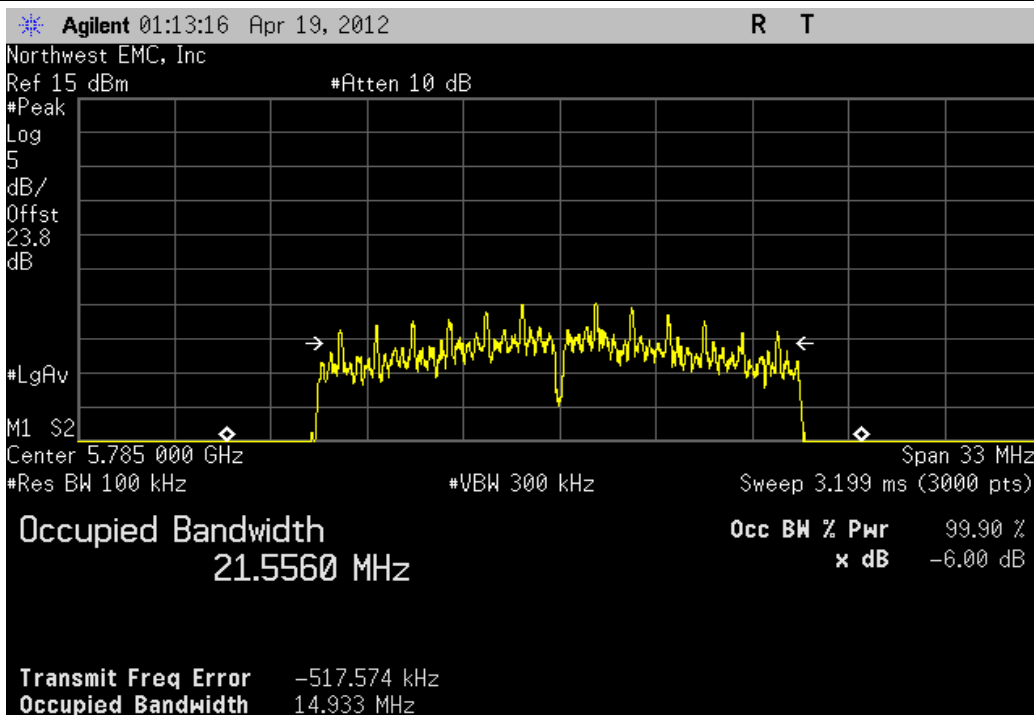
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
13.974 MHz	> 500 kHz	Pass



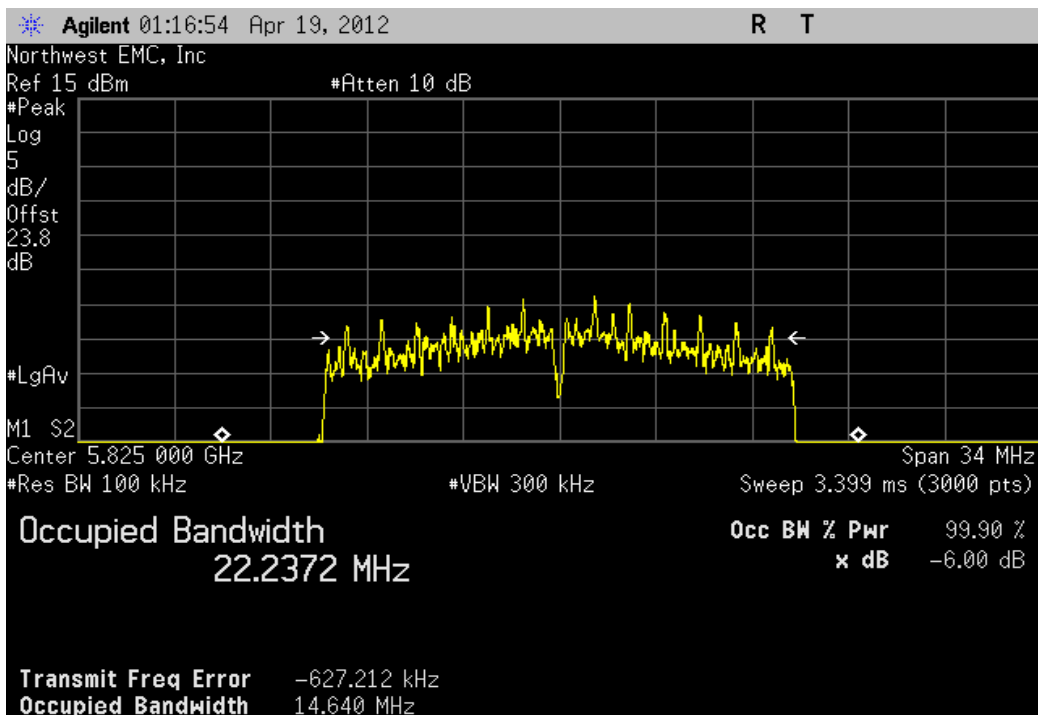
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
14.933 MHz	> 500 kHz	Pass



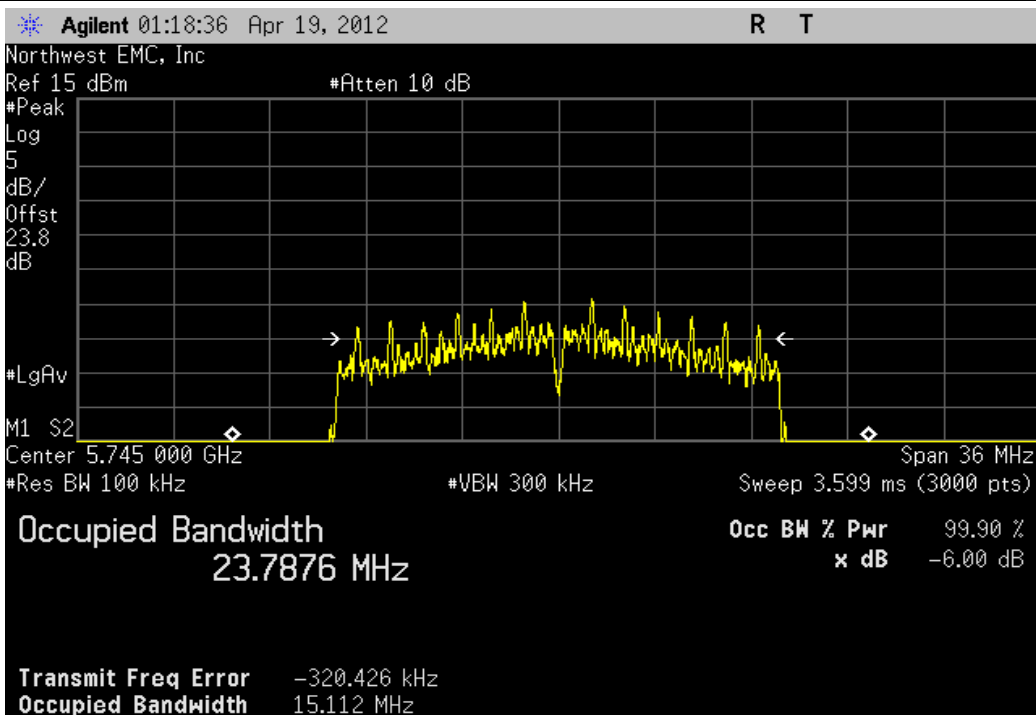
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
14.64 MHz	> 500 kHz	Pass



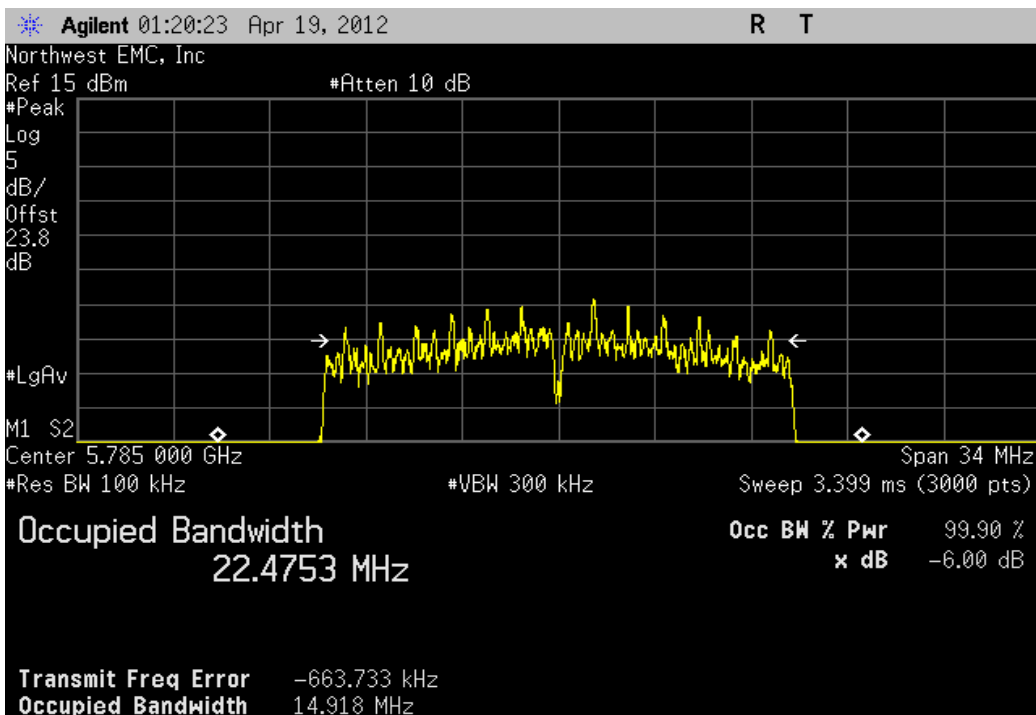
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
15.112 MHz	> 500 kHz	Pass



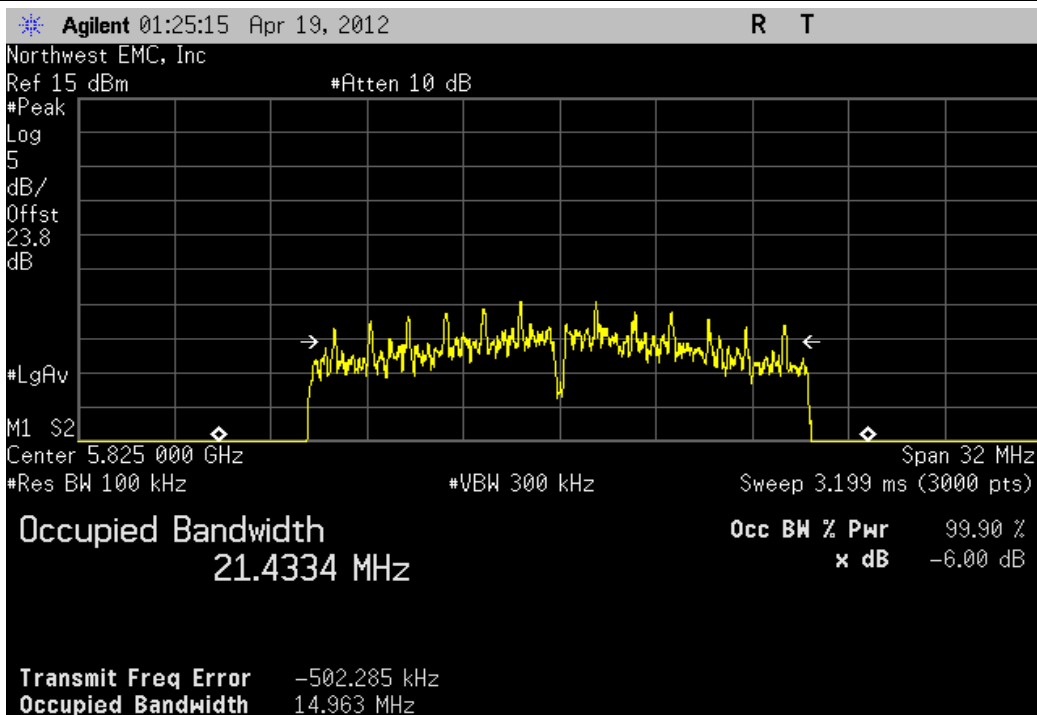
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
14.918 MHz	> 500 kHz	Pass



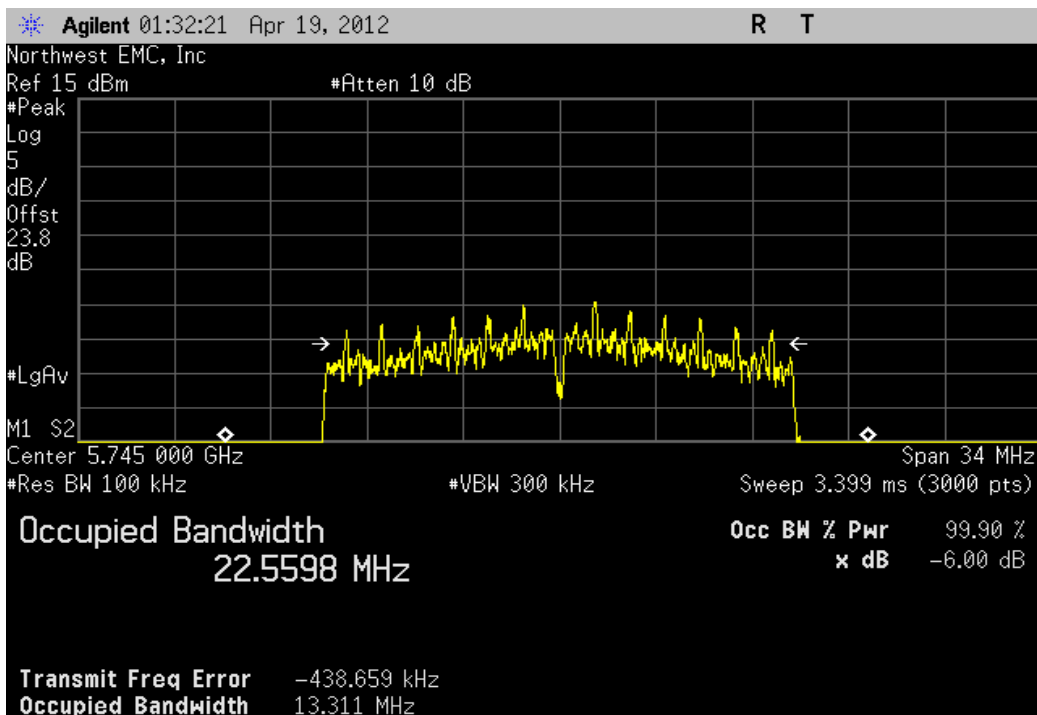
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
14.963 MHz	> 500 kHz	Pass



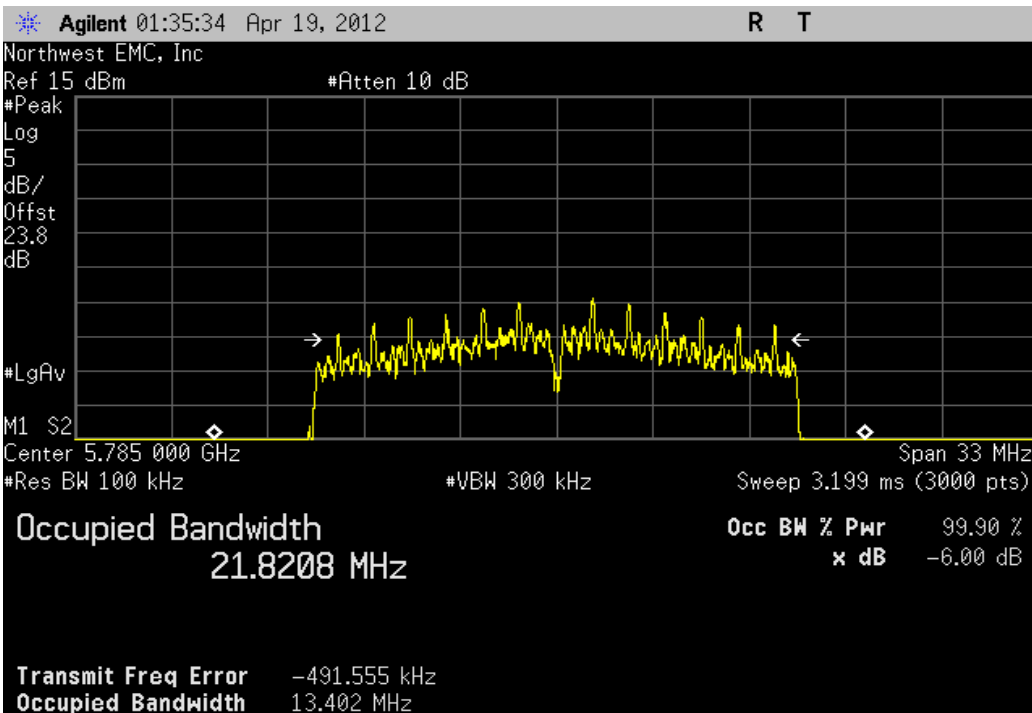
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
13.311 MHz	> 500 kHz	Pass



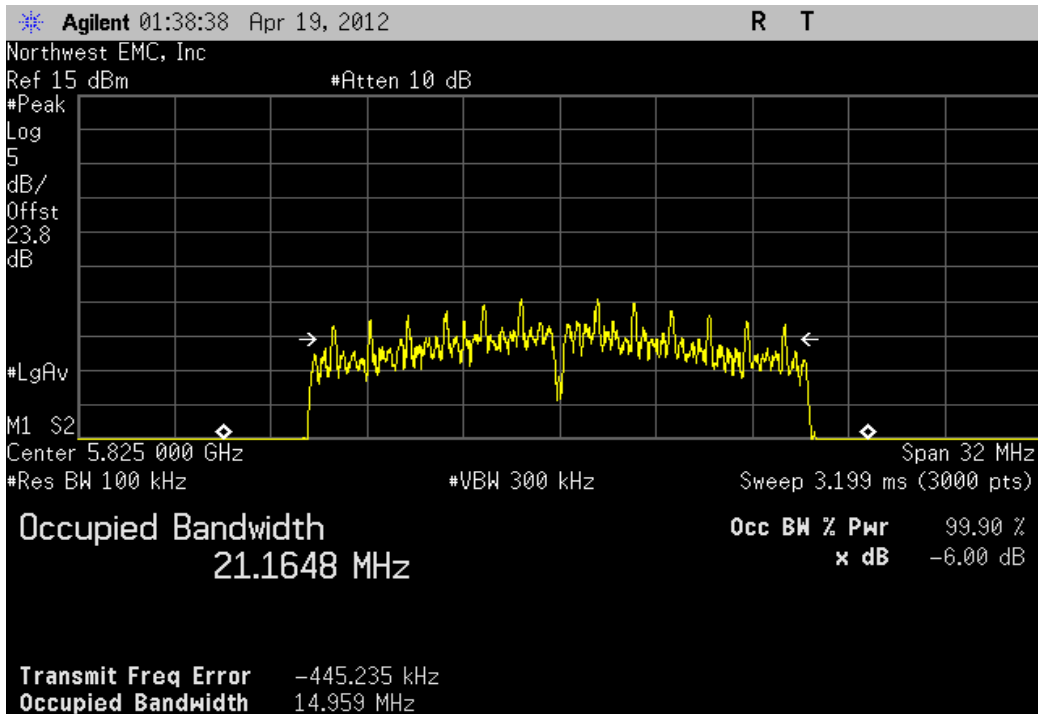
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
13.402 MHz	> 500 kHz	Pass



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

Value	Limit	Result
14.959 MHz	> 500 kHz	Pass



Output Power

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band, at each of the required data rates. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

- Prior to measuring peak transmit power; the emission bandwidth (B) was measured.
- Power was integrated across "B", by using the channel power function of the spectrum analyzer and its default bandwidths.



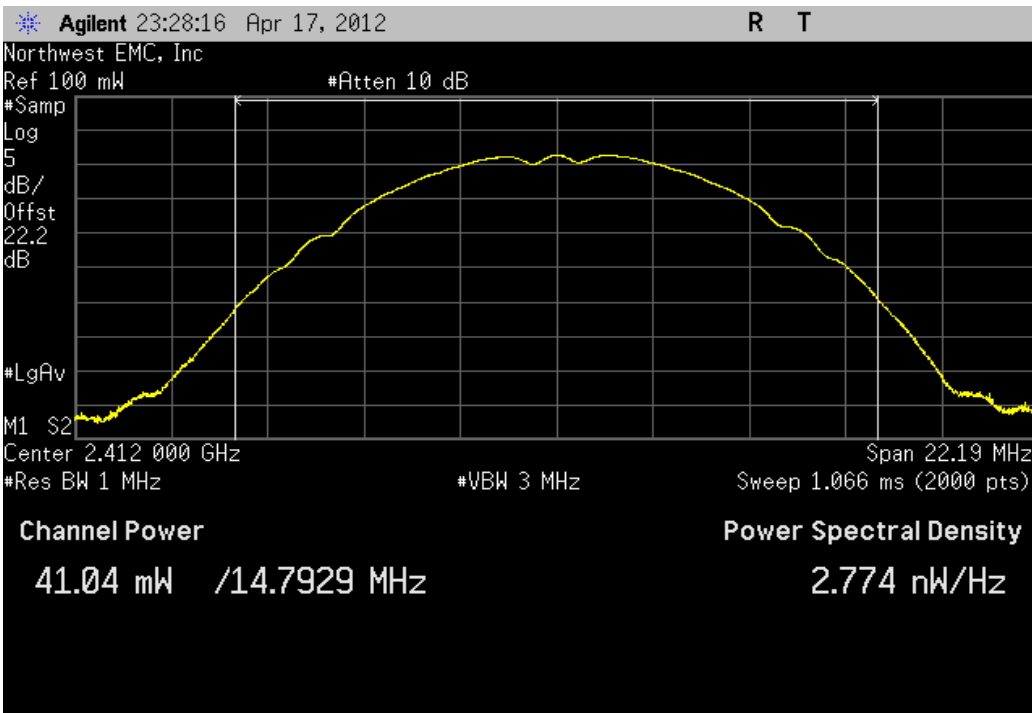
Output Power

XMit 2012.04.06
PsaTx 2012.01.25

EUT: RAD7CA		Work Order: MASI0095		
Serial Number: 34996 Rev C		Date: 04/27/12		
Customer: Masimo Corporation		Temperature: 22.84 C°C		
Attendees: none		Humidity: 38%		
Project: None		Barometric Pres.: 1014.4		
Tested by: Jaemi Suh		Power: 120VAC/60Hz		
		Job Site: OC10		
TEST SPECIFICATIONS		Test Method		
FCC 15.247:2012		ANSI C63.10:2009		
COMMENTS				
Antenna Port 1. Power Level setting set to 99.				
DEVIATIONS FROM TEST STANDARD				
Configuration #	1	Signature 		
		Value	Limit	Result
2400 MHz - 2483.5 MHz Band				
802.11(b) 1 Mbps				
Low Channel 1, 2412 MHz		41.04 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		46.332 mW	< 1 W	Pass
High Channel 11, 2462 MHz		49.663 mW	< 1 W	Pass
802.11(b) 11 Mbps				
Low Channel 1, 2412 MHz		39.696 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		44.858 mW	< 1 W	Pass
High Channel 11, 2462 MHz		52.352 mW	< 1 W	Pass
802.11(g) 6 Mbps				
Low Channel 1, 2412 MHz		27.942 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		30.978 mW	< 1 W	Pass
High Channel 11, 2462 MHz		36.443 mW	< 1 W	Pass
802.11(g) 36 Mbps				
Low Channel 1, 2412 MHz		24.134 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		26.97 mW	< 1 W	Pass
High Channel 11, 2462 MHz		30.612 mW	< 1 W	Pass
802.11(g) 54 Mbps				
Low Channel 1, 2412 MHz		22.038 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		25.503 mW	< 1 W	Pass
High Channel 11, 2462 MHz		28.36 mW	< 1 W	Pass
5725 MHz - 5850 MHz Band				
802.11(a) 6 Mbps				
Low Channel 149, 5745 MHz		5.923 mW	< 1 W	Pass
Mid Channel 157, 5785 MHz		5.752 mW	< 1 W	Pass
High Channel 165, 5825 MHz		5.333 mW	< 1 W	Pass
802.11(a) 36 Mbps				
Low Channel 149, 5745 MHz		6.228 mW	< 1 W	Pass
Mid Channel 157, 5785 MHz		5.826 mW	< 1 W	Pass
High Channel 165, 5825 MHz		5.361 mW	< 1 W	Pass
802.11(a) 54 Mbps				
Low Channel 149, 5745 MHz		6.093 mW	< 1 W	Pass
Mid Channel 157, 5785 MHz		5.926 mW	< 1 W	Pass
High Channel 165, 5825 MHz		5.319 mW	< 1 W	Pass

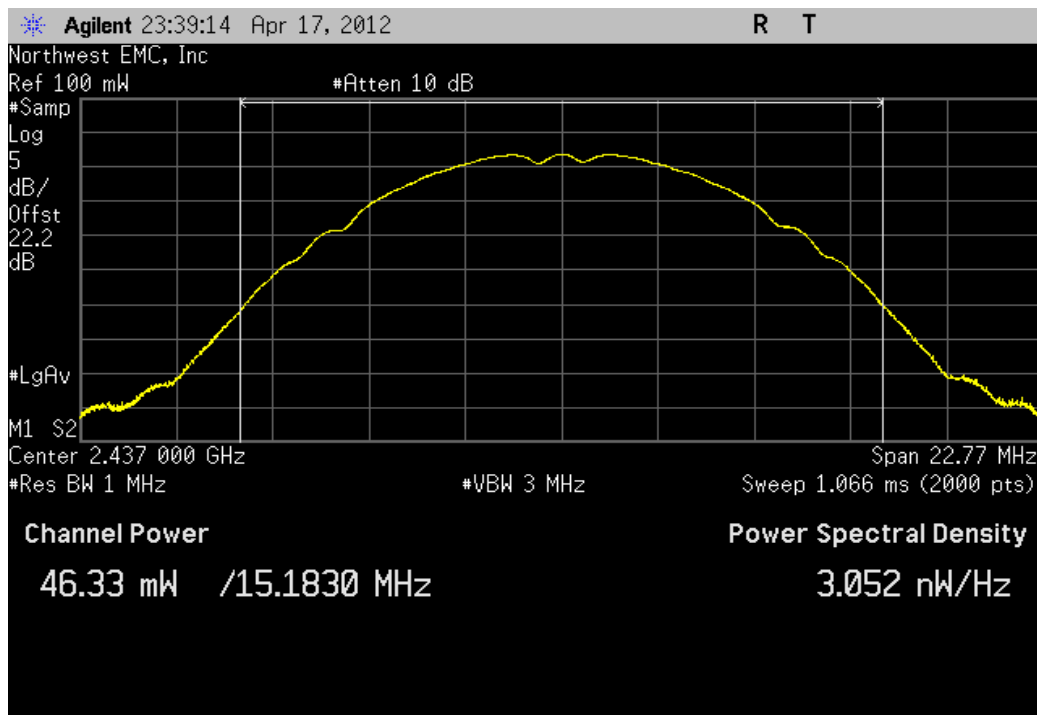
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	41.04 mW	< 1 W	Pass



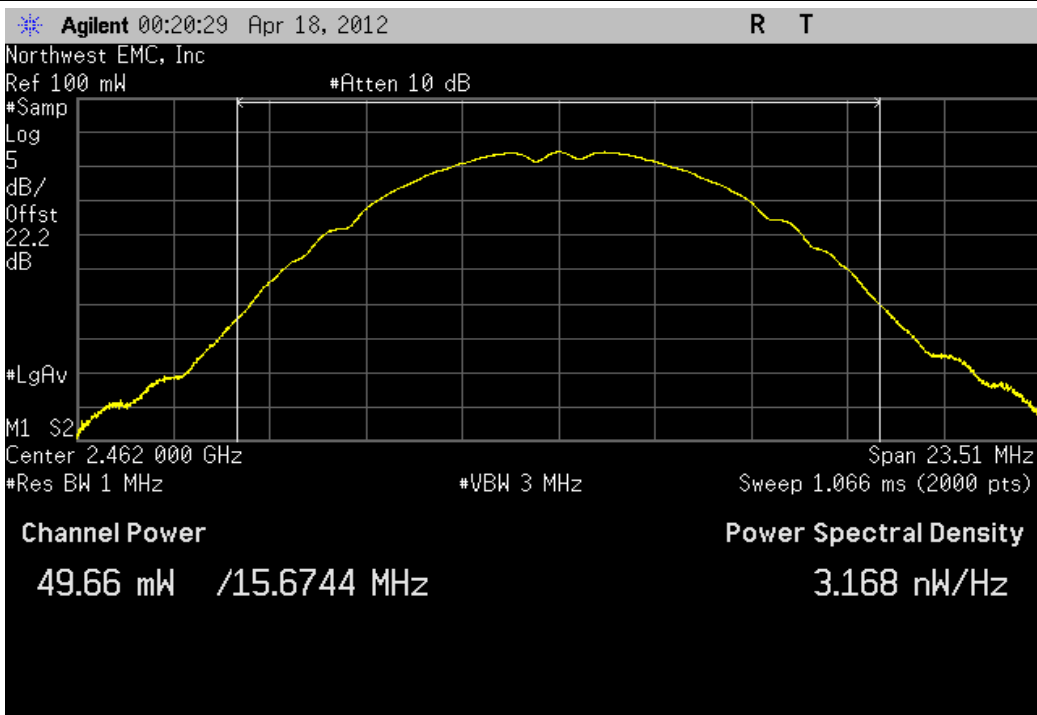
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	46.332 mW	< 1 W	Pass



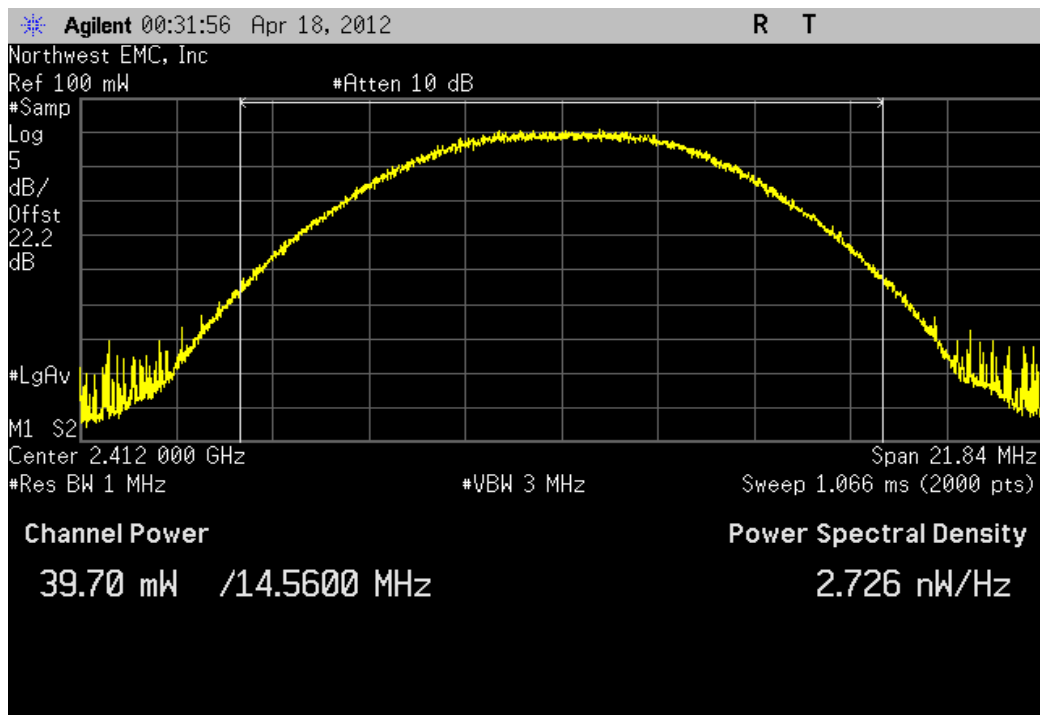
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
49.663 mW	< 1 W	Pass



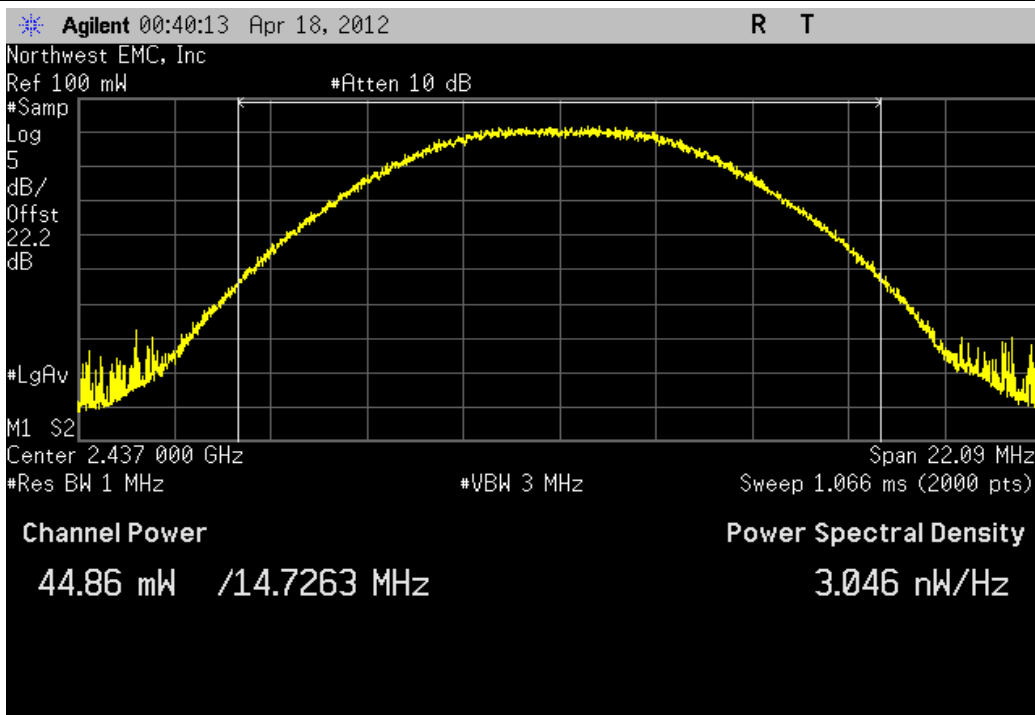
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
39.696 mW	< 1 W	Pass



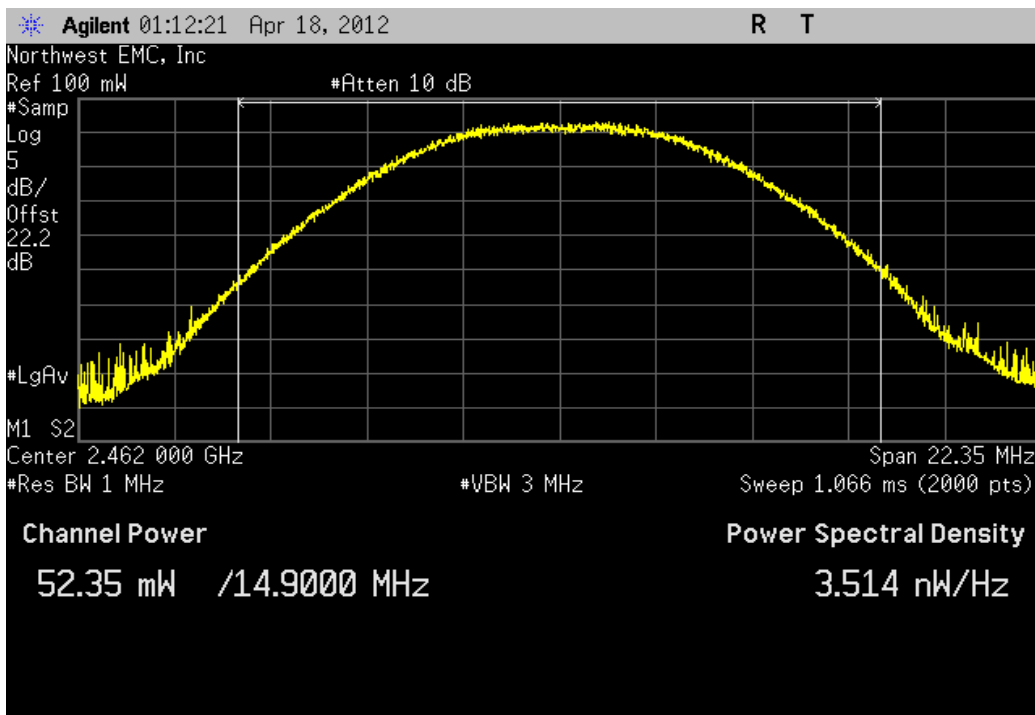
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
44.858 mW	< 1 W	Pass



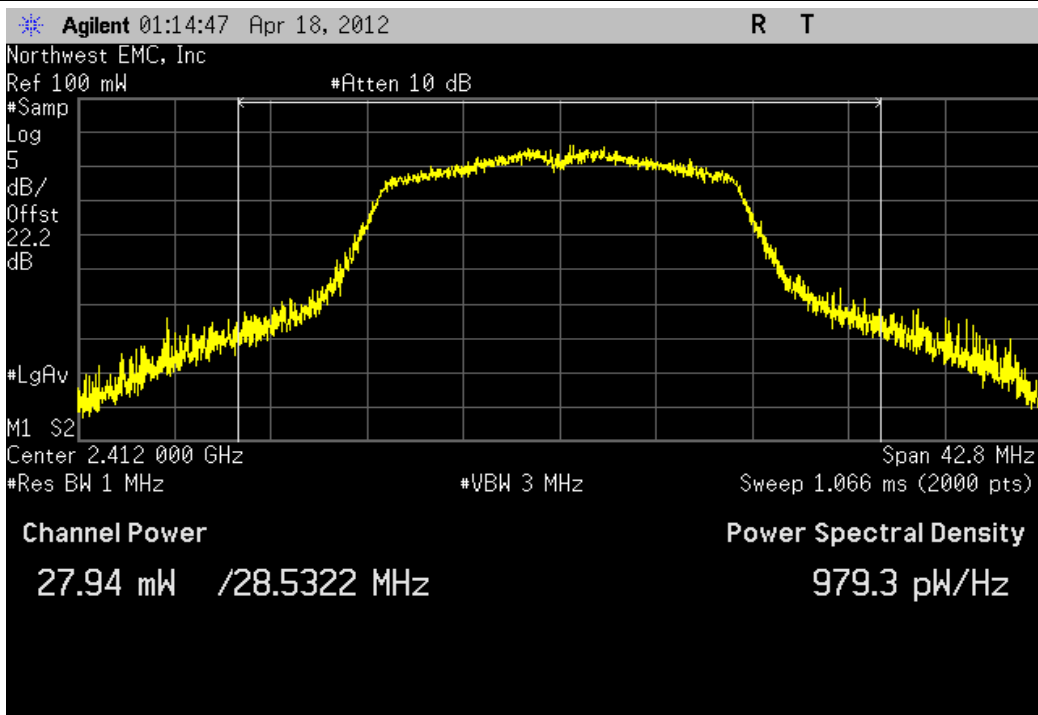
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
52.352 mW	< 1 W	Pass



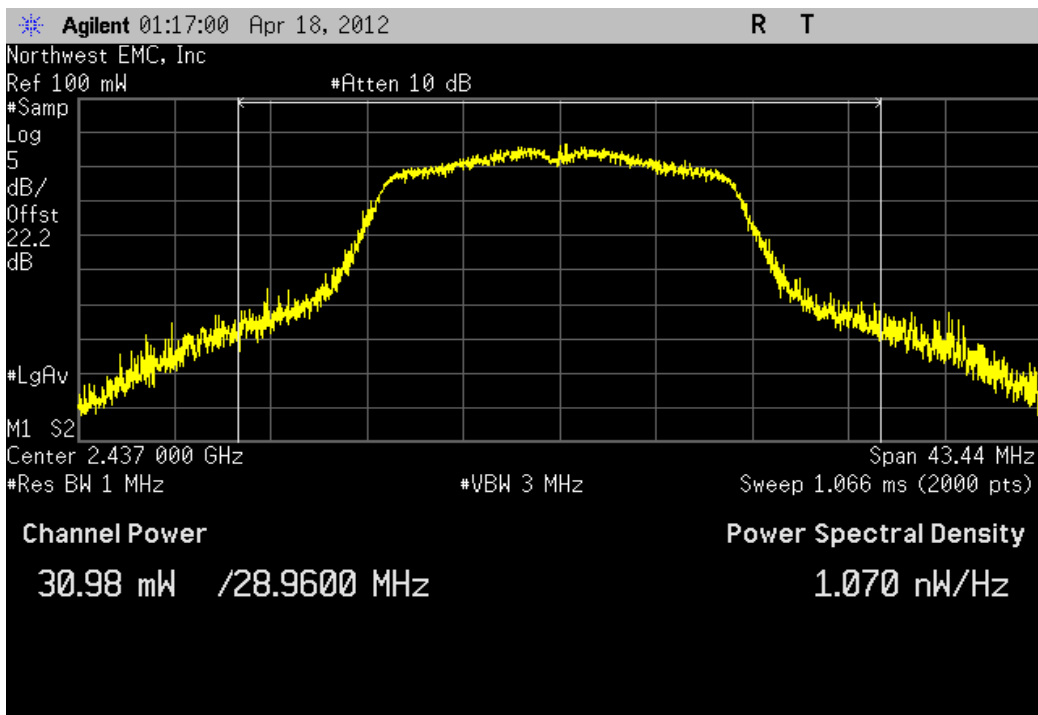
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	27.942 mW	< 1 W	Pass



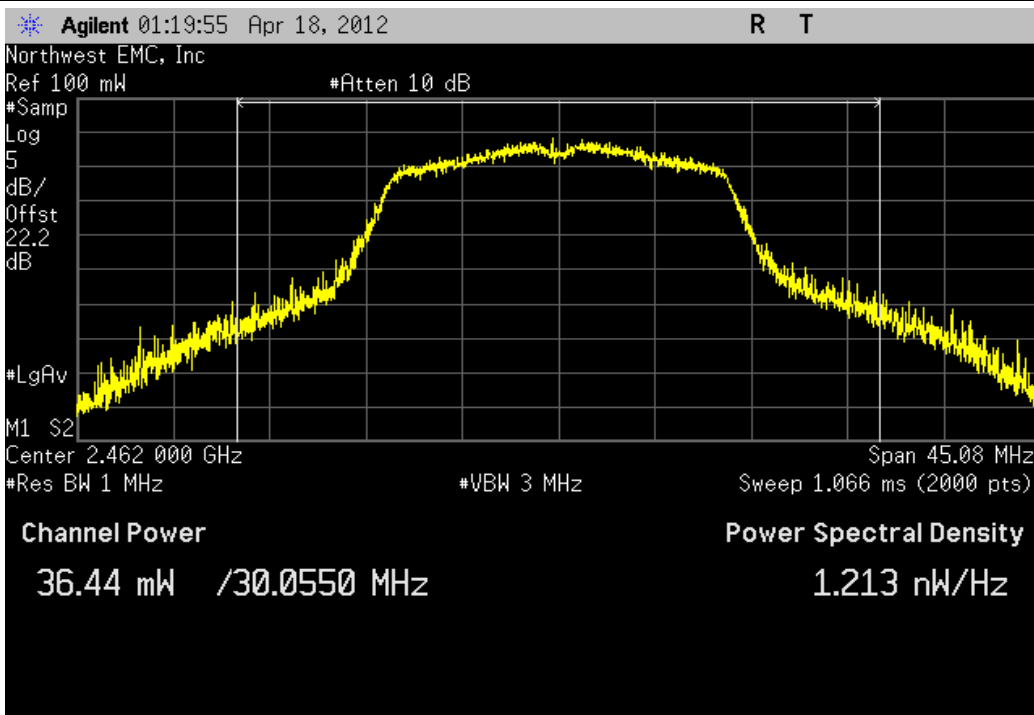
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	30.978 mW	< 1 W	Pass



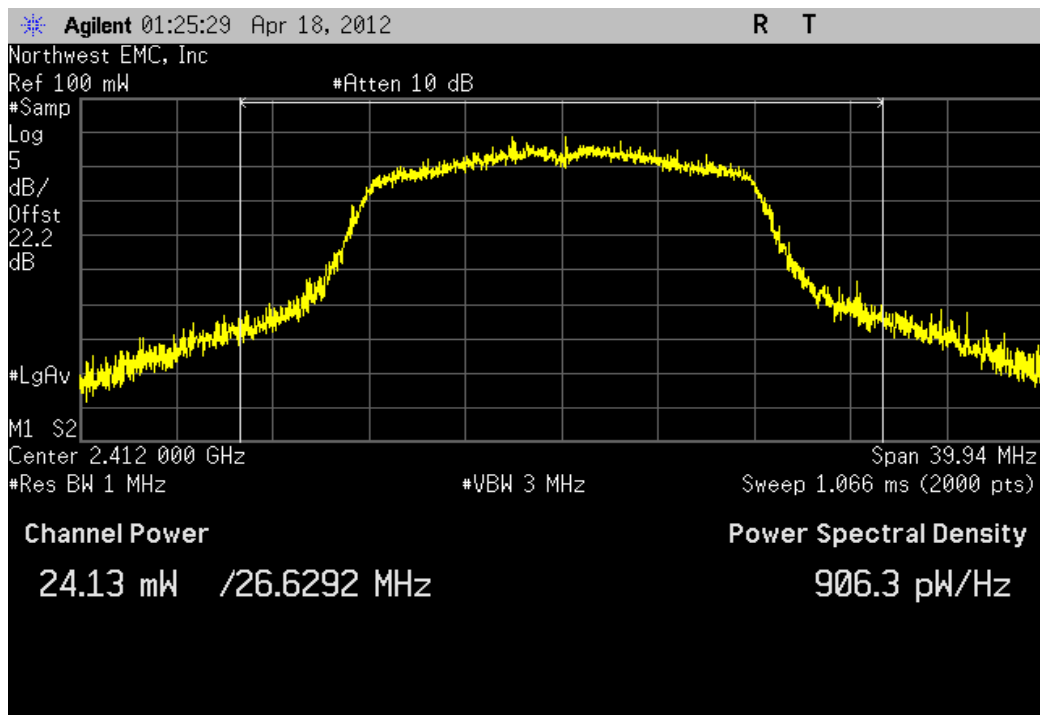
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
36.443 mW	< 1 W	Pass



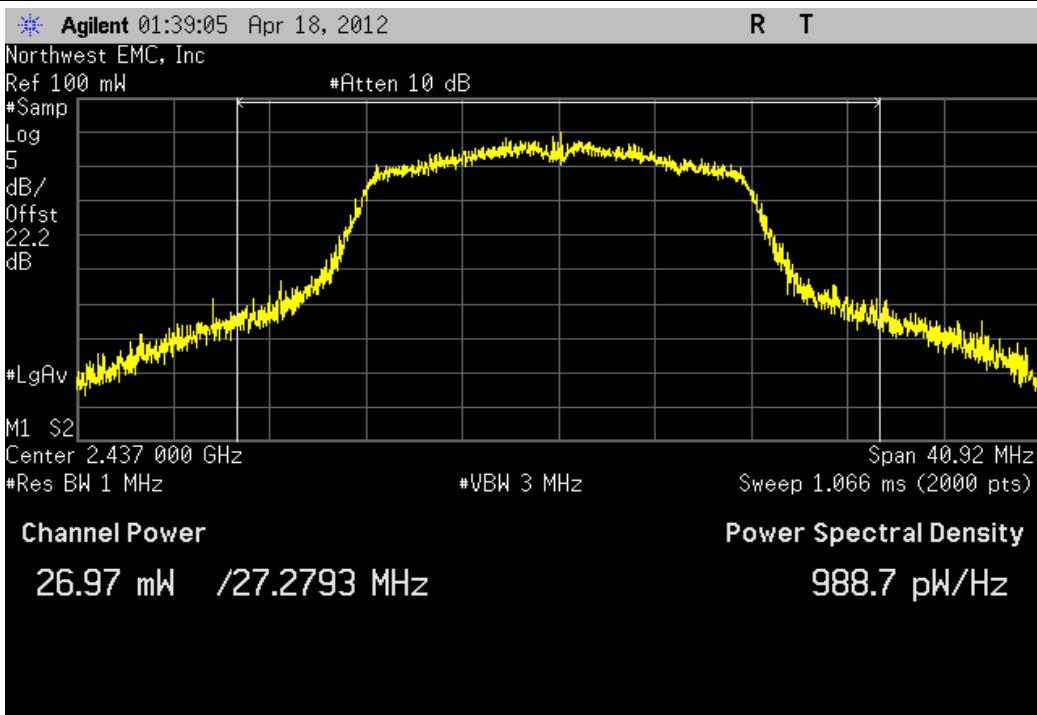
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
24.134 mW	< 1 W	Pass



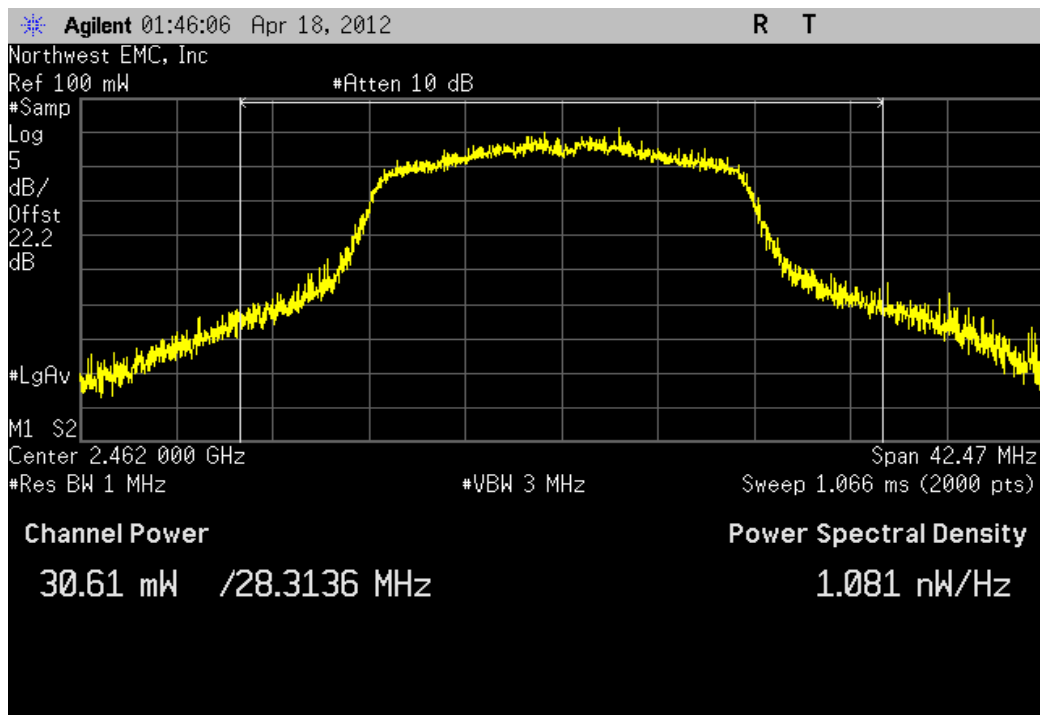
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				26.97 mW	< 1 W	Pass



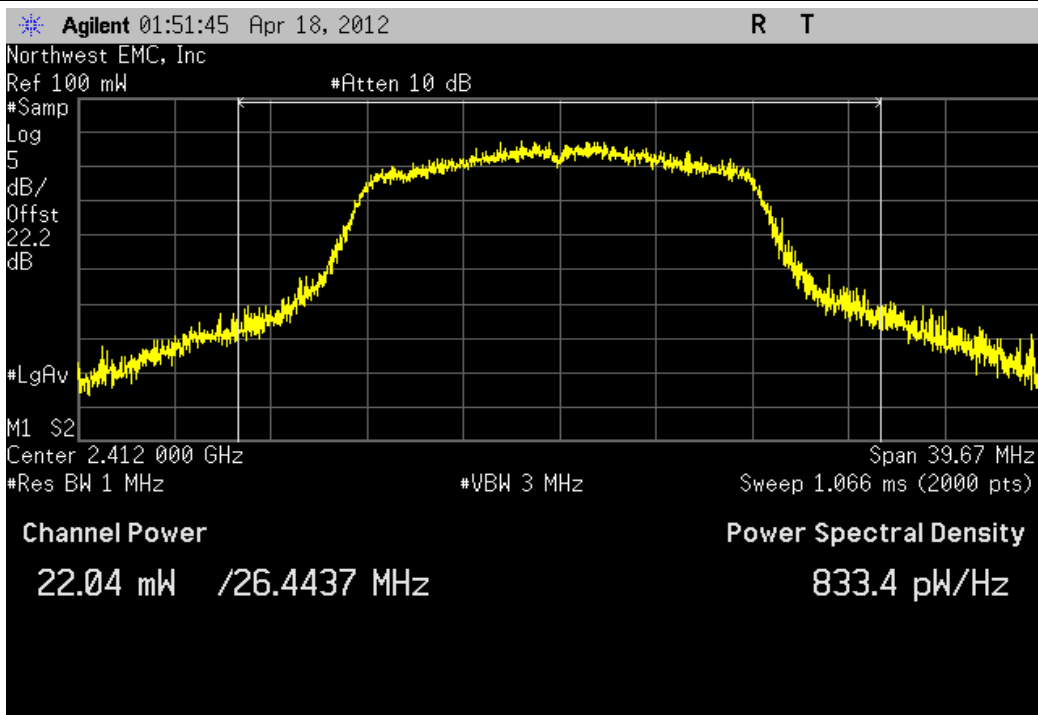
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				30.612 mW	< 1 W	Pass



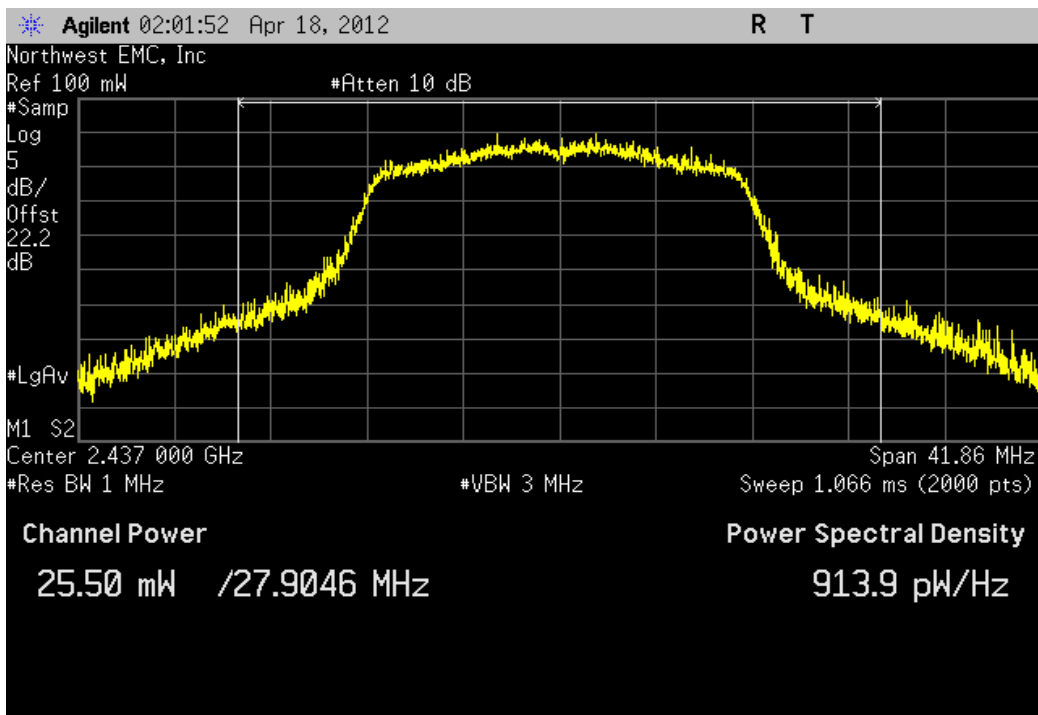
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	22.038 mW	< 1 W	Pass



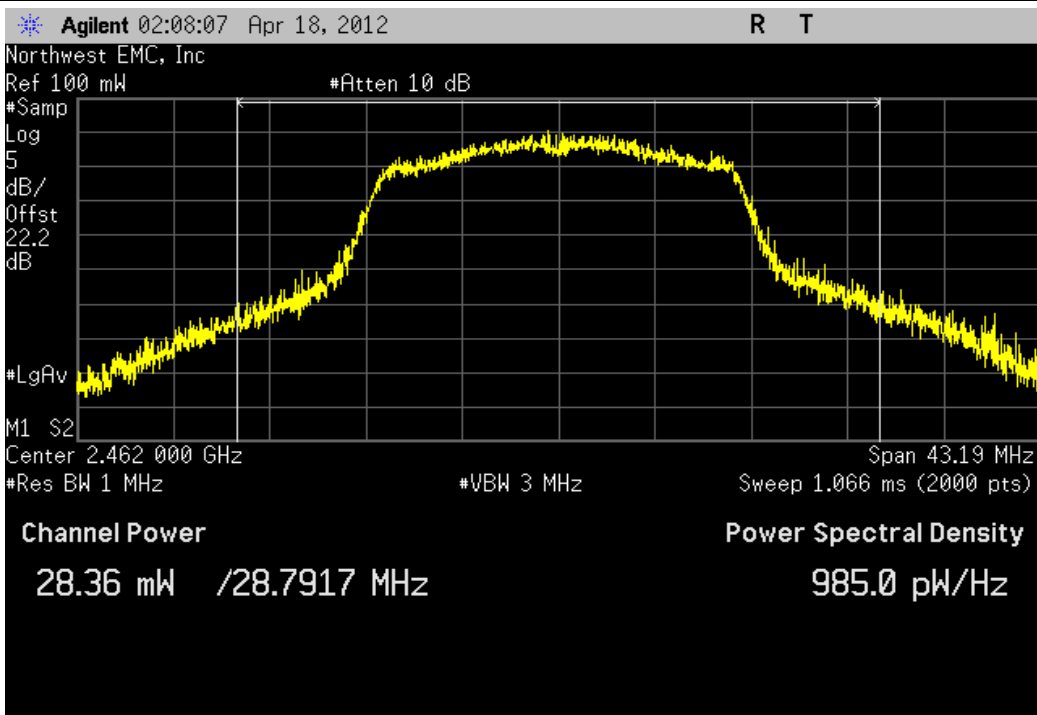
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	25.503 mW	< 1 W	Pass



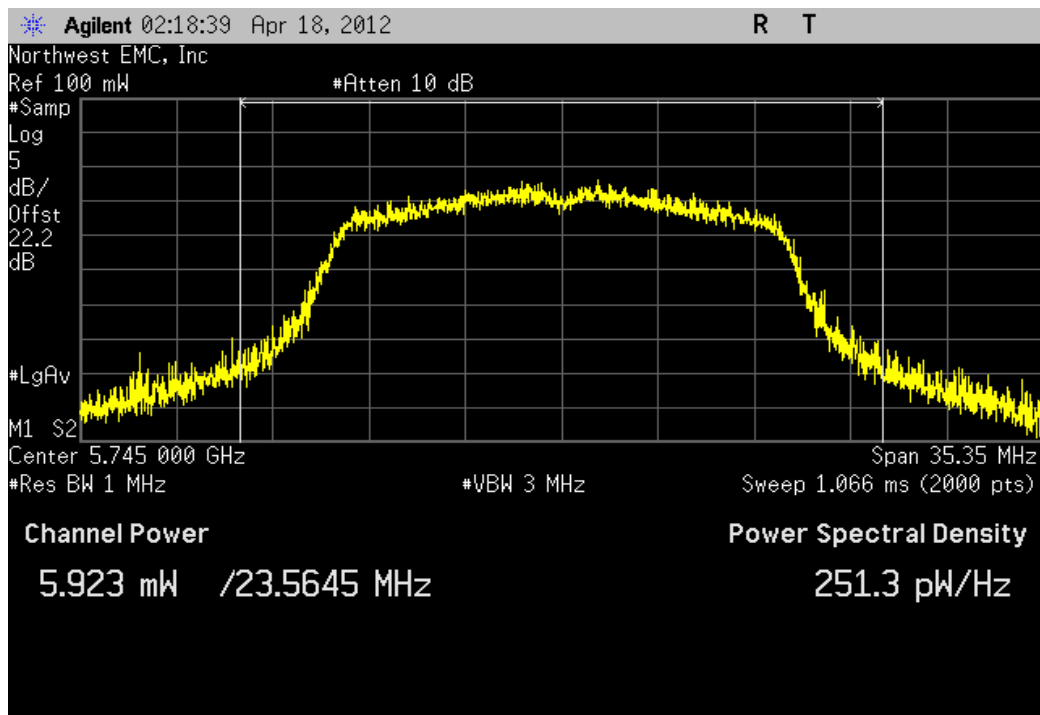
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	28.36 mW	< 1 W	Pass



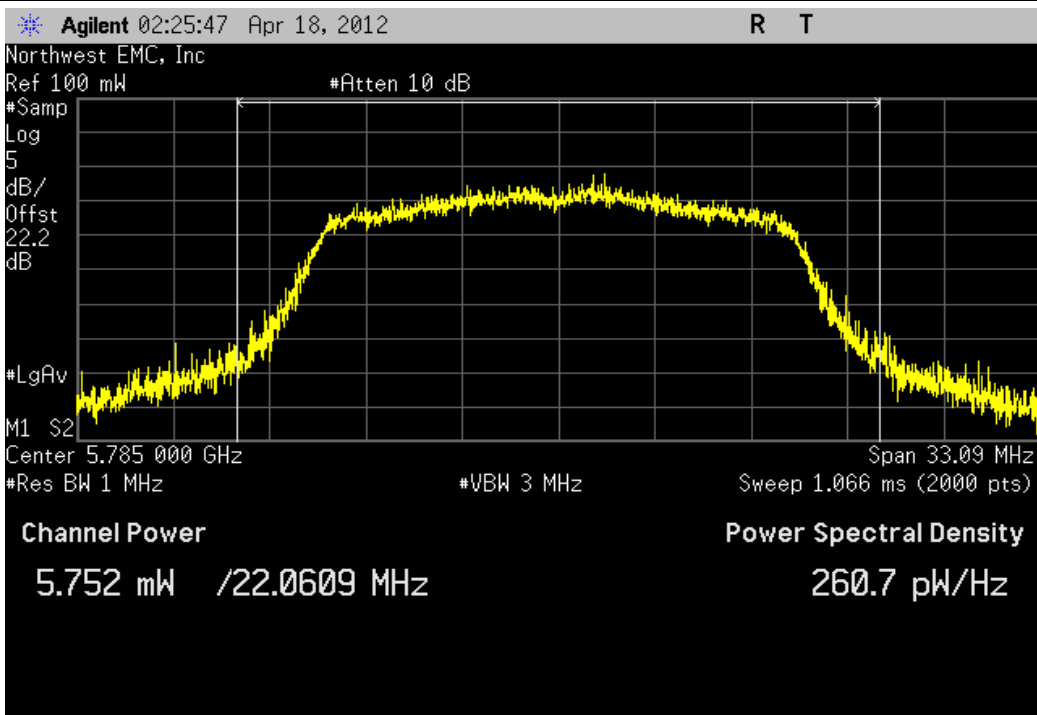
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

	Value	Limit	Result
	5.923 mW	< 1 W	Pass



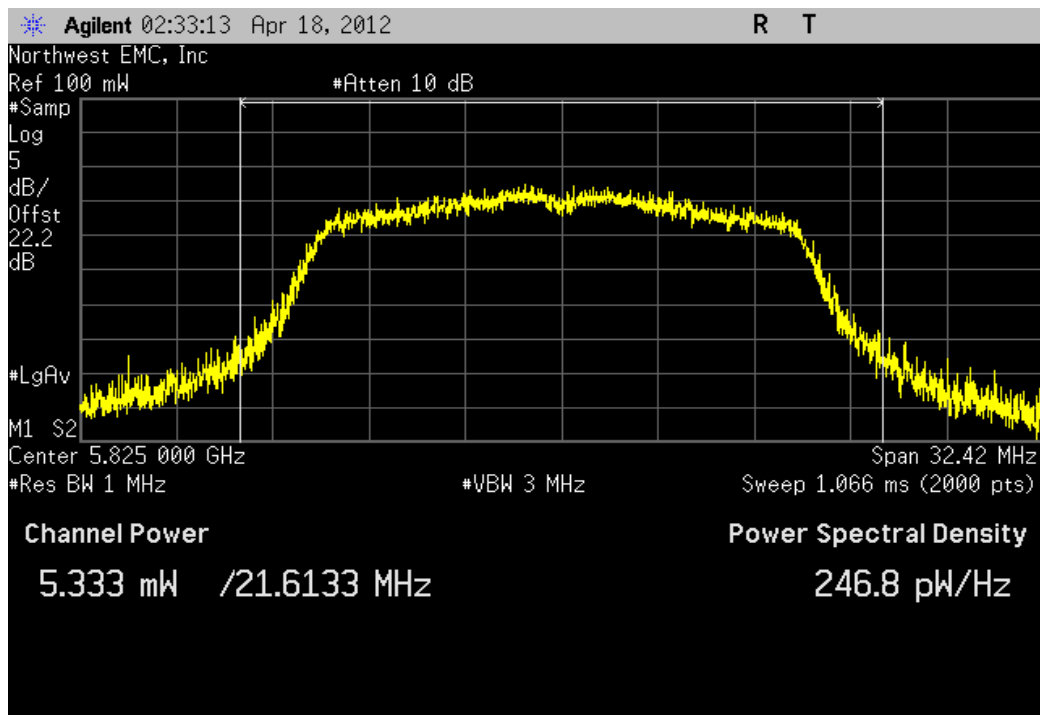
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

	Value	Limit	Result
	5.752 mW	< 1 W	Pass



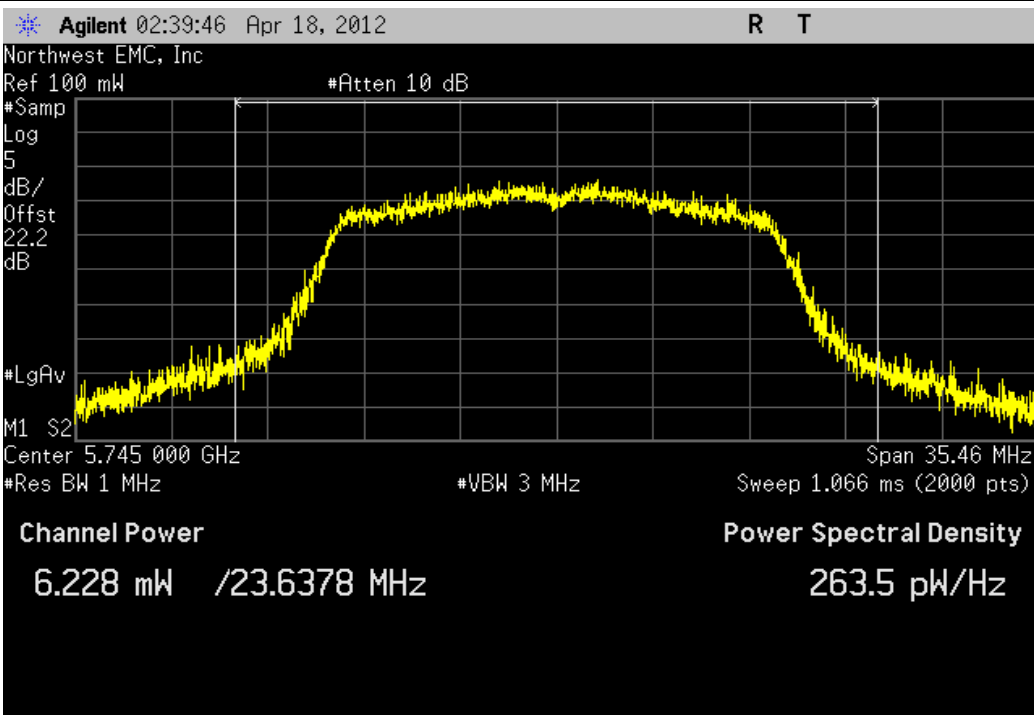
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

	Value	Limit	Result
	5.333 mW	< 1 W	Pass



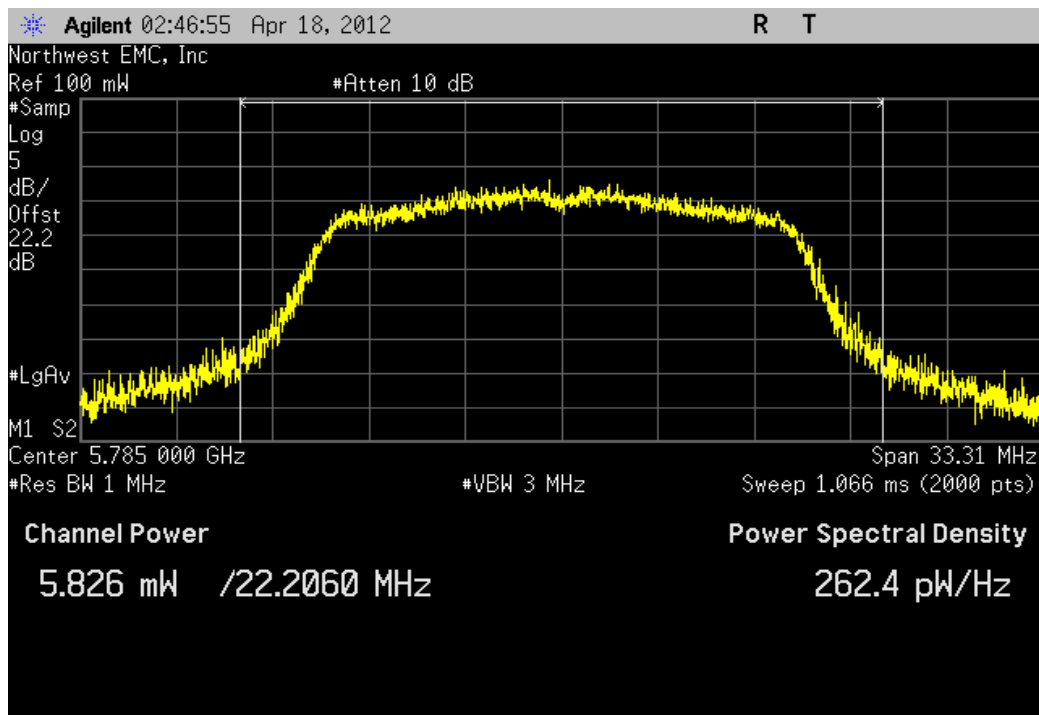
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
6.228 mW	< 1 W	Pass



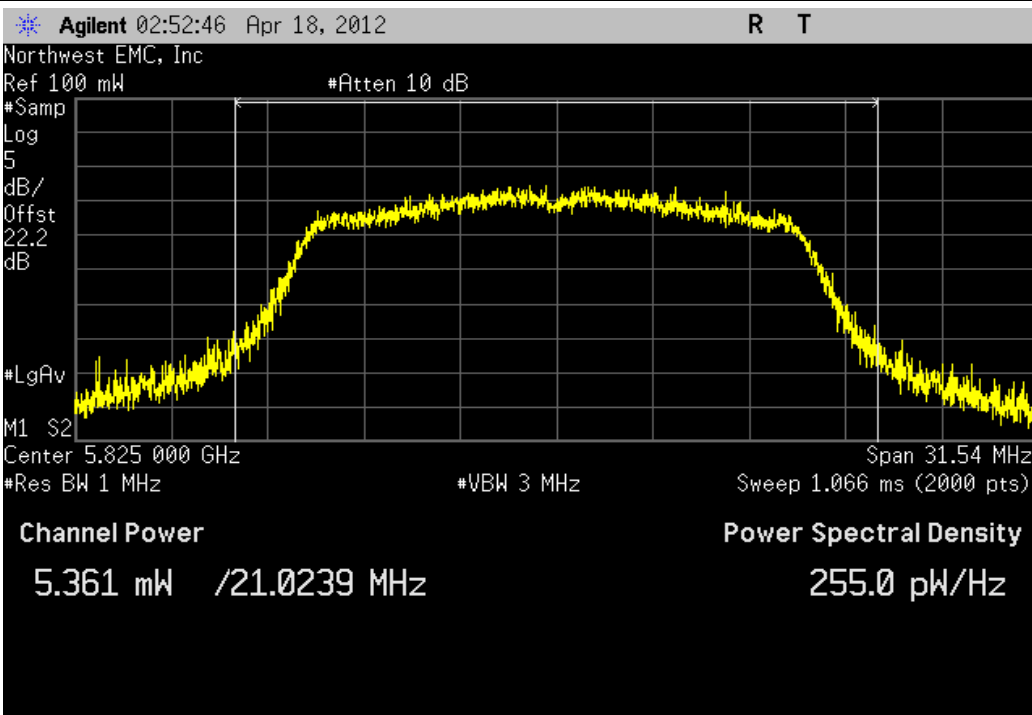
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
5.826 mW	< 1 W	Pass



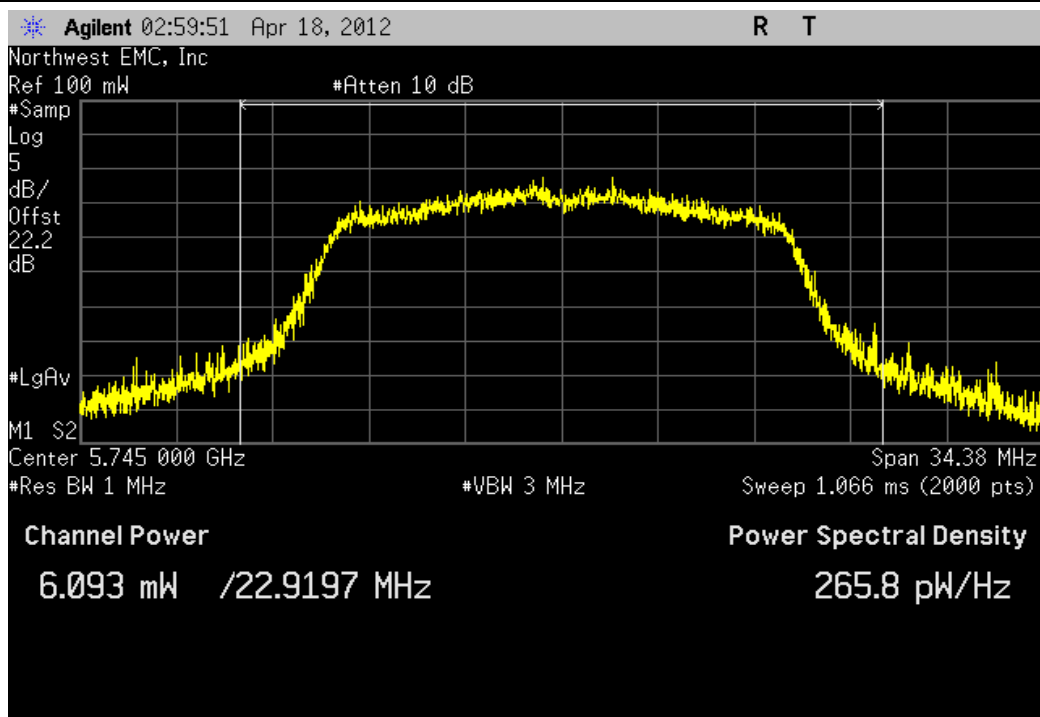
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
5.361 mW	< 1 W	Pass



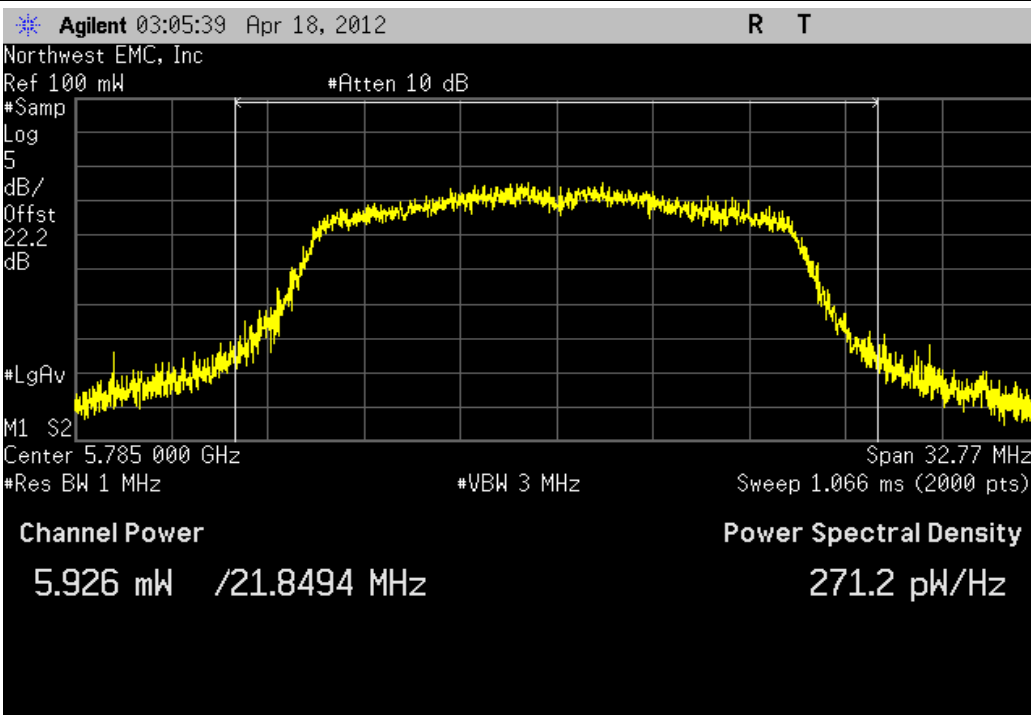
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
6.093 mW	< 1 W	Pass



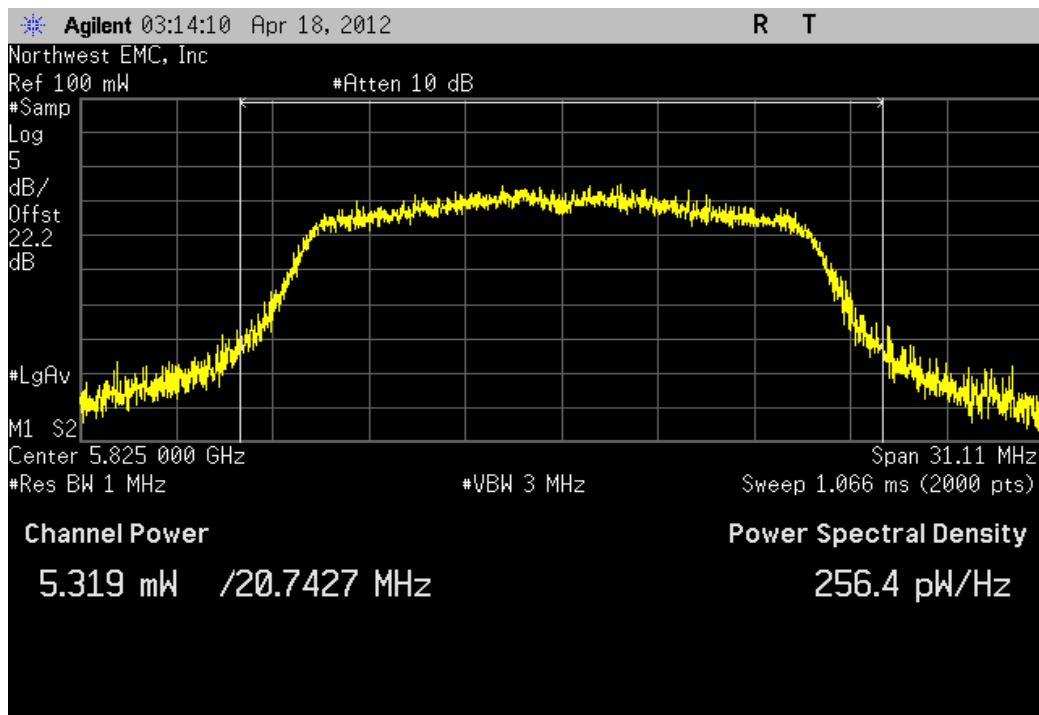
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

	Value	Limit	Result
	5.926 mW	< 1 W	Pass



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

	Value	Limit	Result
	5.319 mW	< 1 W	Pass



Output Power

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band, at each of the required data rates. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

- Prior to measuring peak transmit power; the emission bandwidth (B) was measured.
- Power was integrated across "B", by using the channel power function of the spectrum analyzer and its default bandwidths.



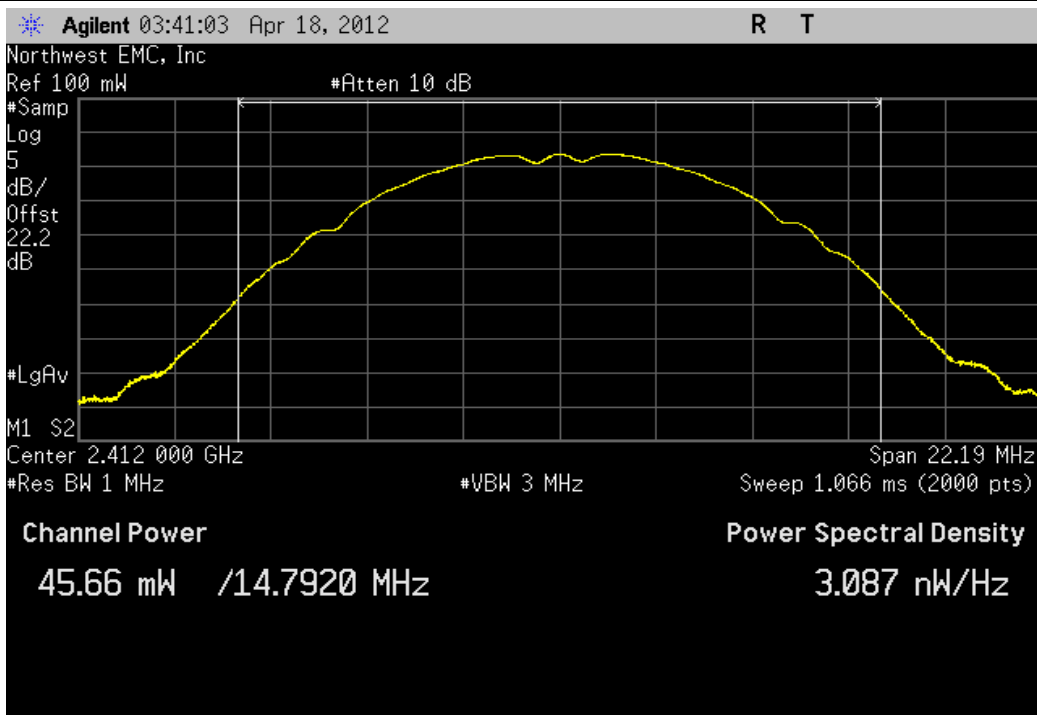
Output Power

XMit 2012.04.06
PsaTx 2012.01.25

EUT: RAD7CA		Work Order: MASI0095		
Serial Number: 34996 Rev C		Date: 04/27/12		
Customer: Masimo Corporation		Temperature: 22.84 C°C		
Attendees: none		Humidity: 38%		
Project: None		Barometric Pres.: 1014.4		
Tested by: Jaemi Suh		Power: 110VAC/60Hz		
		Job Site: OC10		
TEST SPECIFICATIONS				
FCC 15.247:2012		ANSI C63.10:2009		
COMMENTS				
Antenna Port 2. Power Level setting set to 99.				
DEVIATIONS FROM TEST STANDARD				
Configuration #	1	Signature 		
		Value	Limit	Result
2400 MHz - 2483.5 MHz Band				
802.11(b) 1 Mbps				
Low Channel 1, 2412 MHz		45.662 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		54.121 mW	< 1 W	Pass
High Channel 11, 2462 MHz		55.965 mW	< 1 W	Pass
802.11(b) 11 Mbps				
Low Channel 1, 2412 MHz		43.045 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		50.962 mW	< 1 W	Pass
High Channel 11, 2462 MHz		56.112 mW	< 1 W	Pass
802.11(g) 6 Mbps				
Low Channel 1, 2412 MHz		29.163 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		35.39 mW	< 1 W	Pass
High Channel 11, 2462 MHz		38.92 mW	< 1 W	Pass
802.11(g) 36 Mbps				
Low Channel 1, 2412 MHz		23.795 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		29.965 mW	< 1 W	Pass
High Channel 11, 2462 MHz		33.169 mW	< 1 W	Pass
802.11(g) 54 Mbps				
Low Channel 1, 2412 MHz		22.47 mW	< 1 W	Pass
Mid Channel 6, 2437 MHz		27.932 mW	< 1 W	Pass
High Channel 11, 2462 MHz		30.489 mW	< 1 W	Pass
5725 MHz - 5850 MHz Band				
802.11(a) 6 Mbps				
Low Channel 149, 5745 MHz		5.46 mW	< 1 W	Pass
Mid Channel 157, 5785 MHz		4.799 mW	< 1 W	Pass
High Channel 165, 5825 MHz		4.522 mW	< 1 W	Pass
802.11(a) 36 Mbps				
Low Channel 149, 5745 MHz		5.815 mW	< 1 W	Pass
Mid Channel 157, 5785 MHz		4.872 mW	< 1 W	Pass
High Channel 165, 5825 MHz		4.544 mW	< 1 W	Pass
802.11(a) 54 Mbps				
Low Channel 149, 5745 MHz		5.961 mW	< 1 W	Pass
Mid Channel 157, 5785 MHz		4.858 mW	< 1 W	Pass
High Channel 165, 5825 MHz		4.489 mW	< 1 W	Pass

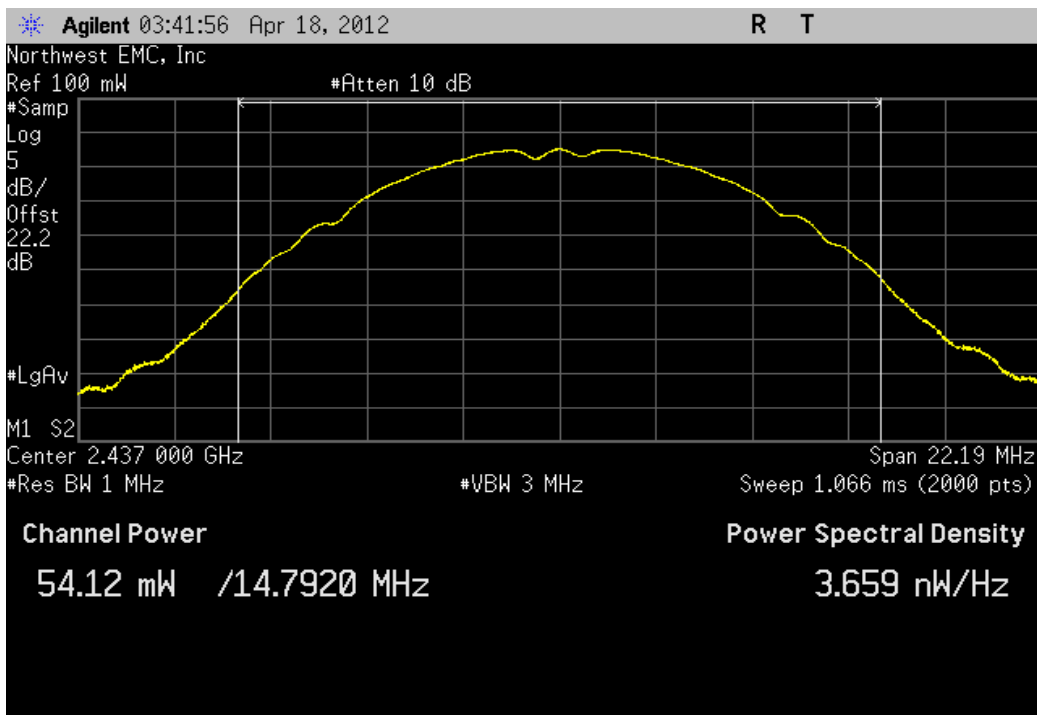
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
45.662 mW	< 1 W	Pass



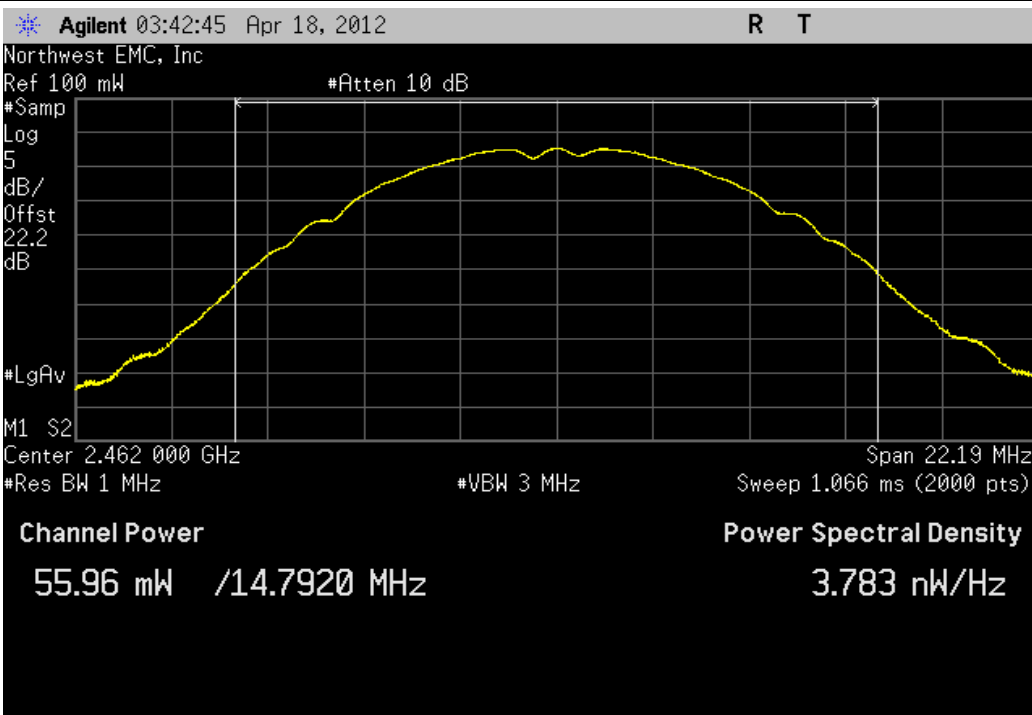
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
54.121 mW	< 1 W	Pass



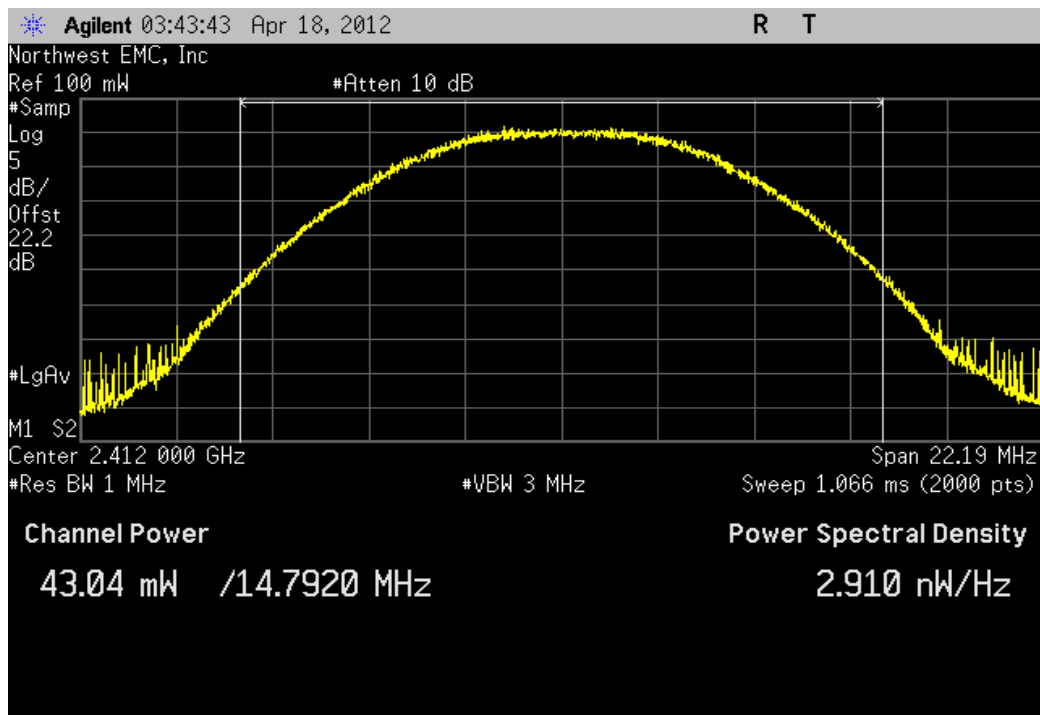
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
55.965 mW	< 1 W	Pass



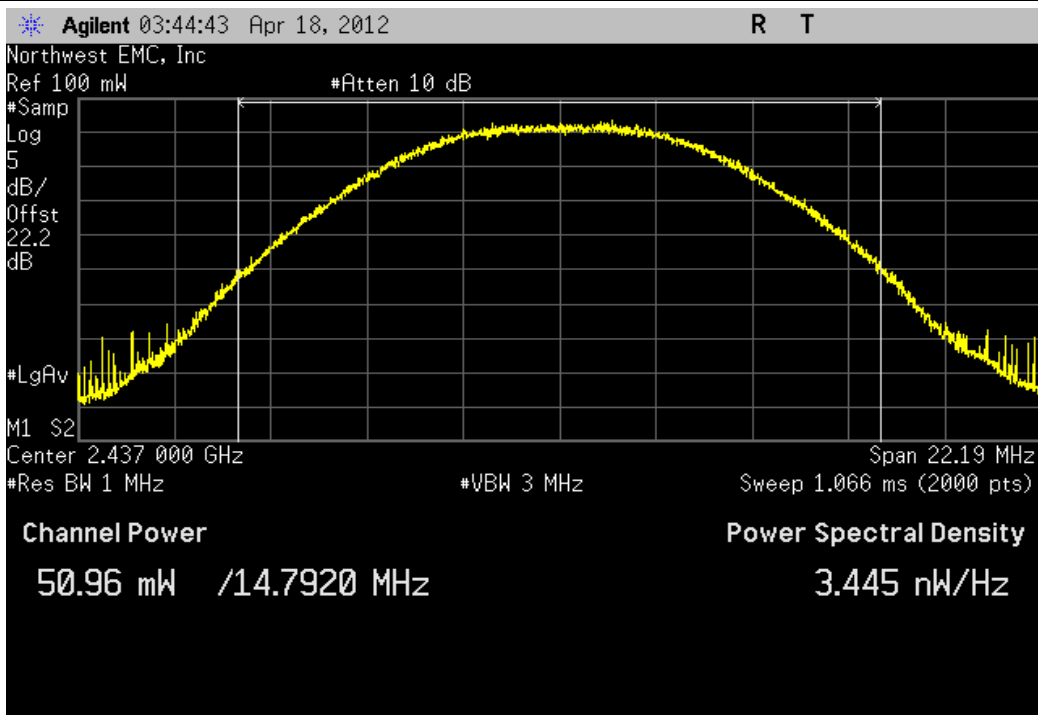
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
43.045 mW	< 1 W	Pass



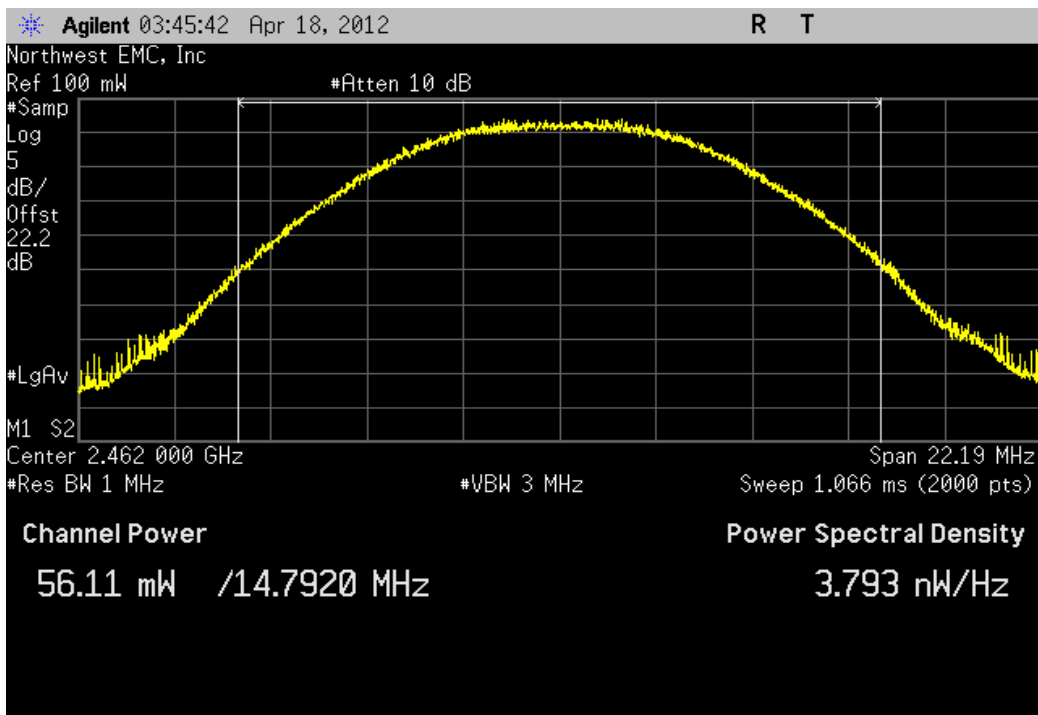
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
50.962 mW	< 1 W	Pass



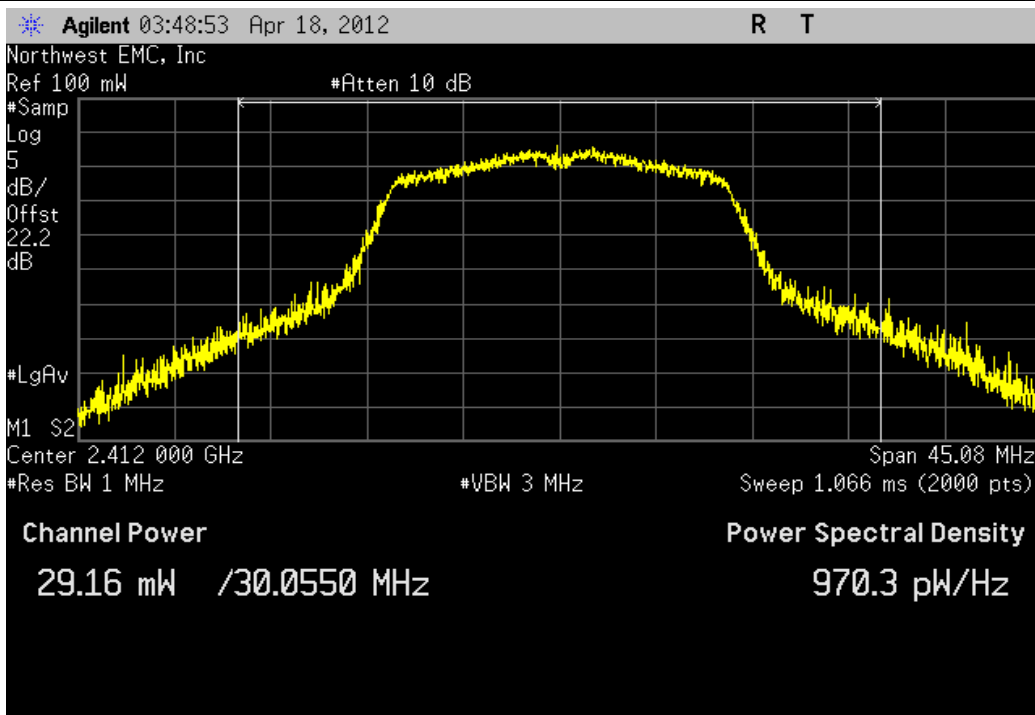
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
56.112 mW	< 1 W	Pass



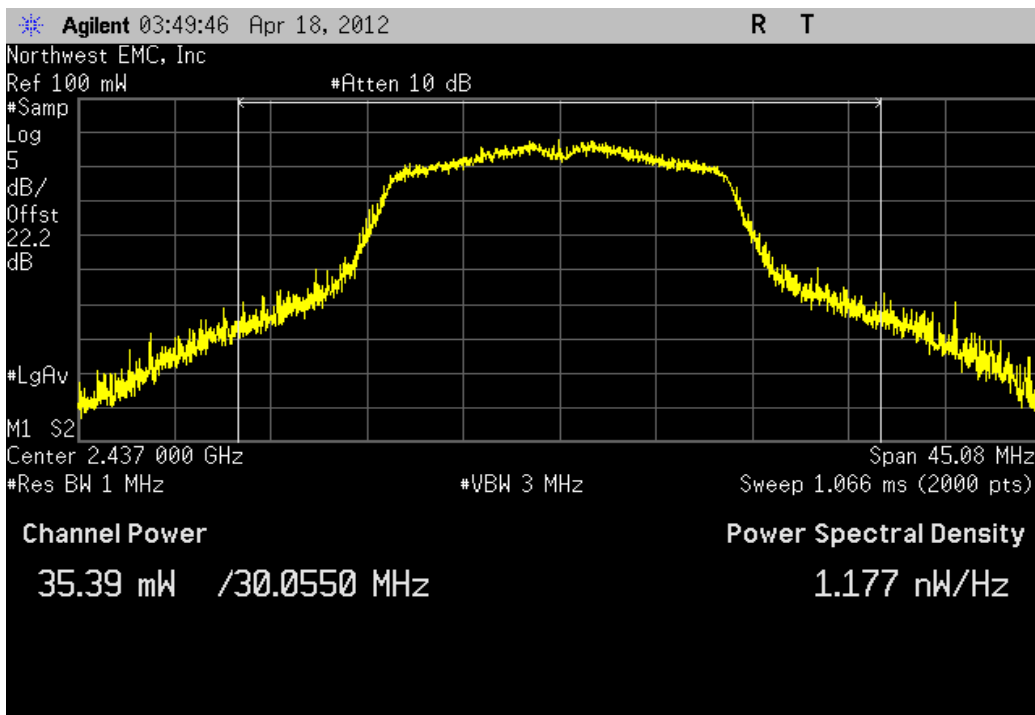
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
29.163 mW	< 1 W	Pass



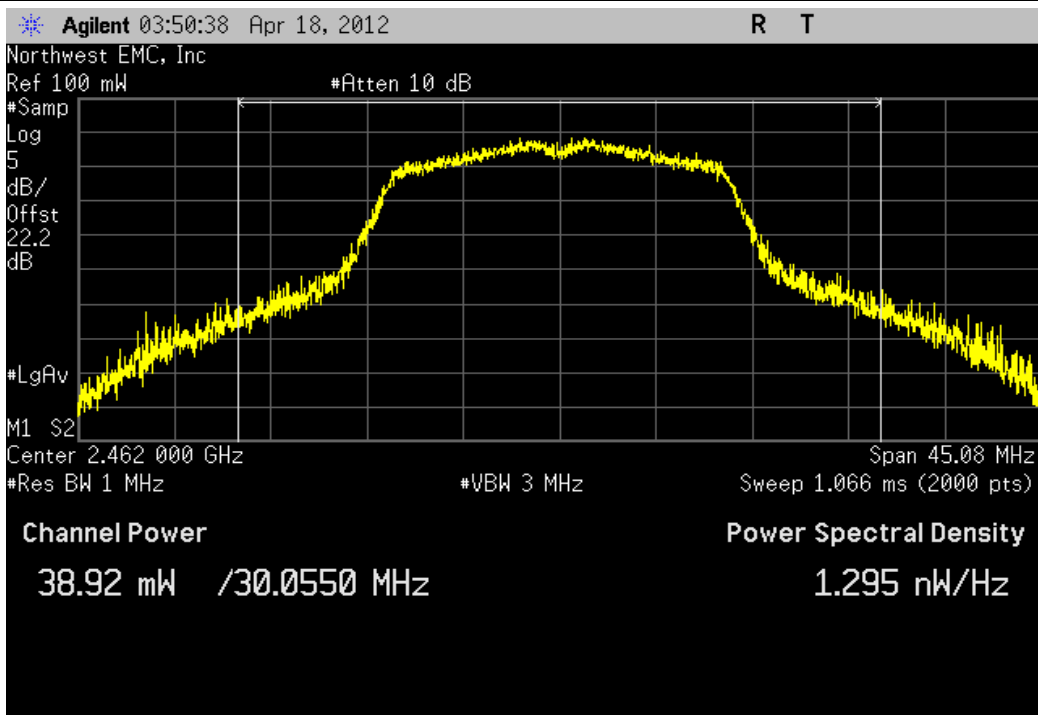
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
35.39 mW	< 1 W	Pass



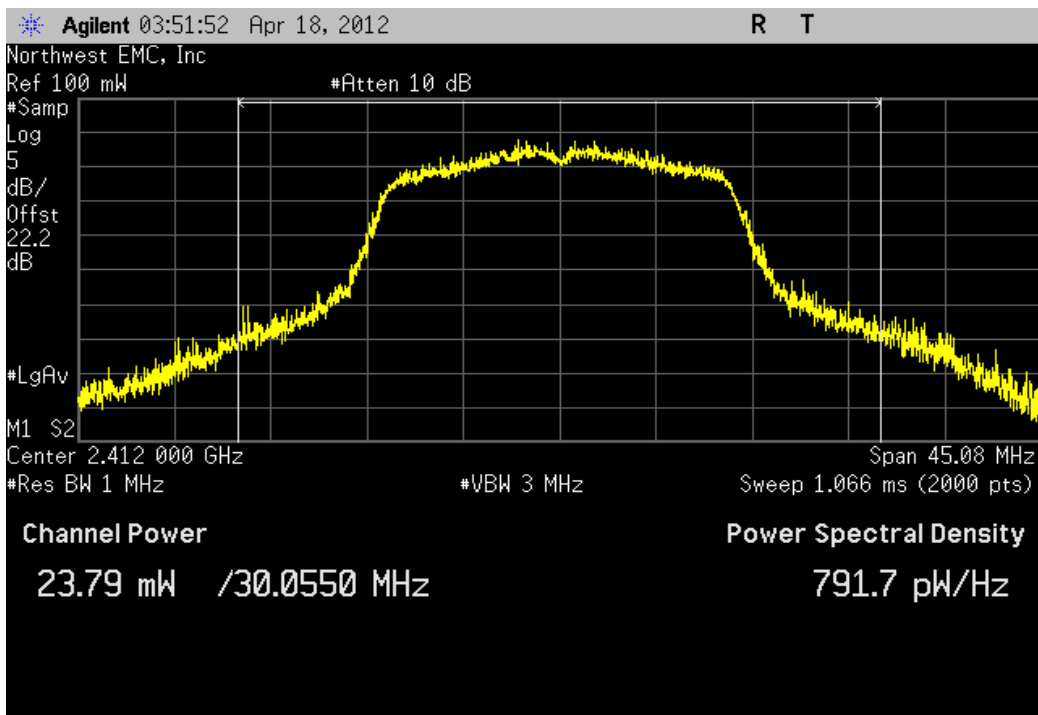
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
38.92 mW	< 1 W	Pass



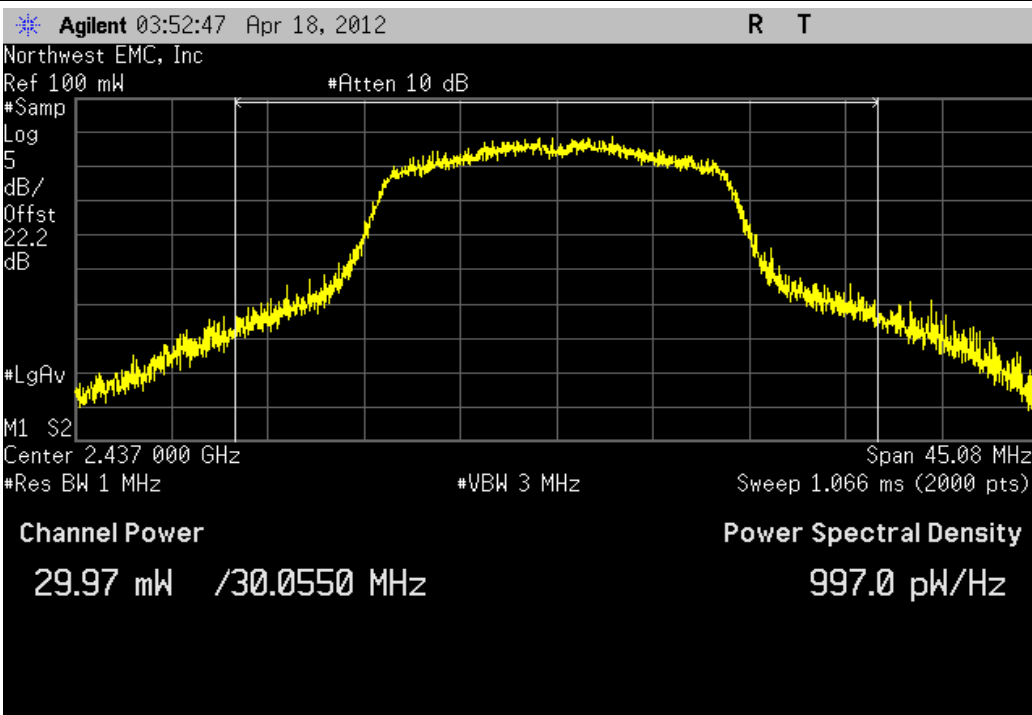
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
23.795 mW	< 1 W	Pass



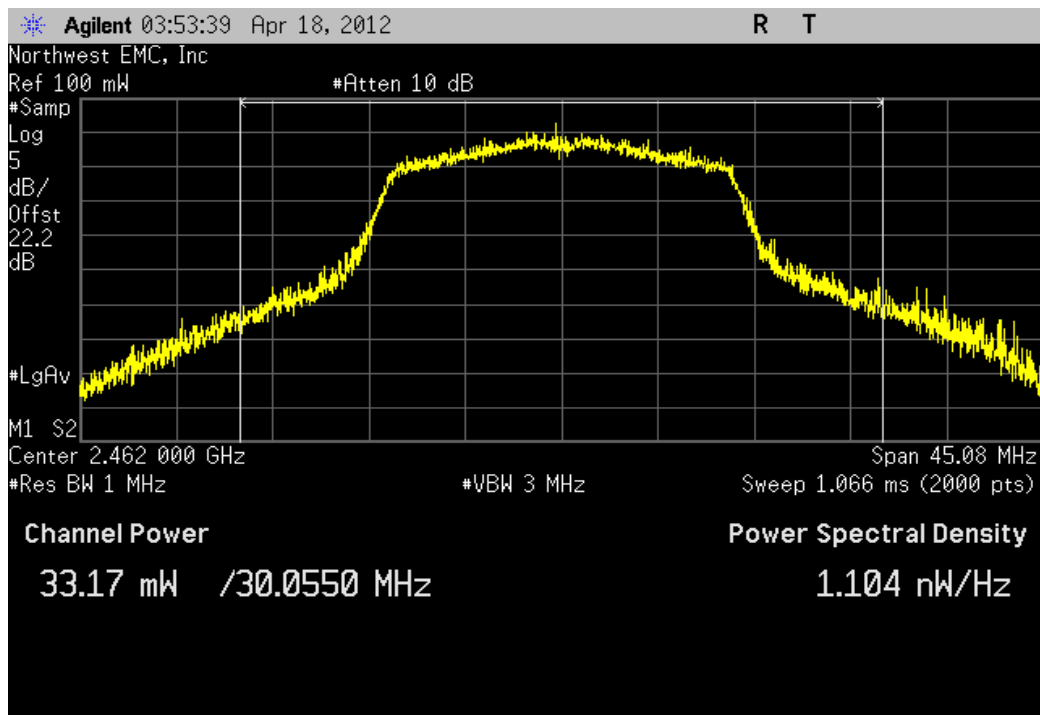
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

Value	Limit	Result
29.965 mW	< 1 W	Pass



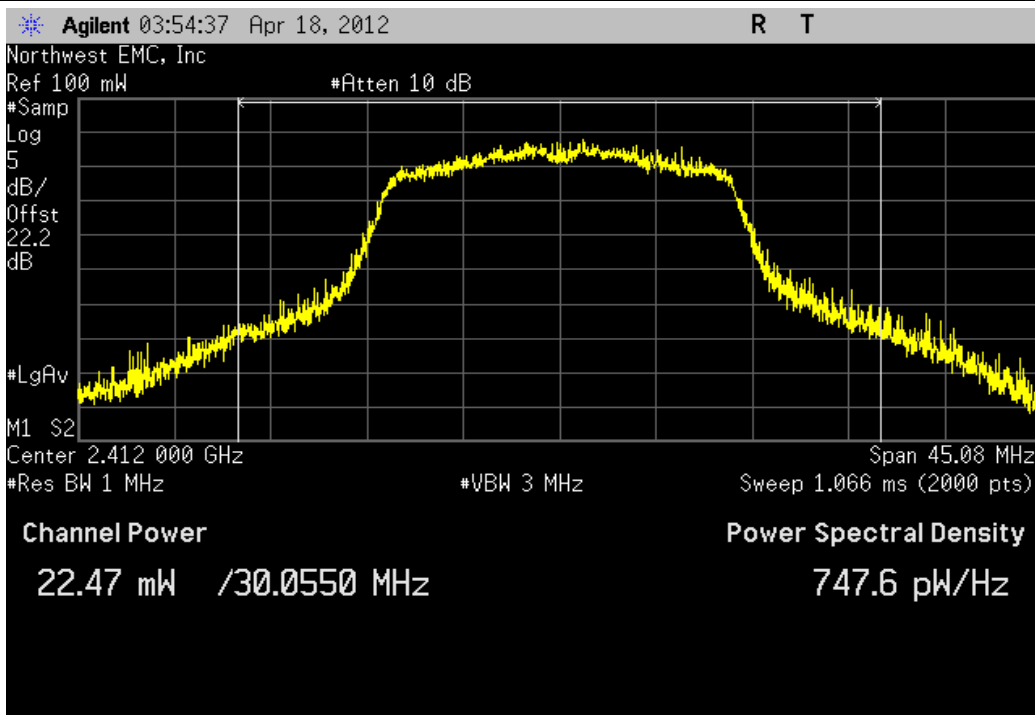
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
33.169 mW	< 1 W	Pass



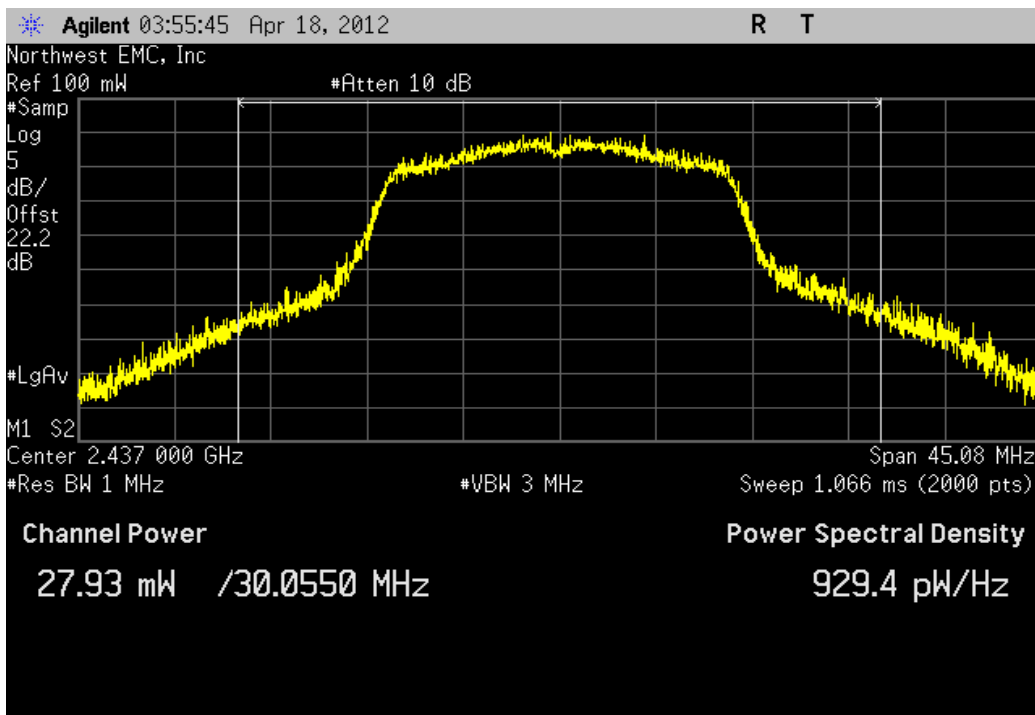
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				22.47 mW	< 1 W	Pass



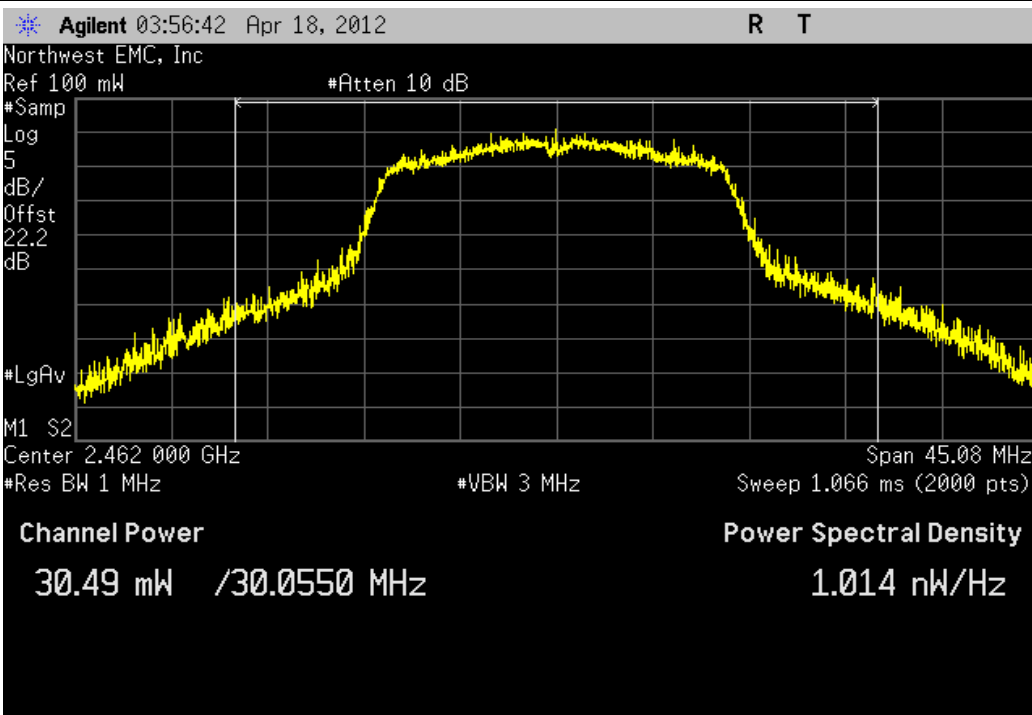
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				27.932 mW	< 1 W	Pass



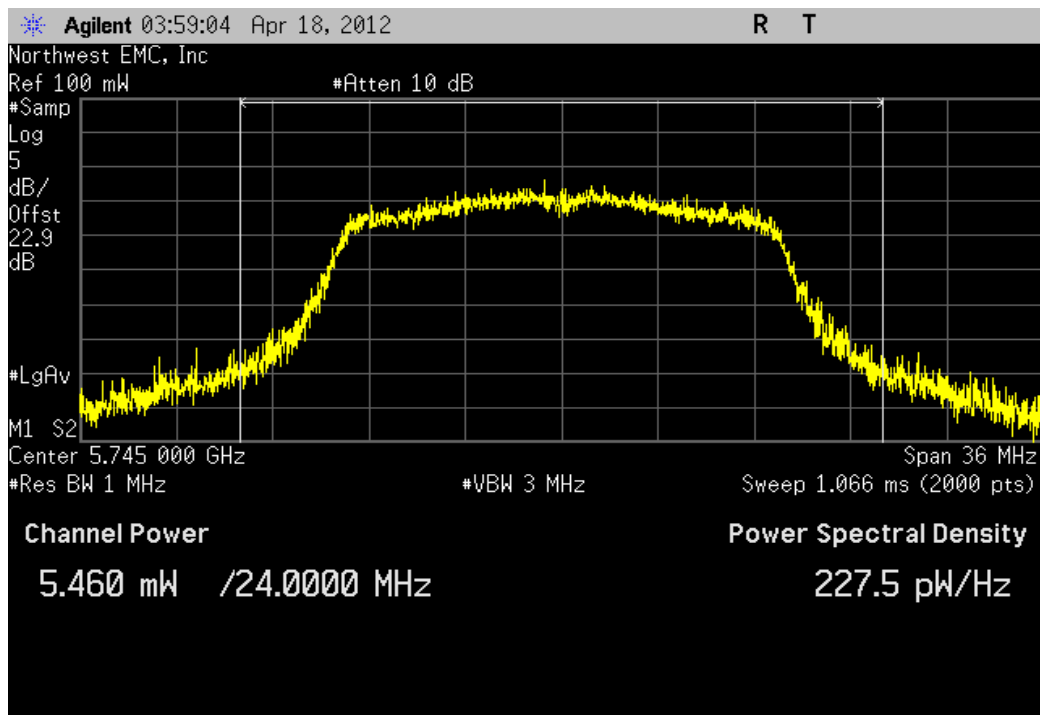
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
30.489 mW	< 1 W	Pass



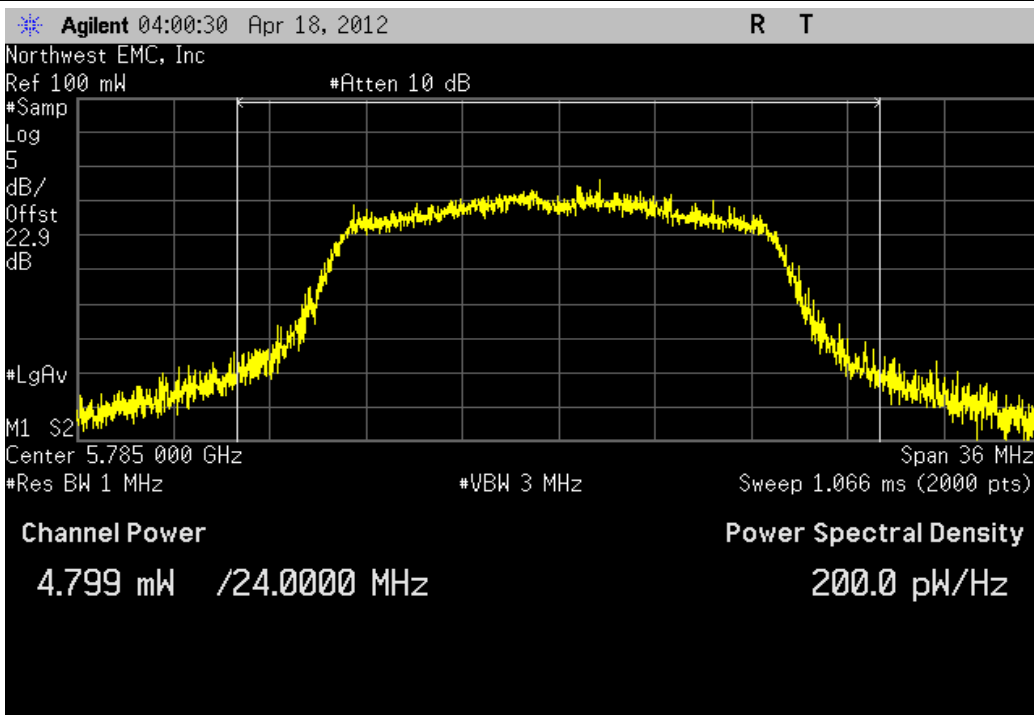
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
5.46 mW	< 1 W	Pass



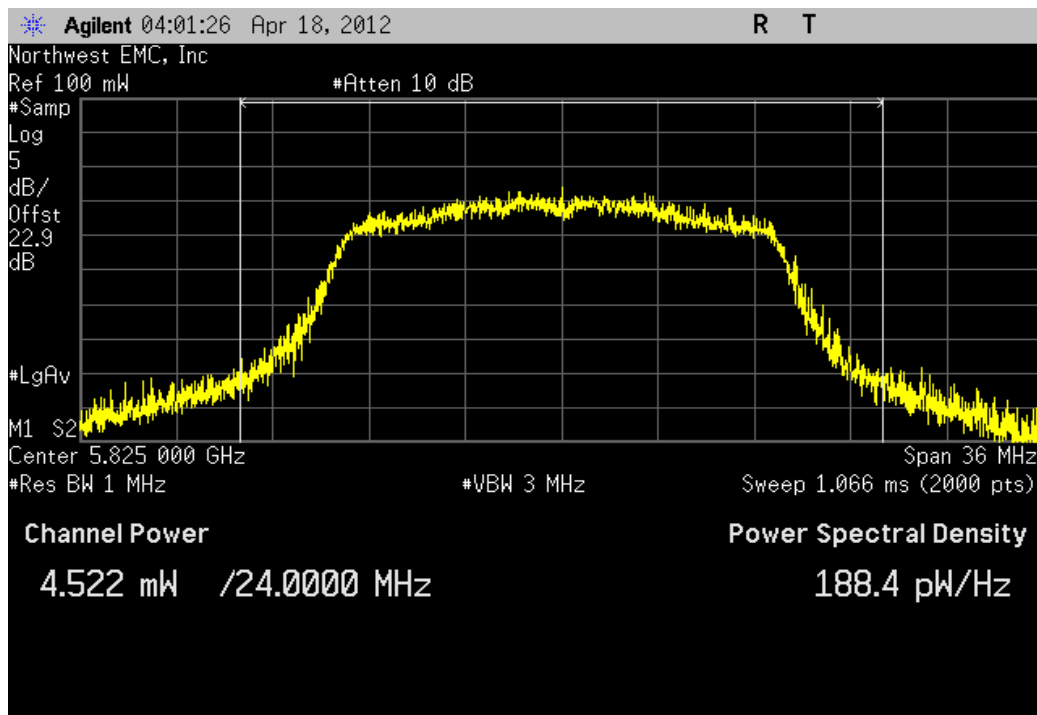
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
4.799 mW	< 1 W	Pass



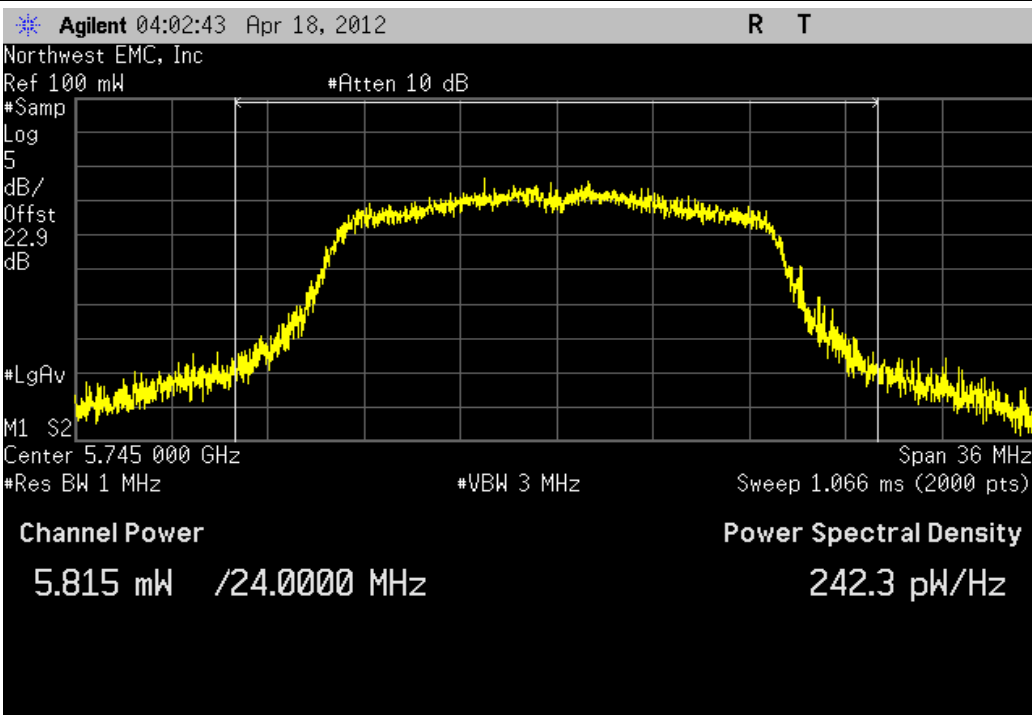
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
4.522 mW	< 1 W	Pass



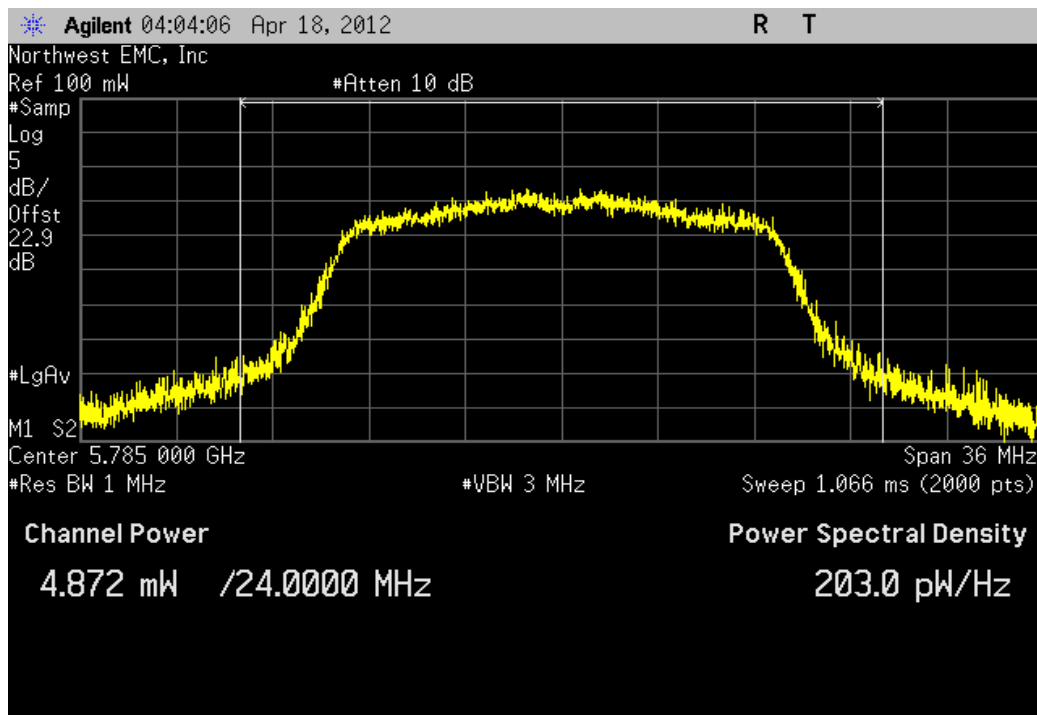
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
5.815 mW	< 1 W	Pass



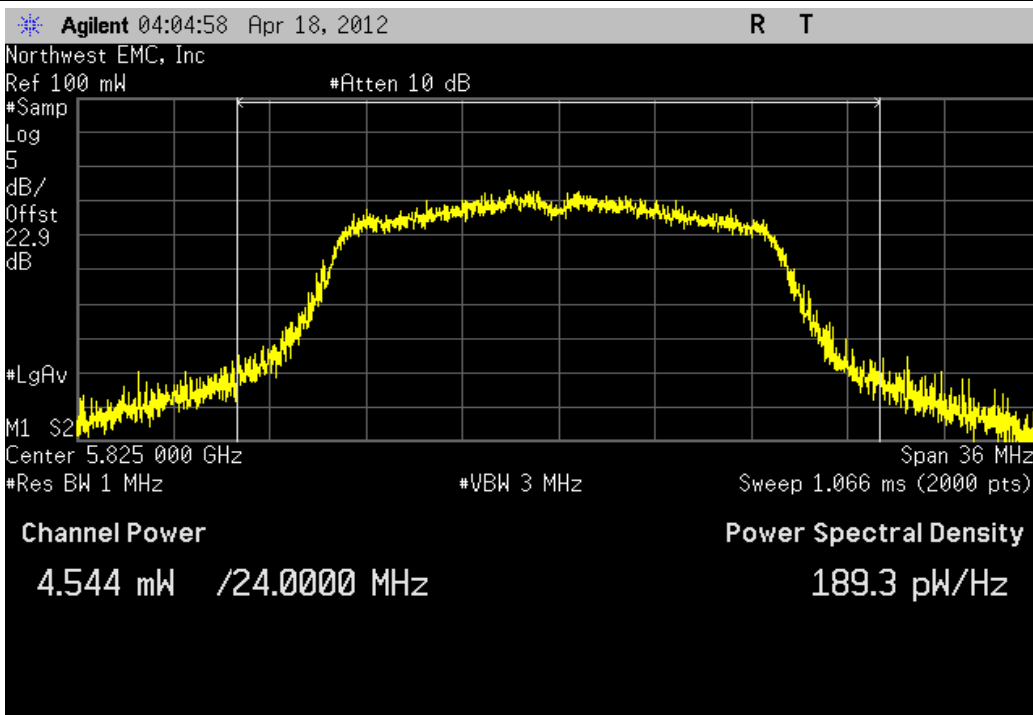
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

Value	Limit	Result
4.872 mW	< 1 W	Pass



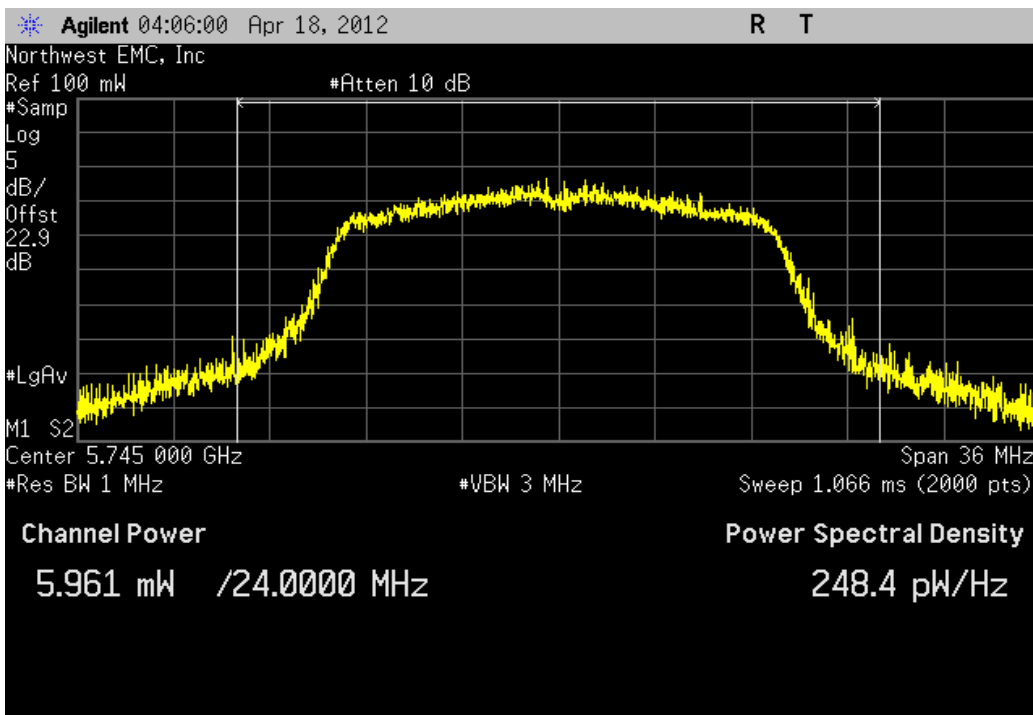
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
4.544 mW	< 1 W	Pass



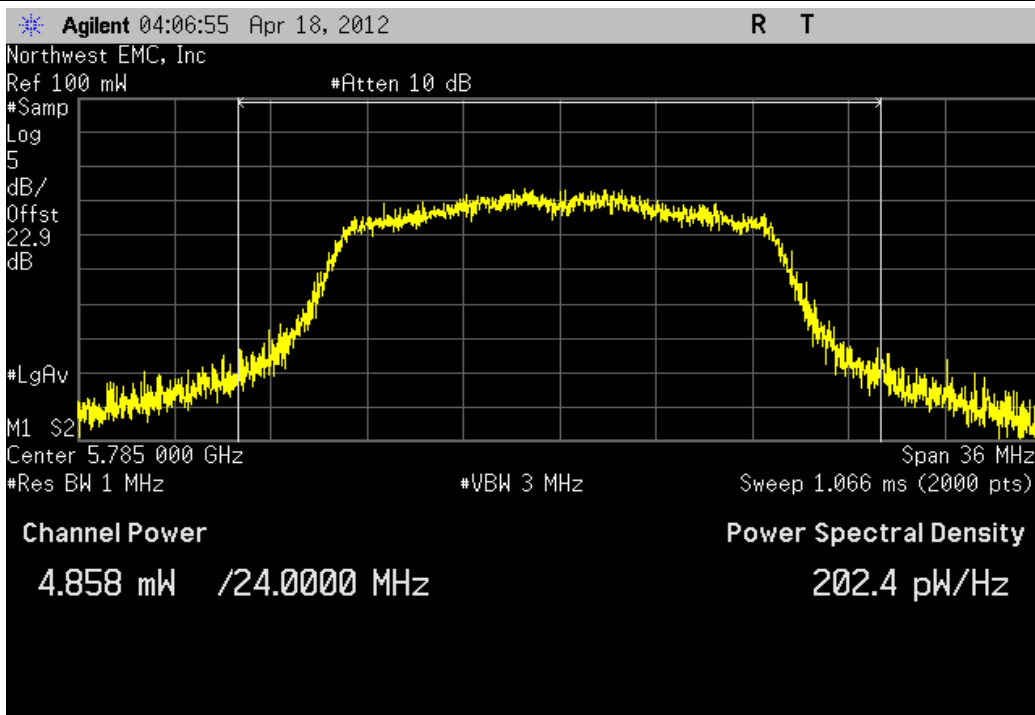
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
5.961 mW	< 1 W	Pass



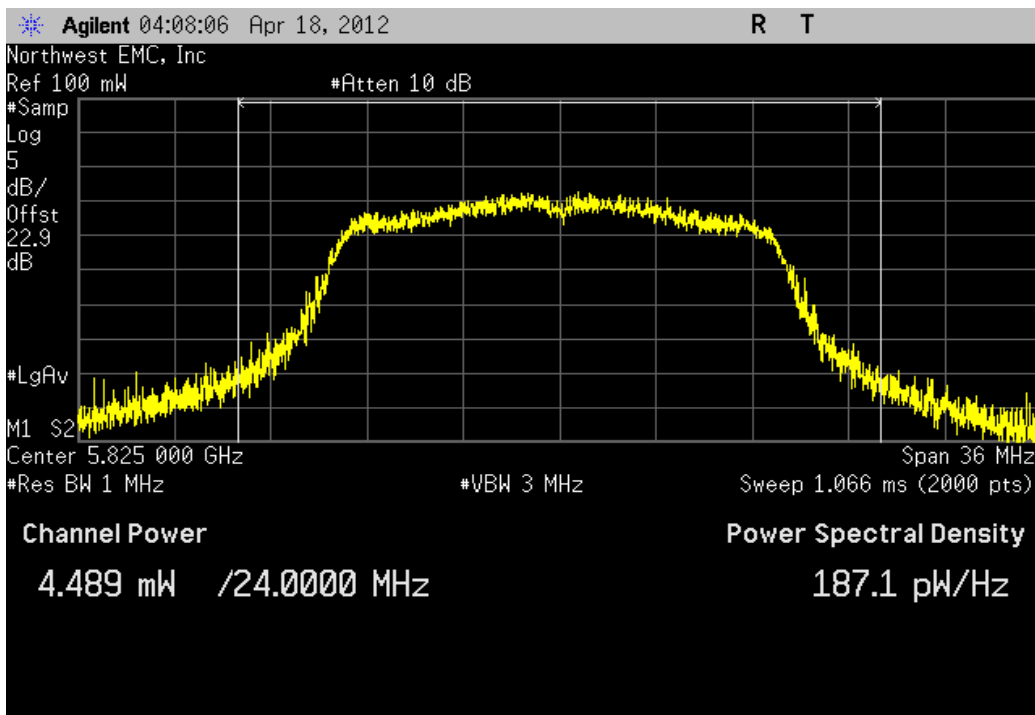
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				4.858 mW	< 1 W	Pass



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

				Value	Limit	Result
				4.489 mW	< 1 W	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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

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 the ISM 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 required data rates available in 802.11(a)/(b)/(g).

The spectrum was scanned across each band edge from 30 MHz below the band edge to 30 MHz above the band edge.



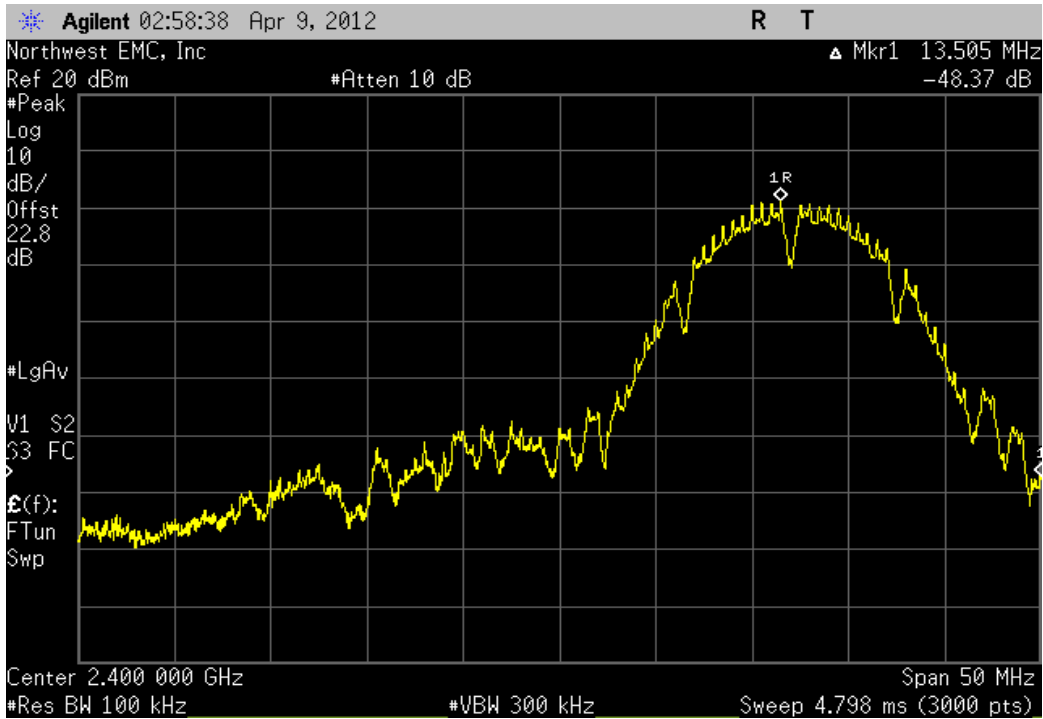
Band Edge Compliance

XMit 2012.04.06
PsaTx 2012.01.25

EUT: RAD7CA		Work Order: MASI0095	
Serial Number: 34996 Rev C		Date: 04/18/12	
Customer: Masimo Corporation		Temperature: 22.84 C°C	
Attendees: None		Humidity: 38%	
Project: None		Barometric Pres.: 1014.4	
Tested by: Mark Baytan		Power: 110VAC/60Hz	
		Job Site: OC07	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2012		ANSI C63.10:2009	
COMMENTS			
Power Setting = 99. Port 2			
DEVIATIONS FROM TEST STANDARD			
No Deviations			
Configuration #	1	Signature 	
		Value	Limit
2400 MHz - 2483.5 MHz Band			Result
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz		-48.37 dBc	≤ -20 dBc
High Channel 11, 2462 MHz		-47.36 dBc	≤ -20 dBc
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz		-43.76 dBc	≤ -20 dBc
High Channel 11, 2462 MHz		-48.64 dBc	≤ -20 dBc
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz		-26.98 dBc	≤ -20 dBc
High Channel 11, 2462 MHz		-34.49 dBc	≤ -20 dBc
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz		-27.12 dBc	≤ -20 dBc
High Channel 11, 2462 MHz		-34.43 dBc	≤ -20 dBc
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz		-27.54 dBc	≤ -20 dBc
High Channel 11, 2462 MHz		-34.36 dBc	≤ -20 dBc
5725 MHz - 5850 MHz Band			
802.11(a) 6 Mbps			
Low Channel 149, 5745 MHz		-37.95 dBc	≤ -20 dBc
High Channel 165, 5825 MHz		-40.48 dBc	≤ -20 dBc
802.11(a) 36 Mbps			
Low Channel 149, 5745 MHz		-37.89 dBc	≤ -20 dBc
High Channel 165, 5825 MHz		-40.27 dBc	≤ -20 dBc
802.11(a) 54 Mbps			
Low Channel 149, 5745 MHz		-38.13 dBc	≤ -20 dBc
High Channel 165, 5825 MHz		-41.2 dBc	≤ -20 dBc

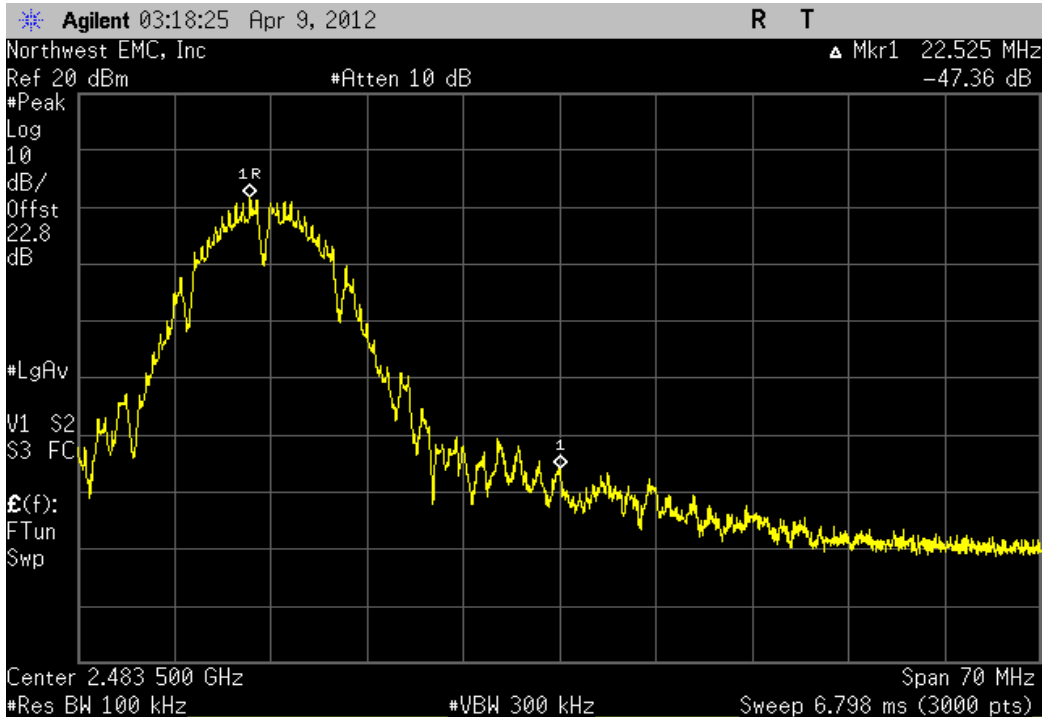
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-48.37 dBc	≤ -20 dBc	Pass



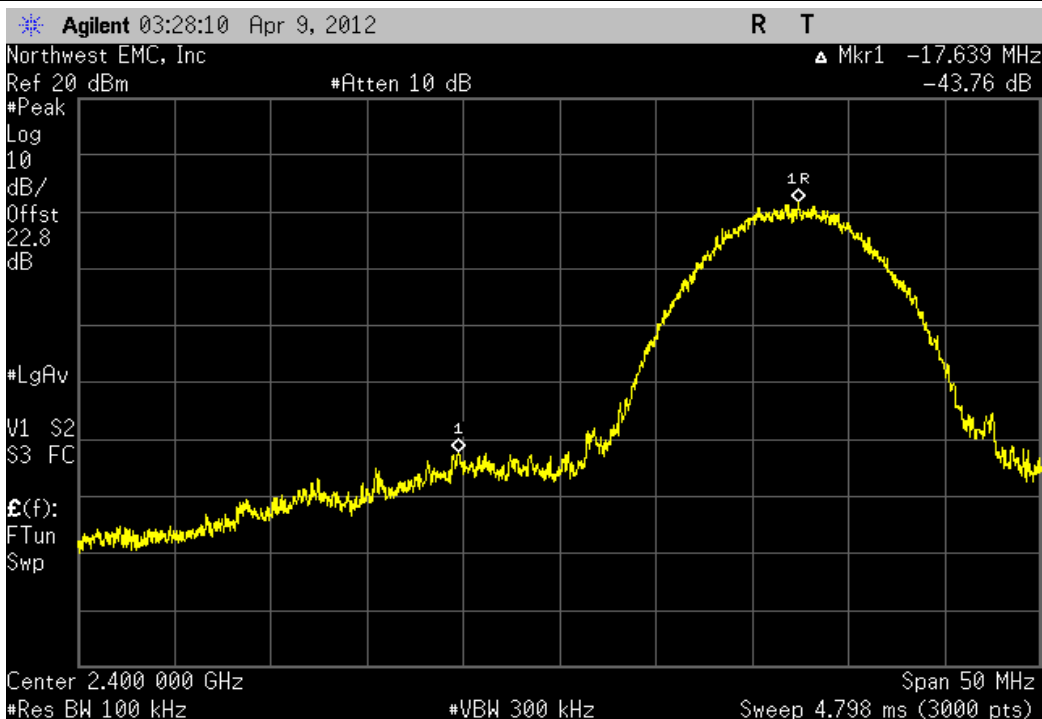
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-47.36 dBc	≤ -20 dBc	Pass



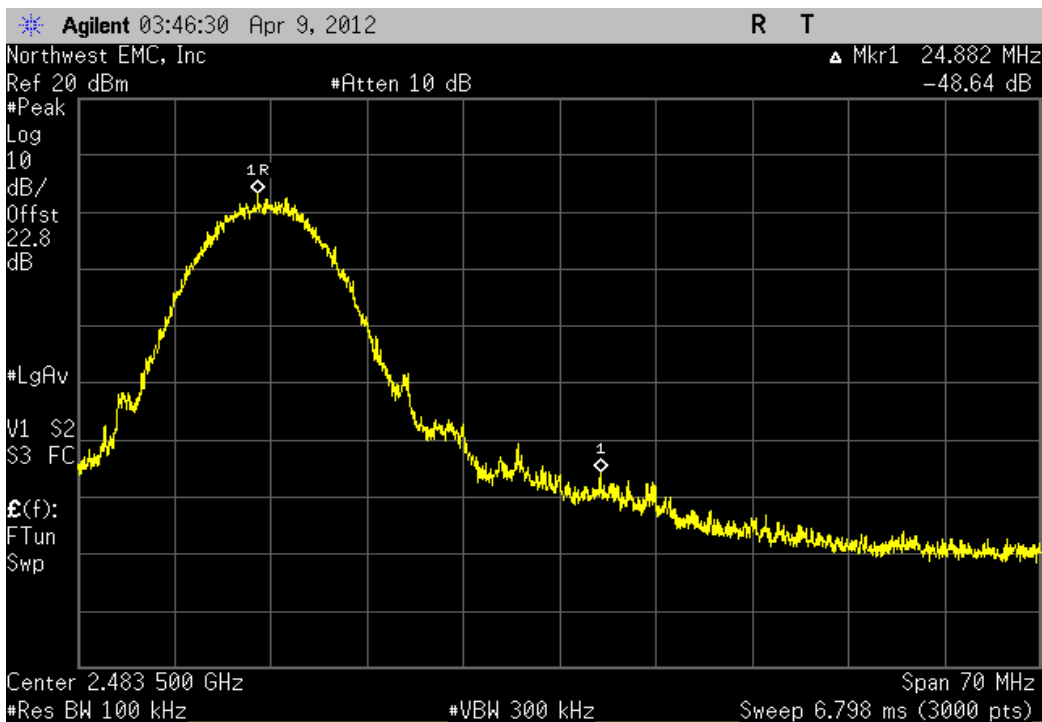
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-43.76 dBc	≤ -20 dBc	Pass



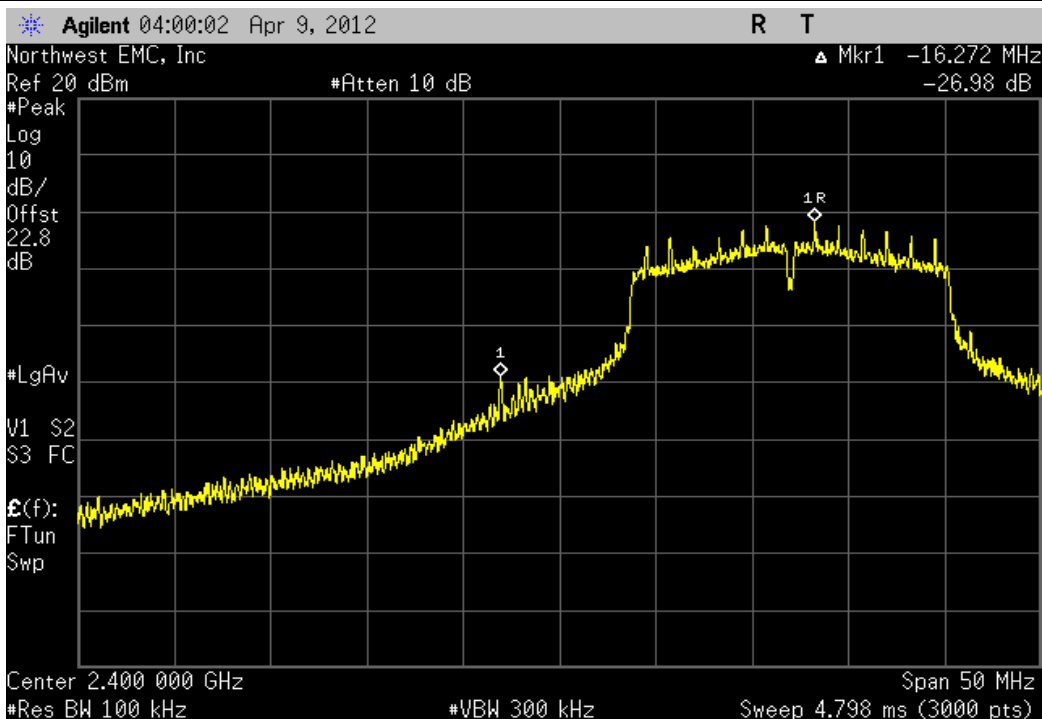
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-48.64 dBc	≤ -20 dBc	Pass



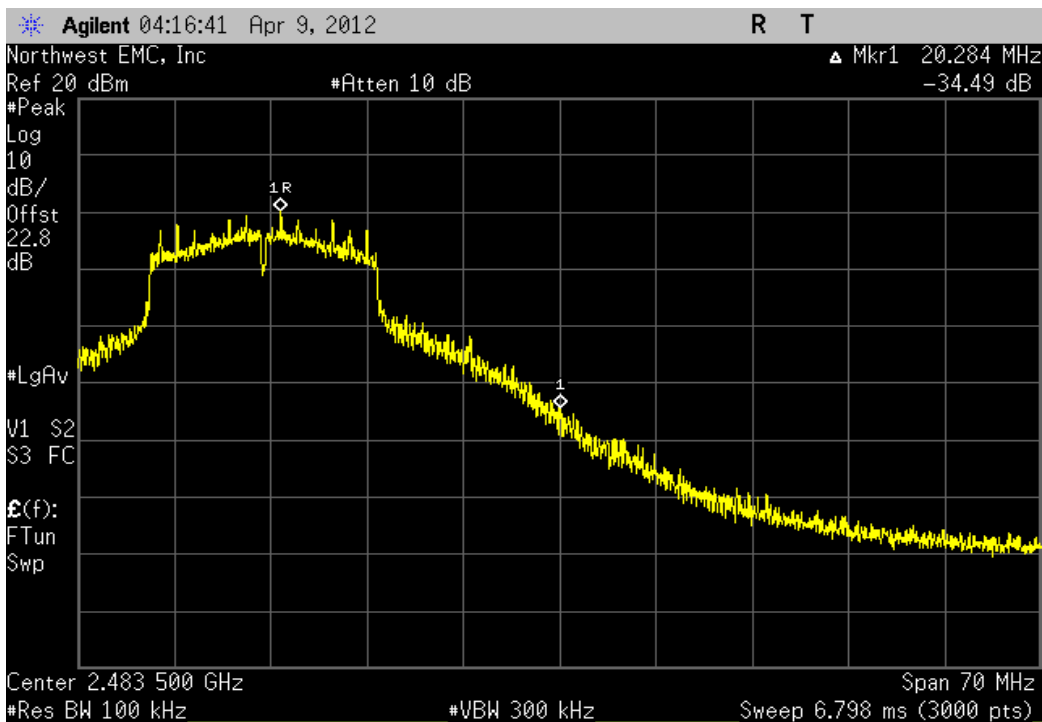
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	-26.98 dBc	≤ -20 dBc	Pass



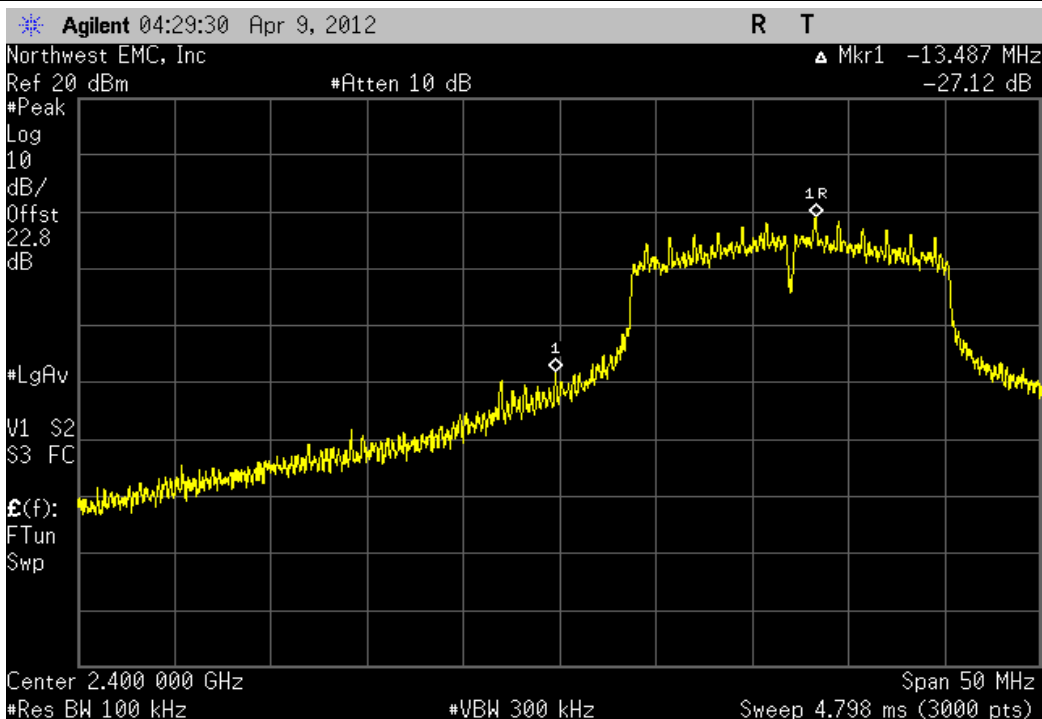
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	-34.49 dBc	≤ -20 dBc	Pass



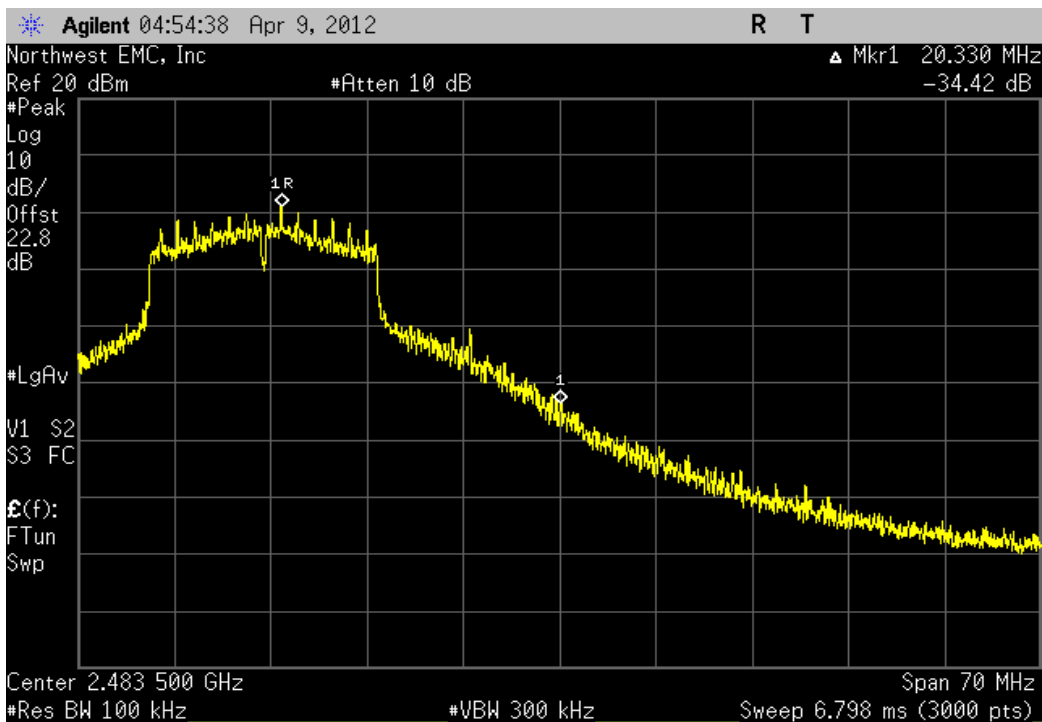
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-27.12 dBc	≤ -20 dBc	Pass



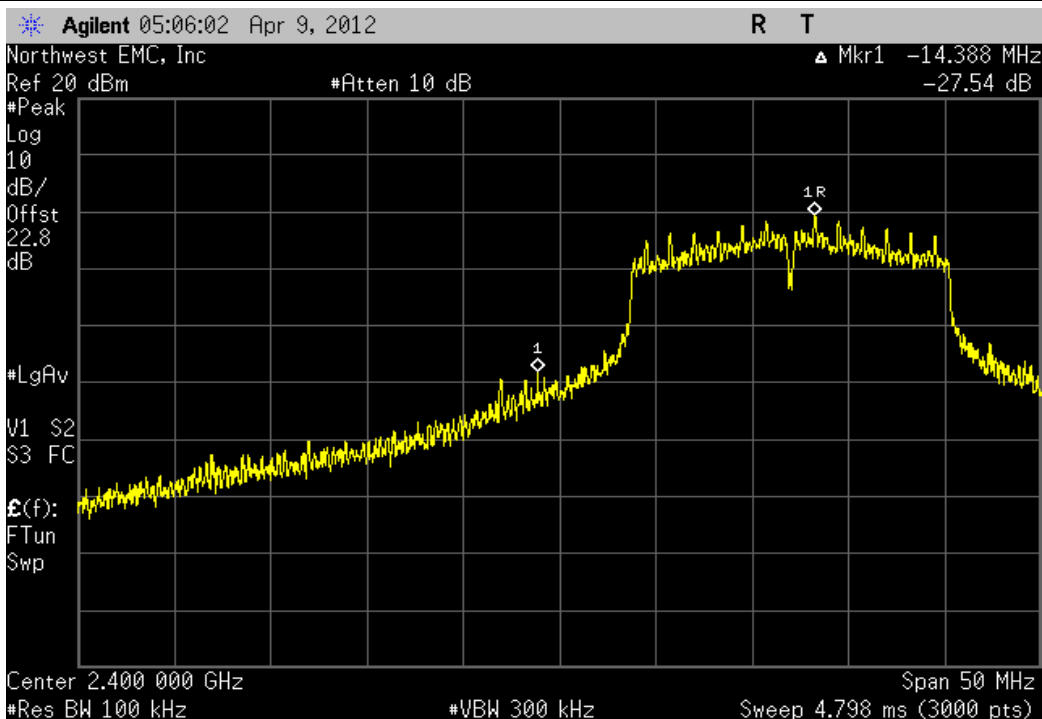
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-34.43 dBc	≤ -20 dBc	Pass



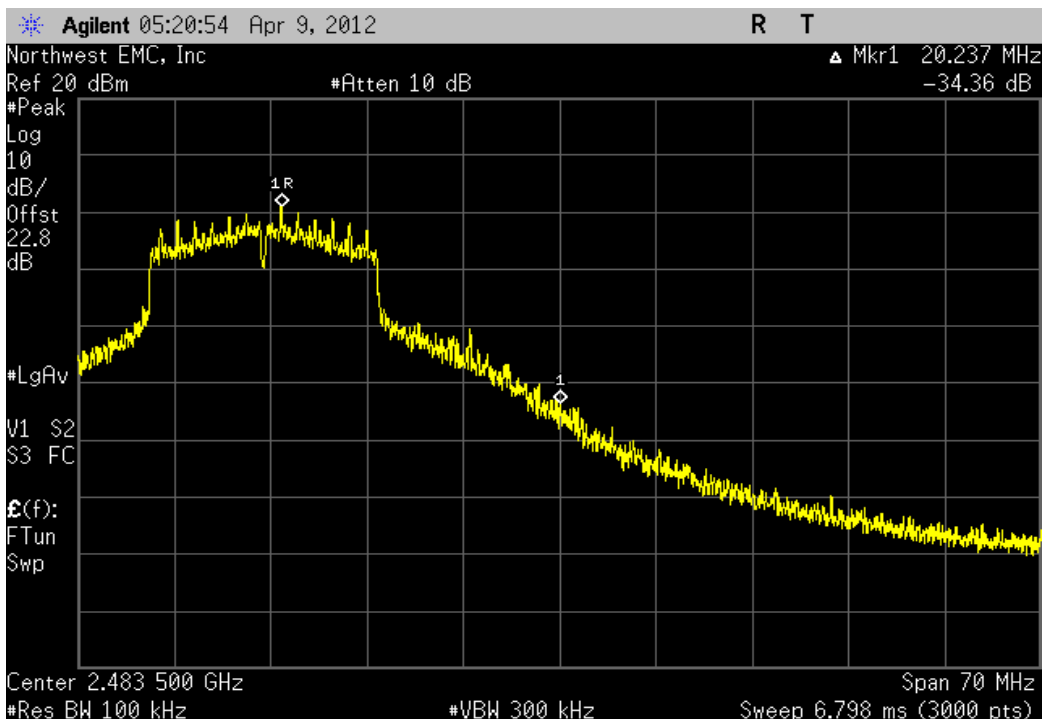
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	-27.54 dBc	≤ -20 dBc	Pass



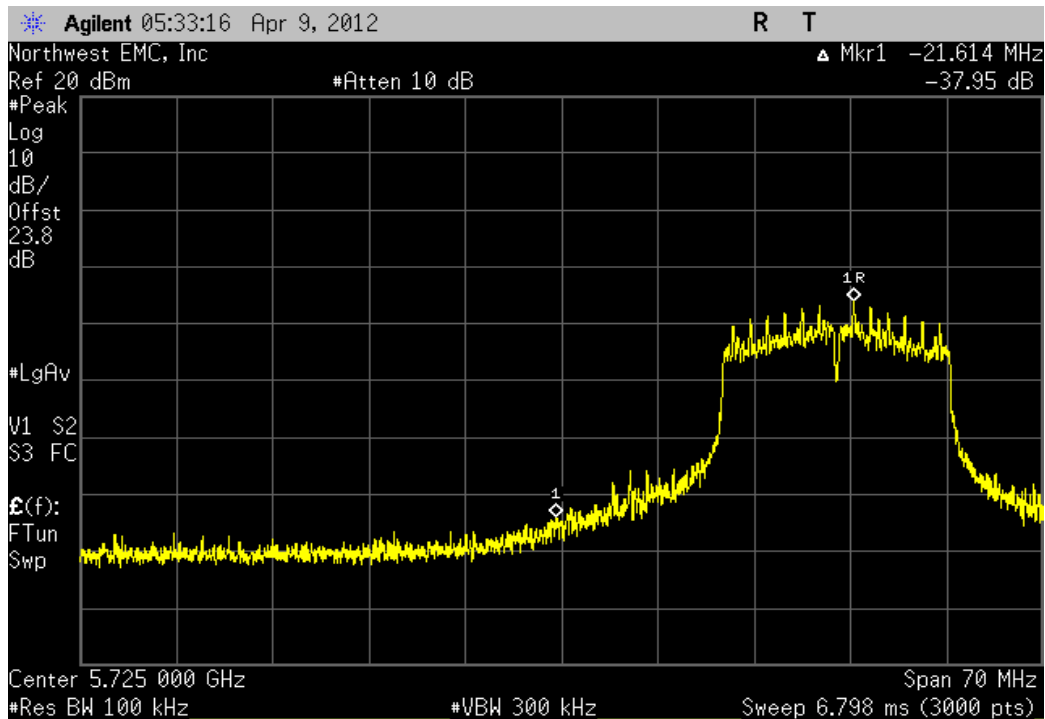
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

	Value	Limit	Result
	-34.36 dBc	≤ -20 dBc	Pass



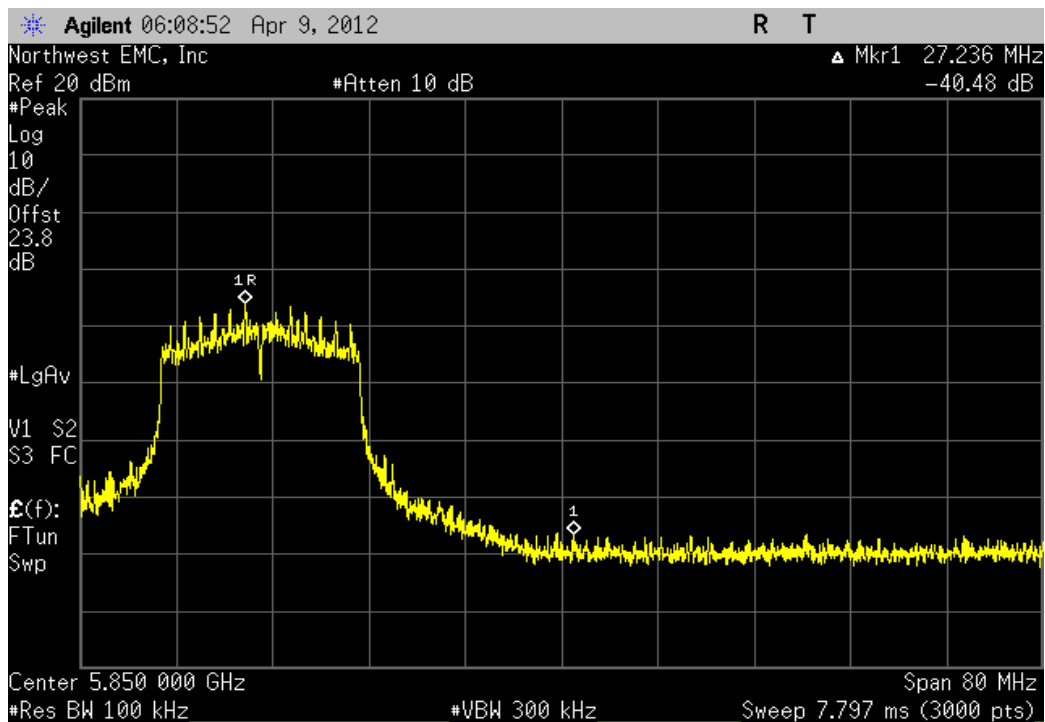
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				-37.95 dBc	≤ -20 dBc	Pass



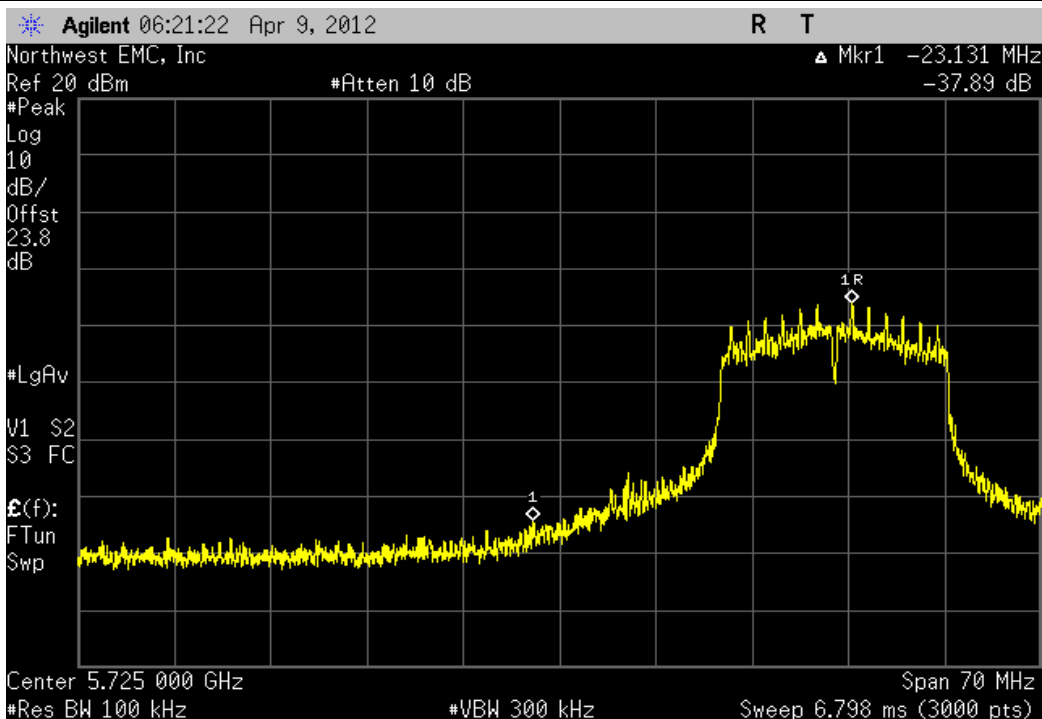
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				-40.48 dBc	≤ -20 dBc	Pass



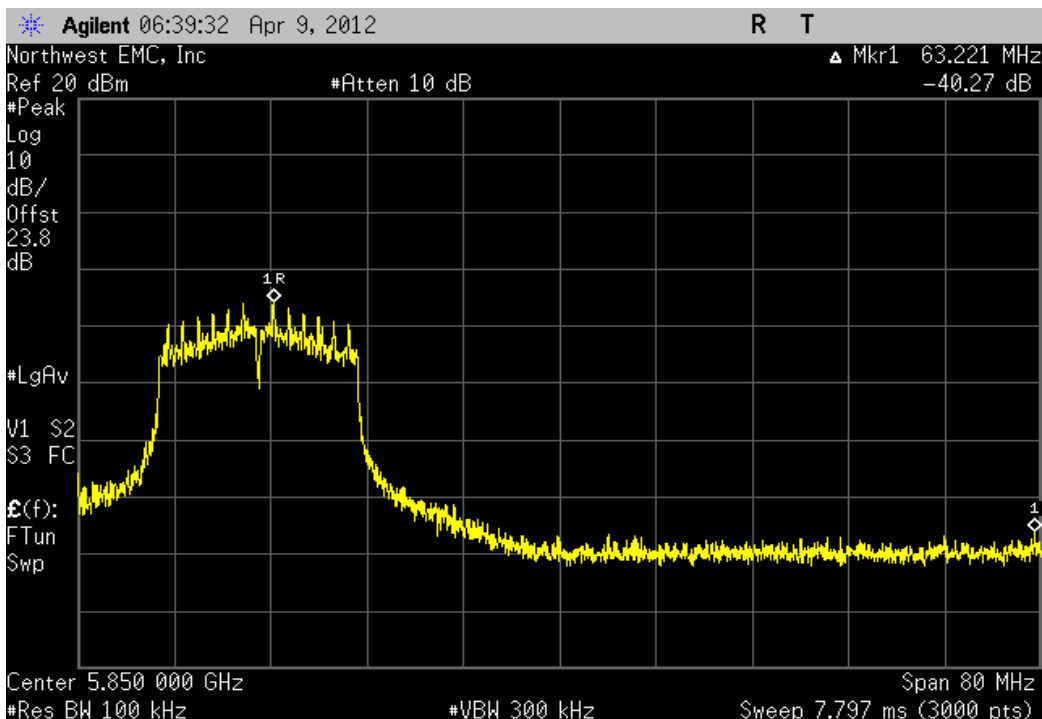
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

	Value	Limit	Result
	-37.89 dBc	≤ -20 dBc	Pass



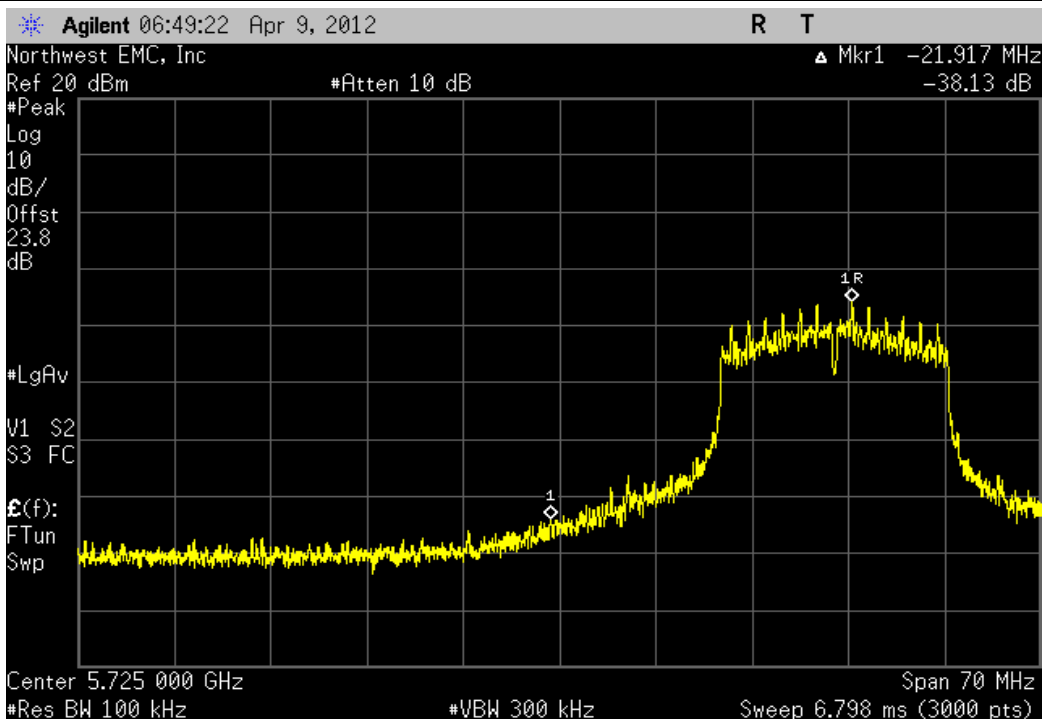
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

	Value	Limit	Result
	-40.27 dBc	≤ -20 dBc	Pass



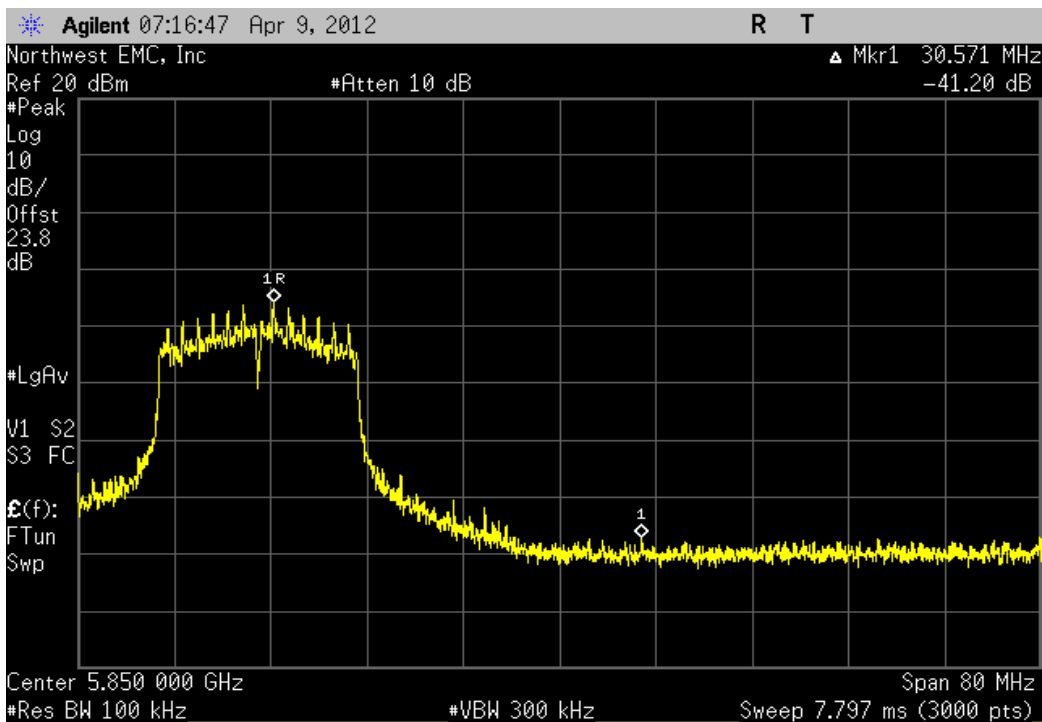
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				-38.13 dBc	≤ -20 dBc	Pass



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

				Value	Limit	Result
				-41.2 dBc	≤ -20 dBc	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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

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 its maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

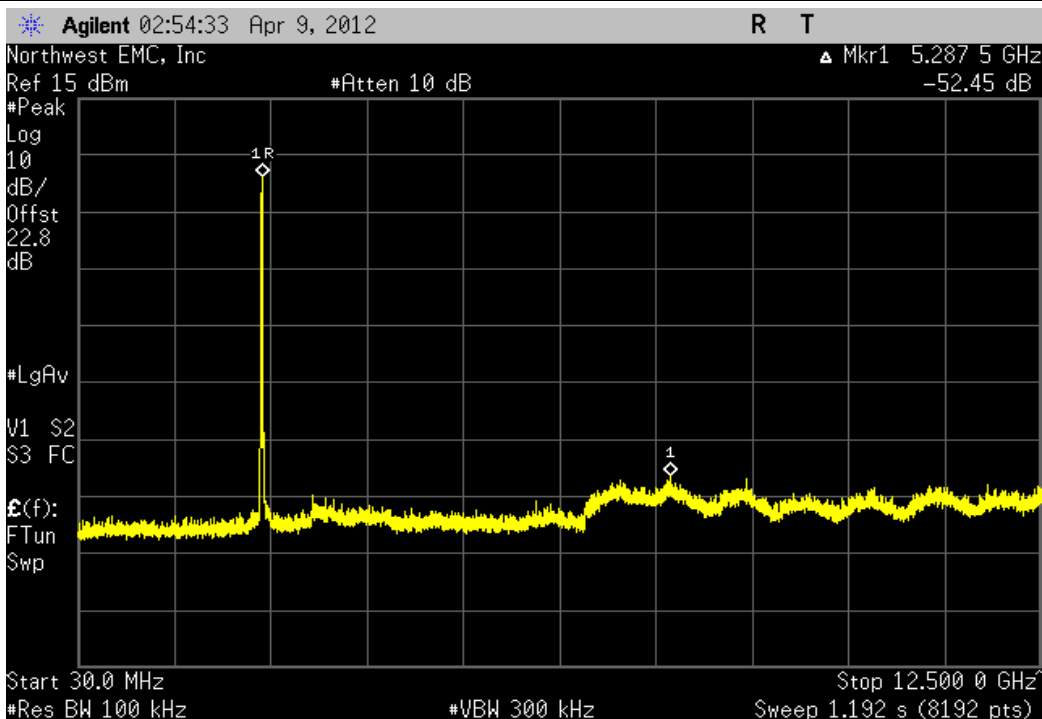


Spurious Conducted Emissions

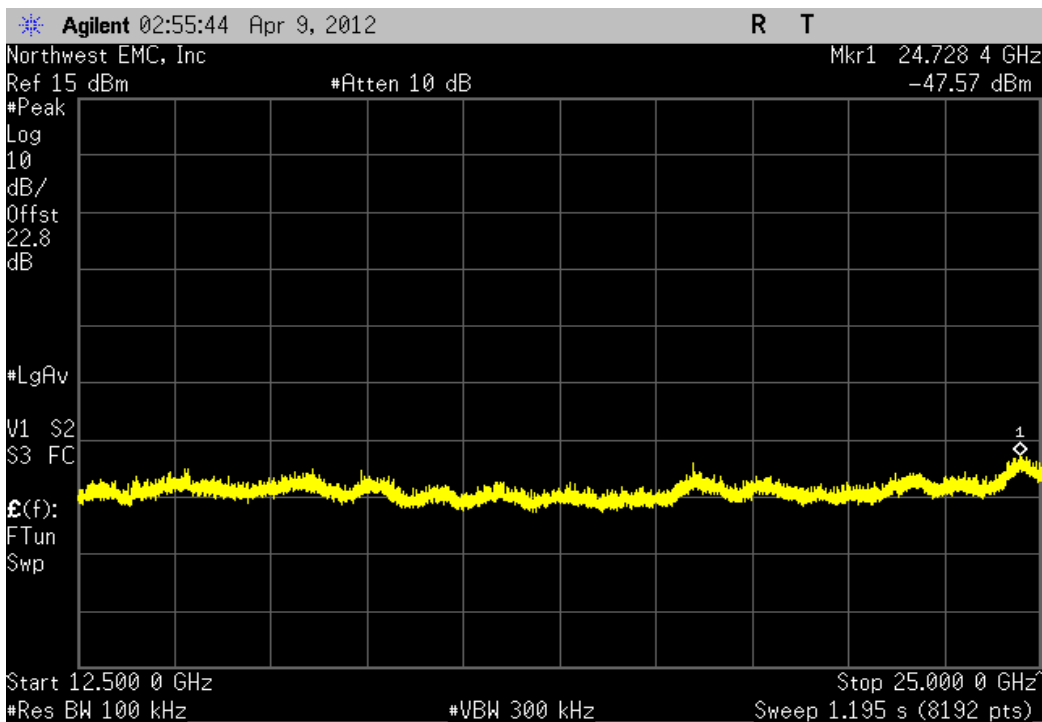
XMit 2012.04.06
PsaTx 2012.01.25

EUT: RAD7CA		Work Order: MASI0095	
Serial Number: 34996 Rev C		Date: 04/18/12	
Customer: Masimo Corporation		Temperature: 22.84 C°	
Attendees: None		Humidity: 38%	
Project: None		Barometric Pres.: 1014.4	
Tested by: Mark Baytan		Power: 110VAC/60Hz	
		Job Site: OC07	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2012		ANSI C63.10:2009	
COMMENTS			
Power Setting = 99. Port 2			
DEVIATIONS FROM TEST STANDARD			
No Deivations			
Configuration #	1	Signature 	
		Frequency Range	Value Limit Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-52.45 dBc ≤ -20 dBc Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-48.64 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	-53.29 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-49.22 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	-52.5 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-48.35 dBc ≤ -20 dBc Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-51.95 dBc ≤ -20 dBc Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-47.4 dBc ≤ -20 dBc Pass
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	-48.52 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	-53.34 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-48.11 dBc ≤ -20 dBc Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-41.99 dBc ≤ -20 dBc Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-43.86 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	-49.71 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-45.51 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	-50.5 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-45.95 dBc ≤ -20 dBc Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-40.55 dBc ≤ -20 dBc Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-45.97 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	-52.55 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-48.11 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	-52.5 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-47.44 dBc ≤ -20 dBc Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-40.69 dBc ≤ -20 dBc Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-46.5 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	-52.79 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-48.16 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	-51.73 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-47.21 dBc ≤ -20 dBc Pass
5725 MHz - 5850 MHz Band			
802.11(a) 6 Mbps			
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-34.89 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-30.8 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-28.68 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-21.85 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-32.76 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-29.47 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-28.03 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-20.75 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-34.62 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-30.5 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-28.41 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-20.62 dBc ≤ -20 dBc Pass
802.11(a) 36 Mbps			
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-34.43 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-29.76 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-28.6 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-21.41 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-34.56 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-29.96 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-29.27 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-21.24 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-34.83 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-28.97 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-28.97 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-21.58 dBc ≤ -20 dBc Pass
802.11(a) 54 Mbps			
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-35.09 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-30.38 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-28.99 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-21.61 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-34.99 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-30.86 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-29.21 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-20.8 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-34.87 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-30.1 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-29.59 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-22.2 dBc ≤ -20 dBc Pass

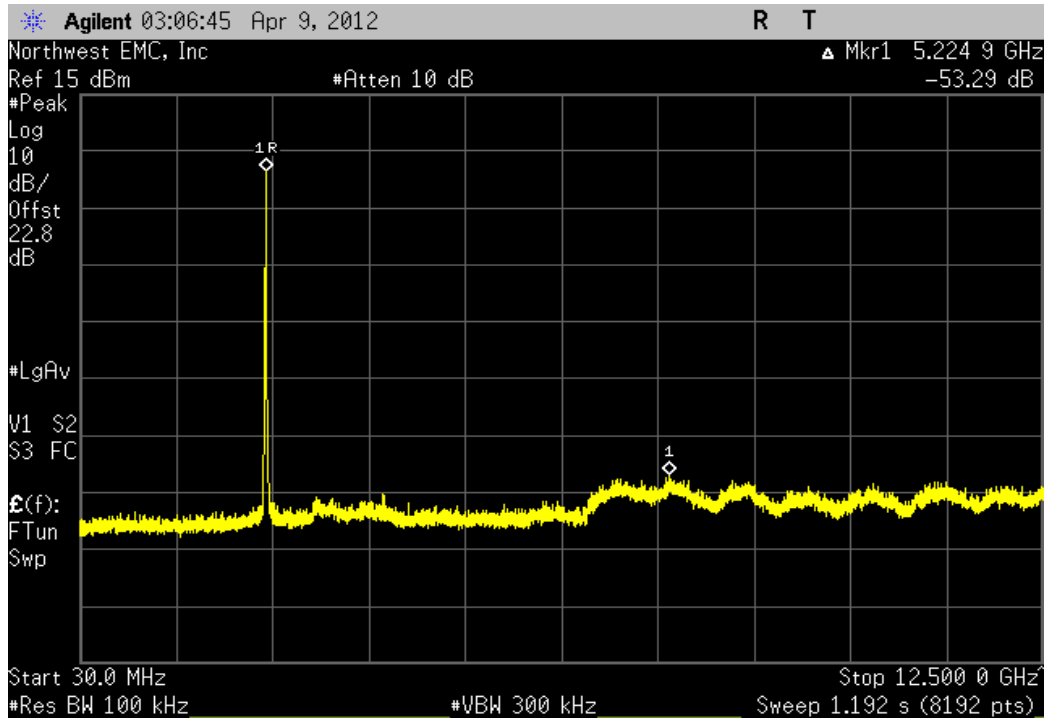
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.45 dBc	≤ -20 dBc	Pass	



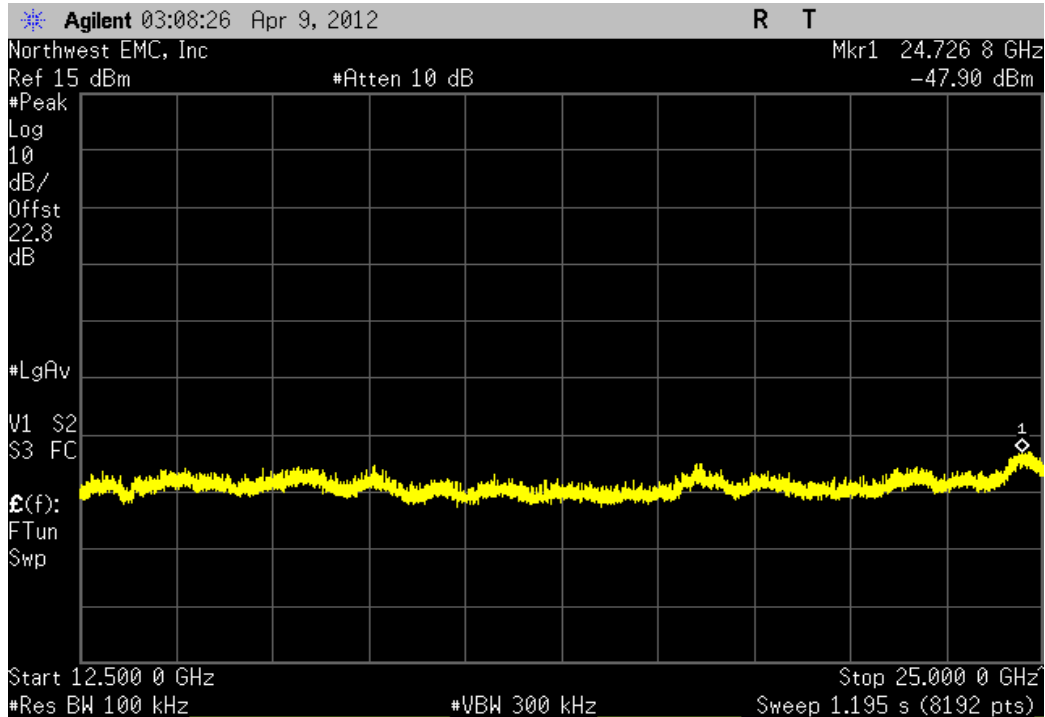
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.64 dBc	≤ -20 dBc	Pass	



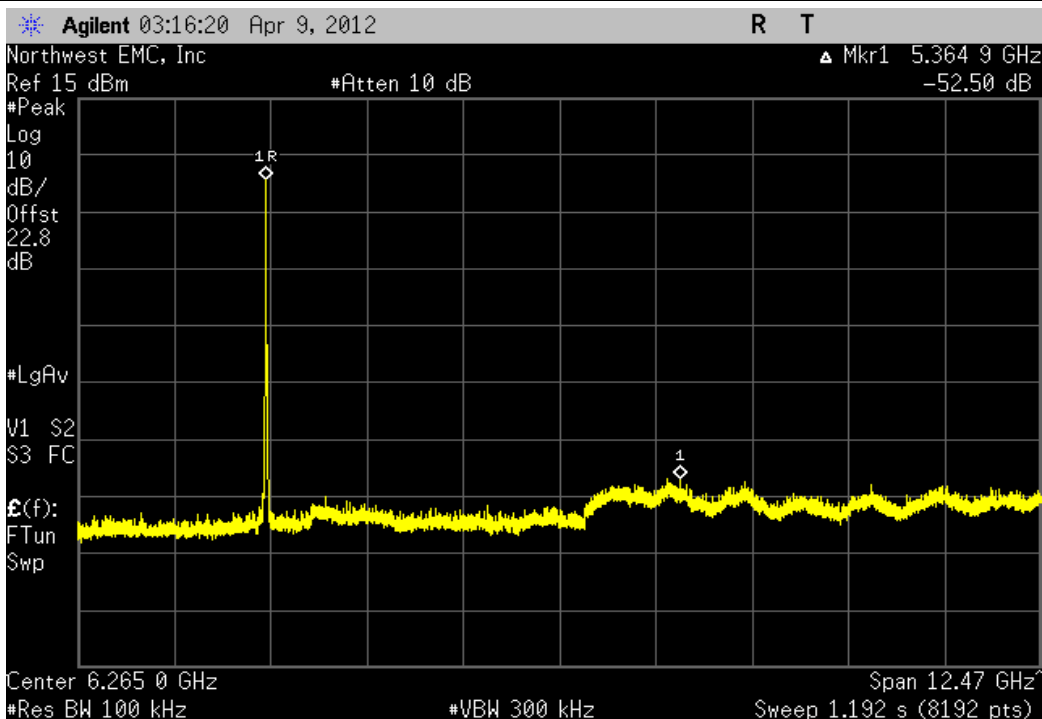
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-53.29 dBc	≤ -20 dBc	Pass	



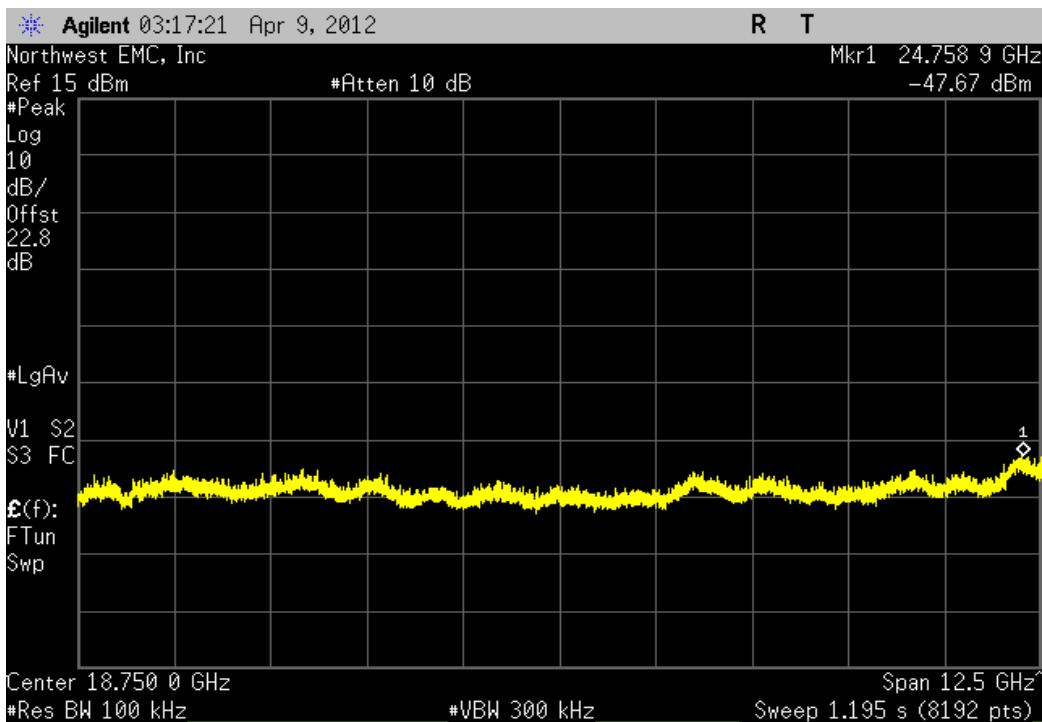
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-49.22 dBc	≤ -20 dBc	Pass	



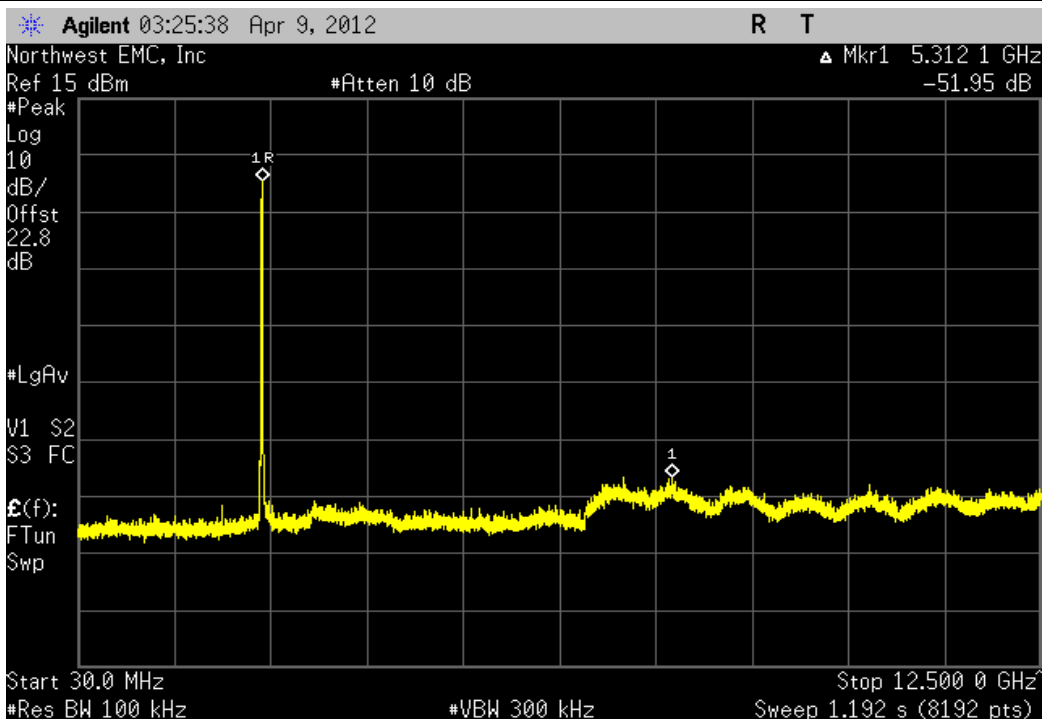
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.5 dBc	≤ -20 dBc	Pass	



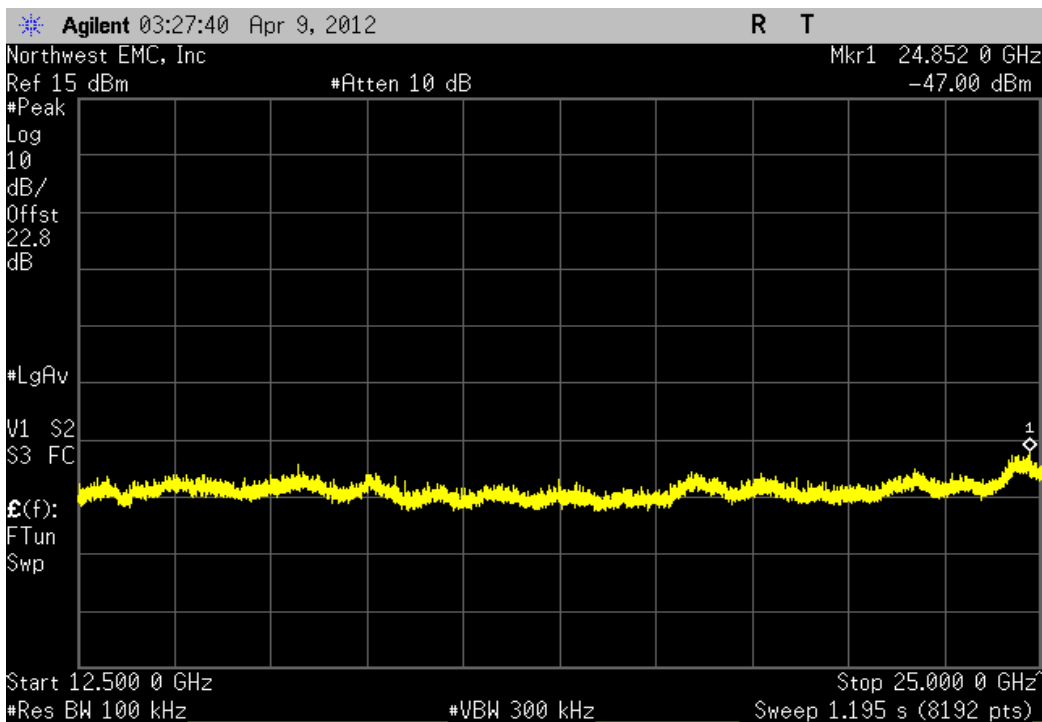
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.35 dBc	≤ -20 dBc	Pass	



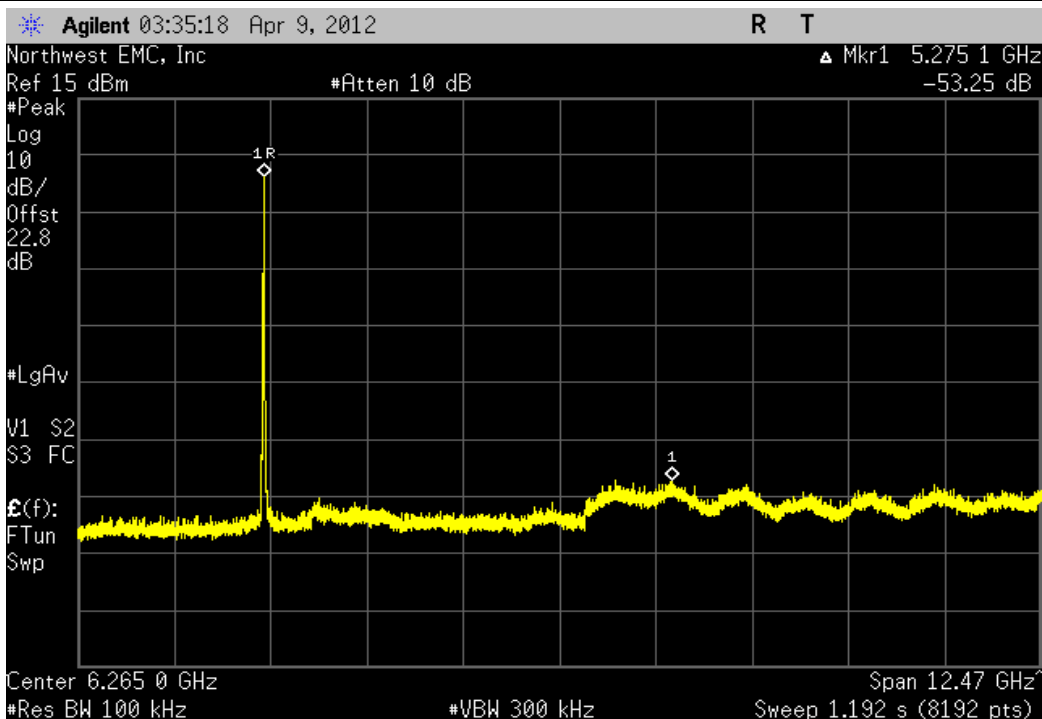
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.95 dBc	≤ -20 dBc	Pass	



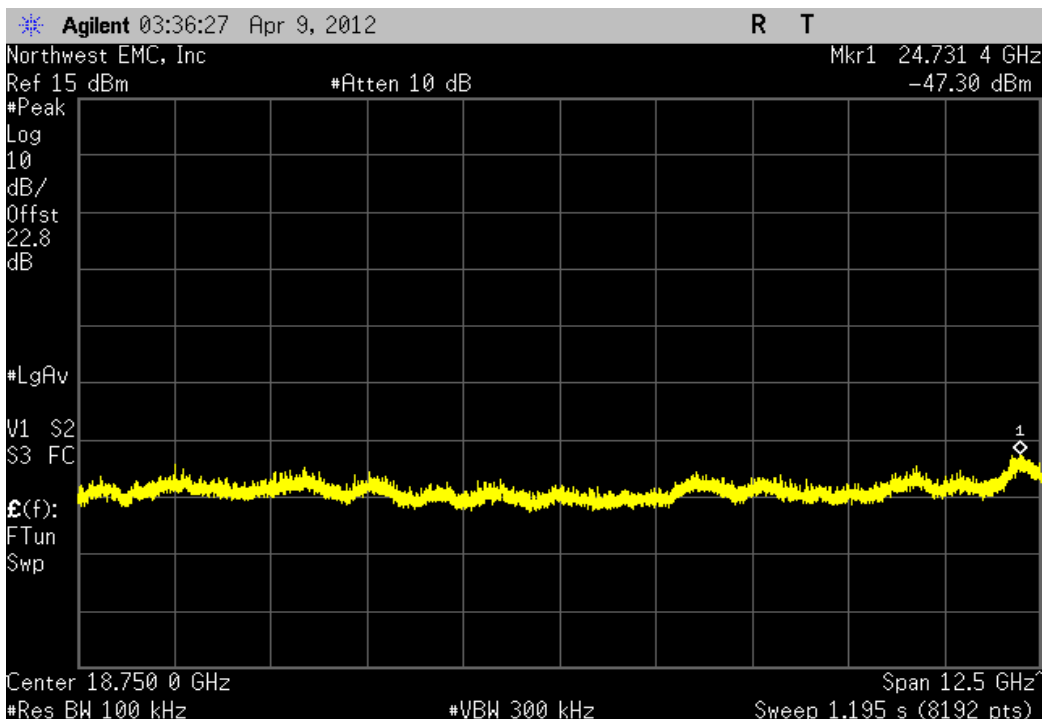
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.4 dBc	≤ -20 dBc	Pass	



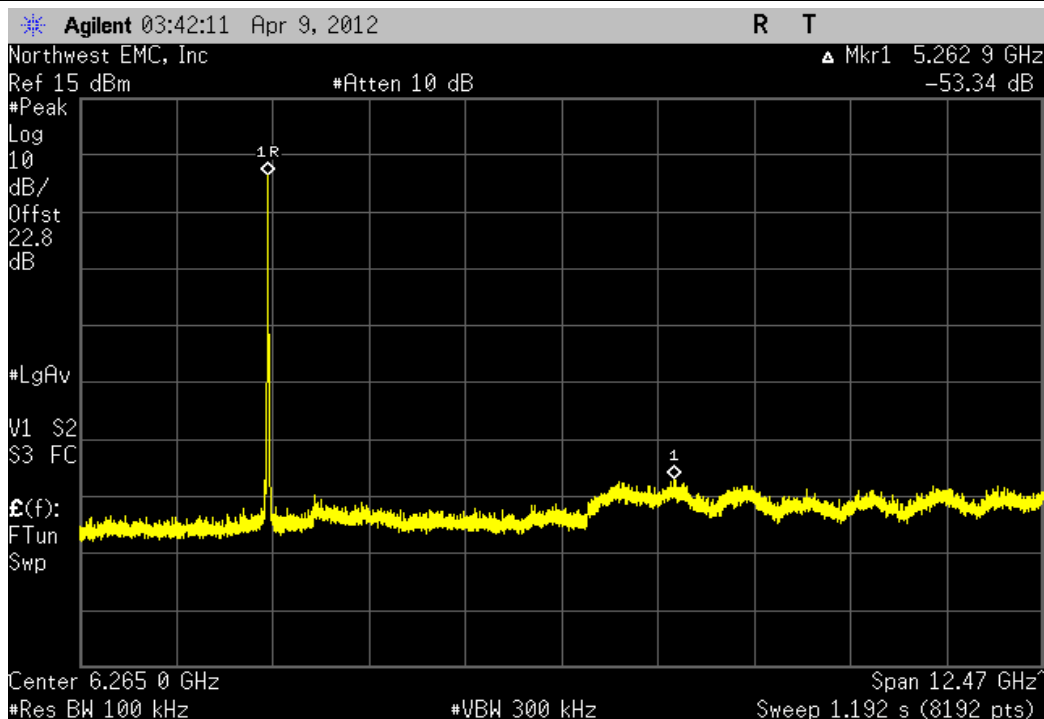
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-53.25 dBc	≤ -20 dBc	Pass	



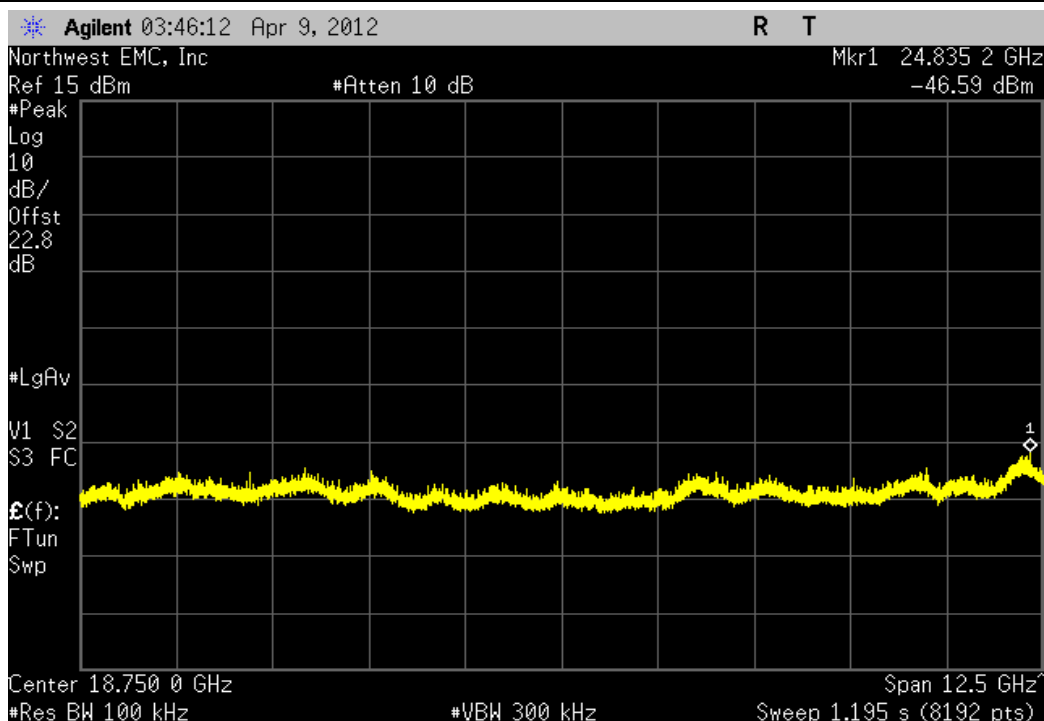
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.52 dBc	≤ -20 dBc	Pass	



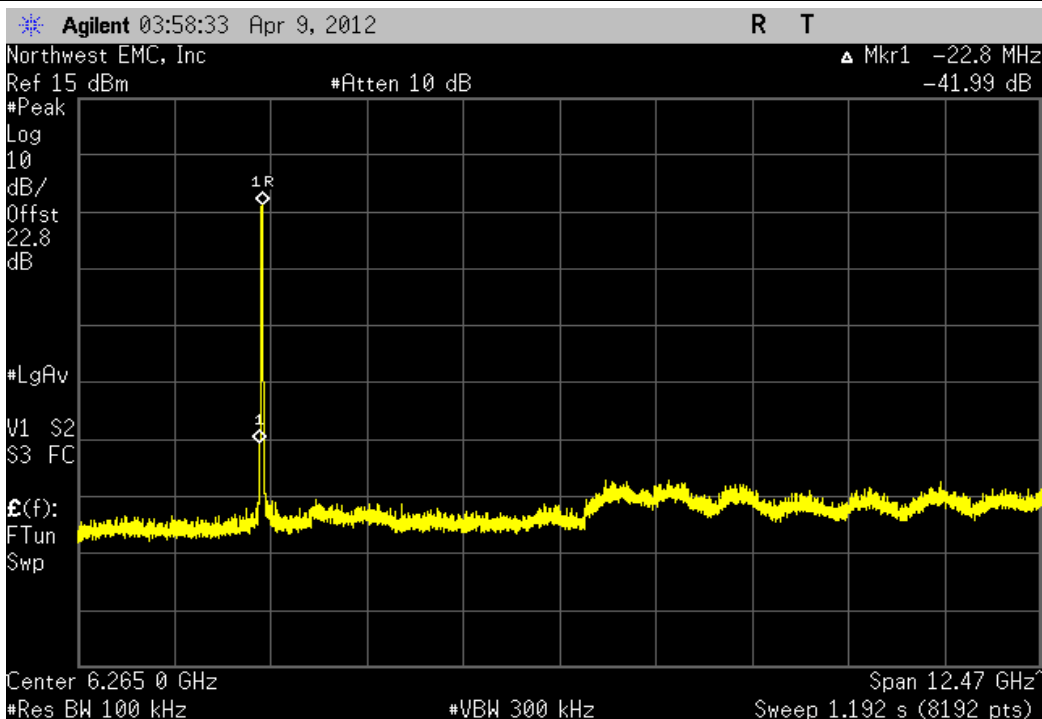
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-53.34 dBc	≤ -20 dBc	Pass	



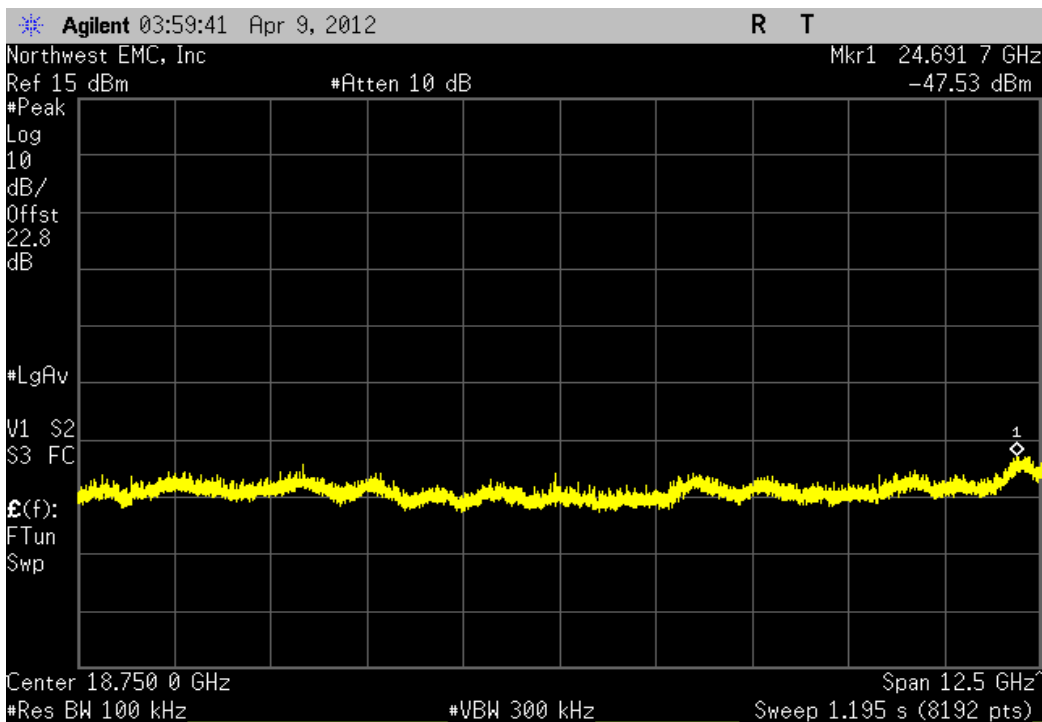
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.11 dBc	≤ -20 dBc	Pass	



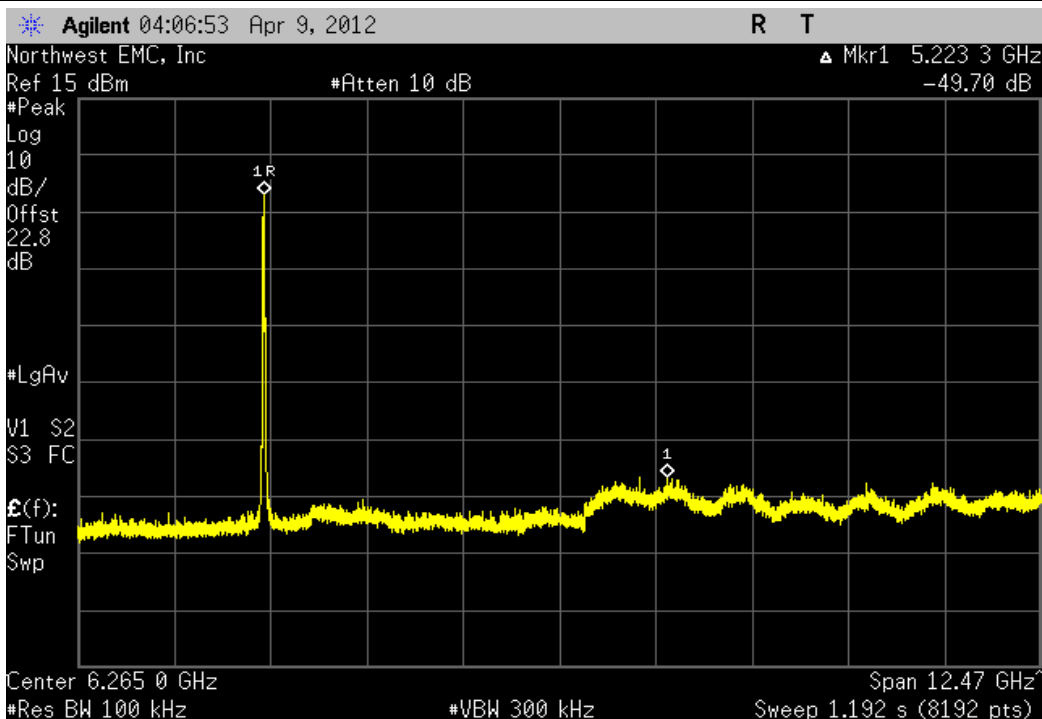
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-41.99 dBc	≤ -20 dBc	Pass	



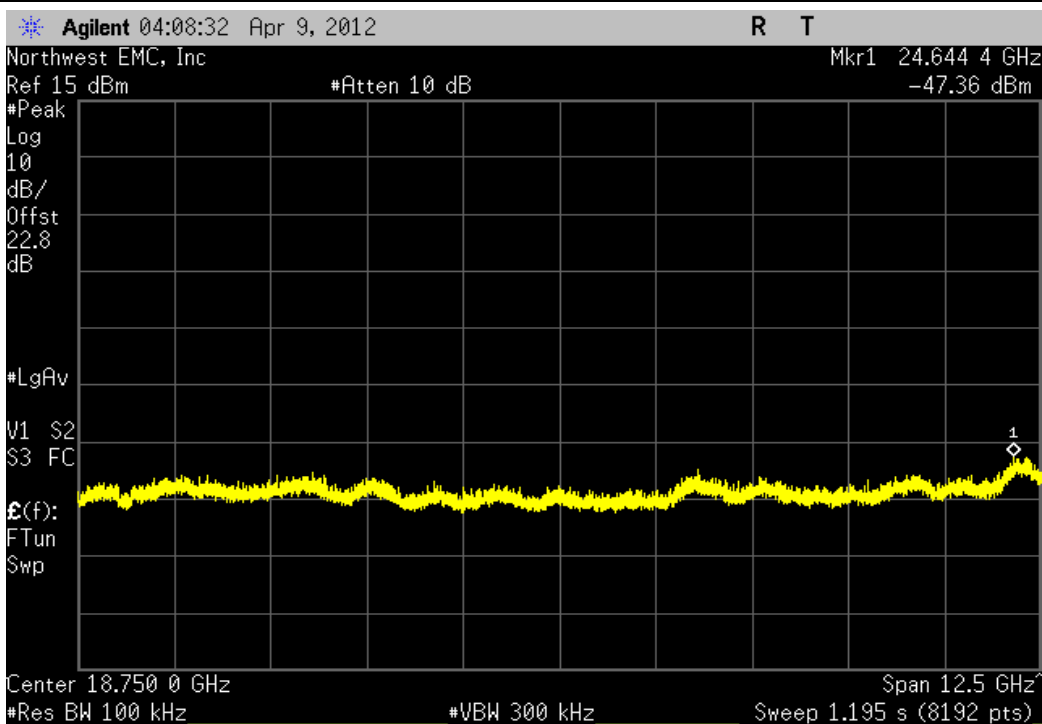
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.86 dBc	≤ -20 dBc	Pass	



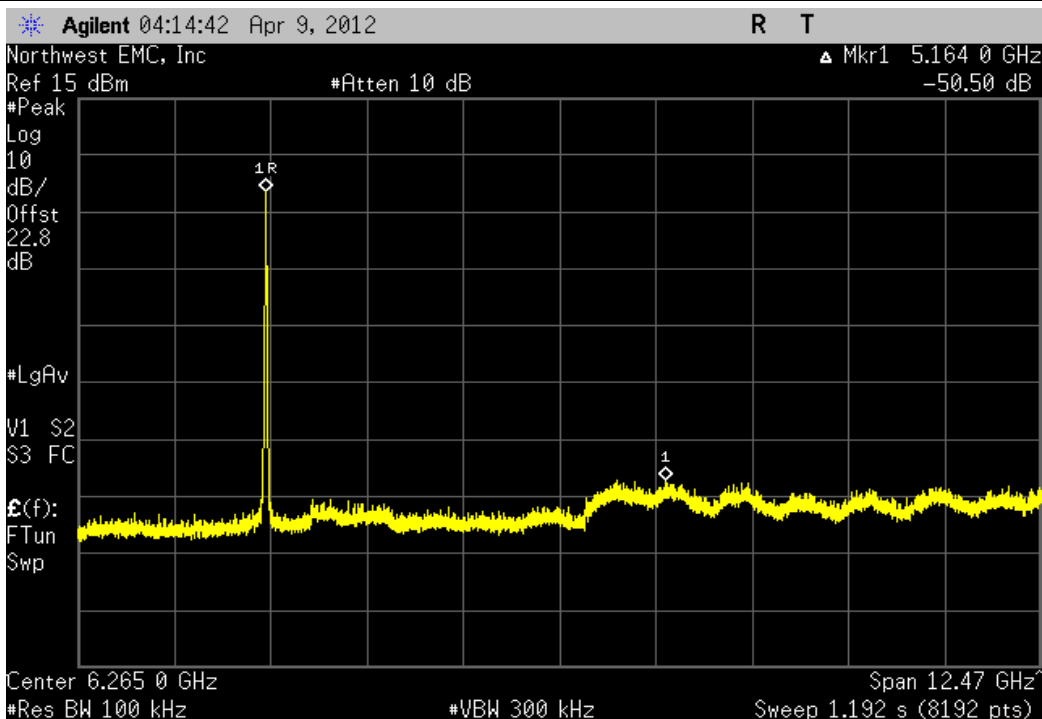
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.71 dBc	≤ -20 dBc	Pass	



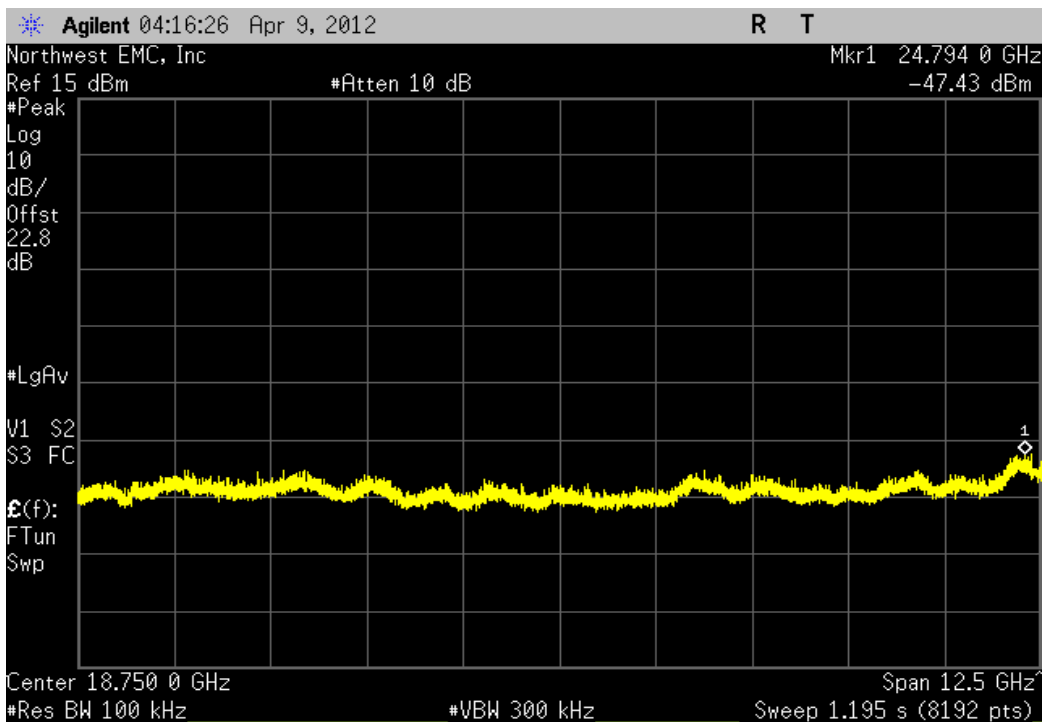
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.51 dBc	≤ -20 dBc	Pass	



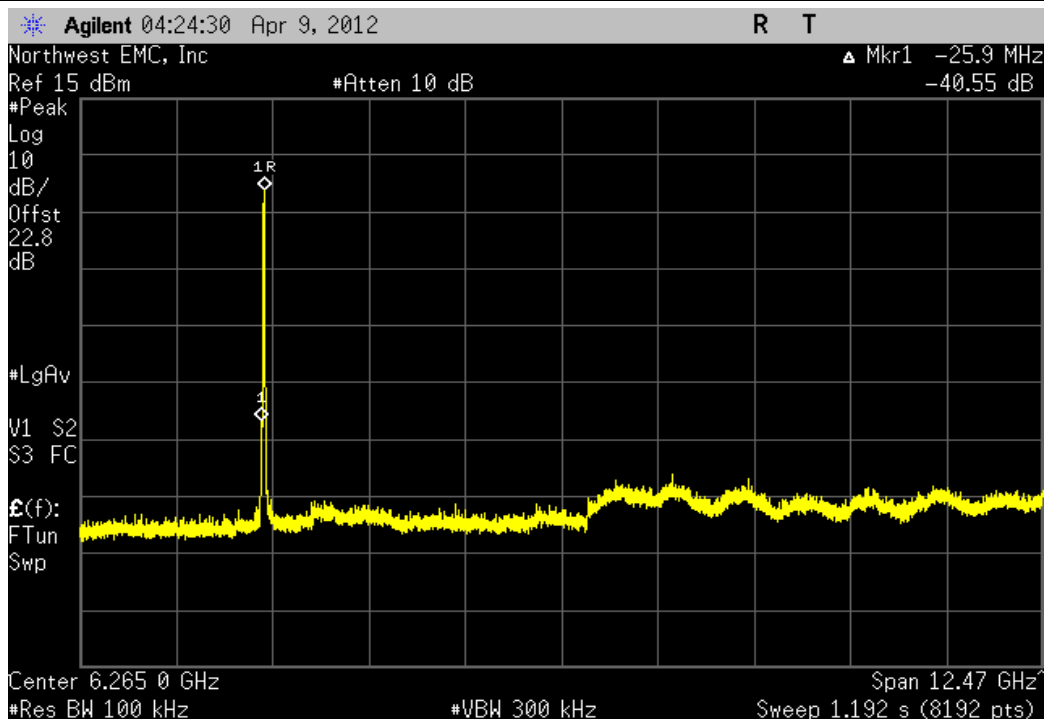
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.5 dBc	≤ -20 dBc	Pass	



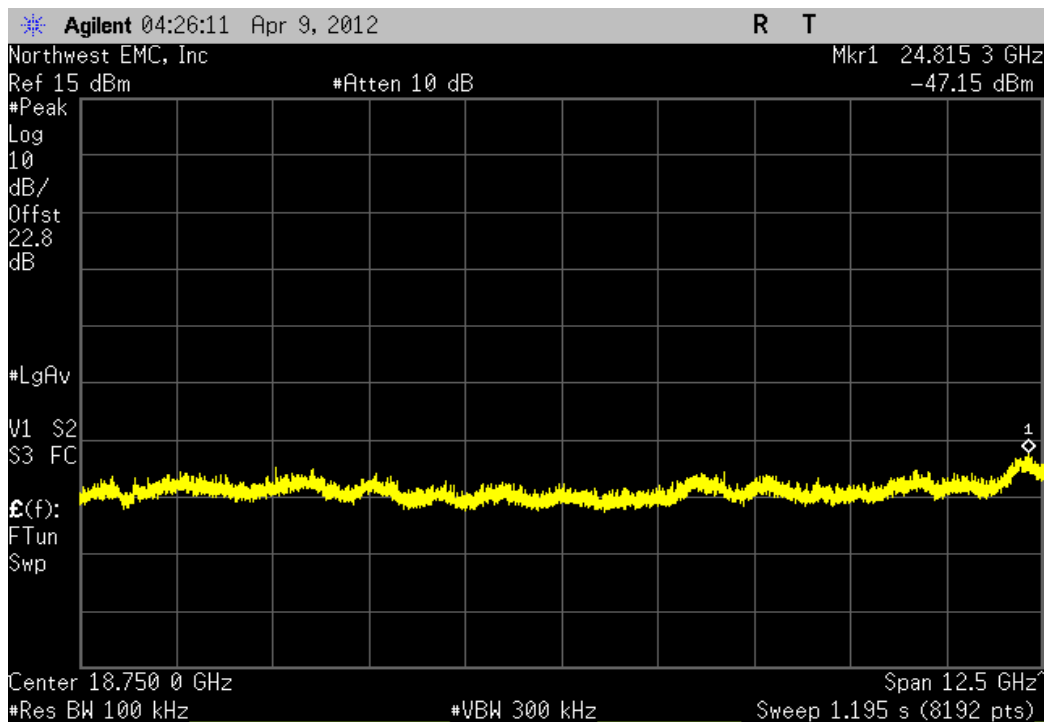
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.95 dBc	≤ -20 dBc	Pass	



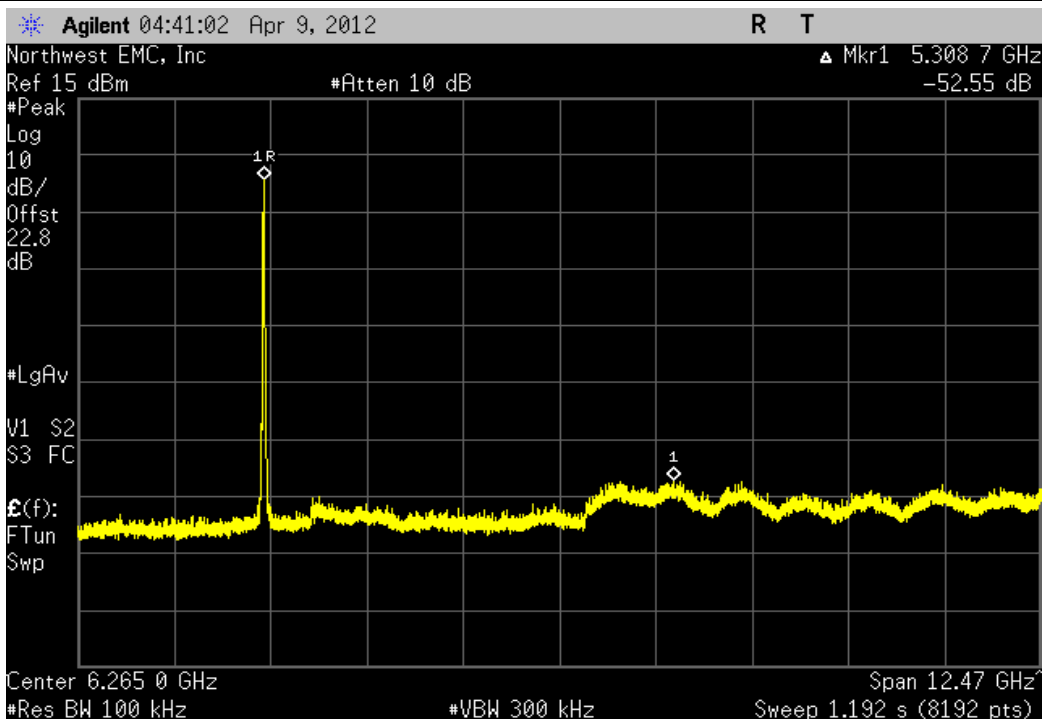
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-40.55 dBc	≤ -20 dBc	Pass	



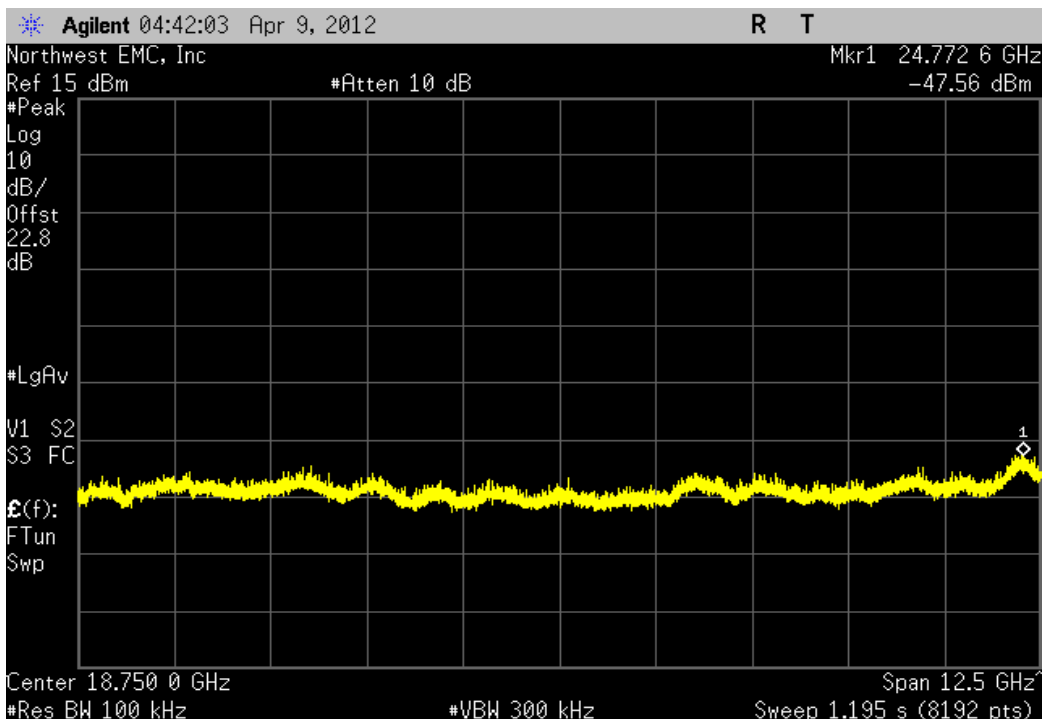
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.97 dBc	≤ -20 dBc	Pass	



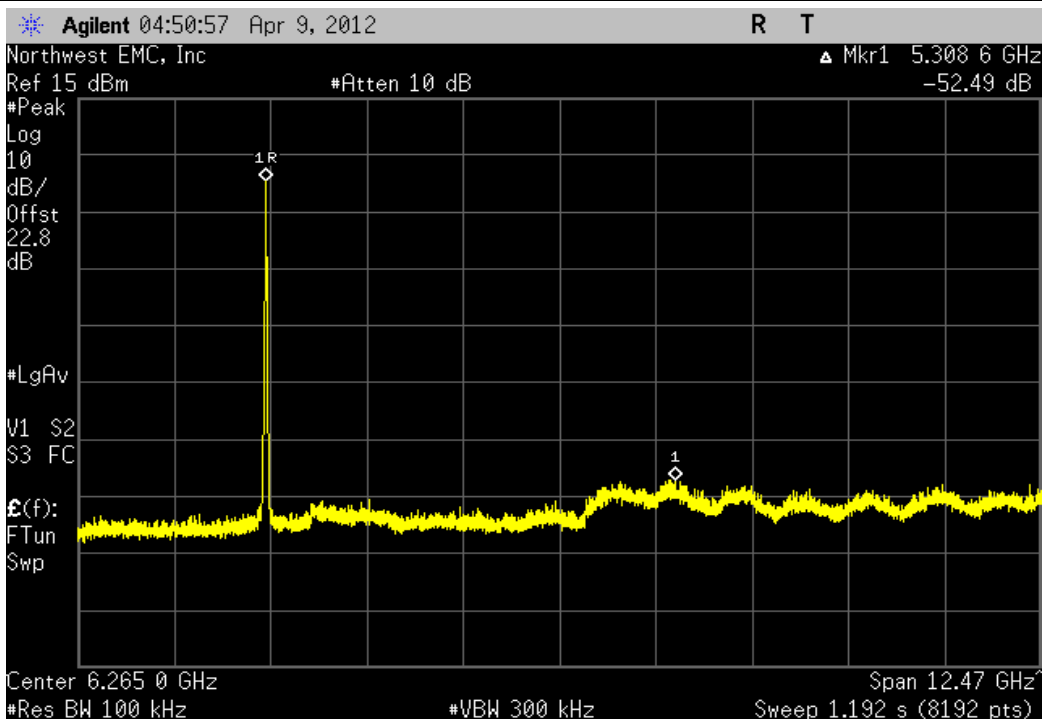
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.55 dBc	≤ -20 dBc	Pass	



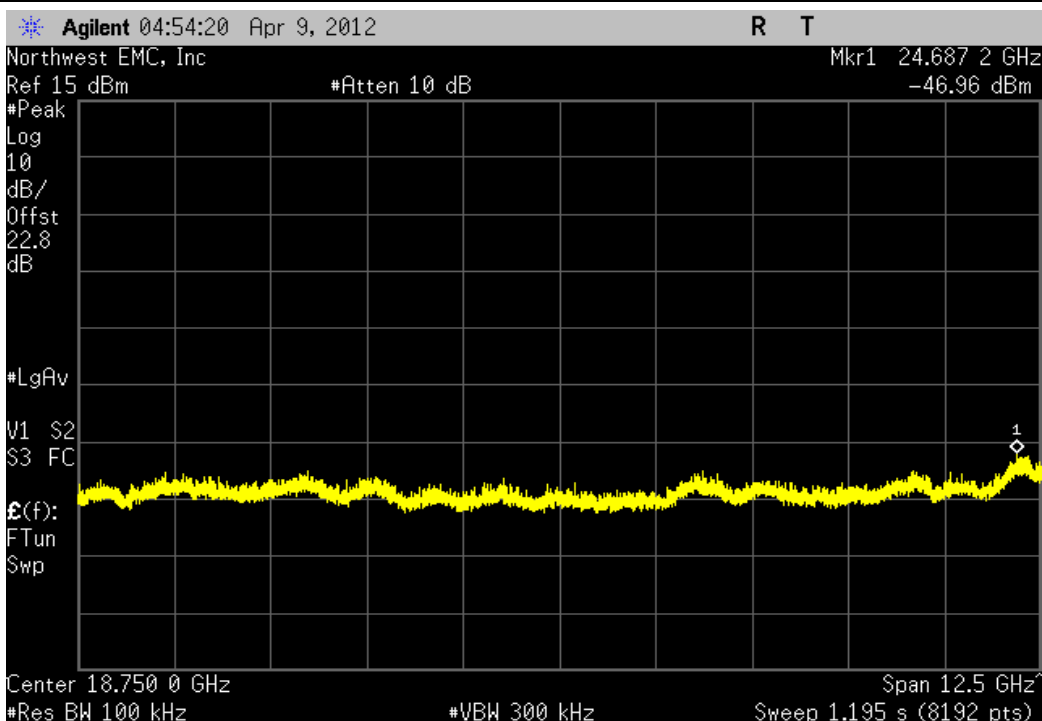
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.11 dBc	≤ -20 dBc	Pass	



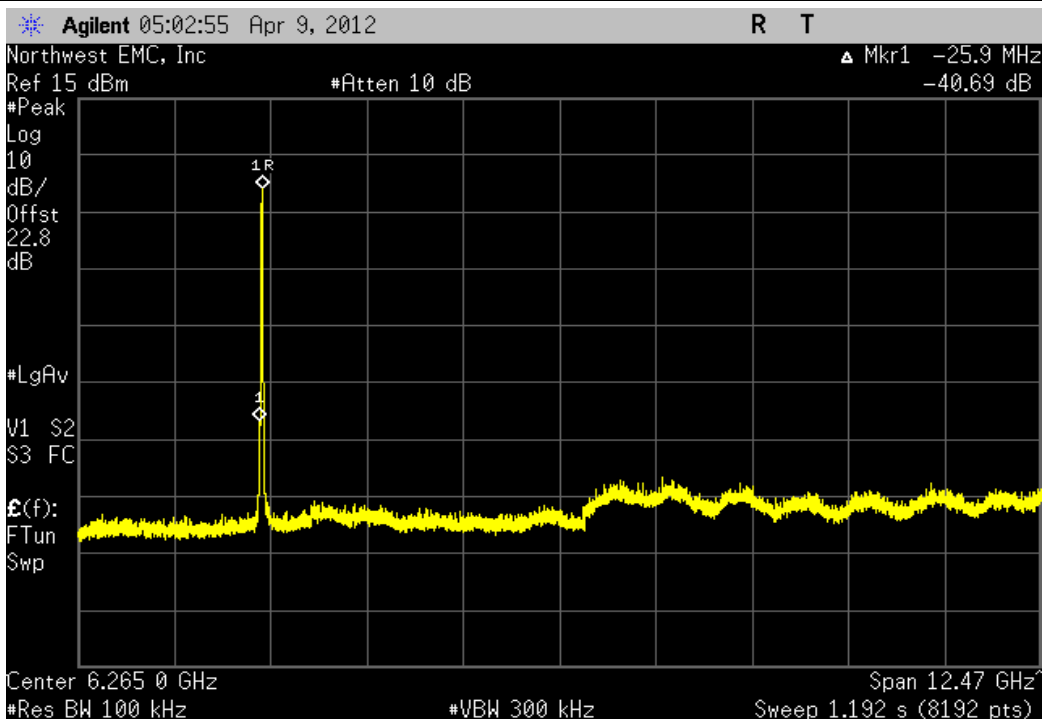
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.5 dBc	≤ -20 dBc	Pass	



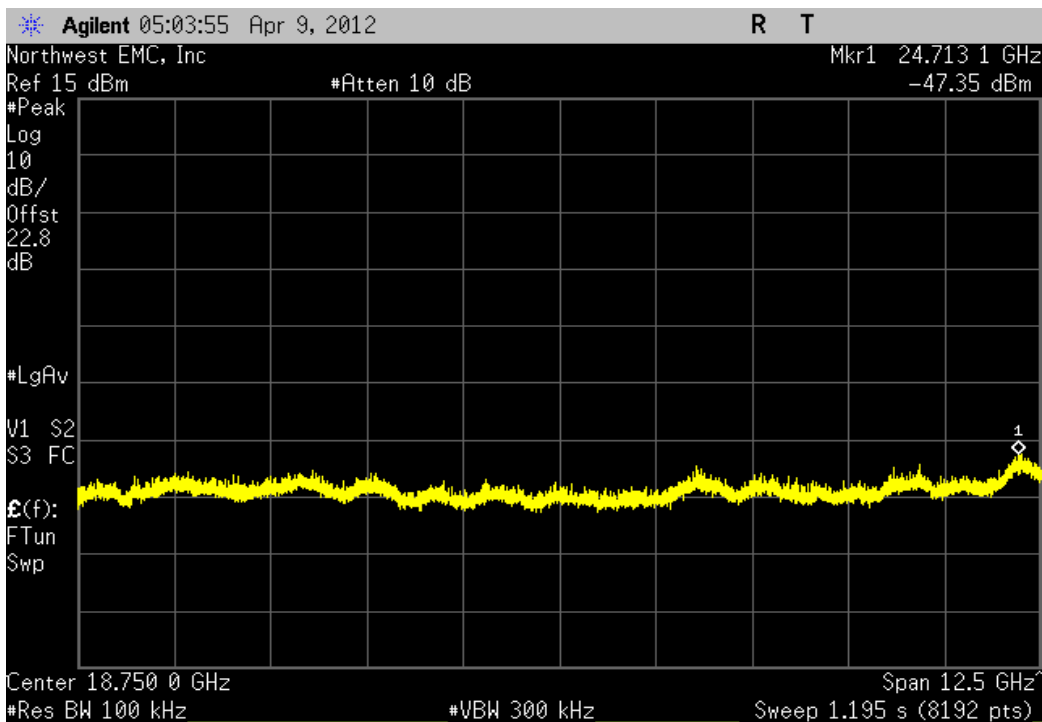
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.44 dBc	≤ -20 dBc	Pass	



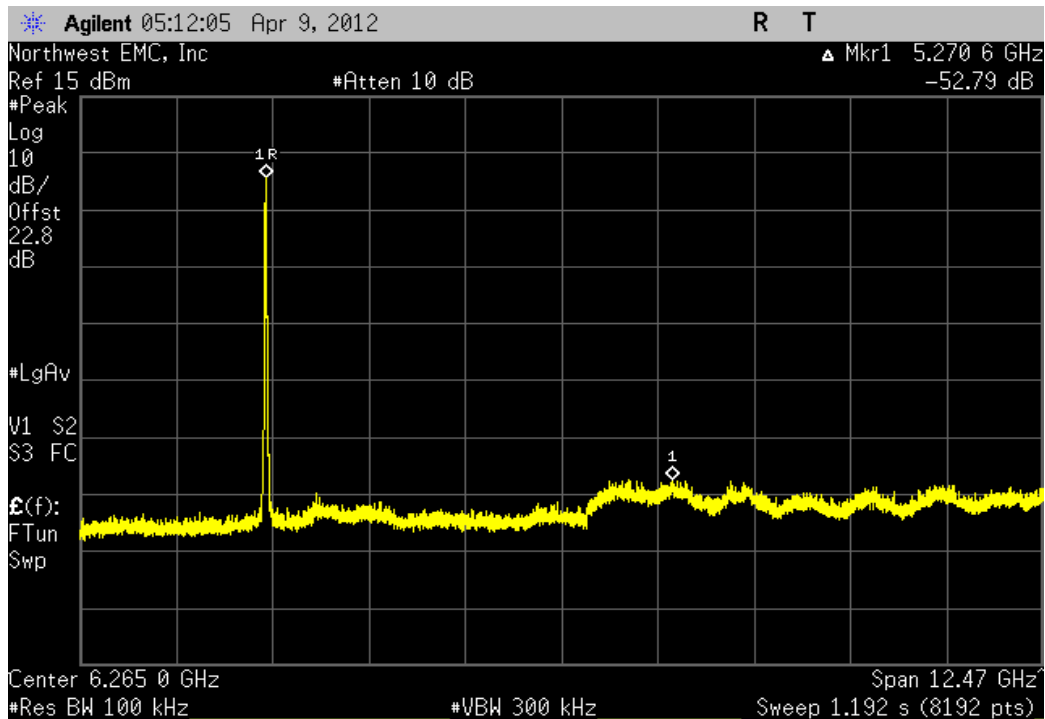
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-40.69 dBc	≤ -20 dBc	Pass	



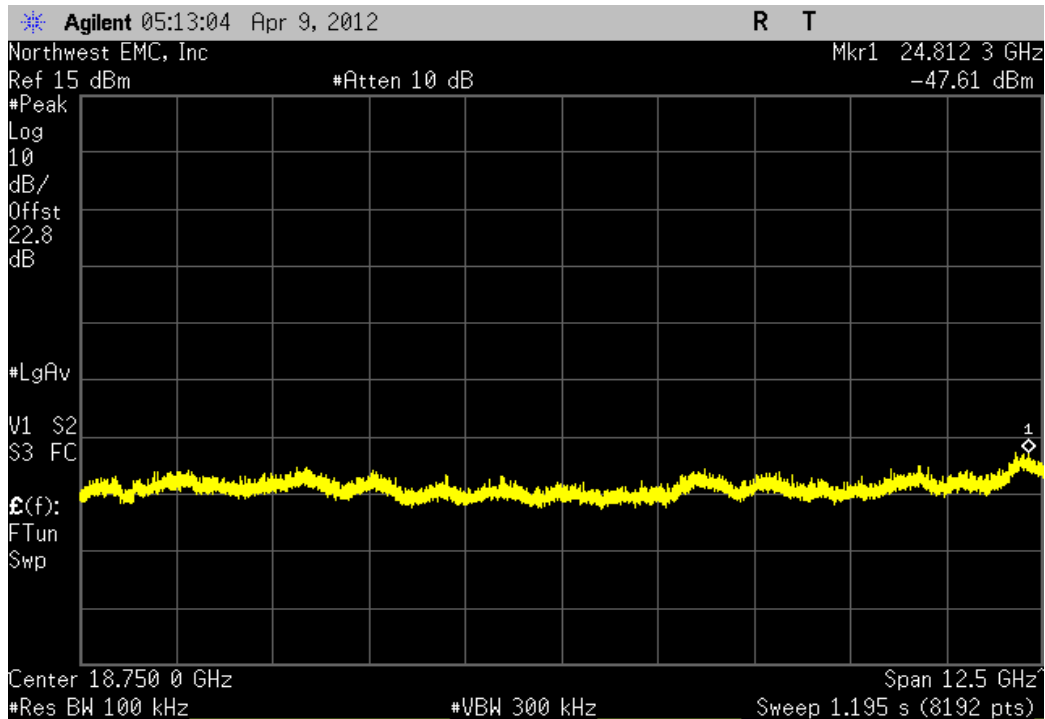
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.5 dBc	≤ -20 dBc	Pass	



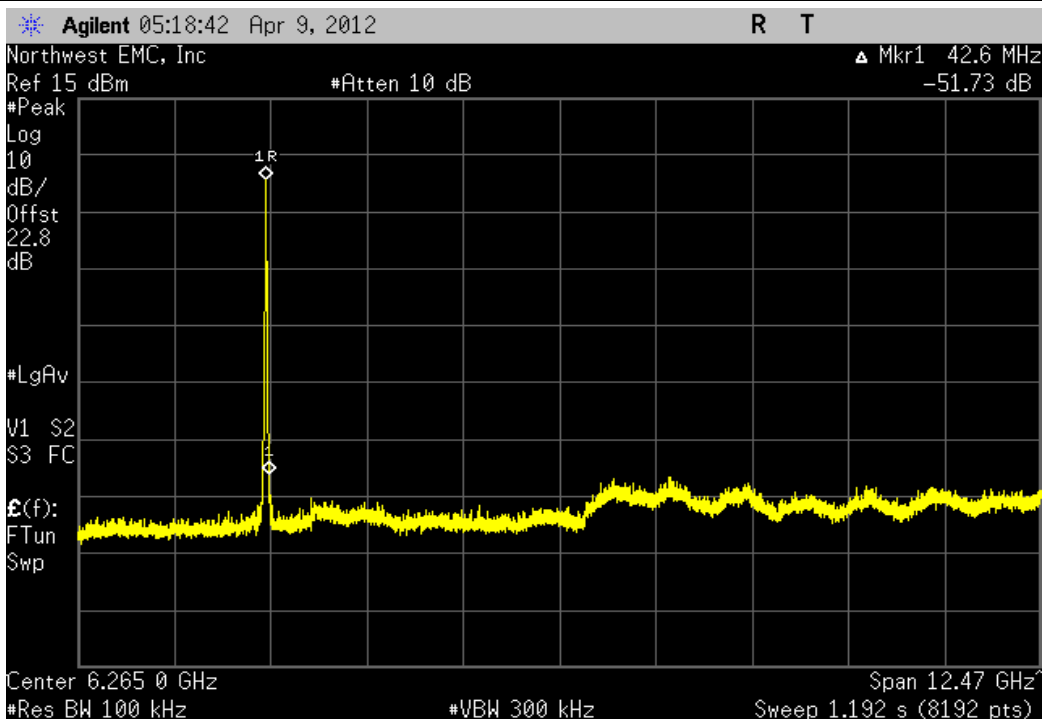
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.79 dBc	≤ -20 dBc	Pass	



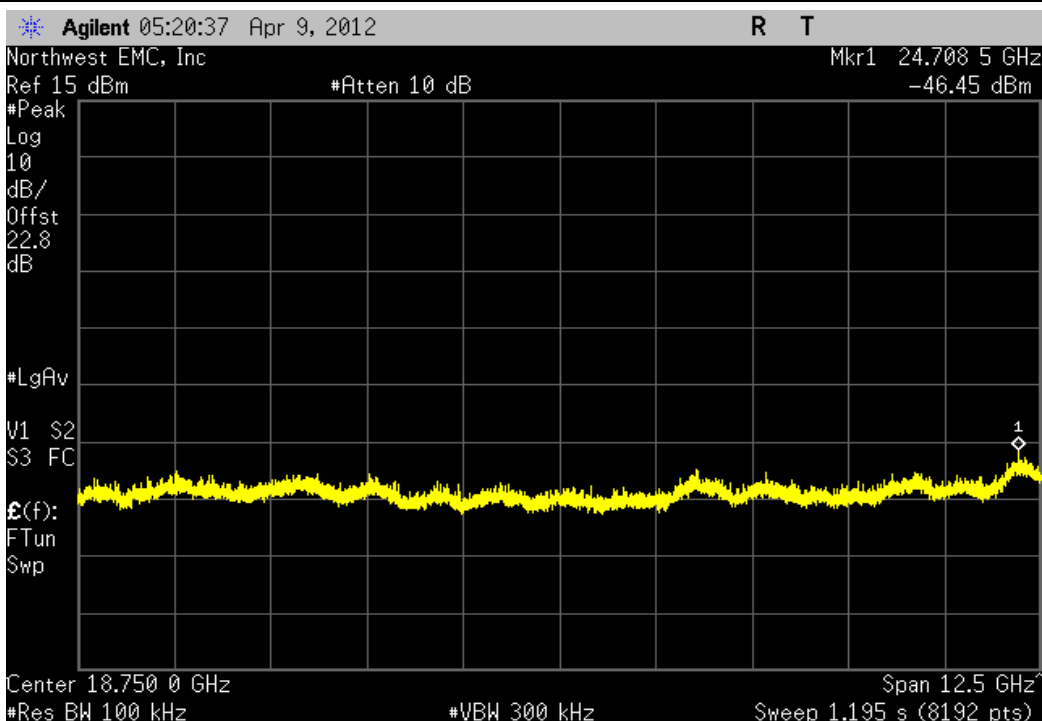
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.16 dBc	≤ -20 dBc	Pass	



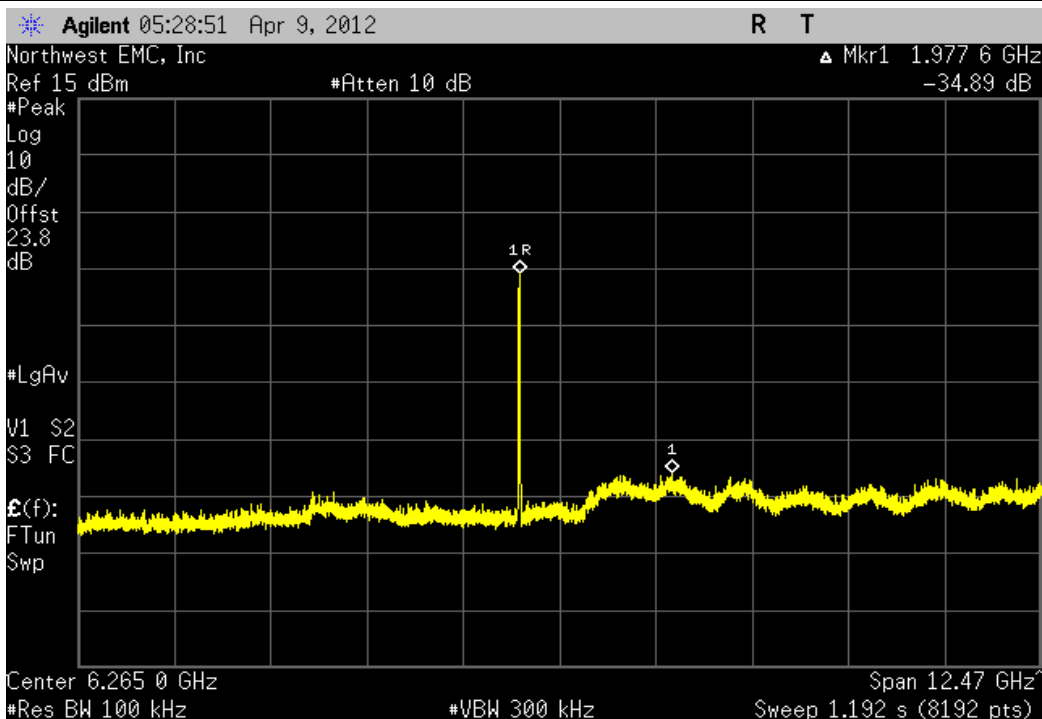
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.73 dBc	≤ -20 dBc	Pass	



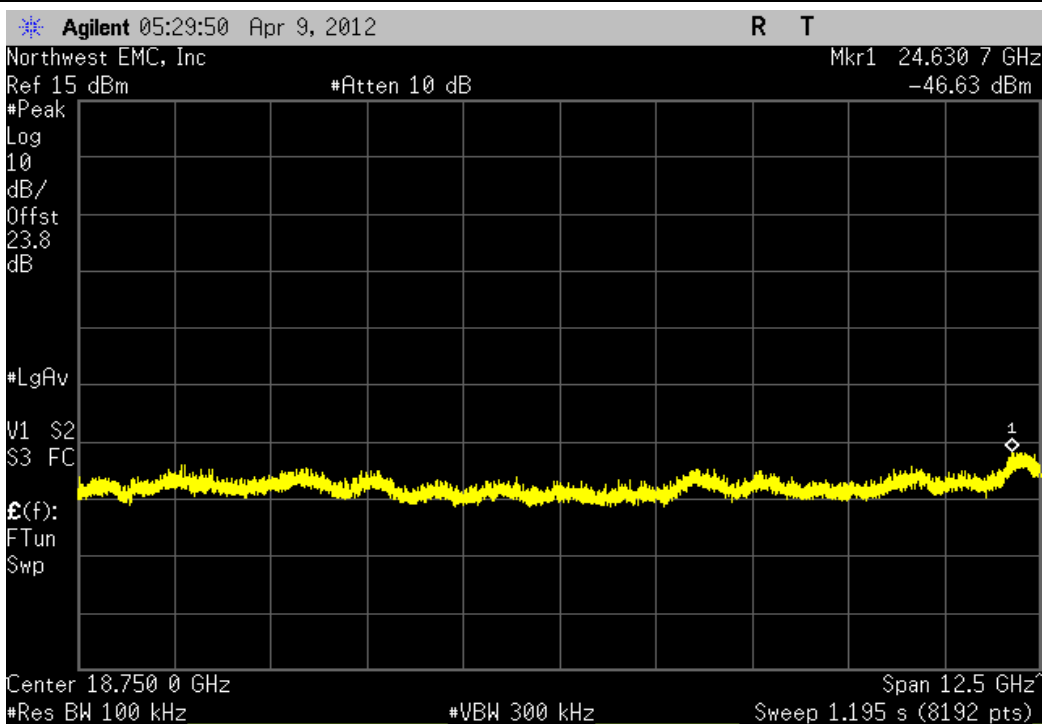
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.21 dBc	≤ -20 dBc	Pass	



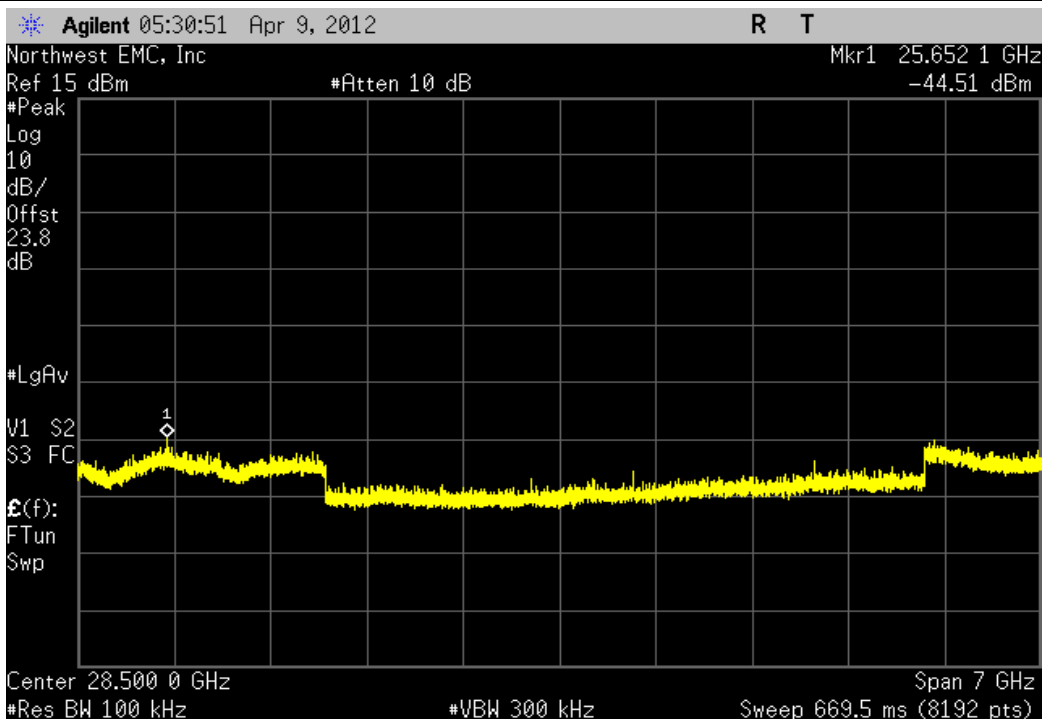
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-34.89 dBc	≤ -20 dBc	Pass	



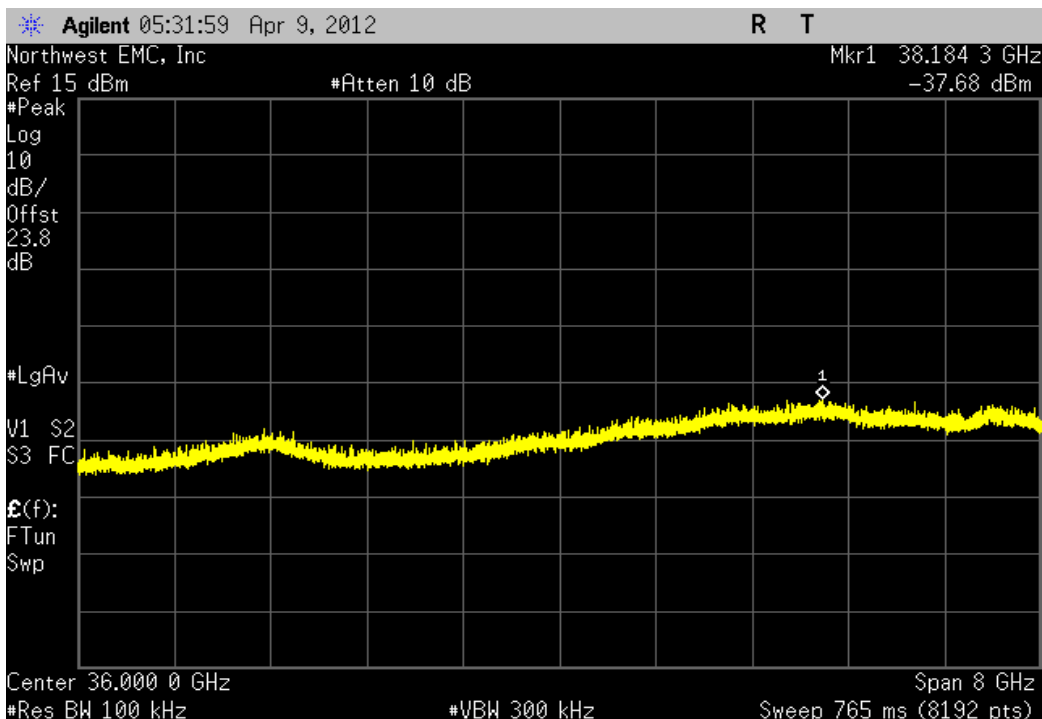
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-30.8 dBc	≤ -20 dBc	Pass	



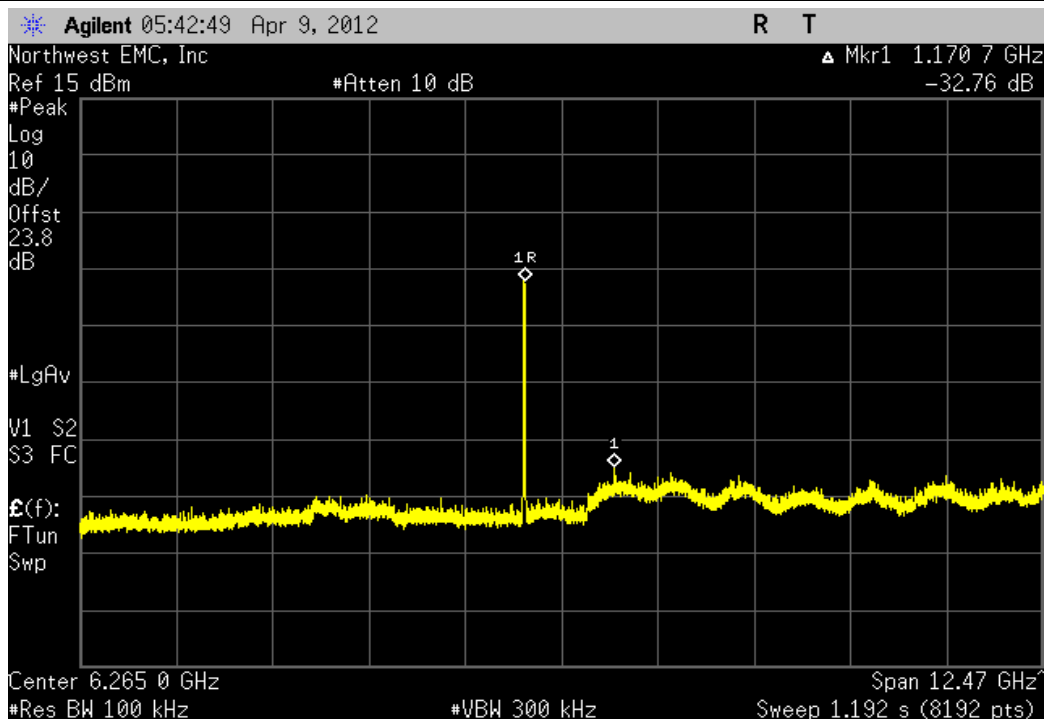
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-28.68 dBc	≤ -20 dBc	Pass	



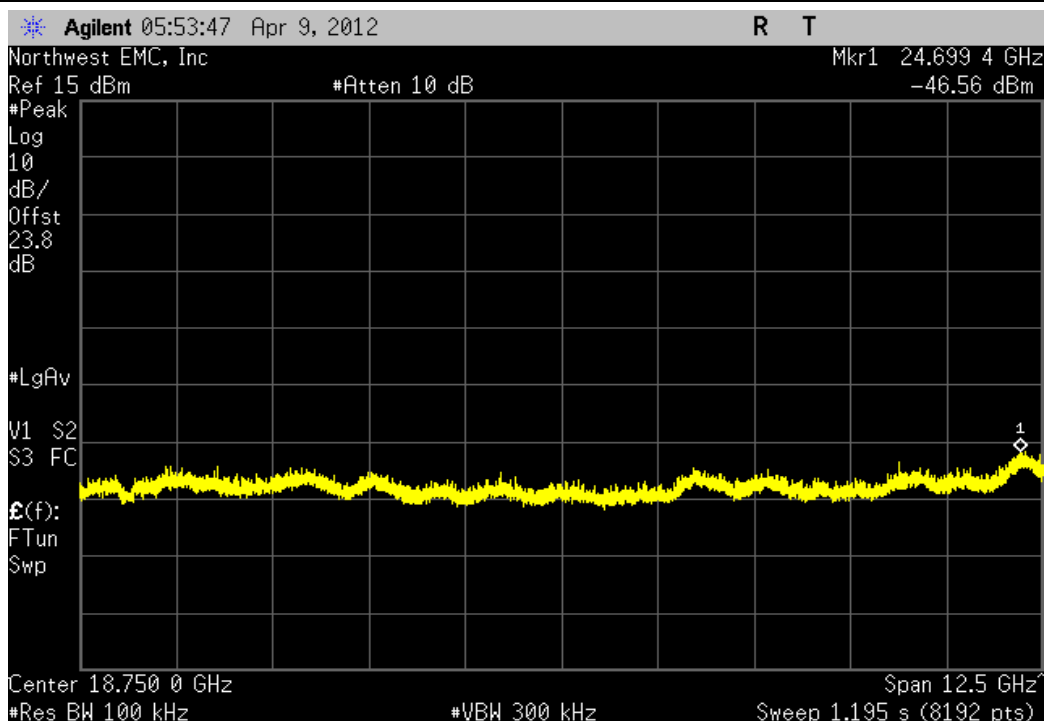
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-21.85 dBc	≤ -20 dBc	Pass	



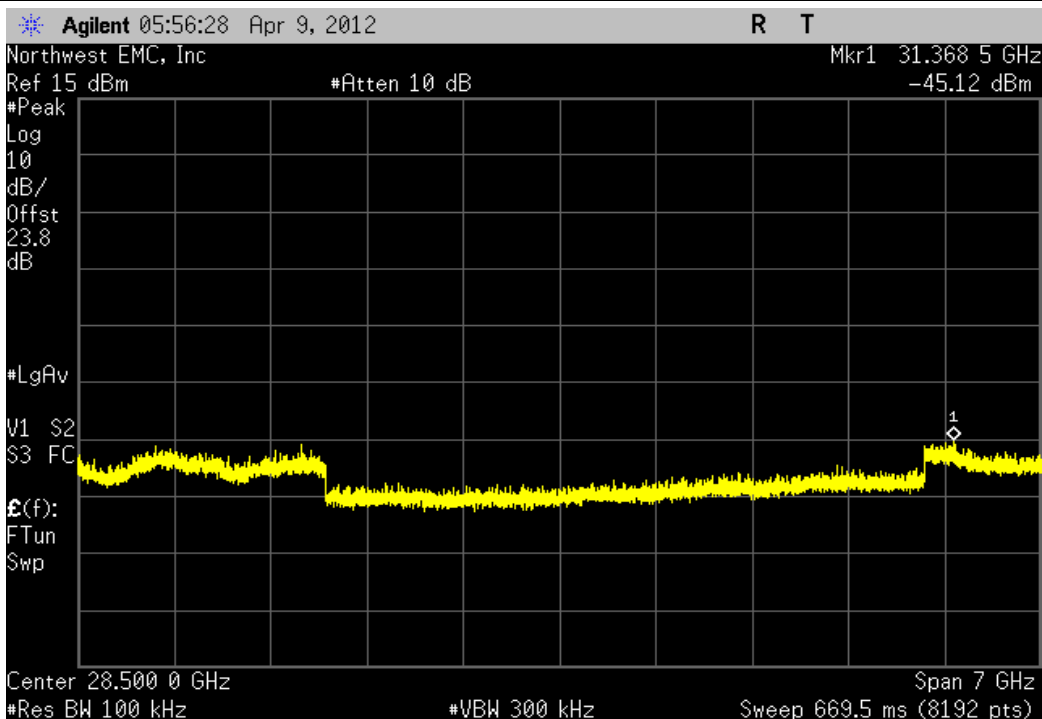
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-32.76 dBc	≤ -20 dBc	Pass	



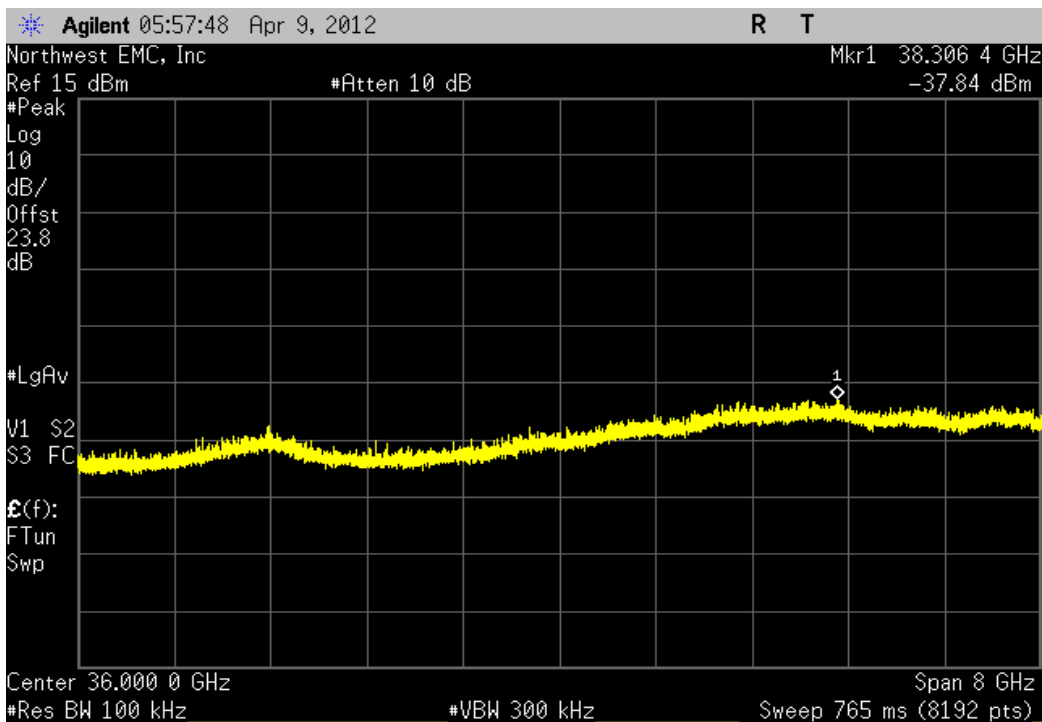
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-29.47 dBc	≤ -20 dBc	Pass	



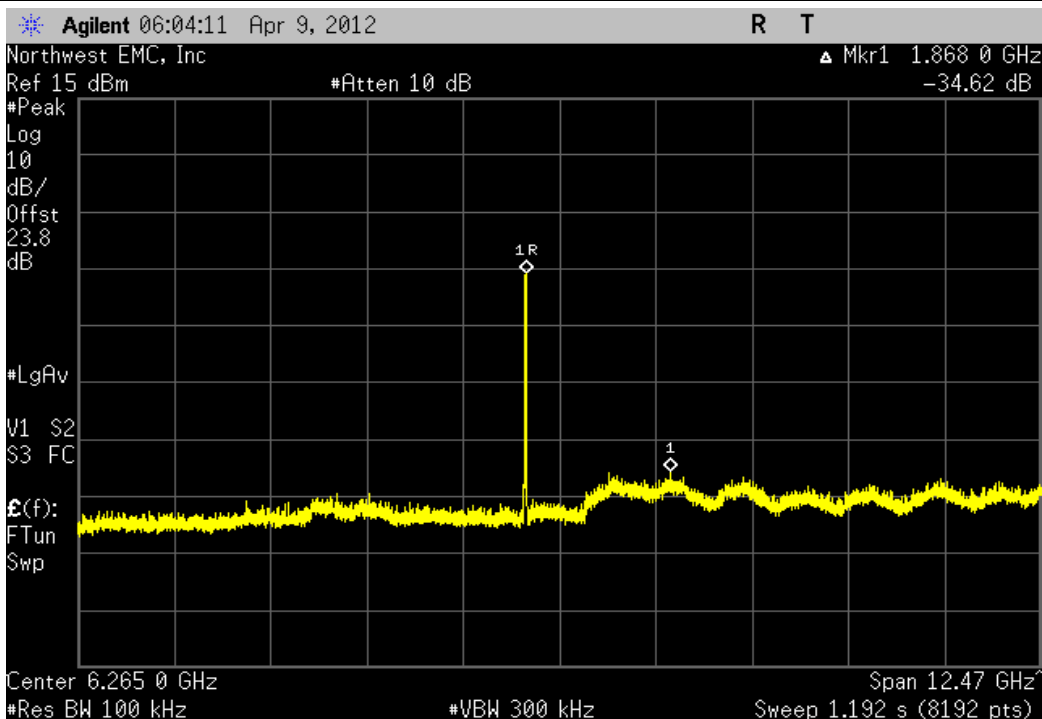
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-28.03 dBc	≤ -20 dBc	Pass	



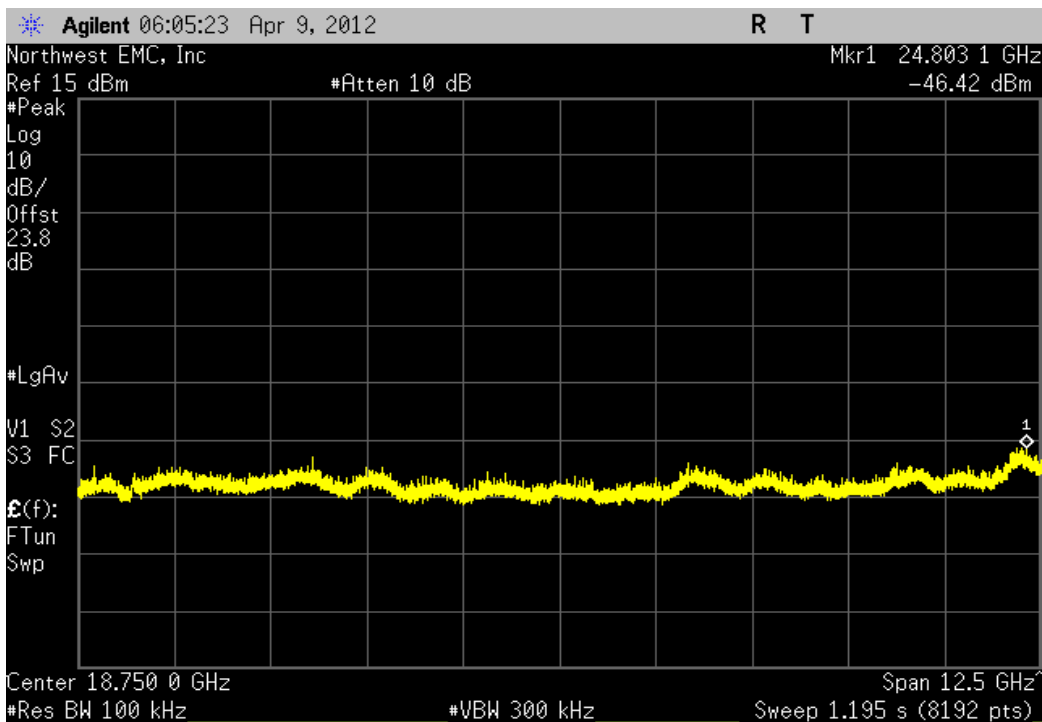
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-20.75 dBc	≤ -20 dBc	Pass	



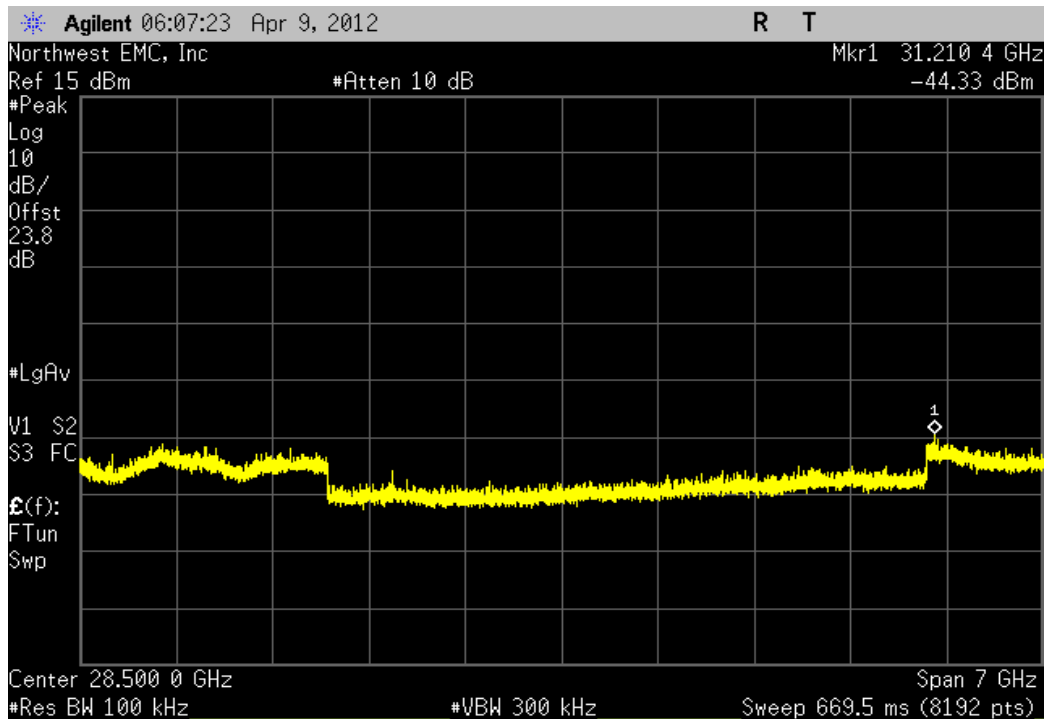
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-34.62 dBc	≤ -20 dBc	Pass	



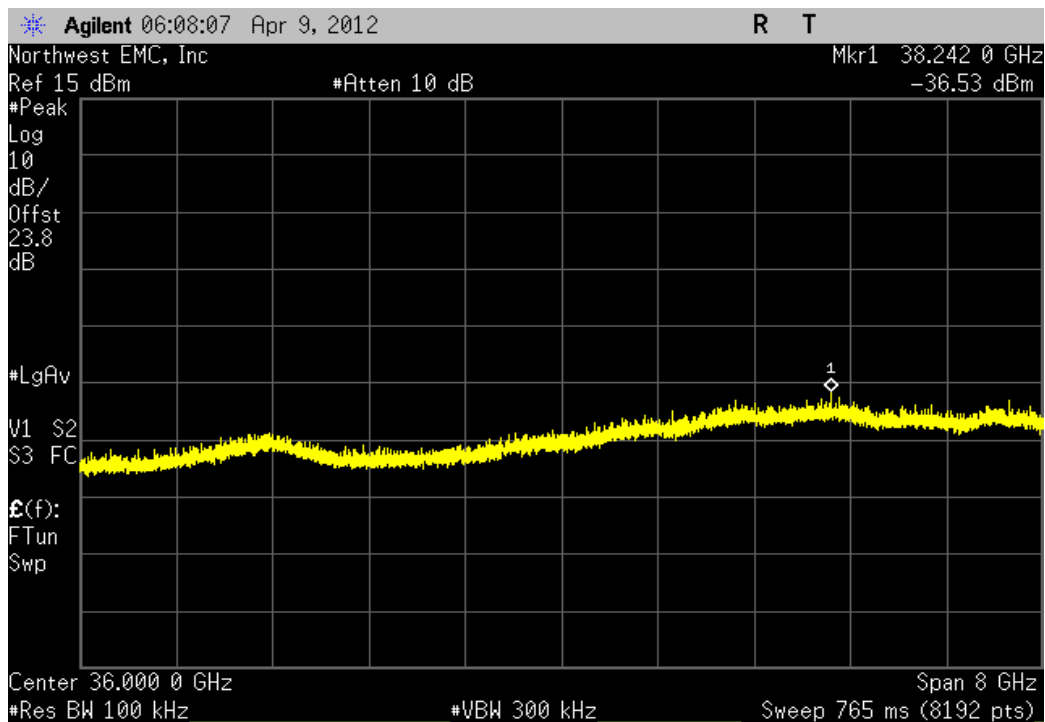
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-30.5 dBc	≤ -20 dBc	Pass	



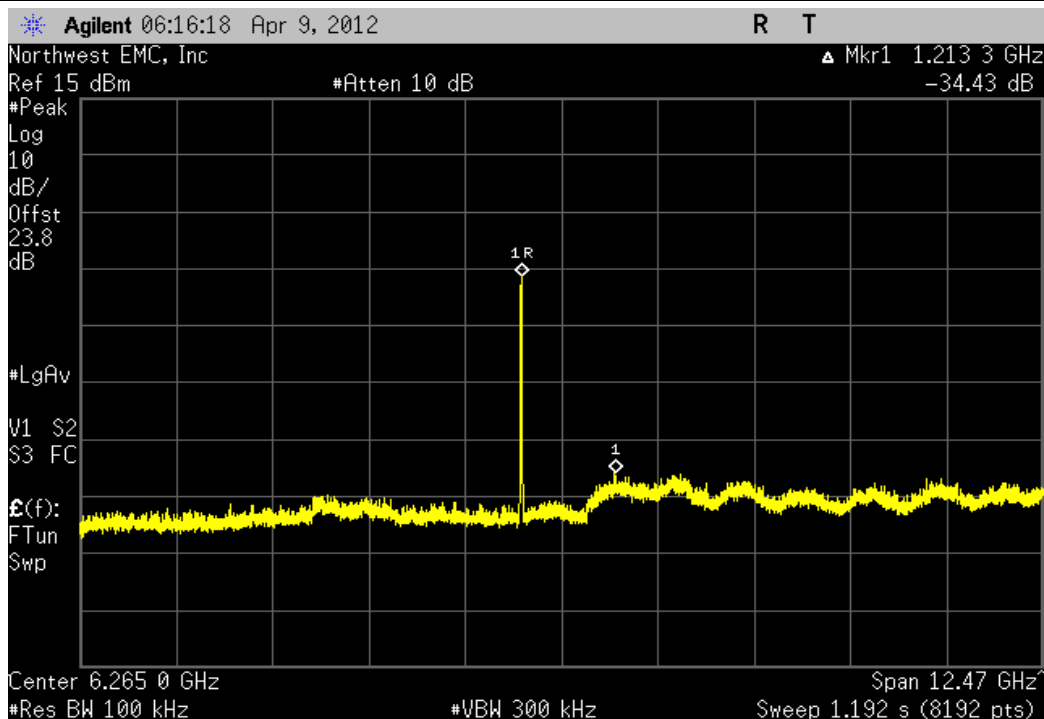
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-28.41 dBc	≤ -20 dBc	Pass	



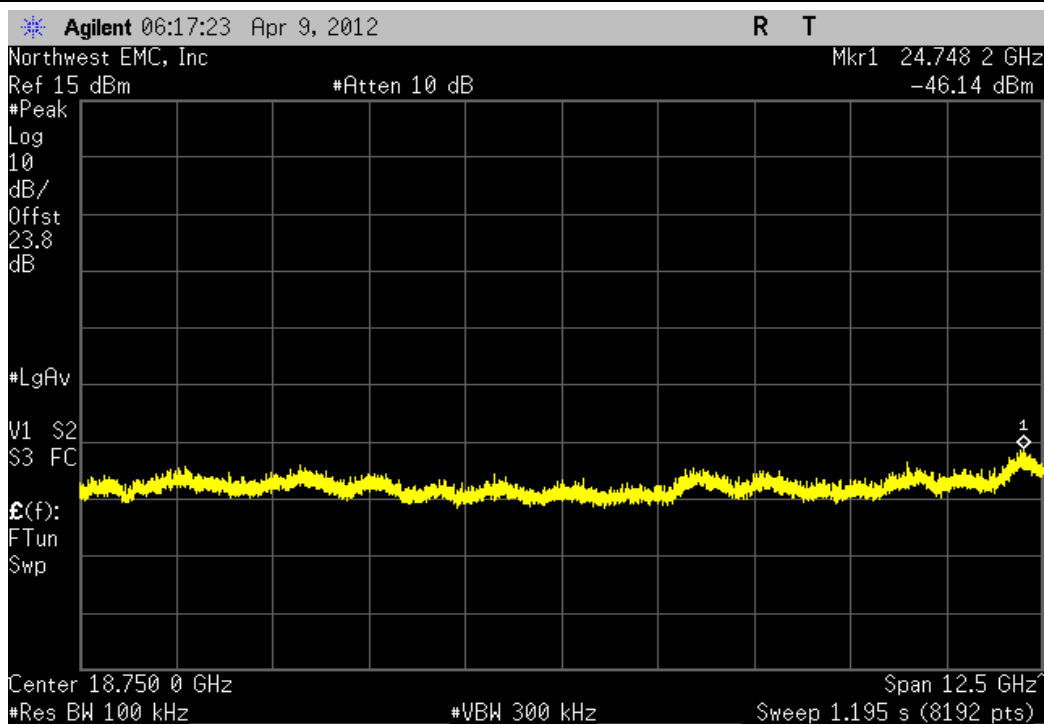
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-20.62 dBc	≤ -20 dBc	Pass	



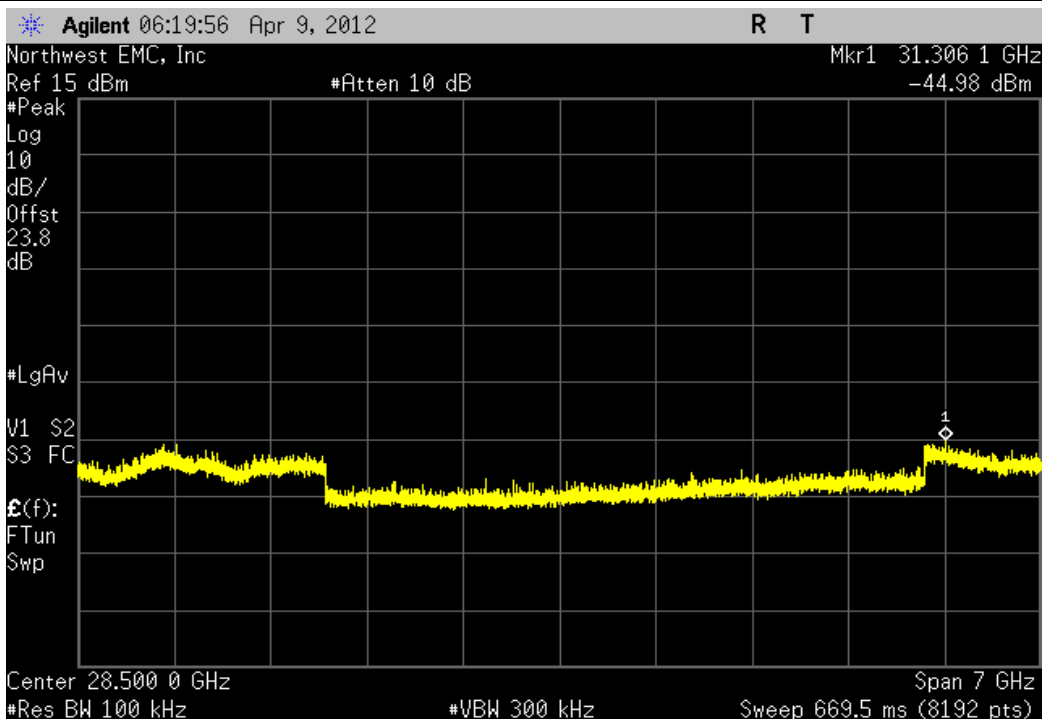
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-34.43 dBc	≤ -20 dBc	Pass	



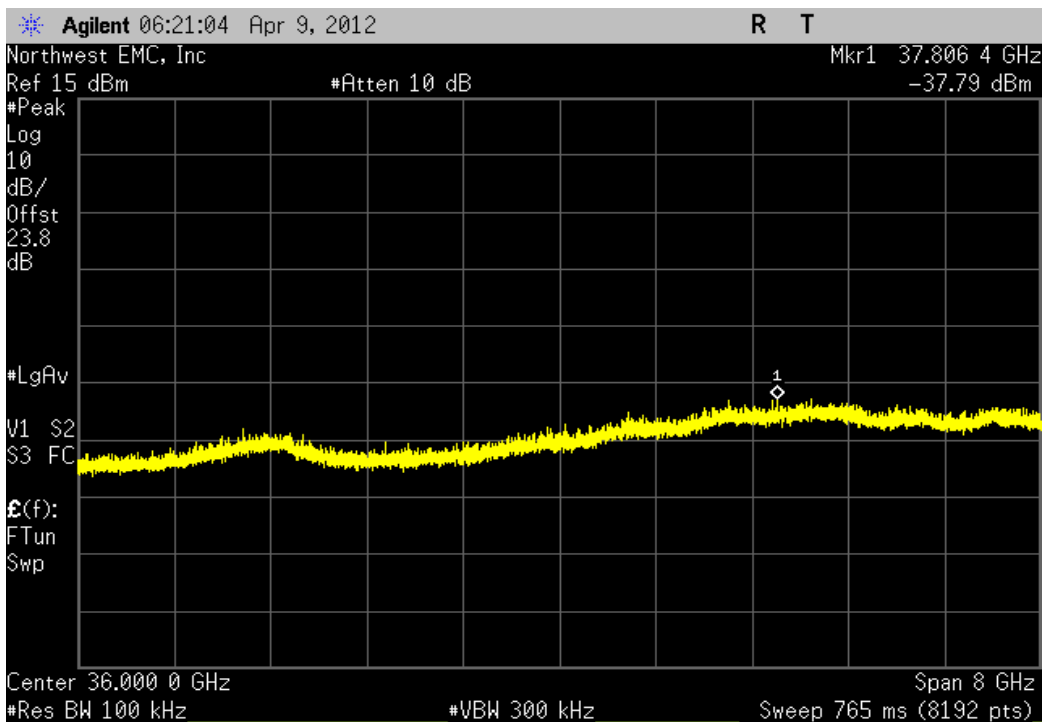
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-29.76 dBc	≤ -20 dBc	Pass	



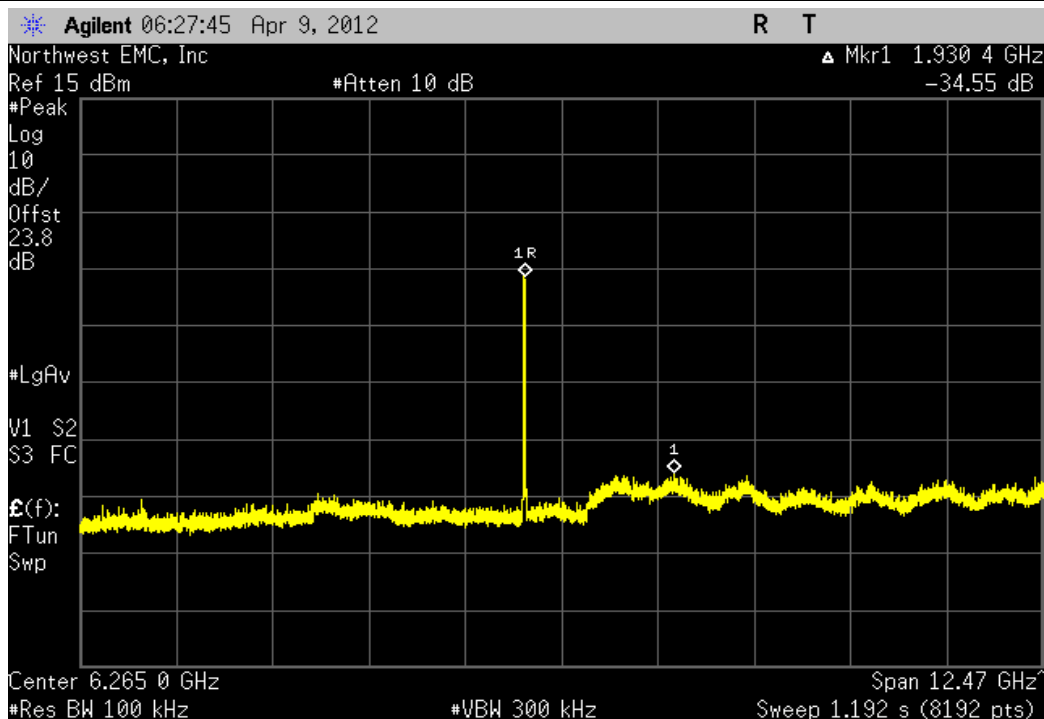
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-28.6 dBc	≤ -20 dBc	Pass	



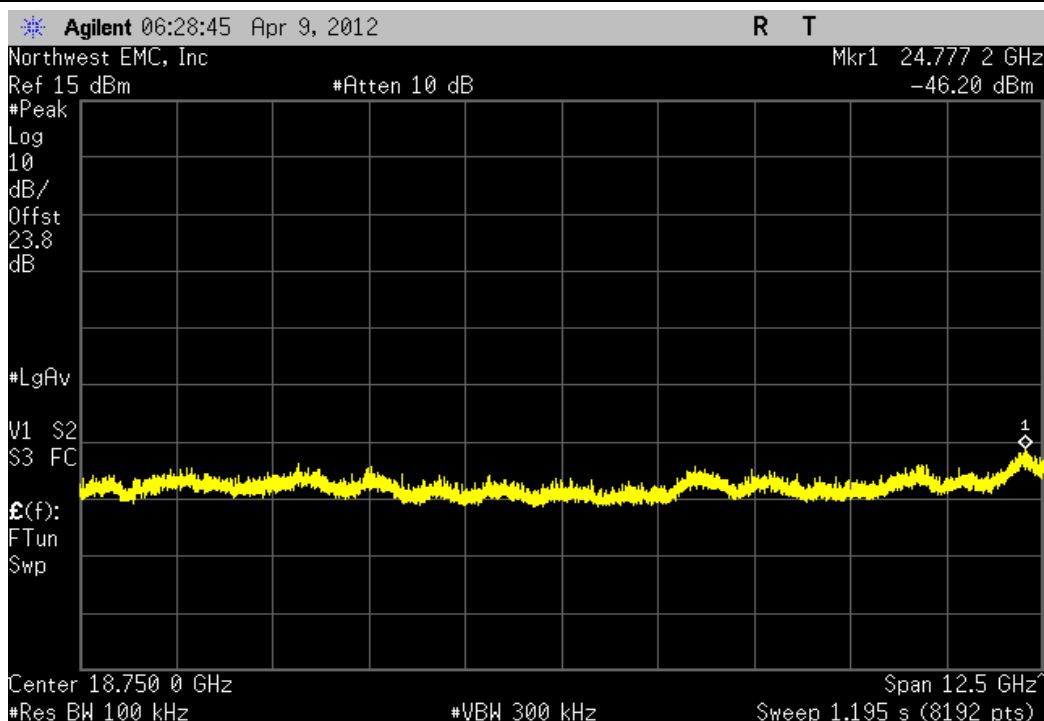
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-21.41 dBc	≤ -20 dBc	Pass	



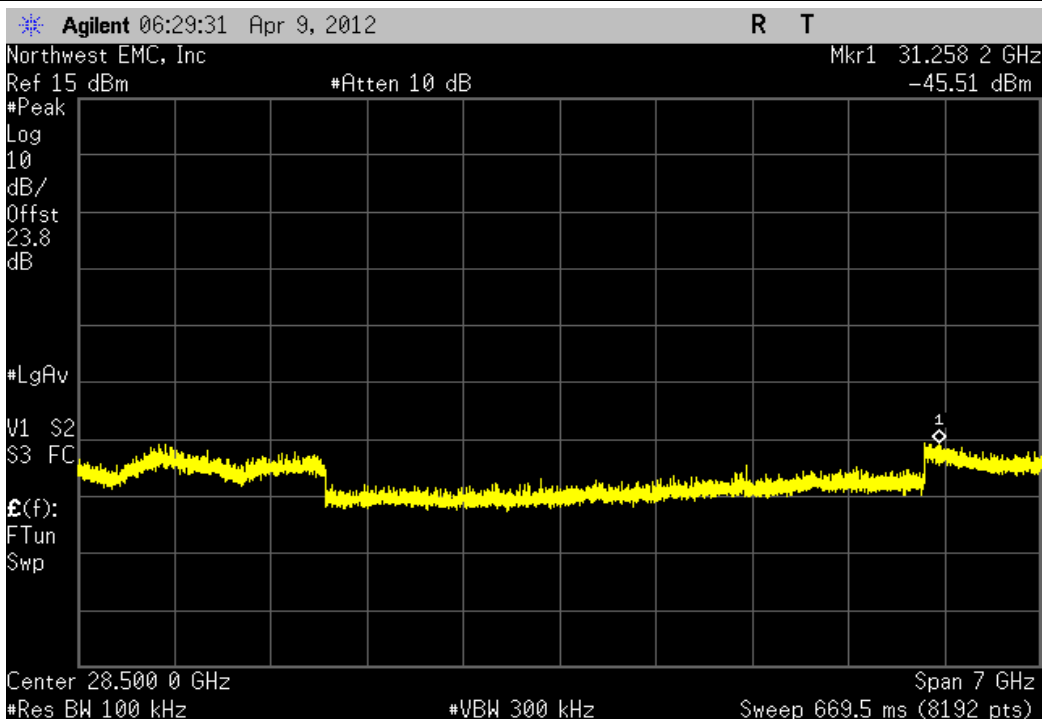
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-34.56 dBc	≤ -20 dBc	Pass	



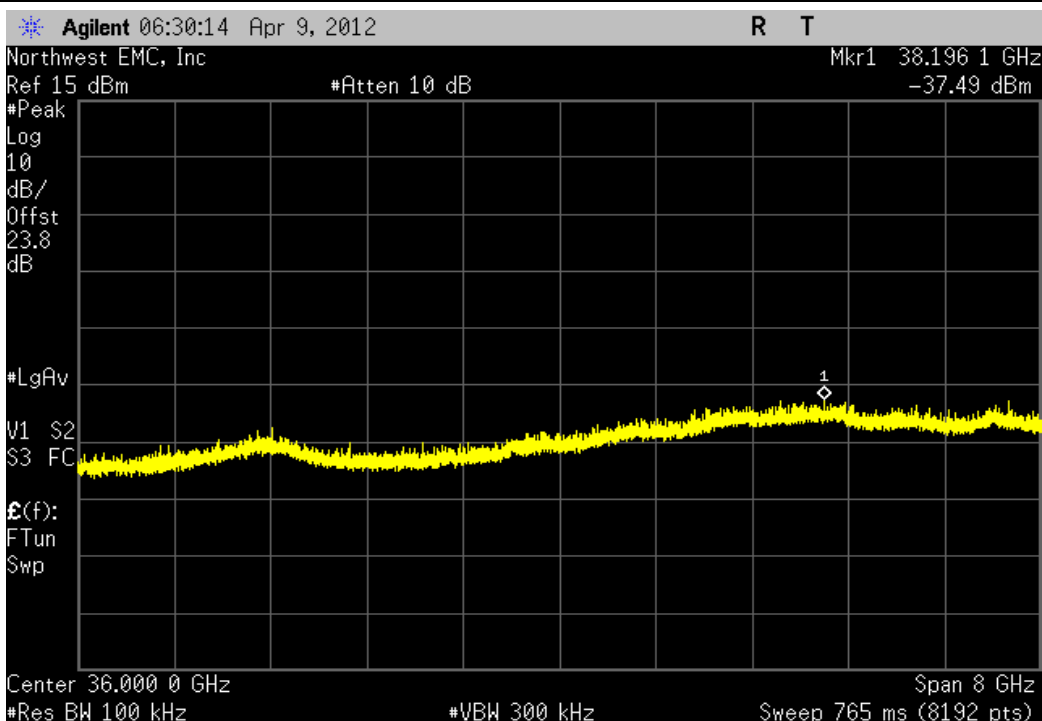
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-29.96 dBc	≤ -20 dBc	Pass	



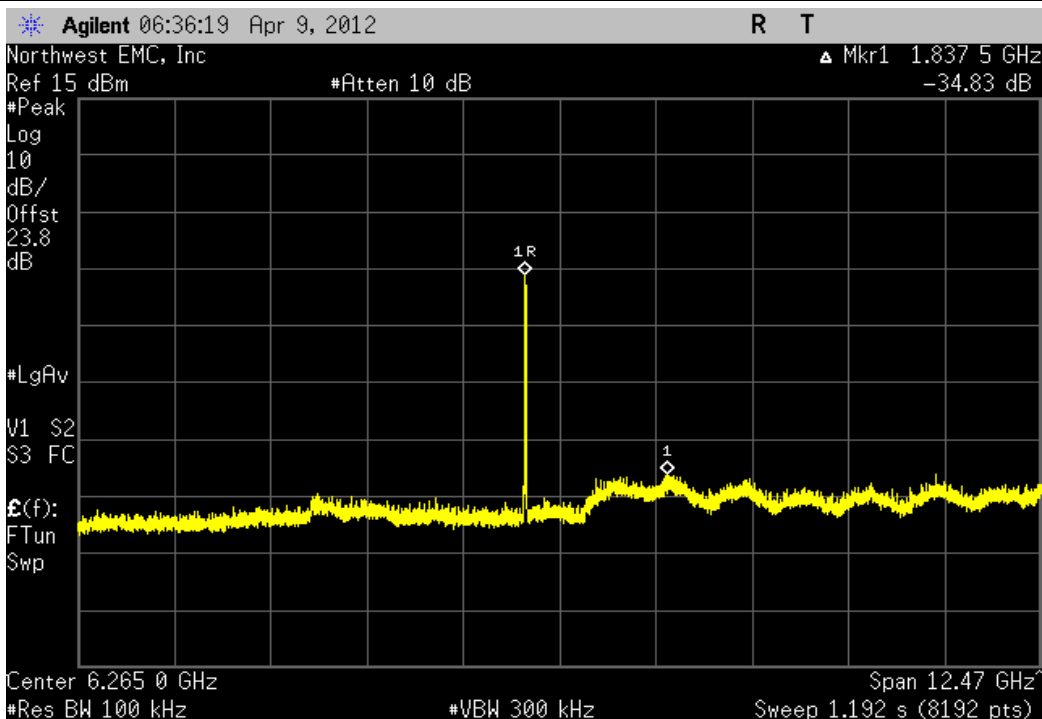
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-29.27 dBc	≤ -20 dBc	Pass	



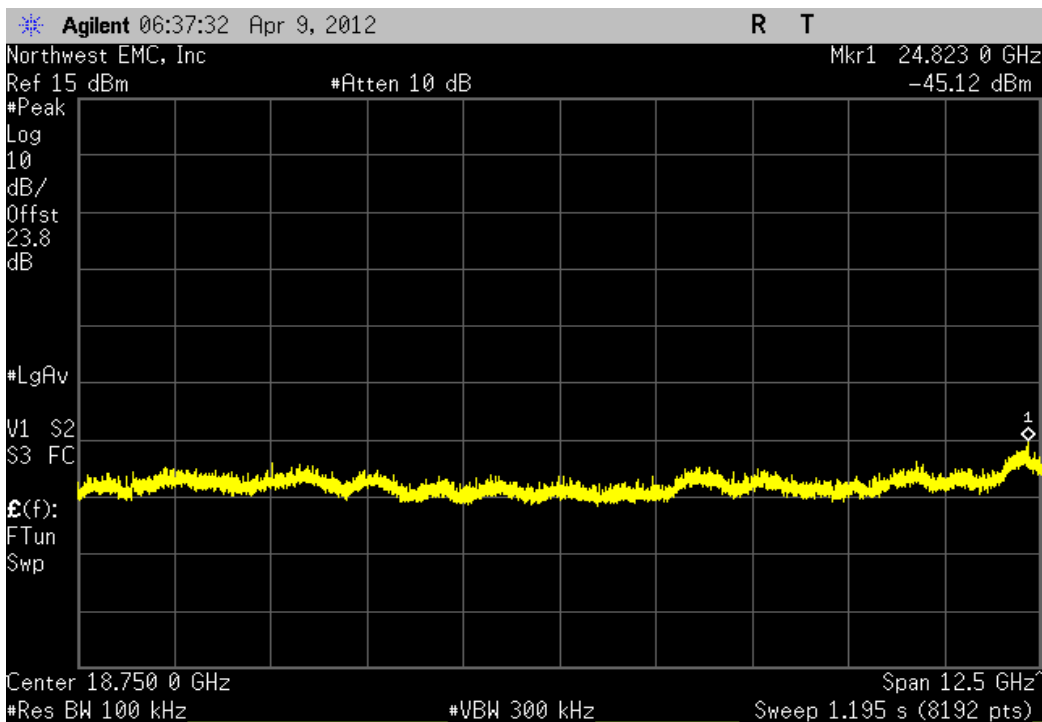
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-21.24 dBc	≤ -20 dBc	Pass	



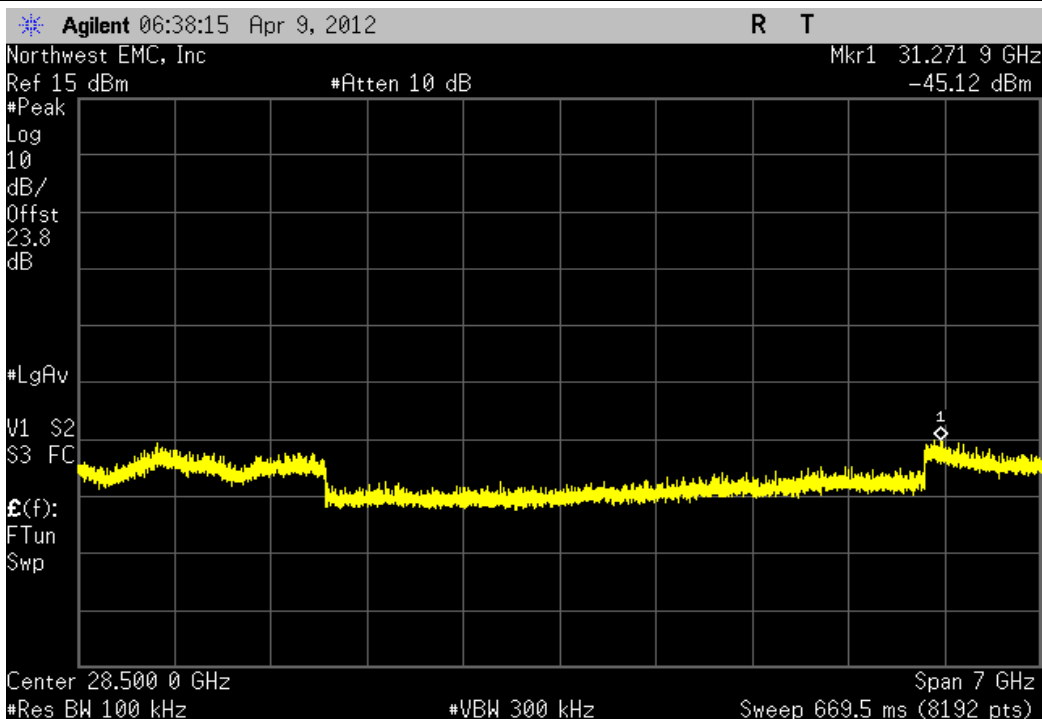
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-34.83 dBc	≤ -20 dBc	Pass	



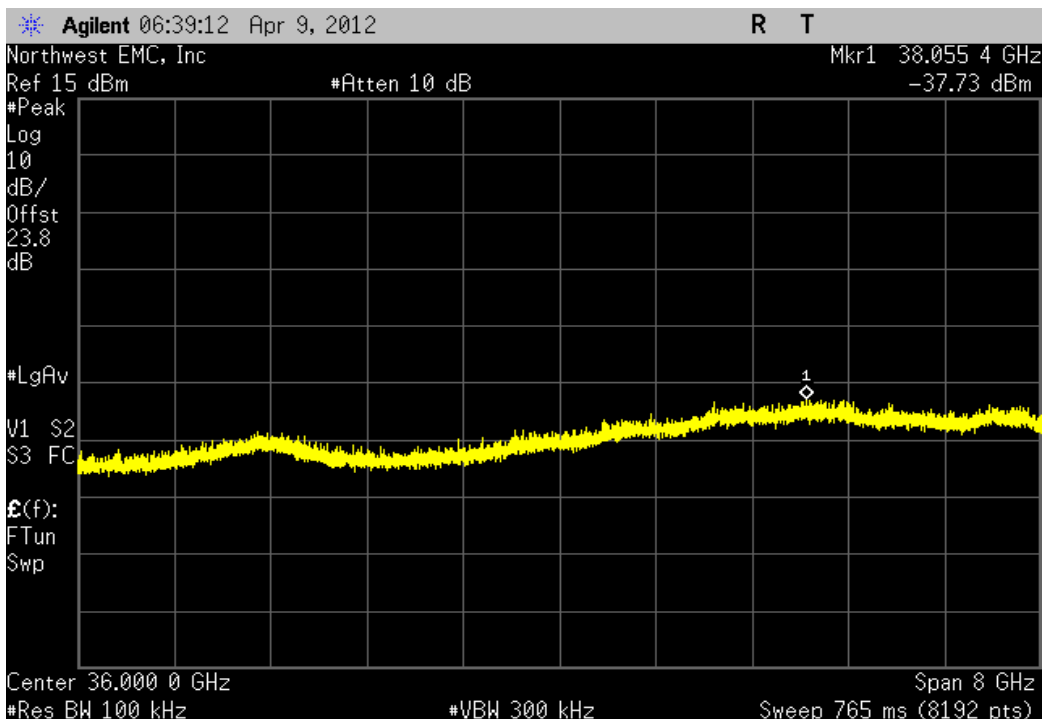
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-28.97 dBc	≤ -20 dBc	Pass	



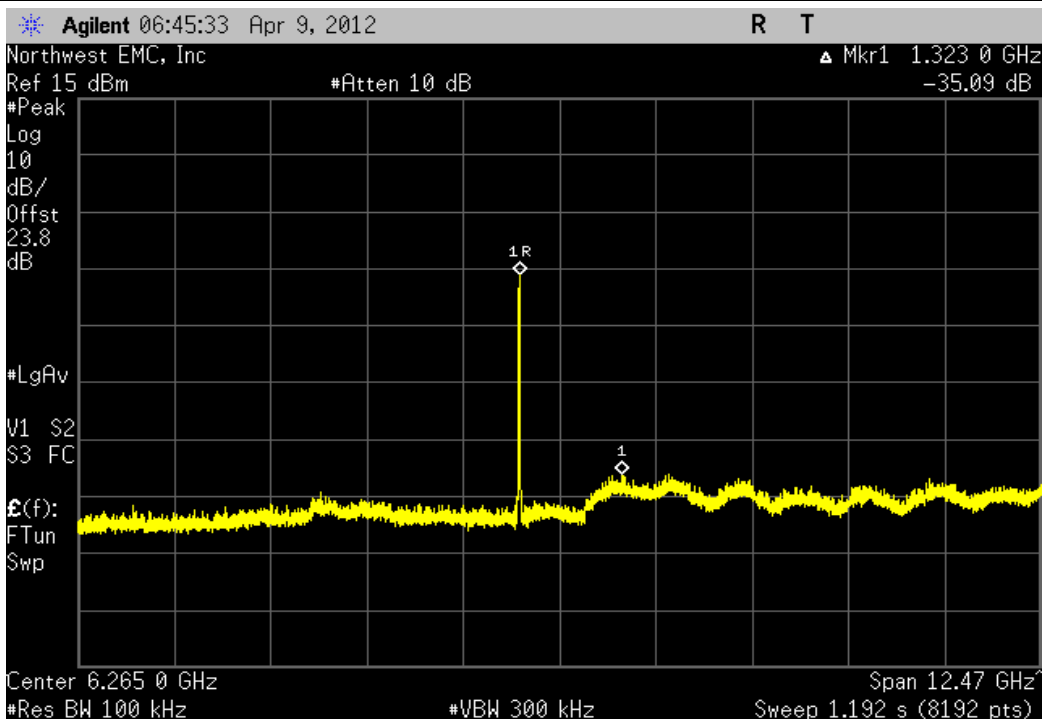
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-28.97 dBc	≤ -20 dBc	Pass	



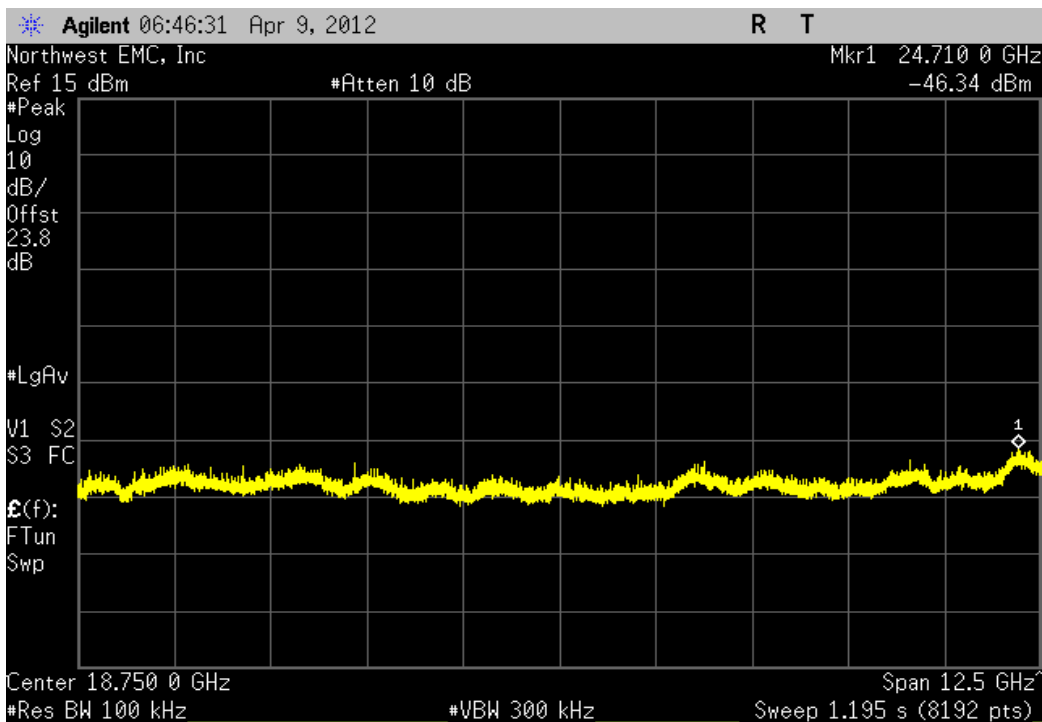
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-21.58 dBc	≤ -20 dBc	Pass	



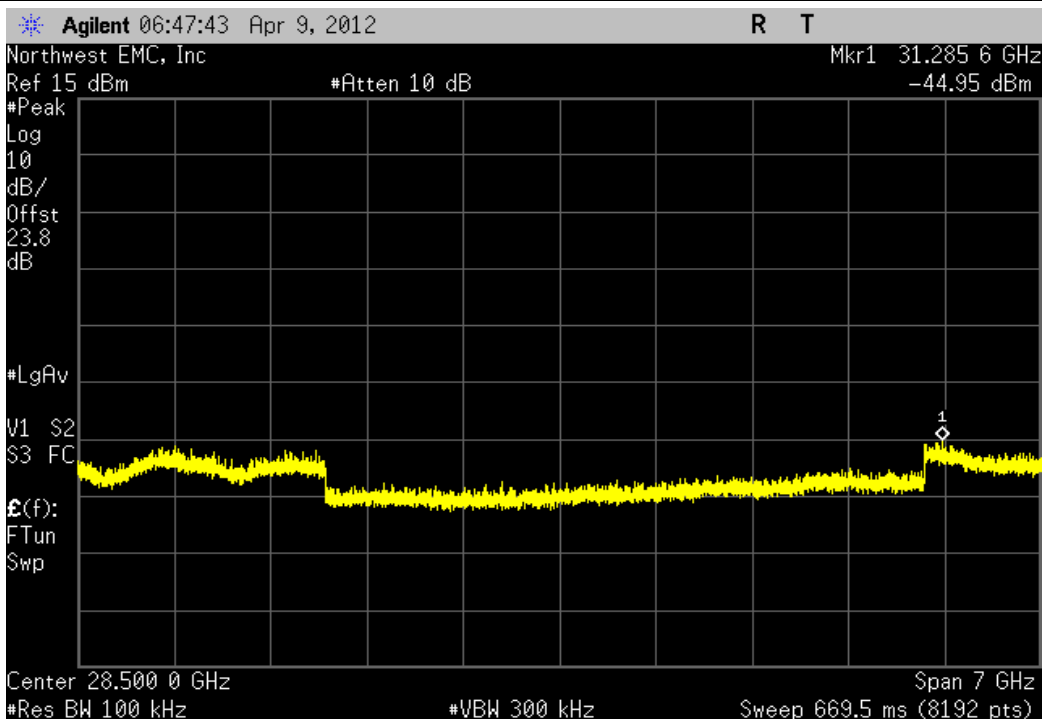
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-35.09 dBc	≤ -20 dBc	Pass	



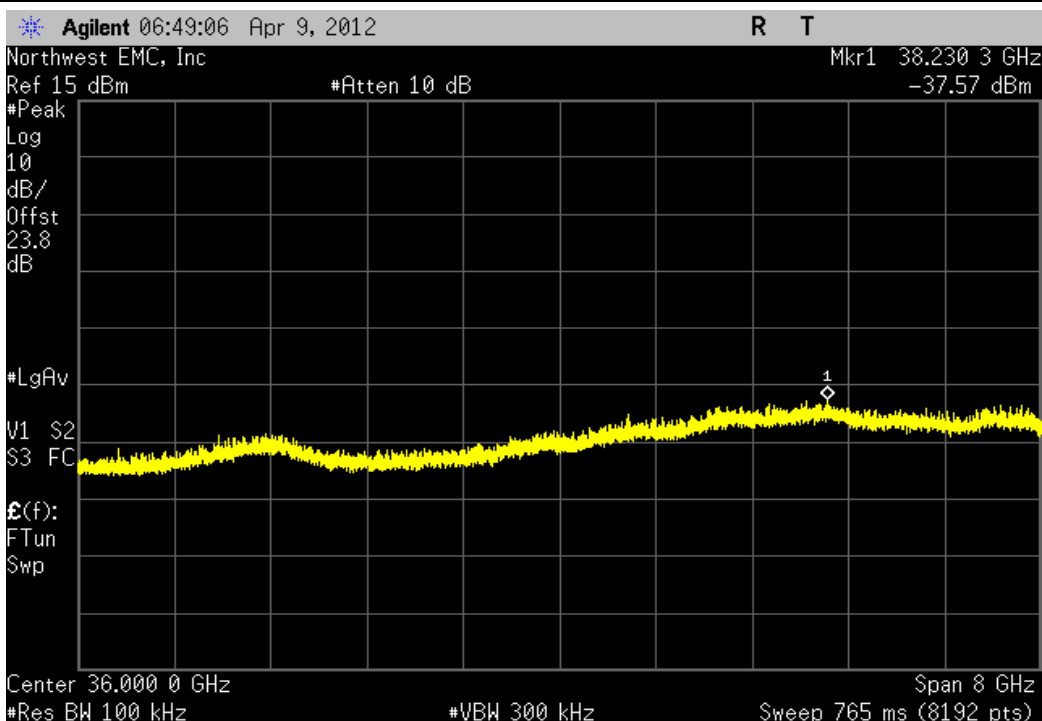
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-30.38 dBc	≤ -20 dBc	Pass	



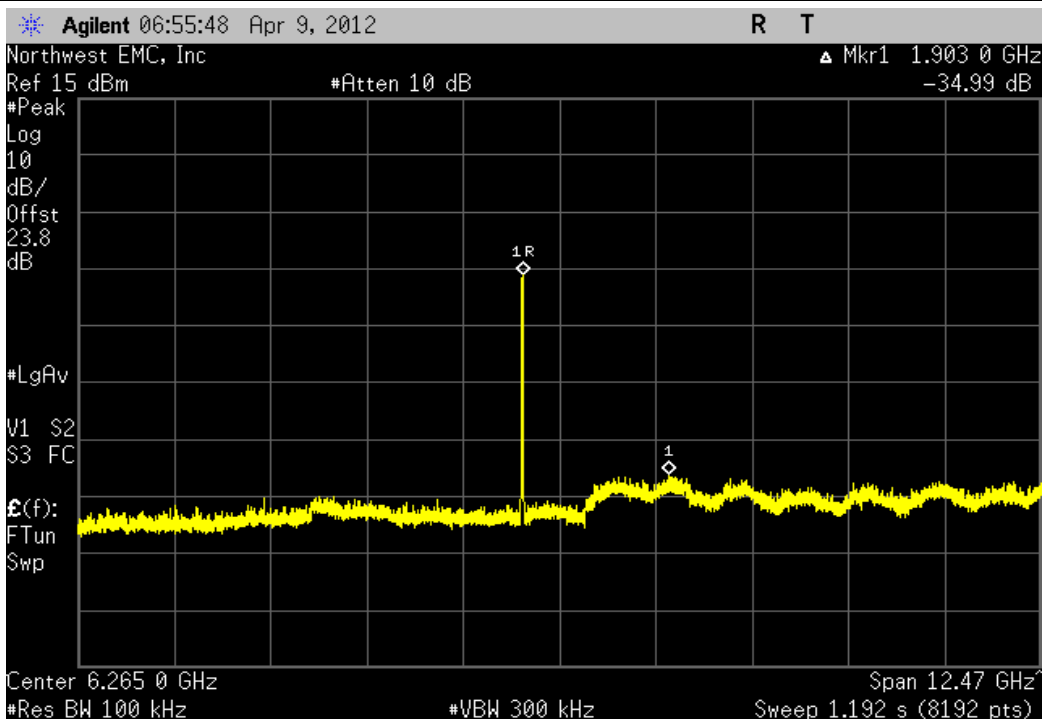
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-28.99 dBc	≤ -20 dBc	Pass



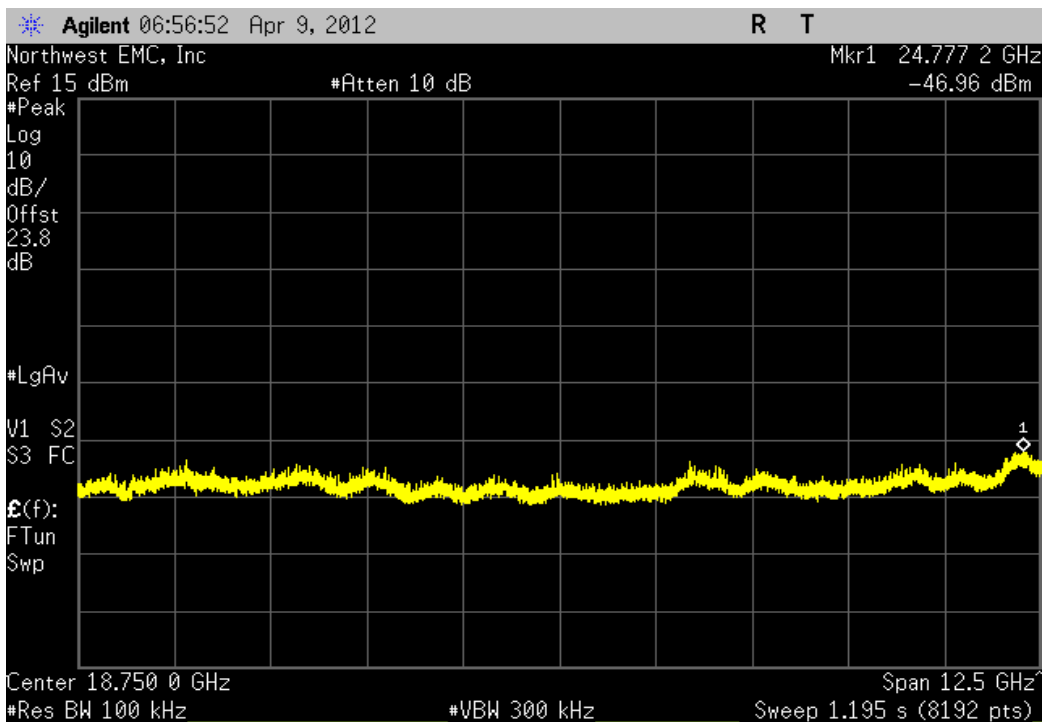
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-21.61 dBc	≤ -20 dBc	Pass



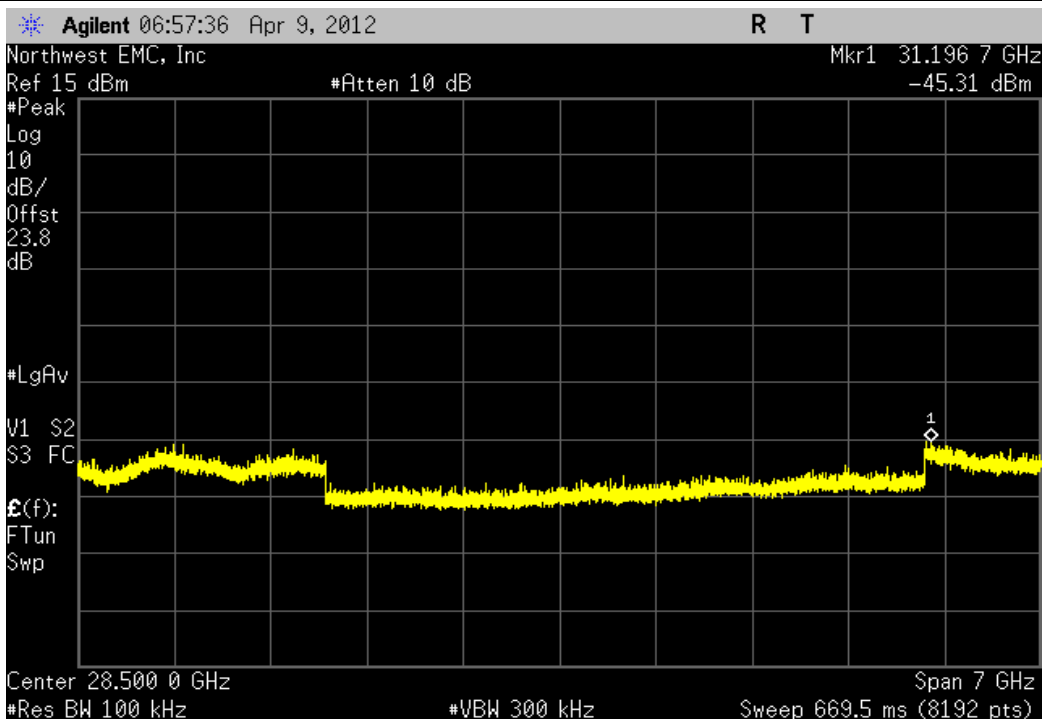
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-34.99 dBc	≤ -20 dBc	Pass



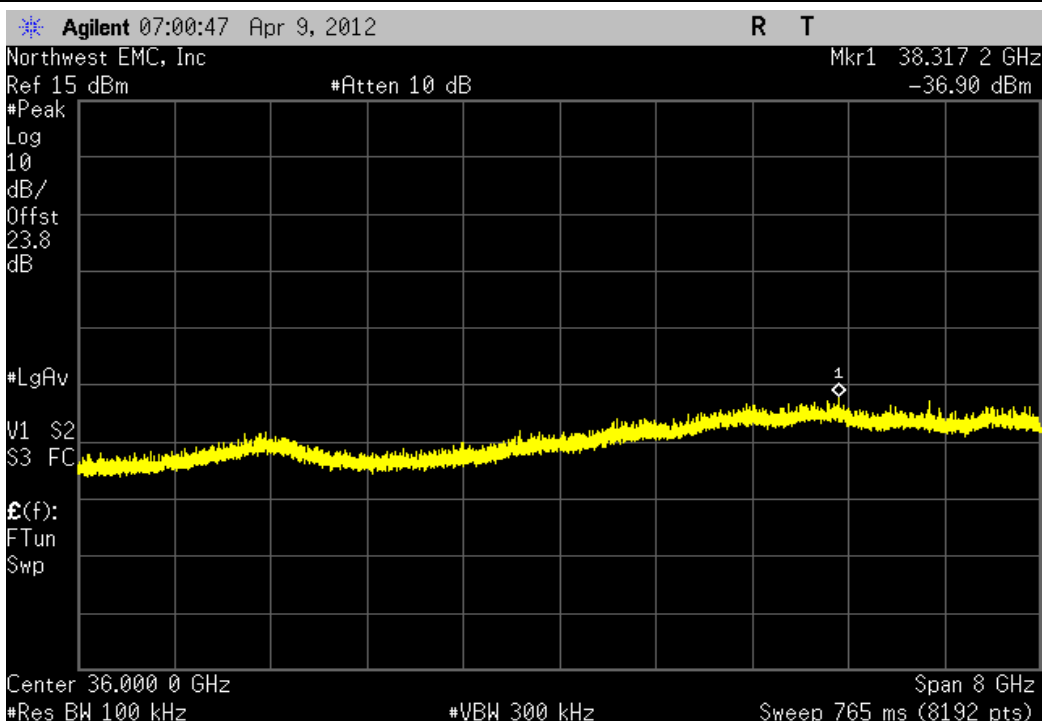
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-30.86 dBc	≤ -20 dBc	Pass



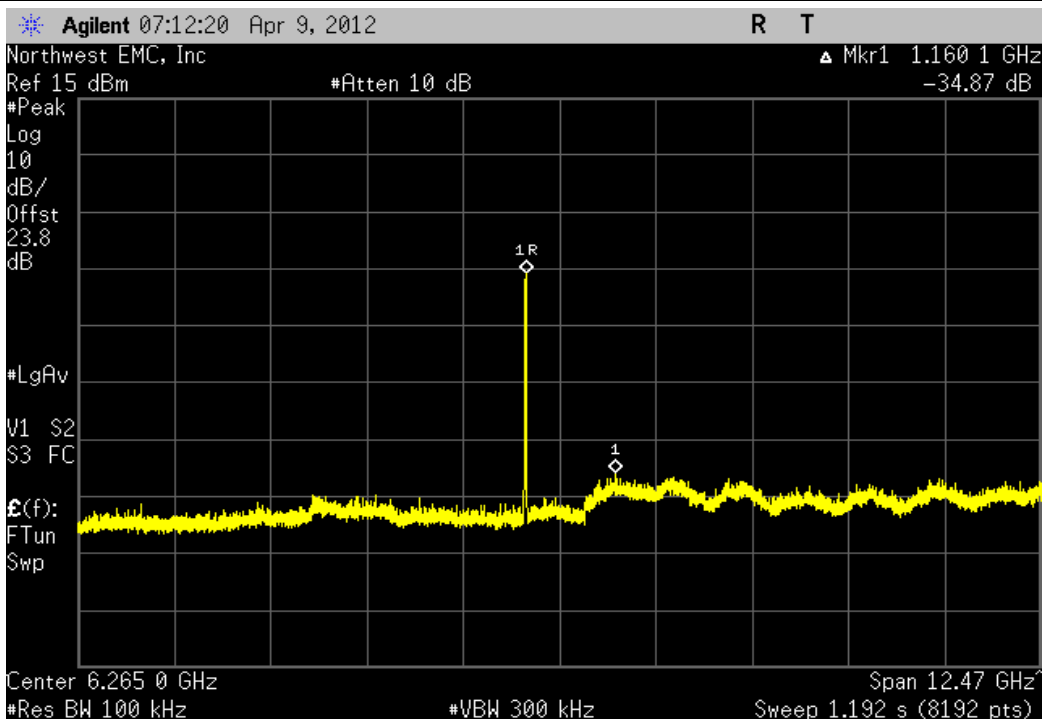
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-29.21 dBc	≤ -20 dBc	Pass	



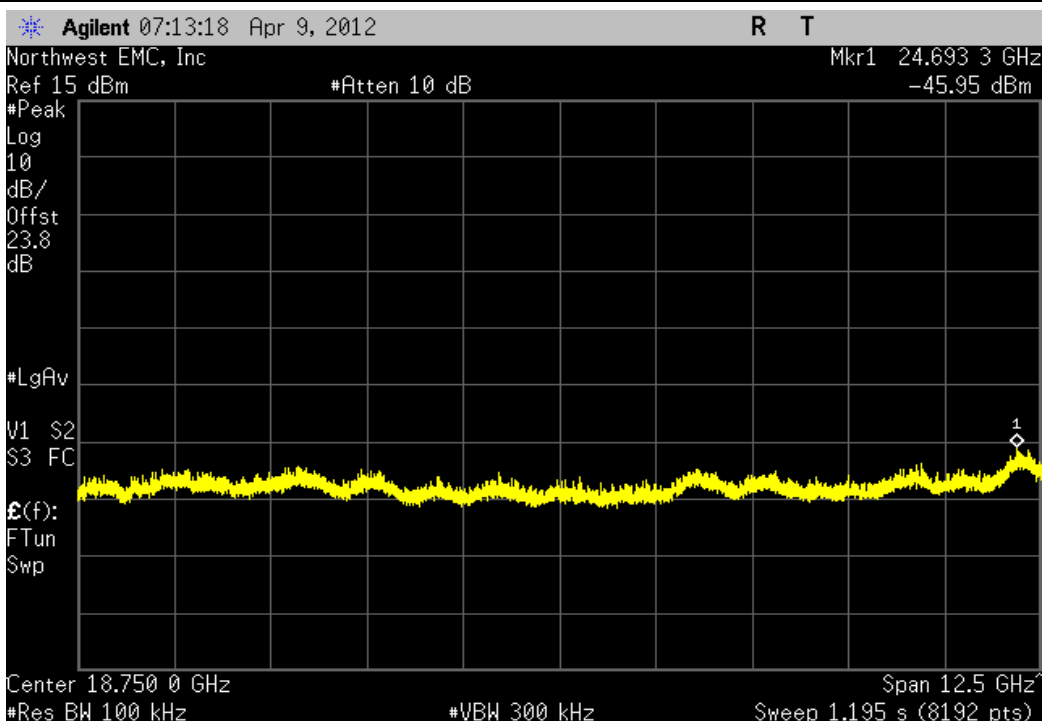
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-20.8 dBc	≤ -20 dBc	Pass	



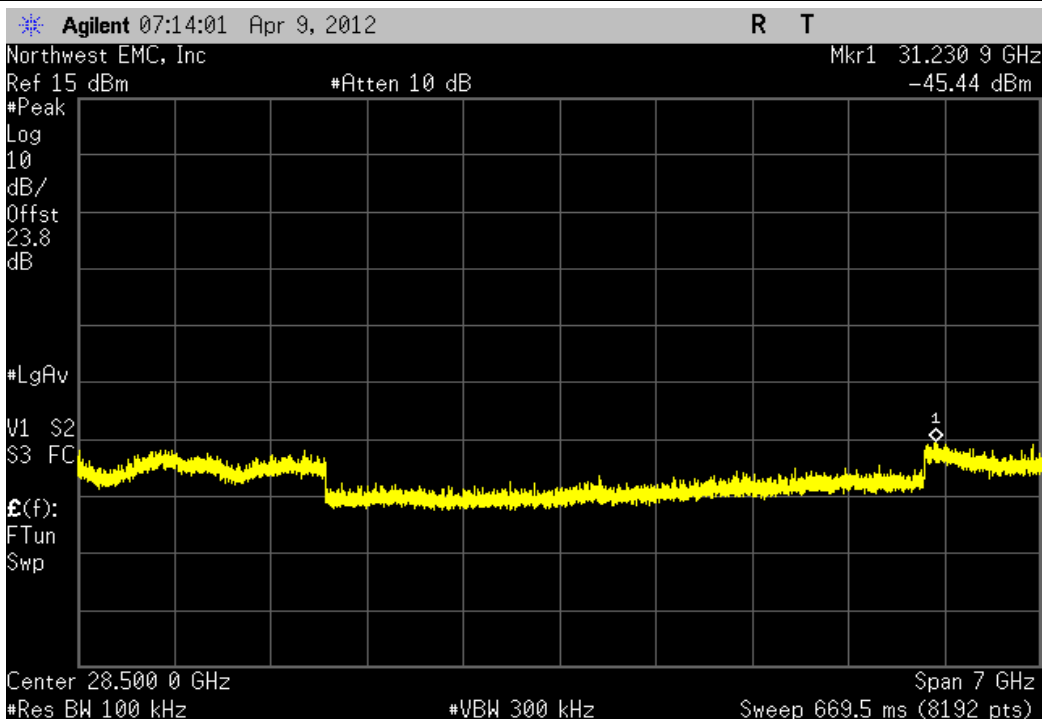
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-34.87 dBc	≤ -20 dBc	Pass	



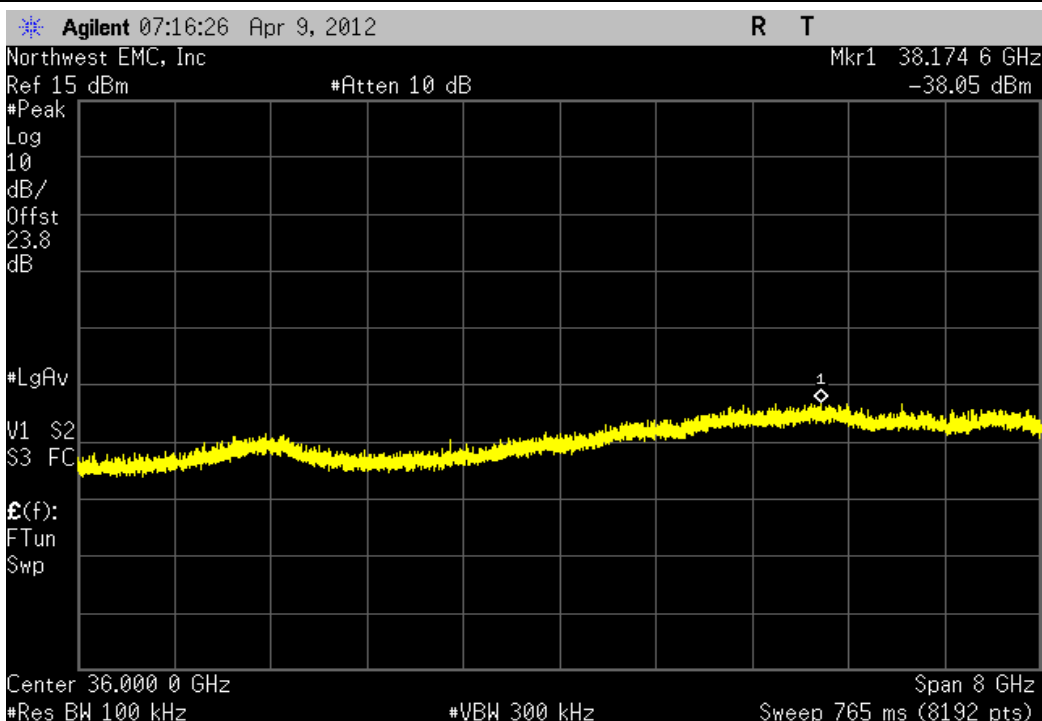
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-30.1 dBc	≤ -20 dBc	Pass	



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-29.59 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	-22.2 dBc	≤ -20 dBc	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
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The peak 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, March 23, 2005, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 10^3 = 500$ seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."

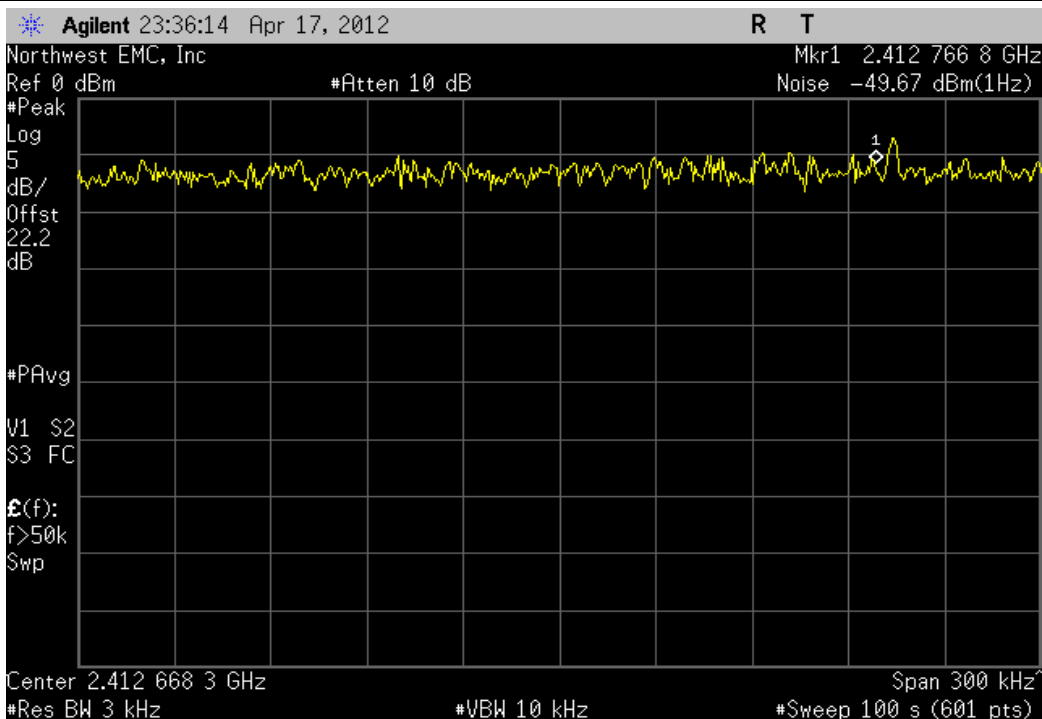


Power Spectral Density

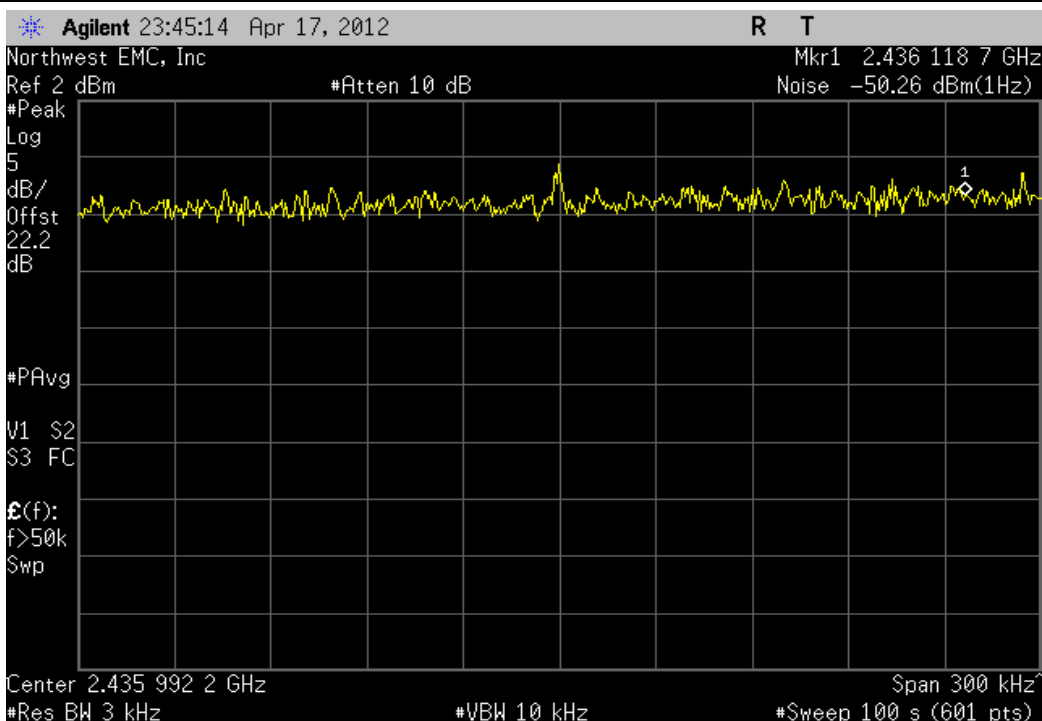
XMit 2012.04.06
PsaTx 2012.01.25

EUT: RAD7CA			Work Order: MASI0095		
Serial Number: 34996 Rev C			Date: 04/27/12		
Customer: Masimo Corporation			Temperature: 22.84 C°C		
Attendees: none			Humidity: 38%		
Project: None			Barometric Pres.: 1014.4		
Tested by: Jaemi Suh		Power: 110VAC/60Hz	Job Site: OC10		
TEST SPECIFICATIONS			Test Method		
FCC 15.247:2012			ANSI C63.10:2009		
COMMENTS					
Power Setting = 99. Port 2					
DEVIATIONS FROM TEST STANDARD					
Configuration #	1				
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz) Result
2400 MHz - 2483.5 MHz Band					
802.11(b) 1 Mbps					
	Low Channel 1, 2412 MHz	-49.668	34.8	-14.868	8 Pass
	Mid Channel 6, 2437 MHz	-50.258	34.8	-15.458	8 Pass
	High Channel 11, 2462 MHz	-48.982	34.8	-14.182	8 Pass
802.11(b) 11 Mbps					
	Low Channel 1, 2412 MHz	-51.063	34.8	-16.263	8 Pass
	Mid Channel 6, 2437 MHz	-50.469	34.8	-15.669	8 Pass
	High Channel 11, 2462 MHz	-50.15	34.8	-15.35	8 Pass
802.11(g) 6 Mbps					
	Low Channel 1, 2412 MHz	-54.072	34.8	-19.272	8 Pass
	Mid Channel 6, 2437 MHz	-53.522	34.8	-18.722	8 Pass
	High Channel 11, 2462 MHz	-53.144	34.8	-18.344	8 Pass
802.11(g) 36 Mbps					
	Low Channel 1, 2412 MHz	-53.832	34.8	-19.032	8 Pass
	Mid Channel 6, 2437 MHz	-53.473	34.8	-18.673	8 Pass
	High Channel 11, 2462 MHz	-53.393	34.8	-18.593	8 Pass
802.11(g) 54 Mbps					
	Low Channel 1, 2412 MHz	-54.421	34.8	-19.621	8 Pass
	Mid Channel 6, 2437 MHz	-53.906	34.8	-19.106	8 Pass
	High Channel 11, 2462 MHz	-53.334	34.8	-18.534	8 Pass
5725 MHz - 5850 MHz Band					
802.11(a) 6 Mbps					
	Low Channel 149, 5745 MHz	-59.353	34.8	-24.553	8 Pass
	Mid Channel 157, 5785 MHz	-59.445	34.8	-24.645	8 Pass
	High Channel 165, 5825 MHz	-59.785	34.8	-24.985	8 Pass
802.11(a) 36 Mbps					
	Low Channel 149, 5745 MHz	-59.197	34.8	-24.397	8 Pass
	Mid Channel 157, 5785 MHz	-59.366	34.8	-24.566	8 Pass
	High Channel 165, 5825 MHz	-59.74	34.8	-24.94	8 Pass
802.11(a) 54 Mbps					
	Low Channel 149, 5745 MHz	-59.208	34.8	-24.408	8 Pass
	Mid Channel 157, 5785 MHz	-59.355	34.8	-24.555	8 Pass
	High Channel 165, 5825 MHz	-59.786	34.8	-24.986	8 Pass

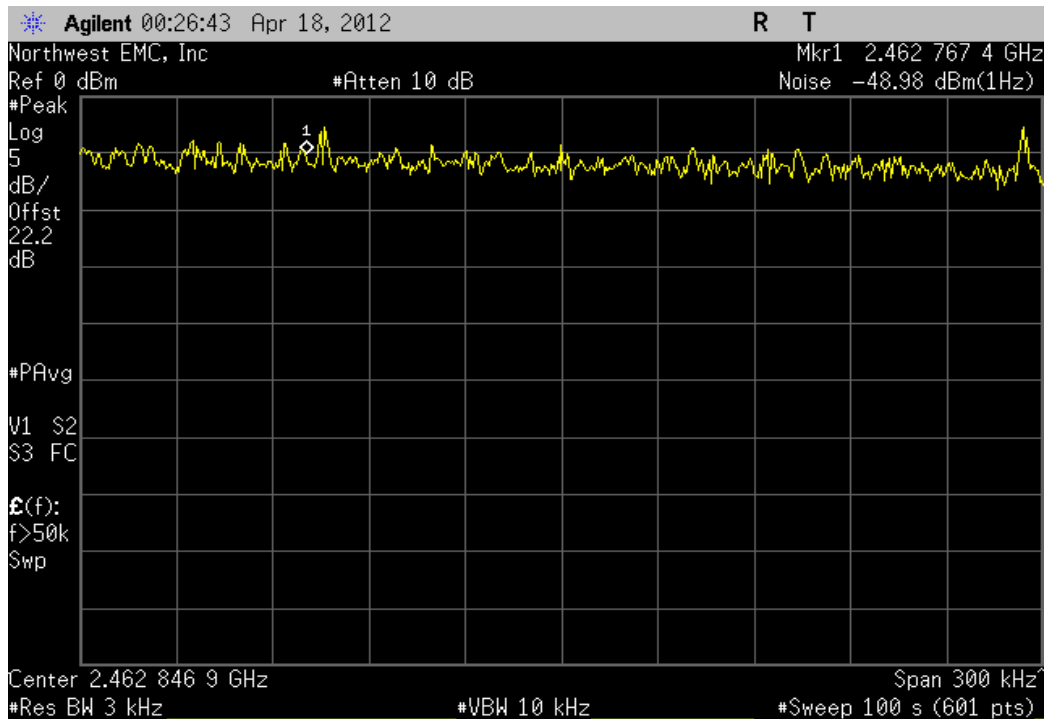
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-49.668	34.8	-14.868	8	Pass



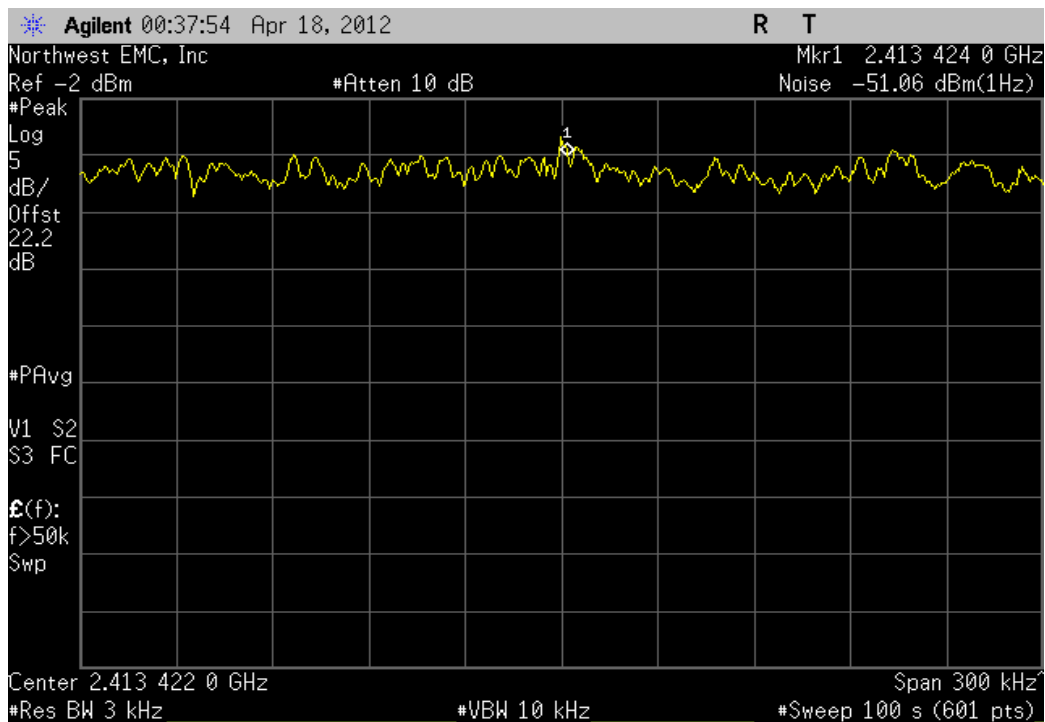
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-50.258	34.8	-15.458	8	Pass



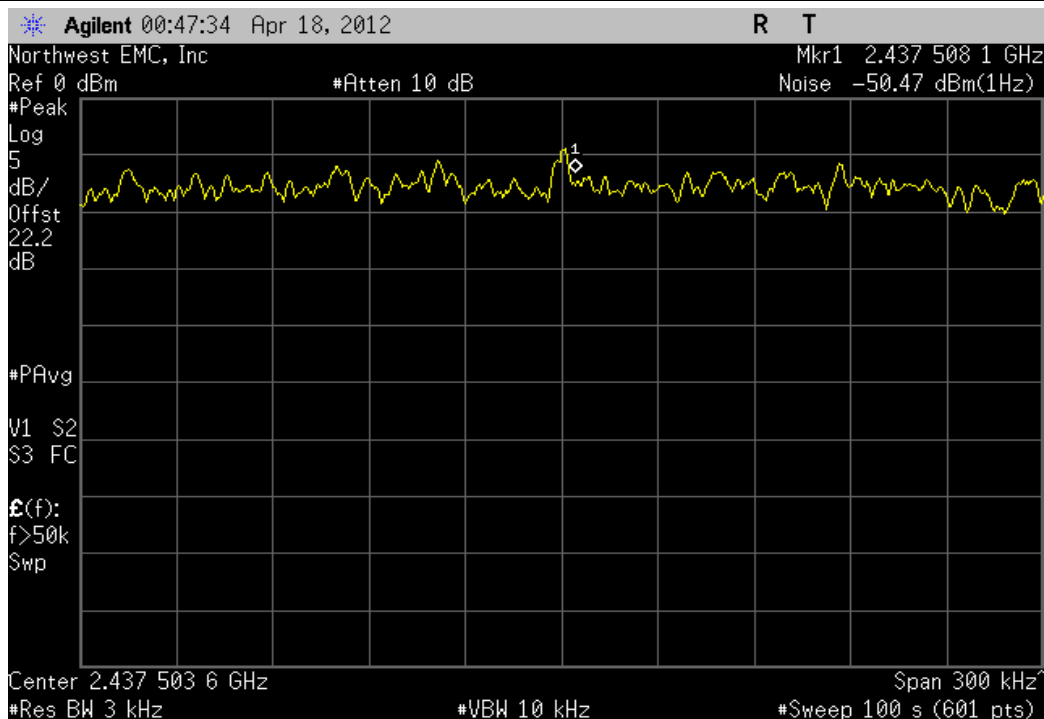
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-48.982	34.8	-14.182	8	Pass



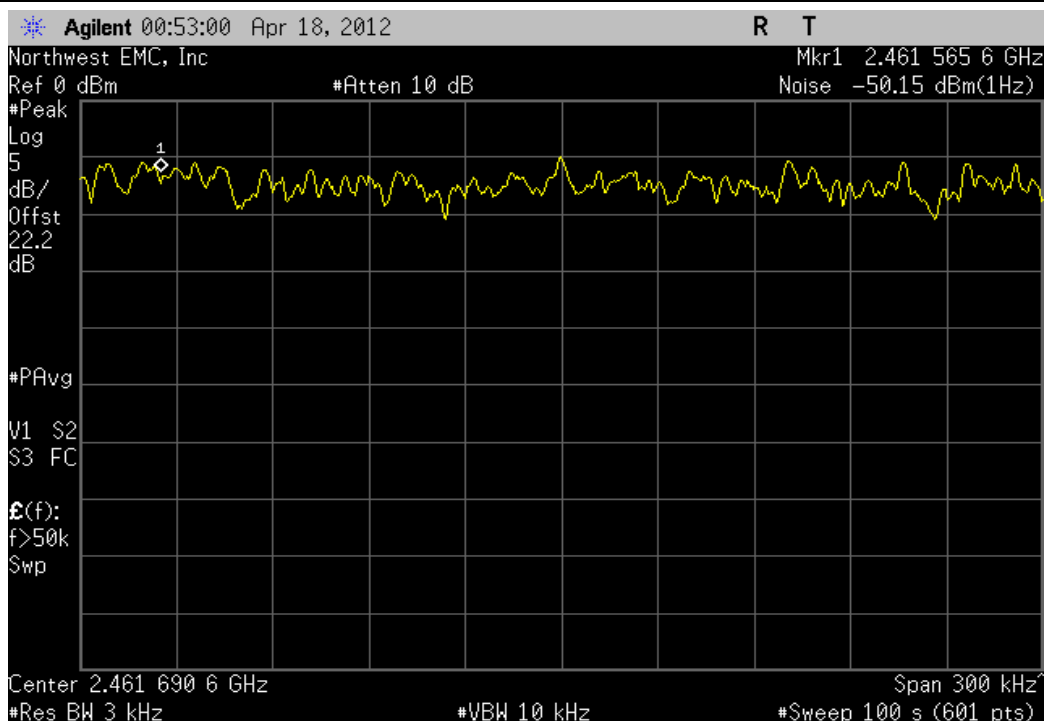
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-51.063	34.8	-16.263	8	Pass



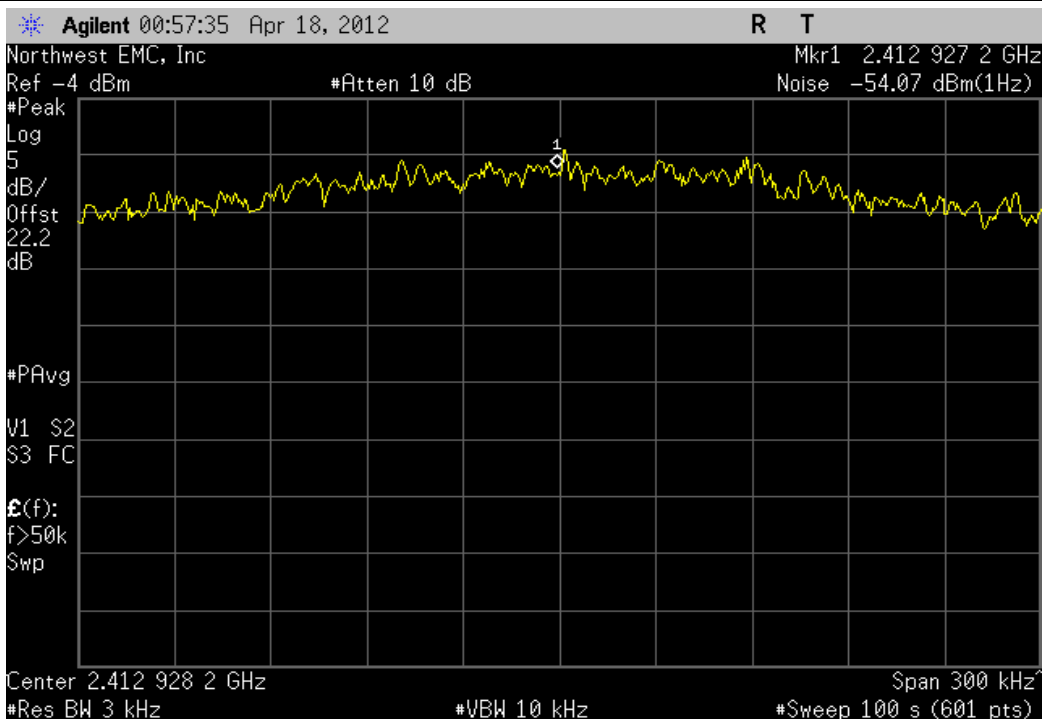
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz					
	Value	(dBm / Hz) To	Value	Limit	Result
	(dBm / Hz)	(dBm / 3 kHz)	(dBm / 3 kHz)	(dBm / 3 kHz)	
	-50.469	34.8	-15.669	8	Pass



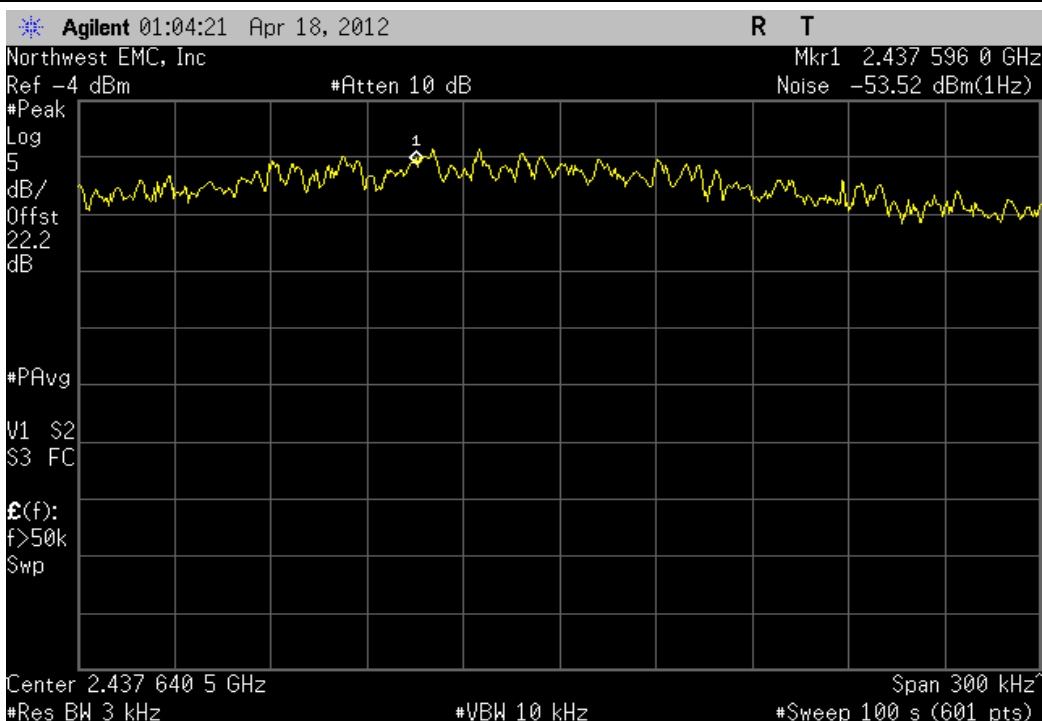
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz					
	Value	(dBm / Hz) To	Value	Limit	Result
	(dBm / Hz)	(dBm / 3 kHz)	(dBm / 3 kHz)	(dBm / 3 kHz)	
	-50.15	34.8	-15.35	8	Pass



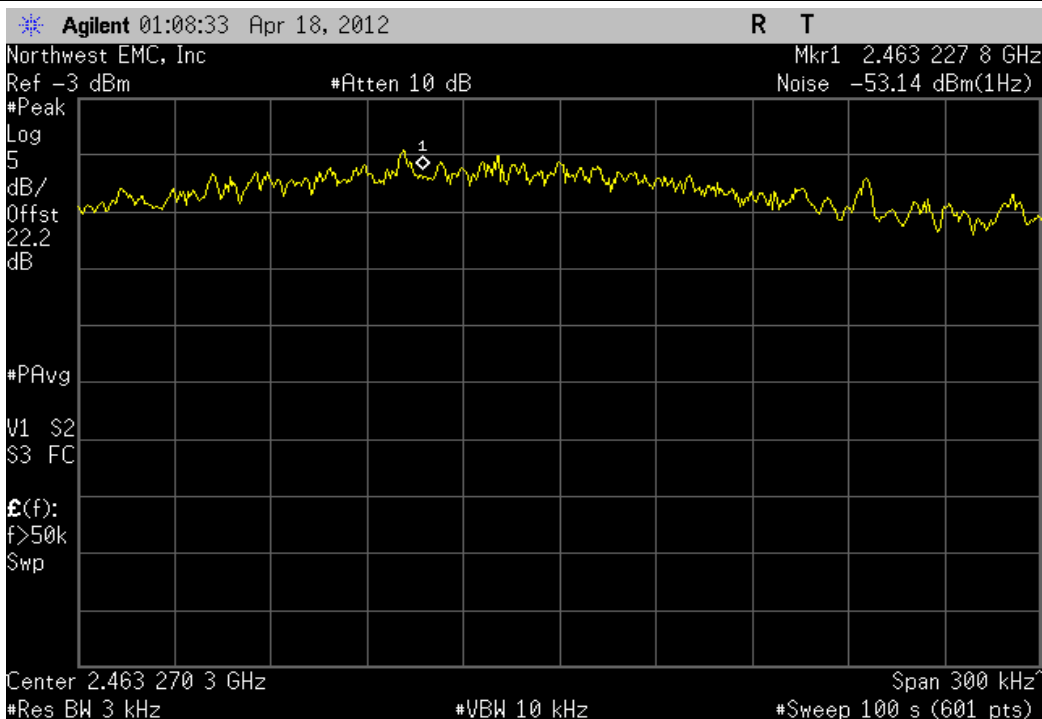
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-54.072	34.8	-19.272	8	Pass



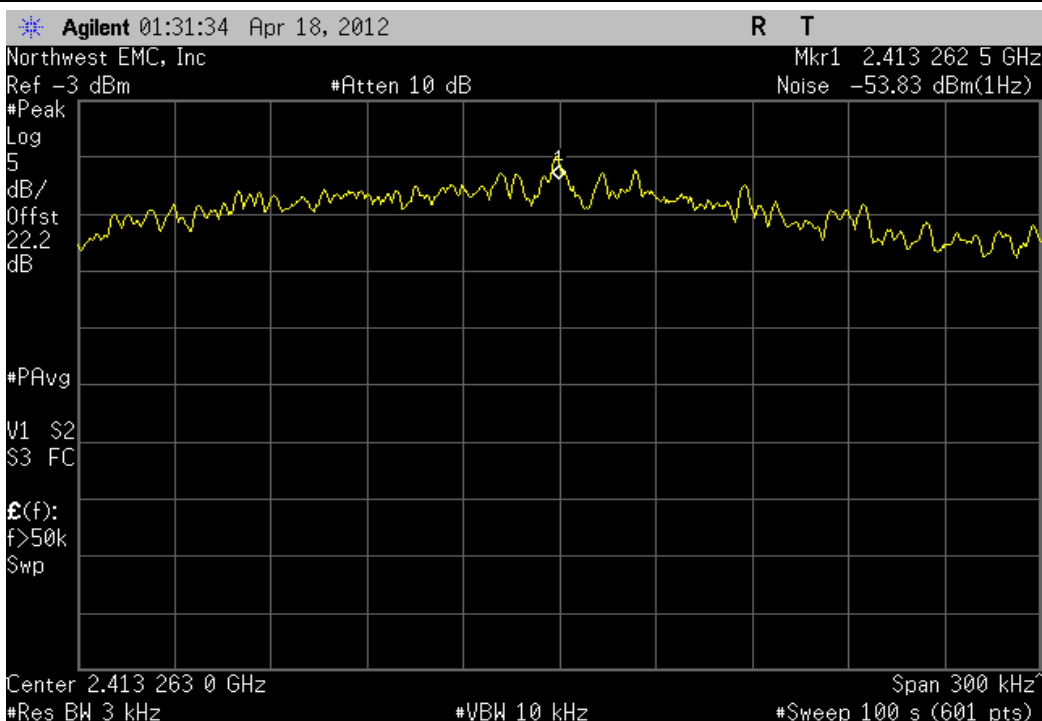
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-53.522	34.8	-18.722	8	Pass



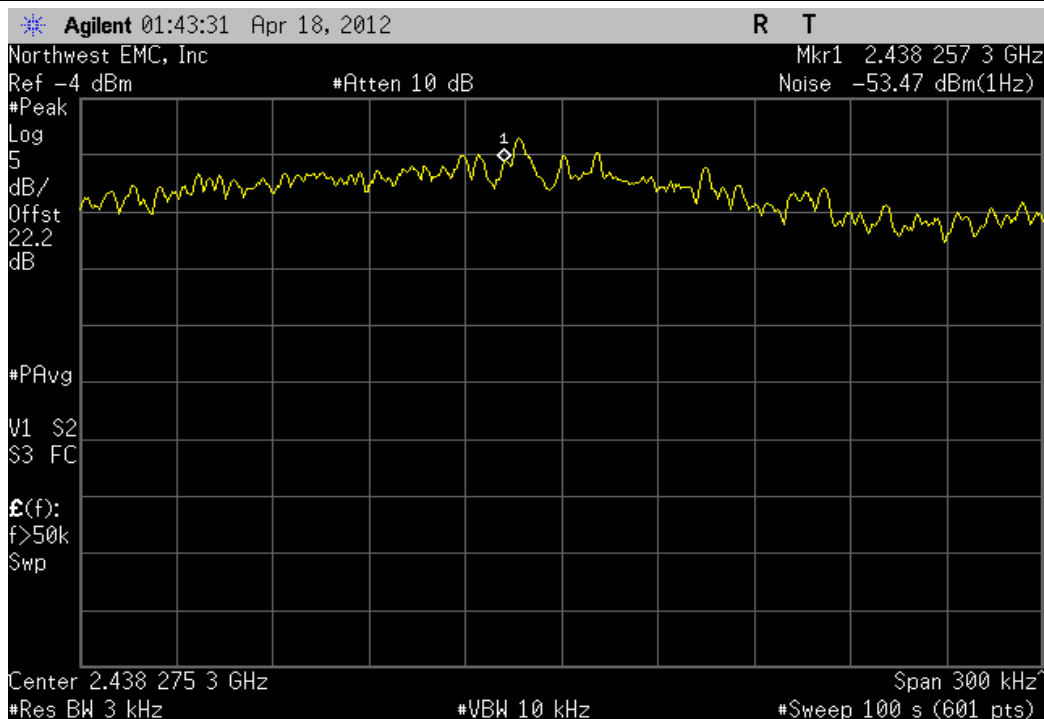
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-53.144	34.8	-18.344	8	Pass



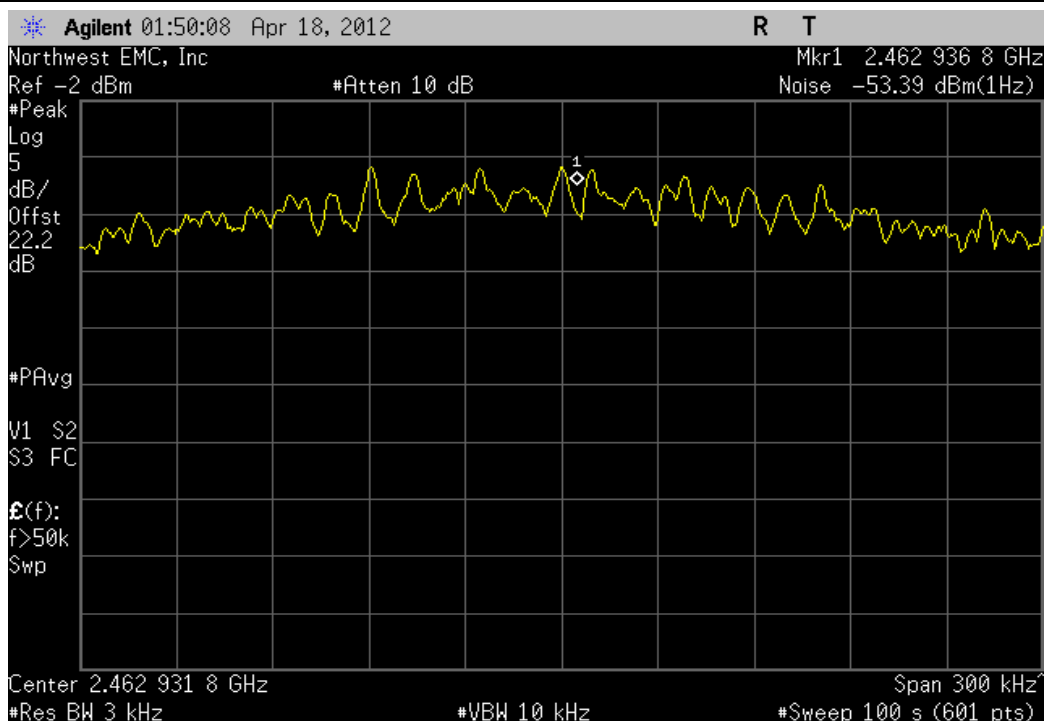
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-53.832	34.8	-19.032	8	Pass



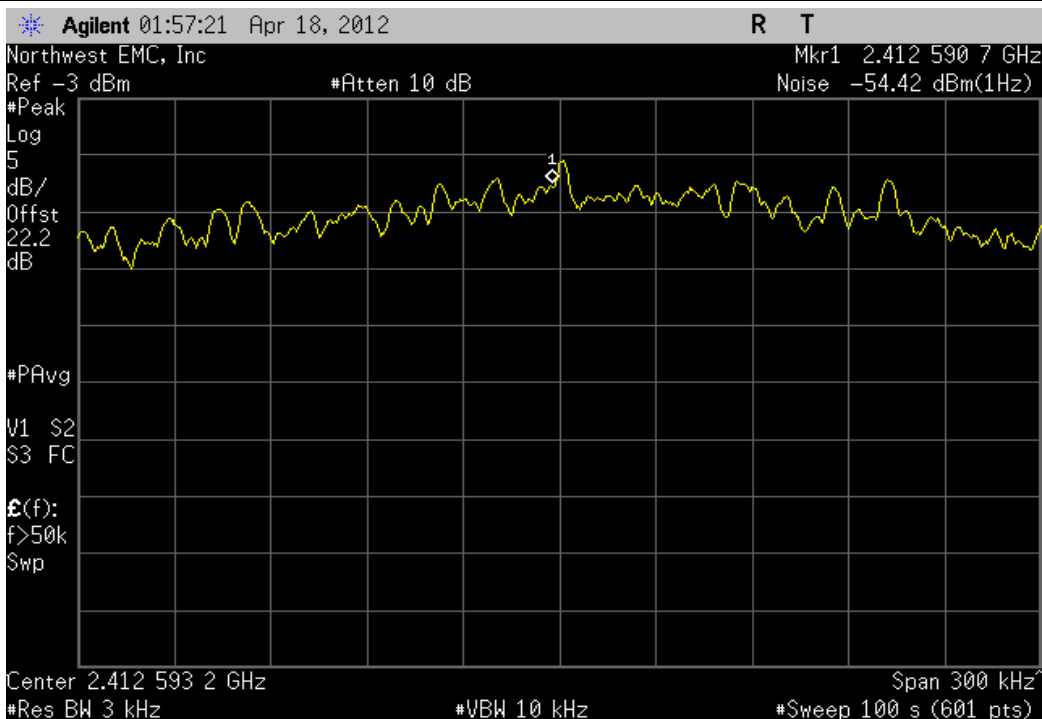
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-53.473	34.8	-18.673	8	Pass



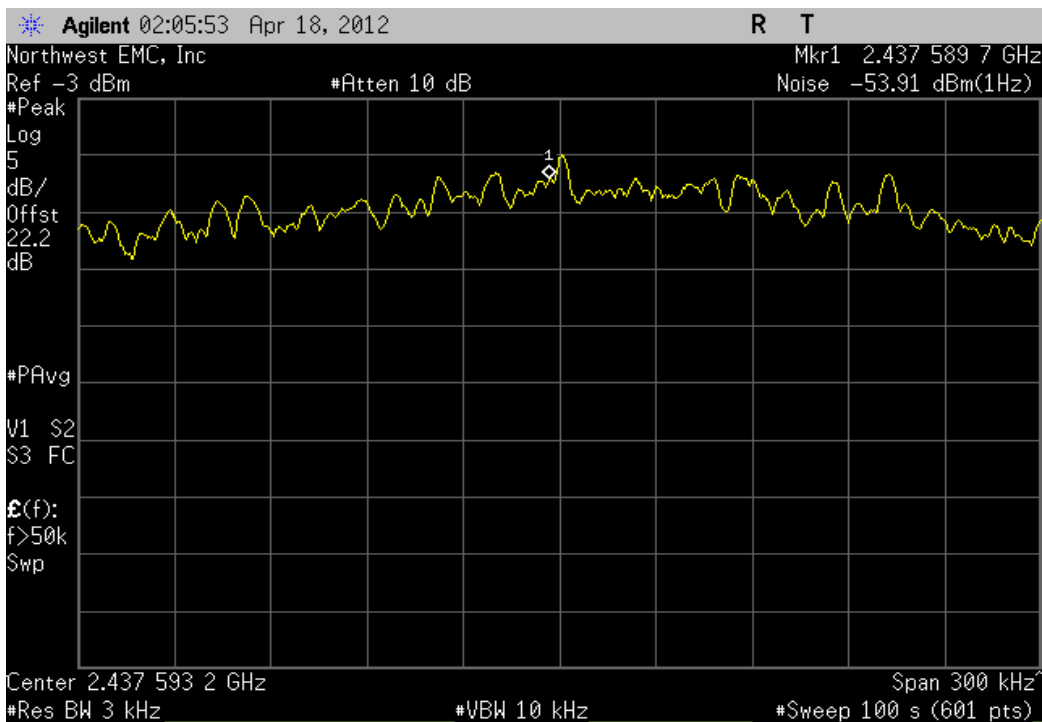
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-53.393	34.8	-18.593	8	Pass



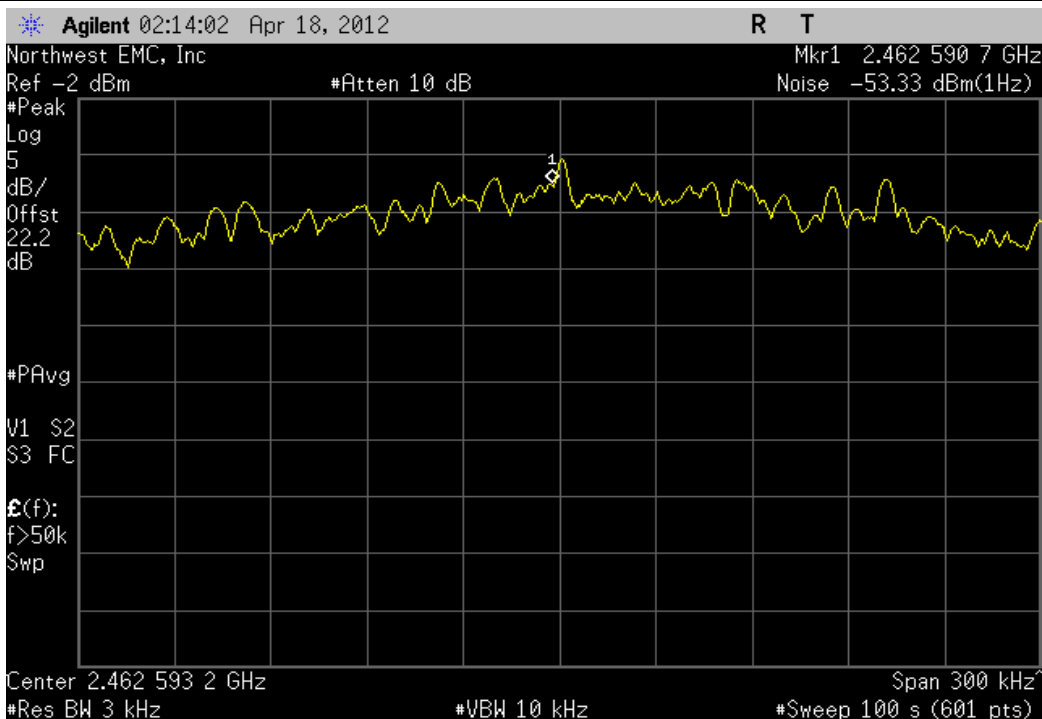
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-54.421	34.8	-19.621	8	Pass



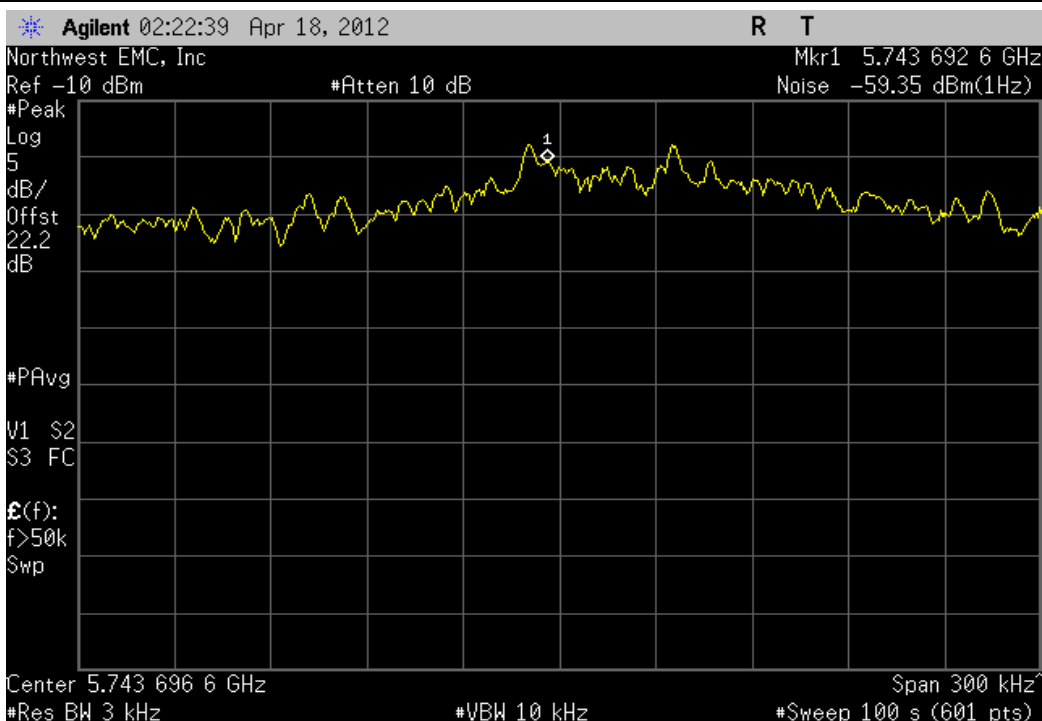
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-53.906	34.8	-19.106	8	Pass



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-53.334	34.8	-18.534	8	Pass

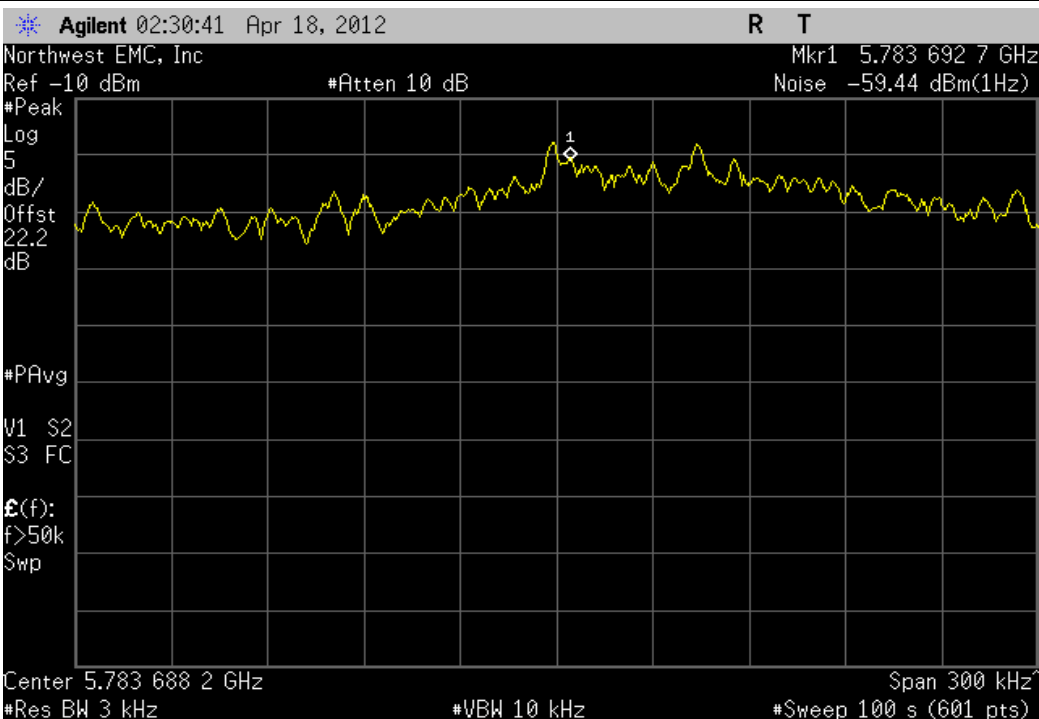


5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-59.353	34.8	-24.553	8	Pass



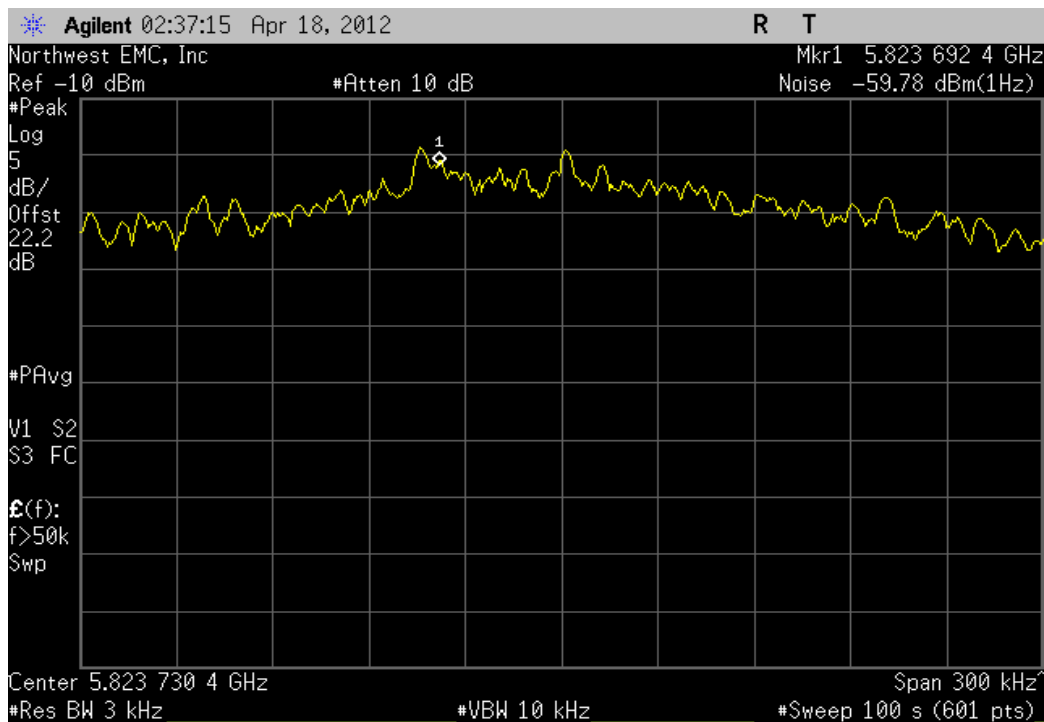
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
-59.445	34.8	-24.645	8	Pass

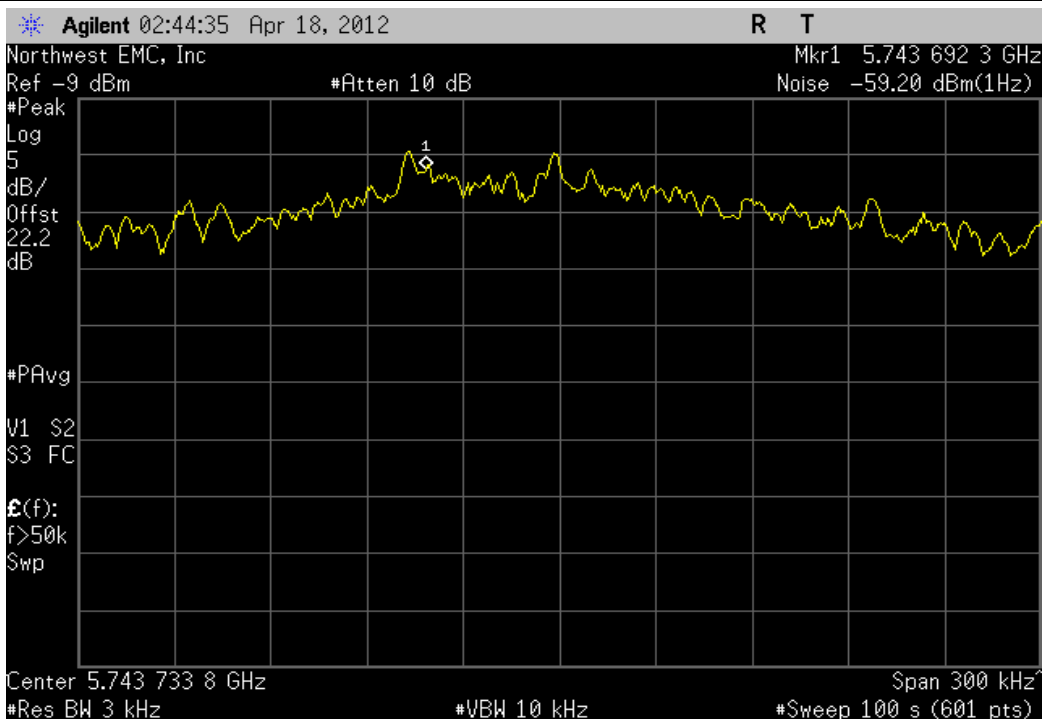


5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

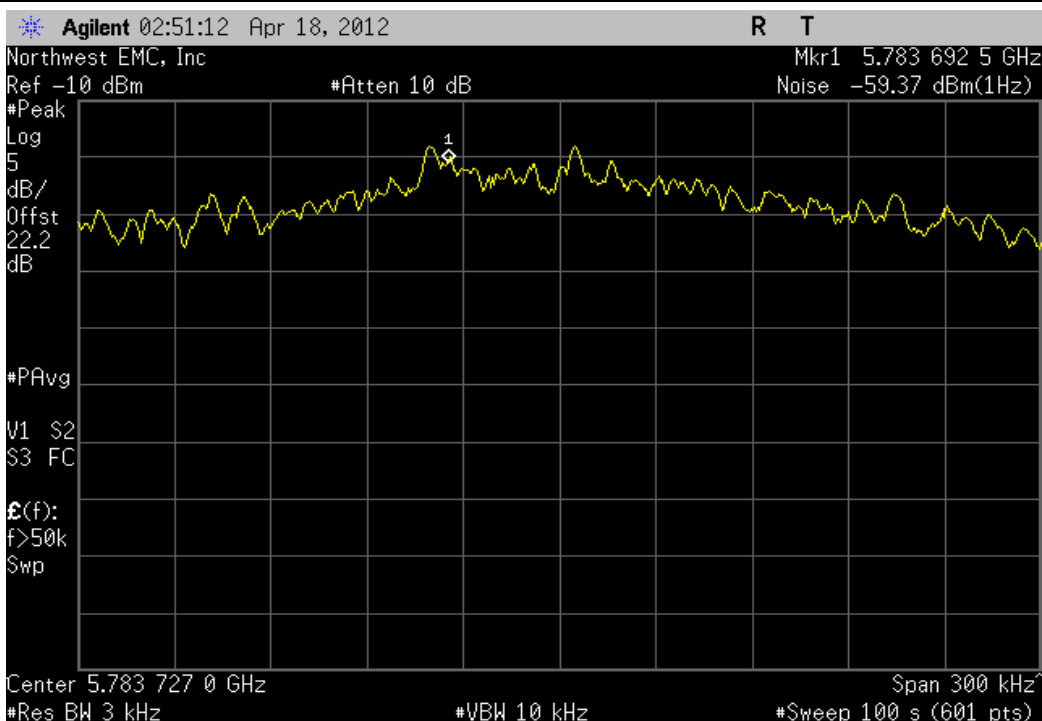
Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
-59.785	34.8	-24.985	8	Pass



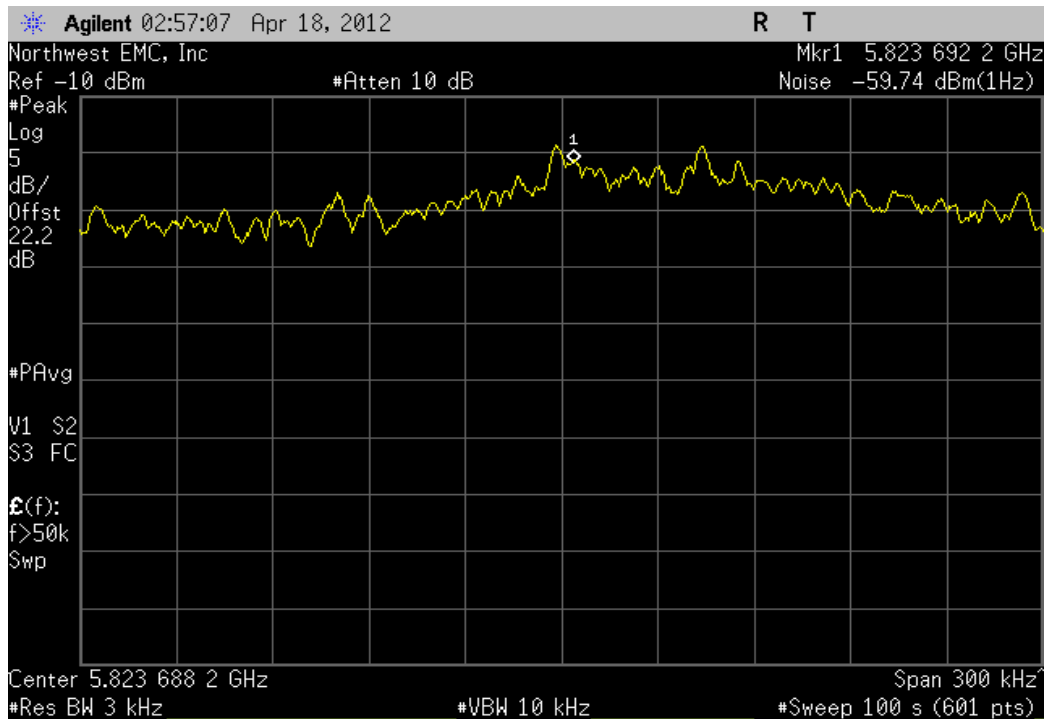
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-59.197	34.8	-24.397	8	Pass



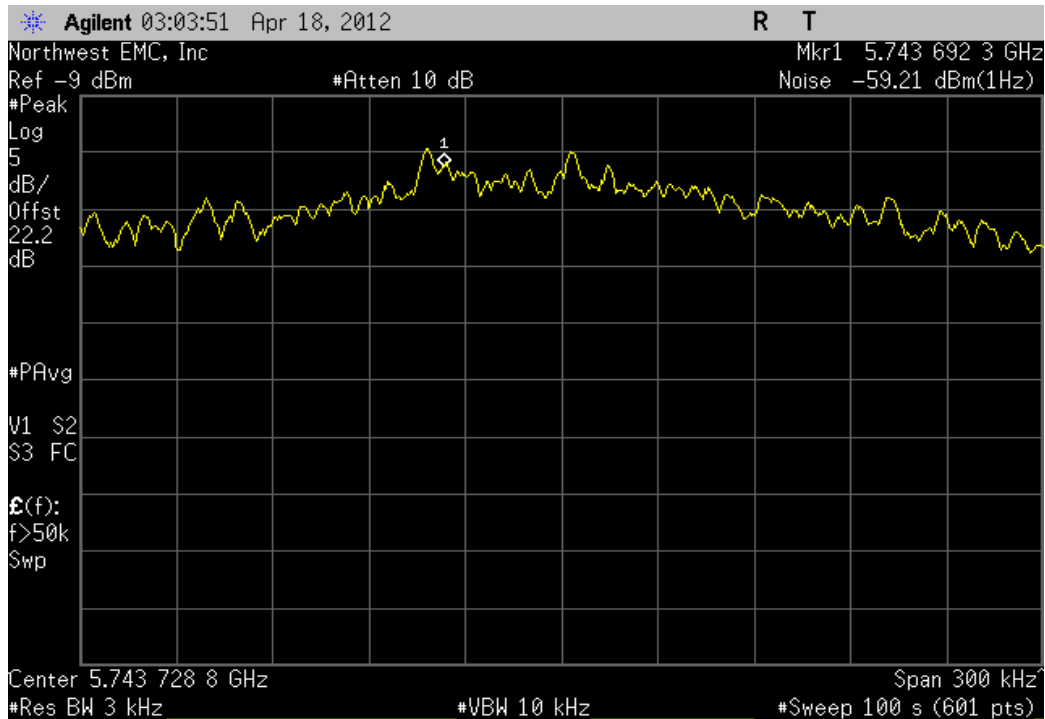
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-59.366	34.8	-24.566	8	Pass



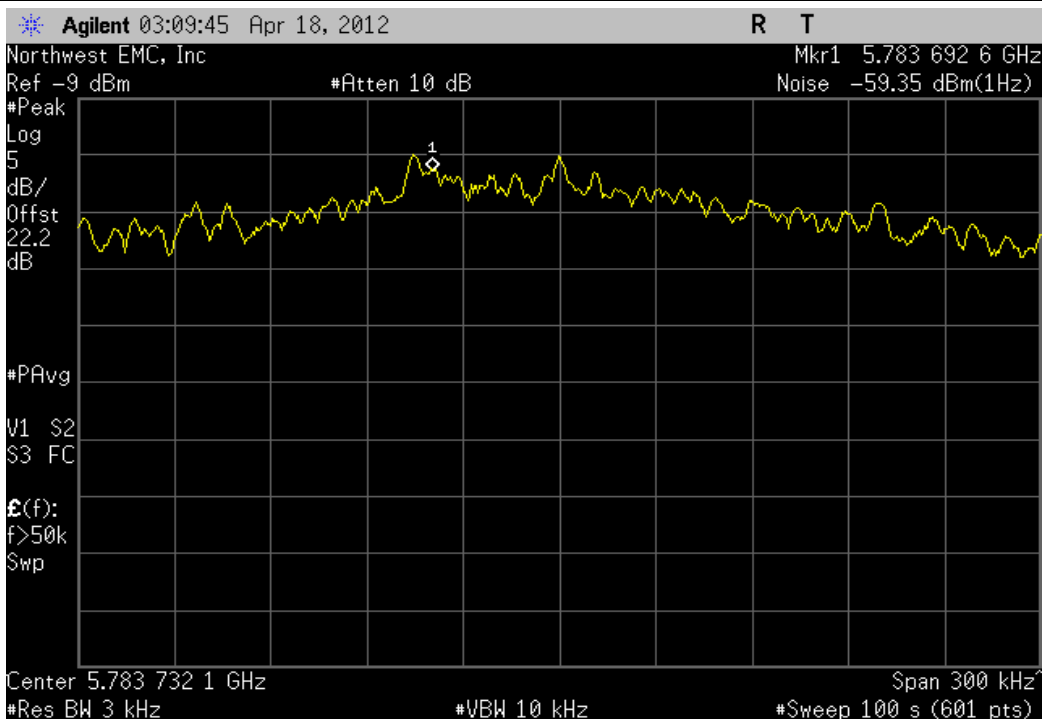
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-59.74	34.8	-24.94	8	Pass



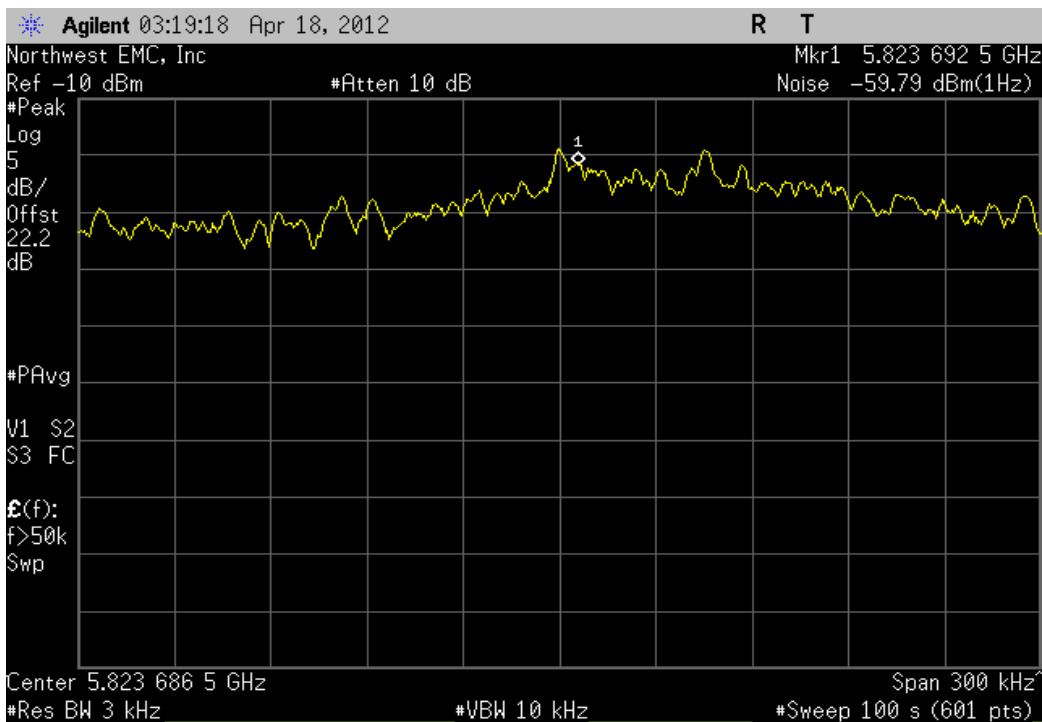
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-59.208	34.8	-24.408	8	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-59.355	34.8	-24.555	8	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz					
	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-59.786	34.8	-24.986	8	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 INVESTIGATED

With Docking Station and all cables attached.

No Docking Station, Battery Powered, Finger Sensor Cable only.

With Docking Station, Finger Sensor Cable only.

CHANNELS AND DATA RATES INVESTIGATED

Channel 1, 6, 11. Data Rates: 1, 11, 6, 36, 54 Mbps

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

MASI0095 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26 GHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	Micro-Tronics	HPM50111	HFM	4/2/2012	24 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	4/29/2011	12 mo
Antenna, Horn	EMCO	3160-09	AHN	NCR	0 mo
OC floating Cable	N/A	18-26GHz RE Cables	OCK	4/29/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	11/21/2011	12 mo
Antenna, Horn	ETS	3160-08	AHT	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	11/21/2011	12 mo
Antenna, Horn	ETS	3160-07	AHR	NCR	0 mo
OC 10 Cables	N/A	12-18GHz RE Cables	OCO	10/13/2011	12 mo
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	6/24/2011	12 mo
Antenna, Horn	EMCO	3115	AHB	3/8/2011	24 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	10/13/2011	12 mo
Antenna, Biconilog	EMCO	3142	AXB	3/28/2011	15 mo
OC10 Cables	N/A	10kHz-1GHz RE Cables	OCH	6/24/2011	12 mo
Pre-Amplifier	Miteq	AM-1064-9079	AOO	6/28/2011	12 mo
Spectrum Analyzer	Agilent	E4440A	AFA	5/9/2011	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

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

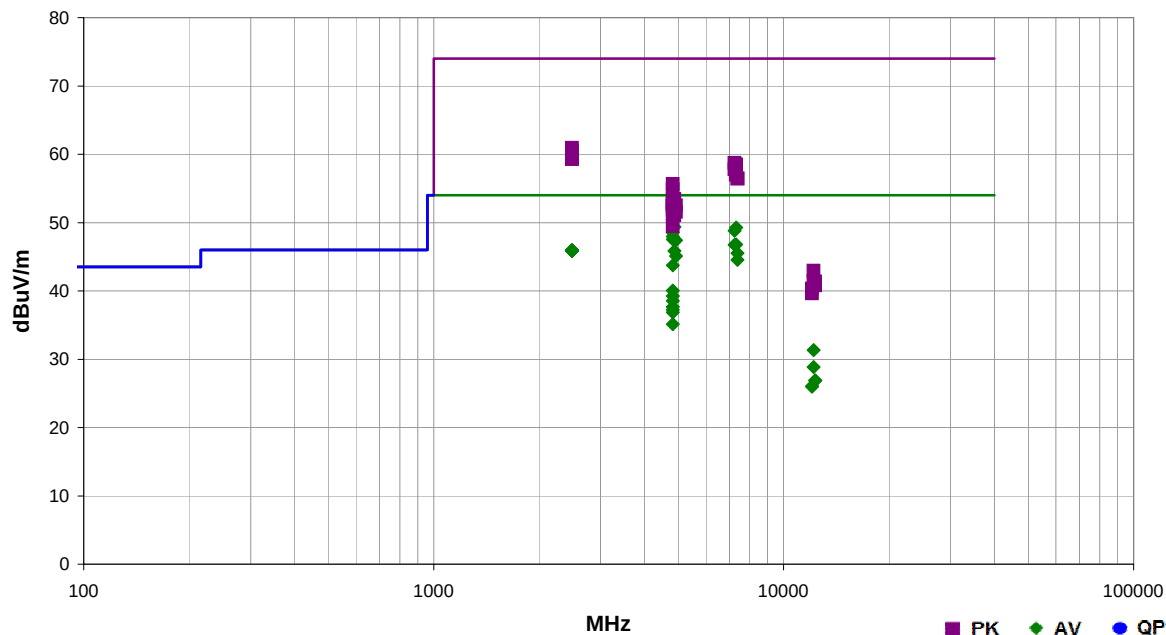
TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and orientation in 3 orthogonal plane, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.

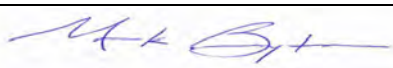
Work Order:	MASI0095	Date:	04/19/12		
Project:	None	Temperature:	28.45 °C		
Job Site:	OC10	Humidity:	35.45% RH		
Serial Number:	34996 Rev C.	Barometric Pres.:	1019 mbar	Tested by:	Jaemi Suh
EUT:	RAD7CA				
Configuration:	3				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Port 1. See comments for Channels and Data Rate.				
Deviations:	None				
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.				

Test Specifications	Test Method
FCC 15.209:2012	ANSI C63.10:2009

Run #	19	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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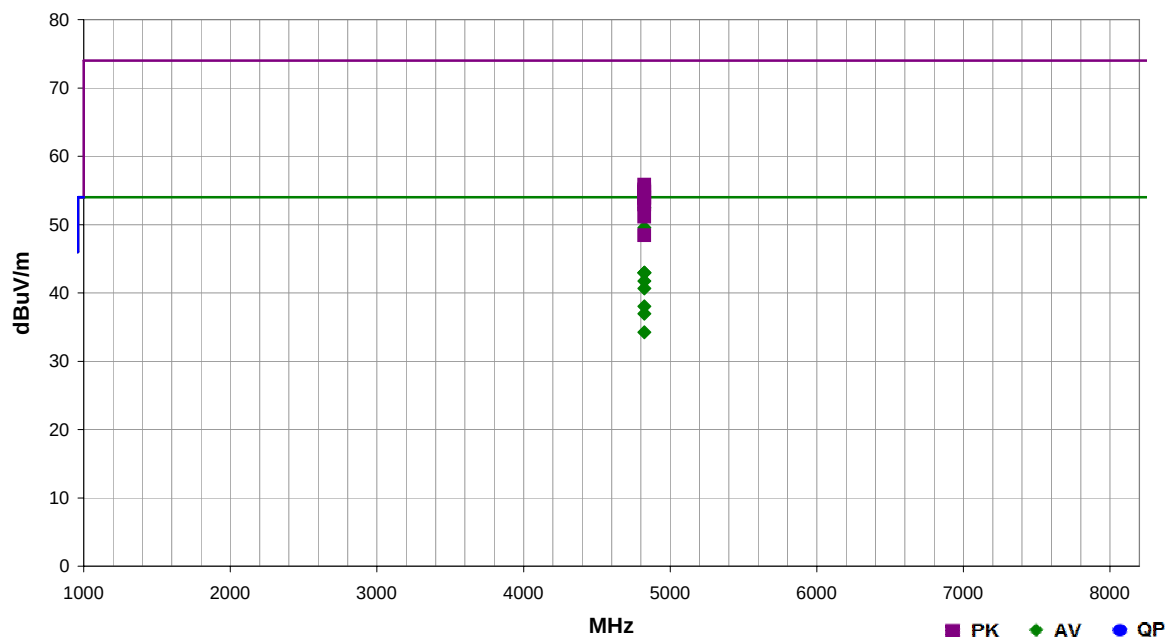


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (m)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dB)	Spec. Limit (dB)	Compared to Spec. (dB)	Comments
4823.997	43.0	9.5	1.1	175.0	3.0	0.0	Vert	AV	0.0	52.5	54.0	-1.5	Chan 1, 1 Mbps, Y-Axis
4874.010	39.6	9.8	1.2	162.0	3.0	0.0	Vert	AV	0.0	49.4	54.0	-4.6	Chan 6, 1 Mbps, Y-Axis
7311.754	32.6	16.7	1.6	230.0	3.0	0.0	Horz	AV	0.0	49.3	54.0	-4.7	Chan 6, 1 Mbps, Y-Axis
7236.765	32.3	16.5	1.2	208.0	3.0	0.0	Vert	AV	0.0	48.8	54.0	-5.2	Chan 1, 1 Mbps, Y-Axis
4824.011	39.0	9.5	1.2	267.0	3.0	0.0	Vert	AV	0.0	48.5	54.0	-5.5	Chan 1, 1 Mbps, X-Axis
4823.991	38.4	9.5	1.2	189.0	3.0	0.0	Vert	AV	0.0	47.9	54.0	-6.1	Chan 1, 1 Mbps, Z-Axis
4823.991	38.0	9.5	1.2	241.0	3.0	0.0	Horz	AV	0.0	47.5	54.0	-6.5	Chan 1, 1 Mbps, Y-Axis
4924.000	37.4	10.0	1.0	224.0	3.0	0.0	Vert	AV	0.0	47.4	54.0	-6.6	Chan 11, 1 Mbps, Y-Axis
7311.750	30.1	16.7	1.2	193.0	3.0	0.0	Vert	AV	0.0	46.8	54.0	-7.2	Chan 6, 1 Mbps, Y-Axis
7236.790	30.2	16.5	1.2	215.0	3.0	0.0	Horz	AV	0.0	46.7	54.0	-7.3	Chan 1, 1 Mbps, Y-Axis
2483.500	24.1	1.8	3.6	64.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 1 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	281.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 1 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	42.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 11 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	148.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 11 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	31.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 6 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	258.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 6 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	348.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 36 Mbps, Y-Axis
2483.500	24.1	1.8	2.7	46.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 36 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	39.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 54 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	4.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 54 Mbps, Y-Axis
4873.984	36.1	9.8	1.2	199.0	3.0	0.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 6, 1 Mbps, Y-Axis
7386.787	29.0	16.5	1.0	241.0	3.0	0.0	Horz	AV	0.0	45.5	54.0	-8.5	Chan 11, 1 Mbps, Y-Axis

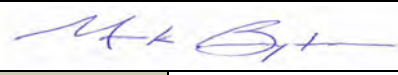
Work Order:	MASI0095	Date:	04/19/12	
Project:	None	Temperature:	28.15 °C	
Job Site:	OC10	Humidity:	37.45% RH	
Serial Number:	34996 Rev C.	Barometric Pres.:	1019 mbar	
EUT:		RAD7CA		
Configuration:	3			
Customer:	Masimo Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Port 2. See comments for Channels and Data Rate.			
Deviations:	None			
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.			

Test Specifications	Test Method
FCC 15.209:2012	ANSI C63.10:2009

Run #	25	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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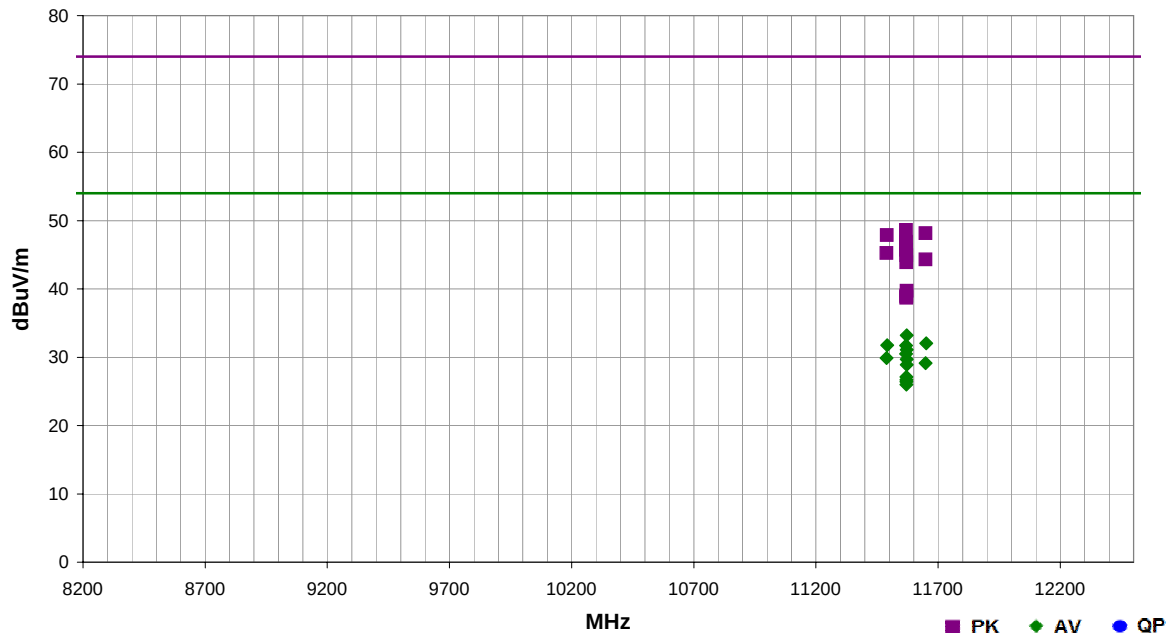


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4823.997	42.9	9.5	1.0	230.0	3.0	0.0	Vert	AV	0.0	52.4	54.0	-1.6	Chan 1, 1 Mbps, Y-Axis
4824.007	40.0	9.5	1.0	211.0	3.0	0.0	Horz	AV	0.0	49.5	54.0	-4.5	Chan 1, 1 Mbps, Y-Axis
4823.985	33.4	9.5	1.0	224.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	Chan 1, 6 Mbps, Y-Axis
4823.975	33.4	9.5	1.0	67.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	Chan 1, 11 Mbps, Y-Axis
4823.955	33.4	9.5	1.0	173.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	Chan 1, 36 Mbps, Y-Axis
4823.980	32.2	9.5	1.1	213.0	3.0	0.0	Horz	AV	0.0	41.7	54.0	-12.3	Chan 1, 6 Mbps, Y-Axis
4823.925	31.1	9.5	1.0	205.0	3.0	0.0	Horz	AV	0.0	40.6	54.0	-13.4	Chan 1, 11 Mbps, Y-Axis
4824.003	28.5	9.5	1.0	222.0	3.0	0.0	Horz	AV	0.0	38.0	54.0	-16.0	Chan 1, 36 Mbps, Y-Axis
4824.432	27.4	9.5	1.0	226.0	3.0	0.0	Vert	AV	0.0	36.9	54.0	-17.1	Chan 1, 54 Mbps, Y-Axis
4823.927	46.3	9.5	1.0	230.0	3.0	0.0	Vert	PK	0.0	55.8	74.0	-18.2	Chan 1, 1 Mbps, Y-Axis
4823.958	45.6	9.5	1.0	173.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	Chan 1, 36 Mbps, Y-Axis
4823.753	45.3	9.5	1.0	224.0	3.0	0.0	Vert	PK	0.0	54.8	74.0	-19.2	Chan 1, 6 Mbps, Y-Axis
4824.150	45.2	9.5	1.0	67.0	3.0	0.0	Vert	PK	0.0	54.7	74.0	-19.3	Chan 1, 11 Mbps, Y-Axis
4824.207	24.7	9.5	1.0	257.0	3.0	0.0	Horz	AV	0.0	34.2	54.0	-19.8	Chan 1, 54 Mbps, Y-Axis
4823.902	44.4	9.5	1.0	211.0	3.0	0.0	Horz	PK	0.0	53.9	74.0	-20.1	Chan 1, 1 Mbps, Y-Axis
4823.925	44.3	9.5	1.1	213.0	3.0	0.0	Horz	PK	0.0	53.8	74.0	-20.2	Chan 1, 6 Mbps, Y-Axis
4823.975	43.5	9.5	1.0	205.0	3.0	0.0	Horz	PK	0.0	53.0	74.0	-21.0	Chan 1, 11 Mbps, Y-Axis
4824.212	43.4	9.5	1.0	226.0	3.0	0.0	Vert	PK	0.0	52.9	74.0	-21.1	Chan 1, 54 Mbps, Y-Axis
4823.892	41.6	9.5	1.0	222.0	3.0	0.0	Horz	PK	0.0	51.1	74.0	-22.9	Chan 1, 36 Mbps, Y-Axis
4824.118	38.9	9.5	1.0	257.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	Chan 1, 54 Mbps, Y-Axis

Work Order:	MA5I0095	Date:	04/19/12	
Project:	None	Temperature:	25.19 °C	
Job Site:	OC10	Humidity:	48.66% RH	
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar	
EUT:	RAD7CA			
Configuration:	3			
Customer:	Masimo Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 801.11(a) Channels 149, 157, 165. Antenna Port 1. See data rates on comments.			
Deviations:	None			
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.			

Test Specifications	Test Method
FCC 15.209:2012	ANSI C63.10:2009

Run #	27	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)
11571.170	43.2	-10.0	1.0	146.0	3.0	0.0	Horz	AV	0.0	33.2	54.0	-20.8
11651.170	41.9	-9.9	1.0	222.0	3.0	0.0	Horz	AV	0.0	32.0	54.0	-22.0
11491.160	41.9	-10.1	1.0	207.0	3.0	0.0	Horz	AV	0.0	31.8	54.0	-22.2
11568.680	41.7	-10.0	1.0	284.0	3.0	0.0	Vert	AV	0.0	31.7	54.0	-22.3
11571.210	41.1	-10.0	1.0	39.0	3.0	0.0	Horz	AV	0.0	31.1	54.0	-22.9
11568.630	40.5	-10.0	1.0	142.0	3.0	0.0	Horz	AV	0.0	30.5	54.0	-23.5
11488.710	40.0	-10.1	1.1	316.0	3.0	0.0	Vert	AV	0.0	29.9	54.0	-24.1
11571.130	39.7	-10.0	1.0	42.0	3.0	0.0	Vert	AV	0.0	29.7	54.0	-24.3
11648.750	39.0	-9.9	1.0	196.0	3.0	0.0	Vert	AV	0.0	29.1	54.0	-24.9
11571.130	38.9	-10.0	1.1	225.0	3.0	0.0	Vert	AV	0.0	28.9	54.0	-25.1
11568.750	58.6	-10.0	1.0	146.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4
11648.700	58.0	-9.9	1.0	222.0	3.0	0.0	Horz	PK	0.0	48.1	74.0	-25.9
11489.890	58.0	-10.1	1.0	207.0	3.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1
11569.960	37.1	-10.0	1.0	213.0	3.0	0.0	Vert	AV	0.0	27.1	54.0	-26.9
11568.620	56.9	-10.0	1.0	39.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1
11569.970	36.7	-10.0	1.0	9.0	3.0	0.0	Horz	AV	0.0	26.7	54.0	-27.3
11569.390	56.7	-10.0	1.0	284.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3
11569.960	36.4	-10.0	1.0	230.0	3.0	0.0	Horz	AV	0.0	26.4	54.0	-27.6
11569.980	36.0	-10.0	1.0	311.0	3.0	0.0	Vert	AV	0.0	26.0	54.0	-28.0
11568.910	55.7	-10.0	1.0	142.0	3.0	0.0	Horz	PK	0.0	45.7	74.0	-28.3

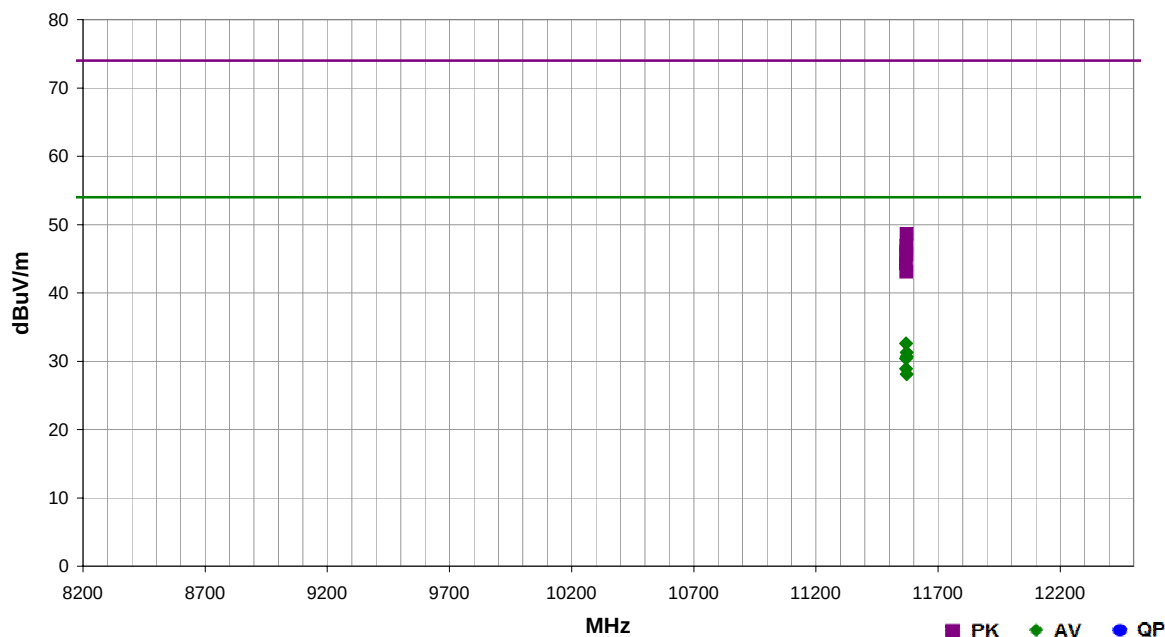


SPURIOUS RADIATED EMISSIONS

Work Order:	MA5I0095	Date:	04/19/12	
Project:	None	Temperature:	25.19 °C	
Job Site:	OC10	Humidity:	48.66% RH	
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar	
EUT:		RAD7CA		
Configuration:	3			
Customer:	Masimo Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 801.11(a) Channels 149, 157, 165. Antenna Port 2. See data rates on comments.			
Deviations:	None			
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.			

Test Specifications	Test Method
FCC 15.209:2012	ANSI C63.10:2009

Run #	28	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)
11568.610	42.6	-10.0	1.0	227.0	3.0	0.0	Horz	AV	0.0	32.6	54.0	-21.4
11571.120	41.3	-10.0	1.0	201.0	3.0	0.0	Horz	AV	0.0	31.3	54.0	-22.7
11571.160	40.7	-10.0	1.0	188.0	3.0	0.0	Vert	AV	0.0	30.7	54.0	-23.3
11568.760	40.4	-10.0	1.0	244.0	3.0	0.0	Horz	AV	0.0	30.4	54.0	-23.6
11568.790	38.9	-10.0	1.0	269.0	3.0	0.0	Vert	AV	0.0	28.9	54.0	-25.1
11570.740	58.6	-10.0	1.0	227.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4
11571.200	38.1	-10.0	1.0	304.0	3.0	0.0	Vert	AV	0.0	28.1	54.0	-25.9
11570.230	56.9	-10.0	1.0	201.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1
11570.050	56.1	-10.0	1.0	188.0	3.0	0.0	Vert	PK	0.0	46.1	74.0	-27.9
11569.970	55.6	-10.0	1.0	244.0	3.0	0.0	Horz	PK	0.0	45.6	74.0	-28.4
11568.790	54.3	-10.0	1.0	269.0	3.0	0.0	Vert	PK	0.0	44.3	74.0	-29.7
11569.580	53.1	-10.0	1.0	304.0	3.0	0.0	Vert	PK	0.0	43.1	74.0	-30.9

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

Transmitting 802.11(a) Channel 165, 6 Mbps.
 Transmitting 802.11(a) Channel 157, 6 Mbps.
 Transmitting 802.11(a) Channel 149, 6 Mbps.
 Transmitting 802.11(b/g) Channel 11, 1 Mbps.
 Transmitting 802.11(b/g) Channel 6, 1 Mbps.
 Transmitting 802.11(b/g) Channel 1, 1 Mbps.

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

MASI0095 - 2

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-R-24-BNC	LIC	4/26/2011	12 mo
LISN	Solar	9252-50-24-BNC	LIA	6/13/2011	12 mo
Attenuator	Pasternack	6N10W-20	AWC	3/1/2012	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	3/1/2012	24 mo
OC06 Cables	N/A	CE Cables	OCM	4/6/2012	12 mo
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	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.

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

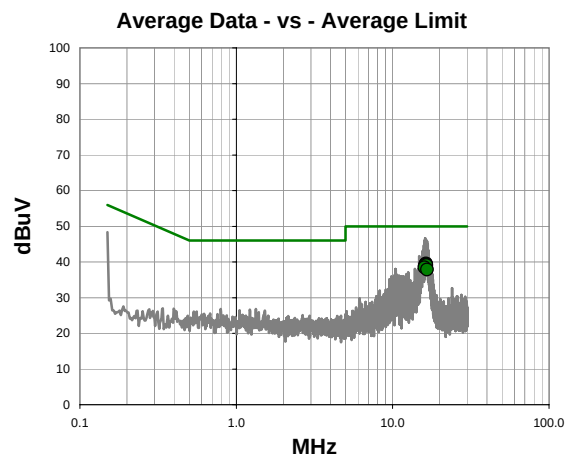
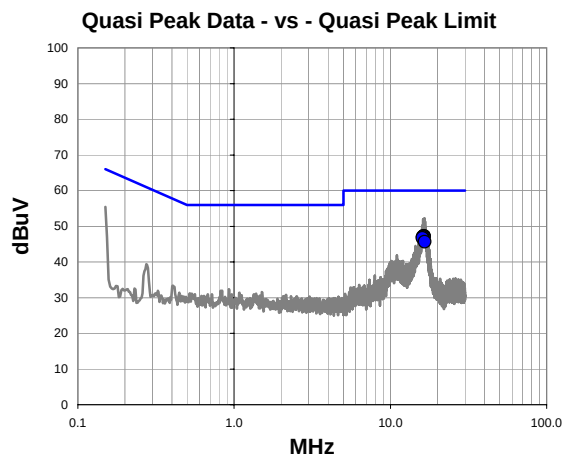
The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, 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.



AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
Tested by: Mark Baytan							
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(b/g) Channel 1, 1 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		ANSI C63.10:2009					
Run #	10	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)
16.458	26.5	20.7	47.2	60.0	-12.8
16.378	26.5	20.7	47.2	60.0	-12.8
16.407	26.3	20.7	47.0	60.0	-13.0
16.156	26.3	20.7	47.0	60.0	-13.0
16.024	26.0	20.7	46.7	60.0	-13.3
16.618	24.9	20.8	45.7	60.0	-14.3

Average Data - vs - Average Limit

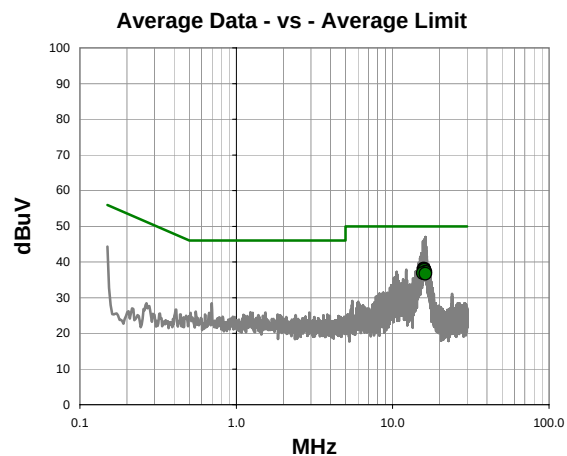
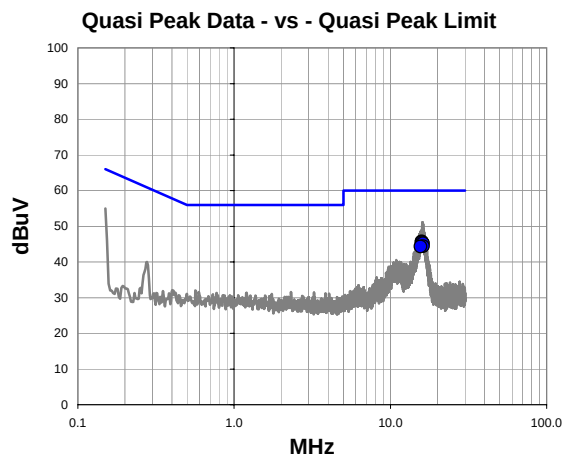
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
16.378	18.8	20.7	39.5	50.0	-10.5
16.407	18.6	20.7	39.3	50.0	-10.7
16.156	18.5	20.7	39.2	50.0	-10.8
16.458	18.4	20.7	39.1	50.0	-10.9
16.024	17.8	20.7	38.5	50.0	-11.5
16.618	17.1	20.8	37.9	50.0	-12.1



AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(b/g) Channel 1, 1 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		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)
15.930	25.0	20.7	45.7	60.0	-14.3
15.817	24.9	20.7	45.6	60.0	-14.4
15.984	24.8	20.7	45.5	60.0	-14.5
16.225	24.5	20.7	45.2	60.0	-14.8
16.188	23.7	20.7	44.4	60.0	-15.6
15.609	23.6	20.7	44.3	60.0	-15.7

Average Data - vs - Average Limit

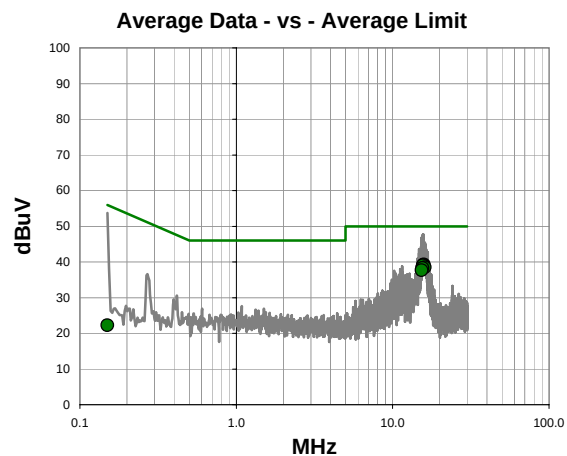
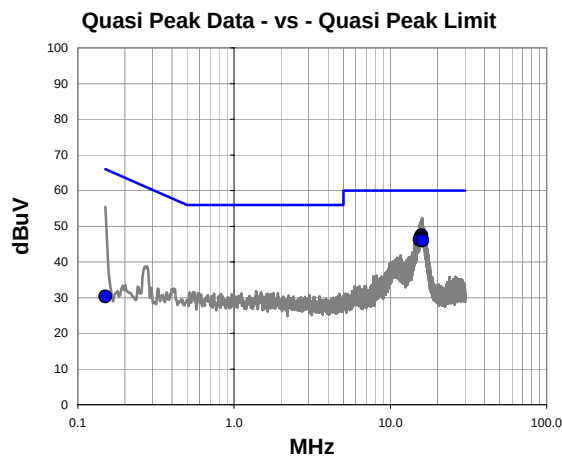
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.817	17.4	20.7	38.1	50.0	-11.9
15.930	17.3	20.7	38.0	50.0	-12.0
15.984	17.1	20.7	37.8	50.0	-12.2
16.225	16.5	20.7	37.2	50.0	-12.8
15.609	16.2	20.7	36.9	50.0	-13.1
16.188	16.0	20.7	36.7	50.0	-13.3



AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(b/g) Channel 6, 1 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		ANSI C63.10:2009					
Run #	12	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)
15.820	26.7	20.7	47.4	60.0	-12.6
15.634	26.2	20.7	46.9	60.0	-13.1
15.718	26.0	20.7	46.7	60.0	-13.3
15.536	25.7	20.7	46.4	60.0	-13.6
15.354	25.5	20.7	46.2	60.0	-13.8
16.057	25.3	20.7	46.0	60.0	-14.0
0.150	10.2	20.1	30.3	66.0	-35.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.820	18.6	20.7	39.3	50.0	-10.7
15.718	18.4	20.7	39.1	50.0	-10.9
15.634	18.3	20.7	39.0	50.0	-11.0
16.057	17.8	20.7	38.5	50.0	-11.5
15.536	17.6	20.7	38.3	50.0	-11.7
15.354	17.0	20.7	37.7	50.0	-12.3
0.150	2.1	20.1	22.2	56.0	-33.8



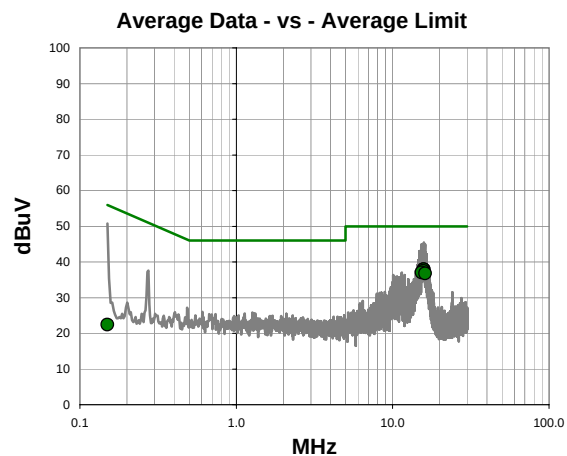
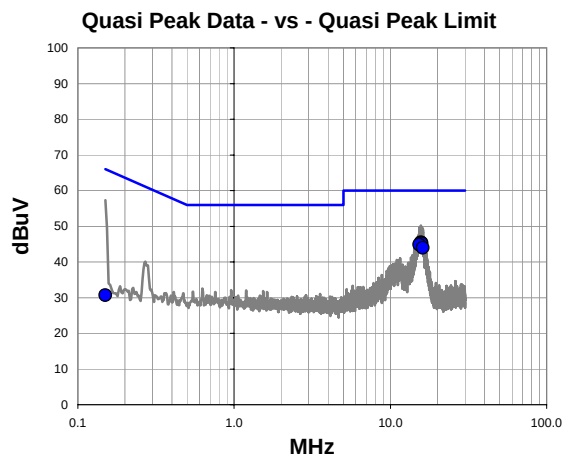
AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MASI0095	Date:	04/20/12		
Project:	None	Temperature:	25.05 °C		
Job Site:	OC06	Humidity:	48.3% RH		
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar	Tested by:	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b/g) Channel 6, 1 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

Test Specifications	Test Method
FCC 15.247:2011	ANSI C63.10:2009

Run #	13	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.660	24.8	20.7	45.5	60.0	-14.5
15.860	24.7	20.7	45.4	60.0	-14.6
15.787	24.5	20.7	45.2	60.0	-14.8
15.339	24.1	20.7	44.8	60.0	-15.2
16.108	23.2	20.7	43.9	60.0	-16.1
0.150	10.6	20.1	30.7	66.0	-35.3

Average Data - vs - Average Limit

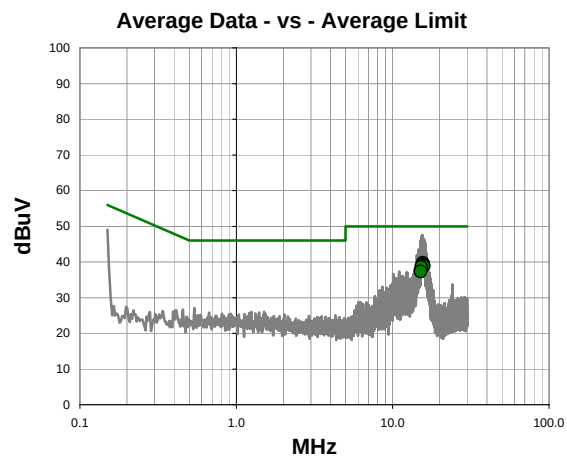
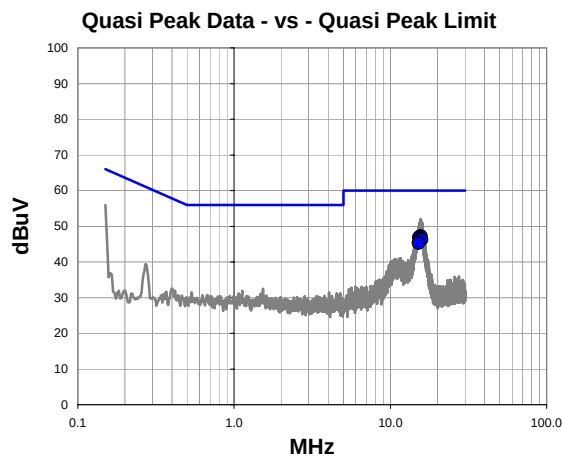
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.860	17.2	20.7	37.9	50.0	-12.1
15.787	17.2	20.7	37.9	50.0	-12.1
15.660	16.8	20.7	37.5	50.0	-12.5
15.339	16.3	20.7	37.0	50.0	-13.0
16.108	16.1	20.7	36.8	50.0	-13.2
0.150	2.3	20.1	22.4	56.0	-33.6



AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(b/g) Channel 11, 1 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		ANSI C63.10:2009					
Run #	14	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)
15.627	26.5	20.7	47.2	60.0	-12.8
15.685	26.5	20.7	47.2	60.0	-12.8
15.274	26.1	20.7	46.8	60.0	-13.2
15.503	25.8	20.7	46.5	60.0	-13.5
15.860	25.5	20.7	46.2	60.0	-13.8
15.146	24.6	20.7	45.3	60.0	-14.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.627	19.0	20.7	39.7	50.0	-10.3
15.685	18.6	20.7	39.3	50.0	-10.7
15.503	18.5	20.7	39.2	50.0	-10.8
15.860	18.1	20.7	38.8	50.0	-11.2
15.274	17.9	20.7	38.6	50.0	-11.4
15.146	16.6	20.7	37.3	50.0	-12.7



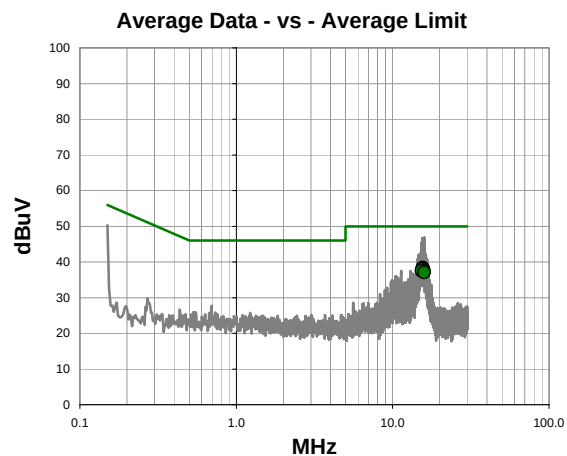
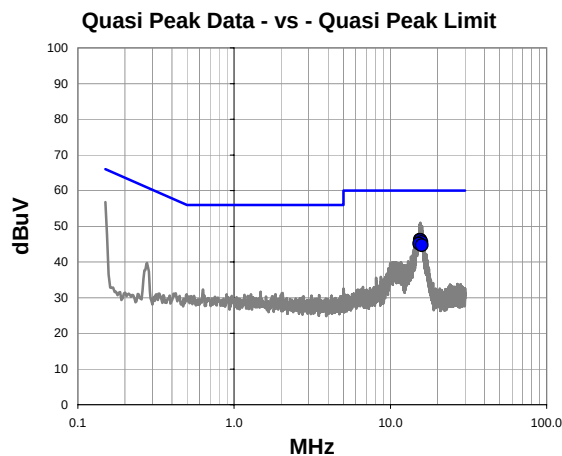
AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MASI0095	Date:	04/20/12	
Project:	None	Temperature:	25.05 °C	
Job Site:	OC06	Humidity:	48.3% RH	
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar	
EUT:	RAD7CA			
Configuration:	2			
Customer:	Masimo Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(b/g) Channel 11, 1 Mbps.			
Deviations:	None			
Comments:	Power Setting = 99. Port 1.			

Test Specifications	Test Method
FCC 15.247:2011	ANSI C63.10:2009

Run #	15	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.463	25.5	20.7	46.2	60.0	-13.8
15.521	25.4	20.7	46.1	60.0	-13.9
15.594	25.4	20.7	46.1	60.0	-13.9
15.828	24.9	20.7	45.6	60.0	-14.4
15.321	24.4	20.7	45.1	60.0	-14.9
15.886	24.0	20.7	44.7	60.0	-15.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.594	17.7	20.7	38.4	50.0	-11.6
15.463	17.4	20.7	38.1	50.0	-11.9
15.521	17.4	20.7	38.1	50.0	-11.9
15.828	17.0	20.7	37.7	50.0	-12.3
15.321	16.8	20.7	37.5	50.0	-12.5
15.886	16.3	20.7	37.0	50.0	-13.0

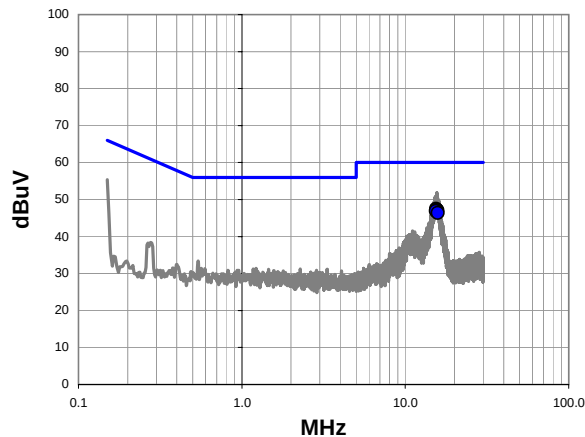


AC POWERLINE CONDUCTED EMISSIONS

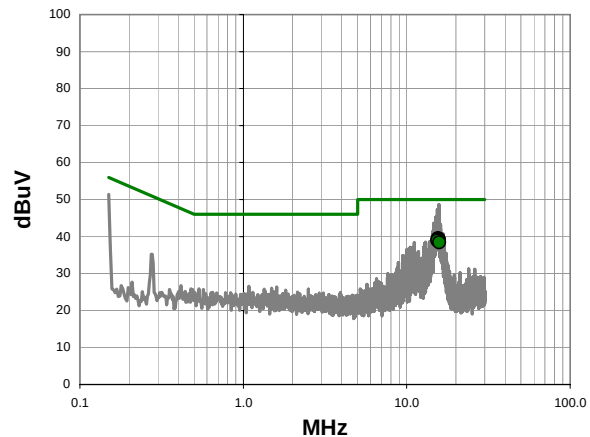
PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(a) Channel 149, 6 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		ANSI C63.10:2009					
Run #	16	Line:	High Line	Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



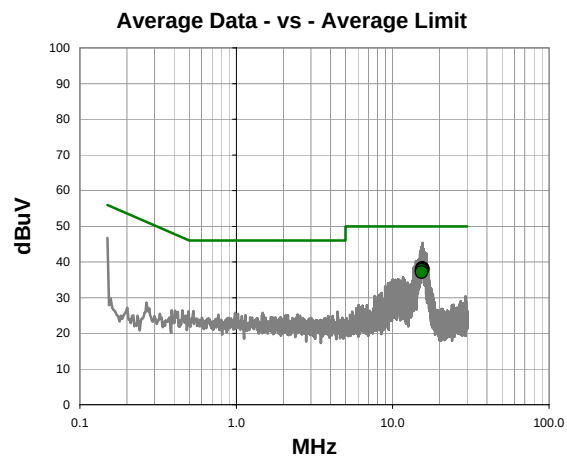
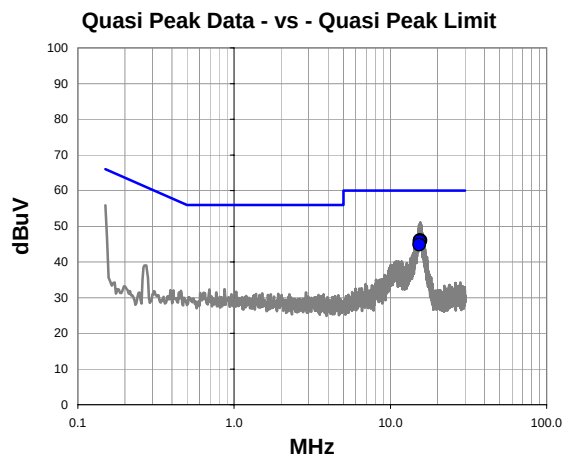
Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.467	26.8	20.7	47.5	60.0	-12.5
15.583	26.5	20.7	47.2	60.0	-12.8
15.769	26.4	20.7	47.1	60.0	-12.9
15.649	26.3	20.7	47.0	60.0	-13.0
15.383	26.2	20.7	46.9	60.0	-13.1
15.835	25.7	20.7	46.4	60.0	-13.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.583	18.8	20.7	39.5	50.0	-10.5
15.467	18.7	20.7	39.4	50.0	-10.6
15.649	18.7	20.7	39.4	50.0	-10.6
15.769	18.5	20.7	39.2	50.0	-10.8
15.383	18.2	20.7	38.9	50.0	-11.1
15.835	17.7	20.7	38.4	50.0	-11.6

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(a) Channel 149, 6 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		ANSI C63.10:2009					
Run #	17	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)
15.474	25.4	20.7	46.1	60.0	-13.9
15.591	25.3	20.7	46.0	60.0	-14.0
15.514	25.1	20.7	45.8	60.0	-14.2
15.452	25.1	20.7	45.8	60.0	-14.2
15.357	25.1	20.7	45.8	60.0	-14.2
15.303	24.1	20.7	44.8	60.0	-15.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.474	17.6	20.7	38.3	50.0	-11.7
15.591	17.4	20.7	38.1	50.0	-11.9
15.514	17.3	20.7	38.0	50.0	-12.0
15.452	17.2	20.7	37.9	50.0	-12.1
15.357	17.1	20.7	37.8	50.0	-12.2
15.303	16.4	20.7	37.1	50.0	-12.9



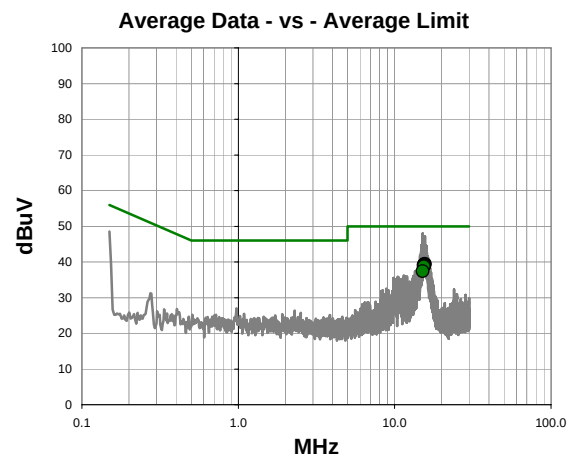
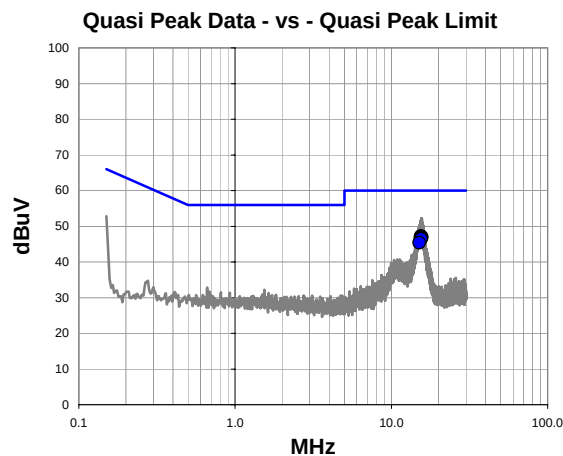
AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2012.03.23
PSA-ESCI Version 2011.12.21

Work Order:	MA5I0095	Date:	04/20/12	
Project:	None	Temperature:	25.05 °C	
Job Site:	OC06	Humidity:	48.3% RH	
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar	
EUT:	RAD7CA			
Configuration:	2			
Customer:	Masimo Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(a) Channel 157, 6 Mbps.			
Deviations:	None			
Comments:	Power Setting = 99. Port 1.			

Test Specifications	Test Method
FCC 15.247:2011	ANSI C63.10:2009

Run #	18	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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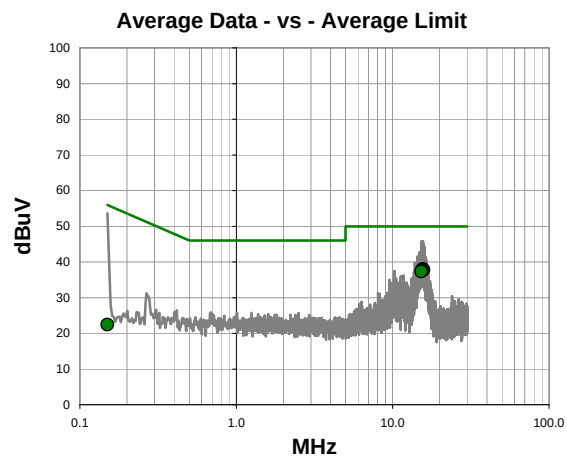
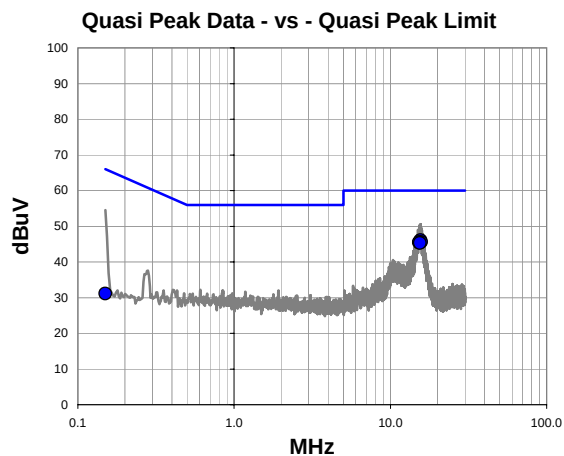
Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.478	26.5	20.7	47.2	60.0	-12.8
15.518	26.5	20.7	47.2	60.0	-12.8
15.645	26.2	20.7	46.9	60.0	-13.1
15.350	26.1	20.7	46.8	60.0	-13.2
15.434	25.9	20.7	46.6	60.0	-13.4
15.543	25.8	20.7	46.5	60.0	-13.5
15.117	24.7	20.7	45.4	60.0	-14.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.645	18.8	20.7	39.5	50.0	-10.5
15.478	18.6	20.7	39.3	50.0	-10.7
15.518	18.6	20.7	39.3	50.0	-10.7
15.350	18.3	20.7	39.0	50.0	-11.0
15.543	18.3	20.7	39.0	50.0	-11.0
15.434	18.0	20.7	38.7	50.0	-11.3
15.117	16.7	20.7	37.4	50.0	-12.6

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(a) Channel 157, 6 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		ANSI C63.10:2009					
Run #	19	Line:	Neutral	Ext. Attenuation:	20	Results	Pass



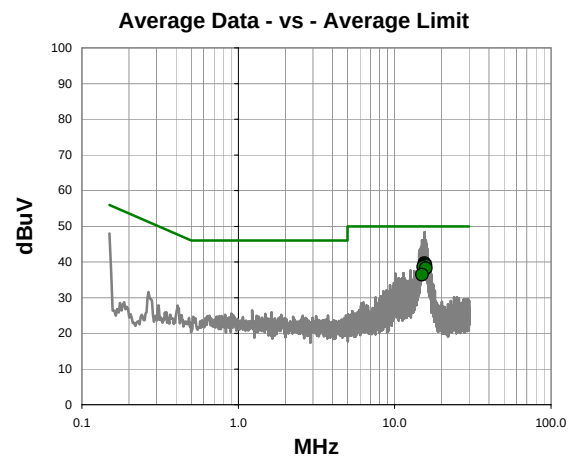
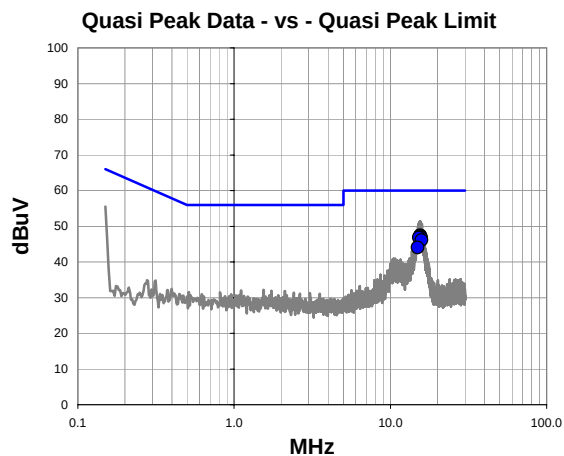
Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.623	25.4	20.7	46.1	60.0	-13.9
15.747	24.9	20.7	45.6	60.0	-14.4
15.336	24.8	20.7	45.5	60.0	-14.5
15.274	24.8	20.7	45.5	60.0	-14.5
15.434	24.6	20.7	45.3	60.0	-14.7
0.150	11.0	20.1	31.1	66.0	-34.9

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.623	17.3	20.7	38.0	50.0	-12.0
15.747	17.1	20.7	37.8	50.0	-12.2
15.434	16.9	20.7	37.6	50.0	-12.4
15.336	16.8	20.7	37.5	50.0	-12.5
15.274	16.6	20.7	37.3	50.0	-12.7
0.150	2.3	20.1	22.4	56.0	-33.6

Work Order:	MASI0095	Date:	04/20/12				
Project:	None	Temperature:	25.05 °C				
Job Site:	OC06	Humidity:	48.3% RH				
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar				
EUT:	RAD7CA						
Configuration:	2						
Customer:	Masimo Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(a) Channel 165, 6 Mbps.						
Deviations:	None						
Comments:	Power Setting = 99. Port 1.						
Test Specifications		Test Method					
FCC 15.247:2011		ANSI C63.10:2009					
Run #	20	Line:	High Line	Ext. Attenuation:	20	Results	Pass



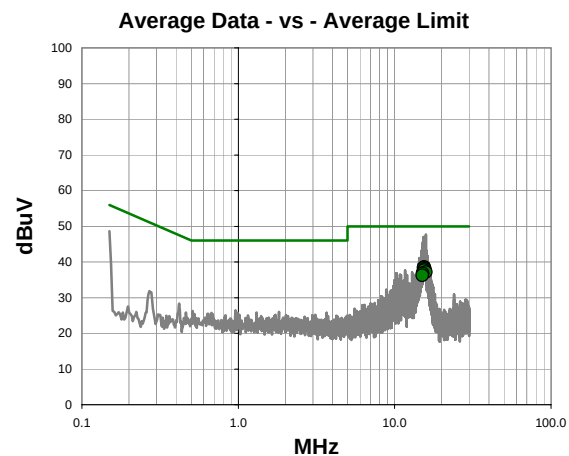
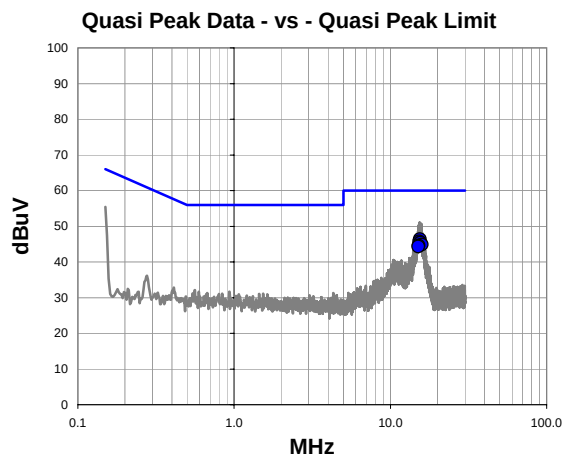
Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.525	26.7	20.7	47.4	60.0	-12.6
15.576	26.5	20.7	47.2	60.0	-12.8
15.769	26.1	20.7	46.8	60.0	-13.2
15.274	26.1	20.7	46.8	60.0	-13.2
15.860	25.4	20.7	46.1	60.0	-13.9
14.949	23.4	20.6	44.0	60.0	-16.0

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.576	18.9	20.7	39.6	50.0	-10.4
15.525	18.6	20.7	39.3	50.0	-10.7
15.769	18.3	20.7	39.0	50.0	-11.0
15.274	17.9	20.7	38.6	50.0	-11.4
15.860	17.5	20.7	38.2	50.0	-11.8
14.949	15.8	20.6	36.4	50.0	-13.6

Work Order:	MA5I0095	Date:	04/20/12		
Project:	None	Temperature:	25.05 °C		
Job Site:	OC06	Humidity:	48.3% RH		
Serial Number:	34996 Rev C.	Barometric Pres.:	1011 mbar		
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a) Channel 165, 6 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				
Test Specifications		Test Method			
FCC 15.247:2011		ANSI C63.10:2009			
Run #	21	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)
15.456	25.7	20.7	46.4	60.0	-13.6
15.339	25.0	20.7	45.7	60.0	-14.3
15.503	24.7	20.7	45.4	60.0	-14.6
15.605	24.7	20.7	45.4	60.0	-14.6
15.868	24.1	20.7	44.8	60.0	-15.2
15.150	23.9	20.7	44.6	60.0	-15.4
15.066	23.6	20.7	44.3	60.0	-15.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.456	17.9	20.7	38.6	50.0	-11.4
15.339	17.6	20.7	38.3	50.0	-11.7
15.605	17.3	20.7	38.0	50.0	-12.0
15.503	17.0	20.7	37.7	50.0	-12.3
15.868	16.4	20.7	37.1	50.0	-12.9
15.150	16.1	20.7	36.8	50.0	-13.2
15.066	15.6	20.7	36.3	50.0	-13.7