



Microsoft Corporation

Model 1631

FCC 15.247:2014

FCC 15.207:2014

Report #: MCSO1698 PART 5 OF 7



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington

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 (mo.)
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
MXG Analog Signal Generator	Agilent	N5181A	TIG	NCR	0
Power Meter	Gigatronics	8651A	SPM	11/26/2013	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24


TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

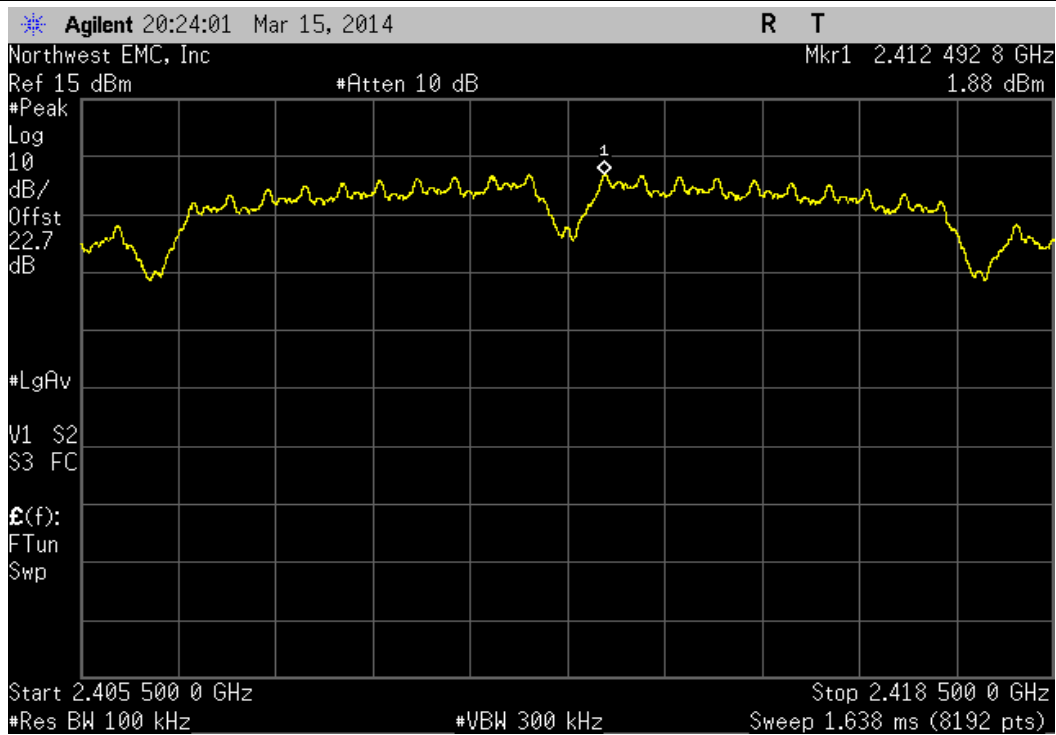


SPURIOUS CONDUCTED EMISSIONS

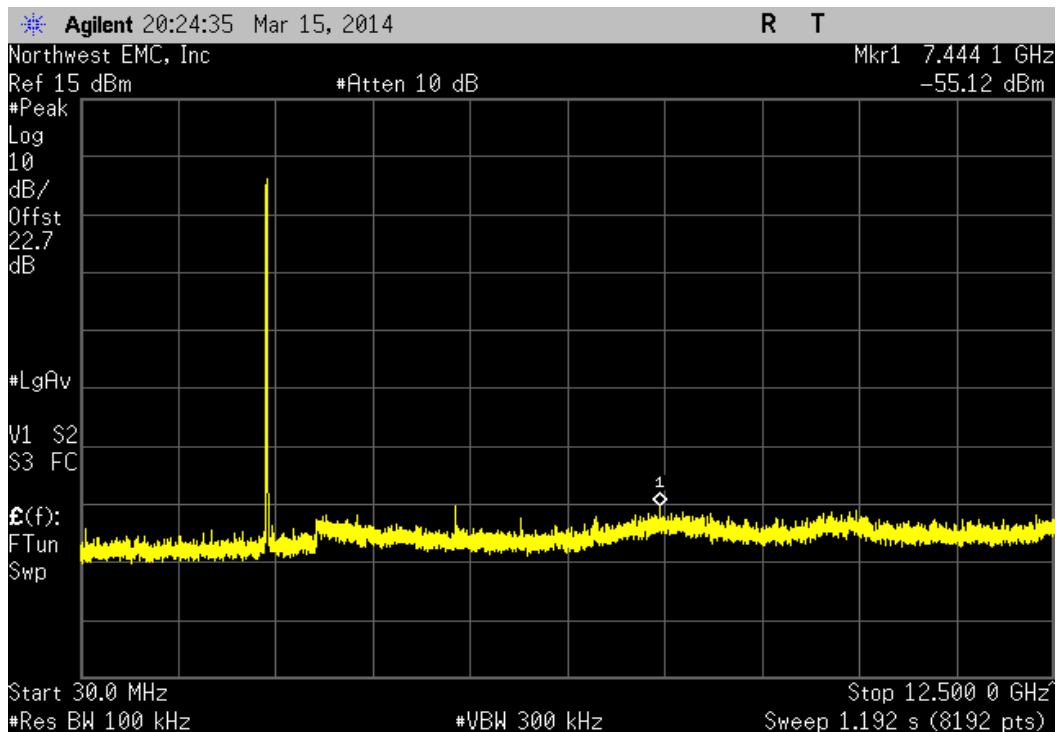
XMt 2013.08.15
PsaTx 2013.10.23

EUT: Model 1631		Work Order: MCSO1698	
Serial Number: 041148340753		Date: 03/22/14	
Customer: Microsoft Corporation		Temperature: 21.5°C	
Attendees: None		Humidity: 29%	
Project: 1631		Barometric Pres.: 1007	
Tested by: Brandon Hobbs, Jared Ison		Power: 110VAC/60Hz	
		Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	
COMMENTS			
Modes of operation tested were client provided.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Frequency Range	Value Limit Result
20 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-57 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-54.13 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-56.13 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-56.38 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-54.32 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-56.5 dBc ≤ -20 dBc Pass
802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-57.64 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-54.48 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-59.73 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-56.67 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-58.79 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-56.26 dBc ≤ -20 dBc Pass
802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-52.49 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-51.71 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.93 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-53.57 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.5 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-55.16 dBc ≤ -20 dBc Pass
802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-52.4 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-51.85 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.46 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-55.08 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.14 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-55.38 dBc ≤ -20 dBc Pass
802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-52.47 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-51.81 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.81 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.41 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.91 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.52 dBc ≤ -20 dBc Pass
802.11(n) MCS0			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-52.66 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-51.46 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.21 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-53.92 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.9 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.3 dBc ≤ -20 dBc Pass
802.11(n) MCS7			
	Low Channel 1, 2412 MHz	Fundamental	N/A N/A N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-52.38 dBc ≤ -20 dBc Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.14 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	Fundamental	N/A N/A N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-58.29 dBc ≤ -20 dBc Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.96 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	Fundamental	N/A N/A N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.01 dBc ≤ -20 dBc Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.55 dBc ≤ -20 dBc Pass

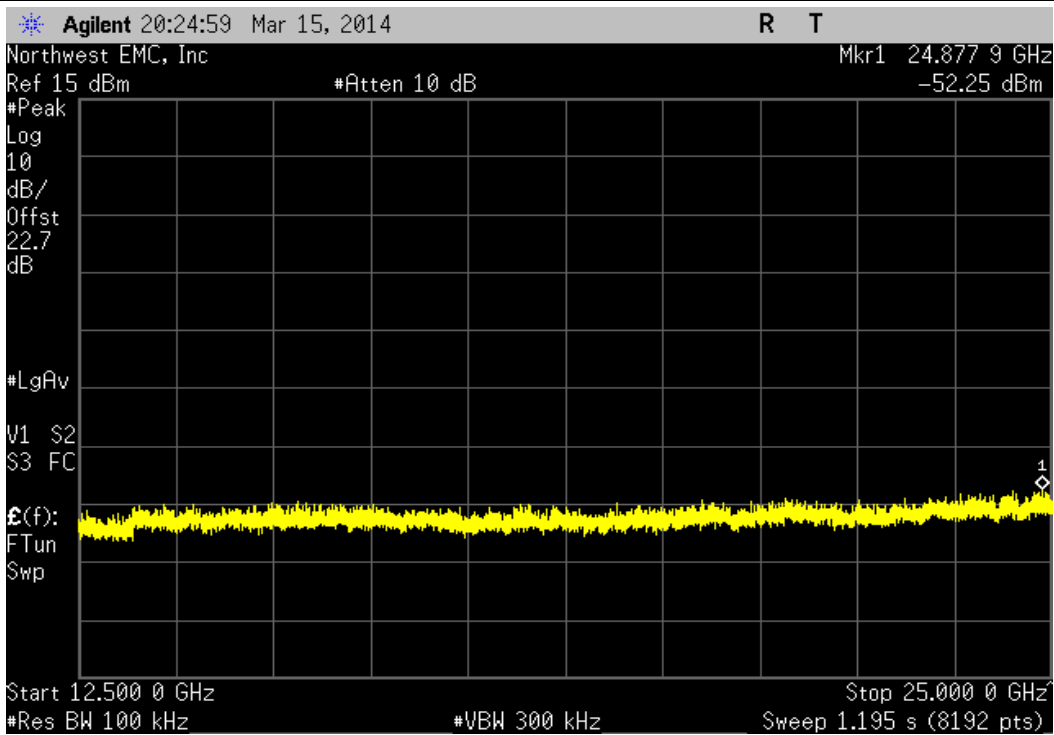
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



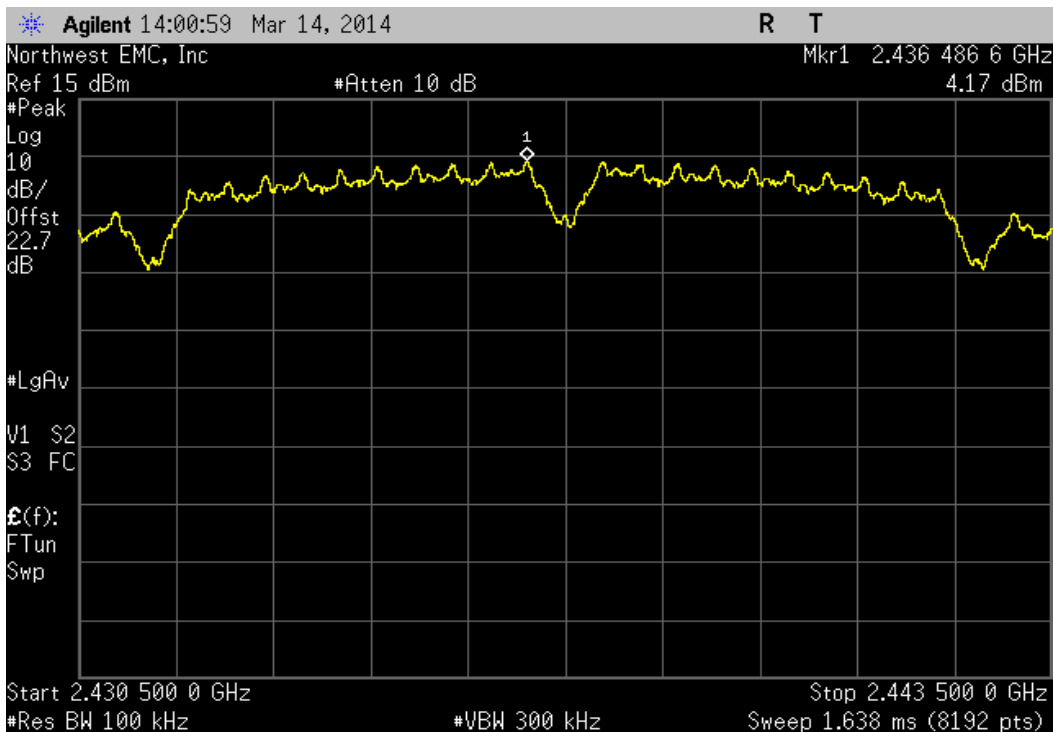
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57 dBc	≤ -20 dBc	Pass



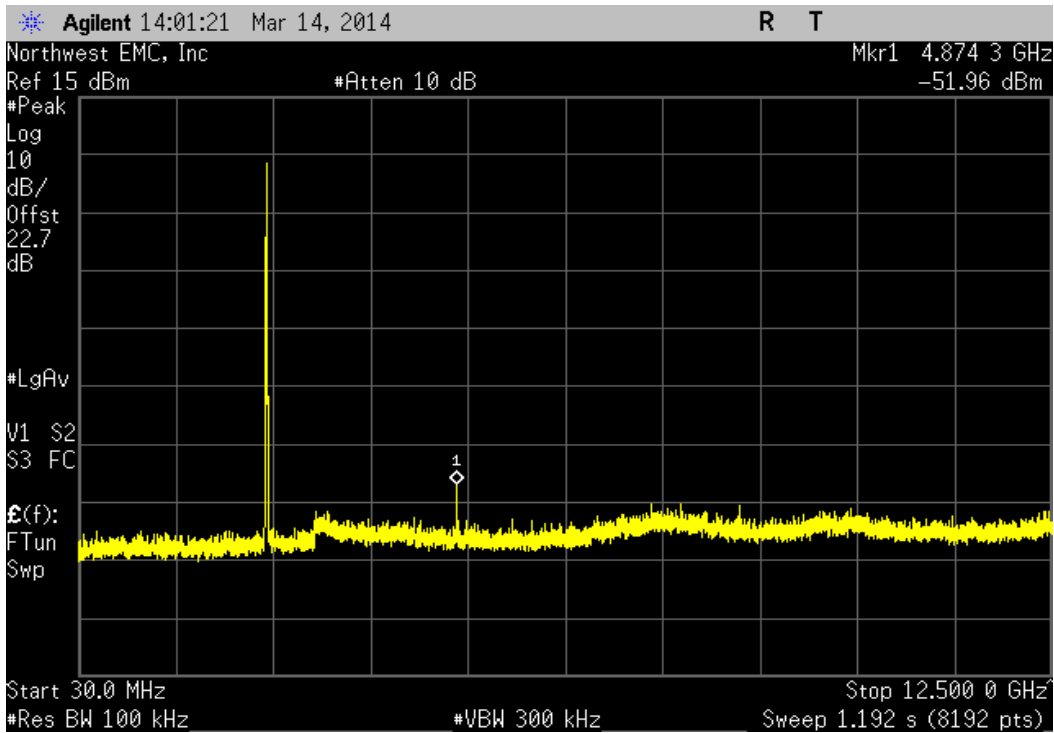
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.13 dBc	≤ -20 dBc	Pass



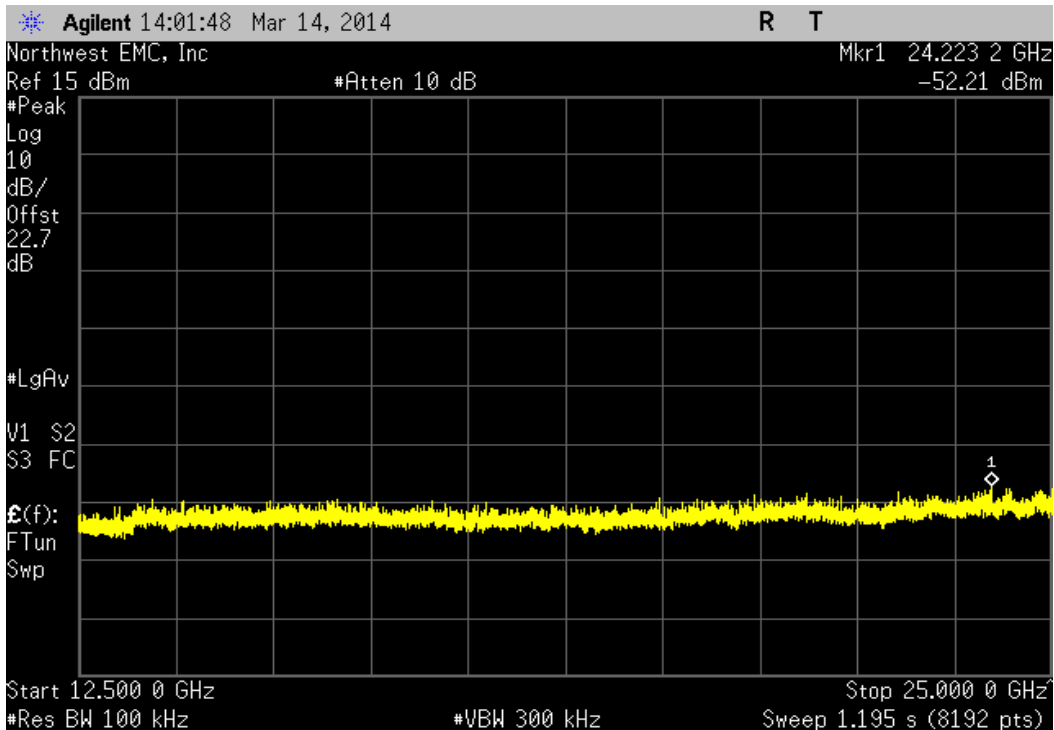
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



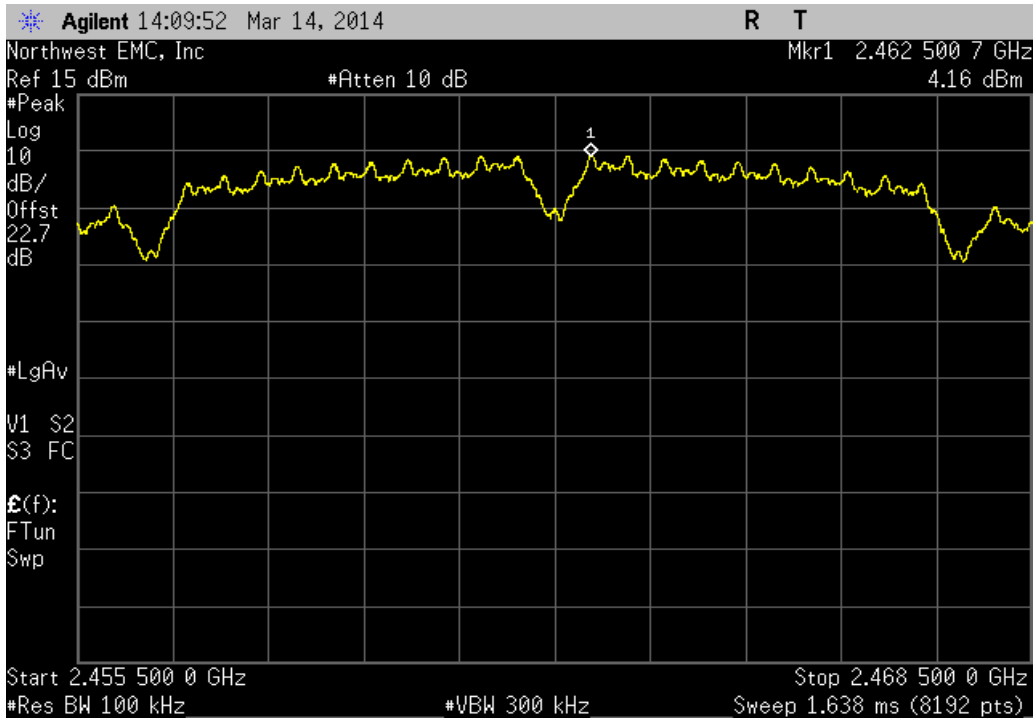
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.13 dBc	≤ -20 dBc	Pass



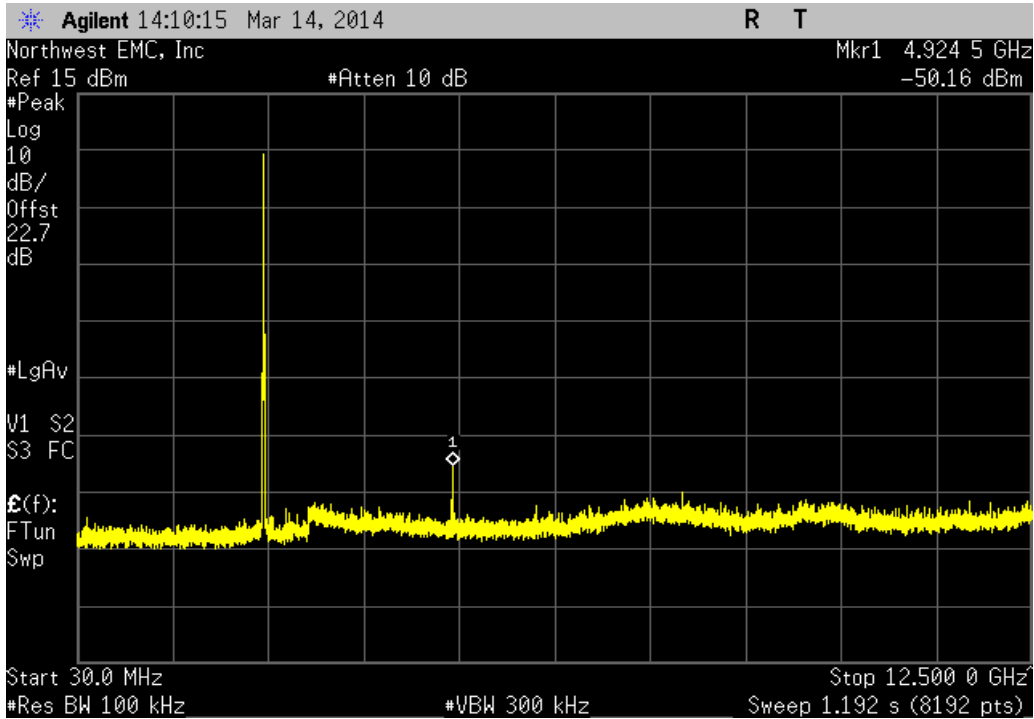
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-56.38 dBc	≤ -20 dBc	Pass



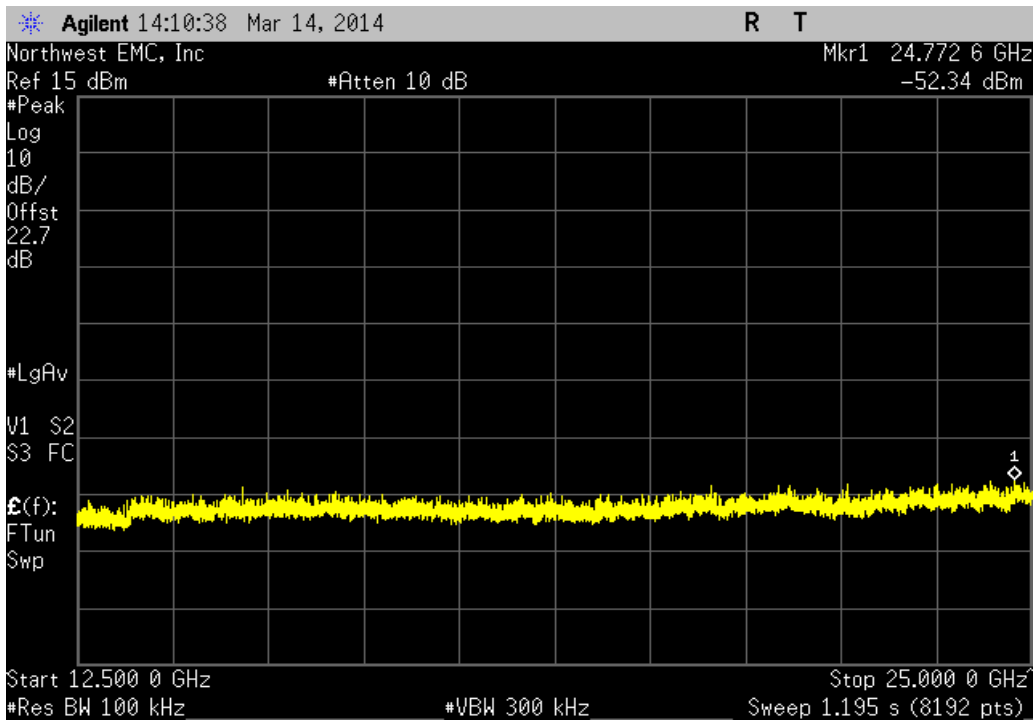
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



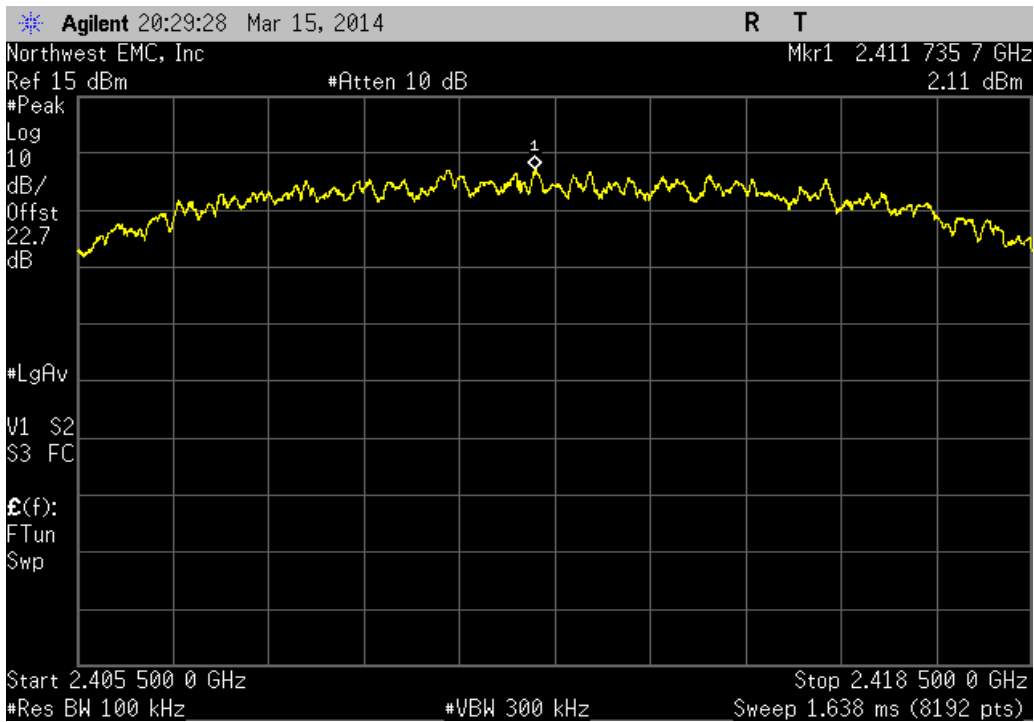
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.32 dBc	≤ -20 dBc	Pass



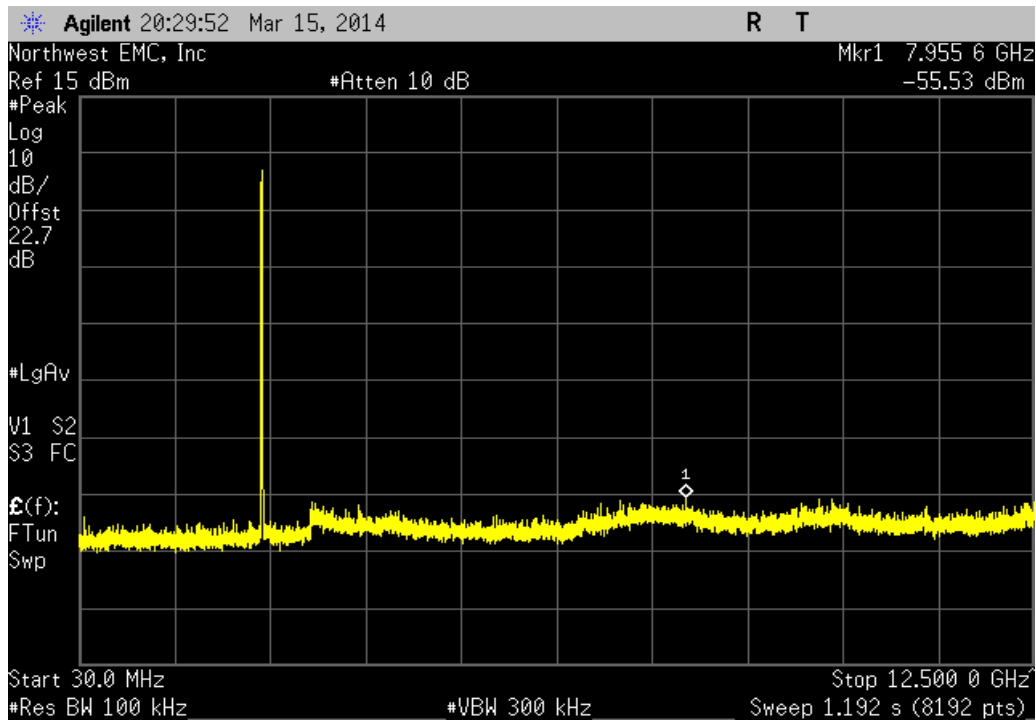
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-56.5 dBc	≤ -20 dBc	Pass



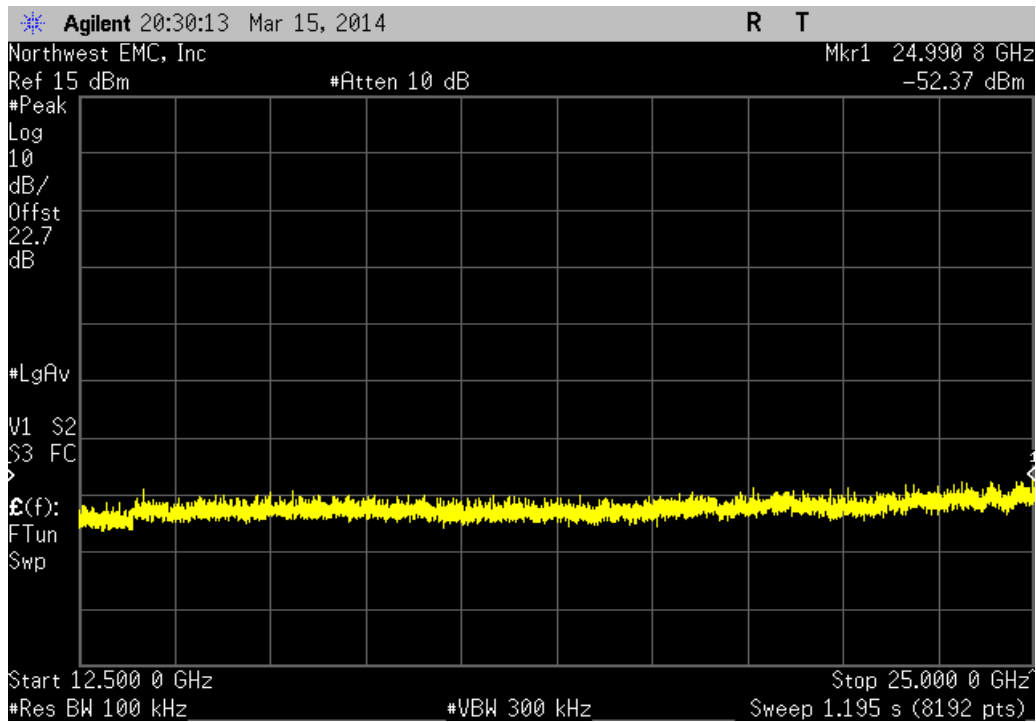
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



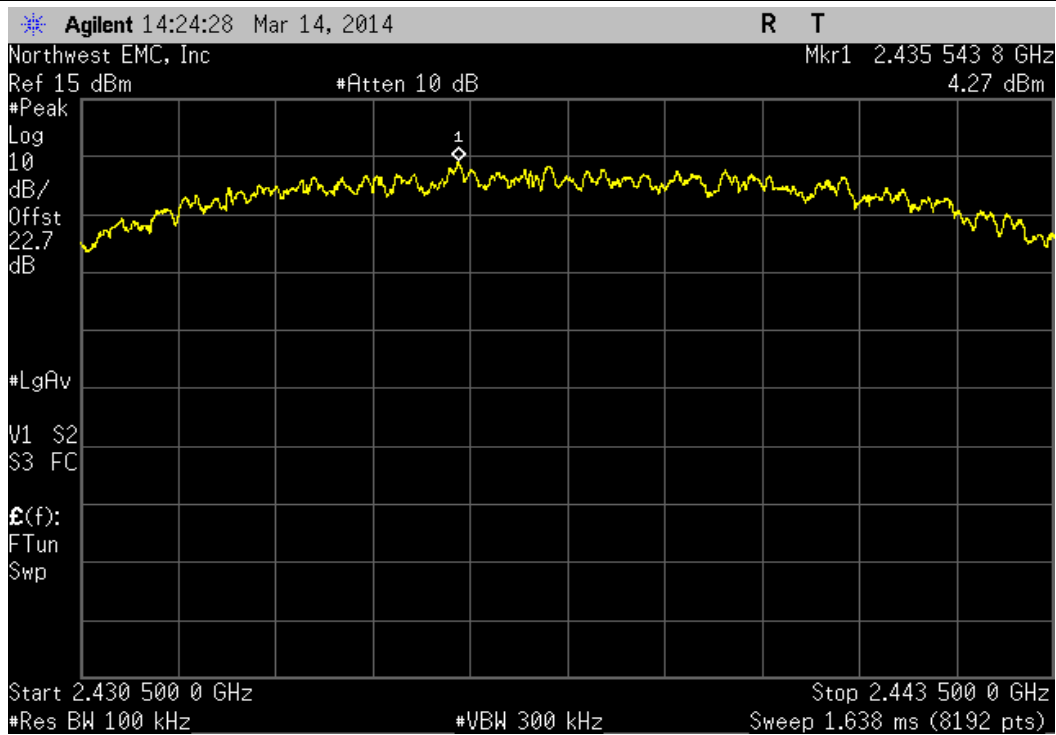
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.64 dBc	≤ -20 dBc	Pass



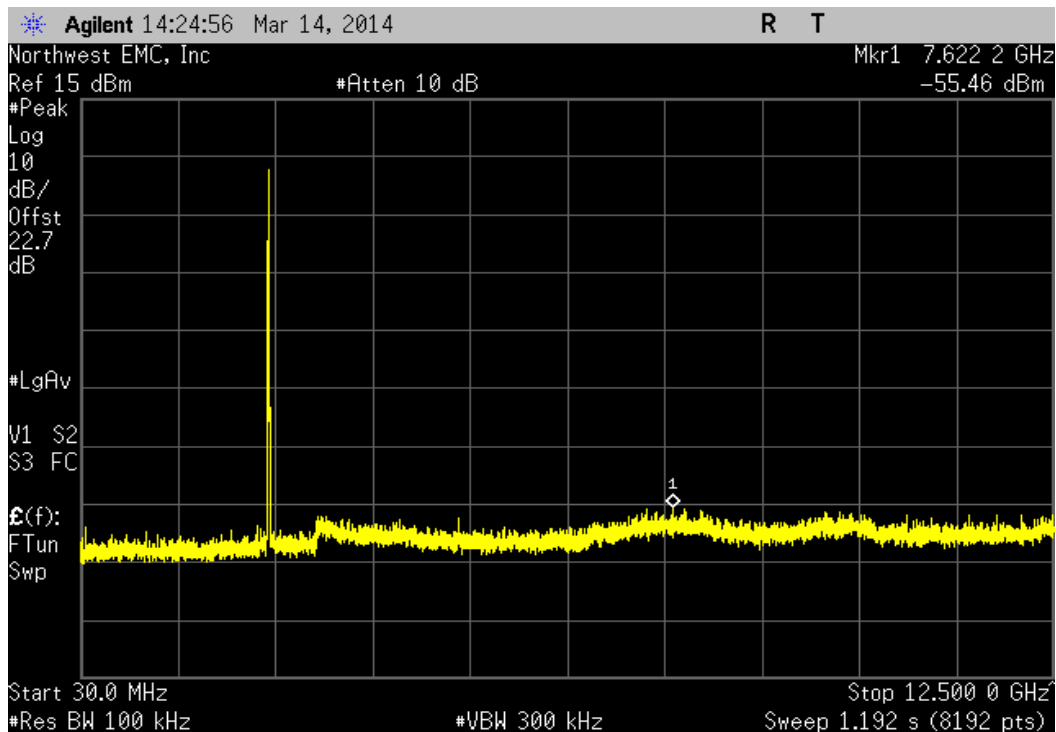
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.48 dBc	≤ -20 dBc	Pass



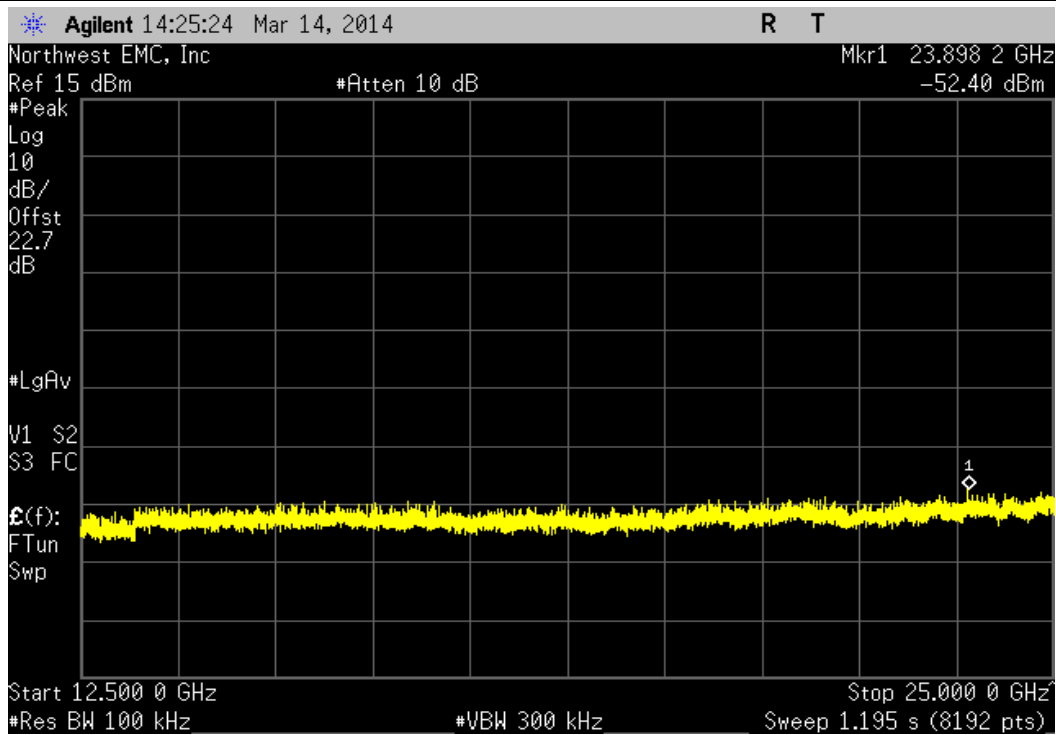
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



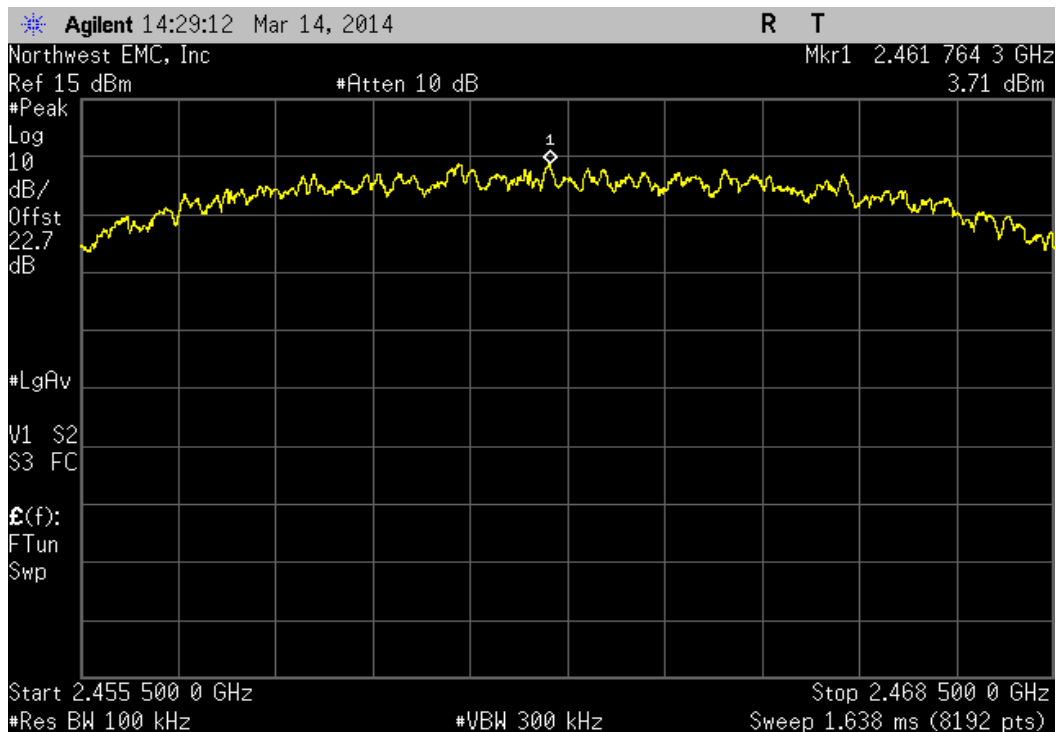
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-59.73 dBc	≤ -20 dBc	Pass



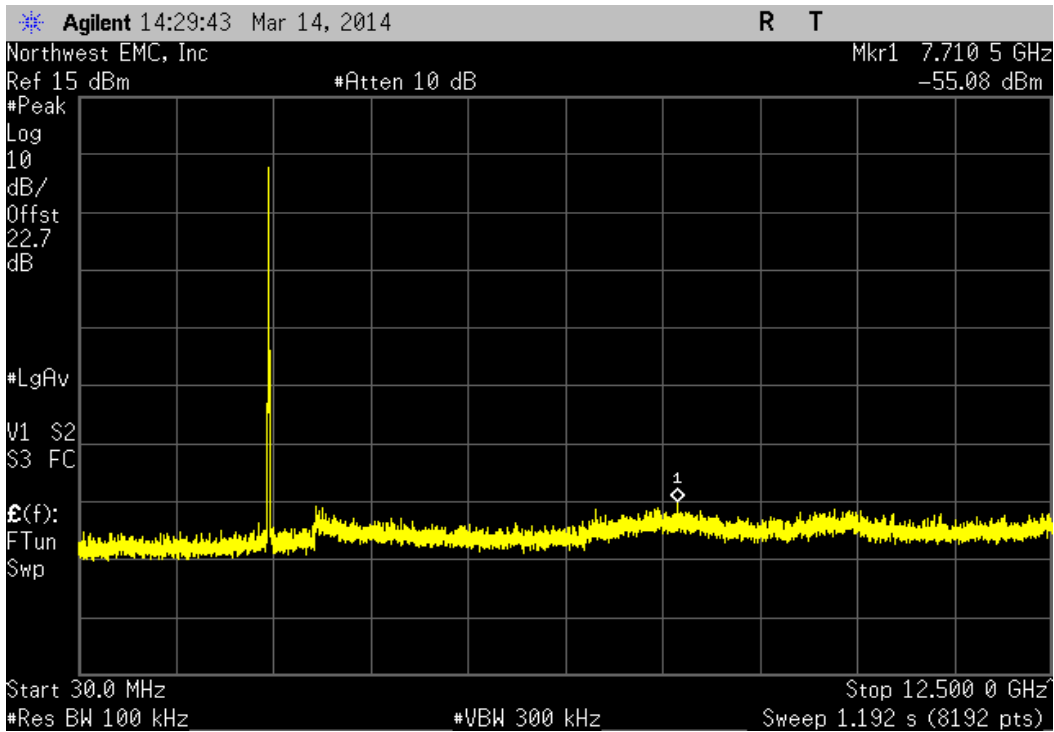
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-56.67 dBc	≤ -20 dBc	Pass



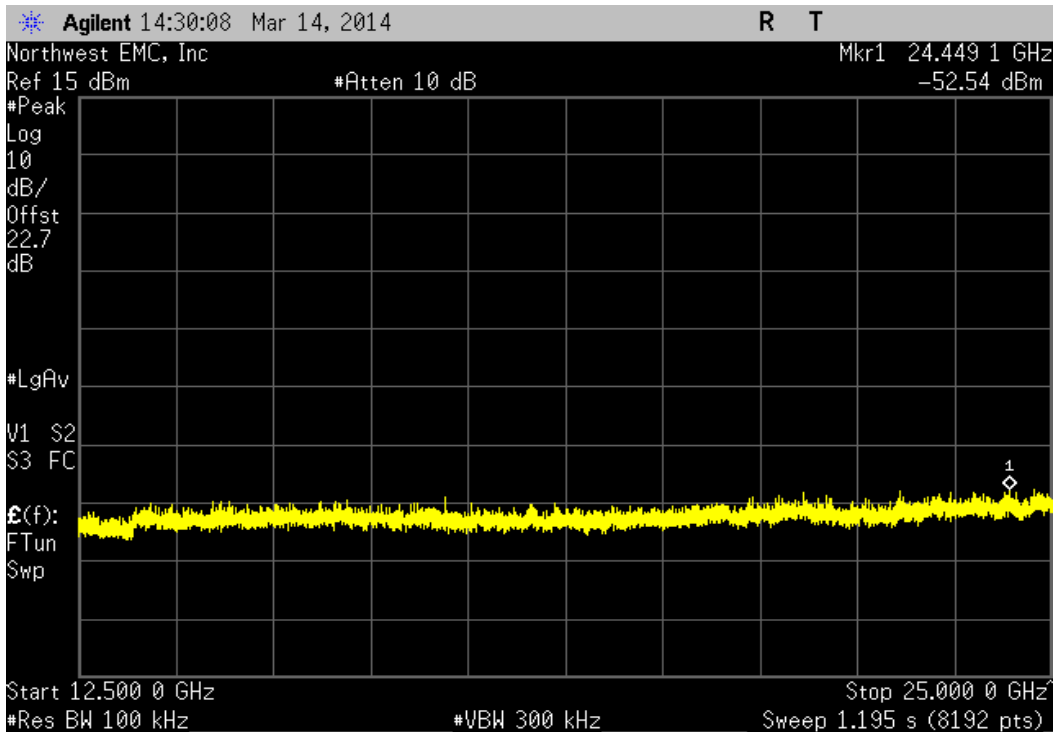
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



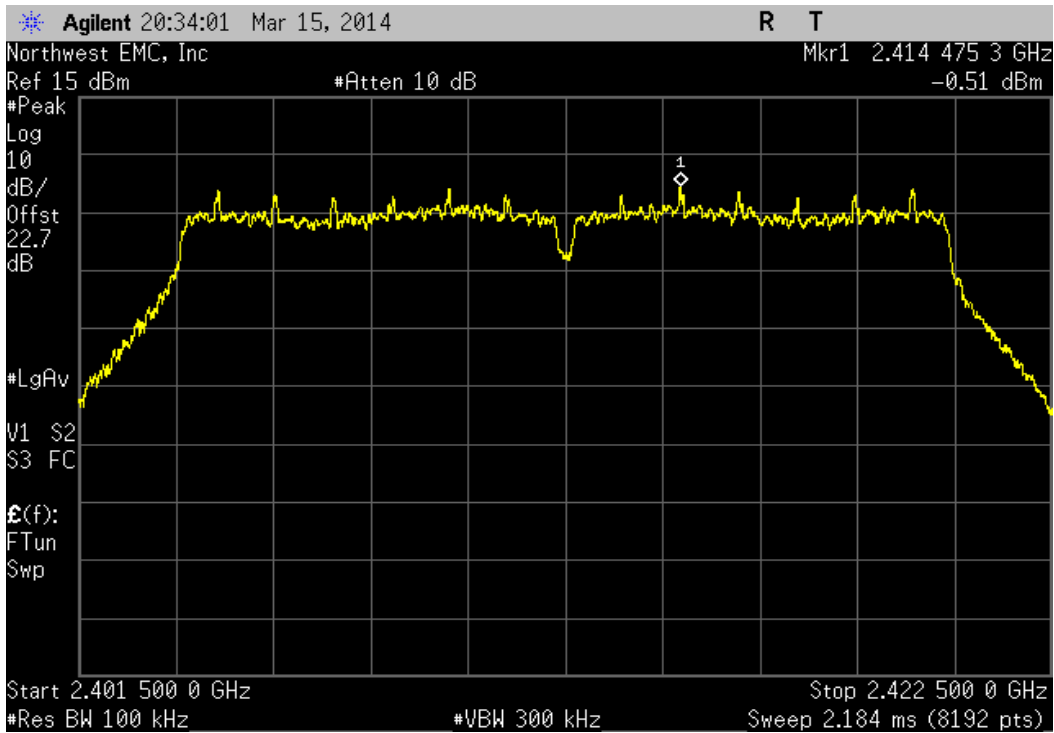
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-58.79 dBc	≤ -20 dBc	Pass



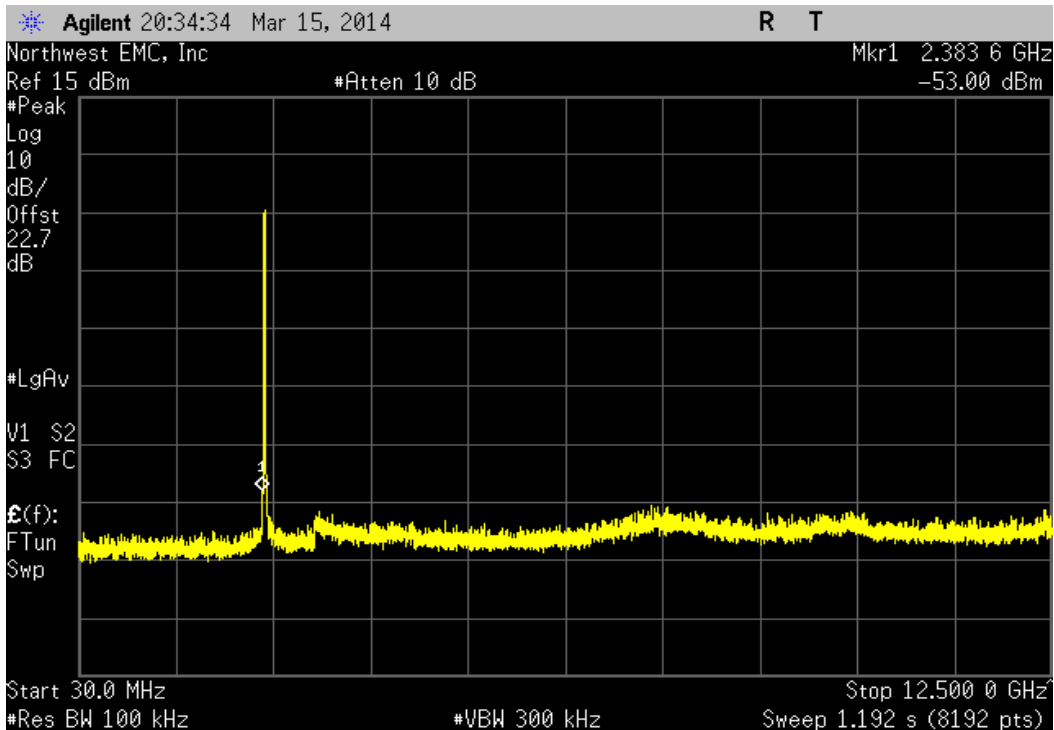
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-56.26 dBc	≤ -20 dBc	Pass



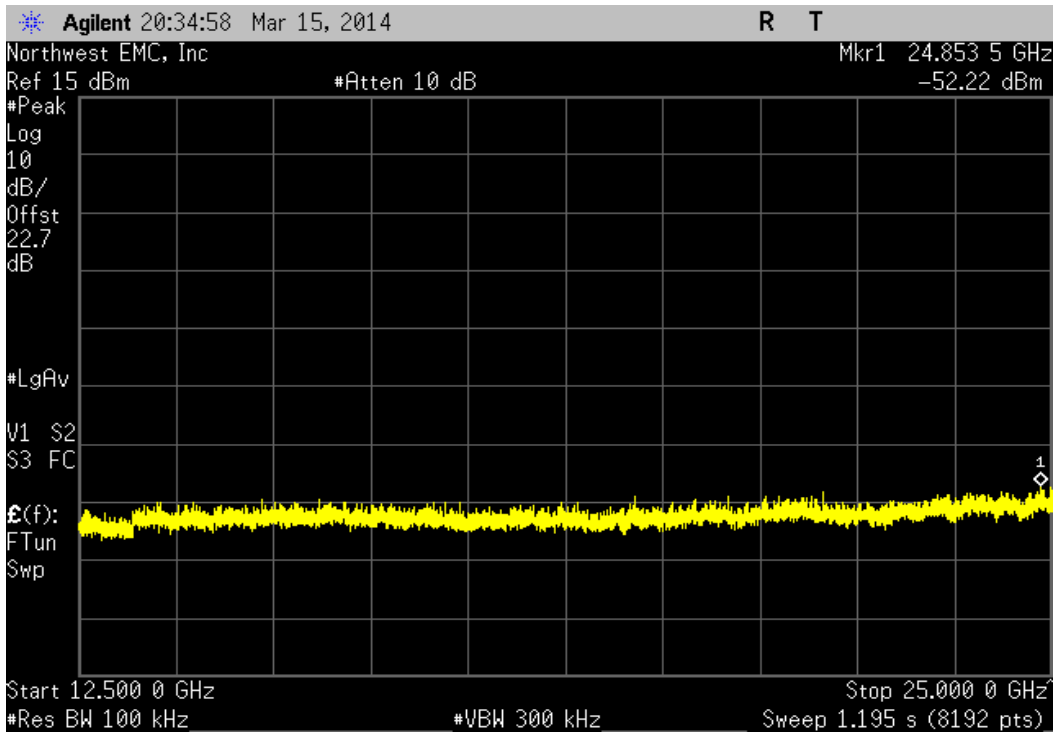
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



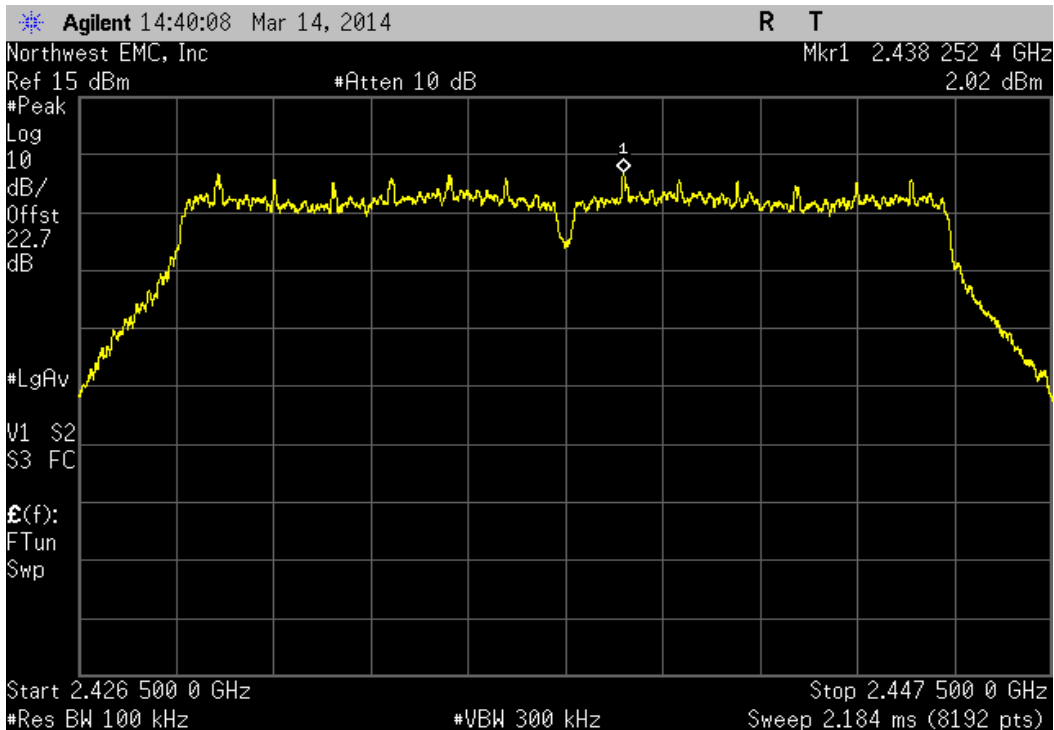
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-52.49 dBc	≤ -20 dBc	Pass		



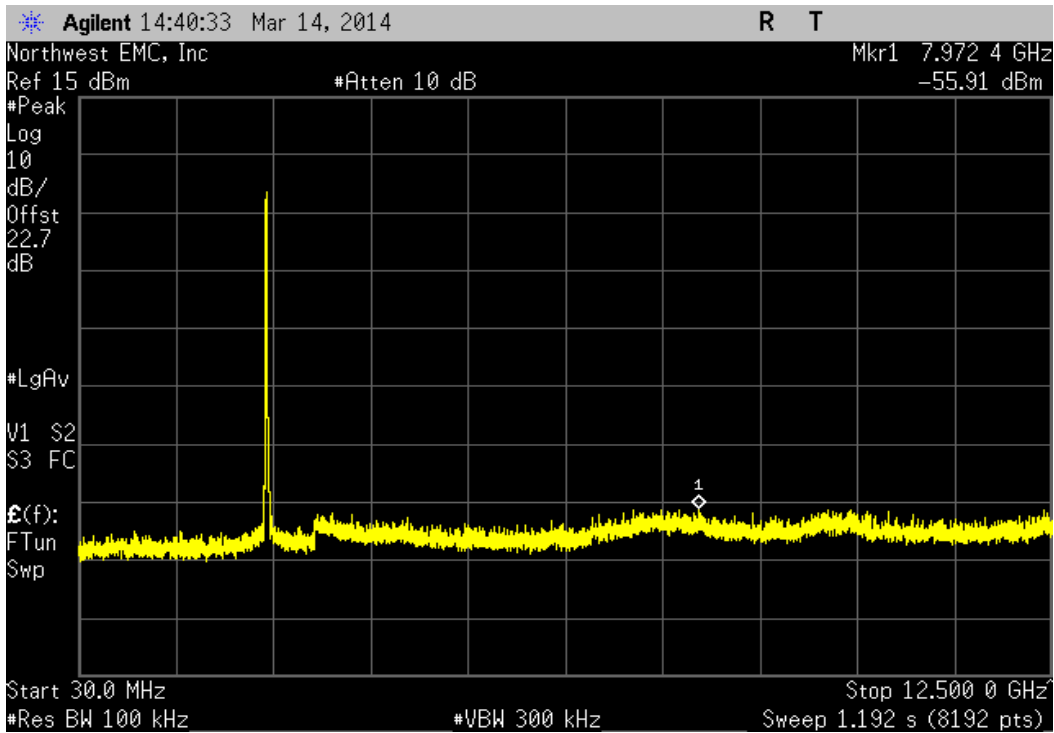
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.71 dBc	≤ -20 dBc	Pass



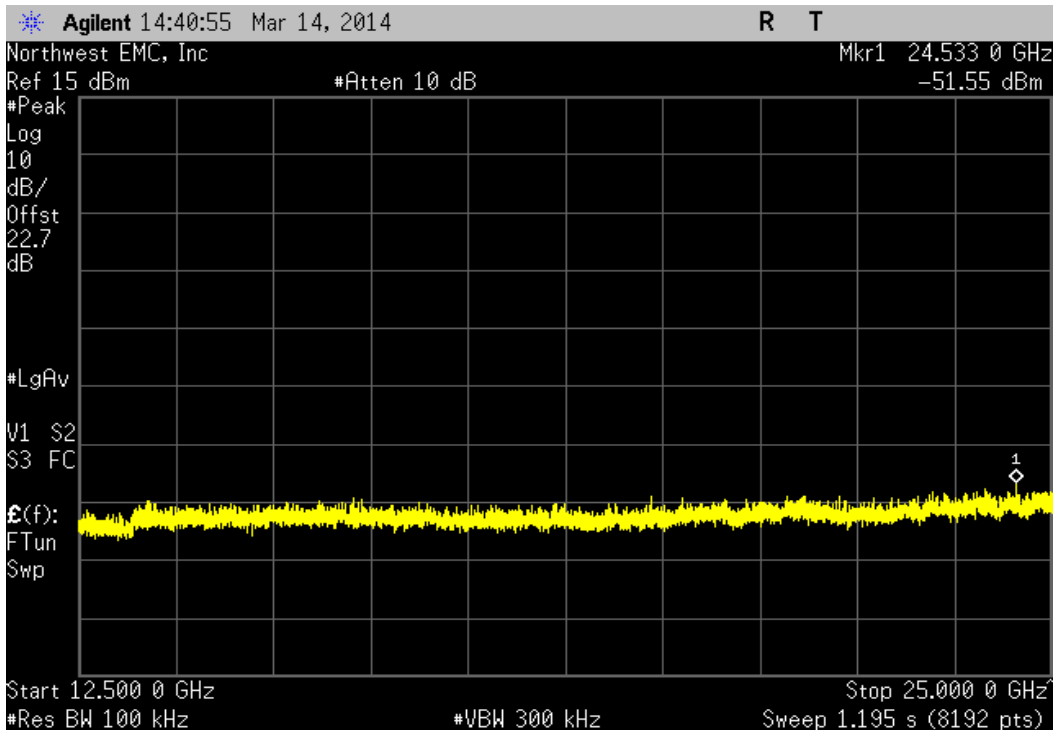
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



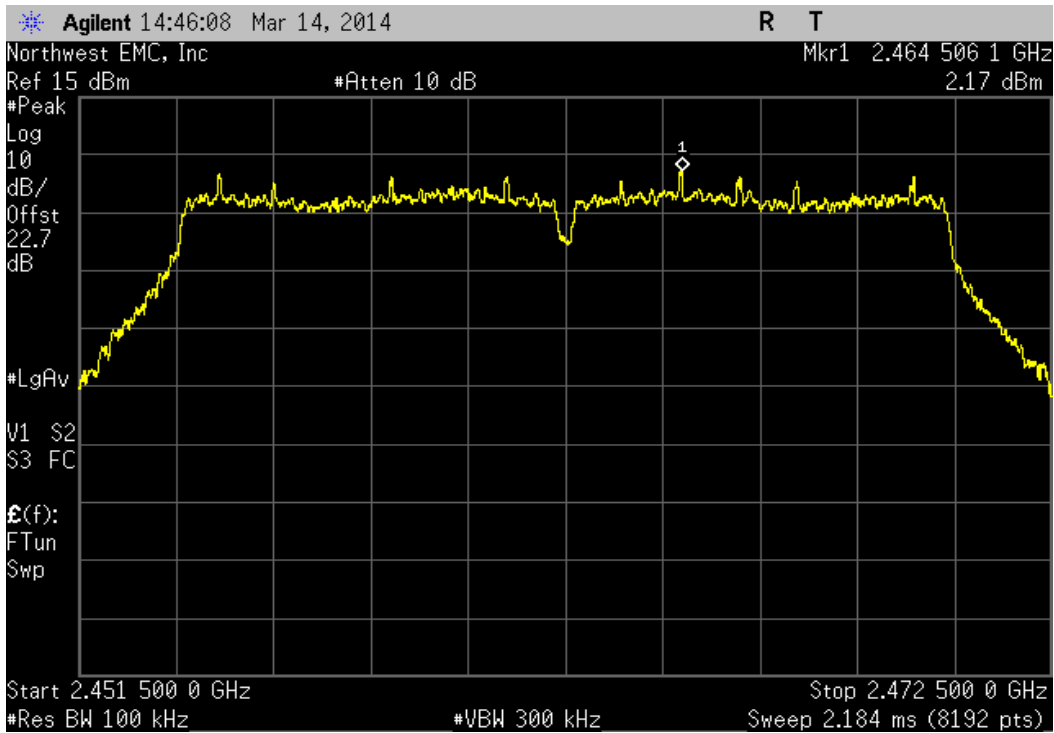
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.93 dBc	≤ -20 dBc	Pass



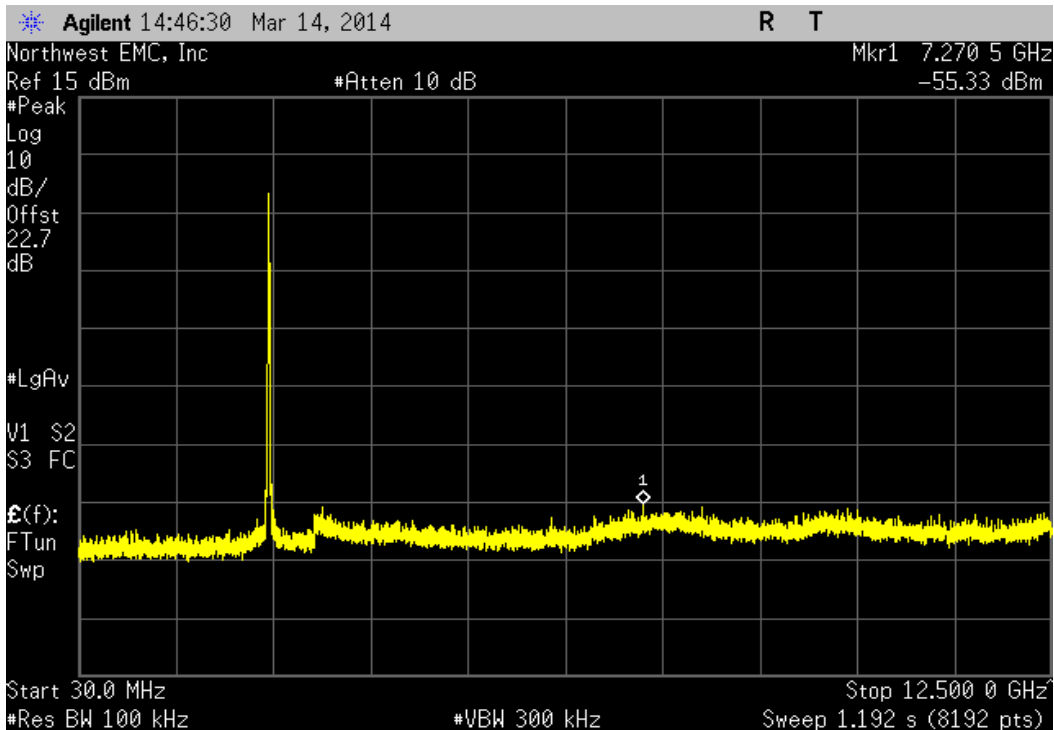
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.57 dBc	≤ -20 dBc	Pass



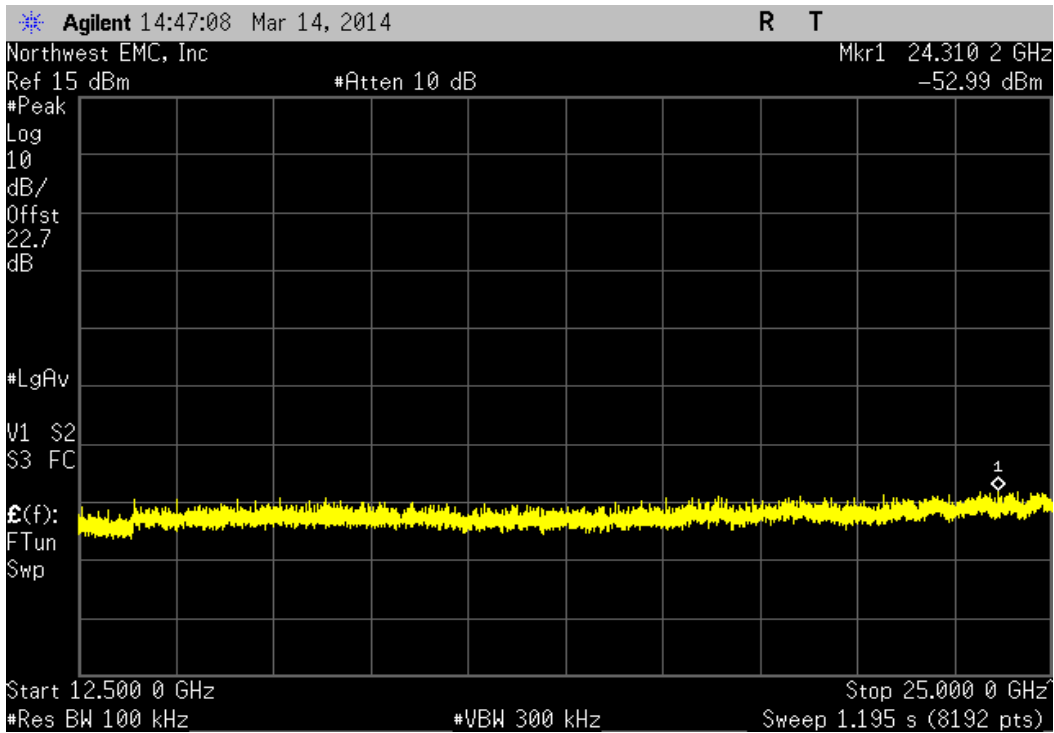
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



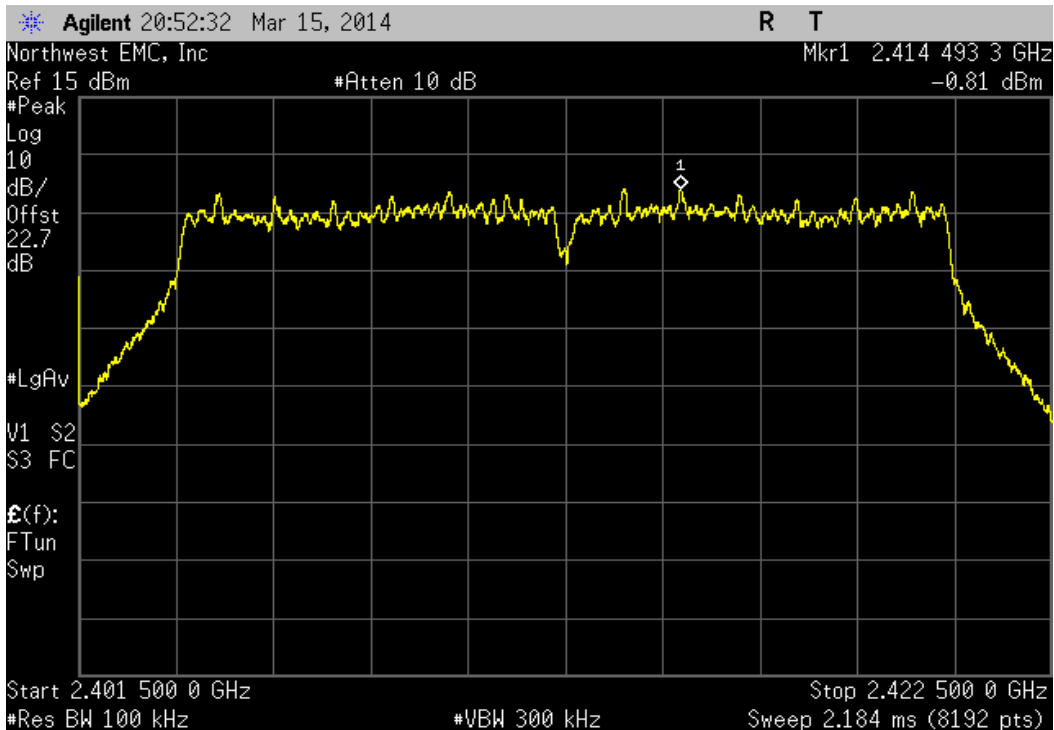
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-57.5 dBc	≤ -20 dBc	Pass		



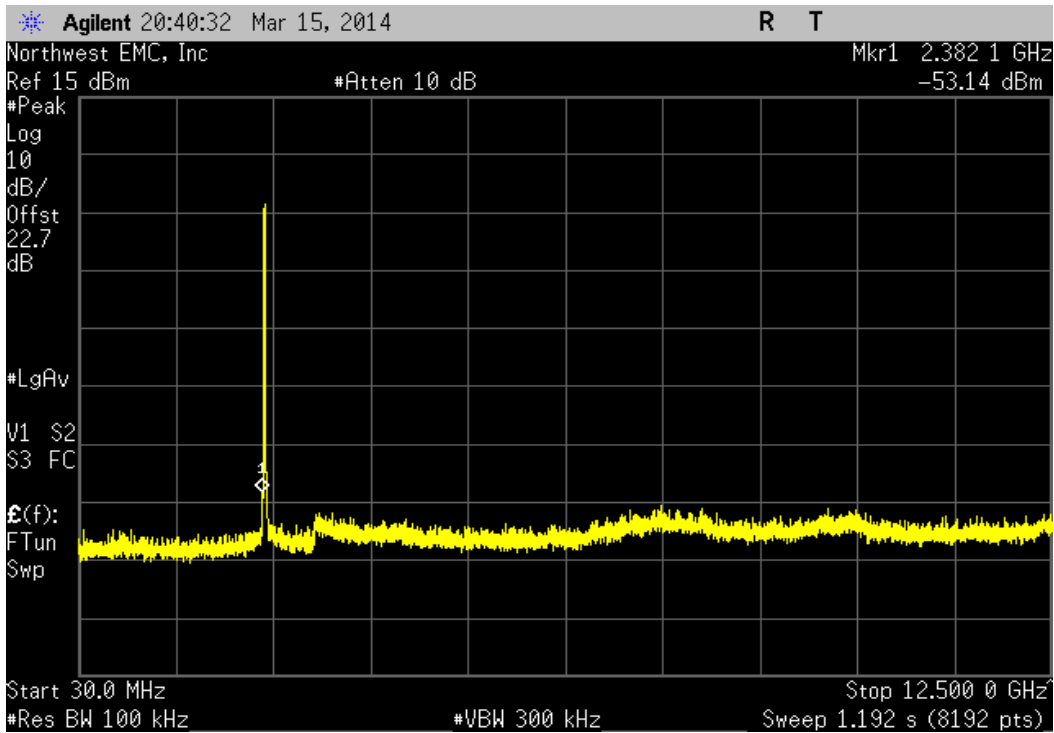
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-55.16 dBc	≤ -20 dBc	Pass



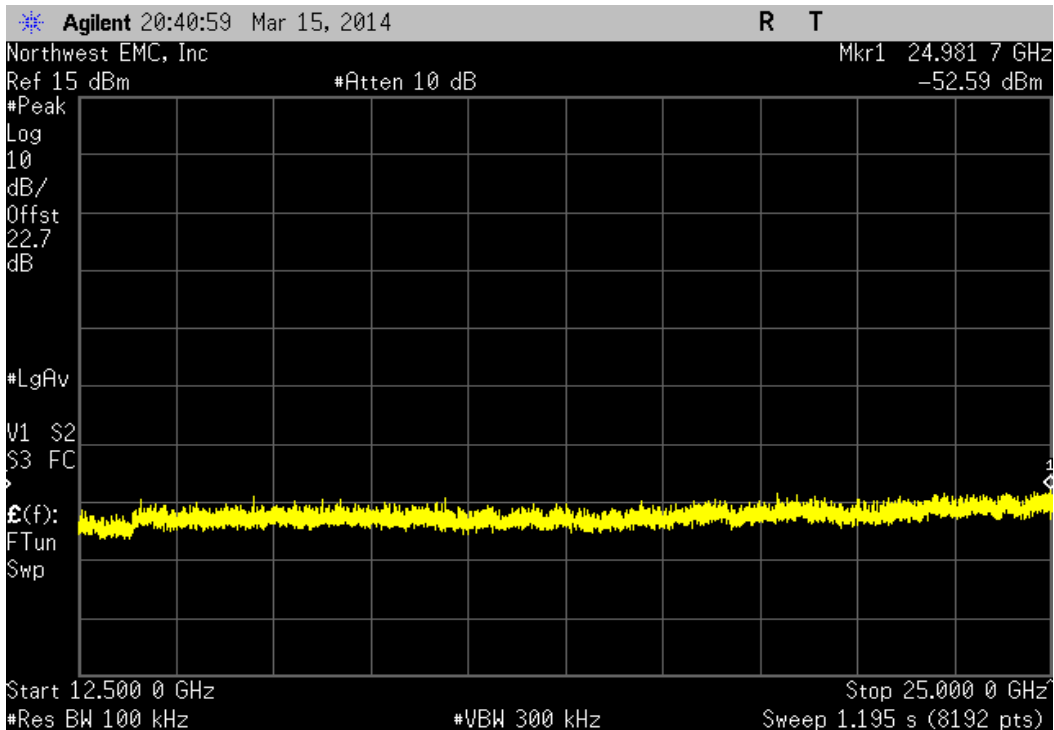
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



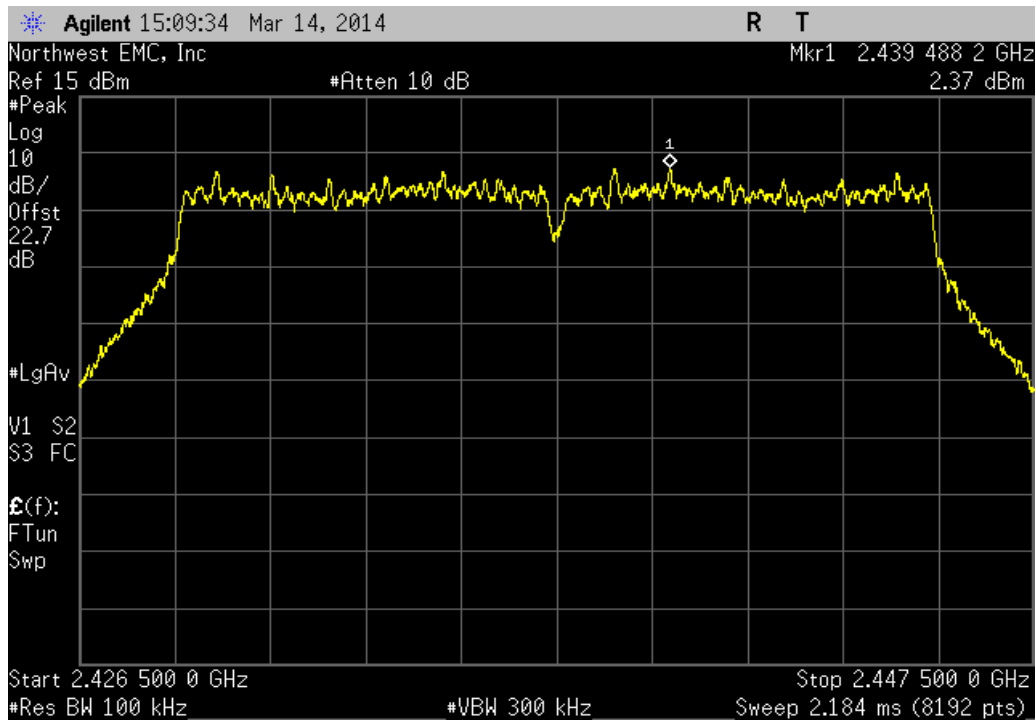
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.4 dBc	≤ -20 dBc	Pass



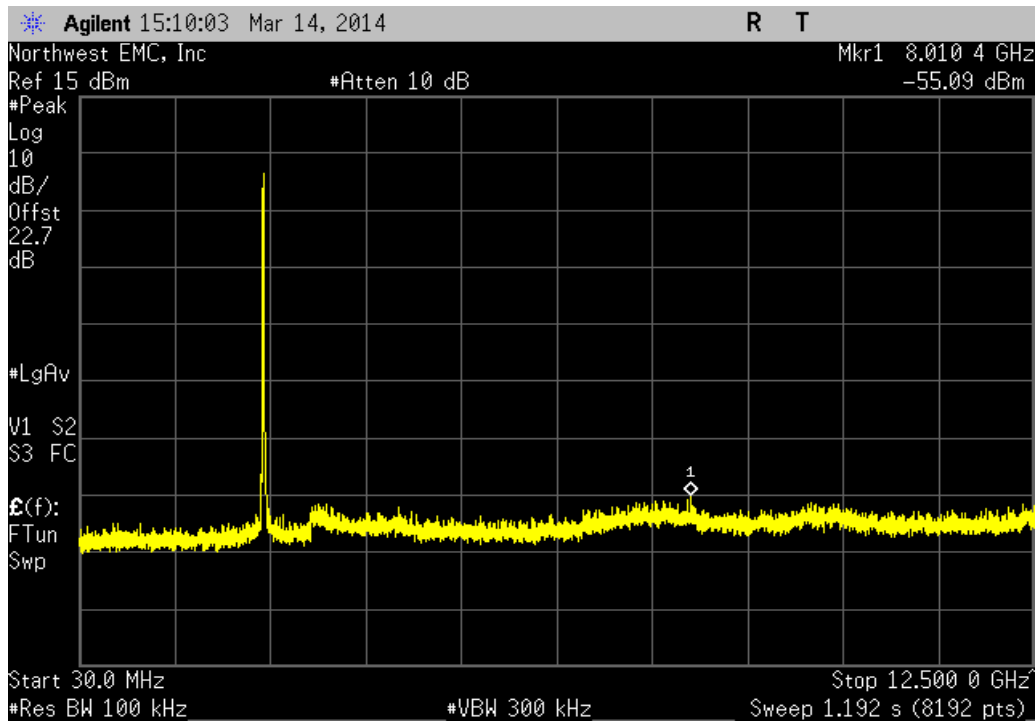
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.85 dBc	≤ -20 dBc	Pass



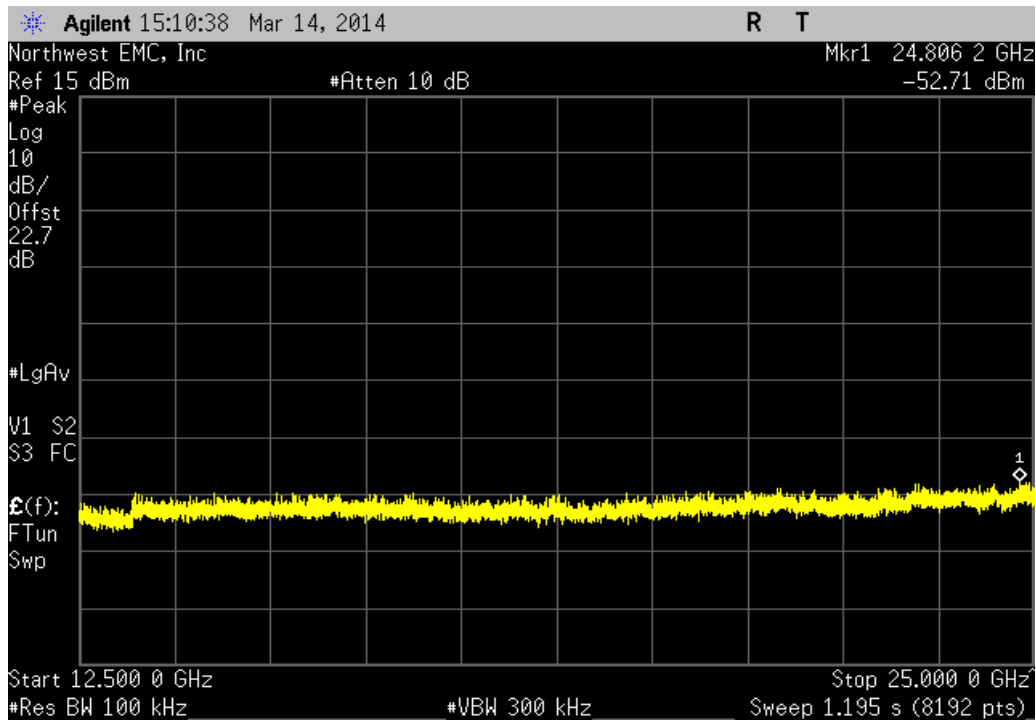
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



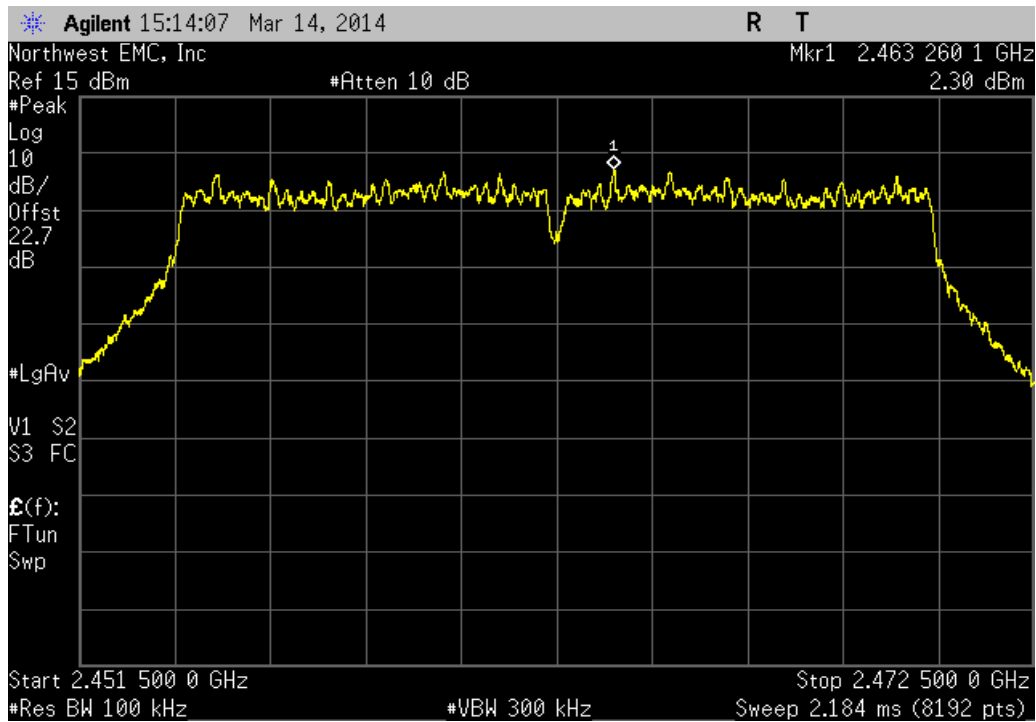
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.46 dBc	≤ -20 dBc	Pass



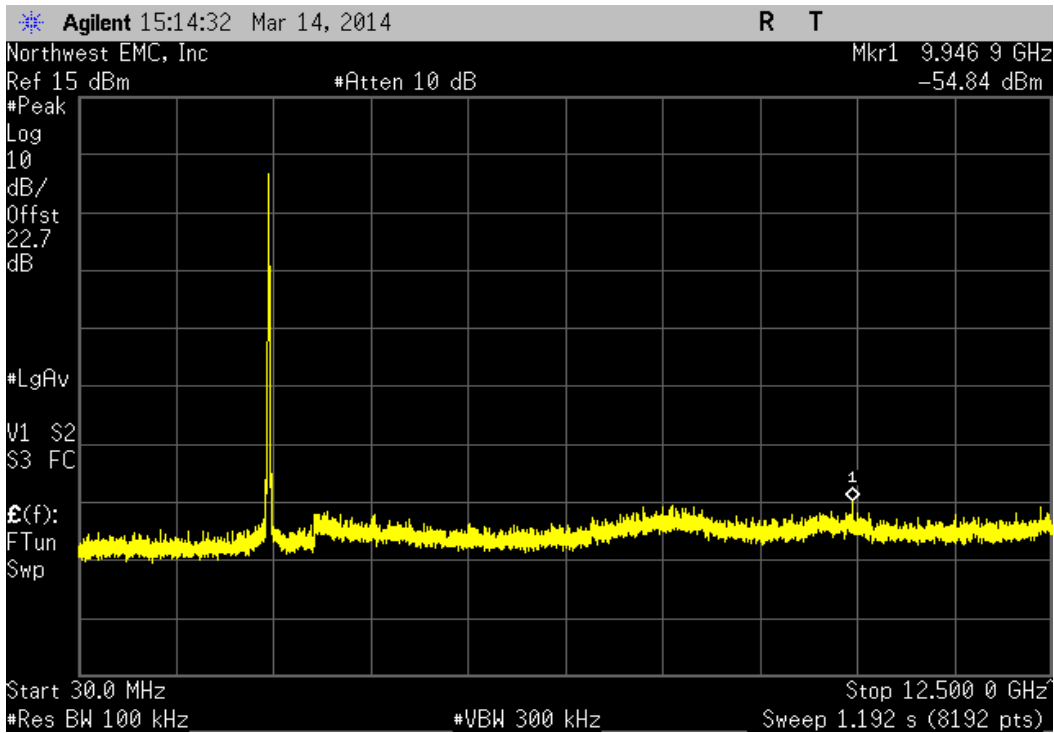
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-55.08 dBc	≤ -20 dBc	Pass



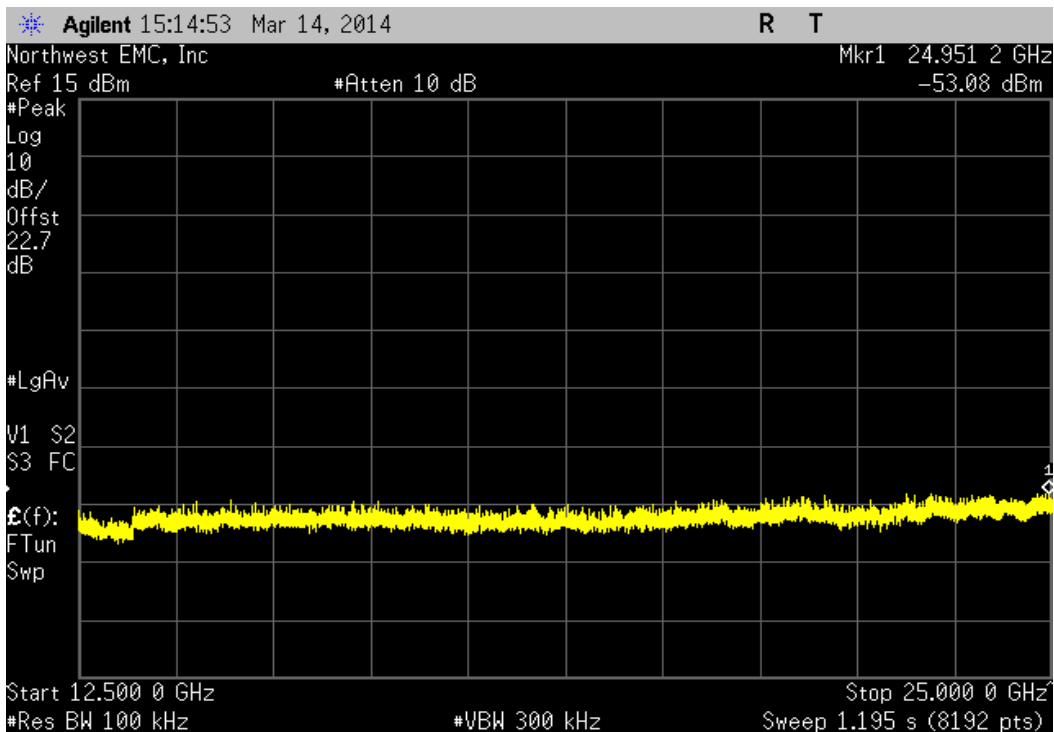
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



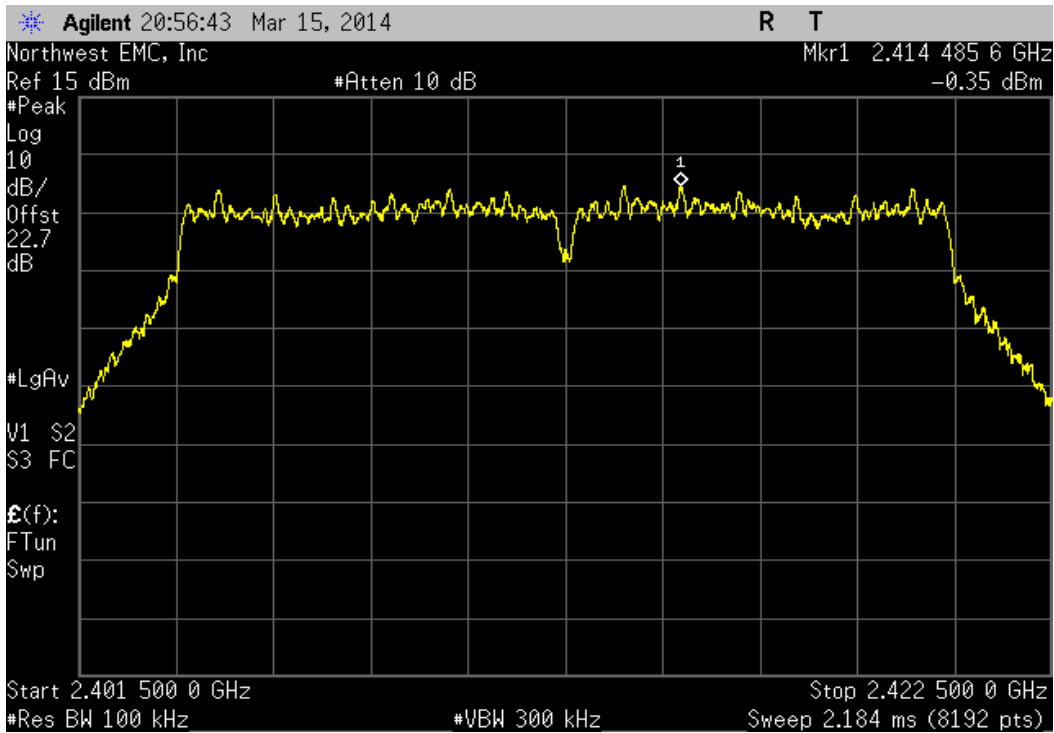
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-57.14 dBc	≤ -20 dBc	Pass



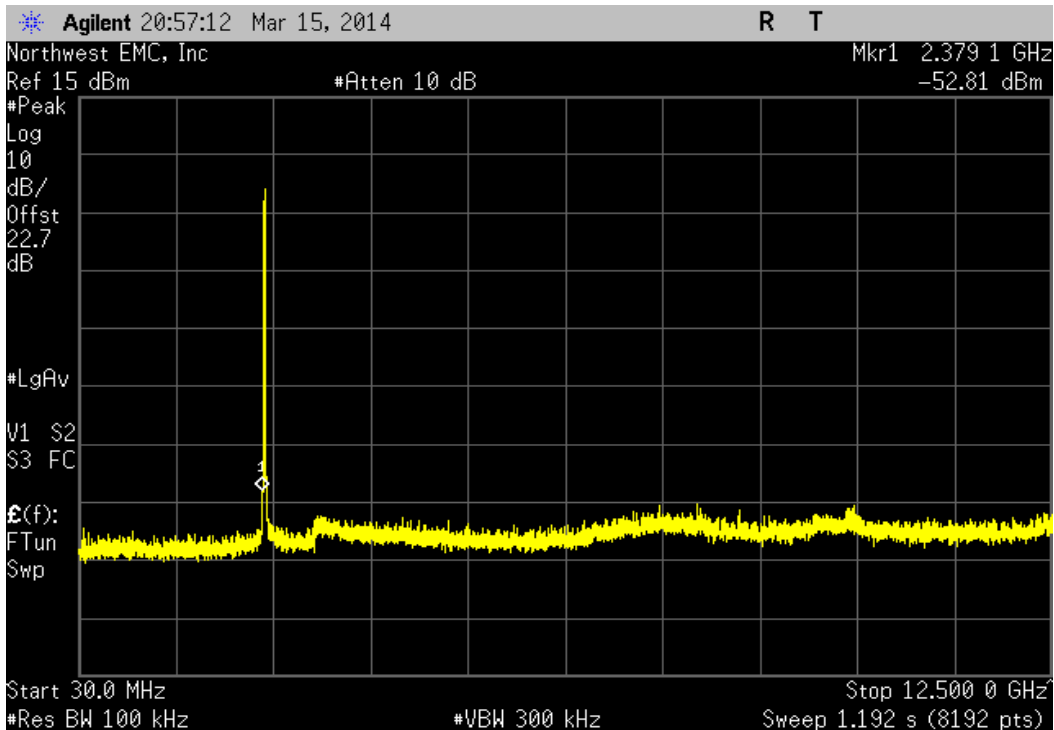
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-55.38 dBc	≤ -20 dBc	Pass



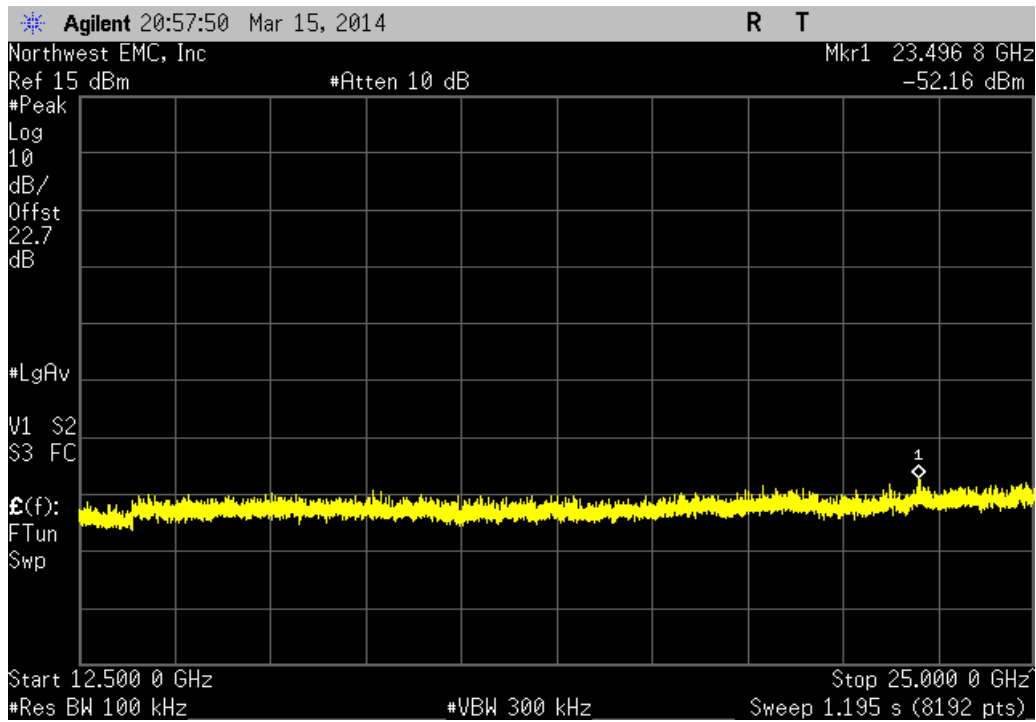
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



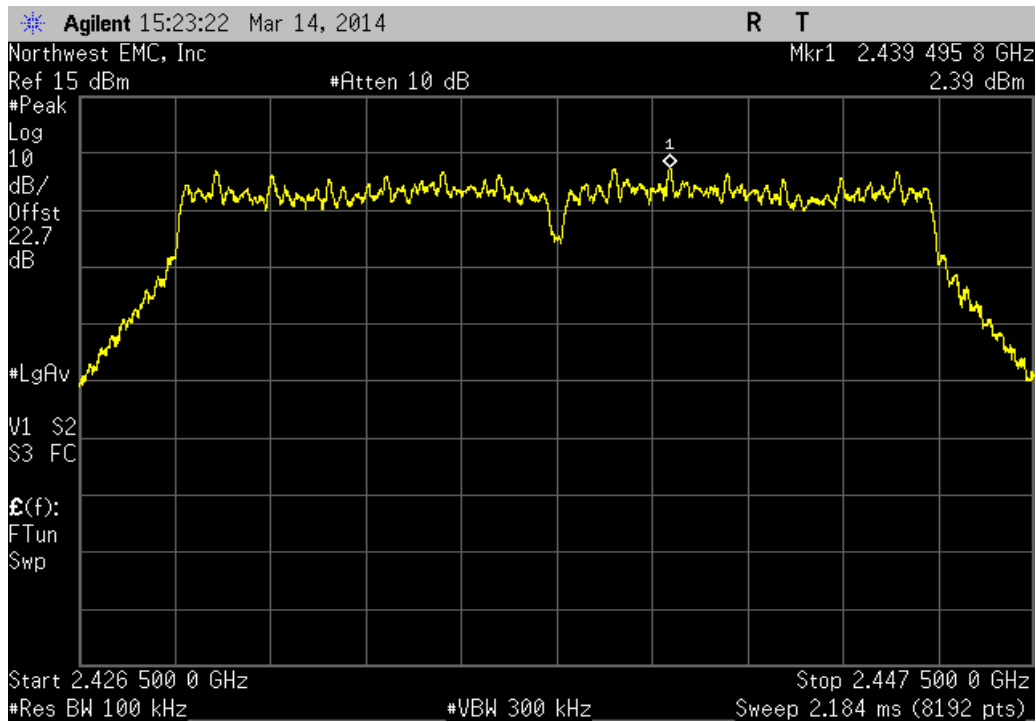
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-52.47 dBc	≤ -20 dBc	Pass		



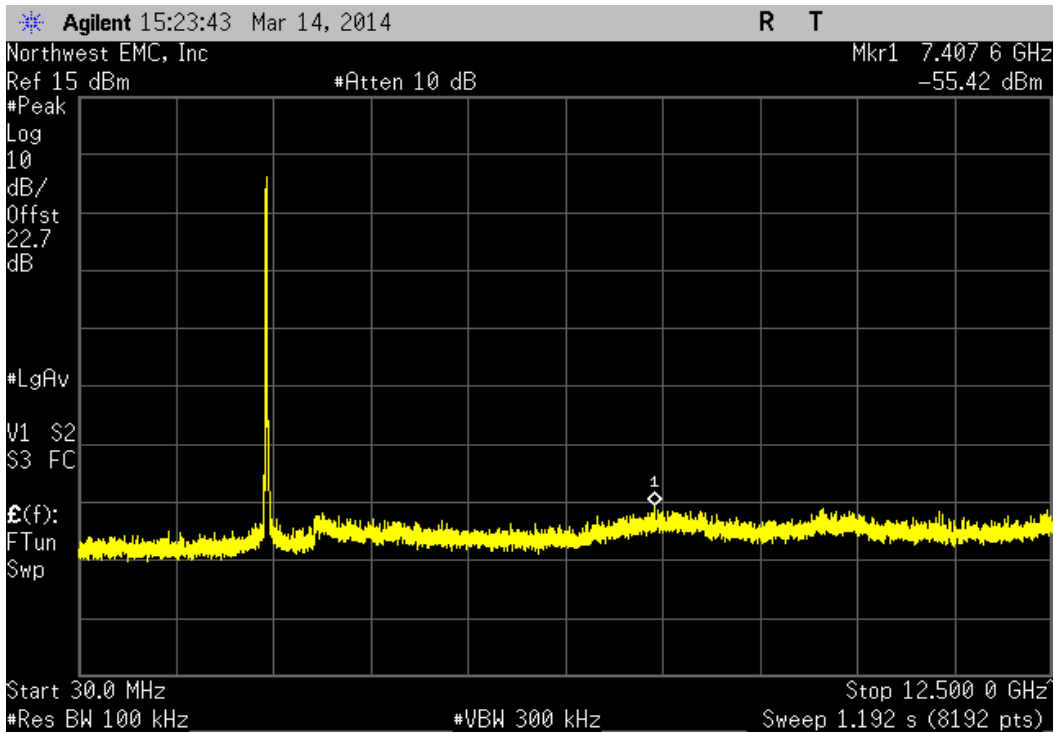
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-51.81 dBc	≤ -20 dBc	Pass



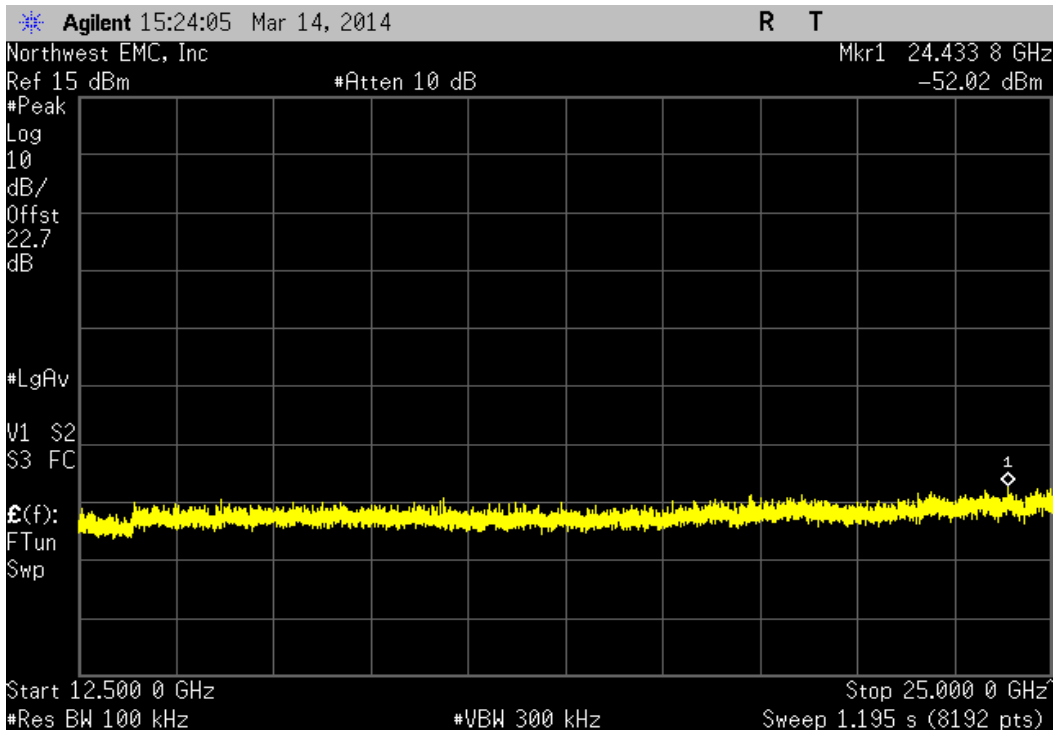
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



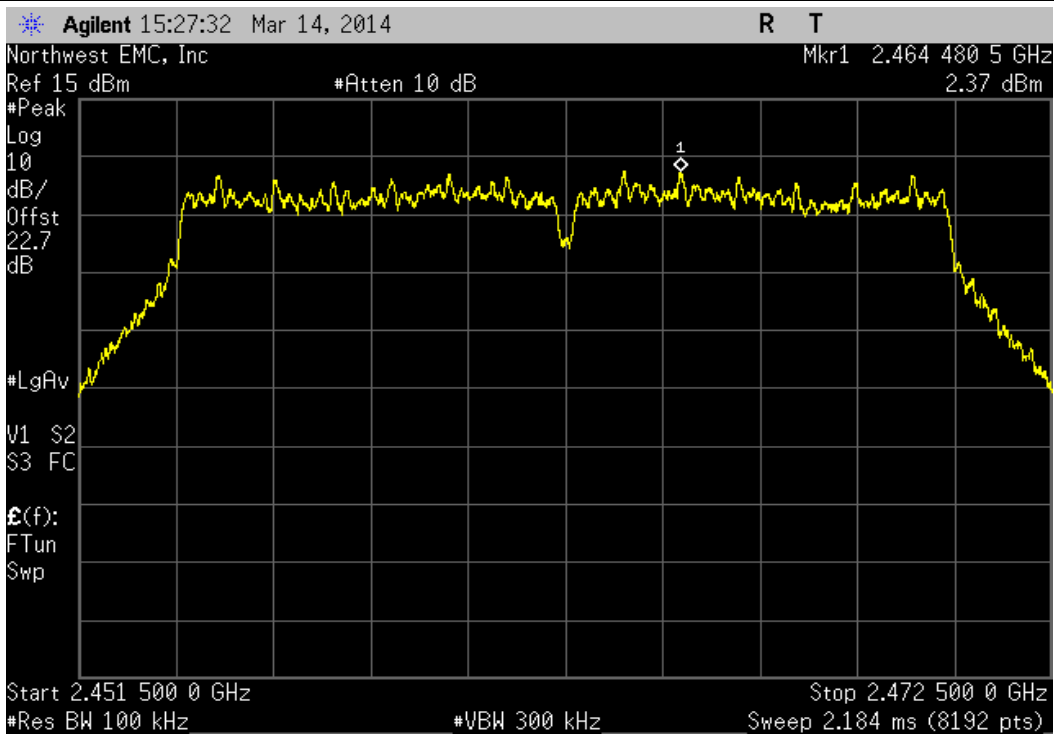
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-57.81 dBc	≤ -20 dBc	Pass



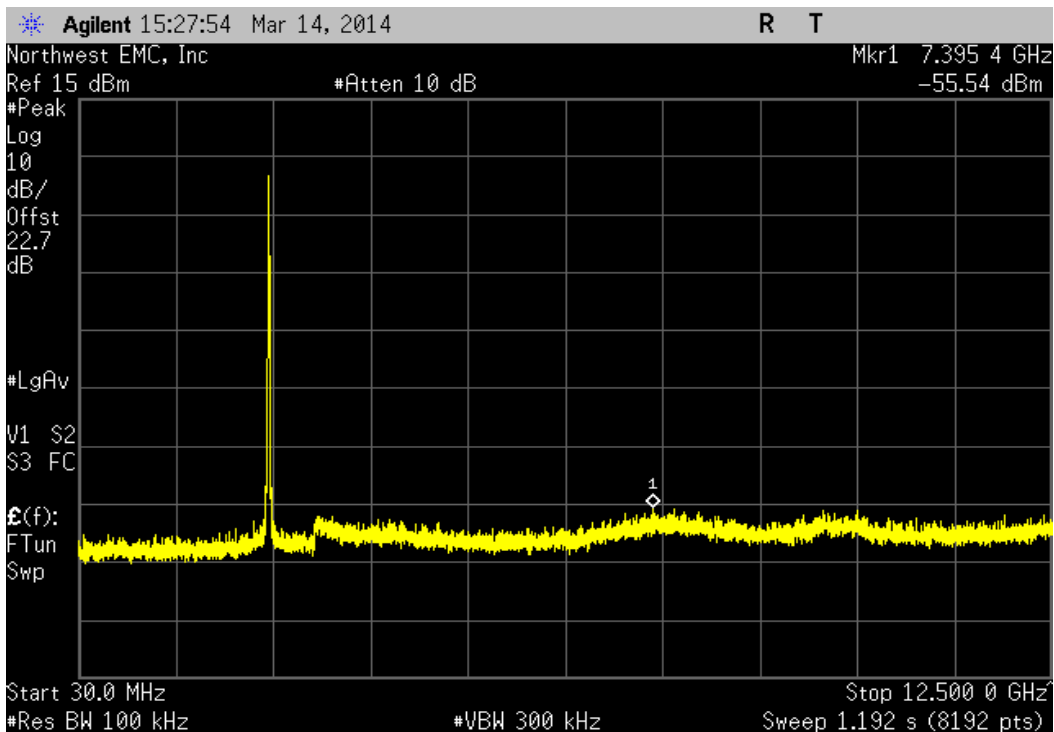
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.41 dBc	≤ -20 dBc	Pass



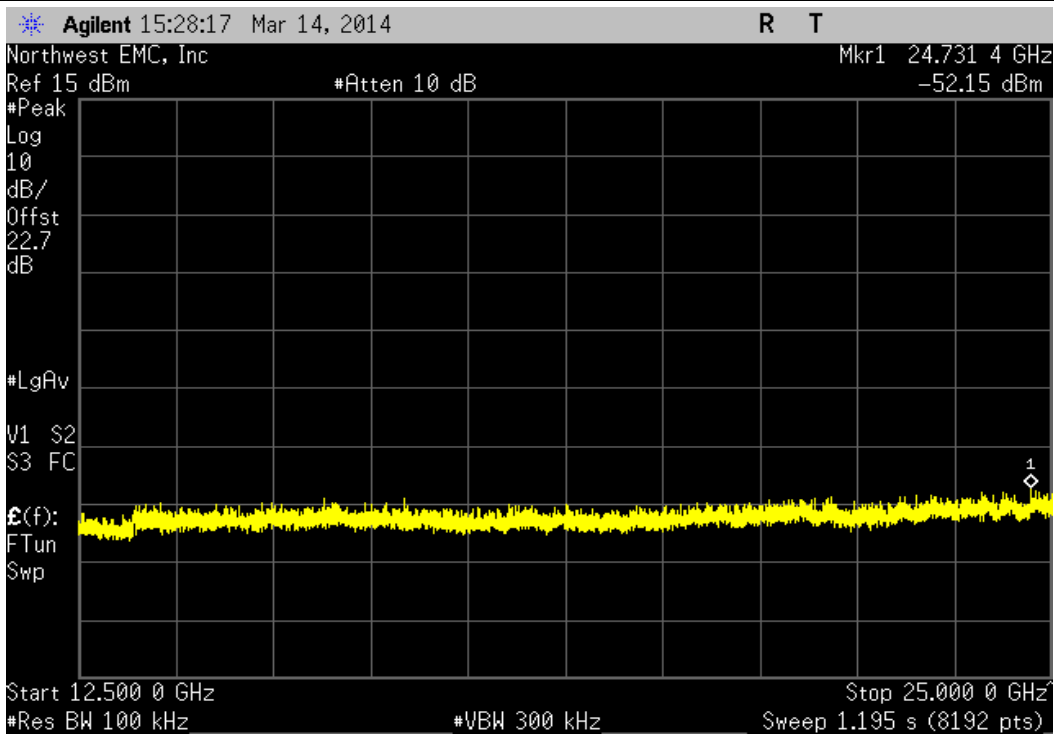
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



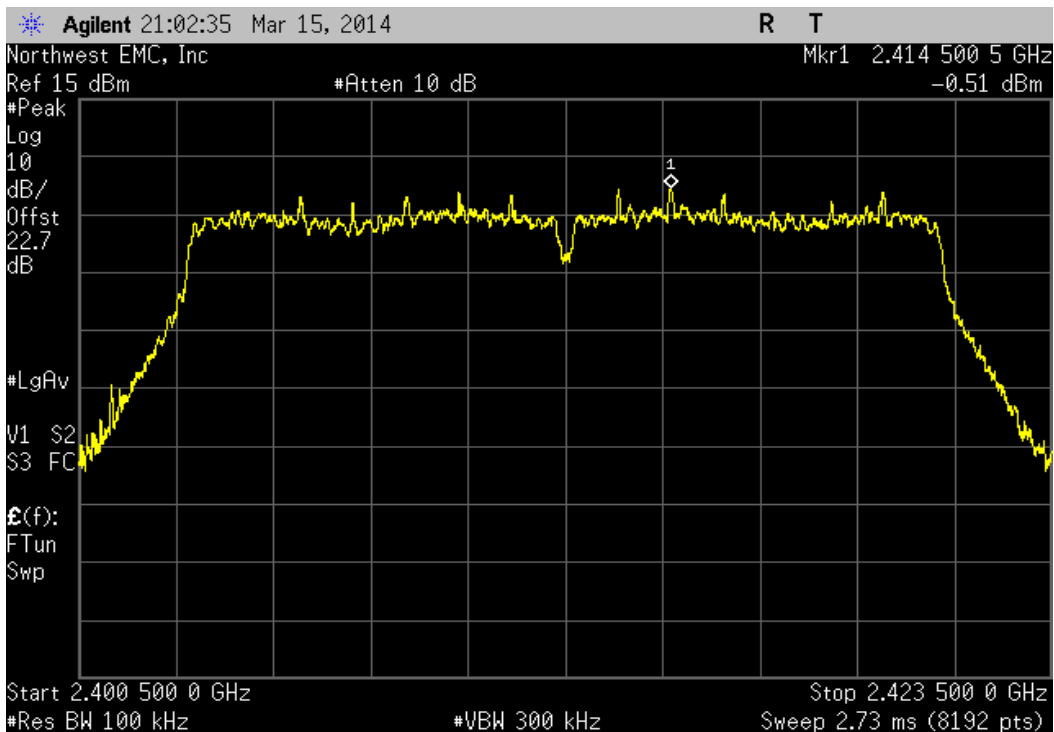
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-57.91 dBc	≤ -20 dBc	Pass		



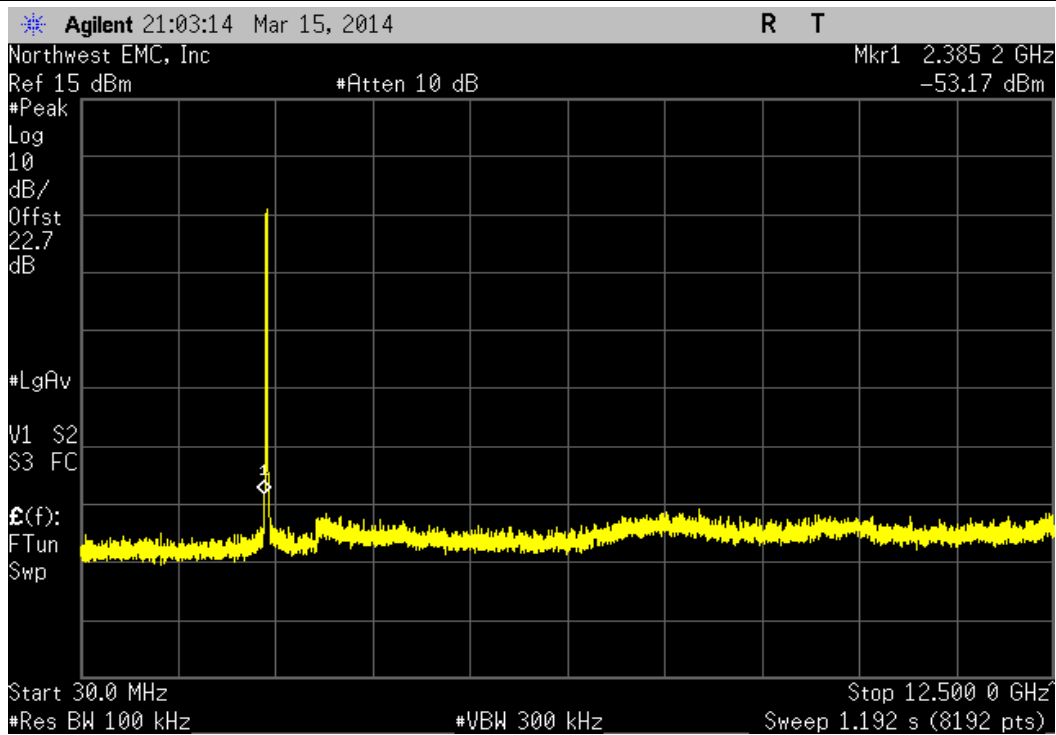
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.52 dBc	≤ -20 dBc	Pass



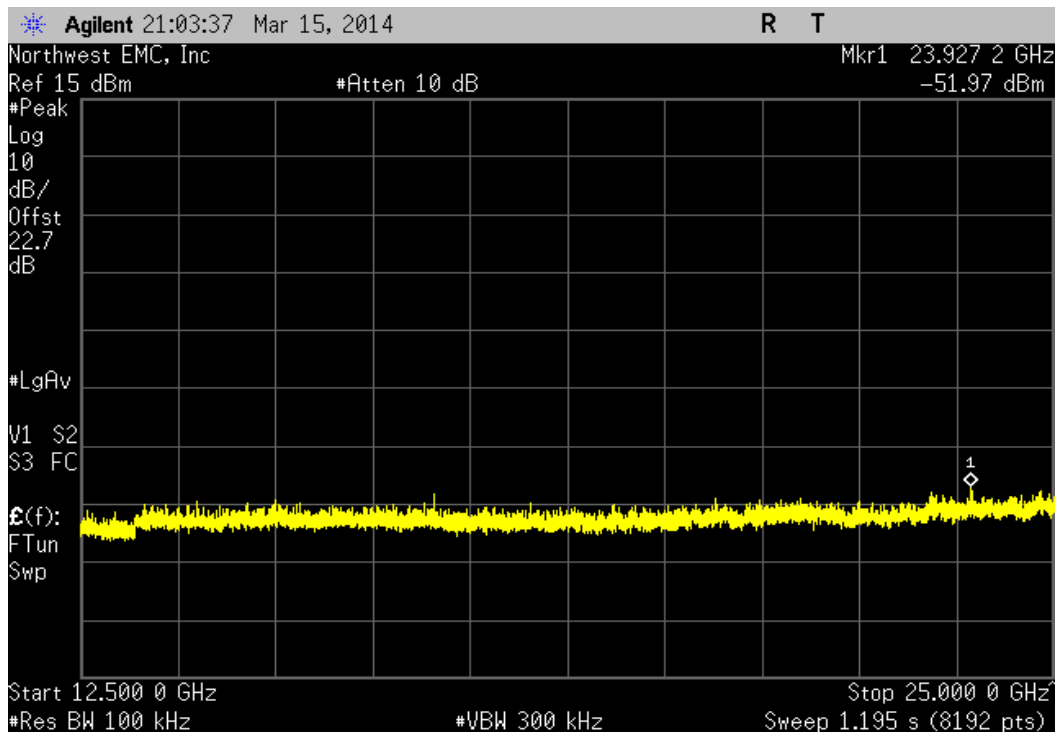
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



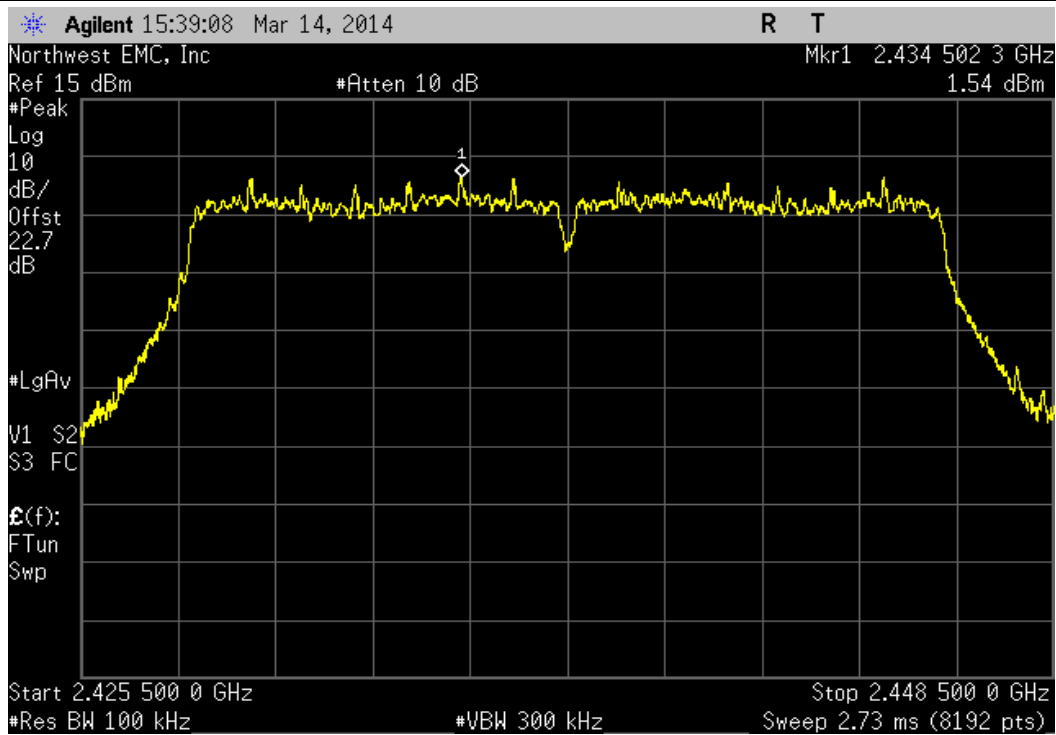
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-52.66 dBc	≤ -20 dBc	Pass



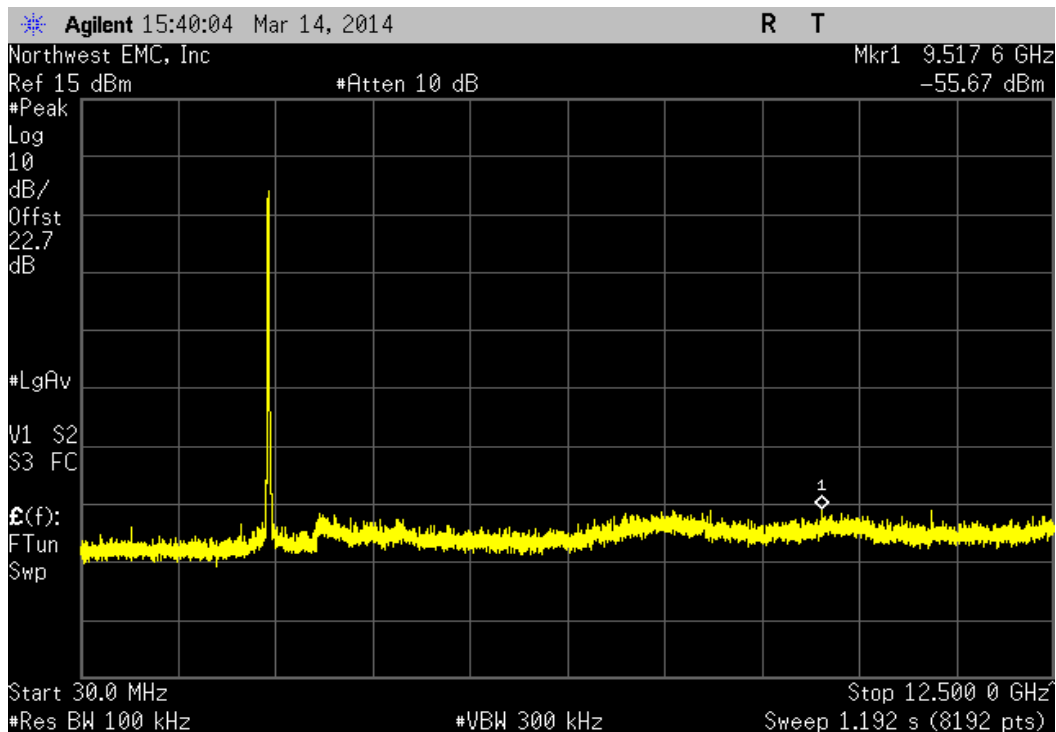
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-51.46 dBc	≤ -20 dBc	Pass



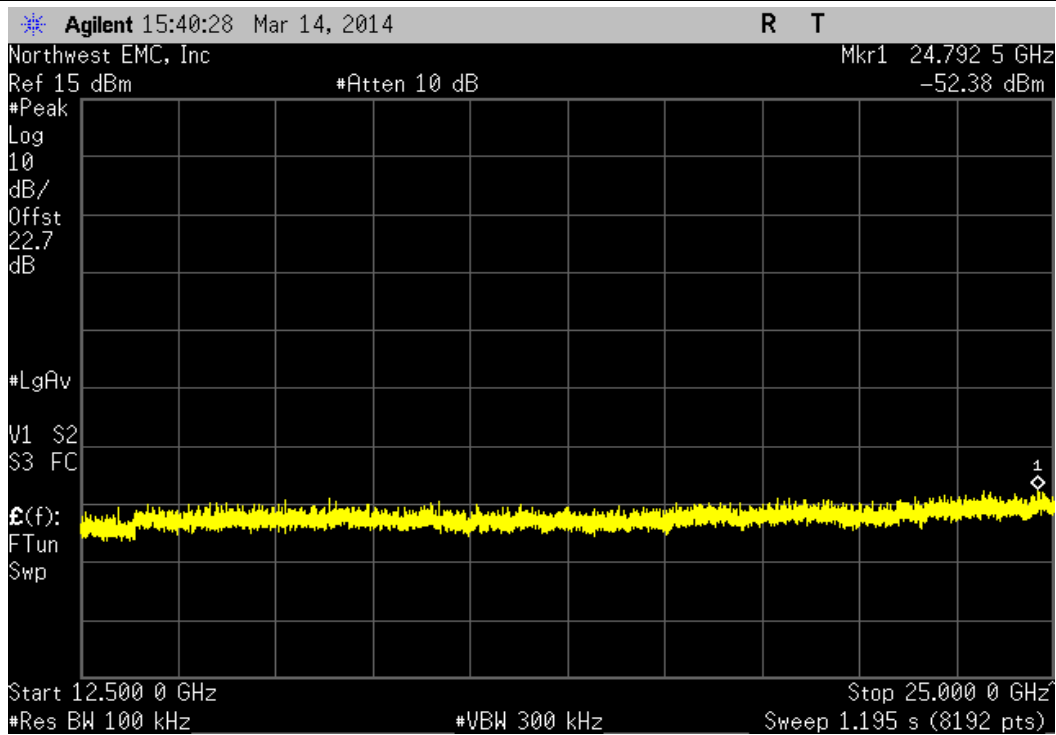
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
	Fundamental	N/A	N/A	N/A		



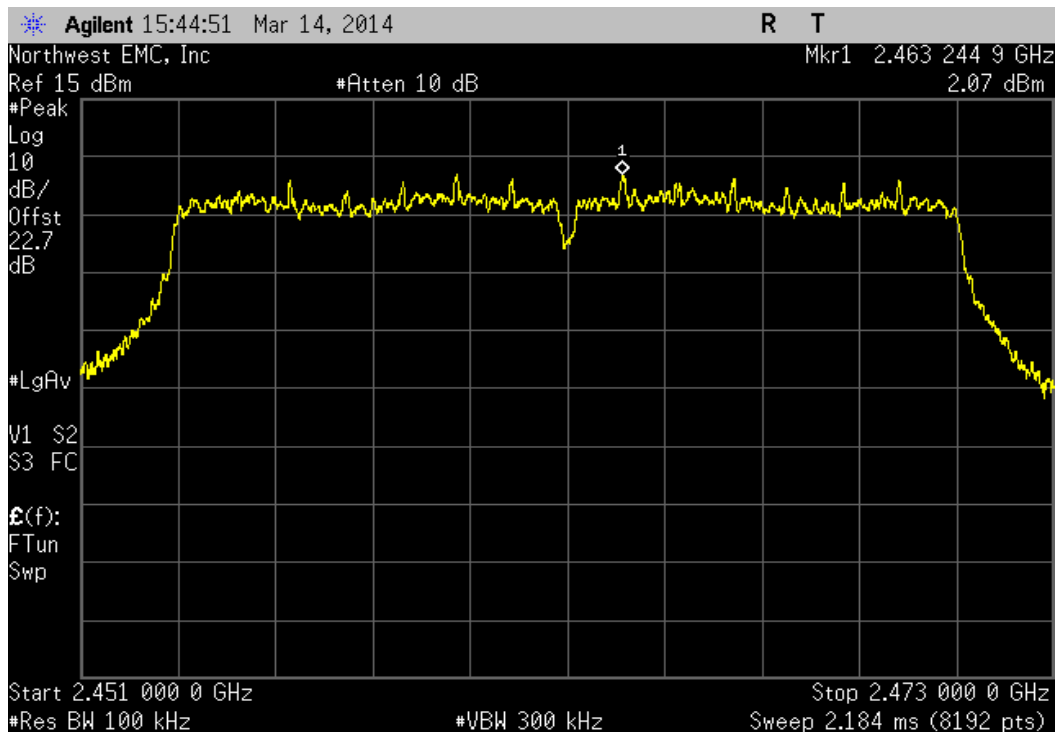
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
	30 MHz - 12.5 GHz	-57.21 dBc	≤ -20 dBc	Pass		



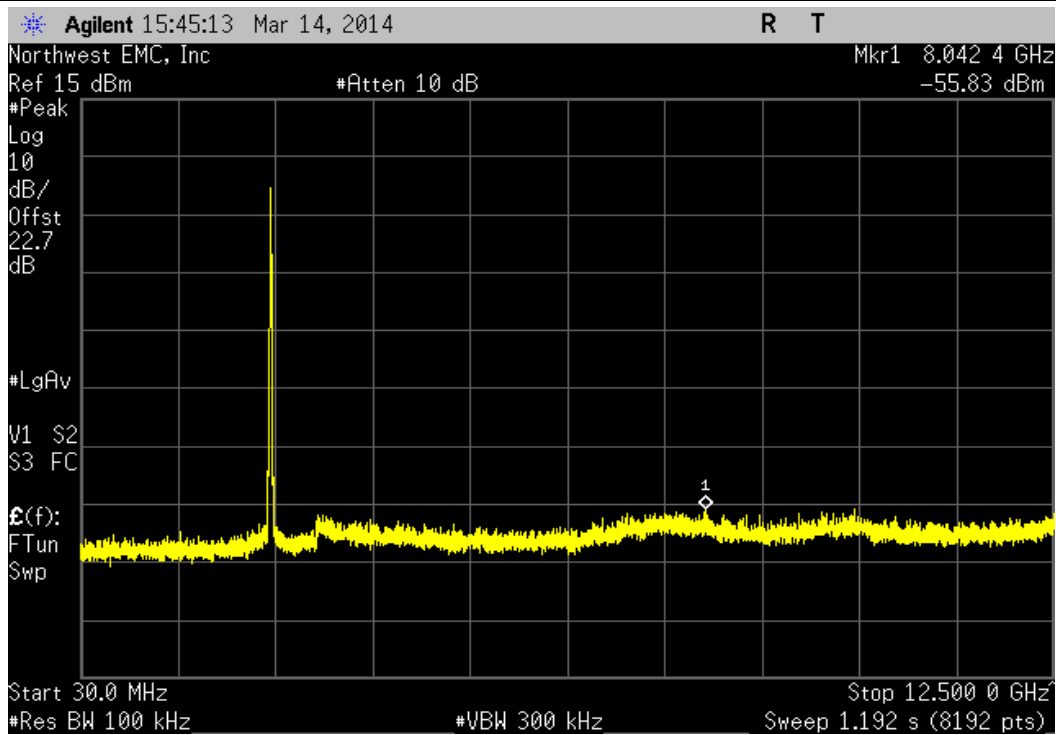
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-53.92 dBc	≤ -20 dBc	Pass



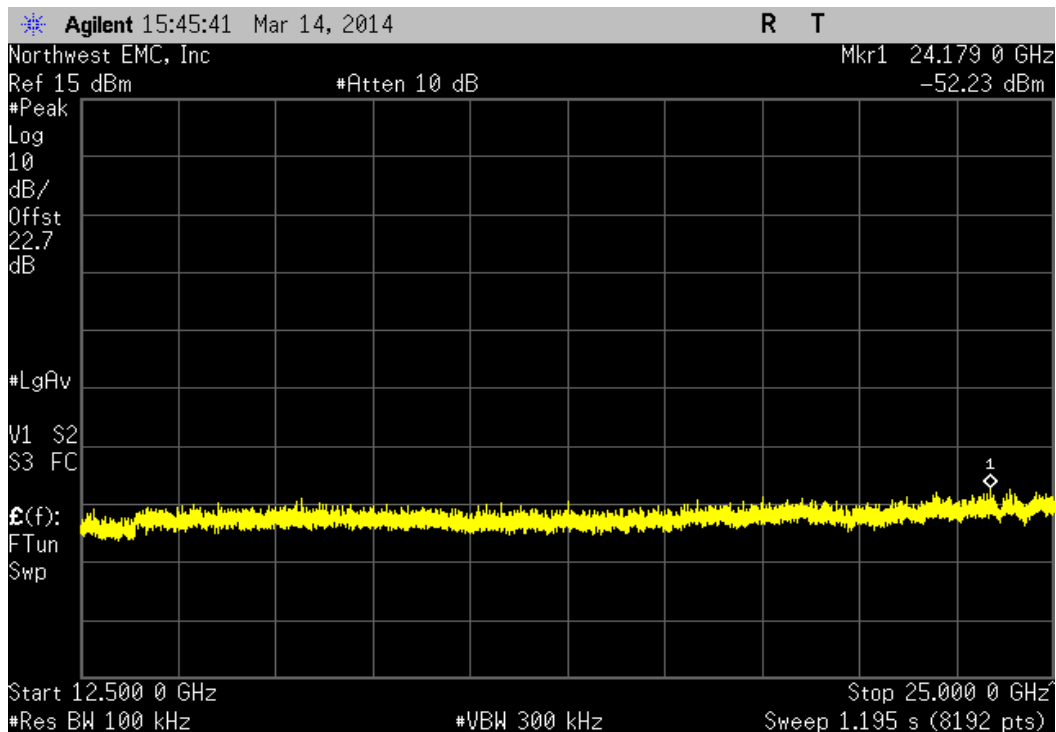
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



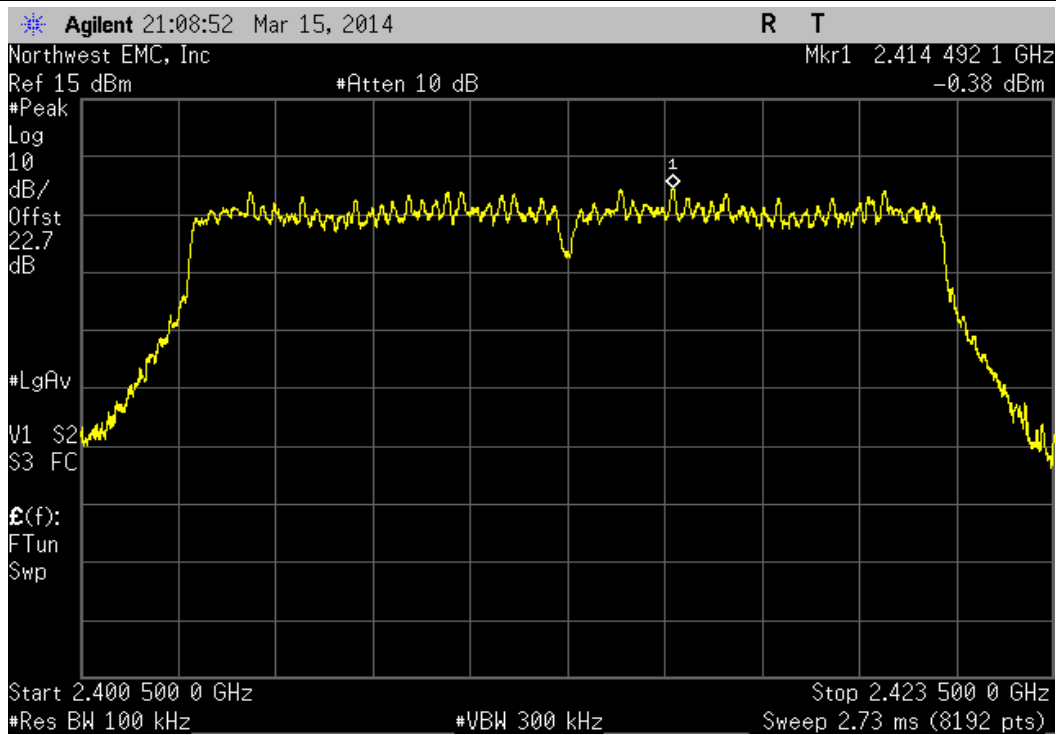
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-57.9 dBc	≤ -20 dBc	Pass



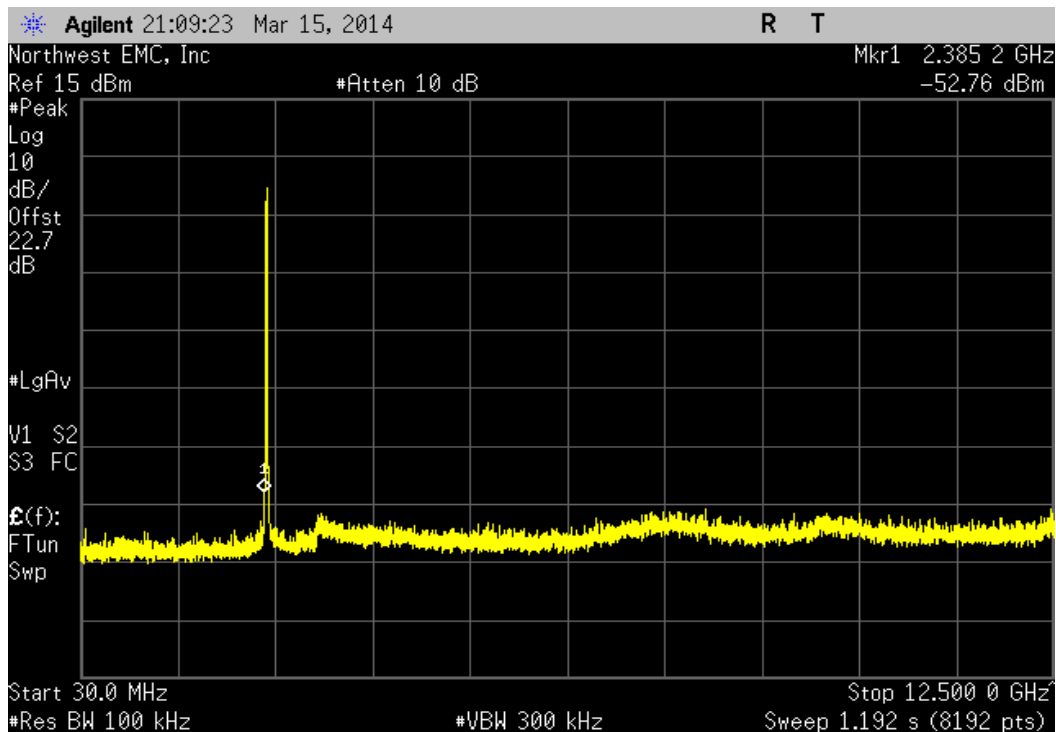
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.3 dBc	≤ -20 dBc	Pass



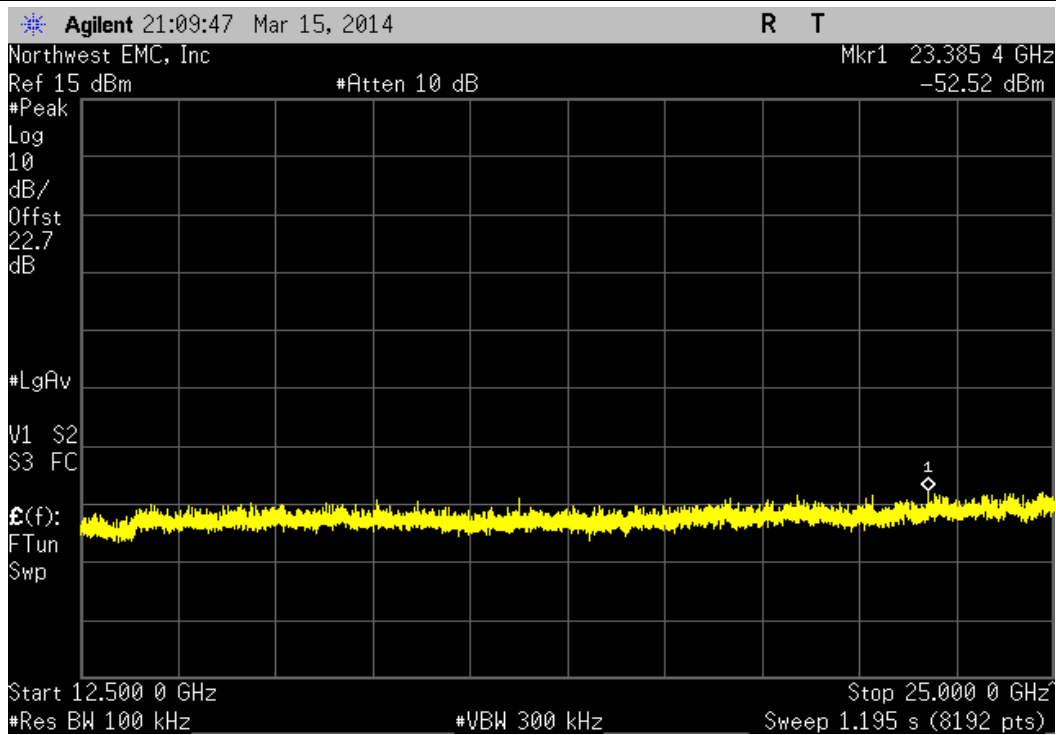
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
	Fundamental	N/A	N/A	N/A		



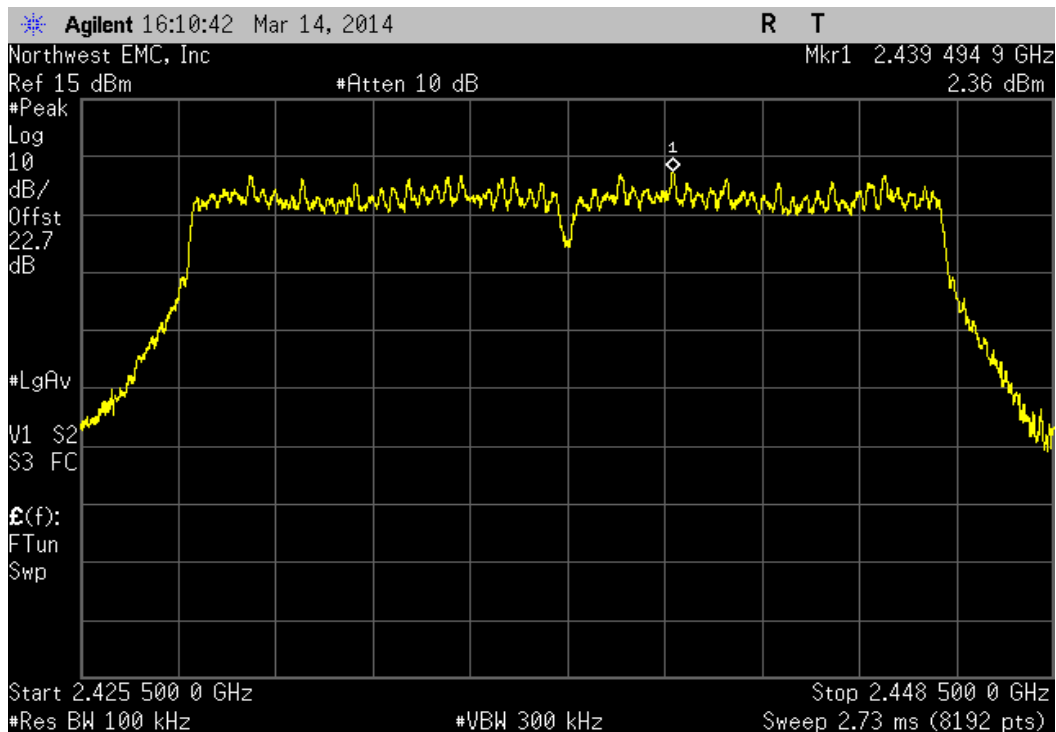
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
	30 MHz - 12.5 GHz	-52.38 dBc	≤ -20 dBc	Pass		



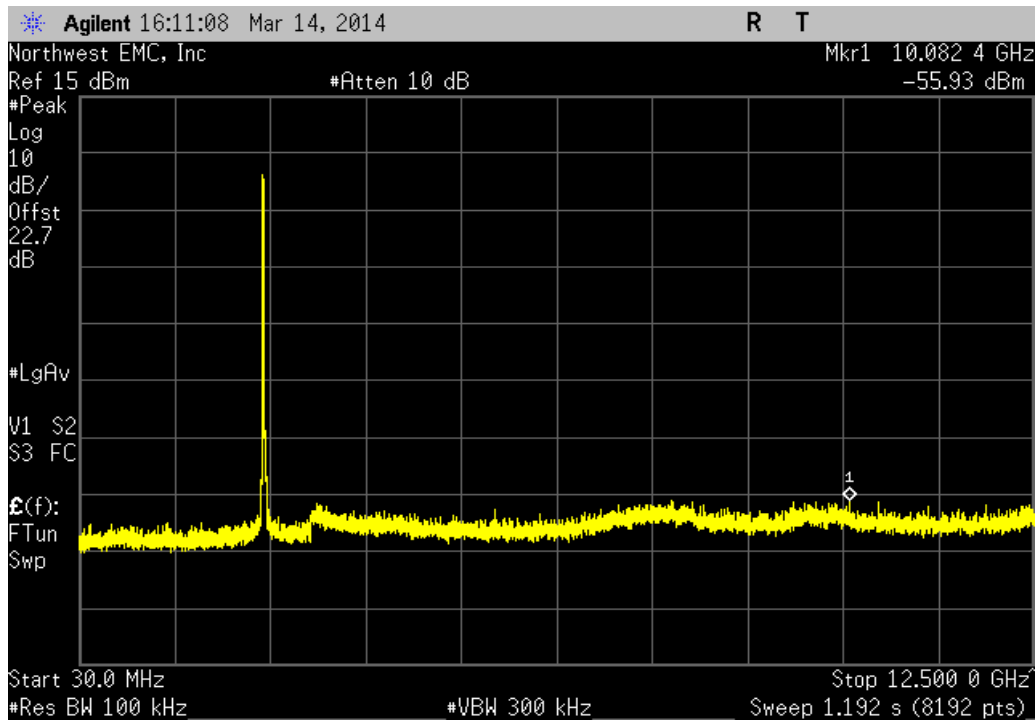
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.14 dBc	≤ -20 dBc	Pass



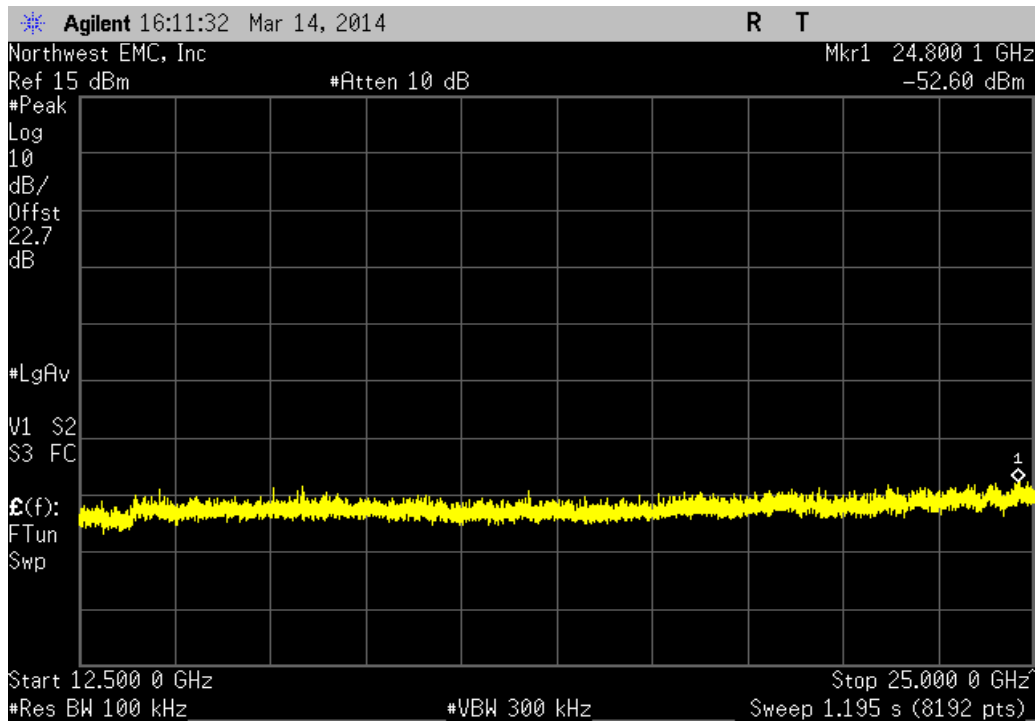
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



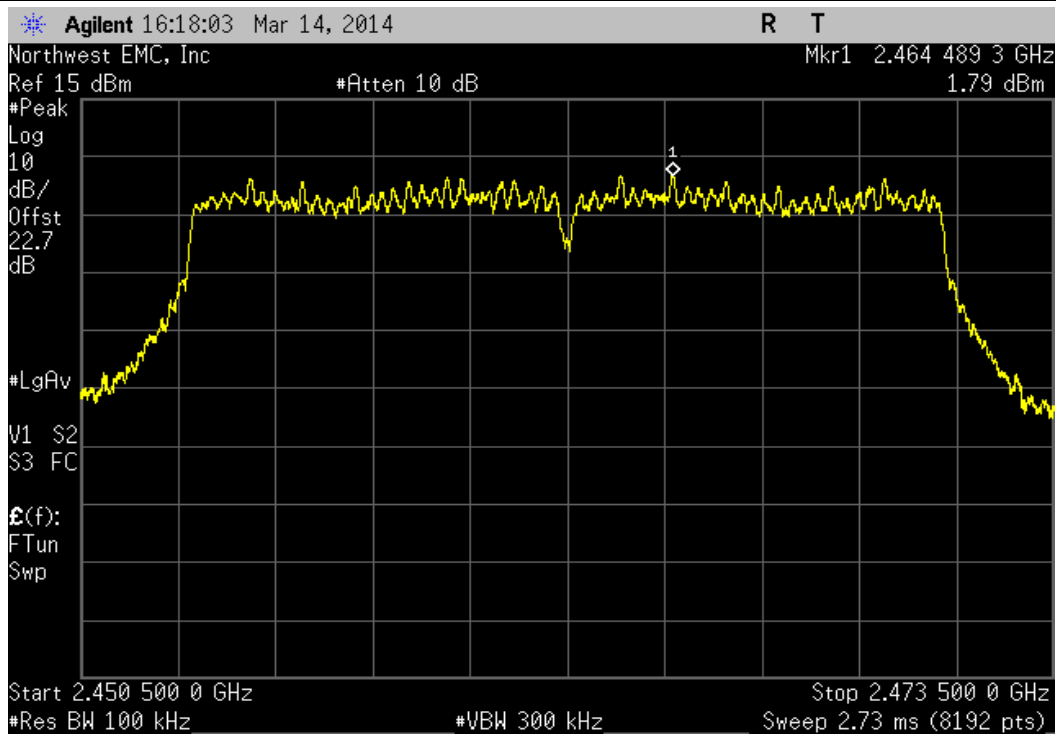
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.29 dBc	≤ -20 dBc	Pass



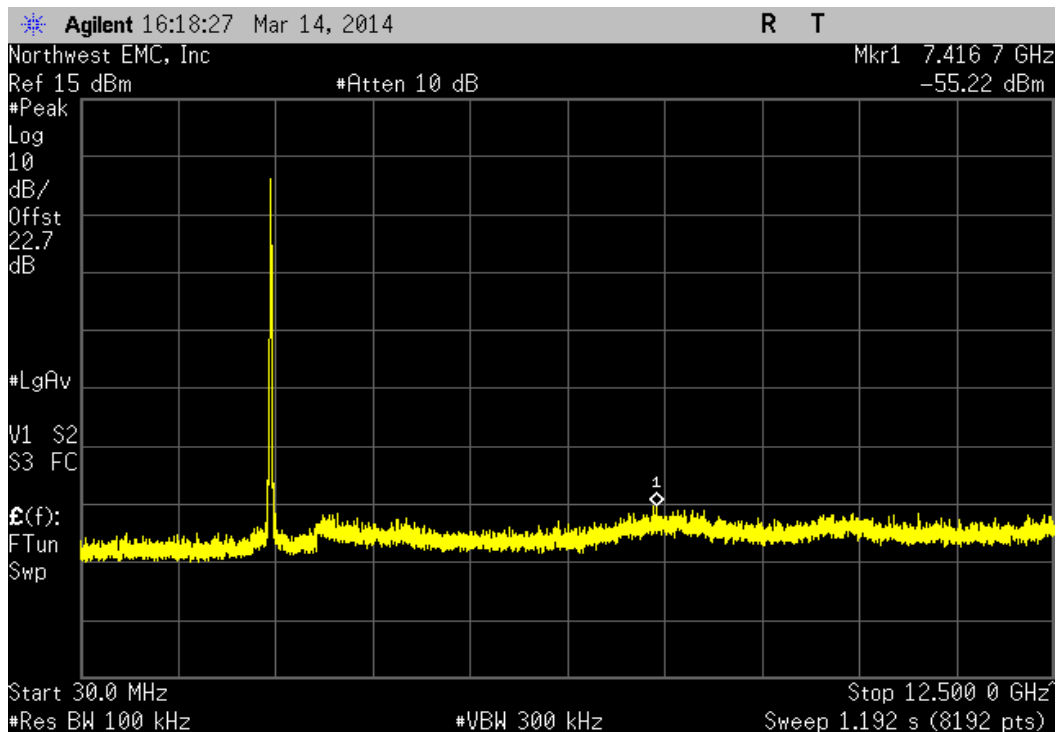
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.96 dBc	≤ -20 dBc	Pass



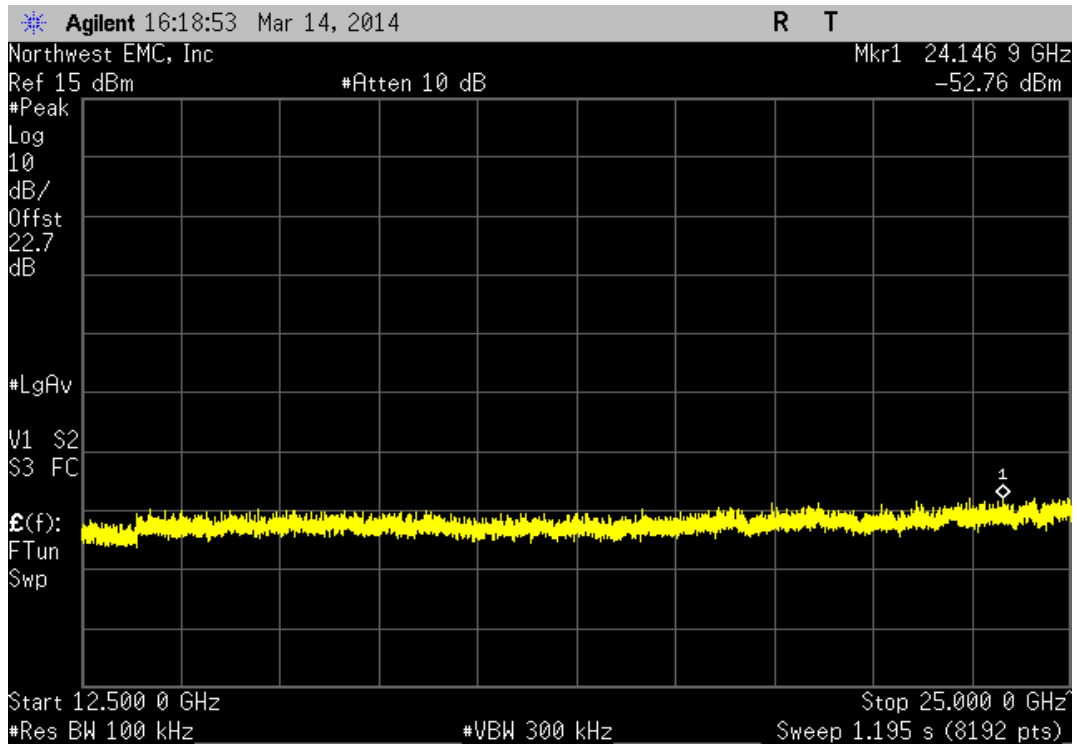
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.01 dBc	≤ -20 dBc	Pass



20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.55 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 (mo.)
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
MXG Analog Signal Generator	Agilent	N5181A	TIG	3/28/2014	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

EUT: Model 1631	Work Order: MCSO1698
Serial Number: 006840341053	Date: 04/16/14
Customer: Microsoft Corporation	Temperature: 22.3°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 1014
Tested by: Jared Ison	Power: 110VAC/60Hz
	Job Site: EV06

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

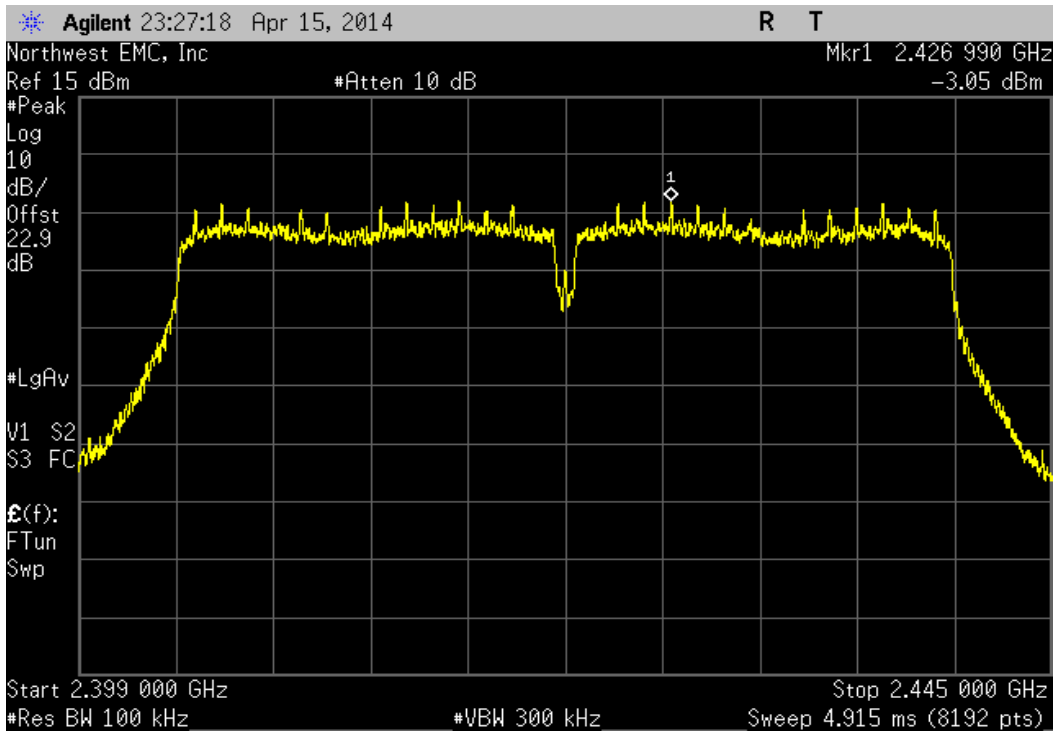
COMMENTS
Modes of operation tested were client provided. Reference power level table for channel power setting.

DEVIATIONS FROM TEST STANDARD
None

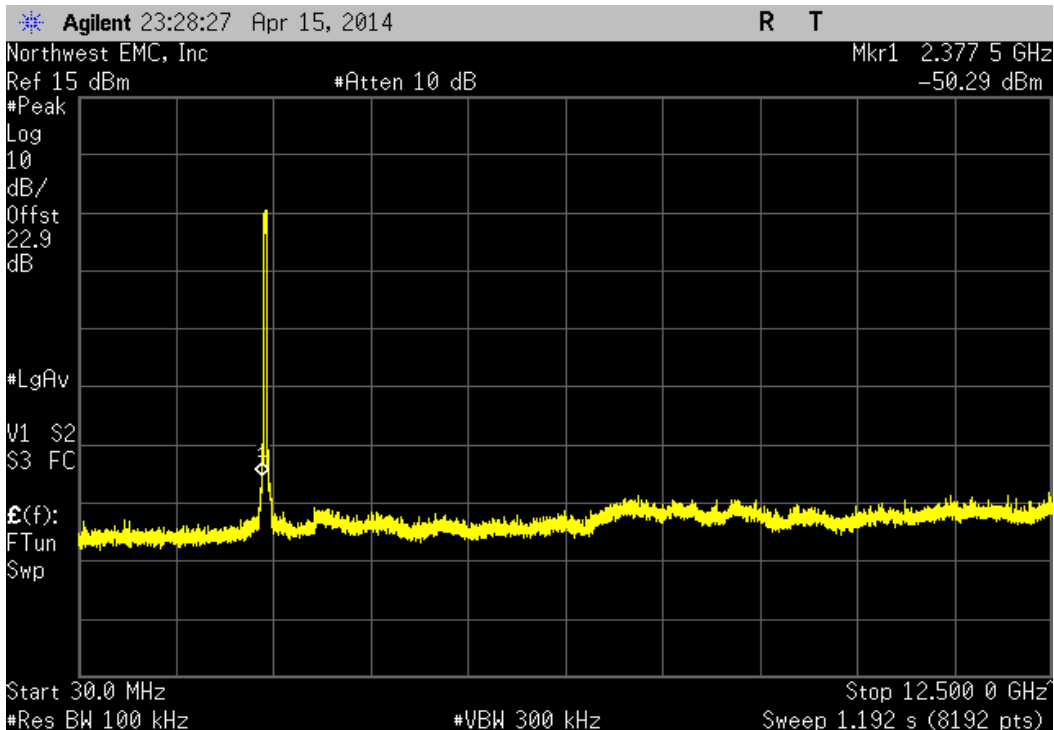
Configuration #	6	Signature 
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40 MHz	Frequency Range	Value	Limit	Result
2400 MHz - 2483.5 MHz Band				
802.11(n) MCS0				
	1/5 Low Channel, 2422 MHz	Fundamental	N/A	N/A
	1/5 Low Channel, 2422 MHz	30 MHz - 12.5 GHz	-47.24 dBc	≤ -20 dBc
	1/5 Low Channel, 2422 MHz	12.5 GHz - 25 GHz	-43.64 dBc	≤ -20 dBc
	4/8 Mid Channel, 2437 MHz	Fundamental	N/A	N/A
	4/8 Mid Channel, 2437 MHz	30 MHz - 12.5 GHz	-50.63 dBc	≤ -20 dBc
	4/8 Mid Channel, 2437 MHz	12.5 GHz - 25 GHz	-44.13 dBc	≤ -20 dBc
	7/11 High Channel, 2452 MHz	Fundamental	N/A	N/A
	7/11 High Channel, 2452 MHz	30 MHz - 12.5 GHz	-50.5 dBc	≤ -20 dBc
	7/11 High Channel, 2452 MHz	12.5 GHz - 25 GHz	-42.79 dBc	≤ -20 dBc
802.11(n) MCS7				
	1/5 Low Channel, 2422 MHz	Fundamental	N/A	N/A
	1/5 Low Channel, 2422 MHz	30 MHz - 12.5 GHz	-50.87 dBc	≤ -20 dBc
	1/5 Low Channel, 2422 MHz	12.5 GHz - 25 GHz	-43.65 dBc	≤ -20 dBc
	4/8 Mid Channel, 2437 MHz	Fundamental	N/A	N/A
	4/8 Mid Channel, 2437 MHz	30 MHz - 12.5 GHz	-50.31 dBc	≤ -20 dBc
	4/8 Mid Channel, 2437 MHz	12.5 GHz - 25 GHz	-42.97 dBc	≤ -20 dBc
	7/11 High Channel, 2452 MHz	Fundamental	N/A	N/A
	7/11 High Channel, 2452 MHz	30 MHz - 12.5 GHz	-49.44 dBc	≤ -20 dBc
	7/11 High Channel, 2452 MHz	12.5 GHz - 25 GHz	-43.16 dBc	≤ -20 dBc

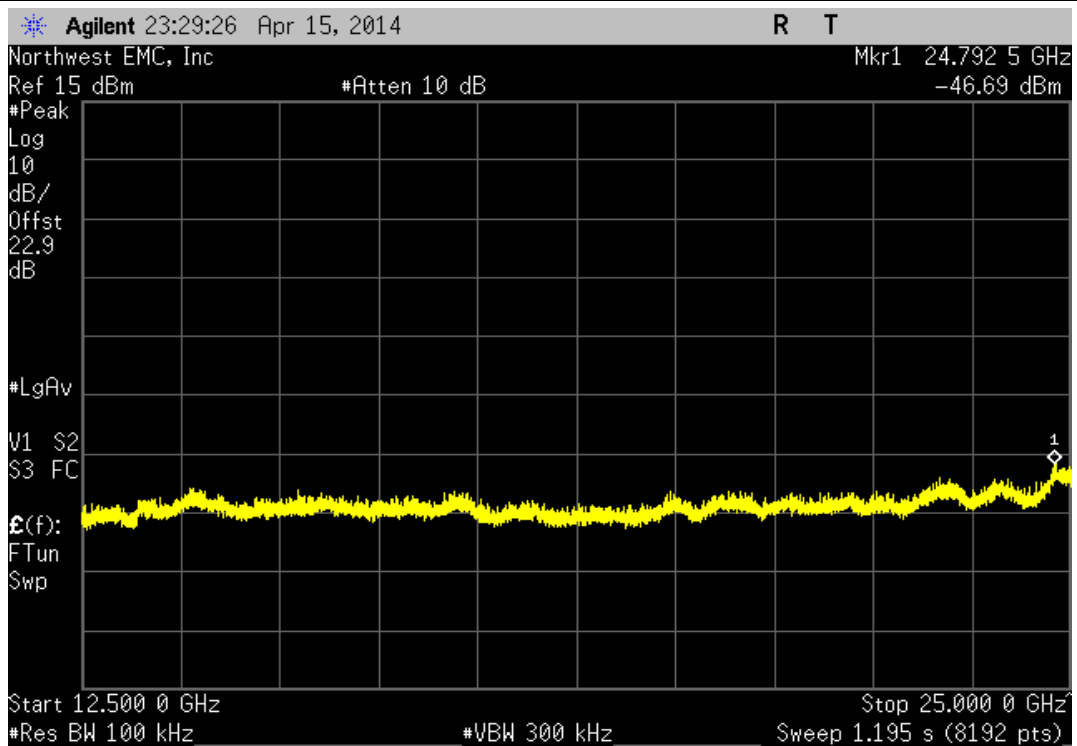
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 1/5 Low Channel, 2422 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



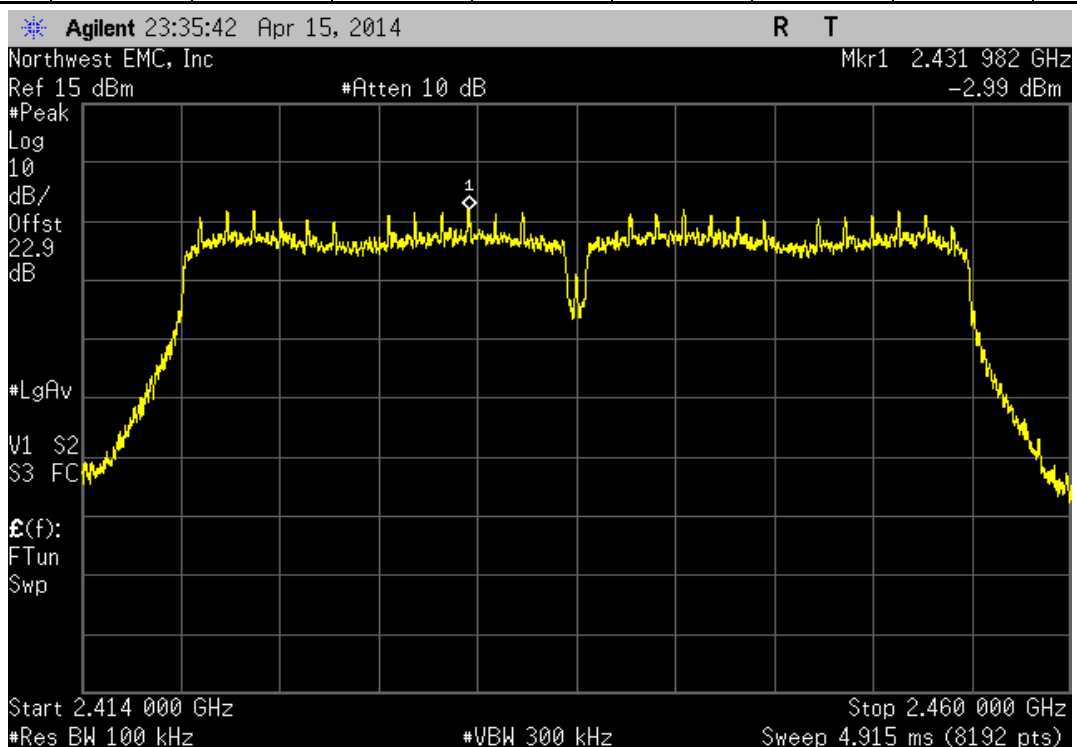
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 1/5 Low Channel, 2422 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-47.24 dBc	≤ -20 dBc	Pass		



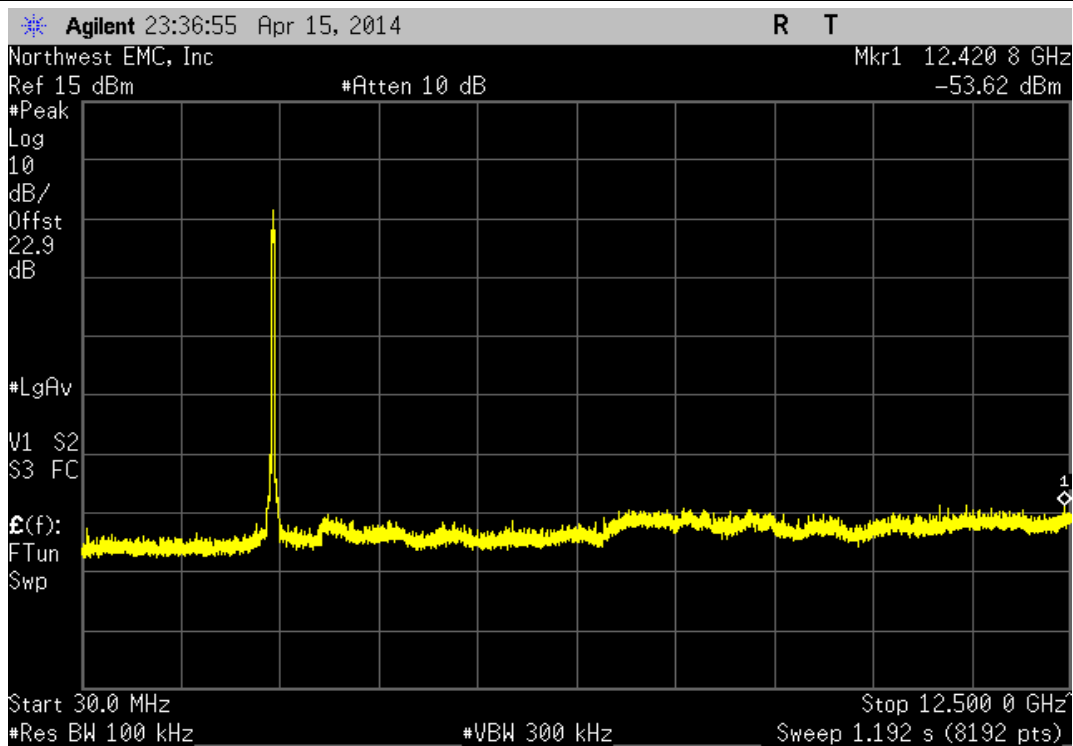
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 1/5 Low Channel, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.64 dBc	≤ -20 dBc	Pass	



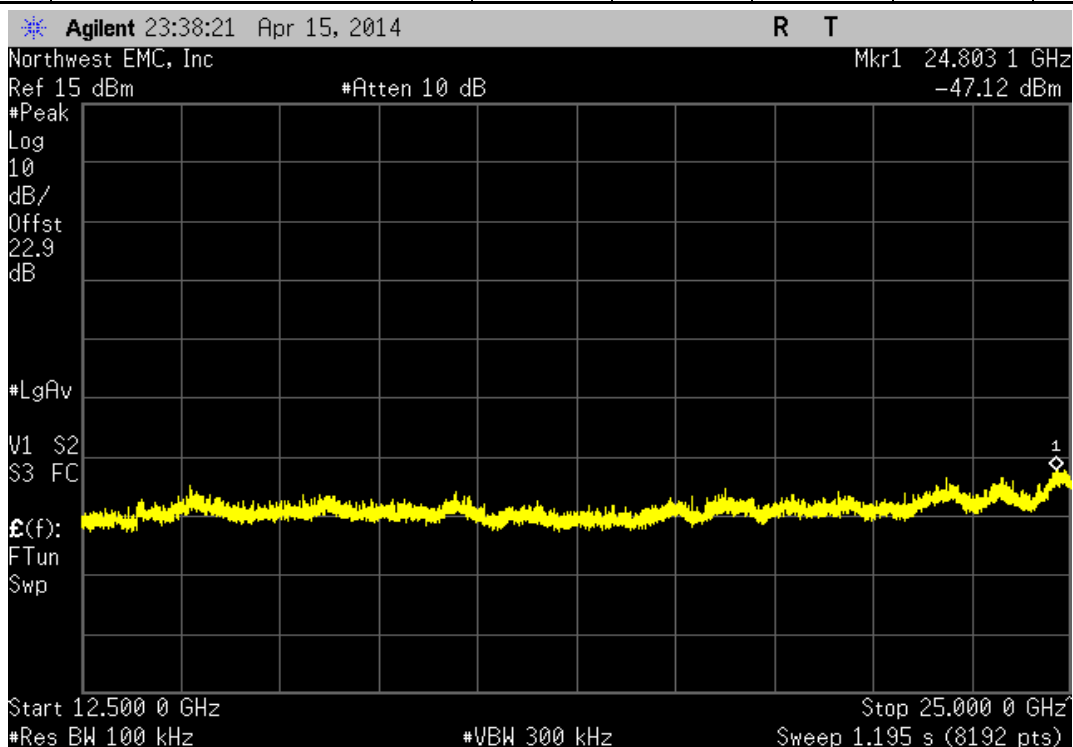
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 4/8 Mid Channel, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



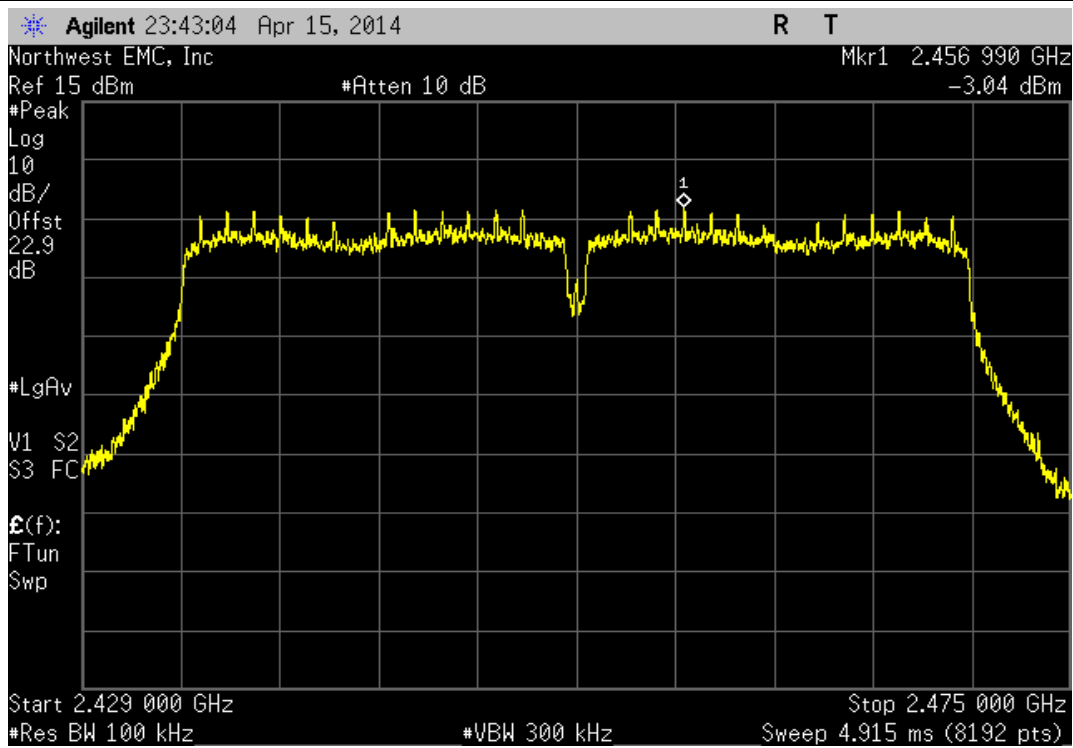
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 4/8 Mid Channel, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.63 dBc	≤ -20 dBc	Pass	



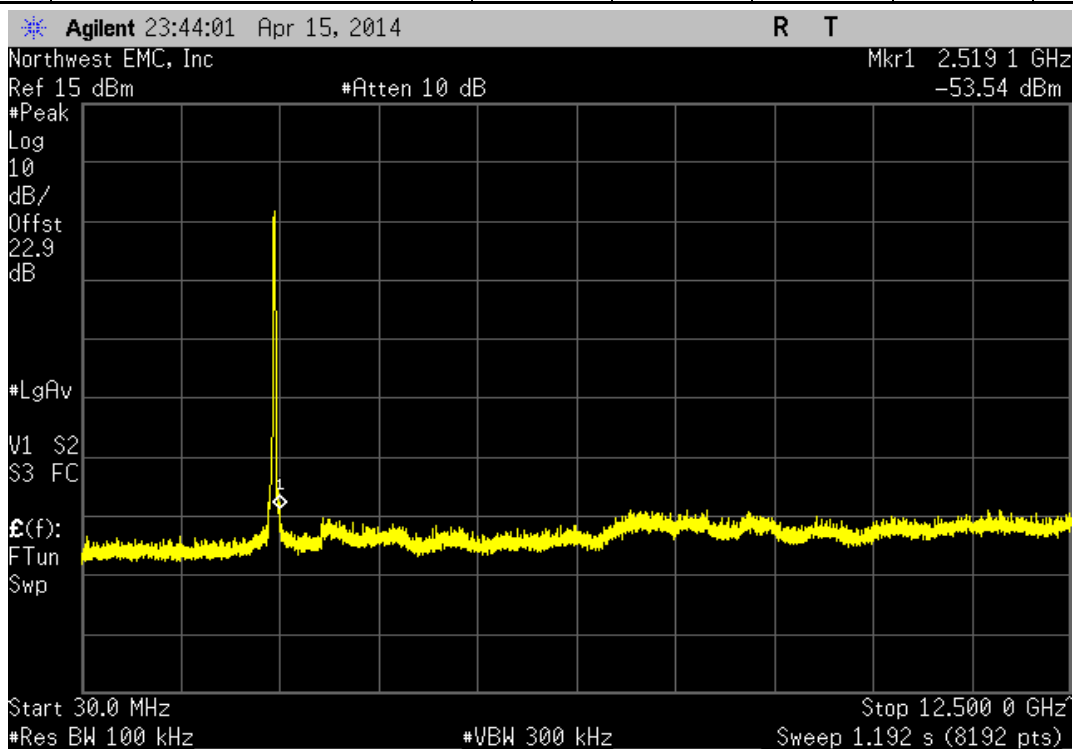
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 4/8 Mid Channel, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-44.13 dBc	≤ -20 dBc	Pass	



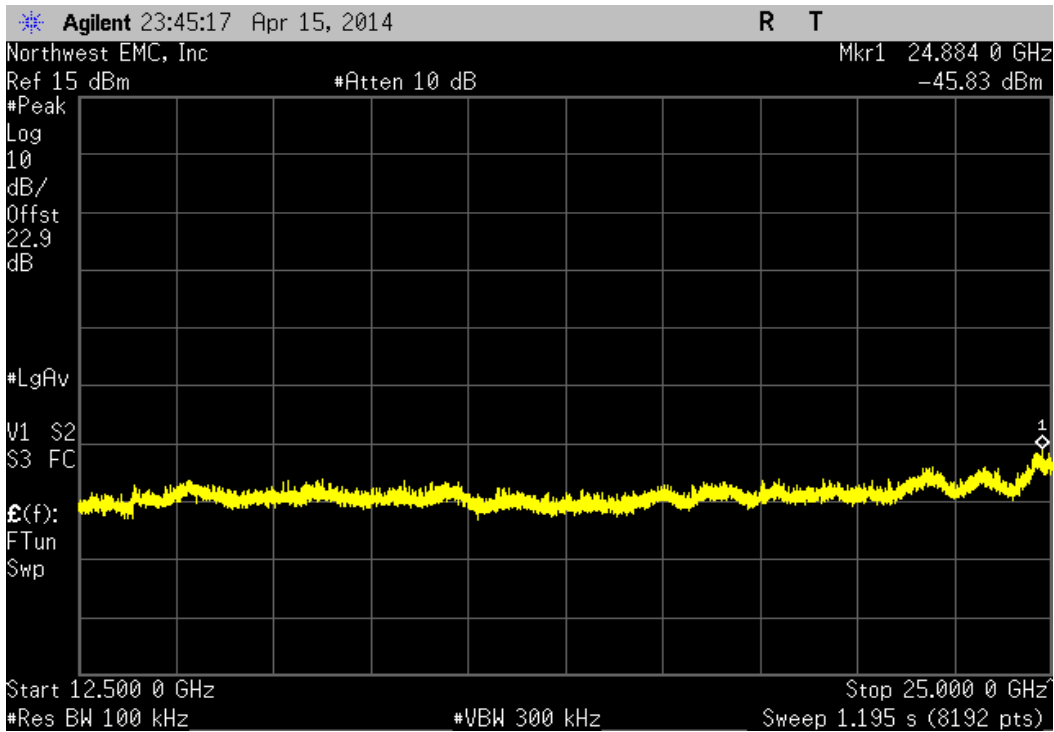
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 7/11 High Channel, 2452 MHz						
Frequency		Value	Limit	Result		
Range						
	Fundamental	N/A	N/A	N/A		



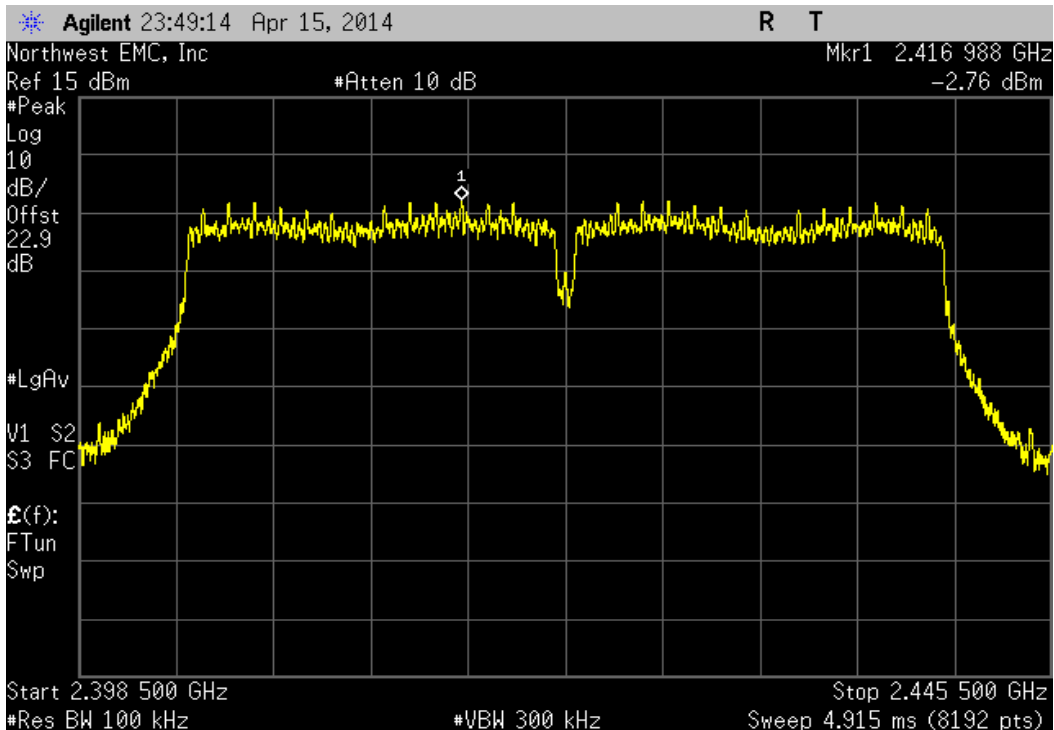
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 7/11 High Channel, 2452 MHz						
Frequency		Value	Limit	Result		
Range						
	30 MHz - 12.5 GHz	-50.5 dBc	≤ -20 dBc	Pass		



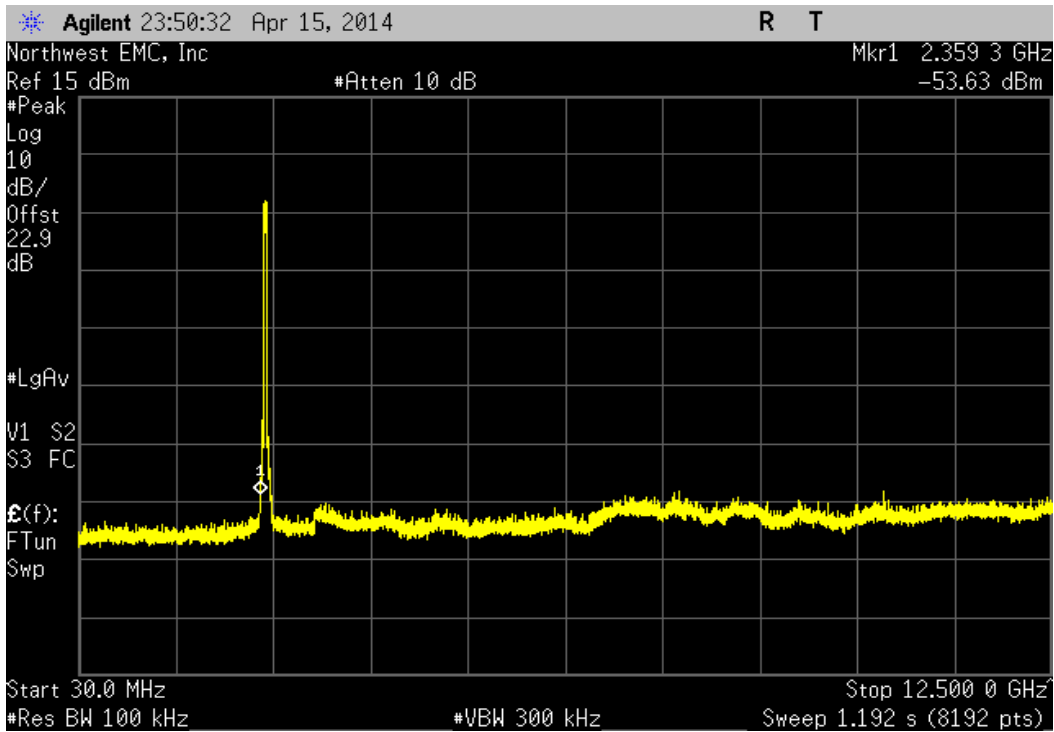
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, 7/11 High Channel, 2452 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-42.79 dBc	≤ -20 dBc	Pass



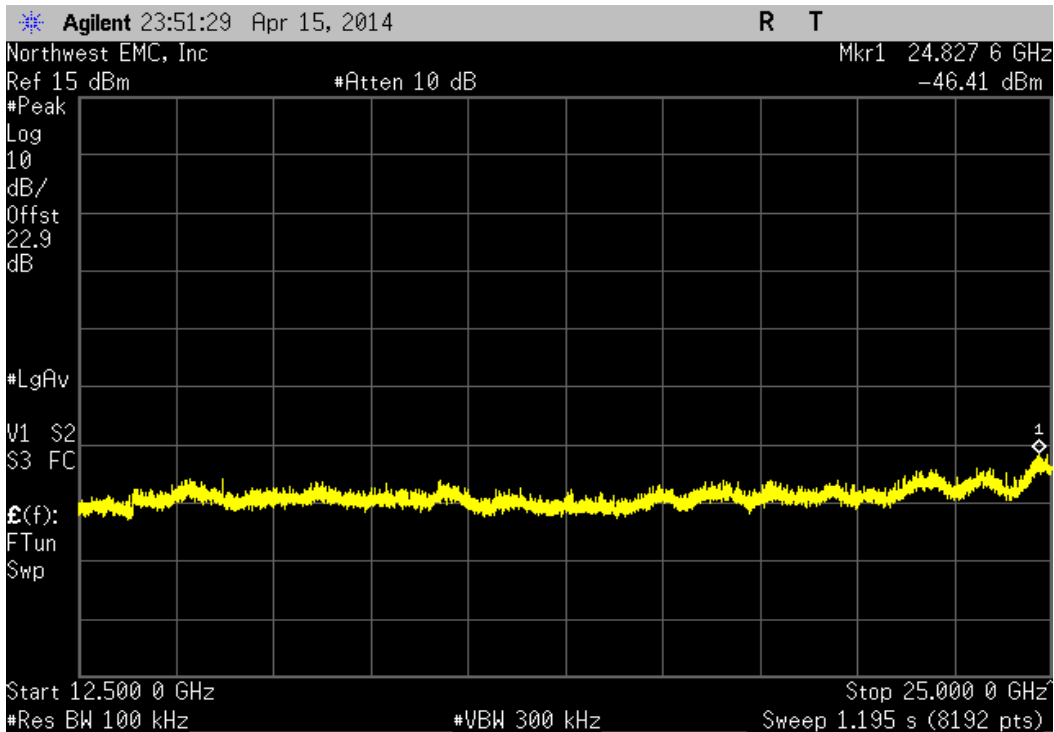
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 1/5 Low Channel, 2422 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



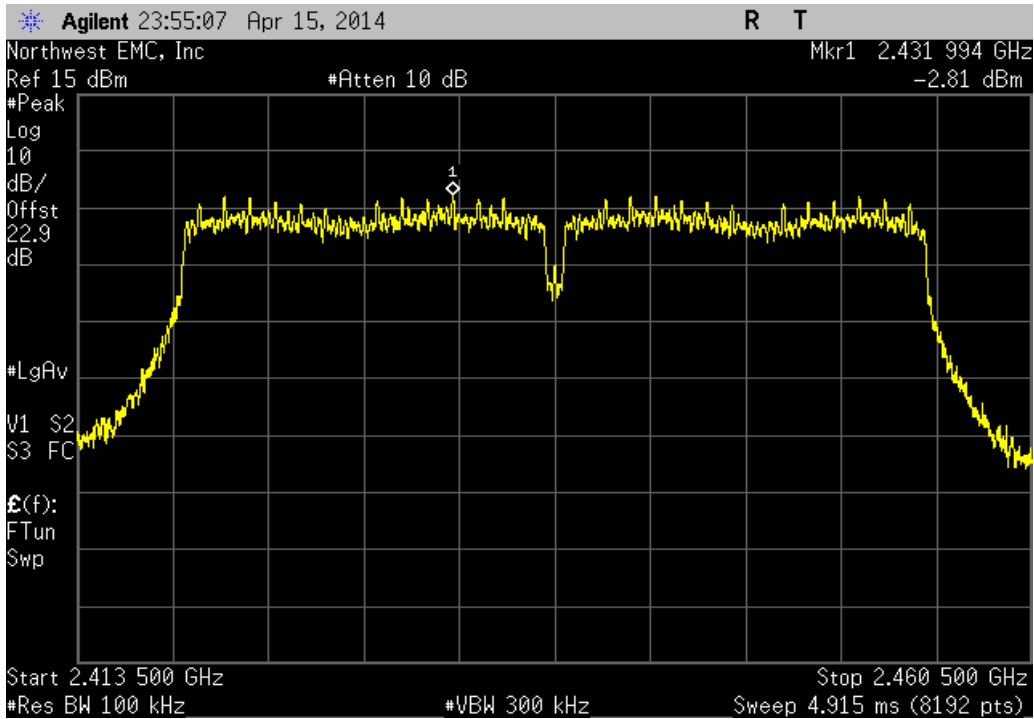
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 1/5 Low Channel, 2422 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-50.87 dBc	≤ -20 dBc	Pass



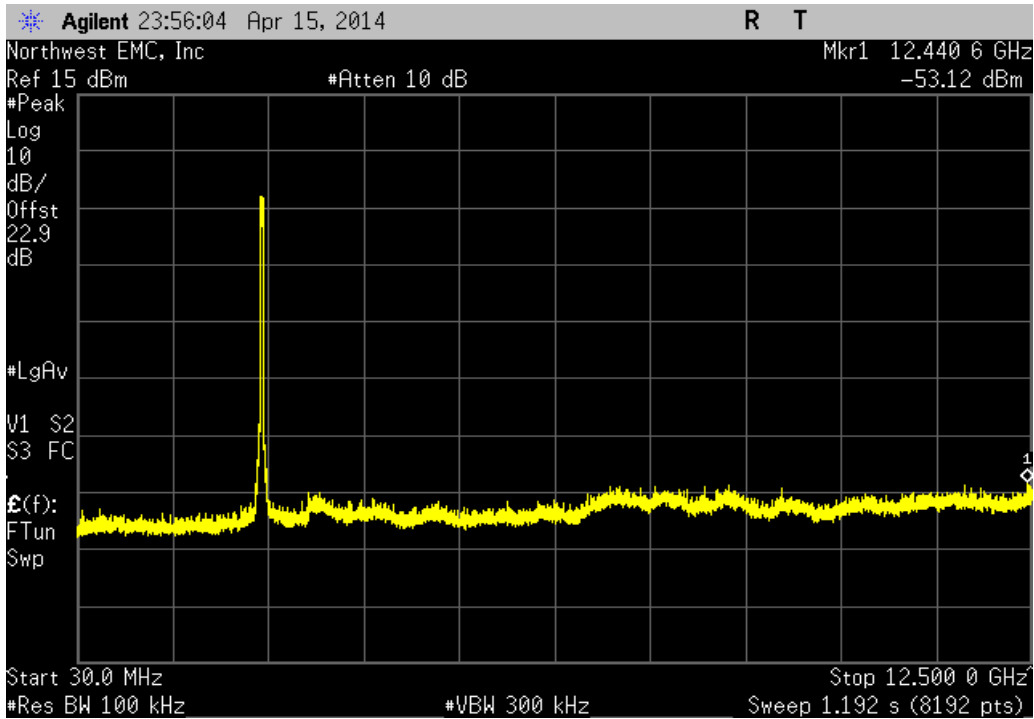
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 1/5 Low Channel, 2422 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.65 dBc	≤ -20 dBc	Pass



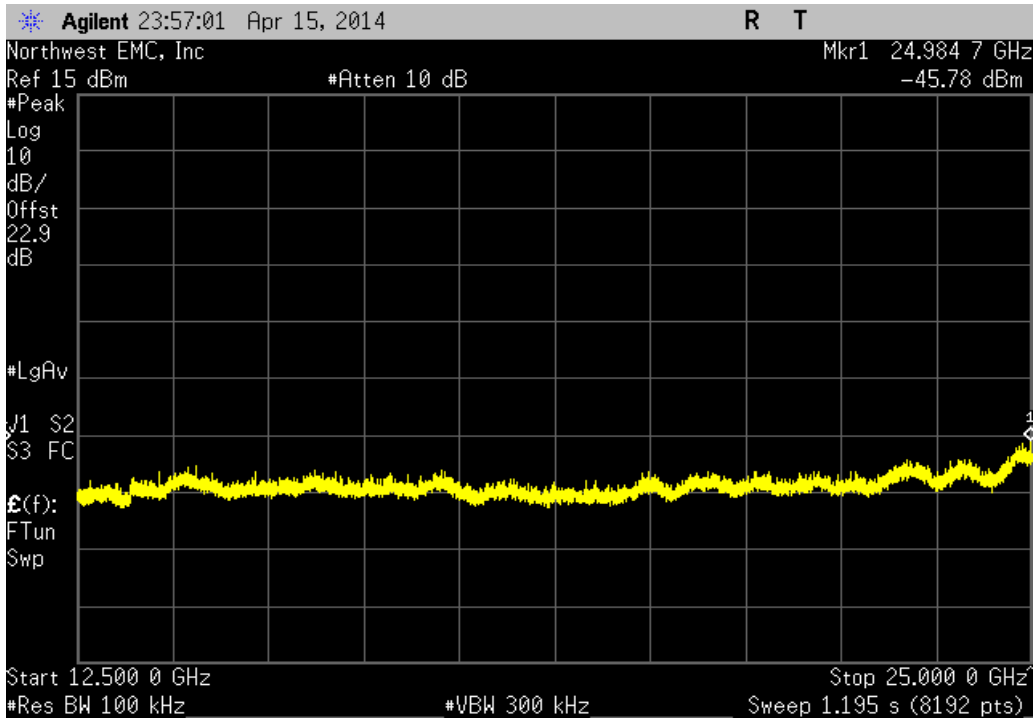
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 4/8 Mid Channel, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



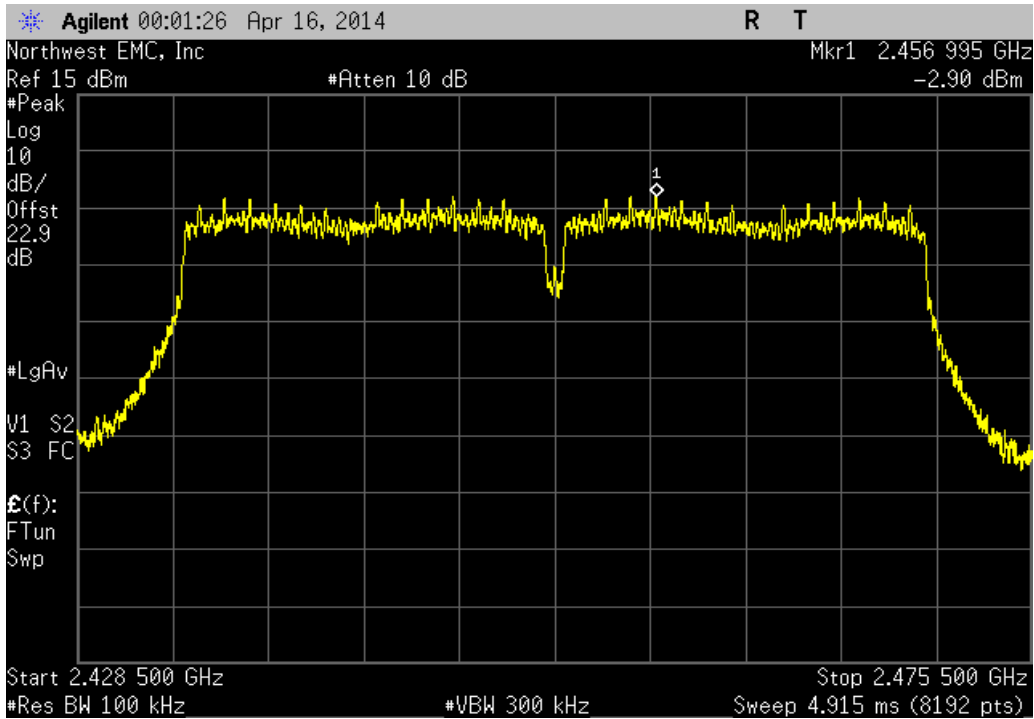
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 4/8 Mid Channel, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.31 dBc	≤ -20 dBc	Pass



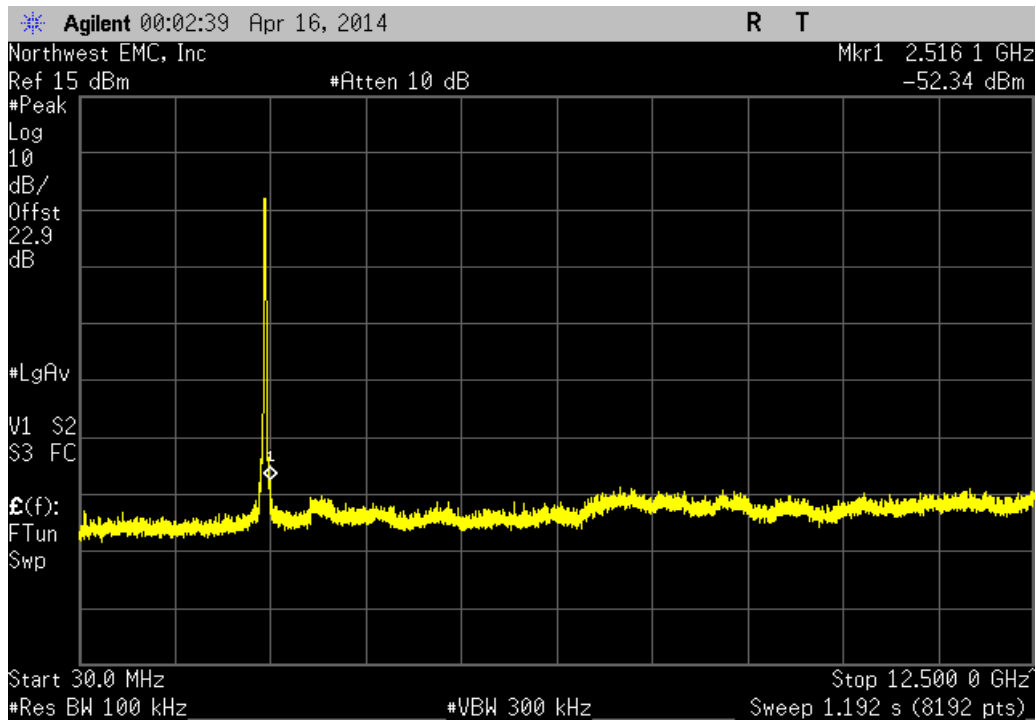
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 4/8 Mid Channel, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-42.97 dBc	≤ -20 dBc	Pass



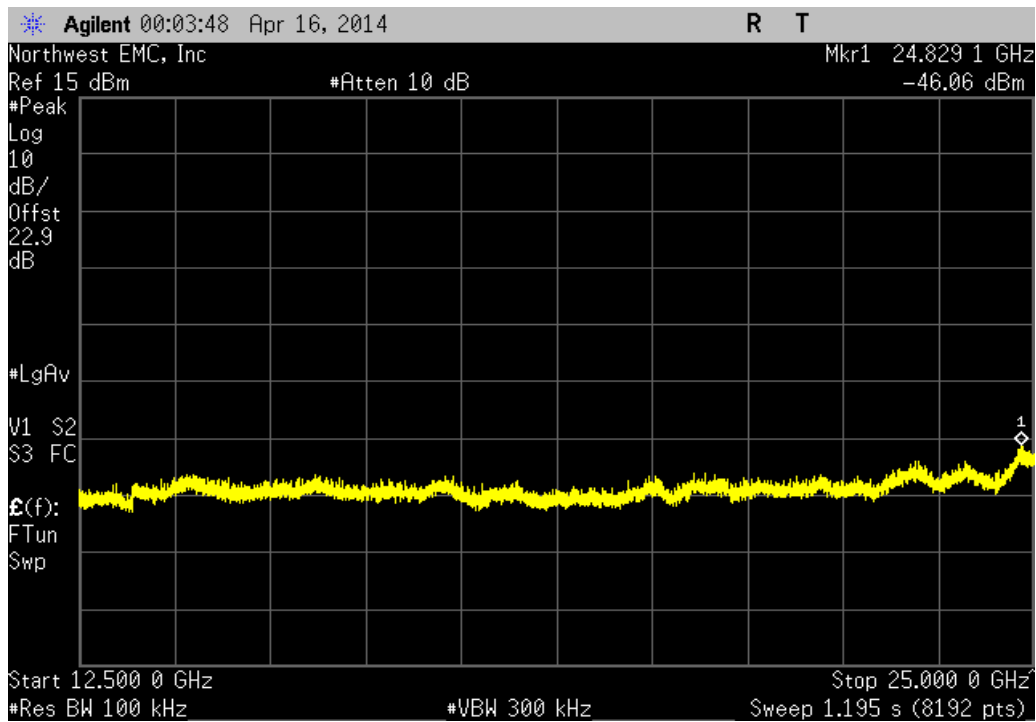
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 7/11 High Channel, 2452 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 7/11 High Channel, 2452 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-49.44 dBc	≤ -20 dBc	Pass



40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, 7/11 High Channel, 2452 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.16 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 (mo.)
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Gigatronics	8651A	SPM	11/26/2013	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
MXG Analog Signal Generator	Agilent	N5181A	TIG	NCR	0
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

EUT: Model 1631	Work Order: MCSO1698
Serial Number: 041148340753	Date: 03/22/14
Customer: Microsoft Corporation	Temperature: 21.5°C
Attendees: None	Humidity: 29%
Project: 1631	Barometric Pres.: 1007
Tested by: Brandon Hobbs, Jared Ison	Power: 110VAC/60Hz
	Job Site: EV06

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

COMMENTS
Modes of operation tested were client provided.

DEVIATIONS FROM TEST STANDARD
None

Configuration #	1	Signature 
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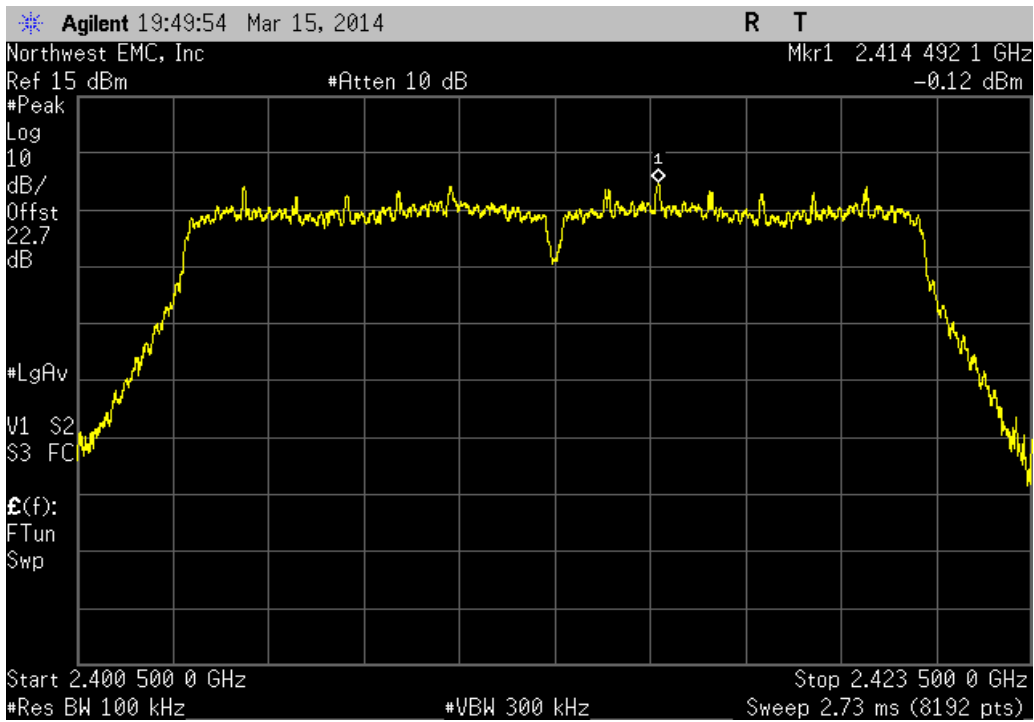
Chain A	Frequency Range	Value	Limit	Result
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20 MHz	2400 MHz - 2483.5 MHz Band			
	802.11(n) MCS8			
	Low Channel 1, 2412 MHz	Fundamental	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-55.88 dBc	≤ -20 dBc
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.29 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-56.98 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-53.52 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	Fundamental	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.6 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.47 dBc	≤ -20 dBc
	802.11(n) MCS15			
	Low Channel 1, 2412 MHz	Fundamental	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-54.96 dBc	≤ -20 dBc
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-51.63 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.14 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.6 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	Fundamental	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-58.15 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.87 dBc	≤ -20 dBc

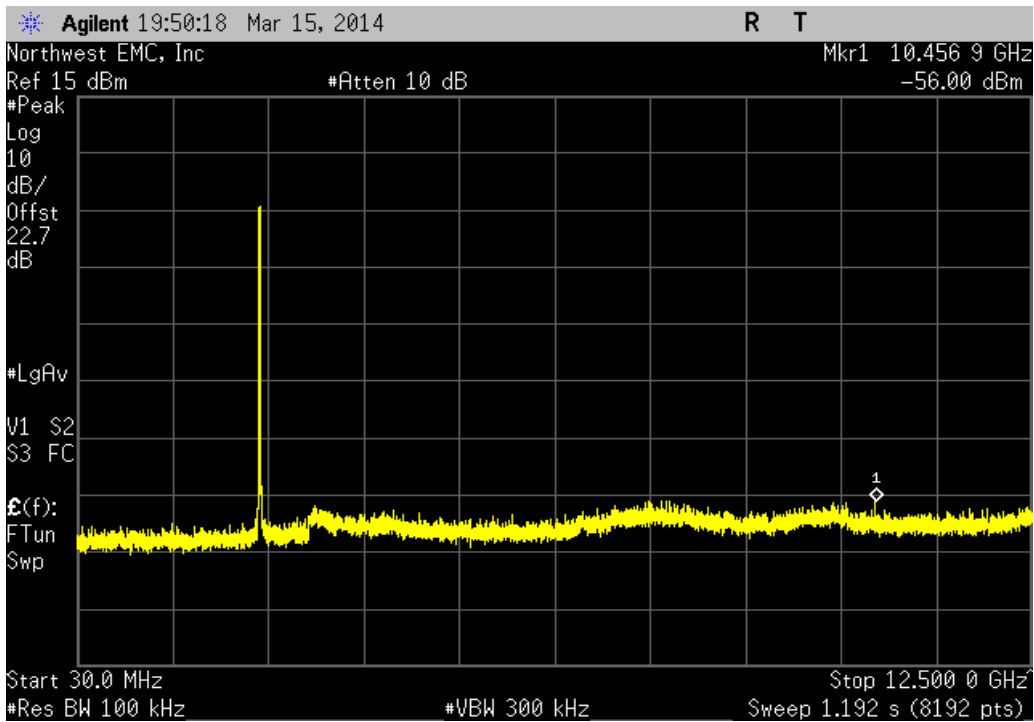
Chain B	Frequency Range	Value	Limit	Result
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20 MHz	2400 MHz - 2483.5 MHz Band			
	802.11(n) MCS8			
	Low Channel 1, 2412 MHz	Fundamental	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-59.62 dBc	≤ -20 dBc
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.21 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.71 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.87 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	Fundamental	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.78 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.02 dBc	≤ -20 dBc
	802.11(n) MCS15			
	Low Channel 1, 2412 MHz	Fundamental	N/A	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-54.23 dBc	≤ -20 dBc
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.36 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.86 dBc	≤ -20 dBc
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.86 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	Fundamental	N/A	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.15 dBc	≤ -20 dBc
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.76 dBc	≤ -20 dBc

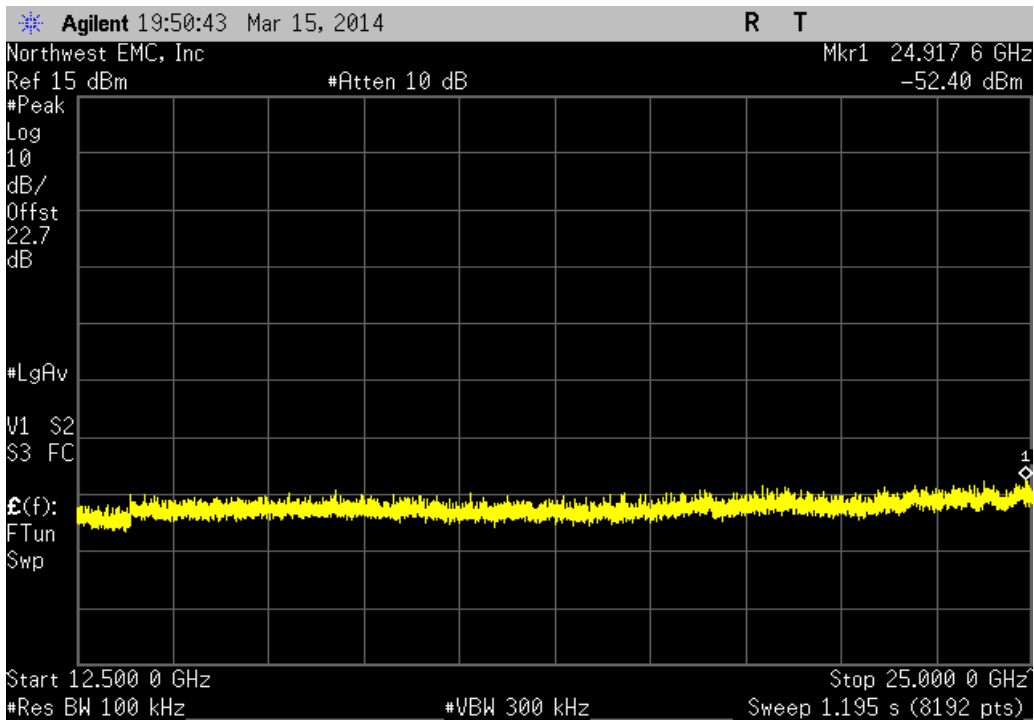
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



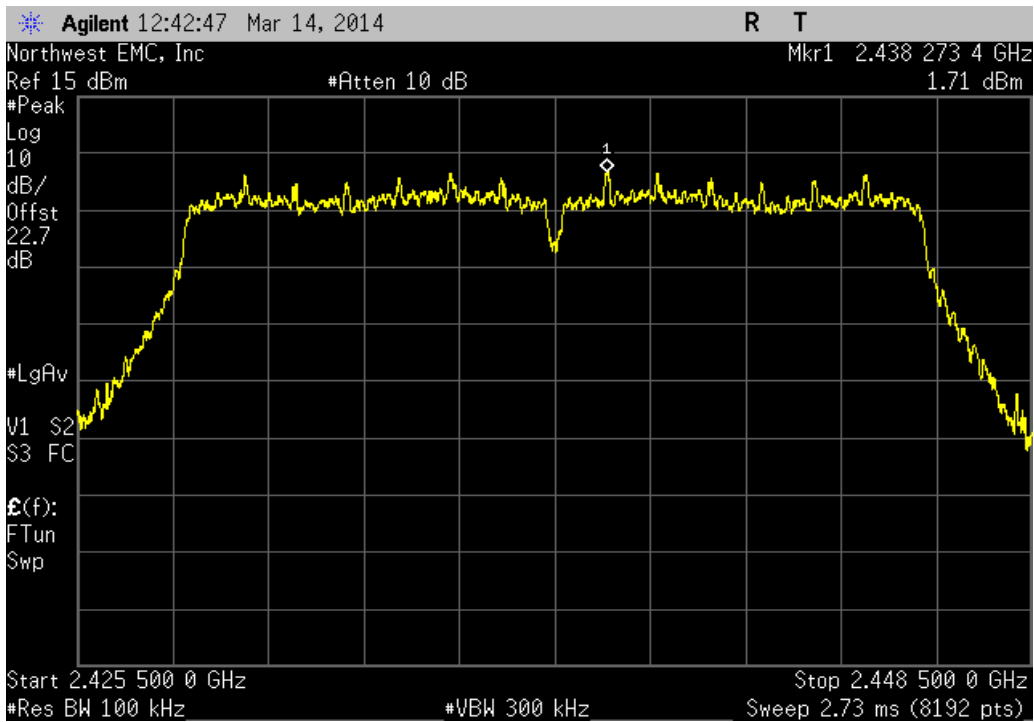
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-55.88 dBc	≤ -20 dBc	Pass



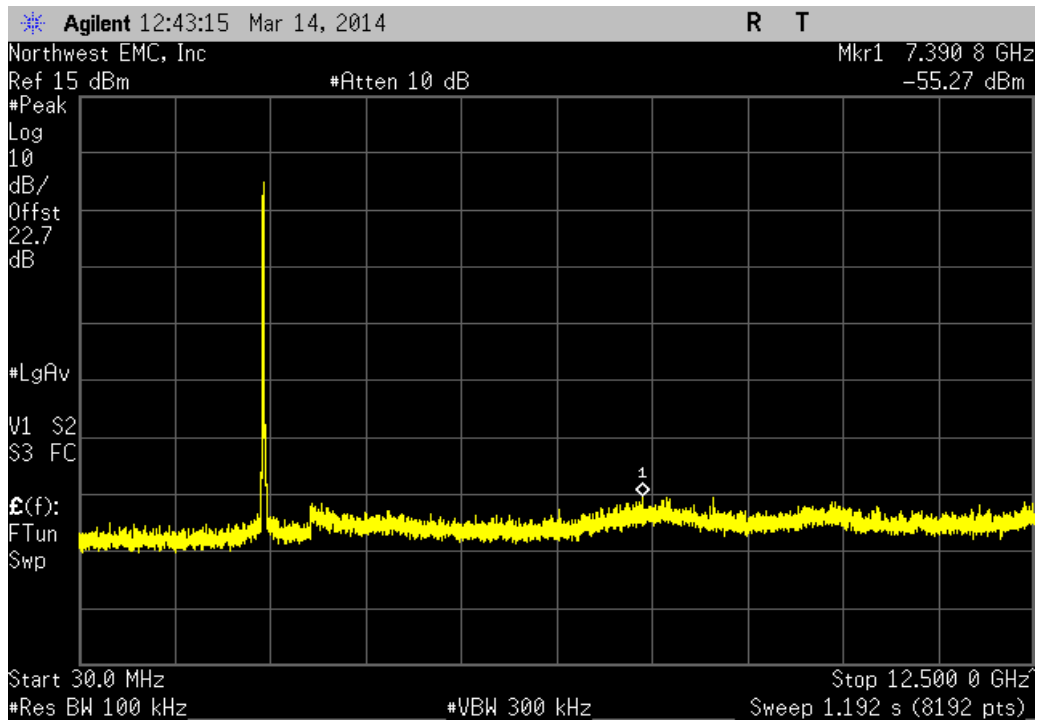
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.29 dBc	≤ -20 dBc	Pass



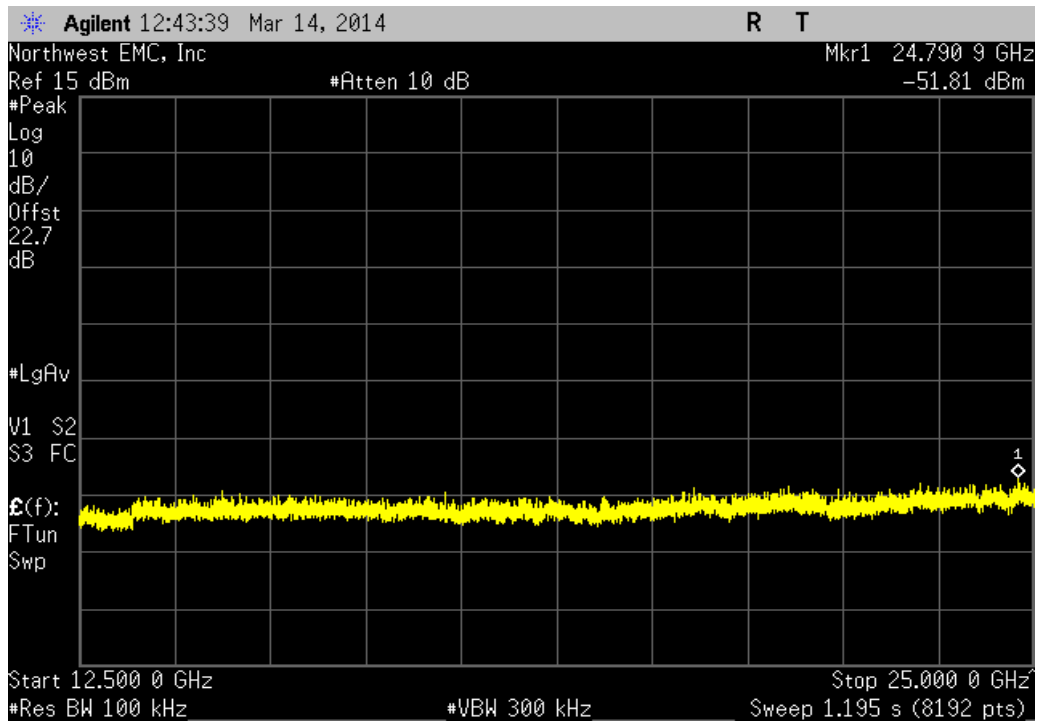
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



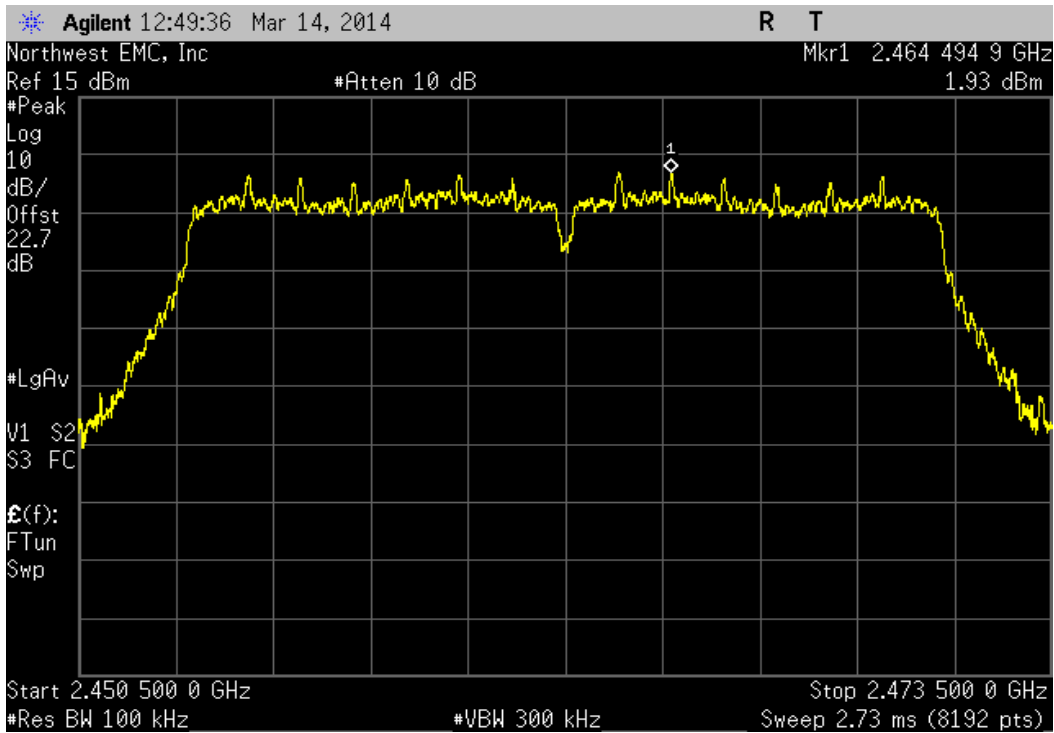
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.98 dBc	≤ -20 dBc	Pass



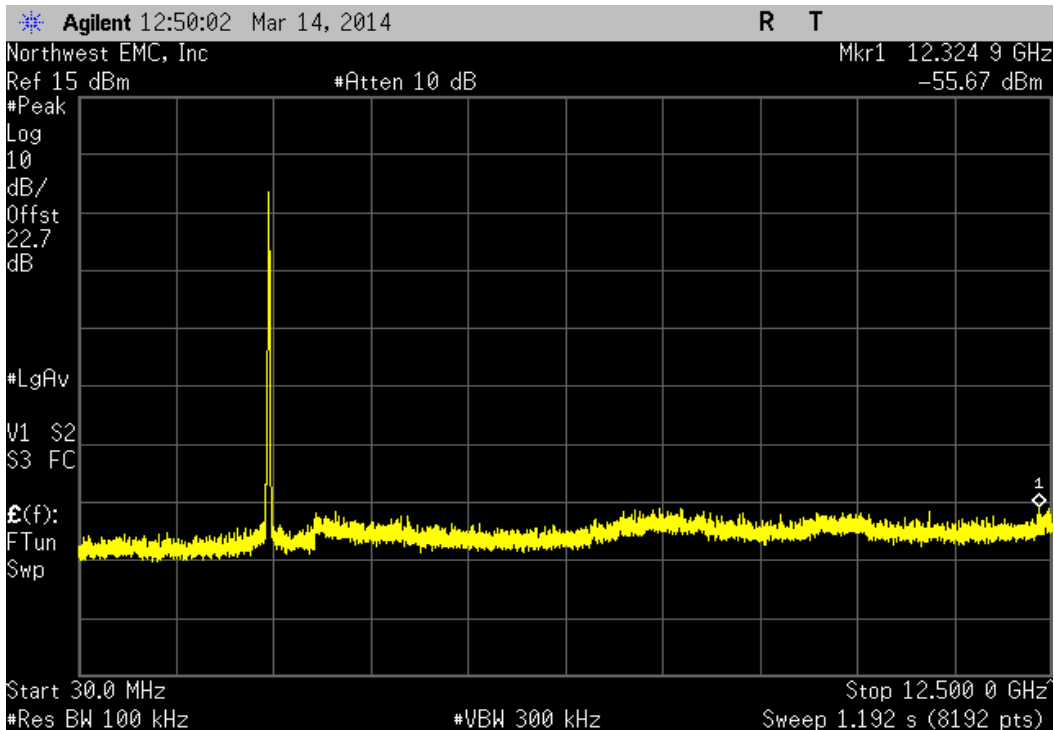
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.52 dBc	≤ -20 dBc	Pass



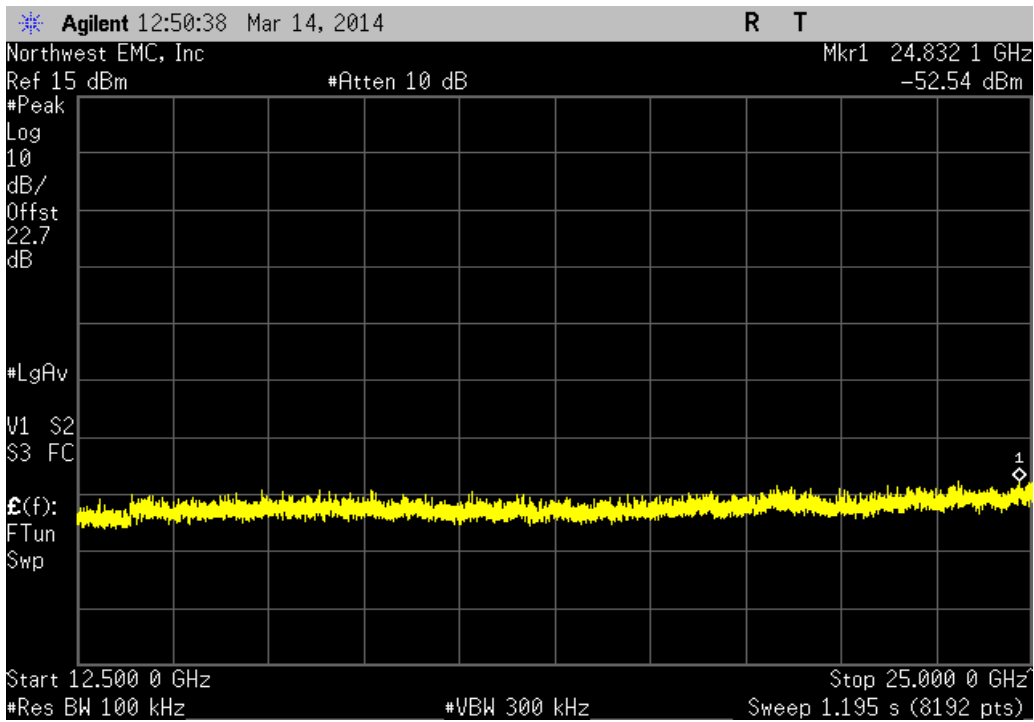
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
	Fundamental	N/A	N/A	N/A		



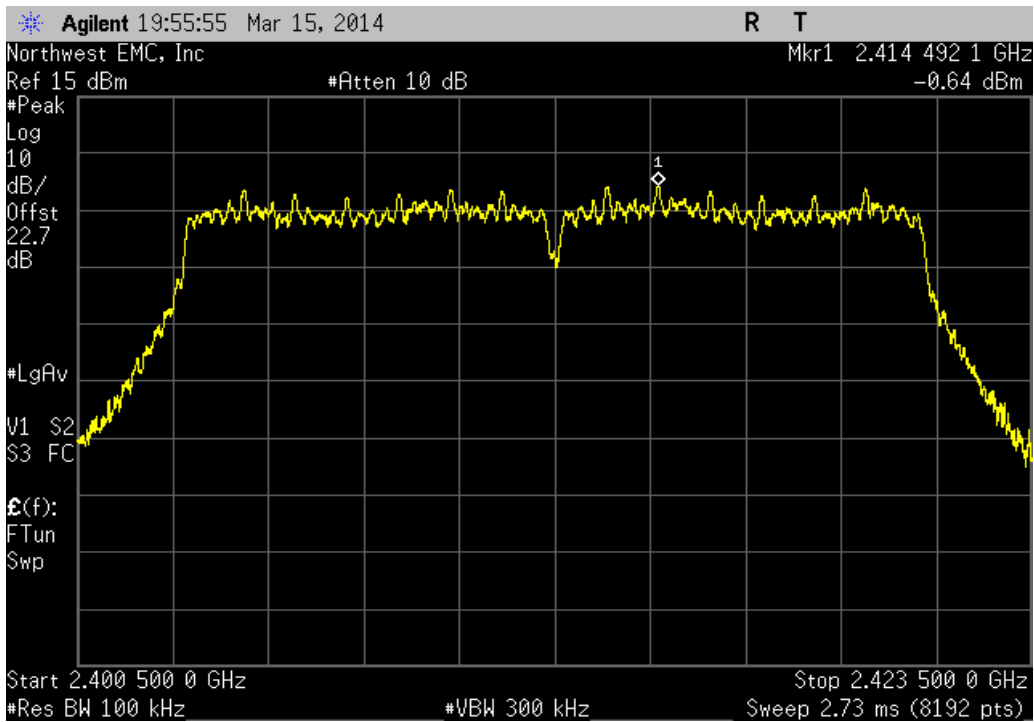
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
	30 MHz - 12.5 GHz	-57.6 dBc	≤ -20 dBc	Pass		



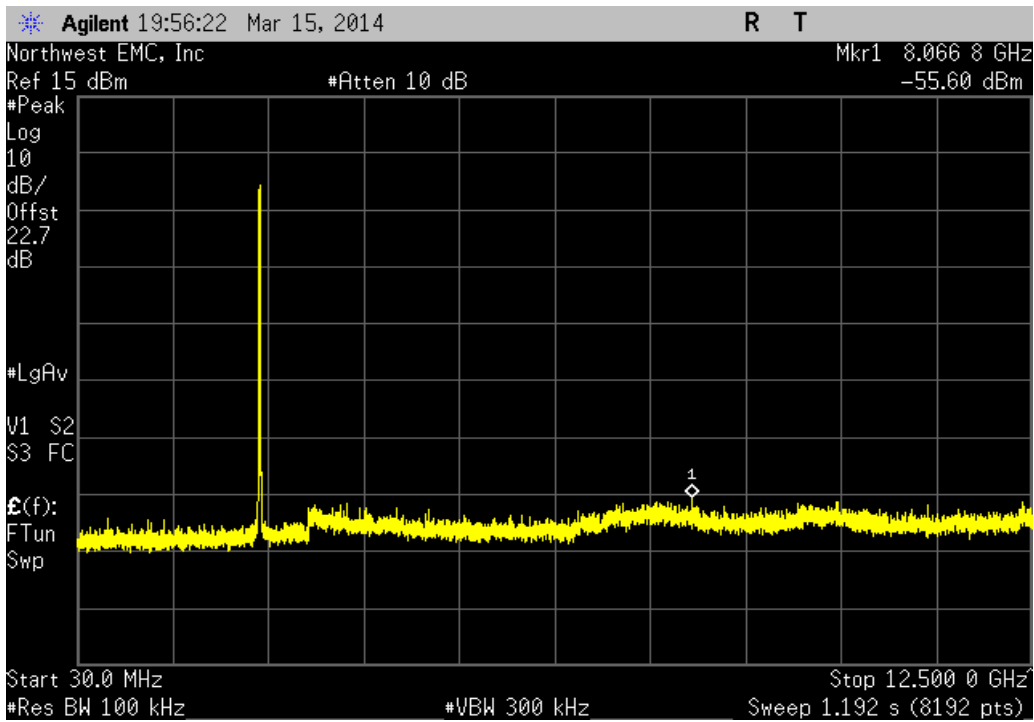
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.47 dBc	≤ -20 dBc	Pass



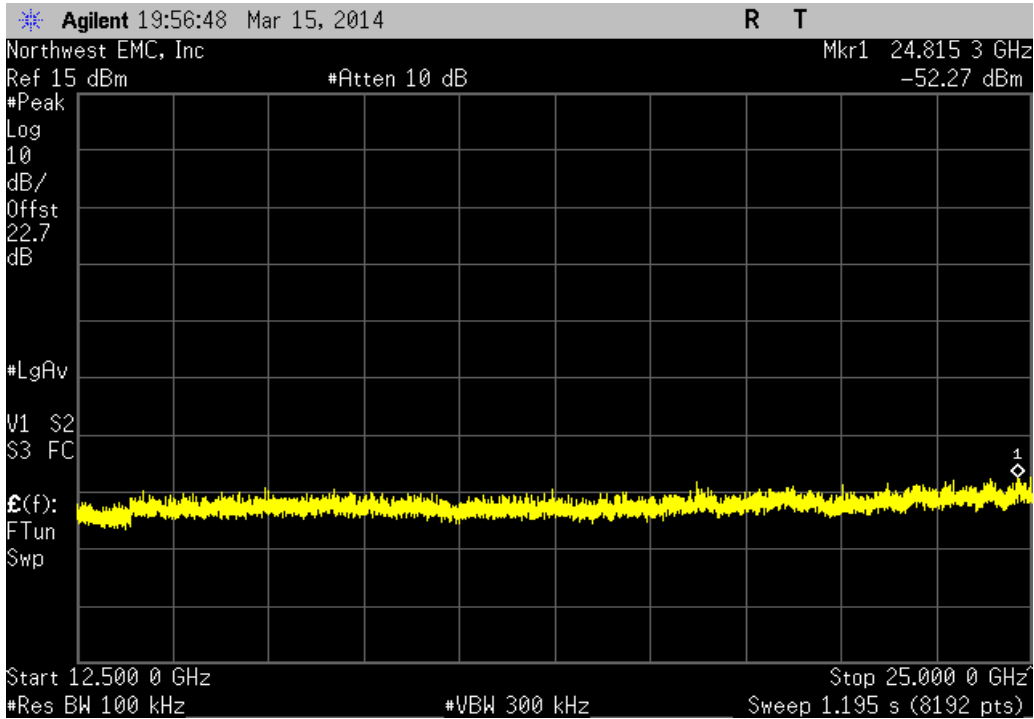
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



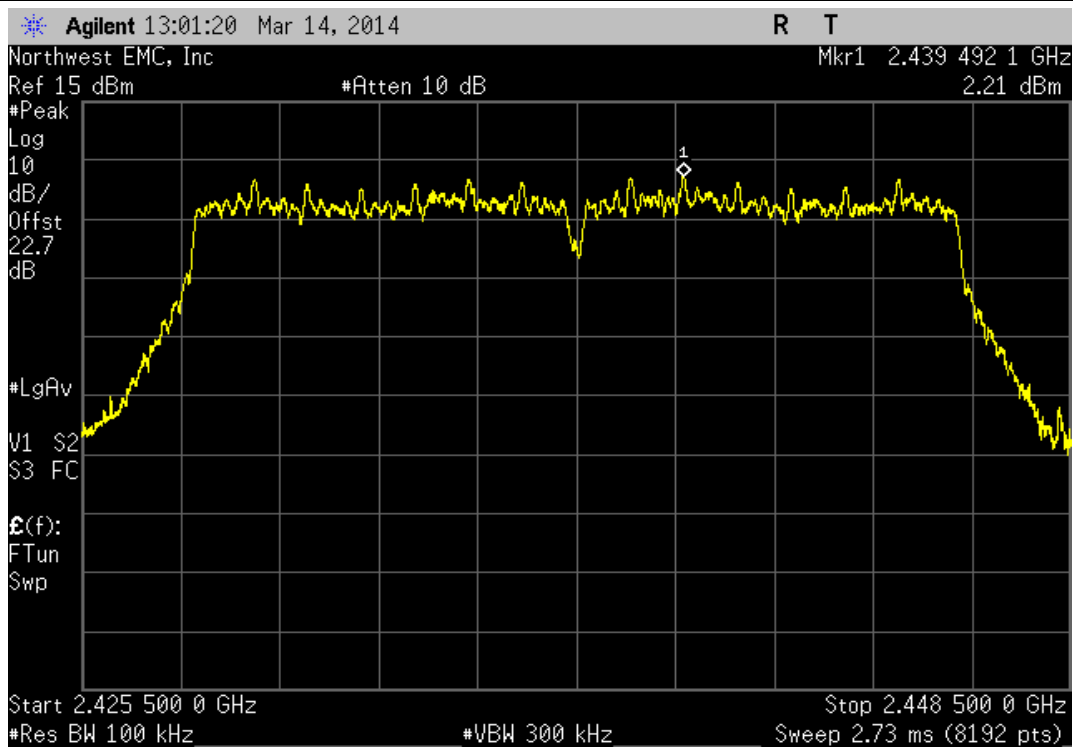
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.96 dBc	≤ -20 dBc	Pass



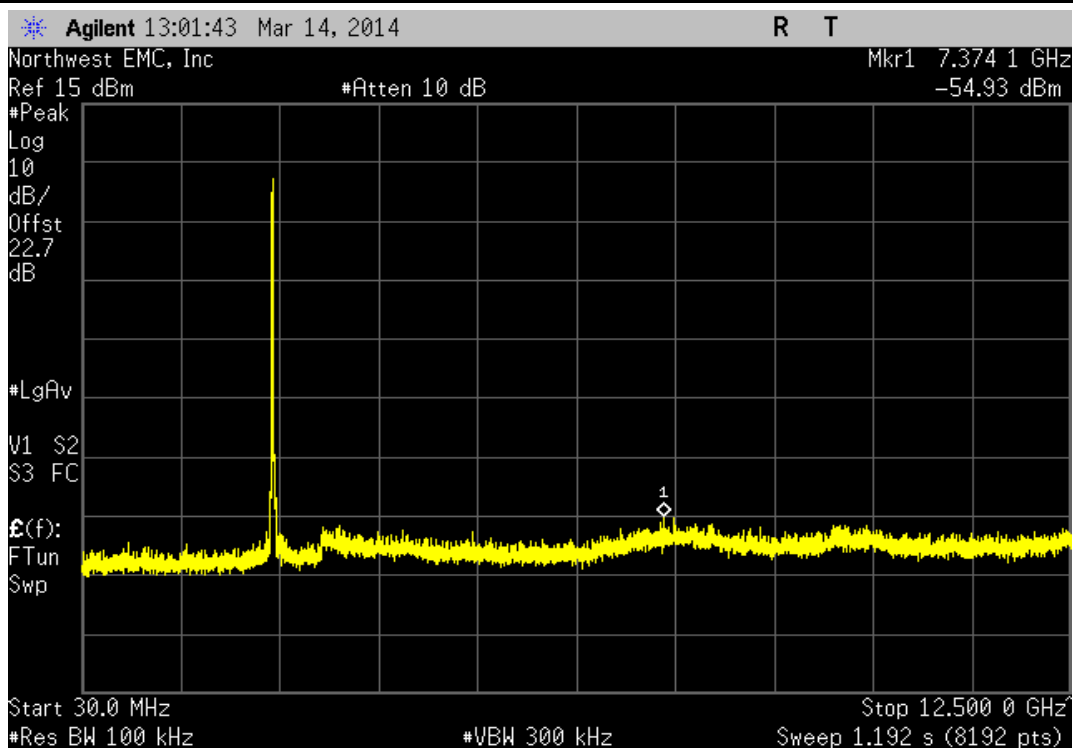
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.63 dBc	≤ -20 dBc	Pass



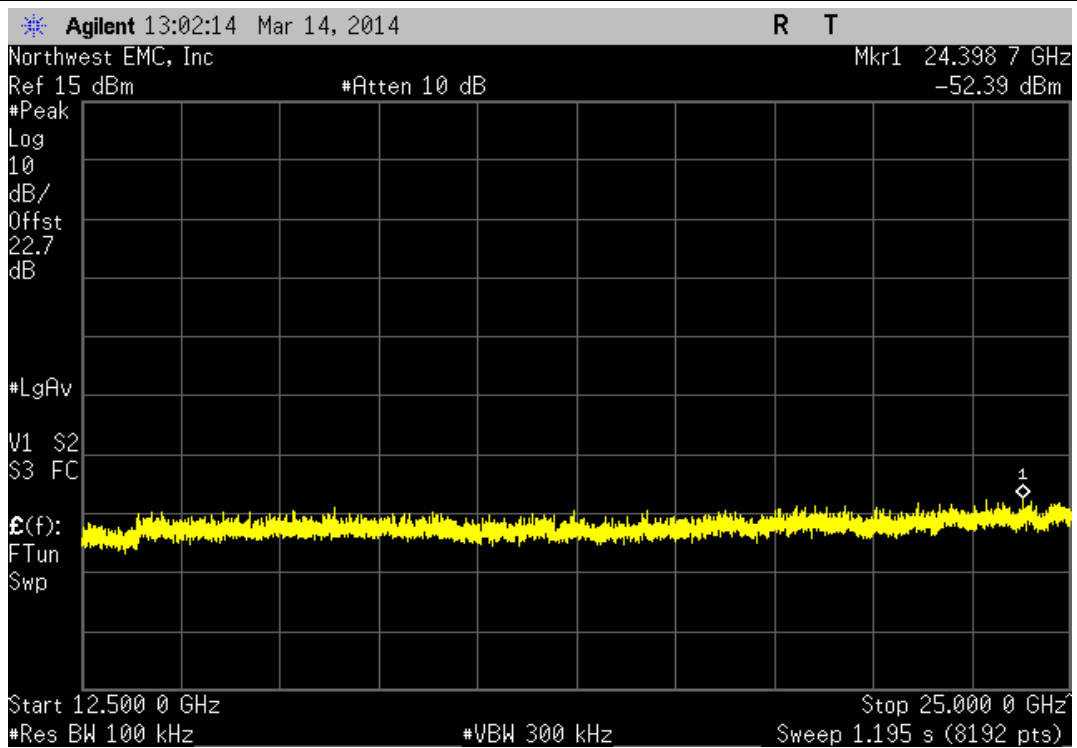
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz						
Frequency		Value	Limit	Result		
Range						
Fundamental		N/A	N/A	N/A		



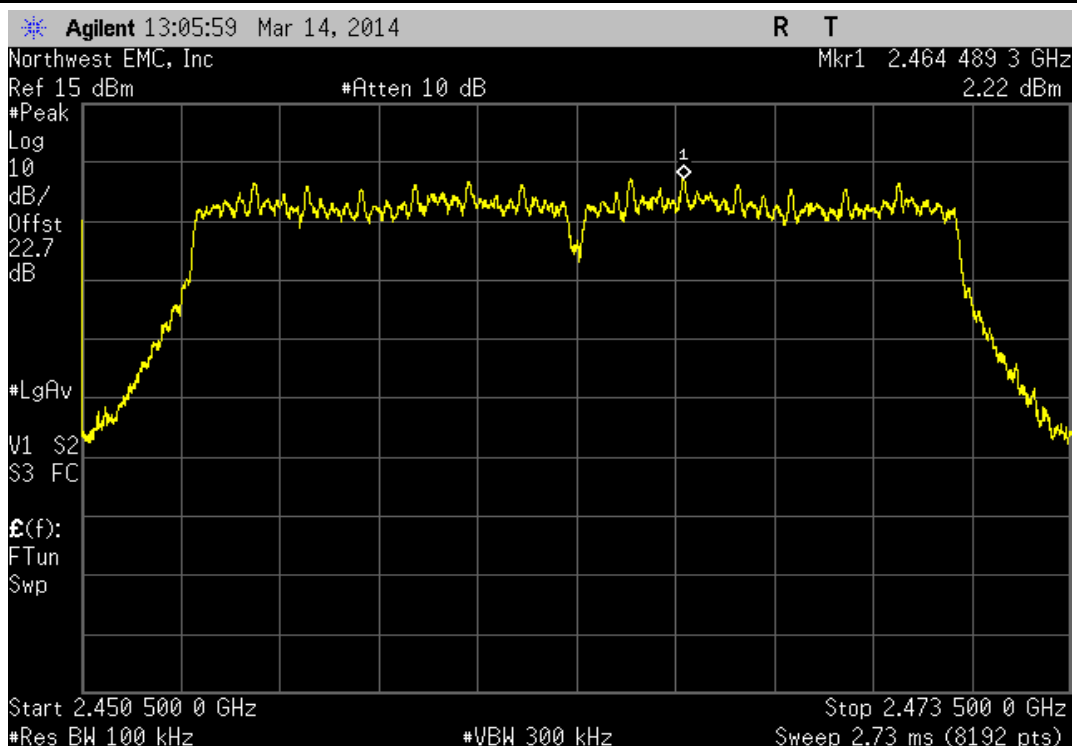
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz						
Frequency		Value	Limit	Result		
Range						
30 MHz - 12.5 GHz		-57.14 dBc	≤ -20 dBc	Pass		



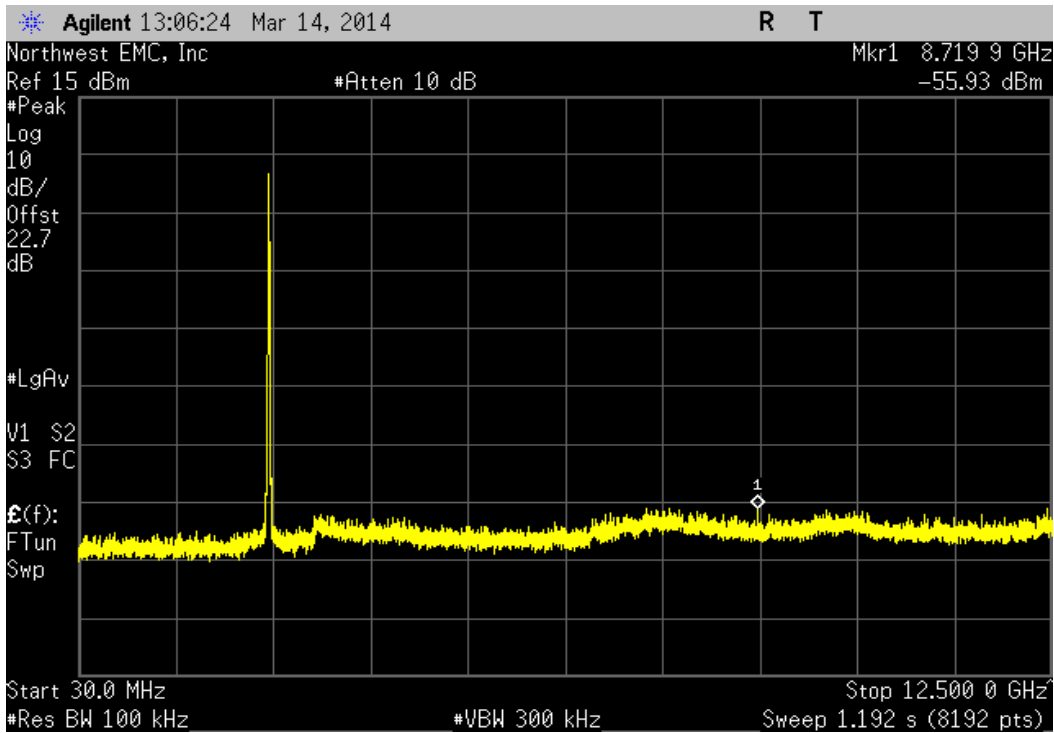
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.6 dBc	≤ -20 dBc	Pass	



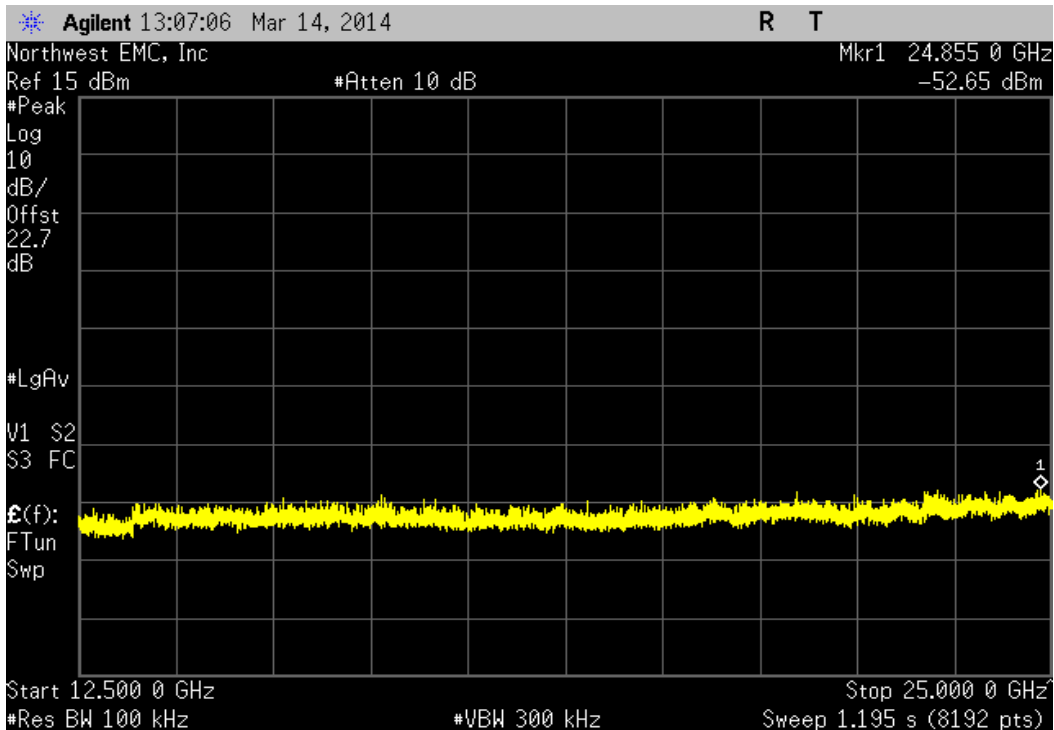
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



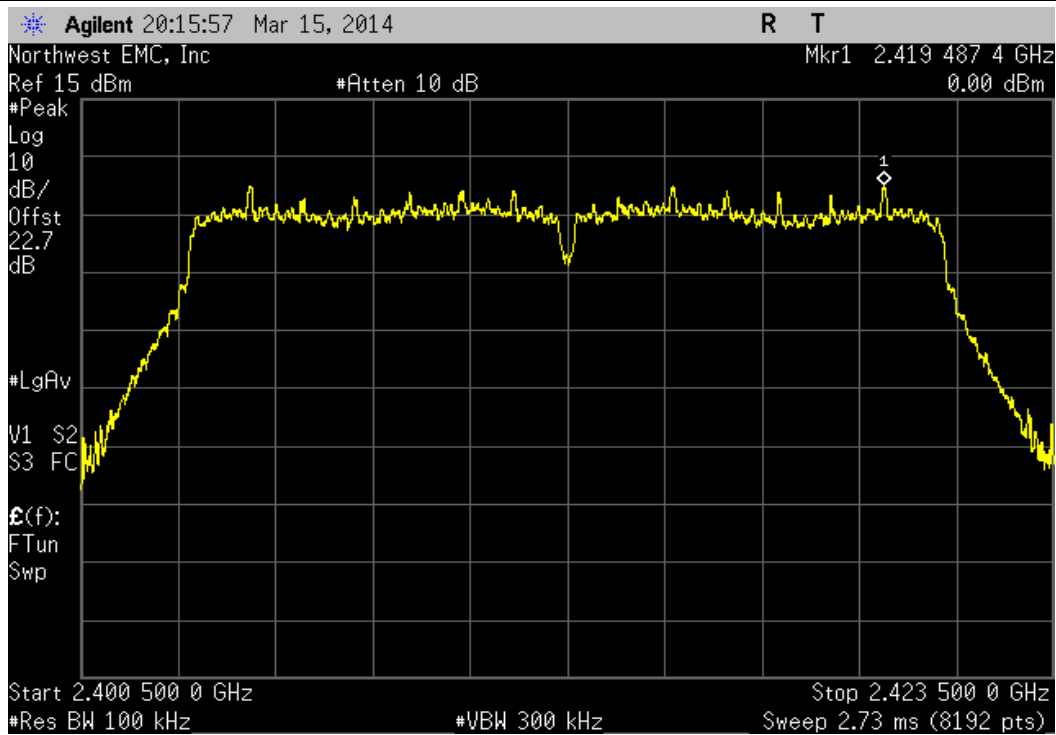
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-58.15 dBc	≤ -20 dBc	Pass



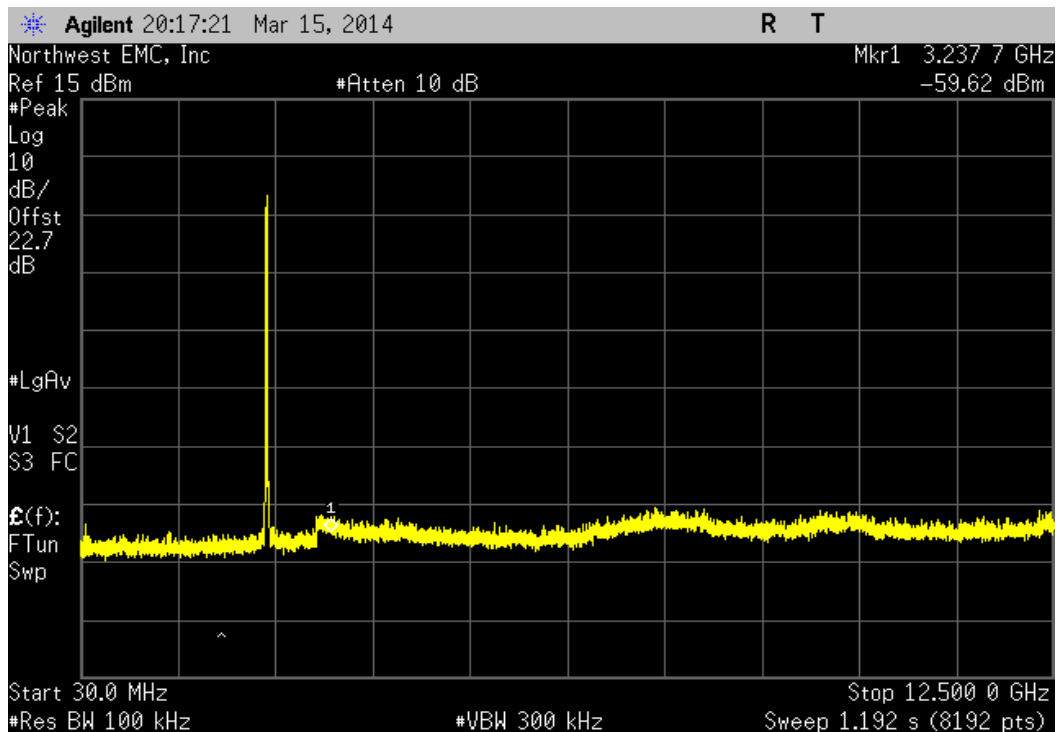
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.87 dBc	≤ -20 dBc	Pass



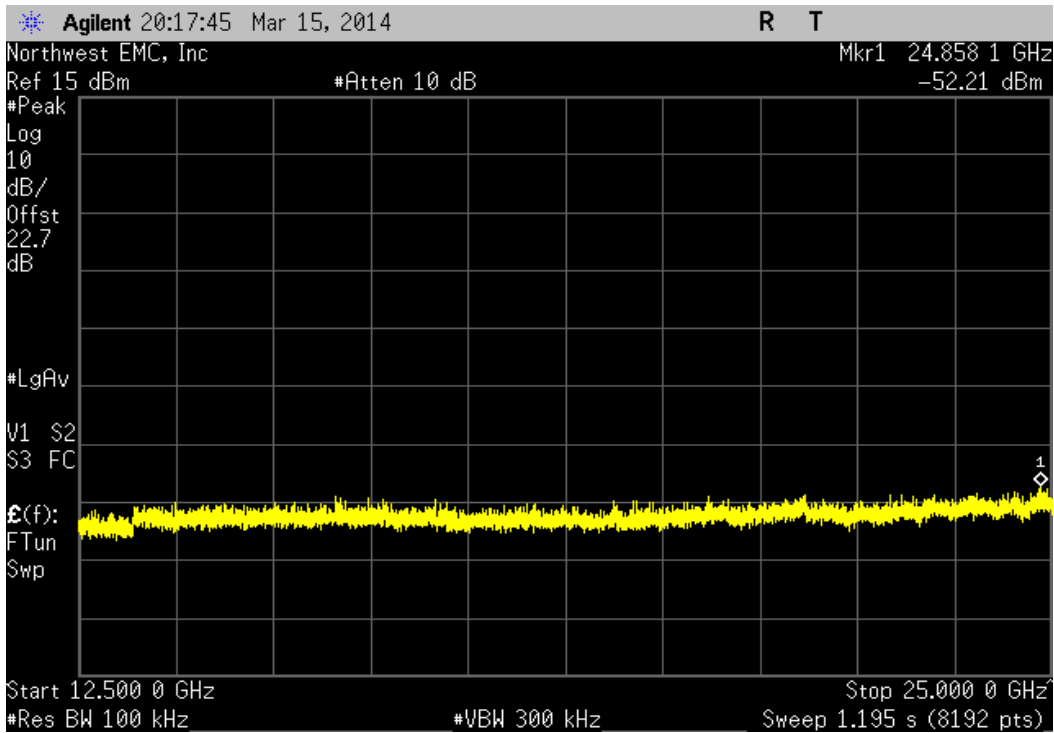
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
	Fundamental	N/A	N/A	N/A		



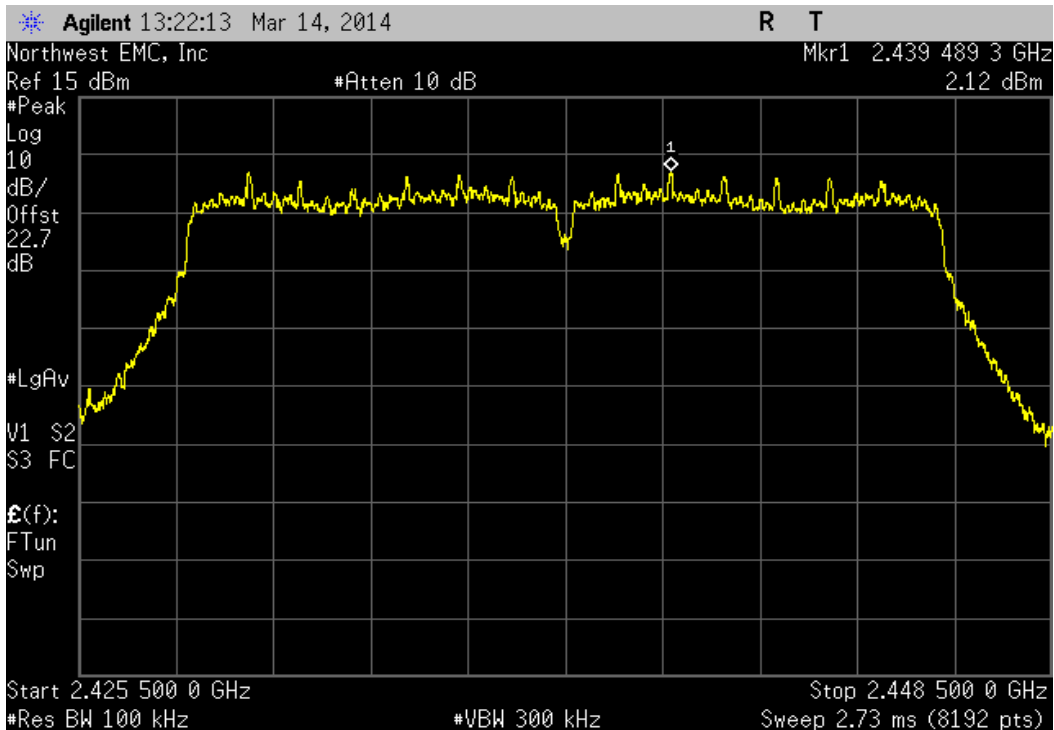
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
	30 MHz - 12.5 GHz	-59.62 dBc	≤ -20 dBc	Pass		



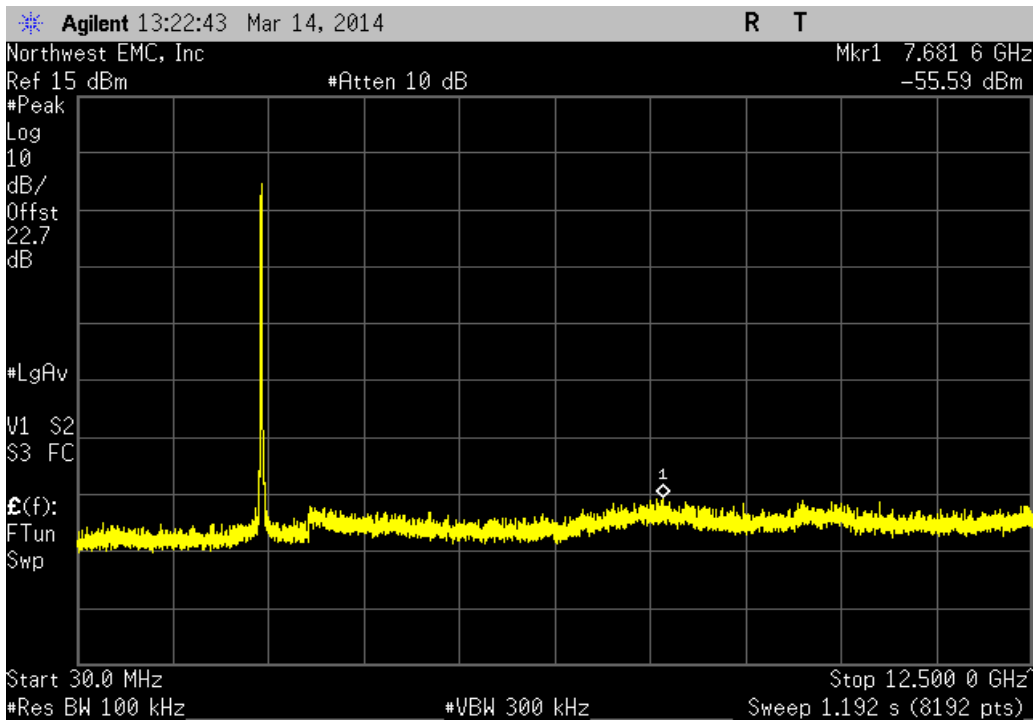
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-52.21 dBc	≤ -20 dBc	Pass



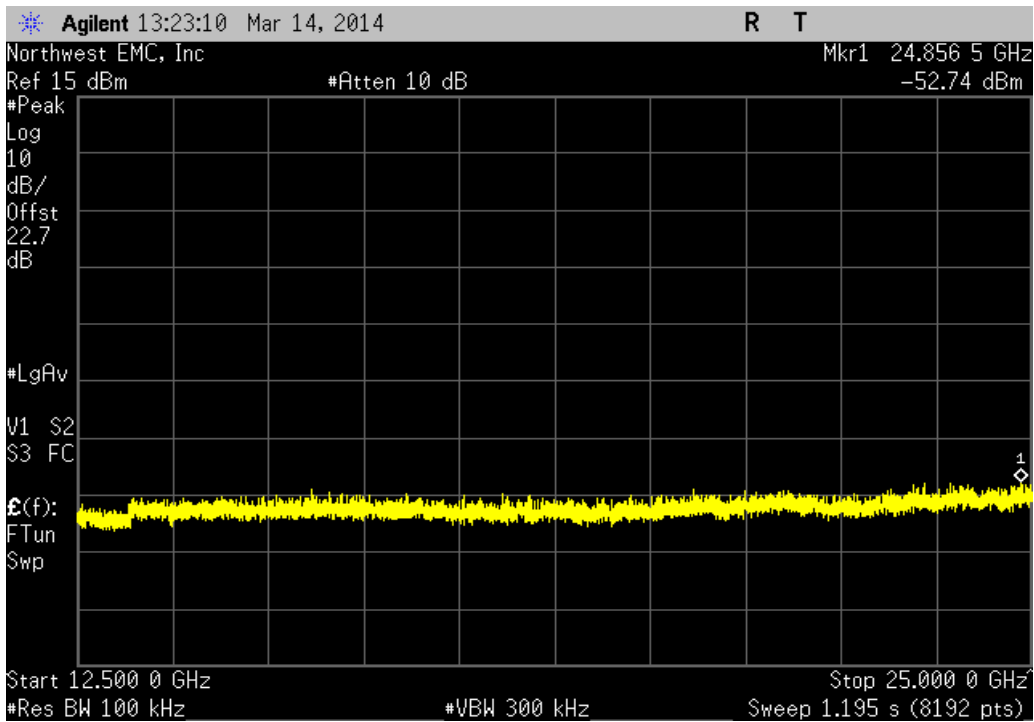
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



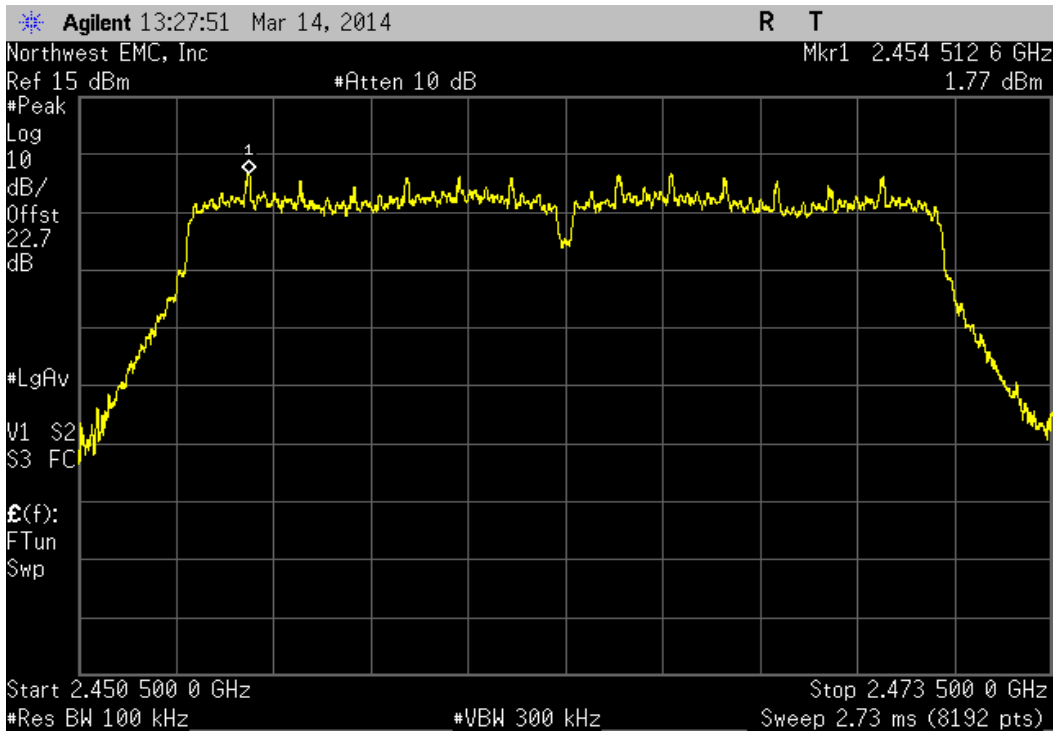
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.71 dBc	≤ -20 dBc	Pass



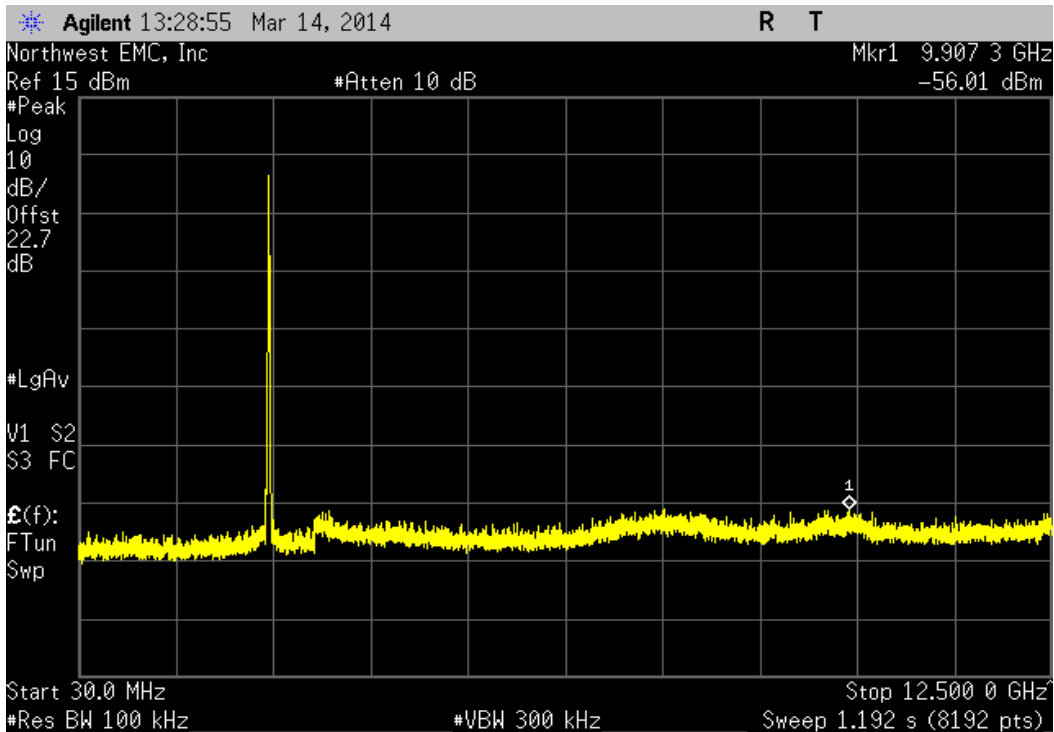
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.87 dBc	≤ -20 dBc	Pass



Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A

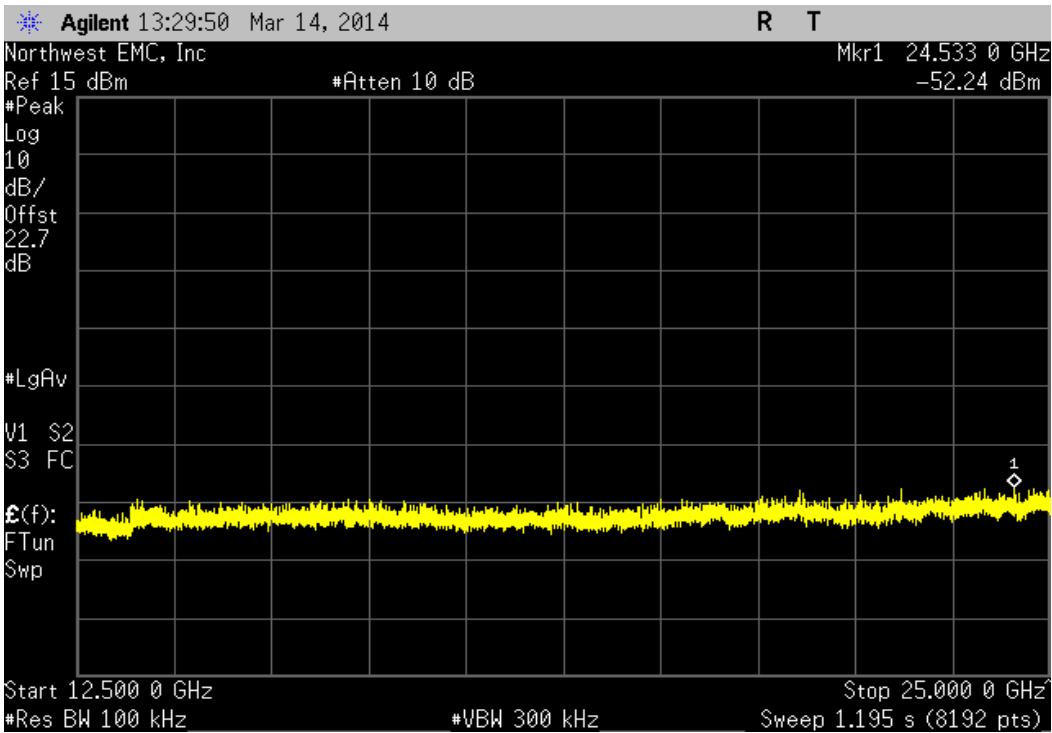


Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.78 dBc	≤ -20 dBc	Pass



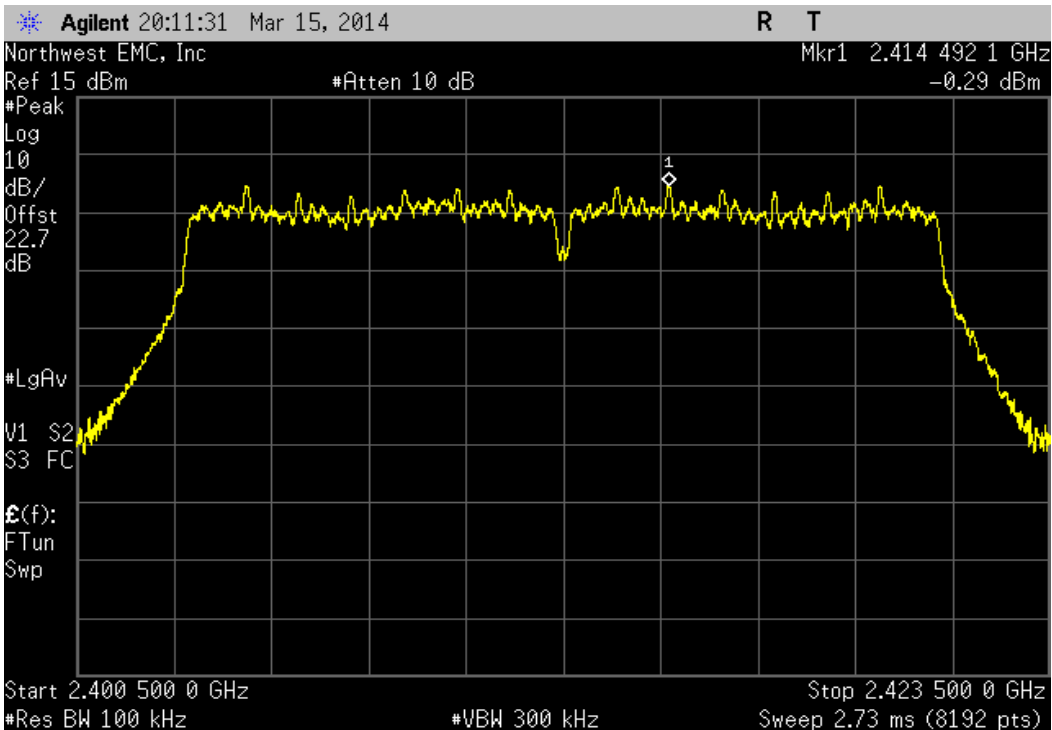
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz

Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.02 dBc	≤ -20 dBc	Pass

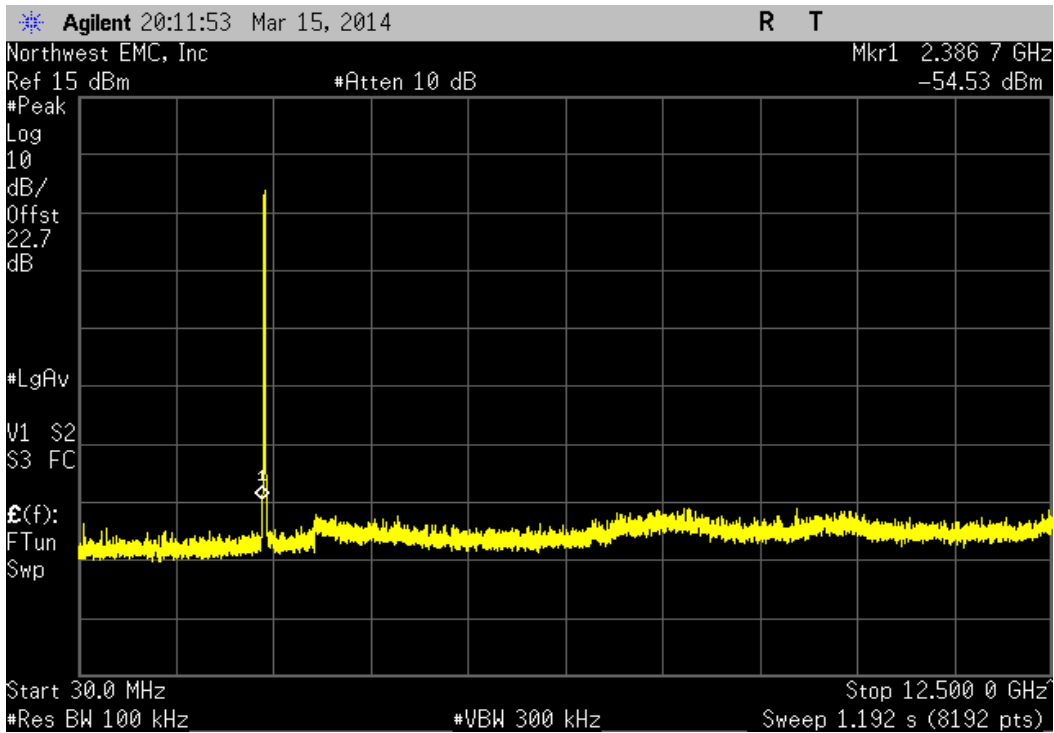


Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz

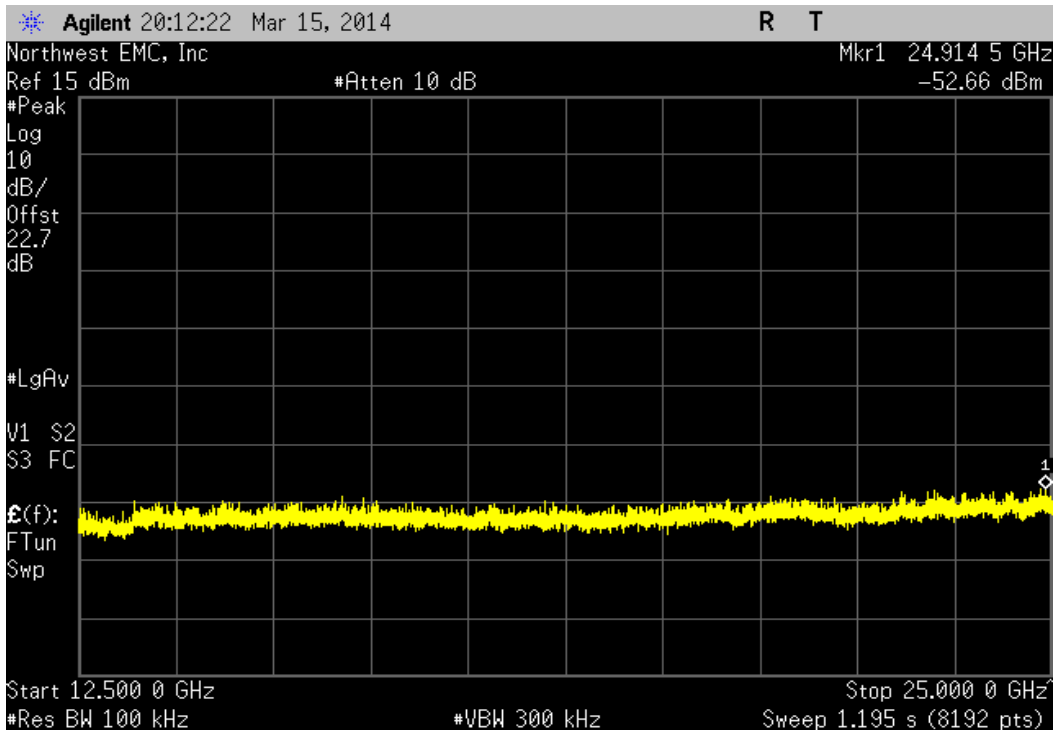
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



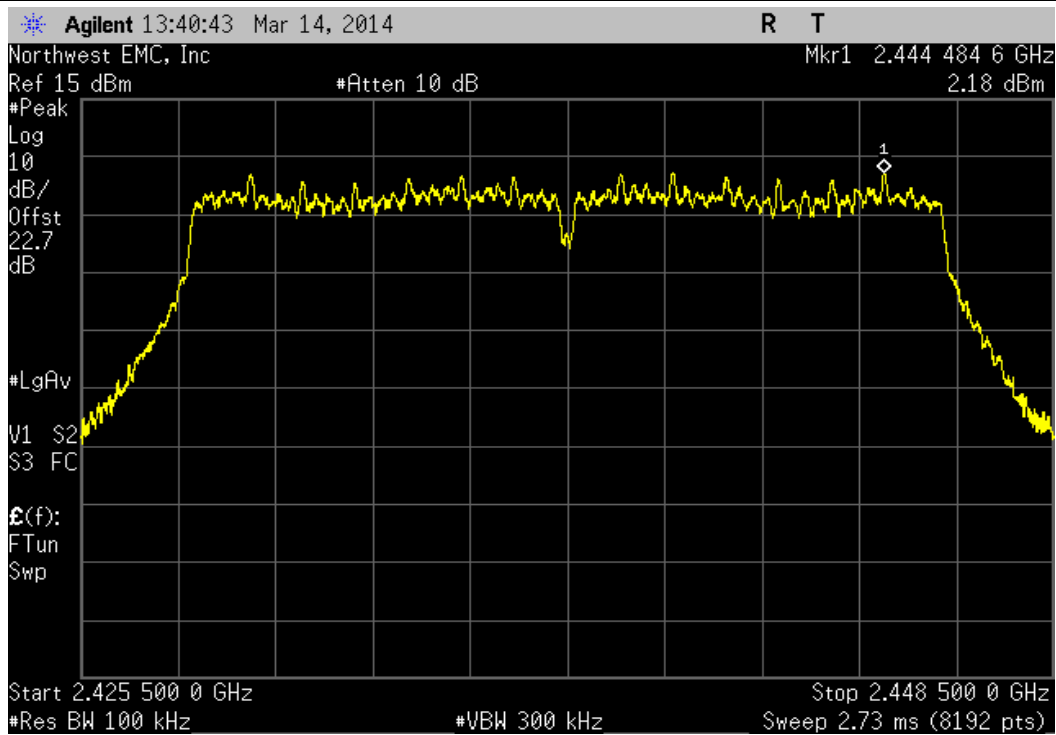
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-54.23 dBc	≤ -20 dBc	Pass



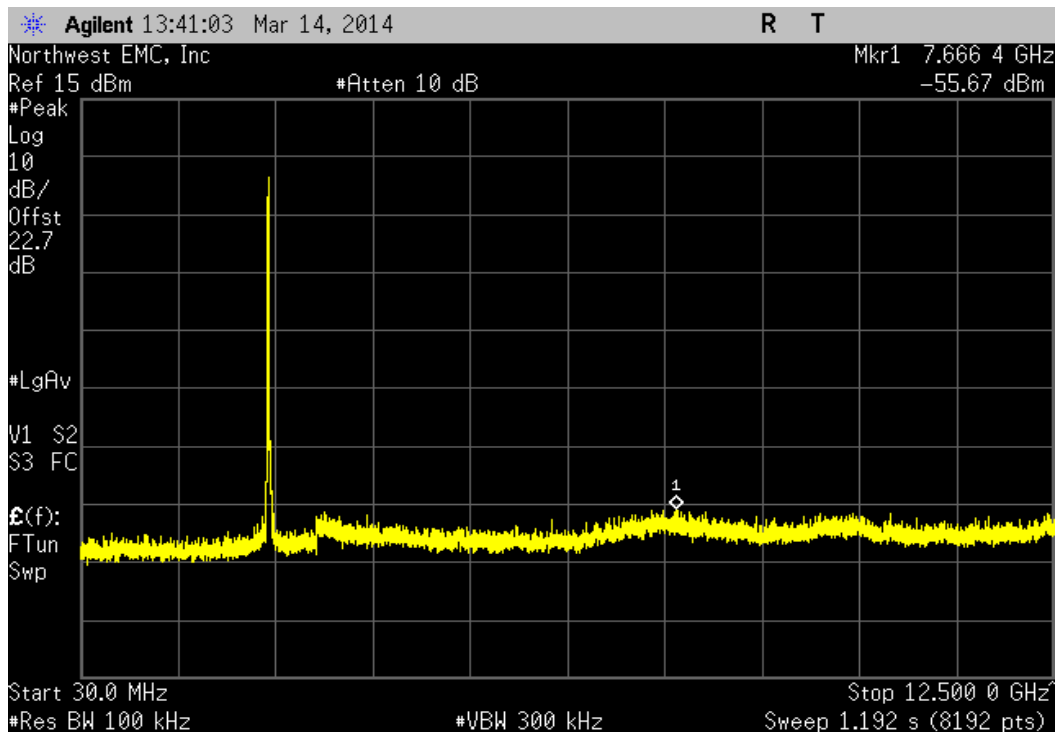
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.36 dBc	≤ -20 dBc	Pass



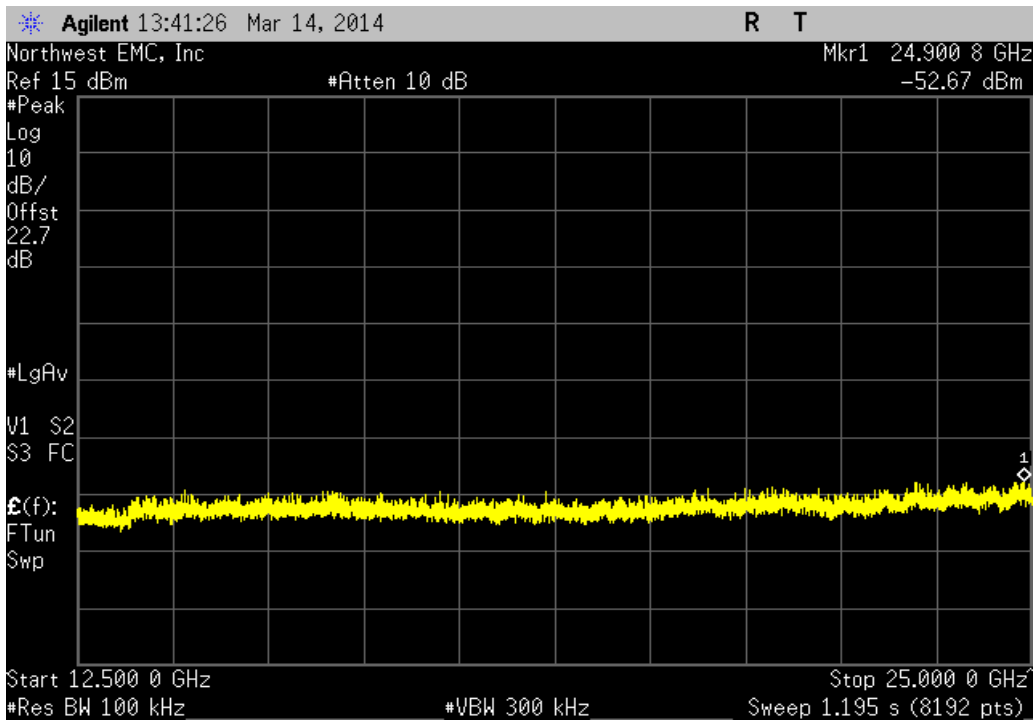
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



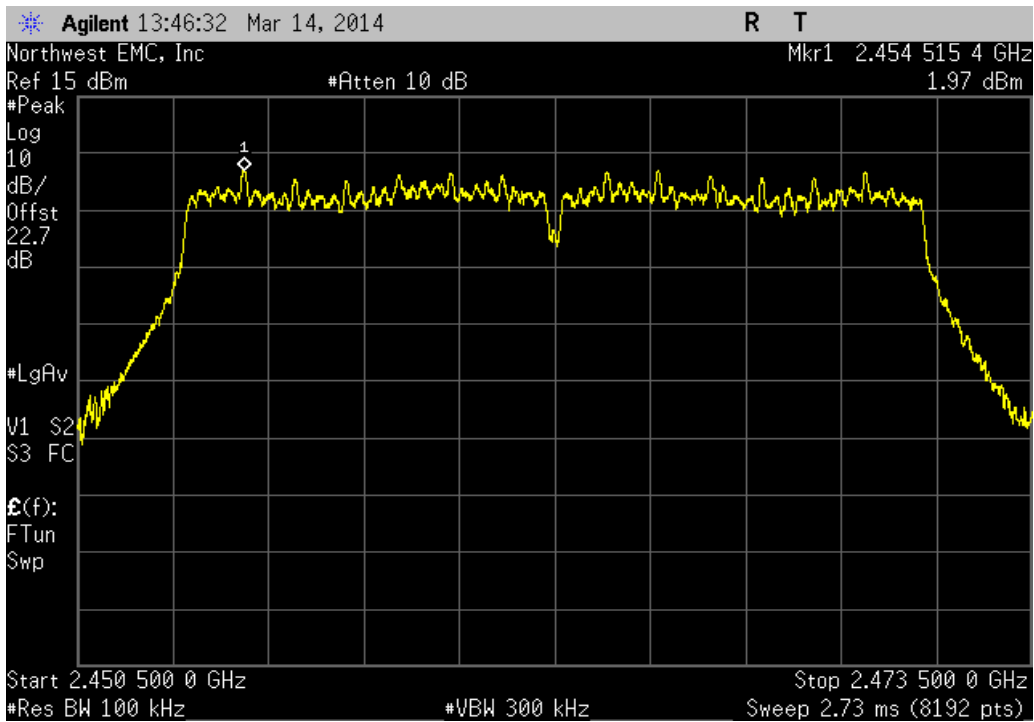
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-57.86 dBc	≤ -20 dBc	Pass		



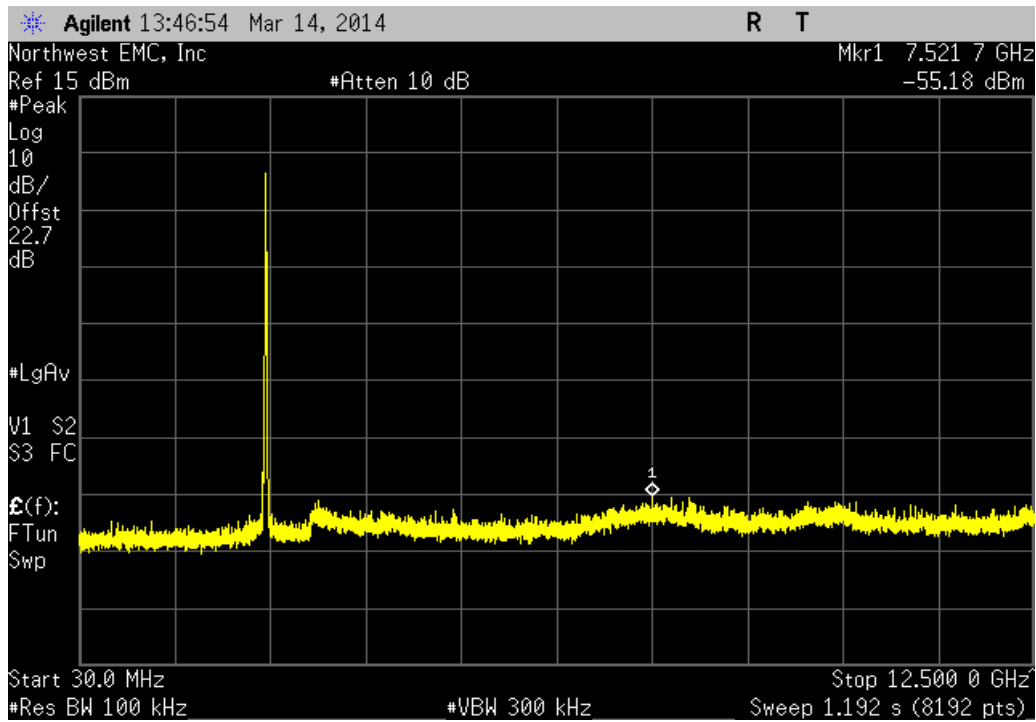
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.86 dBc	≤ -20 dBc	Pass



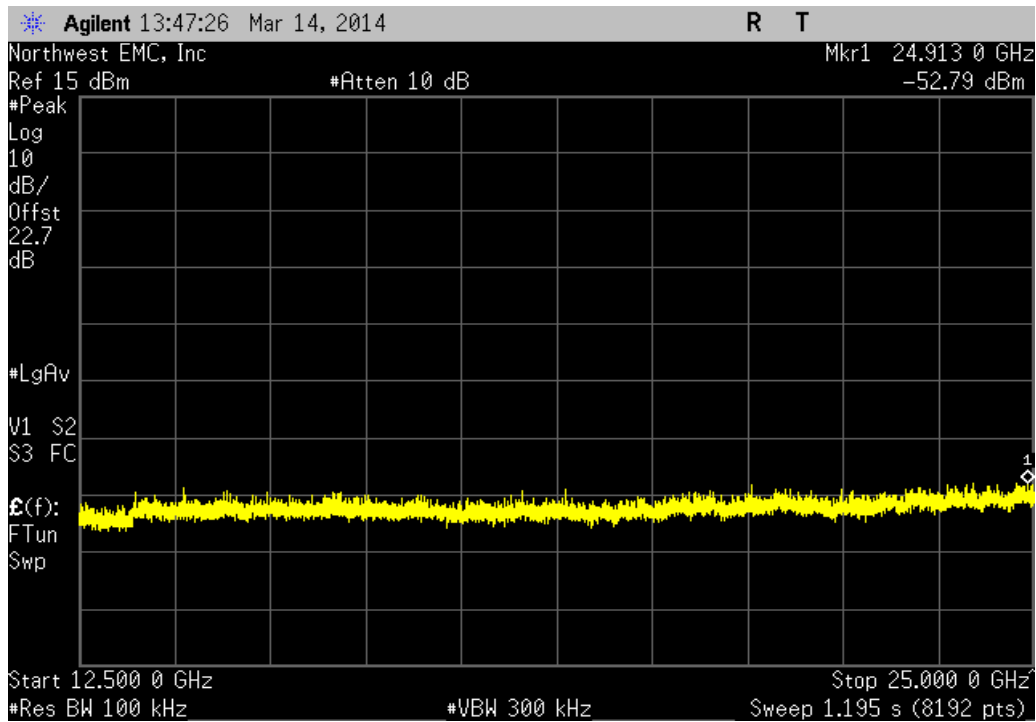
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.15 dBc	≤ -20 dBc	Pass



Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.76 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 (mo.)
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
MXG Analog Signal Generator	Agilent	N5181A	TIG	3/28/2014	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

EUT: Model 1631	Work Order: MCSO1698
Serial Number: 006840341053	Date: 04/16/14
Customer: Microsoft Corporation	Temperature: 22.3°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 1014
Tested by: Jared Ison	Power: 110VAC/60Hz
	Job Site: EV06

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

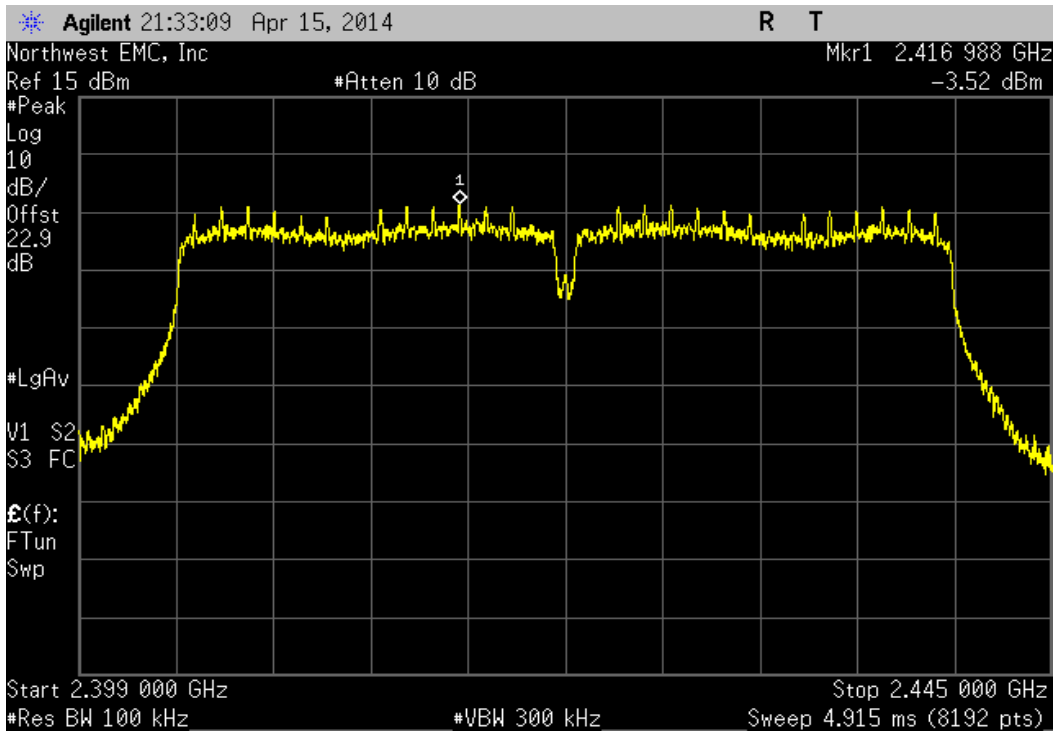
COMMENTS
Modes of operation tested were client provided. Reference power level table for channel power setting.

DEVIATIONS FROM TEST STANDARD
None

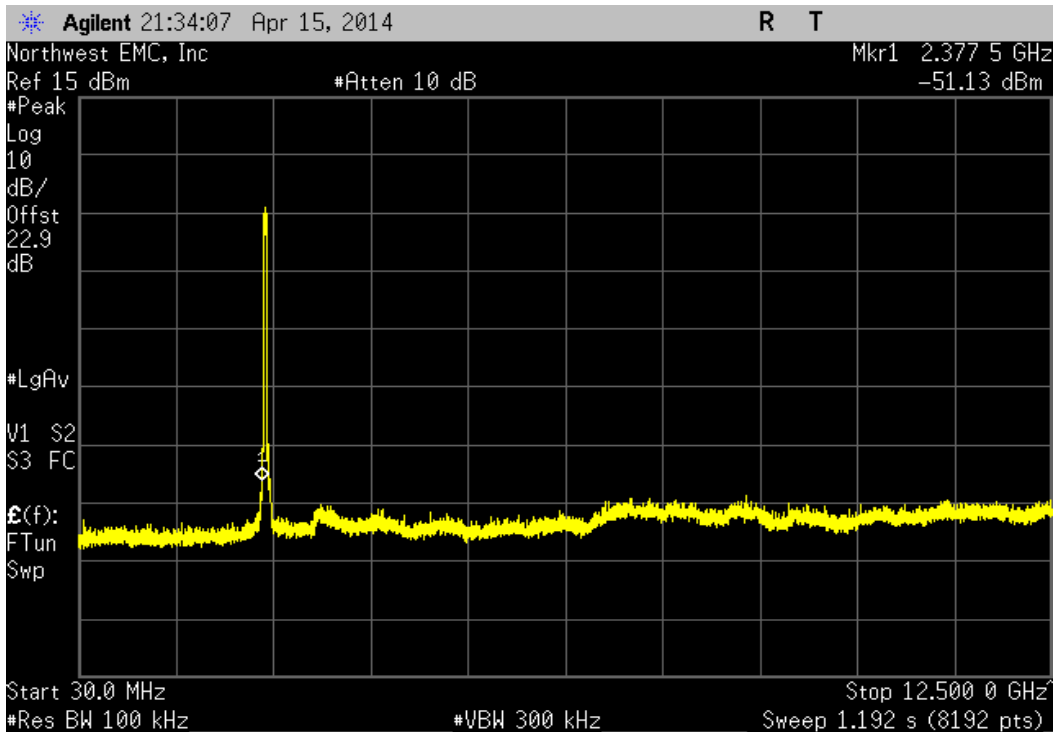
Configuration #	6	Signature 
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Chain A	Frequency Range	Value	Limit	Result
40 MHz	2400 MHz - 2483.5 MHz Band			
	802.11(n) MCS8			
	Low Channel 1/5, 2422 MF	Fundamental	N/A	N/A
	Low Channel 1/5, 2422 MF	30 MHz - 12.5 GHz	-47.61 dBc	≤ -20 dBc
	Low Channel 1/5, 2422 MF	12.5 GHz - 25 GHz	-43.13 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	Fundamental	N/A	N/A
	Mid Channel 4/8, 2437 MH	30 MHz - 12.5 GHz	-50.05 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	12.5 GHz - 25 GHz	-42.92 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	Fundamental	N/A	N/A
	High Channel 7/11, 2452 N	30 MHz - 12.5 GHz	-49.44 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	12.5 GHz - 25 GHz	-42.8 dBc	≤ -20 dBc
	802.11(n) MCS15			
	Low Channel 1/5, 2422 MF	Fundamental	N/A	N/A
	Low Channel 1/5, 2422 MF	30 MHz - 12.5 GHz	-47.11 dBc	≤ -20 dBc
	Low Channel 1/5, 2422 MF	12.5 GHz - 25 GHz	-43.22 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	Fundamental	N/A	N/A
	Mid Channel 4/8, 2437 MH	30 MHz - 12.5 GHz	-50.32 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	12.5 GHz - 25 GHz	-42.83 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	Fundamental	N/A	N/A
	High Channel 7/11, 2452 N	30 MHz - 12.5 GHz	-50.15 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	12.5 GHz - 25 GHz	-43.48 dBc	≤ -20 dBc
Chain B				
40 MHz	2400 MHz - 2483.5 MHz Band			
	802.11(n) MCS8			
	Low Channel 1/5, 2422 MF	Fundamental	N/A	N/A
	Low Channel 1/5, 2422 MF	30 MHz - 12.5 GHz	-47.41 dBc	≤ -20 dBc
	Low Channel 1/5, 2422 MF	12.5 GHz - 25 GHz	-43.85 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	Fundamental	N/A	N/A
	Mid Channel 4/8, 2437 MH	30 MHz - 12.5 GHz	-50.62 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	12.5 GHz - 25 GHz	-43.56 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	Fundamental	N/A	N/A
	High Channel 7/11, 2452 N	30 MHz - 12.5 GHz	-50.86 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	12.5 GHz - 25 GHz	-43.27 dBc	≤ -20 dBc
	802.11(n) MCS15			
	Low Channel 1/5, 2422 MF	Fundamental	N/A	N/A
	Low Channel 1/5, 2422 MF	30 MHz - 12.5 GHz	-46.01 dBc	≤ -20 dBc
	Low Channel 1/5, 2422 MF	12.5 GHz - 25 GHz	-43.34 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	Fundamental	N/A	N/A
	Mid Channel 4/8, 2437 MH	30 MHz - 12.5 GHz	-51.05 dBc	≤ -20 dBc
	Mid Channel 4/8, 2437 MH	12.5 GHz - 25 GHz	-43.98 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	Fundamental	N/A	N/A
	High Channel 7/11, 2452 N	30 MHz - 12.5 GHz	-51.19 dBc	≤ -20 dBc
	High Channel 7/11, 2452 N	12.5 GHz - 25 GHz	-43.91 dBc	≤ -20 dBc

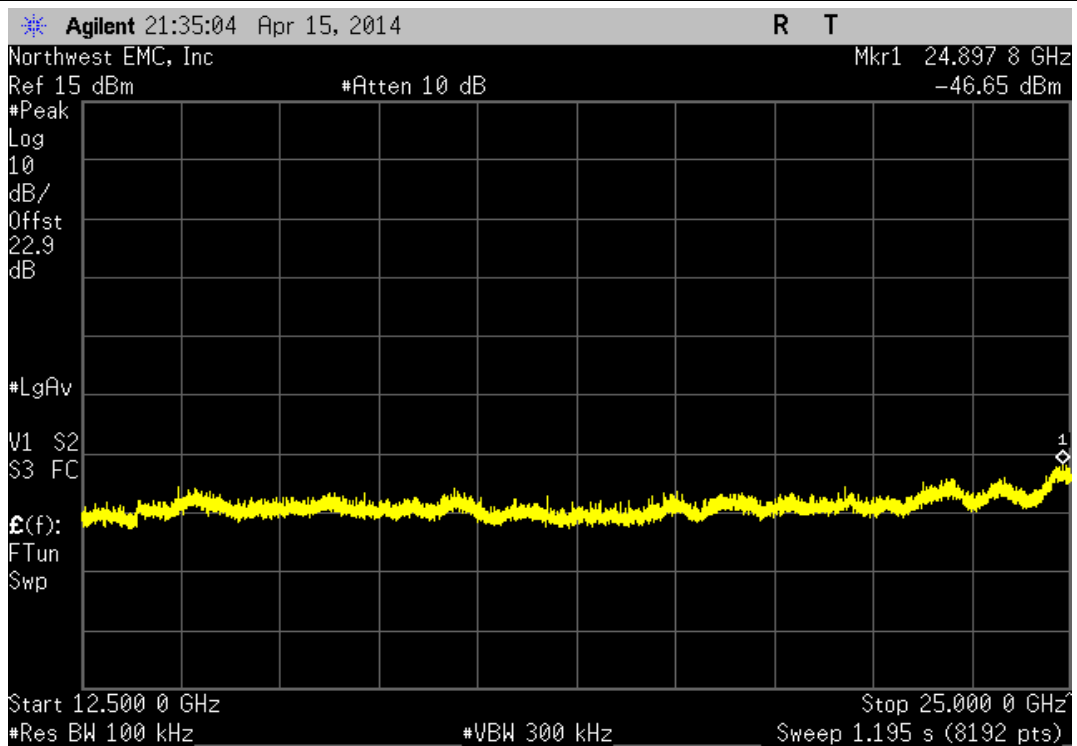
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



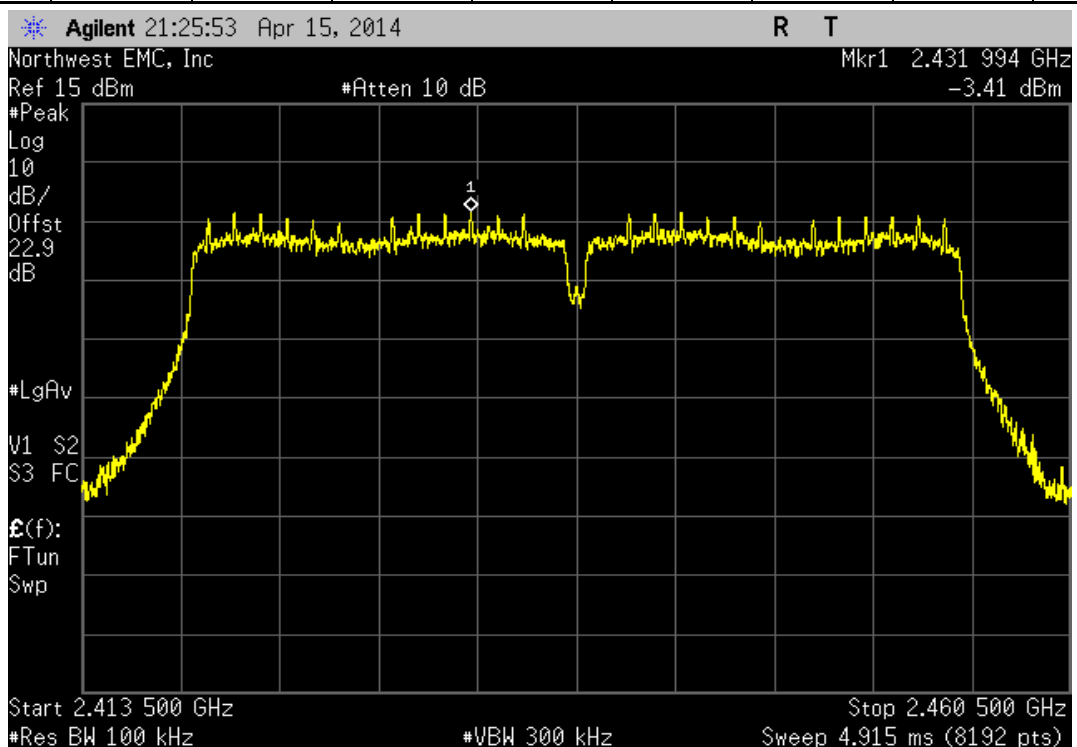
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-47.61 dBc	≤ -20 dBc	Pass		



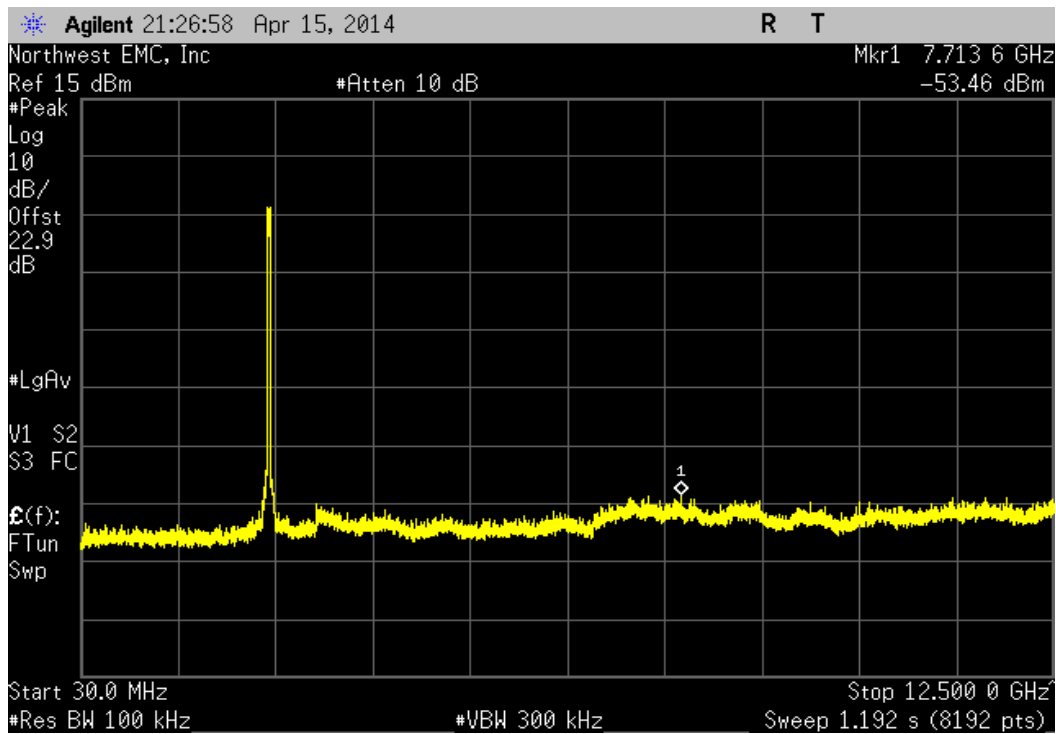
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.13 dBc	≤ -20 dBc	Pass	



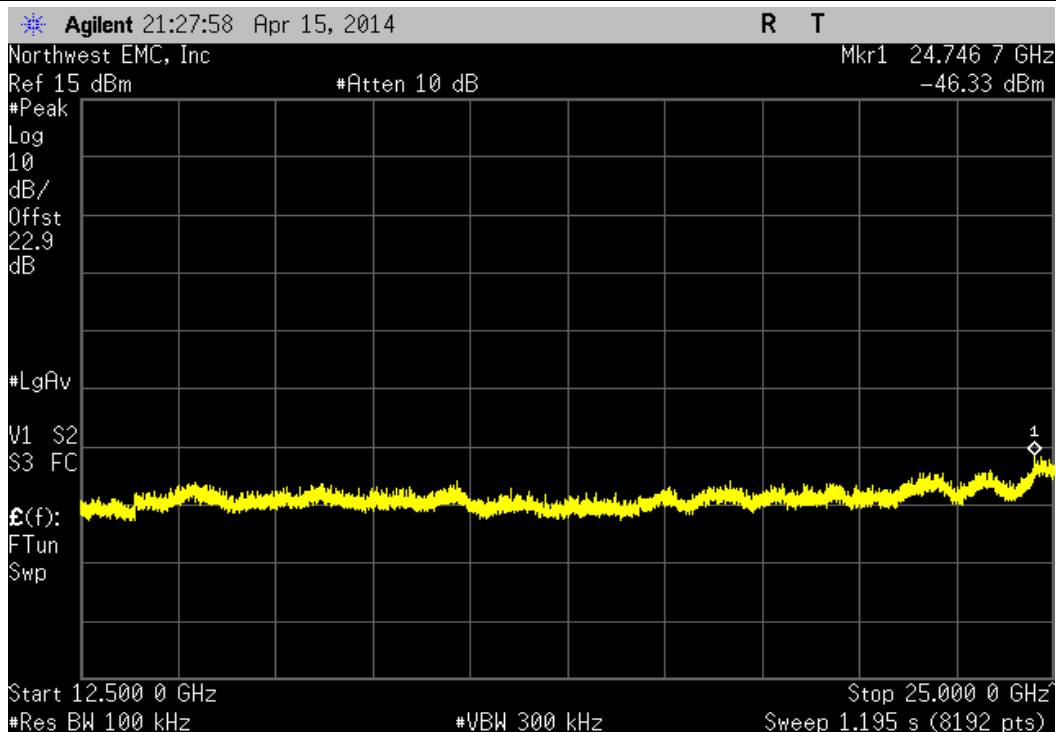
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



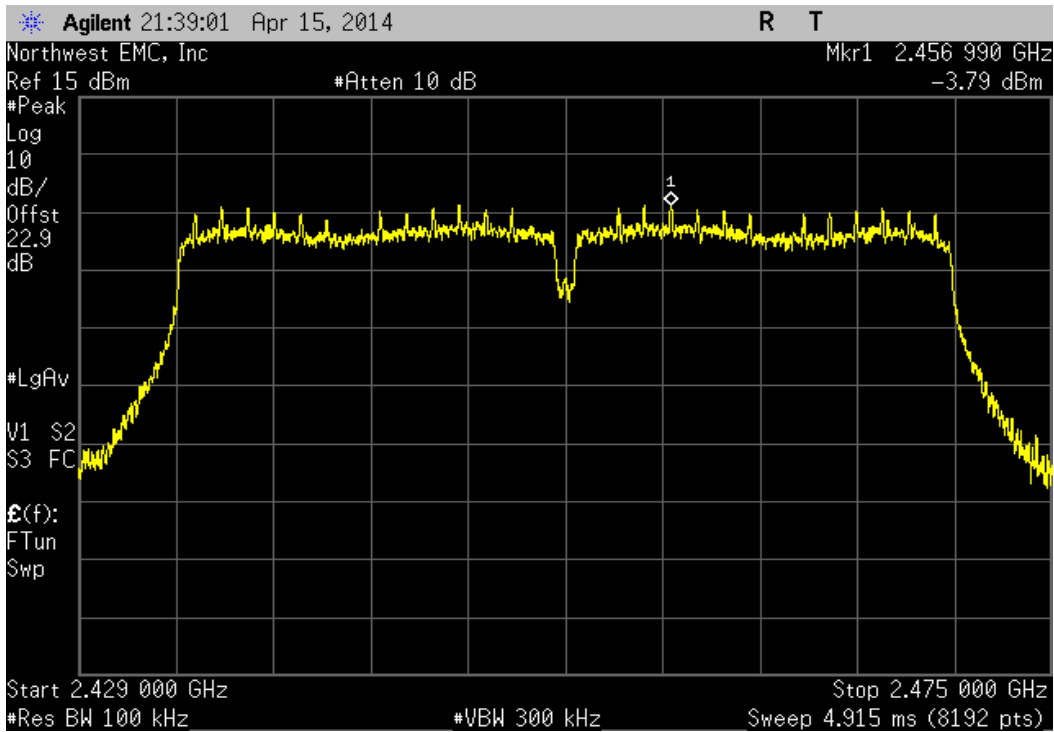
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-50.05 dBc	≤ -20 dBc	Pass



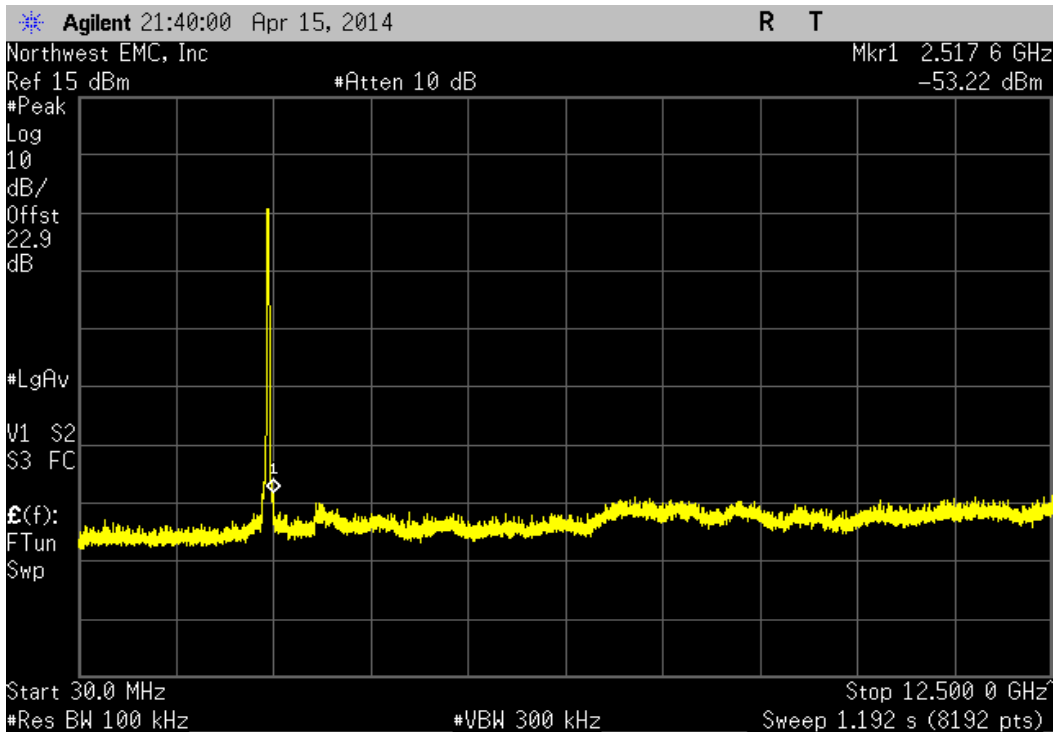
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-42.92 dBc	≤ -20 dBc	Pass



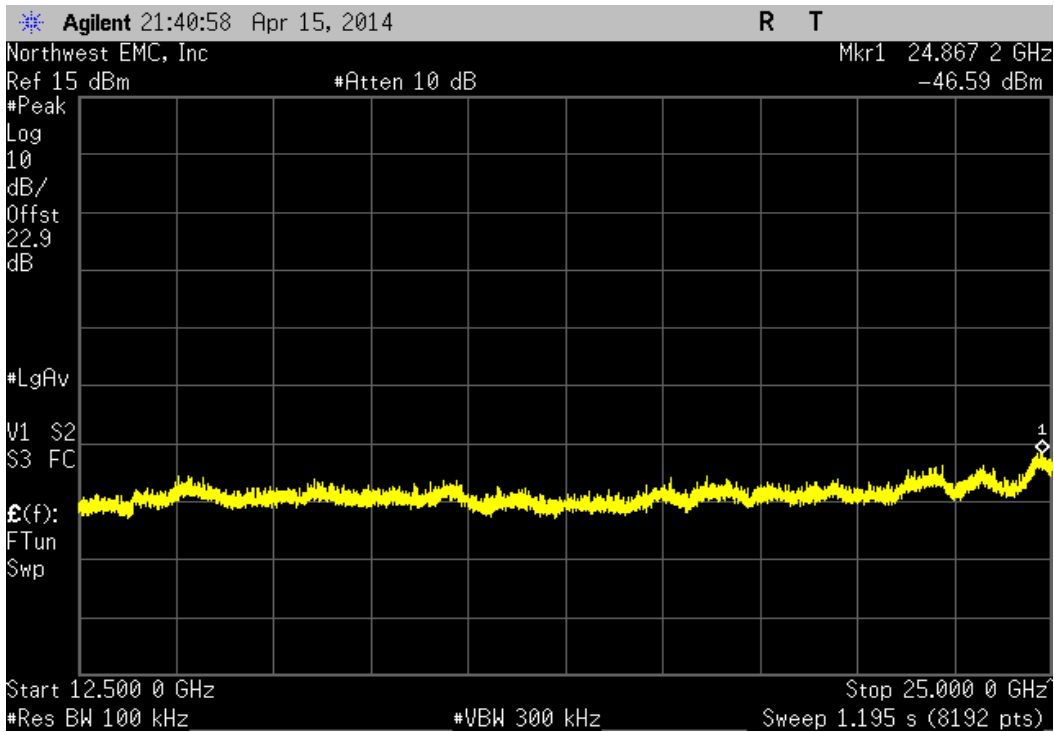
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range		Value	Limit	Result		
	Fundamental	N/A	N/A	N/A		



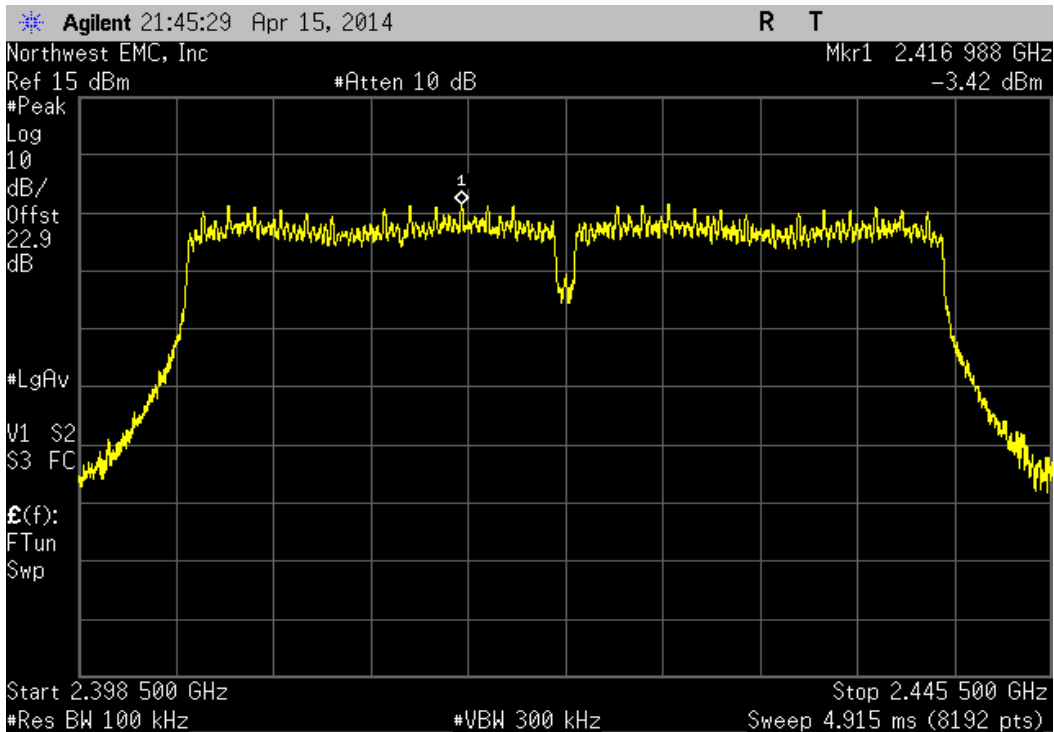
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range		Value	Limit	Result		
	30 MHz - 12.5 GHz	-49.44 dBc	≤ -20 dBc	Pass		



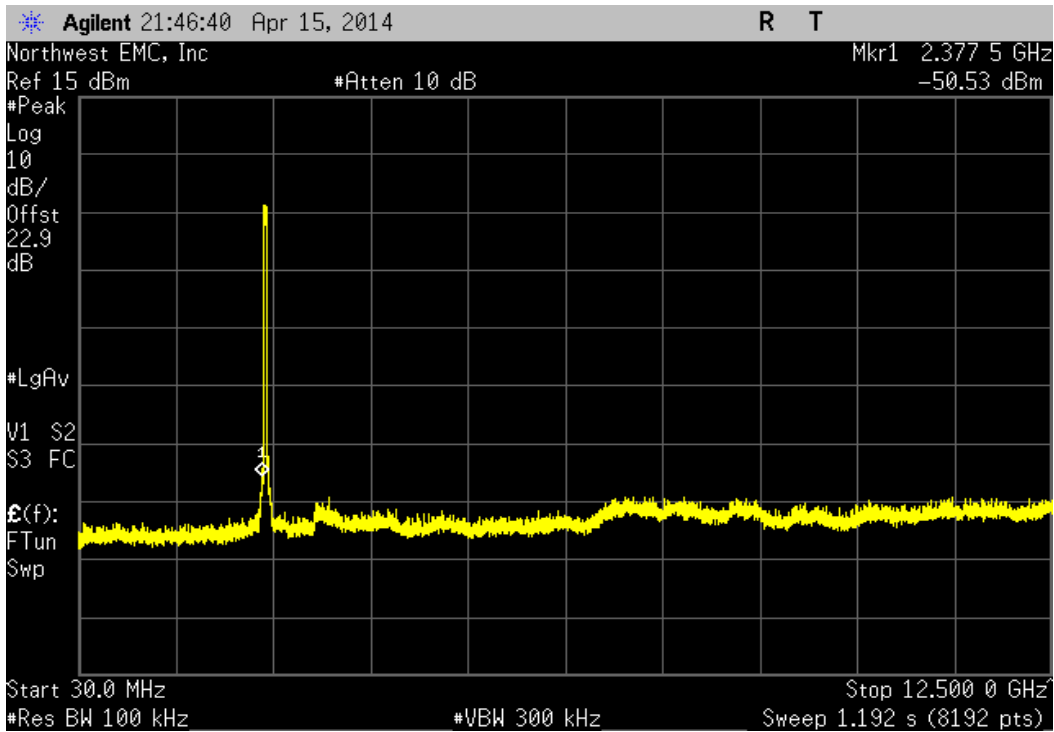
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-42.8 dBc	≤ -20 dBc	Pass



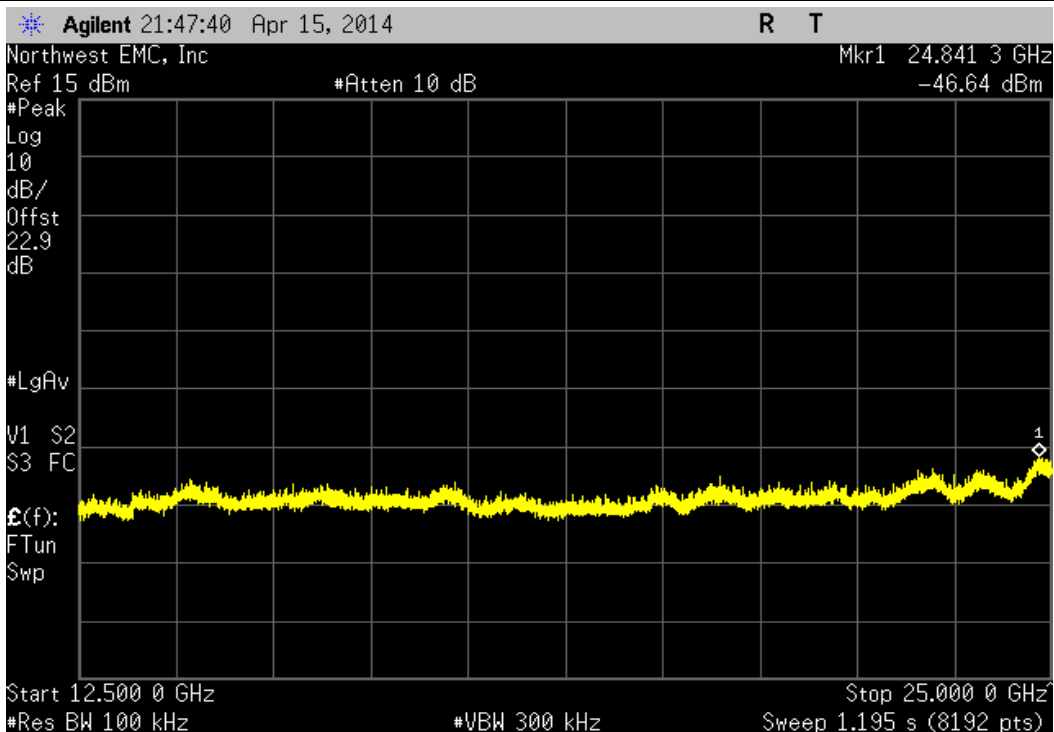
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



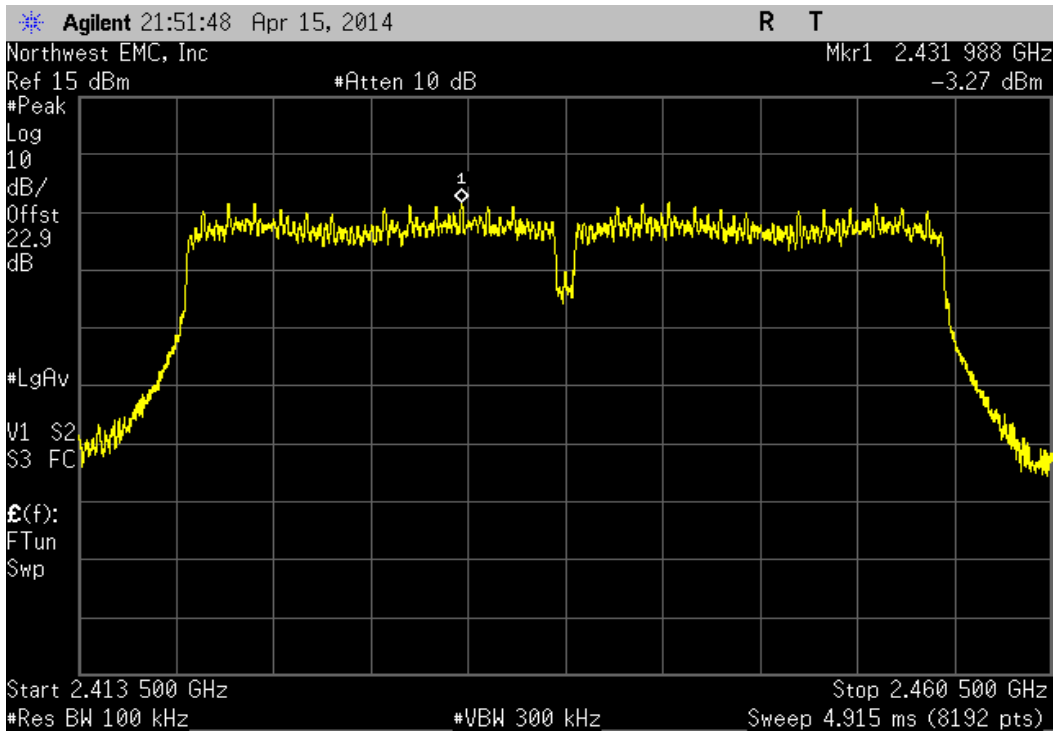
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-47.11 dBc	≤ -20 dBc	Pass



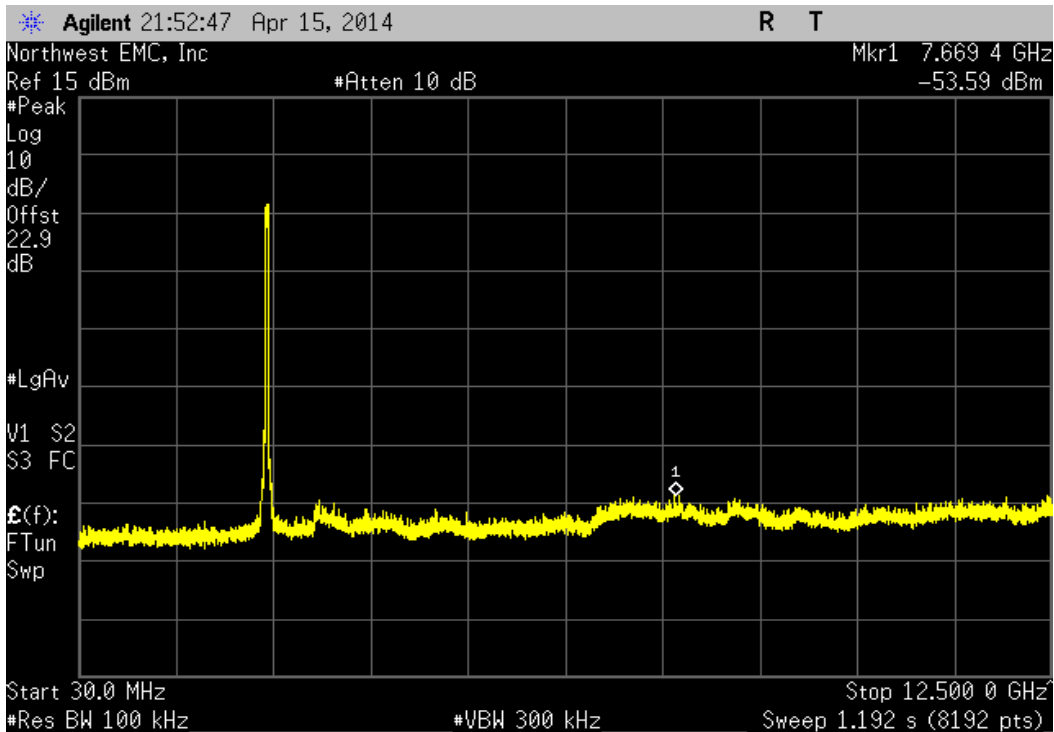
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.22 dBc	≤ -20 dBc	Pass



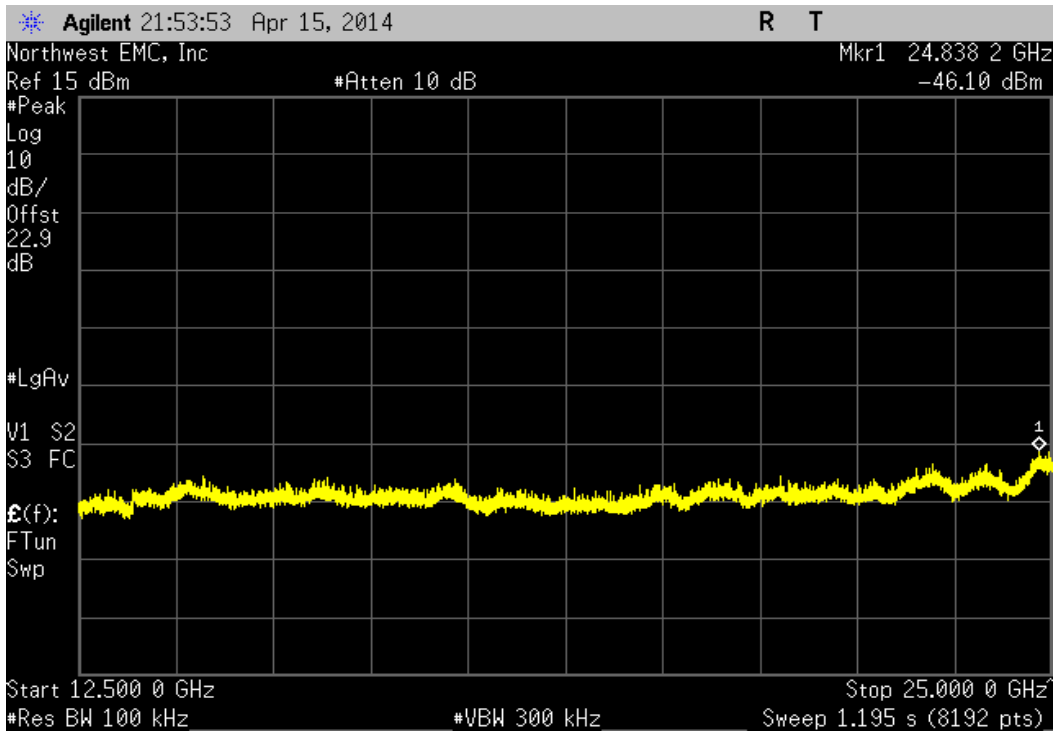
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



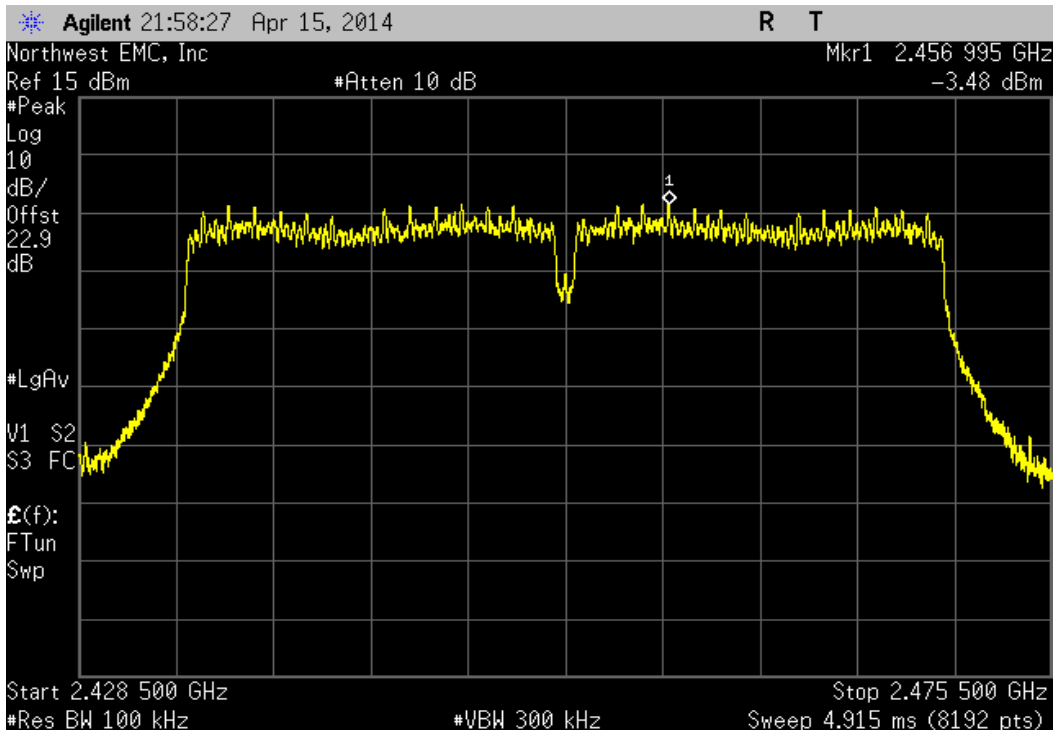
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-50.32 dBc	≤ -20 dBc	Pass		



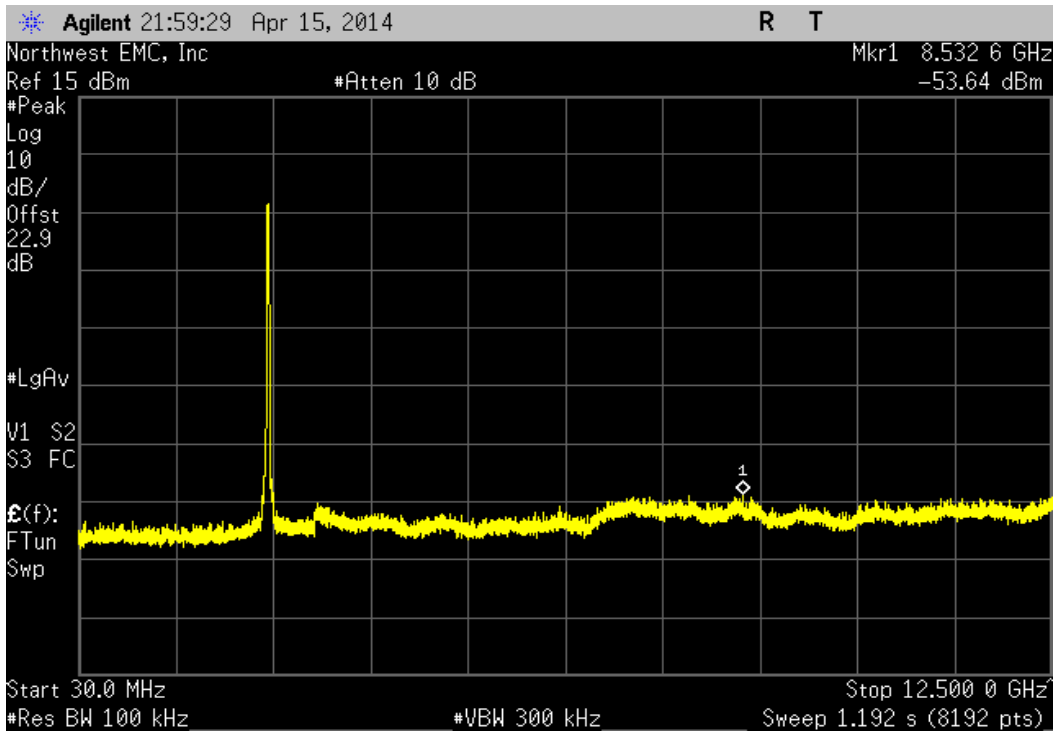
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-42.83 dBc	≤ -20 dBc	Pass



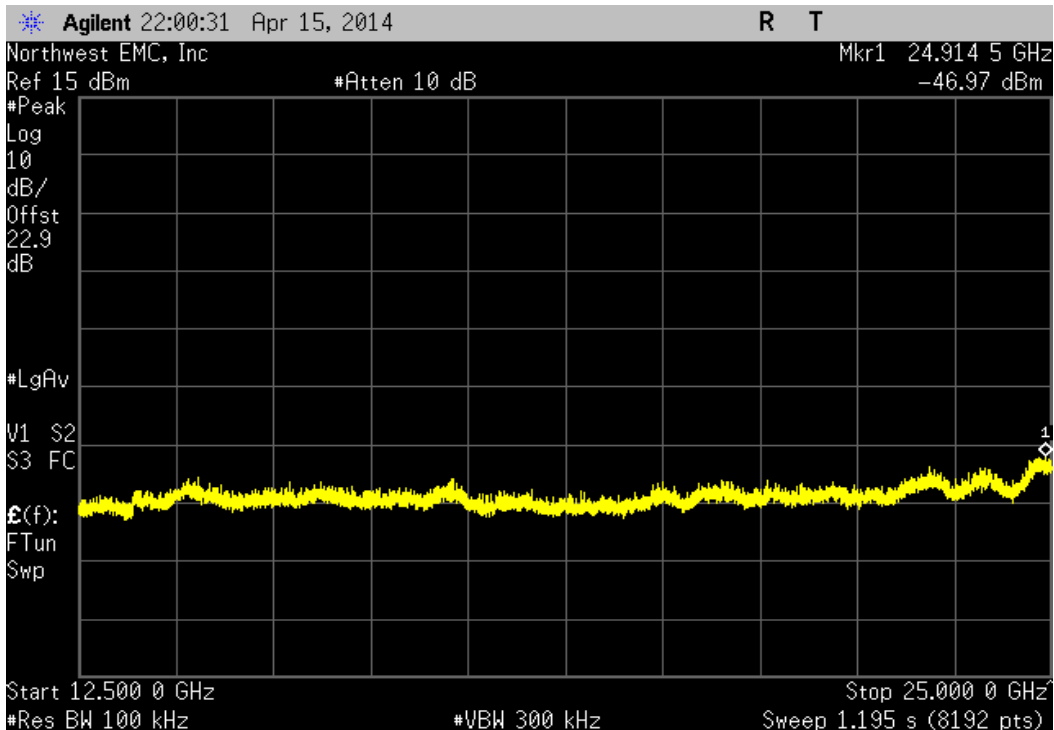
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



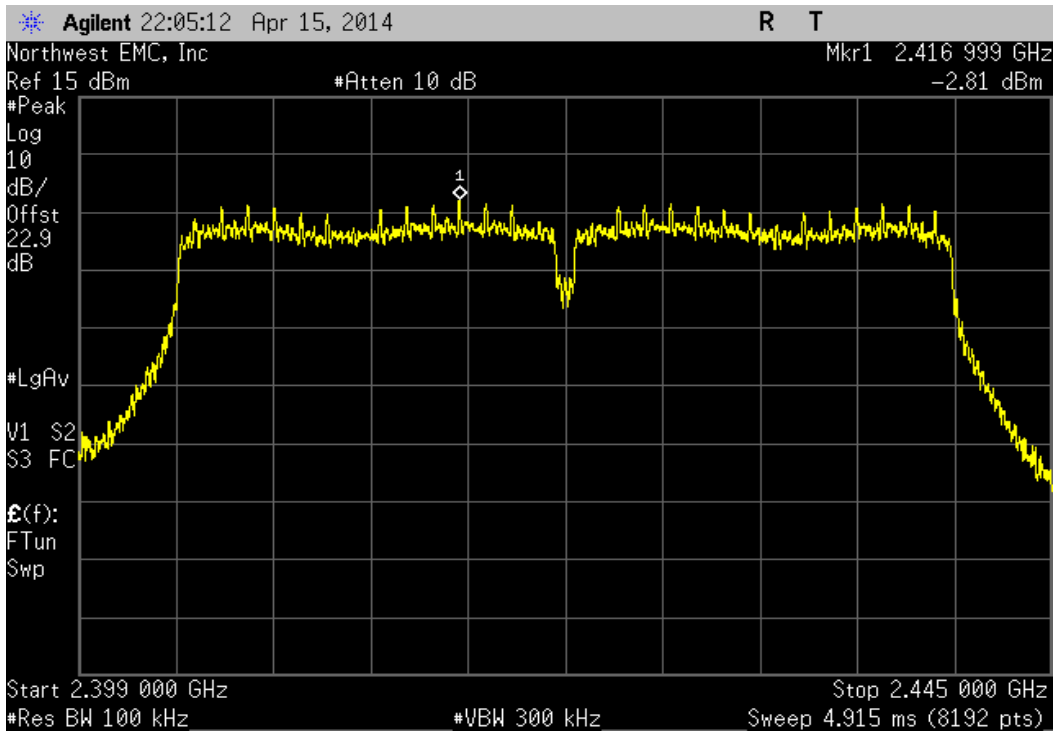
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-50.15 dBc	≤ -20 dBc	Pass



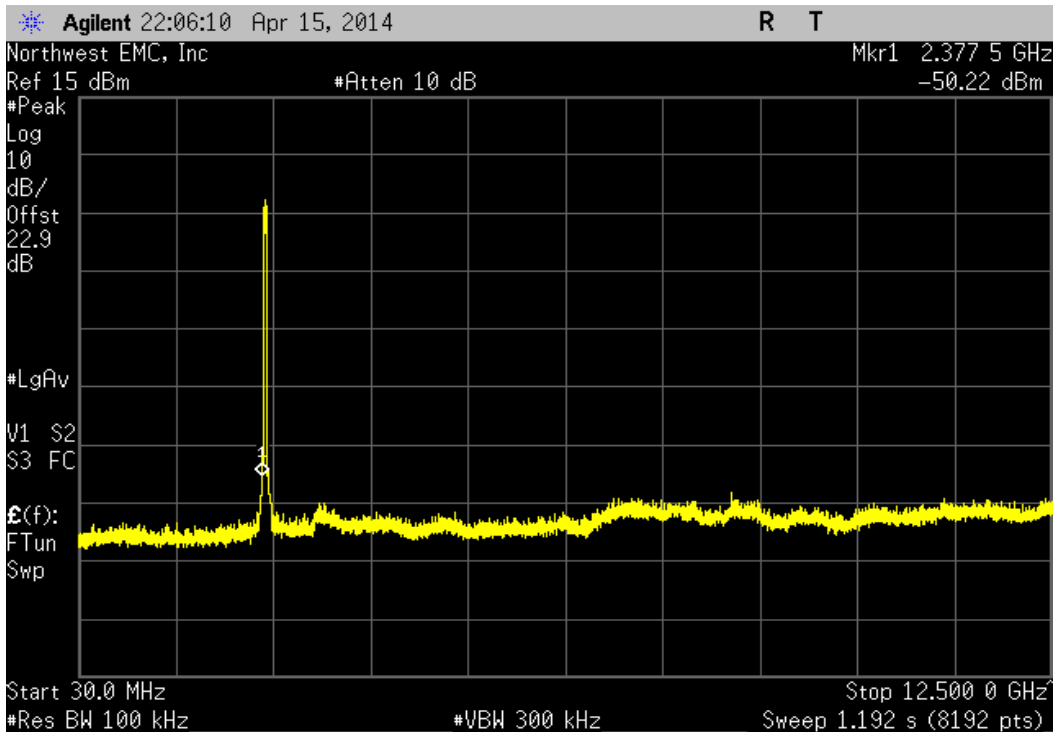
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.48 dBc	≤ -20 dBc	Pass



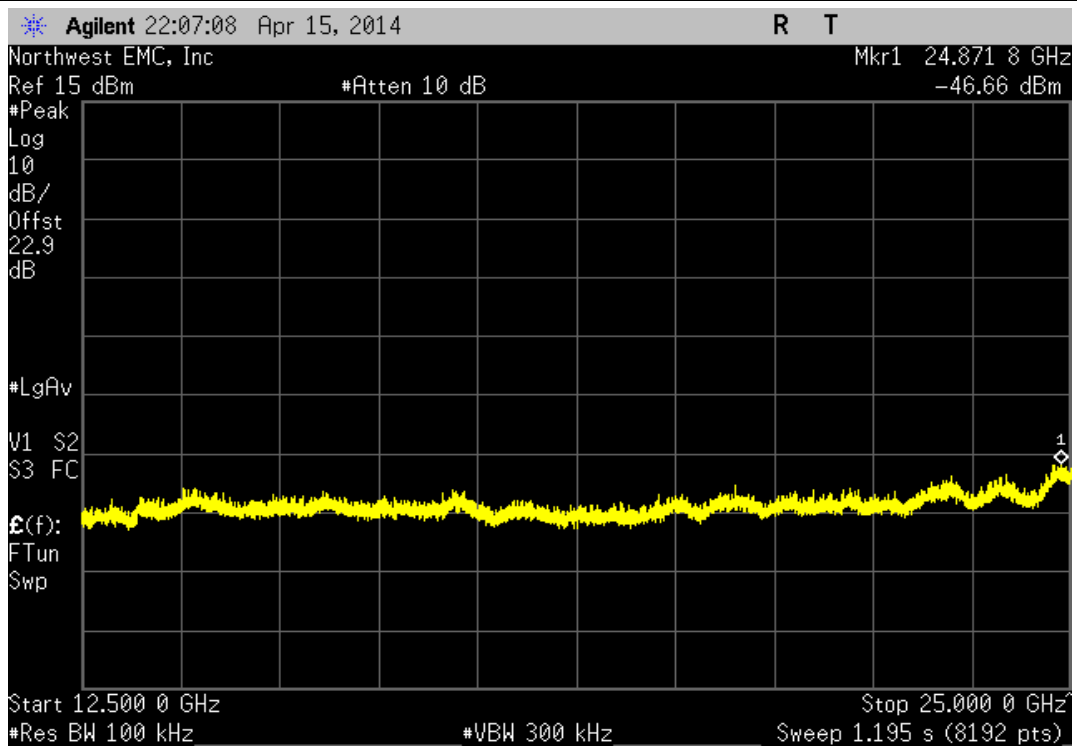
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



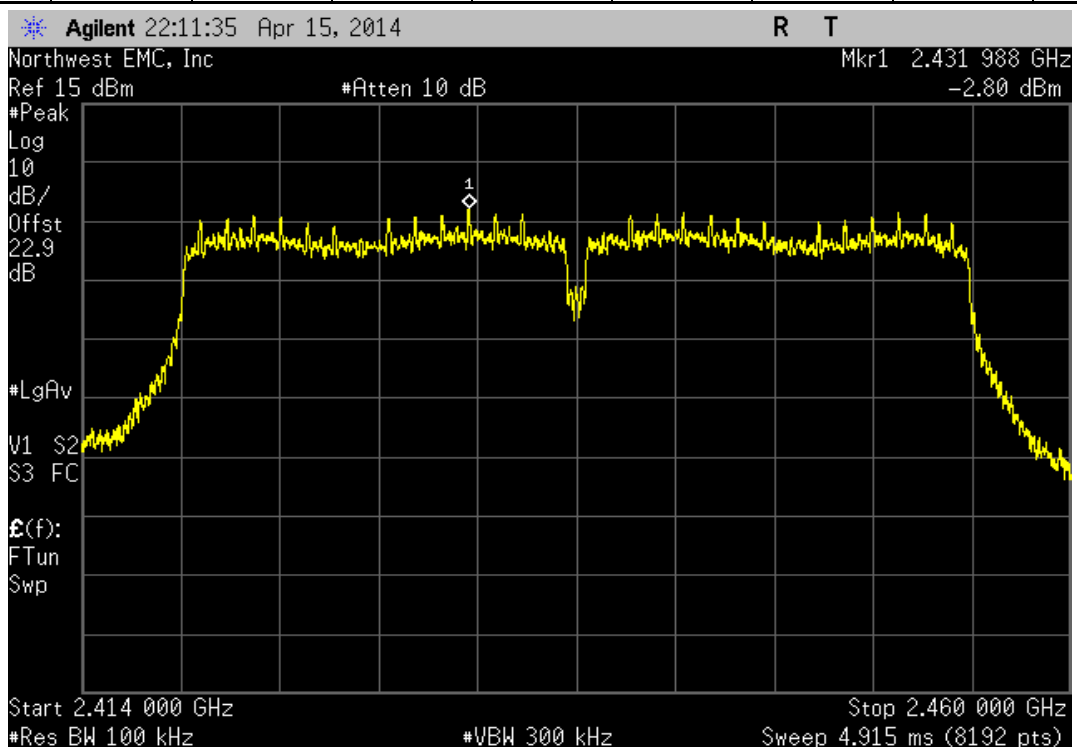
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-47.41 dBc	≤ -20 dBc	Pass		



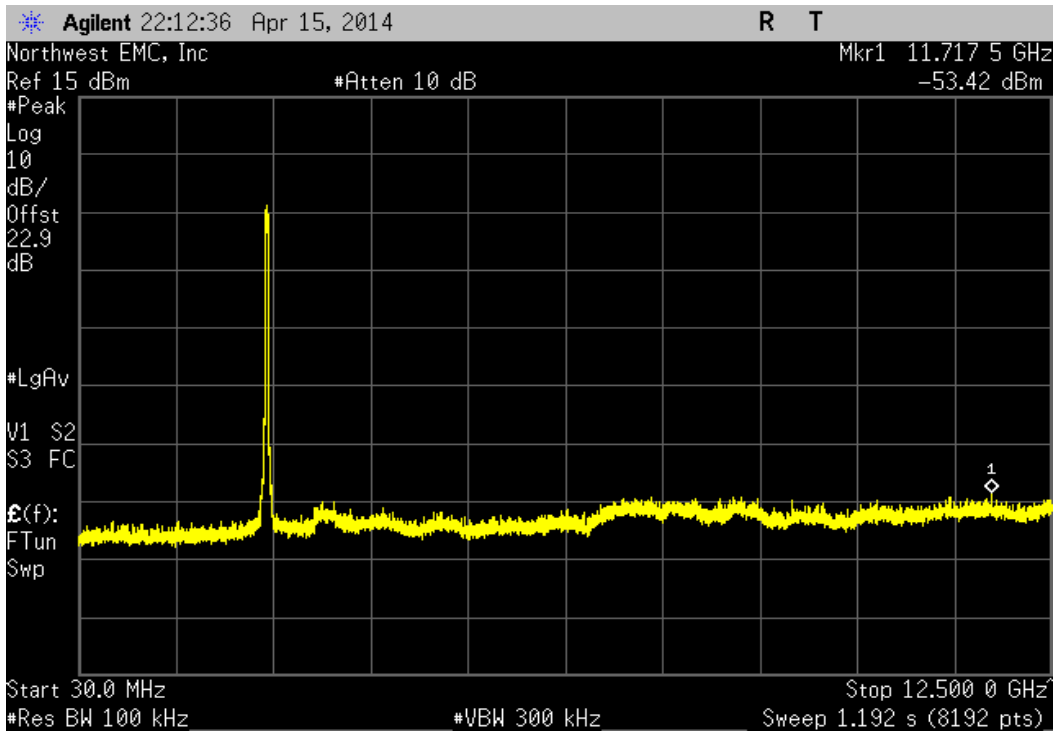
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.85 dBc	≤ -20 dBc	Pass	



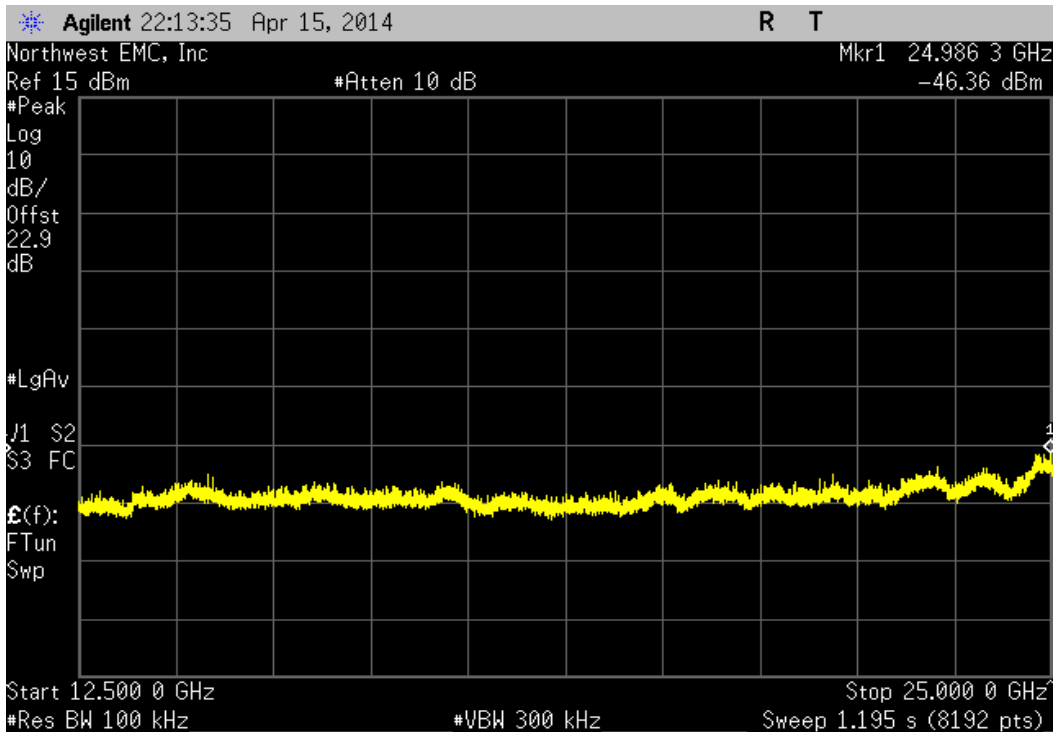
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



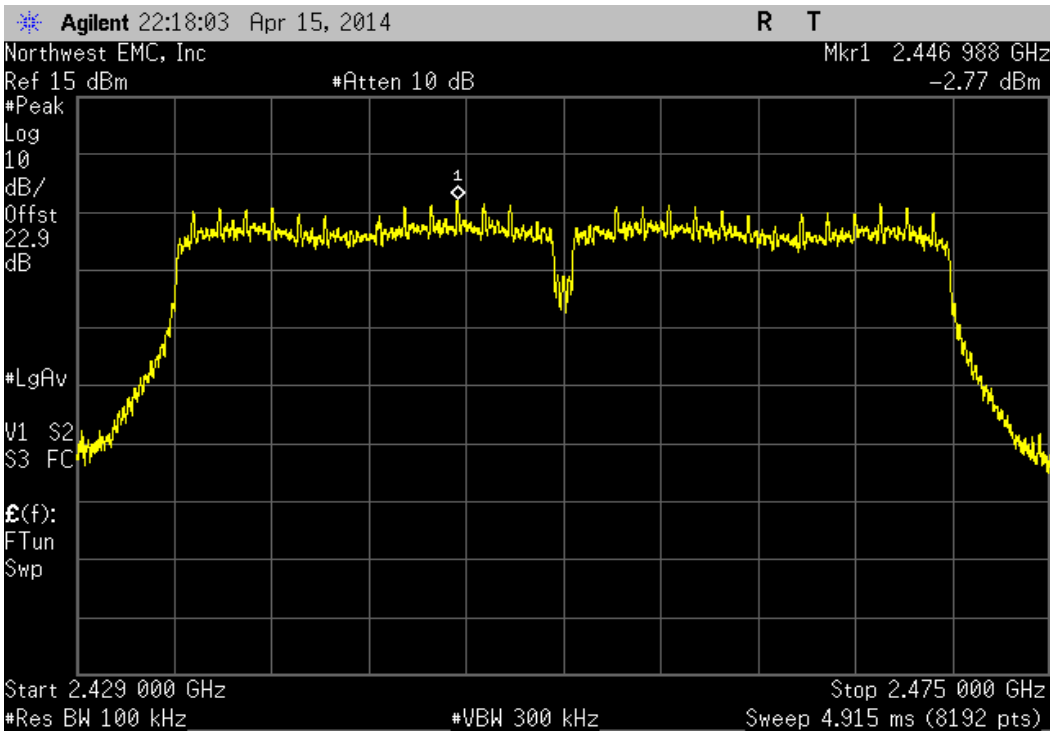
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-50.62 dBc	≤ -20 dBc	Pass



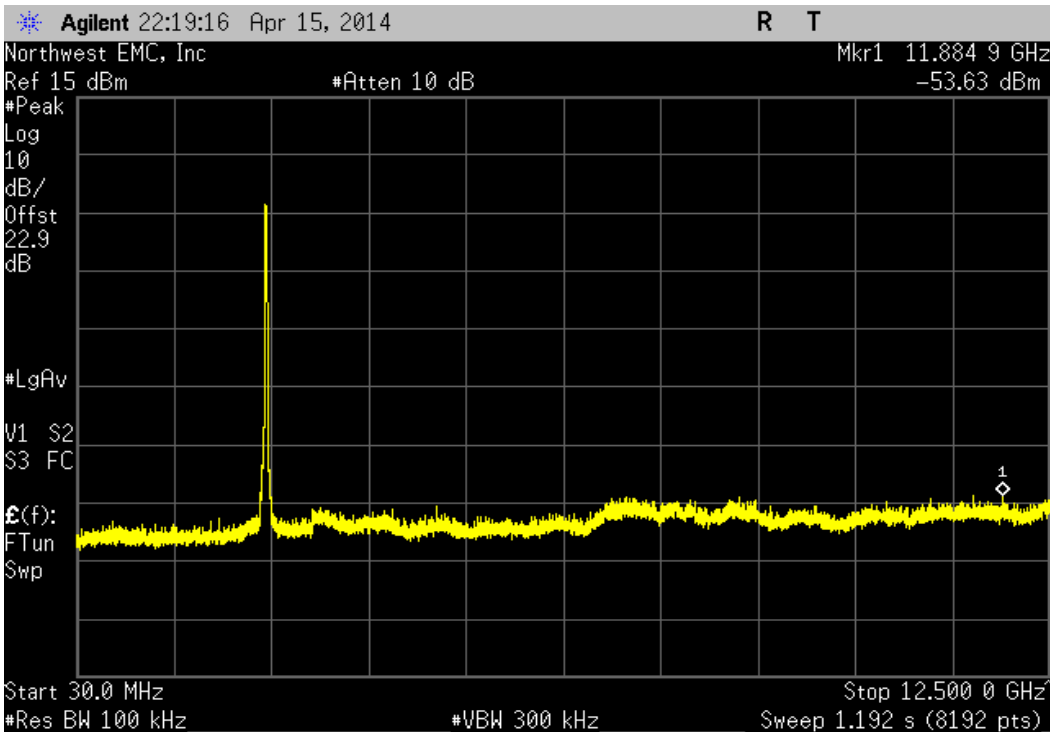
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.56 dBc	≤ -20 dBc	Pass



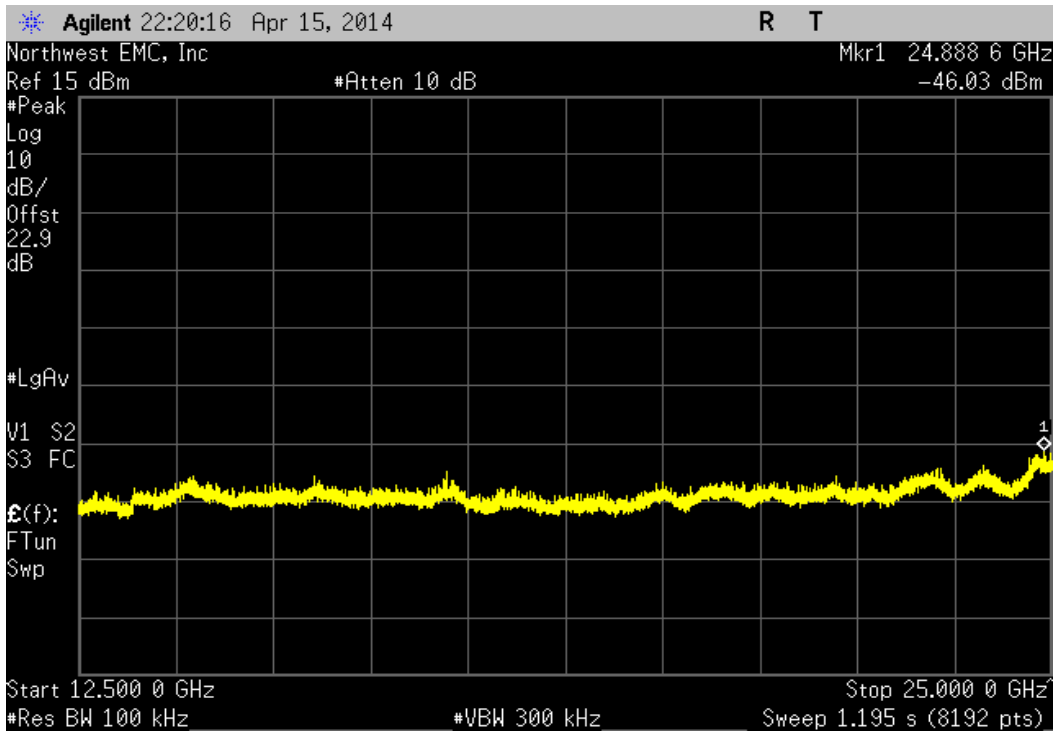
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



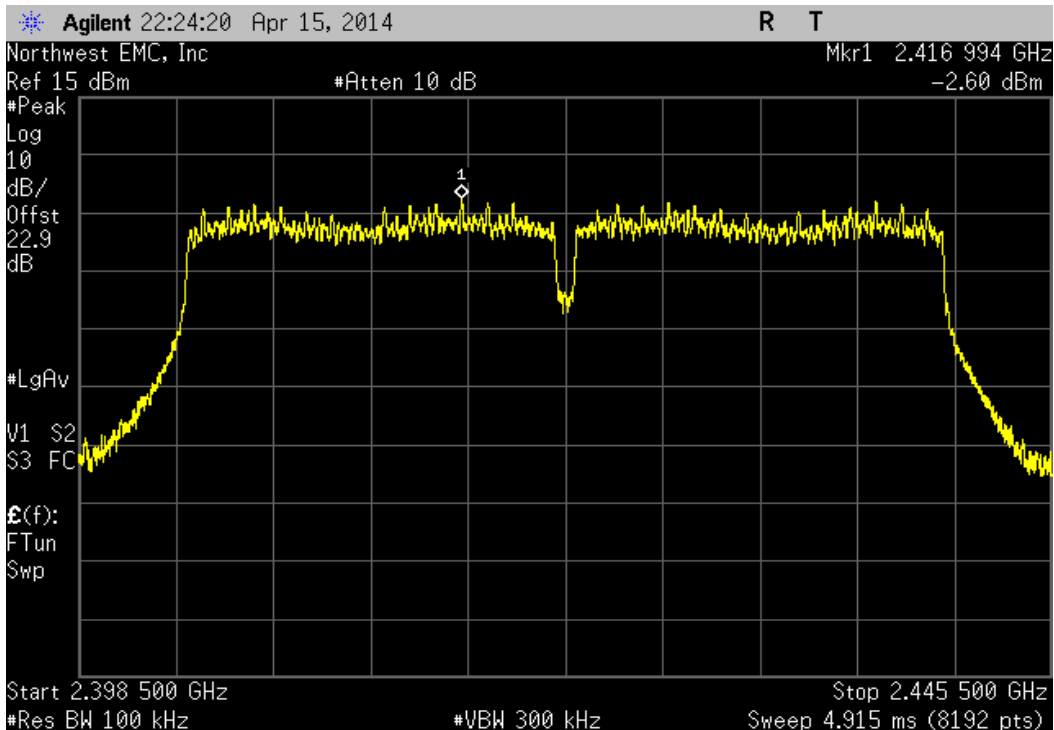
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-50.86 dBc	≤ -20 dBc	Pass		



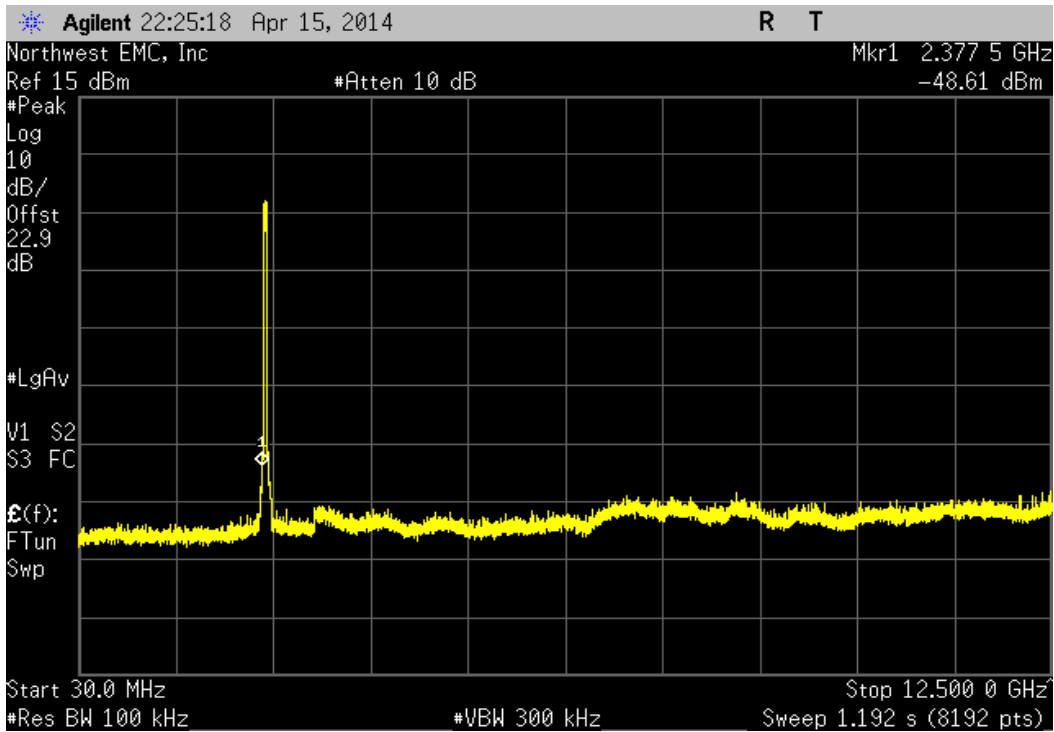
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.27 dBc	≤ -20 dBc	Pass



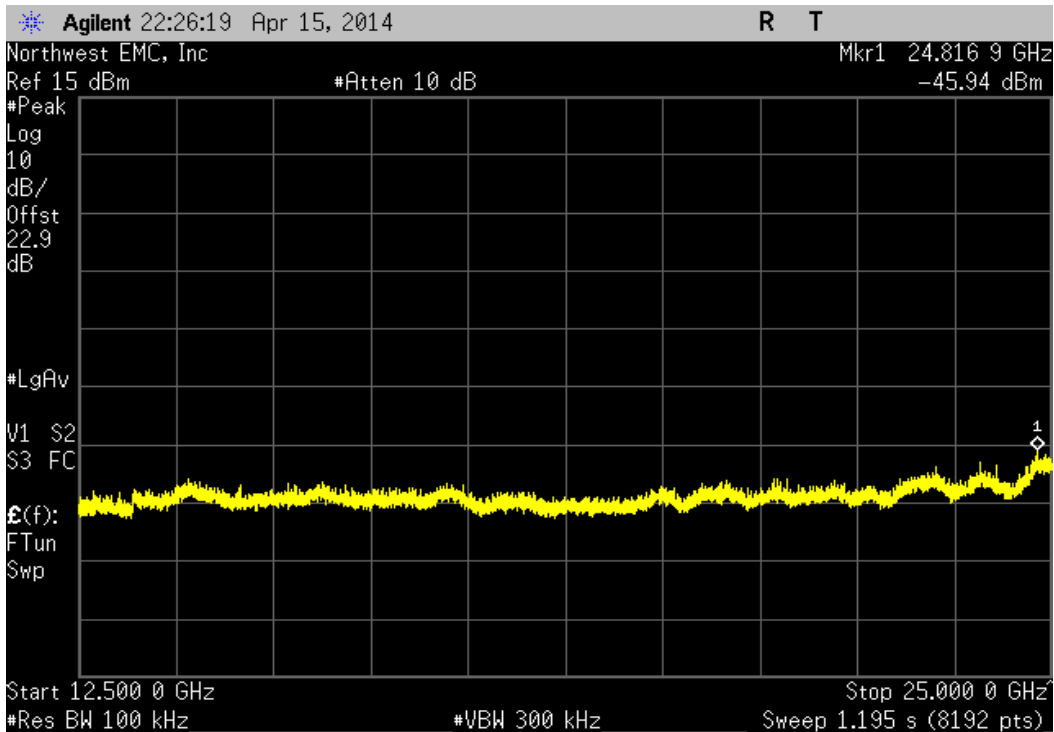
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



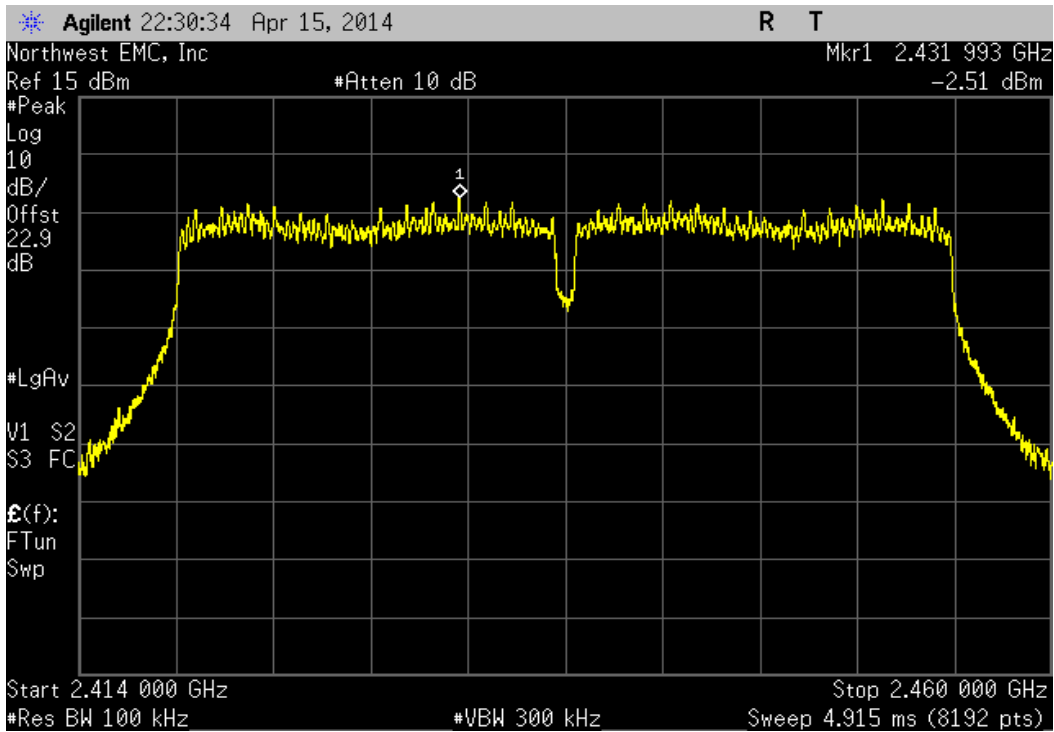
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-46.01 dBc	≤ -20 dBc	Pass



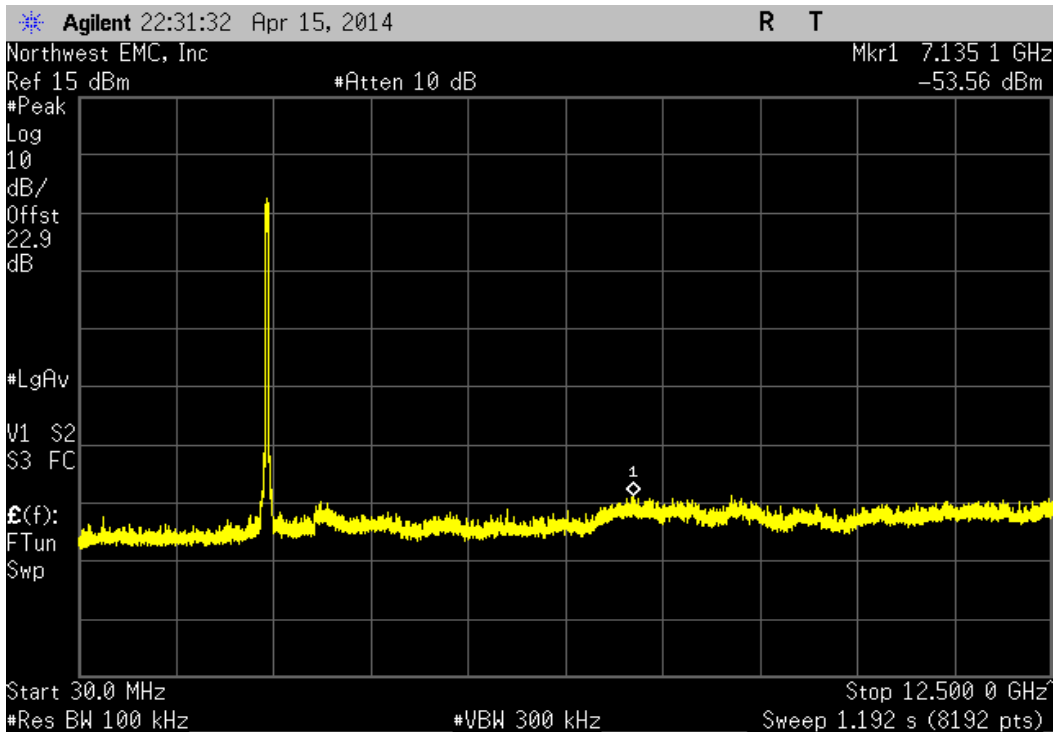
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.34 dBc	≤ -20 dBc	Pass



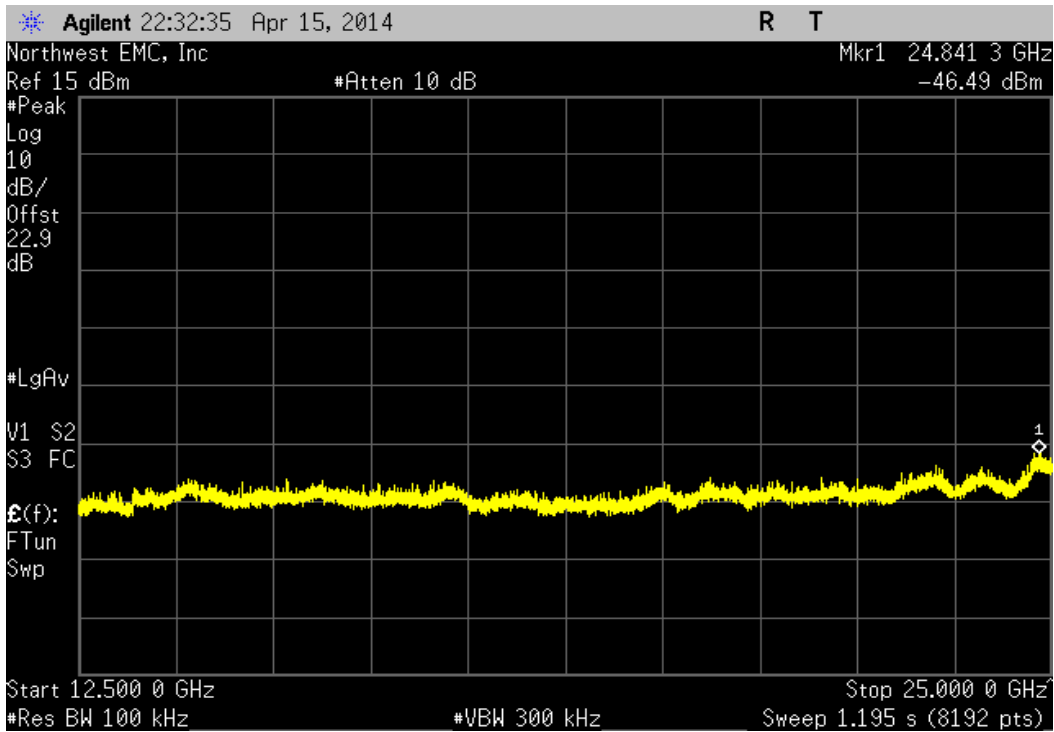
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



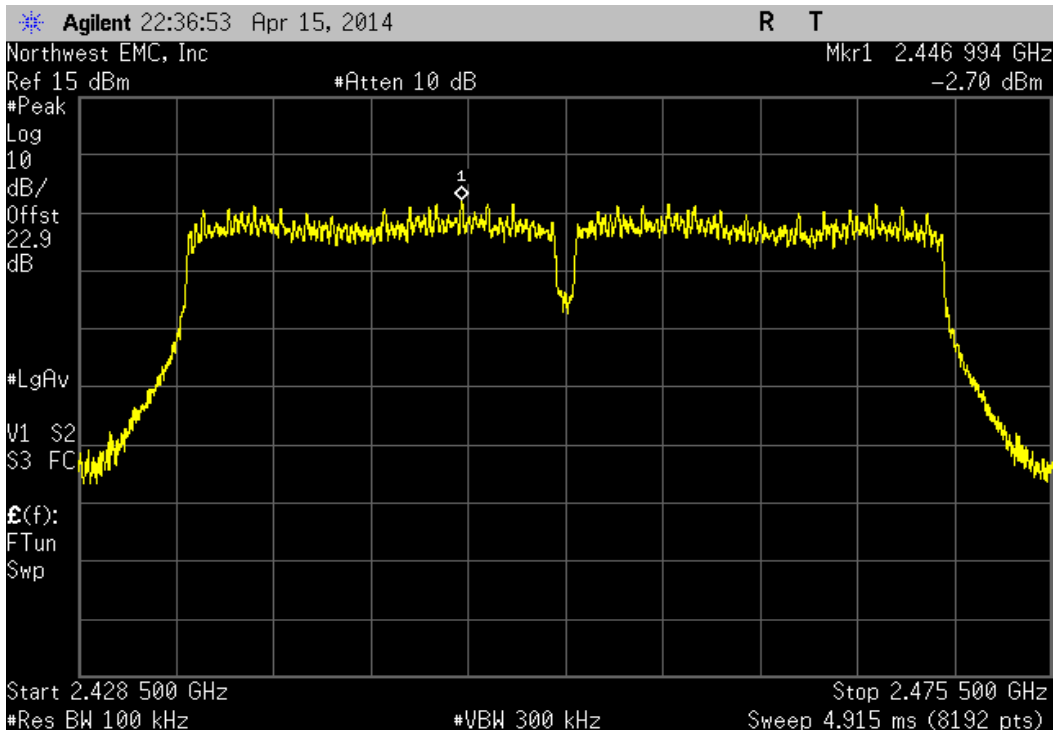
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-51.05 dBc	≤ -20 dBc	Pass		



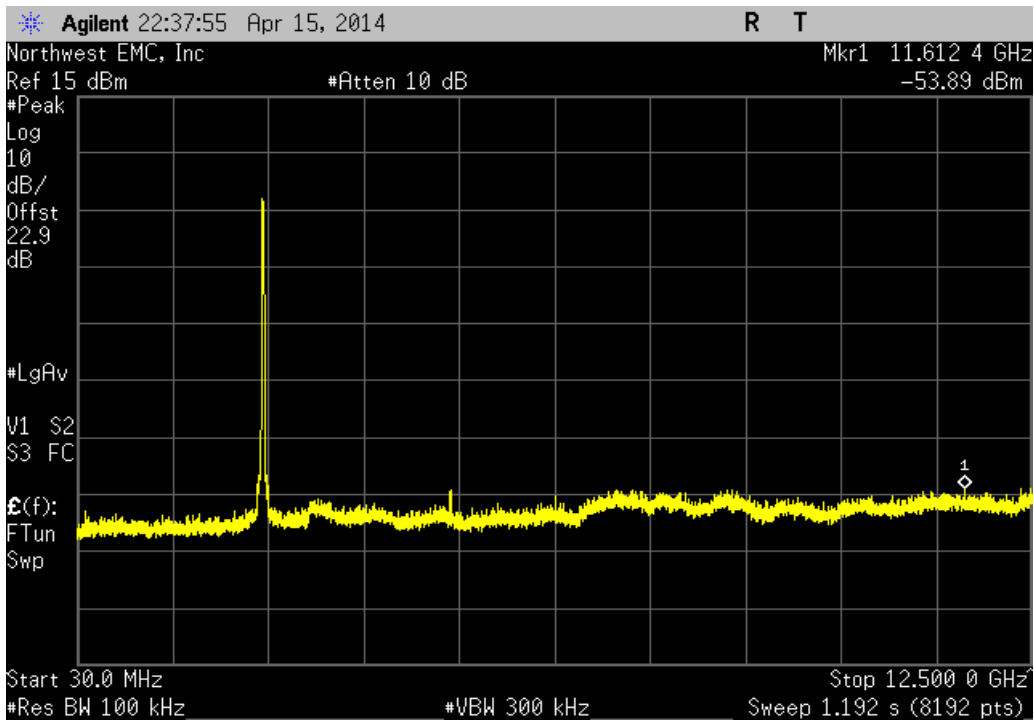
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.98 dBc	≤ -20 dBc	Pass



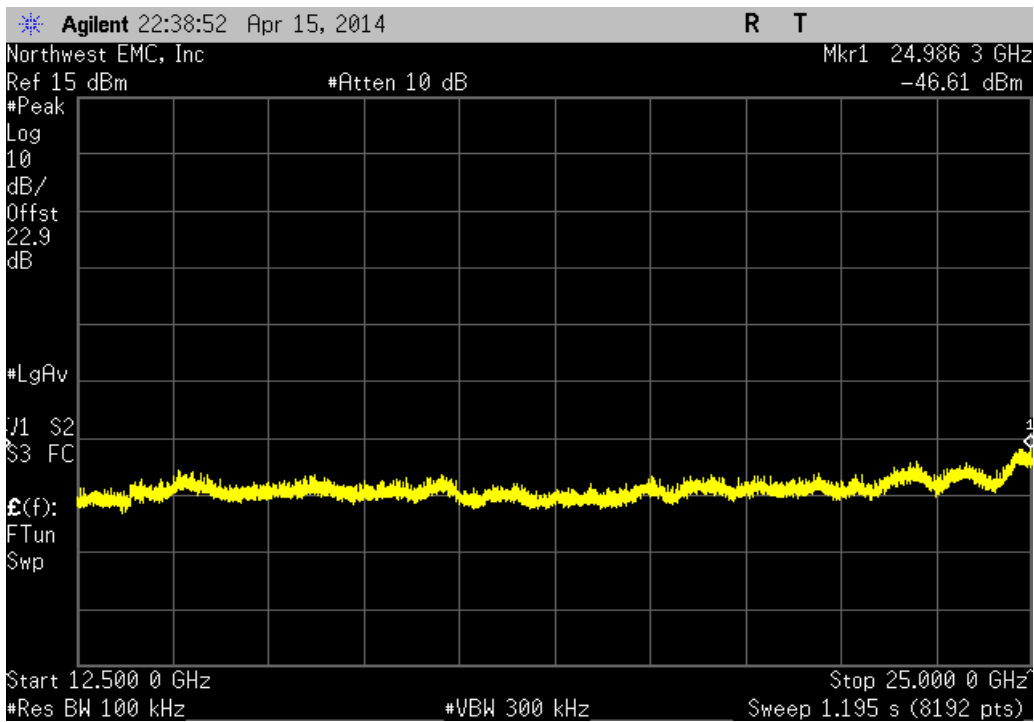
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-51.19 dBc	≤ -20 dBc	Pass



Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.91 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

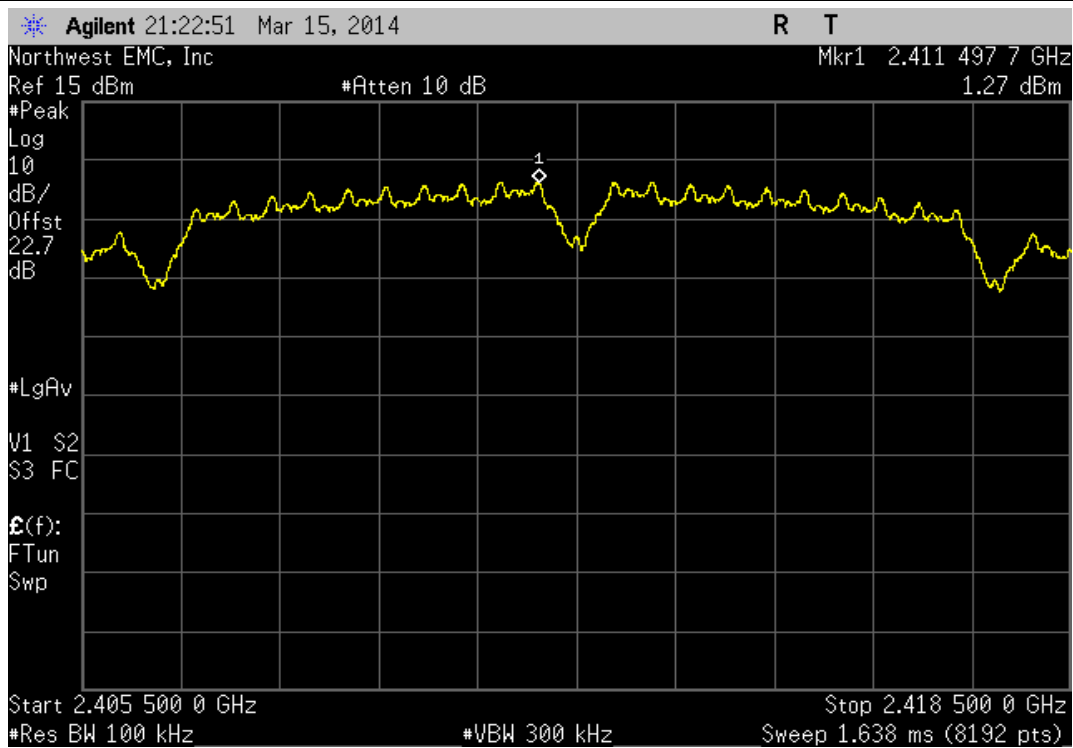
Description	Manufacturer	Model	ID	Last Cal.	Interval (mo.)
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	2/3/2014	12
MXG Analog Signal Generator	Agilent	N5181A	TIG	NCR	0
Power Meter	Gigatronics	8651A	SPM	11/26/2013	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24

TEST DESCRIPTION

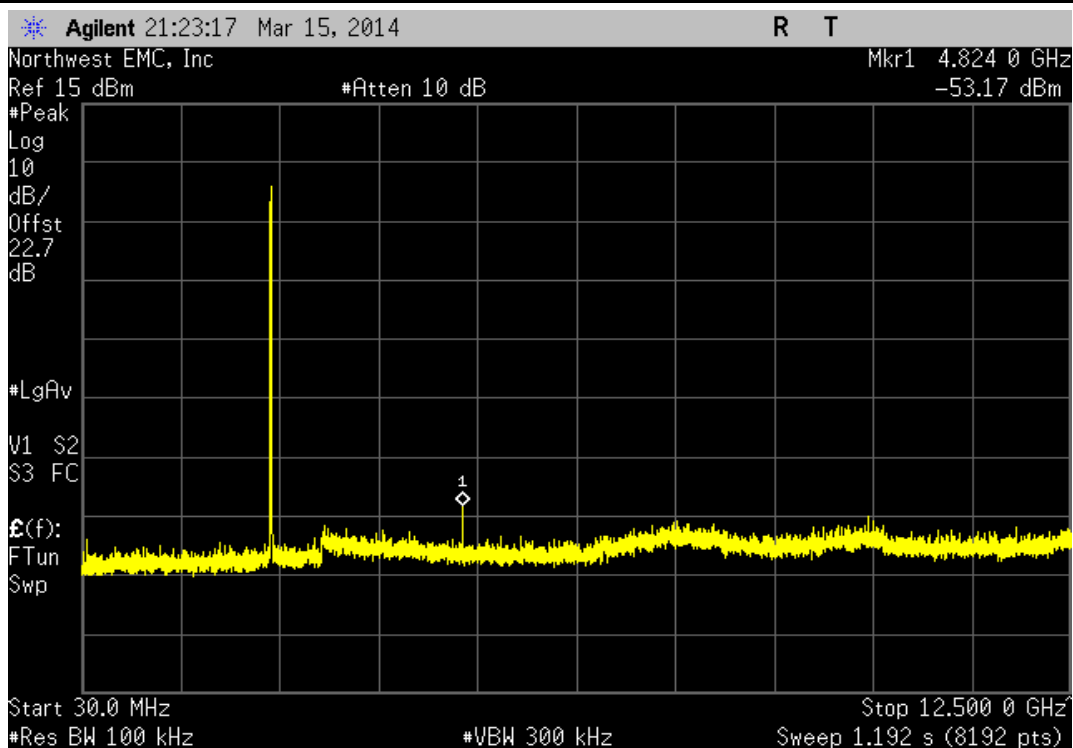
The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

EUT: Model 1631		Work Order: MCSO1698		
Serial Number: 041148340753		Date: 03/22/14		
Customer: Microsoft Corporation		Temperature: 21.5°C		
Attendees: None		Humidity: 29%		
Project: 1631		Barometric Pres.: 1007		
Tested by: Brandon Hobbs, Jared Ison		Power: 110VAC/60Hz		
Job Site: EV06		Test Method		
FCC 15.247:2014		ANSI C63.10:2009		
COMMENTS				
Modes of operation tested were client provided.				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration #	1	Signature 		
	Frequency Range	Value	Limit	Result
20 MHz				
2400 MHz - 2483.5 MHz Band				
802.11(b) 1 Mbps				
Low Channel 1, 2412 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-54.44 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-54.16 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-52.4 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-55.41 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-51.46 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-56.83 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps				
Low Channel 1, 2412 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-54.25 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-54.29 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-60.13 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-55.03 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-58.85 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-56.89 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps				
Low Channel 1, 2412 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-54.37 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-53.22 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.44 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.08 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.9 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.24 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps				
Low Channel 1, 2412 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-55.29 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.1 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.67 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-53.51 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.91 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.69 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps				
Low Channel 1, 2412 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-56.32 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-51.57 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.55 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.59 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.51 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-54.98 dBc	≤ -20 dBc	Pass
802.11(n) MCS0				
Low Channel 1, 2412 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-54.05 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.06 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.94 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-57.45 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-53.36 dBc	≤ -20 dBc	Pass
802.11(n) MCS7				
Low Channel 1, 2412 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-54.64 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.67 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-57.67 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-54.63 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-56.49 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-53.53 dBc	≤ -20 dBc	Pass

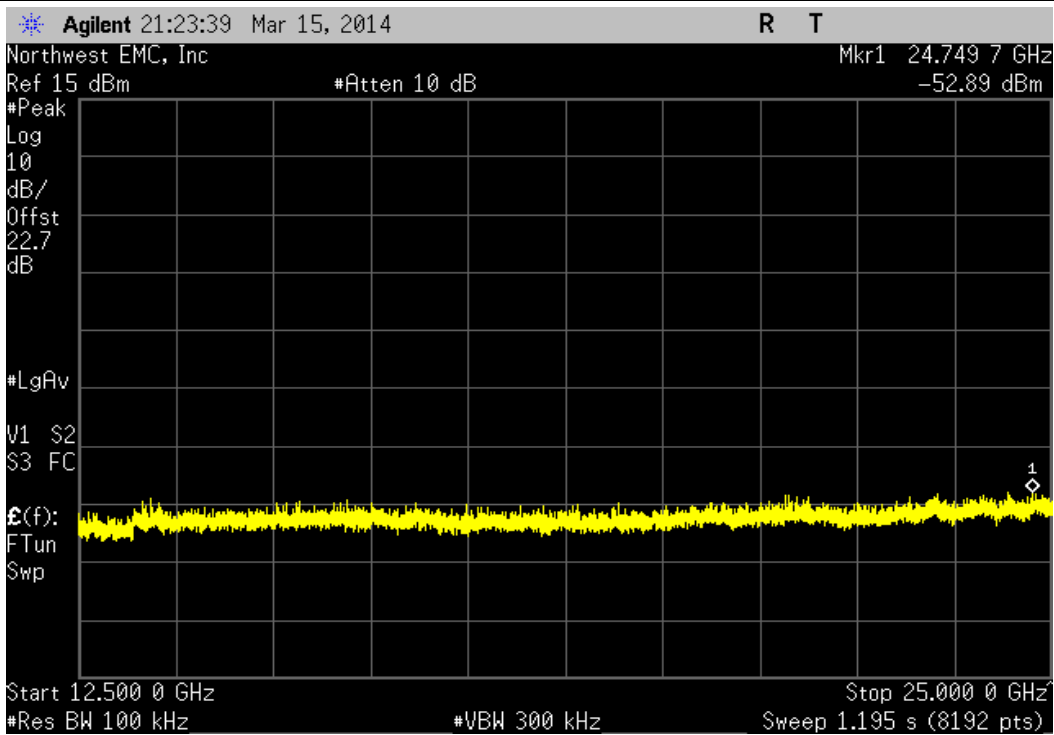
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency		Value	Limit	Result		
Range						
Fundamental		N/A	N/A	N/A		



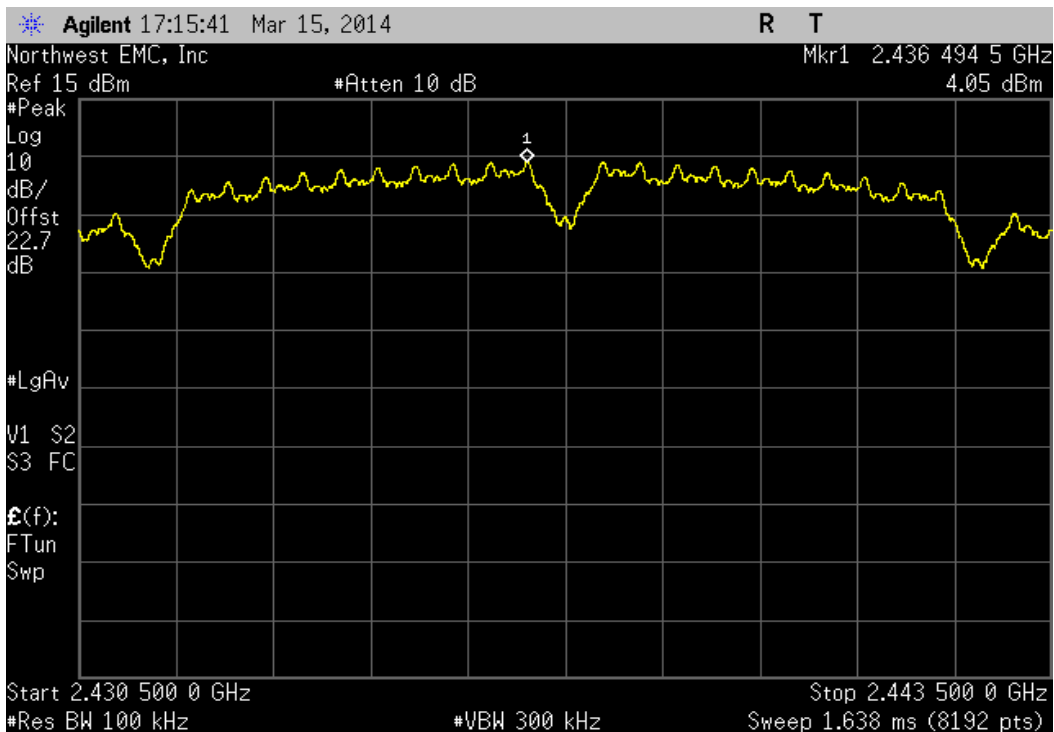
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency		Value	Limit	Result		
Range						
30 MHz - 12.5 GHz		-54.44 dBc	≤ -20 dBc	Pass		



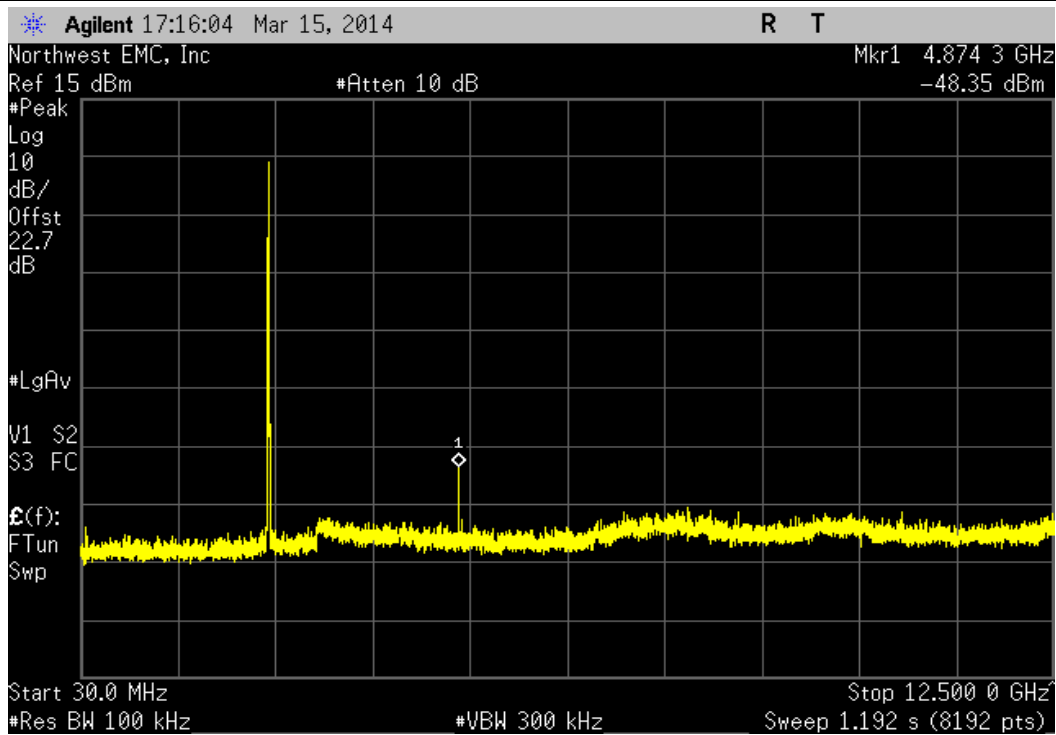
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.16 dBc	≤ -20 dBc	Pass



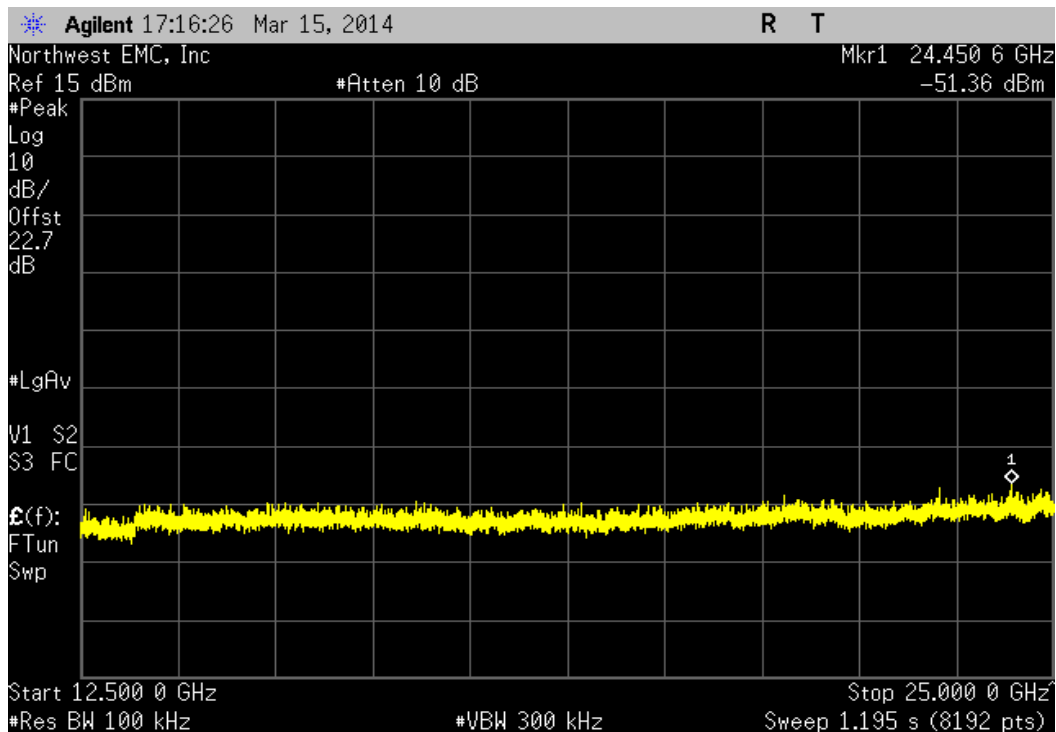
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



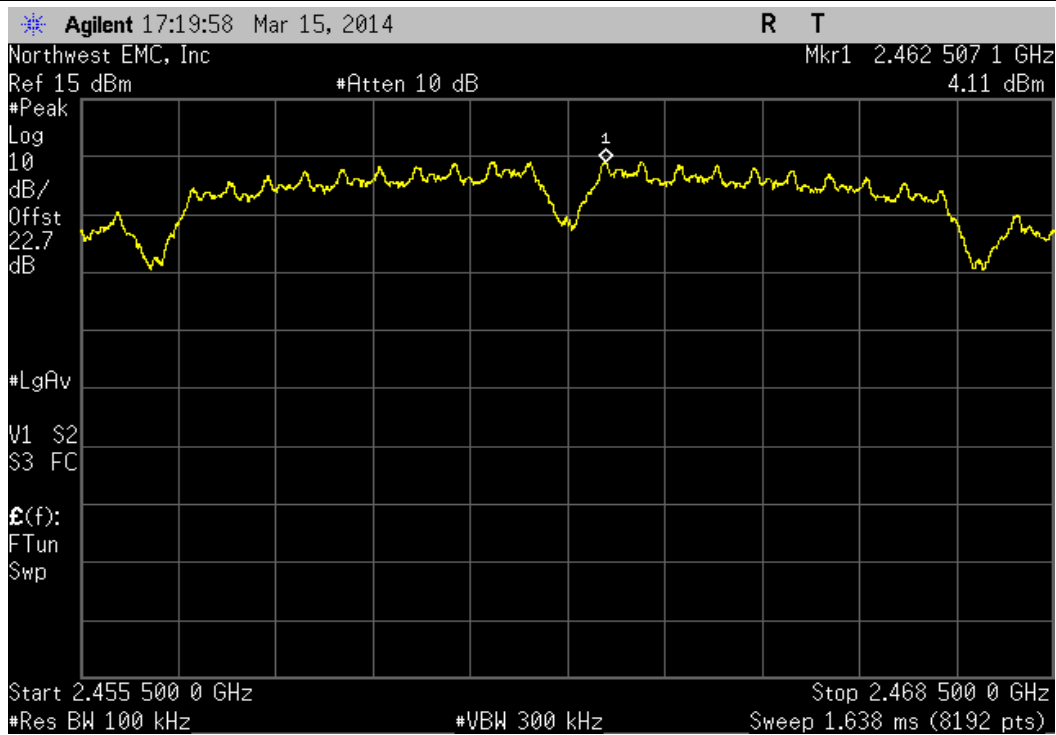
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.4 dBc	≤ -20 dBc	Pass



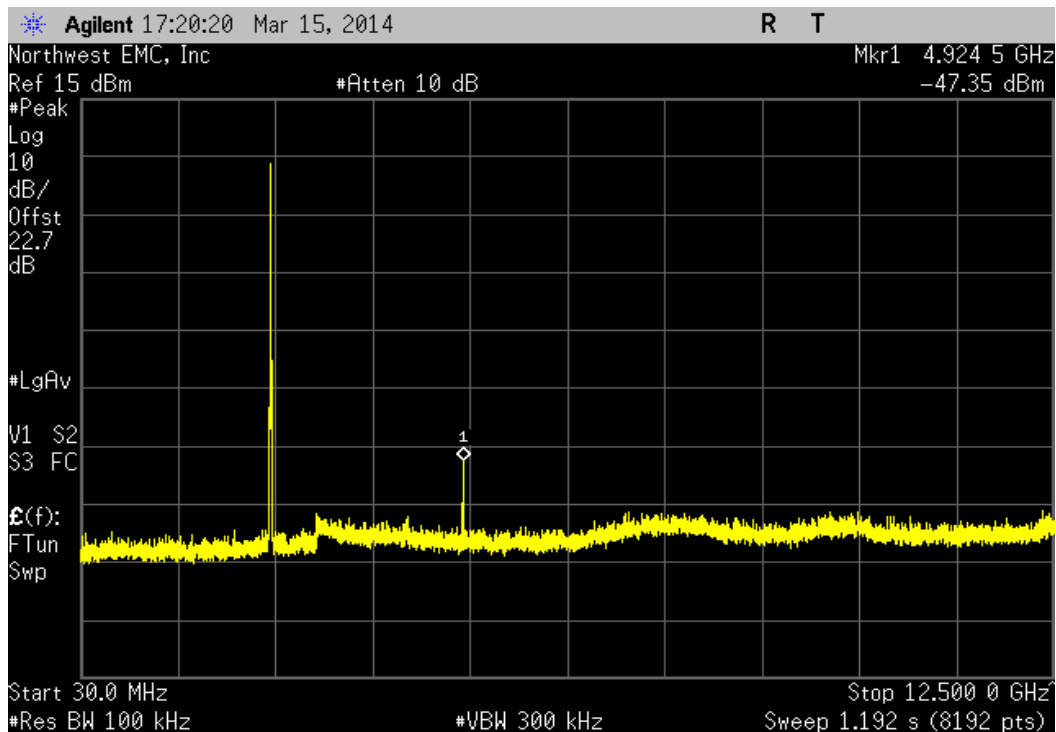
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-55.41 dBc	≤ -20 dBc	Pass



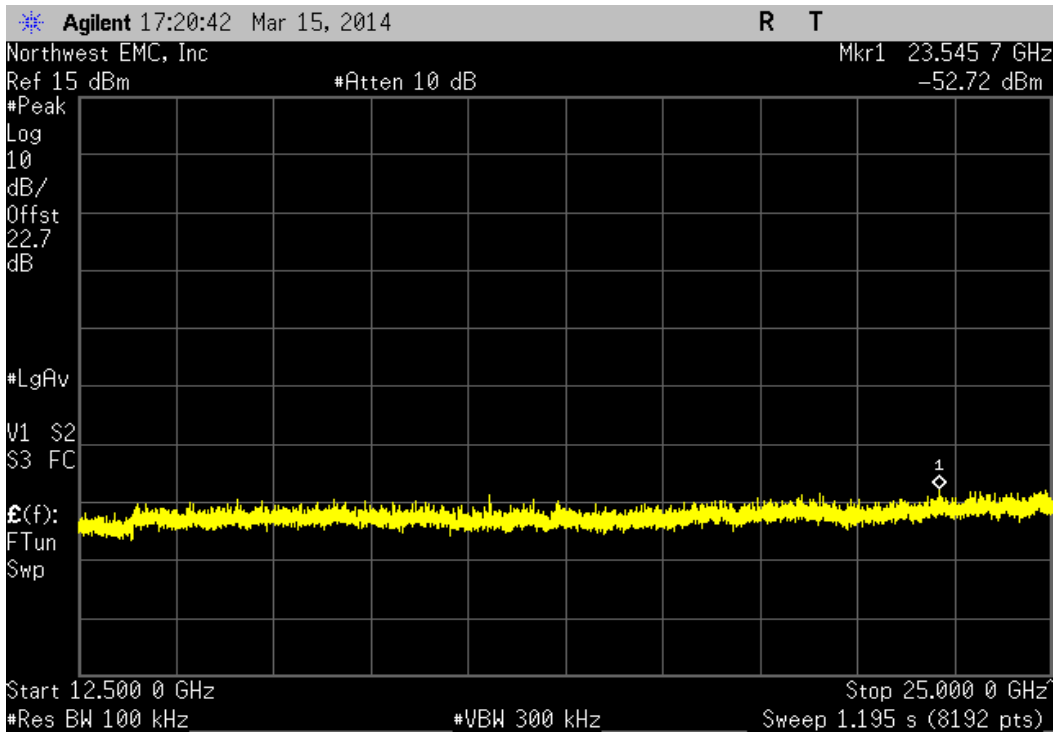
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range			Value	Limit	Result	
Fundamental			N/A	N/A	N/A	



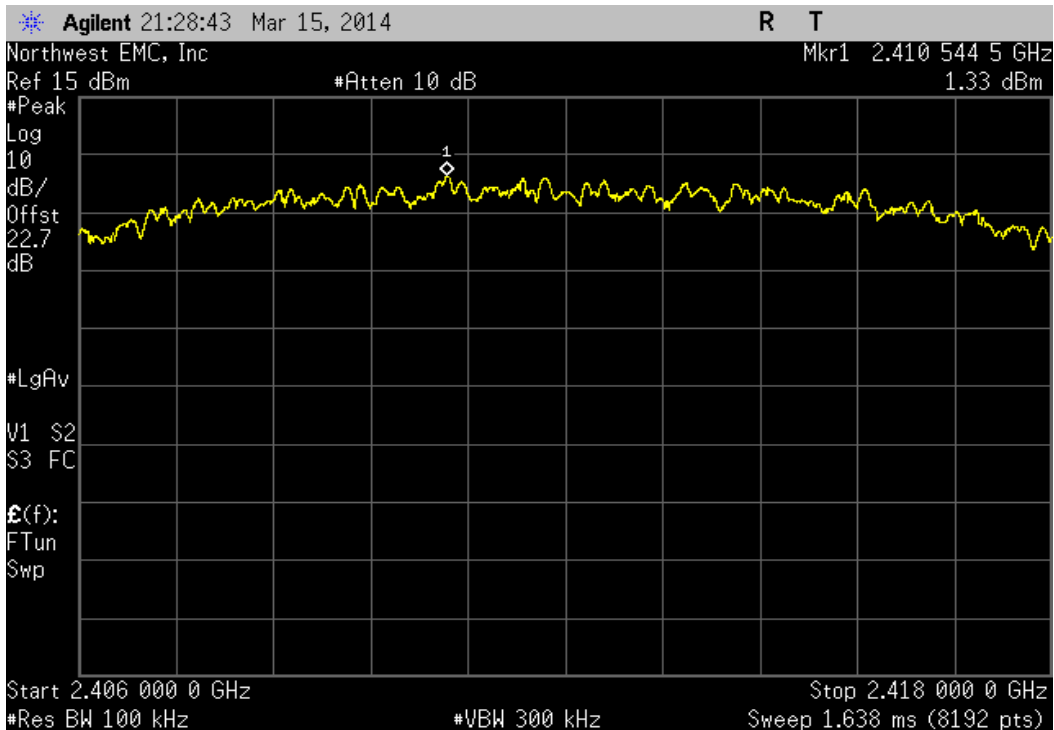
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range			Value	Limit	Result	
30 MHz - 12.5 GHz			-51.46 dBc	≤ -20 dBc	Pass	



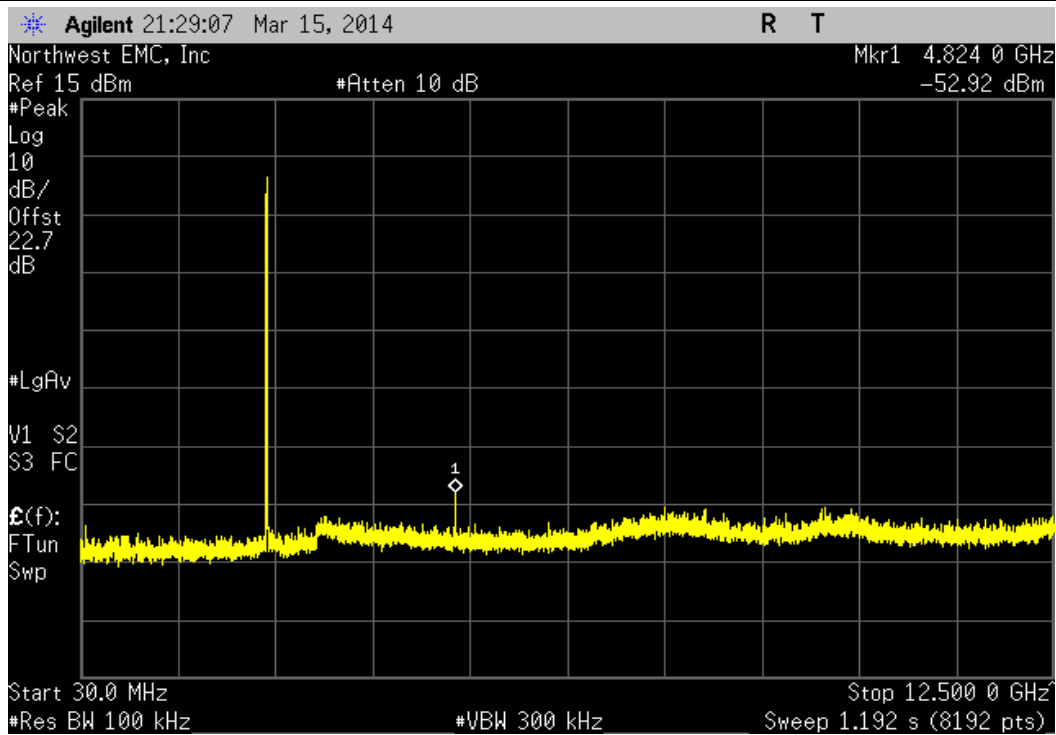
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-56.83 dBc	≤ -20 dBc	Pass



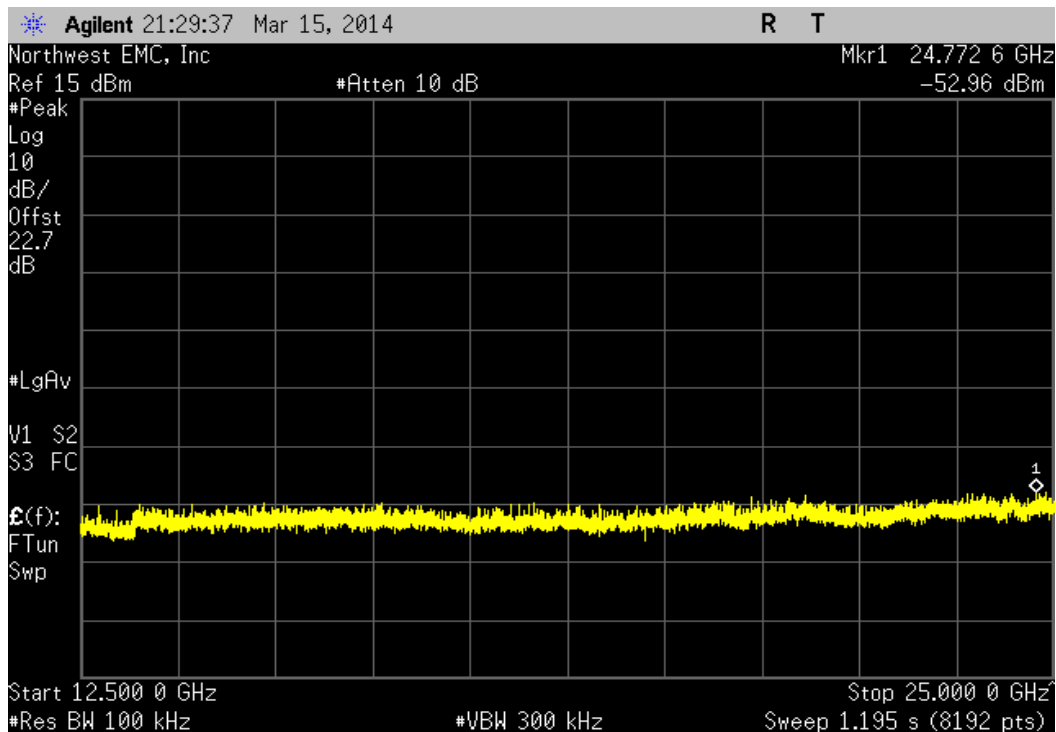
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



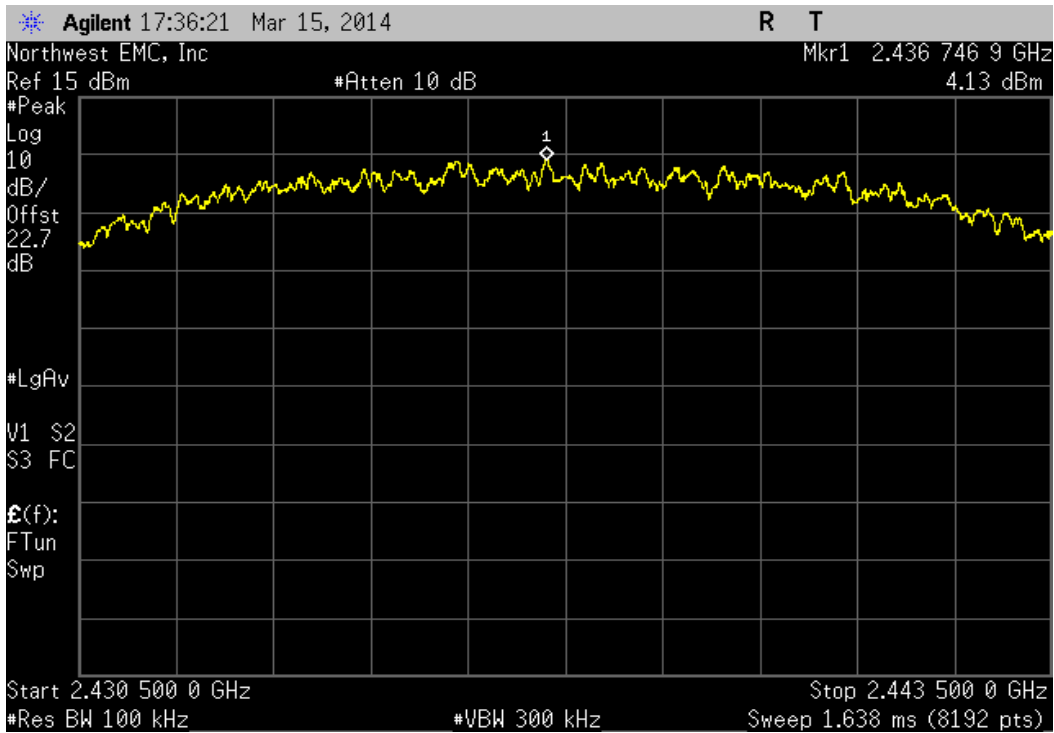
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-54.25 dBc	≤ -20 dBc	Pass



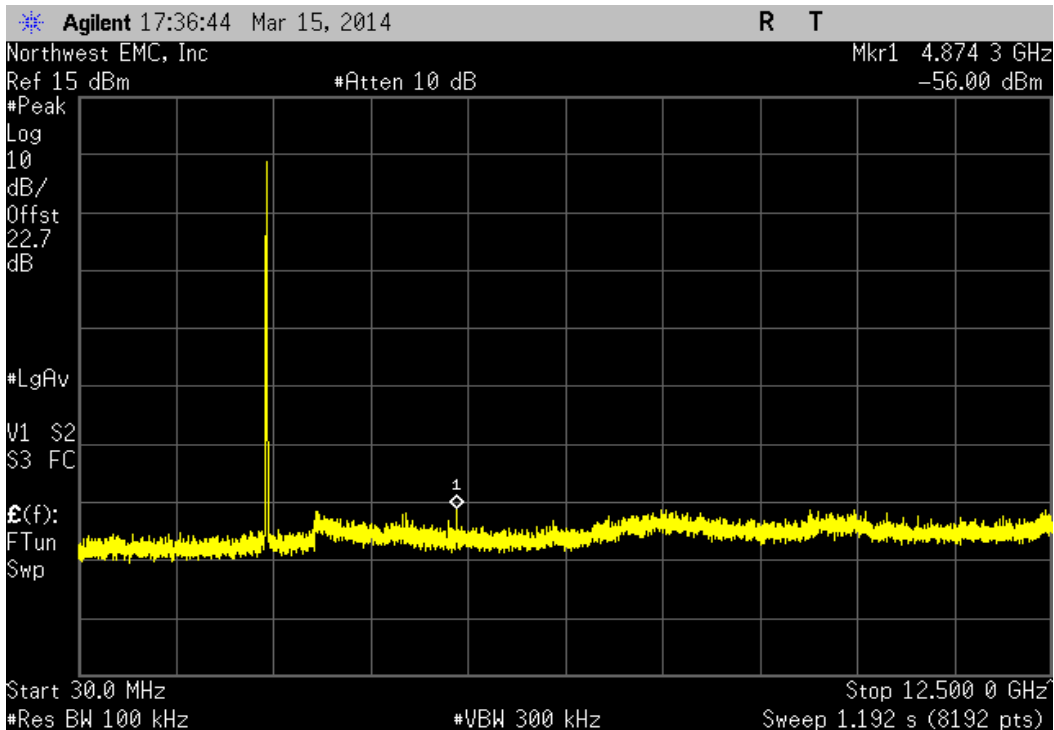
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.29 dBc	≤ -20 dBc	Pass



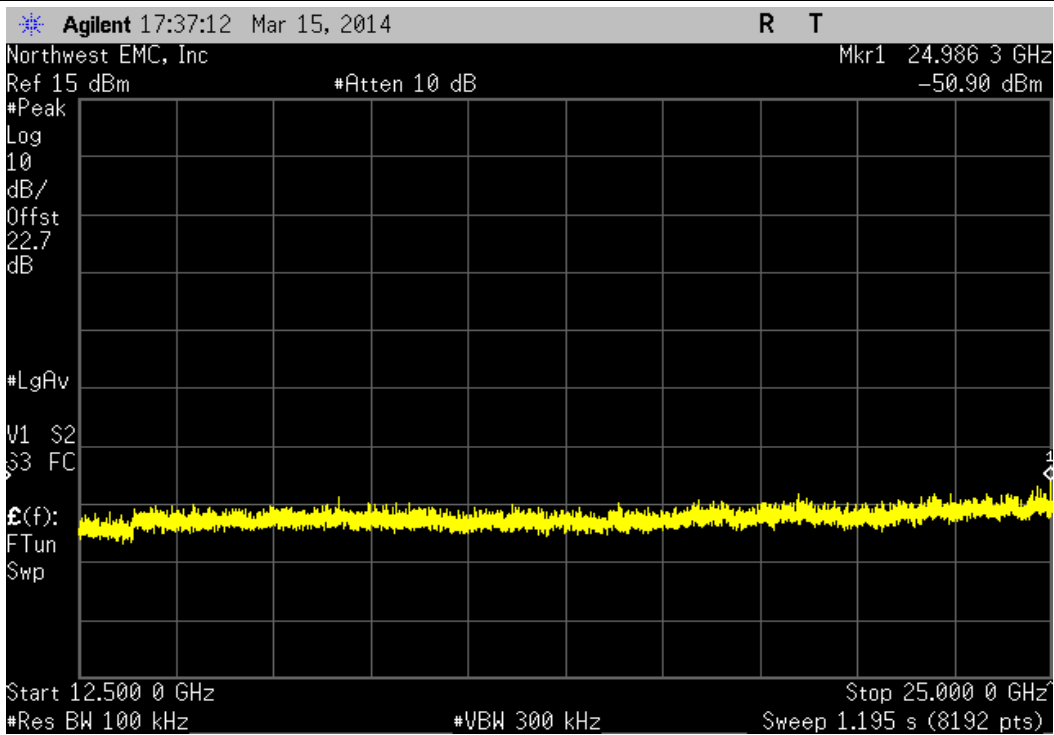
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



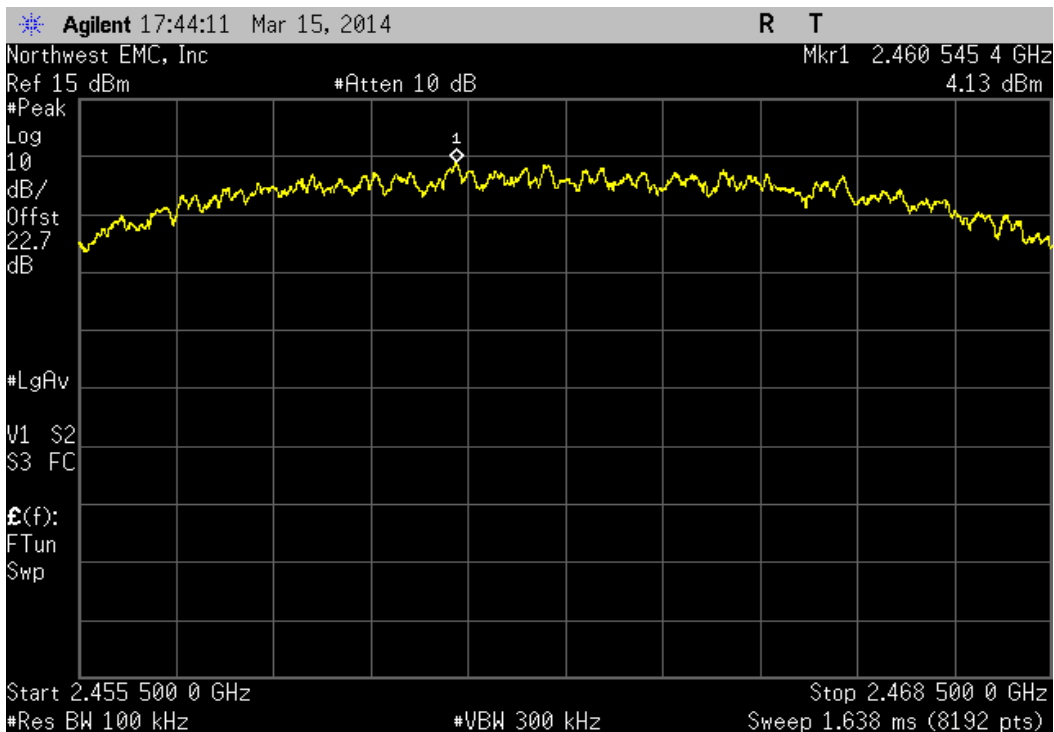
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-60.13 dBc	≤ -20 dBc	Pass		



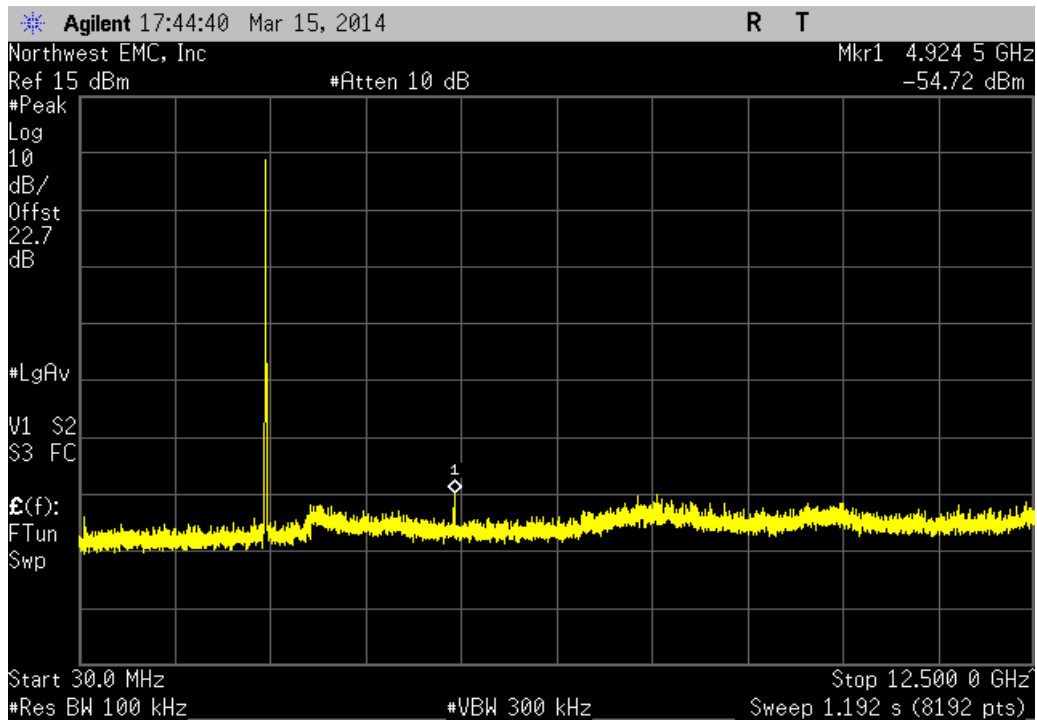
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-55.03 dBc	≤ -20 dBc	Pass



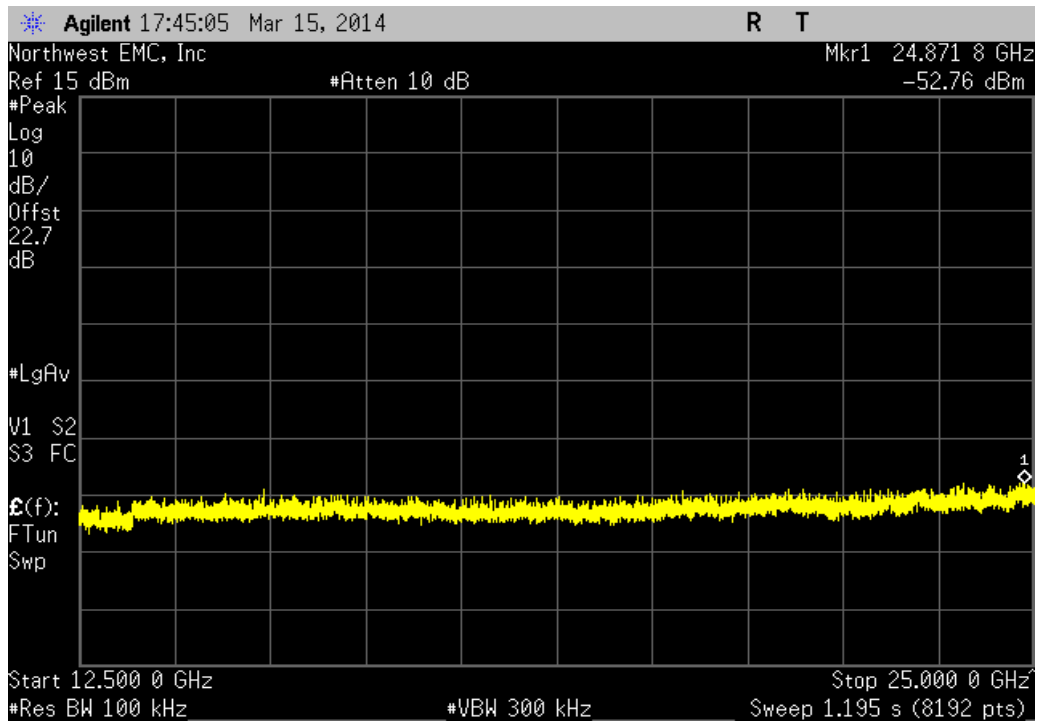
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



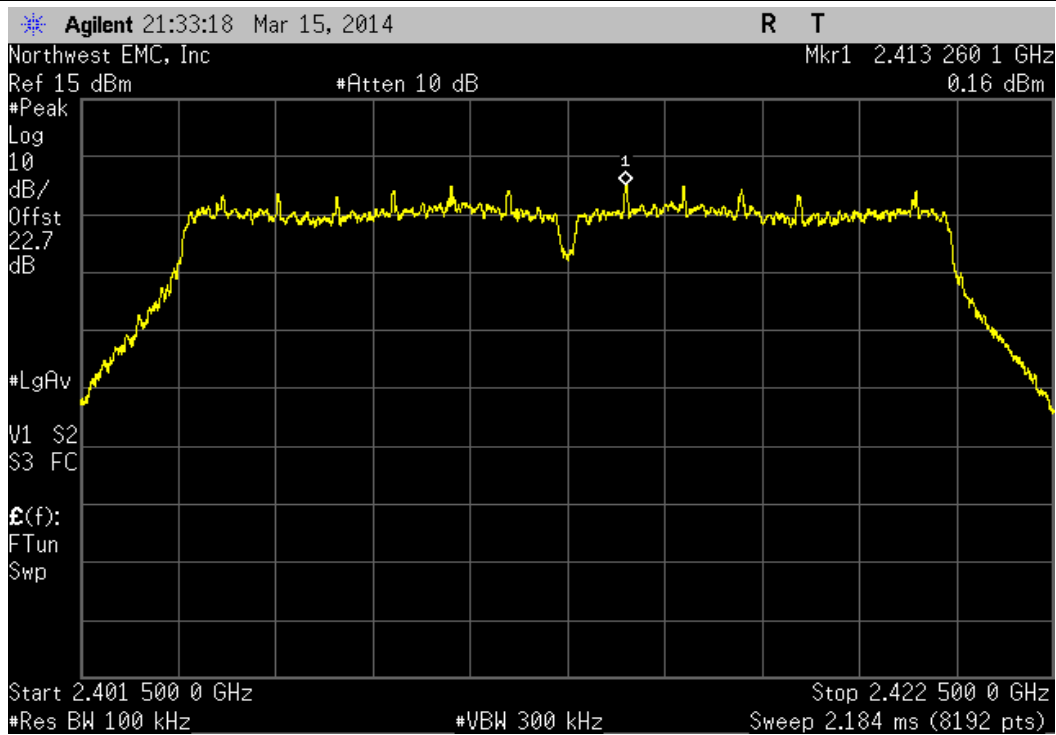
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.85 dBc	≤ -20 dBc	Pass



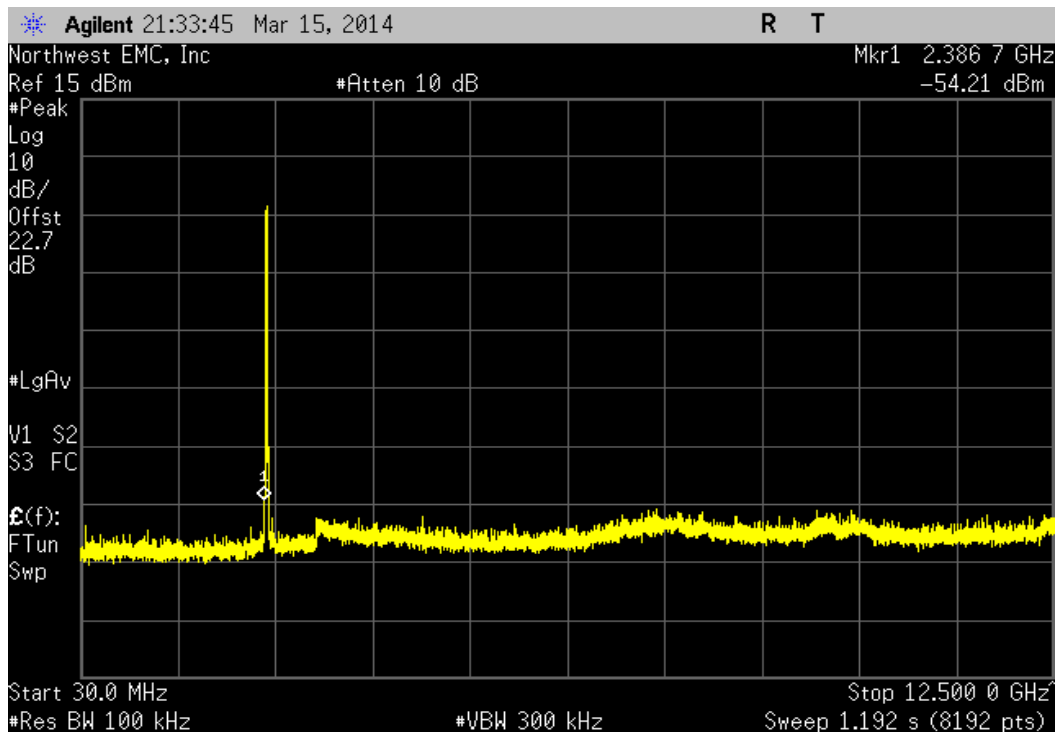
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-56.89 dBc	≤ -20 dBc	Pass



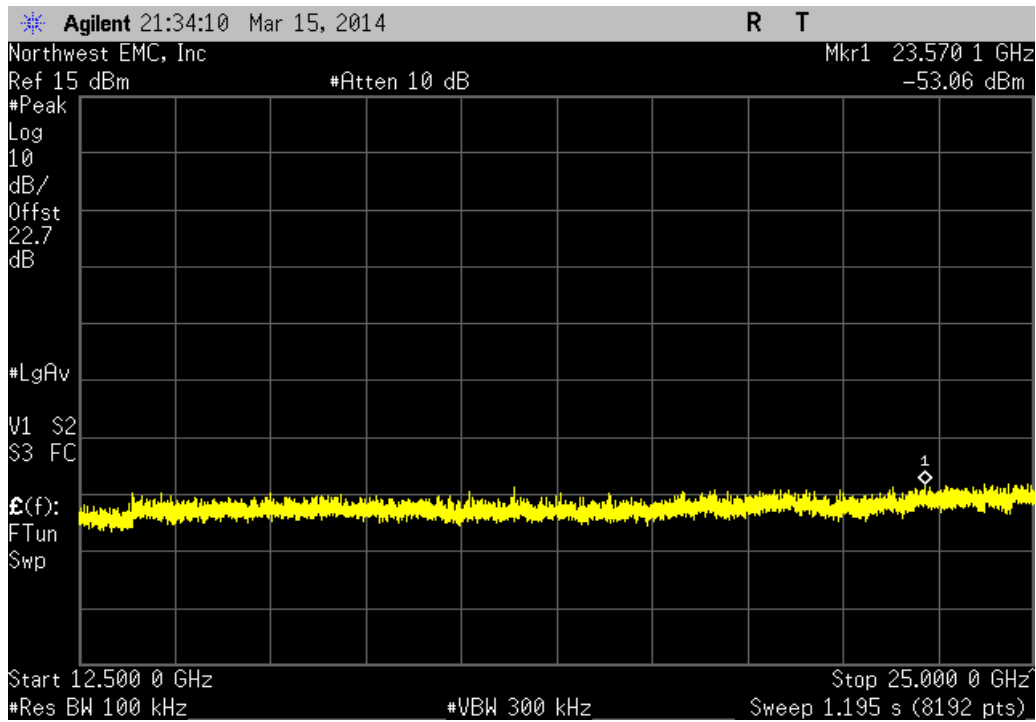
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



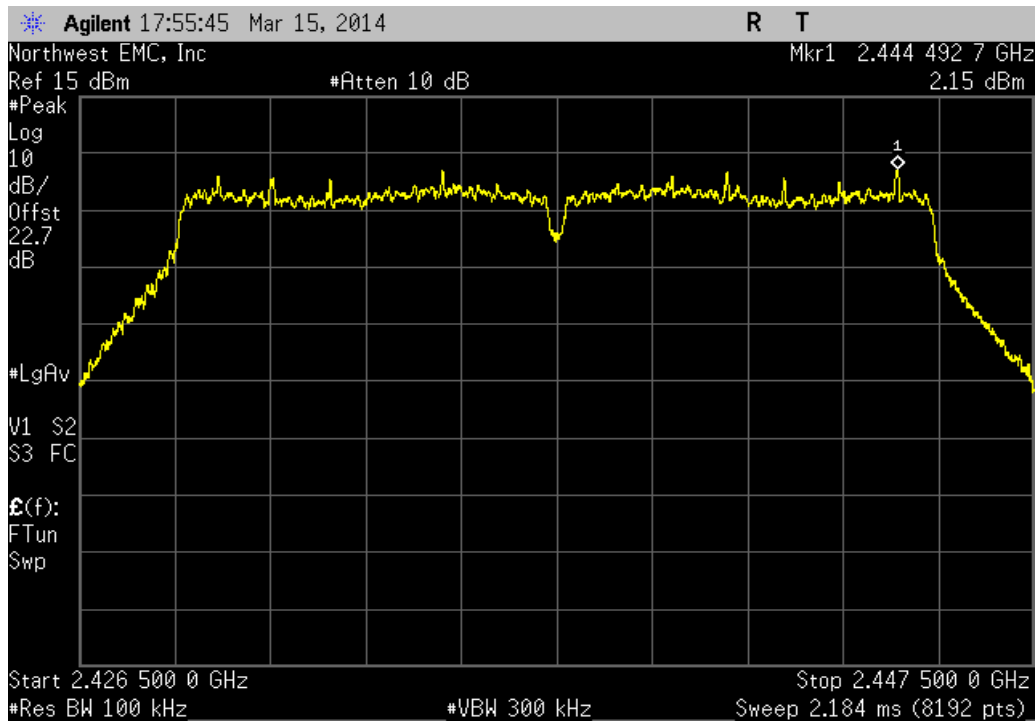
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-54.37 dBc	≤ -20 dBc	Pass		



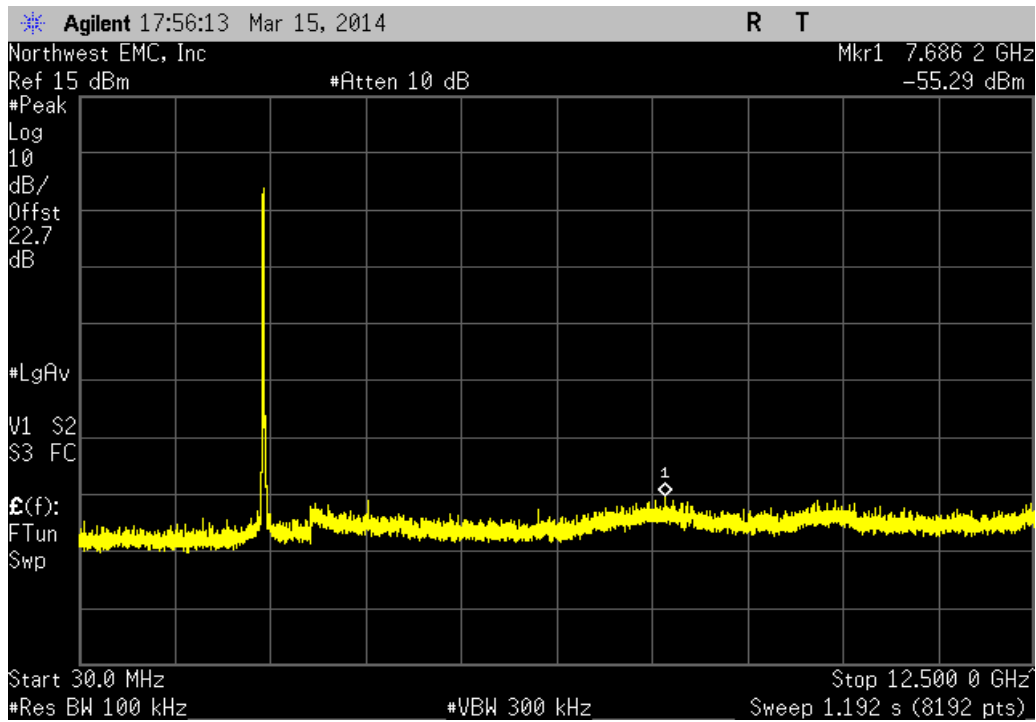
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-53.22 dBc	≤ -20 dBc	Pass



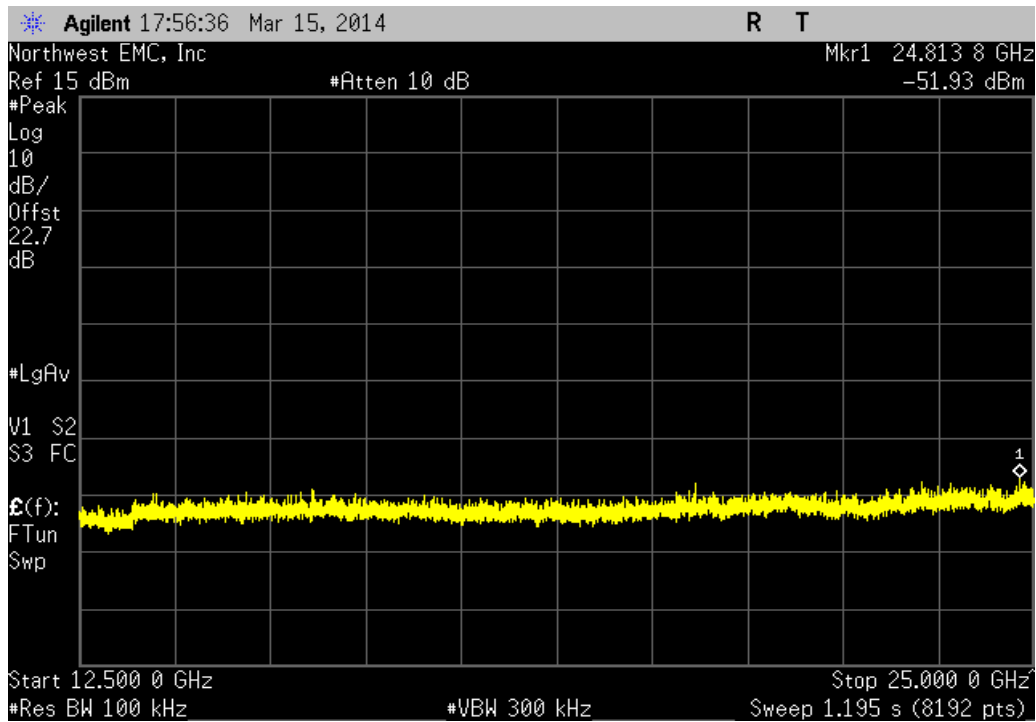
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



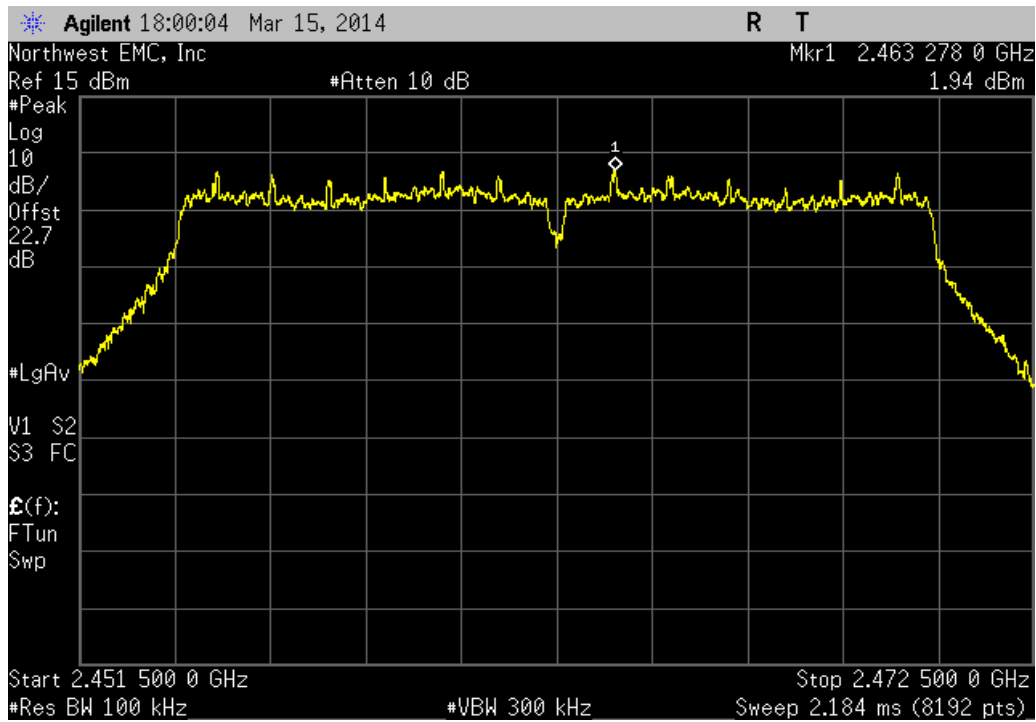
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-57.44 dBc	≤ -20 dBc	Pass



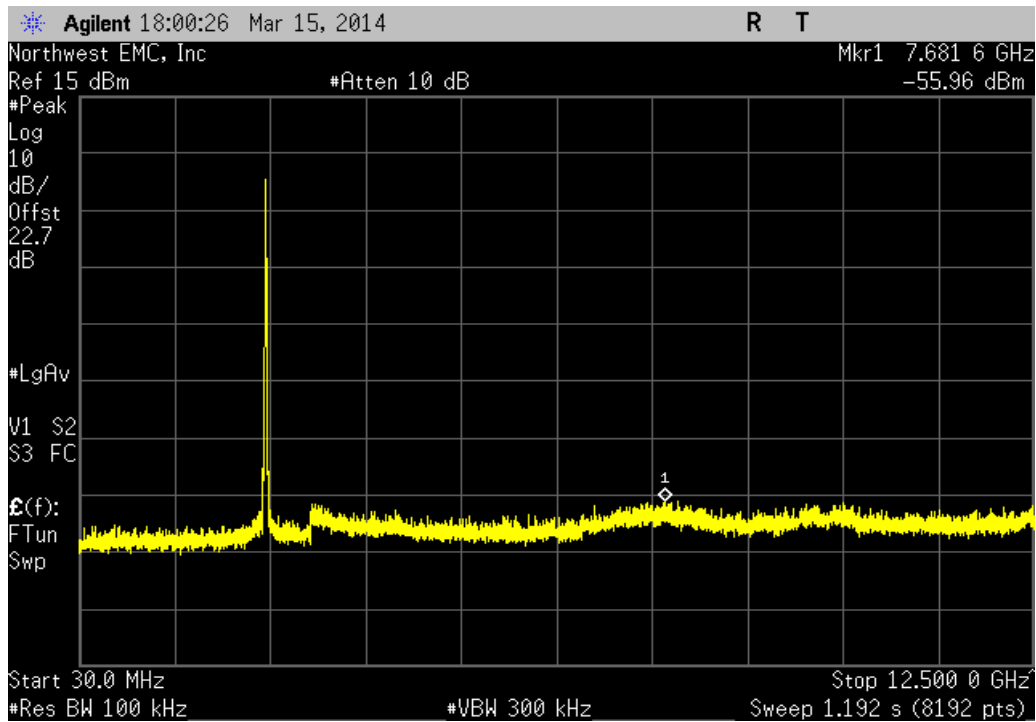
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.08 dBc	≤ -20 dBc	Pass



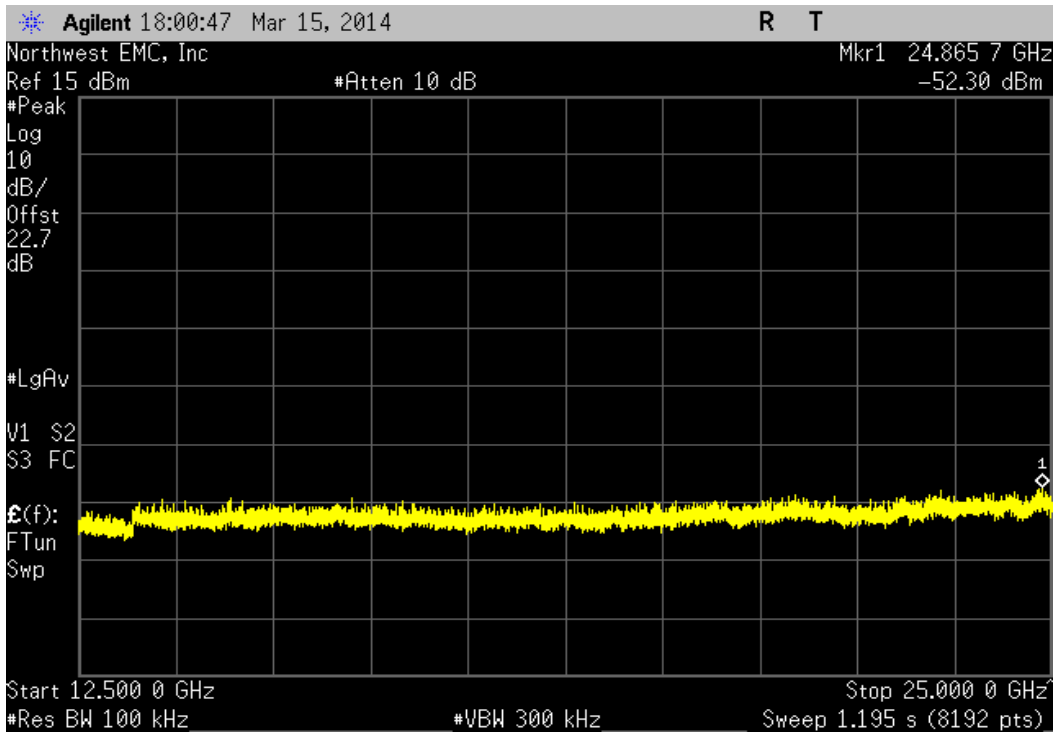
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



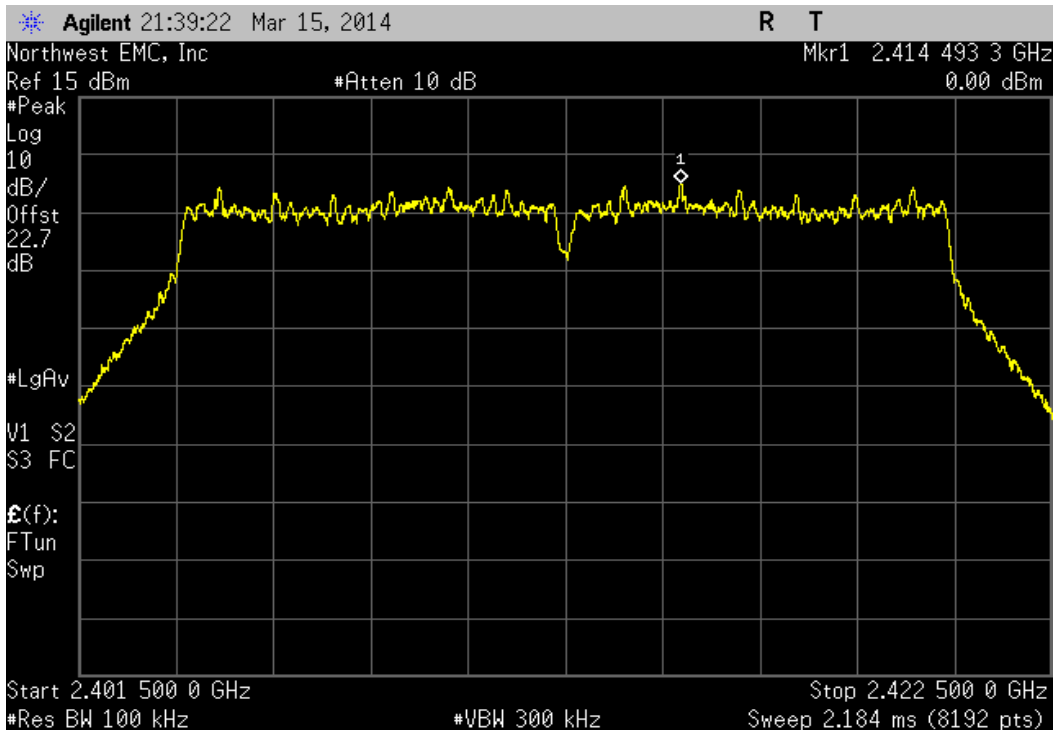
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.9 dBc	≤ -20 dBc	Pass



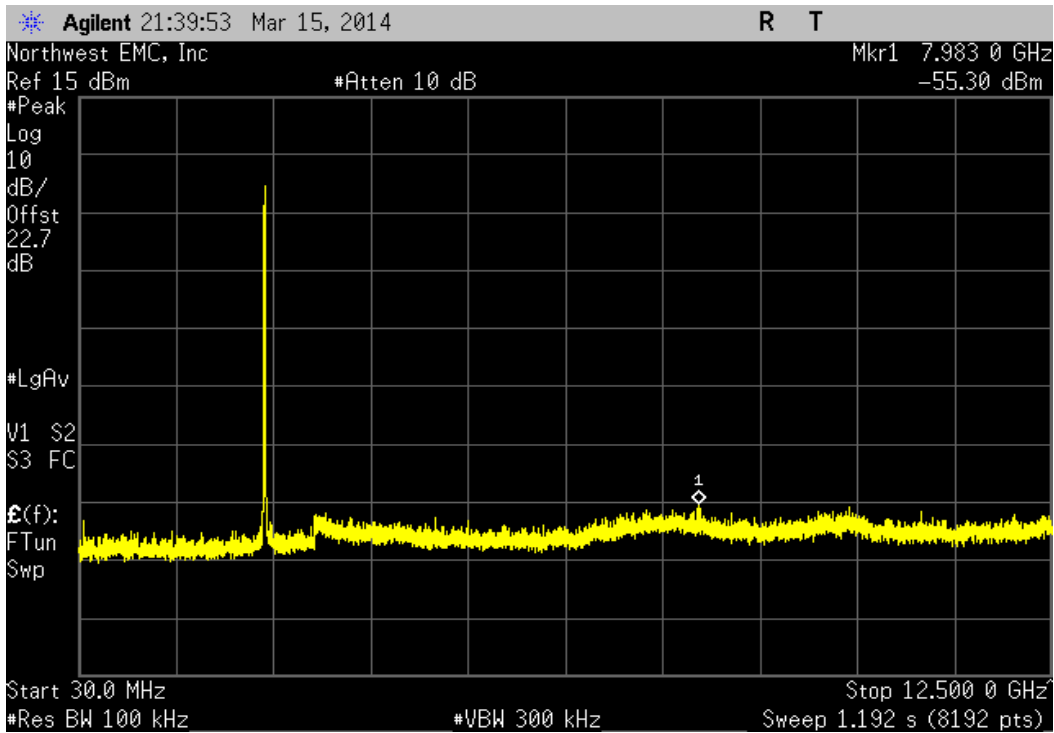
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.24 dBc	≤ -20 dBc	Pass



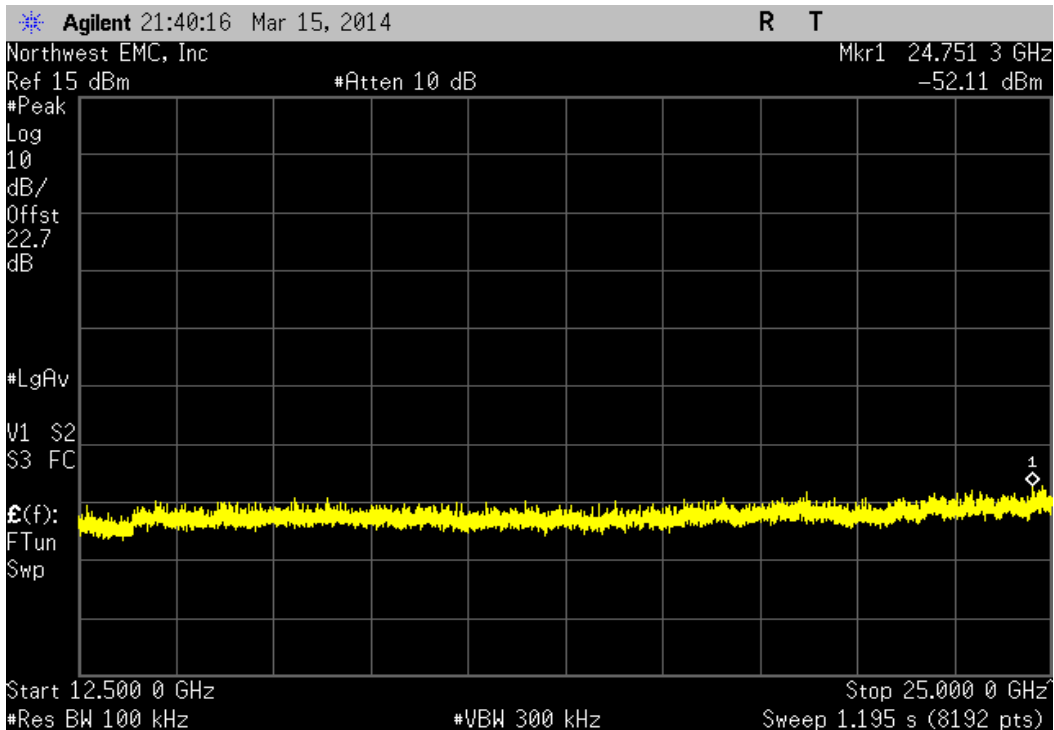
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



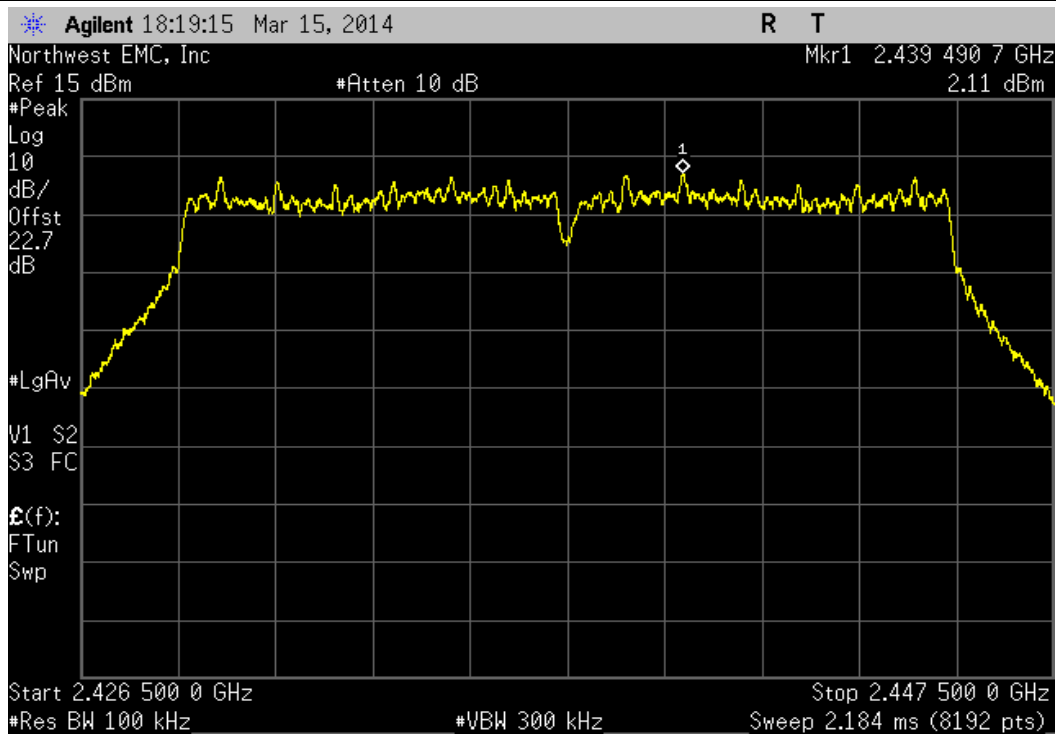
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-55.29 dBc	≤ -20 dBc	Pass



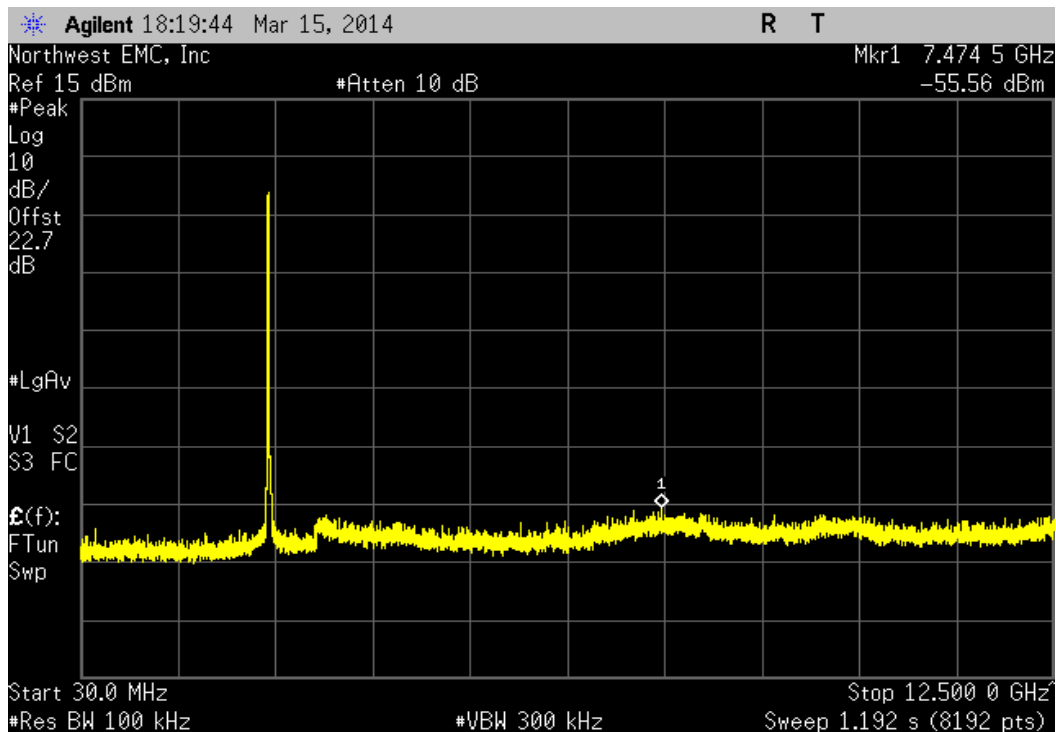
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.1 dBc	≤ -20 dBc	Pass



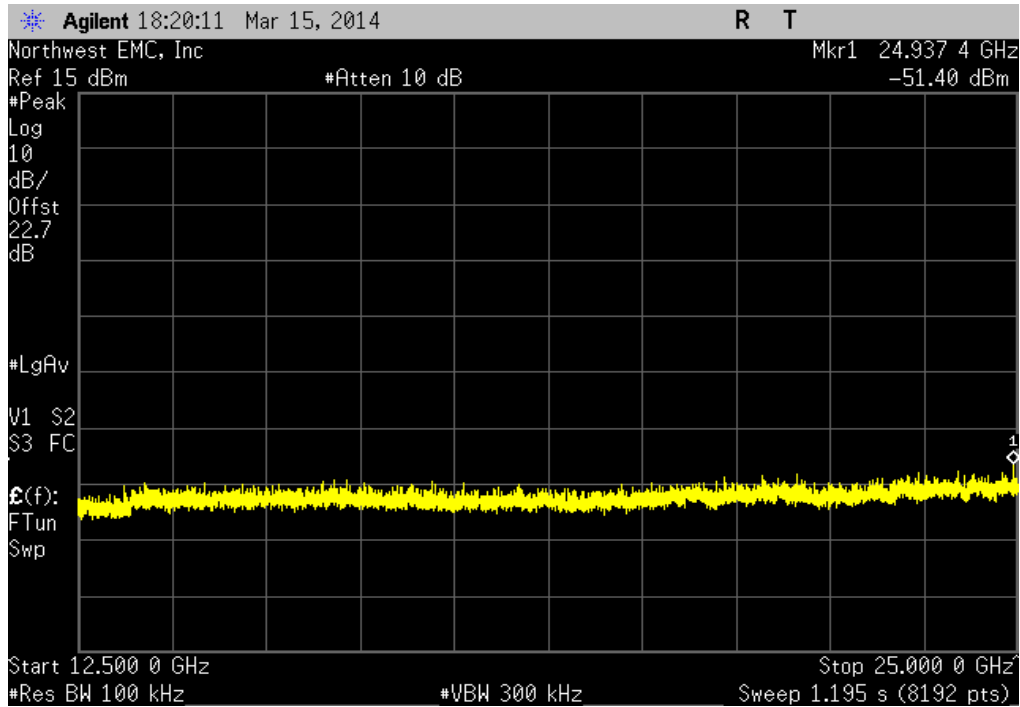
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



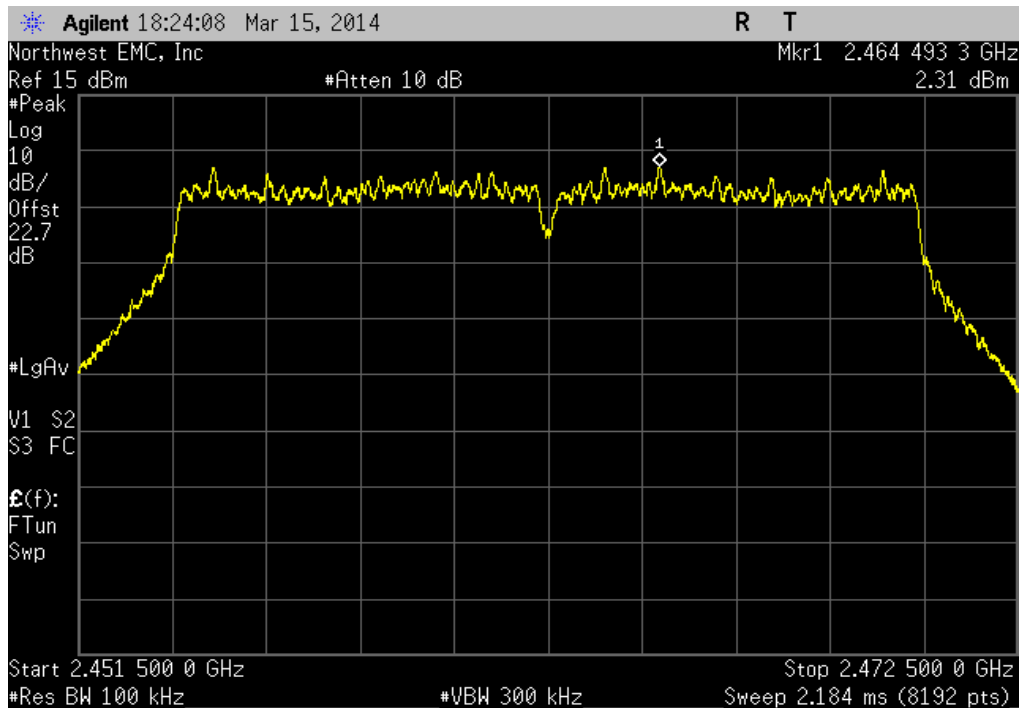
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-57.67 dBc	≤ -20 dBc	Pass		



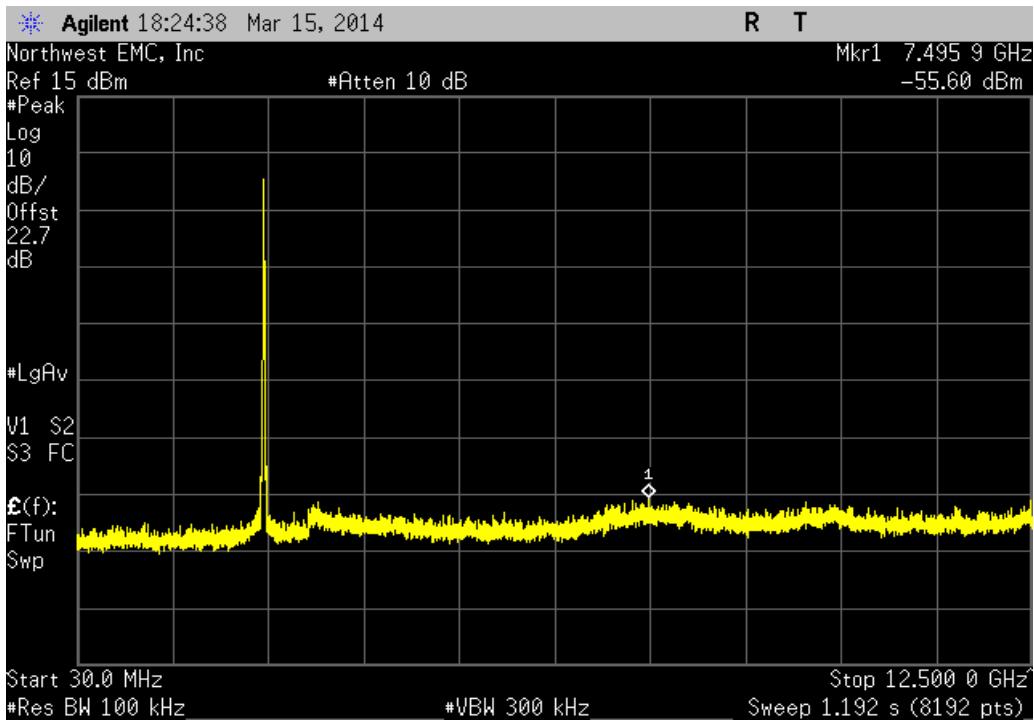
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.51 dBc	≤ -20 dBc	Pass



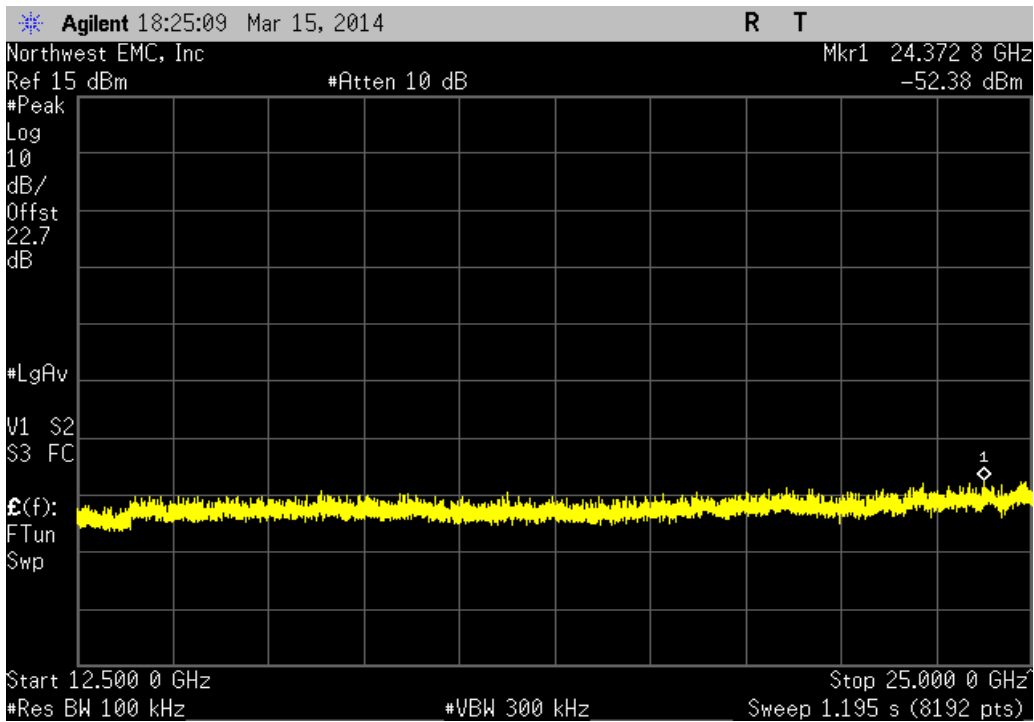
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



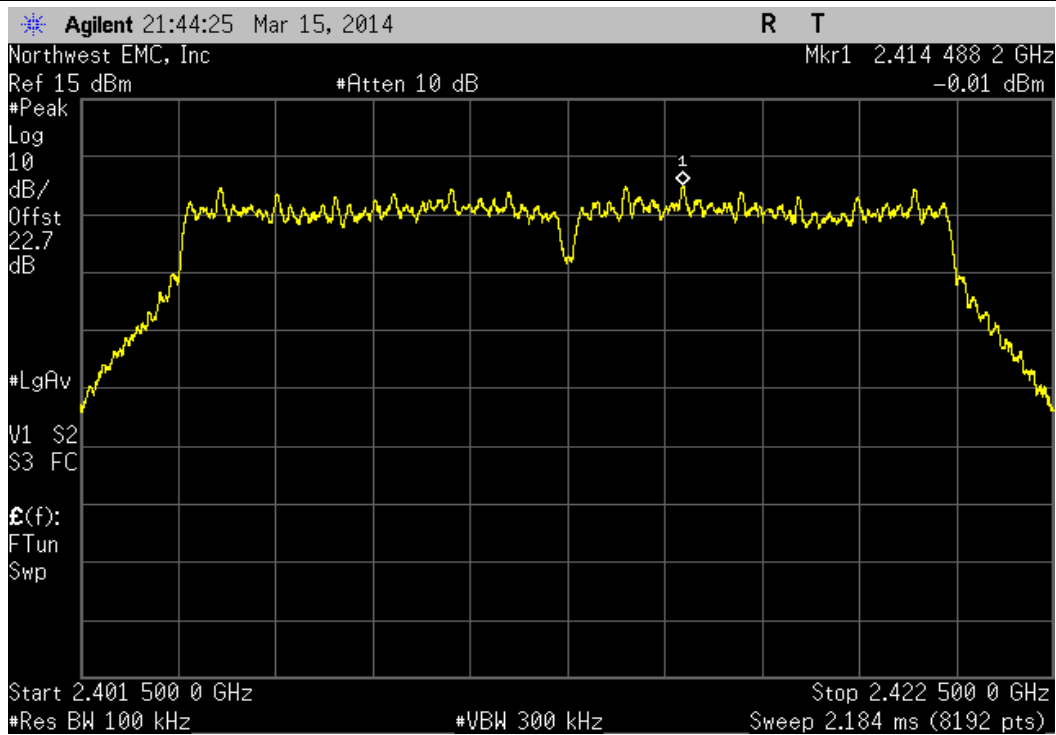
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-57.91 dBc	≤ -20 dBc	Pass



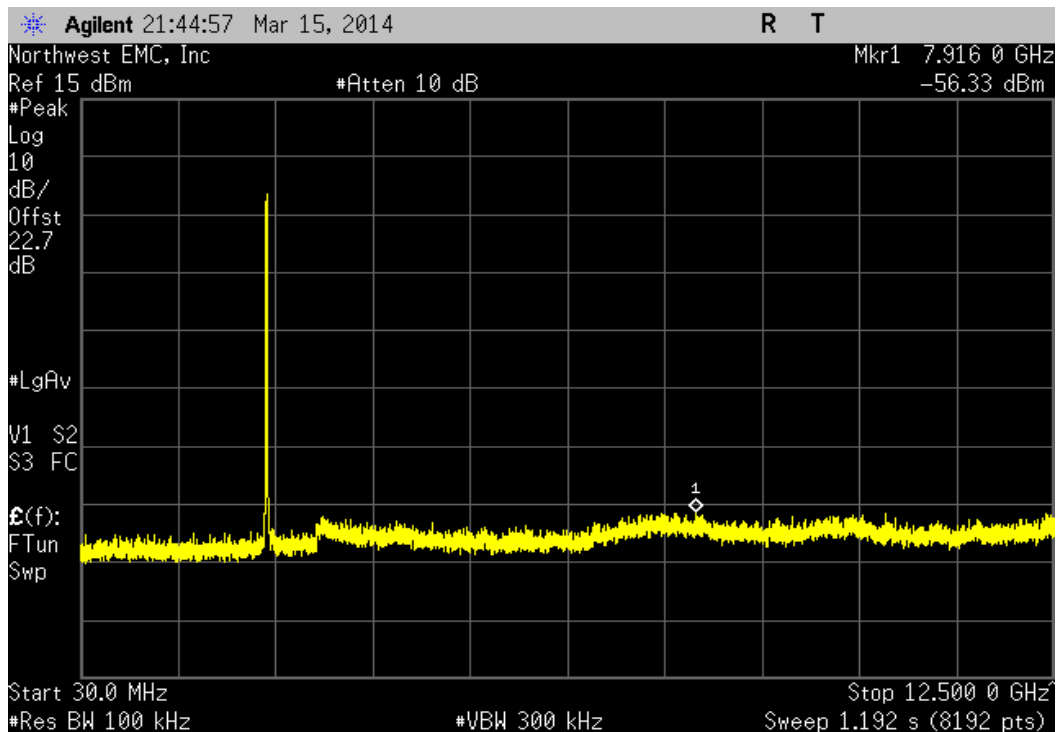
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.69 dBc	≤ -20 dBc	Pass



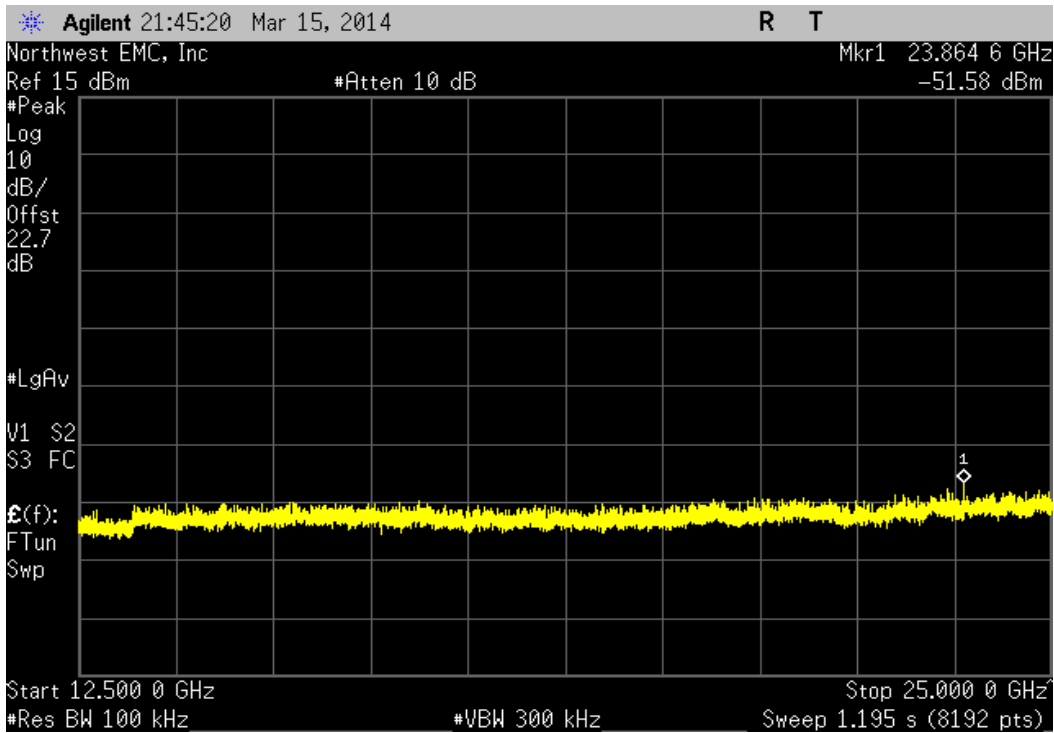
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



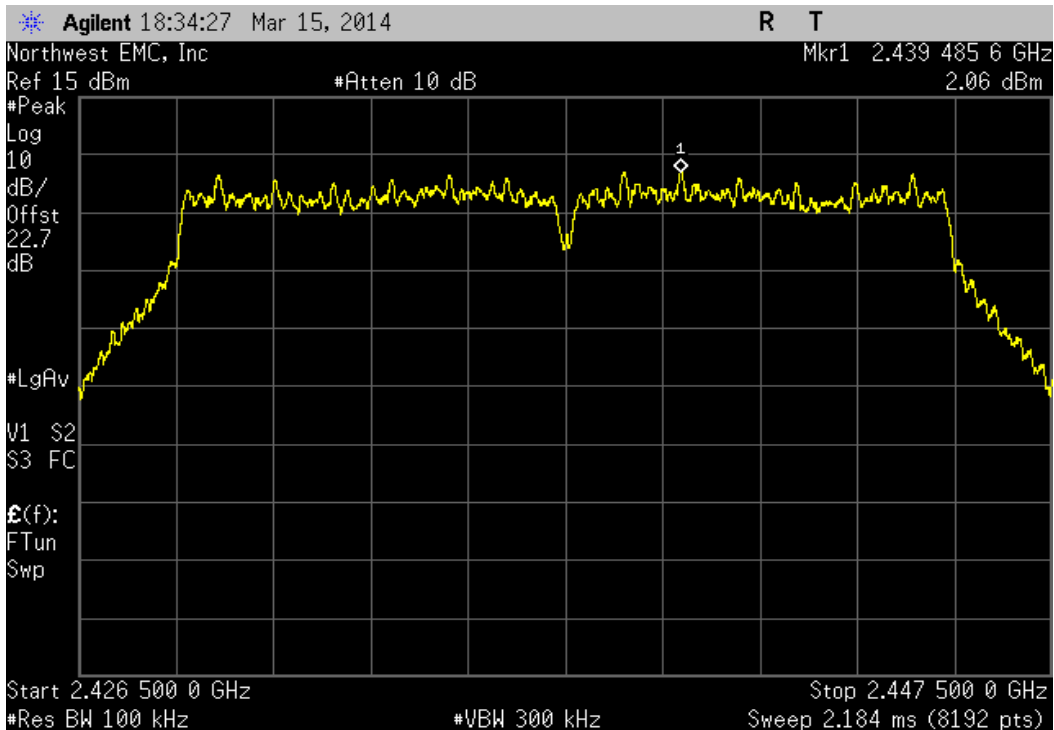
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-56.32 dBc	≤ -20 dBc	Pass		



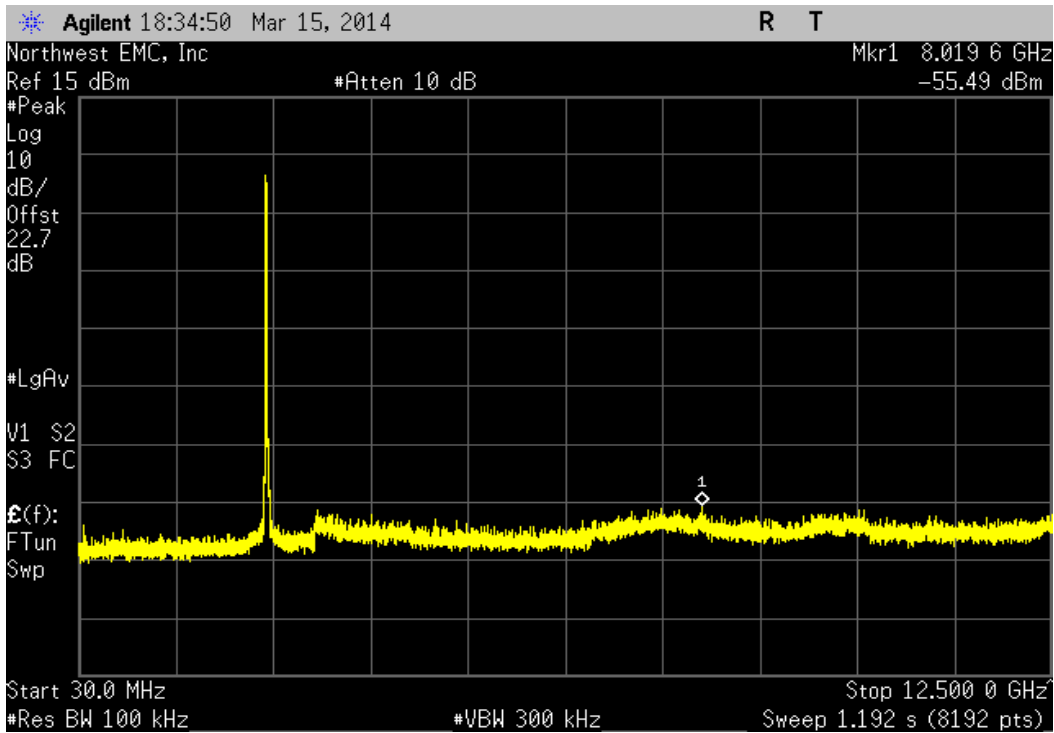
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-51.57 dBc	≤ -20 dBc	Pass



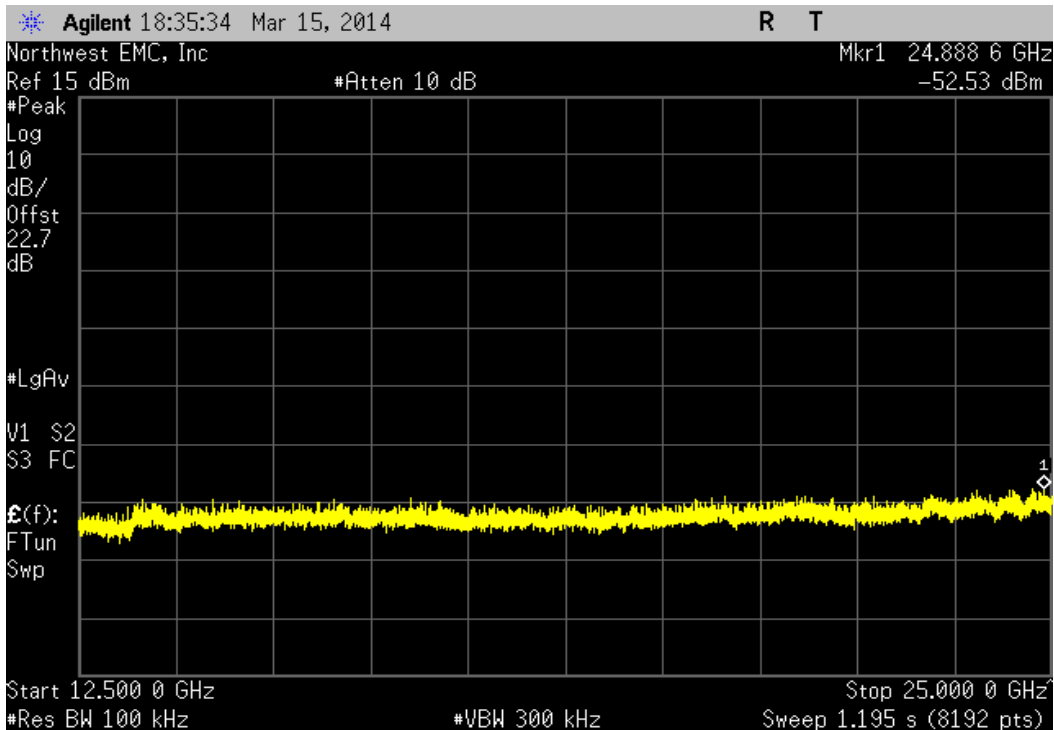
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



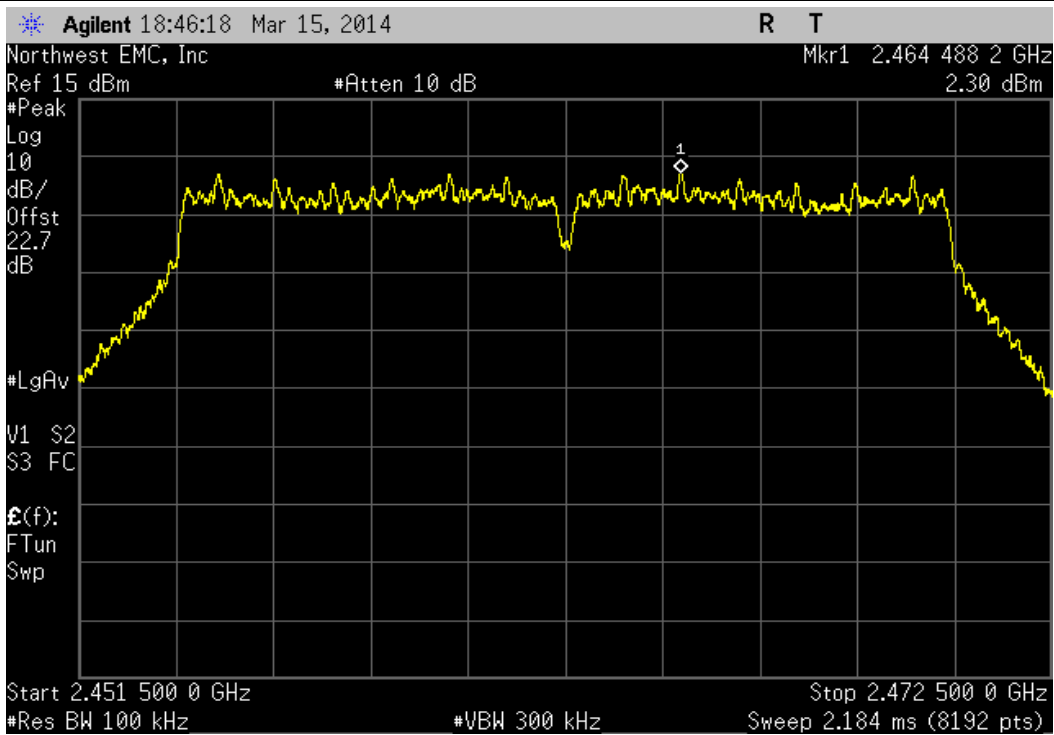
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-57.55 dBc	≤ -20 dBc	Pass



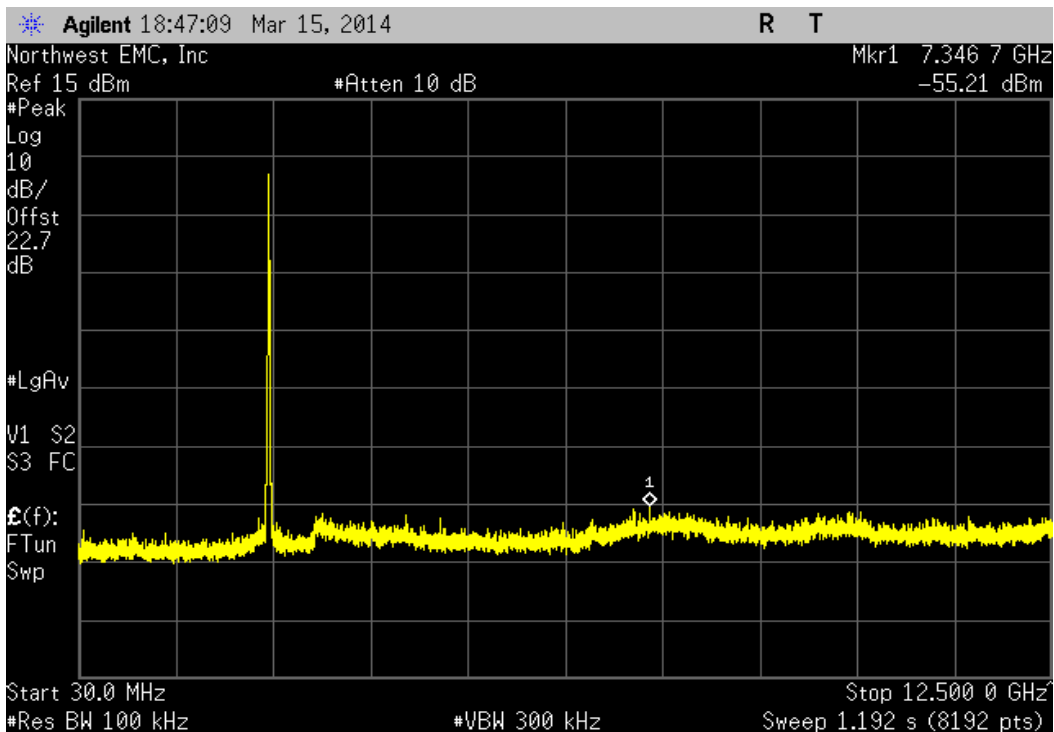
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.59 dBc	≤ -20 dBc	Pass



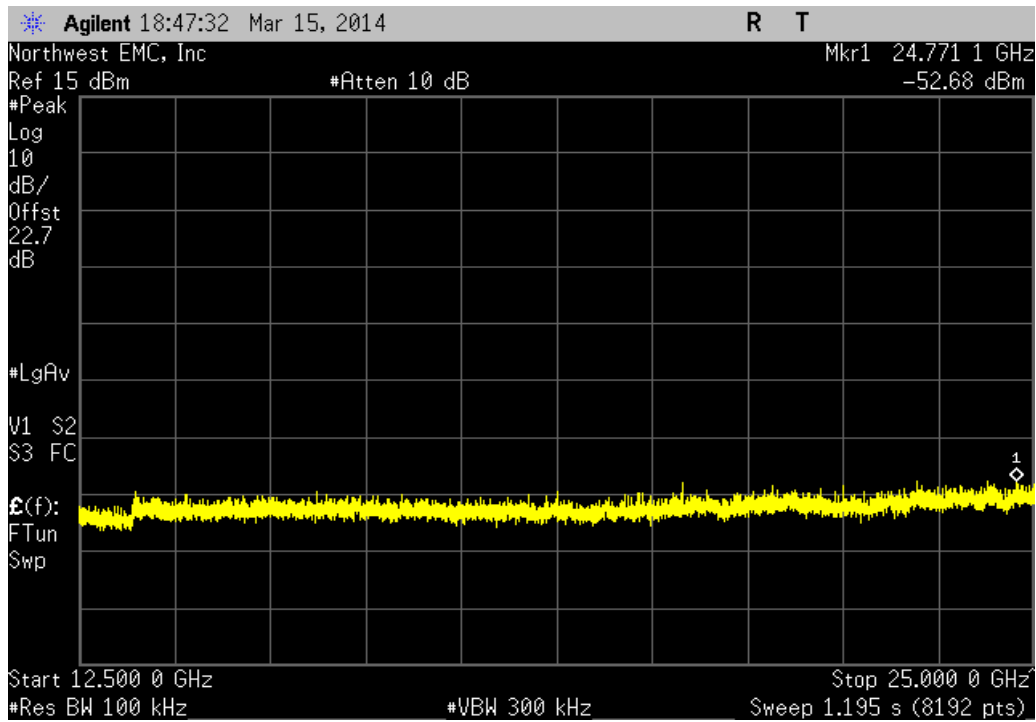
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
	Fundamental	N/A	N/A	N/A		



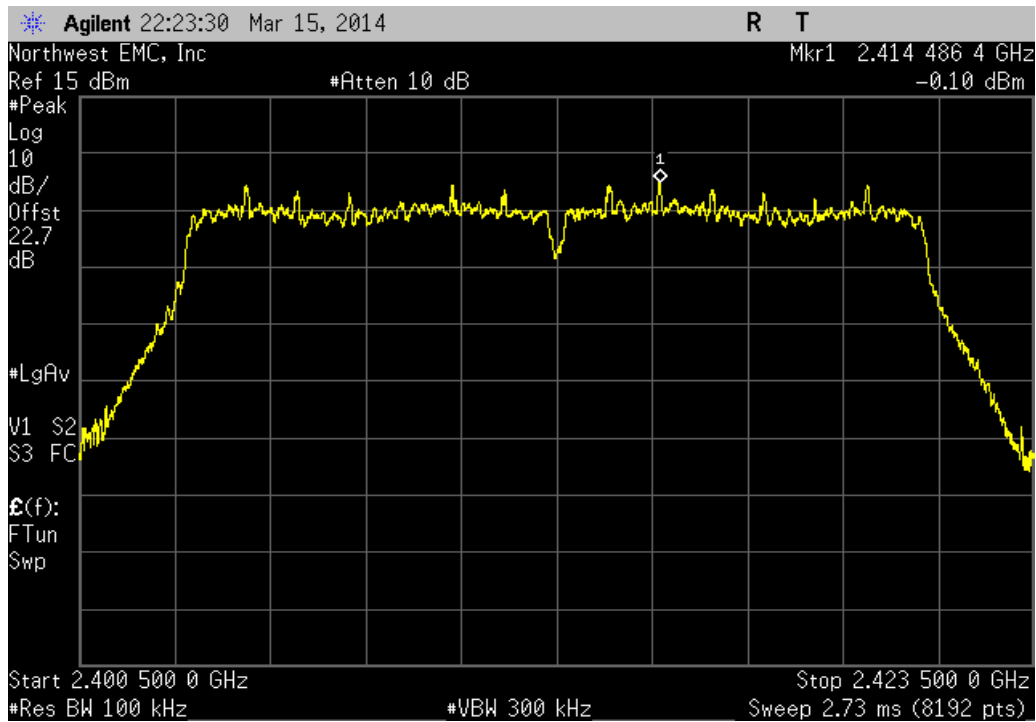
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
	30 MHz - 12.5 GHz	-57.51 dBc	≤ -20 dBc	Pass		



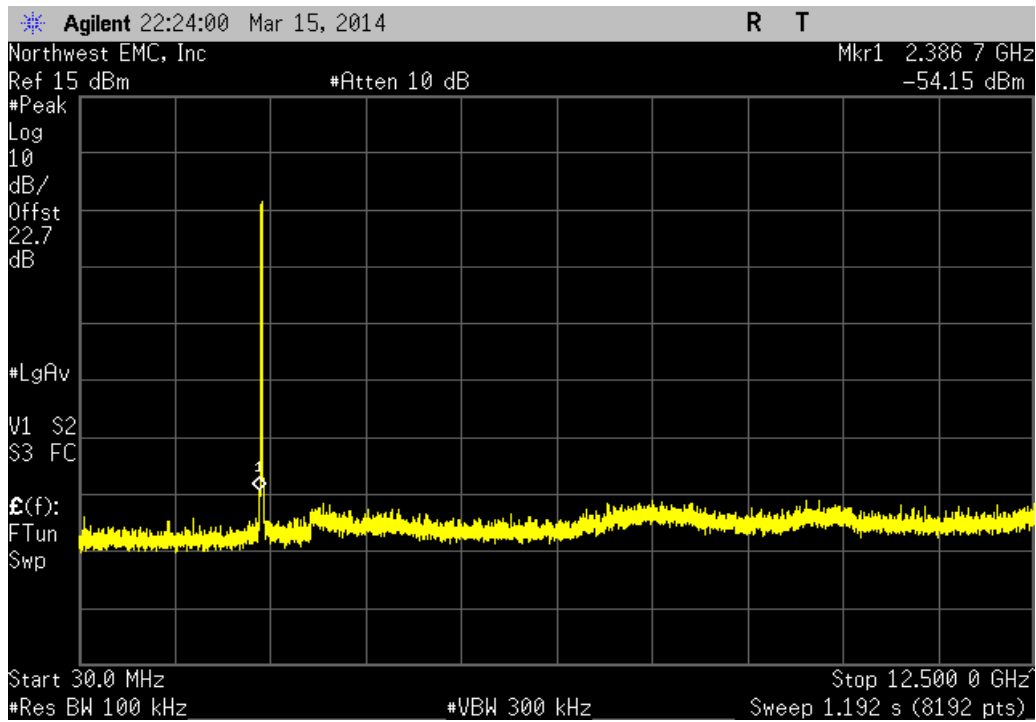
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.98 dBc	≤ -20 dBc	Pass



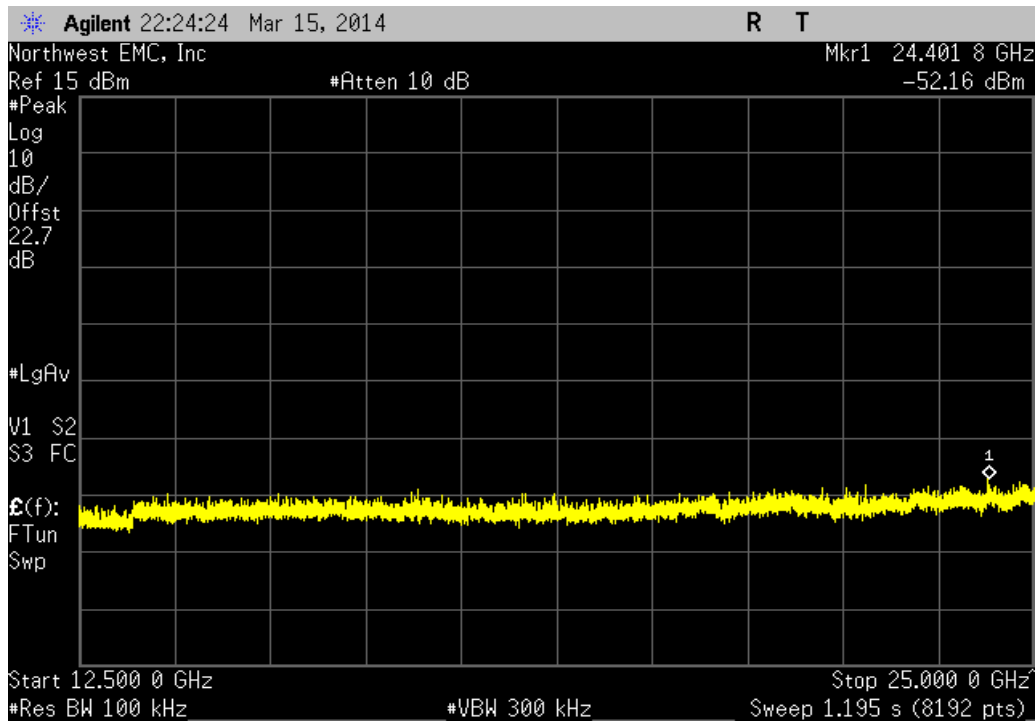
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



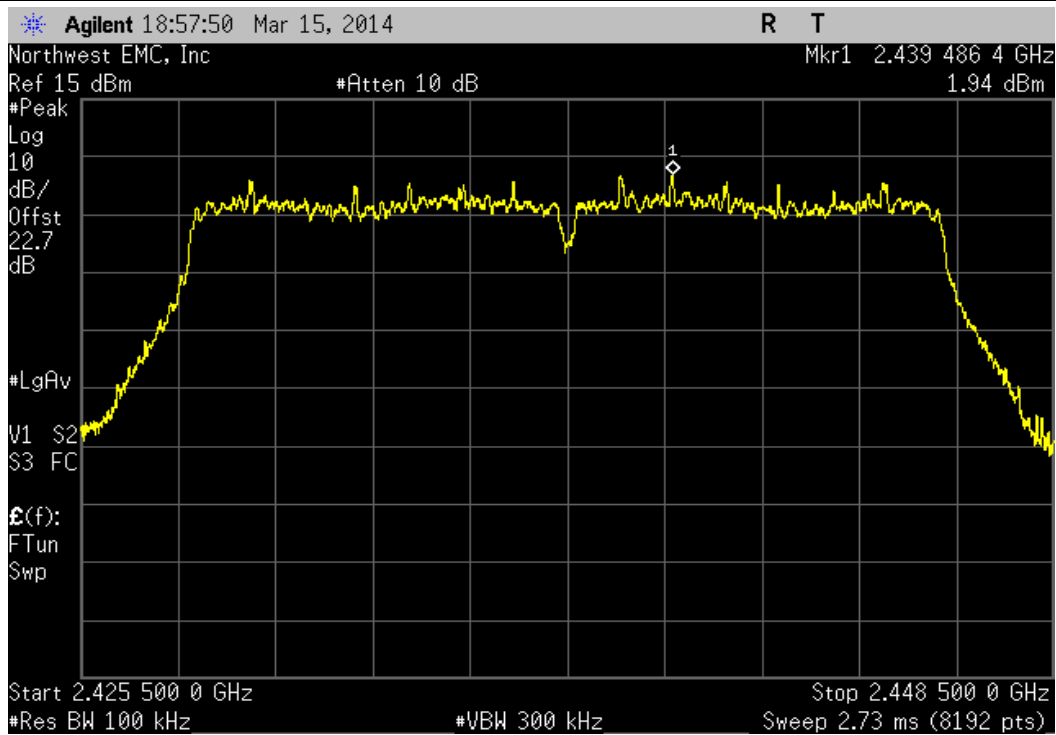
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.05 dBc	≤ -20 dBc	Pass



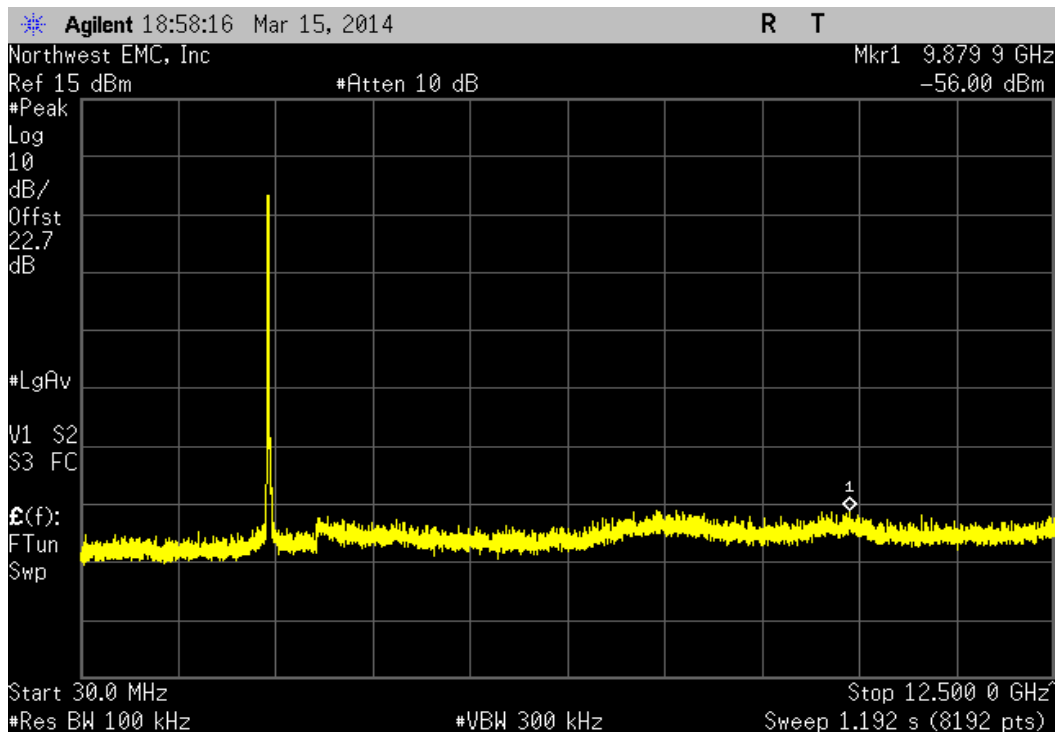
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-52.06 dBc	≤ -20 dBc	Pass



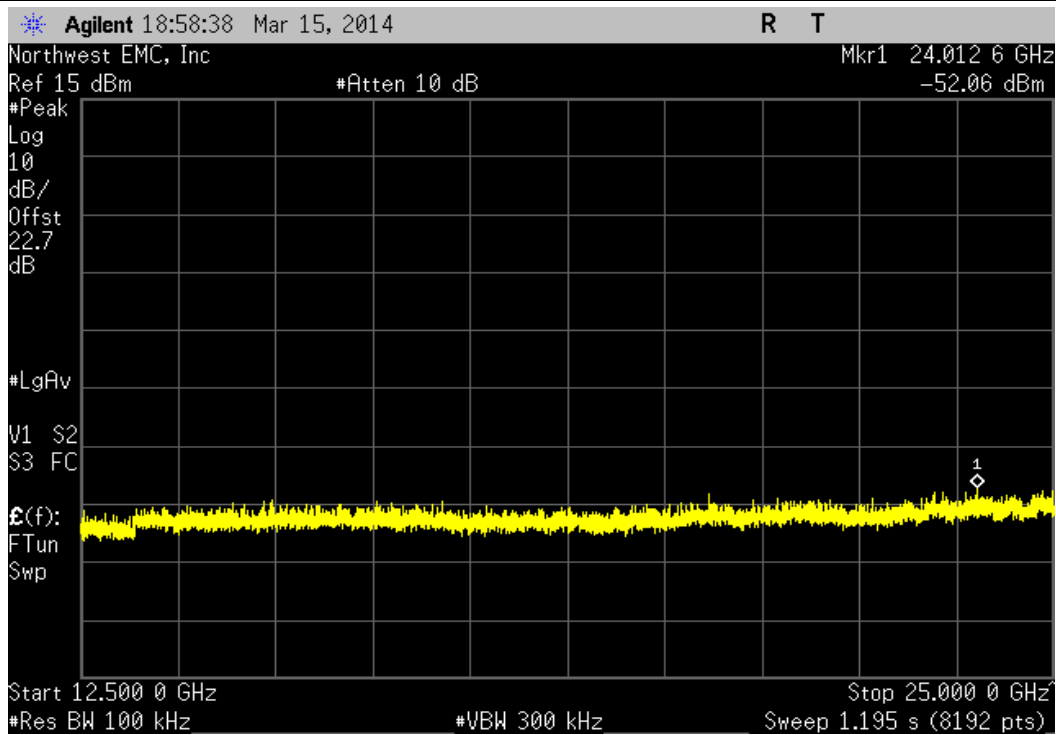
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
	Fundamental	N/A	N/A	N/A		



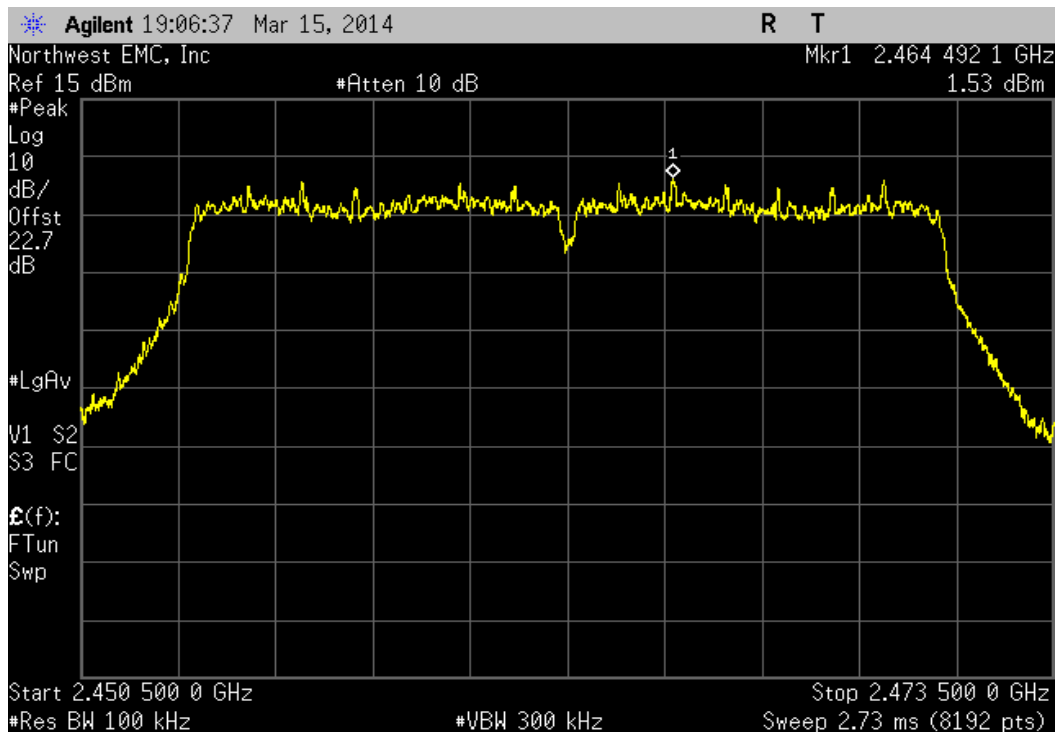
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range		Value	Limit	Result		
	30 MHz - 12.5 GHz	-57.94 dBc	≤ -20 dBc	Pass		



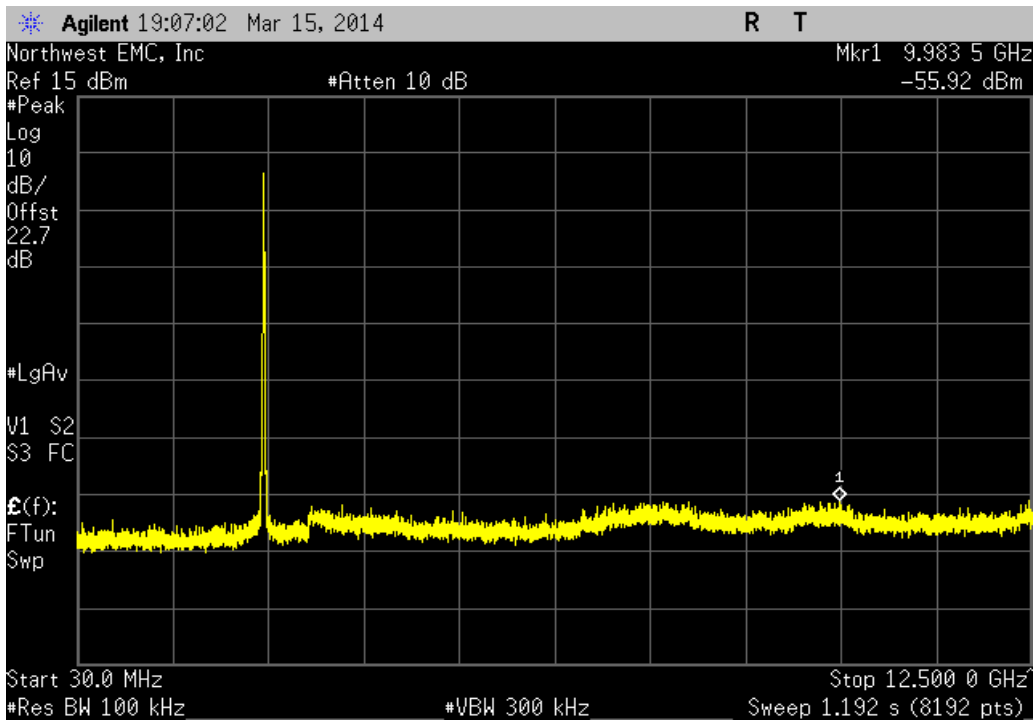
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54 dBc	≤ -20 dBc	Pass



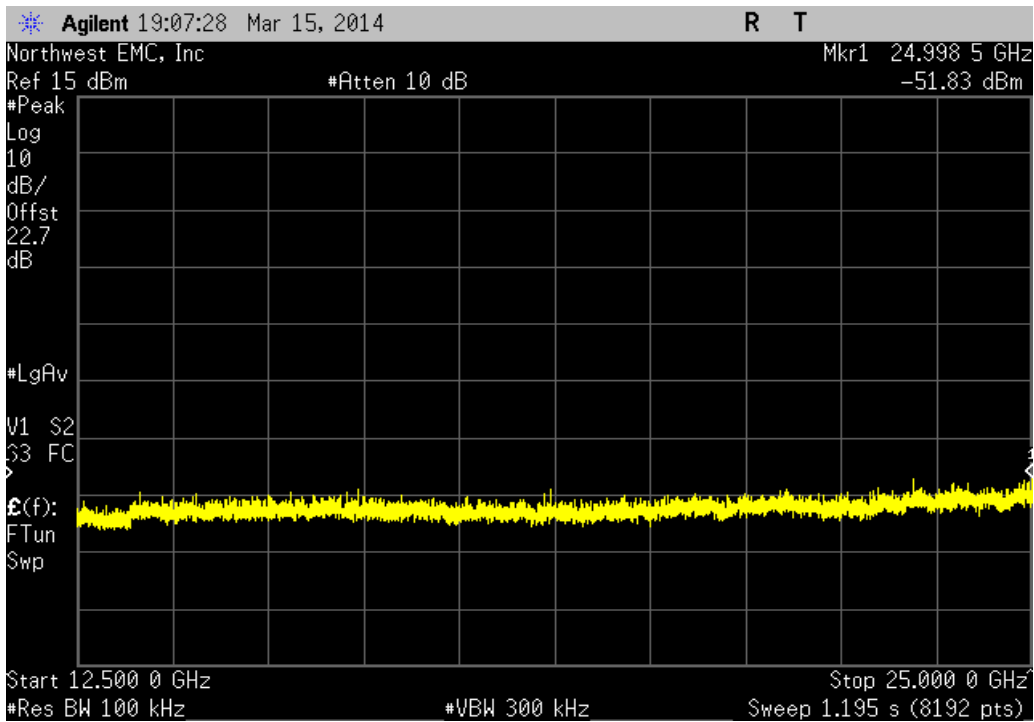
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



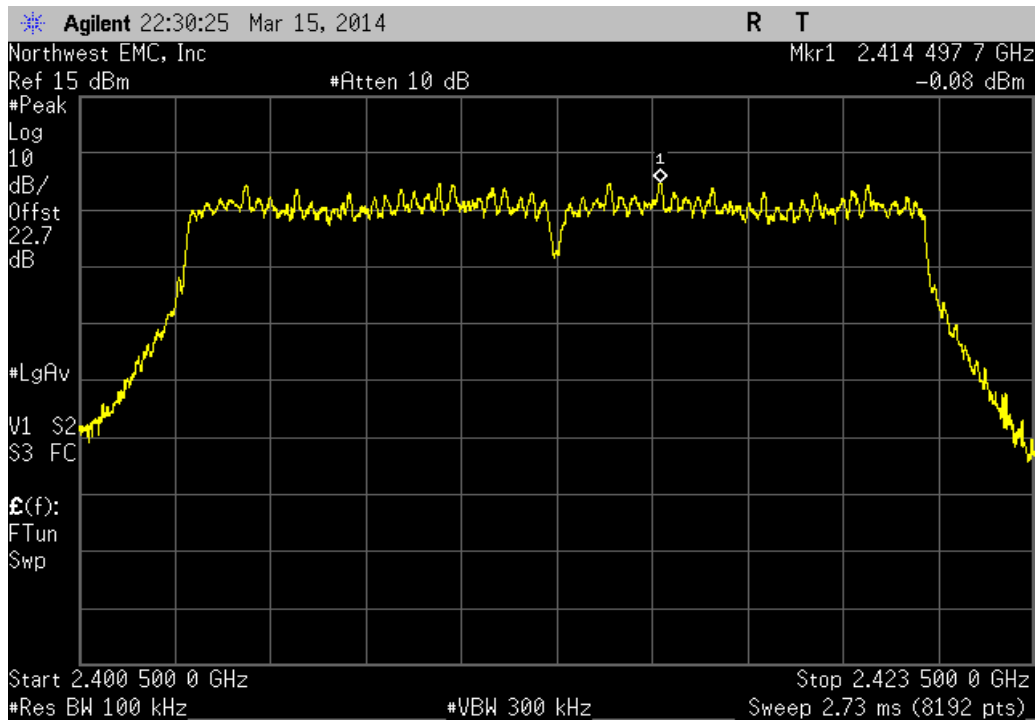
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.45 dBc	≤ -20 dBc	Pass



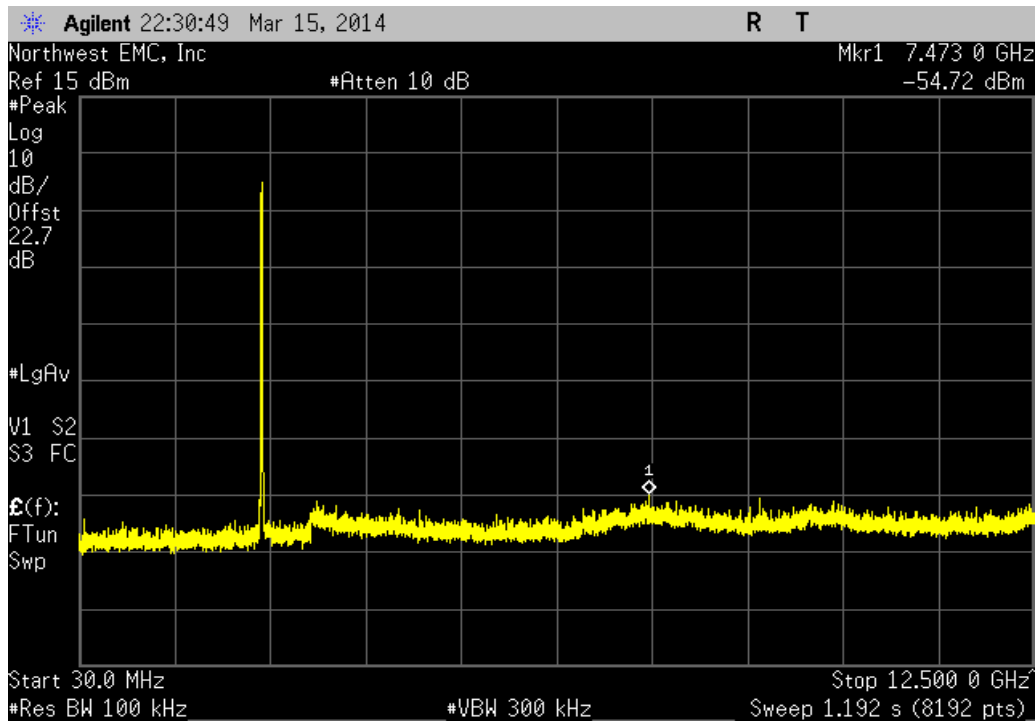
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.36 dBc	≤ -20 dBc	Pass



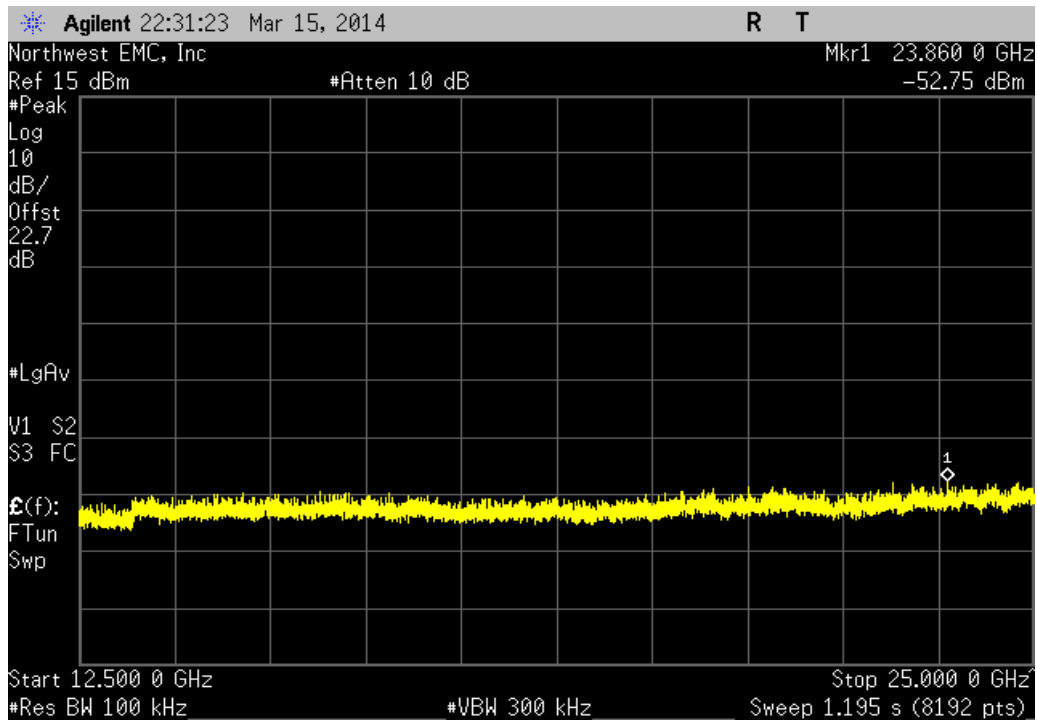
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



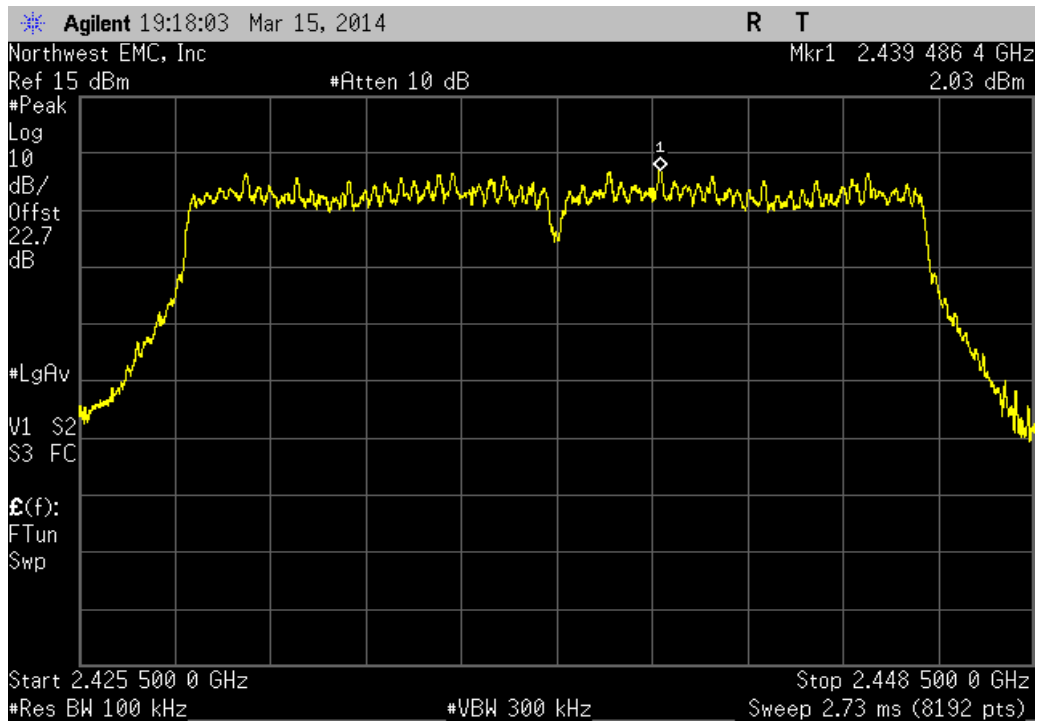
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.64 dBc	≤ -20 dBc	Pass



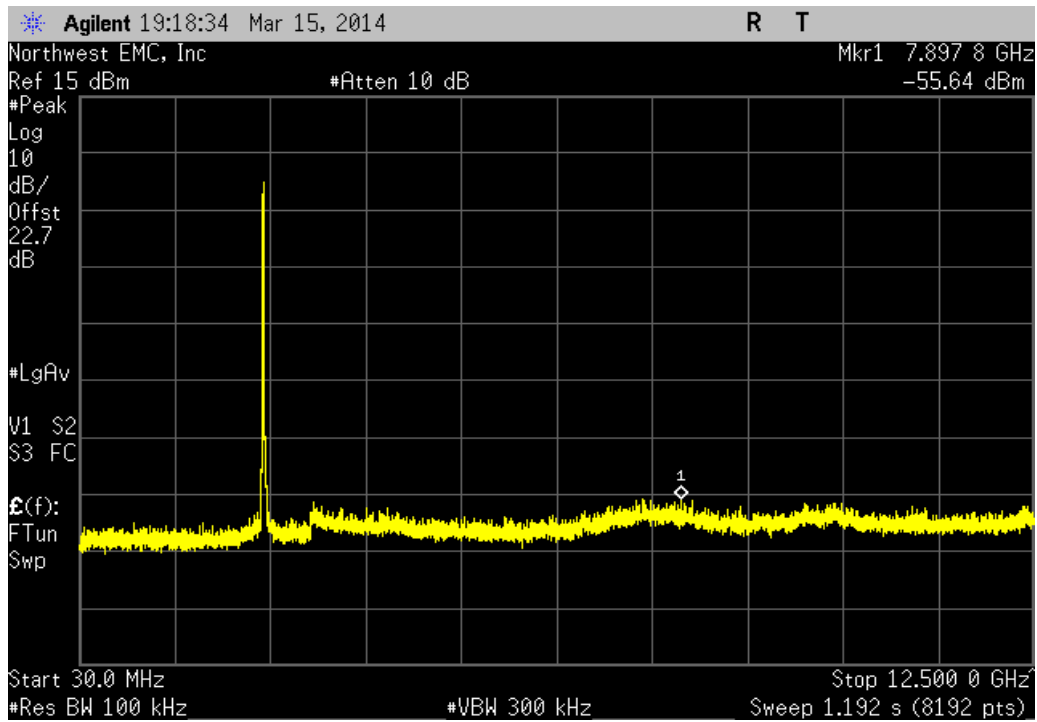
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.67 dBc	≤ -20 dBc	Pass



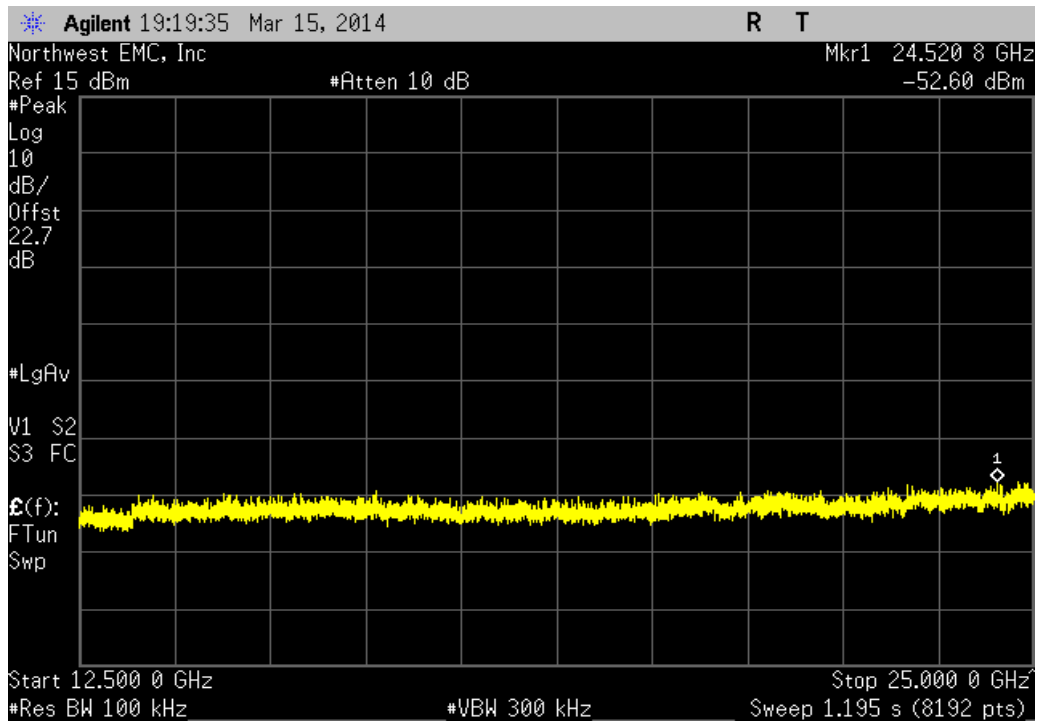
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



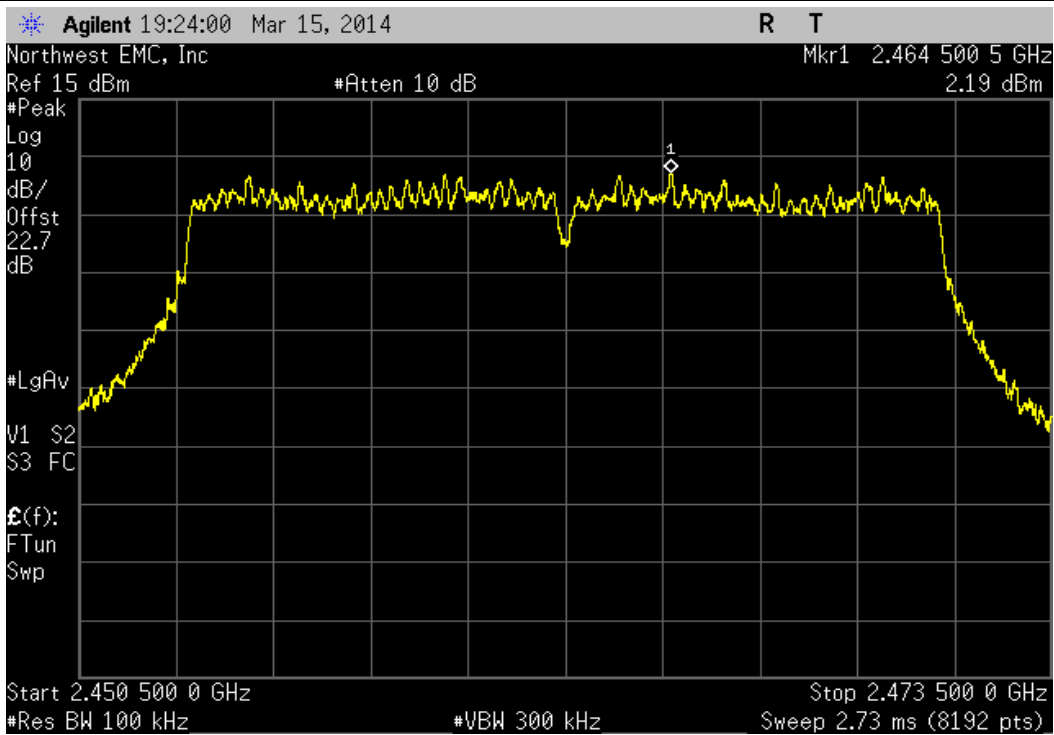
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-57.67 dBc	≤ -20 dBc	Pass



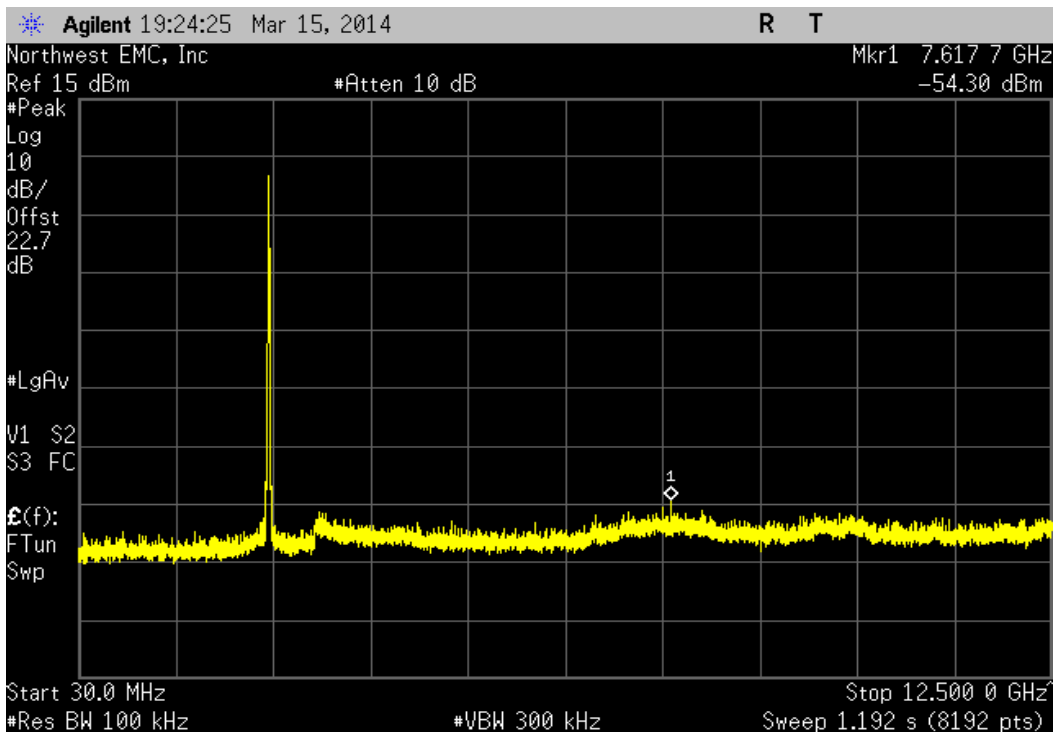
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.63 dBc	≤ -20 dBc	Pass



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



20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-56.49 dBc	≤ -20 dBc	Pass		



20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency		Value	Limit	Result
Range				
12.5 GHz - 25 GHz		-53.53 dBc	≤ -20 dBc	Pass

