

Spurious Conducted Emissions - Antenna A-B

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Fairview Microwave	SA4014-20	TKE	2/12/2013	12
Signal Generator	Agilent	N5183A	TIA	1/27/2012	36
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24
NC02 Cable	ESM Cable Corp	TBBK-141 KMKM-72	NC5	7/3/2013	12

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.

DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.



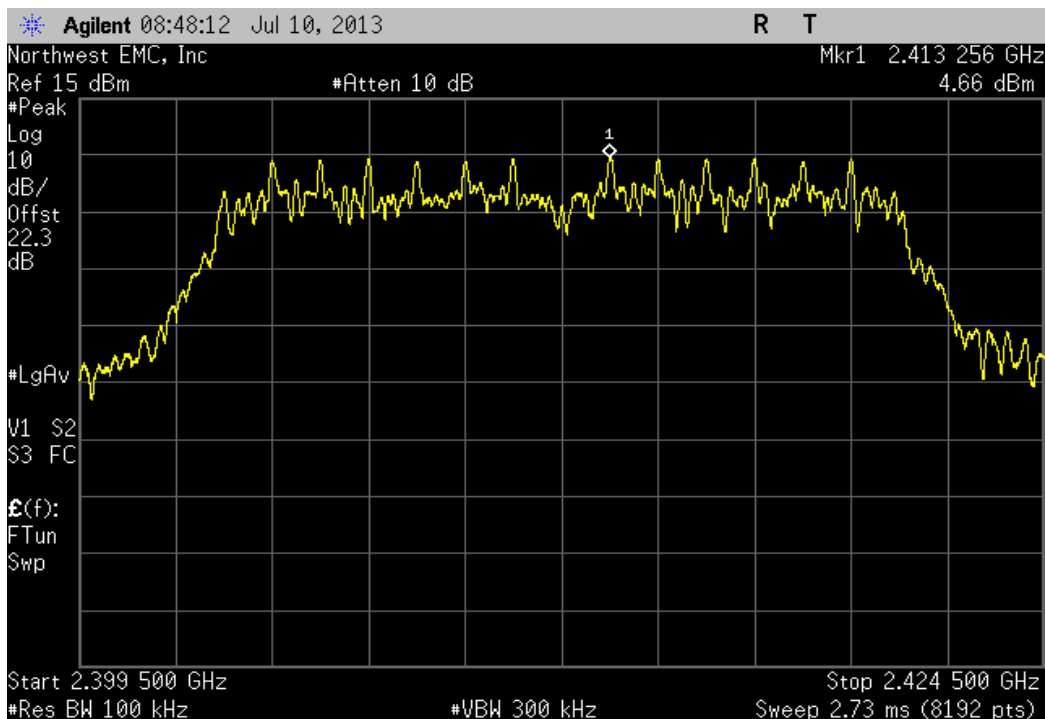
Spurious Conducted Emissions - Antenna A-B

XMIT 2013.02.28
PsaTx 2013.06.07

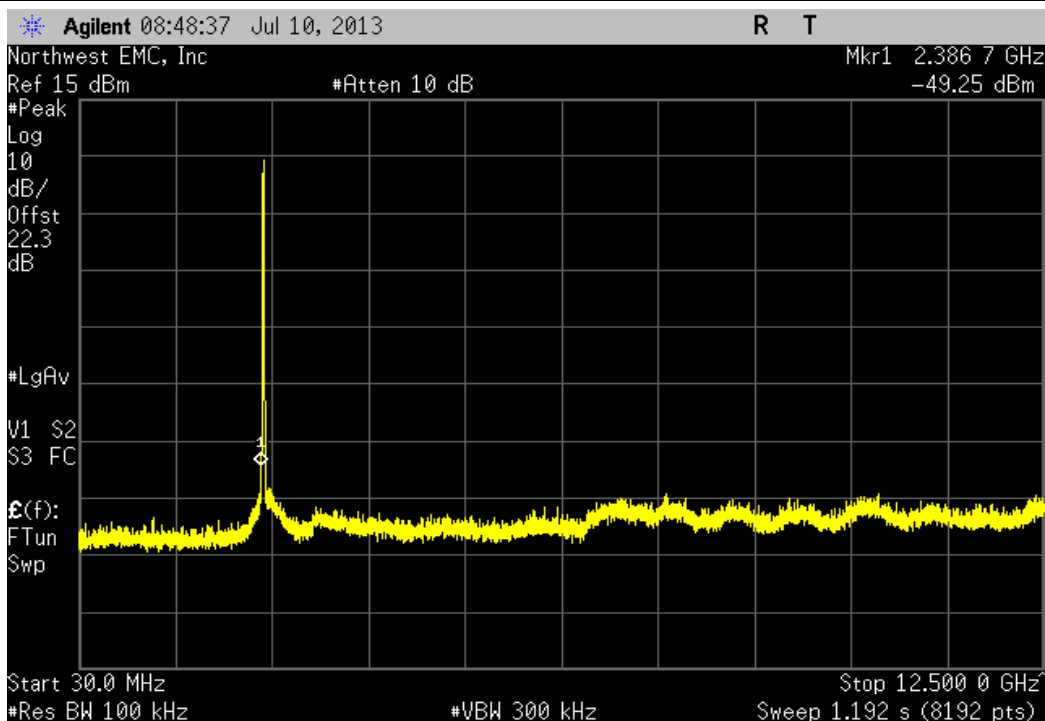
EUT: 1601		Work Order: MCSO1665	
Serial Number: 006079632553		Date: 07/10/13	
Customer: Microsoft Corporation		Temperature: 23°C	
Attendees: None		Humidity: 44%	
Project: None		Barometric Pres.: 1018	
Tested by: Brandon Hobbs and Matthew Barnes		Power: 110VAC/60Hz	
		Job Site: NC02	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2013		ANSI C63.10:2009	
COMMENTS			
EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature 	
		Frequency Range	Value Limit Result
Chain A			
20 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(n) MCS8			
Low Channel 1, 2412 MHz		Fundamental	N/A N/A N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-53.91 dBc ≤ -20 dBc Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-53.16 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	-59.24 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-55.1 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	-58.57 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.97 dBc ≤ -20 dBc Pass
802.11(n) MCS15			
Low Channel 1, 2412 MHz		Fundamental	N/A N/A N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-52.65 dBc ≤ -20 dBc Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-54.91 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	-59.58 dBc ≤ -20 dBc Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-54.46 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	-58.87 dBc ≤ -20 dBc Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.33 dBc ≤ -20 dBc Pass
5725 MHz - 5850 MHz Band			
802.11(n) MCS8			
Low Channel 149, 5745 MHz		Fundamental	N/A N/A N/A
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-49.59 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-48.44 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-45.68 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-36.64 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		Fundamental	N/A N/A N/A
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-51.58 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-49.58 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-46.86 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-36.32 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		Fundamental	N/A N/A N/A
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-52.2 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-47.46 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-44.98 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-35.41 dBc ≤ -20 dBc Pass
802.11(n) MCS15			
Low Channel 149, 5745 MHz		Fundamental	N/A N/A N/A
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-50.59 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-47.99 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-46.12 dBc ≤ -20 dBc Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-36.81 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		Fundamental	N/A N/A N/A
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-51.19 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-49.28 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-45.4 dBc ≤ -20 dBc Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-36.47 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		Fundamental	N/A N/A N/A
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-52.02 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-46.52 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-45.38 dBc ≤ -20 dBc Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-36.03 dBc ≤ -20 dBc Pass
40 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(n) MCS8			
Low Channel 1/5, 2422 MHz		Fundamental	N/A N/A N/A
Low Channel 1/5, 2422 MHz		30 MHz - 12.5 GHz	-45.08 dBc ≤ -20 dBc Pass
Low Channel 1/5, 2422 MHz		12.5 GHz - 25 GHz	-52.82 dBc ≤ -20 dBc Pass
Mid Channel 4/8, 2437 MHz		Fundamental	N/A N/A N/A
Mid Channel 4/8, 2437 MHz		30 MHz - 12.5 GHz	-56.75 dBc ≤ -20 dBc Pass
Mid Channel 4/8, 2437 MHz		12.5 GHz - 25 GHz	-52.23 dBc ≤ -20 dBc Pass
High Channel 7/11, 2452 MHz		Fundamental	N/A N/A N/A
High Channel 7/11, 2452 MHz		30 MHz - 12.5 GHz	-52.71 dBc ≤ -20 dBc Pass
High Channel 7/11, 2452 MHz		12.5 GHz - 25 GHz	-51.75 dBc ≤ -20 dBc Pass
802.11(n) MCS15			
Low Channel 1/5, 2422 MHz		Fundamental	N/A N/A N/A
Low Channel 1/5, 2422 MHz		30 MHz - 12.5 GHz	-44.08 dBc ≤ -20 dBc Pass
Low Channel 1/5, 2422 MHz		12.5 GHz - 25 GHz	-51.86 dBc ≤ -20 dBc Pass
Mid Channel 4/8, 2437 MHz		Fundamental	N/A N/A N/A
Mid Channel 4/8, 2437 MHz		30 MHz - 12.5 GHz	-40.9 dBc ≤ -20 dBc Pass
Mid Channel 4/8, 2437 MHz		12.5 GHz - 25 GHz	-52.32 dBc ≤ -20 dBc Pass
High Channel 7/11, 2452 MHz		Fundamental	N/A N/A N/A
High Channel 7/11, 2452 MHz		30 MHz - 12.5 GHz	-51.09 dBc ≤ -20 dBc Pass
High Channel 7/11, 2452 MHz		12.5 GHz - 25 GHz	-50.86 dBc ≤ -20 dBc Pass
5725 MHz - 5850 MHz Band			
802.11(n) MCS8			
Low Channel 149/153, 5755 MHz		Fundamental	N/A N/A N/A
Low Channel 149/153, 5755 MHz		30 MHz - 12.5 GHz	-47.85 dBc ≤ -20 dBc Pass
Low Channel 149/153, 5755 MHz		12.5 GHz - 25 GHz	-46.2 dBc ≤ -20 dBc Pass
Low Channel 149/153, 5755 MHz		25 GHz - 32 GHz	-43 dBc ≤ -20 dBc Pass
Low Channel 149/153, 5755 MHz		32 GHz - 40 GHz	-33.16 dBc ≤ -20 dBc Pass
High Channel 157/161, 5795 MHz		Fundamental	N/A N/A N/A
High Channel 157/161, 5795 MHz		30 MHz - 12.5 GHz	-49.87 dBc ≤ -20 dBc Pass
High Channel 157/161, 5795 MHz		12.5 GHz - 25 GHz	-46.21 dBc ≤ -20 dBc Pass
High Channel 157/161, 5795 MHz		25 GHz - 32 GHz	-43.2 dBc ≤ -20 dBc Pass
High Channel 157/161, 5795 MHz		32 GHz - 40 GHz	-33.62 dBc ≤ -20 dBc Pass

		Frequency Range	Value	Limit	Result
Chain B					
20 MHz					
2400 MHz - 2483.5 MHz Band					
802.11(n) MCS15					
Low Channel 149/153, 5755 MHz		Fundamental	N/A	N/A	N/A
Low Channel 149/153, 5755 MHz		30 MHz - 12.5 GHz	-47.54 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		12.5 GHz - 25 GHz	-45.75 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		25 GHz - 32 GHz	-42.85 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		32 GHz - 40 GHz	-33.5 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		Fundamental	N/A	N/A	N/A
High Channel 157/161, 5795 MHz		30 MHz - 12.5 GHz	-49.11 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		12.5 GHz - 25 GHz	-46.4 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		25 GHz - 32 GHz	-43.37 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		32 GHz - 40 GHz	-34.07 dBc	≤ -20 dBc	Pass
802.11(n) MCS8					
Low Channel 1, 2412 MHz		Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-54.55 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-54.08 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	-58.04 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-53.38 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	-58.71 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.66 dBc	≤ -20 dBc	Pass
802.11(n) MCS15					
Low Channel 1, 2412 MHz		Fundamental	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	-56.47 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-53.21 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	-58.4 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-54.13 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	-58.26 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.23 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band					
802.11(n) MCS8					
Low Channel 149, 5745 MHz		Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-51.77 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-45.81 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-44.44 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-34.42 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-51.84 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-47.65 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-44.45 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-34.76 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-50.24 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-45.84 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-43.2 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-32.89 dBc	≤ -20 dBc	Pass
802.11(n) MCS15					
Low Channel 149, 5745 MHz		Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-52.31 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-46.68 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-44.66 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-35.18 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-51.72 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-47.43 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-45.23 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-34.81 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-51.22 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-45.73 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-42.77 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-33.81 dBc	≤ -20 dBc	Pass
40 MHz					
2400 MHz - 2483.5 MHz Band					
802.11(n) MCS8					
Low Channel 1/5, 2422 MHz		Fundamental	N/A	N/A	N/A
Low Channel 1/5, 2422 MHz		30 MHz - 12.5 GHz	-46.88 dBc	≤ -20 dBc	Pass
Low Channel 1/5, 2422 MHz		12.5 GHz - 25 GHz	-50.48 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz		Fundamental	N/A	N/A	N/A
Mid Channel 4/8, 2437 MHz		30 MHz - 12.5 GHz	-56.08 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz		12.5 GHz - 25 GHz	-50.31 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz		Fundamental	N/A	N/A	N/A
High Channel 7/11, 2452 MHz		30 MHz - 12.5 GHz	-55.71 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz		12.5 GHz - 25 GHz	-51.17 dBc	≤ -20 dBc	Pass
802.11(n) MCS15					
Low Channel 1/5, 2422 MHz		Fundamental	N/A	N/A	N/A
Low Channel 1/5, 2422 MHz		30 MHz - 12.5 GHz	-45.4 dBc	≤ -20 dBc	Pass
Low Channel 1/5, 2422 MHz		12.5 GHz - 25 GHz	-50.6 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz		Fundamental	N/A	N/A	N/A
Mid Channel 4/8, 2437 MHz		30 MHz - 12.5 GHz	-54.54 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz		12.5 GHz - 25 GHz	-51.21 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz		Fundamental	N/A	N/A	N/A
High Channel 7/11, 2452 MHz		30 MHz - 12.5 GHz	-54.57 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz		12.5 GHz - 25 GHz	-51.25 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band					
802.11(n) MCS8					
Low Channel 149/153, 5755 MHz		Fundamental	N/A	N/A	N/A
Low Channel 149/153, 5755 MHz		30 MHz - 12.5 GHz	-49.2 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		12.5 GHz - 25 GHz	-44.93 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		25 GHz - 32 GHz	-41.85 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		32 GHz - 40 GHz	-31.98 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		Fundamental	N/A	N/A	N/A
High Channel 157/161, 5795 MHz		30 MHz - 12.5 GHz	-49.02 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		12.5 GHz - 25 GHz	-44.69 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		25 GHz - 32 GHz	-42 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		32 GHz - 40 GHz	-31.56 dBc	≤ -20 dBc	Pass
802.11(n) MCS15					
Low Channel 149/153, 5755 MHz		Fundamental	N/A	N/A	N/A
Low Channel 149/153, 5755 MHz		30 MHz - 12.5 GHz	-48.81 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		12.5 GHz - 25 GHz	-44.52 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		25 GHz - 32 GHz	-41.58 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz		32 GHz - 40 GHz	-32.75 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		Fundamental	N/A	N/A	N/A
High Channel 157/161, 5795 MHz		30 MHz - 12.5 GHz	-49.77 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		12.5 GHz - 25 GHz	-43.19 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		25 GHz - 32 GHz	-41 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz		32 GHz - 40 GHz	-32.81 dBc	≤ -20 dBc	Pass

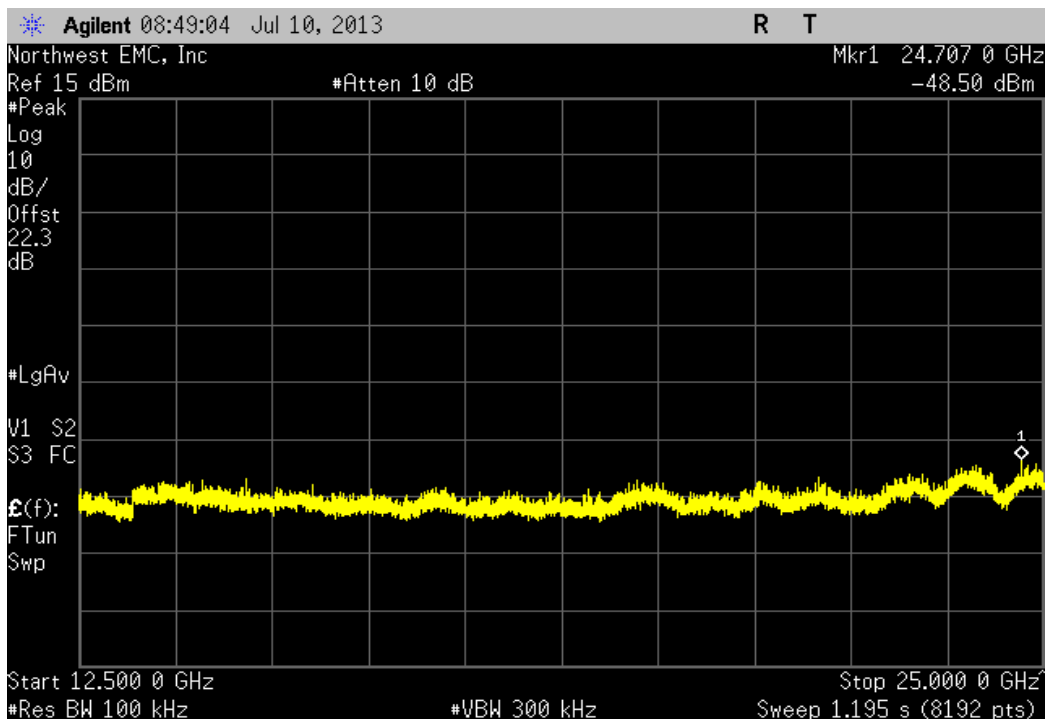
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



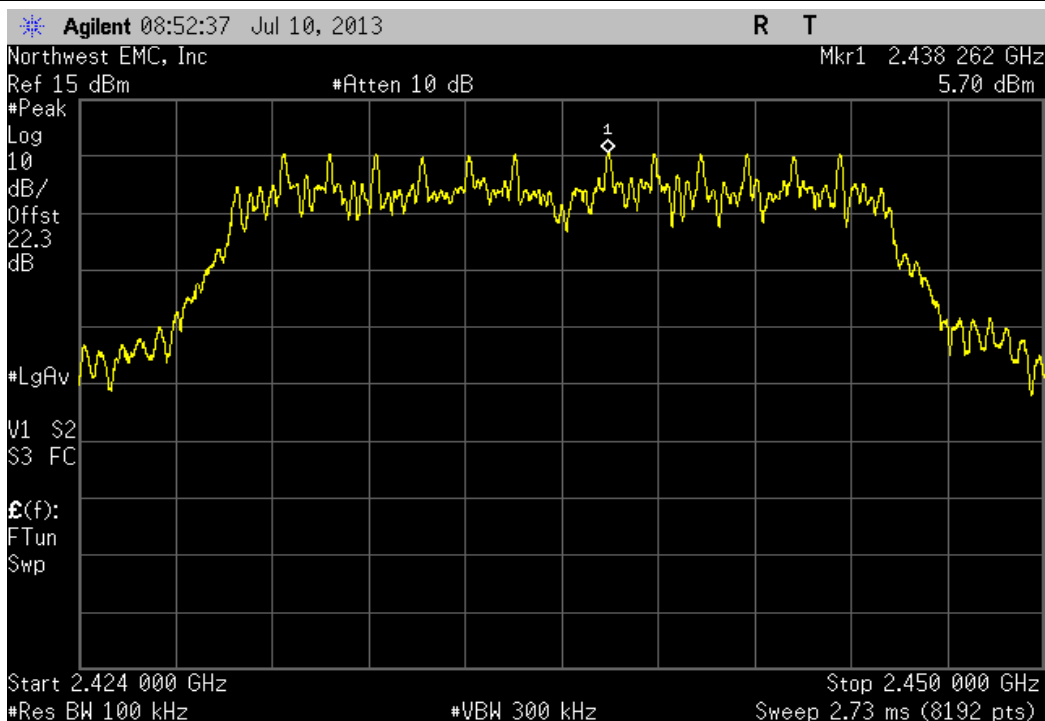
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-53.91 dBc	≤ -20 dBc	Pass



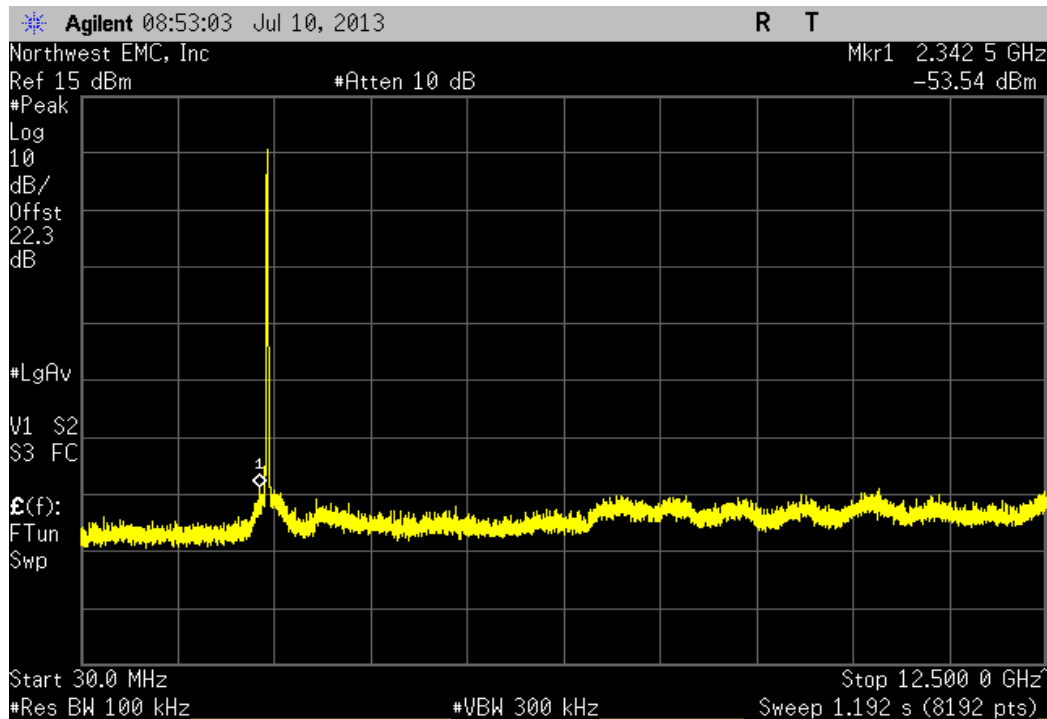
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.16 dBc	≤ -20 dBc	Pass	



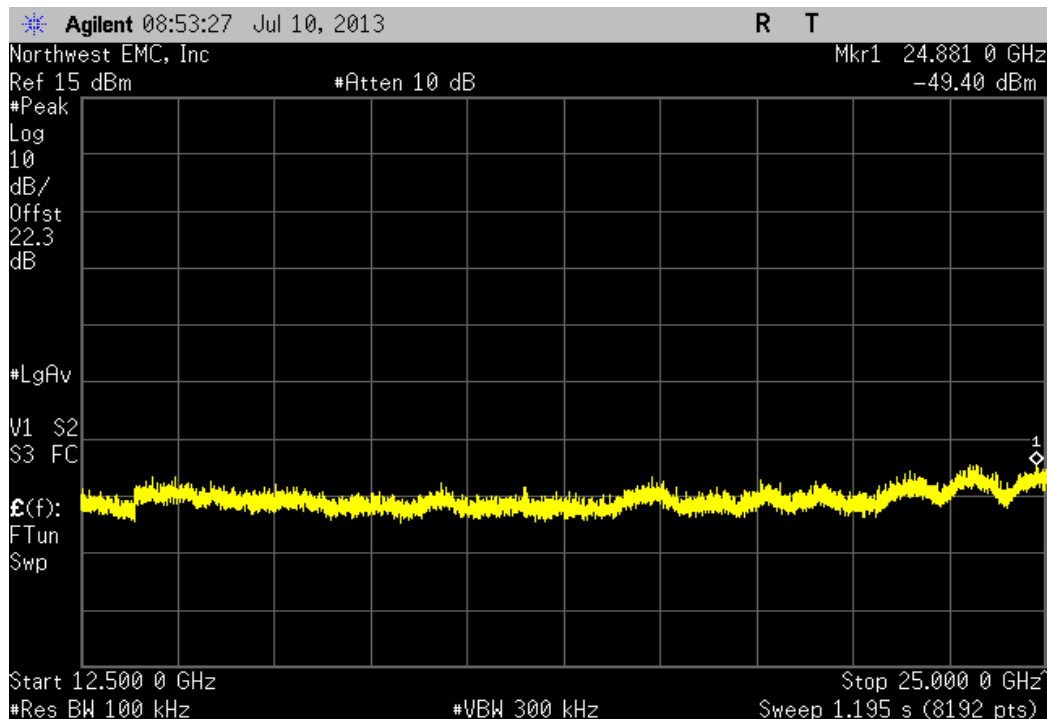
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



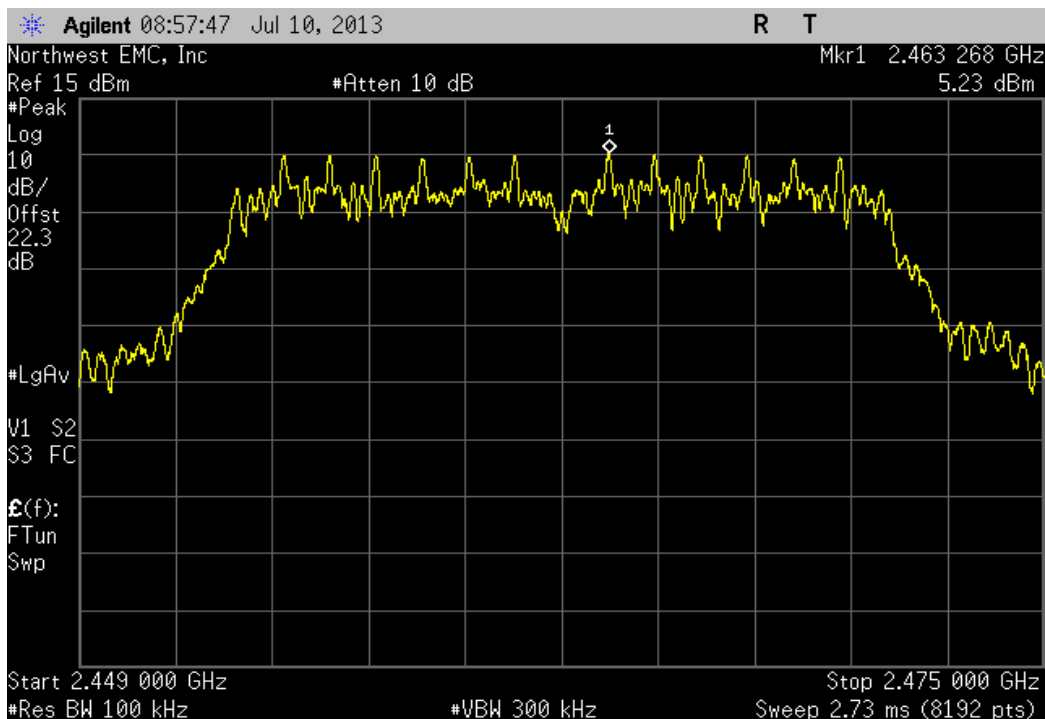
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-59.24 dBc	≤ -20 dBc	Pass	



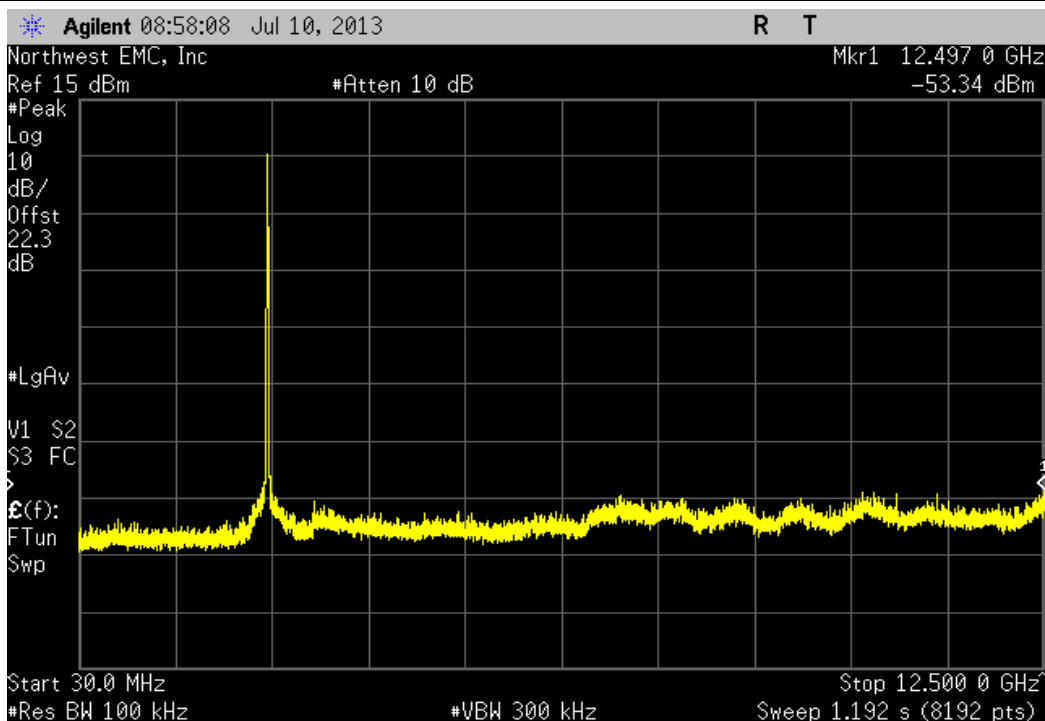
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-55.1 dBc	≤ -20 dBc	Pass	



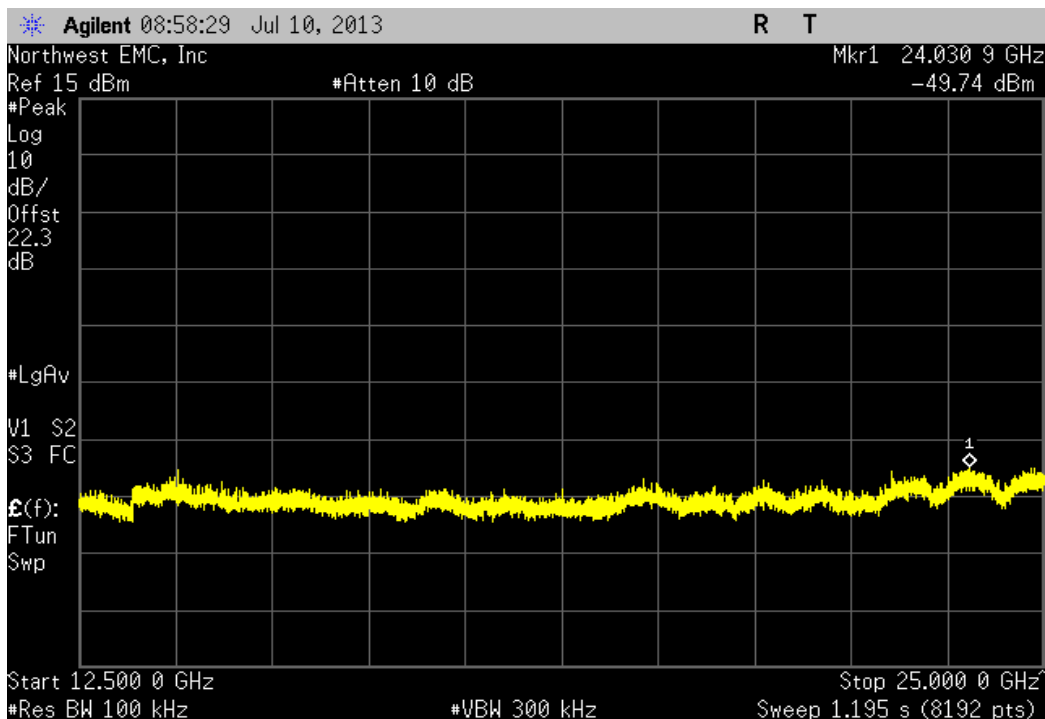
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



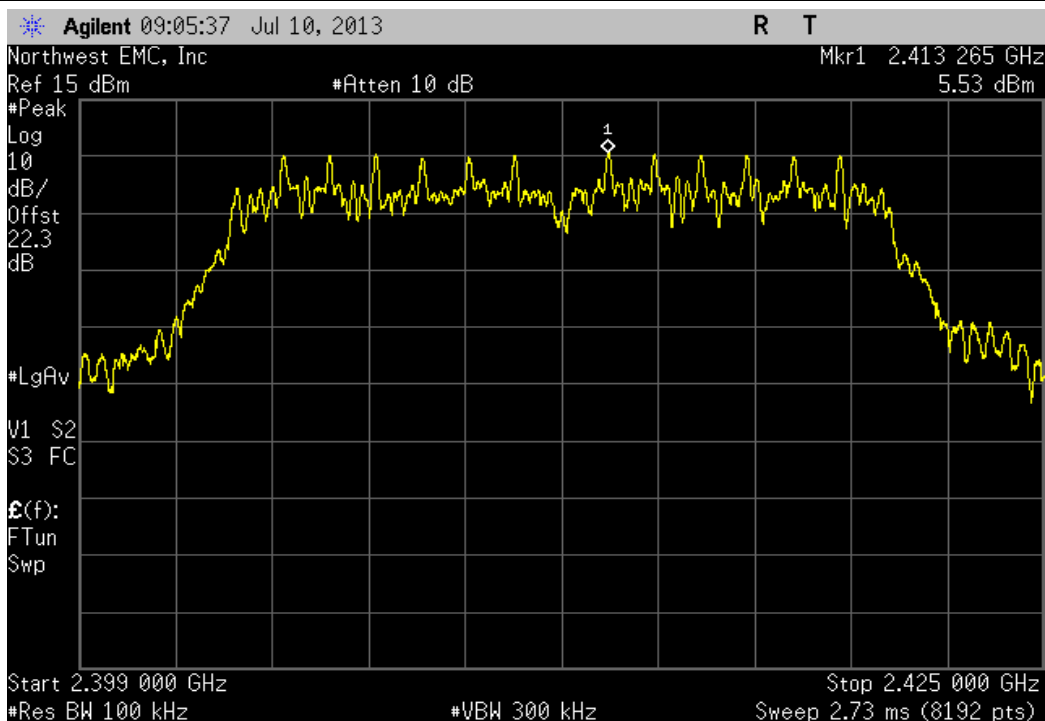
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-58.57 dBc	≤ -20 dBc	Pass



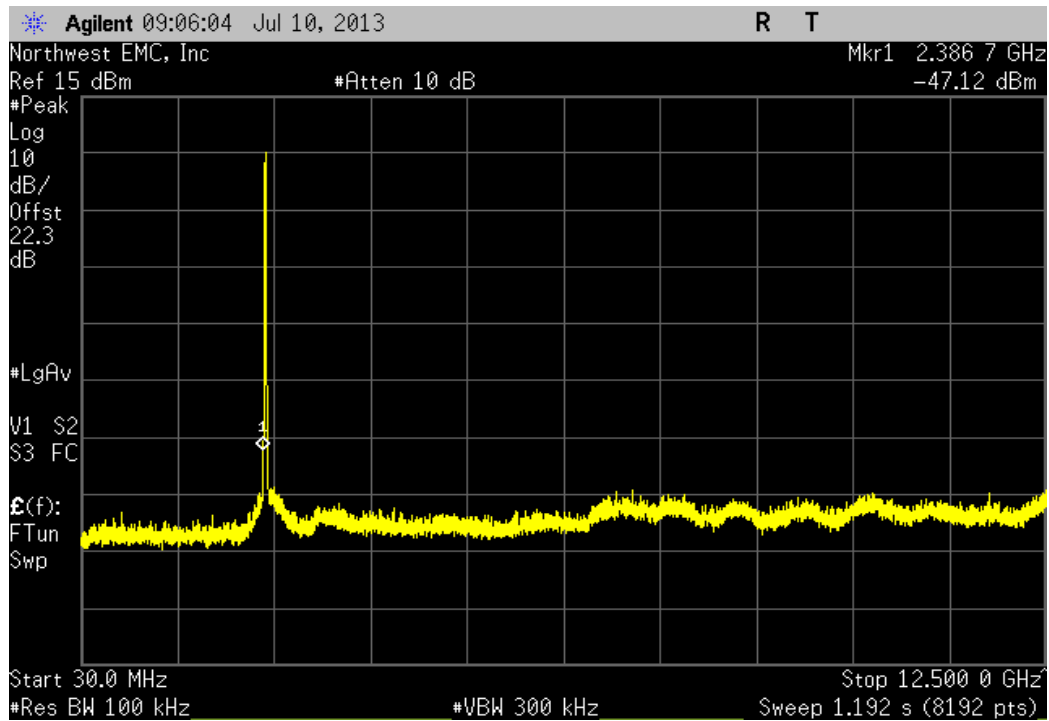
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.97 dBc	≤ -20 dBc	Pass



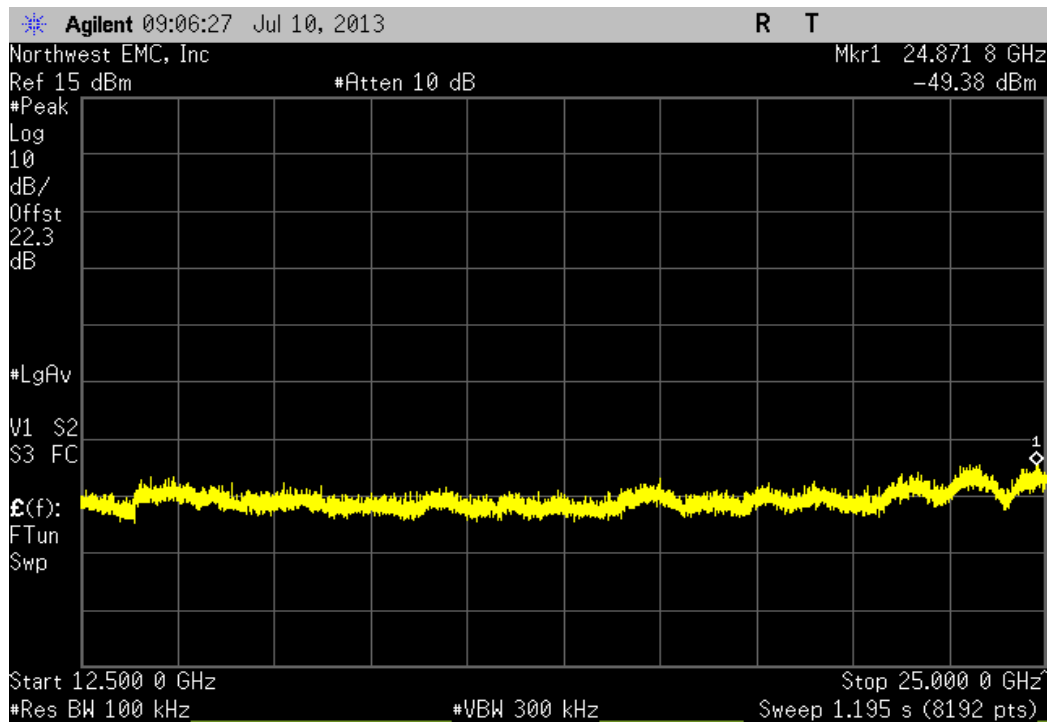
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



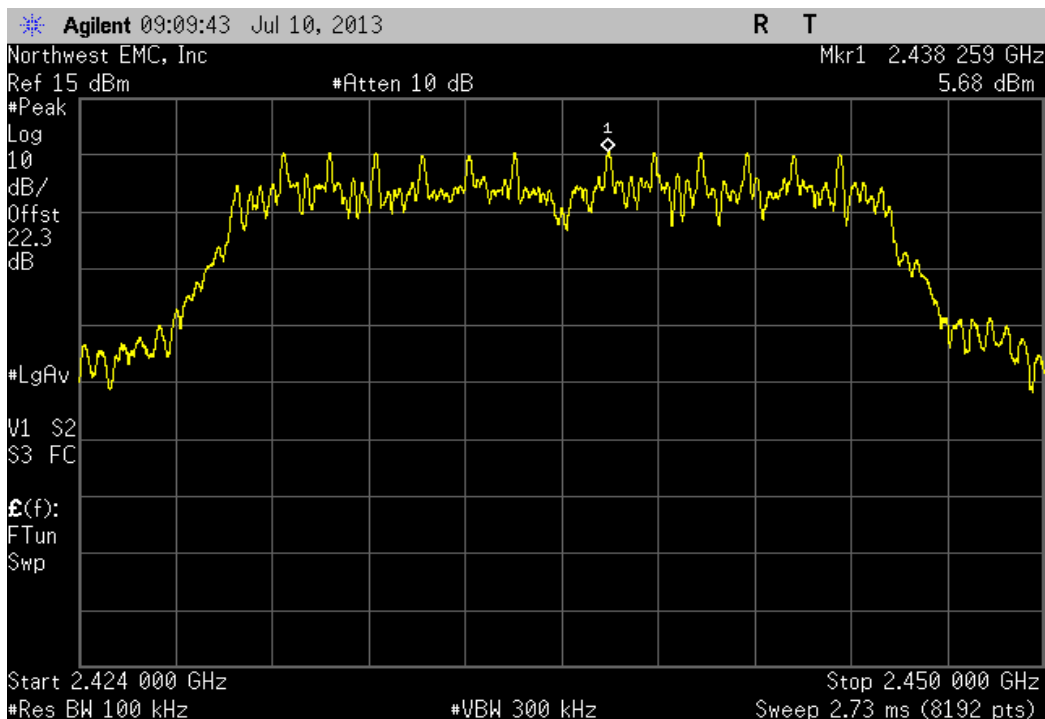
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.65 dBc	≤ -20 dBc	Pass	



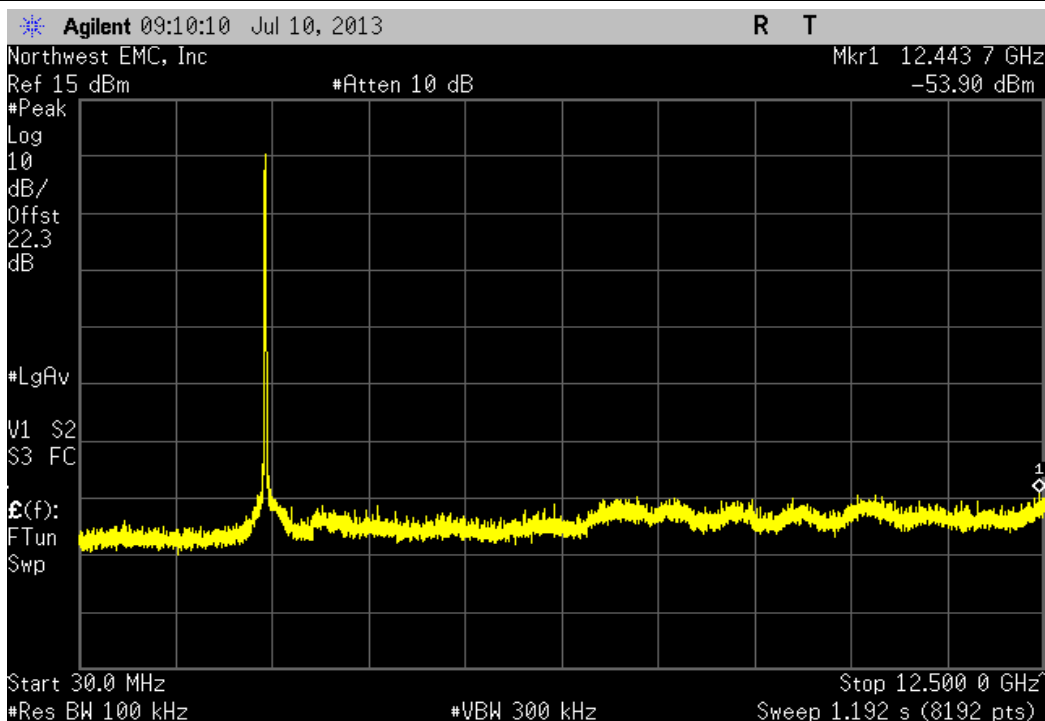
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.91 dBc	≤ -20 dBc	Pass	



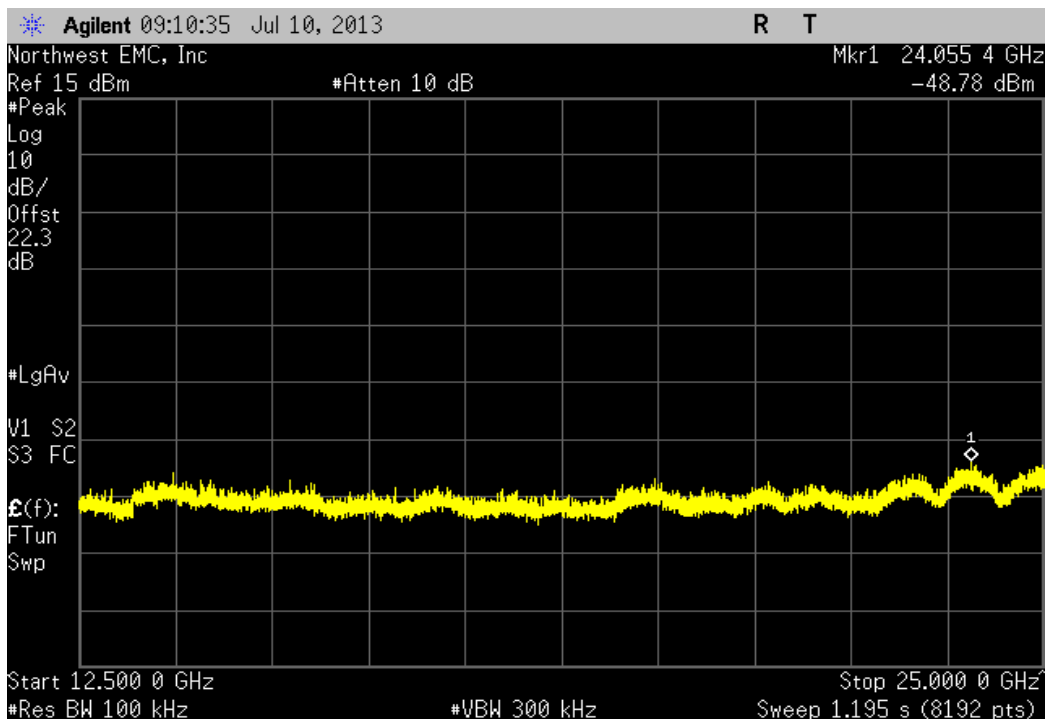
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



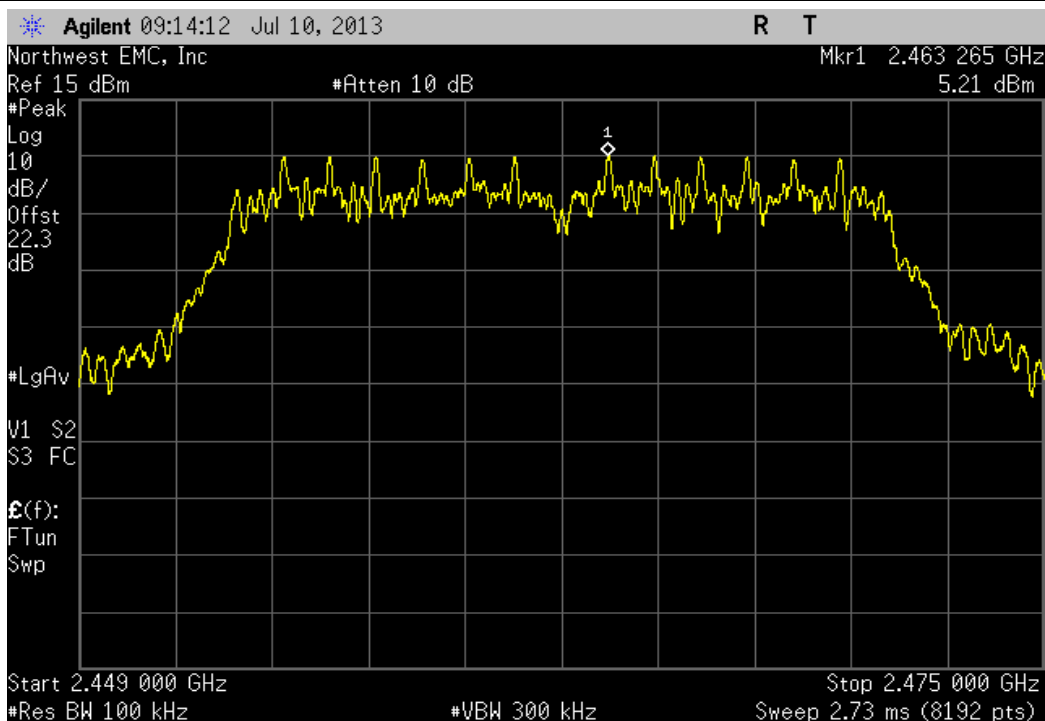
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-59.58 dBc	≤ -20 dBc	Pass



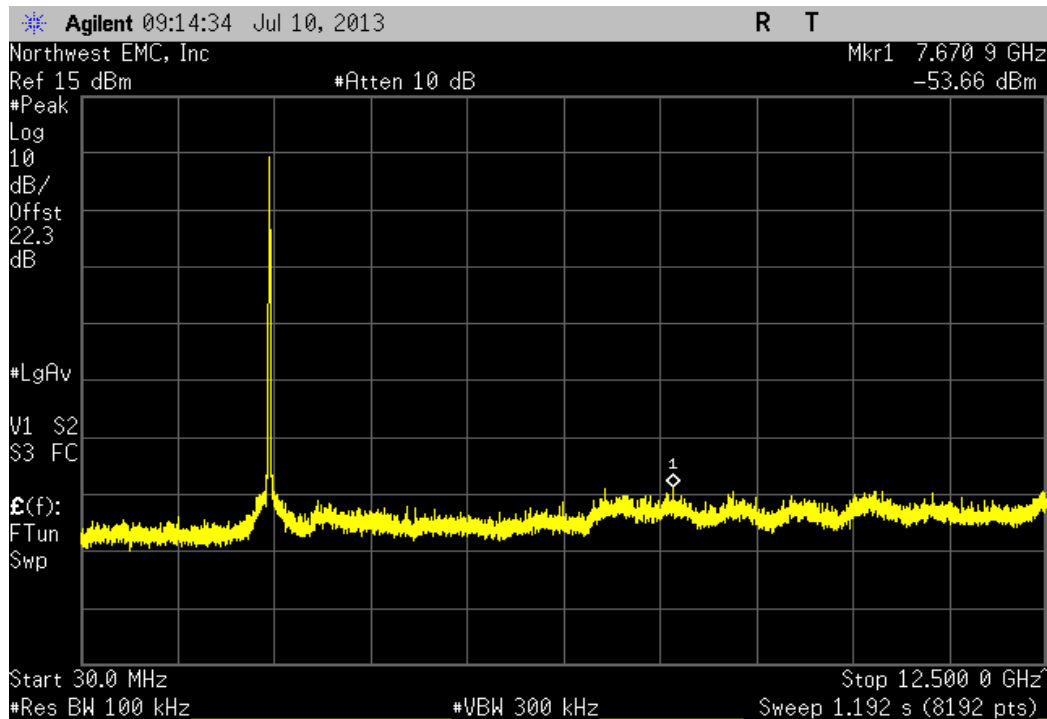
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.46 dBc	≤ -20 dBc	Pass	



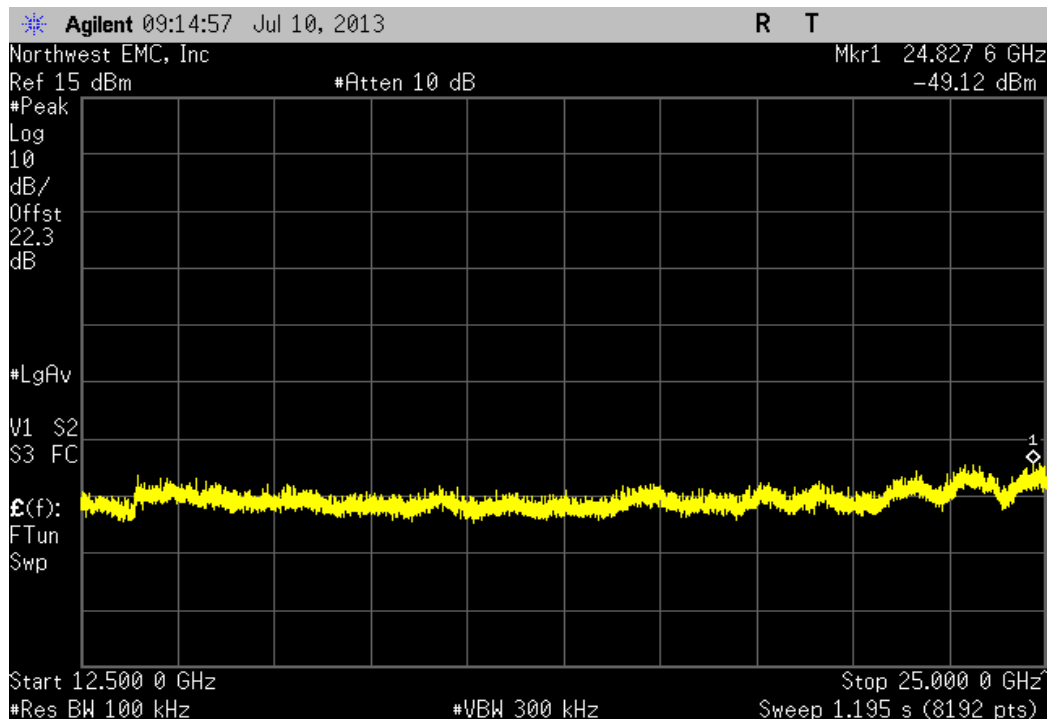
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



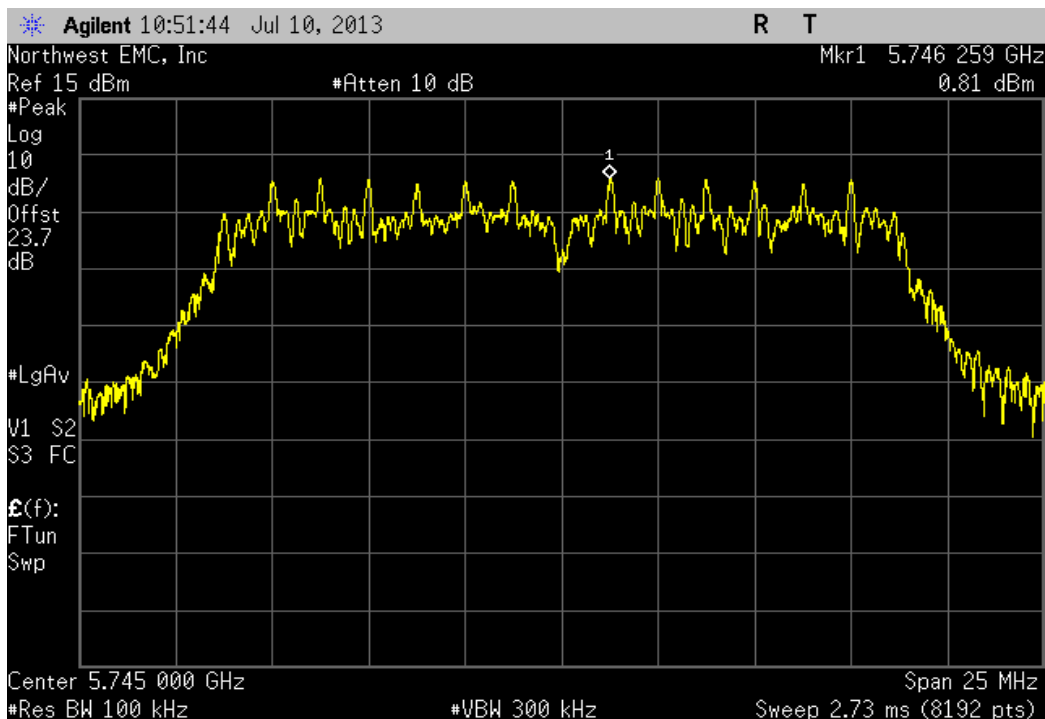
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.87 dBc	≤ -20 dBc	Pass	



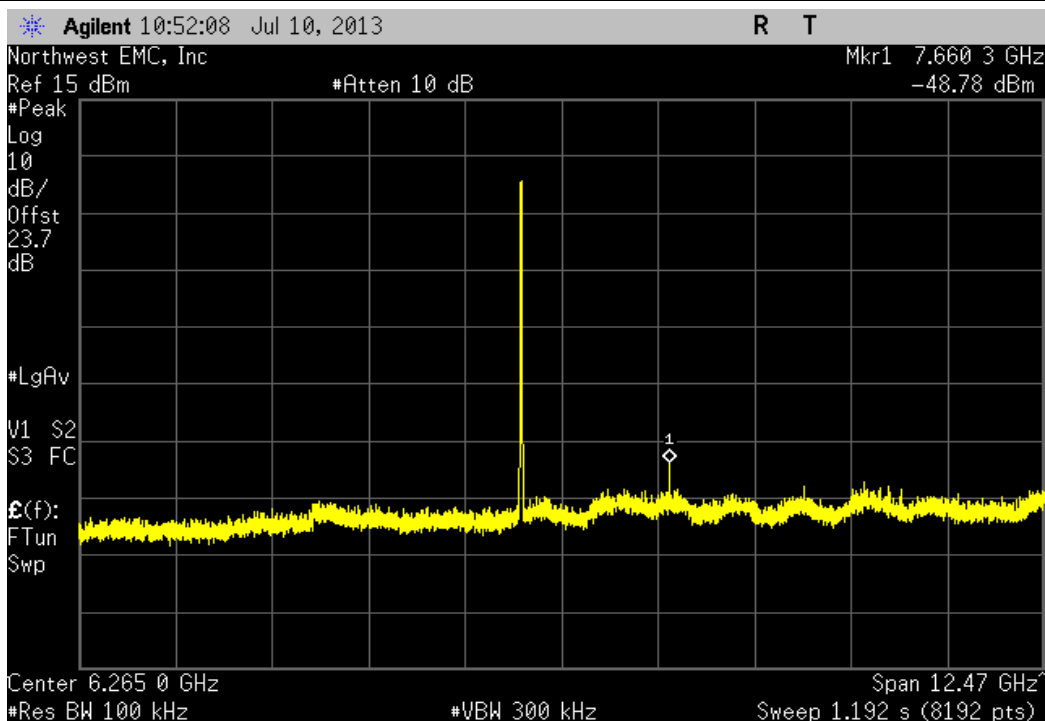
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.33 dBc	≤ -20 dBc	Pass	



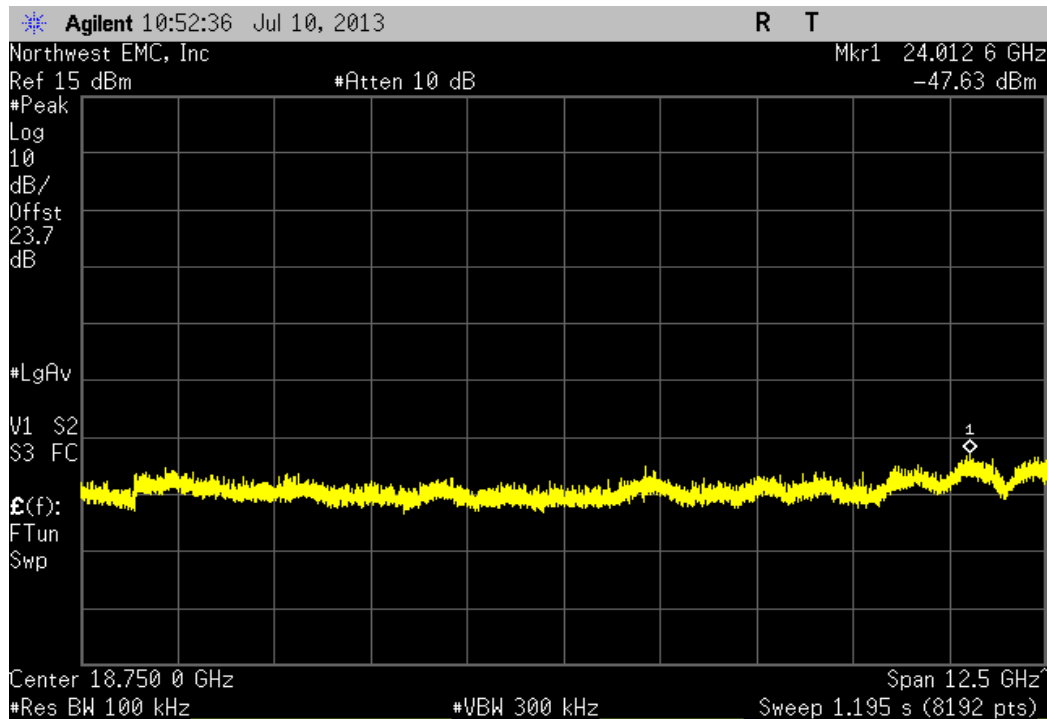
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



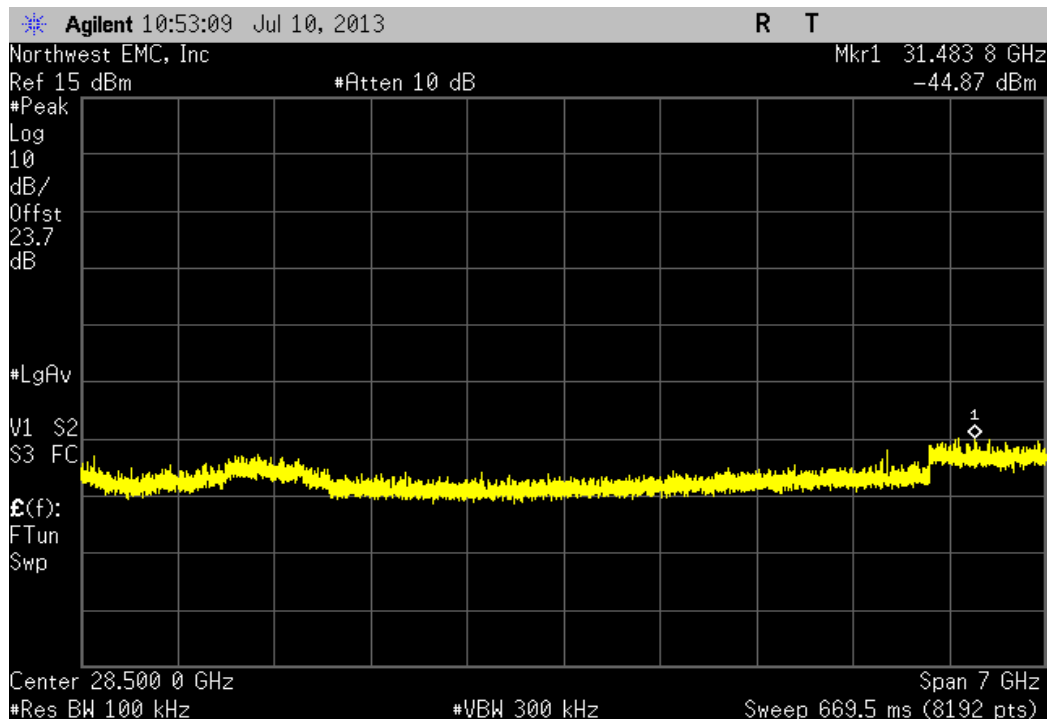
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-49.59 dBc	≤ -20 dBc	Pass



Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.44 dBc	≤ -20 dBc	Pass	

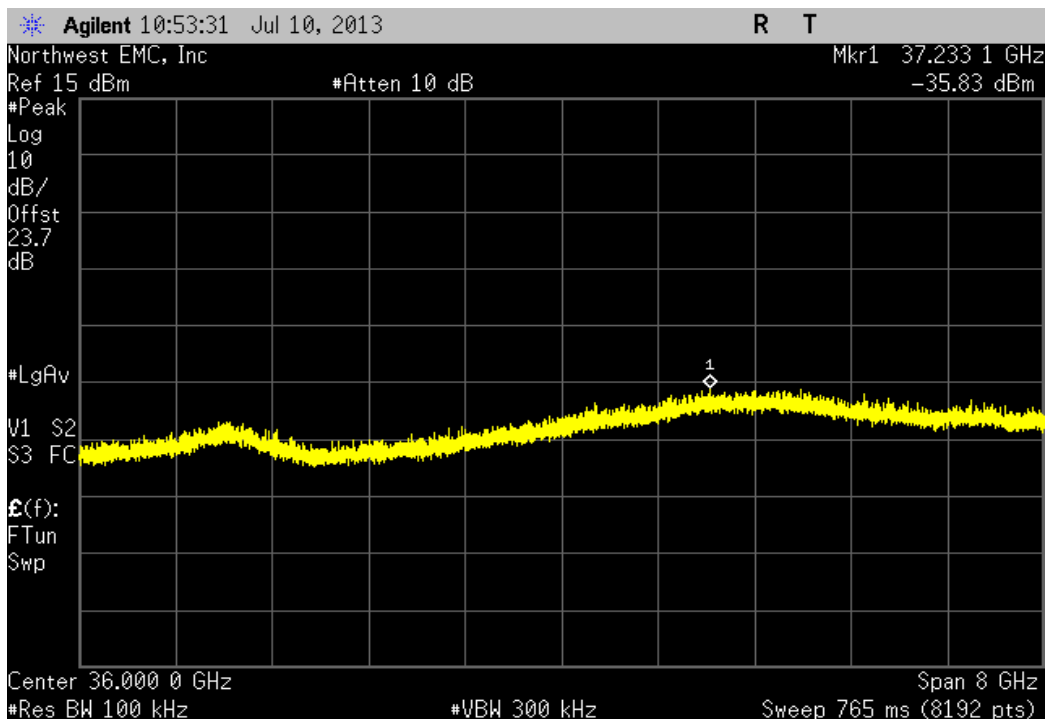


Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-45.68 dBc	≤ -20 dBc	Pass	



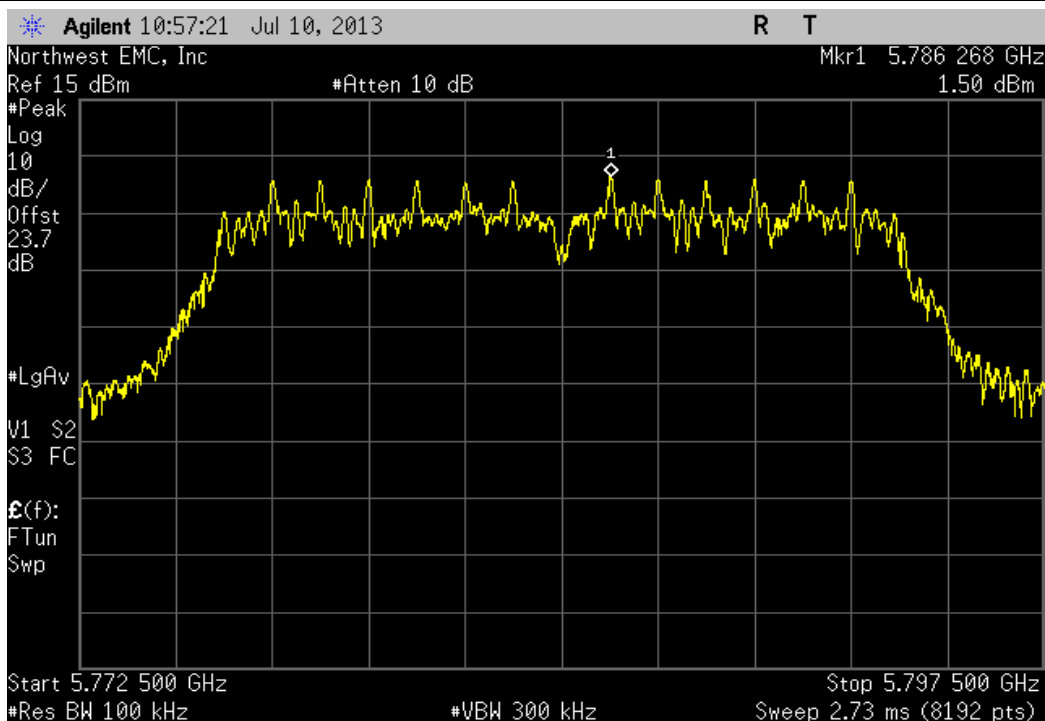
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz

Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-36.64 dBc	≤ -20 dBc	Pass

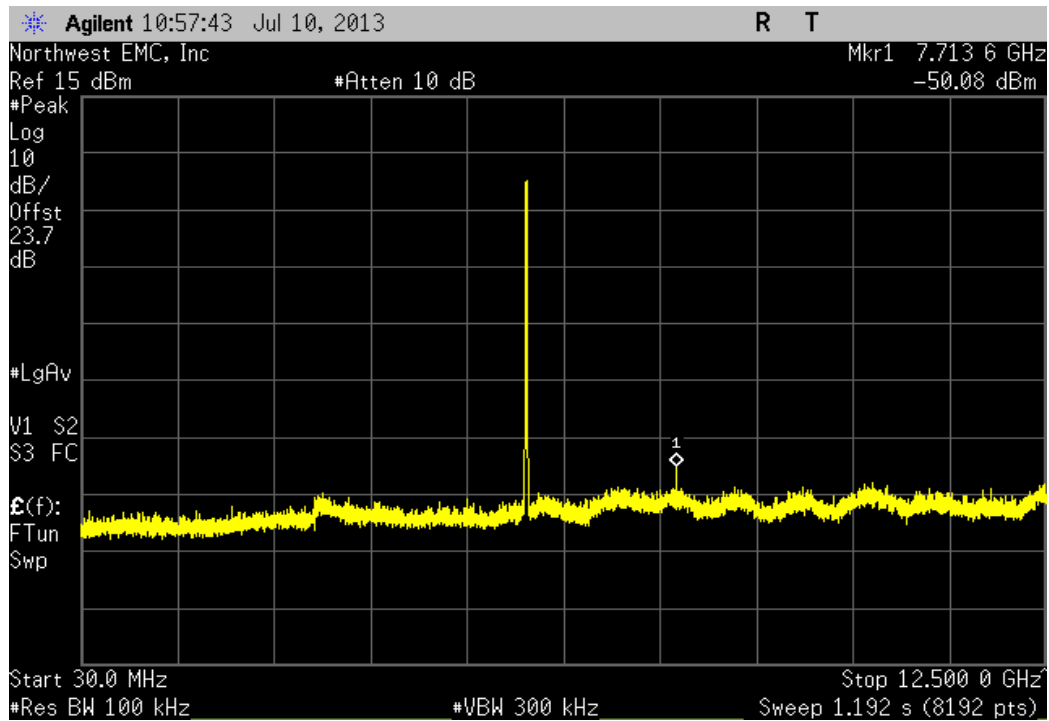


Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz

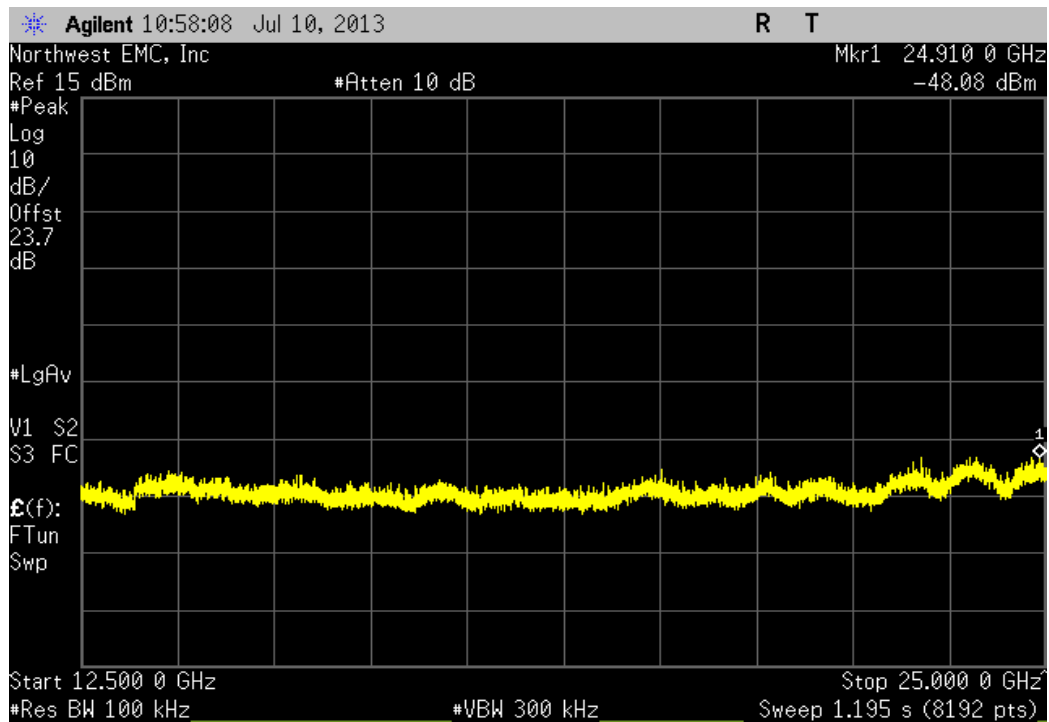
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



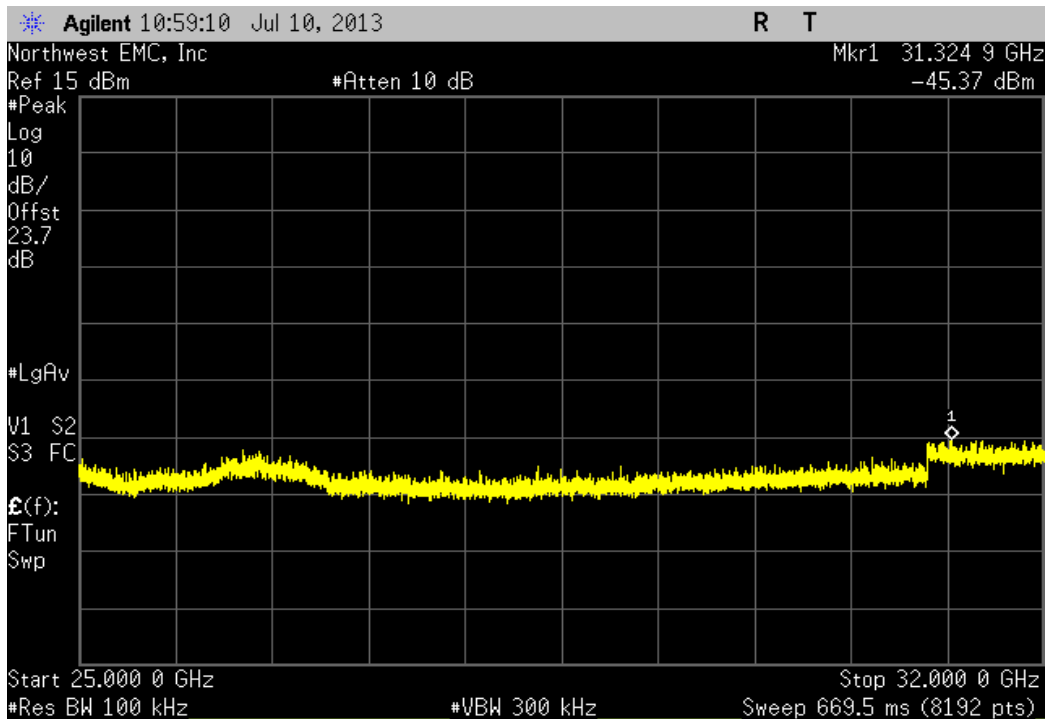
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.58 dBc	≤ -20 dBc	Pass	



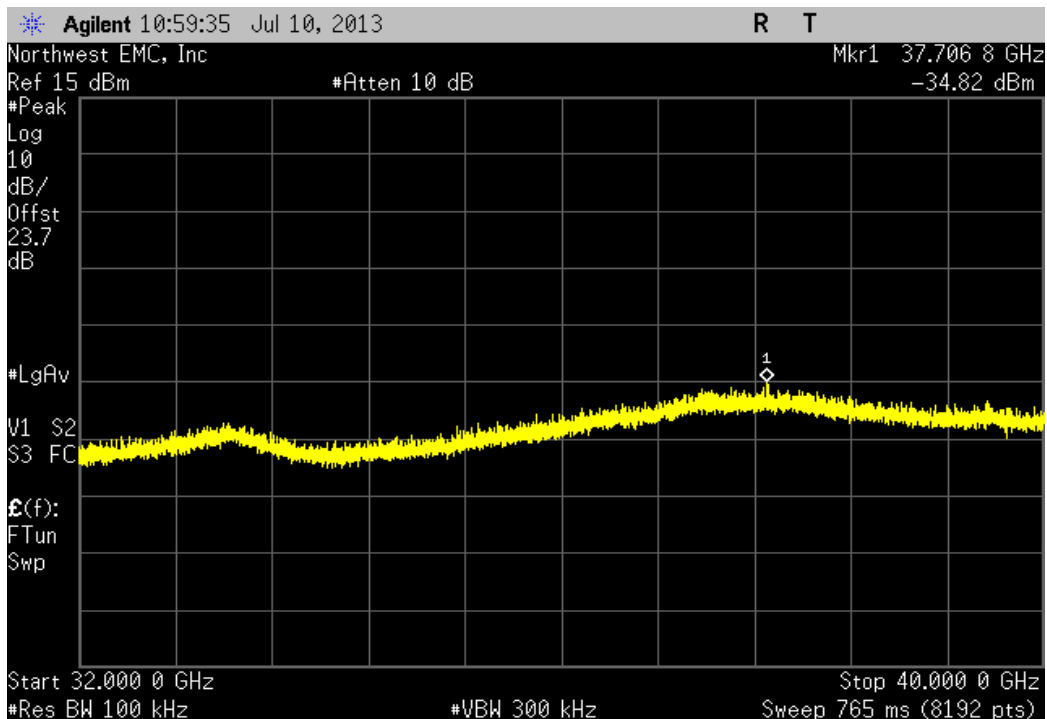
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-49.58 dBc	≤ -20 dBc	Pass	



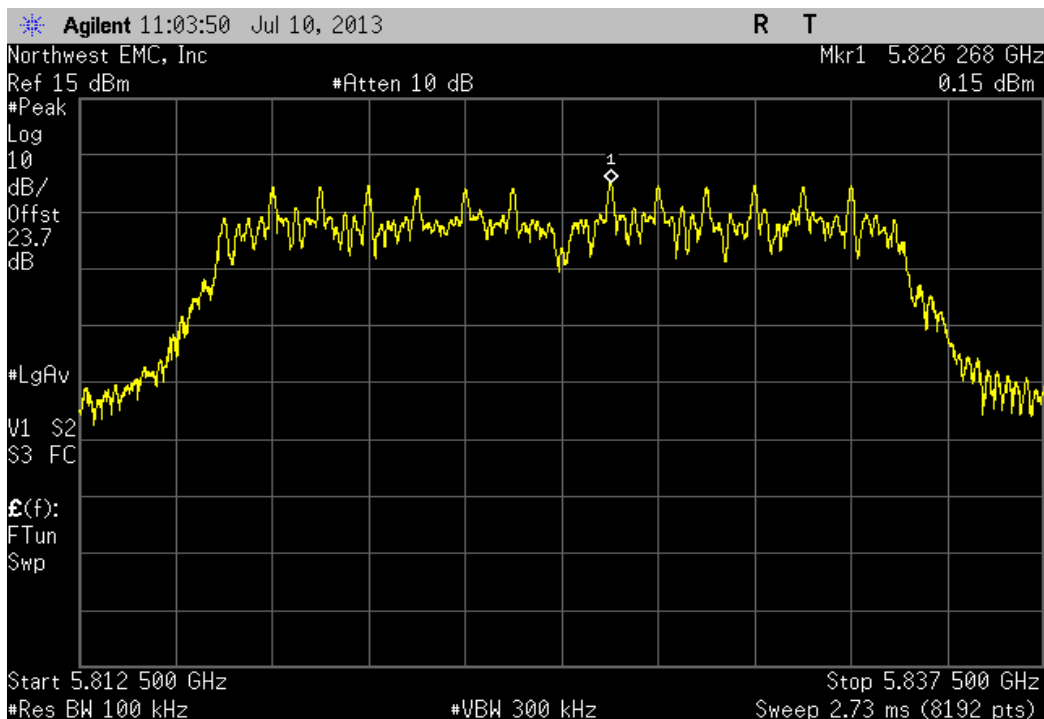
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-46.86 dBc	≤ -20 dBc	Pass	



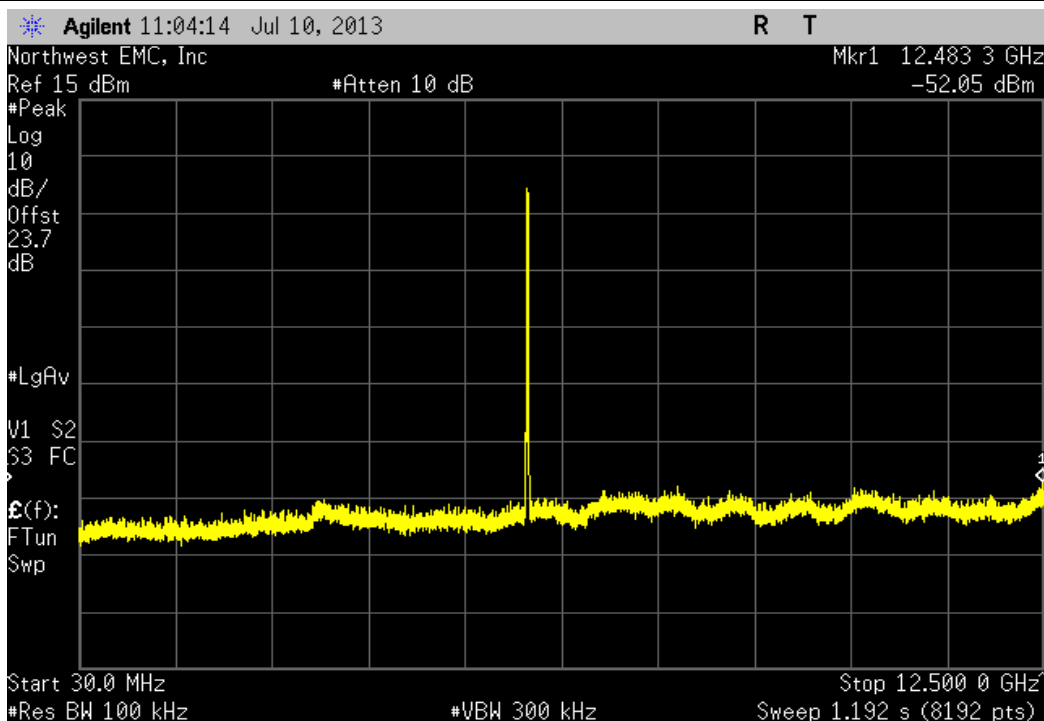
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-36.32 dBc	≤ -20 dBc	Pass	



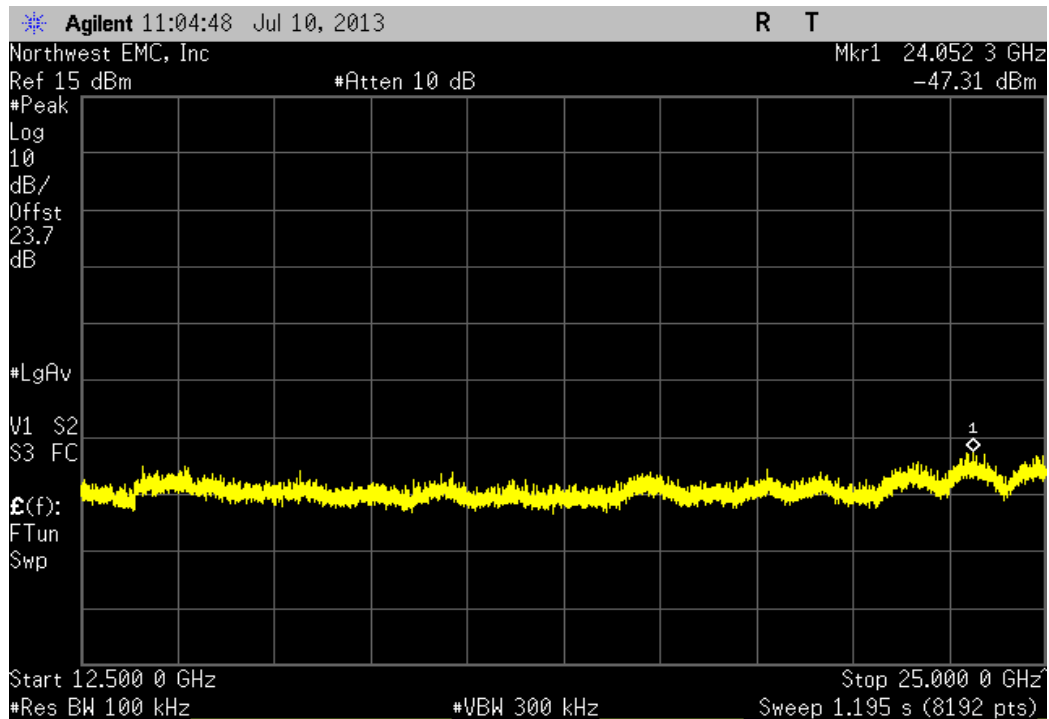
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



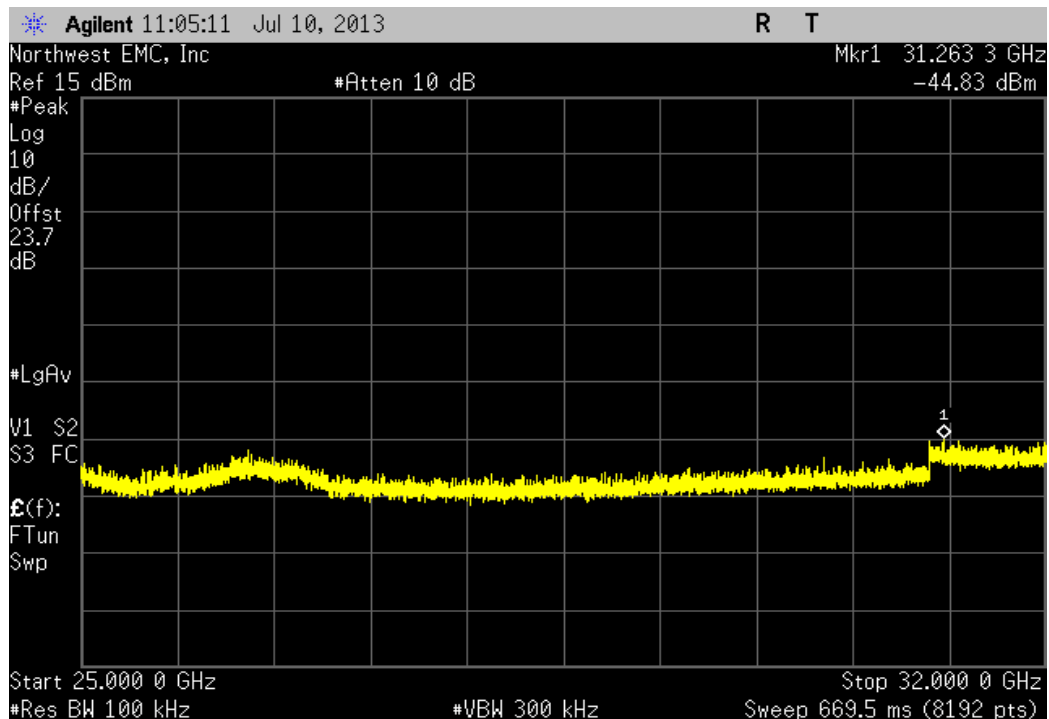
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-52.2 dBc	≤ -20 dBc	Pass



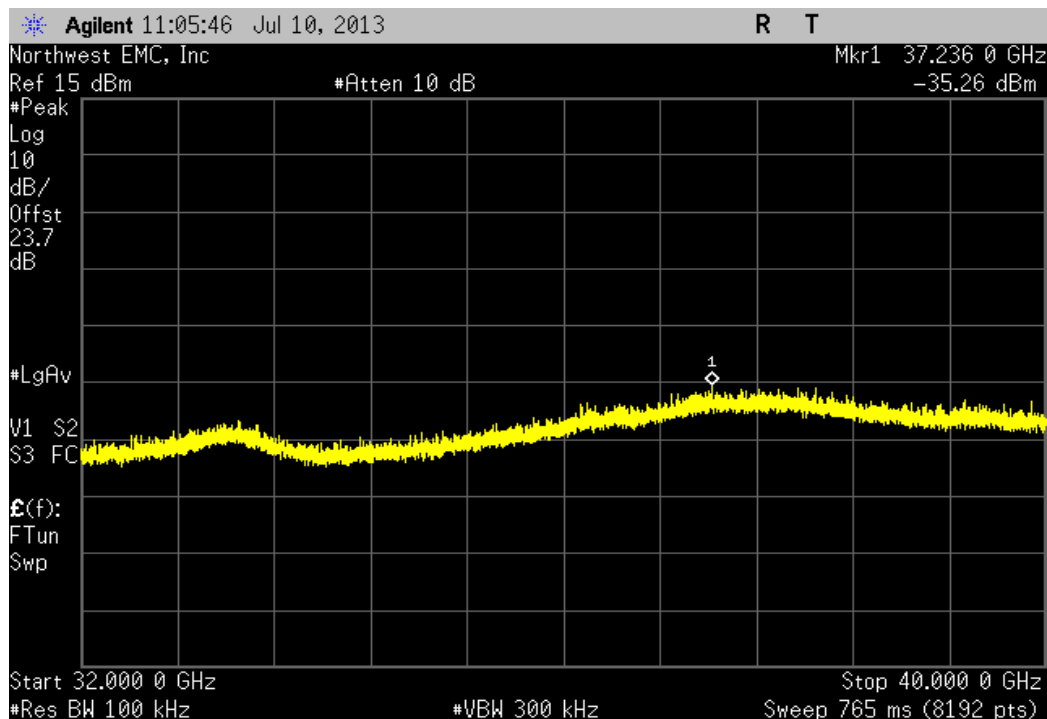
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.46 dBc	≤ -20 dBc	Pass	



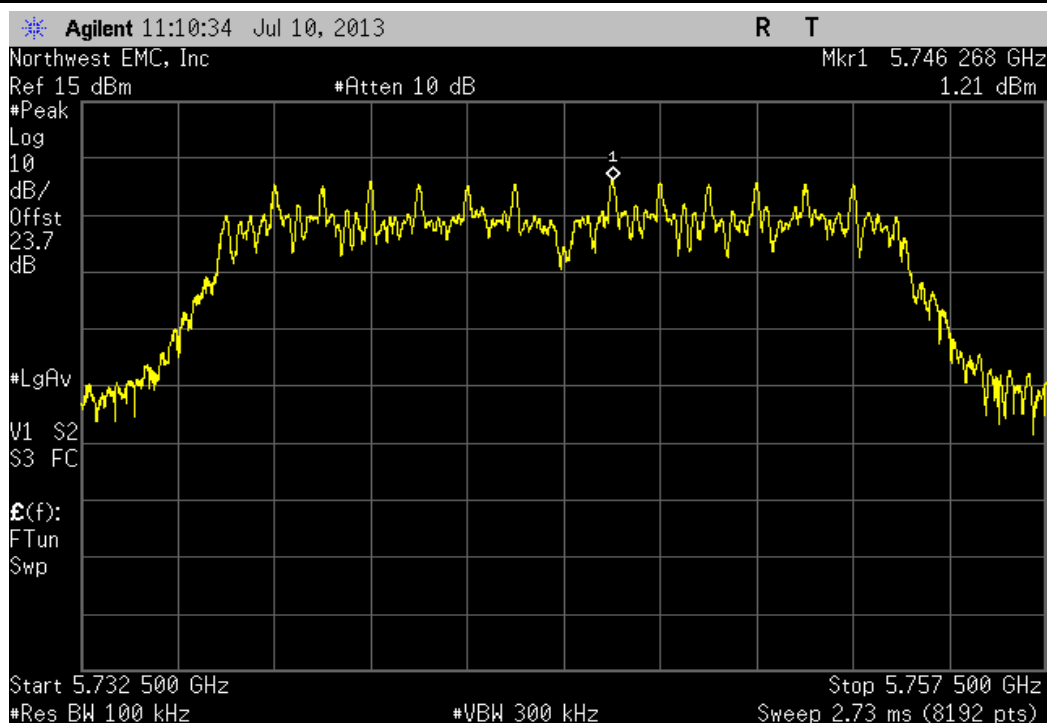
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-44.98 dBc	≤ -20 dBc	Pass	



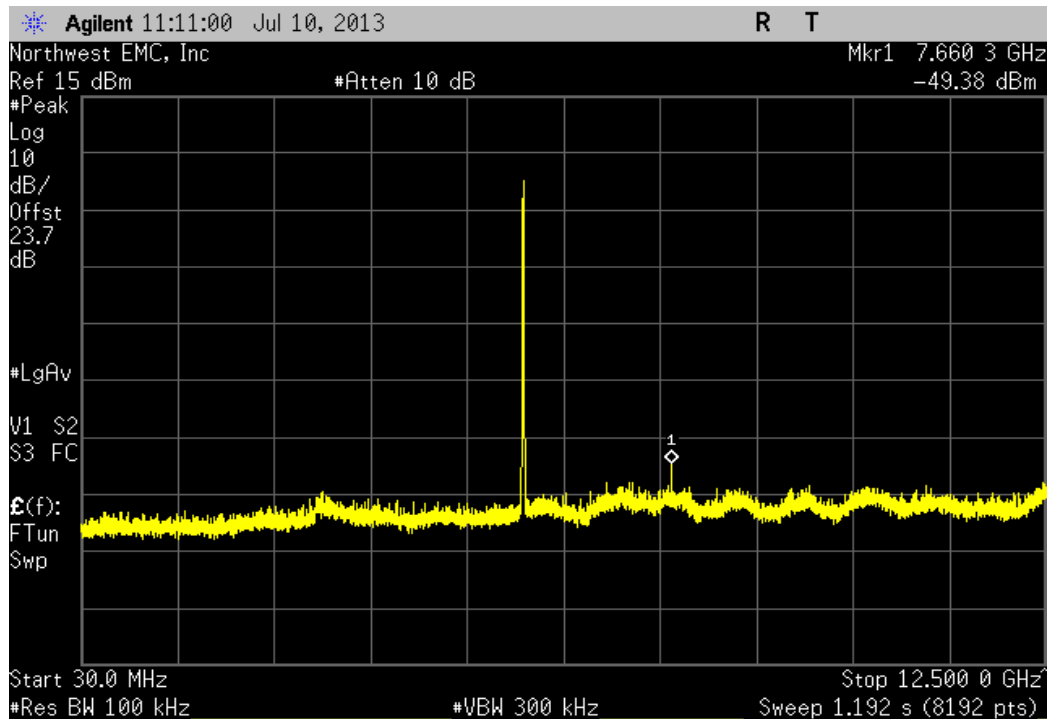
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-35.41 dBc	≤ -20 dBc	Pass



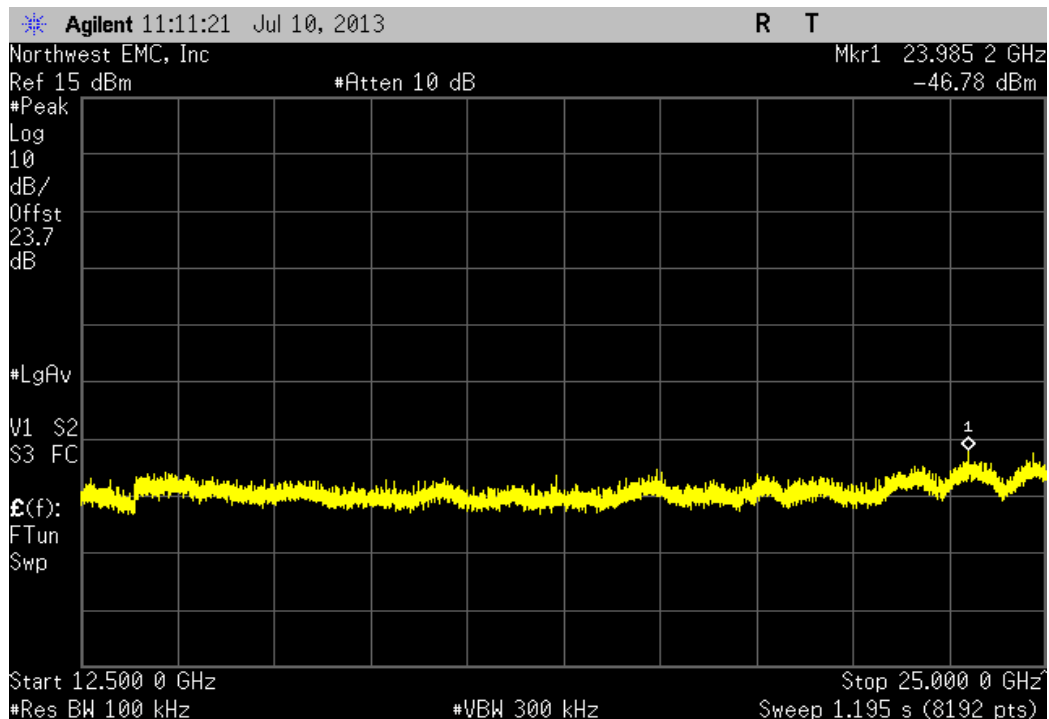
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



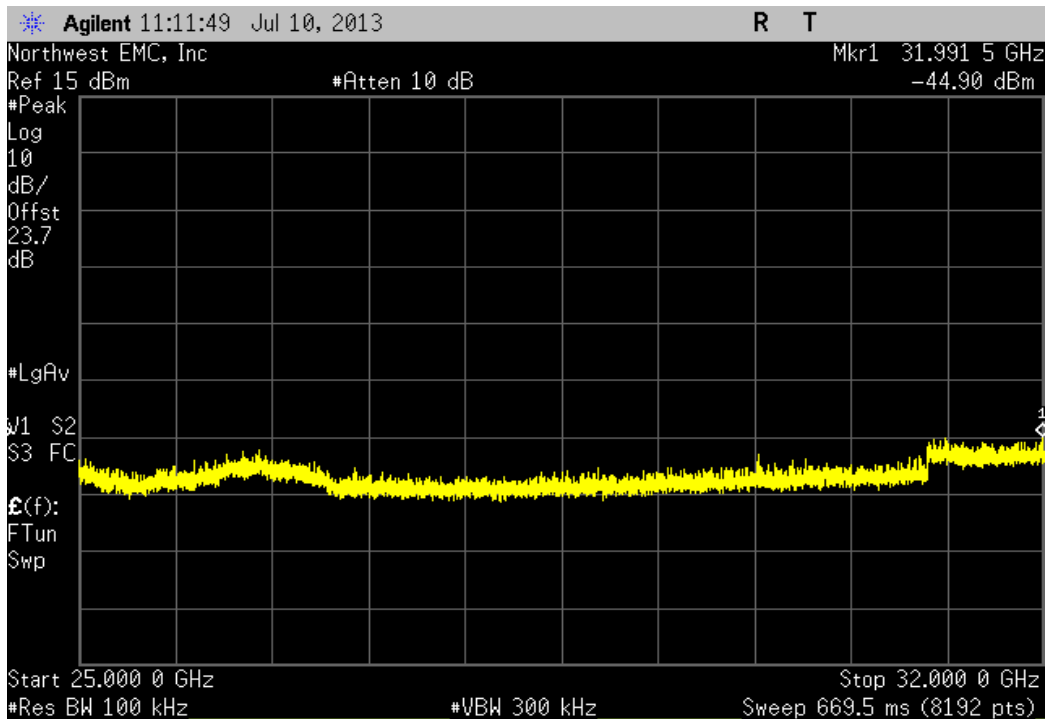
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.59 dBc	≤ -20 dBc	Pass	



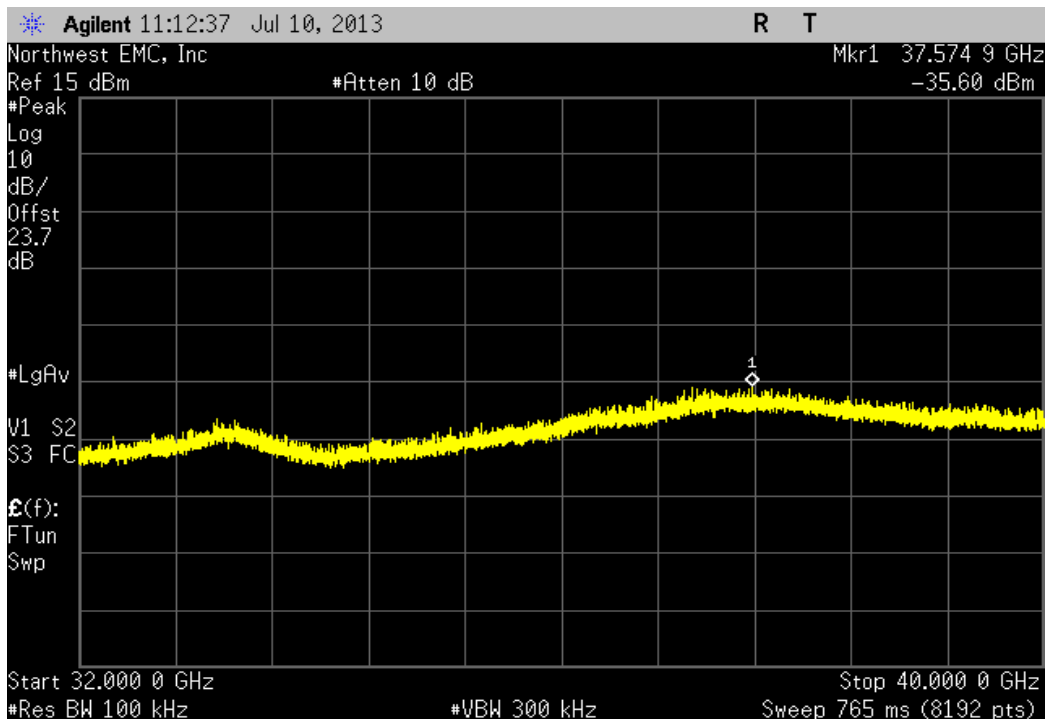
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.99 dBc	≤ -20 dBc	Pass	



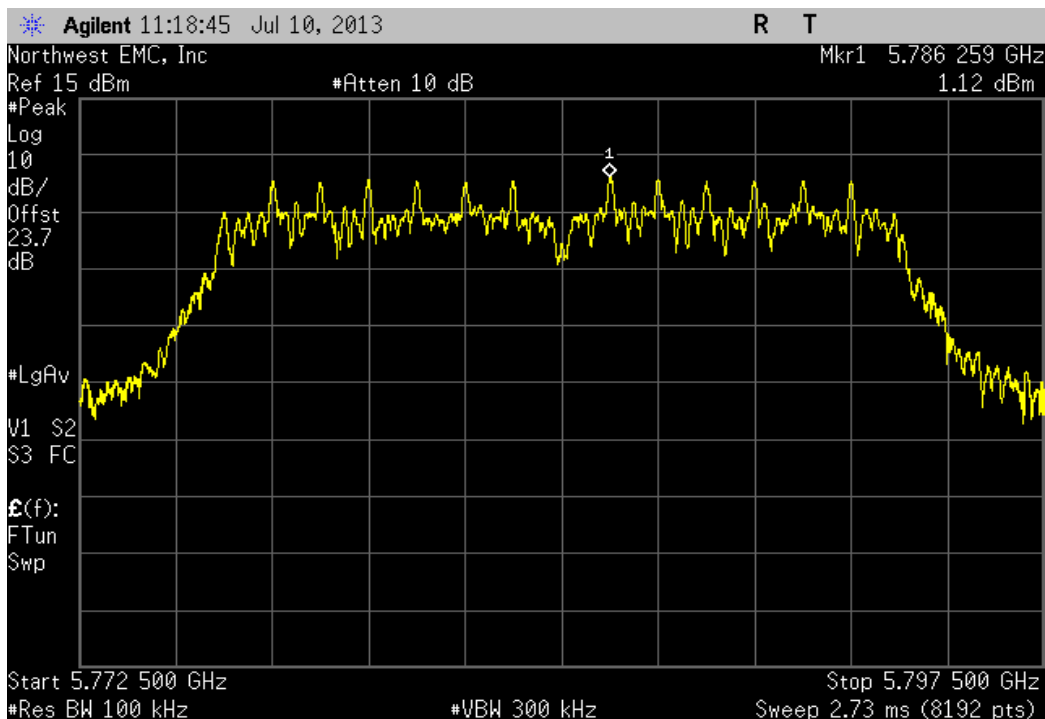
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-46.12 dBc	≤ -20 dBc	Pass



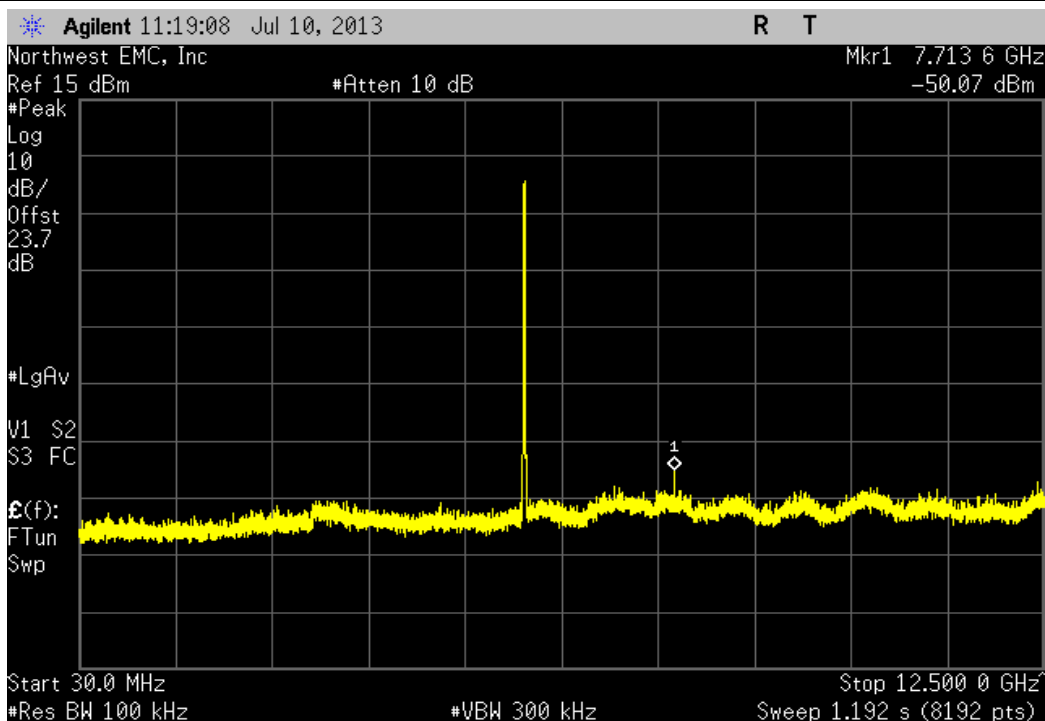
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-36.81 dBc	≤ -20 dBc	Pass



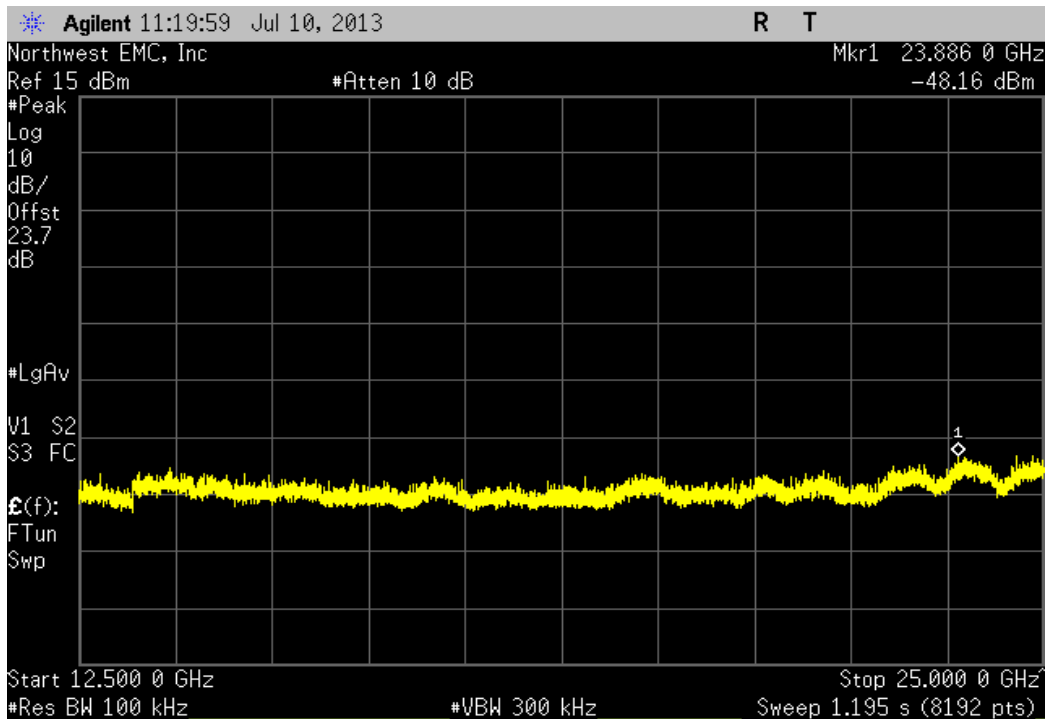
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



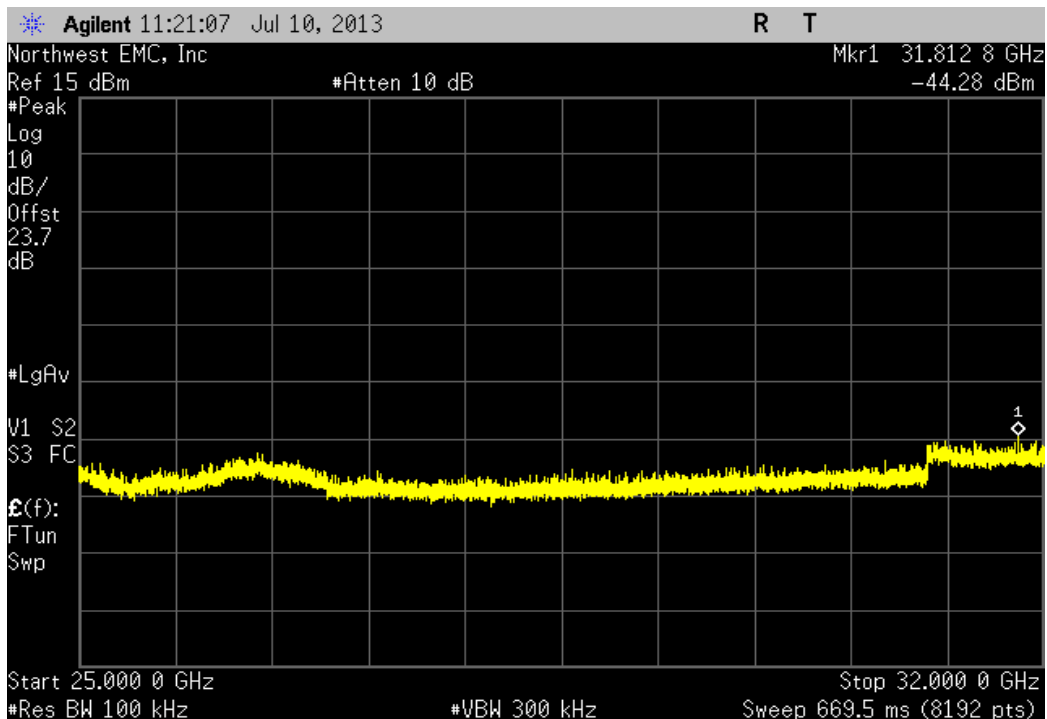
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-51.19 dBc	≤ -20 dBc	Pass



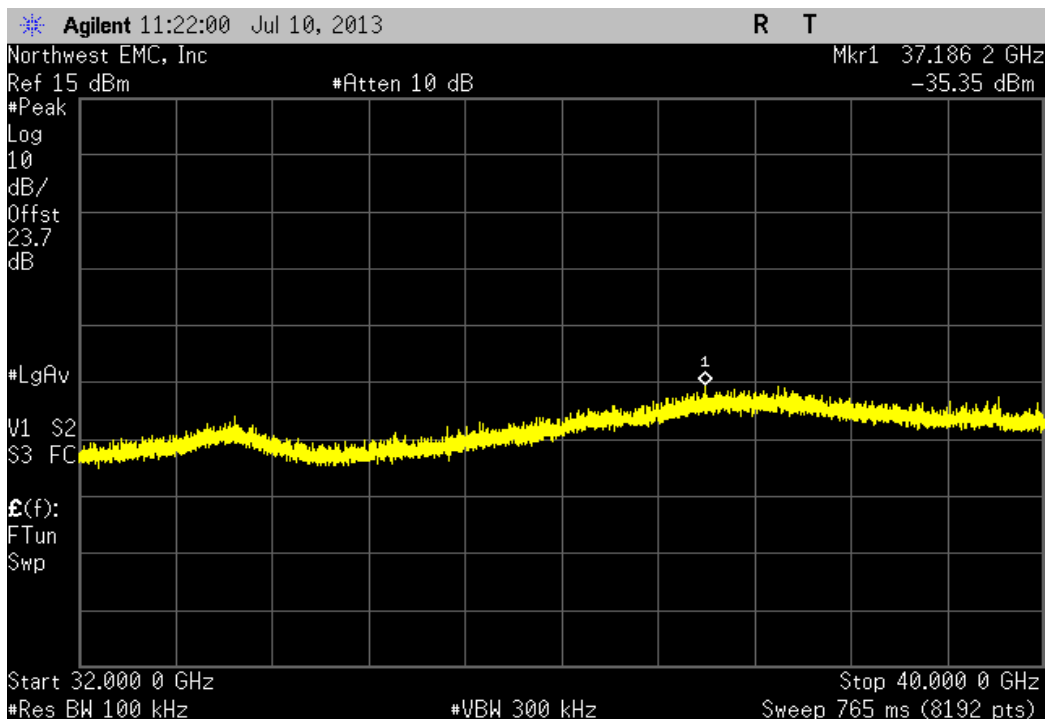
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-49.28 dBc	≤ -20 dBc	Pass	



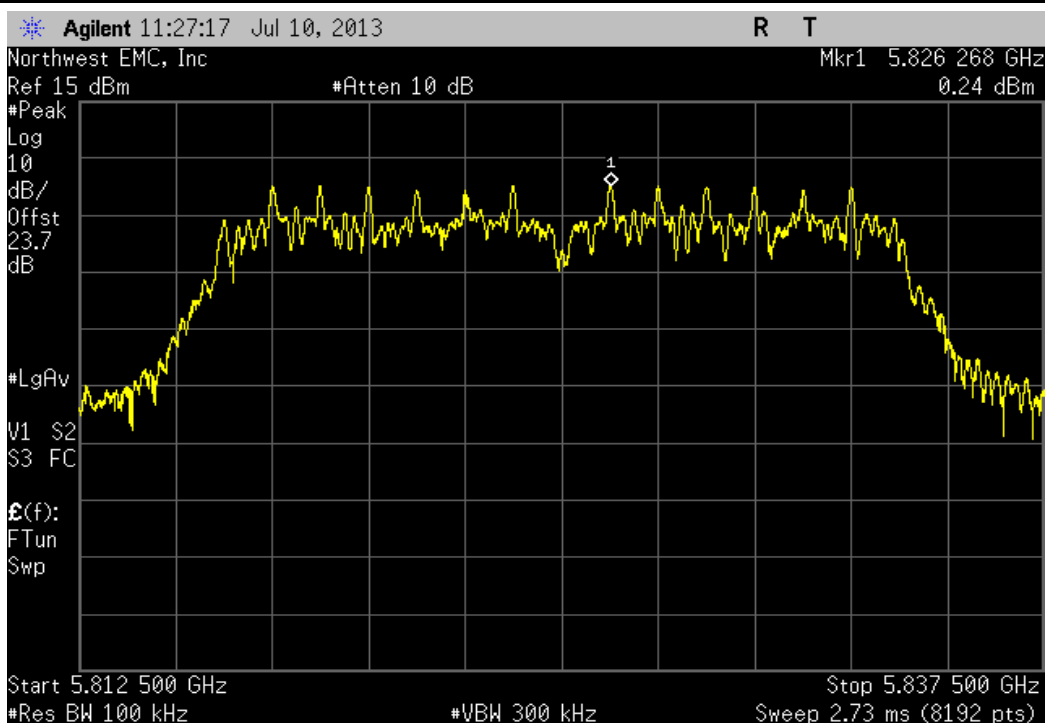
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-45.4 dBc	≤ -20 dBc	Pass	



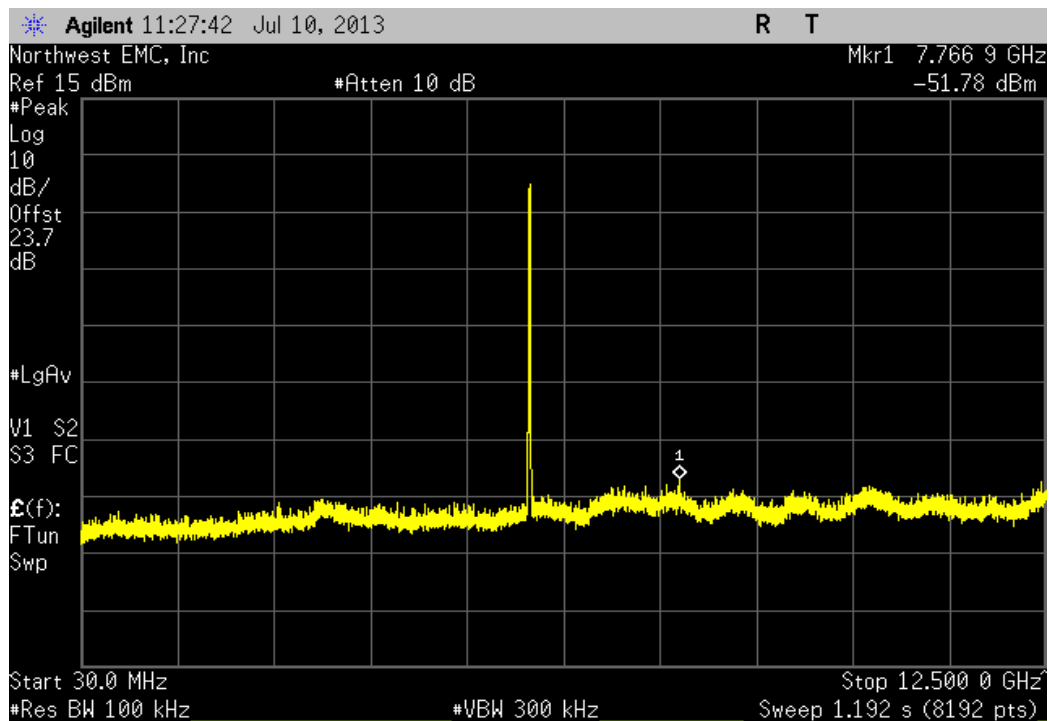
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-36.47 dBc	≤ -20 dBc	Pass



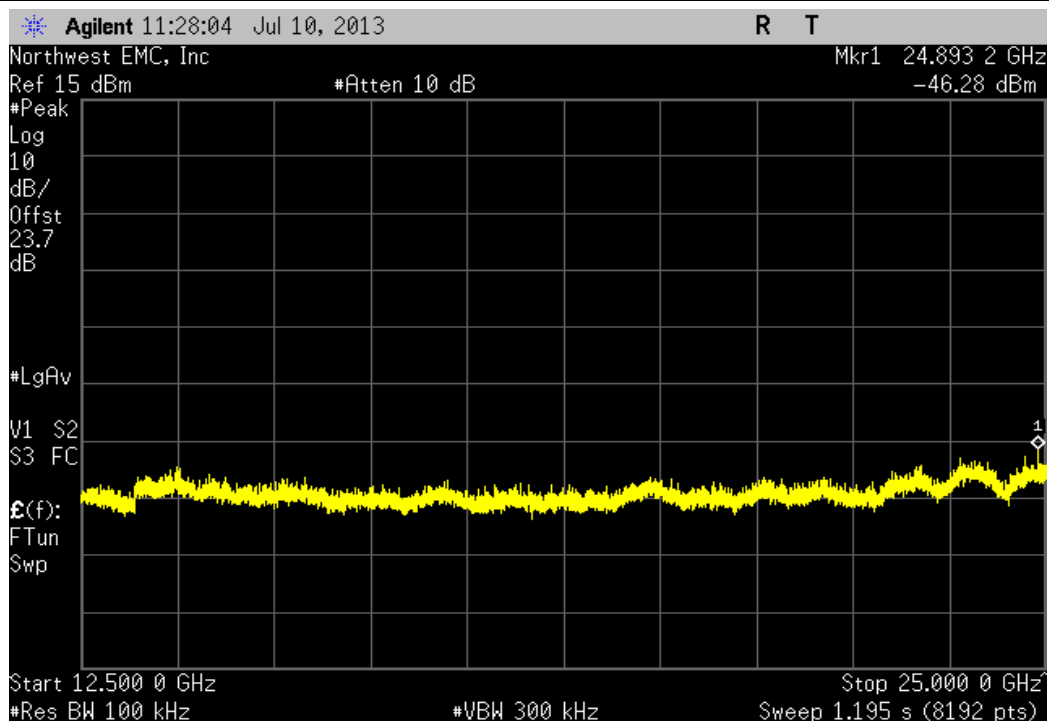
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



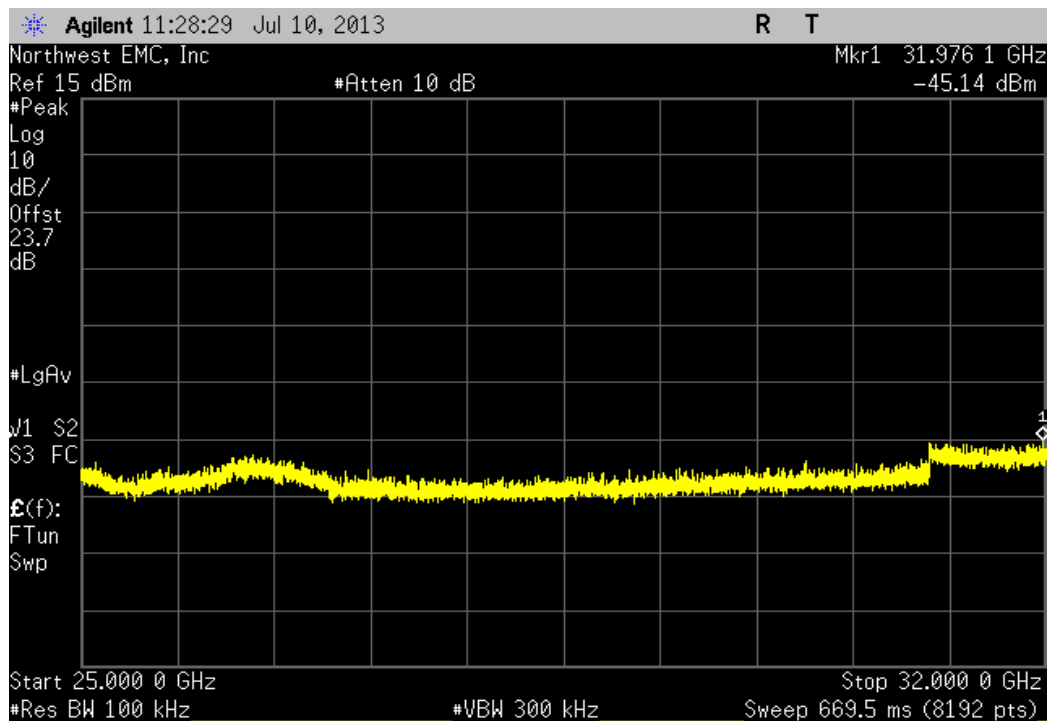
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.02 dBc	≤ -20 dBc	Pass	



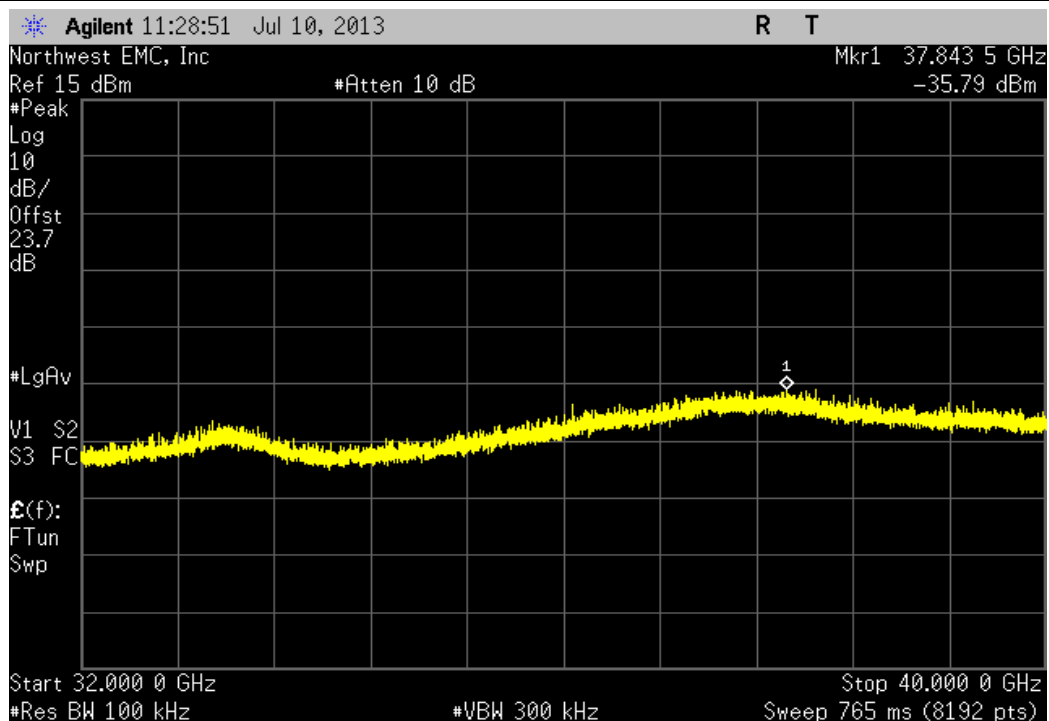
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.52 dBc	≤ -20 dBc	Pass	



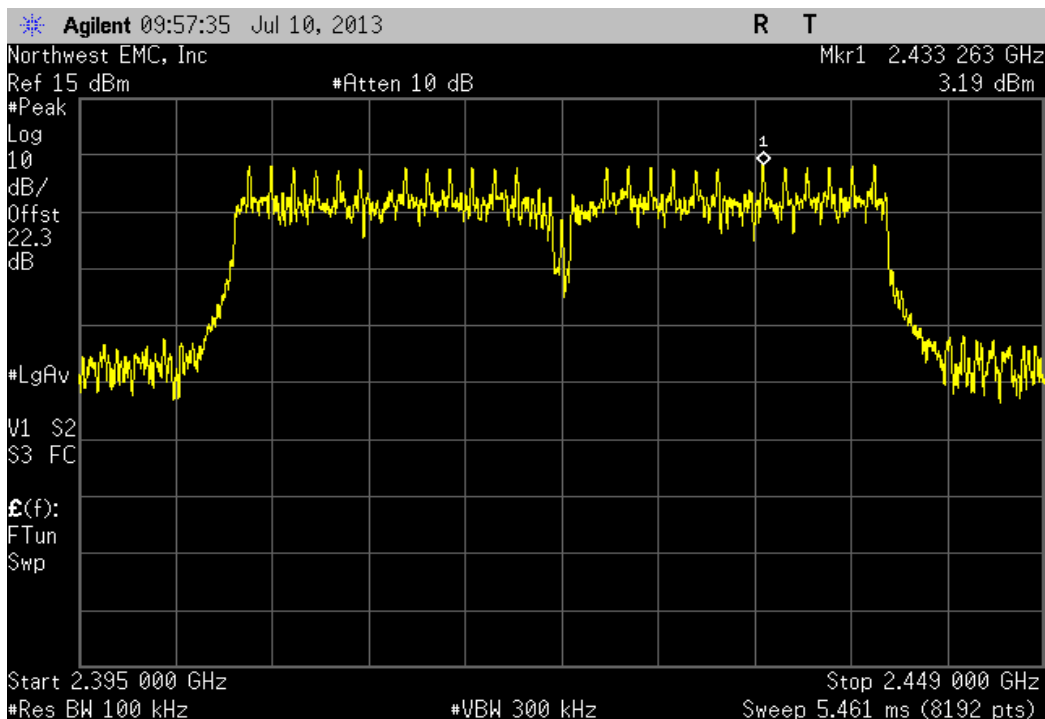
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-45.38 dBc	≤ -20 dBc	Pass



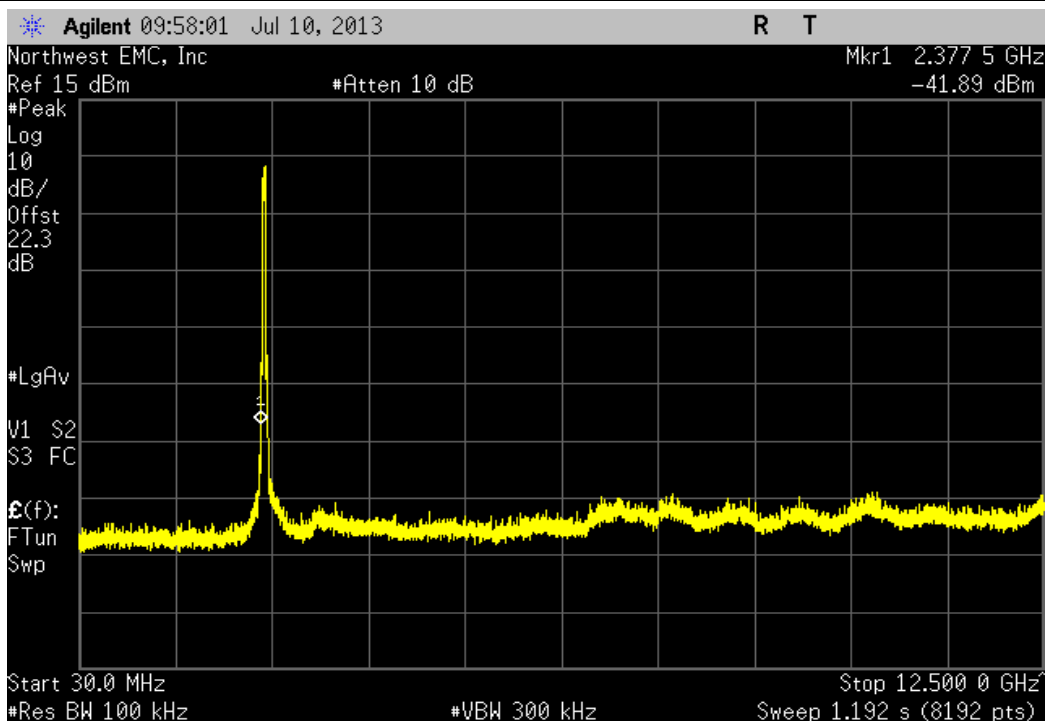
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-36.03 dBc	≤ -20 dBc	Pass



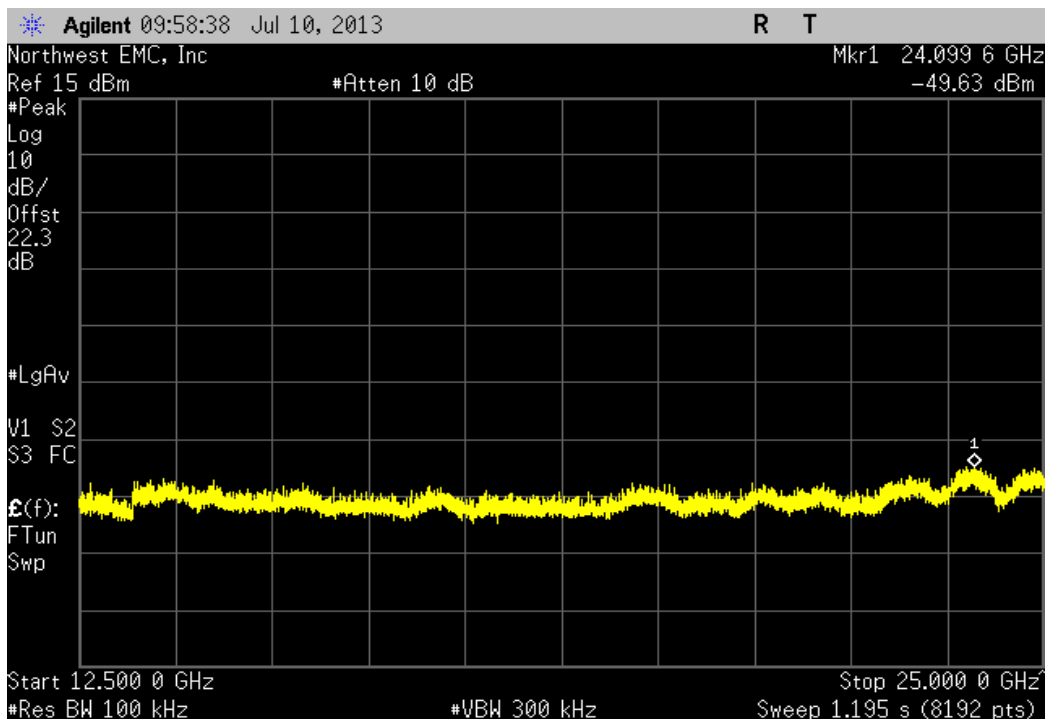
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



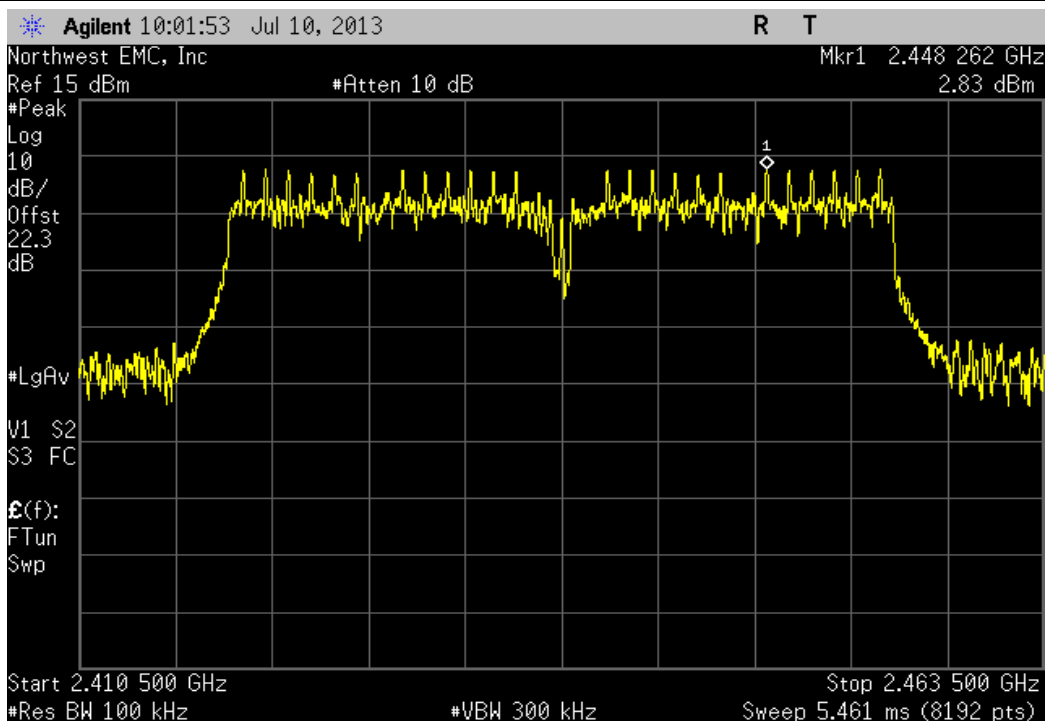
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-45.08 dBc	≤ -20 dBc	Pass



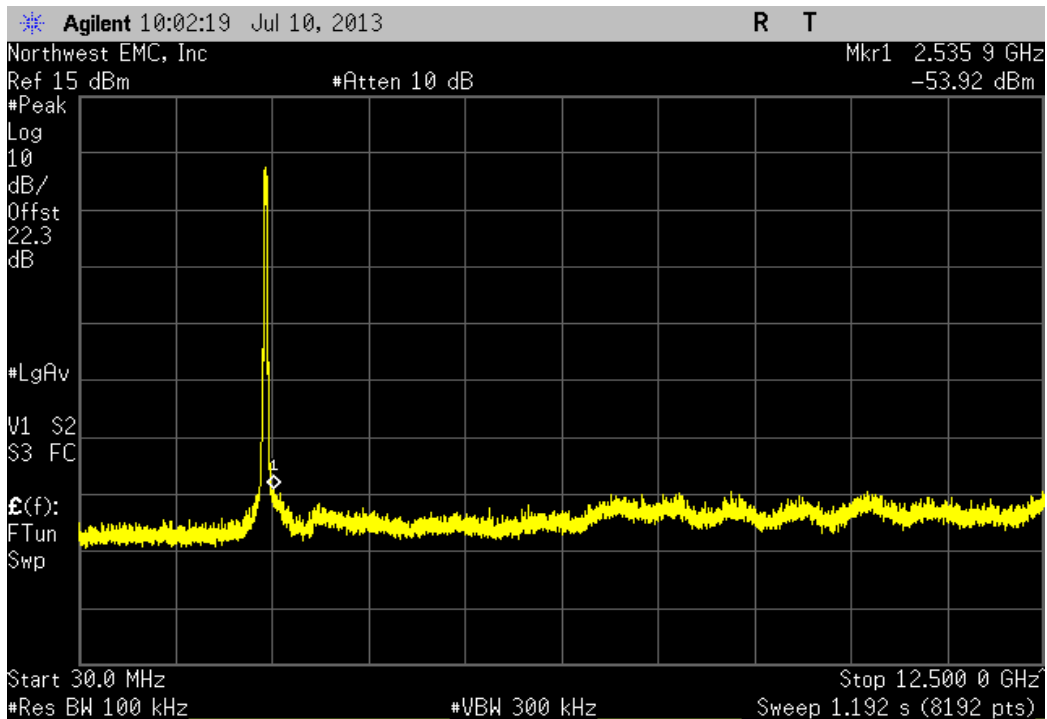
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.82 dBc	≤ -20 dBc	Pass	



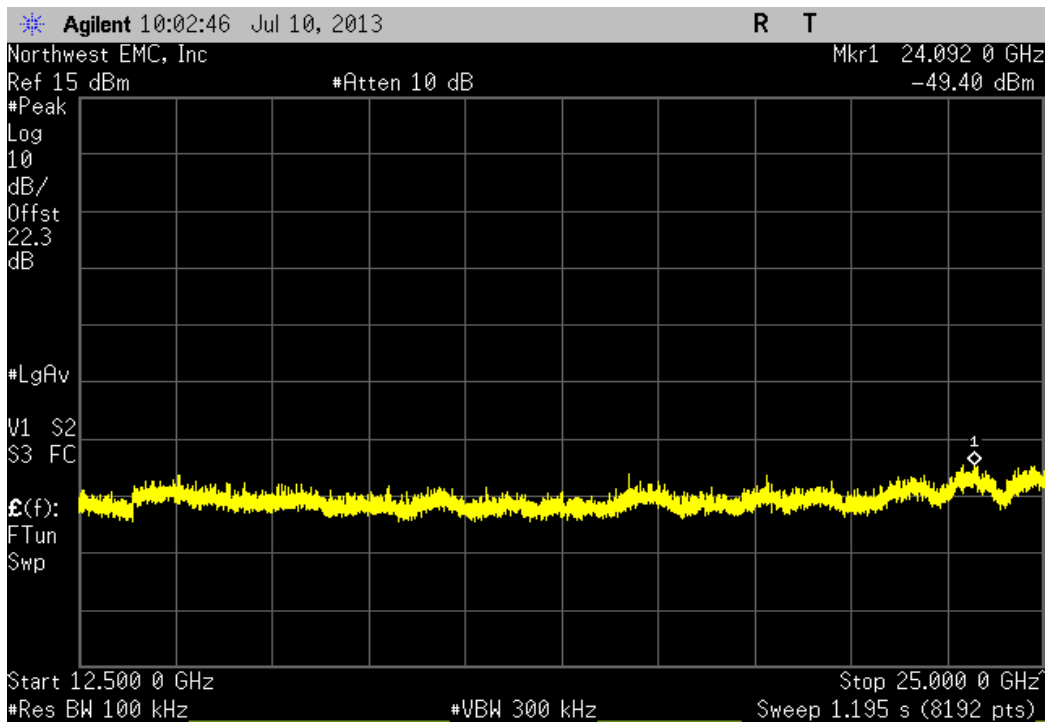
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



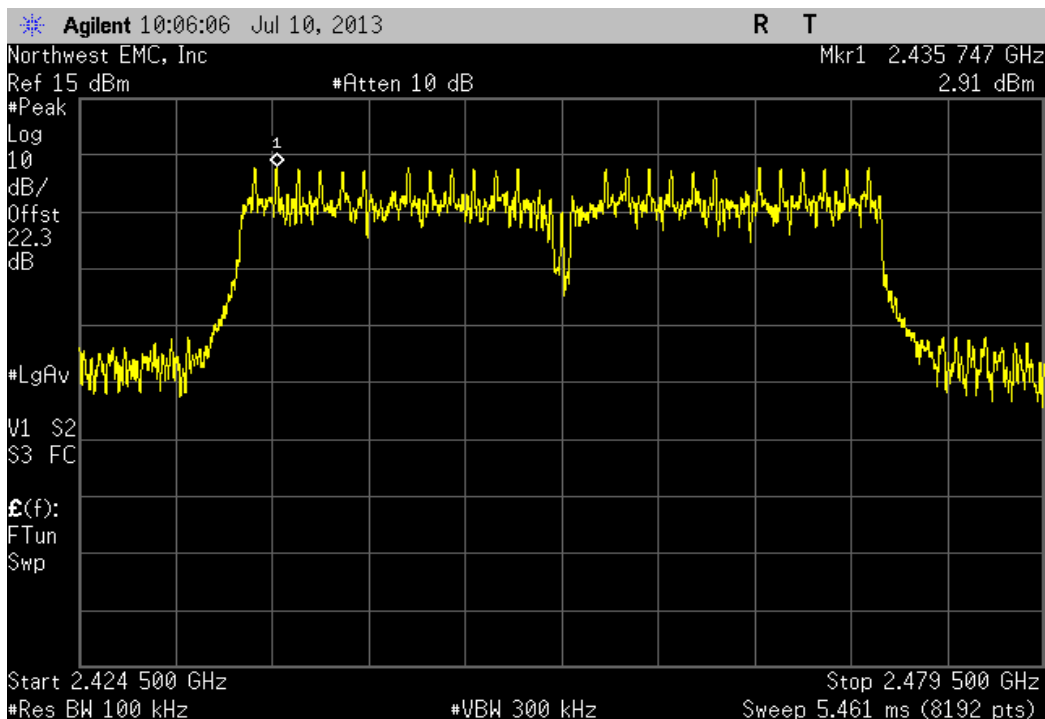
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-56.75 dBc	≤ -20 dBc	Pass	



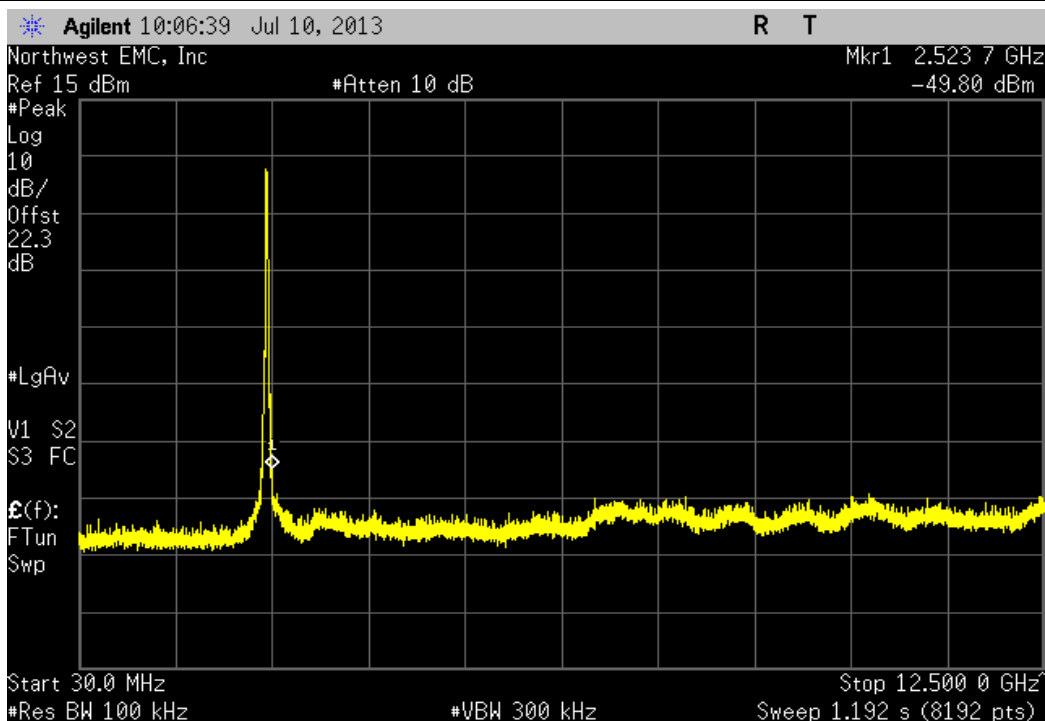
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.23 dBc	≤ -20 dBc	Pass	



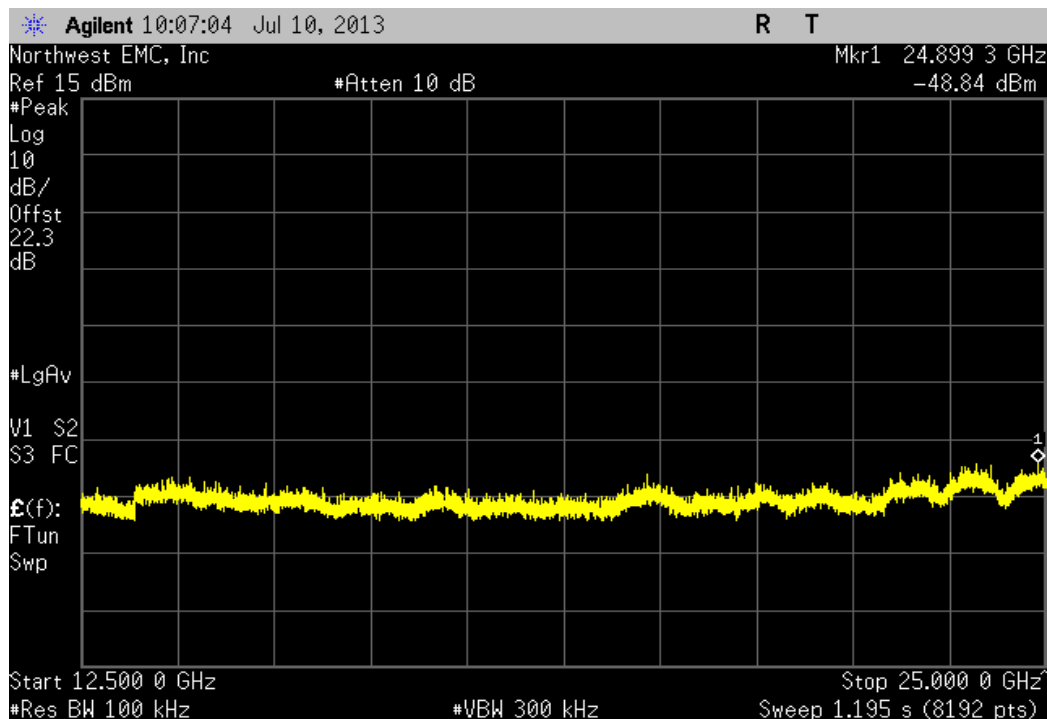
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



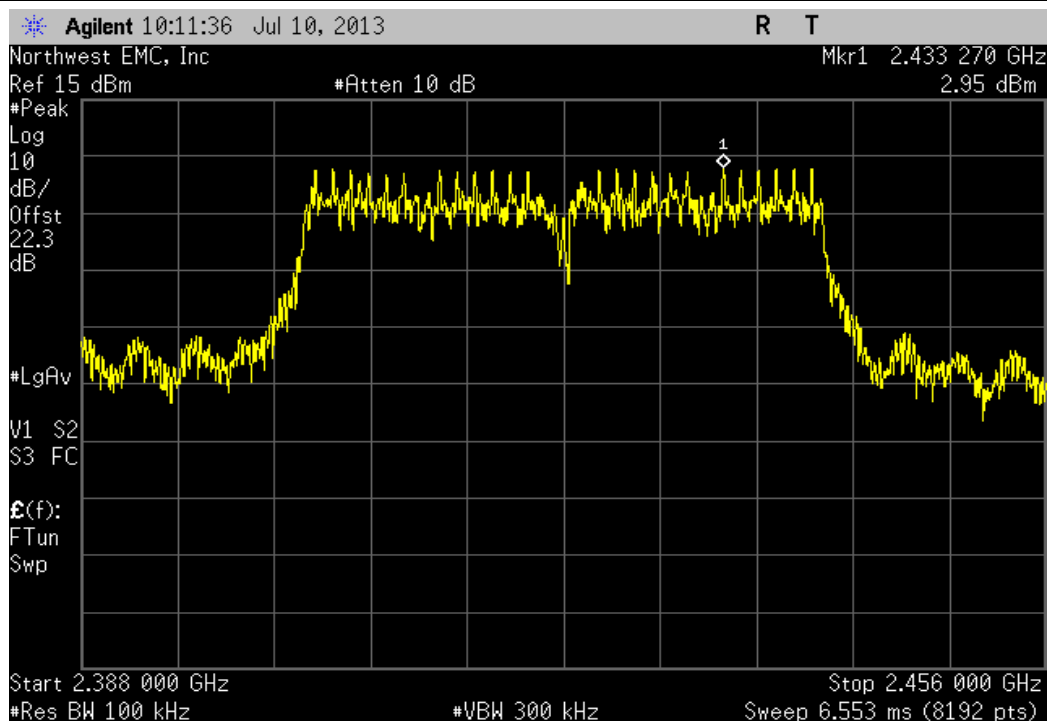
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-52.71 dBc	≤ -20 dBc	Pass



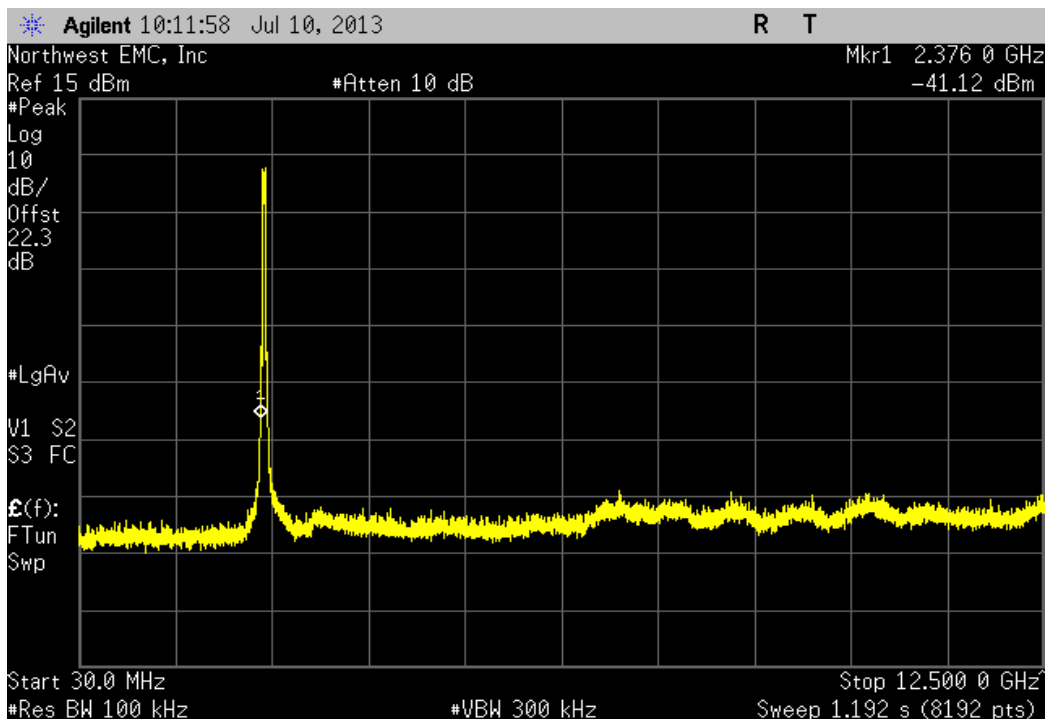
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-51.75 dBc	≤ -20 dBc	Pass	



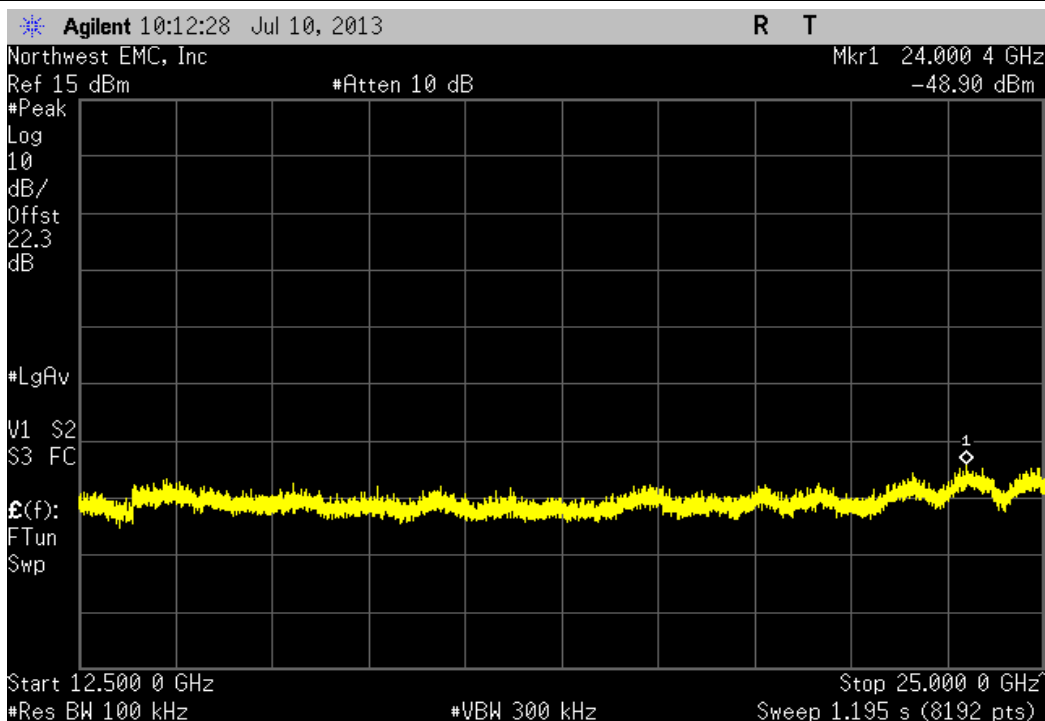
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



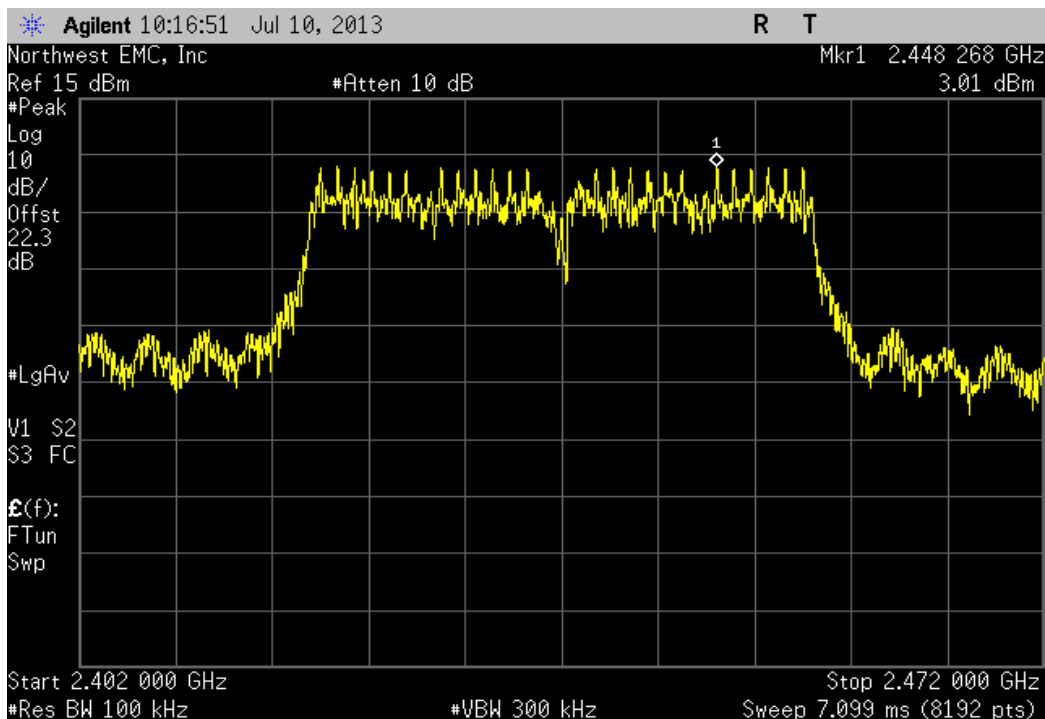
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-44.08 dBc	≤ -20 dBc	Pass	



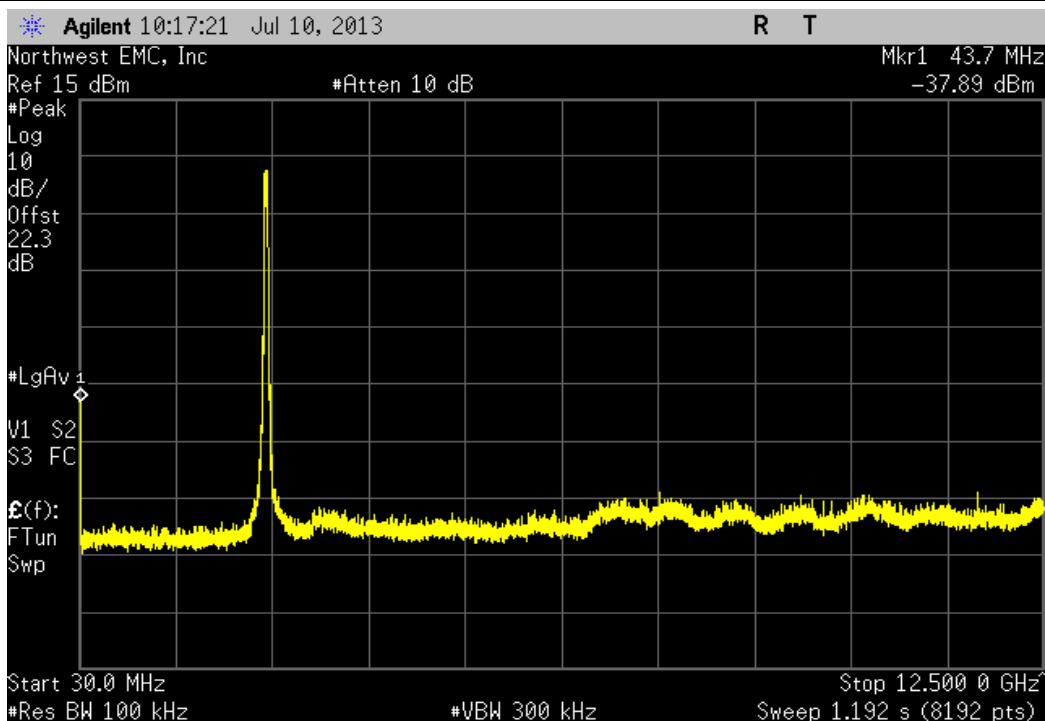
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-51.86 dBc	≤ -20 dBc	Pass	



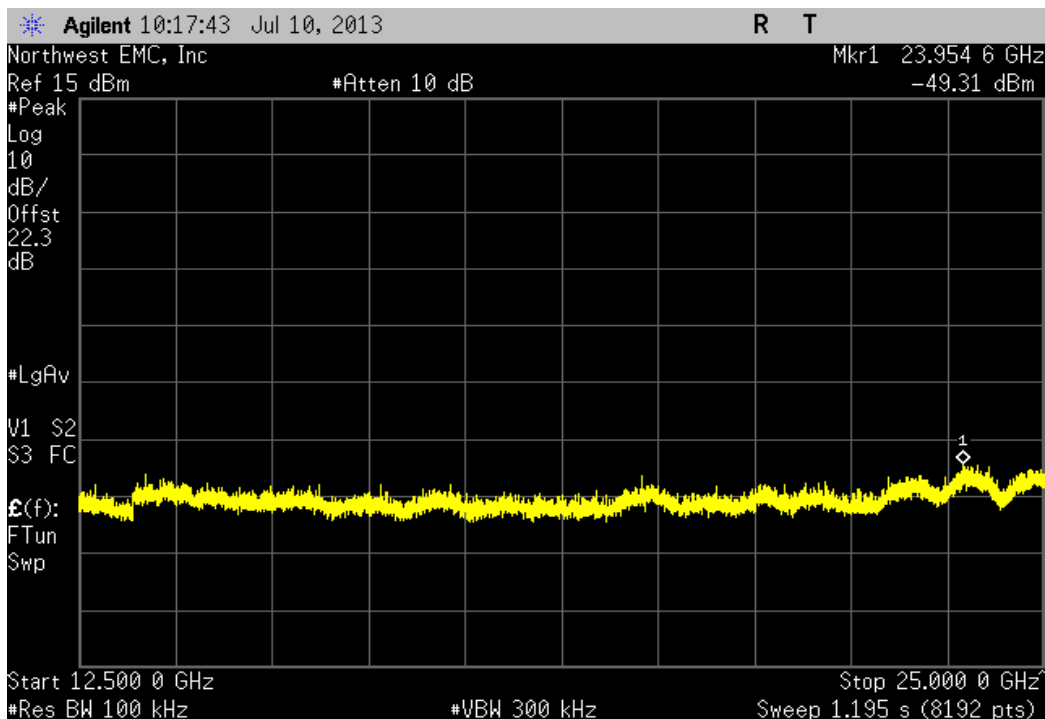
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range			Value	Limit	Result	
	Fundamental		N/A	N/A	N/A	



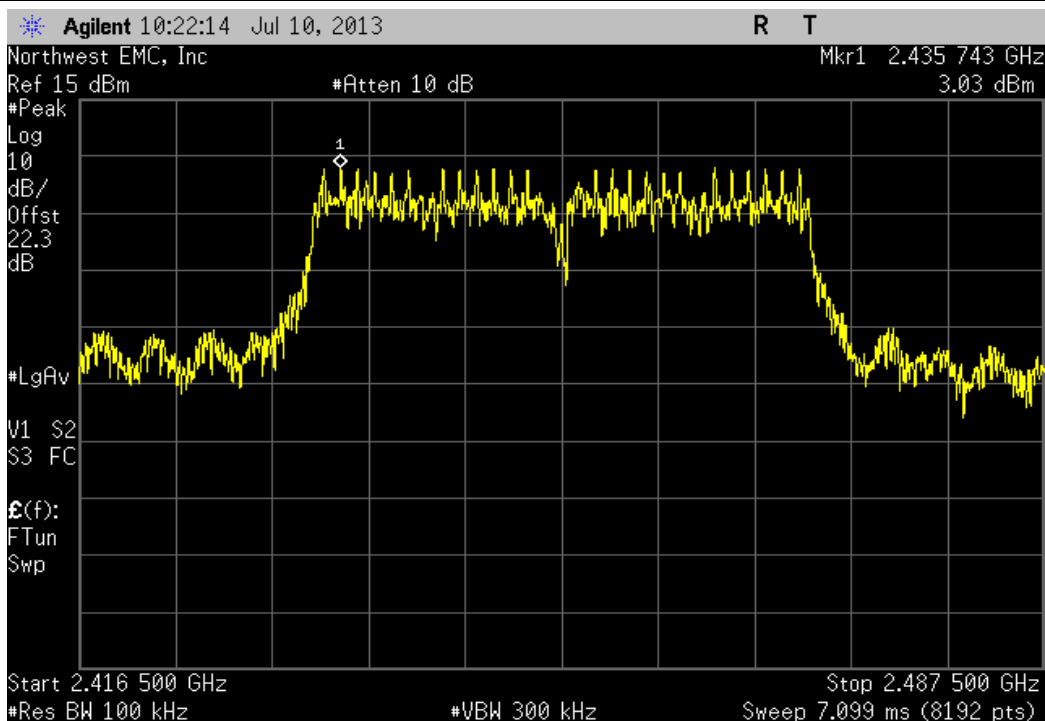
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range			Value	Limit	Result	
	30 MHz - 12.5 GHz		-40.9 dBc	≤ -20 dBc	Pass	



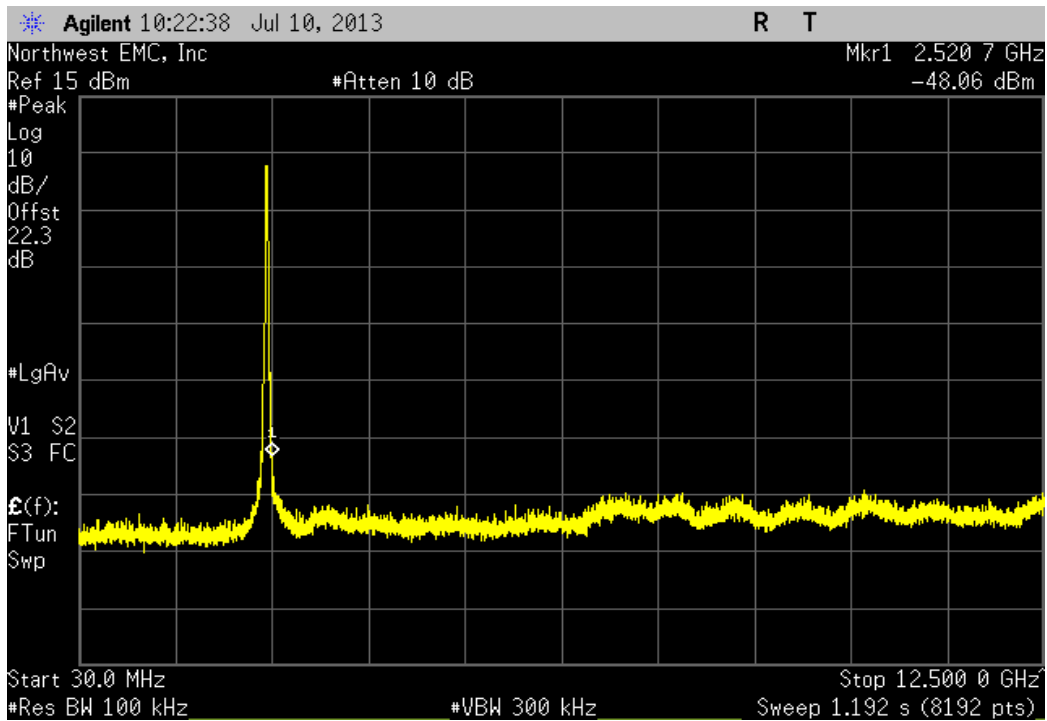
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.32 dBc	≤ -20 dBc	Pass	



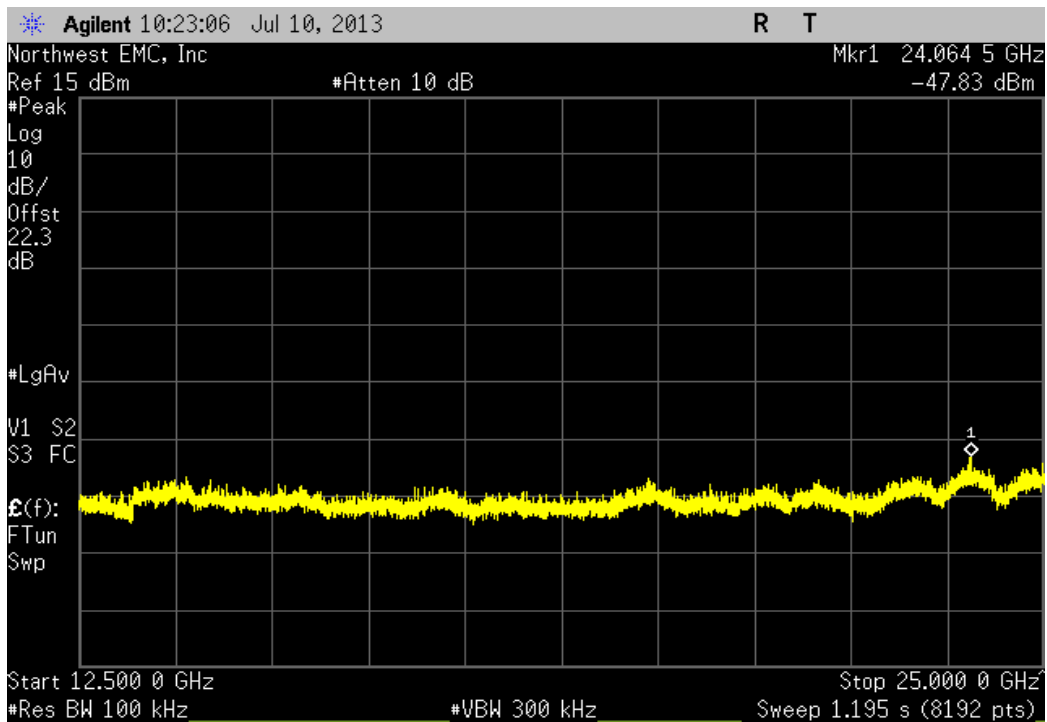
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



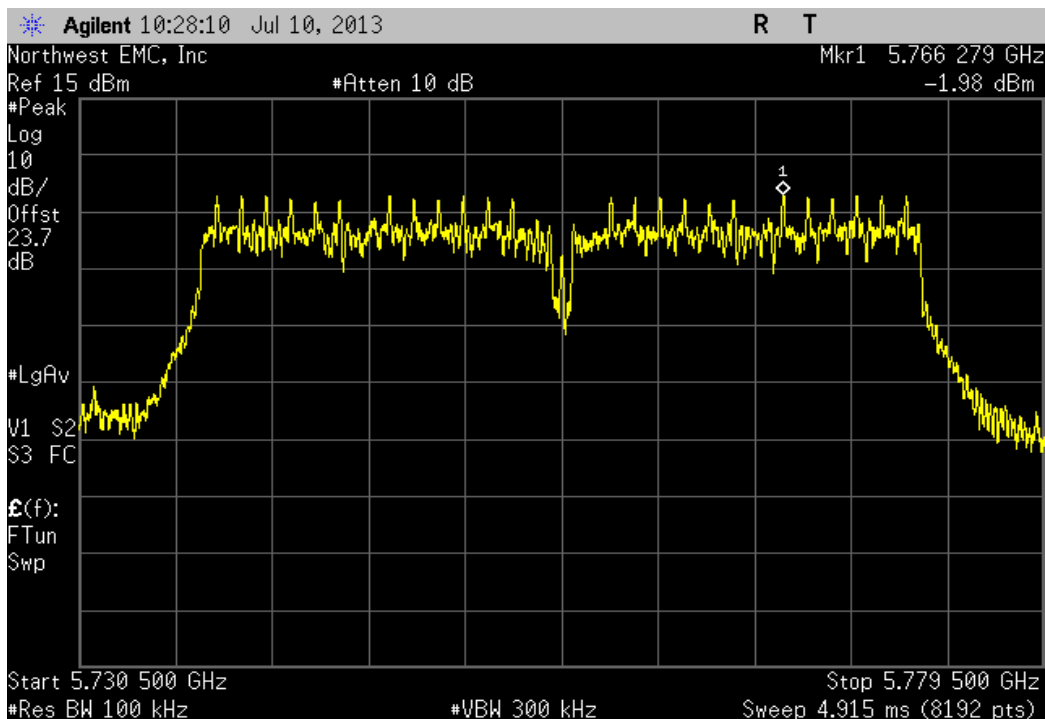
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.09 dBc	≤ -20 dBc	Pass	



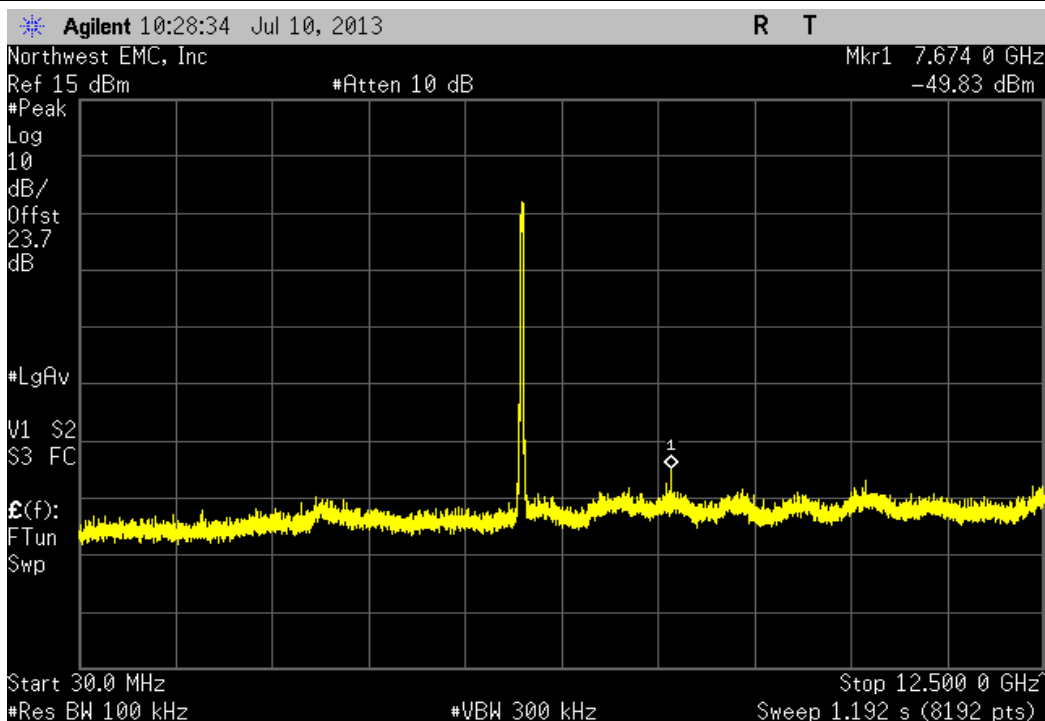
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-50.86 dBc	≤ -20 dBc	Pass	



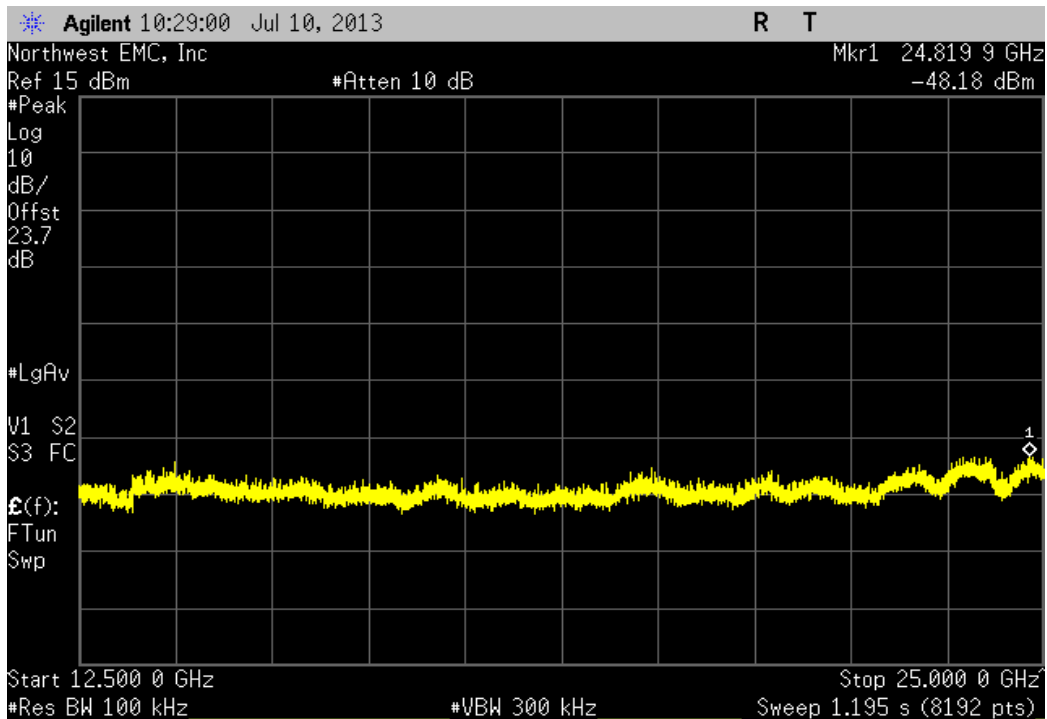
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



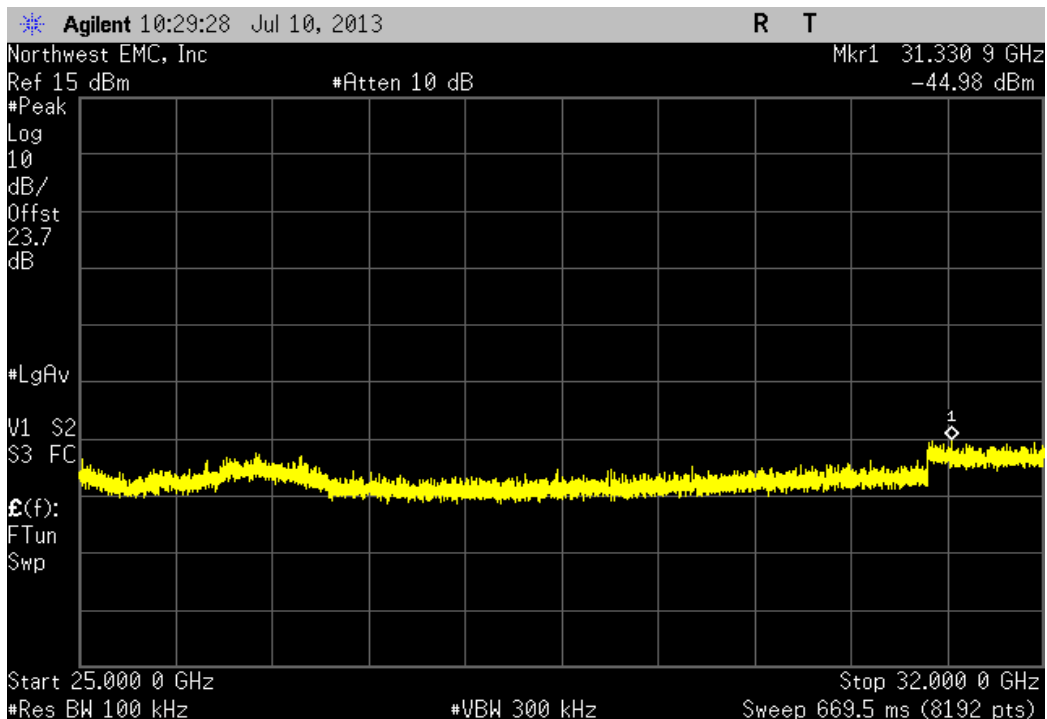
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-47.85 dBc	≤ -20 dBc	Pass



Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.2 dBc	≤ -20 dBc	Pass	



Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43 dBc	≤ -20 dBc	Pass	



Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz

Frequency

Range

Value

Limit

Result

32 GHz - 40 GHz

-33.16 dBc

≤ -20 dBc

Pass

Agilent 10:29:58 Jul 10, 2013

R T

Northwest EMC, Inc

Mkr1 37.607 1 GHz

Ref 15 dBm

#Atten 10 dB

-35.13 dBm

#Peak

Log

10

dB/

Offst

23.7

dB

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Start 32.000 0 GHz

Stop 40.000 0 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 765 ms (8192 pts)

Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz

Frequency

Range

Value

Limit

Result

Fundamental

N/A

N/A

N/A

Agilent 10:33:51 Jul 10, 2013

R T

Northwest EMC, Inc

Mkr1 5.798 742 GHz

Ref 15 dBm

#Atten 10 dB

-1.68 dBm

#Peak

Log

10

dB/

Offst

23.7

dB

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Start 5.770 500 GHz

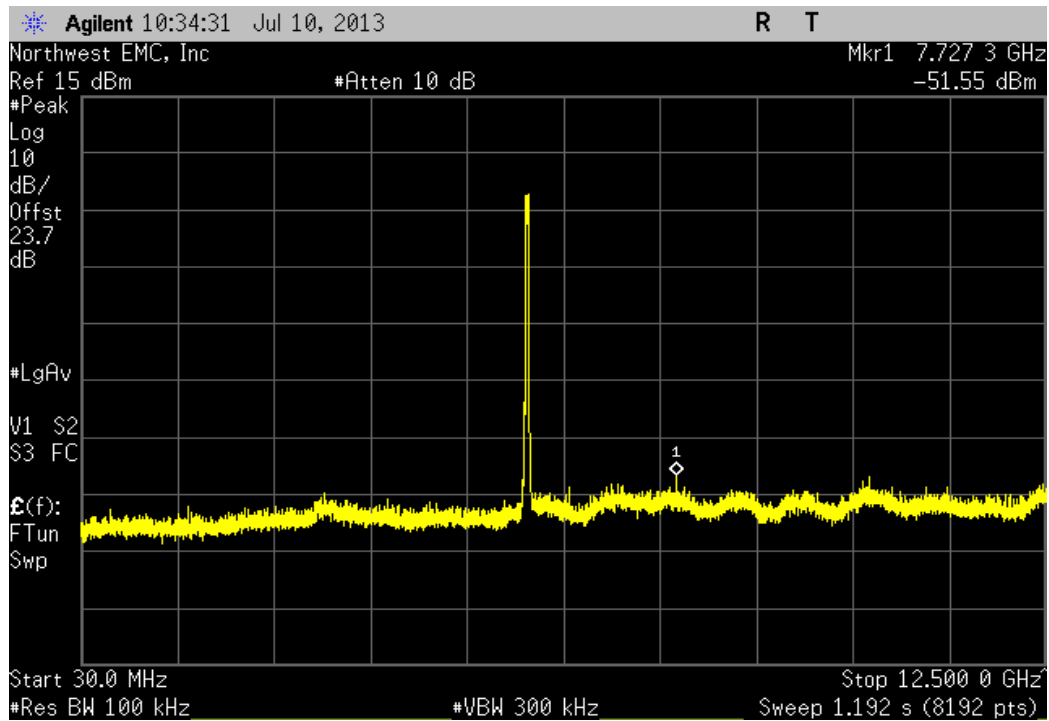
Stop 5.819 500 GHz

#Res BW 100 kHz

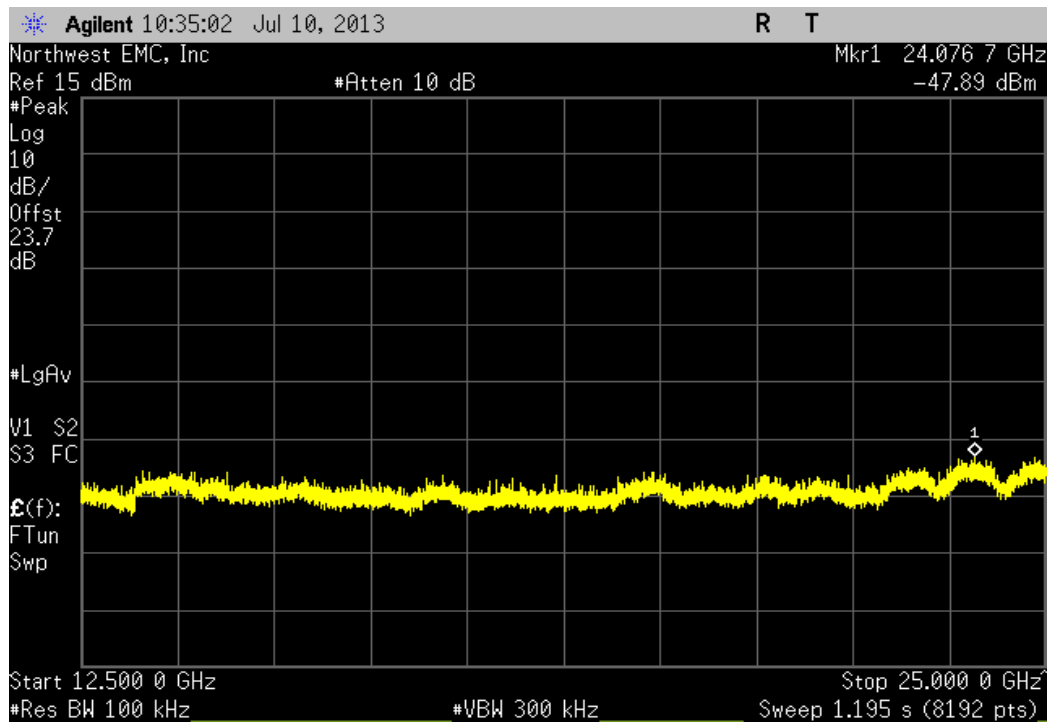
#VBW 300 kHz

Sweep 4.915 ms (8192 pts)

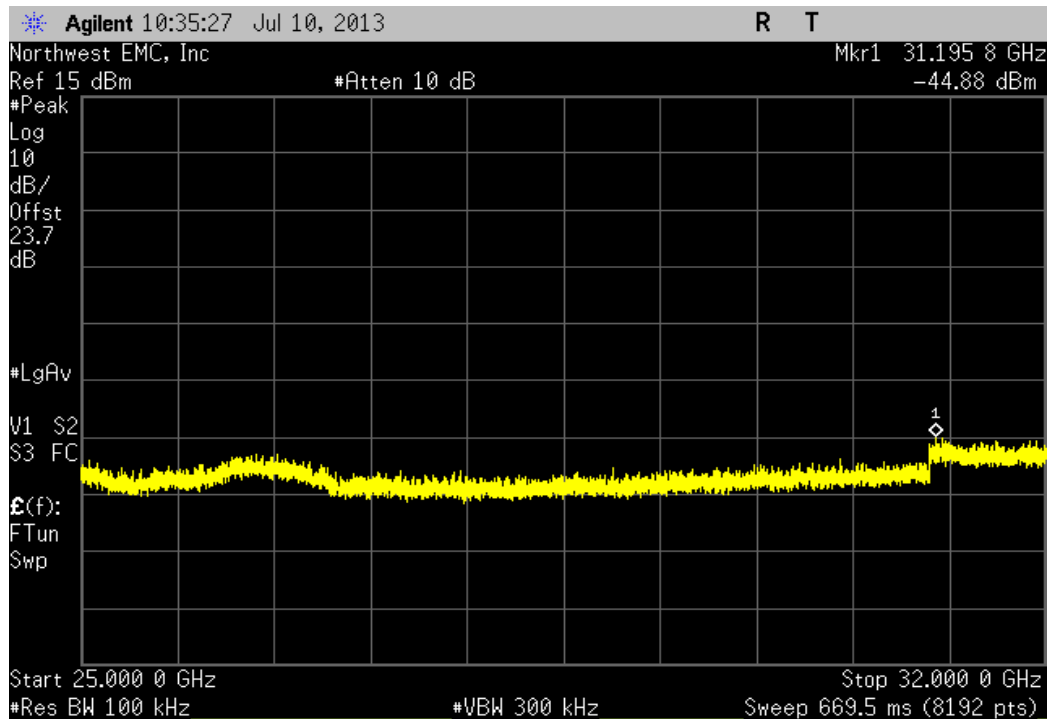
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.87 dBc	≤ -20 dBc	Pass	



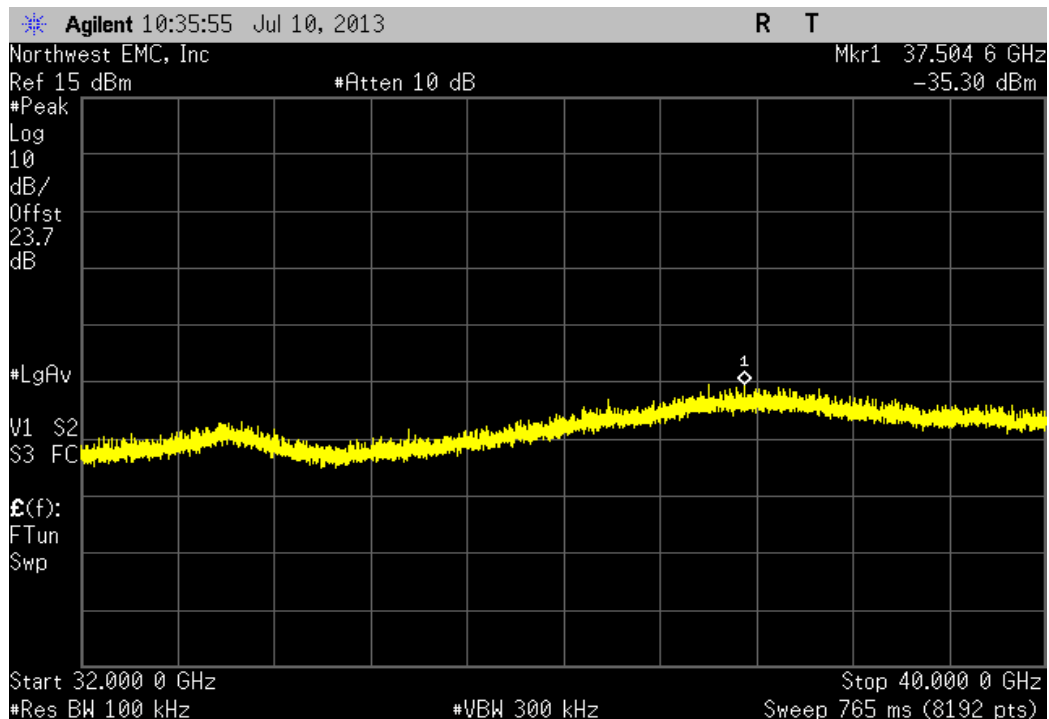
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.21 dBc	≤ -20 dBc	Pass	



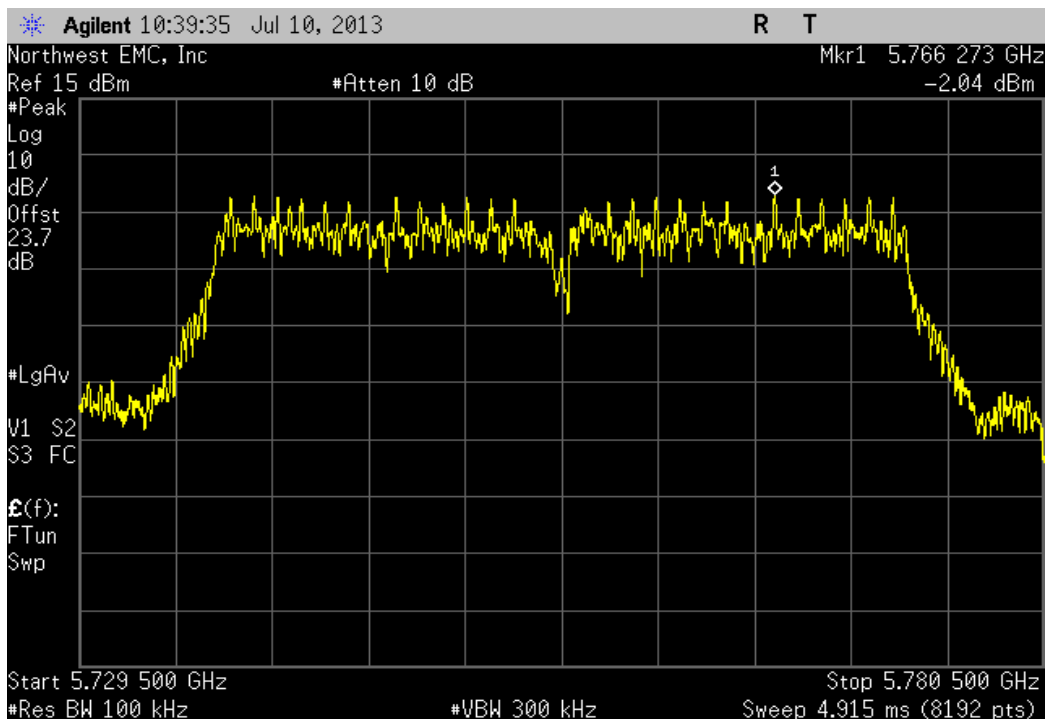
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-43.2 dBc	≤ -20 dBc	Pass



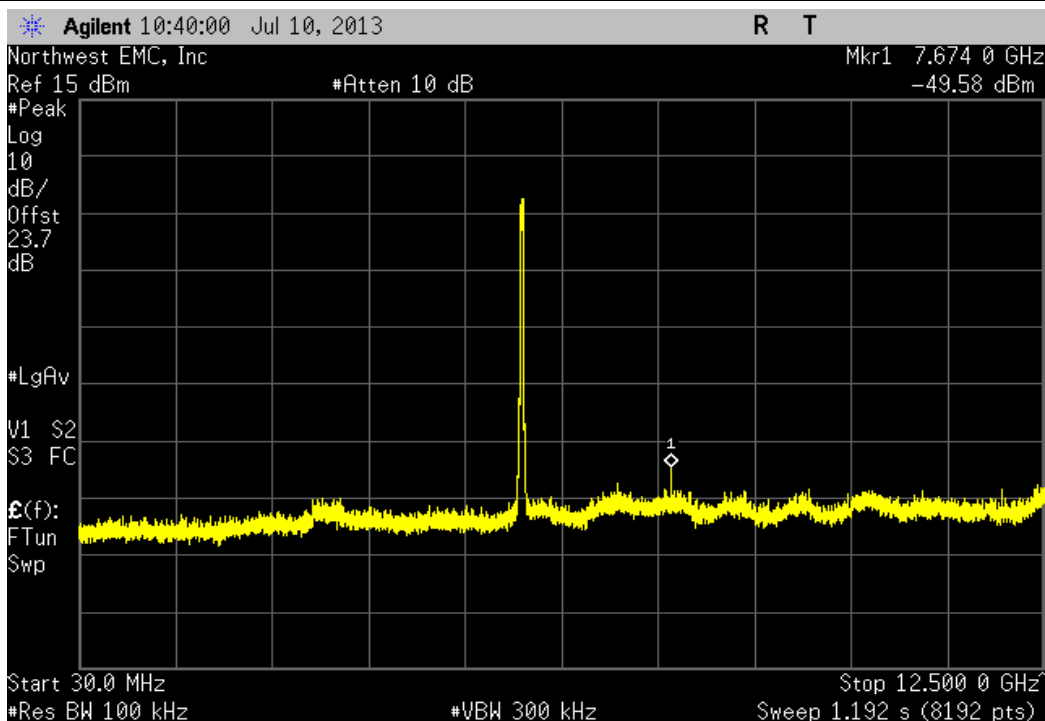
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.62 dBc	≤ -20 dBc	Pass



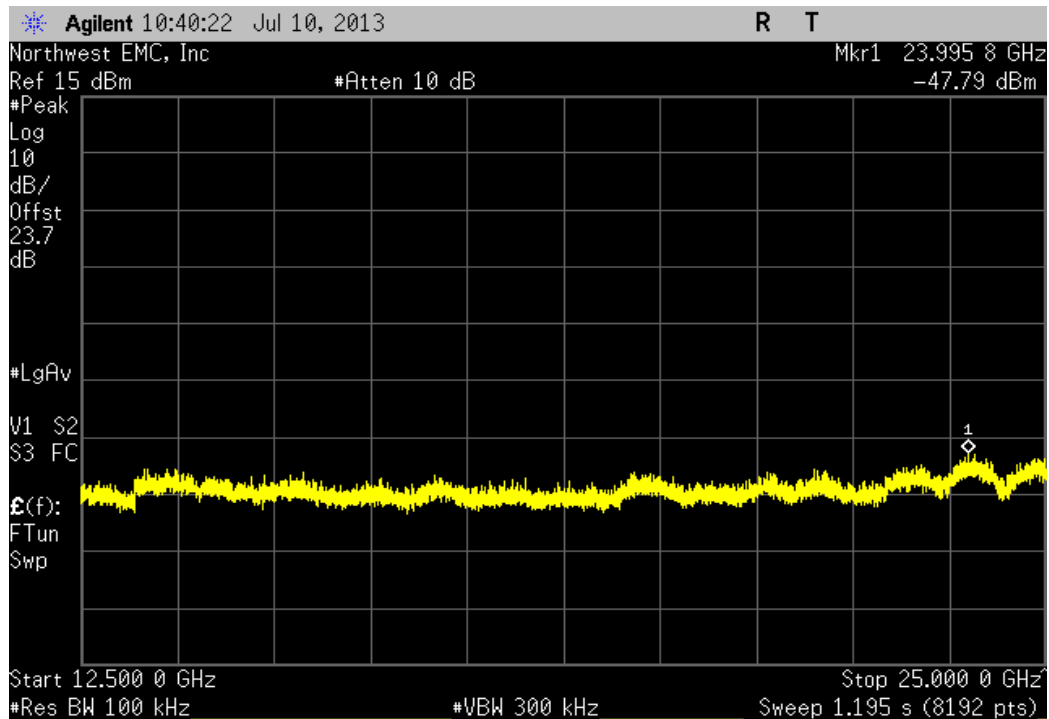
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



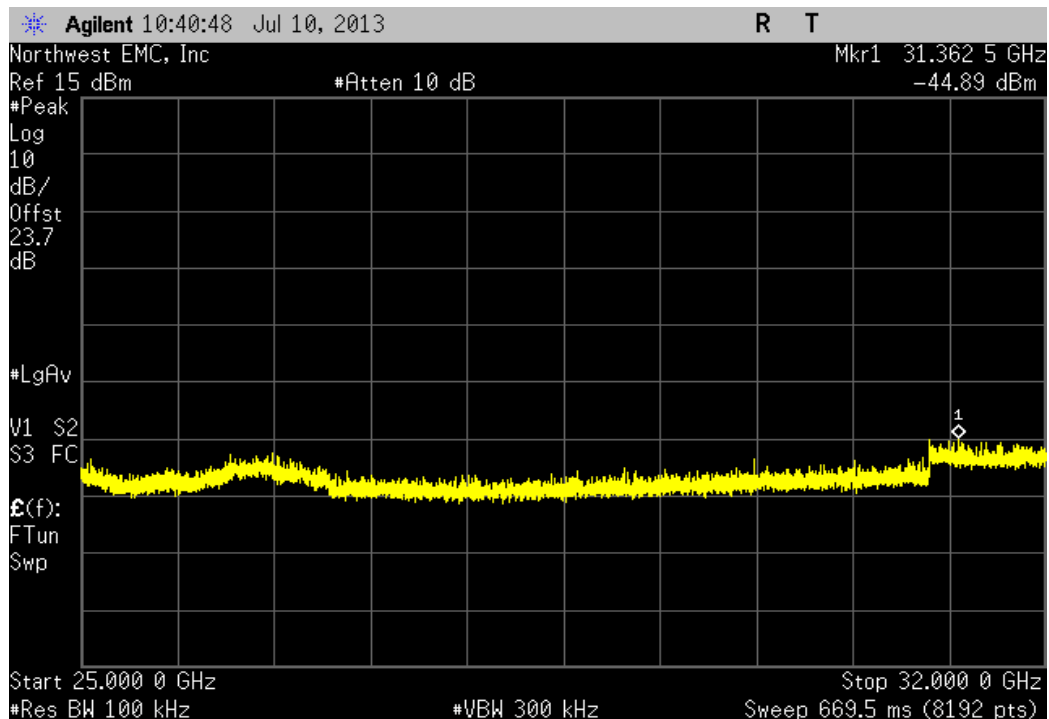
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-47.54 dBc	≤ -20 dBc	Pass



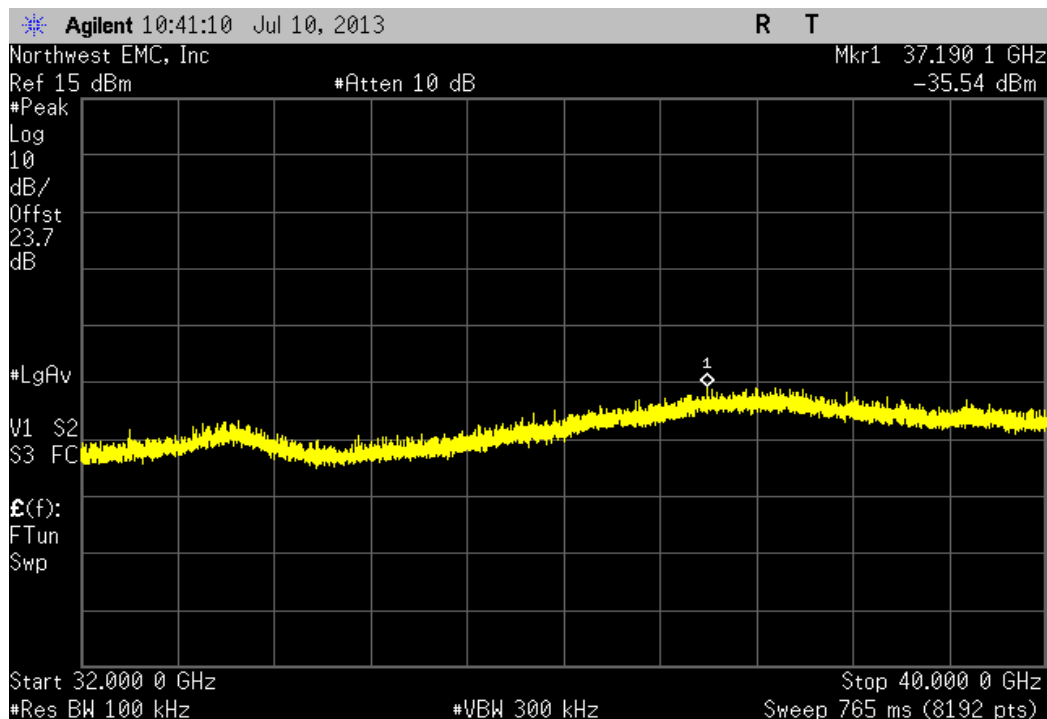
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.75 dBc	≤ -20 dBc	Pass	



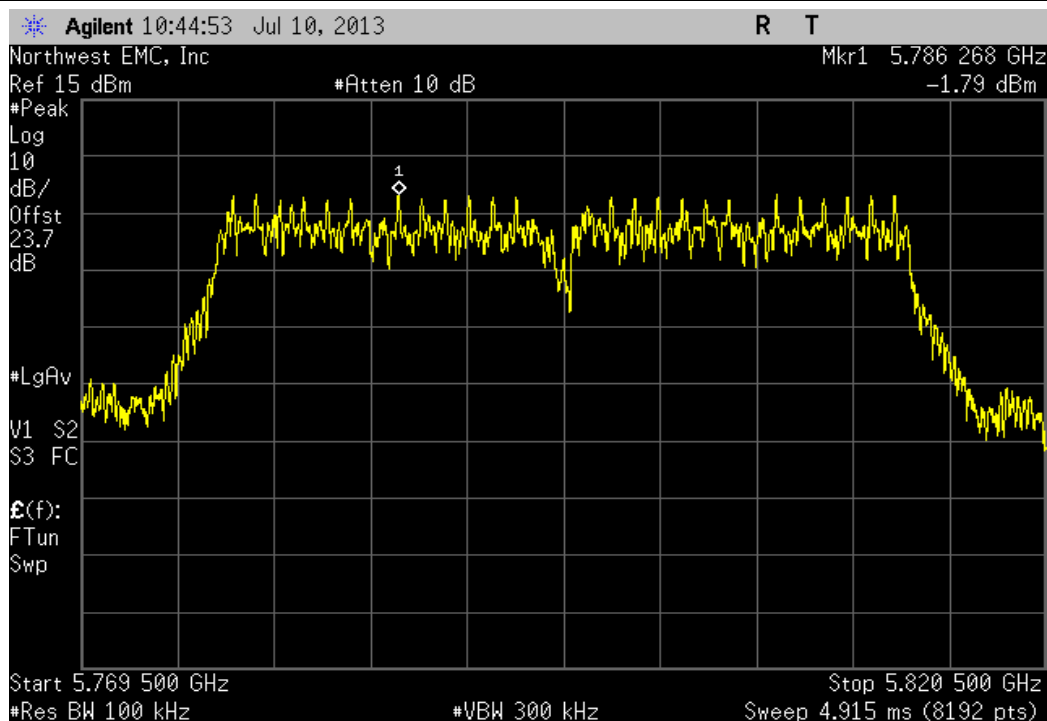
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-42.85 dBc	≤ -20 dBc	Pass	



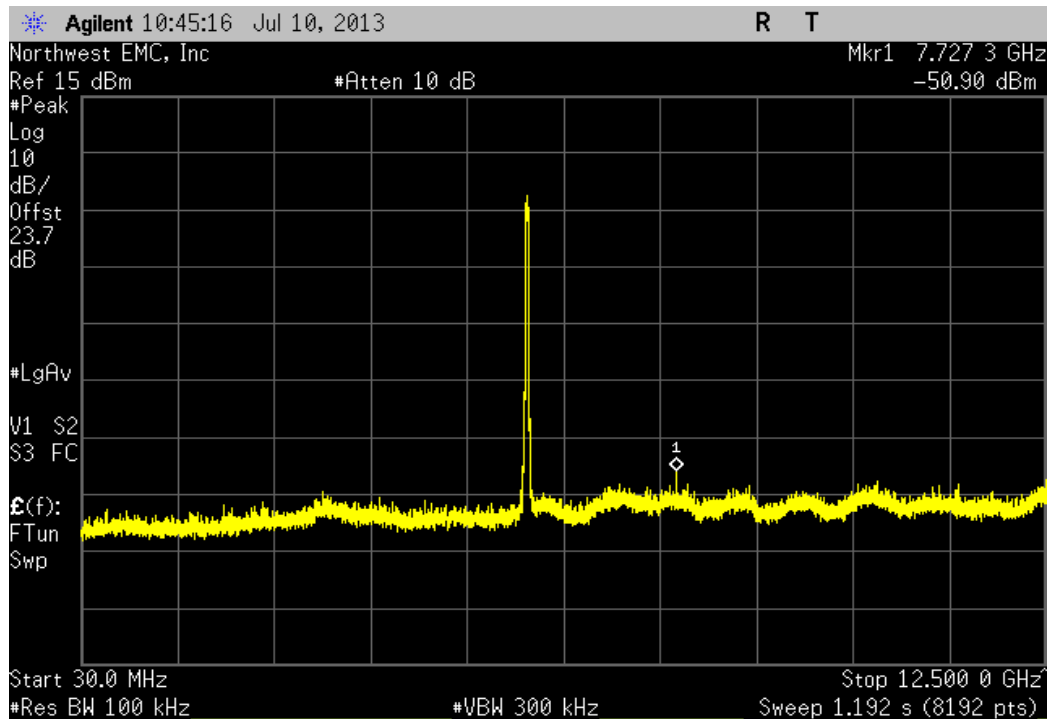
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-33.5 dBc	≤ -20 dBc	Pass



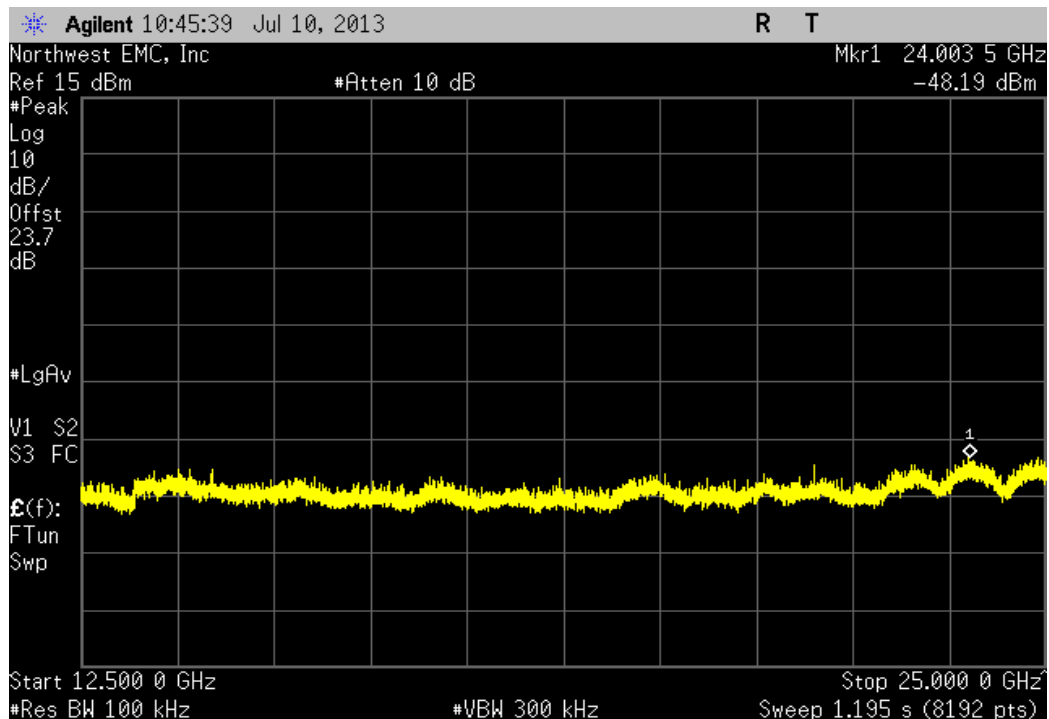
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



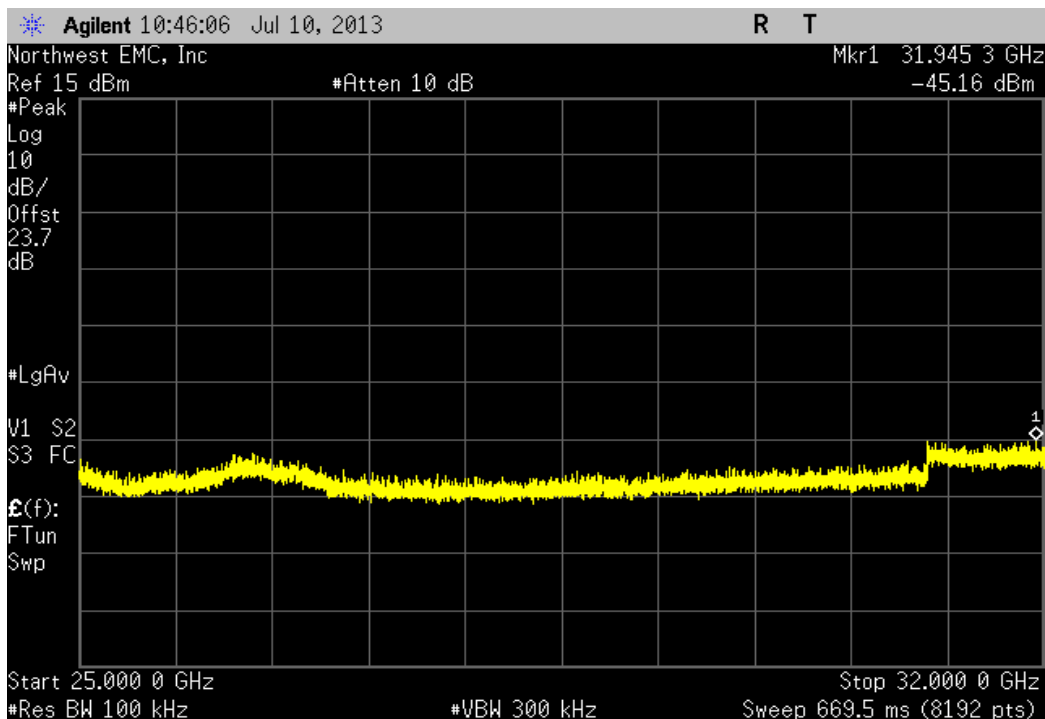
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.11 dBc	≤ -20 dBc	Pass	



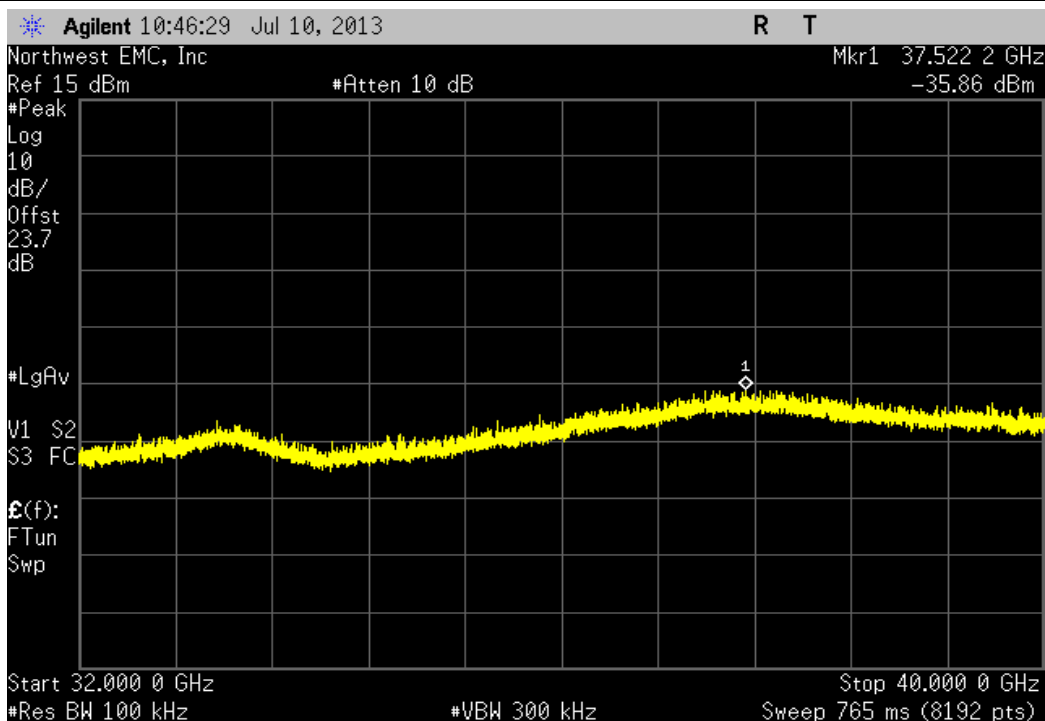
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.4 dBc	≤ -20 dBc	Pass	



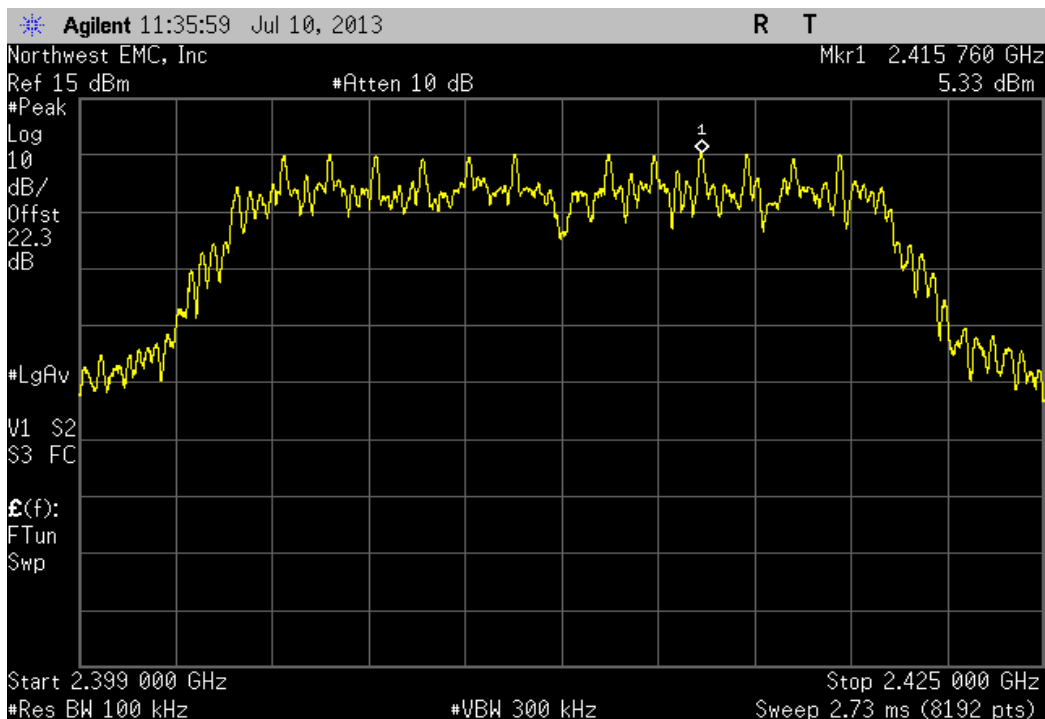
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-43.37 dBc	≤ -20 dBc	Pass



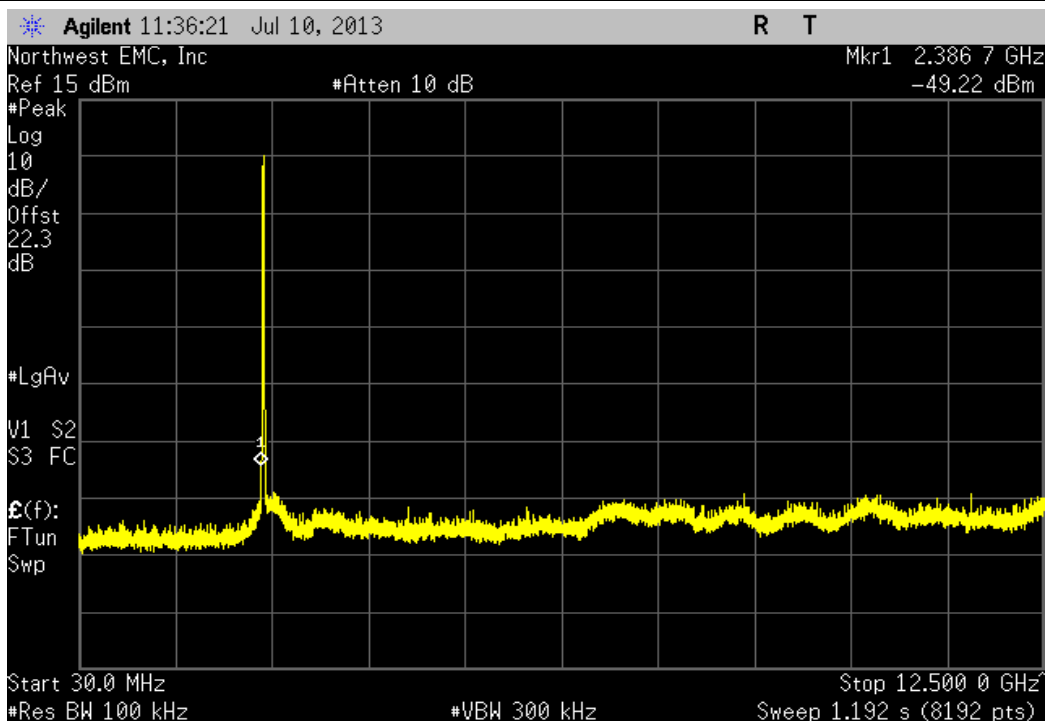
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.07 dBc	≤ -20 dBc	Pass



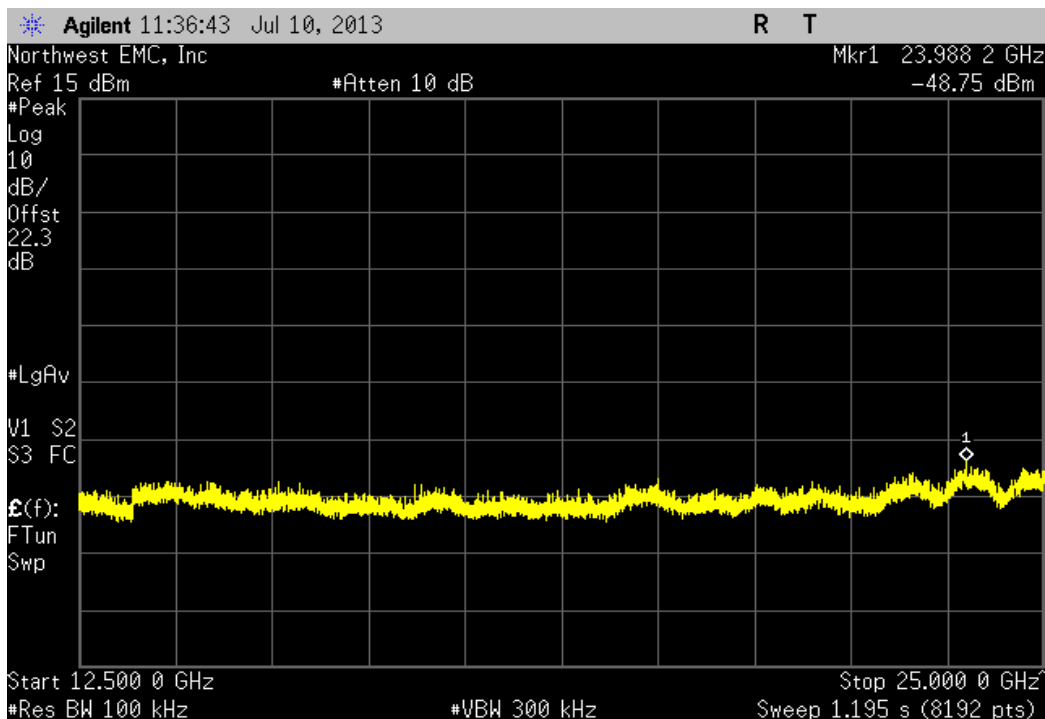
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



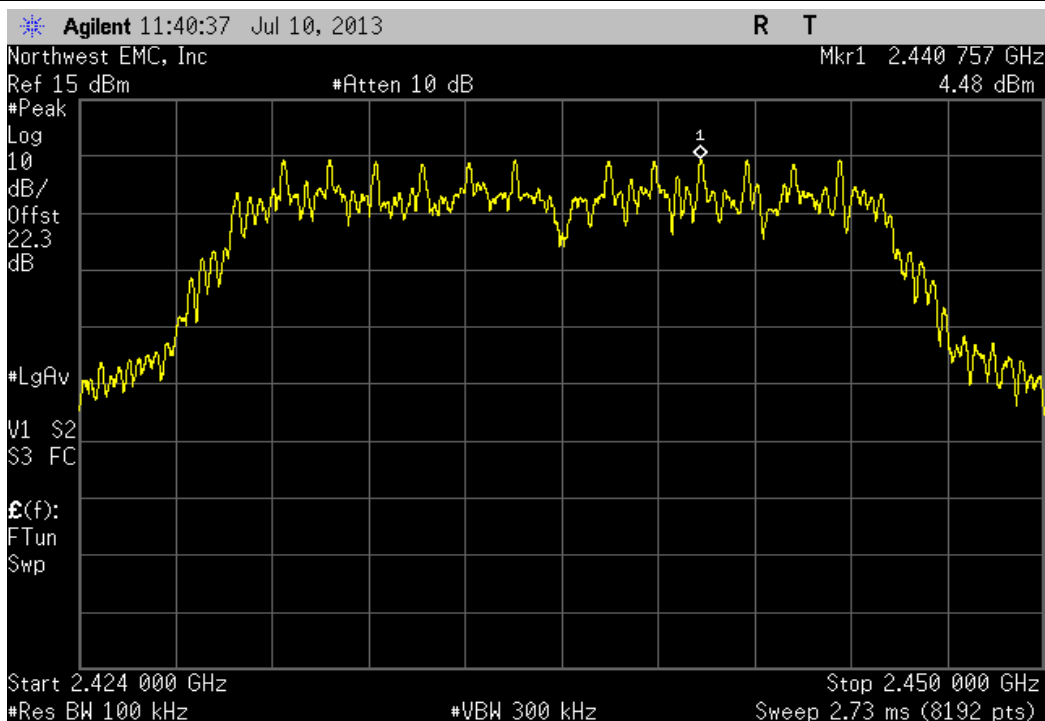
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-54.55 dBc	≤ -20 dBc	Pass



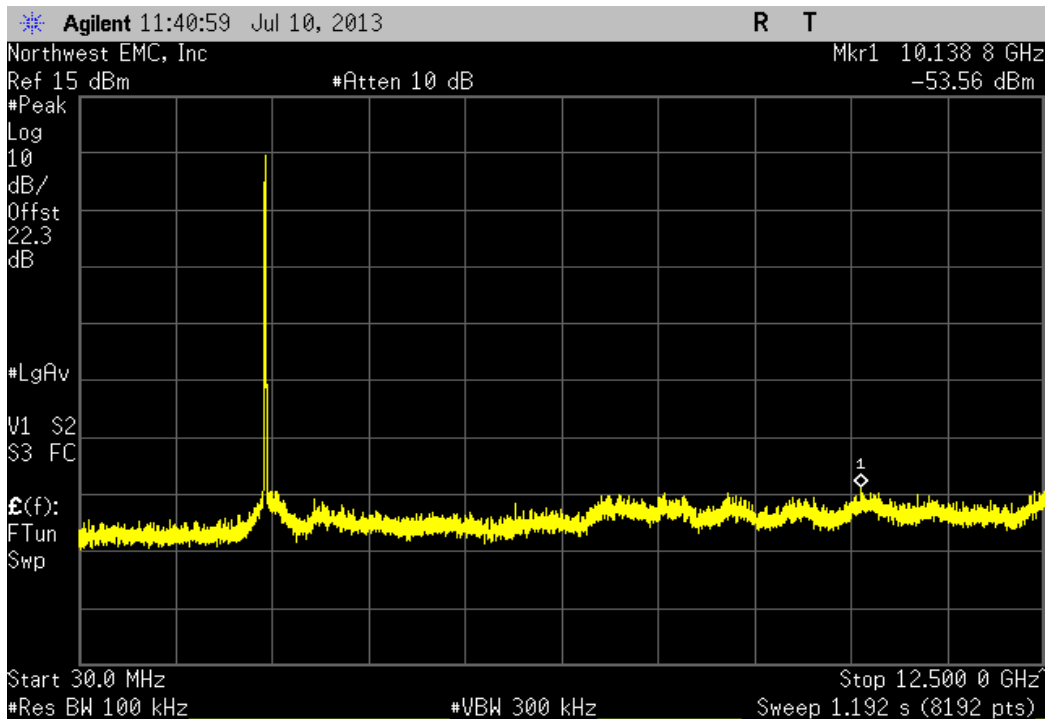
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.08 dBc	≤ -20 dBc	Pass	



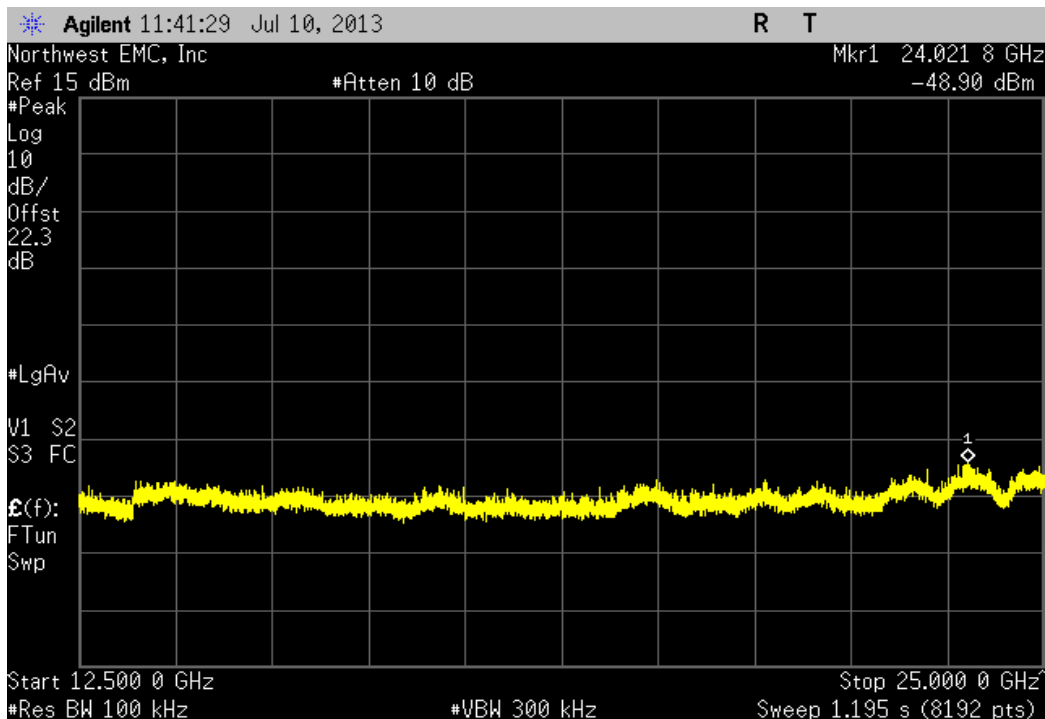
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



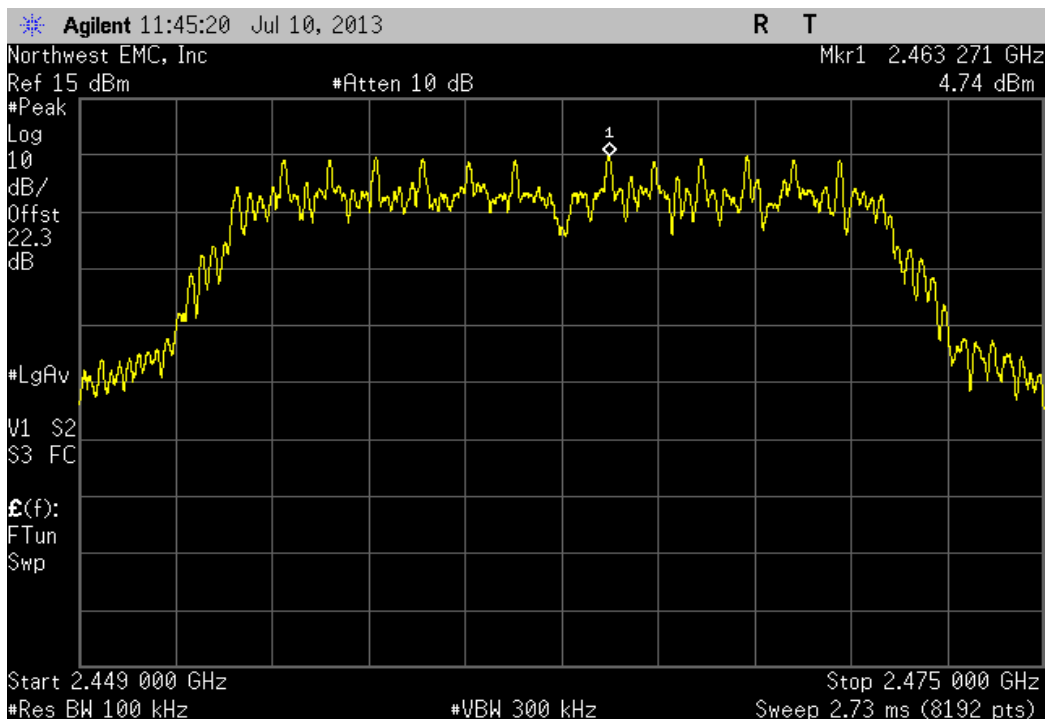
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.04 dBc	≤ -20 dBc	Pass	



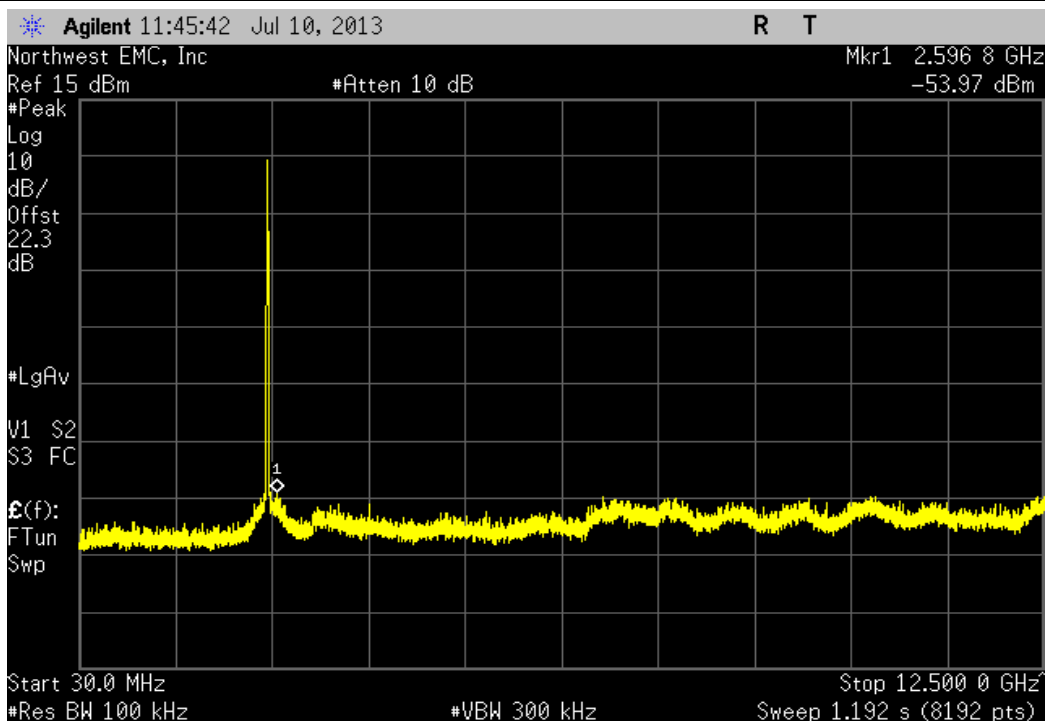
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.38 dBc	≤ -20 dBc	Pass	



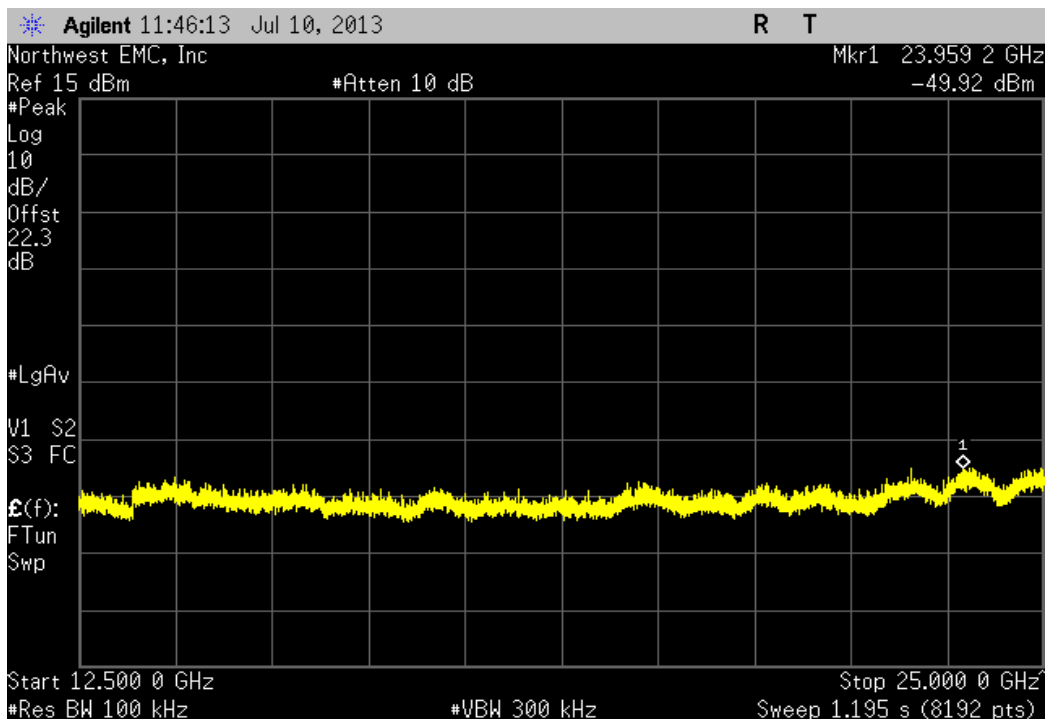
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



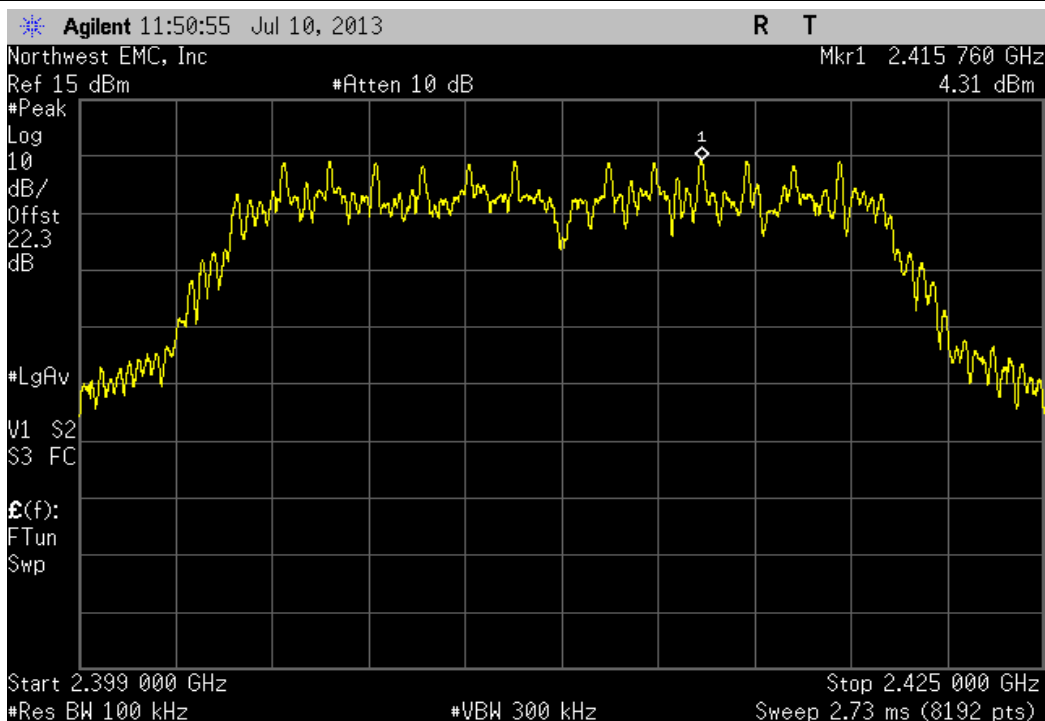
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-58.71 dBc	≤ -20 dBc	Pass



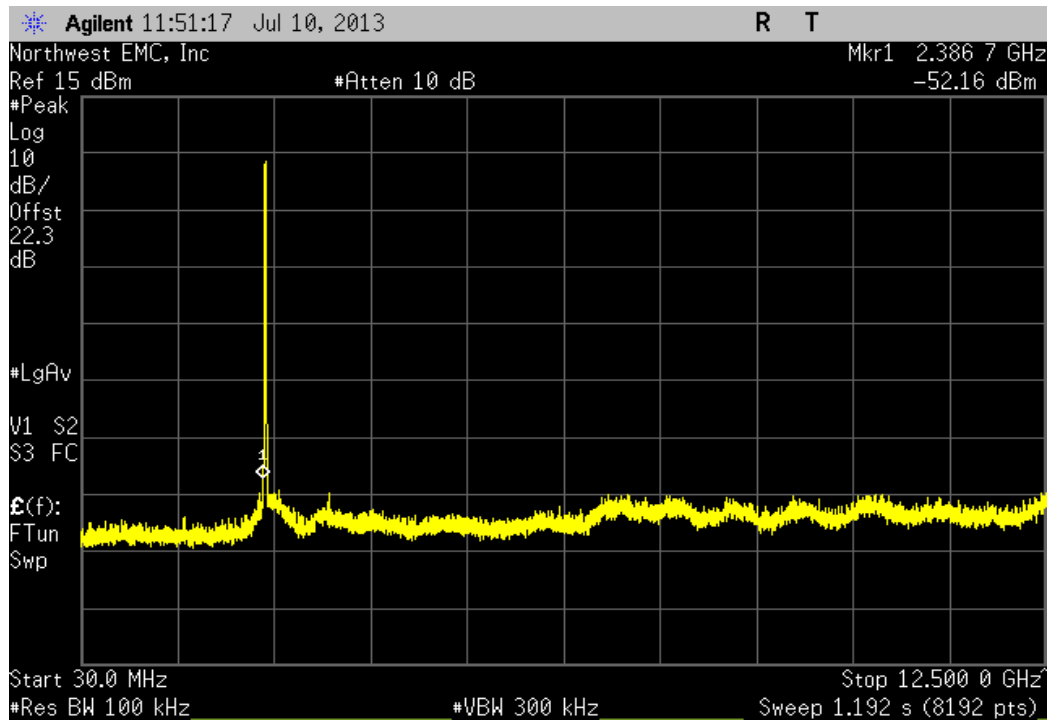
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz				
Frequency		Value	Limit	Result
Range				
12.5 GHz - 25 GHz		-54.66 dBc	≤ -20 dBc	Pass



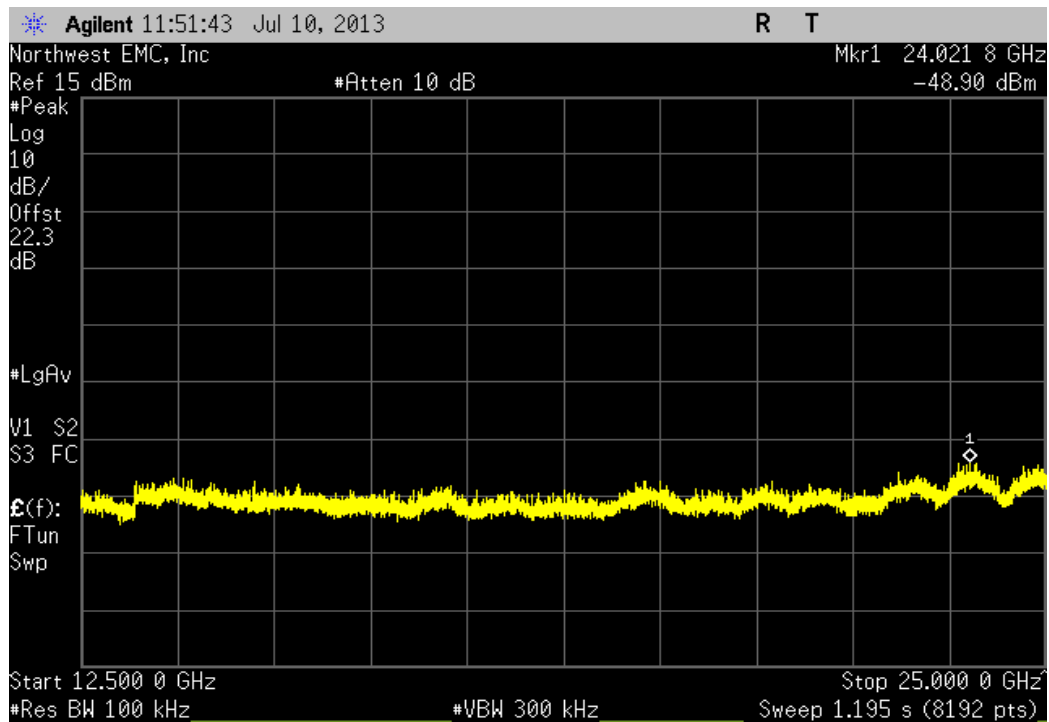
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency		Value	Limit	Result
Range				
Fundamental		N/A	N/A	N/A



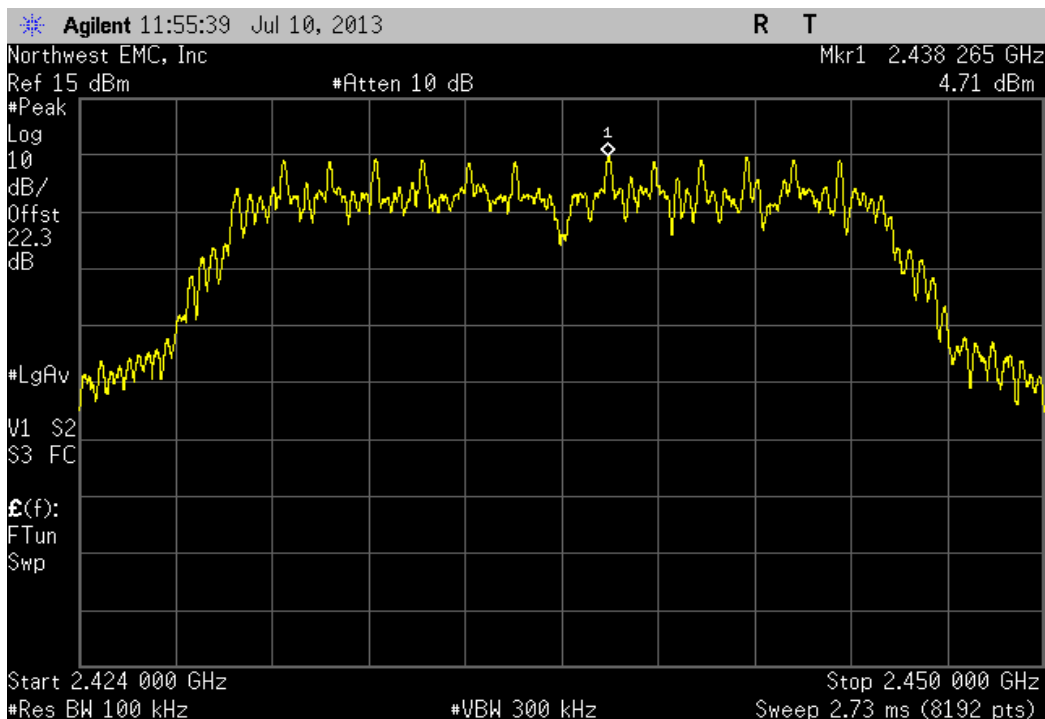
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-56.47 dBc	≤ -20 dBc	Pass	



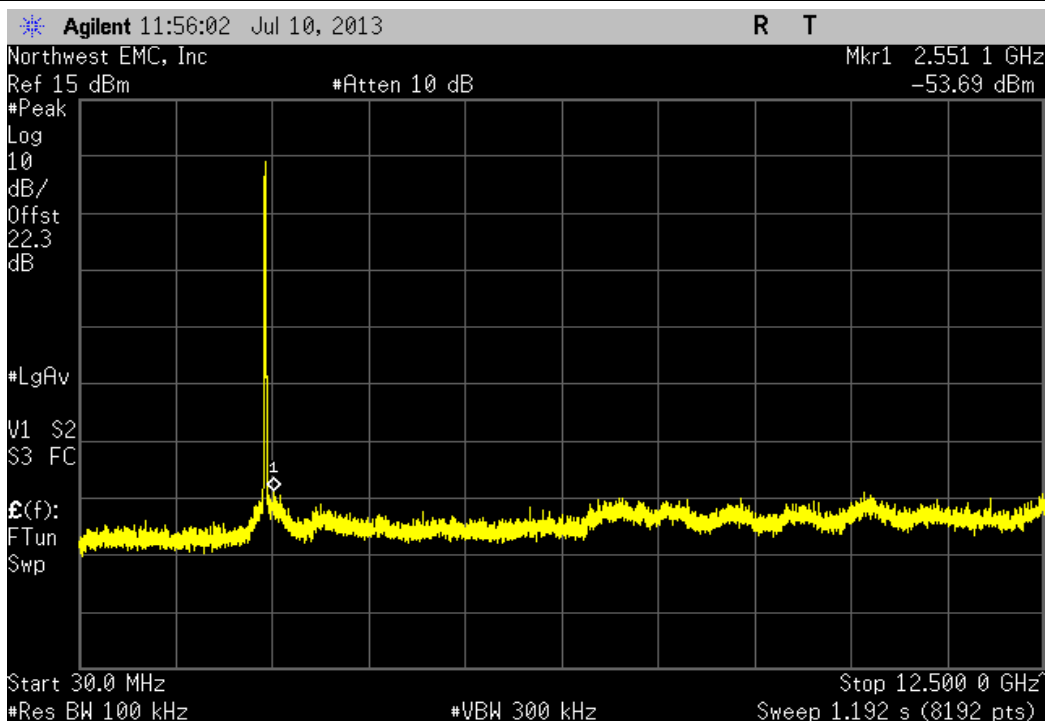
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.21 dBc	≤ -20 dBc	Pass	



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

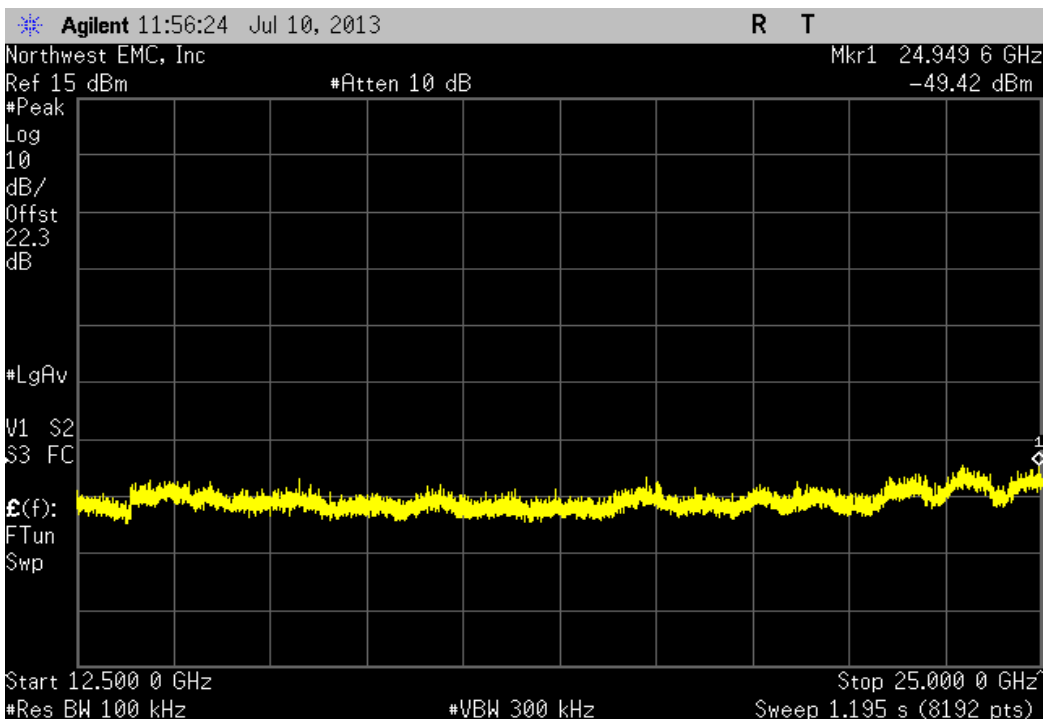


Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-58.4 dBc	≤ -20 dBc	Pass



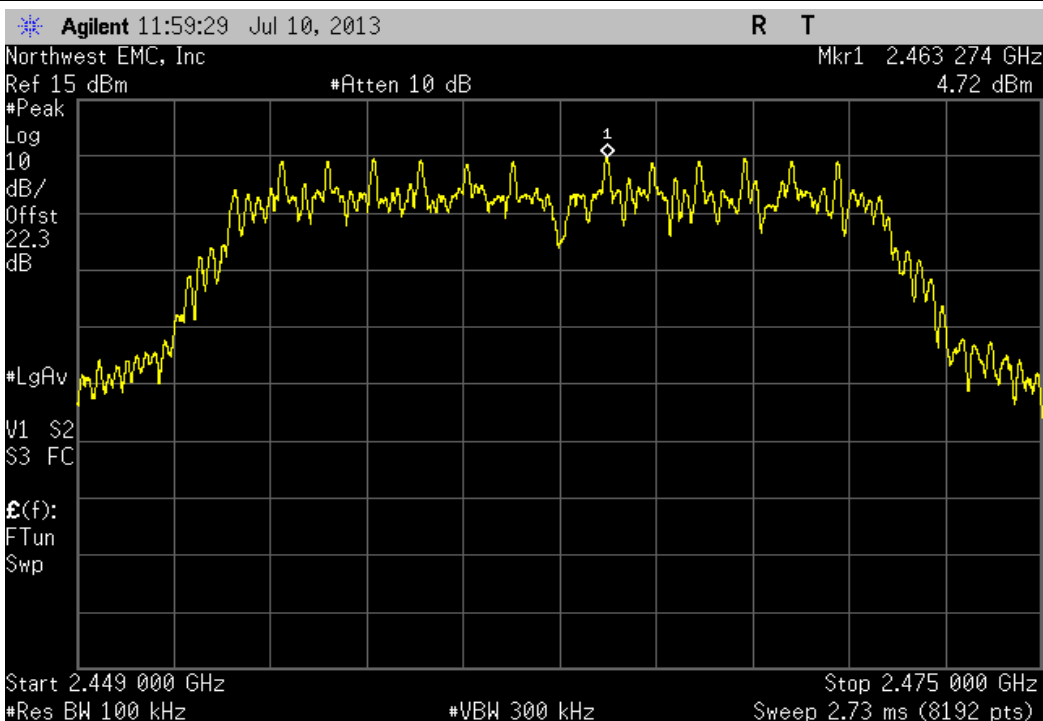
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 6, 2437 MHz

Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-54.13 dBc	≤ -20 dBc	Pass

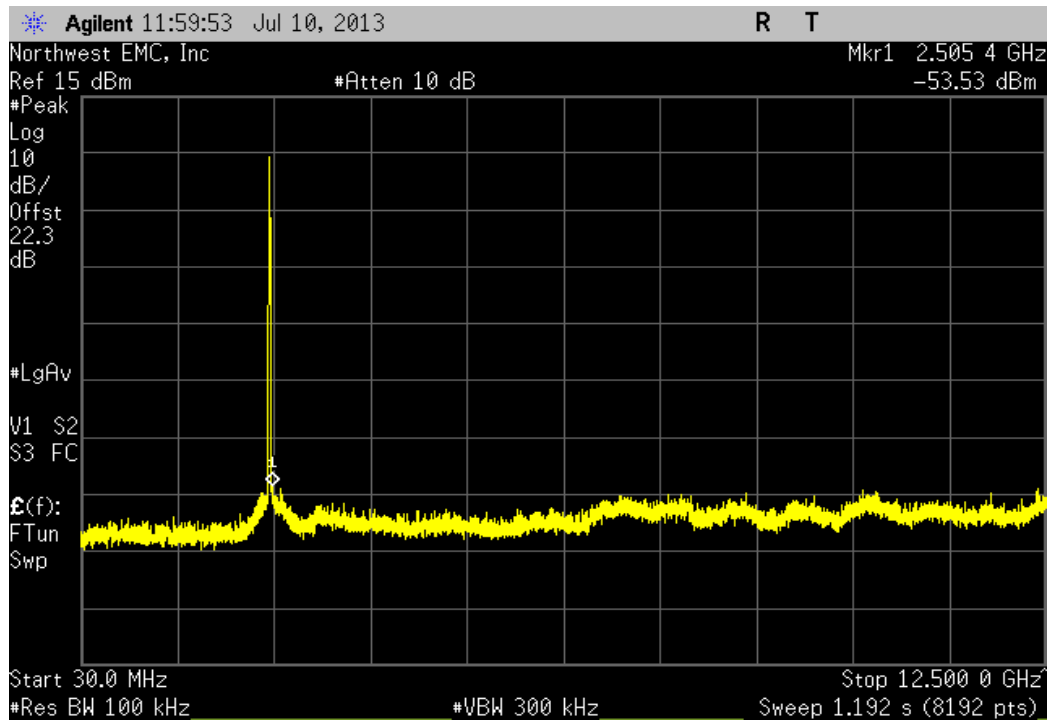


Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz

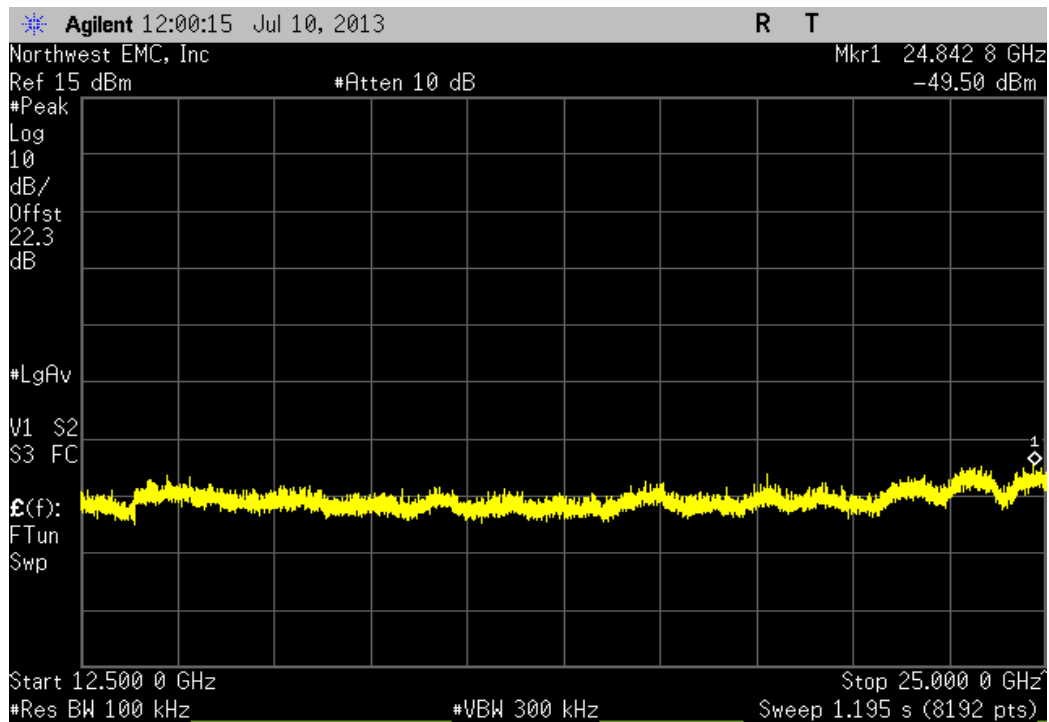
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



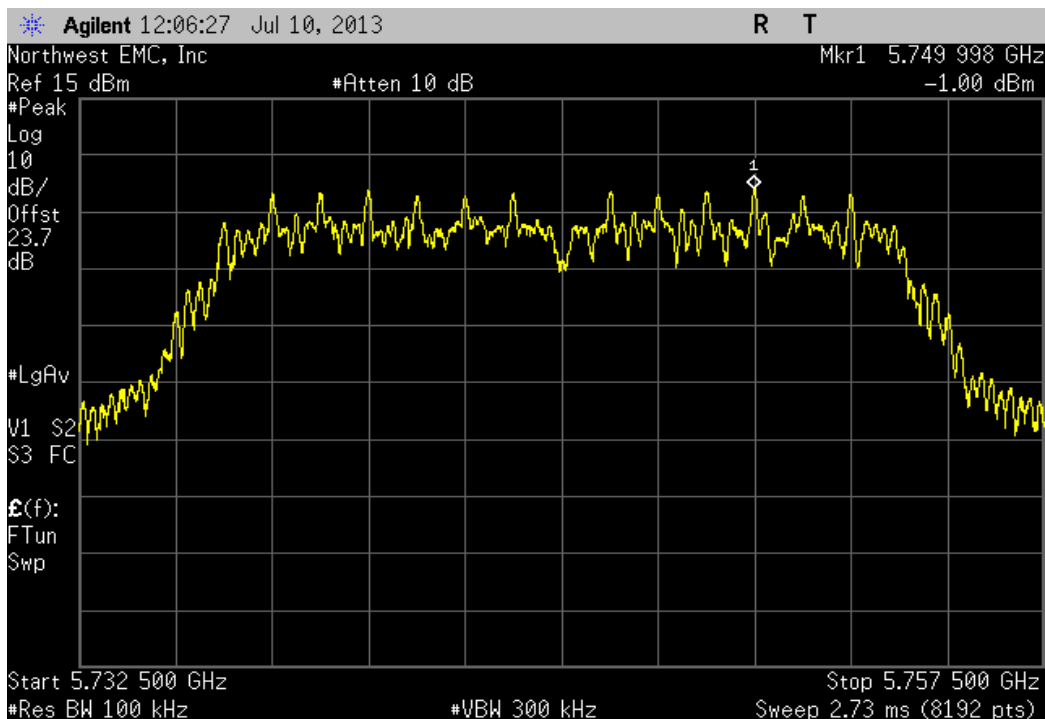
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.26 dBc	≤ -20 dBc	Pass	



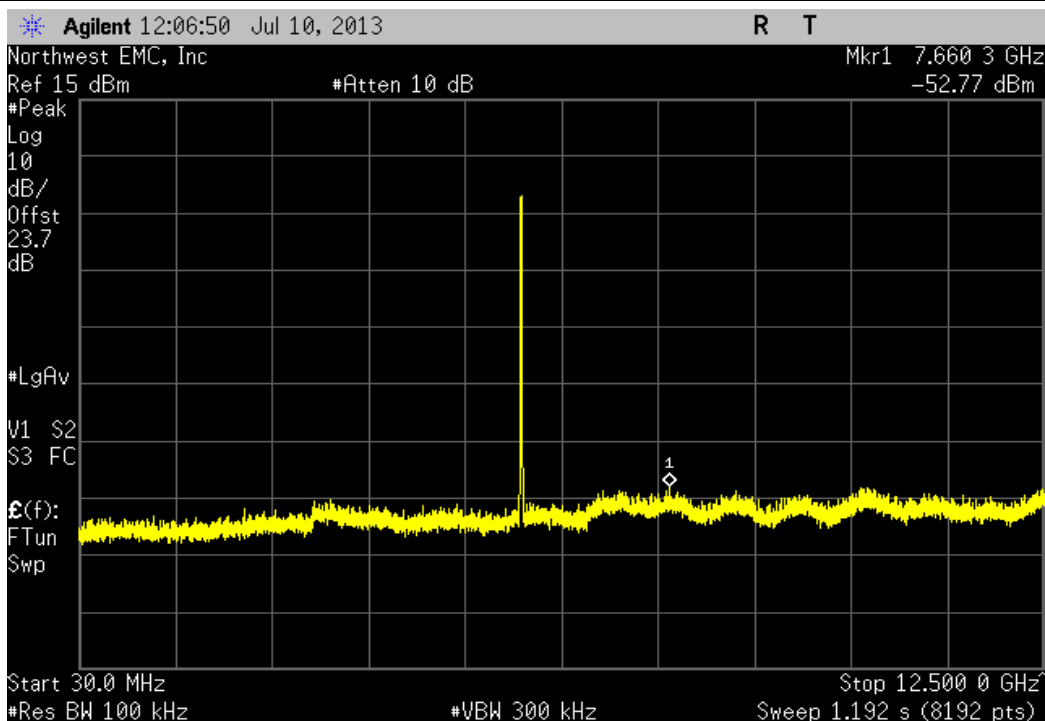
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.23 dBc	≤ -20 dBc	Pass	



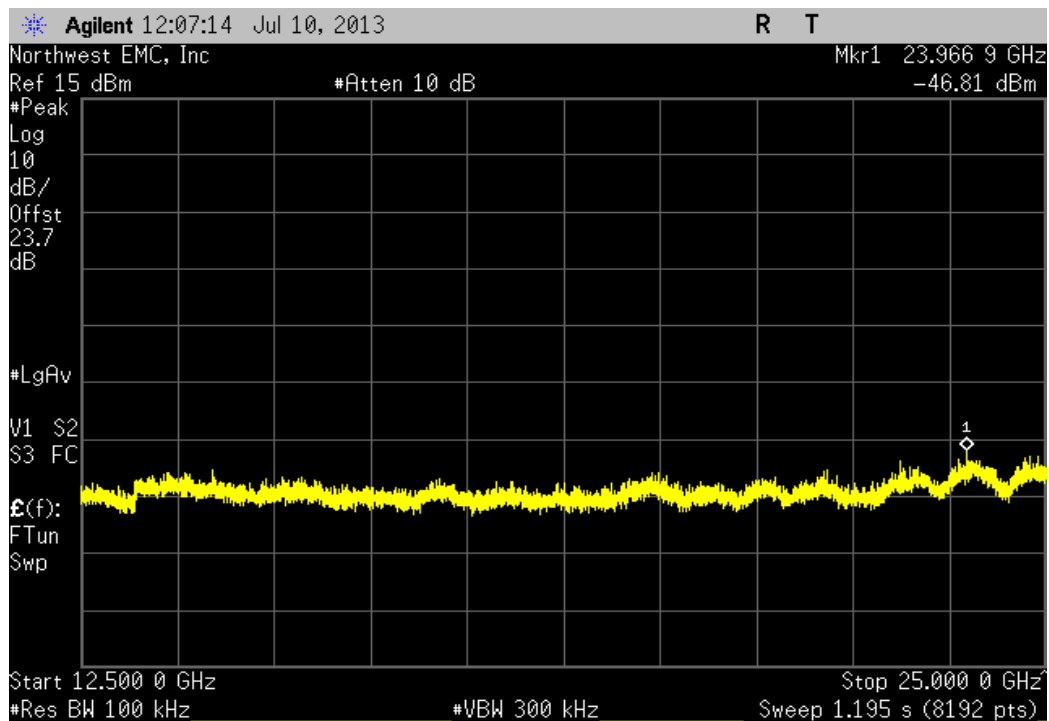
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



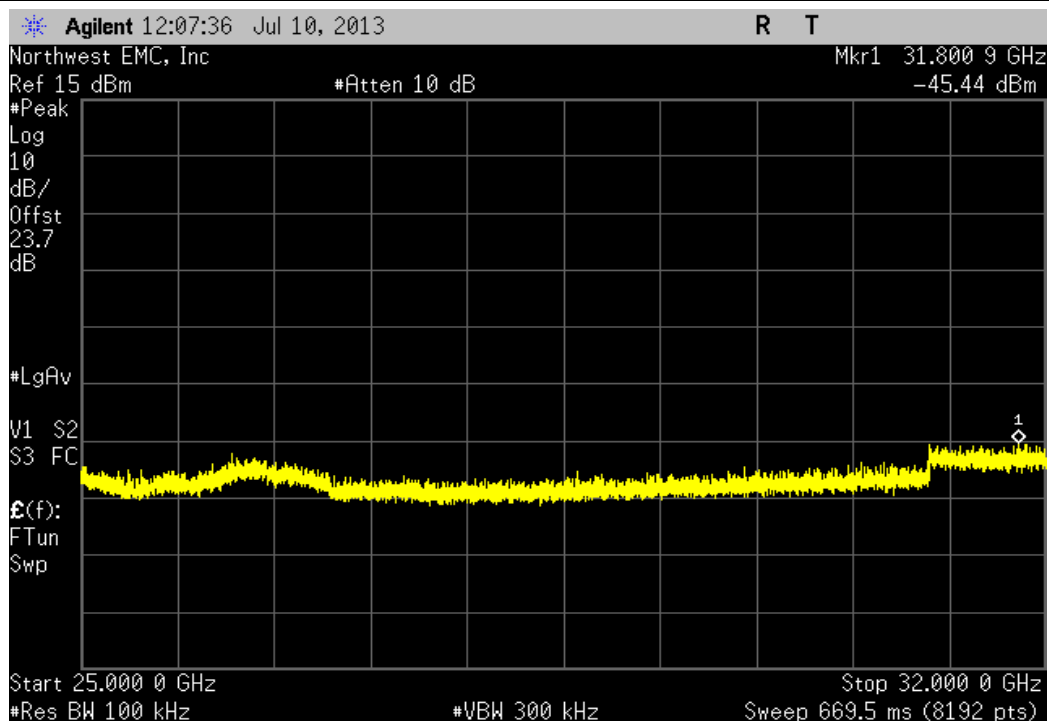
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-51.77 dBc	≤ -20 dBc	Pass



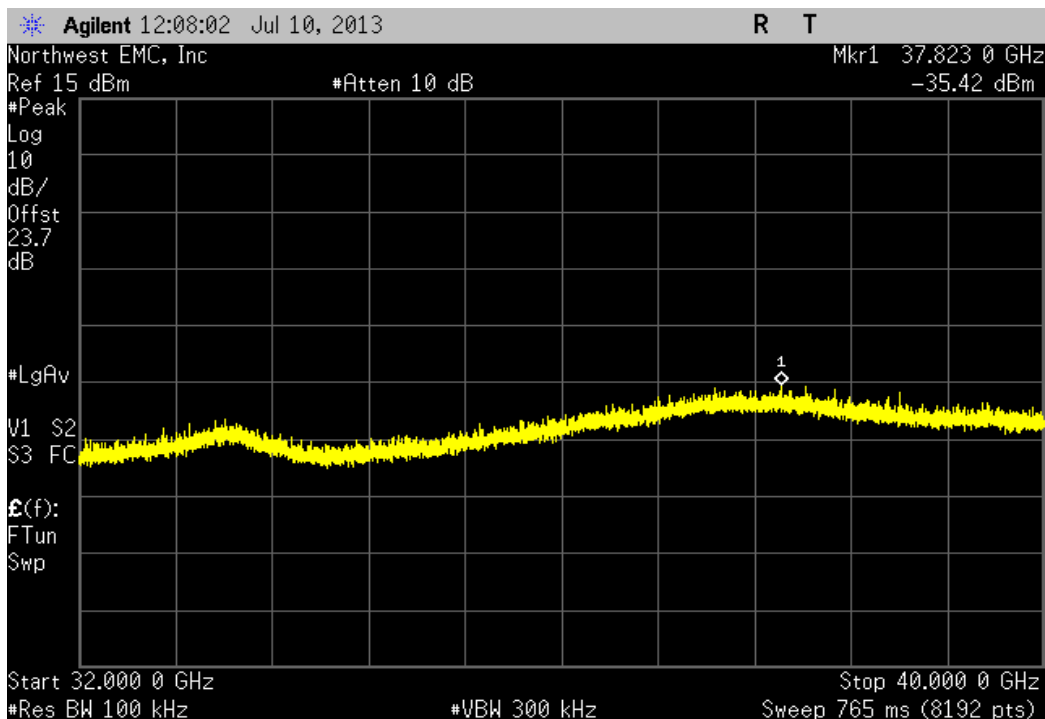
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.81 dBc	≤ -20 dBc	Pass	



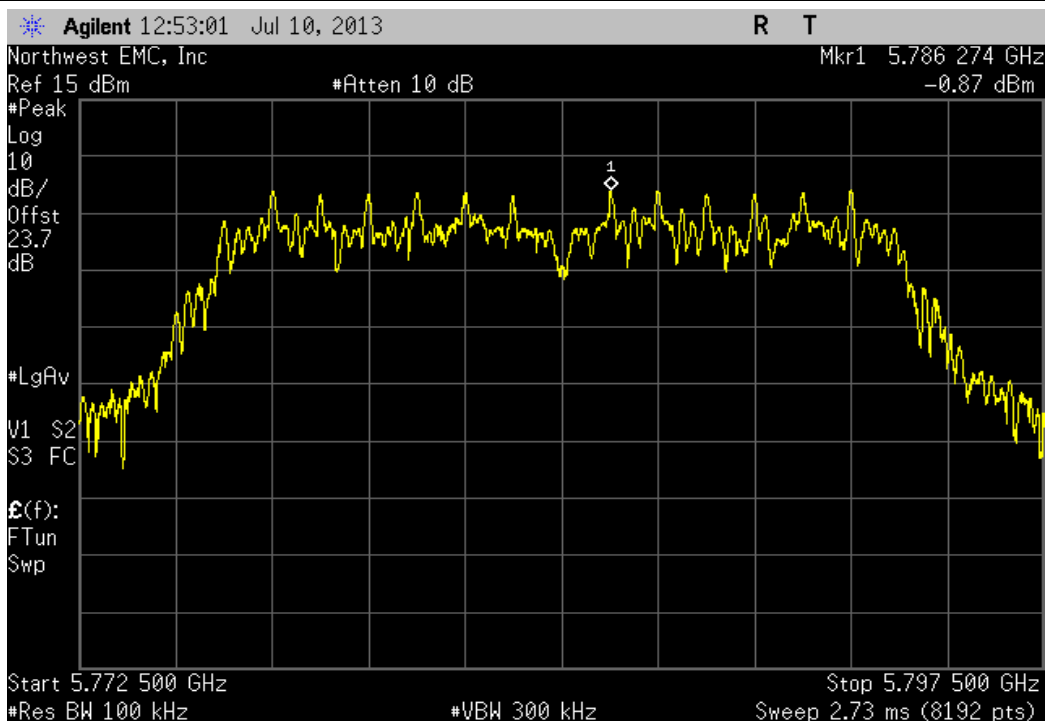
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-44.44 dBc	≤ -20 dBc	Pass	



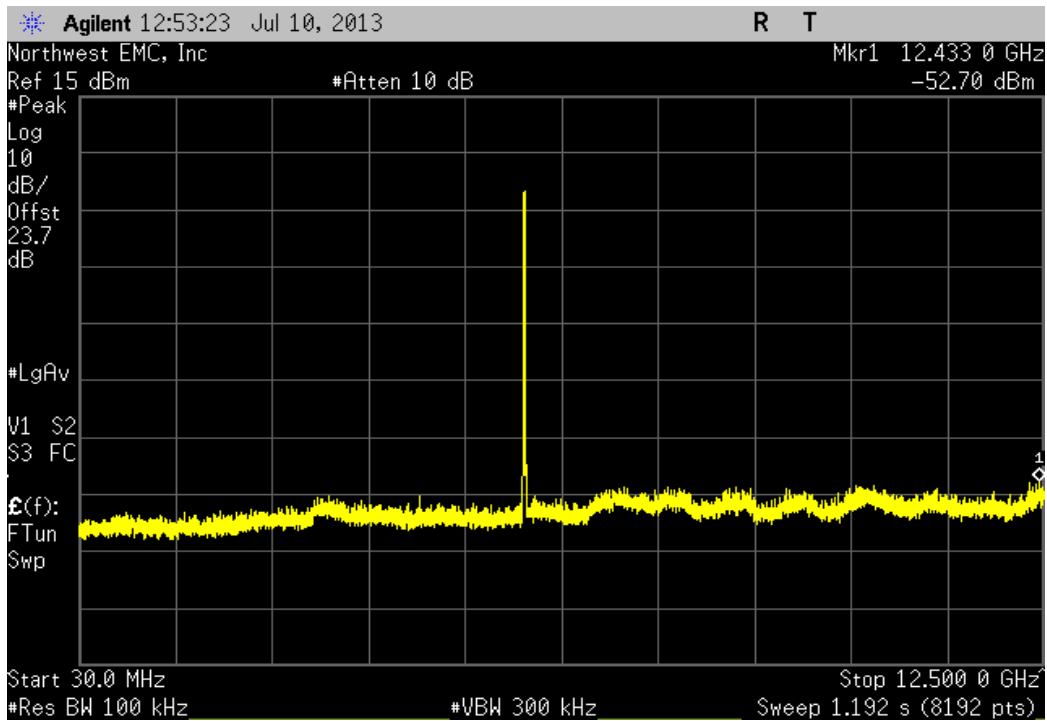
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz						
Frequency Range			Value	Limit	Result	
32 GHz - 40 GHz			-34.42 dBc	≤ -20 dBc	Pass	



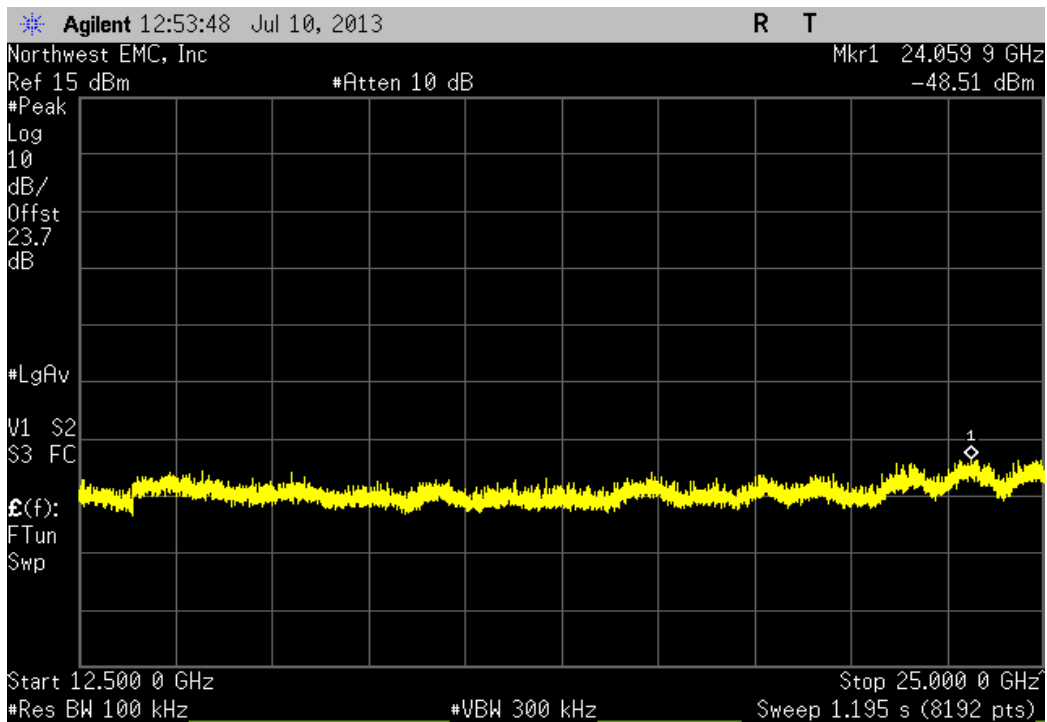
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz						
Frequency Range			Value	Limit	Result	
Fundamental			N/A	N/A	N/A	



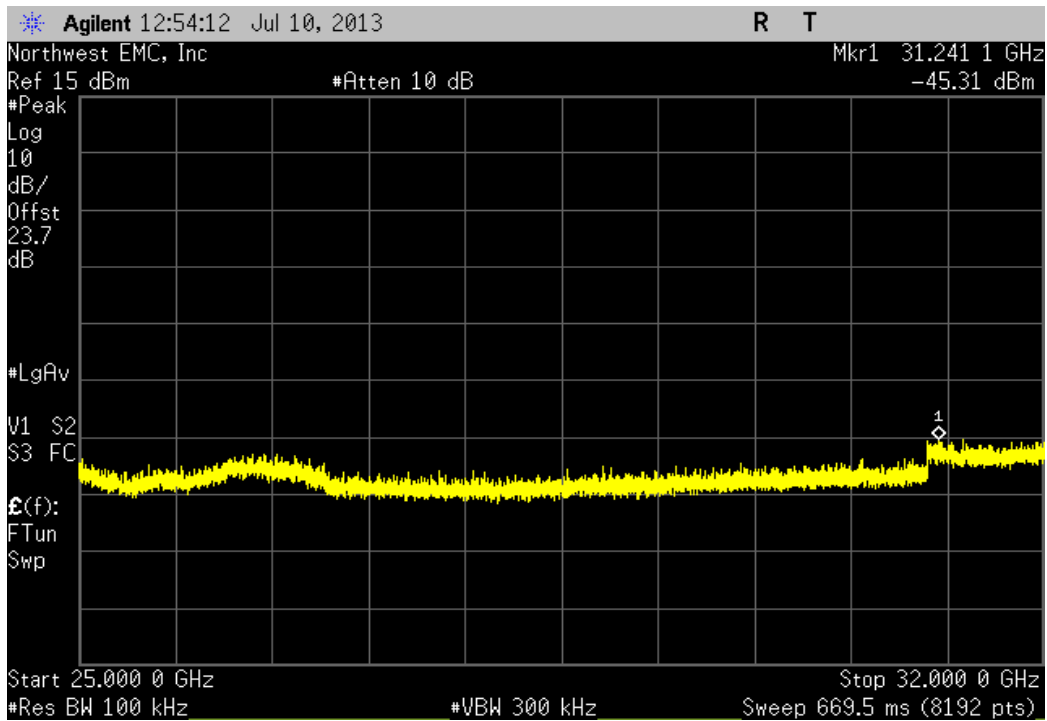
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.84 dBc	≤ -20 dBc	Pass	



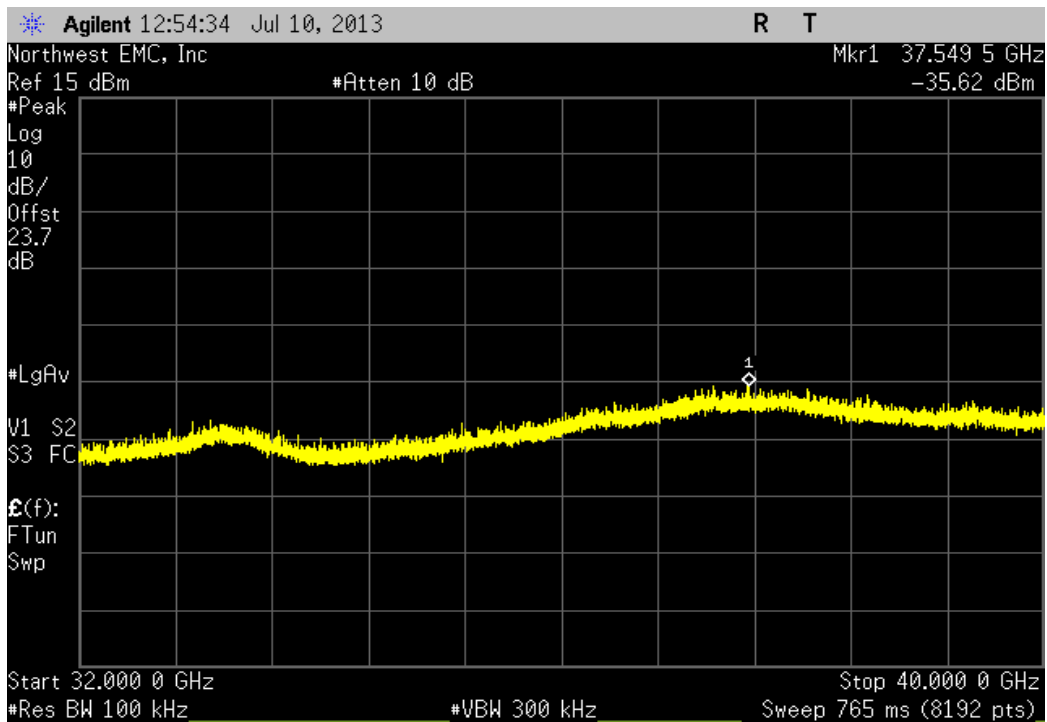
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.65 dBc	≤ -20 dBc	Pass	



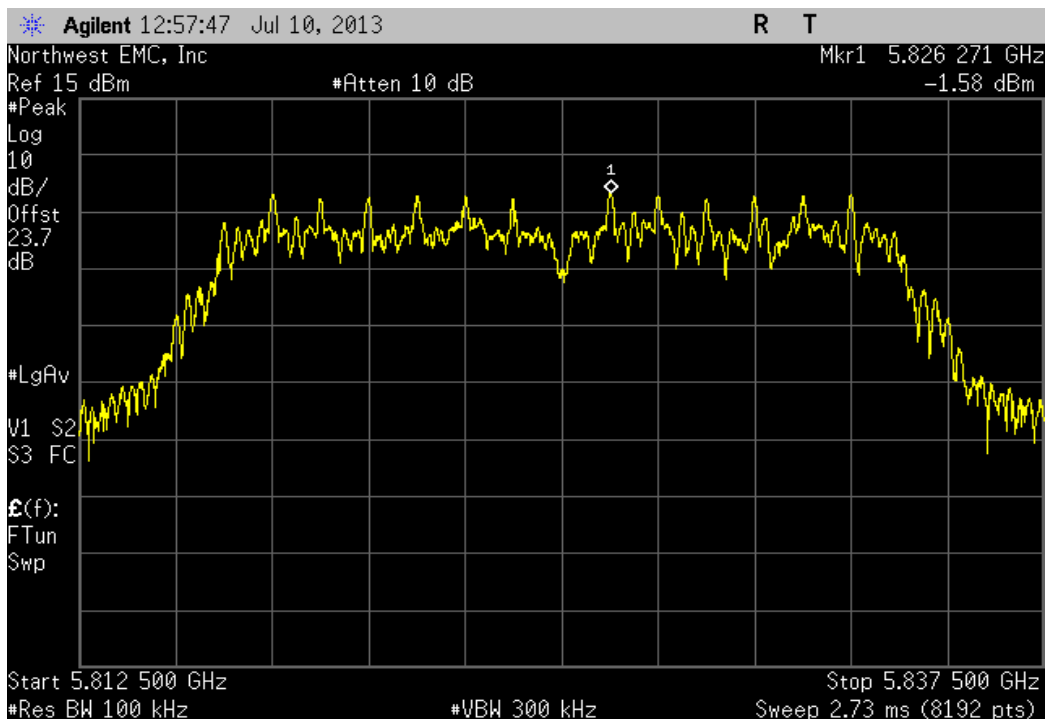
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-44.45 dBc	≤ -20 dBc	Pass



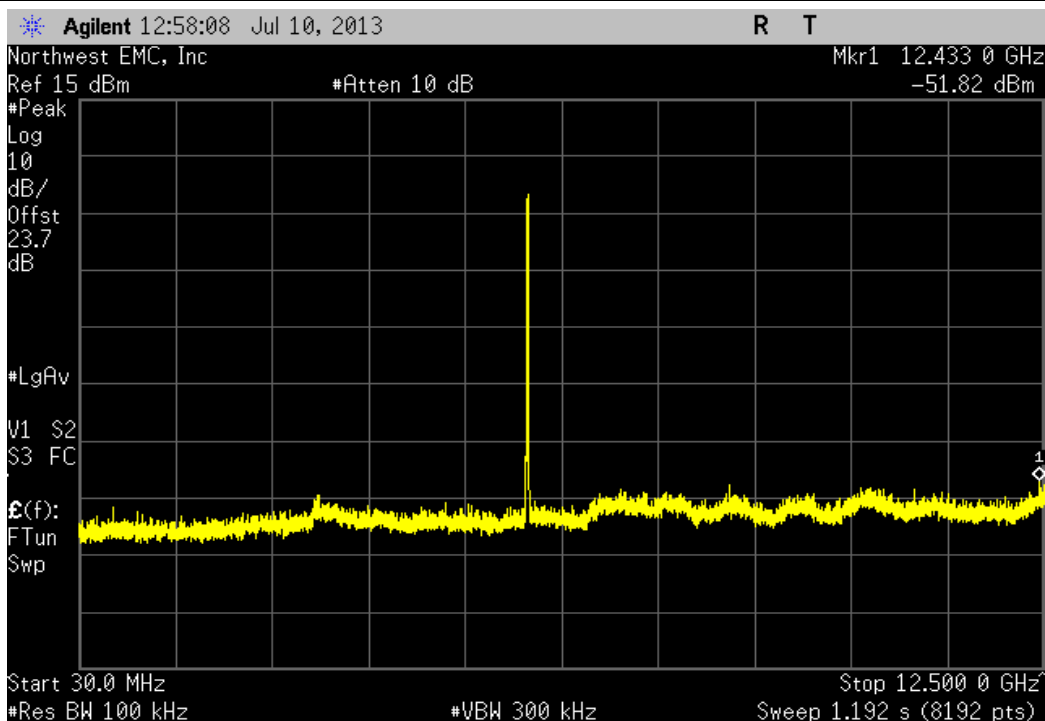
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.76 dBc	≤ -20 dBc	Pass



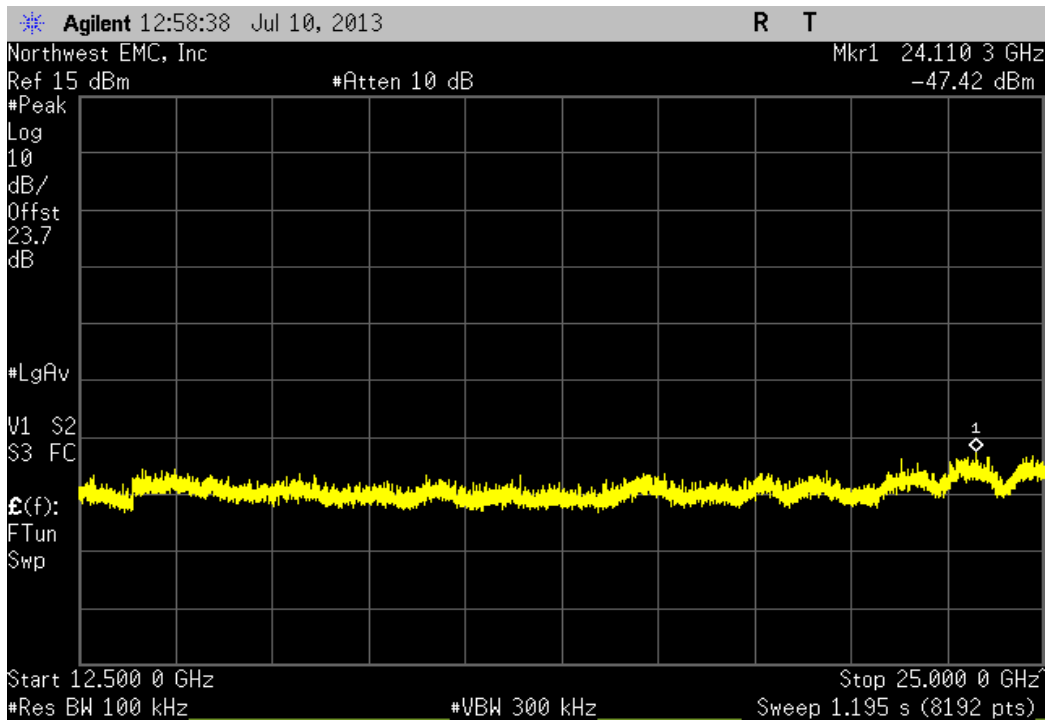
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



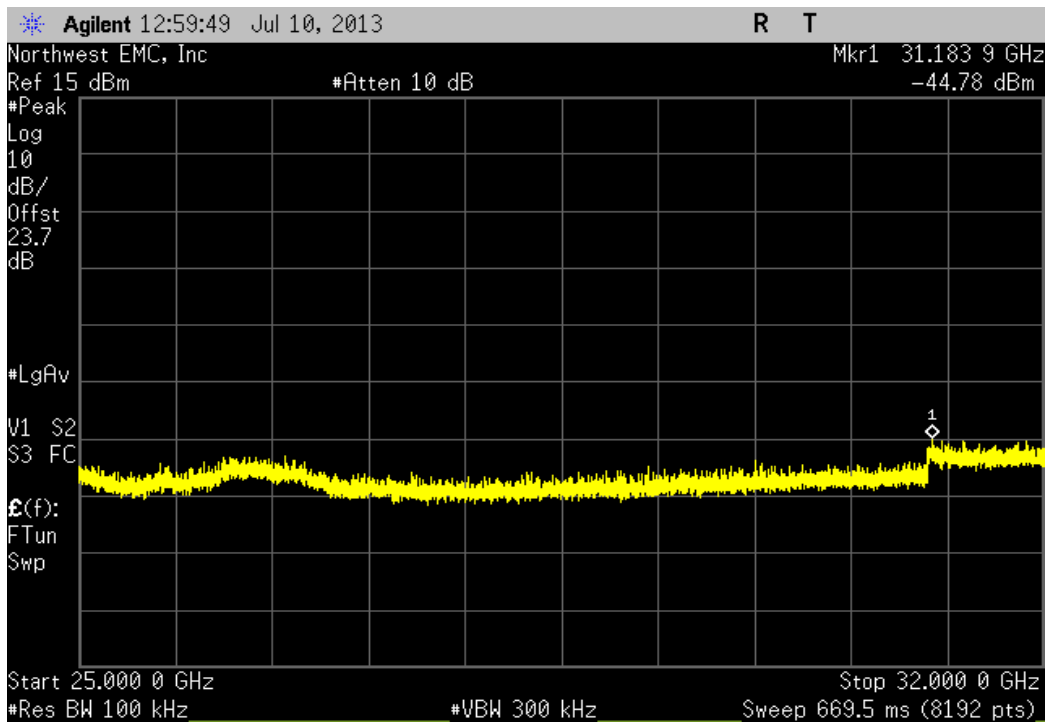
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-50.24 dBc	≤ -20 dBc	Pass



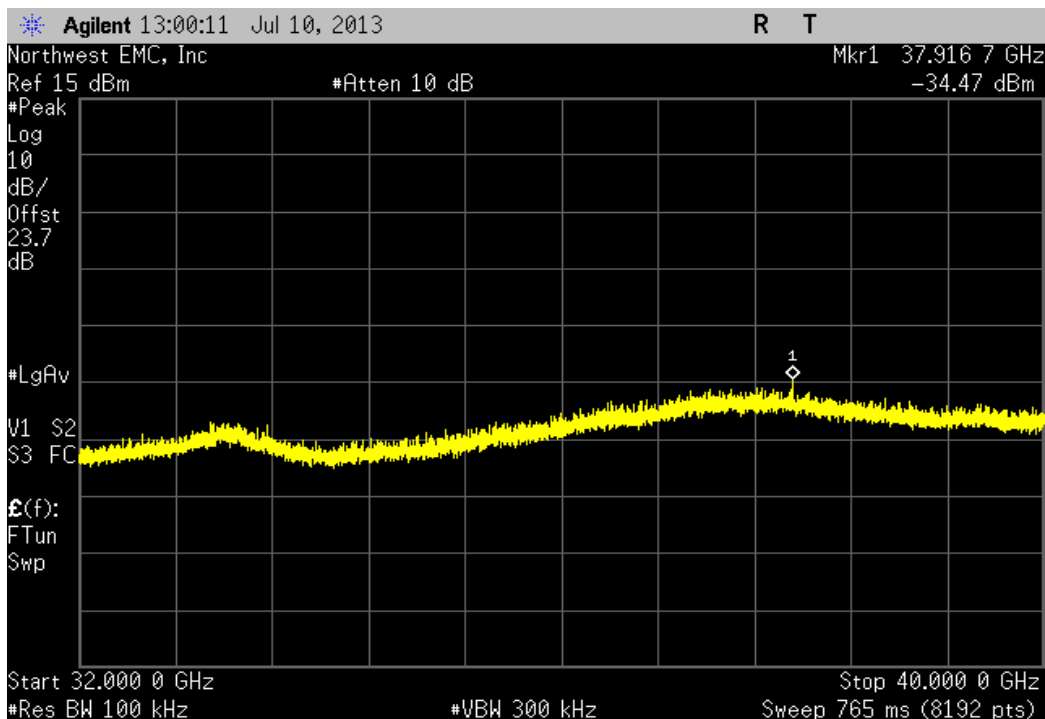
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.84 dBc	≤ -20 dBc	Pass	



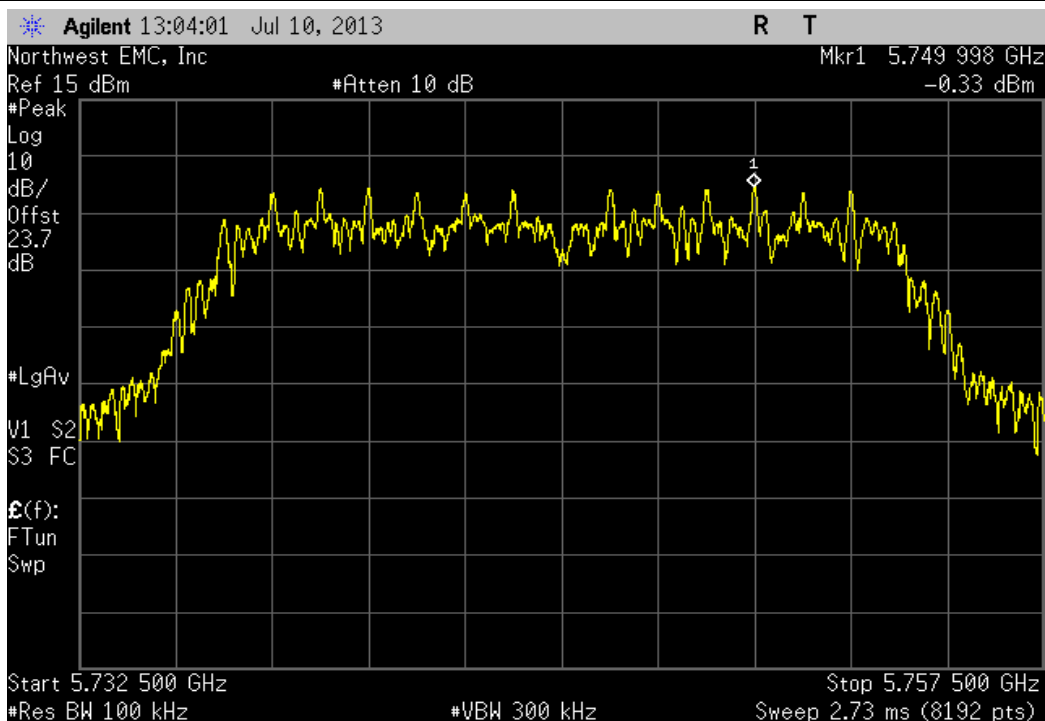
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43.2 dBc	≤ -20 dBc	Pass	



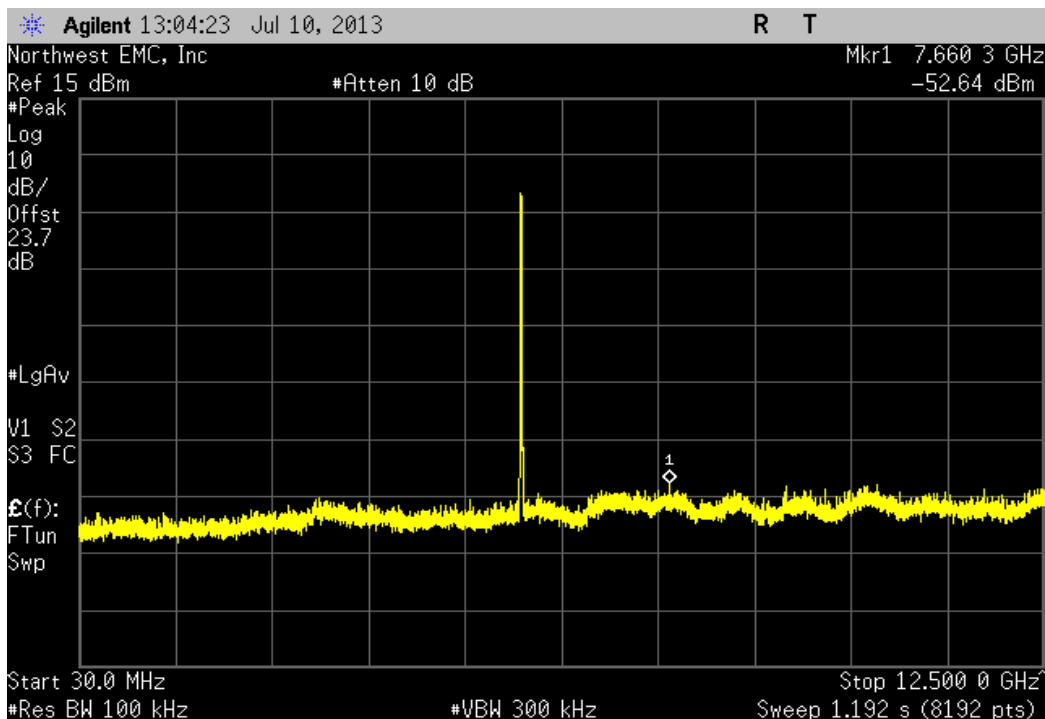
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz						
Frequency Range			Value	Limit	Result	
32 GHz - 40 GHz			-32.89 dBc	≤ -20 dBc	Pass	



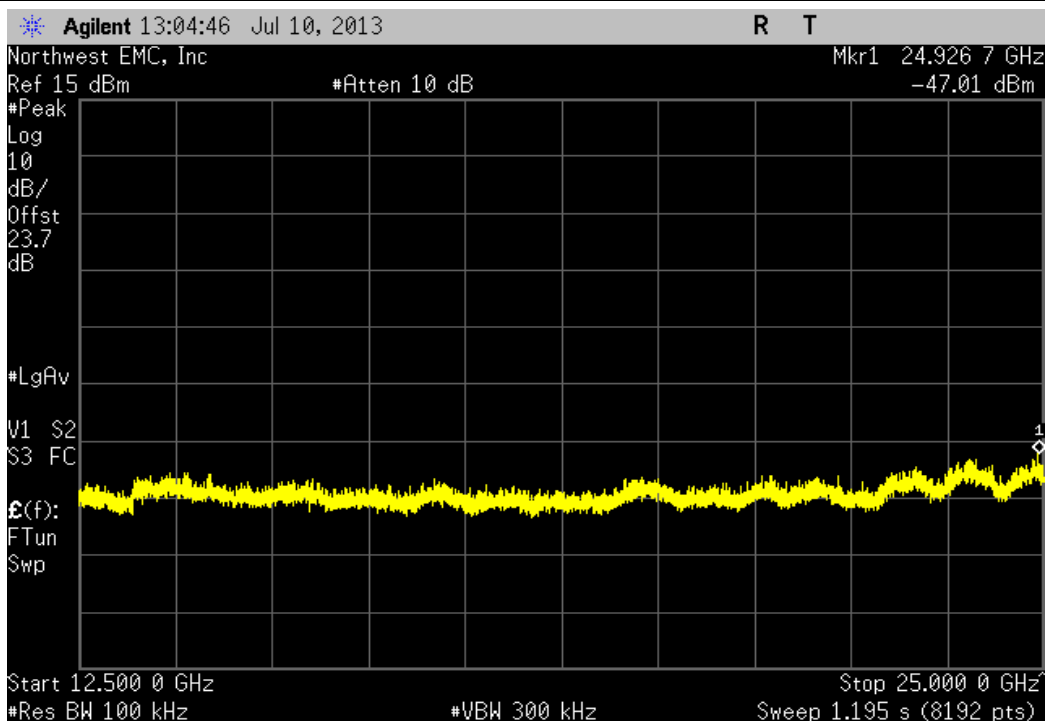
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz						
Frequency Range			Value	Limit	Result	
Fundamental			N/A	N/A	N/A	



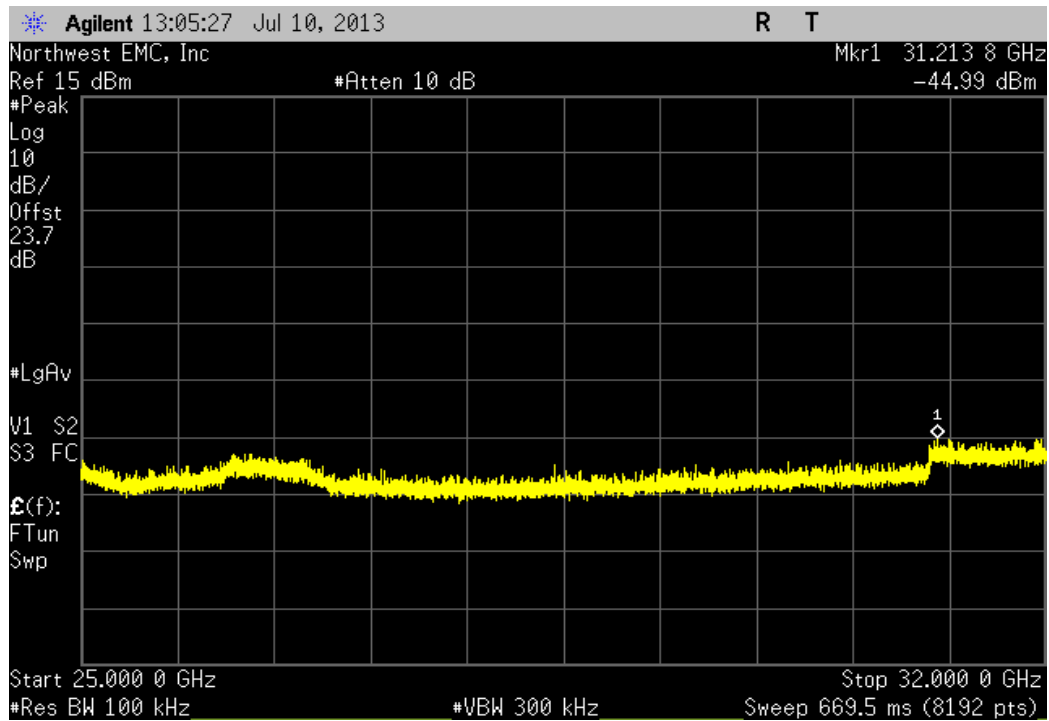
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.31 dBc	≤ -20 dBc	Pass	



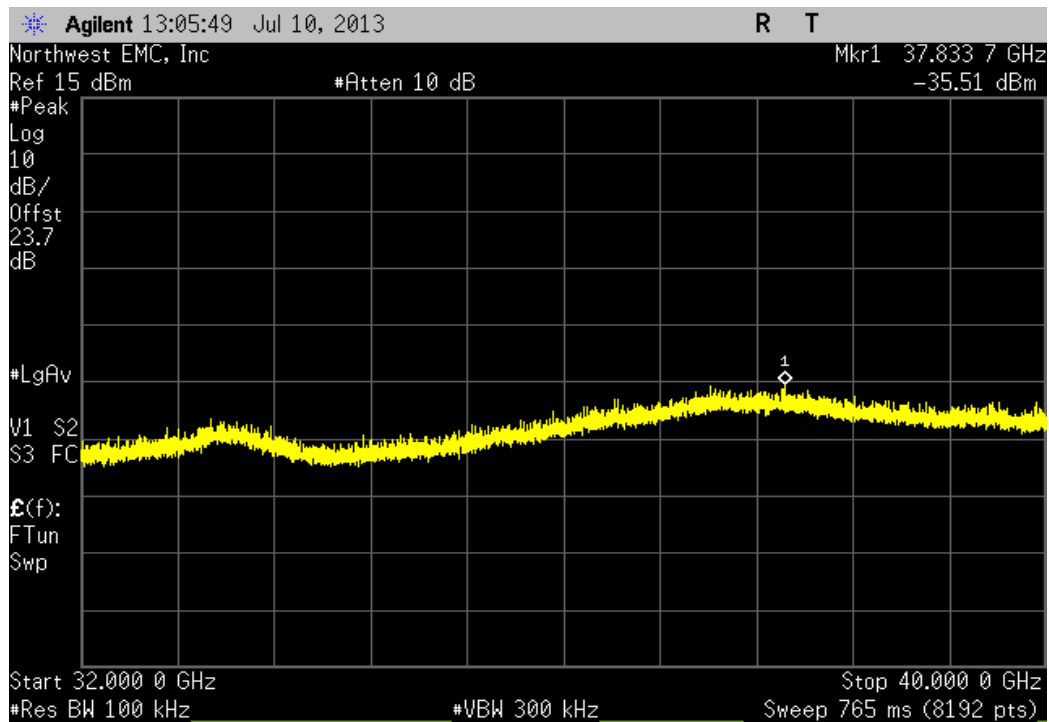
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.68 dBc	≤ -20 dBc	Pass	



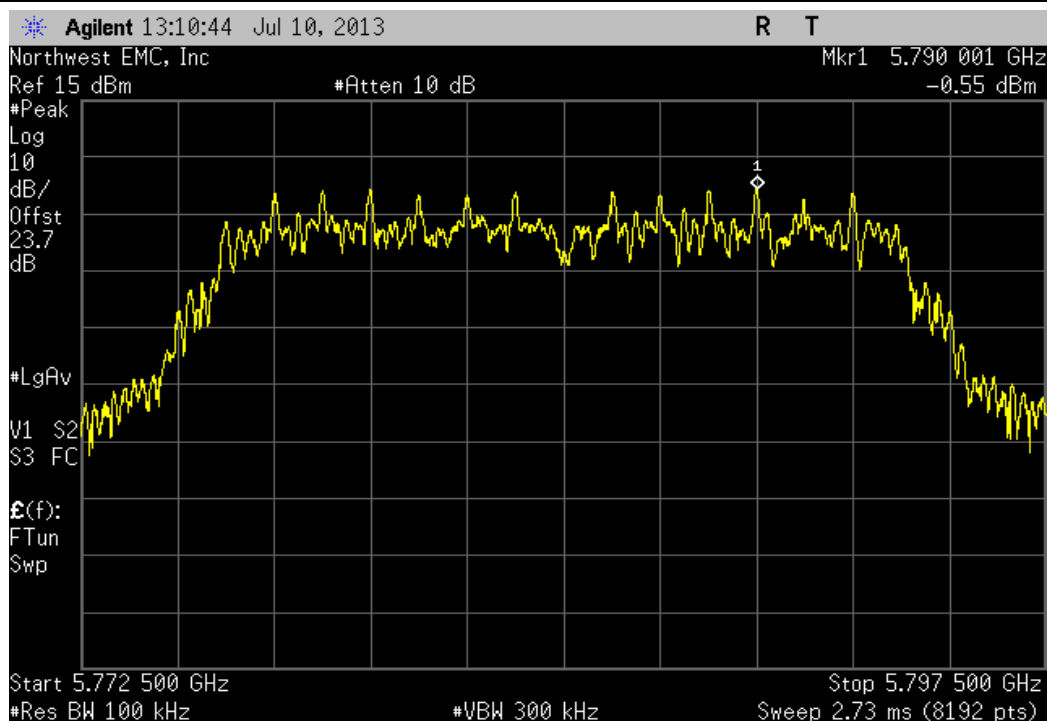
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-44.66 dBc	≤ -20 dBc	Pass



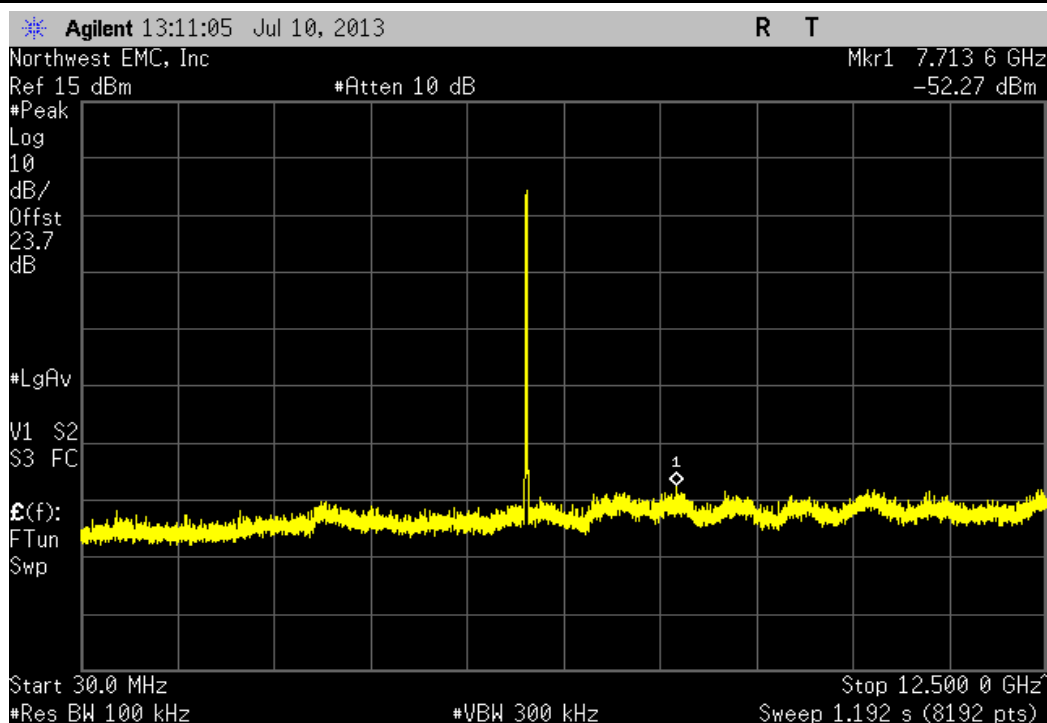
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-35.18 dBc	≤ -20 dBc	Pass



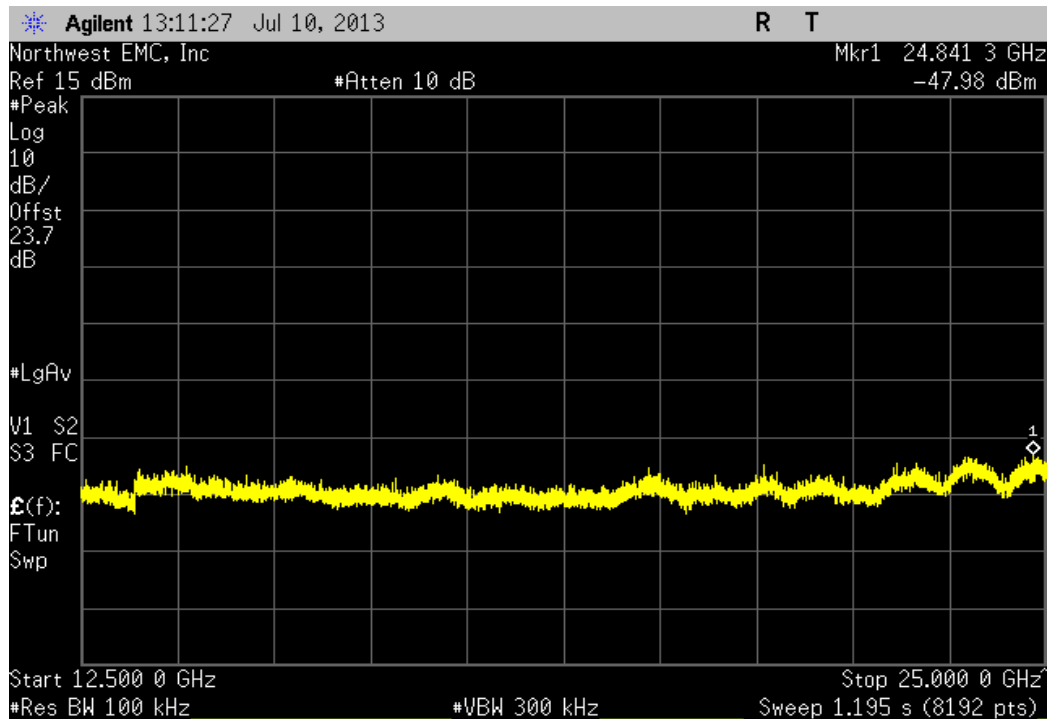
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



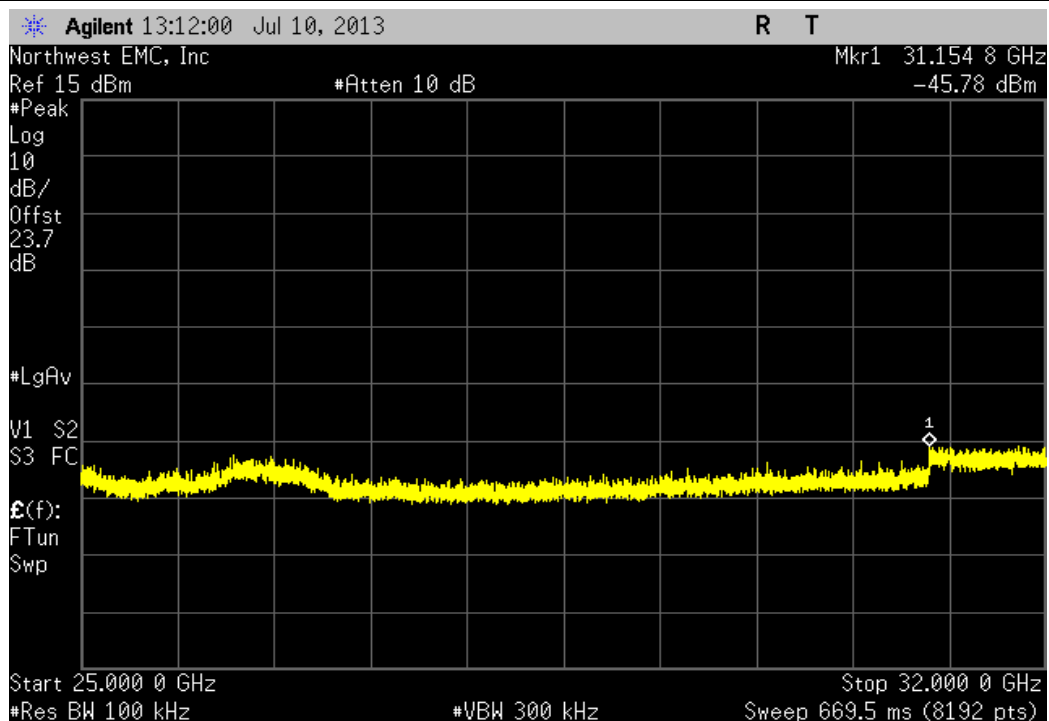
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.72 dBc	≤ -20 dBc	Pass



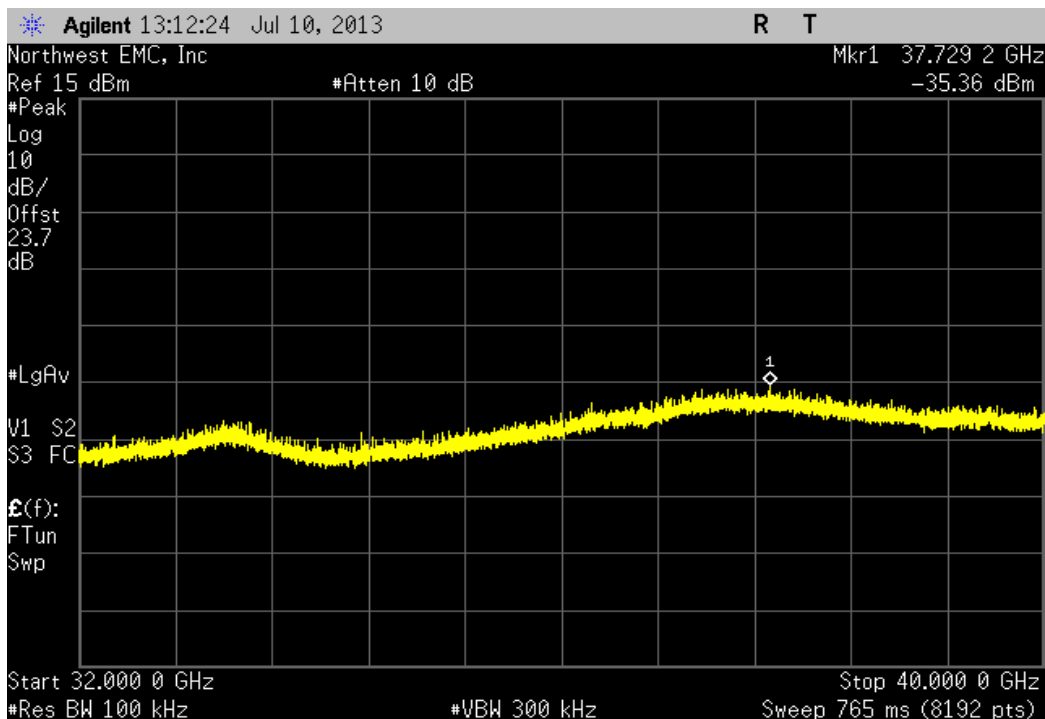
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.43 dBc	≤ -20 dBc	Pass	



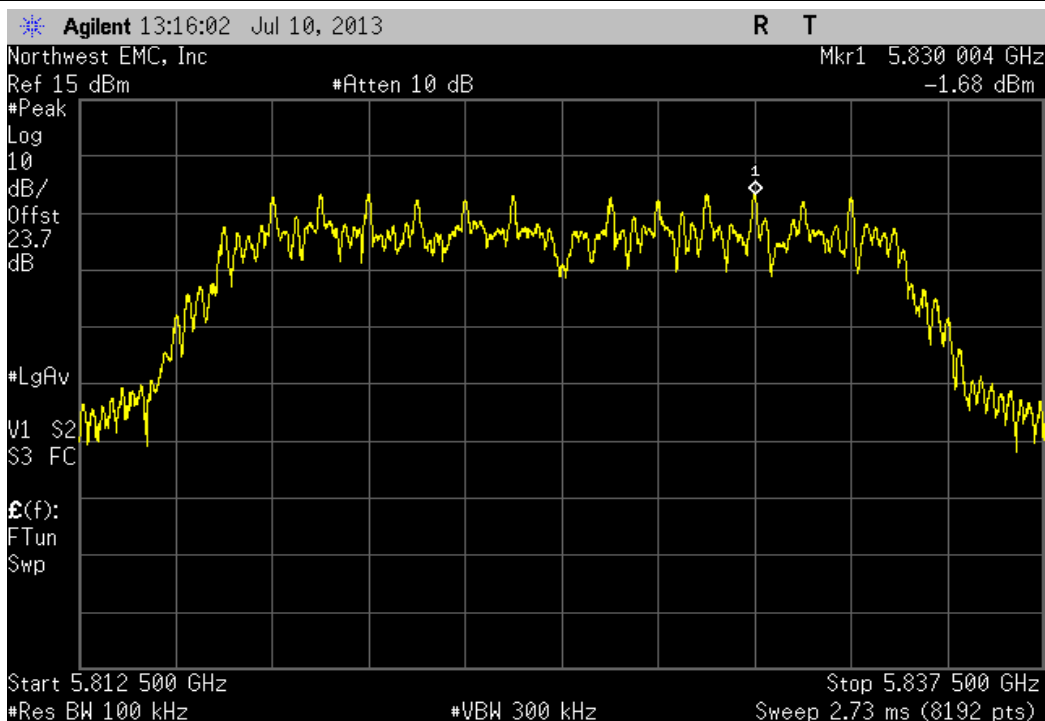
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-45.23 dBc	≤ -20 dBc	Pass	



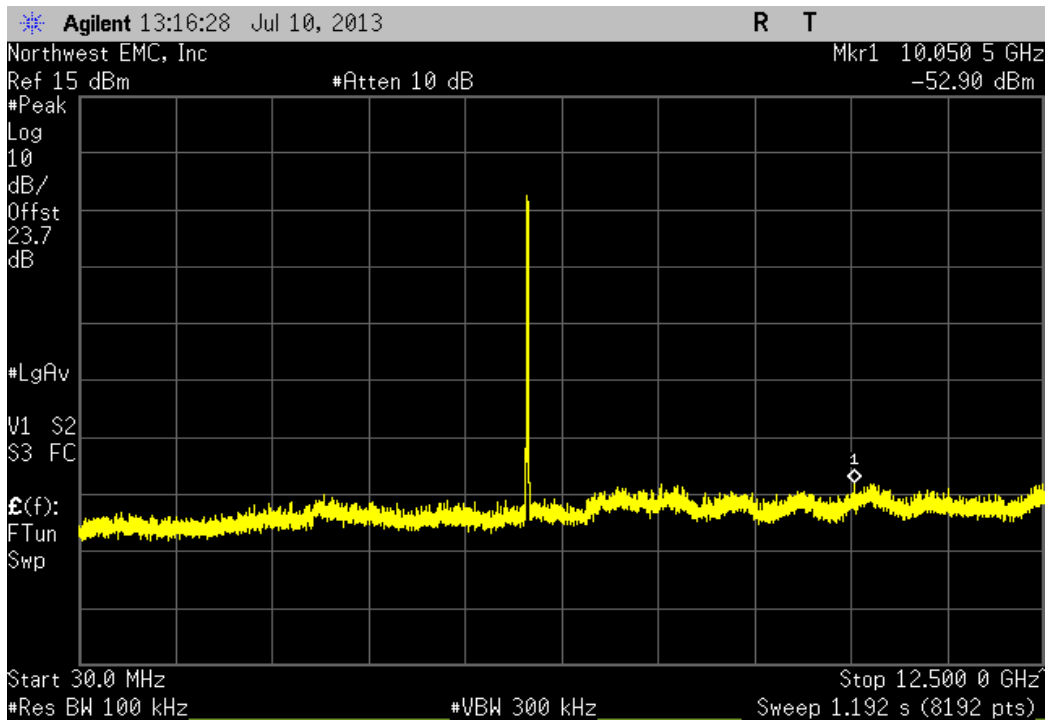
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Mid Channel 157, 5785 MHz						
Frequency Range			Value	Limit	Result	
32 GHz - 40 GHz			-34.81 dBc	≤ -20 dBc	Pass	



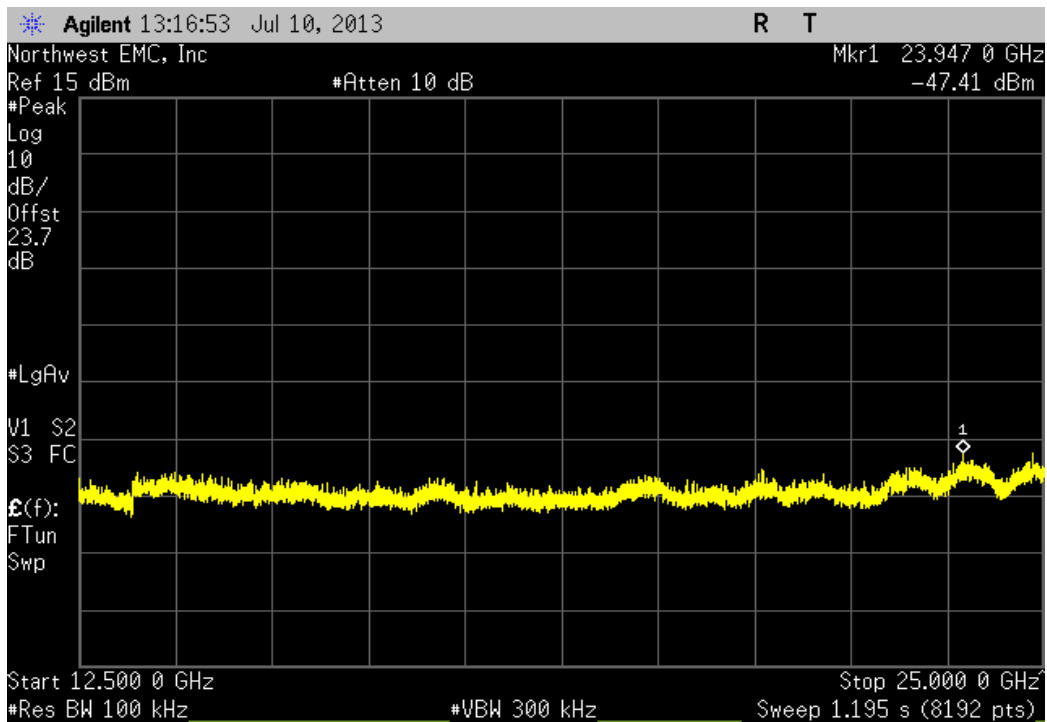
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz						
Frequency Range			Value	Limit	Result	
Fundamental			N/A	N/A	N/A	



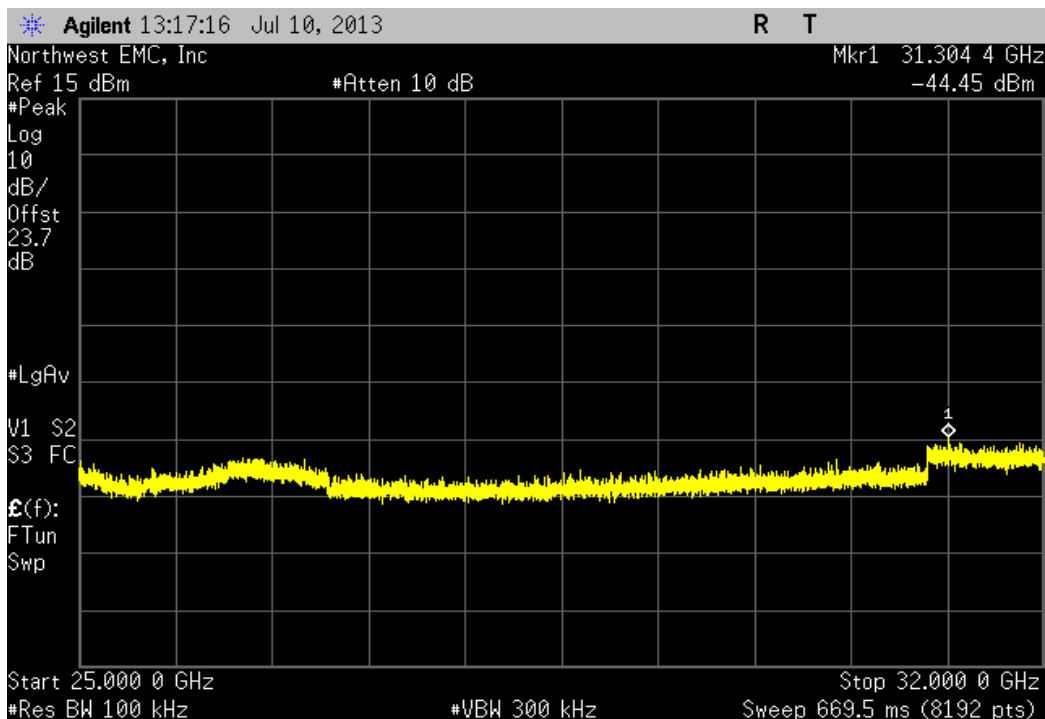
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.22 dBc	≤ -20 dBc	Pass	



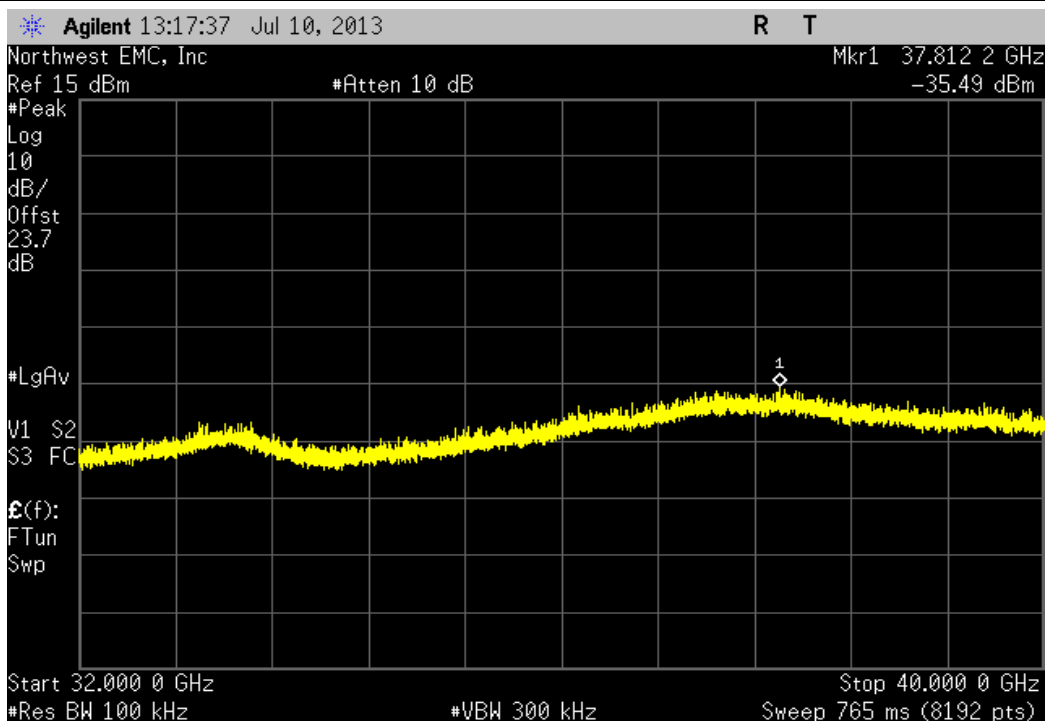
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.73 dBc	≤ -20 dBc	Pass	



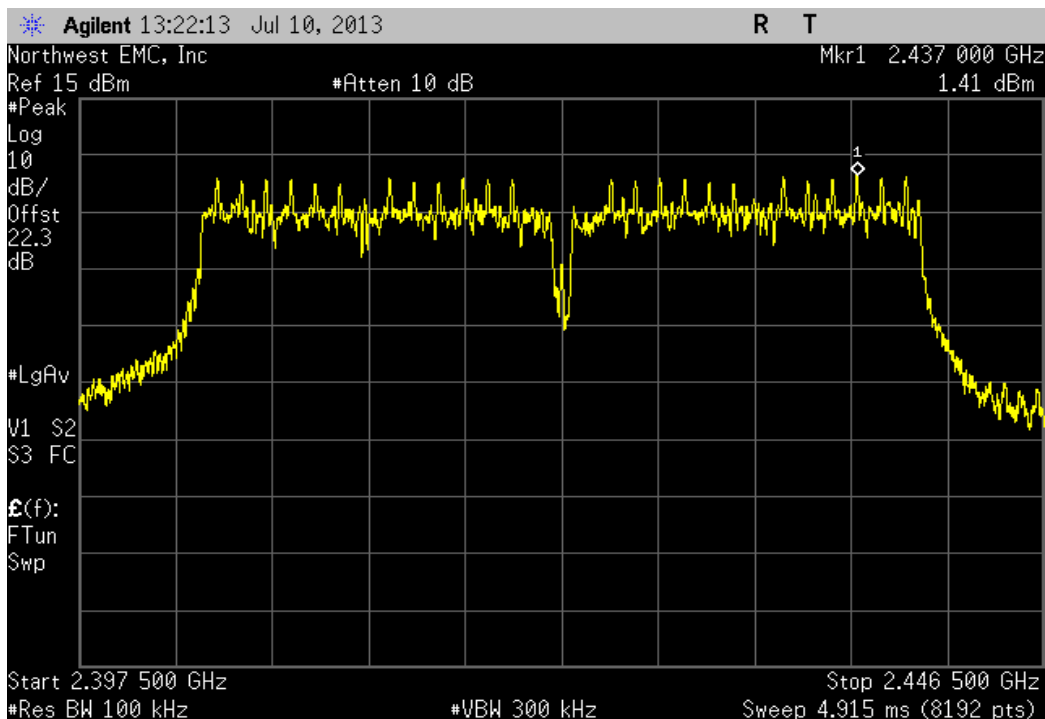
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-42.77 dBc	≤ -20 dBc	Pass



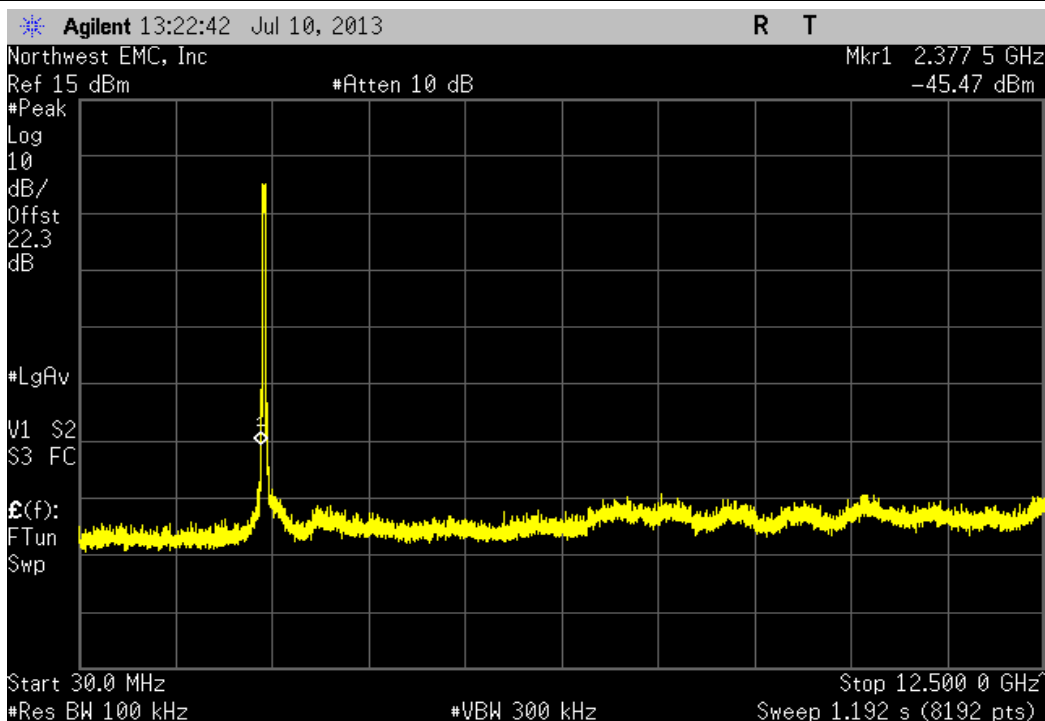
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.81 dBc	≤ -20 dBc	Pass



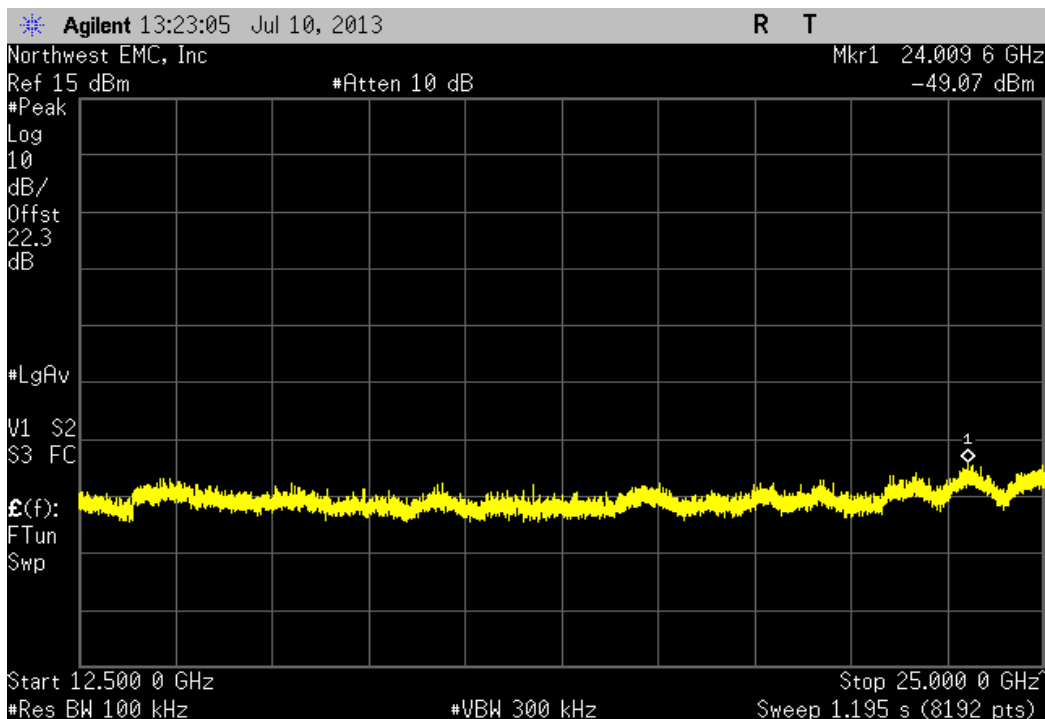
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



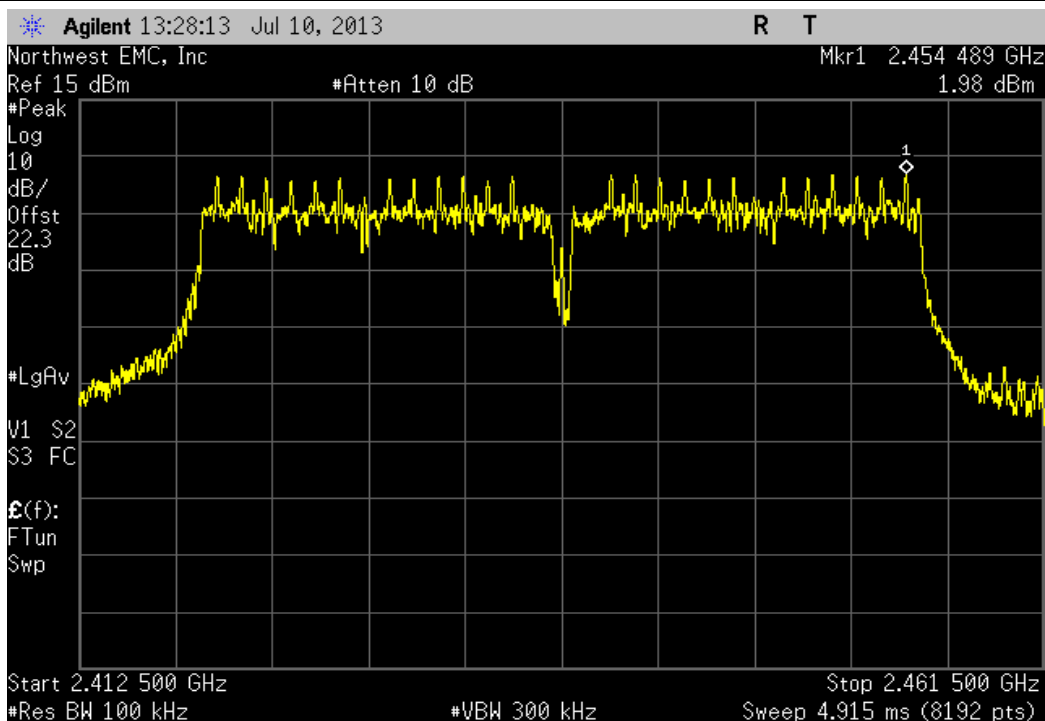
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-46.88 dBc	≤ -20 dBc	Pass		



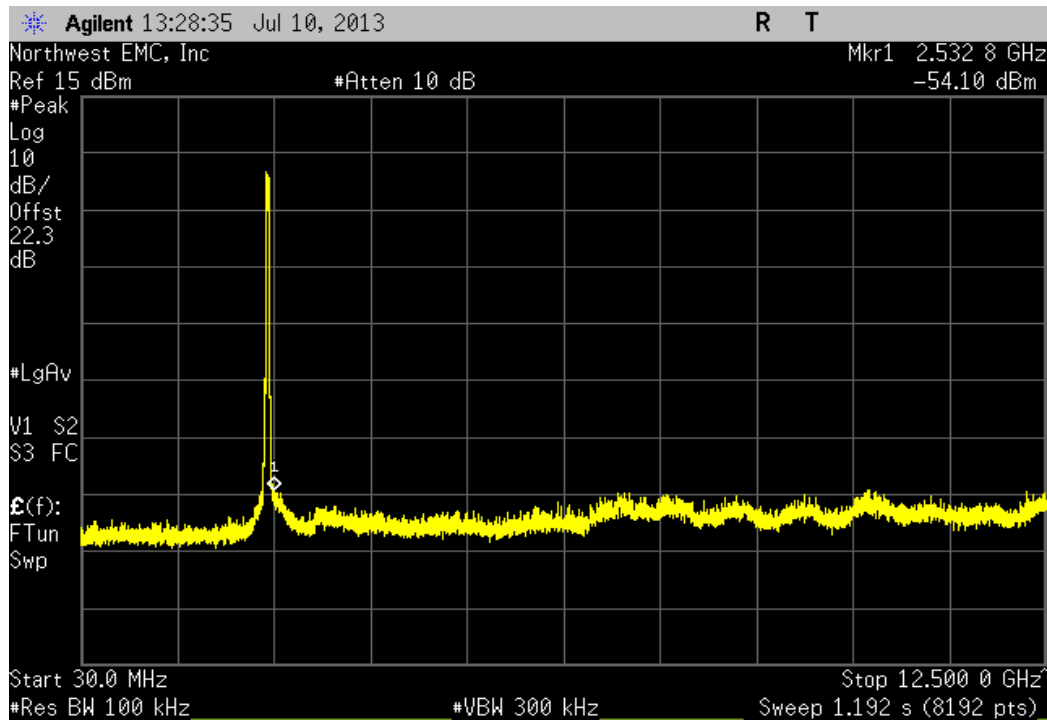
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz				
Frequency	Value	Limit	Result	
Range				
12.5 GHz - 25 GHz	-50.48 dBc	≤ -20 dBc	Pass	



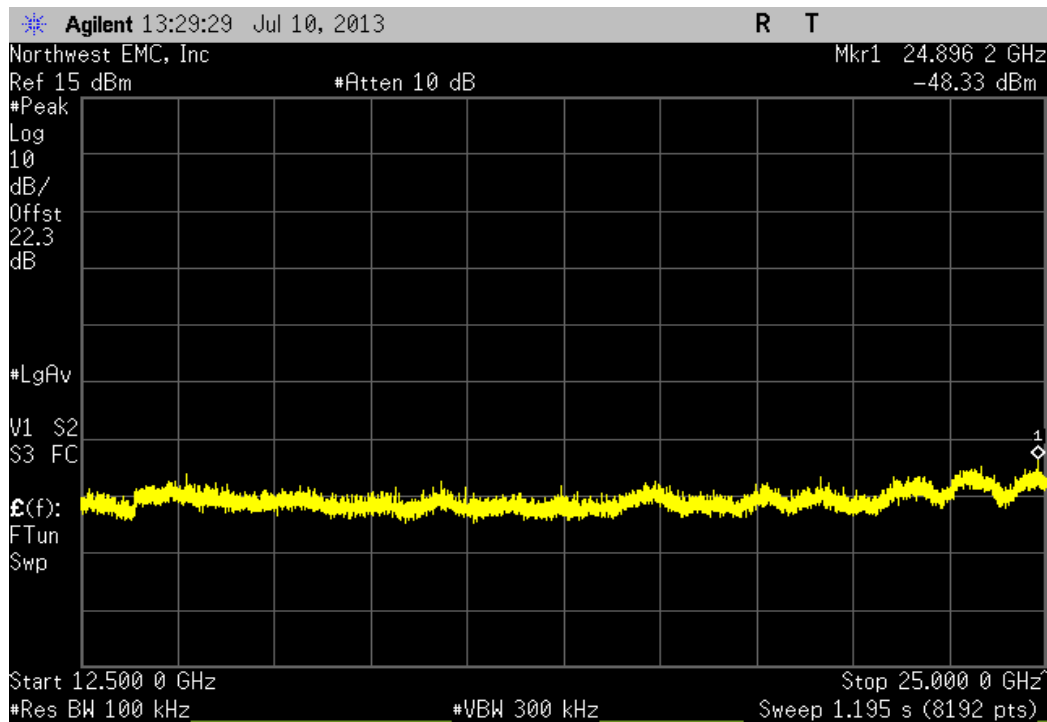
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency	Value	Limit	Result	
Range				
Fundamental	N/A	N/A	N/A	



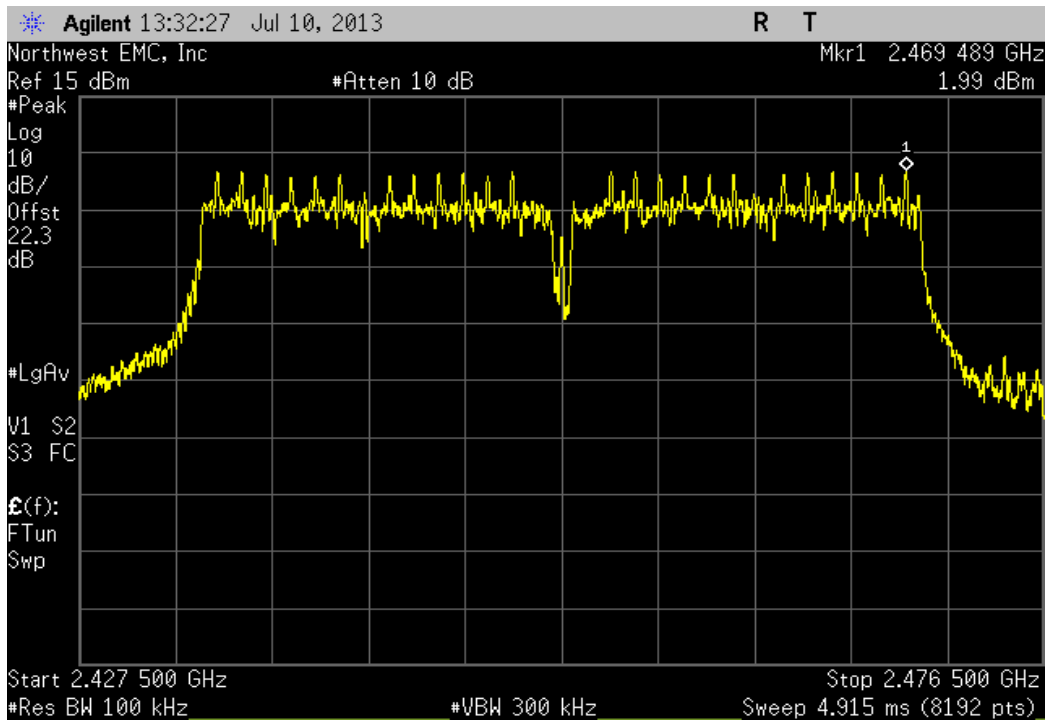
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-56.08 dBc	≤ -20 dBc	Pass	



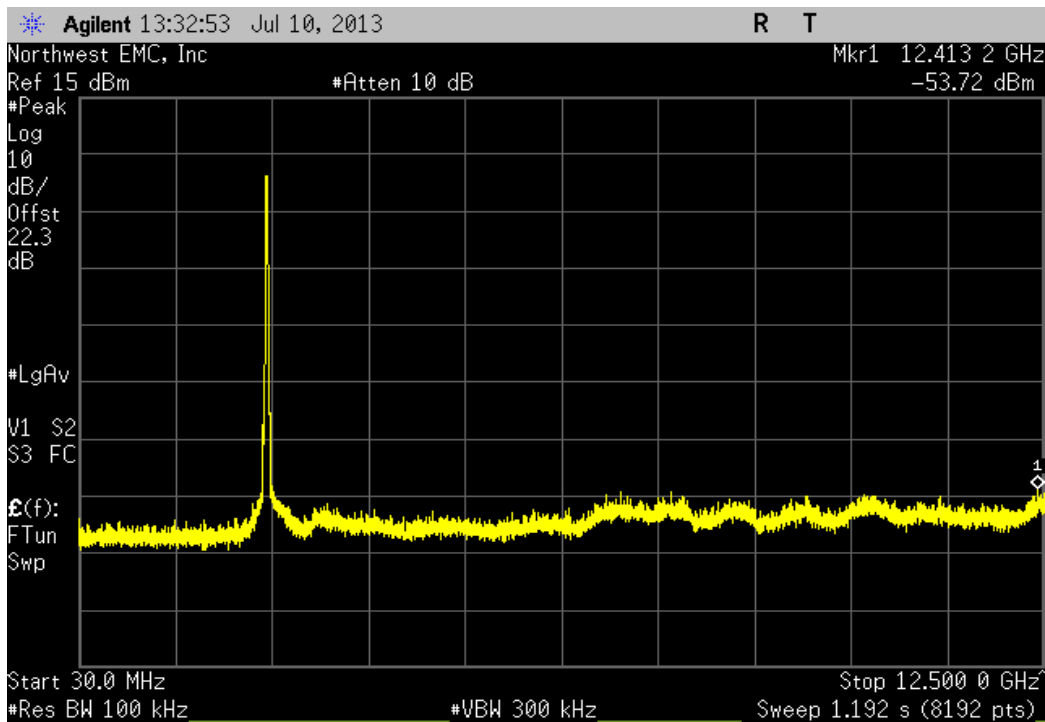
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-50.31 dBc	≤ -20 dBc	Pass	



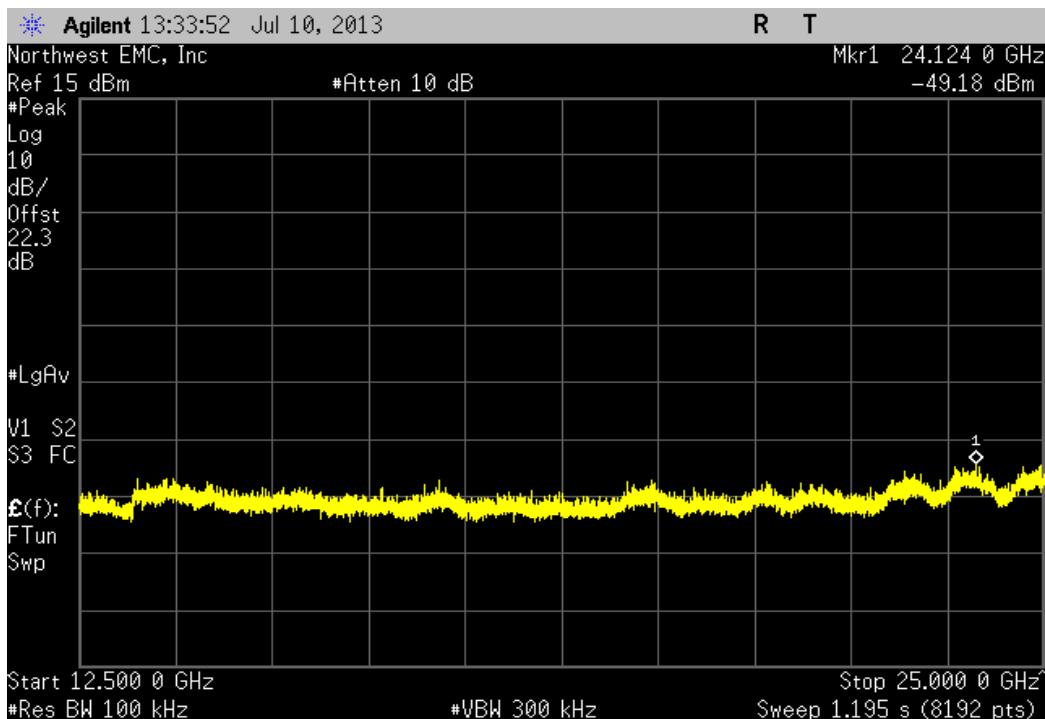
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



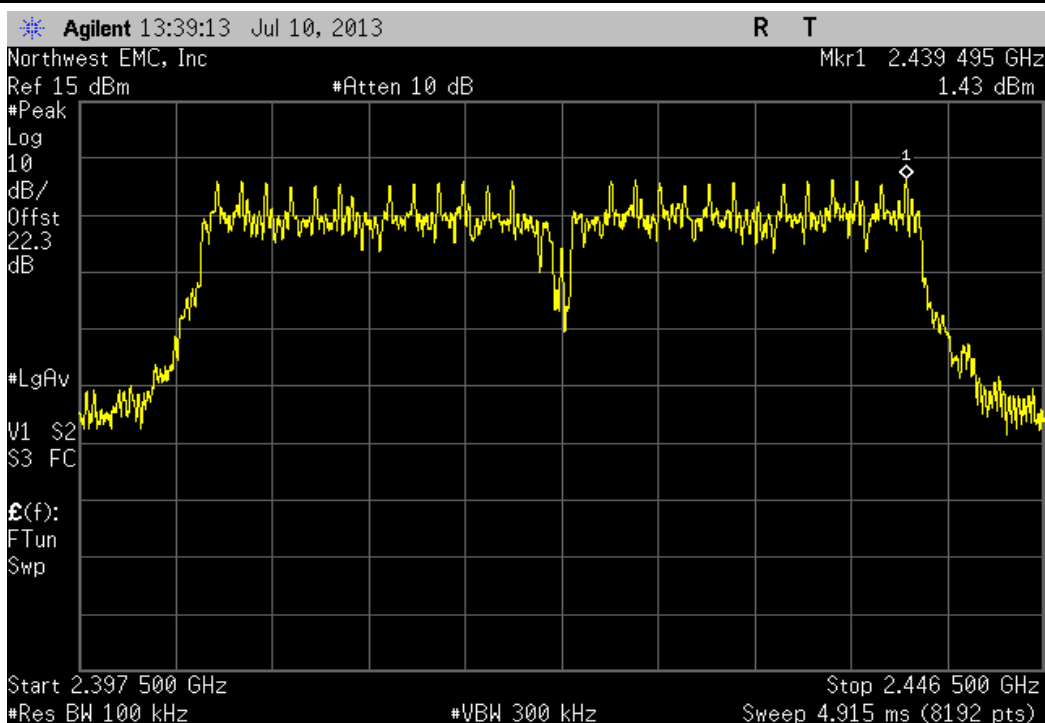
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-55.71 dBc	≤ -20 dBc	Pass		



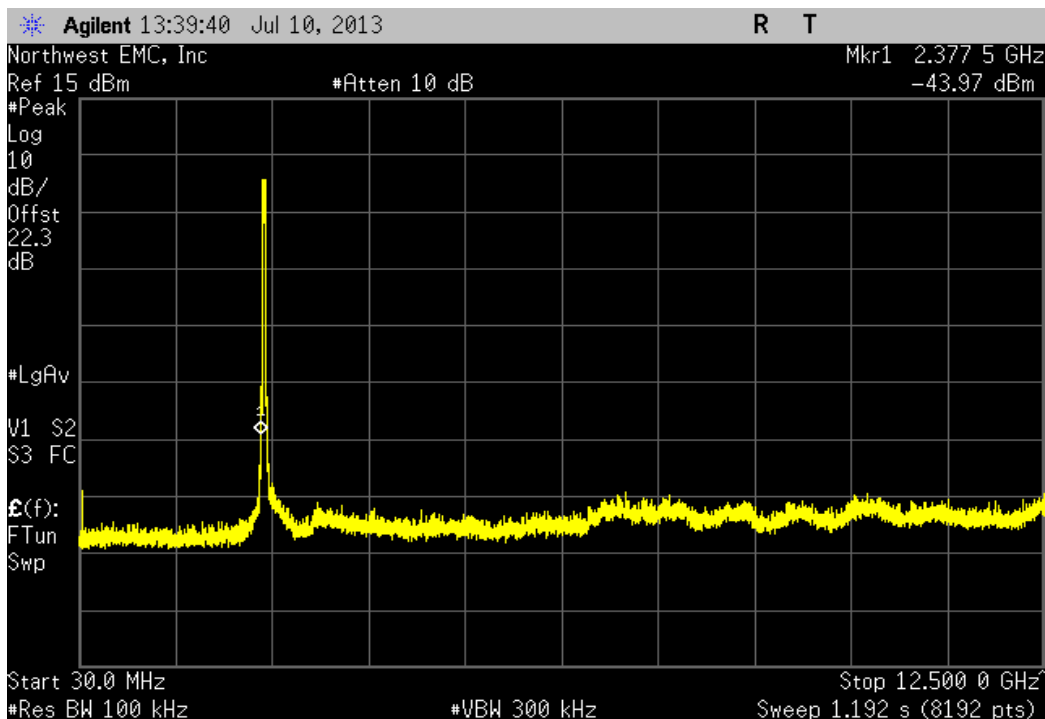
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-51.17 dBc	≤ -20 dBc	Pass	



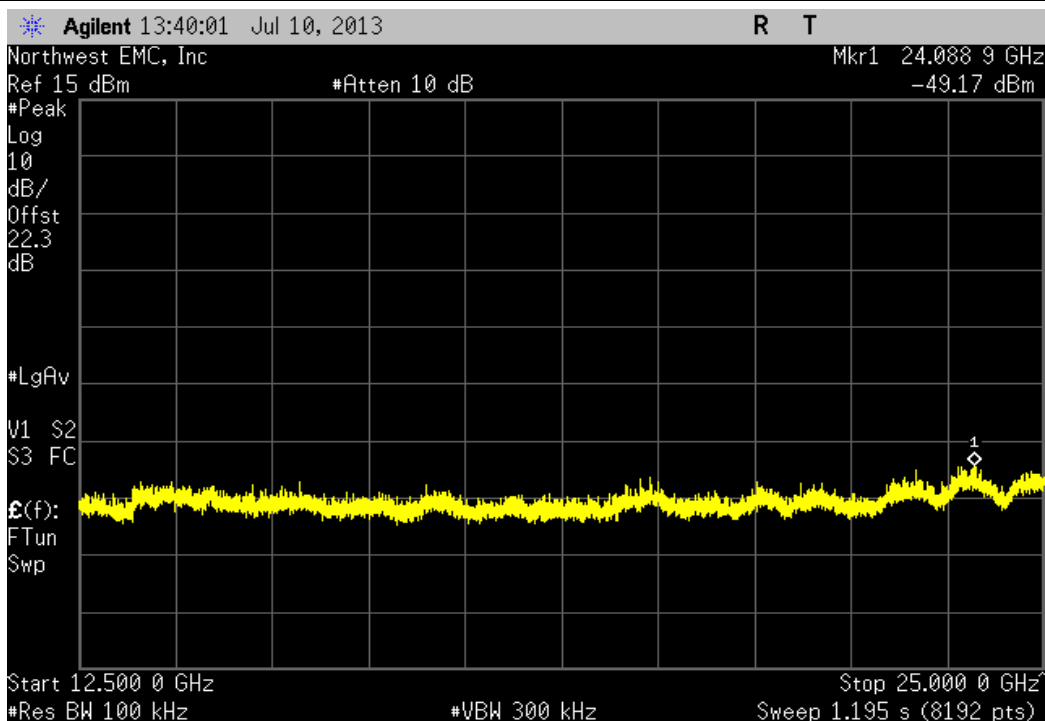
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



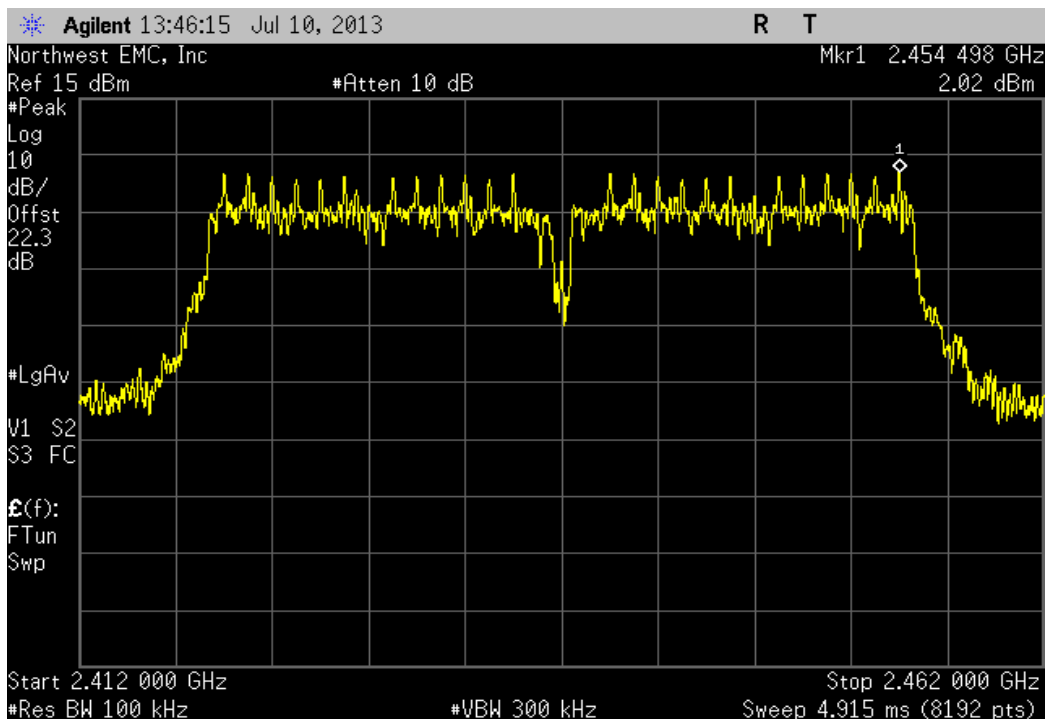
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-45.4 dBc	≤ -20 dBc	Pass	



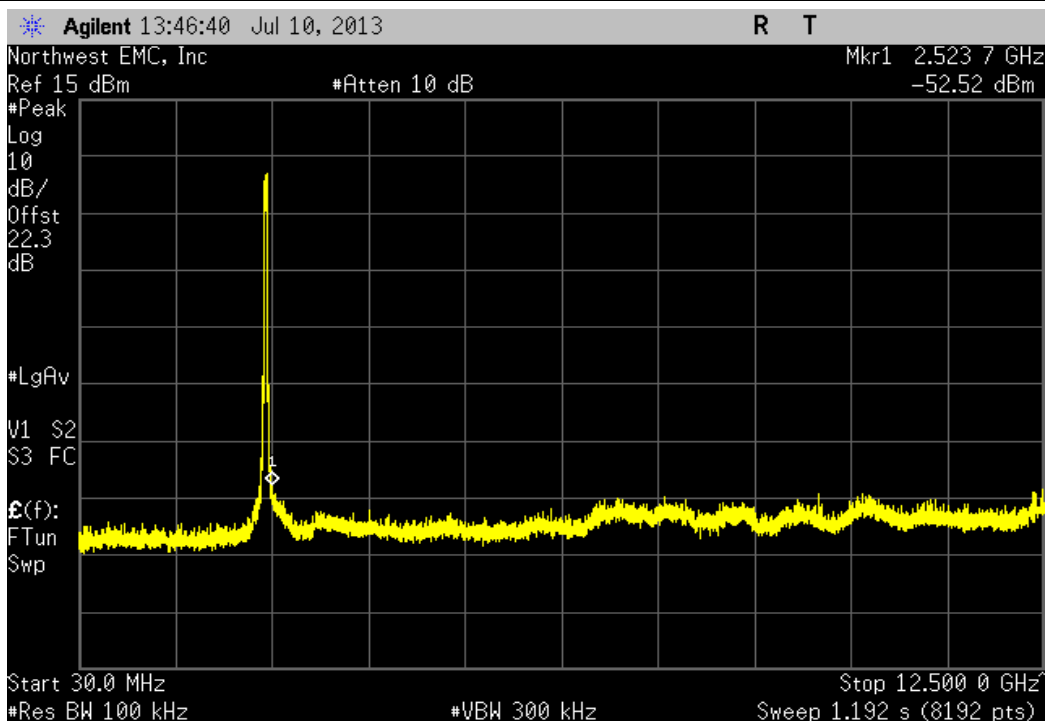
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-50.6 dBc	≤ -20 dBc	Pass	



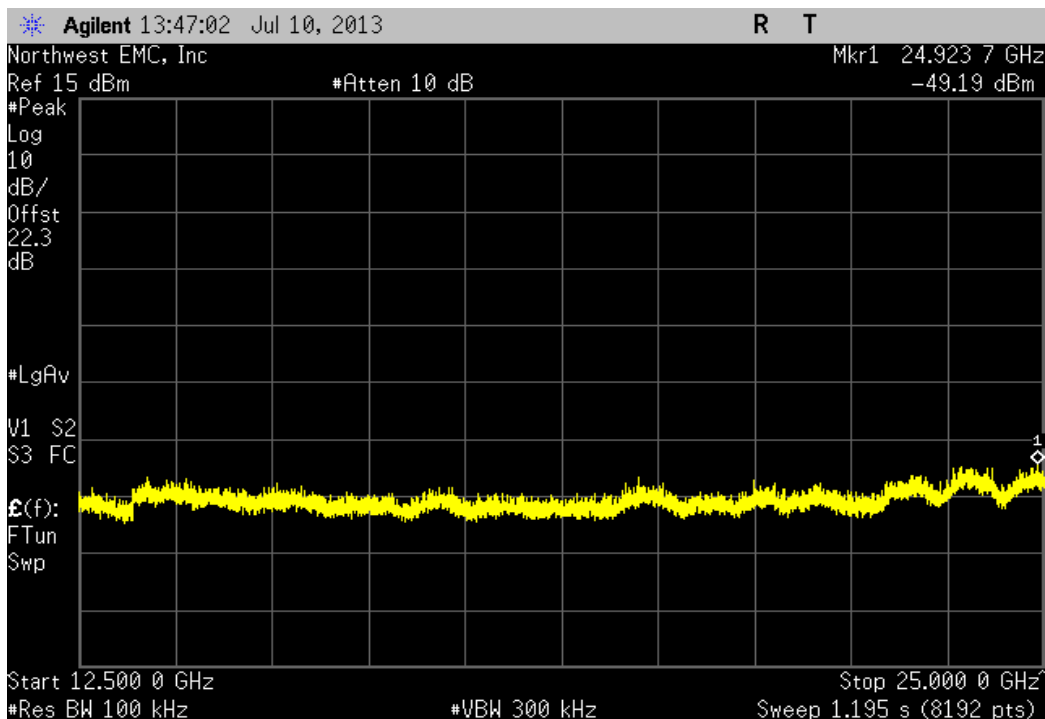
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range		Value	Limit	Result		
Fundamental		N/A	N/A	N/A		



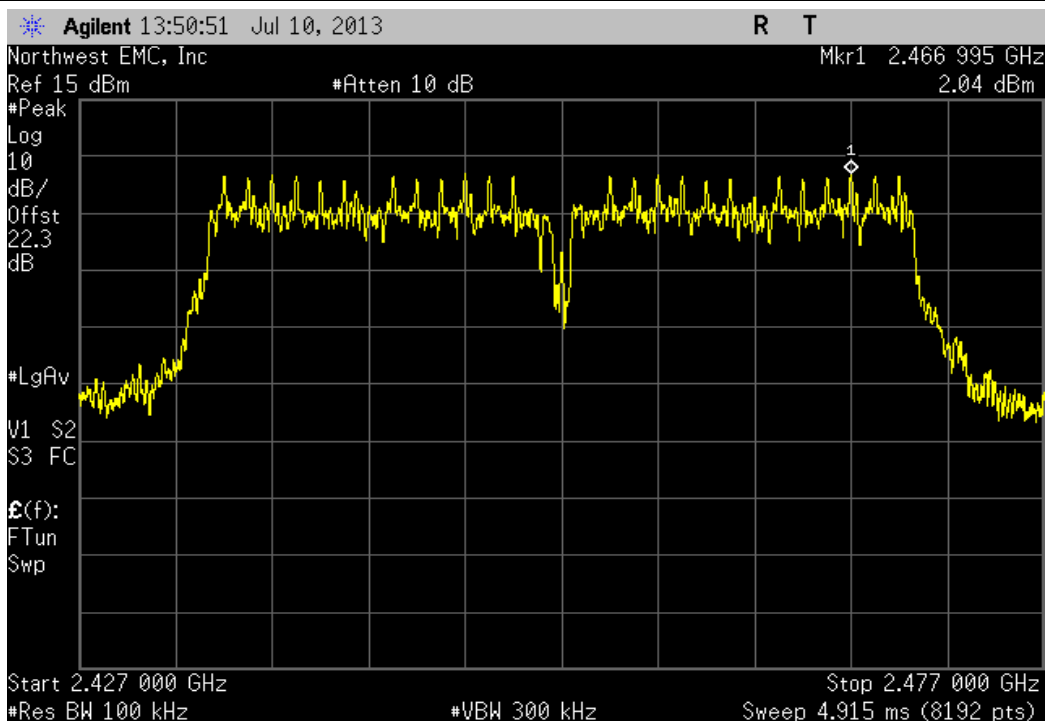
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz						
Frequency Range		Value	Limit	Result		
30 MHz - 12.5 GHz		-54.54 dBc	≤ -20 dBc	Pass		



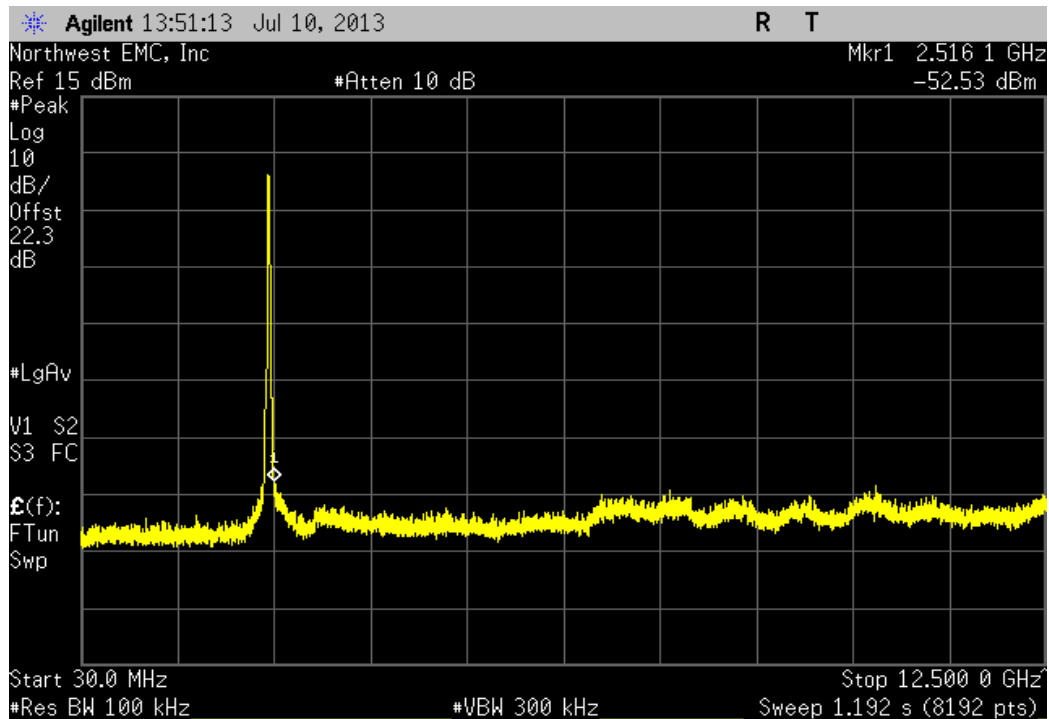
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-51.21 dBc	≤ -20 dBc	Pass	



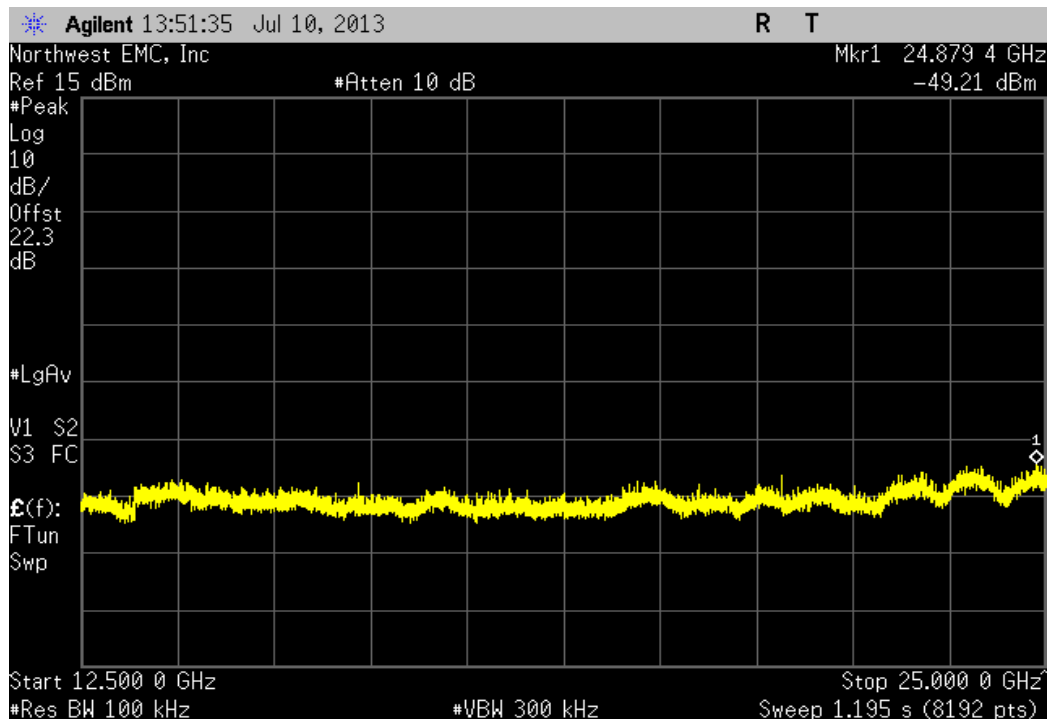
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



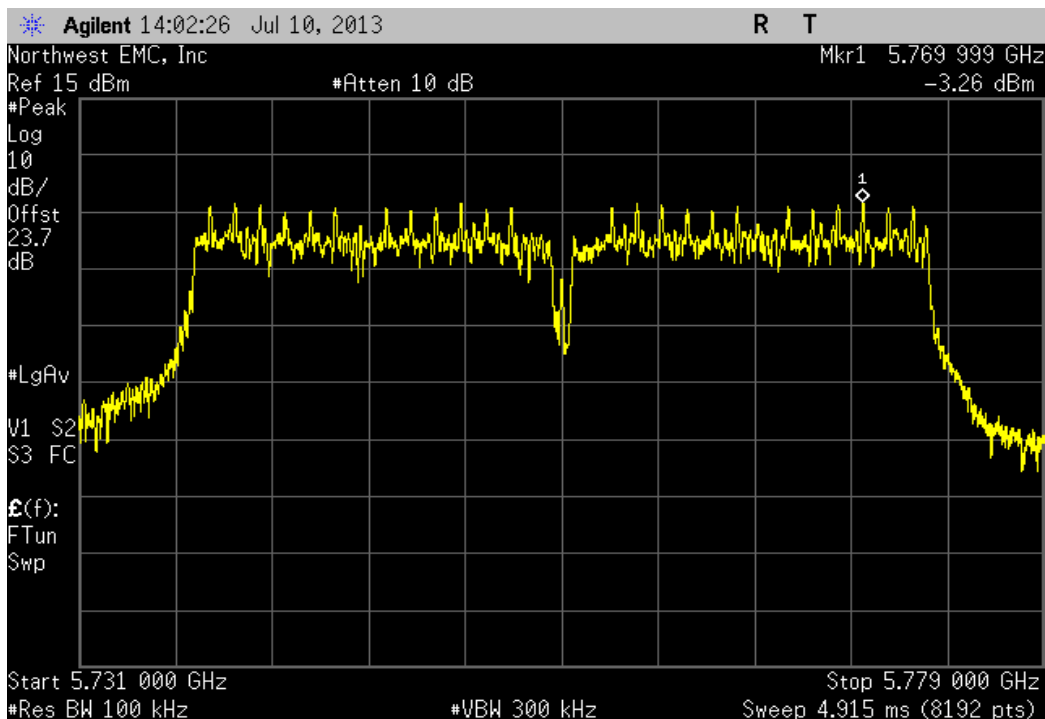
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-54.57 dBc	≤ -20 dBc	Pass	



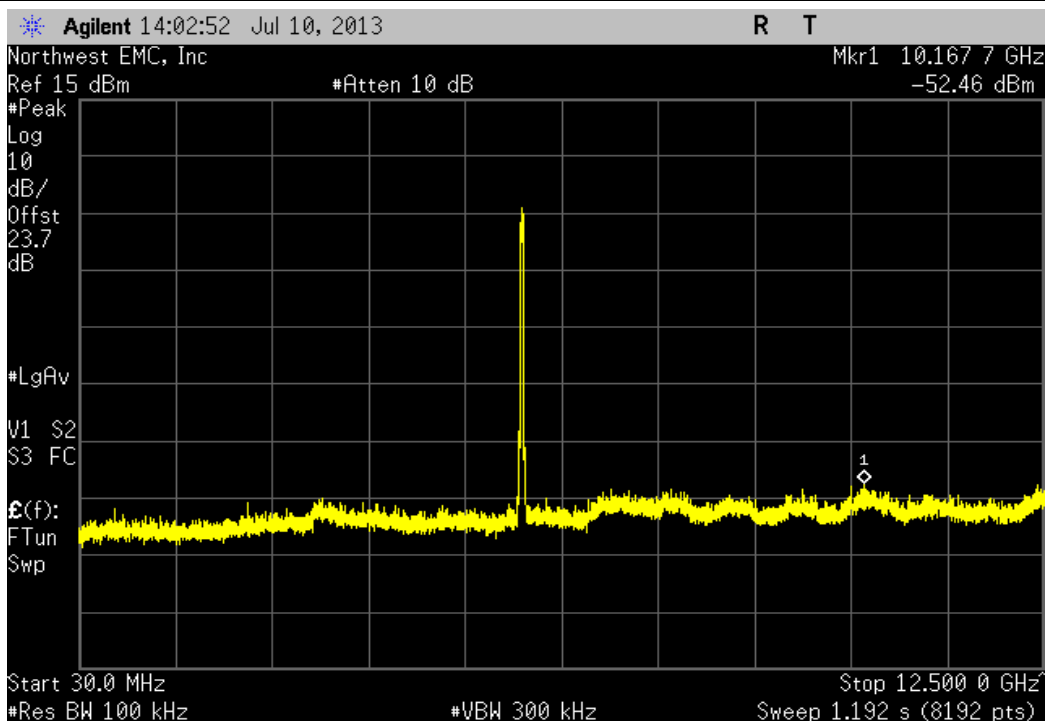
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-51.25 dBc	≤ -20 dBc	Pass	



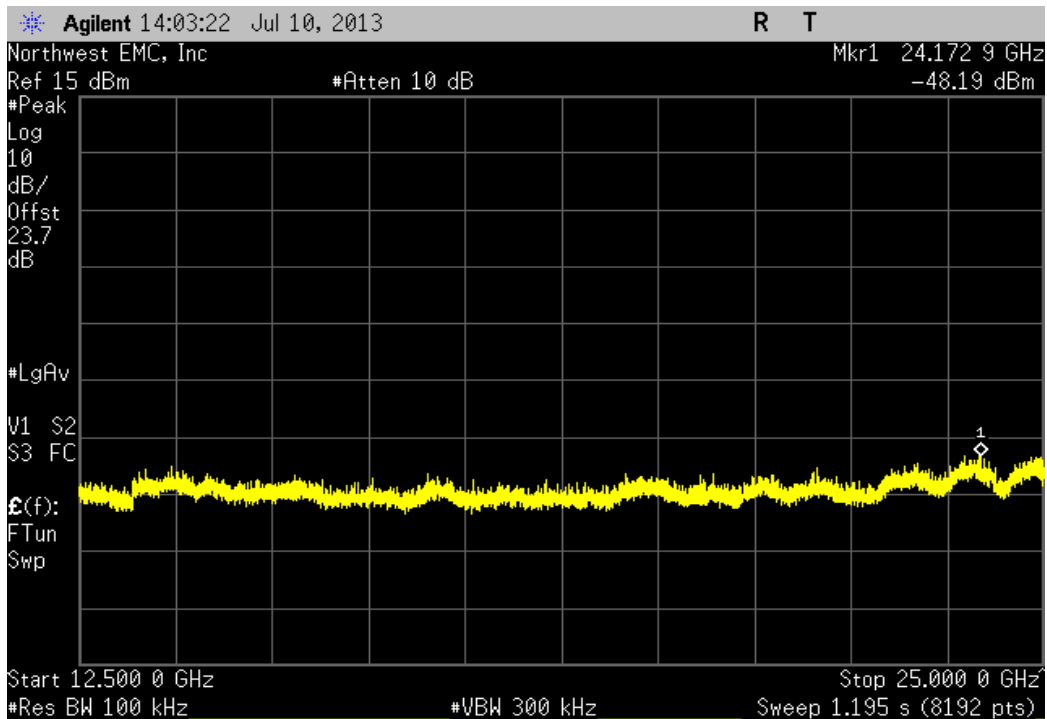
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



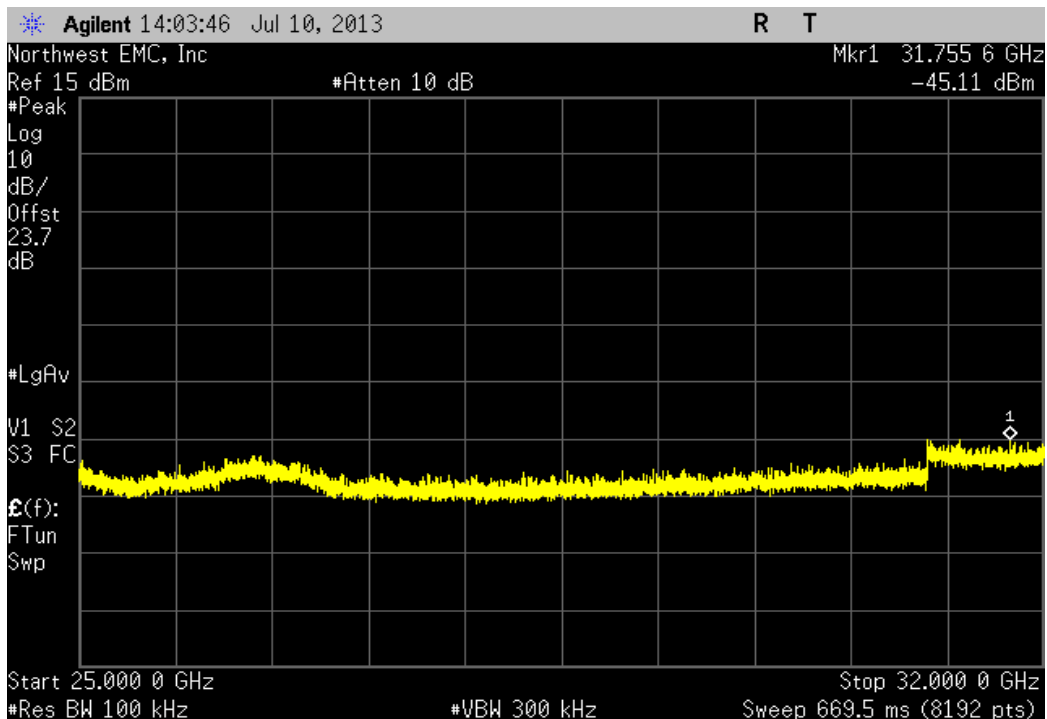
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-49.2 dBc	≤ -20 dBc	Pass



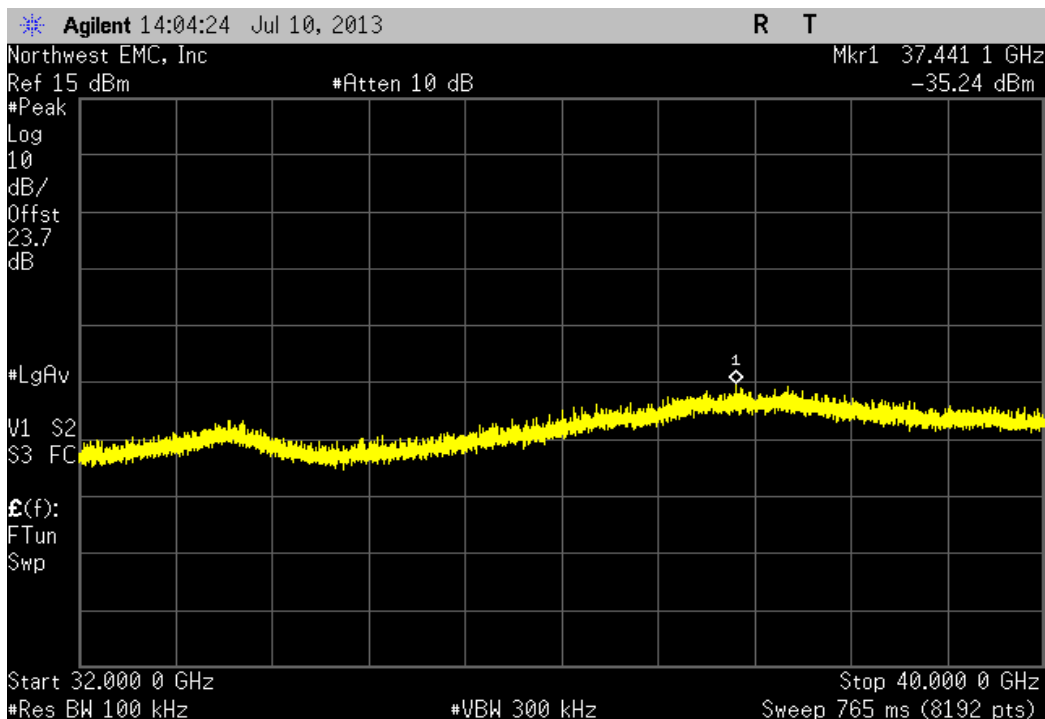
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-44.93 dBc	≤ -20 dBc	Pass	



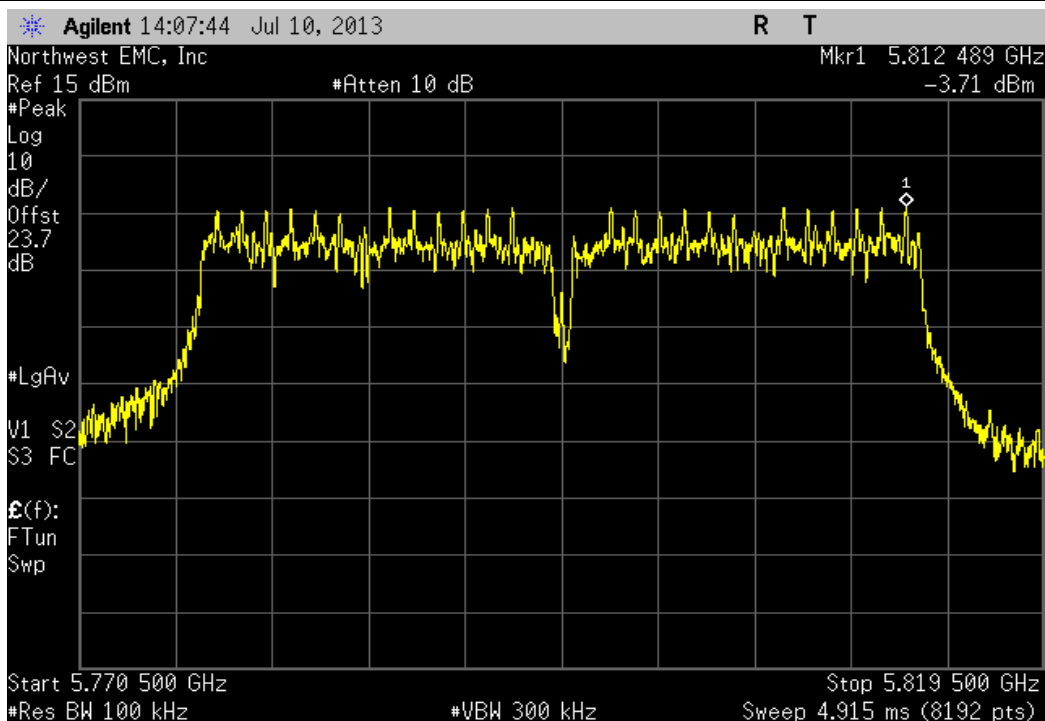
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-41.85 dBc	≤ -20 dBc	Pass	



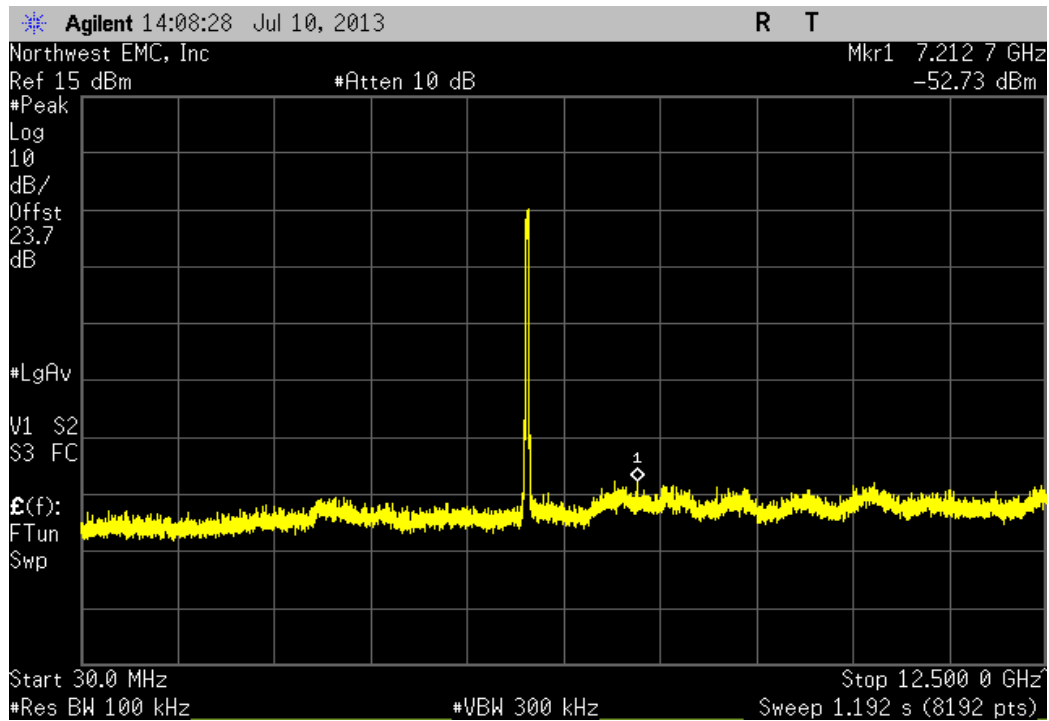
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz						
Frequency Range			Value	Limit	Result	
32 GHz - 40 GHz			-31.98 dBc	≤ -20 dBc	Pass	



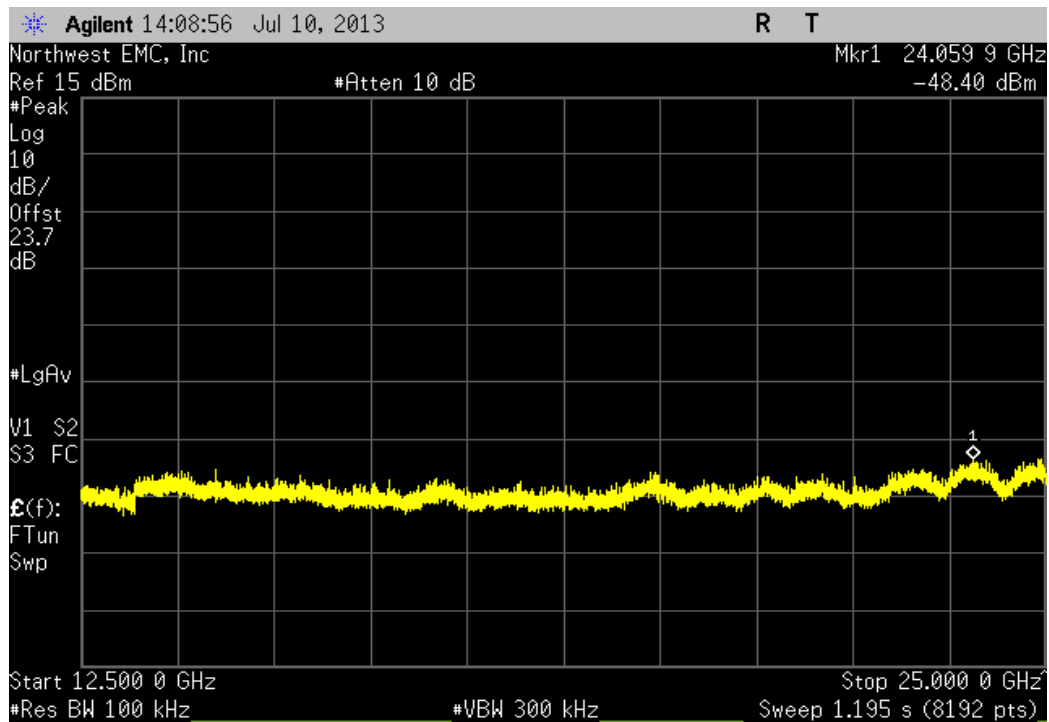
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz						
Frequency Range			Value	Limit	Result	
Fundamental			N/A	N/A	N/A	



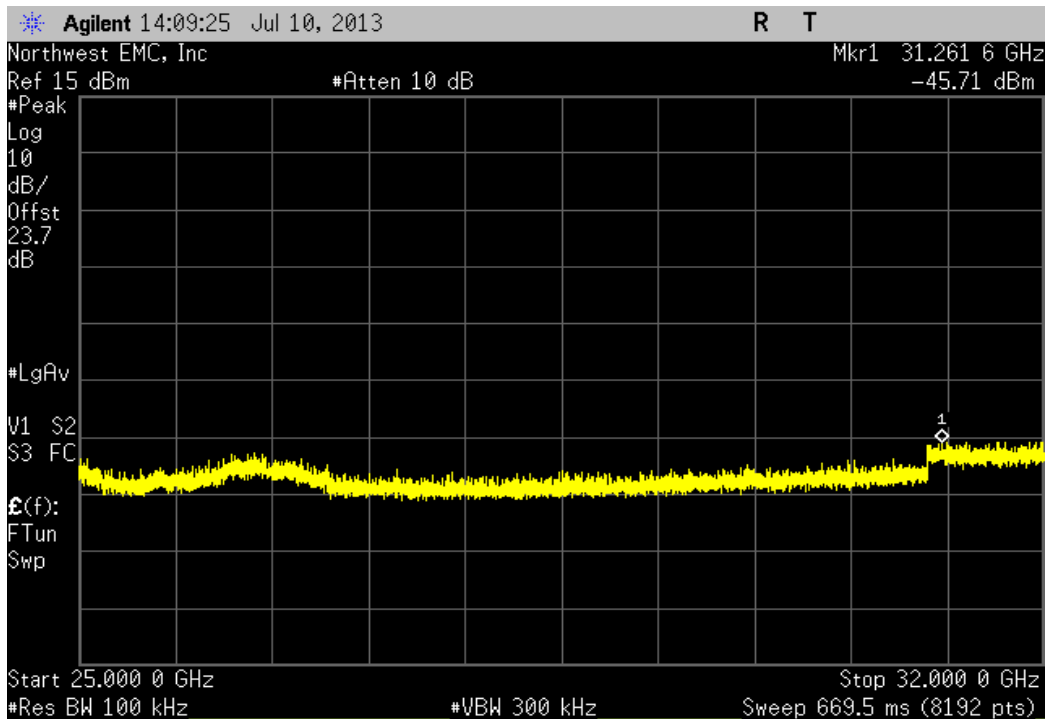
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.02 dBc	≤ -20 dBc	Pass	



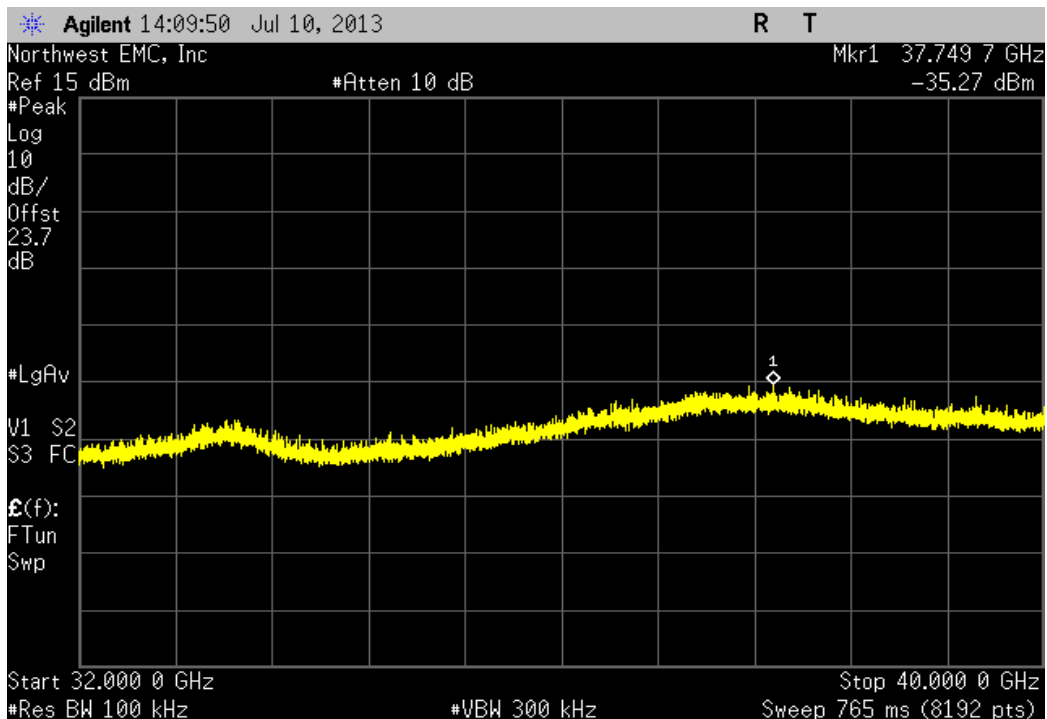
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-44.69 dBc	≤ -20 dBc	Pass	



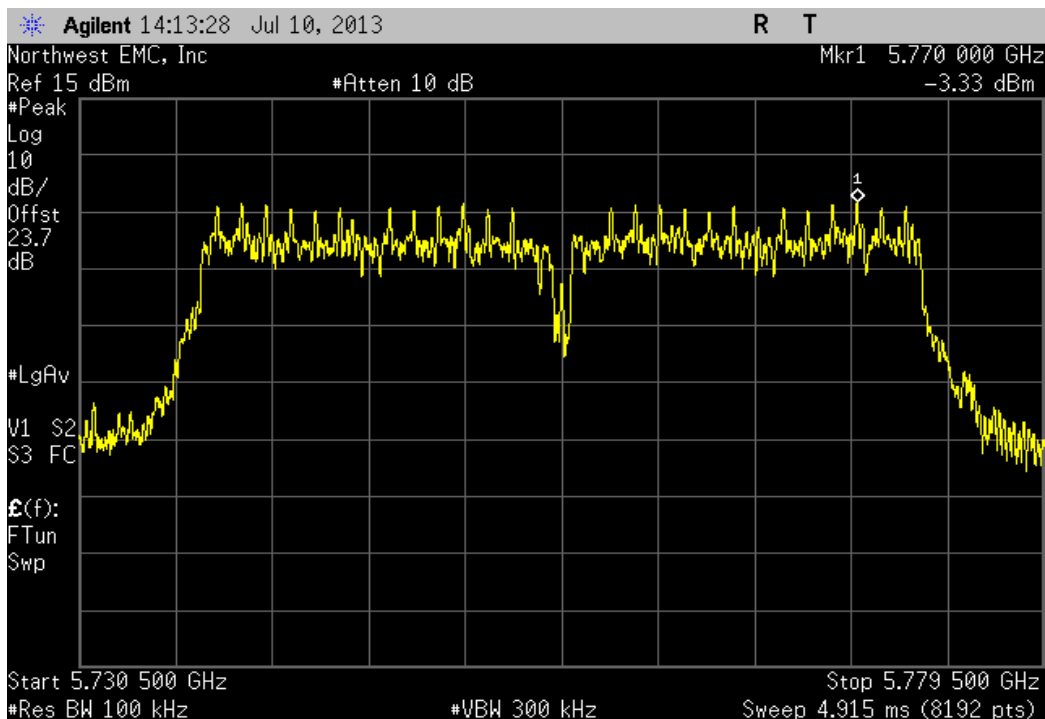
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz					
Frequency Range		Value	Limit	Result	
25 GHz - 32 GHz		-42 dBc	≤ -20 dBc	Pass	



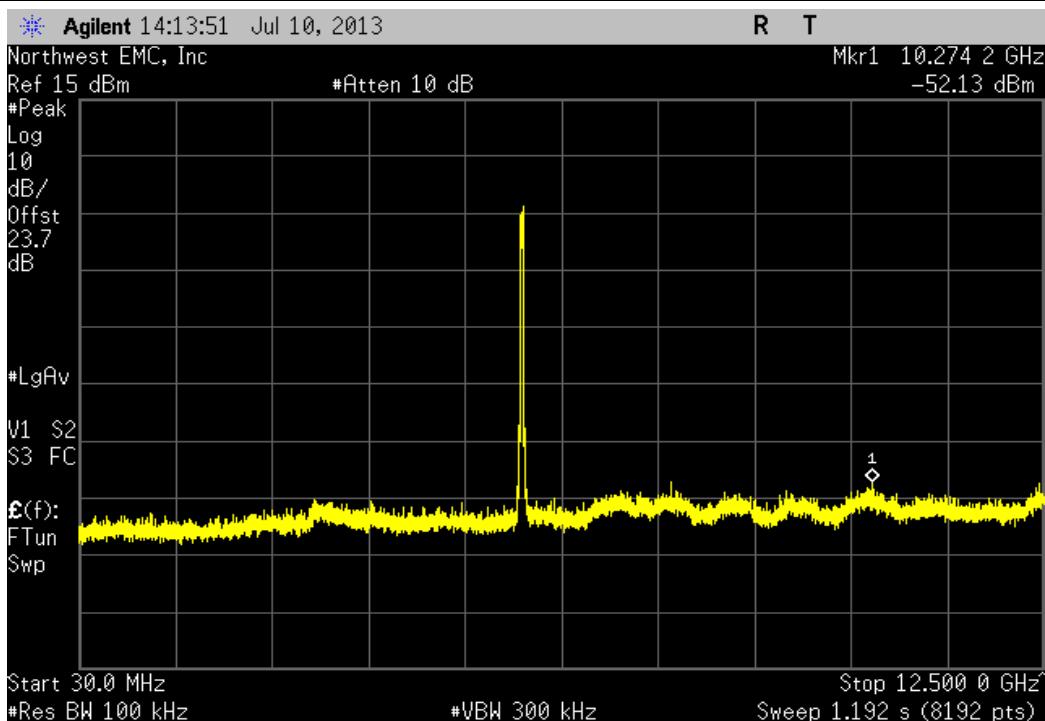
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz					
Frequency Range		Value	Limit	Result	
32 GHz - 40 GHz		-31.56 dBc	≤ -20 dBc	Pass	



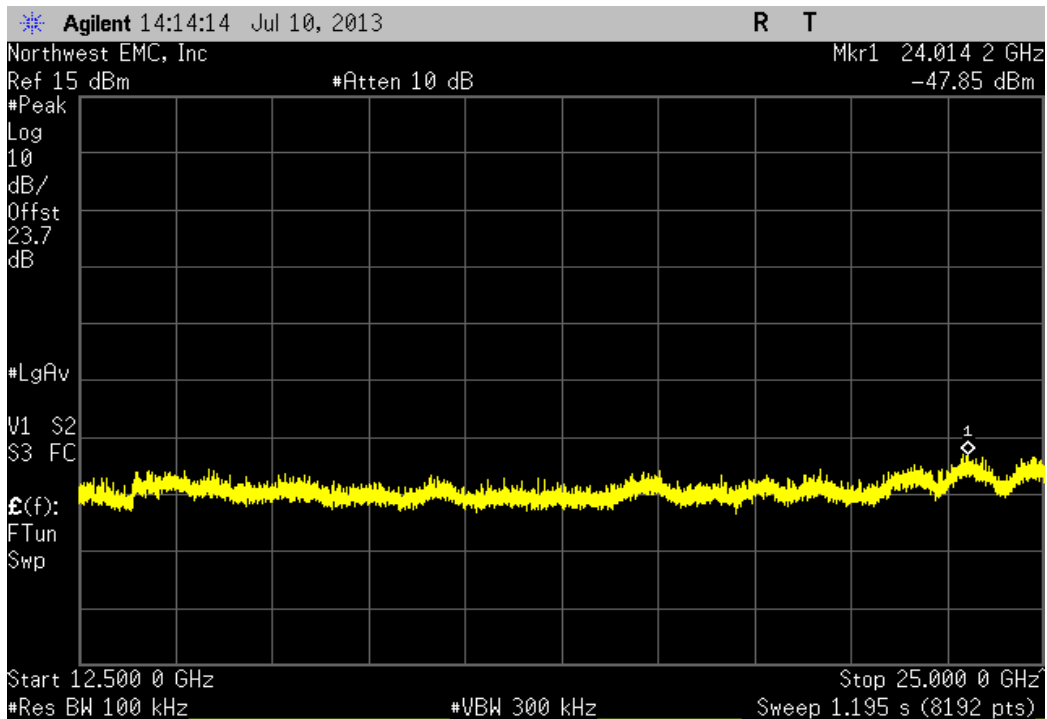
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



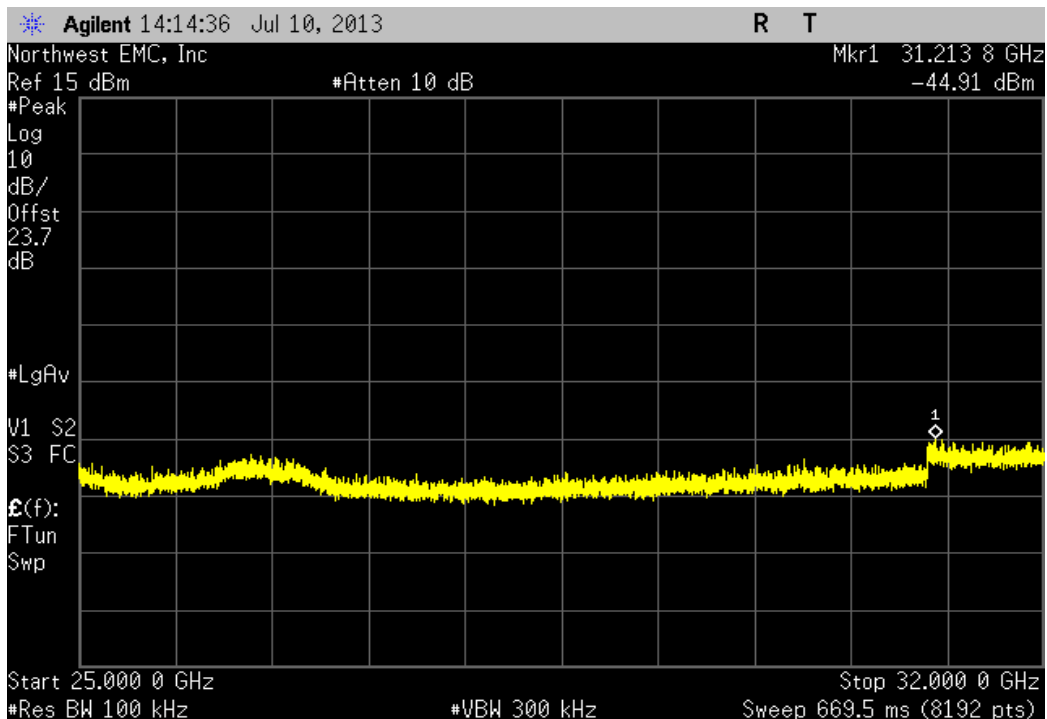
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.81 dBc	≤ -20 dBc	Pass



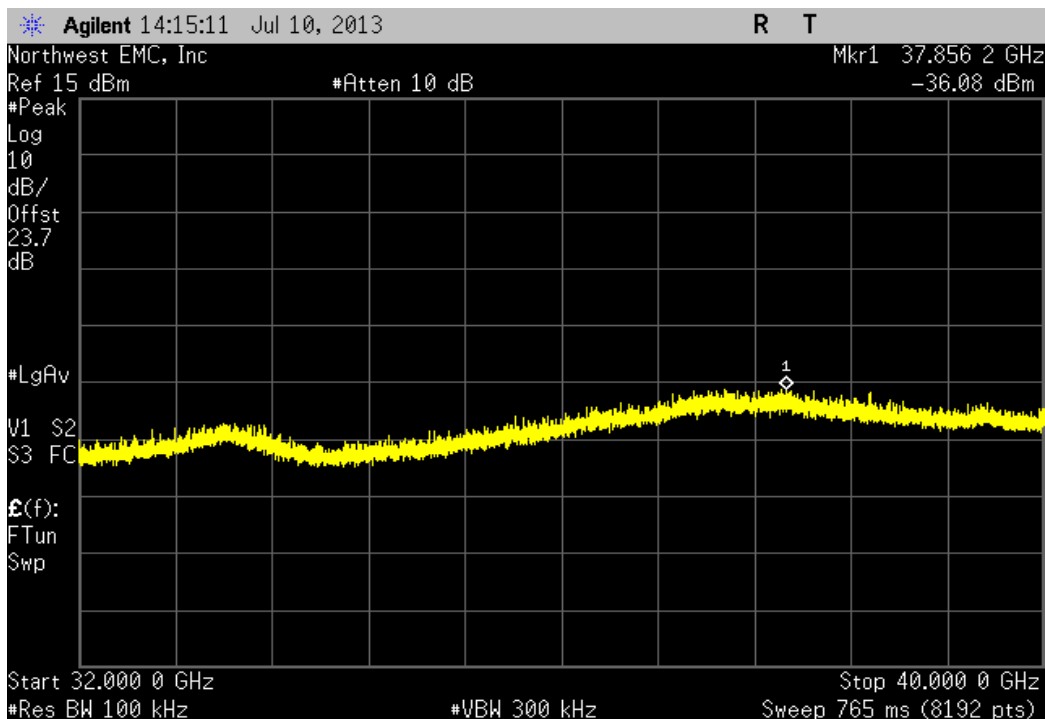
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-44.52 dBc	≤ -20 dBc	Pass	



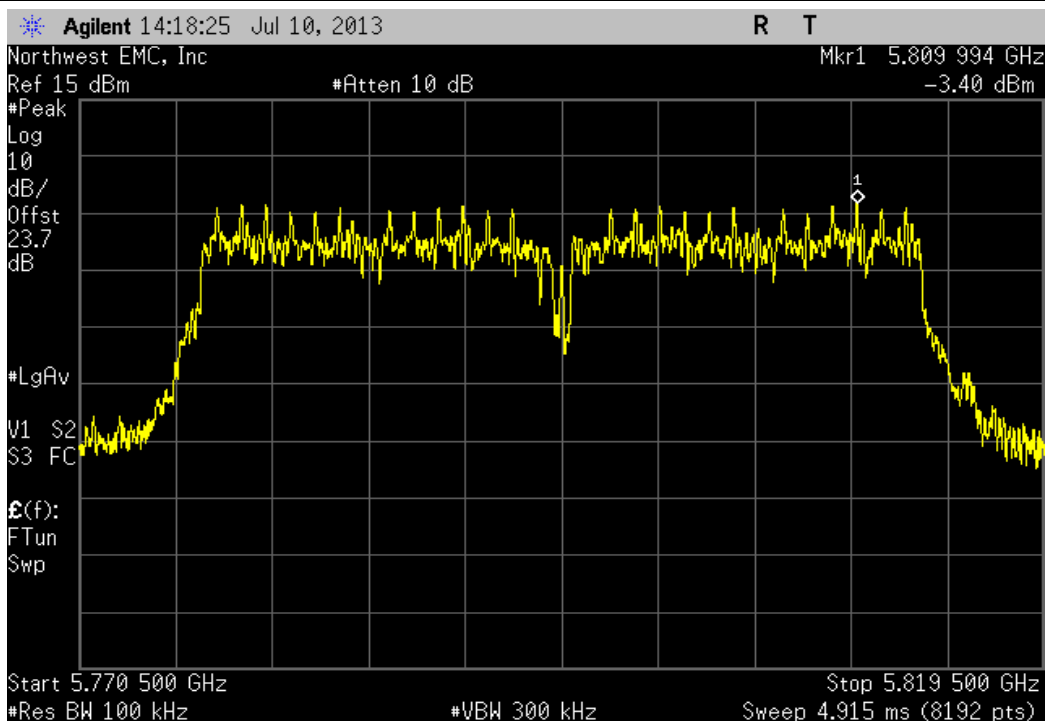
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-41.58 dBc	≤ -20 dBc	Pass	



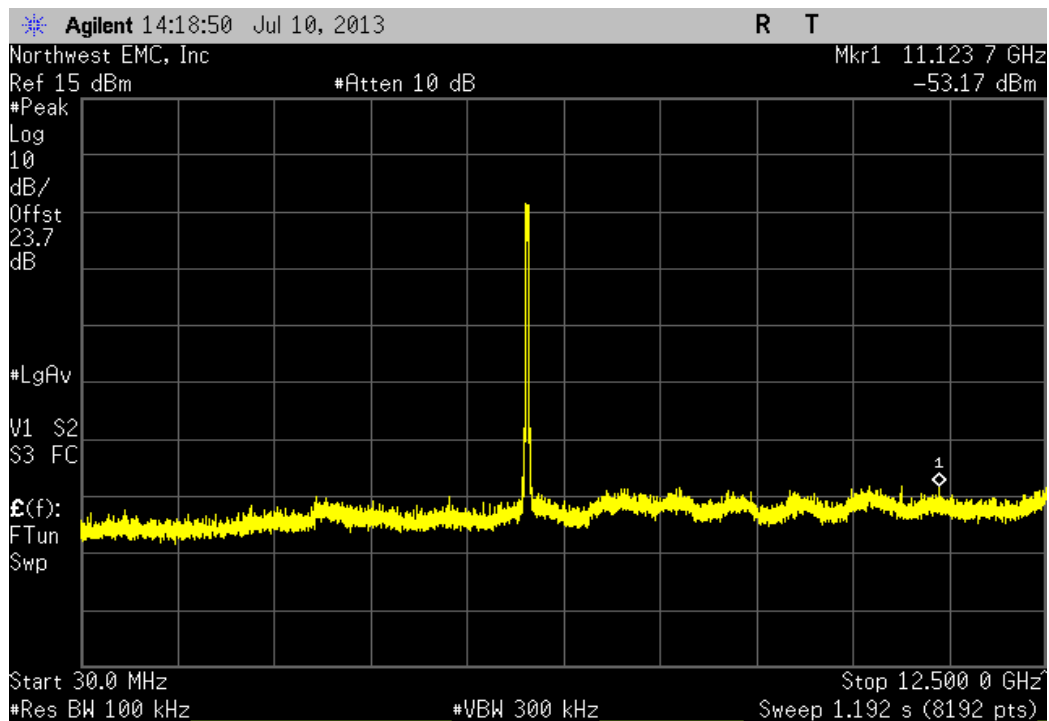
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-32.75 dBc	≤ -20 dBc	Pass



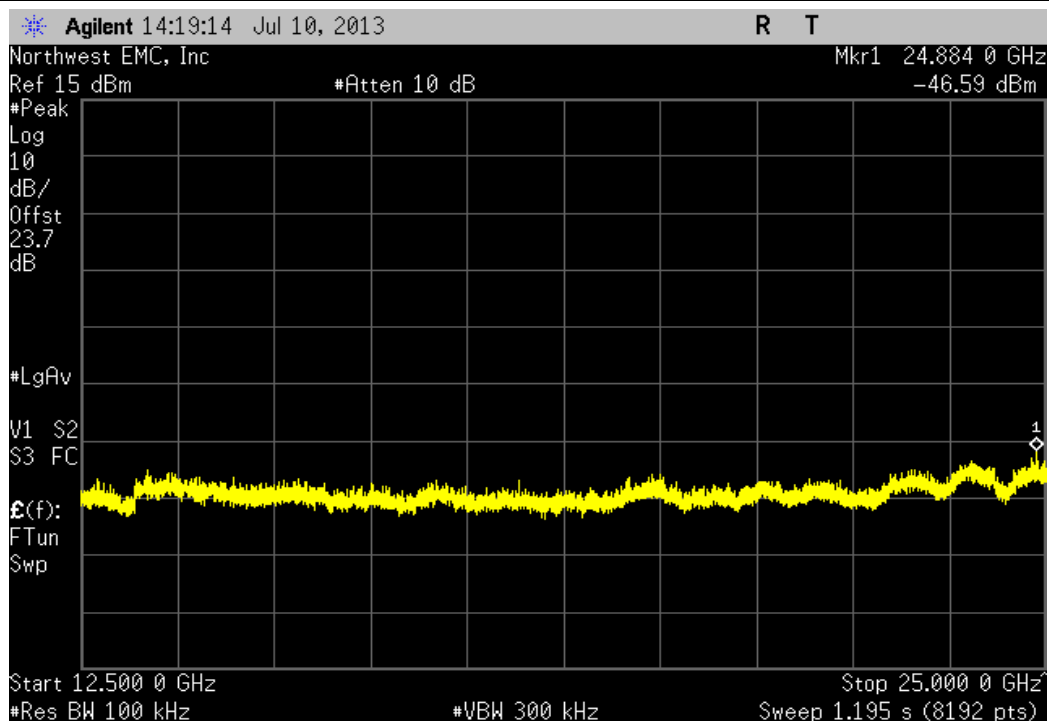
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



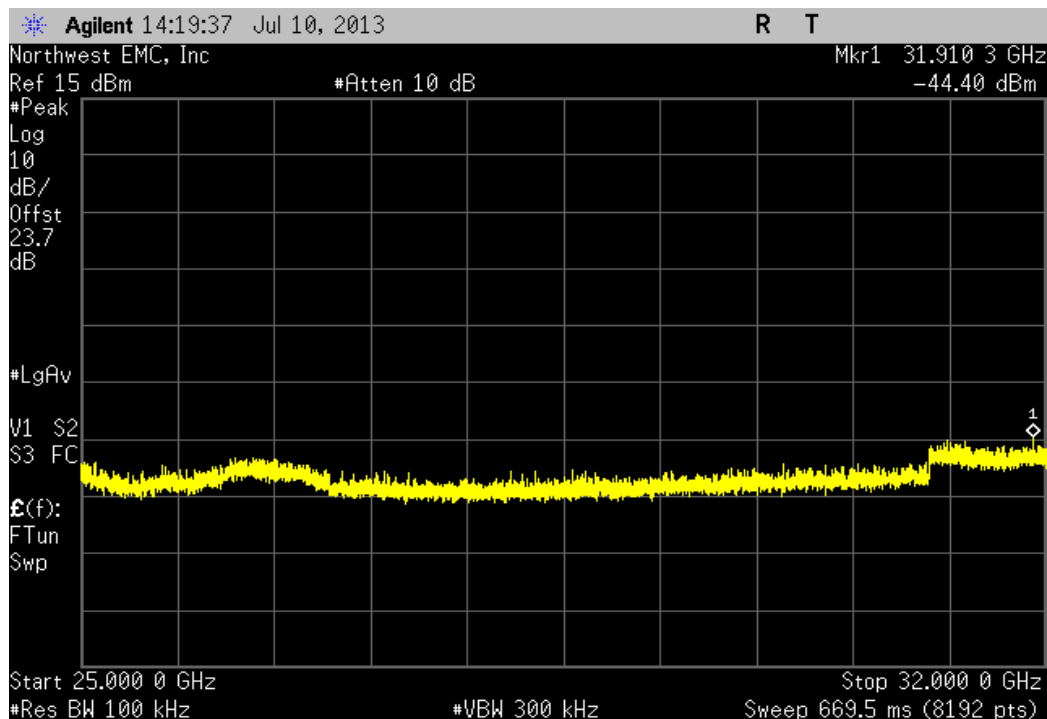
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.77 dBc	≤ -20 dBc	Pass	



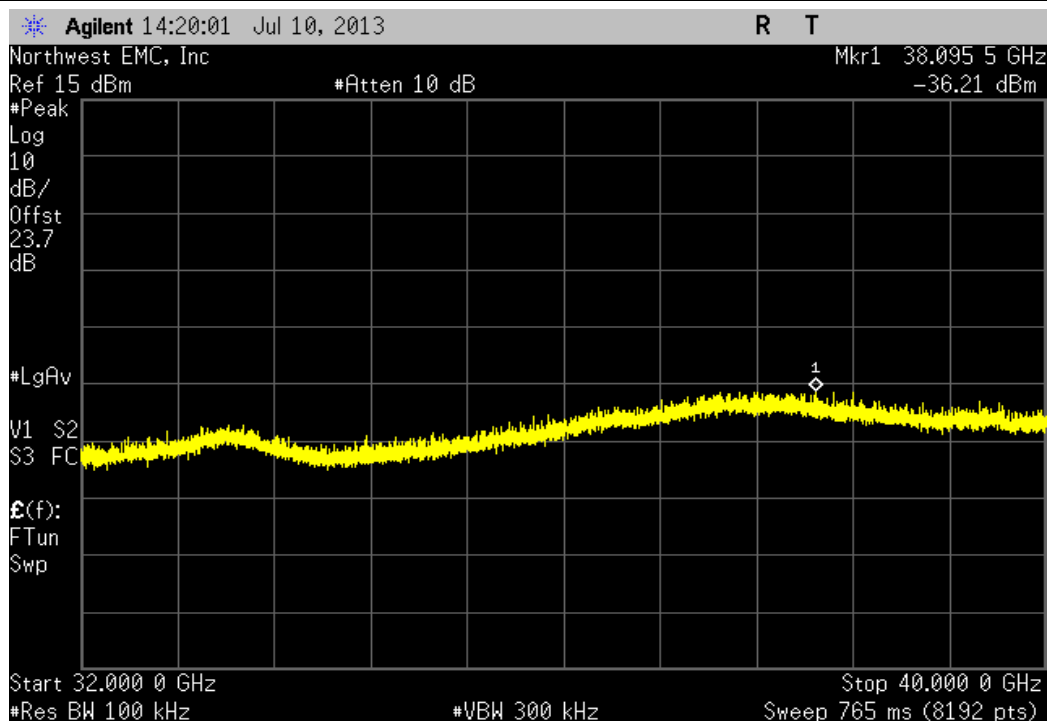
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.19 dBc	≤ -20 dBc	Pass	



Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-41 dBc	≤ -20 dBc	Pass



Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-32.81 dBc	≤ -20 dBc	Pass



Spurious Conducted Emissions - Antenna A

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Agilent	N5183A	TID	9/19/2011	36
Attenuator	Fairview Microwave	SA4014-20	TKE	2/12/2013	12
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24
NC02 Cable	ESM Cable Corp	TTBJ-141 KMKM-72	NC5	7/3/2013	12

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.

DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.



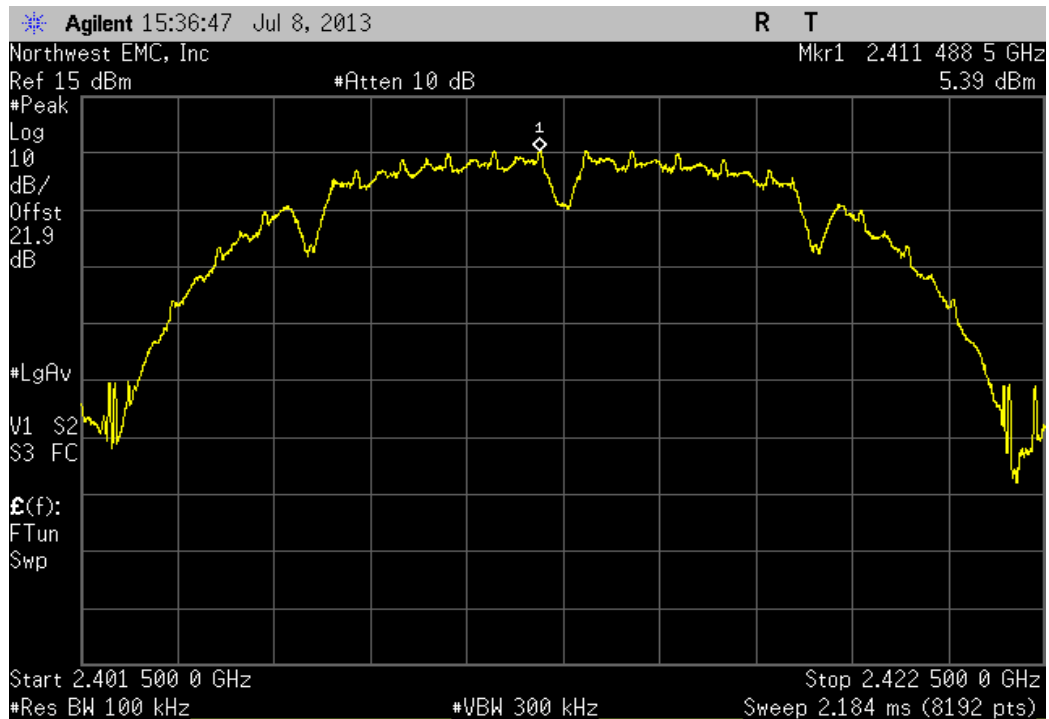
Spurious Conducted Emissions - Antenna A

XMit 2013.02.28
PsaTx 2013.06.07

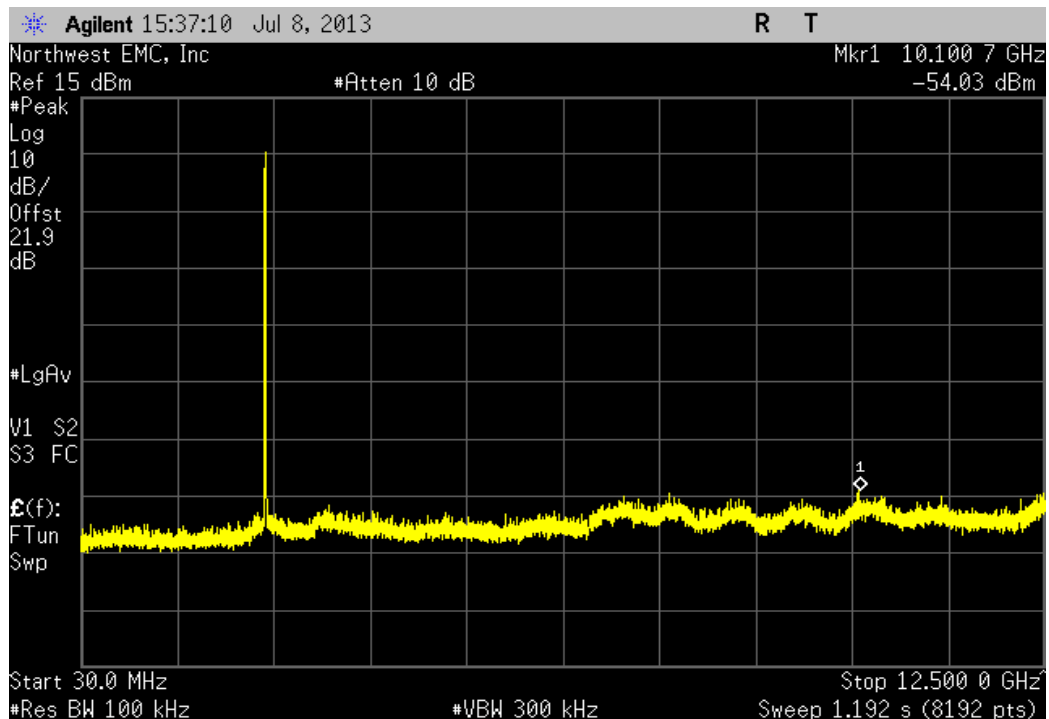
EUT: 1601		Work Order: MCSO1665			
Serial Number: 006079632553		Date: 07/09/13			
Customer: Microsoft Corporation		Temperature: 23°C			
Attendees: None		Humidity: 45%			
Project: None		Barometric Pres.: 1020 mb			
Tested by: Richard Mellroth, Brandon Hobbs		Power: 110VAC/60Hz			
TEST SPECIFICATIONS		Test Method			
FCC 15.247.2013		ANSI C63.10.2009			
COMMENTS					
EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.					
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	-59.42 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-55.01 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	-59.74 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-56.06 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	-59.95 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.44 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	-61.45 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-56.72 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	-61.6 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-57.48 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	-60.98 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-56.07 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	-53.05 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-54.91 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	-58.92 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-54.3 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	-58.78 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-53.29 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 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-54.5 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	-59.36 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-54.92 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	-59.4 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.34 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	-54.81 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-54.92 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	-59.48 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-55.32 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	-58.67 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.37 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	-52.04 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-55.55 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	-59.7 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-54.46 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	-58.58 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-53.6 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	-54.67 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-54.6 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	-58.59 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-55.14 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	-59.36 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.76 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band					
802.11(a) 6 Mbps					
Low Channel 149, 5745 MHz		Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-49.38 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-48.36 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-44.92 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-35.93 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-52.79 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-49.13 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-46.33 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-36.83 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-51.33 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-47.16 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-44.95 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-34.72 dBc	≤ -20 dBc	Pass

	Frequency Range	Value	Limit	Result
802.11(a) 36 Mbps				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-49.84 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-48.12 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-46.06 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-35.96 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-51.23 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-48.98 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-46.32 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-37.09 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-51.51 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-48.07 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-44.12 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-35.08 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-49.47 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-49.05 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-45.52 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-36.69 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-50.86 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-48.66 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-46.22 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-37.05 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-51.48 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-47.53 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-43.8 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-35.14 dBc	≤ -20 dBc	Pass
802.11(n) MCS0 - UNII				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-50.8 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-48.12 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-45.43 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-36.63 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-51.36 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-49.08 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-46.18 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-36.47 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-52.86 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-47.77 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-45.37 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-35.19 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-50.56 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-48.44 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-45.97 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-35.28 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-51.76 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-48.09 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-45.92 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-36.58 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-50.18 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-48.27 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-44.4 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-36.14 dBc	≤ -20 dBc	Pass
40 MHz				
2400 MHz - 2483.5 MHz Band				
802.11(n) MCS0				
Low Channel 1/5, 2422 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1/5, 2422 MHz	30 MHz - 12.5 GHz	-44.43 dBc	≤ -20 dBc	Pass
Low Channel 1/5, 2422 MHz	12.5 GHz - 25 GHz	-51.83 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 4/8, 2437 MHz	30 MHz - 12.5 GHz	-56.36 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	12.5 GHz - 25 GHz	-51.66 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	Fundamental	N/A	N/A	N/A
High Channel 7/11, 2452 MHz	30 MHz - 12.5 GHz	-53.22 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	12.5 GHz - 25 GHz	-52.38 dBc	≤ -20 dBc	Pass
802.11(n) MCS7				
Low Channel 1/5, 2422 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1/5, 2422 MHz	30 MHz - 12.5 GHz	-44.62 dBc	≤ -20 dBc	Pass
Low Channel 1/5, 2422 MHz	12.5 GHz - 25 GHz	-52.32 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 4/8, 2437 MHz	30 MHz - 12.5 GHz	-53.76 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	12.5 GHz - 25 GHz	-51.54 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	Fundamental	N/A	N/A	N/A
High Channel 7/11, 2452 MHz	30 MHz - 12.5 GHz	-51.74 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	12.5 GHz - 25 GHz	-52.1 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band				
802.11(n) MCS0 - UNII				
Low Channel 149/153, 5755 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149/153, 5755 MHz	30 MHz - 12.5 GHz	-46.88 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	12.5 GHz - 25 GHz	-45.82 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	25 GHz - 32 GHz	-42.86 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	32 GHz - 40 GHz	-33.91 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	Fundamental	N/A	N/A	N/A
High Channel 157/161, 5795 MHz	30 MHz - 12.5 GHz	-47.38 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	12.5 GHz - 25 GHz	-46.44 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	25 GHz - 32 GHz	-43.43 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	32 GHz - 40 GHz	-33.59 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII				
Low Channel 149/153, 5755 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149/153, 5755 MHz	30 MHz - 12.5 GHz	-48.28 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	12.5 GHz - 25 GHz	-44.86 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	25 GHz - 32 GHz	-42.75 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	32 GHz - 40 GHz	-33.49 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	Fundamental	N/A	N/A	N/A
High Channel 157/161, 5795 MHz	30 MHz - 12.5 GHz	-49.76 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	12.5 GHz - 25 GHz	-45.67 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	25 GHz - 32 GHz	-42.76 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	32 GHz - 40 GHz	-33.66 dBc	≤ -20 dBc	Pass

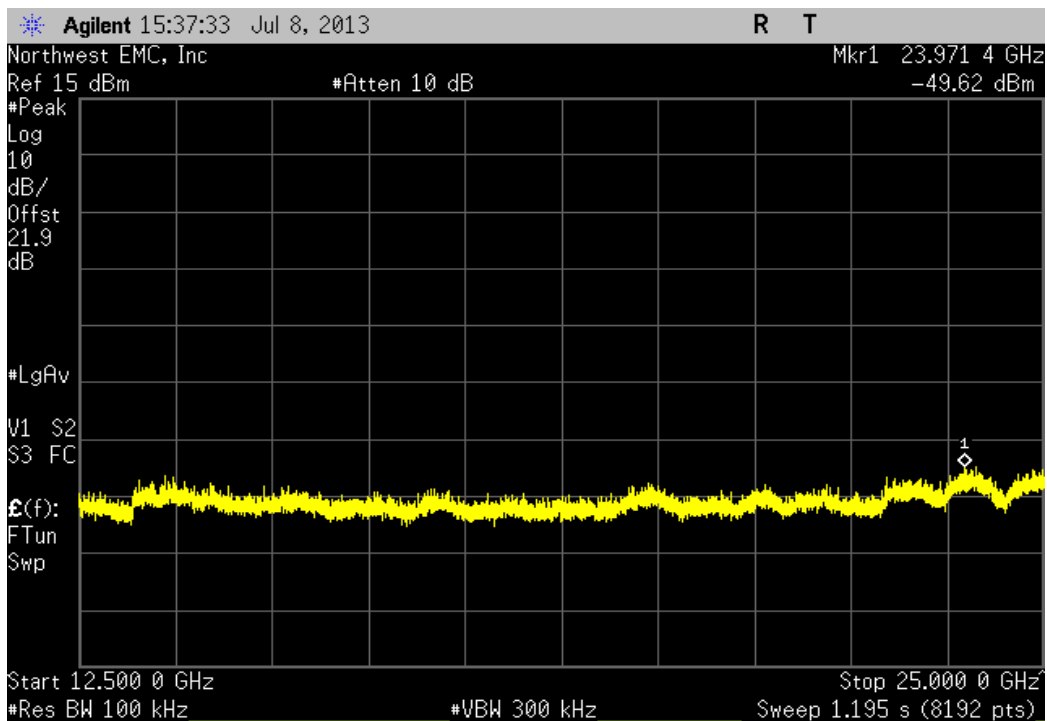
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency	Range	Value	Limit	Result
Fundamental		N/A	N/A	N/A



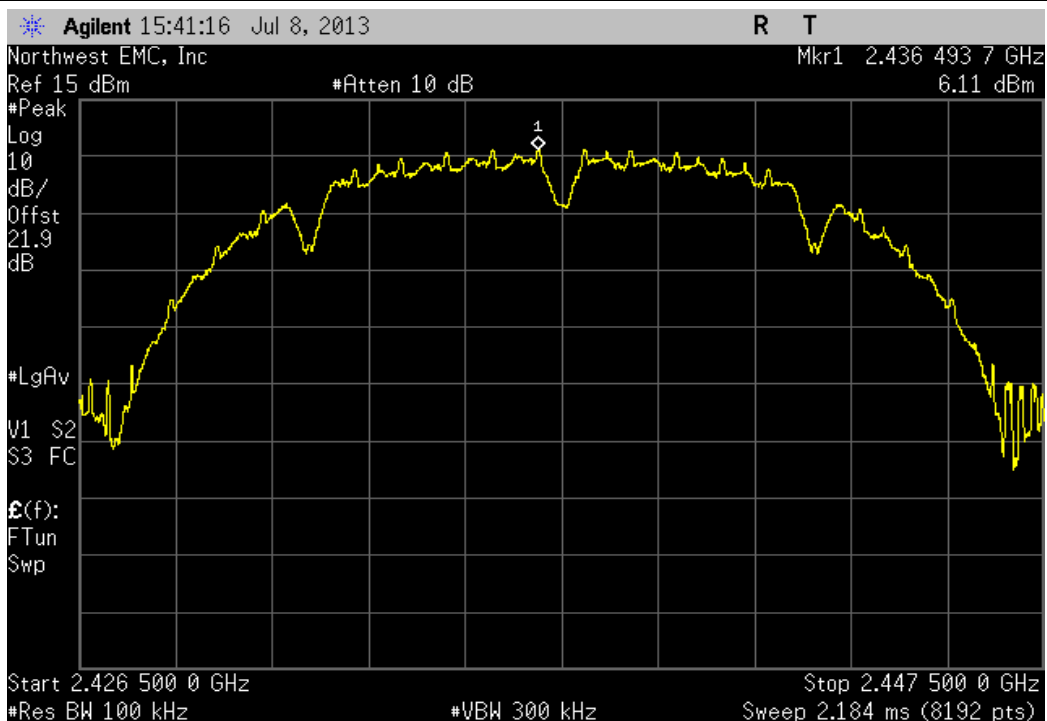
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency	Range	Value	Limit	Result
30 MHz - 12.5 GHz		-59.42 dBc	≤ -20 dBc	Pass



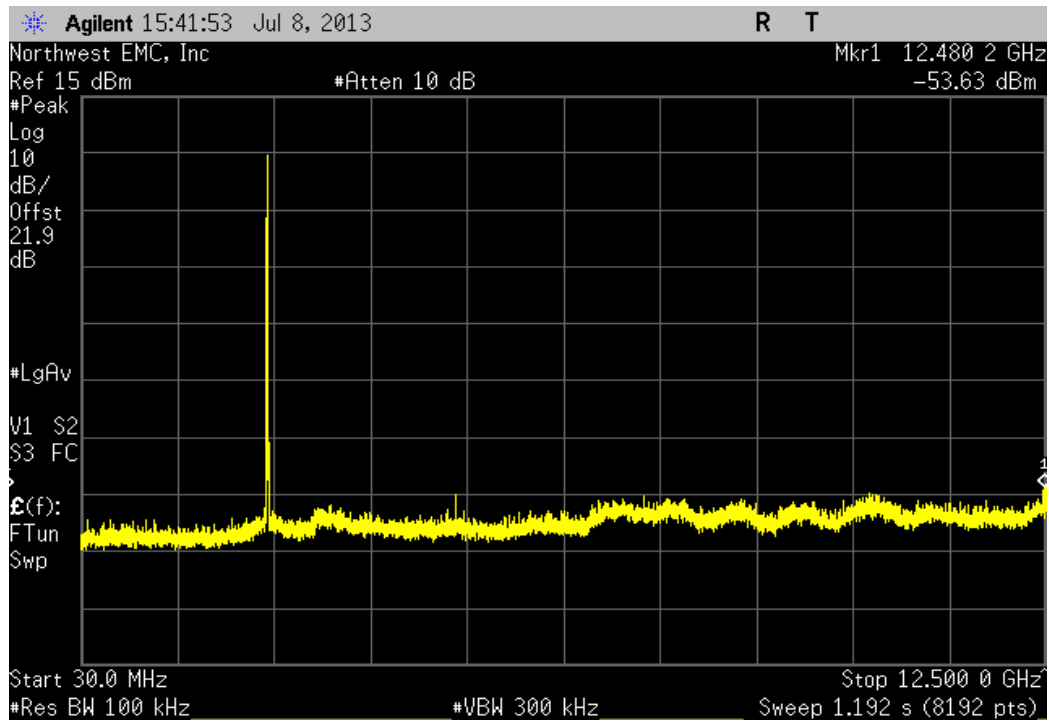
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-55.01 dBc	≤ -20 dBc	Pass



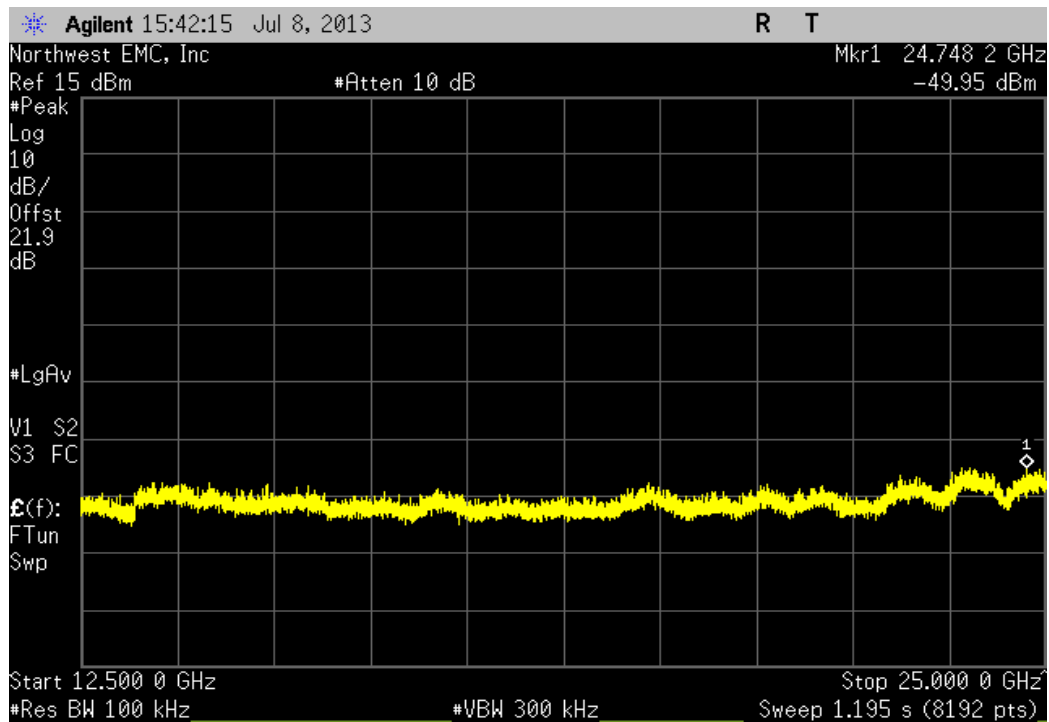
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



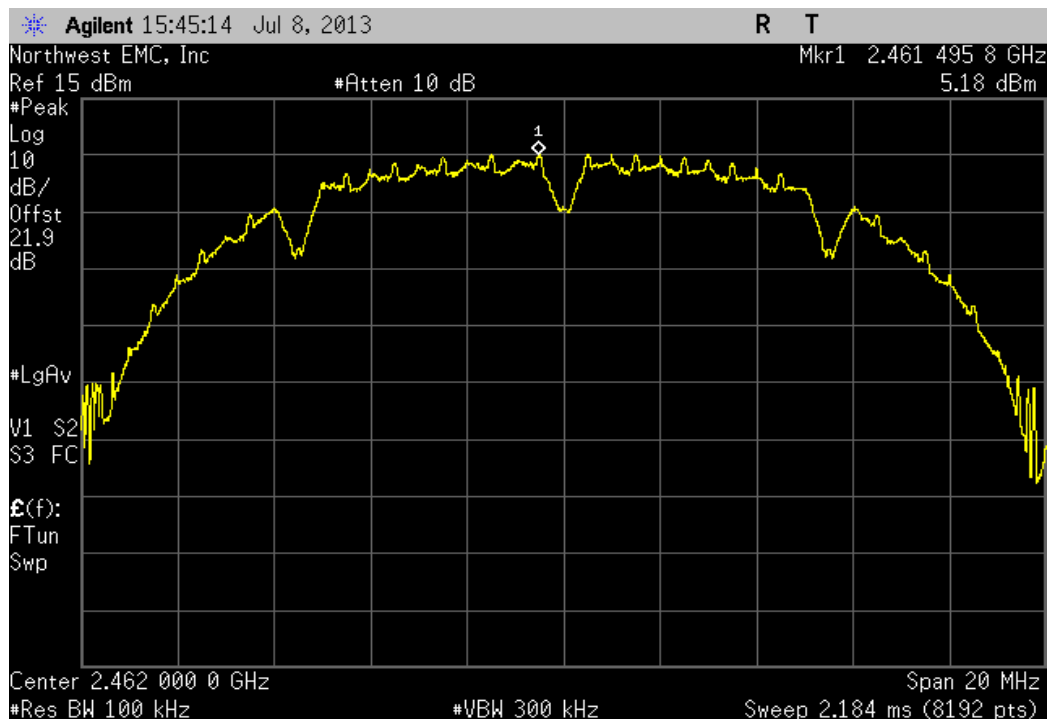
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-59.74 dBc	≤ -20 dBc	Pass	



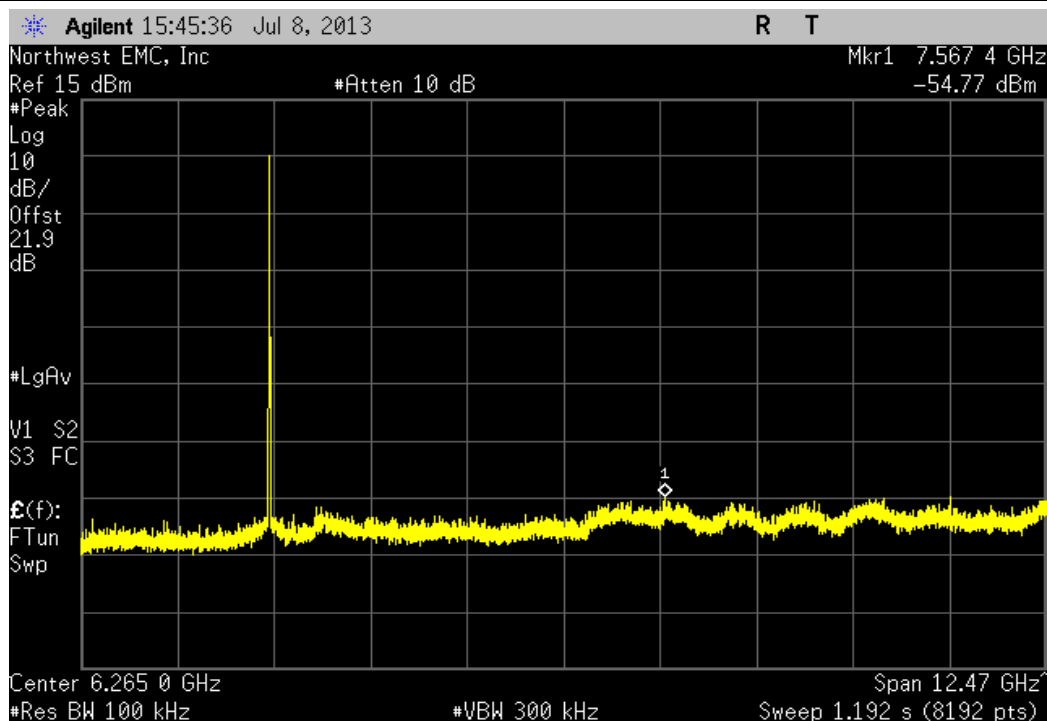
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-56.06 dBc	≤ -20 dBc	Pass	



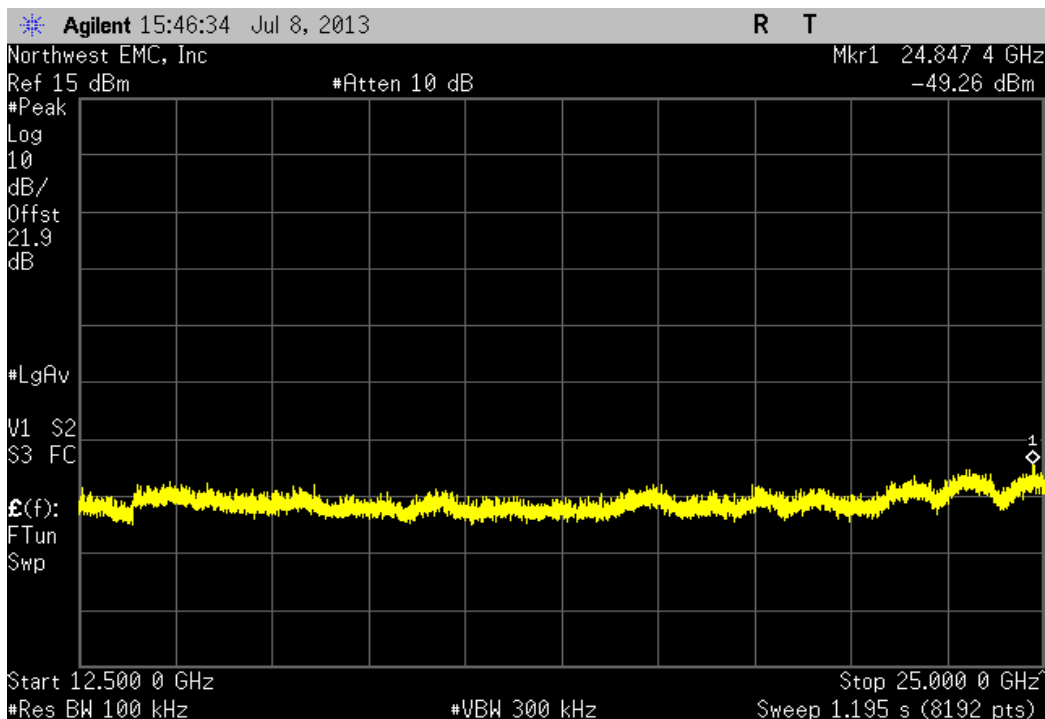
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



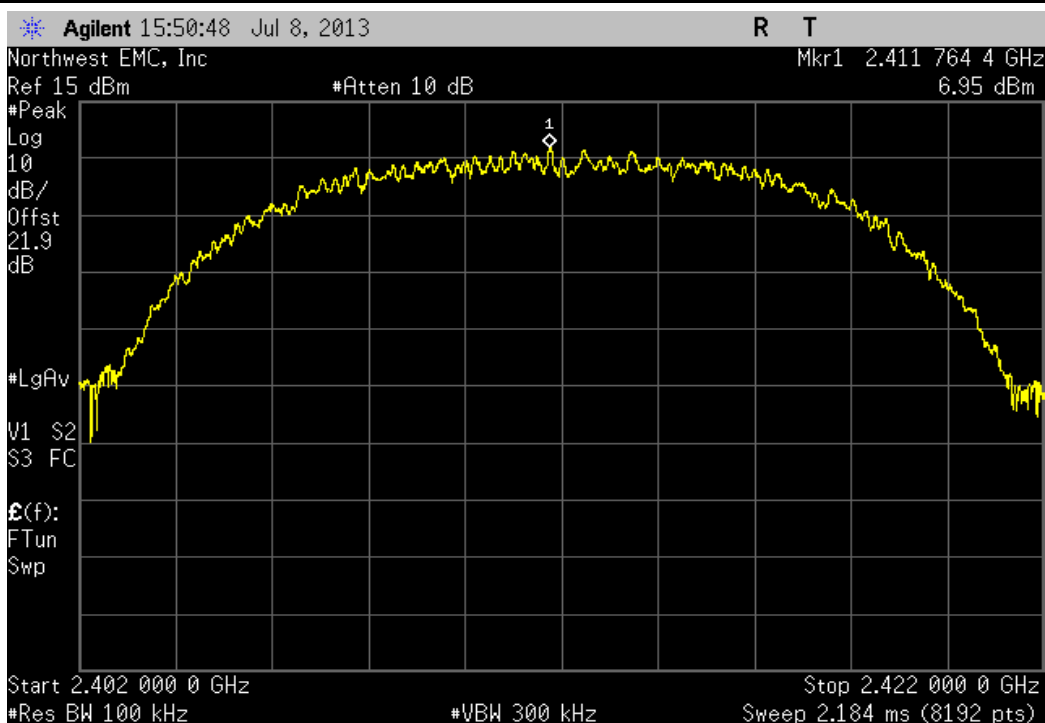
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-59.95 dBc	≤ -20 dBc	Pass



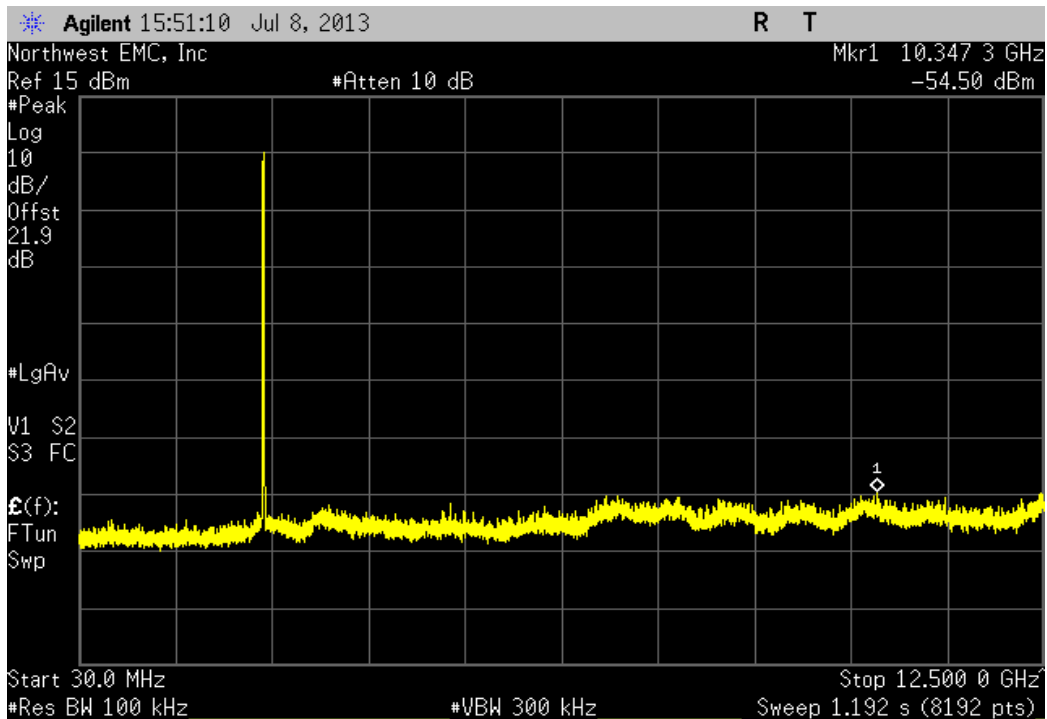
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.44 dBc	≤ -20 dBc	Pass



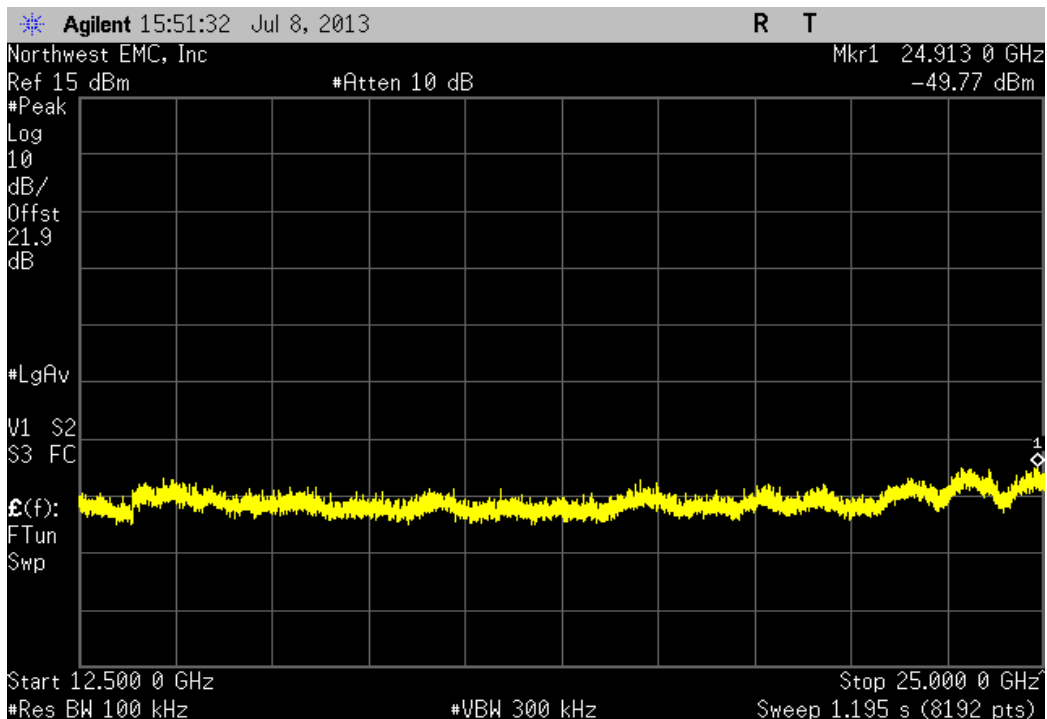
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



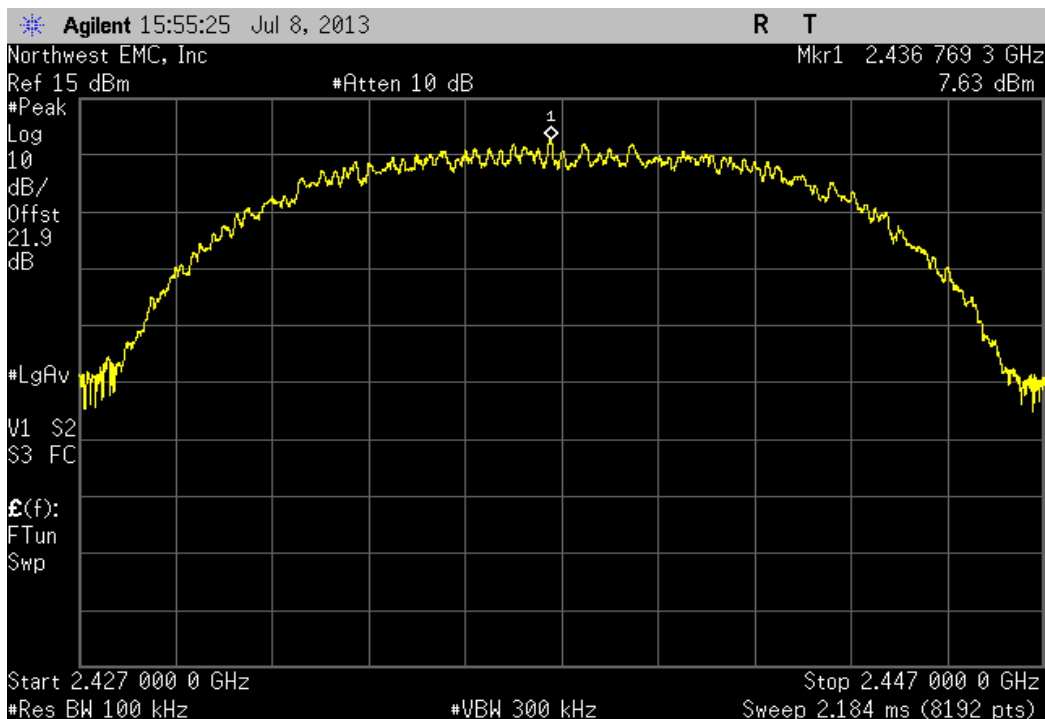
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-61.45 dBc	≤ -20 dBc	Pass	



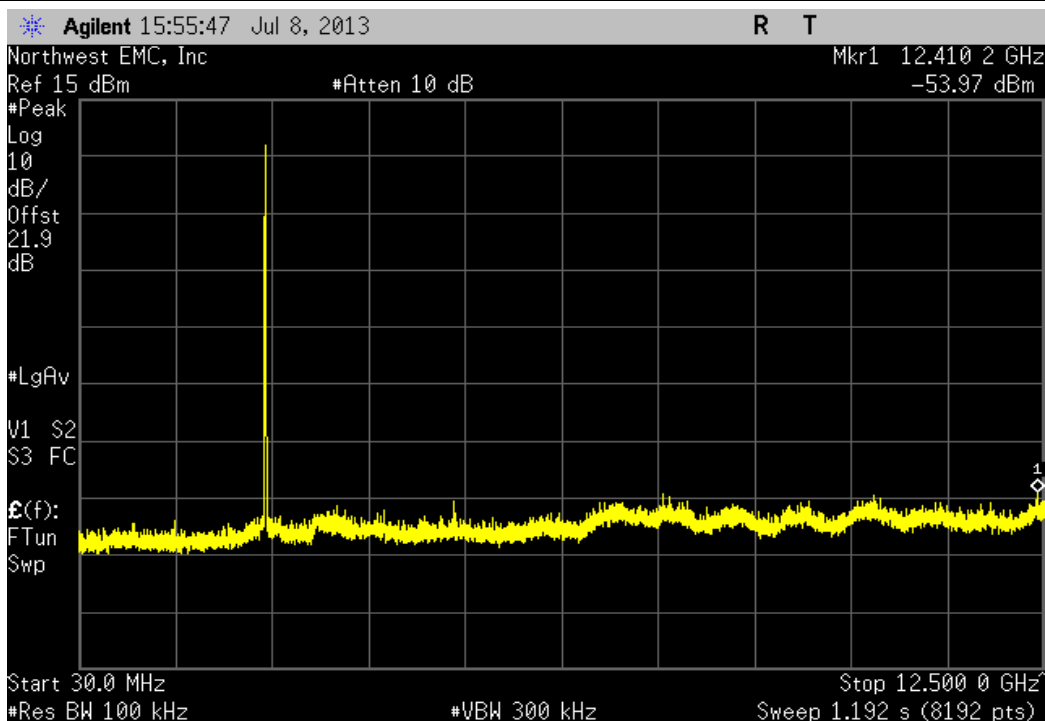
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-56.72 dBc	≤ -20 dBc	Pass	



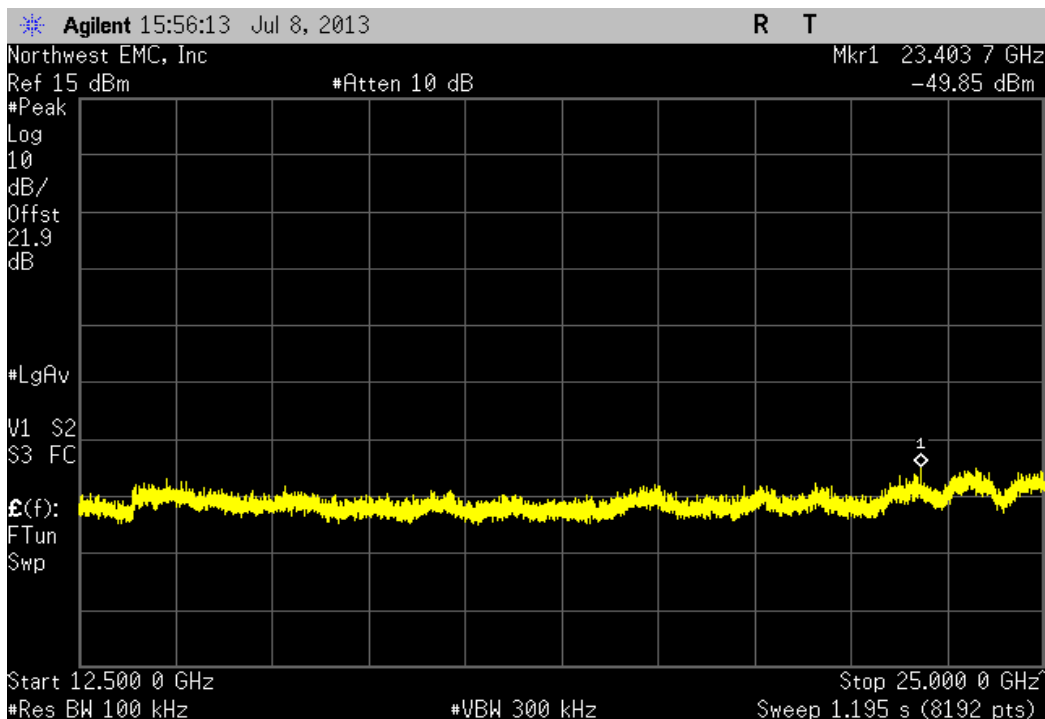
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



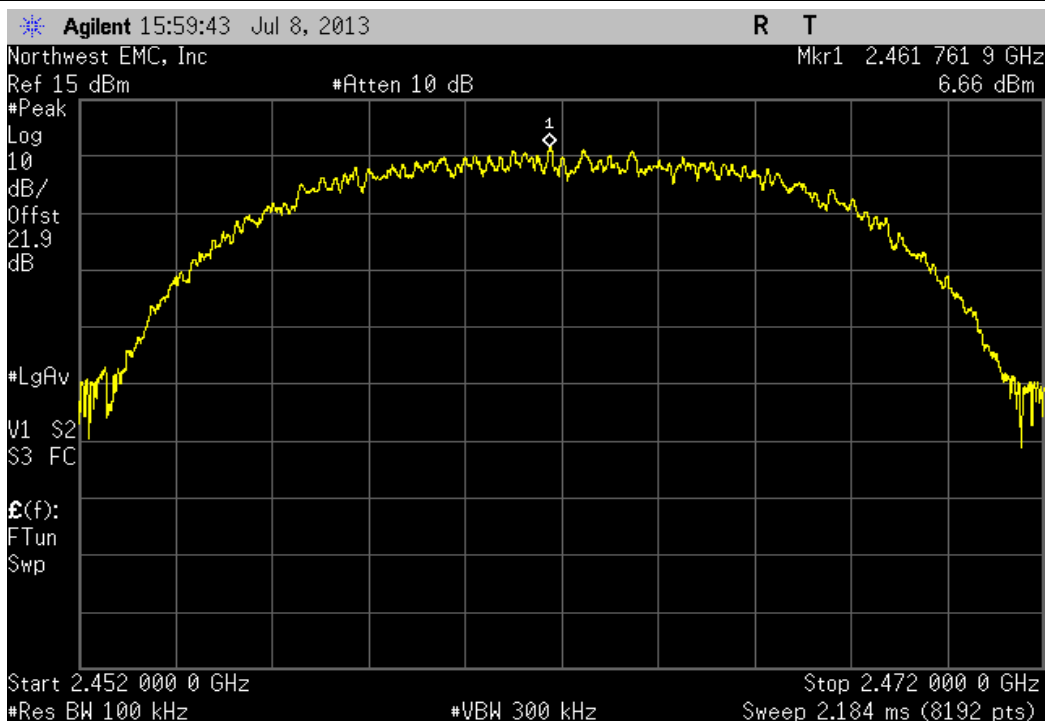
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-61.6 dBc	≤ -20 dBc	Pass



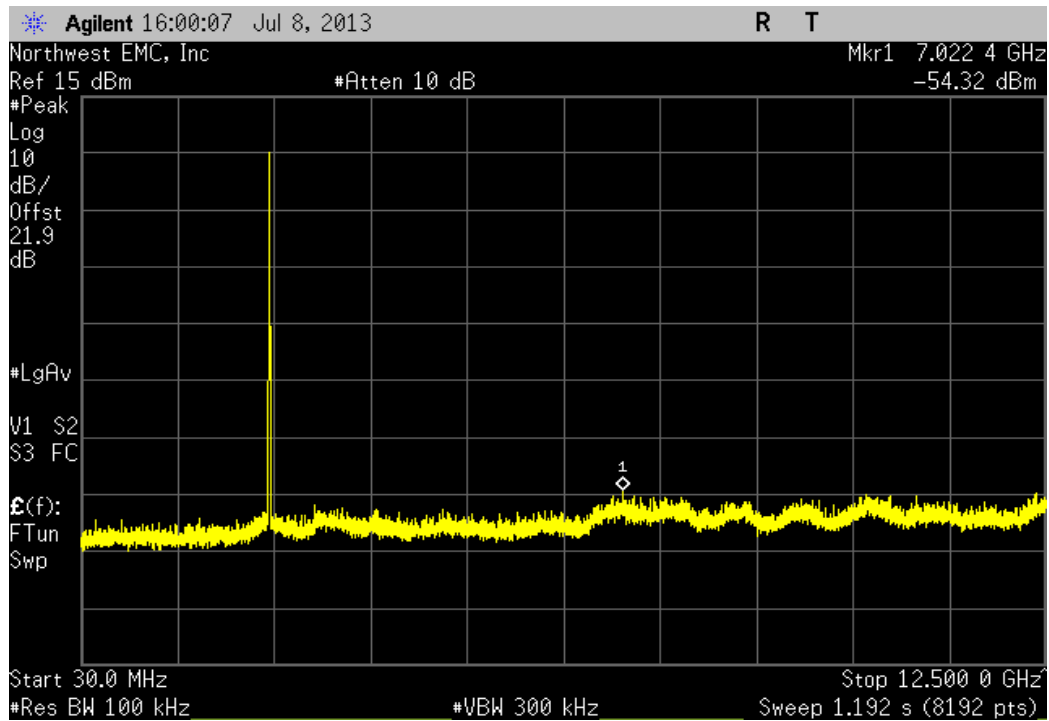
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-57.48 dBc	≤ -20 dBc	Pass



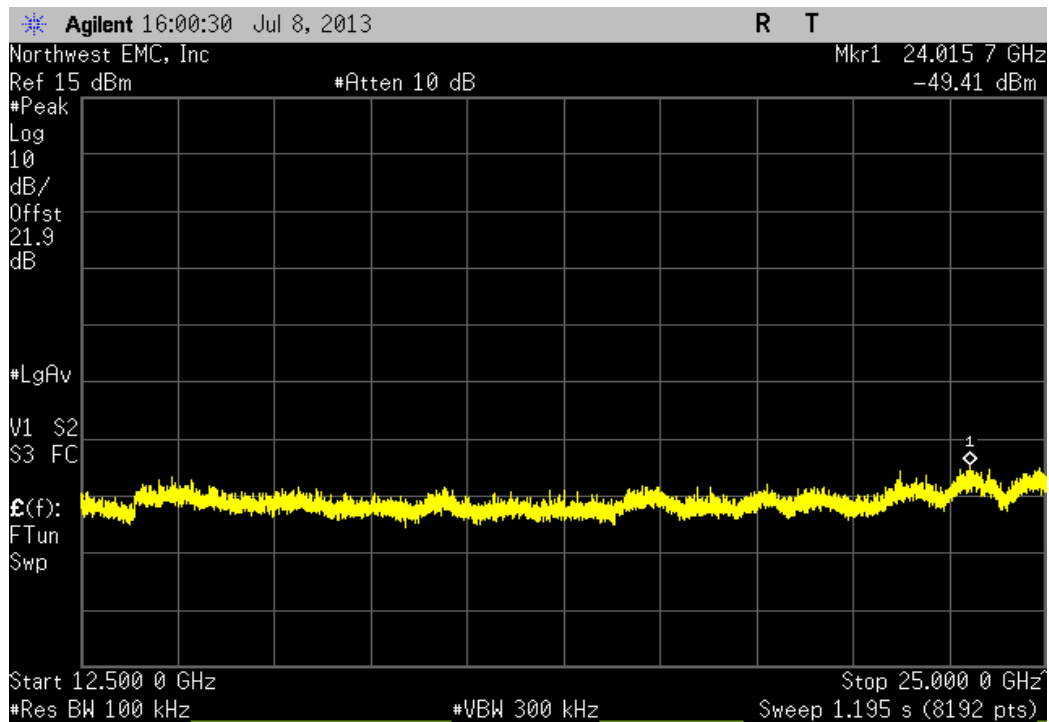
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



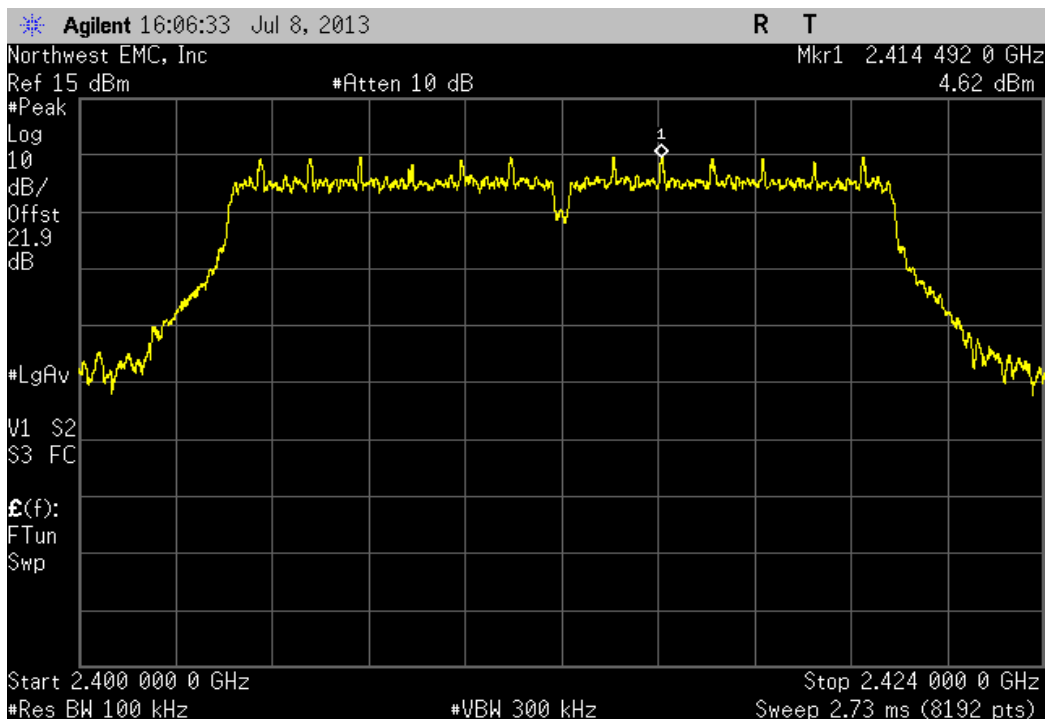
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-60.98 dBc	≤ -20 dBc	Pass	



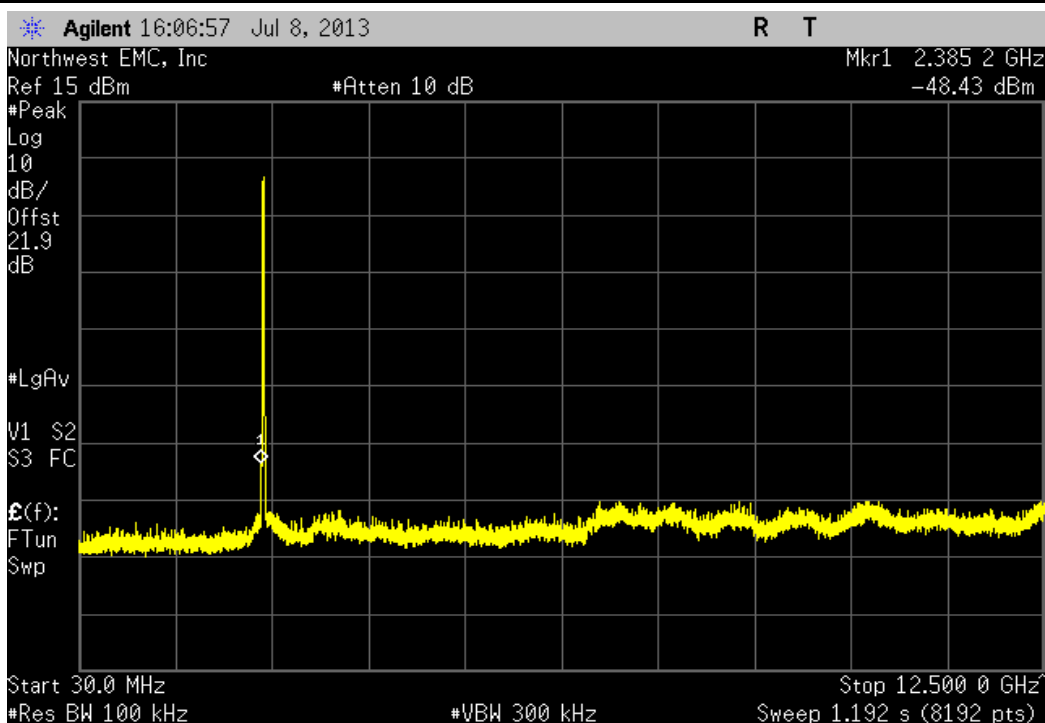
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-56.07 dBc	≤ -20 dBc	Pass	



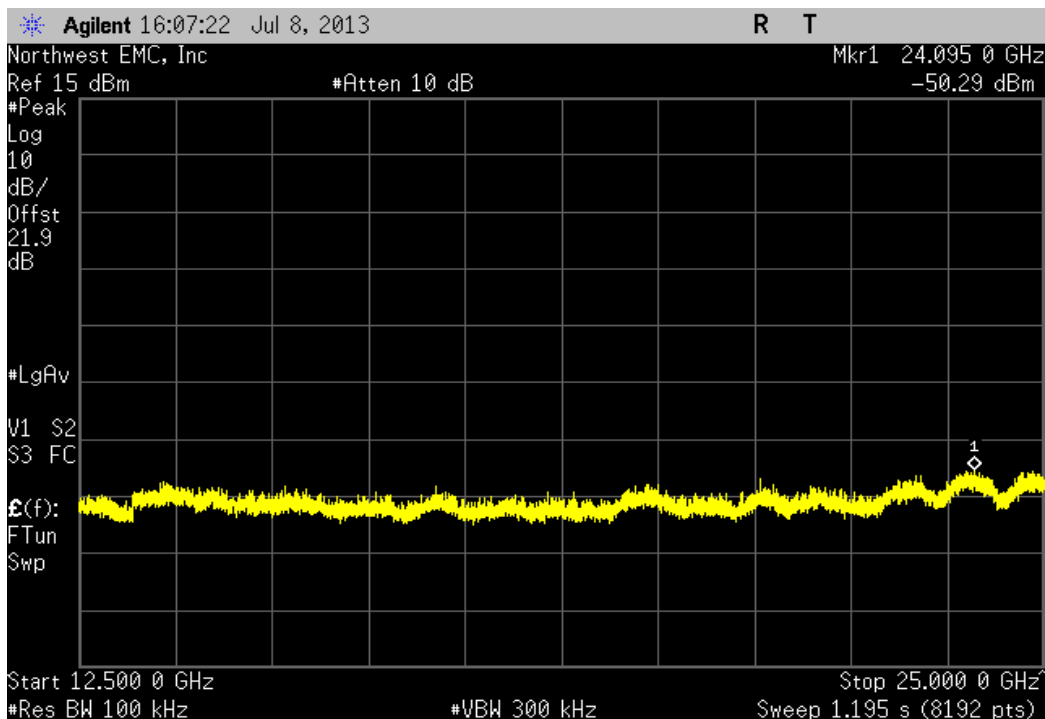
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



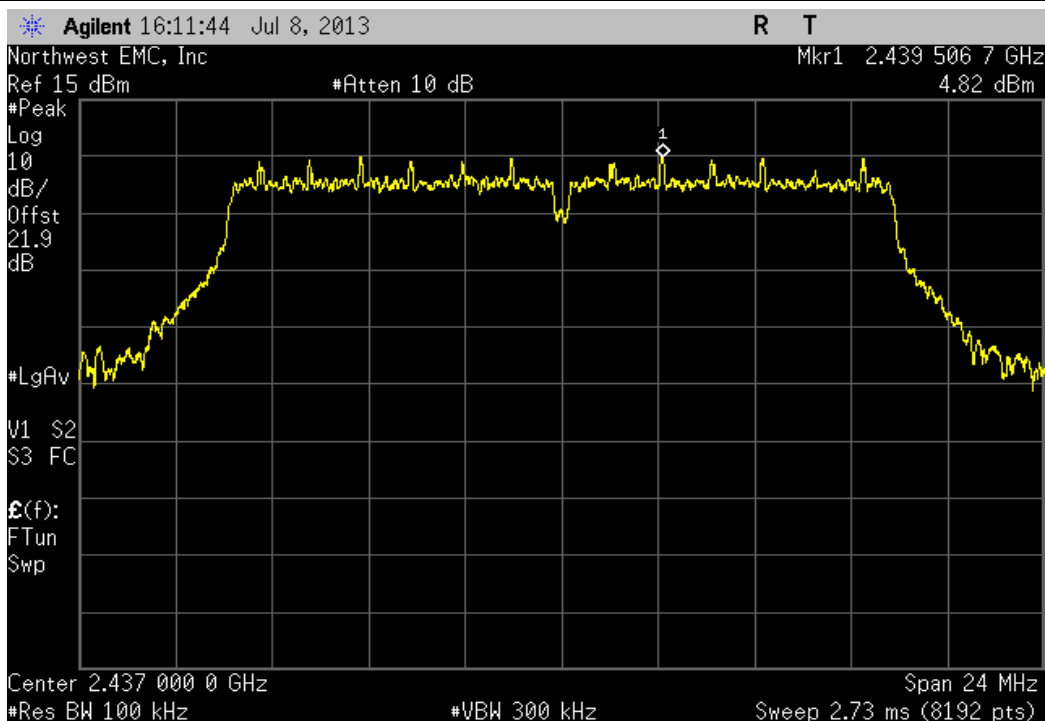
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.05 dBc	≤ -20 dBc	Pass



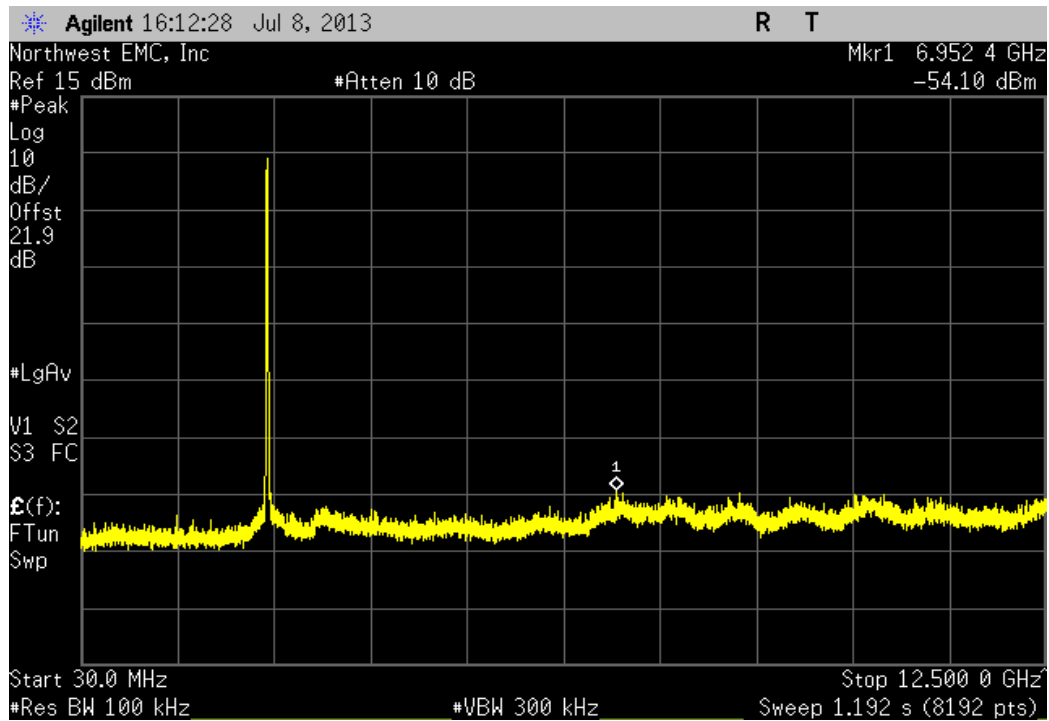
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.91 dBc	≤ -20 dBc	Pass



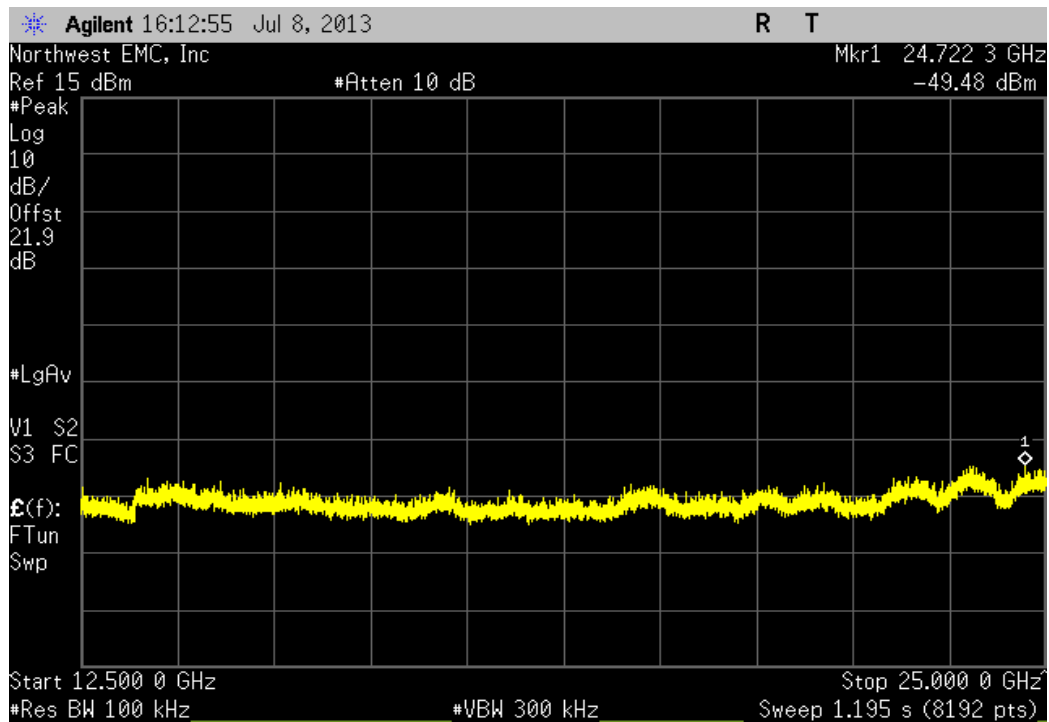
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



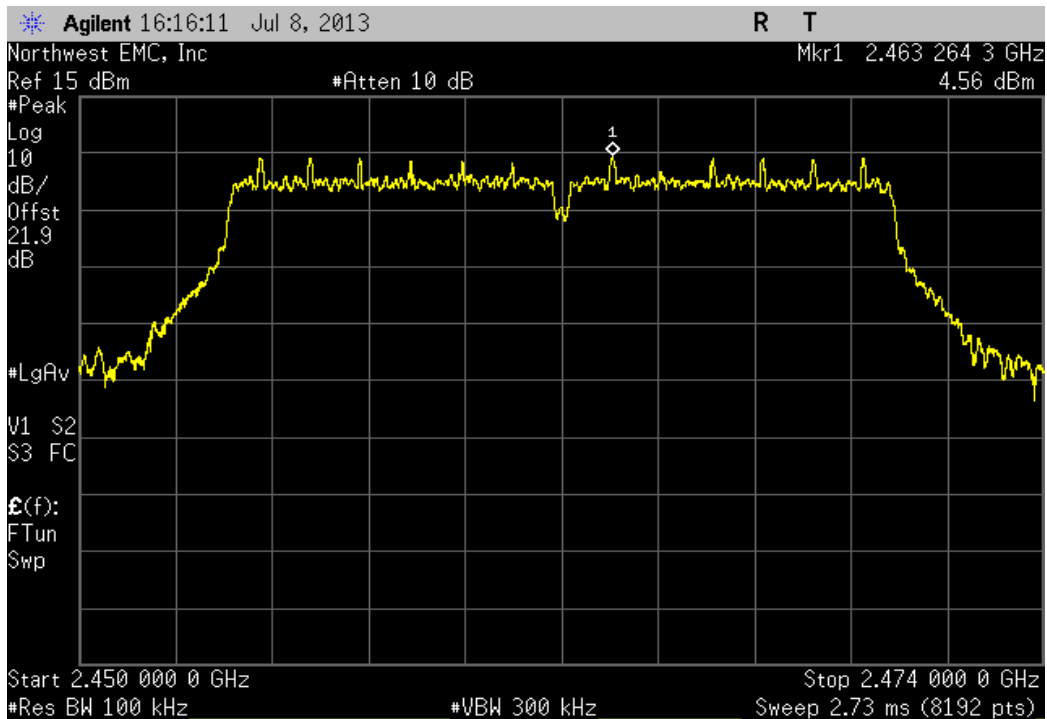
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.92 dBc	≤ -20 dBc	Pass	



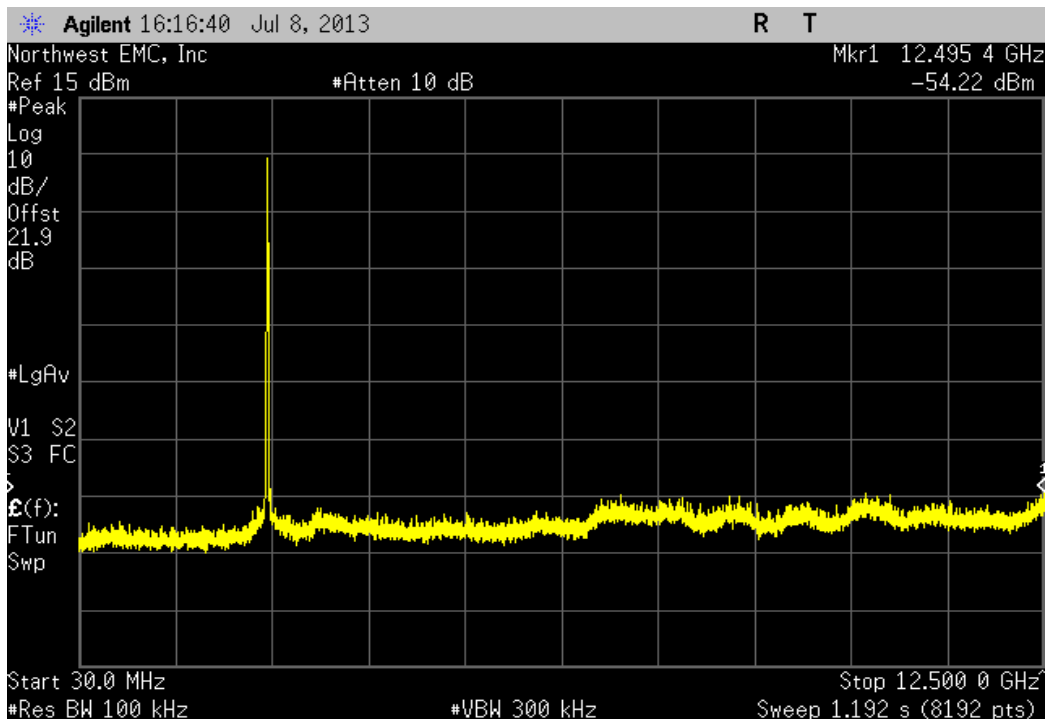
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.3 dBc	≤ -20 dBc	Pass	



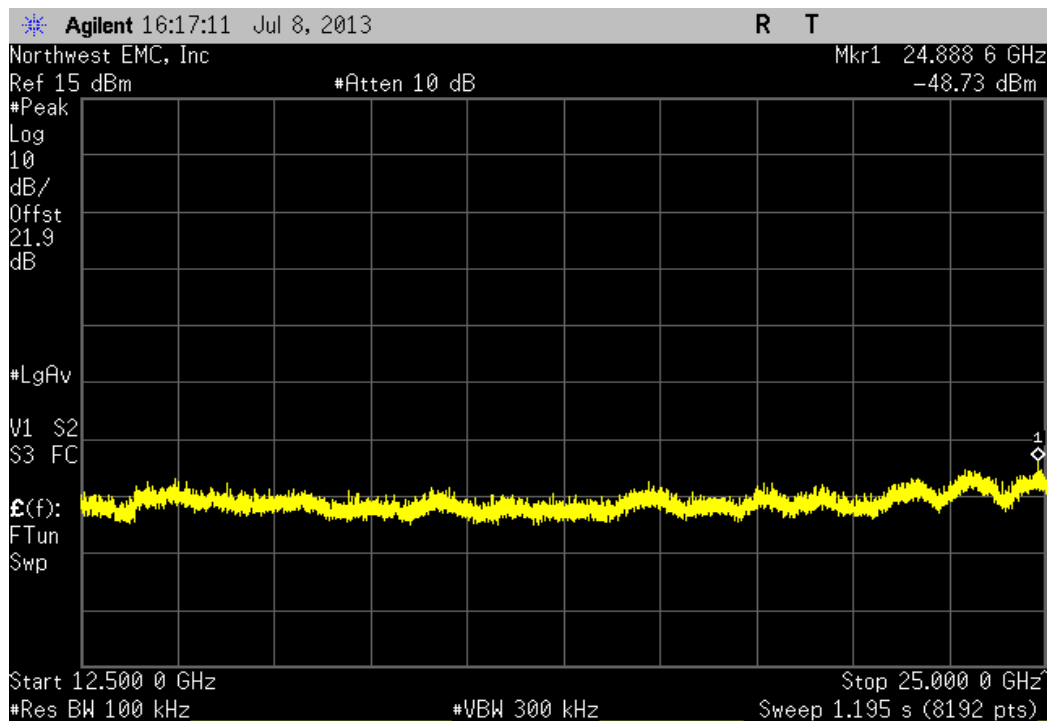
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



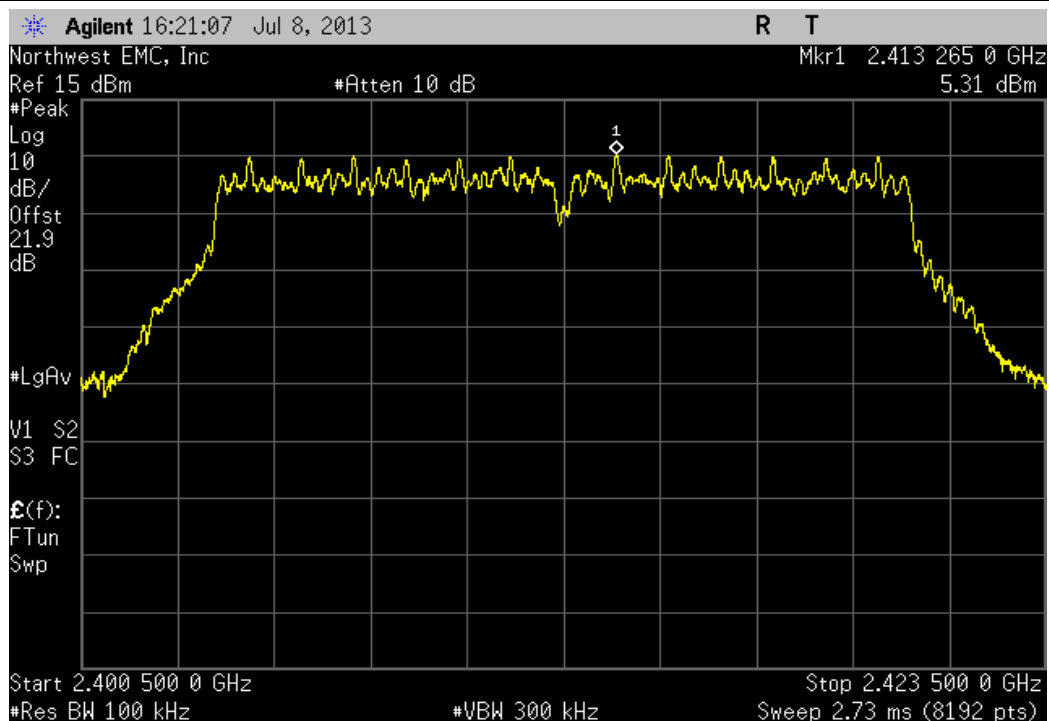
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-58.78 dBc	≤ -20 dBc	Pass



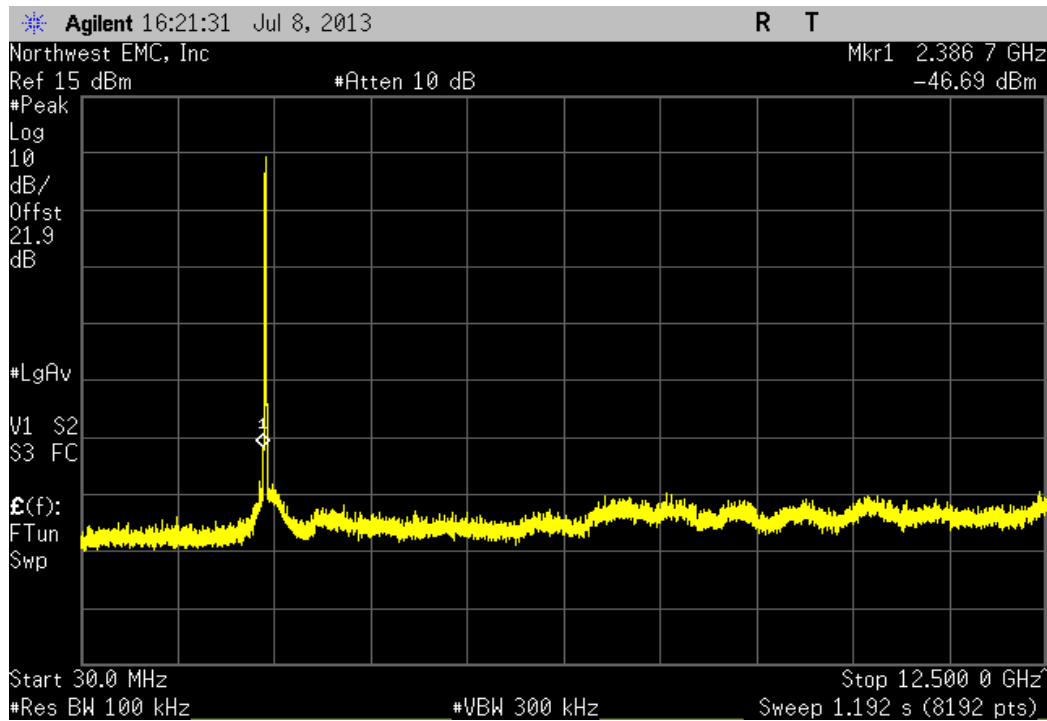
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.29 dBc	≤ -20 dBc	Pass



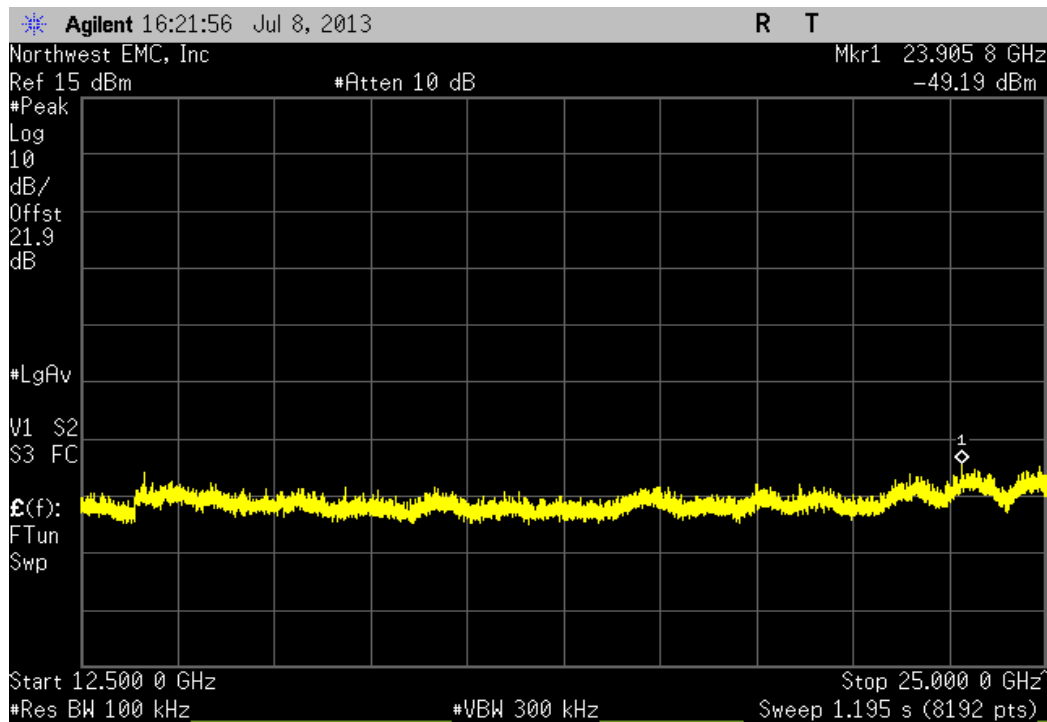
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



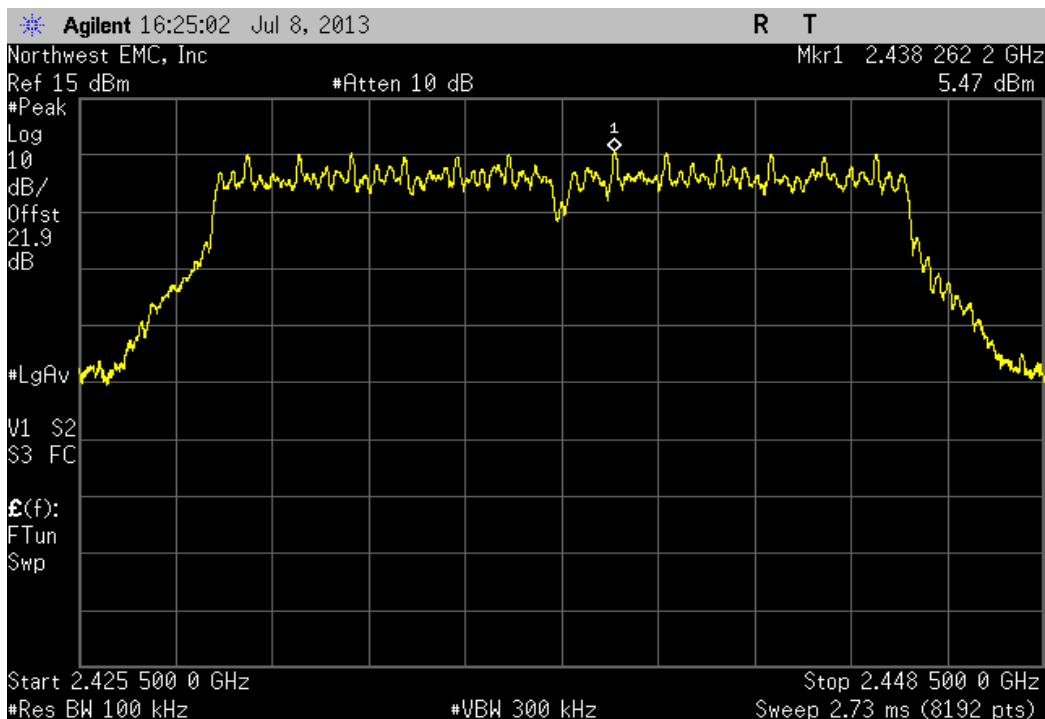
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52 dBc	≤ -20 dBc	Pass	



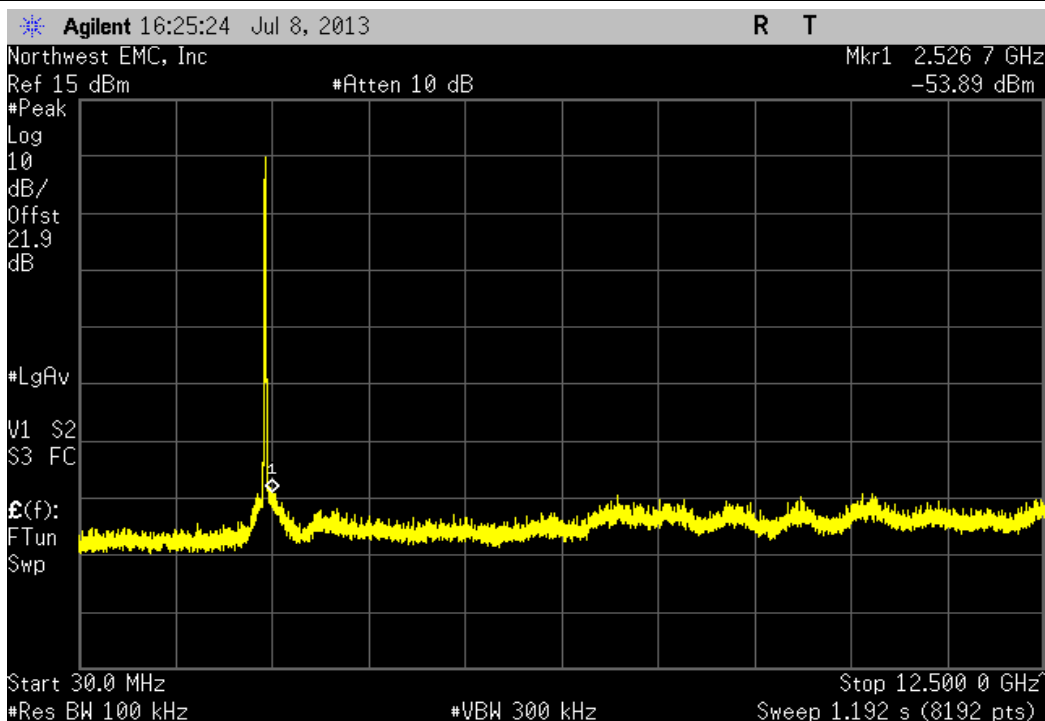
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.5 dBc	≤ -20 dBc	Pass	



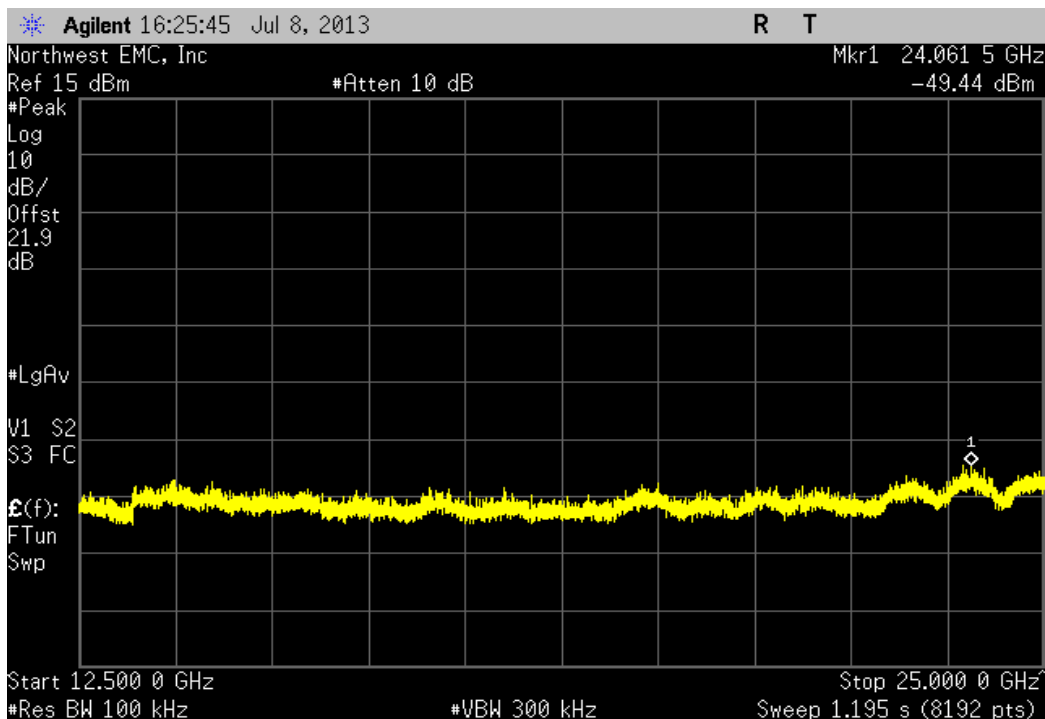
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



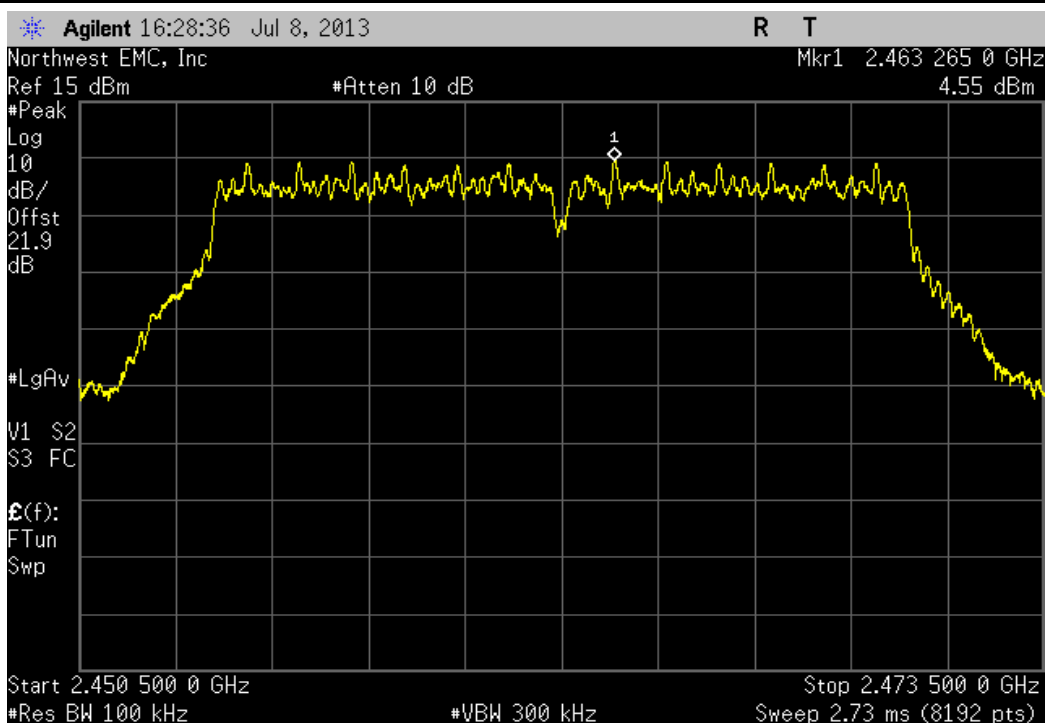
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-59.36 dBc	≤ -20 dBc	Pass



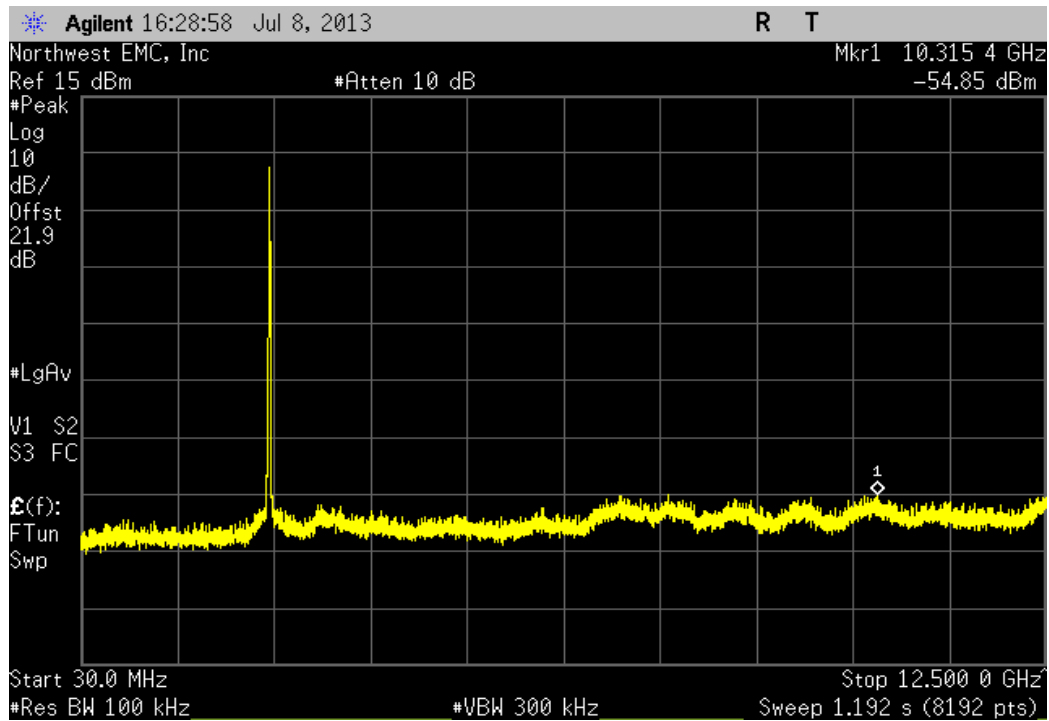
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.92 dBc	≤ -20 dBc	Pass	



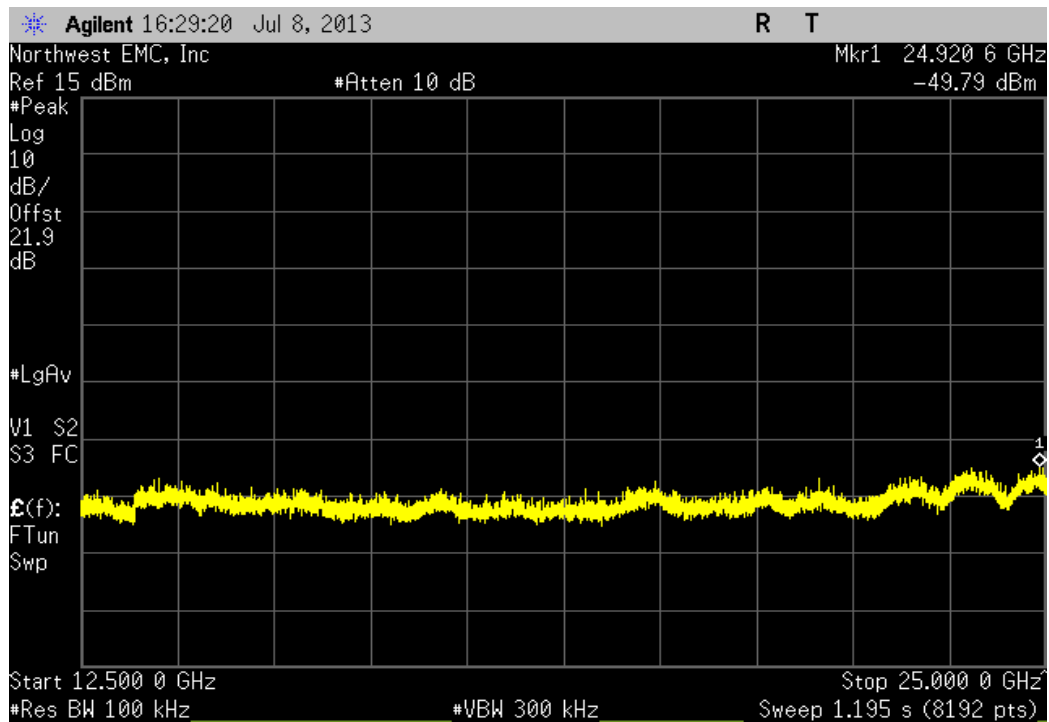
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



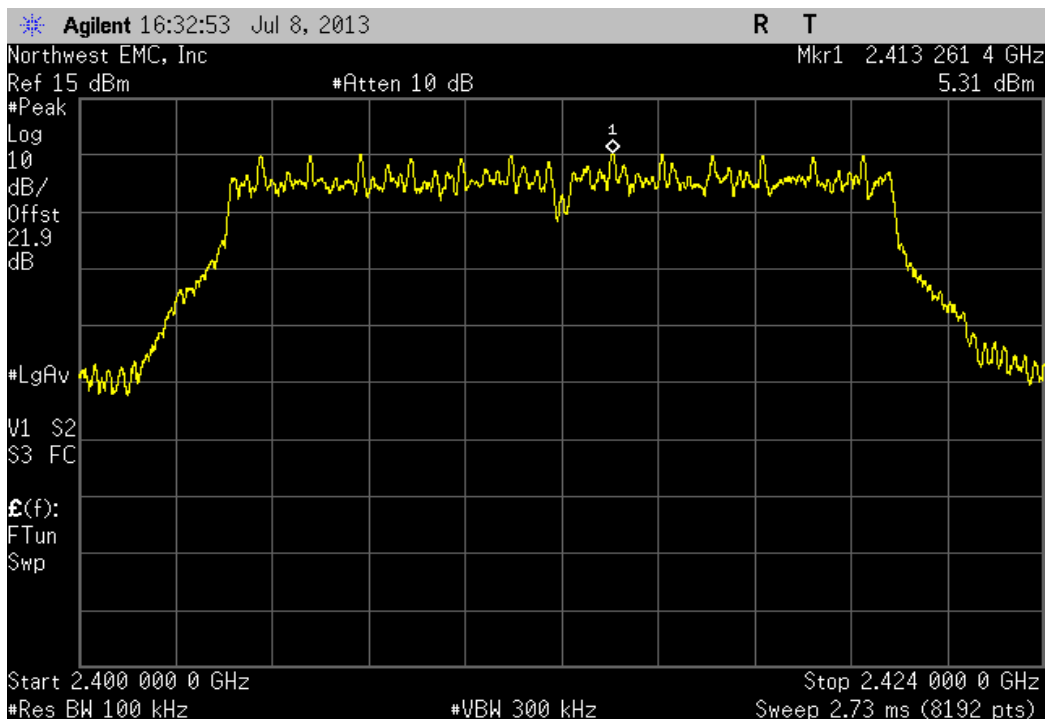
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-59.4 dBc	≤ -20 dBc	Pass	



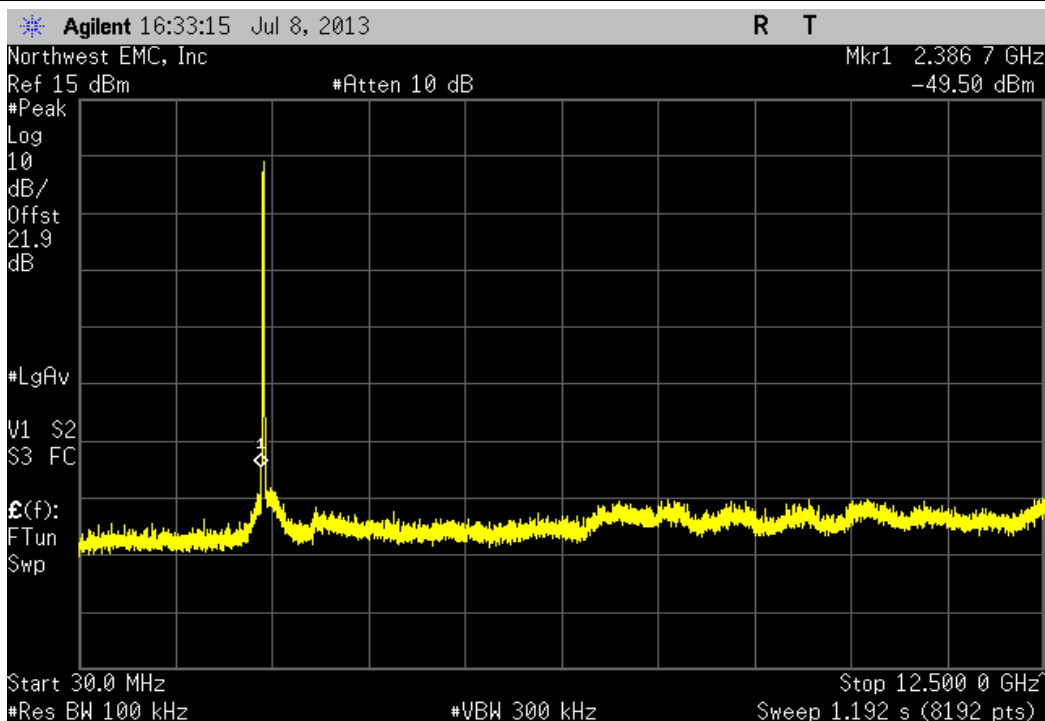
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.34 dBc	≤ -20 dBc	Pass	



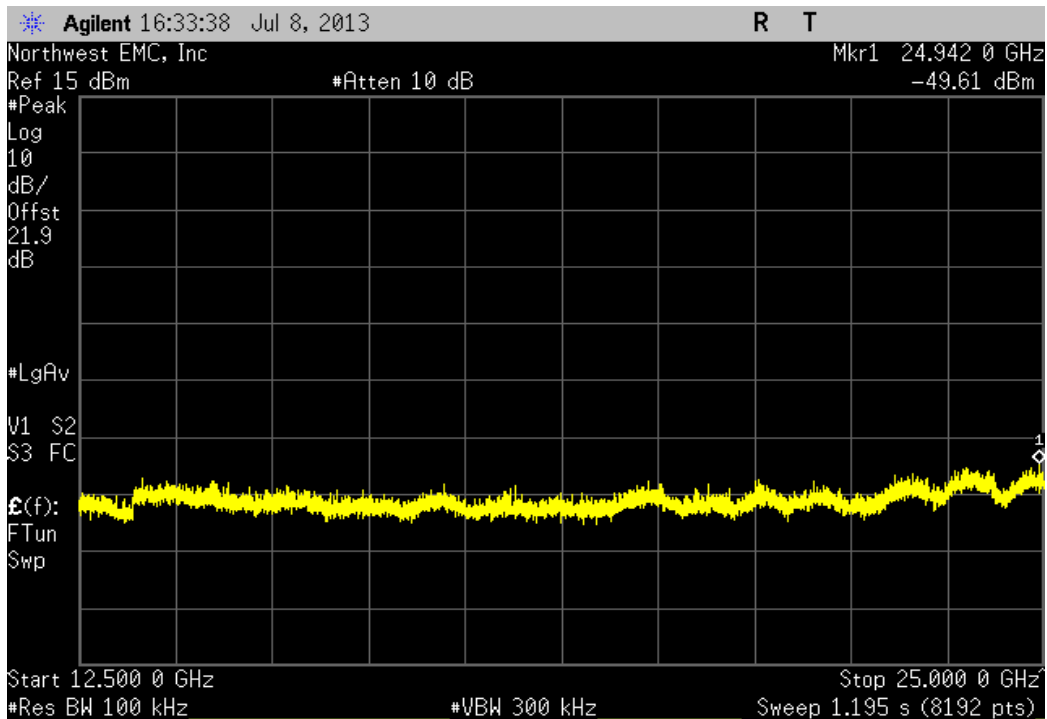
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



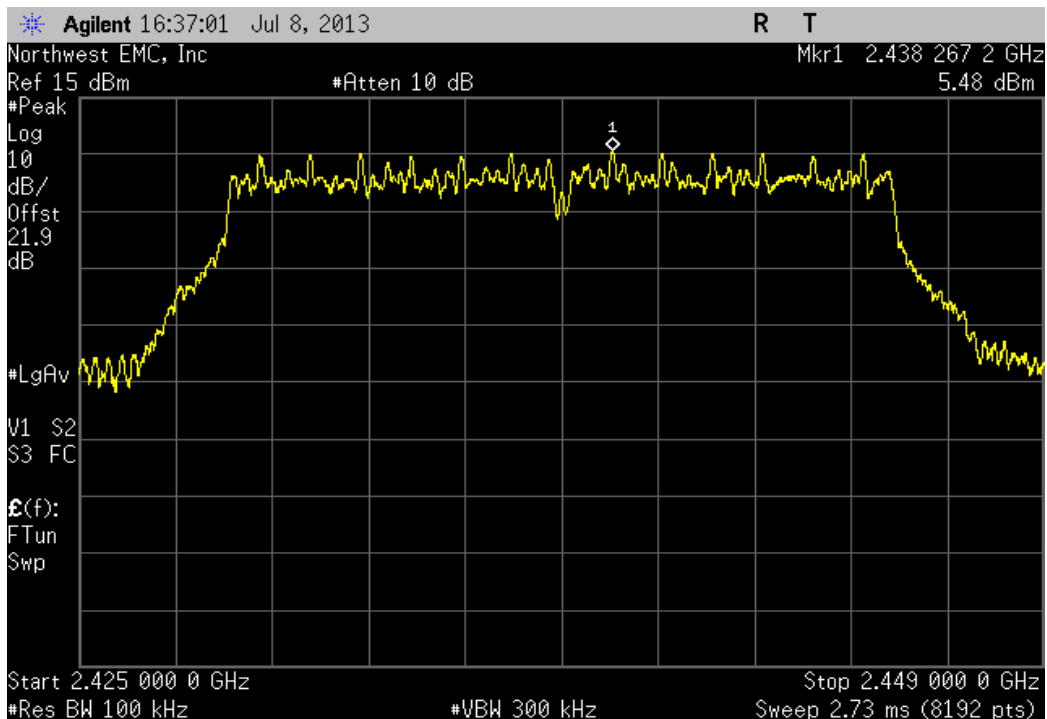
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-54.81 dBc	≤ -20 dBc	Pass



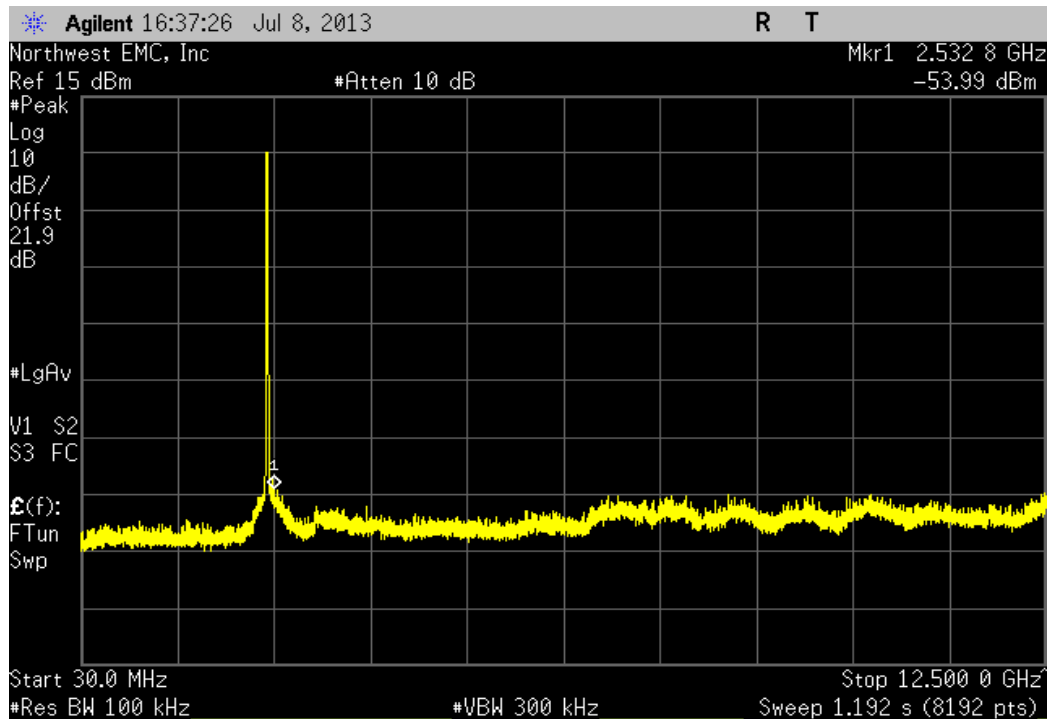
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.92 dBc	≤ -20 dBc	Pass	



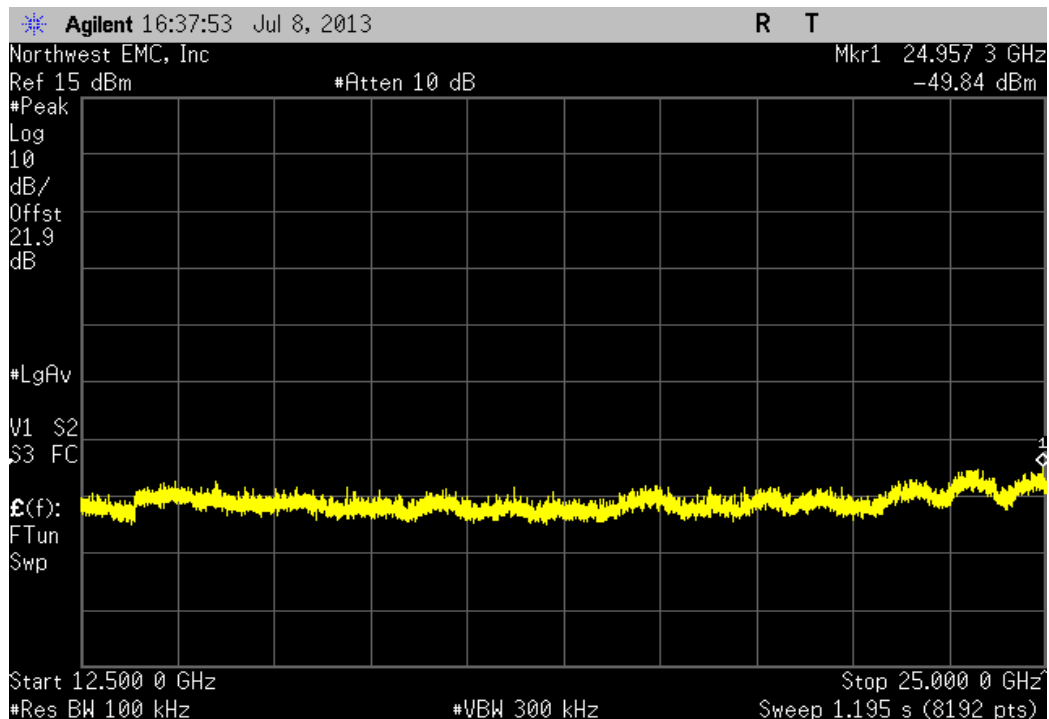
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



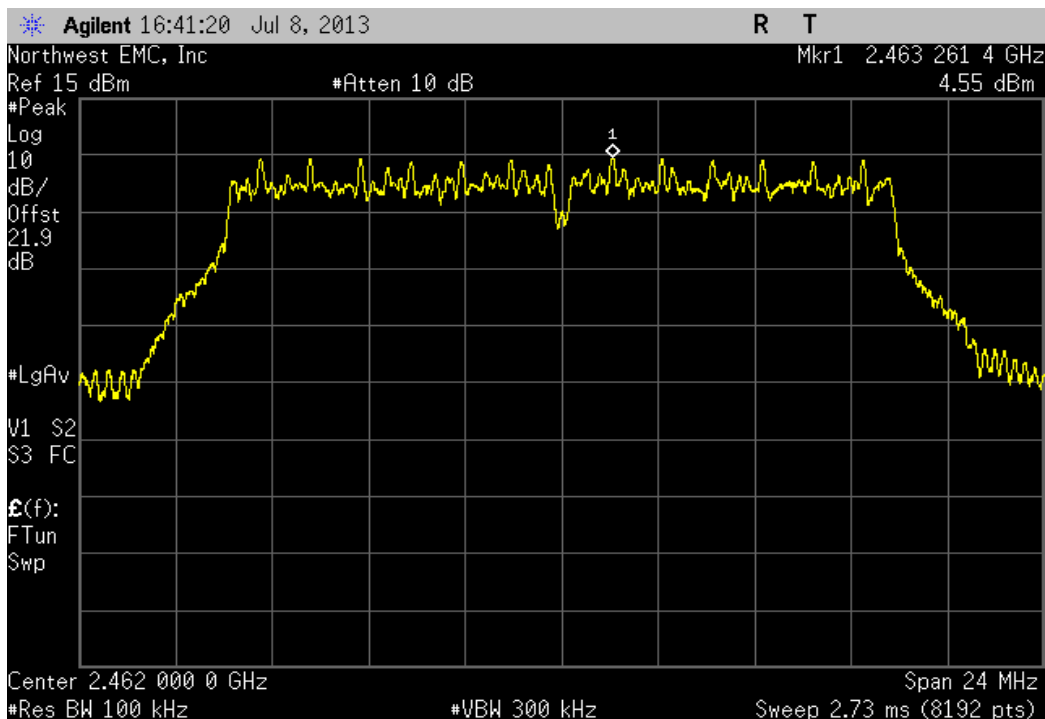
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-59.48 dBc	≤ -20 dBc	Pass	



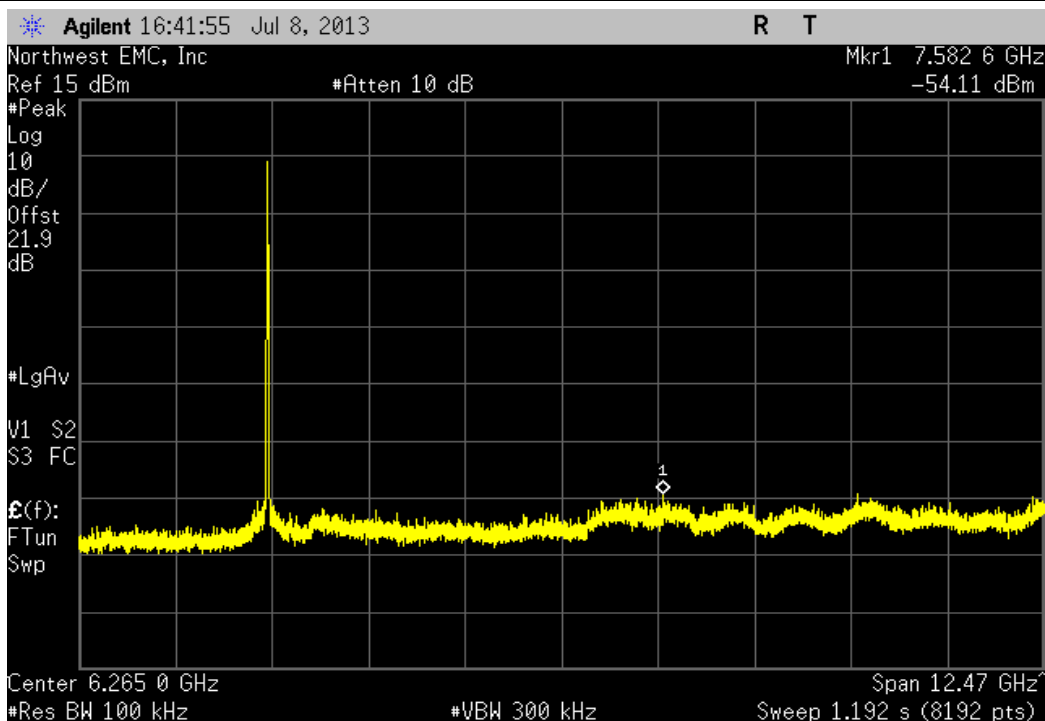
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-55.32 dBc	≤ -20 dBc	Pass	



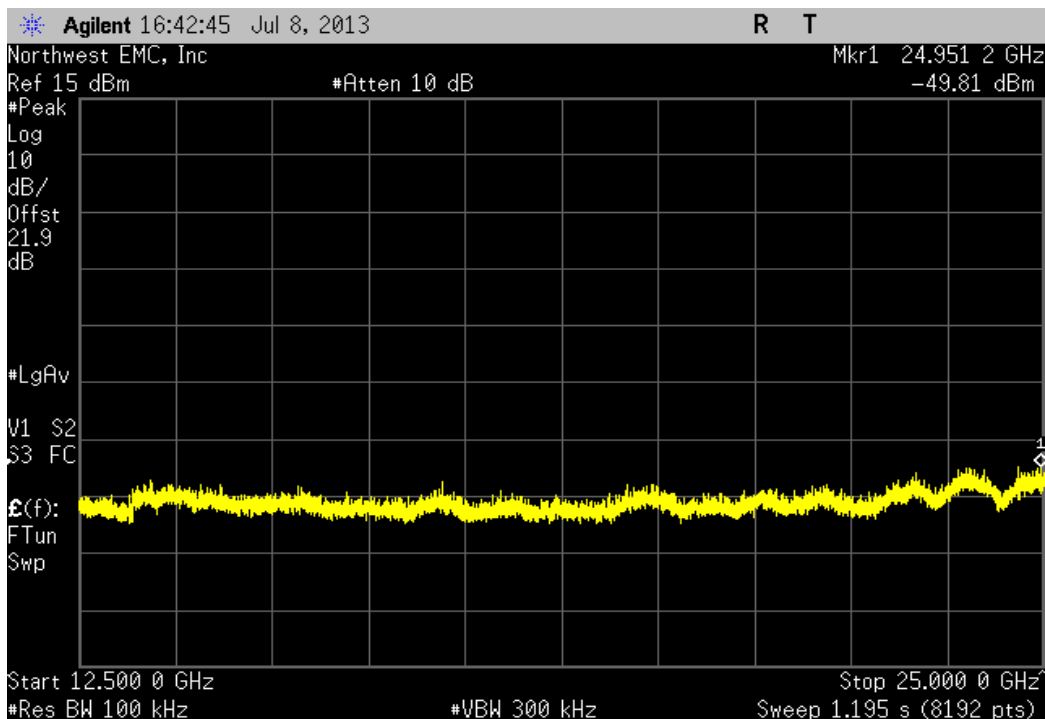
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



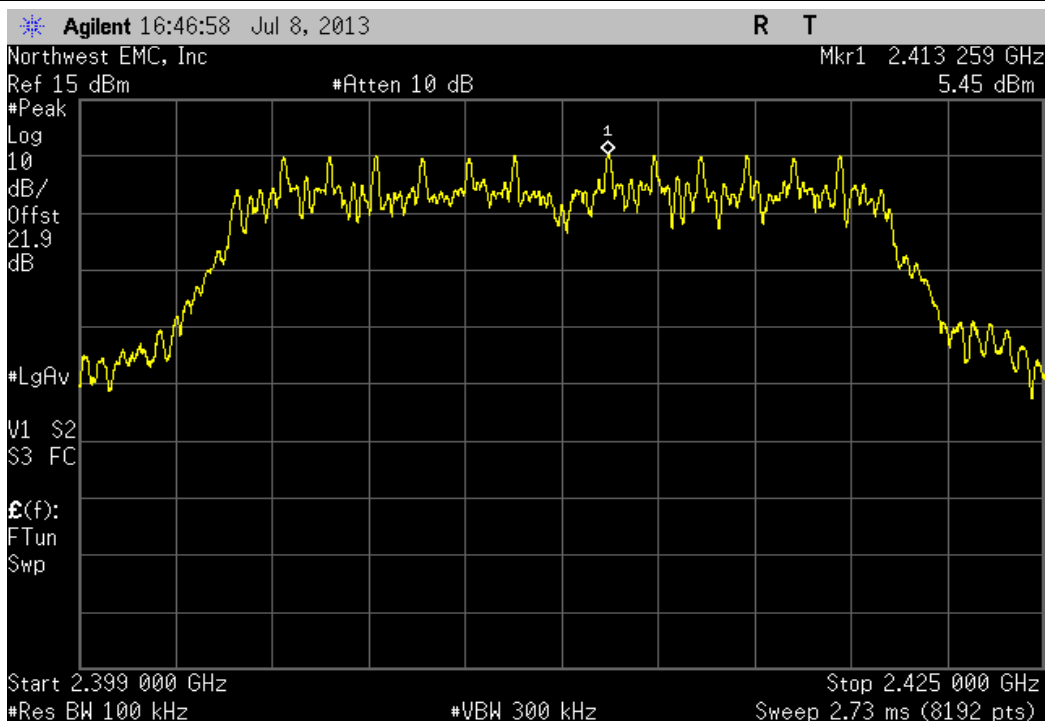
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.67 dBc	≤ -20 dBc	Pass



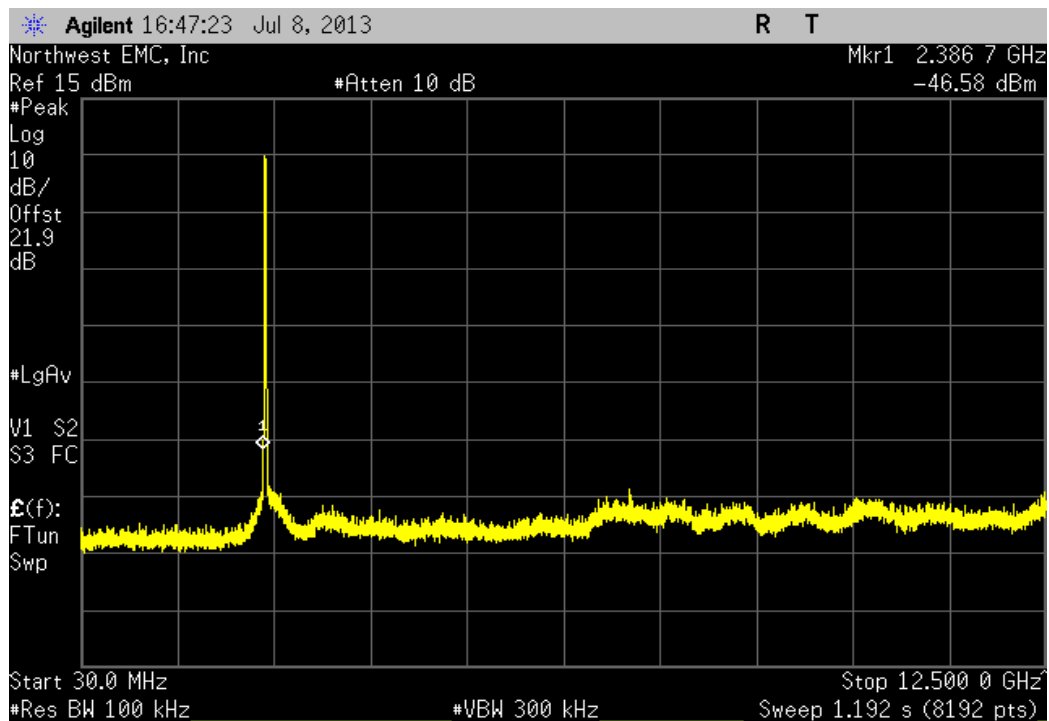
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.37 dBc	≤ -20 dBc	Pass



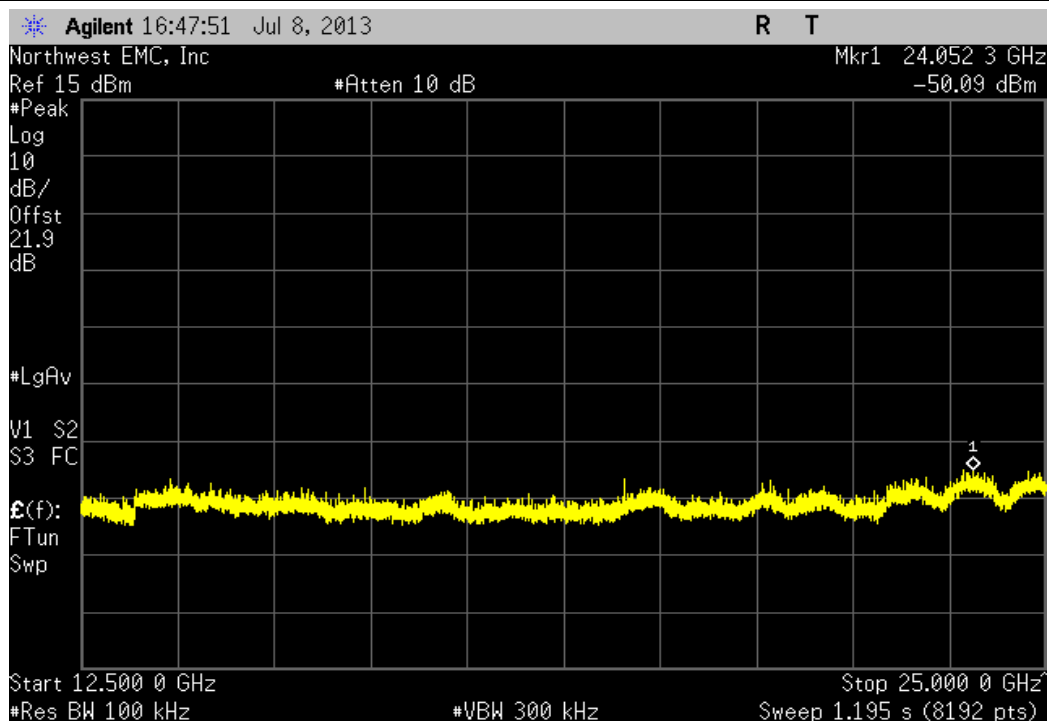
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



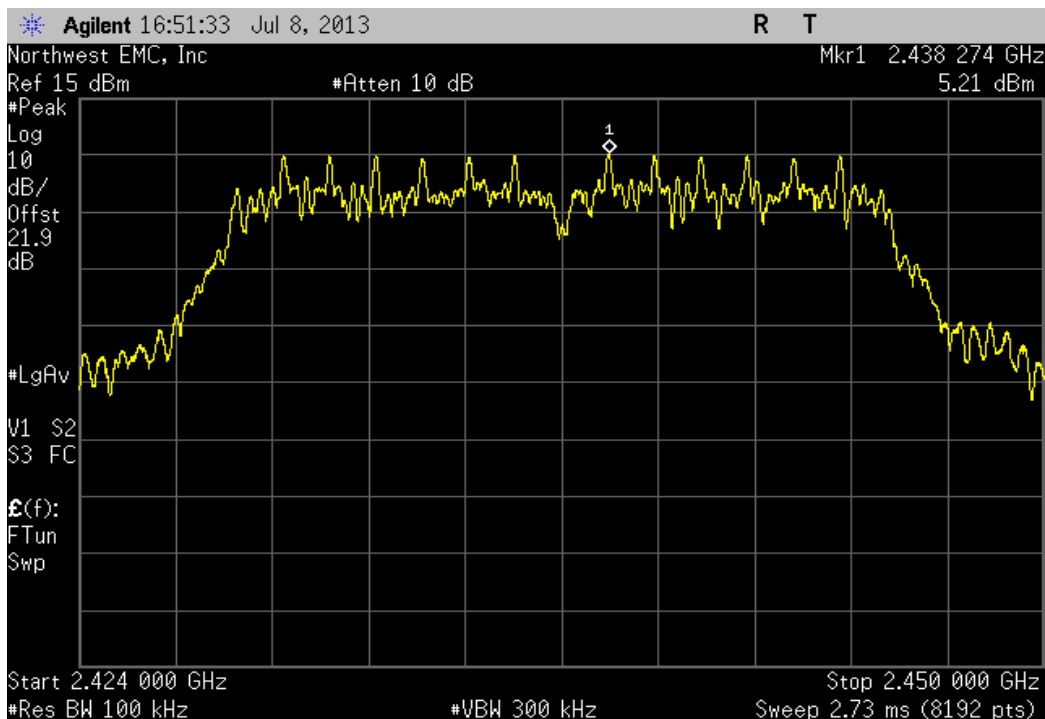
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-52.04 dBc	≤ -20 dBc	Pass	



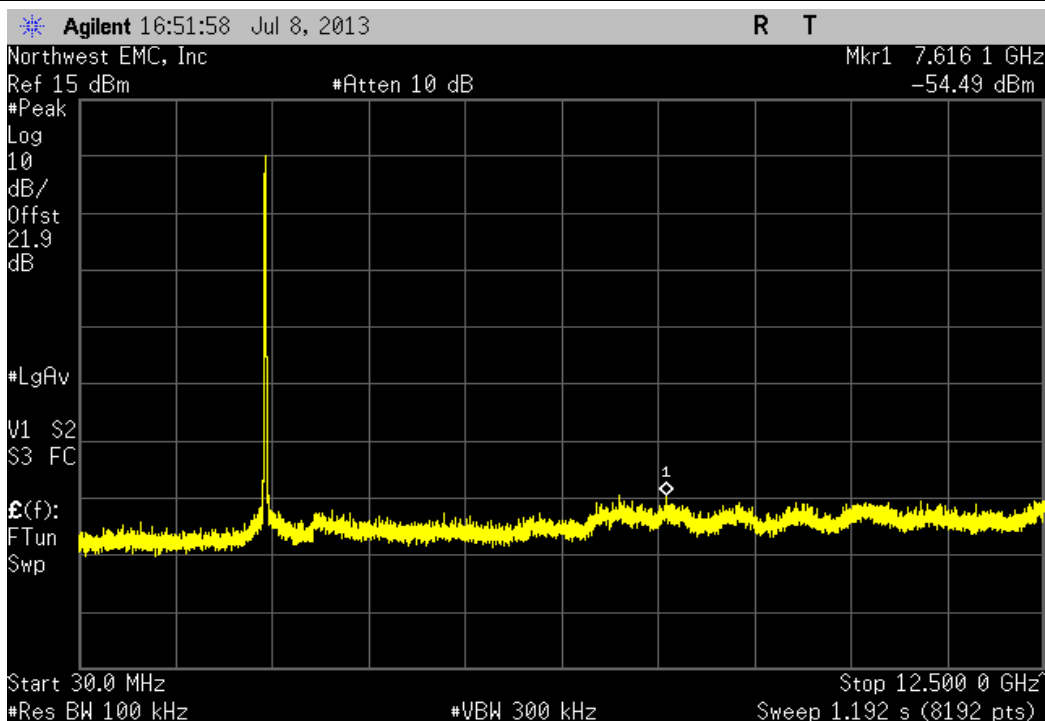
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-55.55 dBc	≤ -20 dBc	Pass	



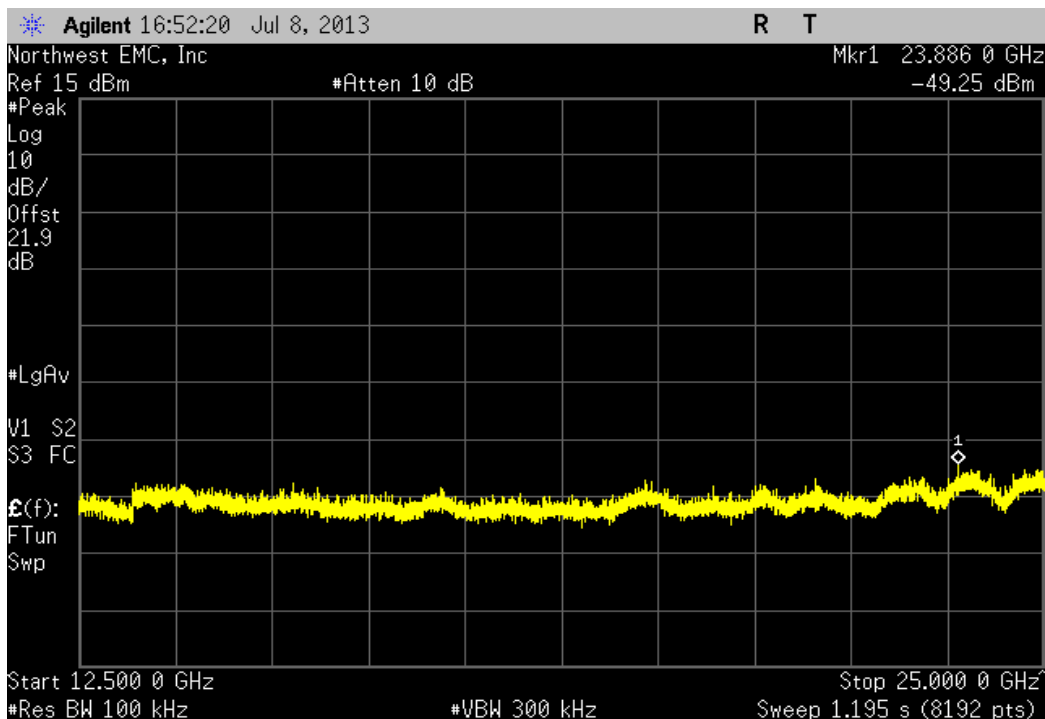
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



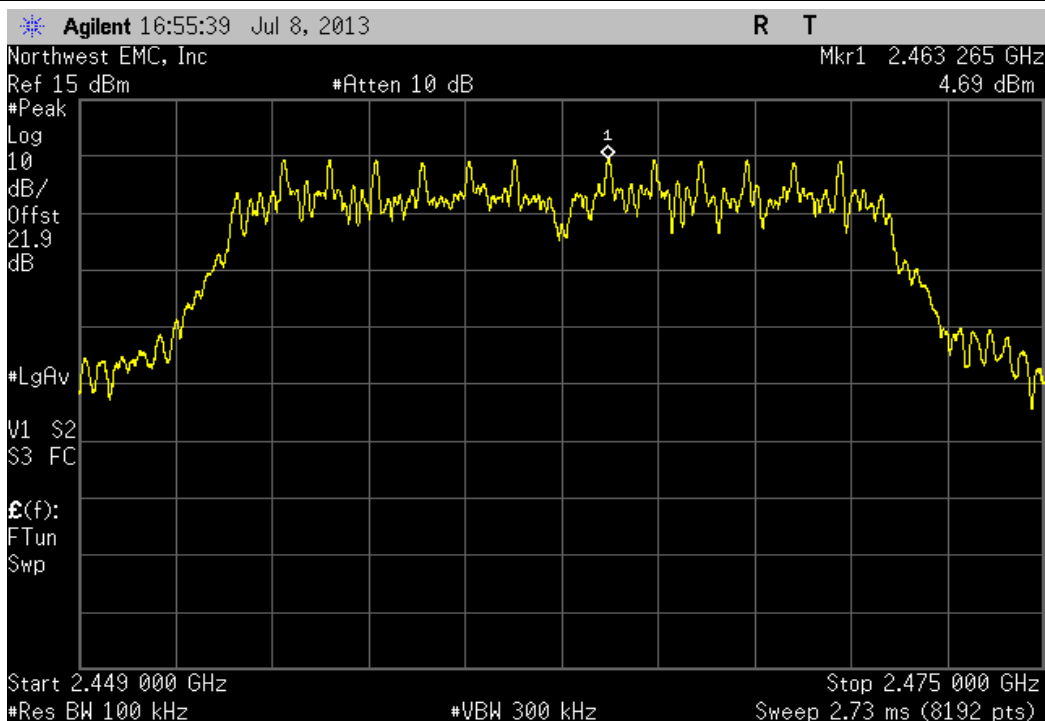
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-59.7 dBc	≤ -20 dBc	Pass



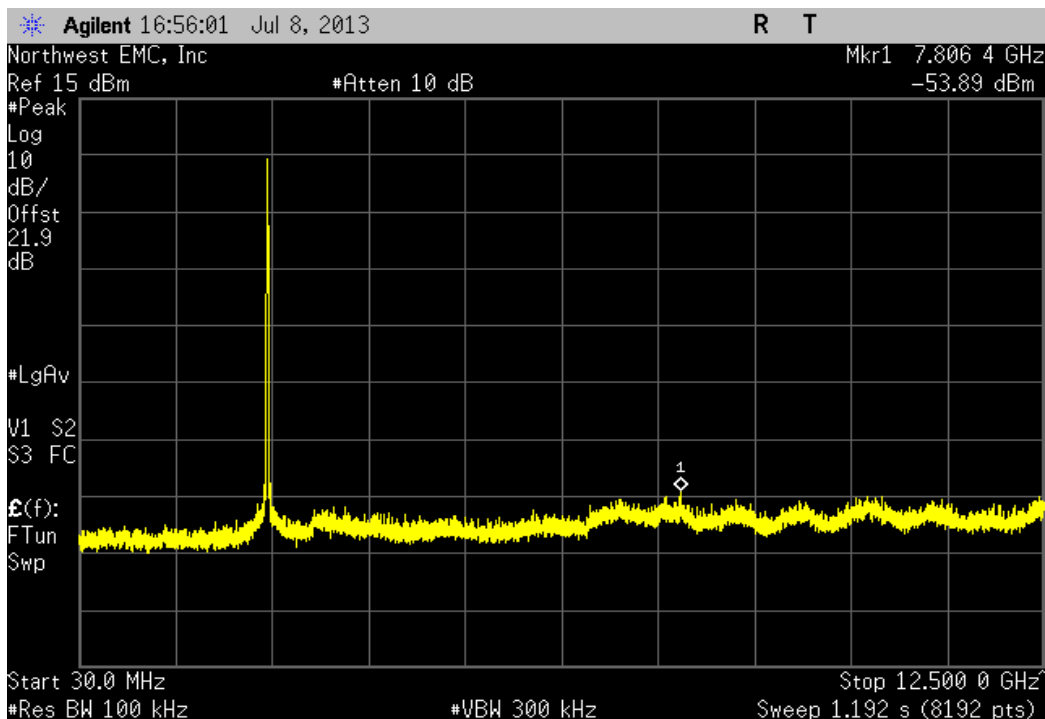
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.46 dBc	≤ -20 dBc	Pass	



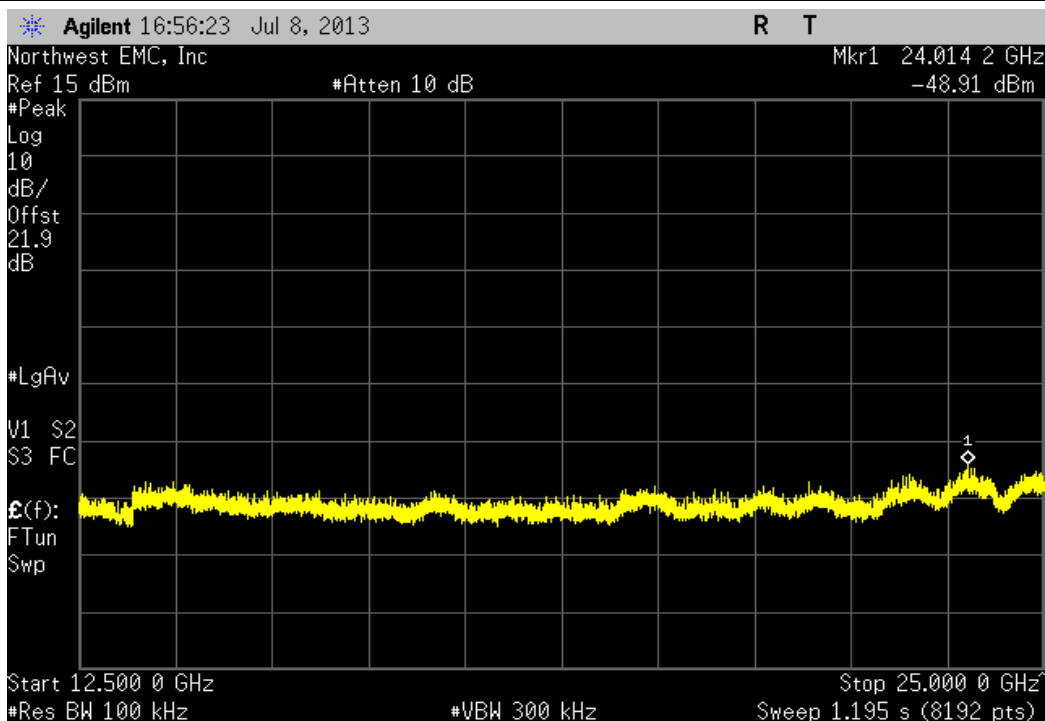
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



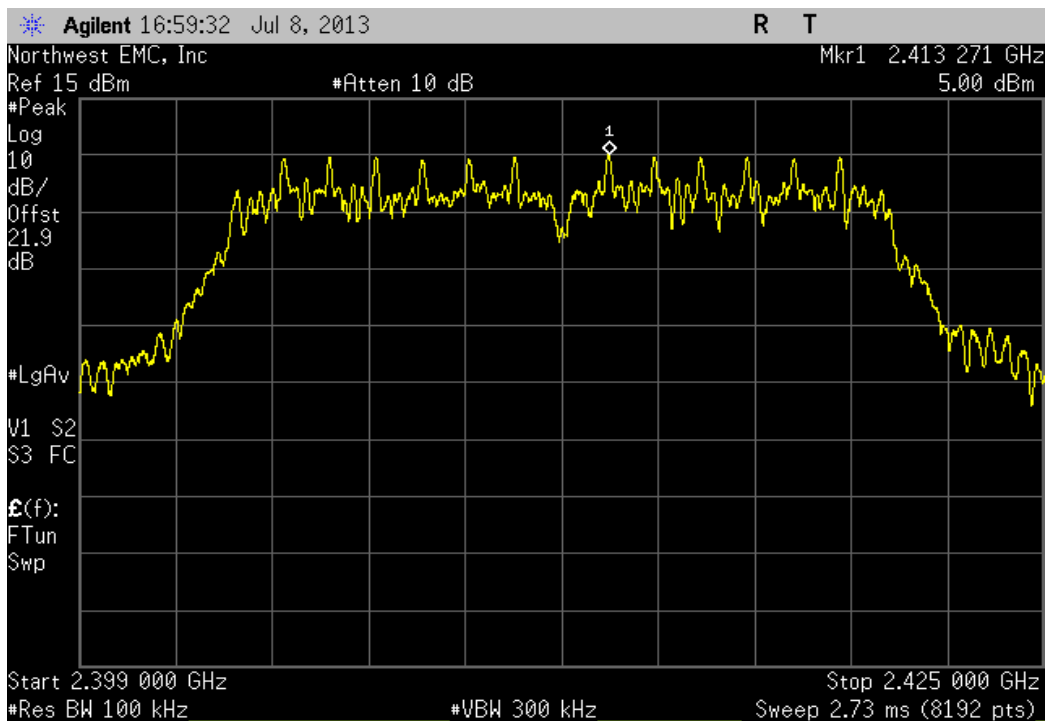
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.58 dBc	≤ -20 dBc	Pass	



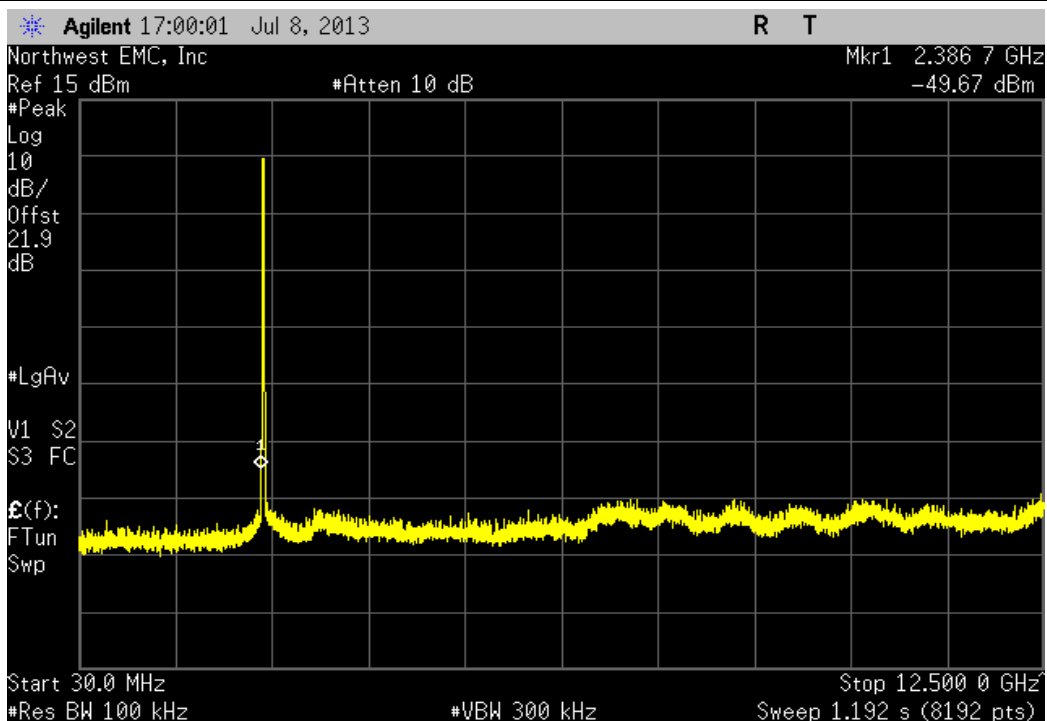
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.6 dBc	≤ -20 dBc	Pass	



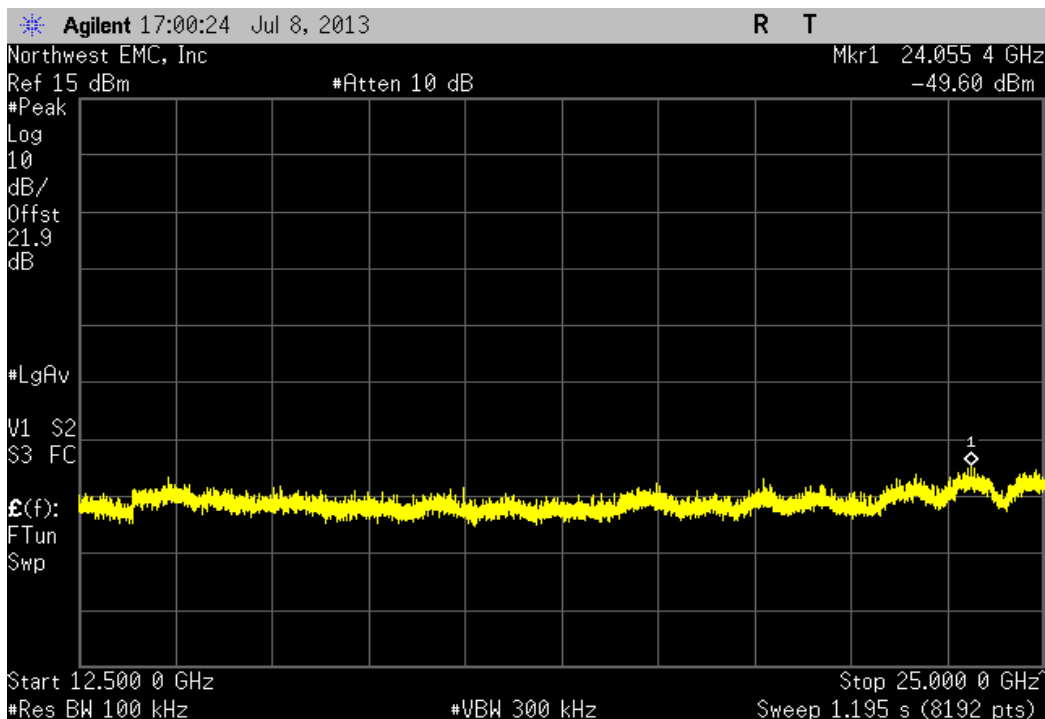
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



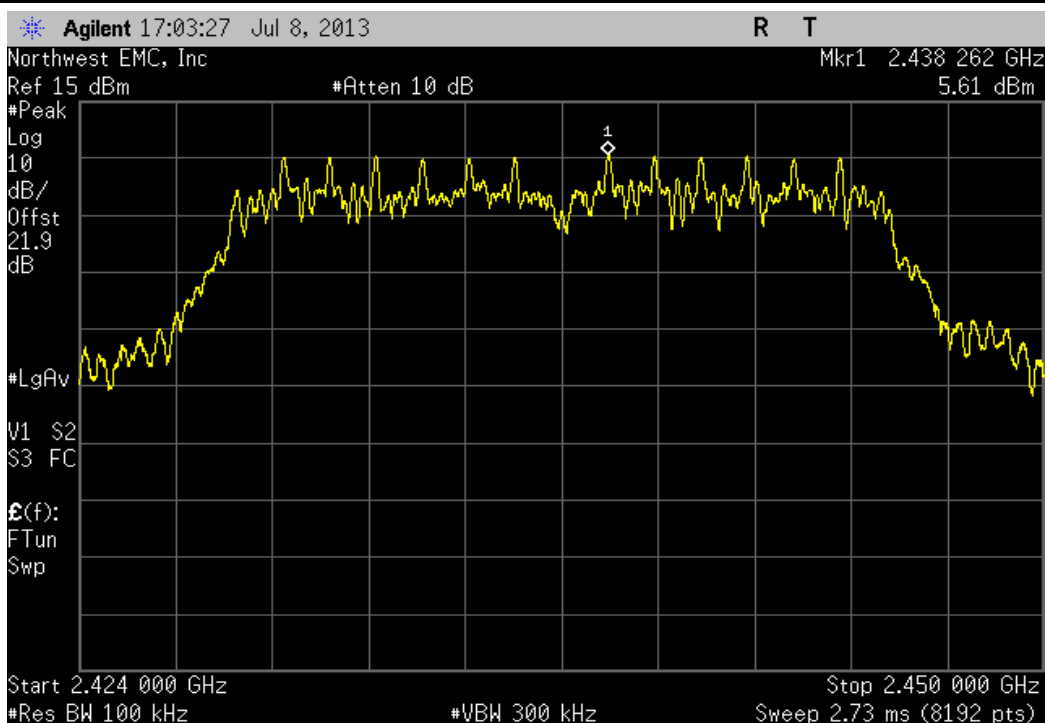
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-54.67 dBc	≤ -20 dBc	Pass



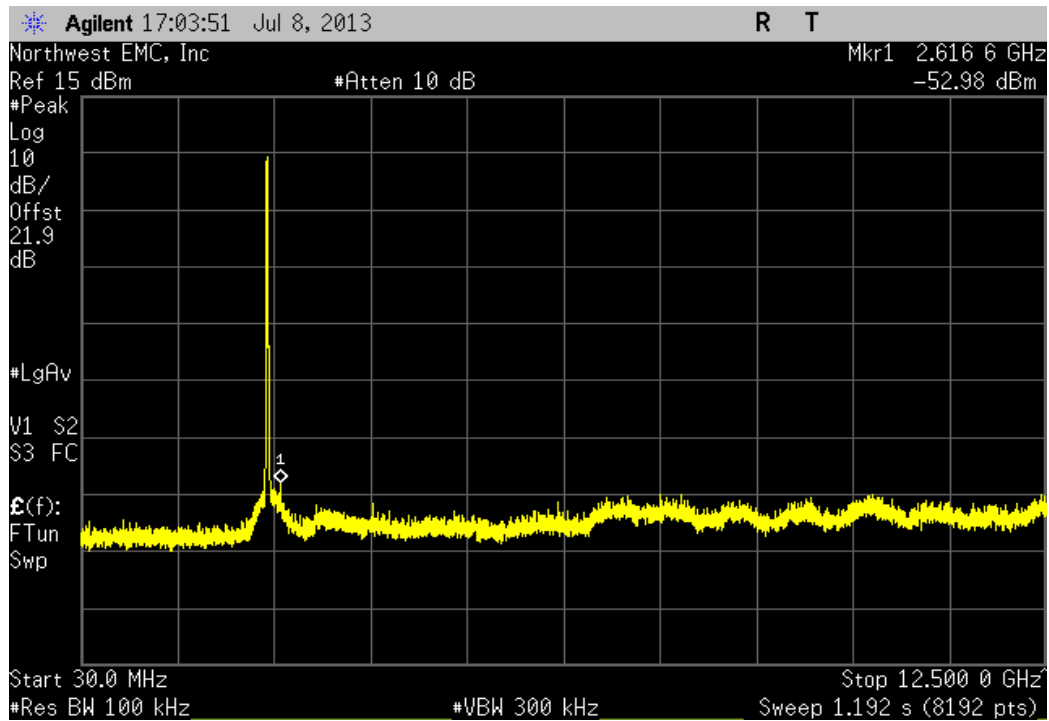
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.6 dBc	≤ -20 dBc	Pass



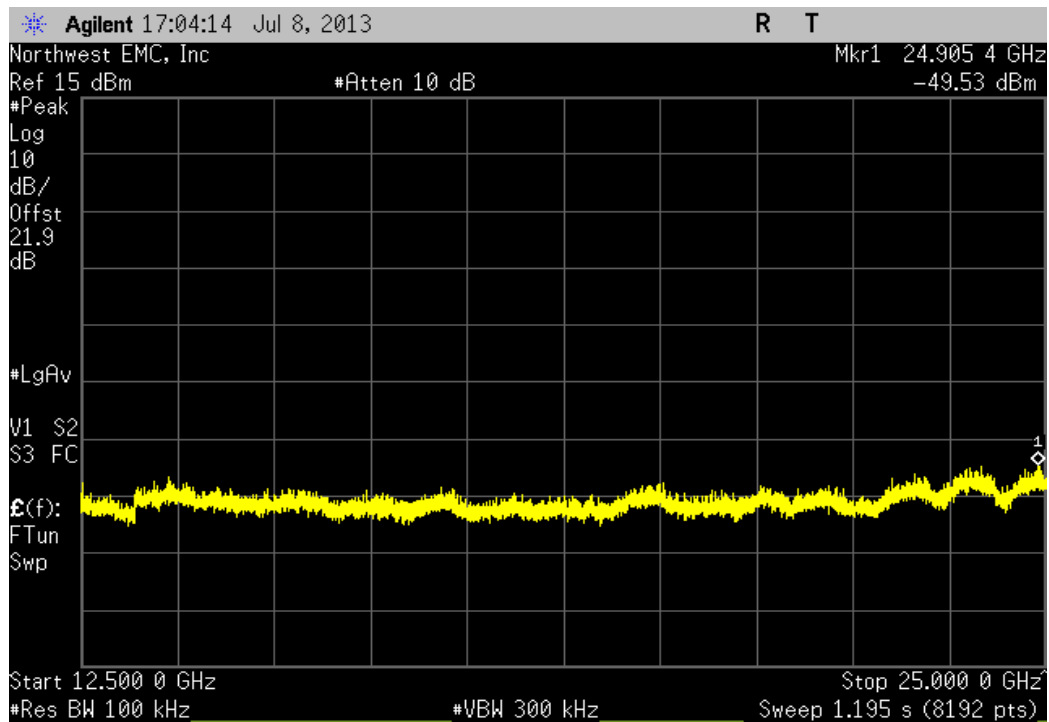
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



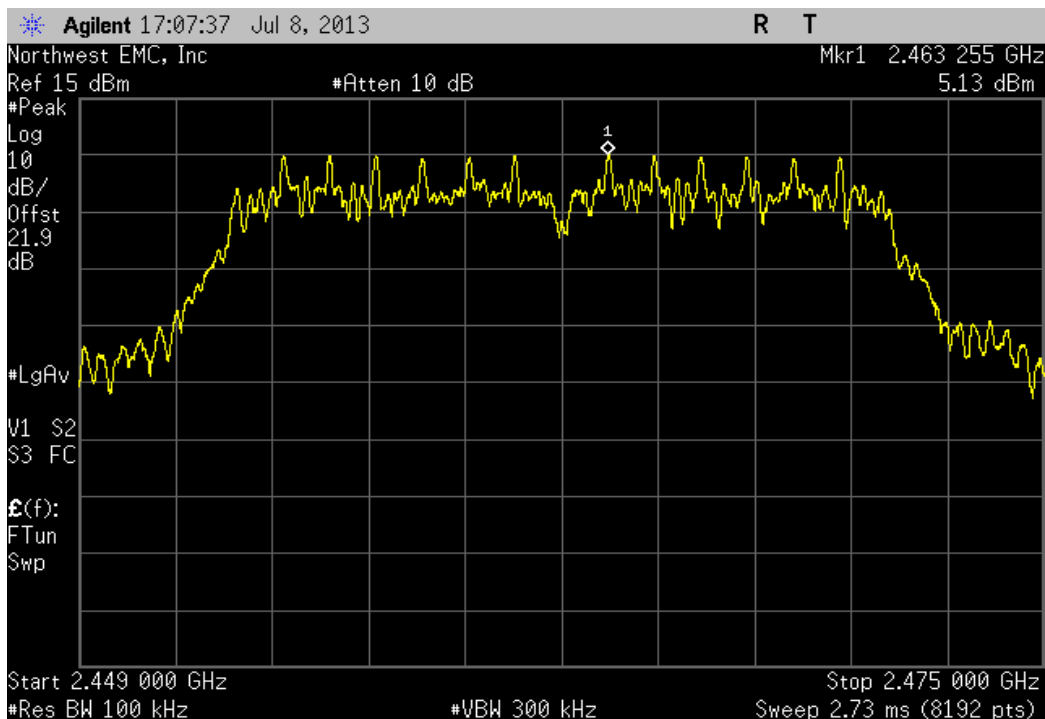
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.59 dBc	≤ -20 dBc	Pass	



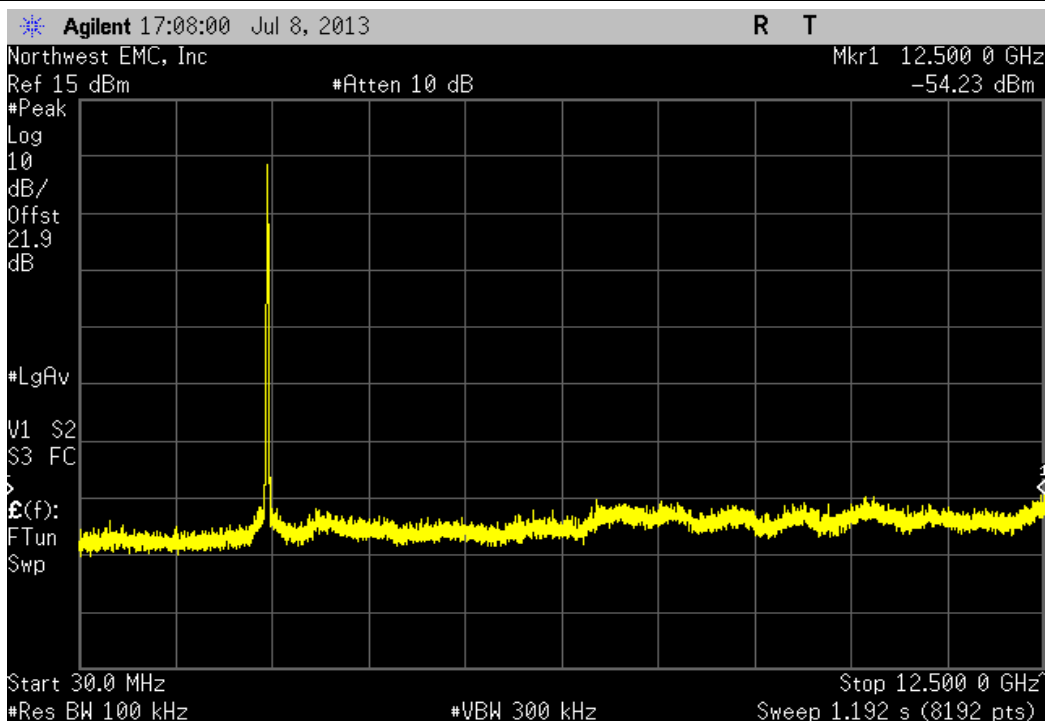
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-55.14 dBc	≤ -20 dBc	Pass	



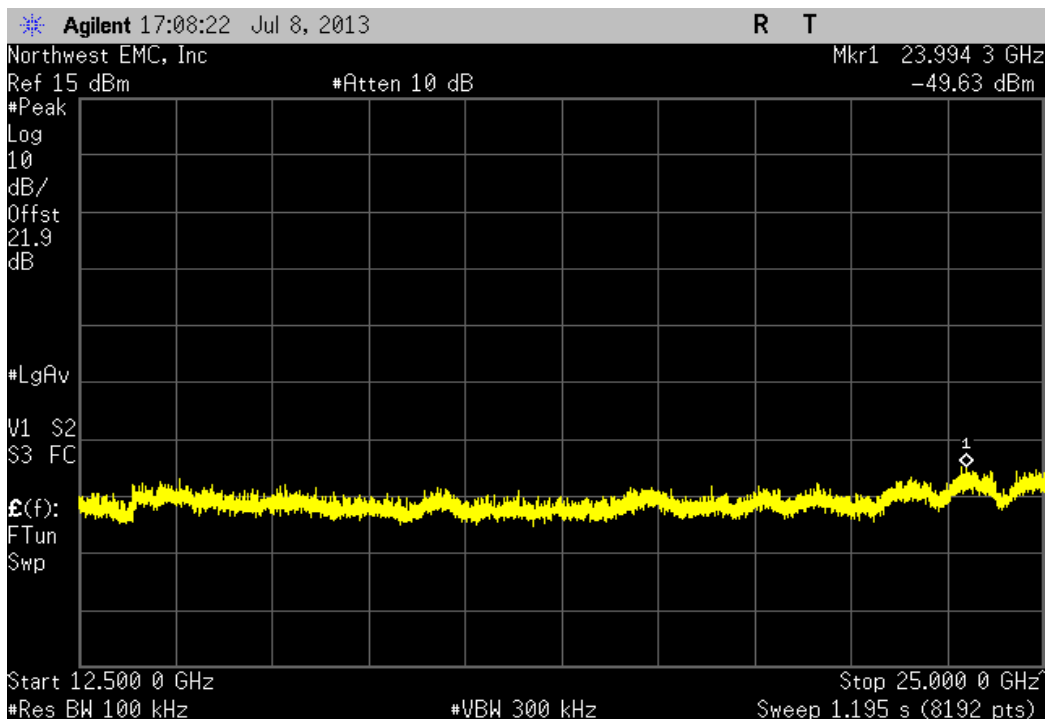
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



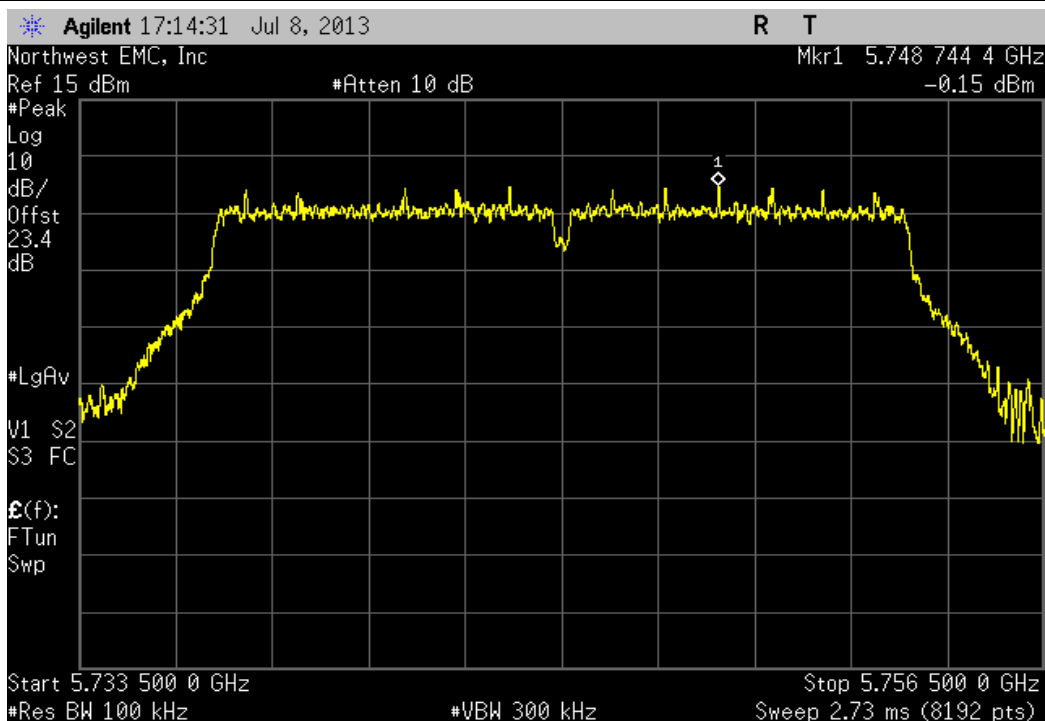
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-59.36 dBc	≤ -20 dBc	Pass



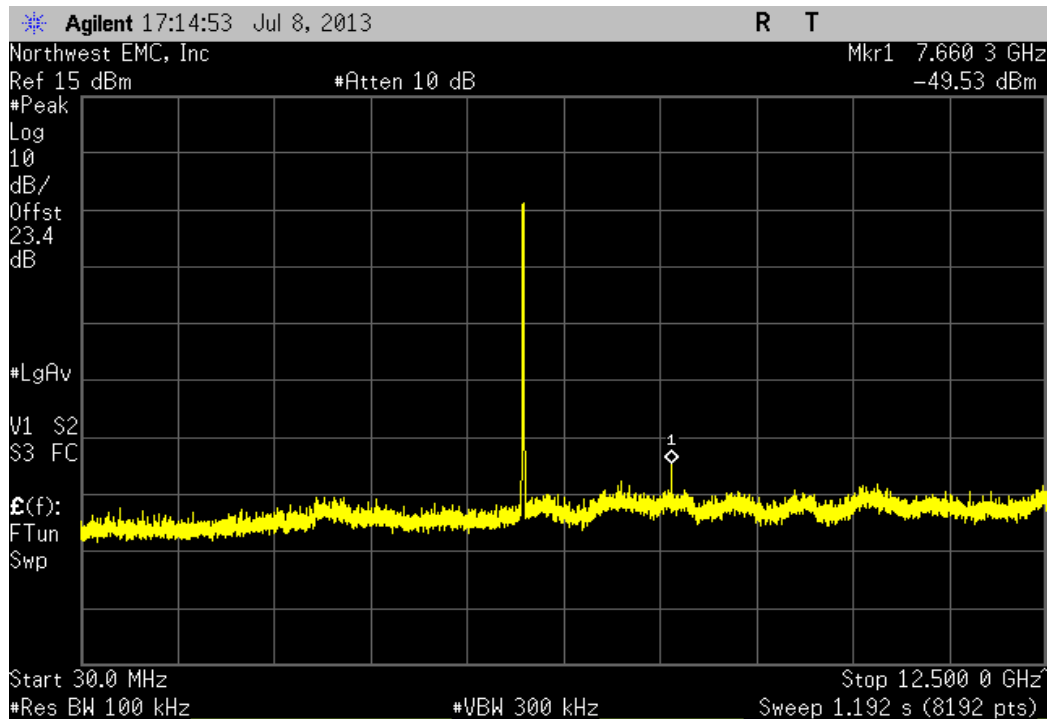
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.76 dBc	≤ -20 dBc	Pass



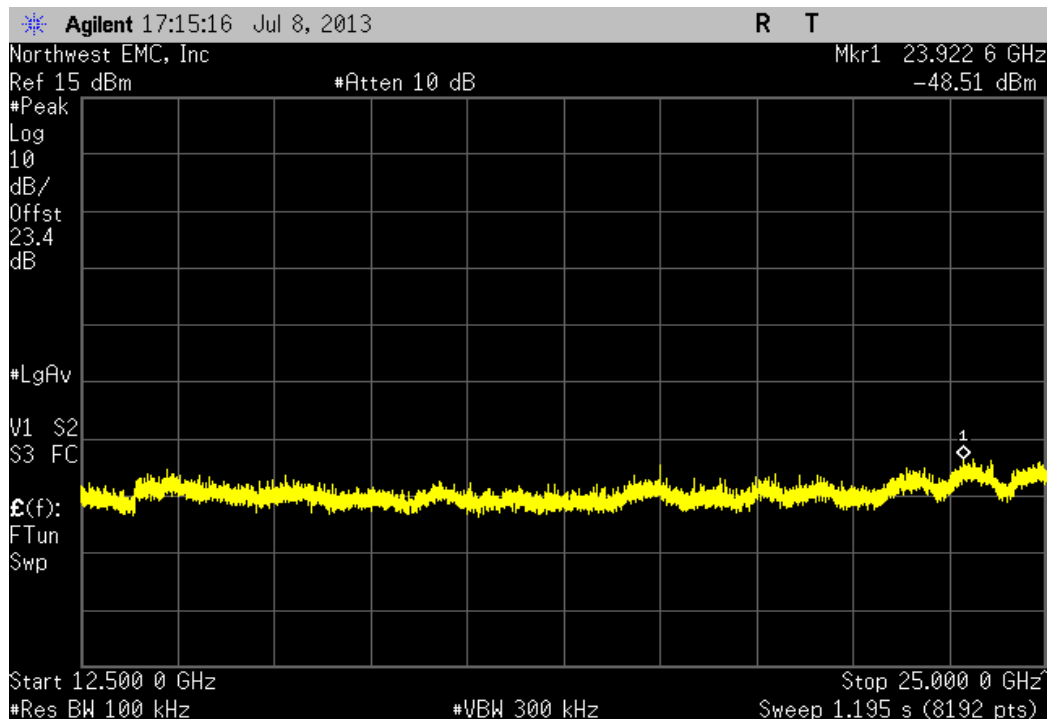
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



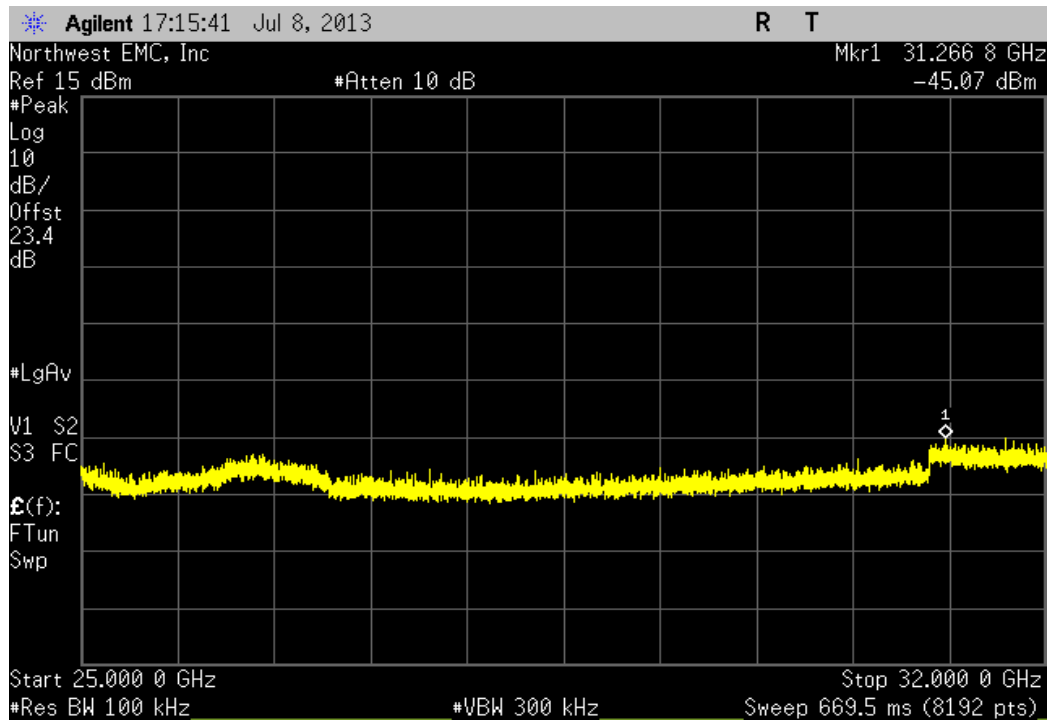
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.38 dBc	≤ -20 dBc	Pass	



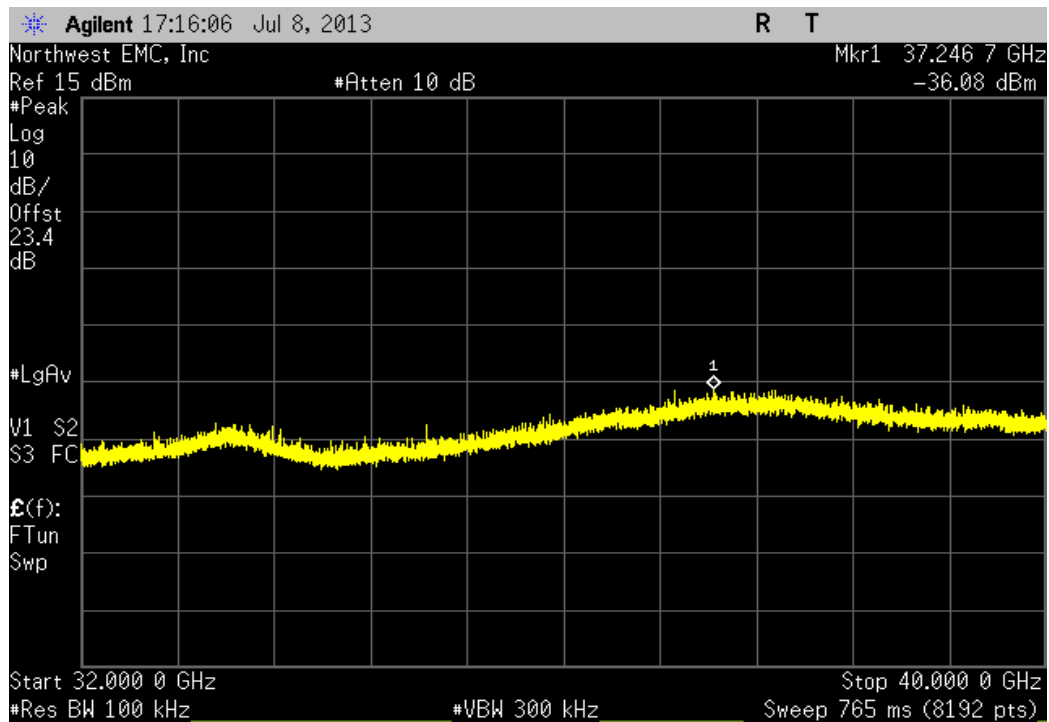
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.36 dBc	≤ -20 dBc	Pass	



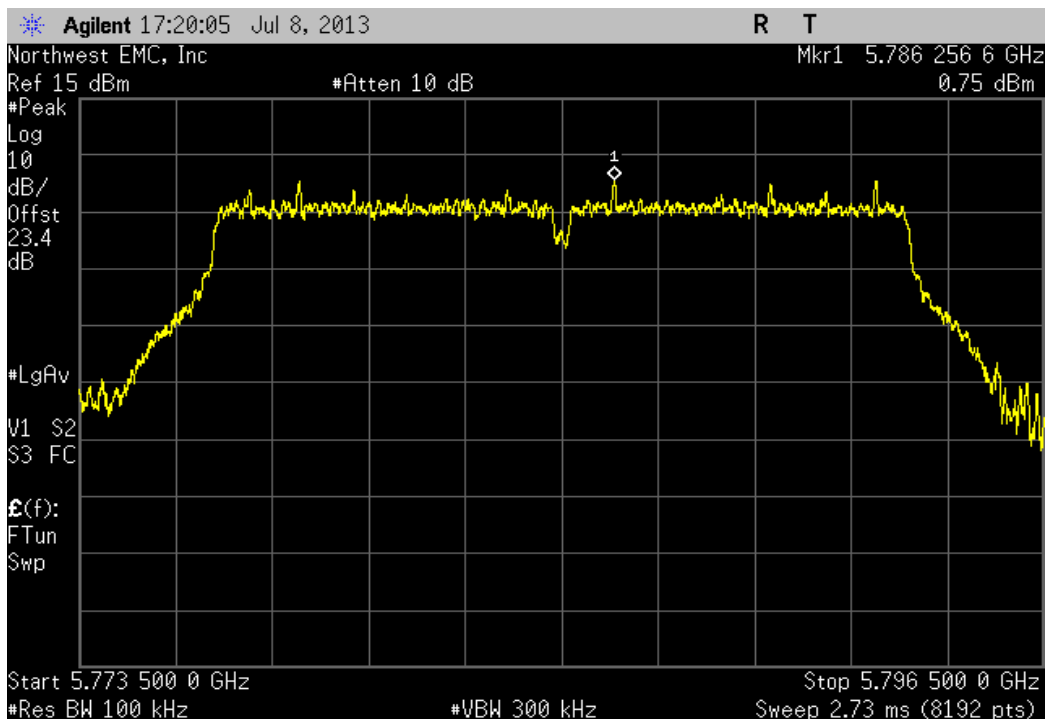
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-44.92 dBc	≤ -20 dBc	Pass



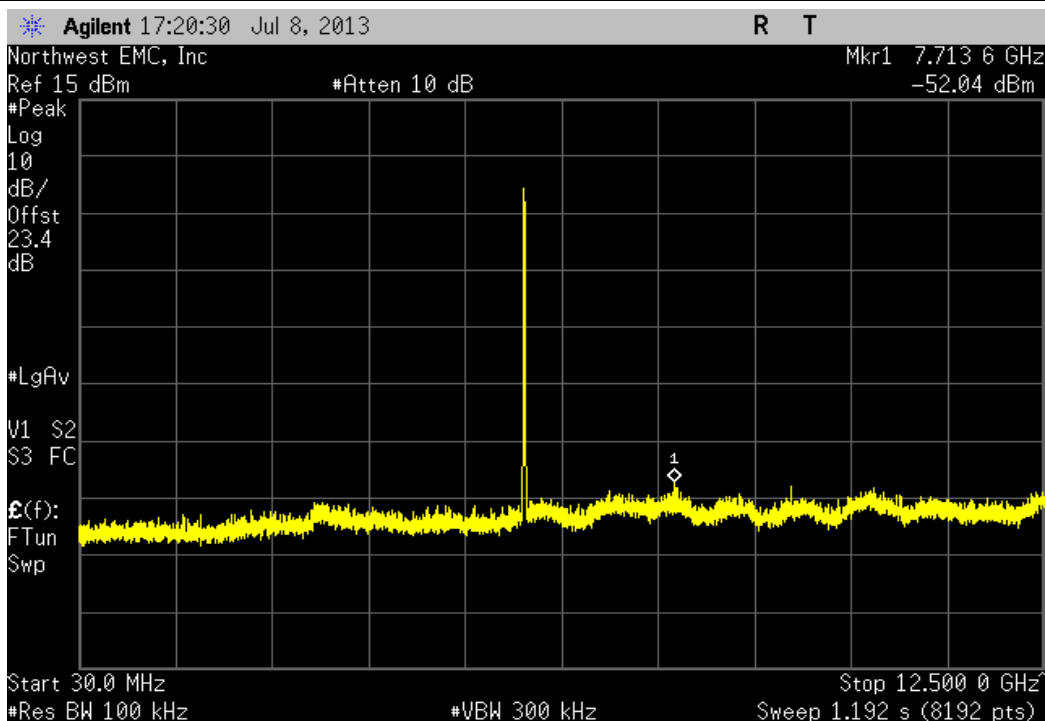
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-35.93 dBc	≤ -20 dBc	Pass



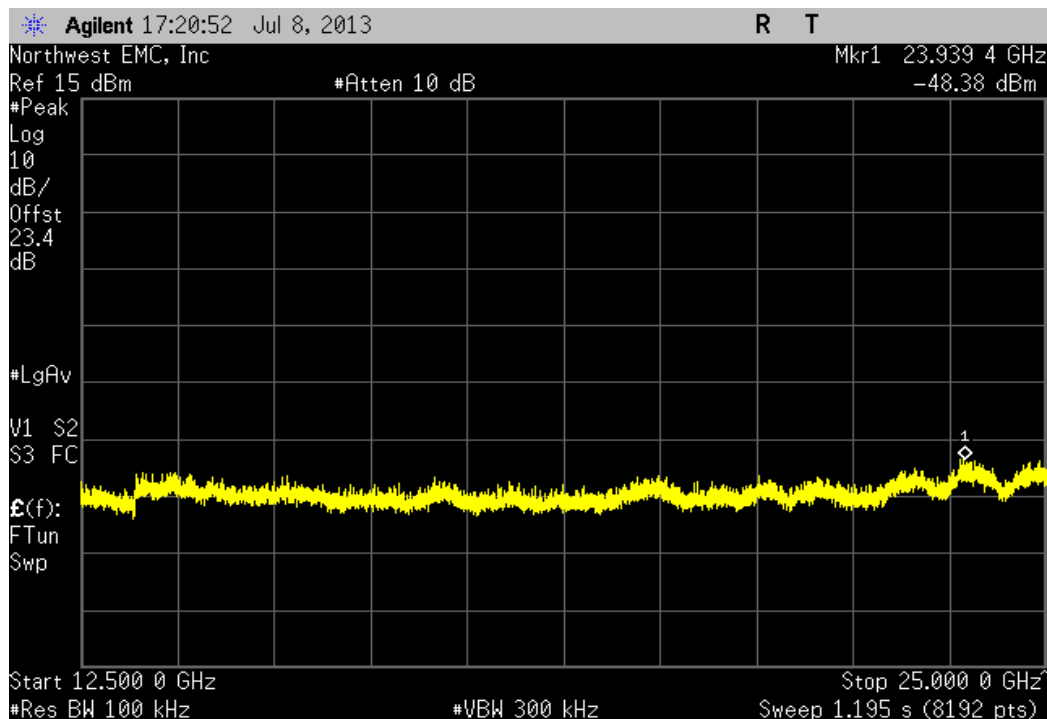
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



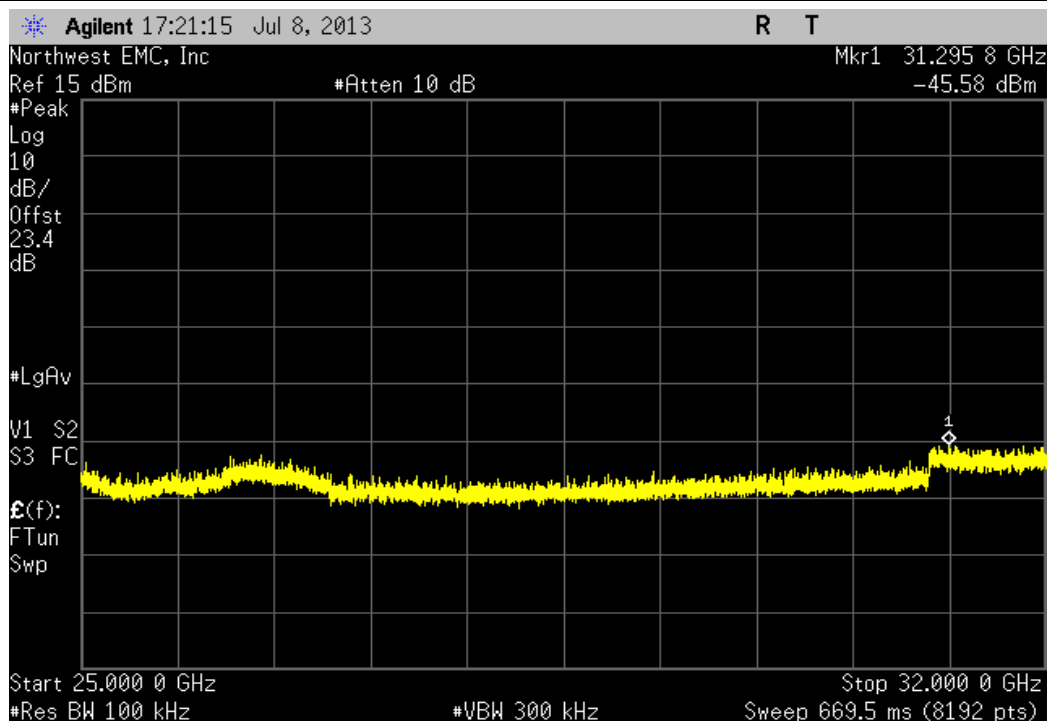
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.79 dBc	≤ -20 dBc	Pass



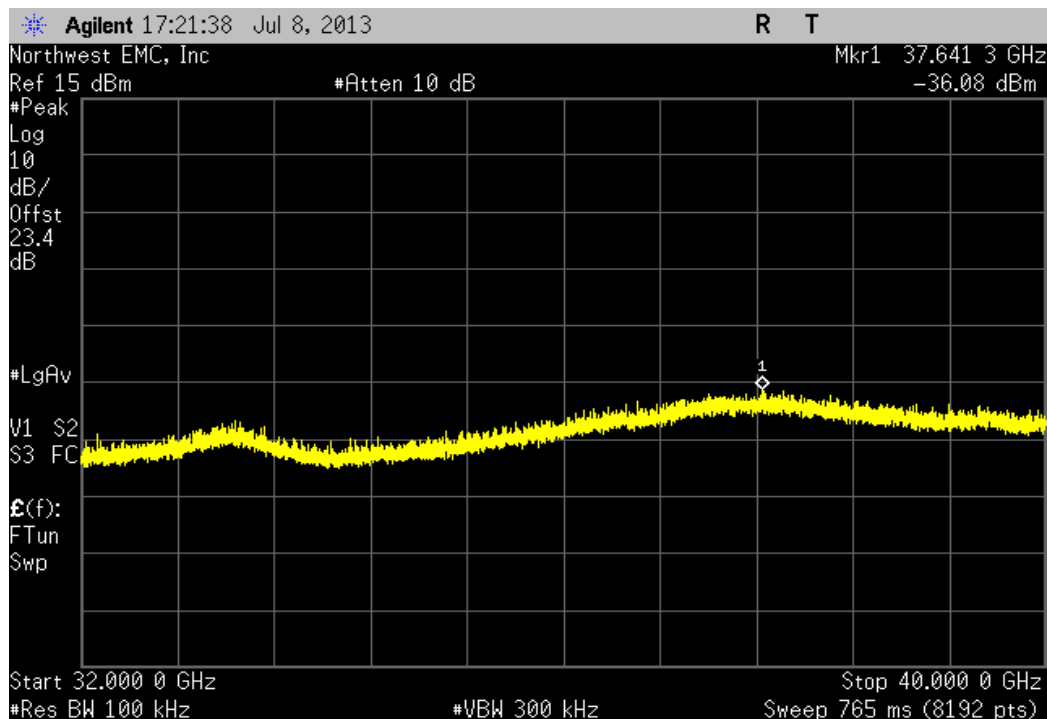
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-49.13 dBc	≤ -20 dBc	Pass



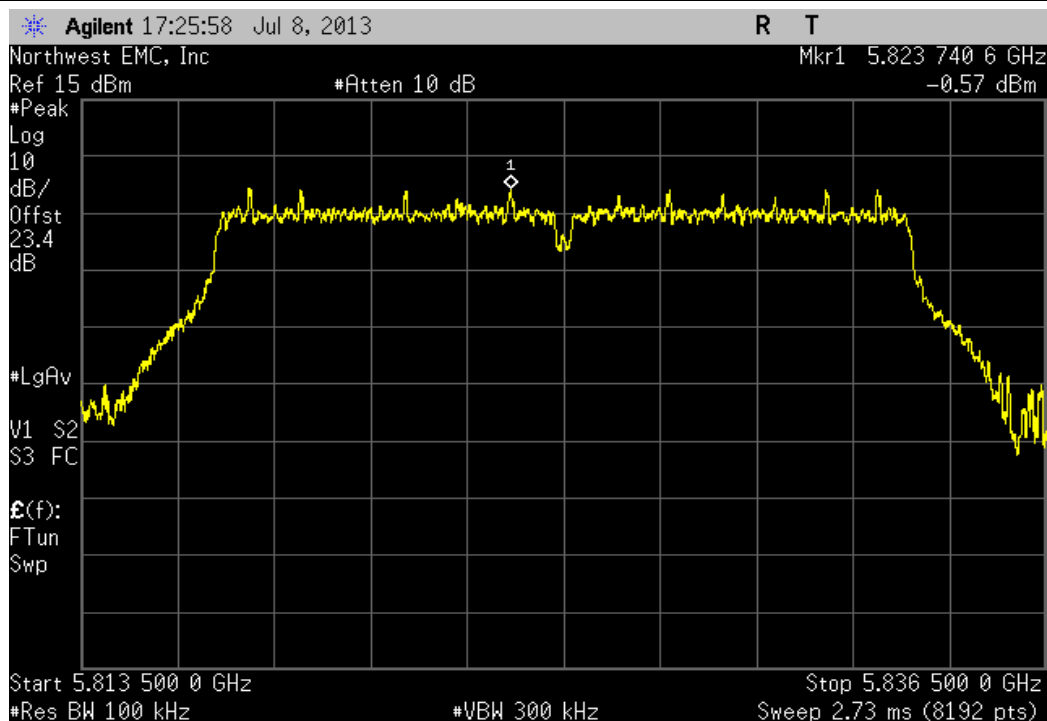
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-46.33 dBc	≤ -20 dBc	Pass



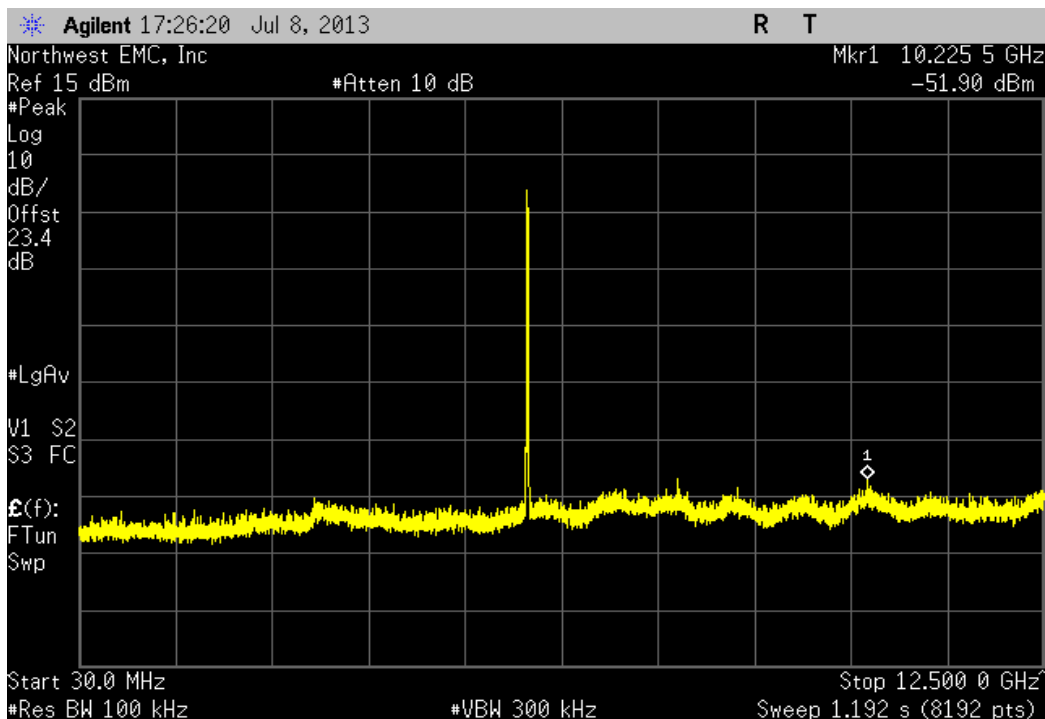
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz			
Frequency Range		Value	Limit
32 GHz - 40 GHz		-36.83 dBc	≤ -20 dBc
			Pass



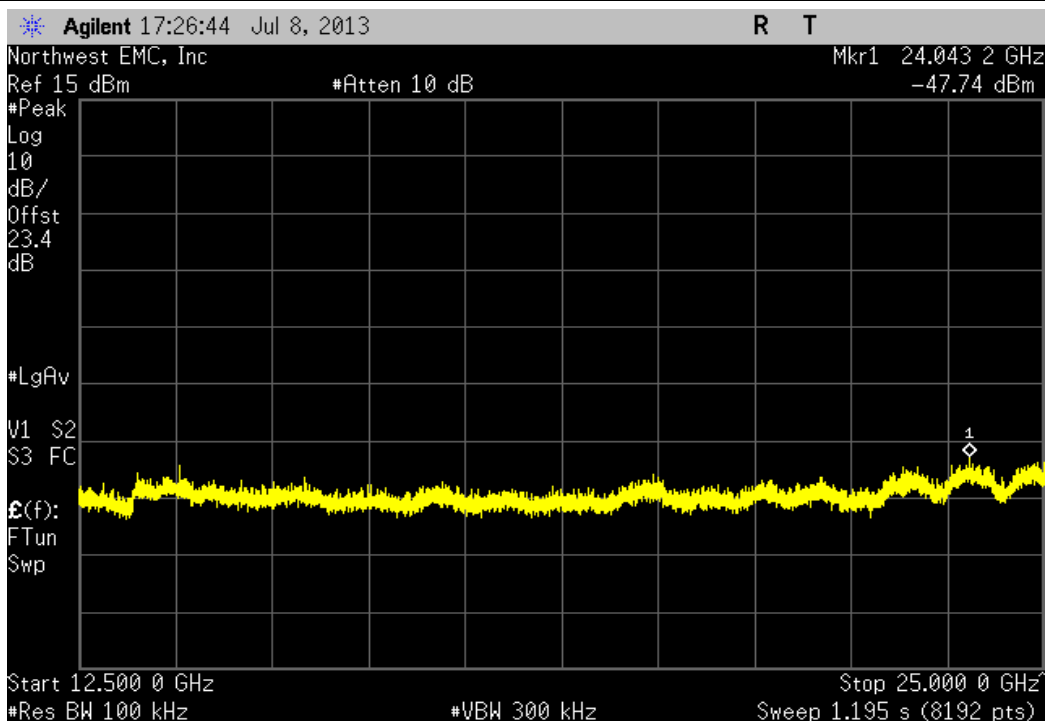
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz			
Frequency Range		Value	Limit
Fundamental		N/A	N/A
			N/A



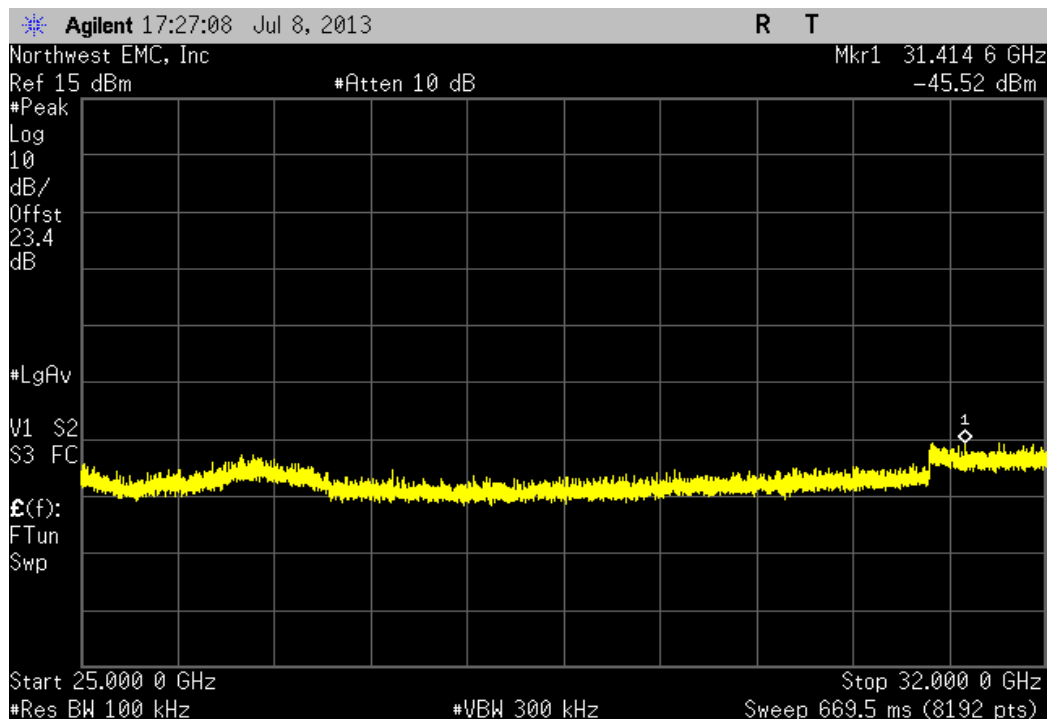
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.33 dBc	≤ -20 dBc	Pass	



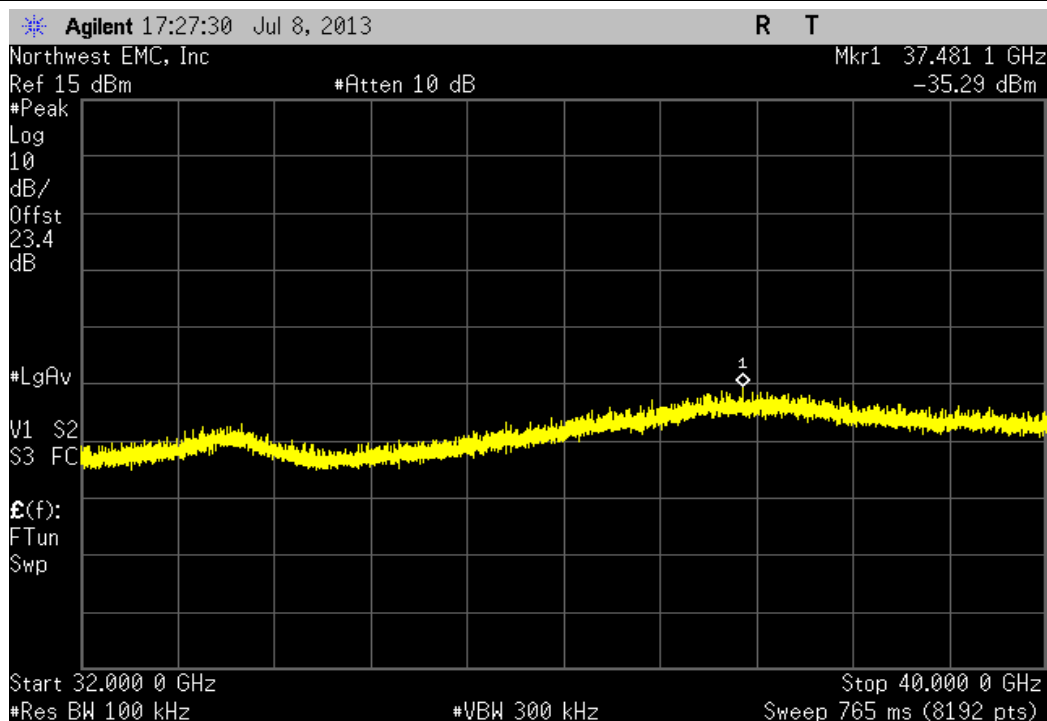
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.16 dBc	≤ -20 dBc	Pass	



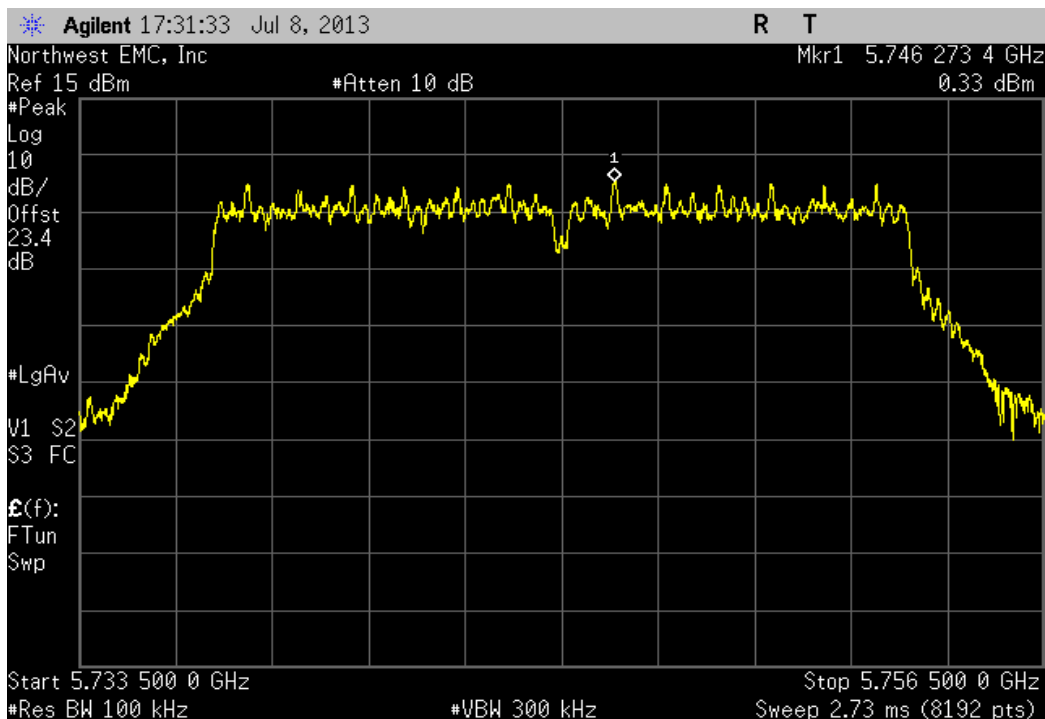
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-44.95 dBc	≤ -20 dBc	Pass



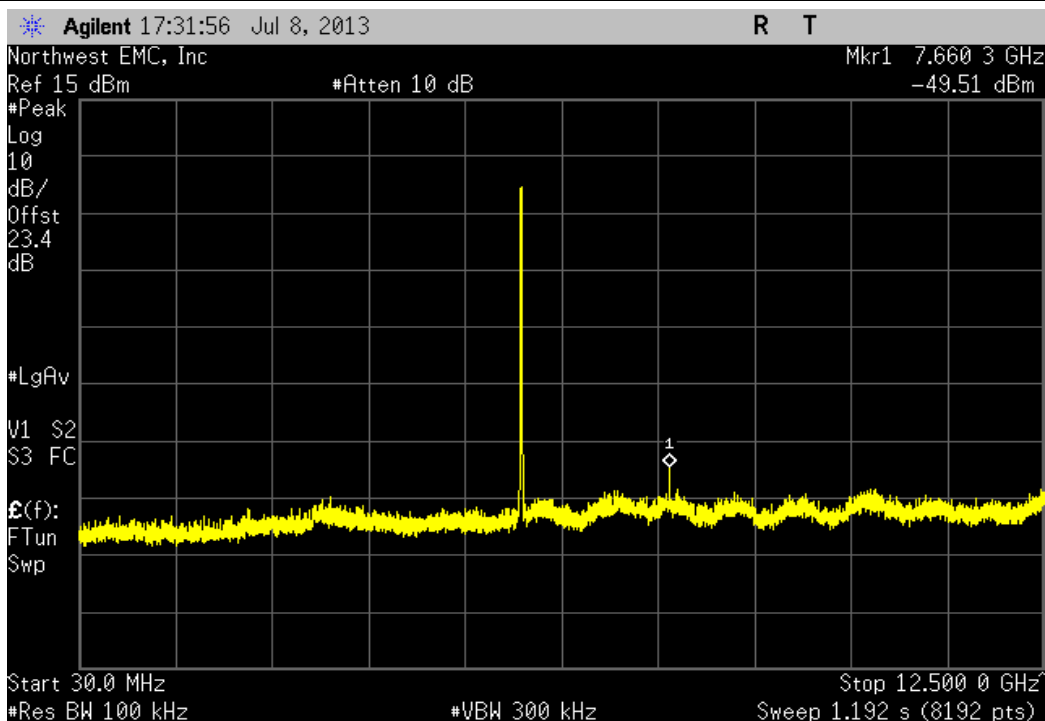
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.72 dBc	≤ -20 dBc	Pass



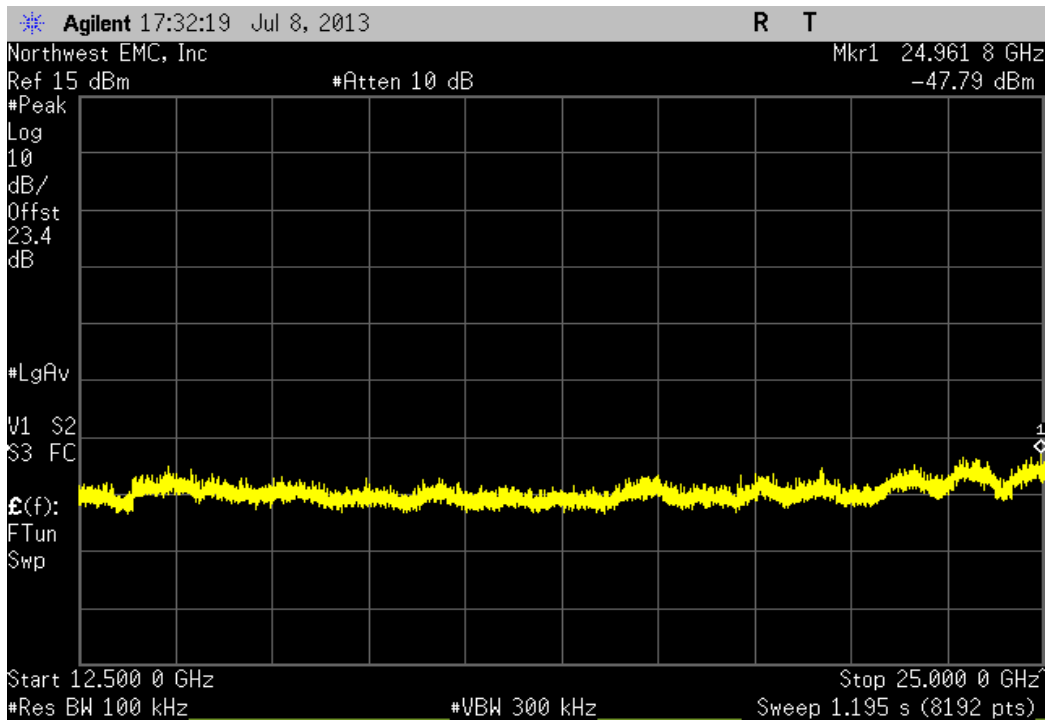
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



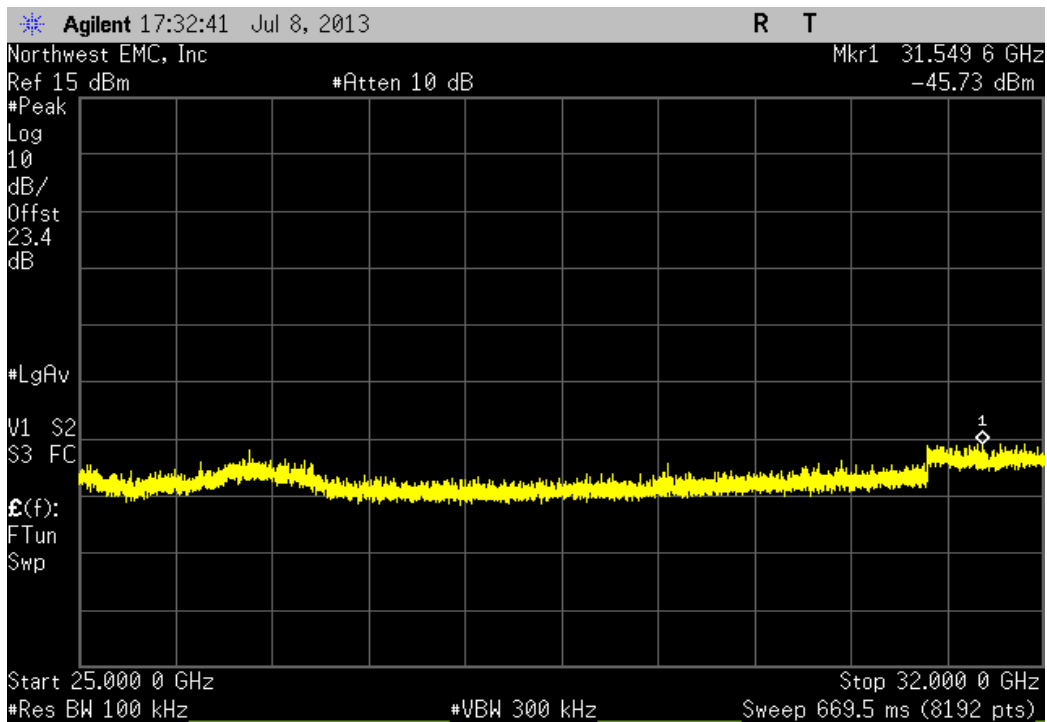
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-49.84 dBc	≤ -20 dBc	Pass



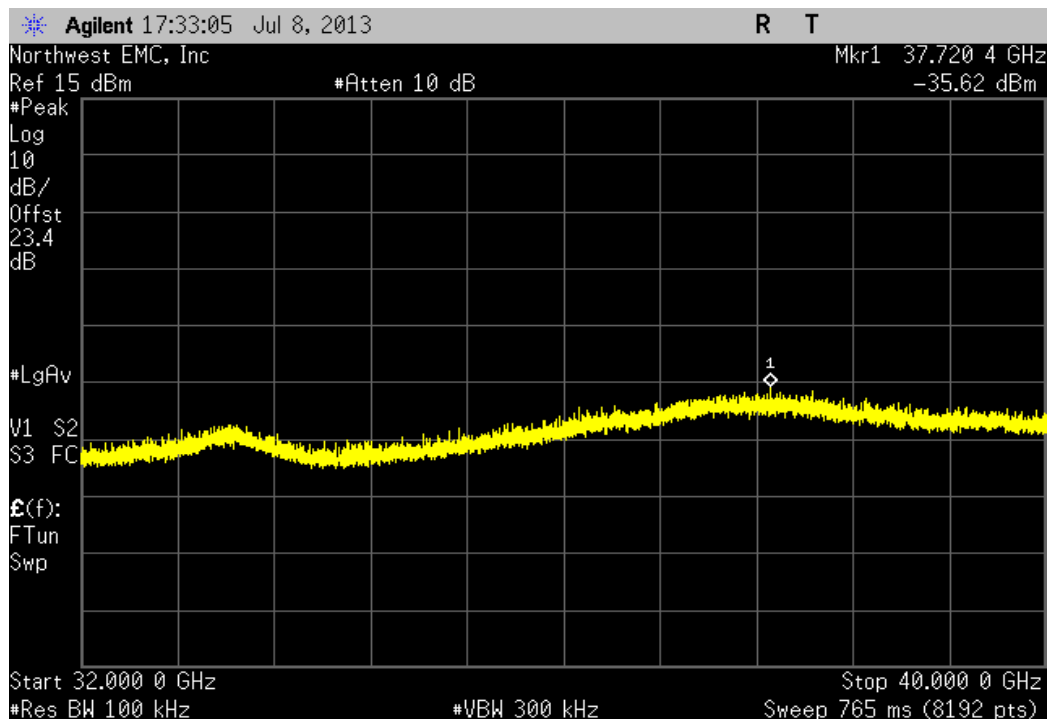
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.12 dBc	≤ -20 dBc	Pass	



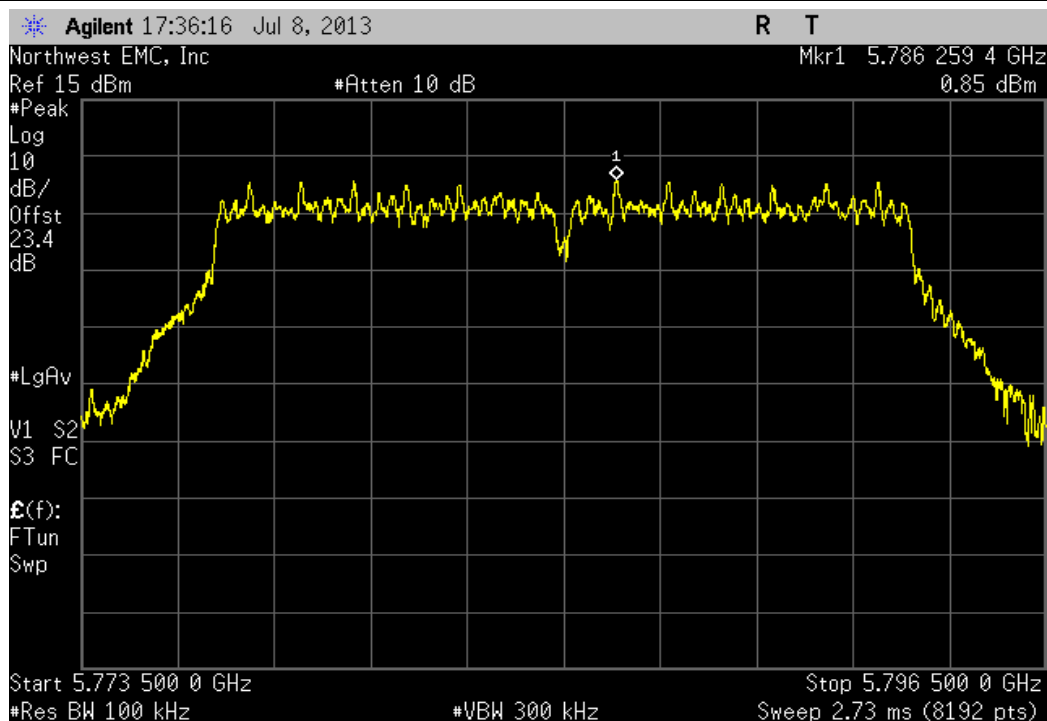
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-46.06 dBc	≤ -20 dBc	Pass	



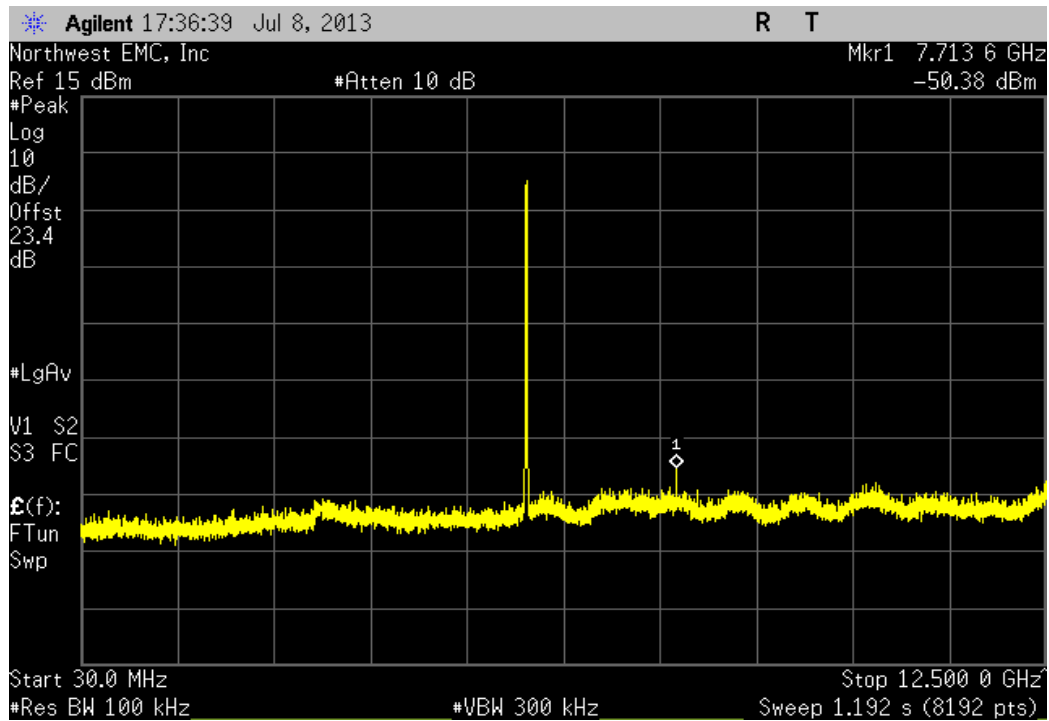
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-35.96 dBc	≤ -20 dBc	Pass



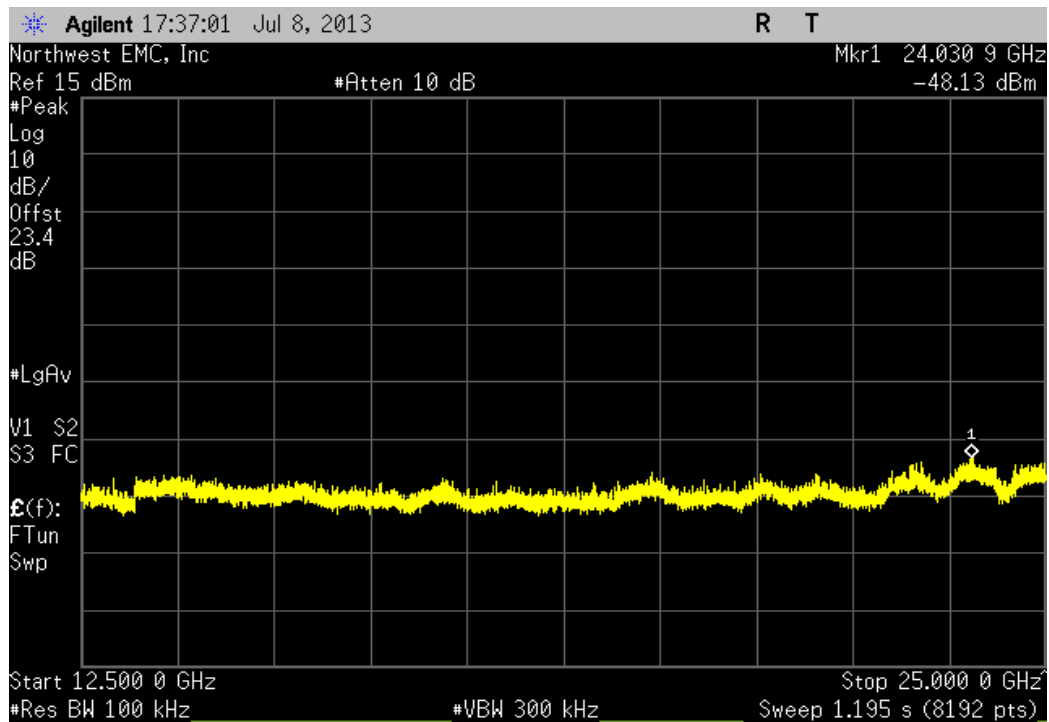
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



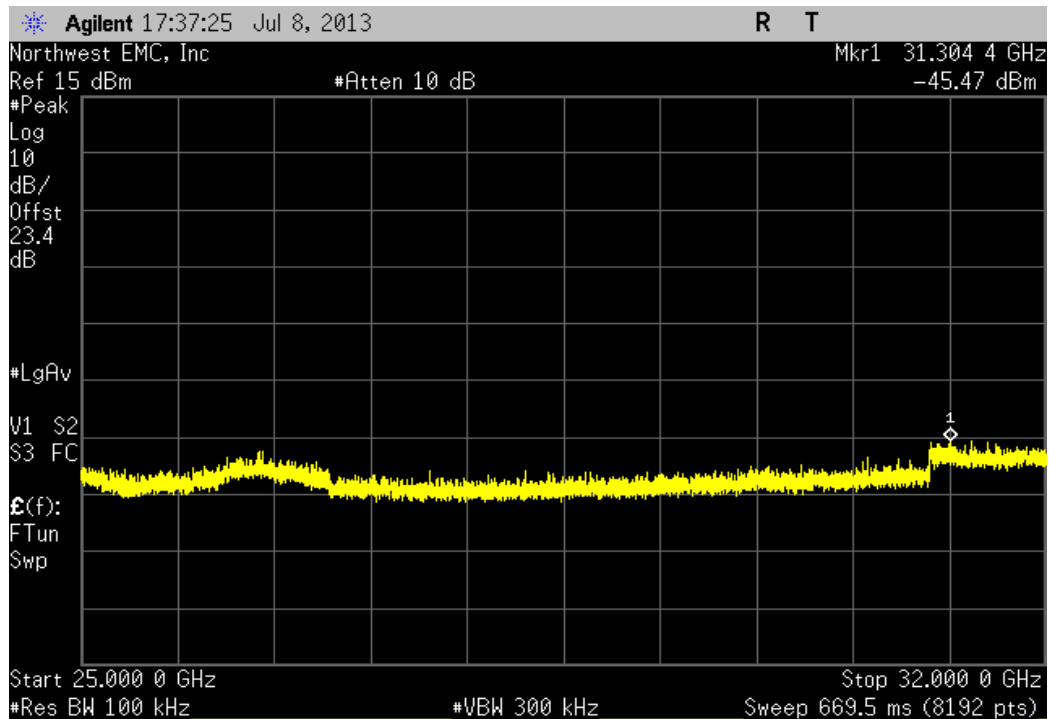
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.23 dBc	≤ -20 dBc	Pass	



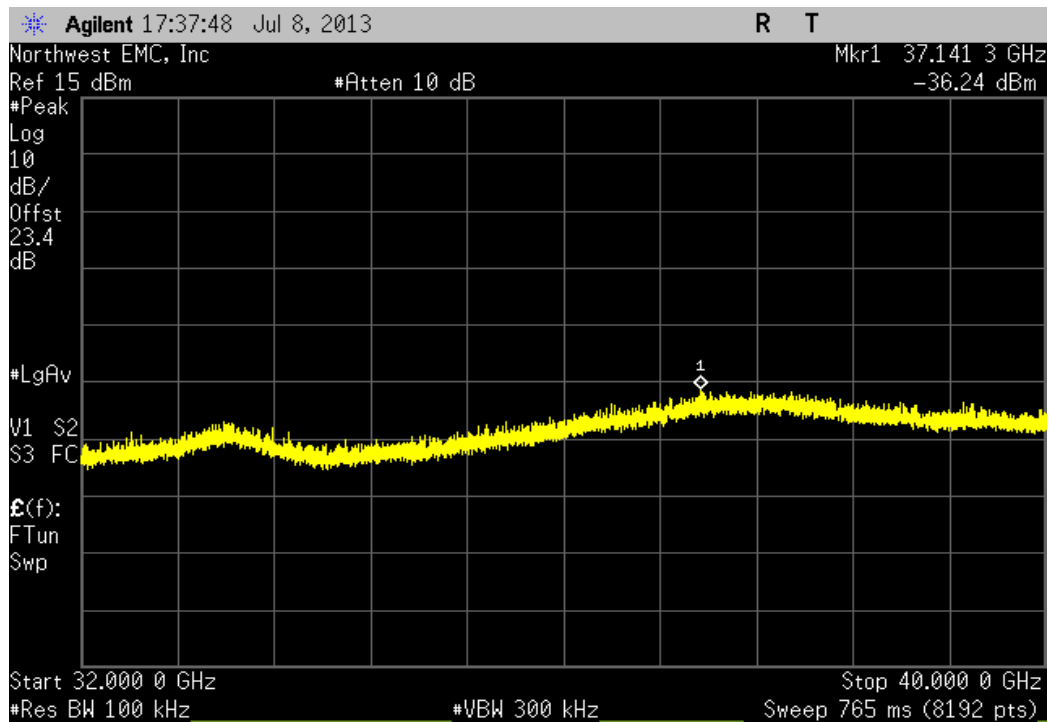
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.98 dBc	≤ -20 dBc	Pass	



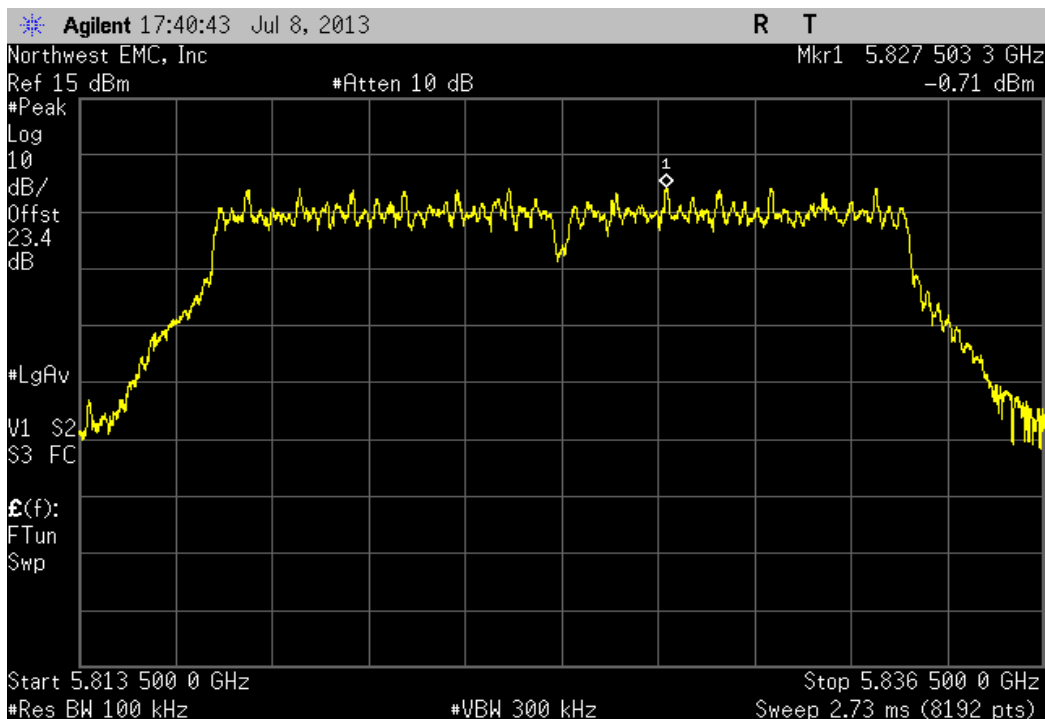
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-46.32 dBc	≤ -20 dBc	Pass



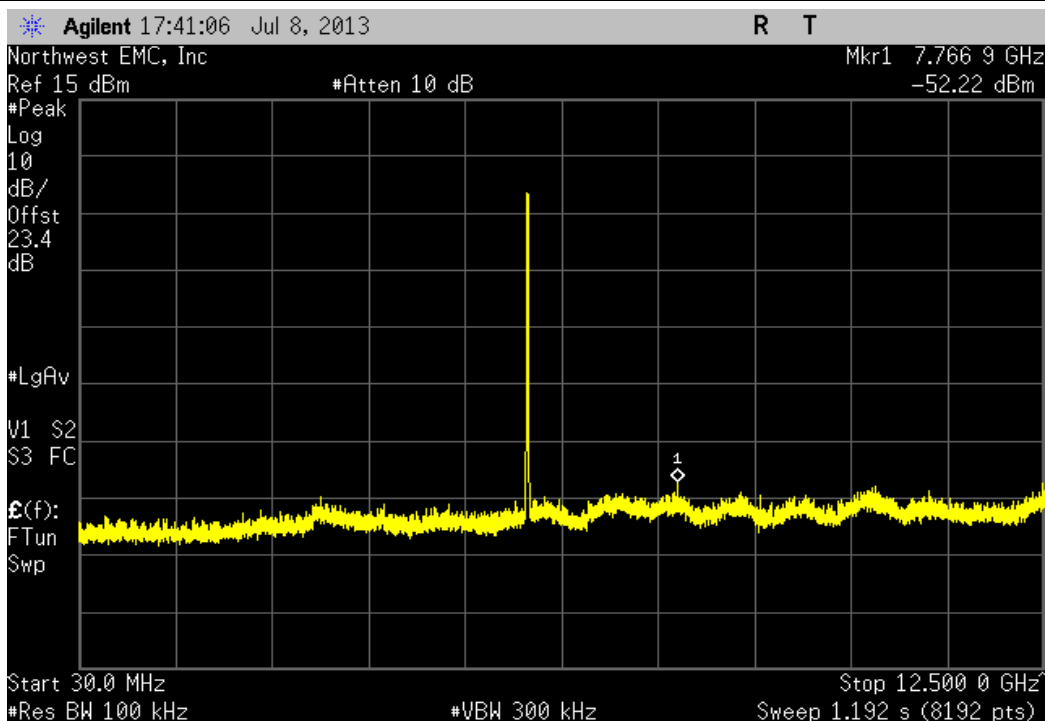
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-37.09 dBc	≤ -20 dBc	Pass



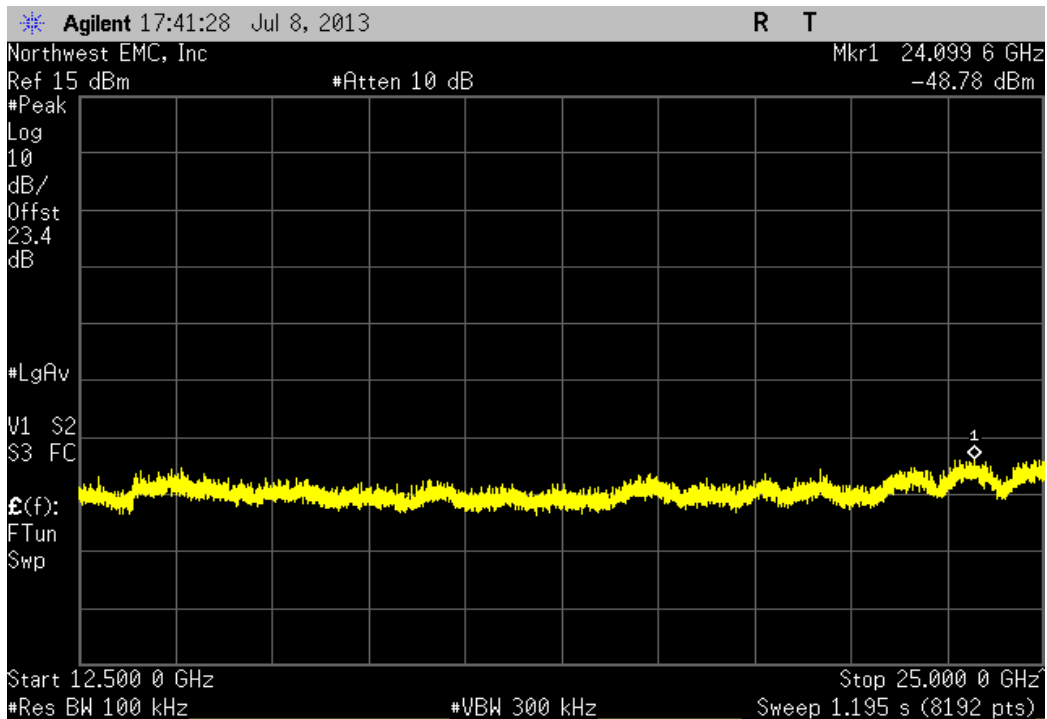
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



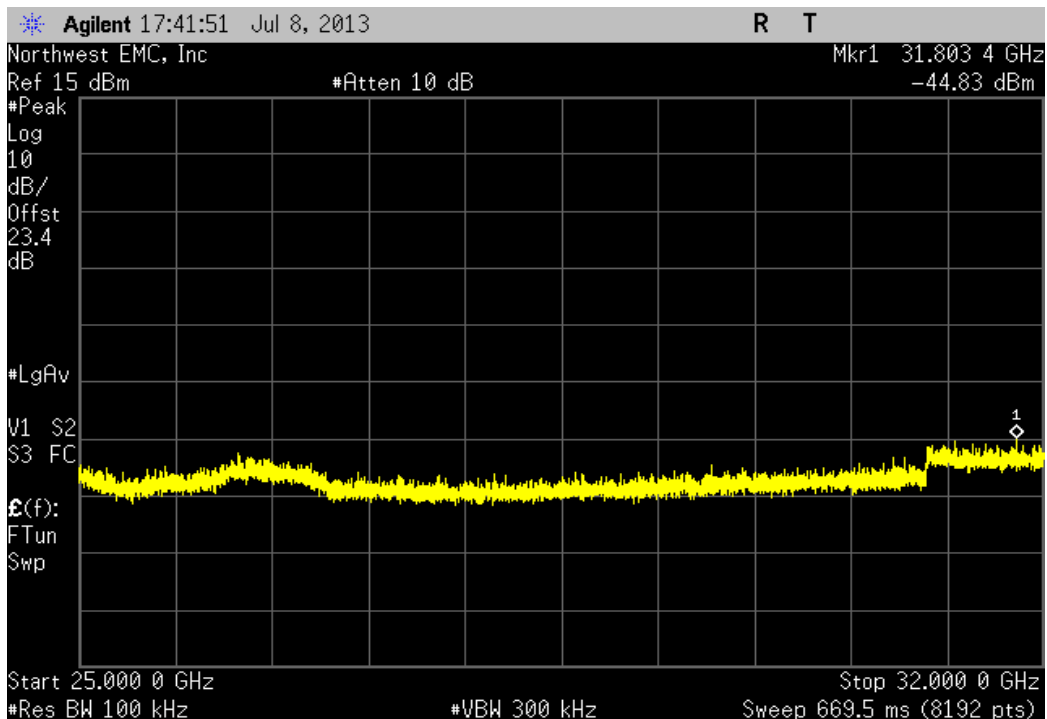
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-51.51 dBc	≤ -20 dBc	Pass



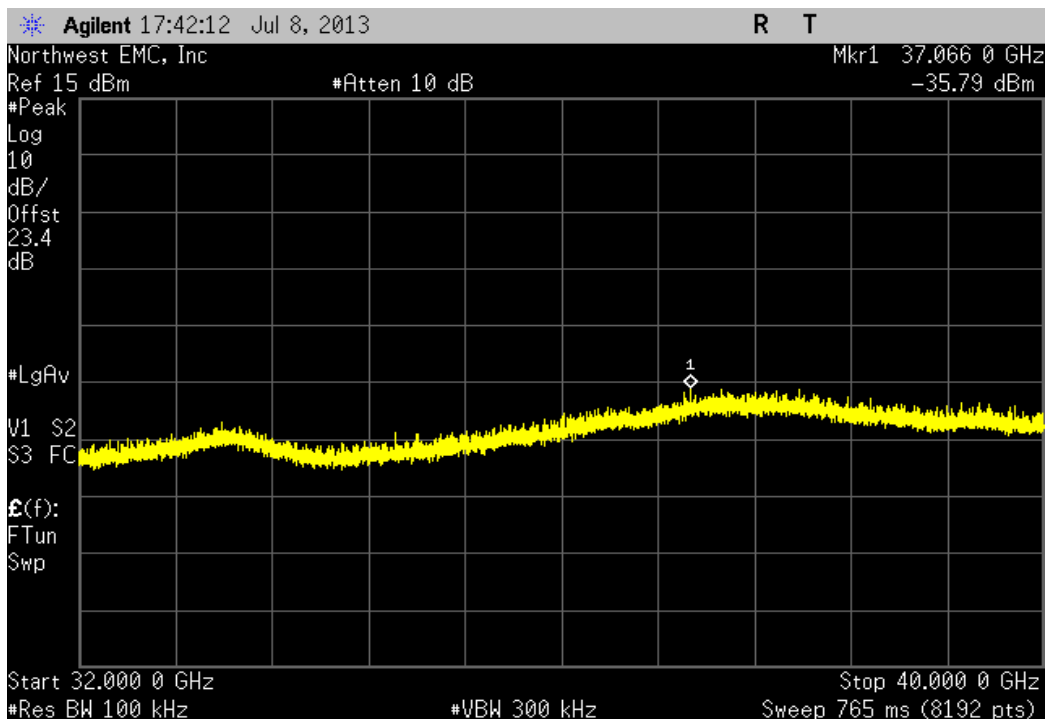
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.07 dBc	≤ -20 dBc	Pass	



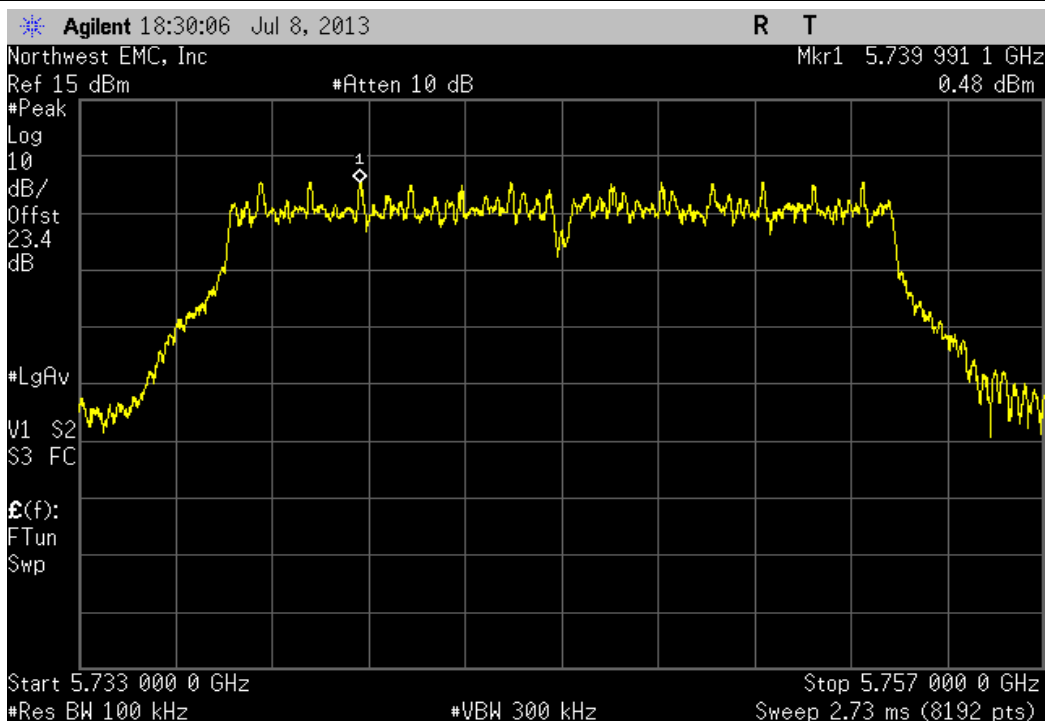
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-44.12 dBc	≤ -20 dBc	Pass	



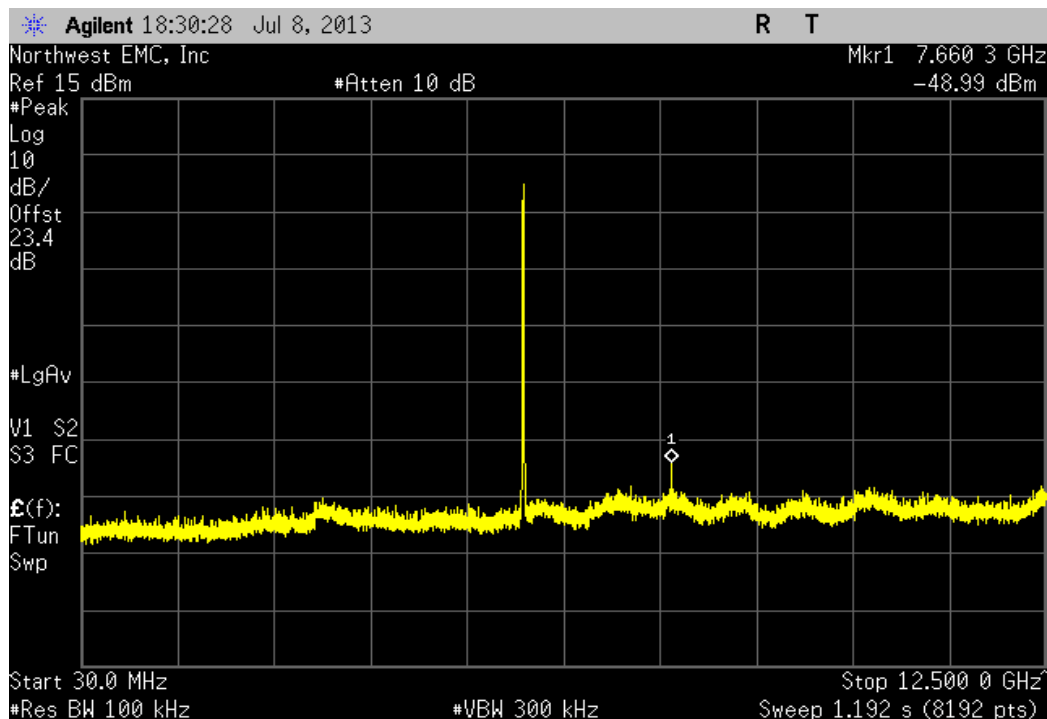
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-35.08 dBc	≤ -20 dBc	Pass



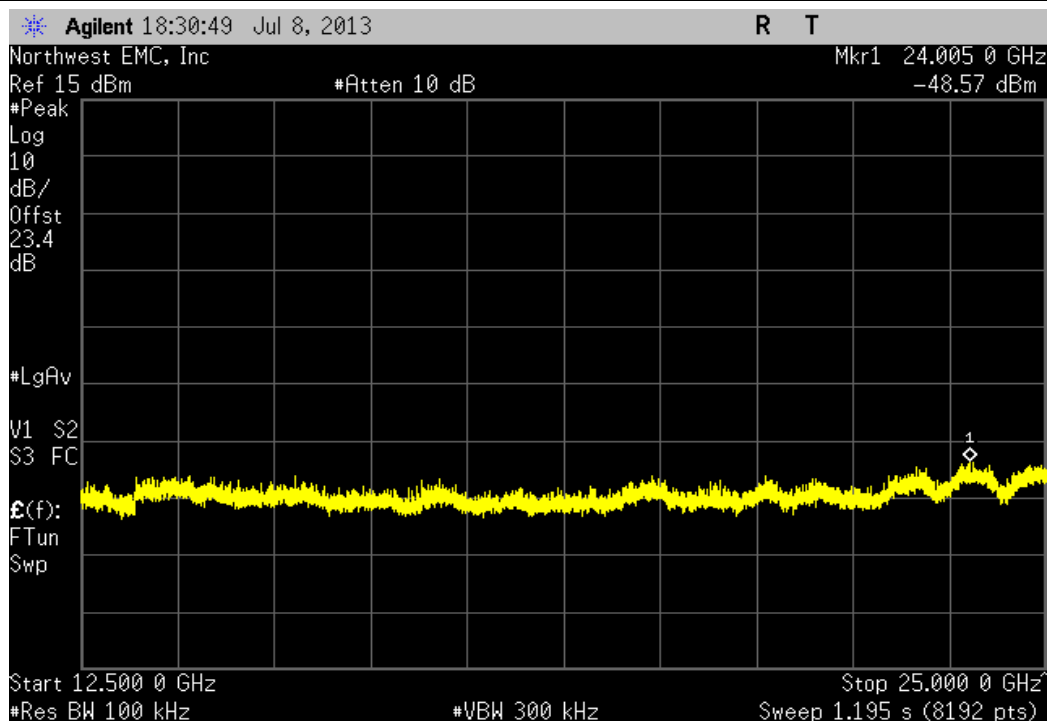
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



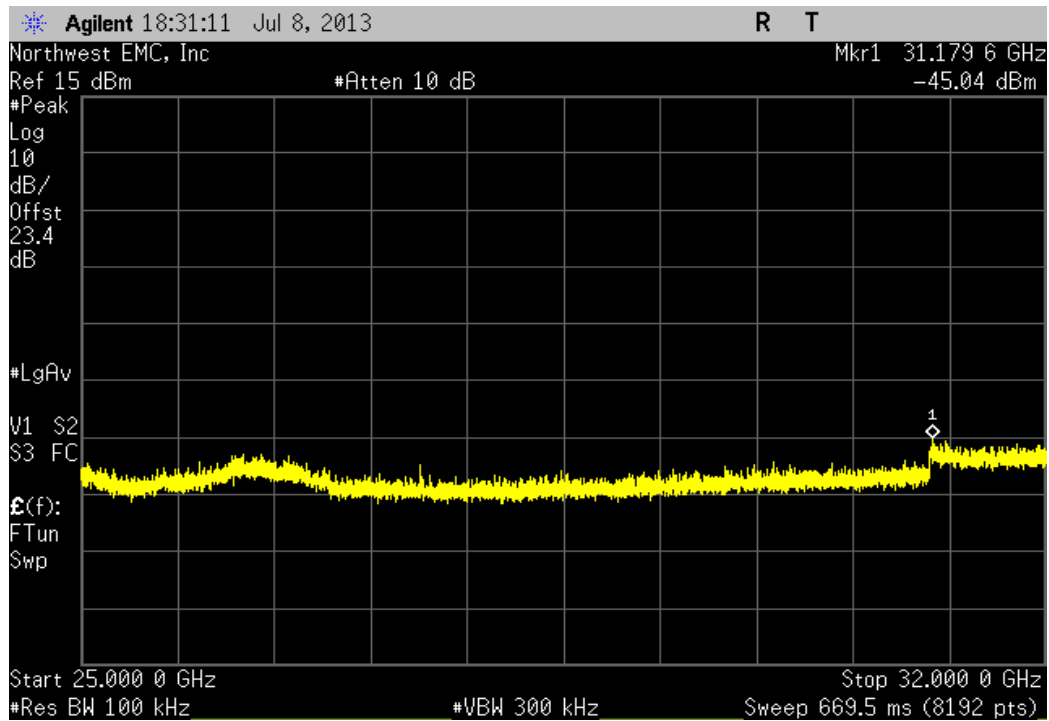
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.47 dBc	≤ -20 dBc	Pass	



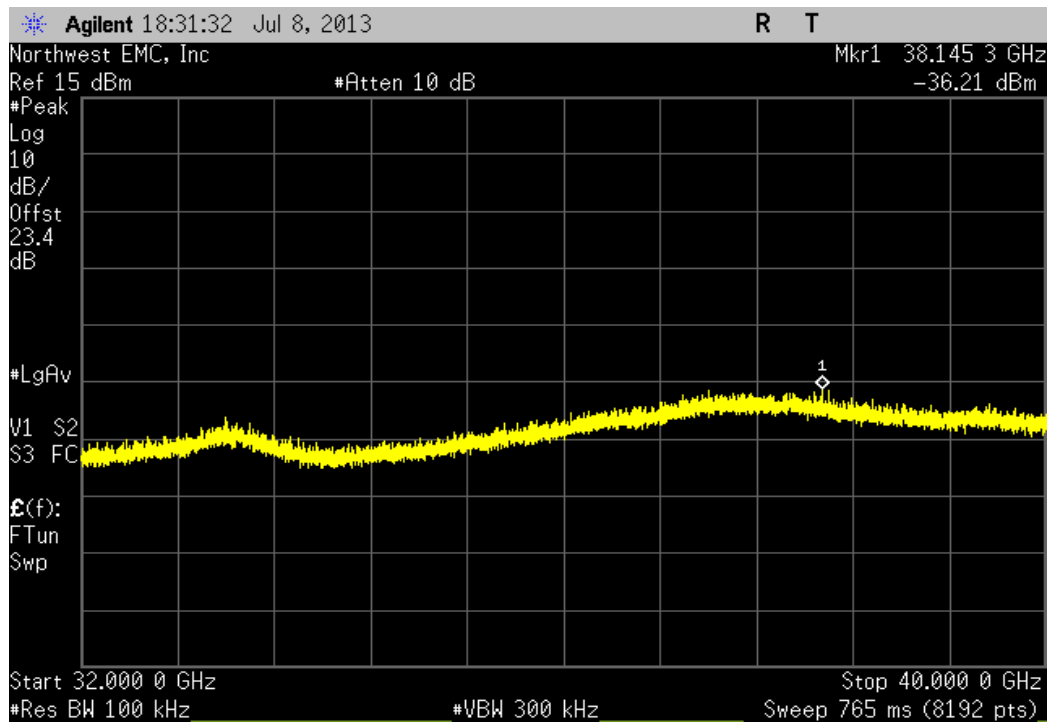
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-49.05 dBc	≤ -20 dBc	Pass	



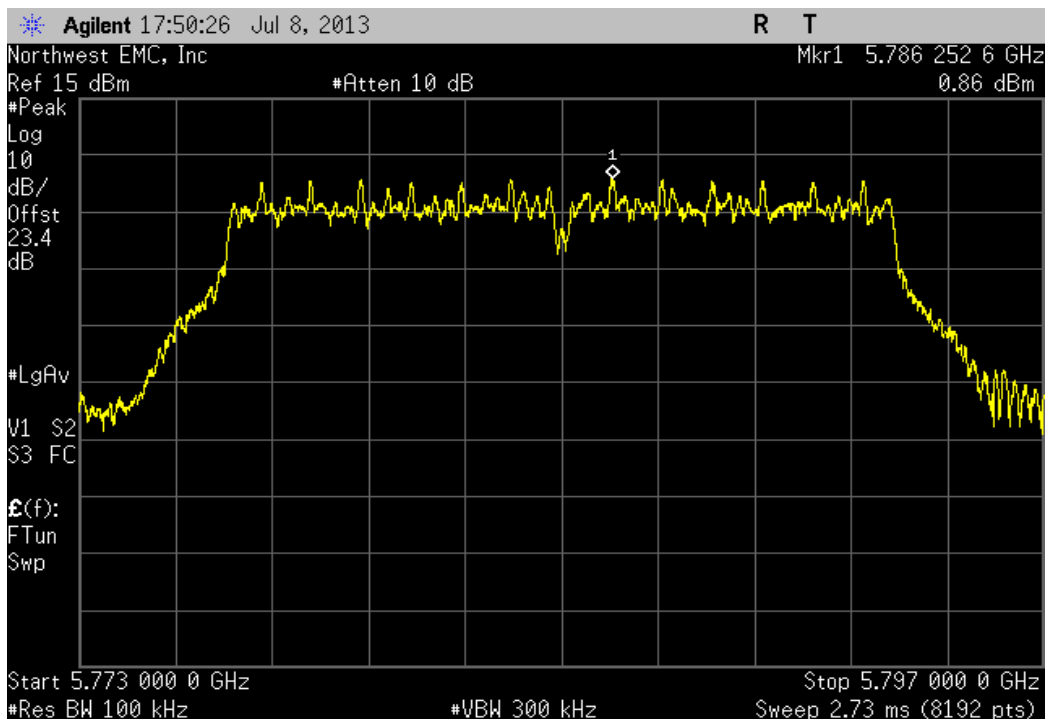
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-45.52 dBc	≤ -20 dBc	Pass



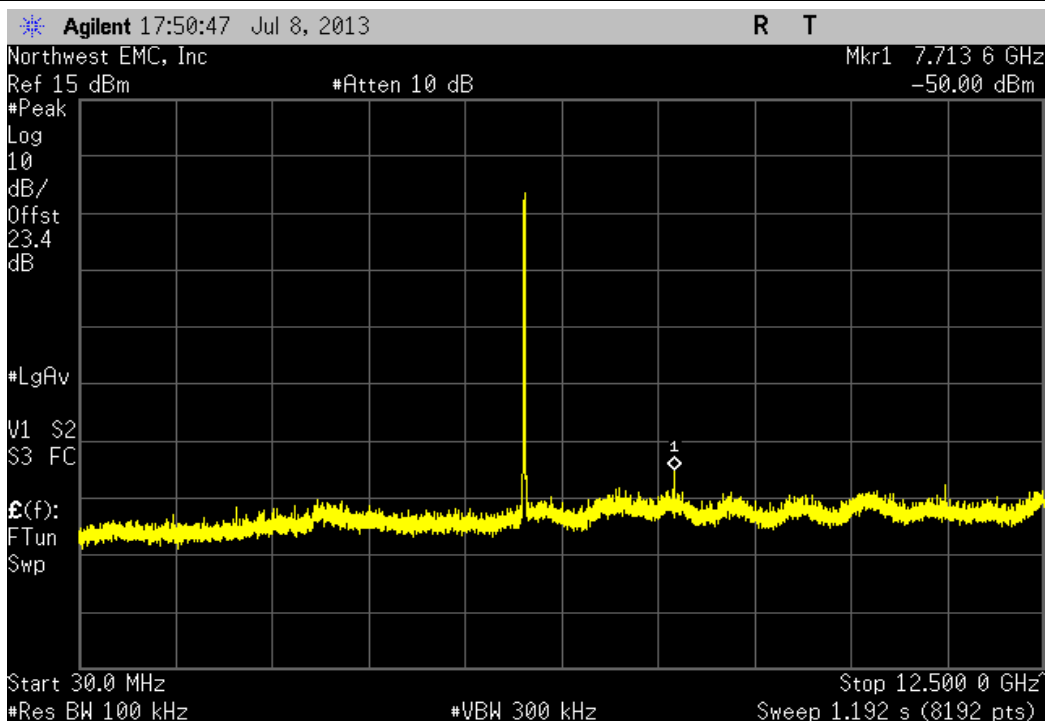
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-36.69 dBc	≤ -20 dBc	Pass



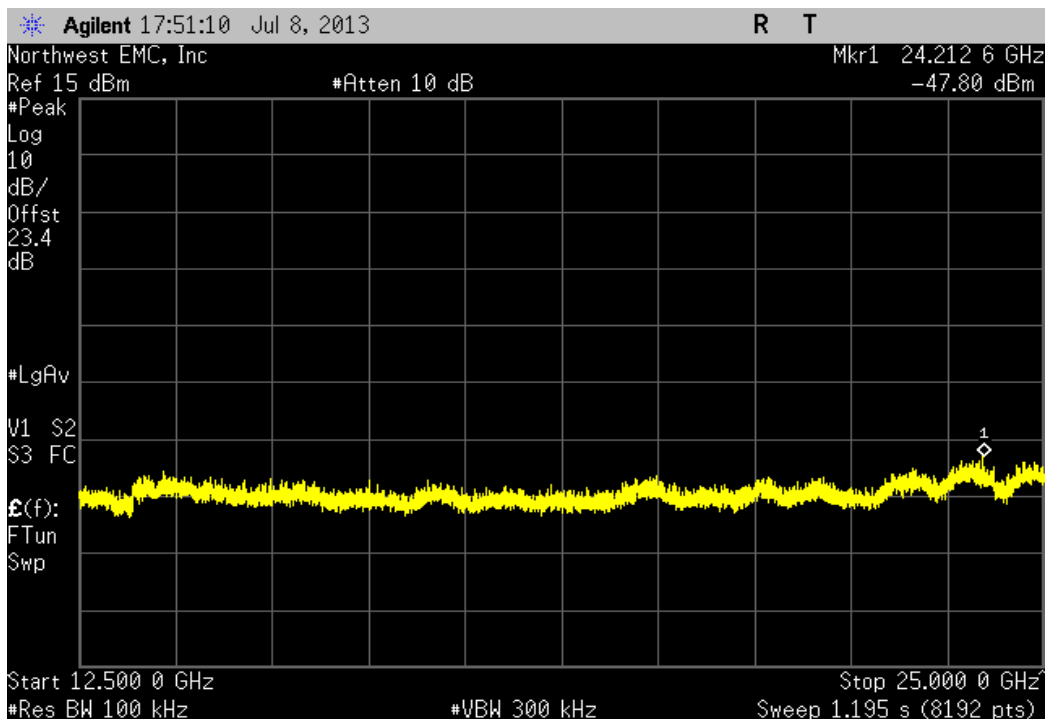
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



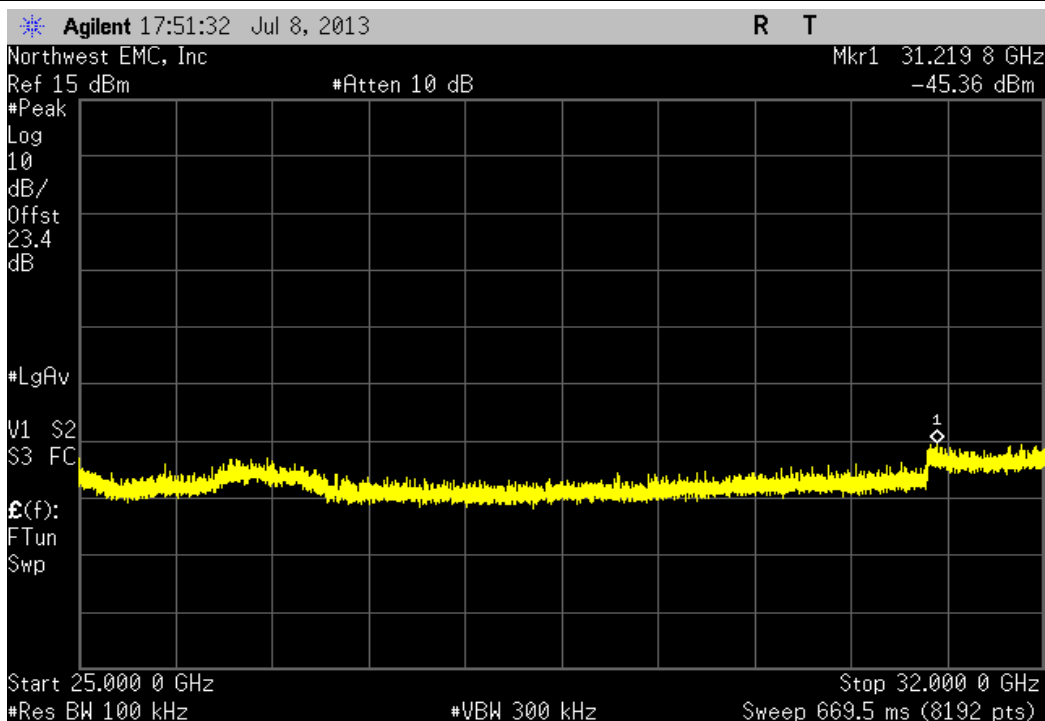
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.86 dBc	≤ -20 dBc	Pass



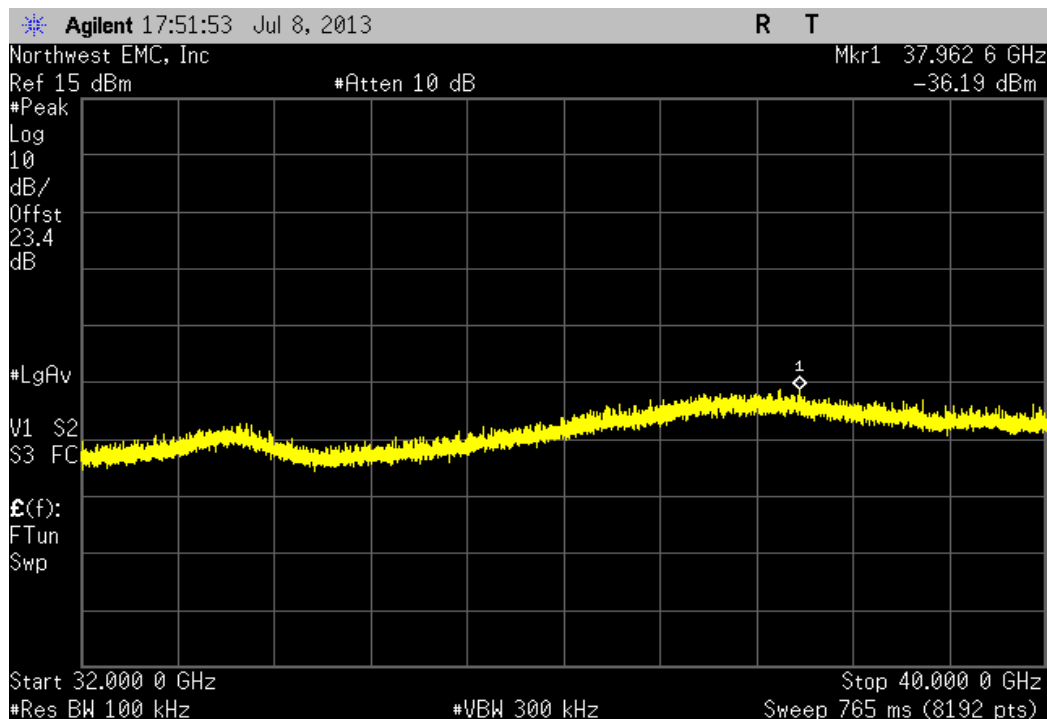
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.66 dBc	≤ -20 dBc	Pass	



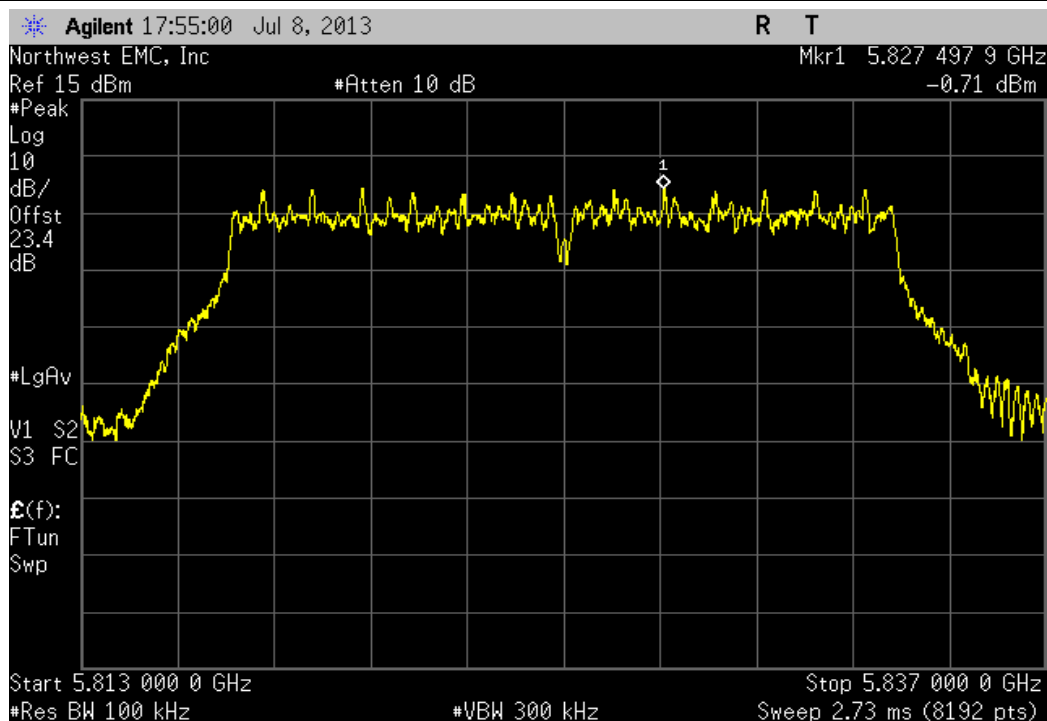
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-46.22 dBc	≤ -20 dBc	Pass	



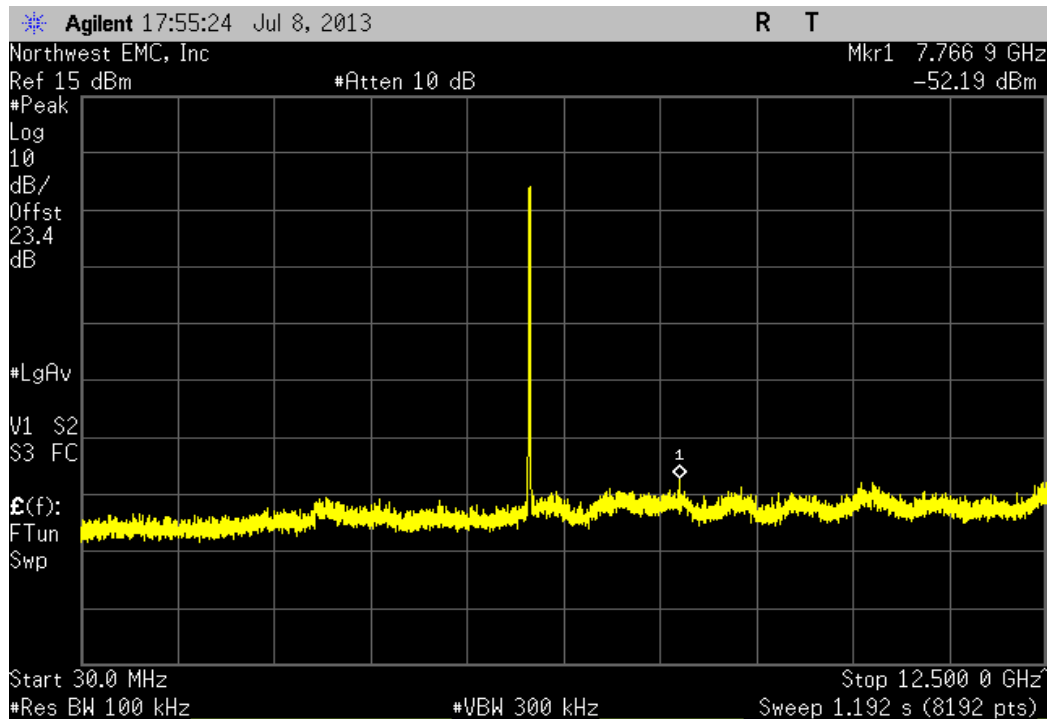
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-37.05 dBc	≤ -20 dBc	Pass



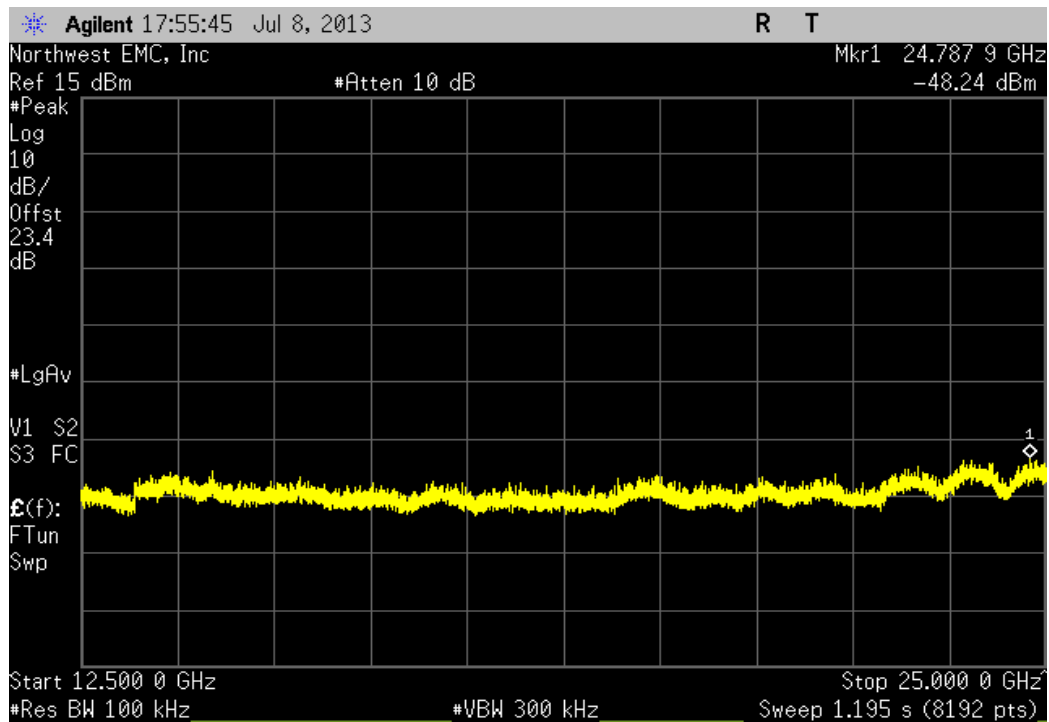
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



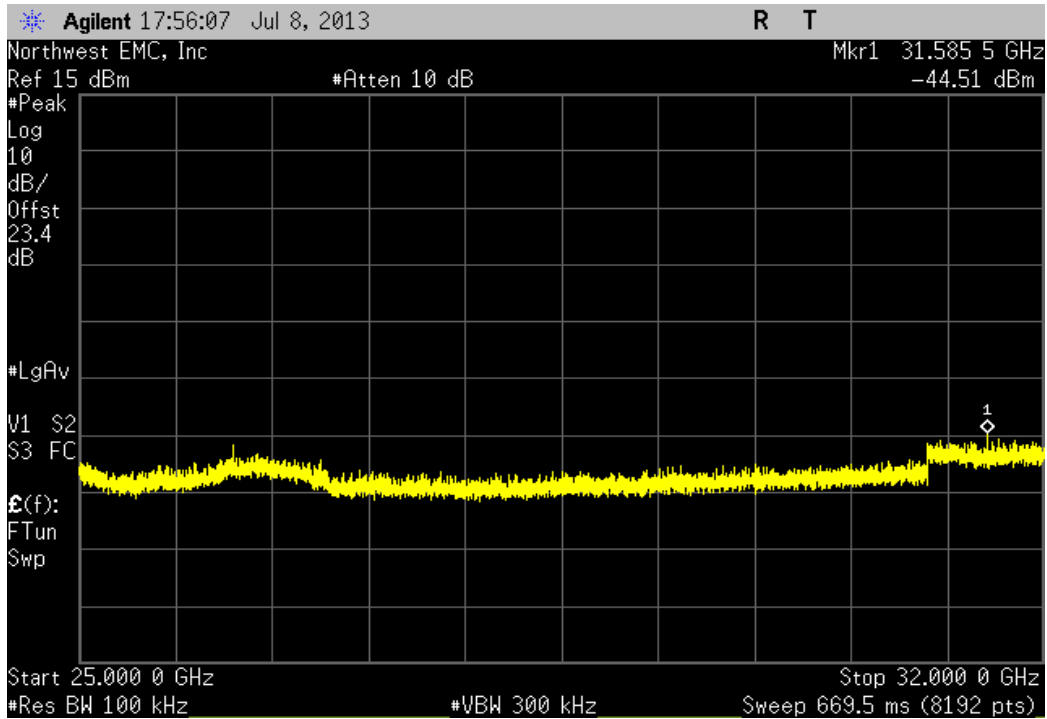
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.48 dBc	≤ -20 dBc	Pass	



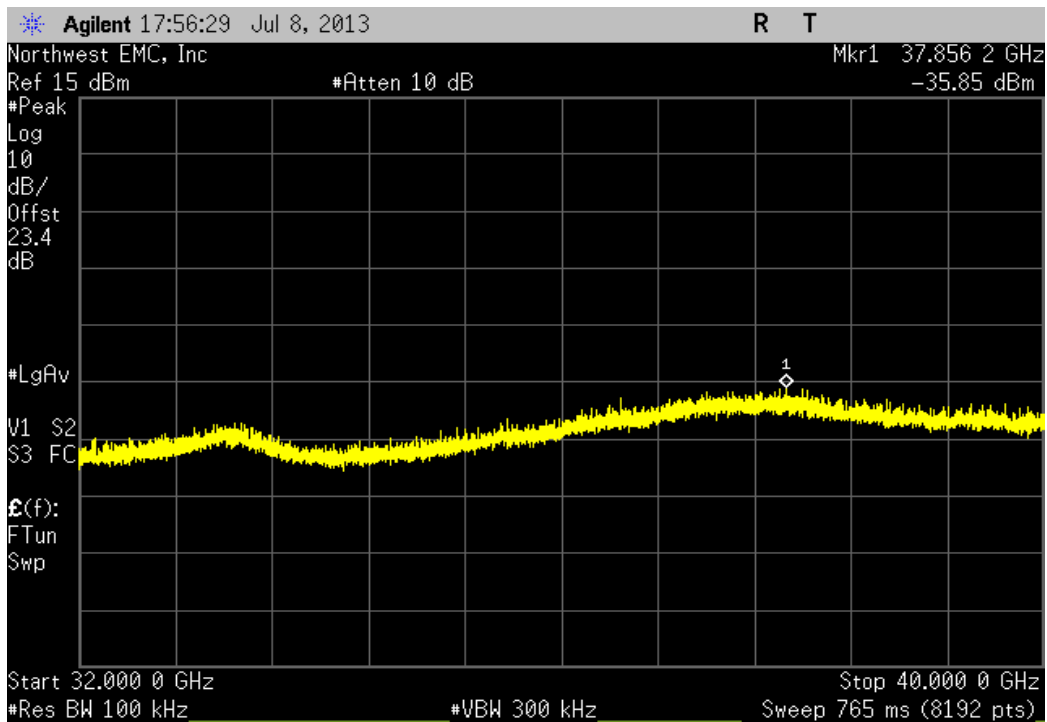
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.53 dBc	≤ -20 dBc	Pass	



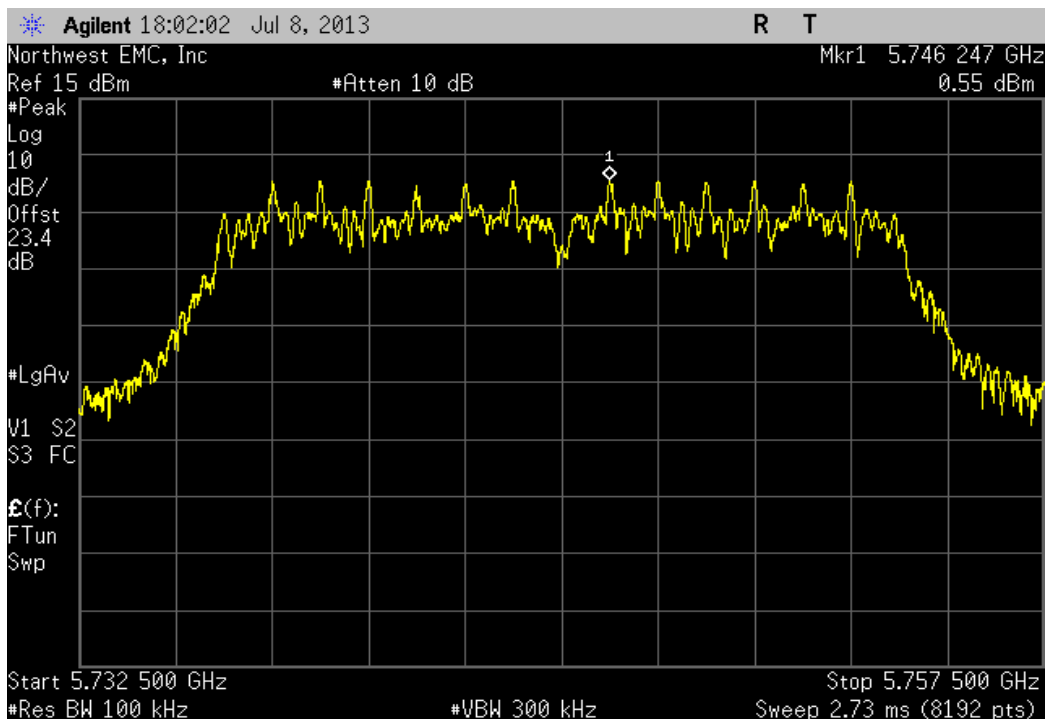
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43.8 dBc	≤ -20 dBc	Pass	



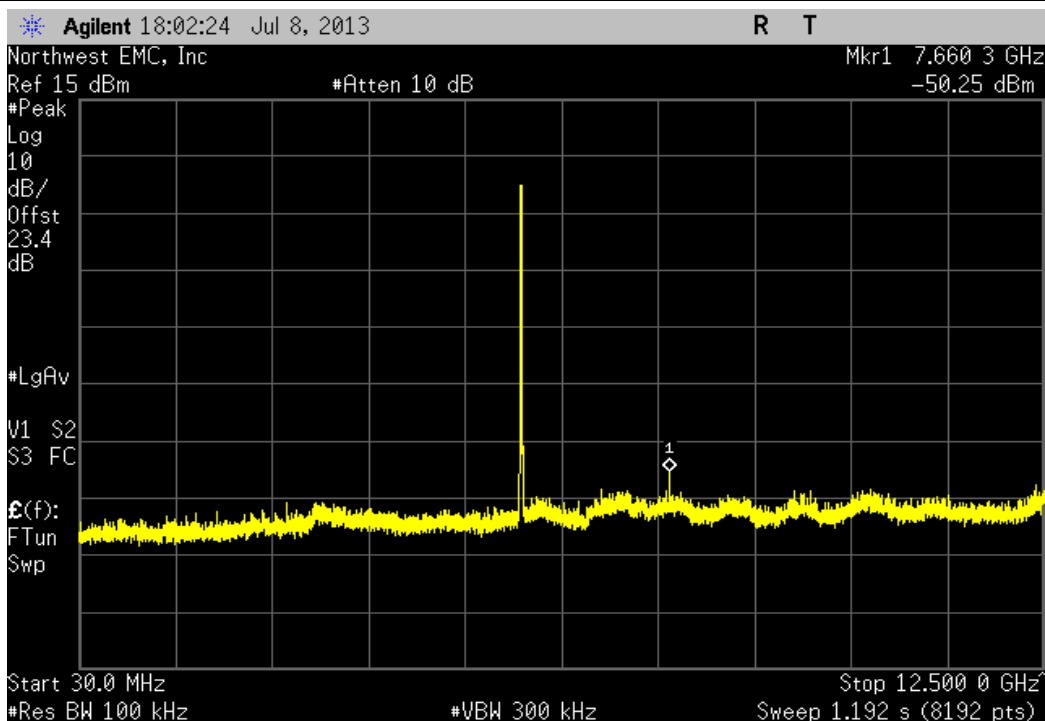
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-35.14 dBc	≤ -20 dBc	Pass	



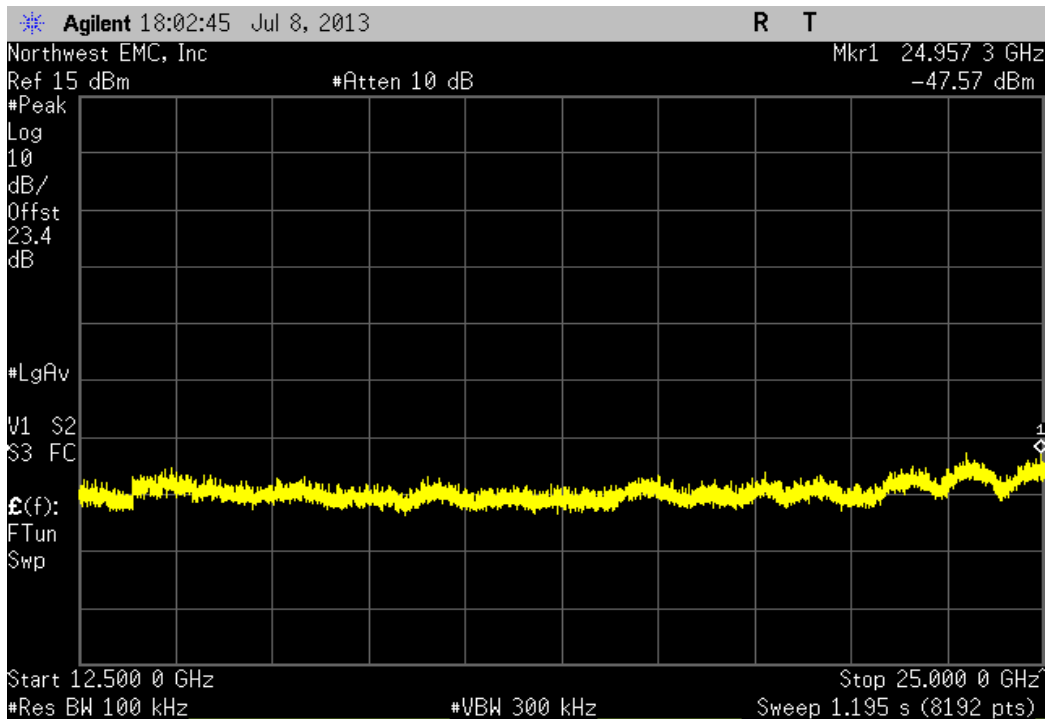
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



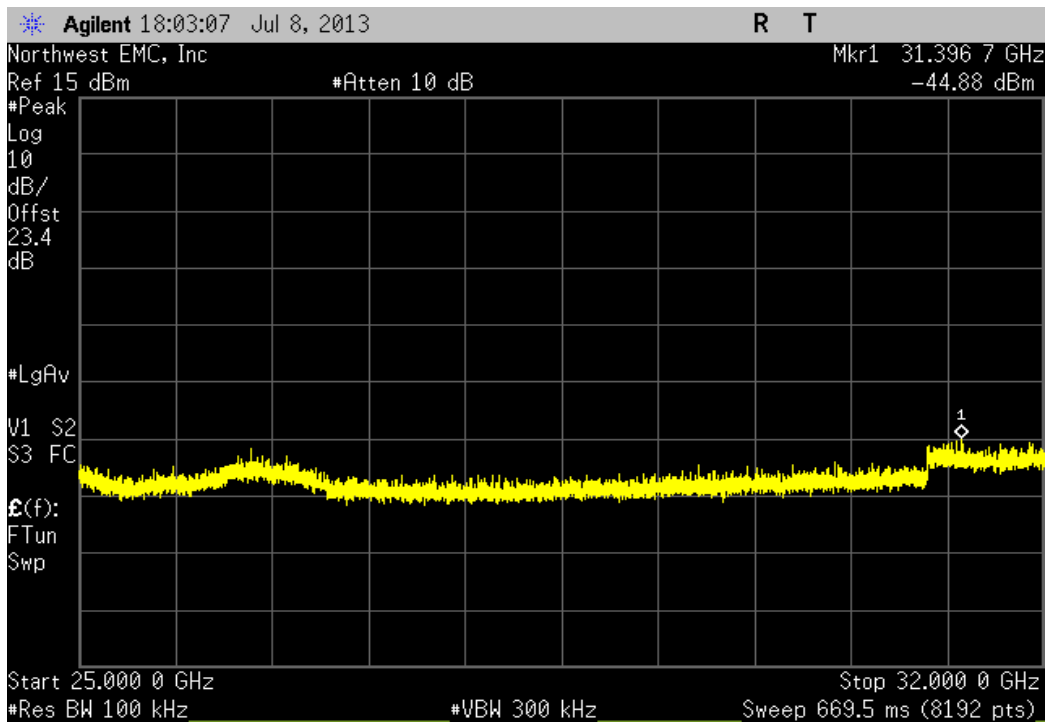
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.8 dBc	≤ -20 dBc	Pass



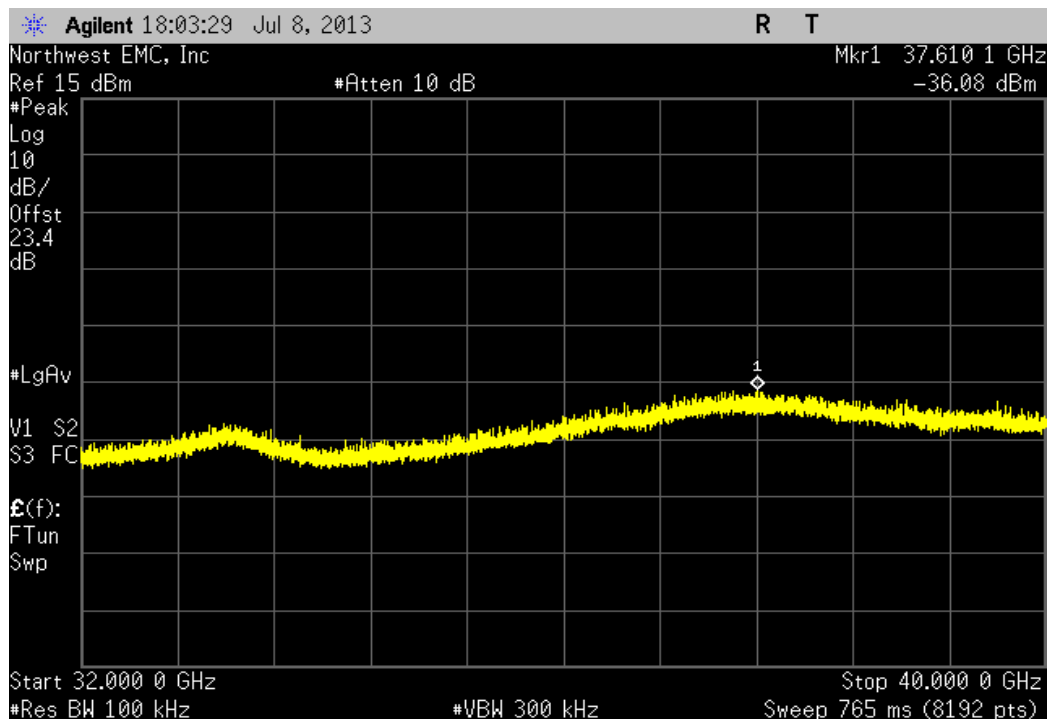
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.12 dBc	≤ -20 dBc	Pass	



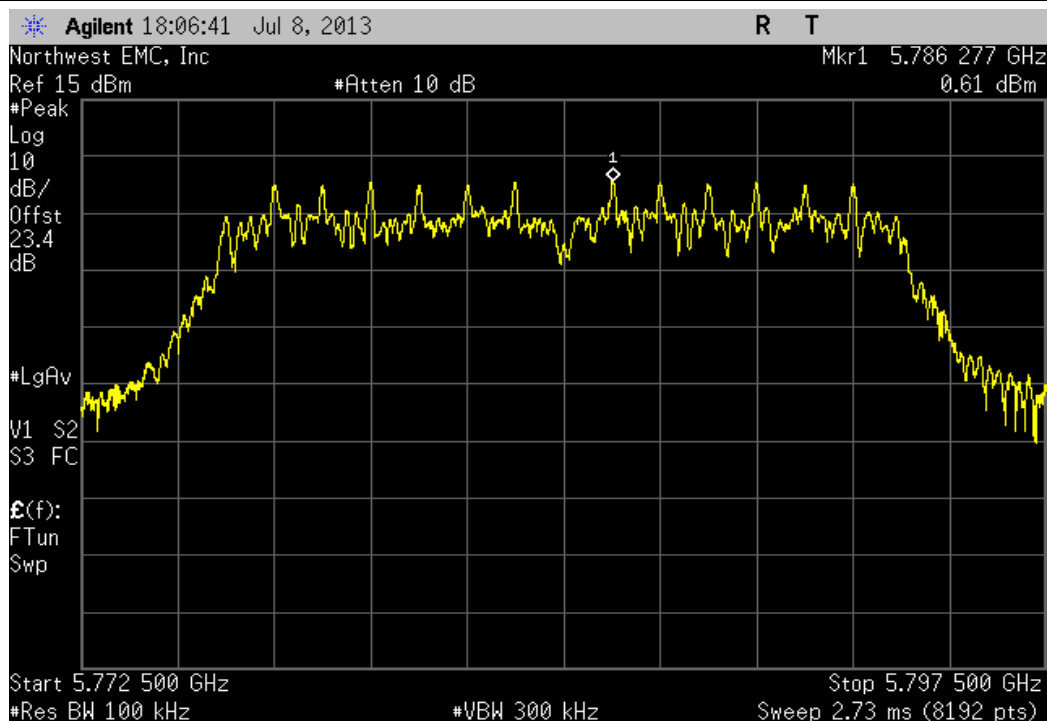
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-45.43 dBc	≤ -20 dBc	Pass	



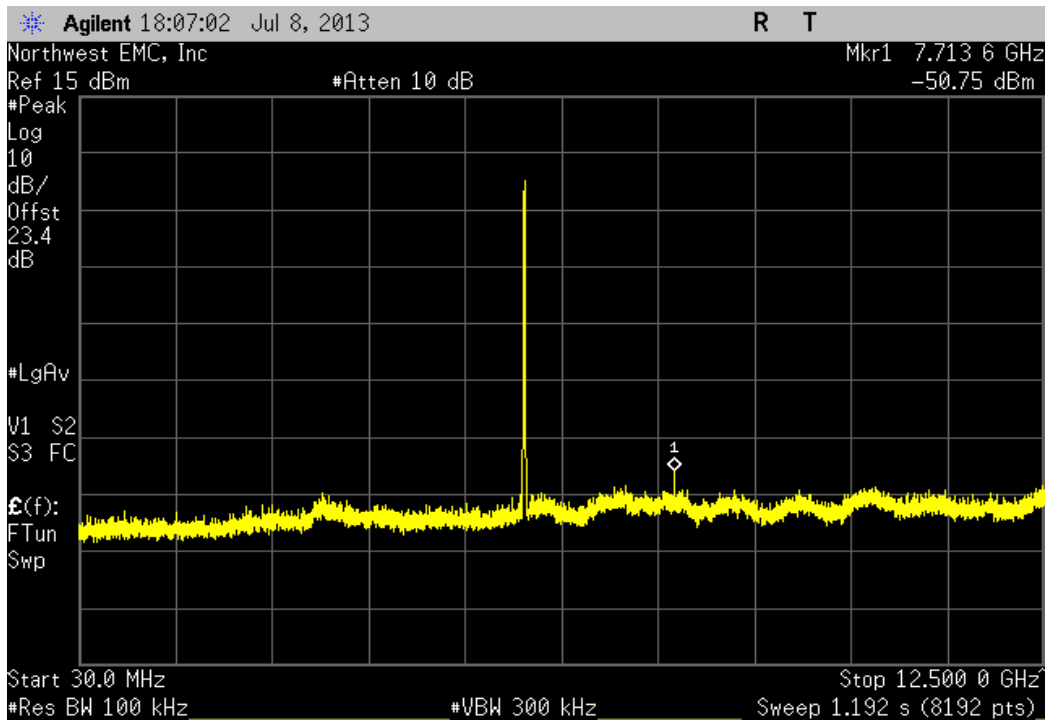
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz			
Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-36.63 dBc	≤ -20 dBc	Pass



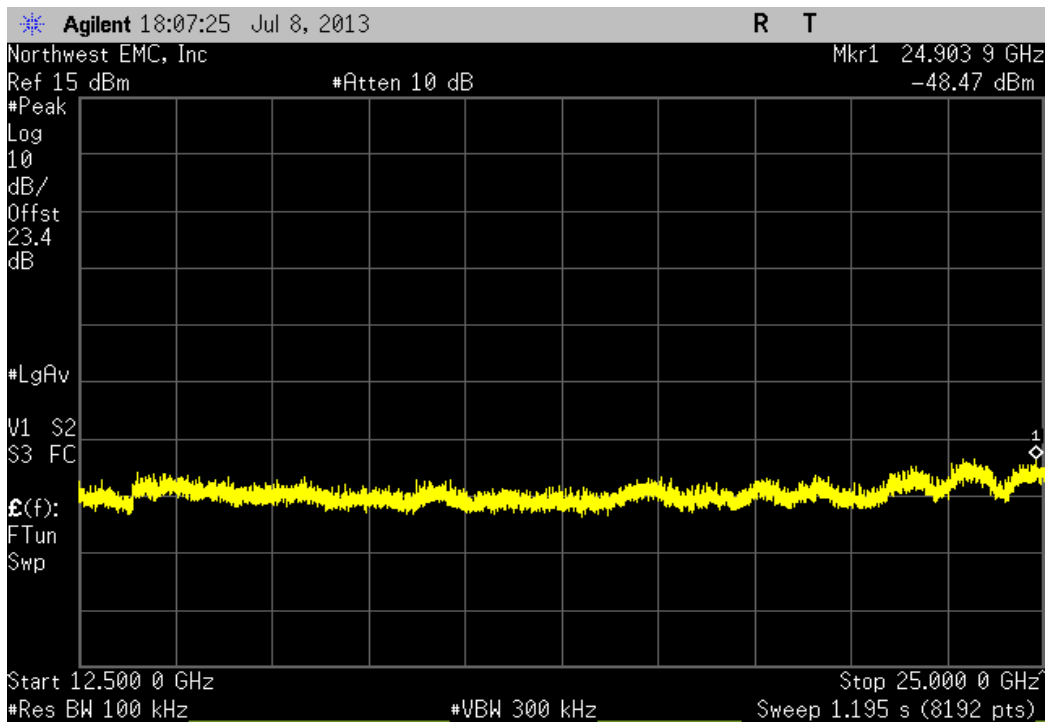
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



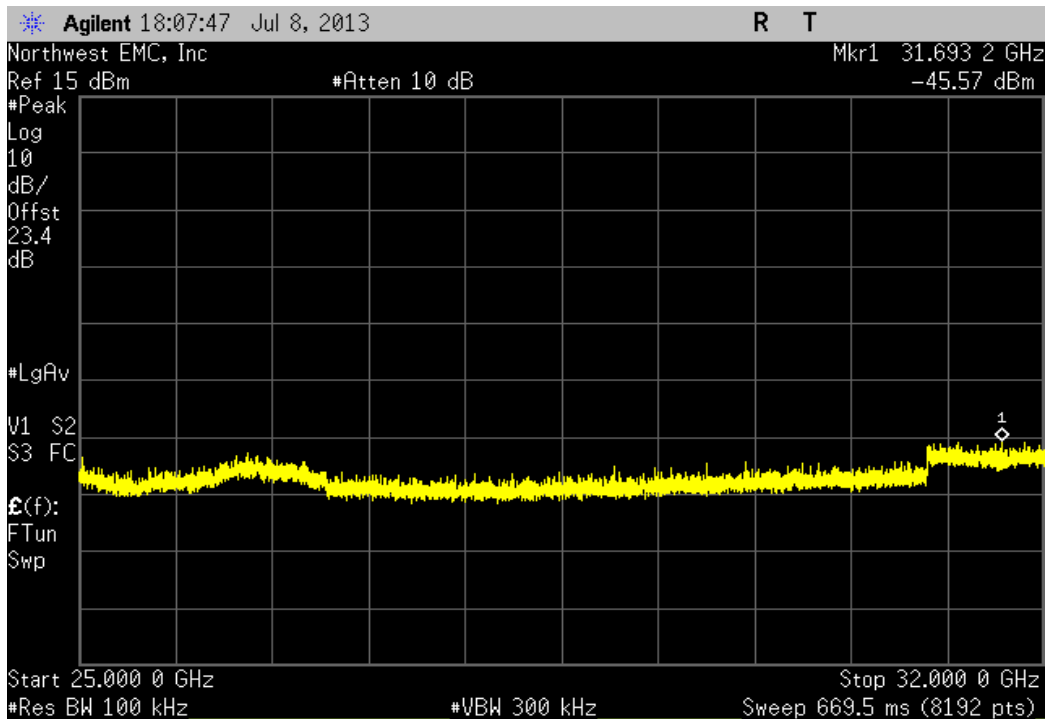
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.36 dBc	≤ -20 dBc	Pass	



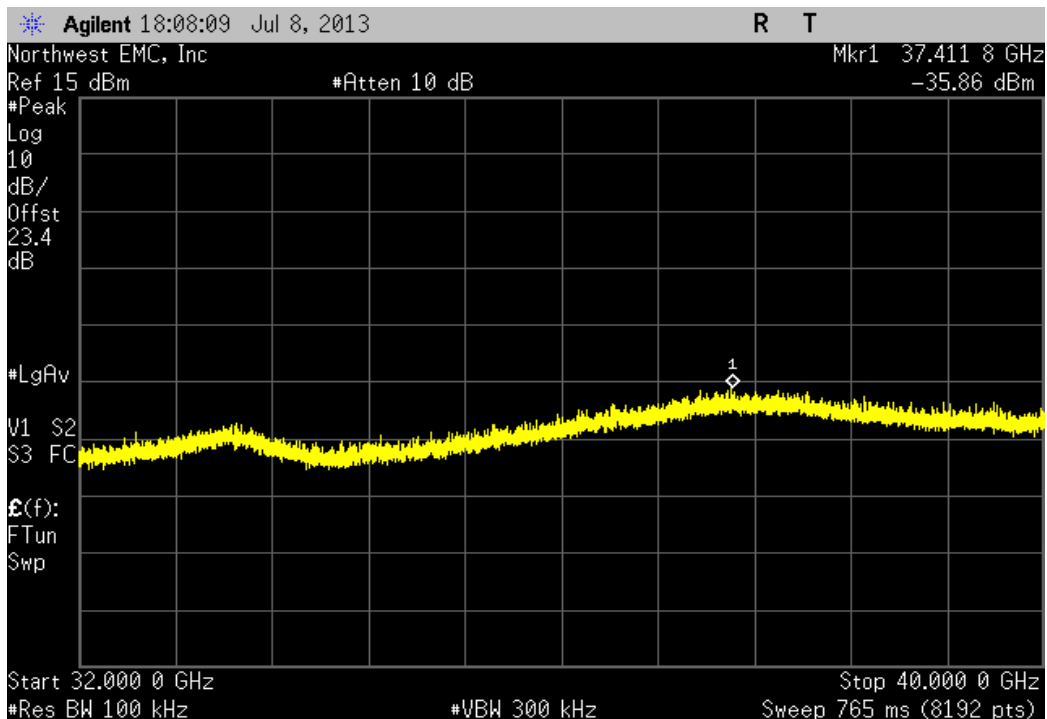
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-49.08 dBc	≤ -20 dBc	Pass	



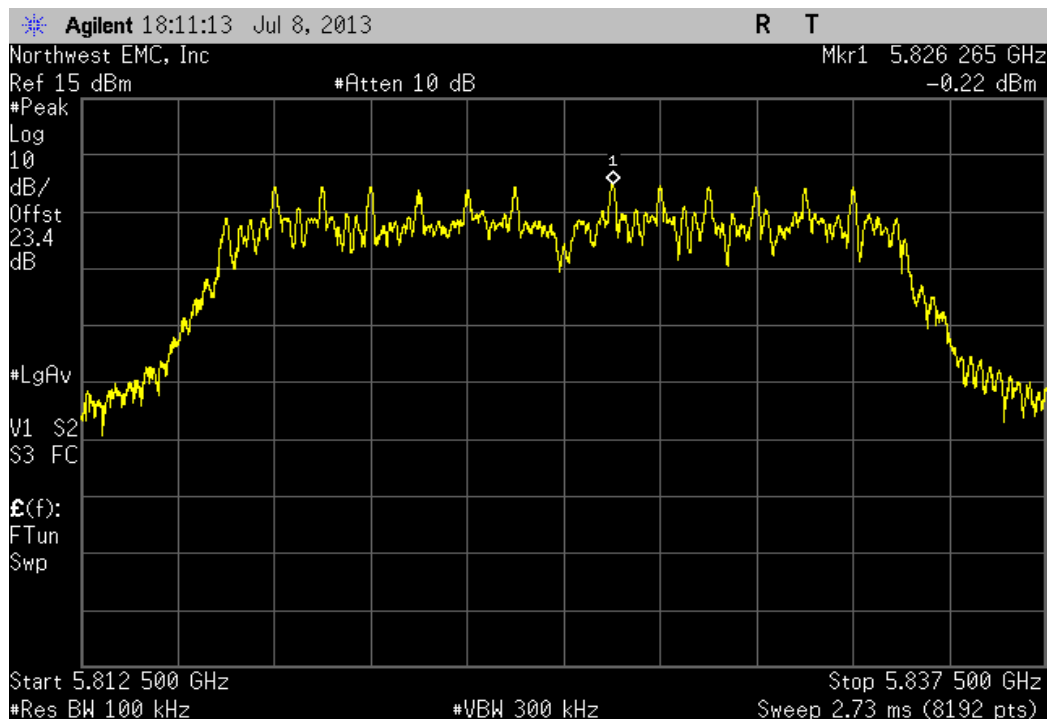
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-46.18 dBc	≤ -20 dBc	Pass	



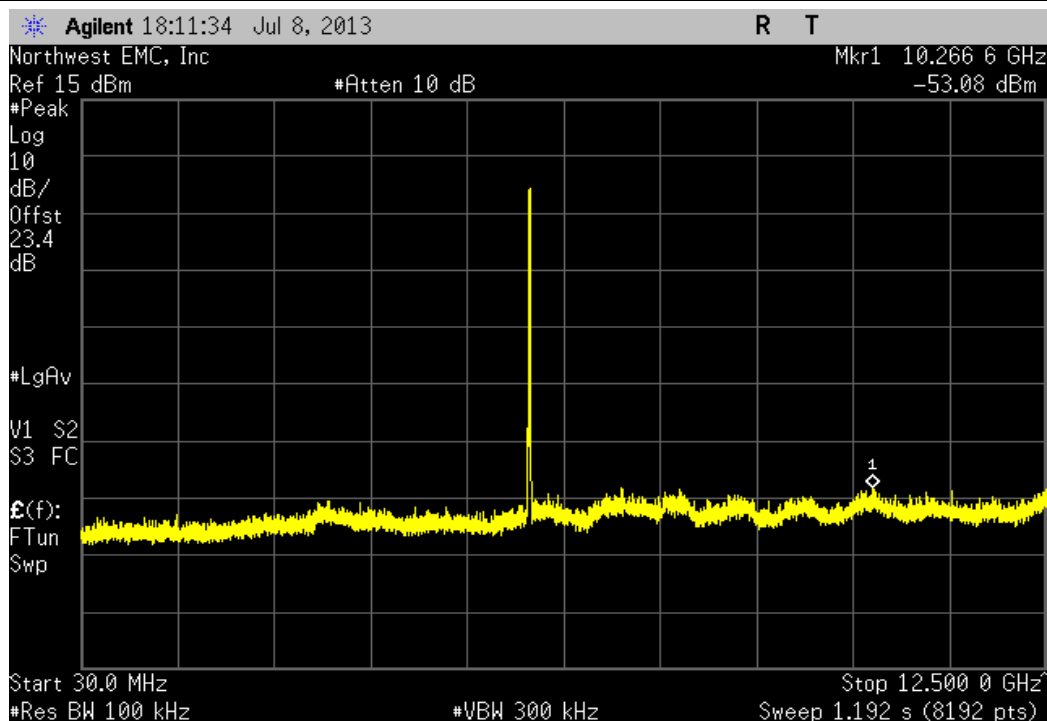
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-36.47 dBc	≤ -20 dBc	Pass	



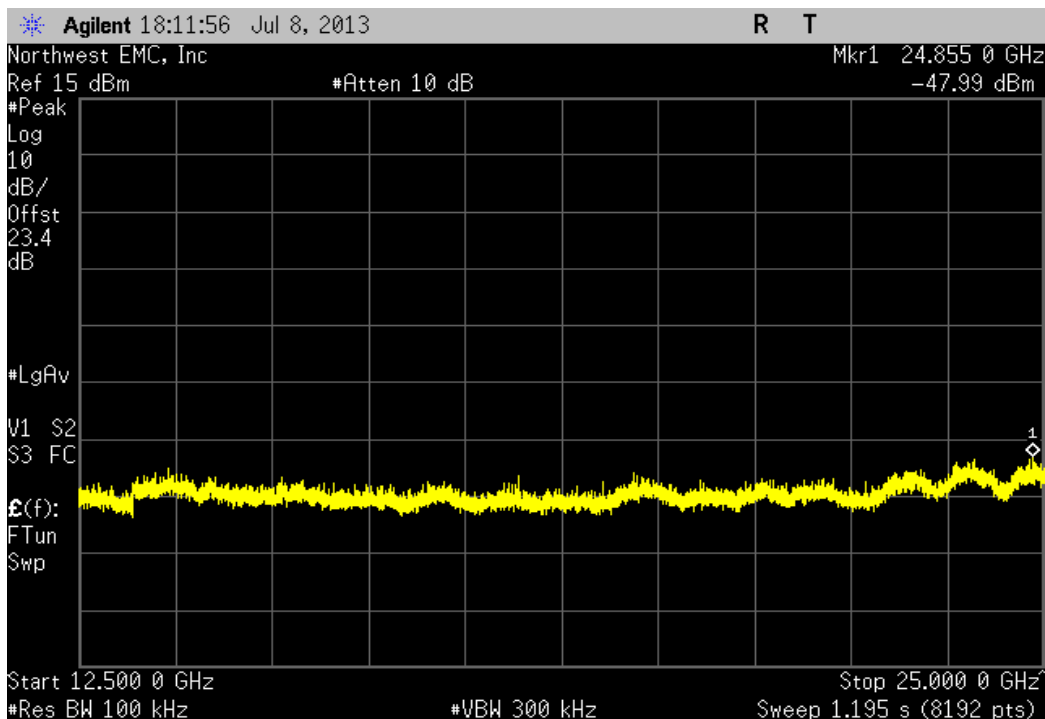
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



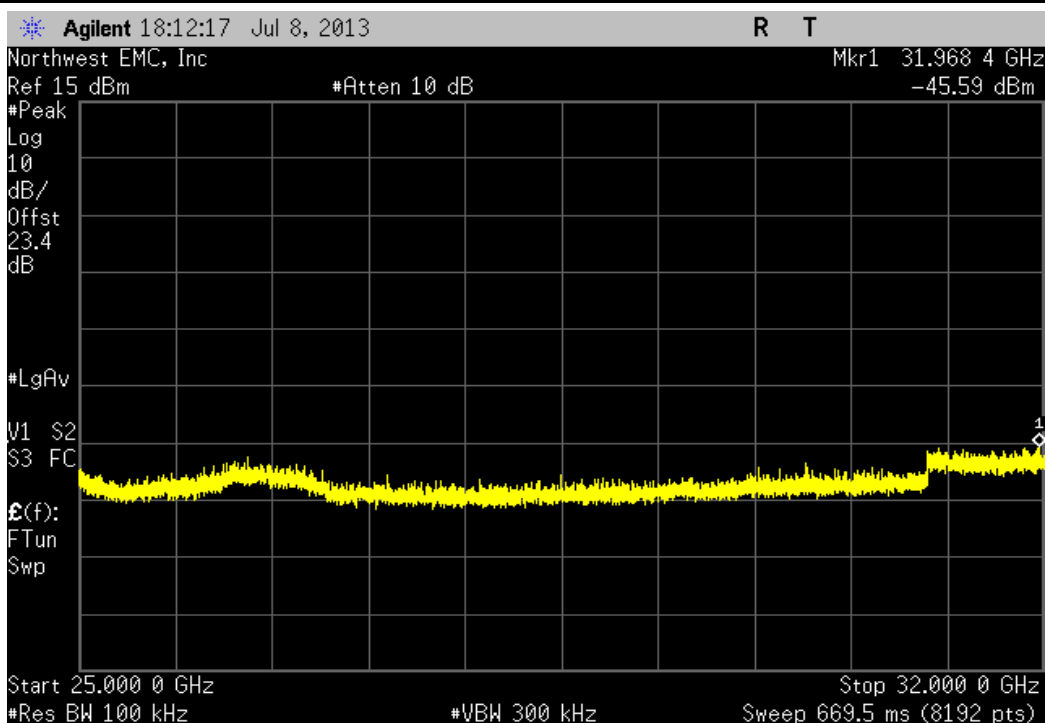
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.86 dBc	≤ -20 dBc	Pass



20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-47.77 dBc	≤ -20 dBc	Pass	

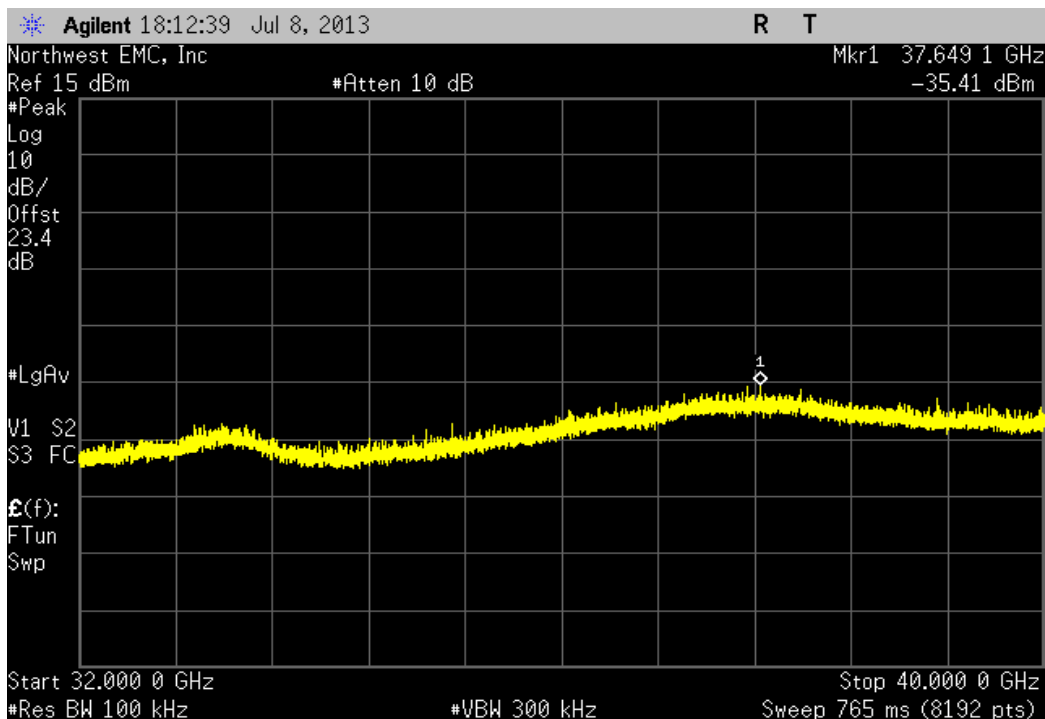


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-45.37 dBc	≤ -20 dBc	Pass	



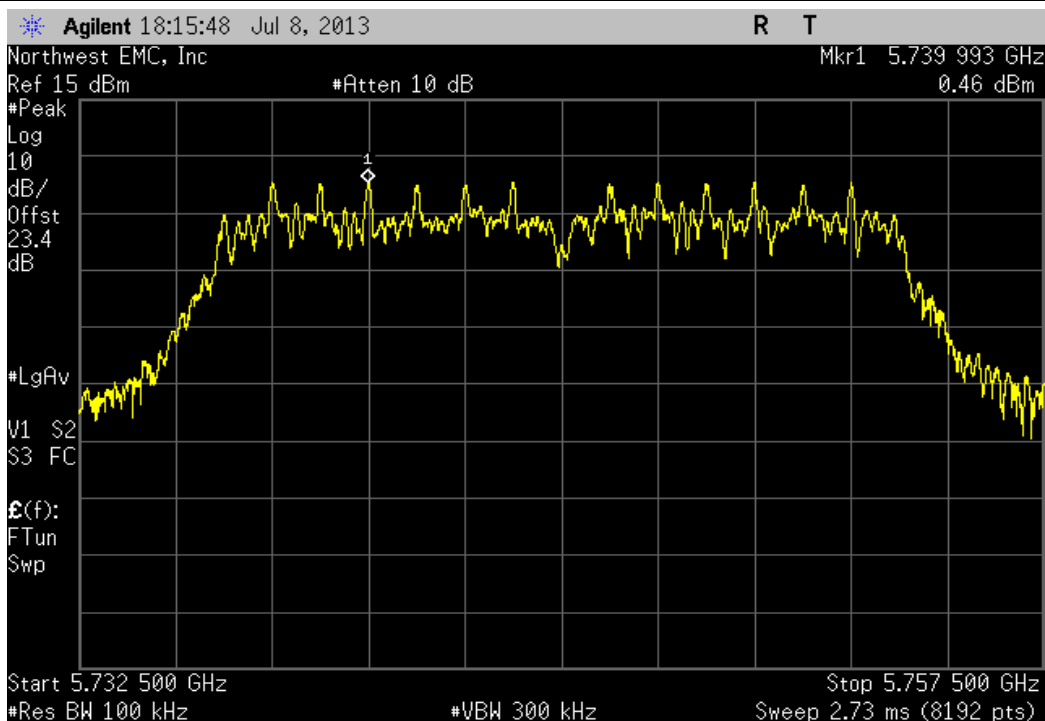
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-35.19 dBc	≤ -20 dBc	Pass

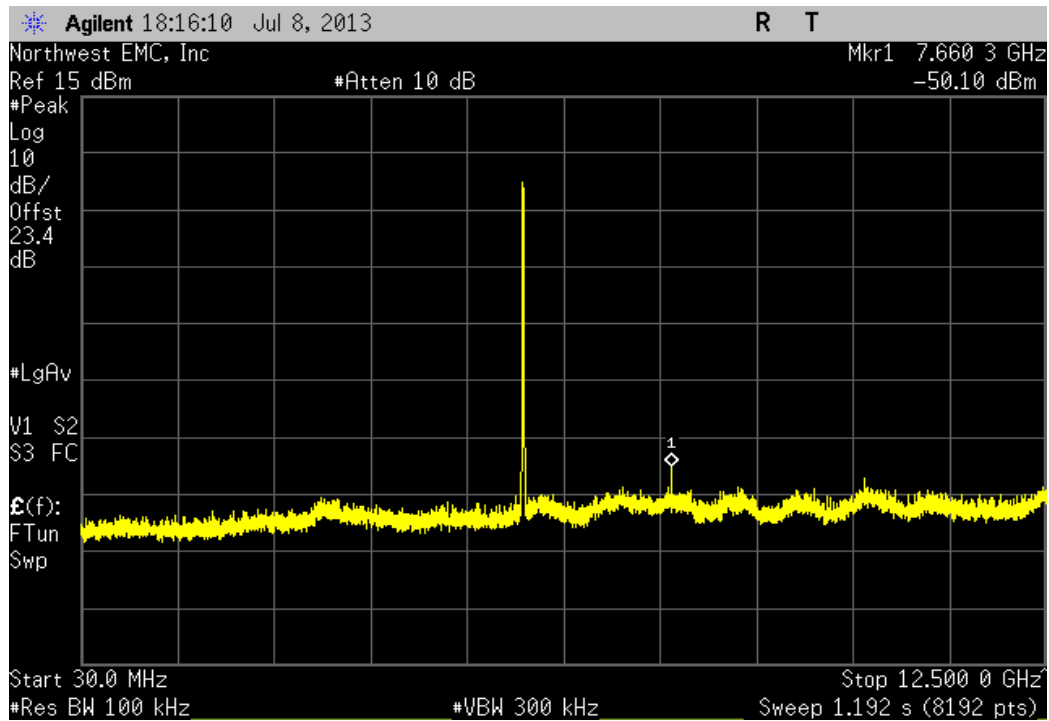


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

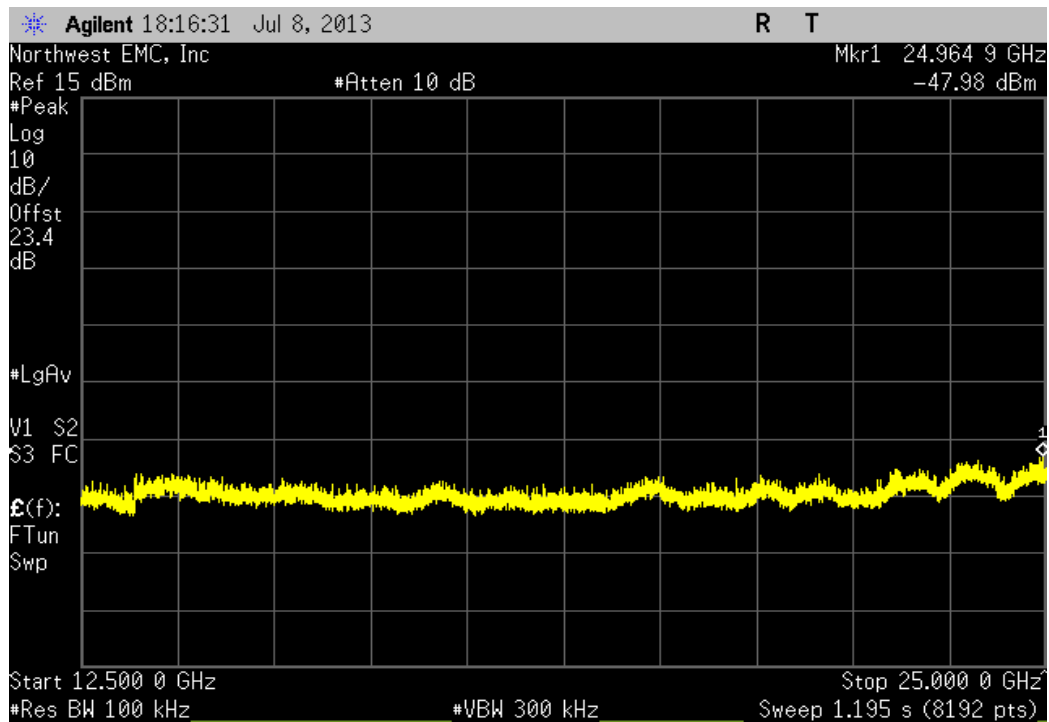
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



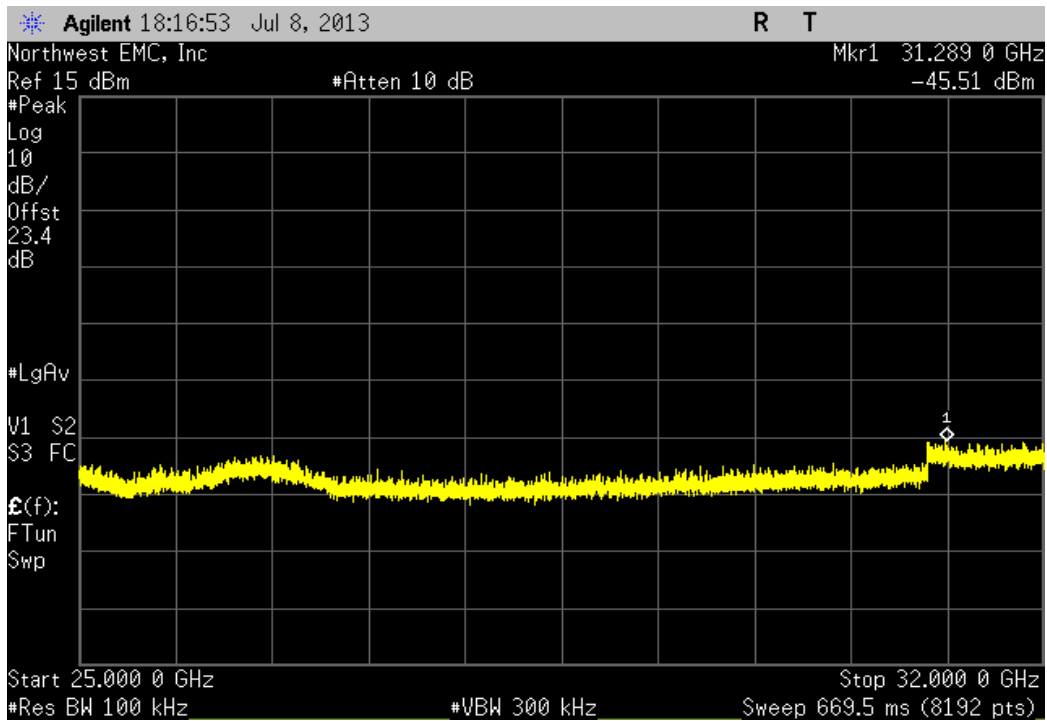
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.56 dBc	≤ -20 dBc	Pass	



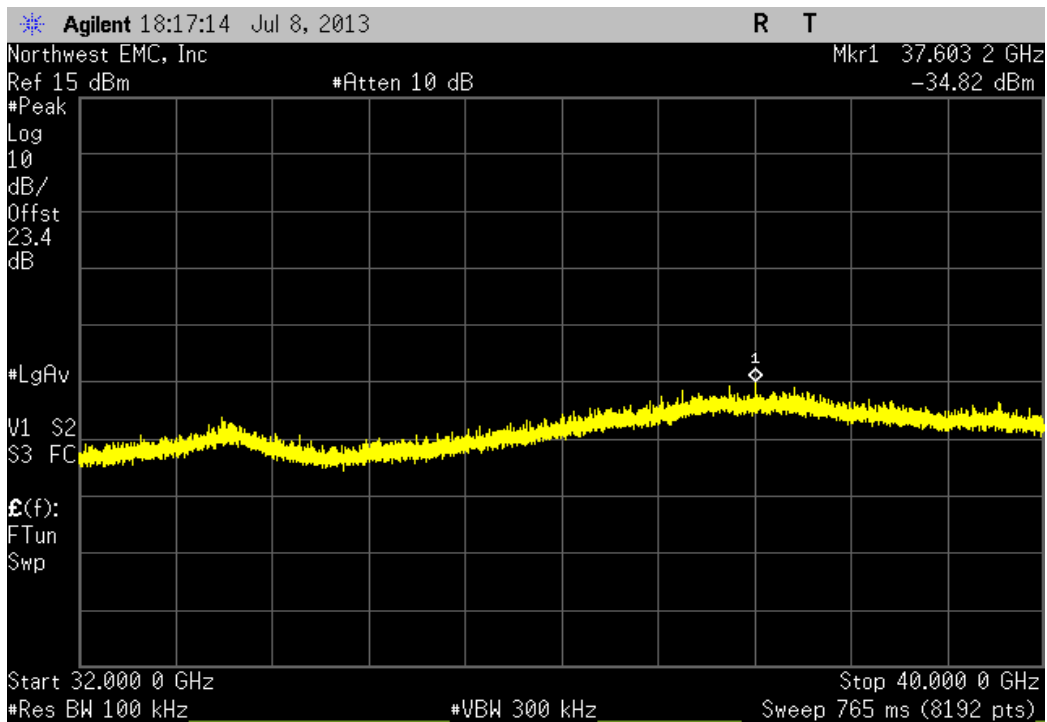
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.44 dBc	≤ -20 dBc	Pass	



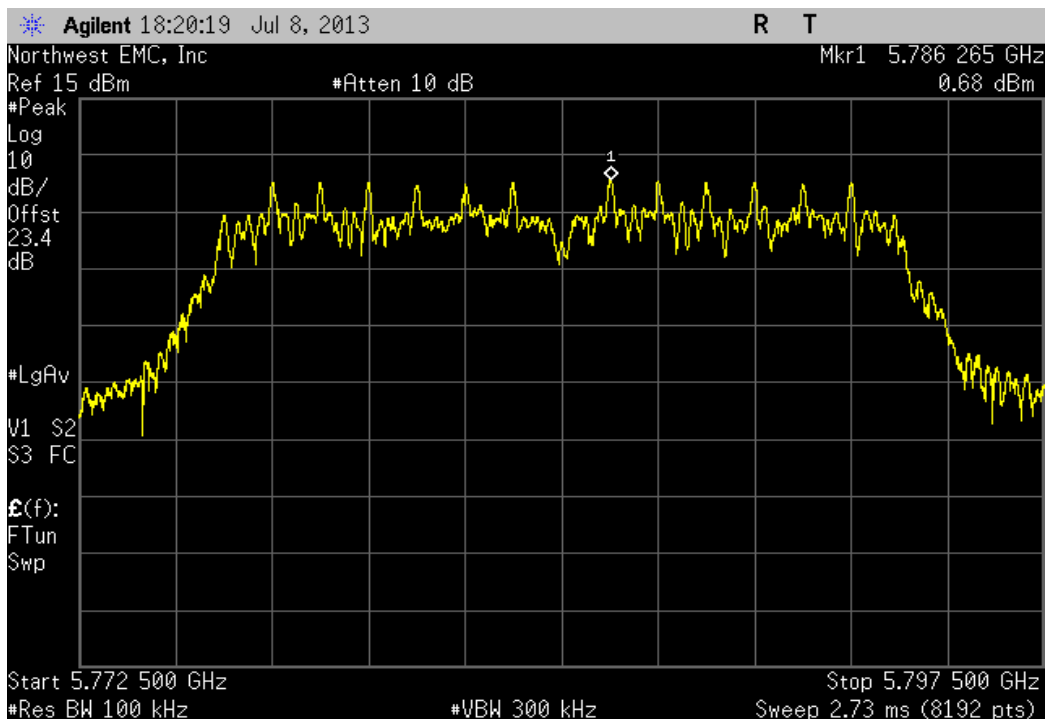
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-45.97 dBc	≤ -20 dBc	Pass	



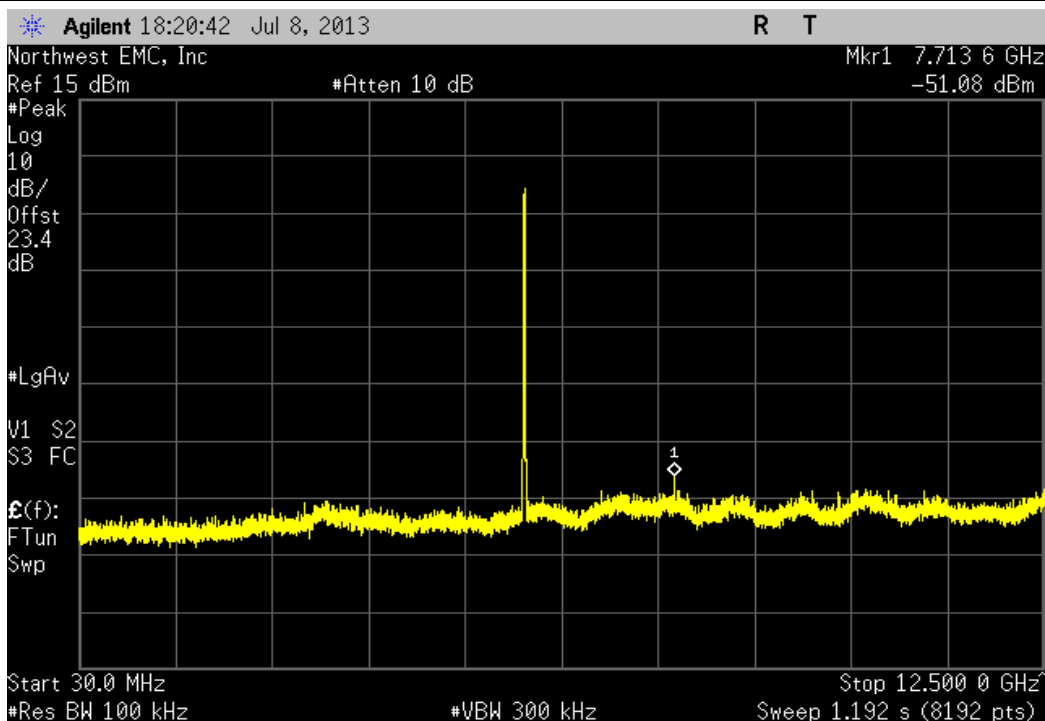
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-35.28 dBc	≤ -20 dBc	Pass	



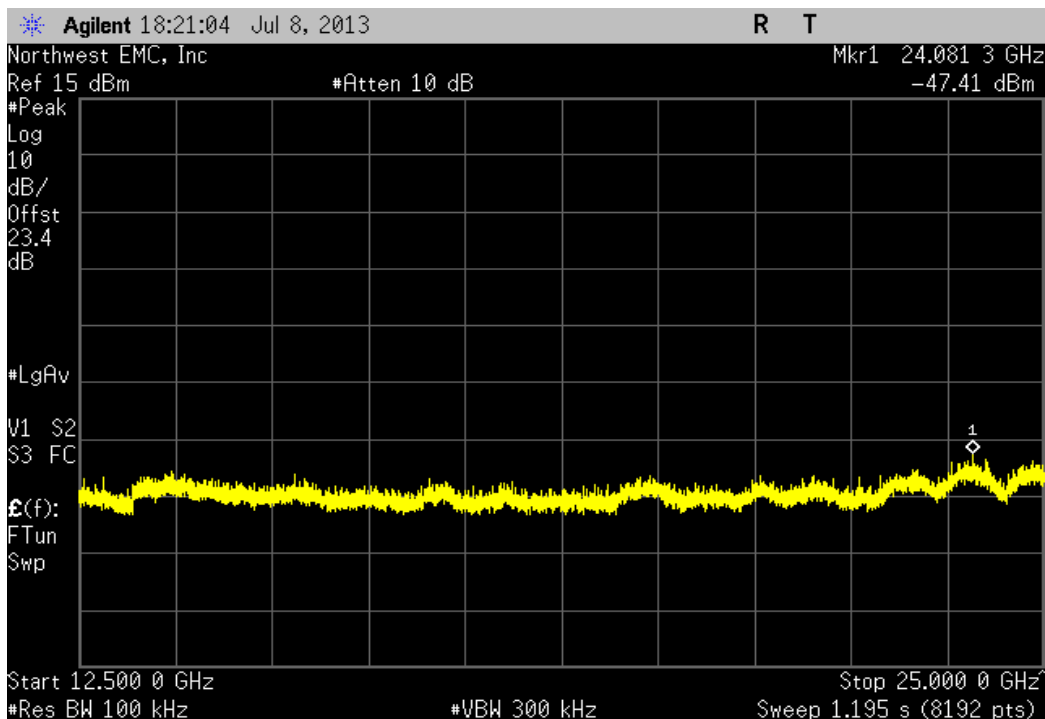
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



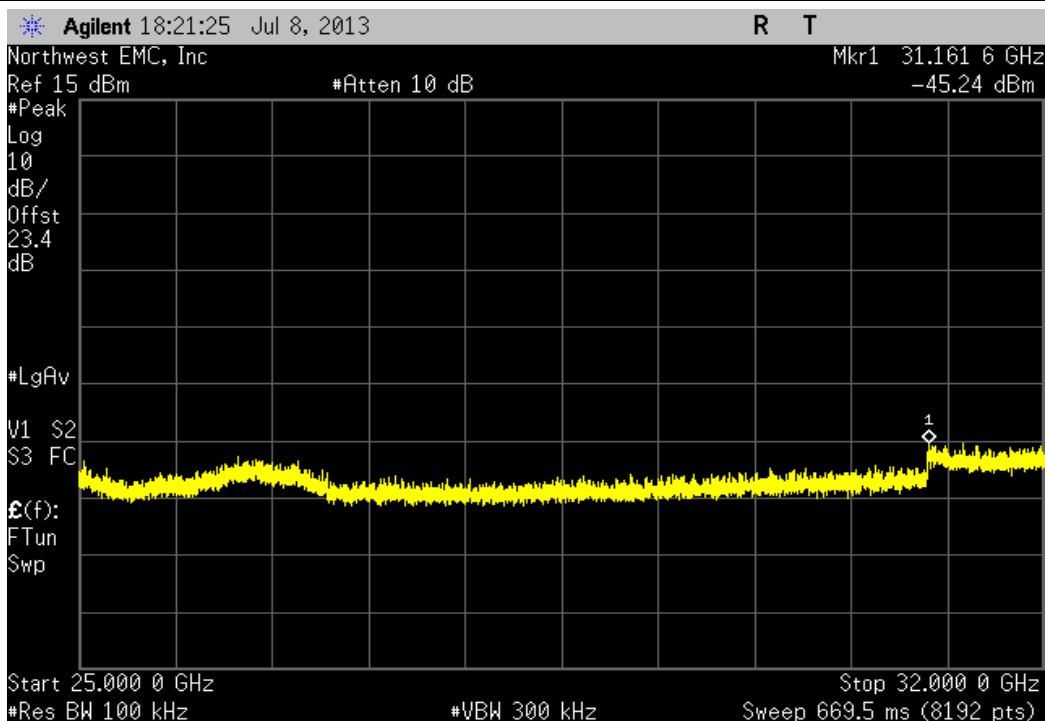
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.76 dBc	≤ -20 dBc	Pass



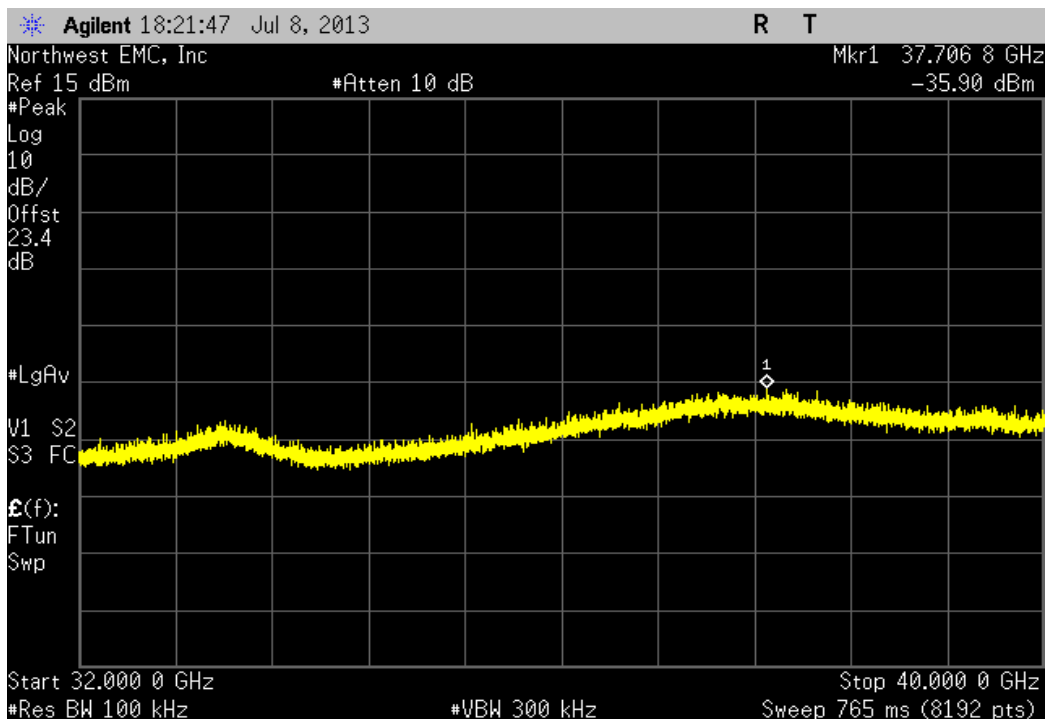
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.09 dBc	≤ -20 dBc	Pass	



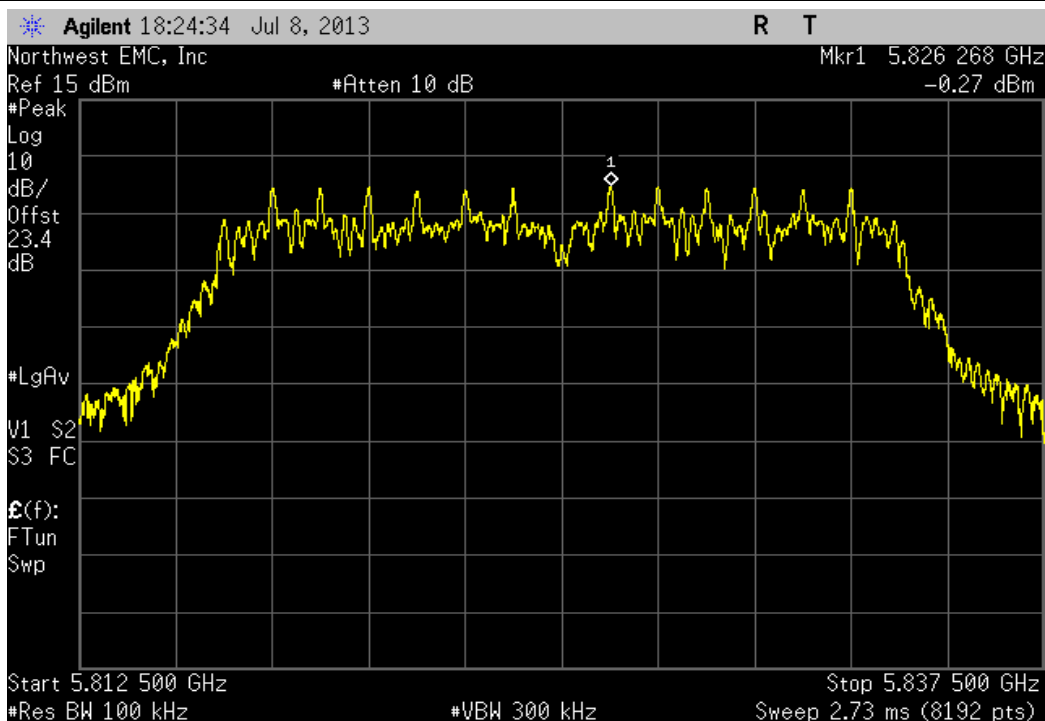
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-45.92 dBc	≤ -20 dBc	Pass	



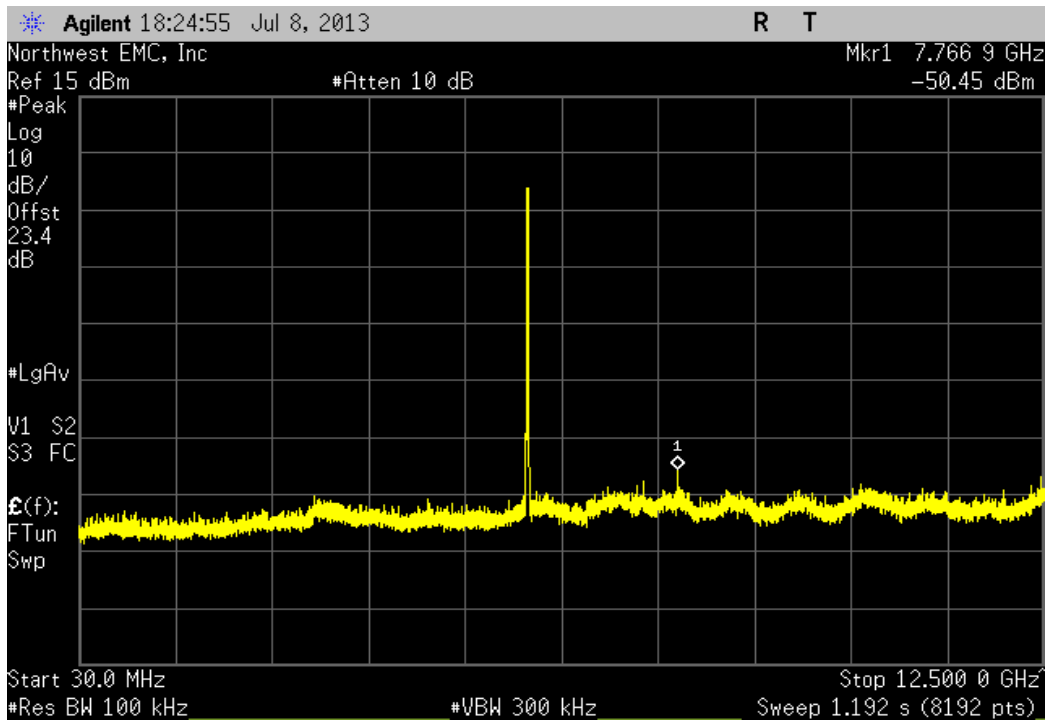
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-36.58 dBc	≤ -20 dBc	Pass



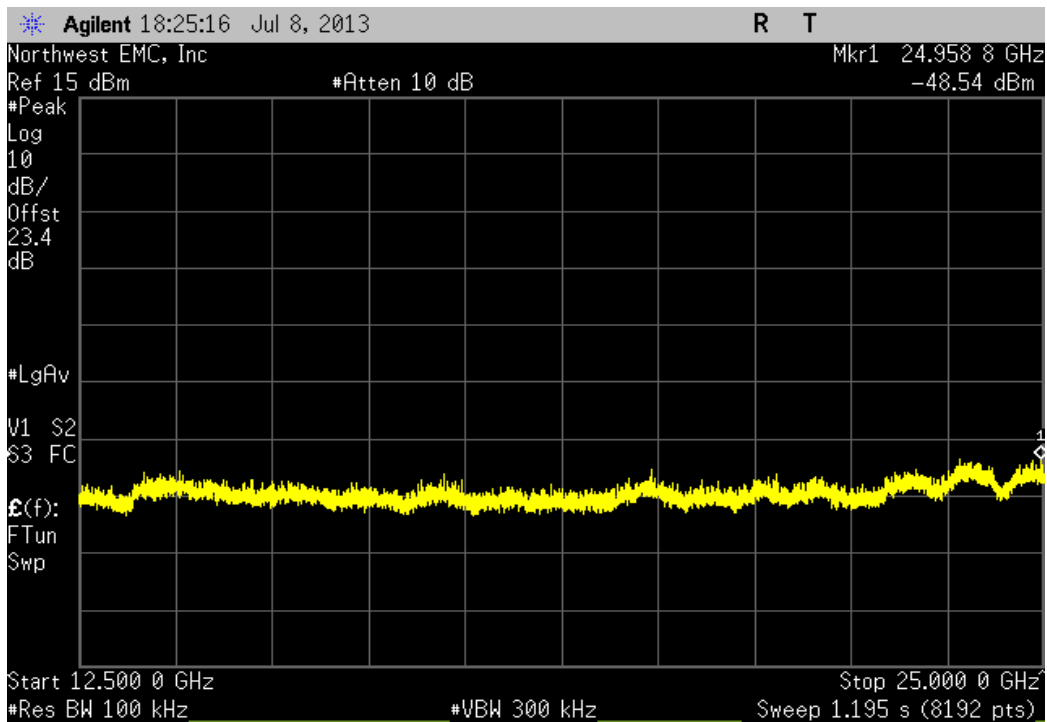
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



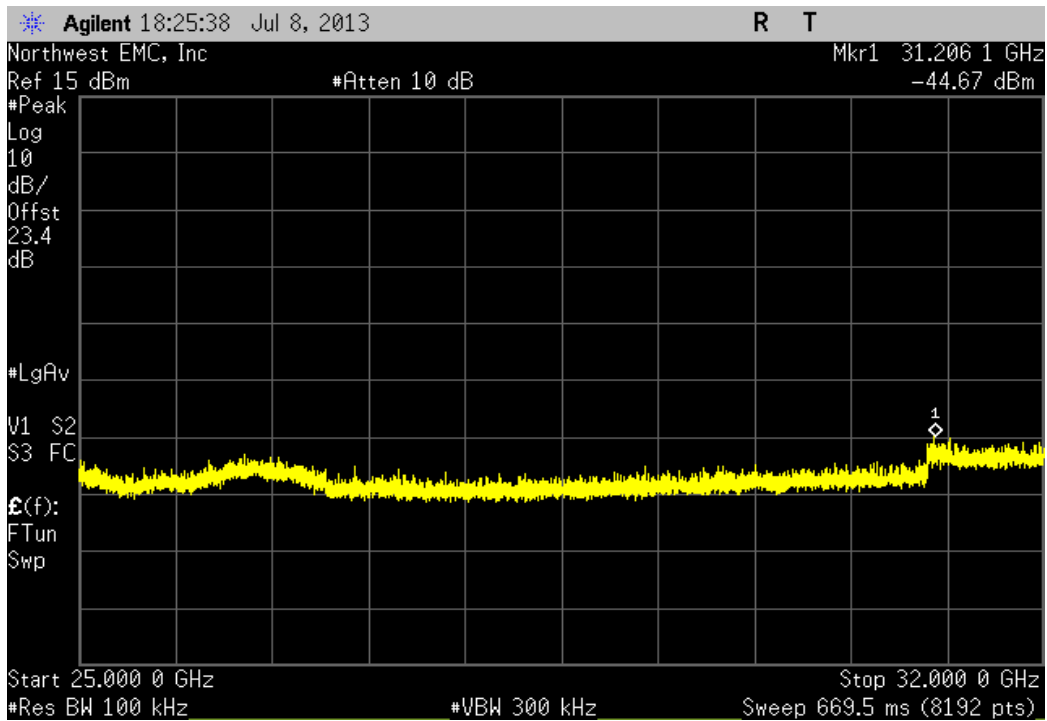
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.18 dBc	≤ -20 dBc	Pass	



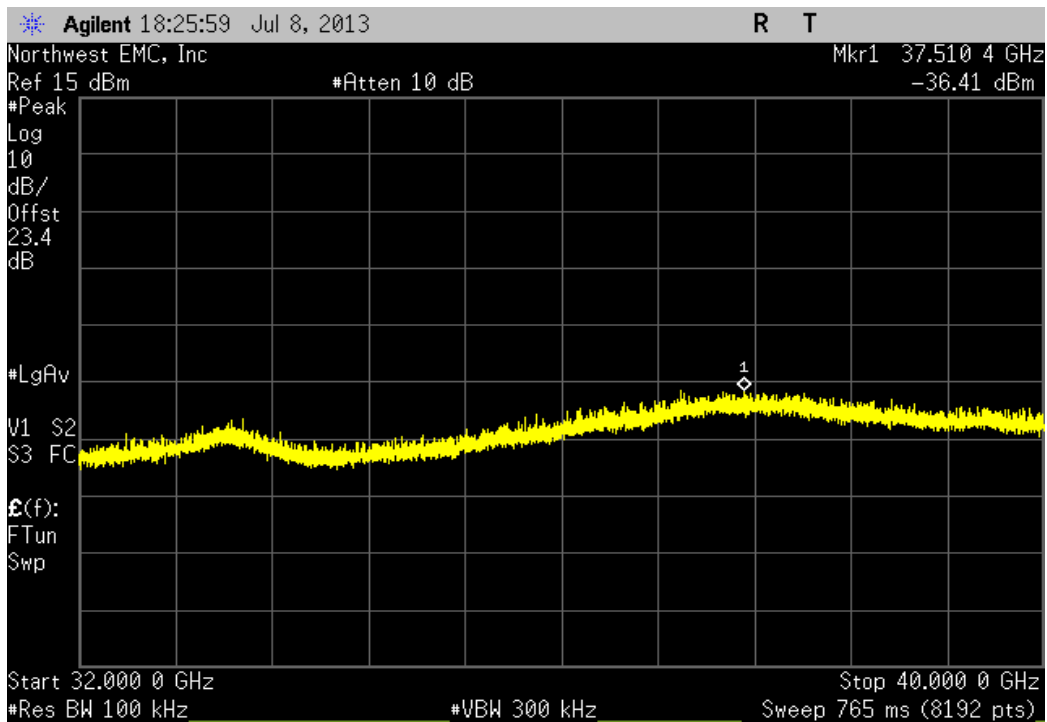
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-48.27 dBc	≤ -20 dBc	Pass	



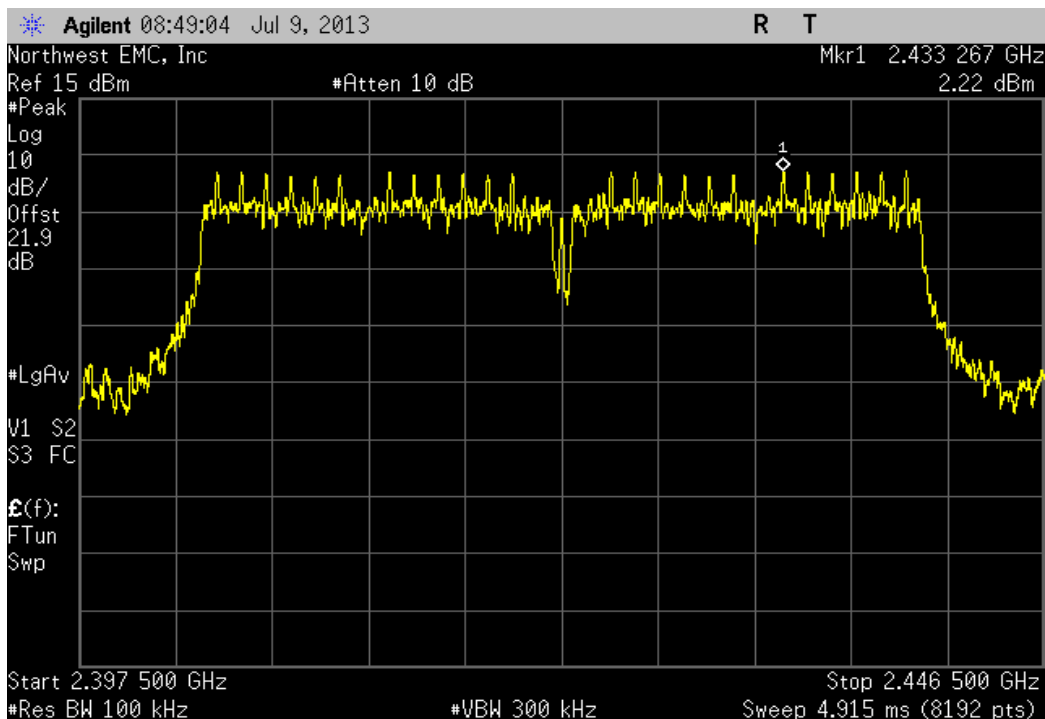
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-44.4 dBc	≤ -20 dBc	Pass



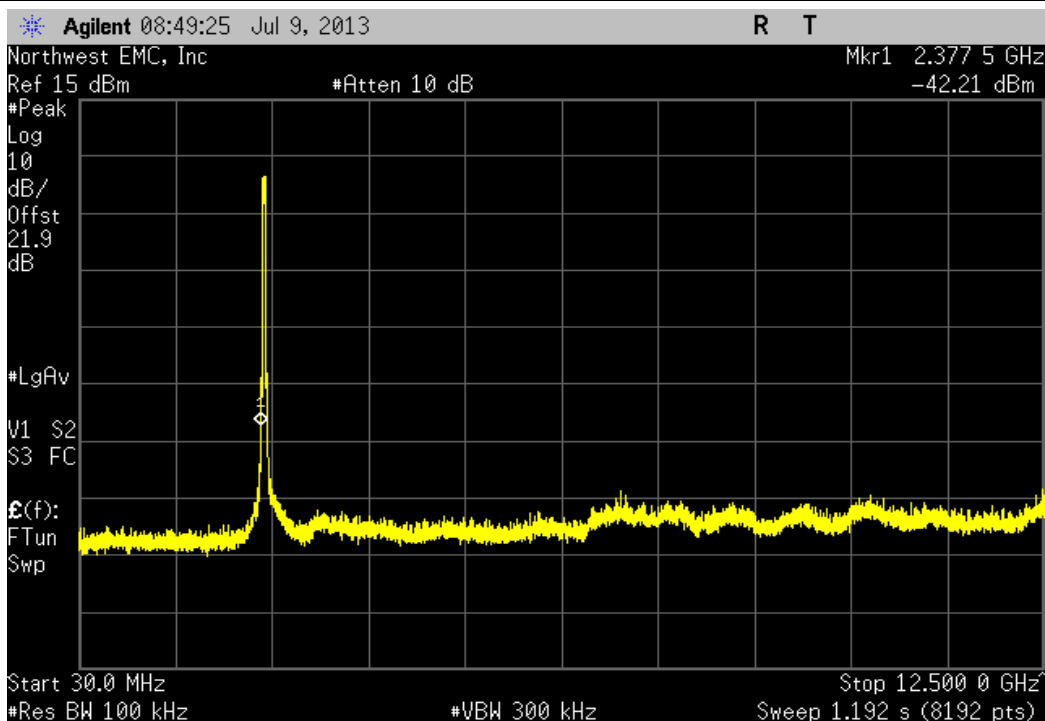
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-36.14 dBc	≤ -20 dBc	Pass



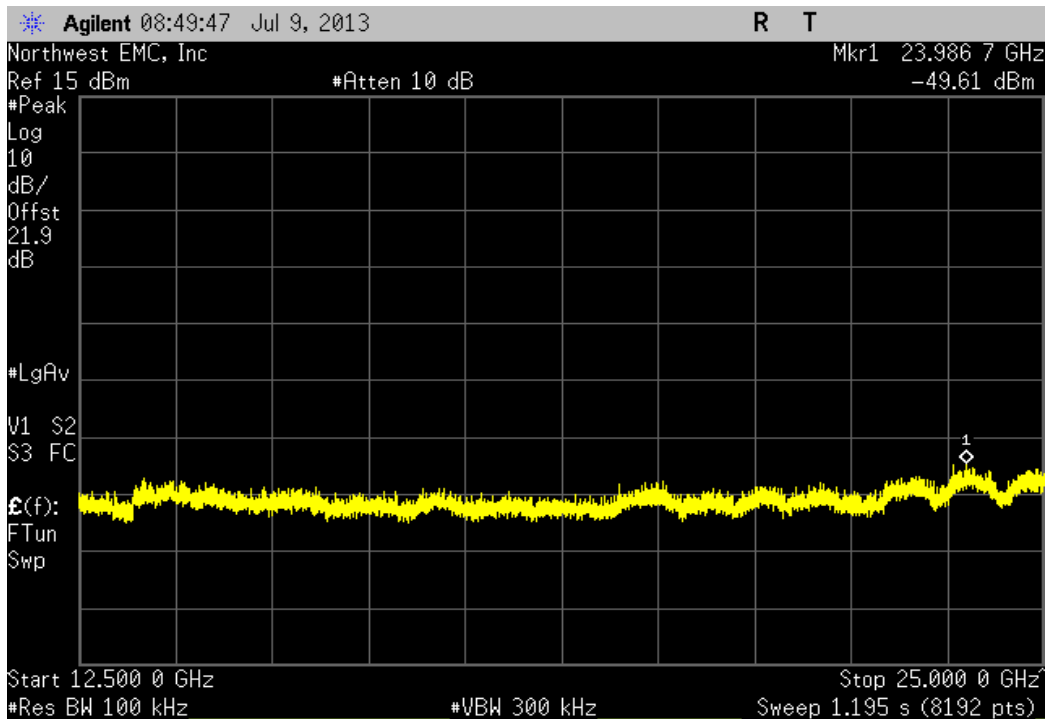
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



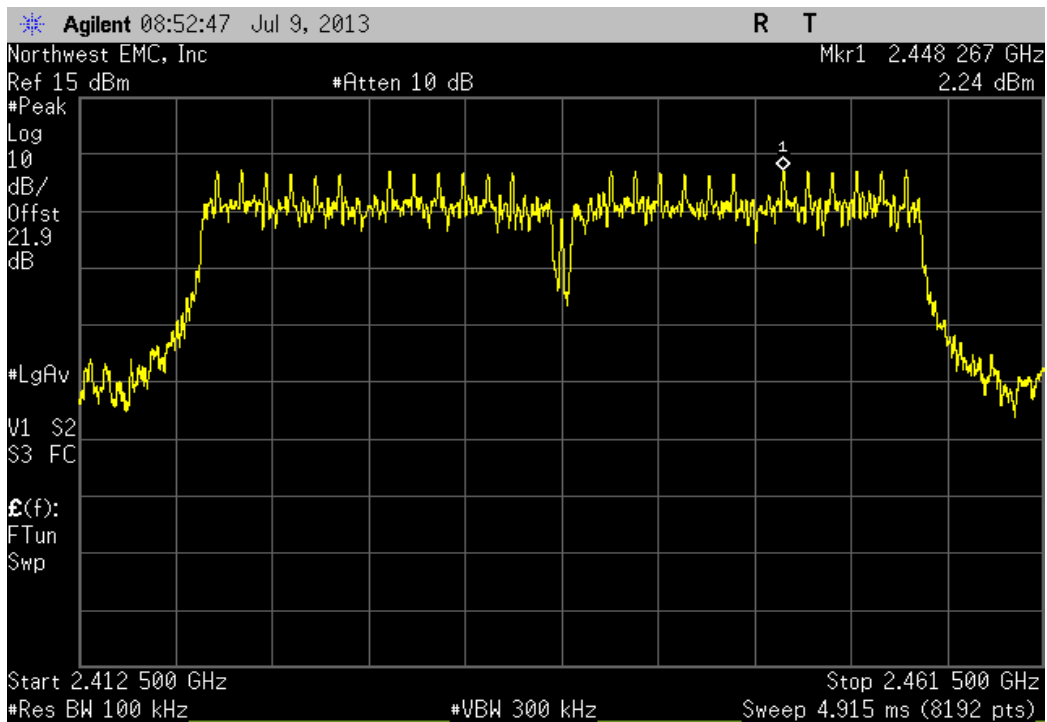
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-44.43 dBc	≤ -20 dBc	Pass



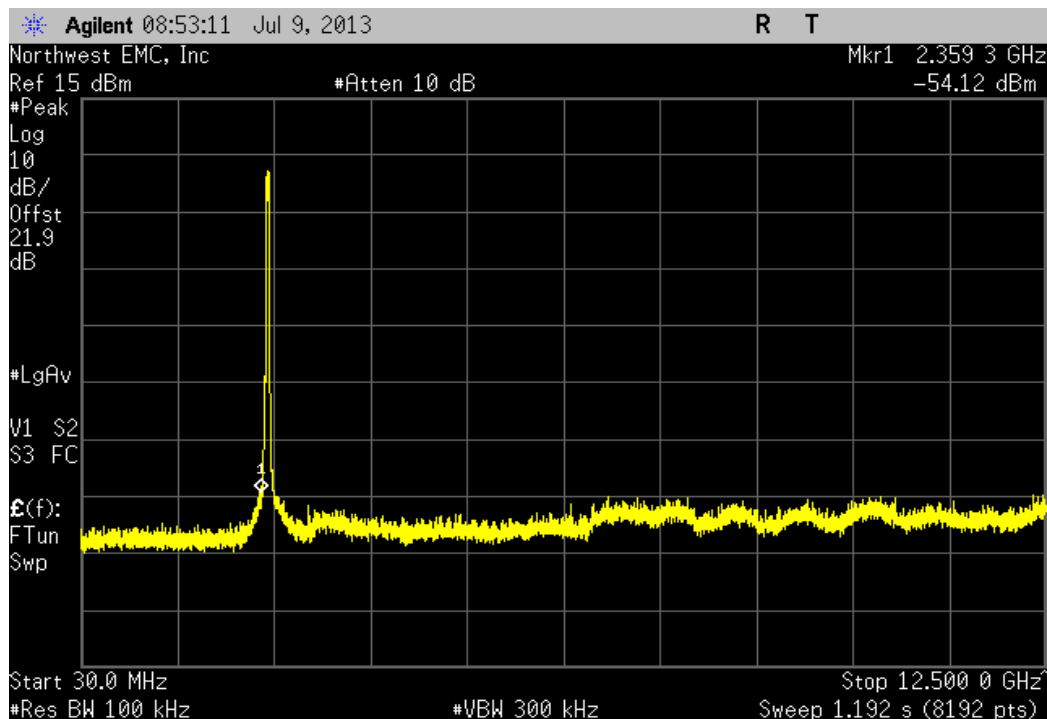
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.83 dBc	≤ -20 dBc	Pass



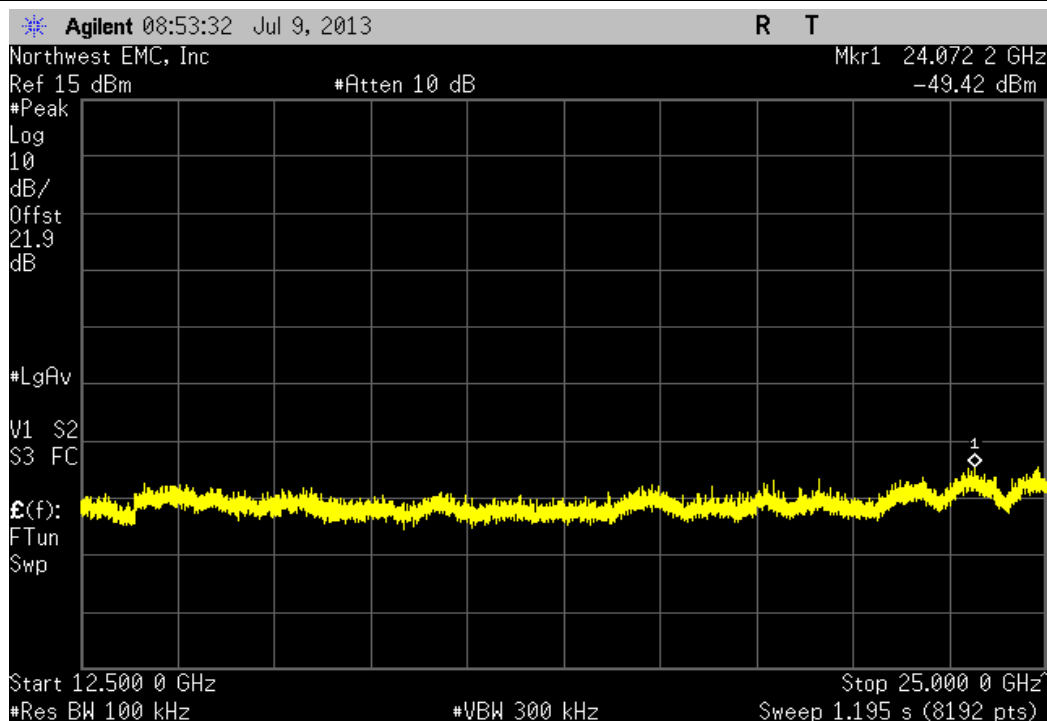
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



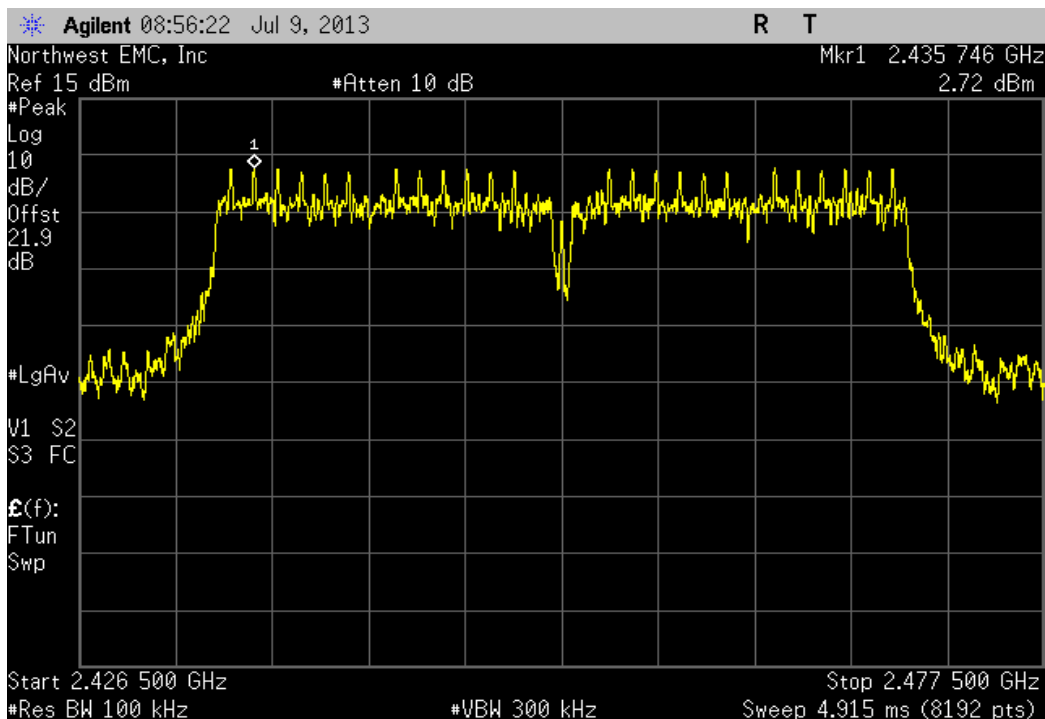
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-56.36 dBc	≤ -20 dBc	Pass	



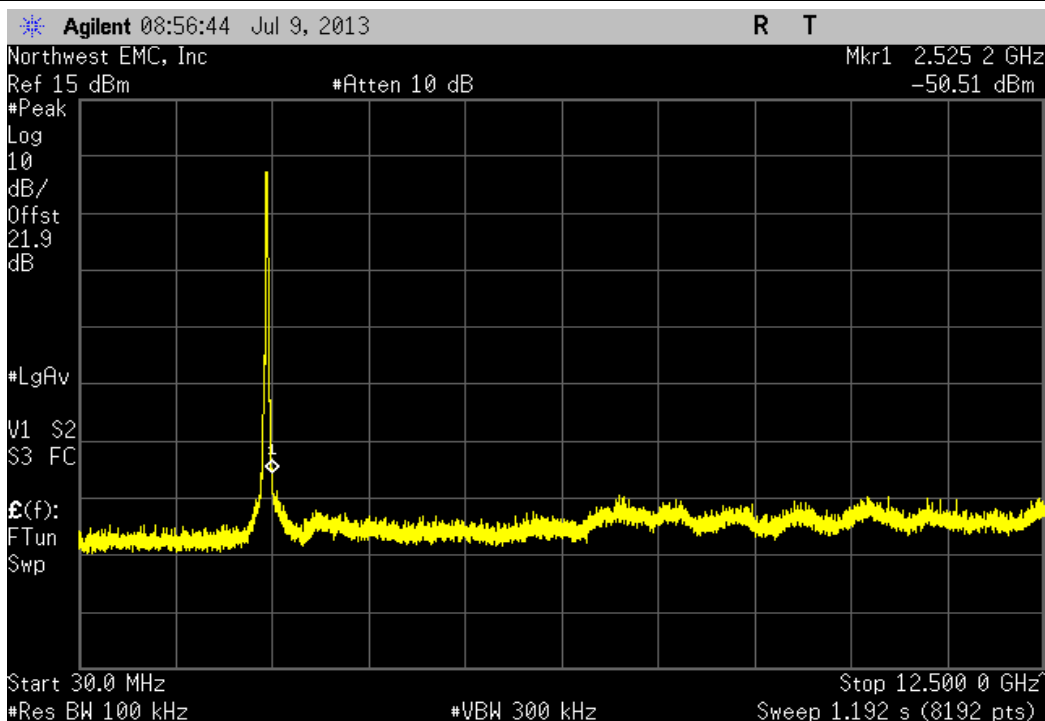
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-51.66 dBc	≤ -20 dBc	Pass	



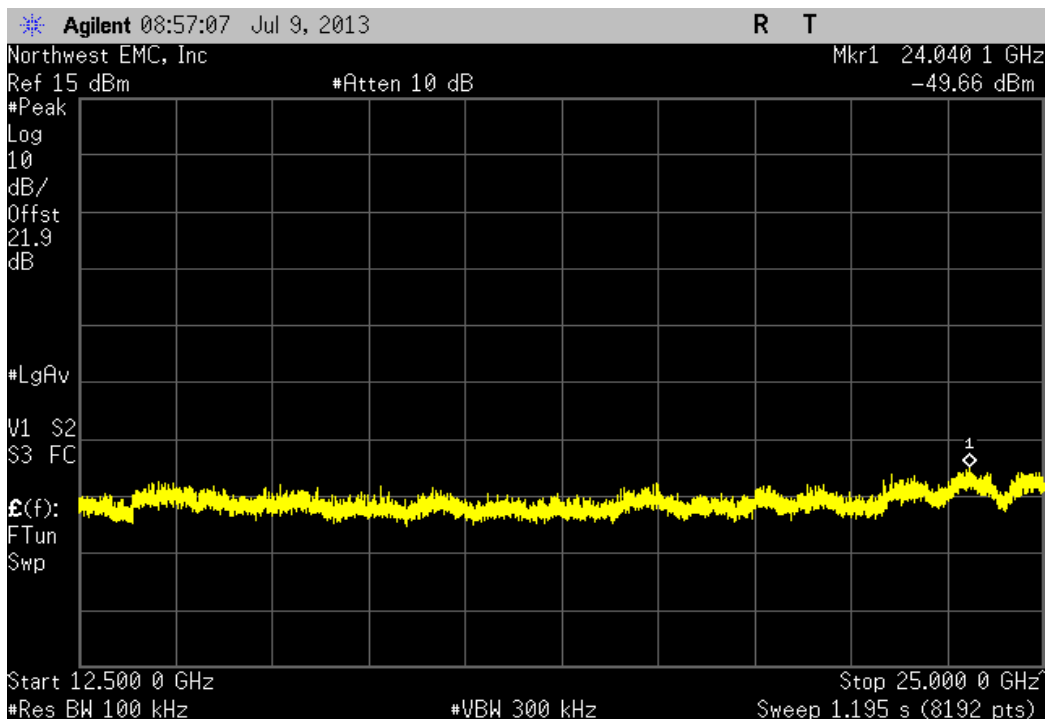
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



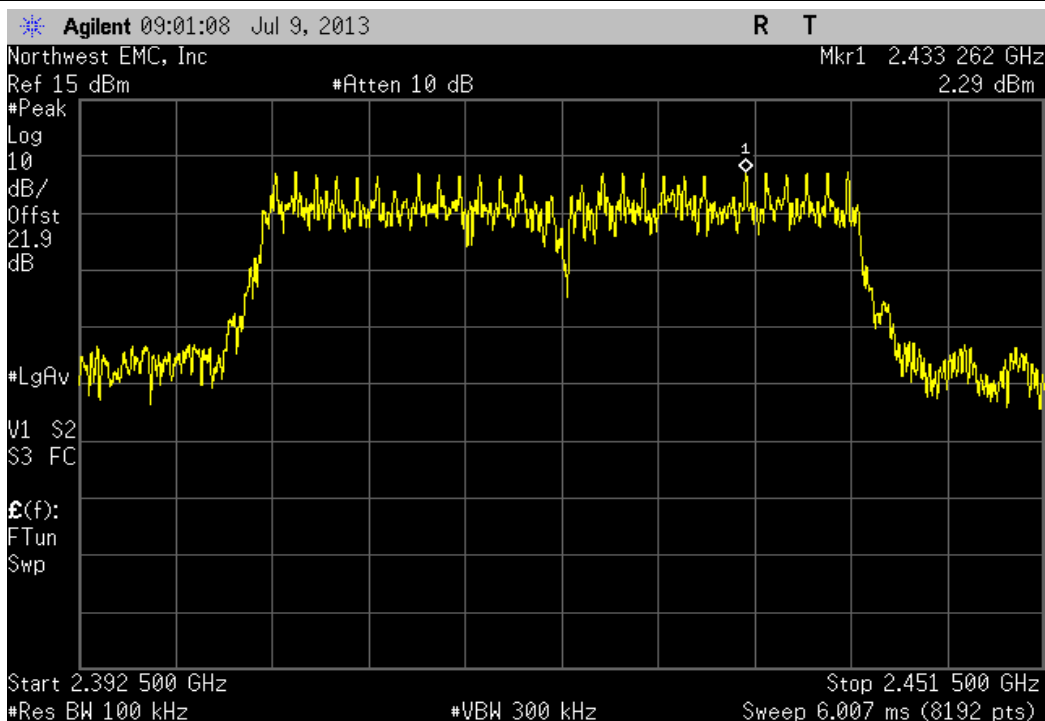
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-53.22 dBc	≤ -20 dBc	Pass



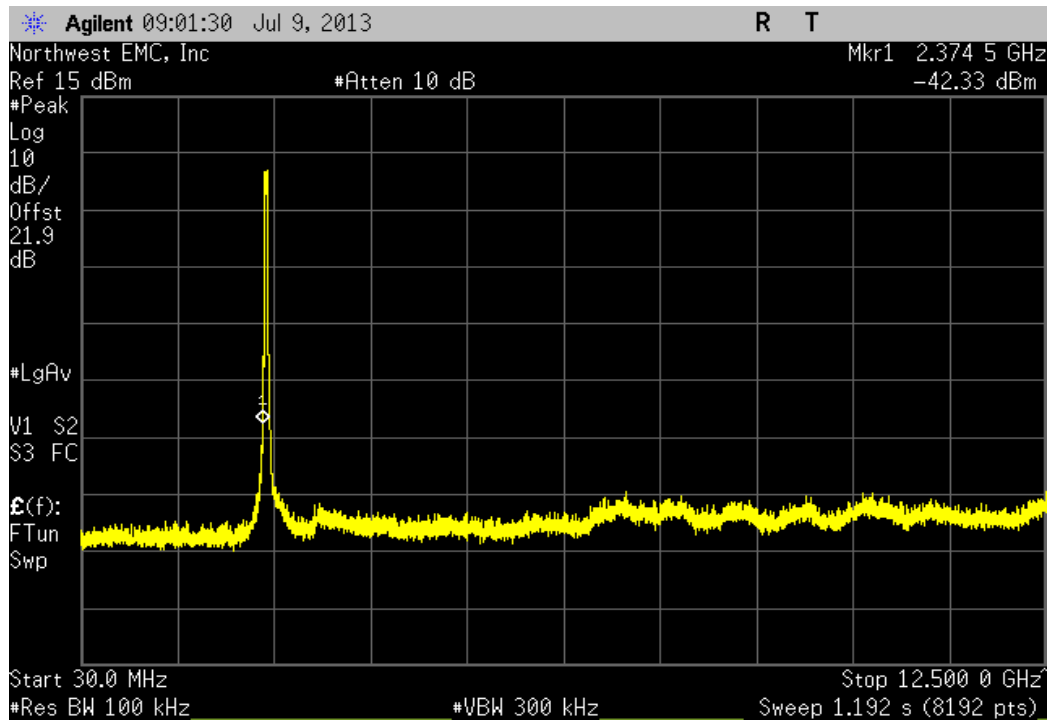
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-52.38 dBc	≤ -20 dBc	Pass



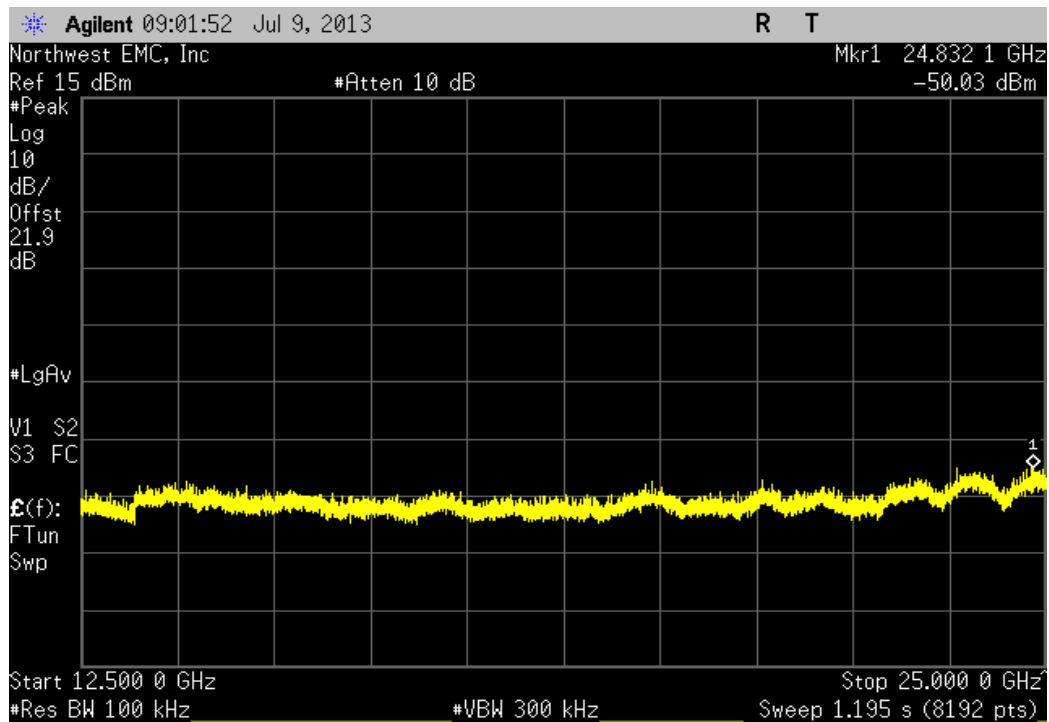
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



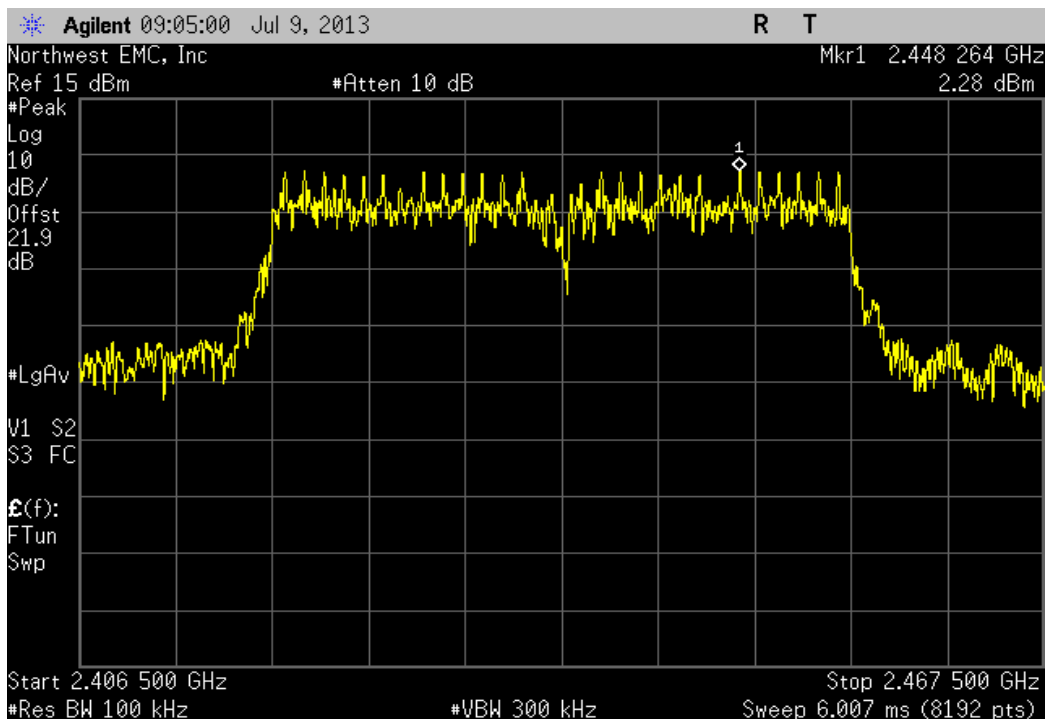
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-44.62 dBc	≤ -20 dBc	Pass	



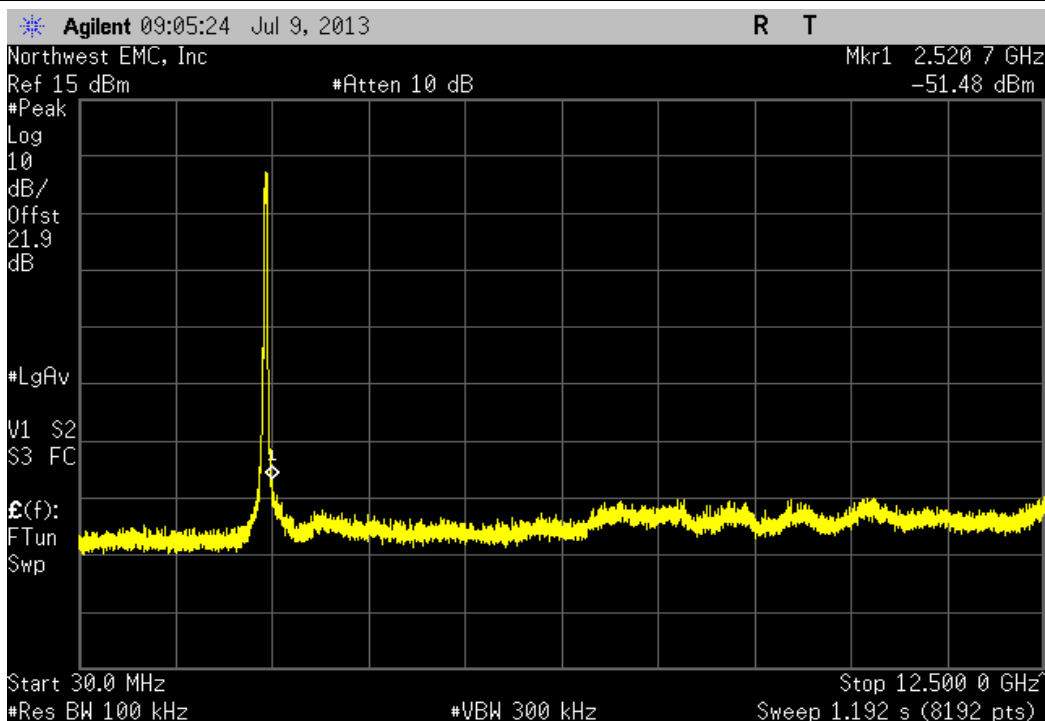
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.32 dBc	≤ -20 dBc	Pass	



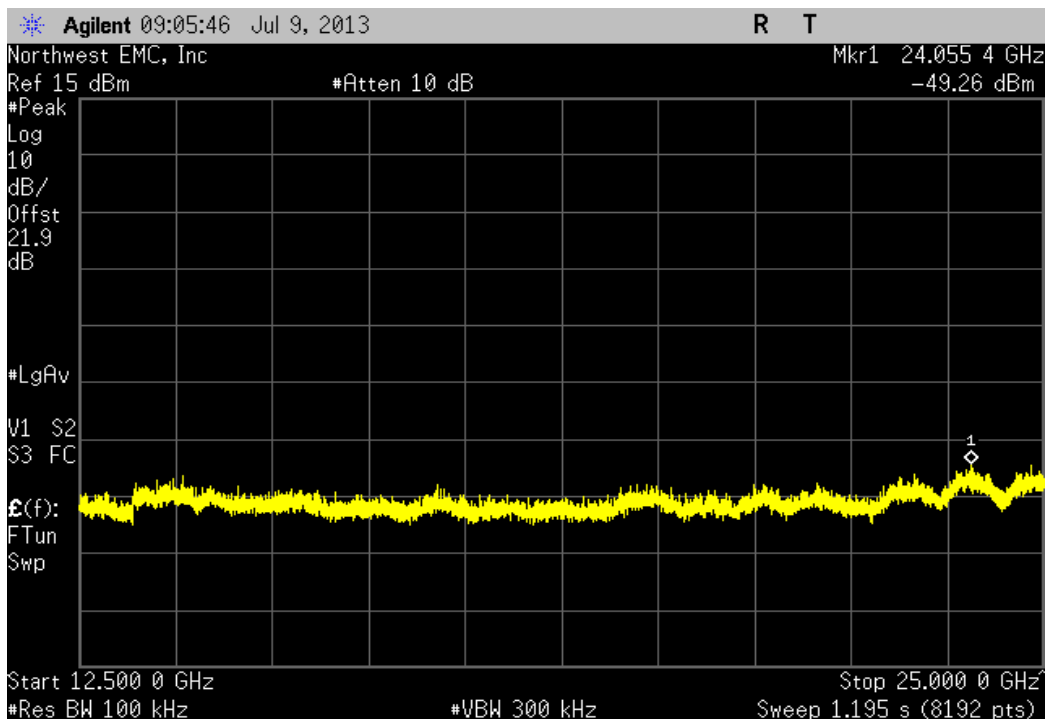
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



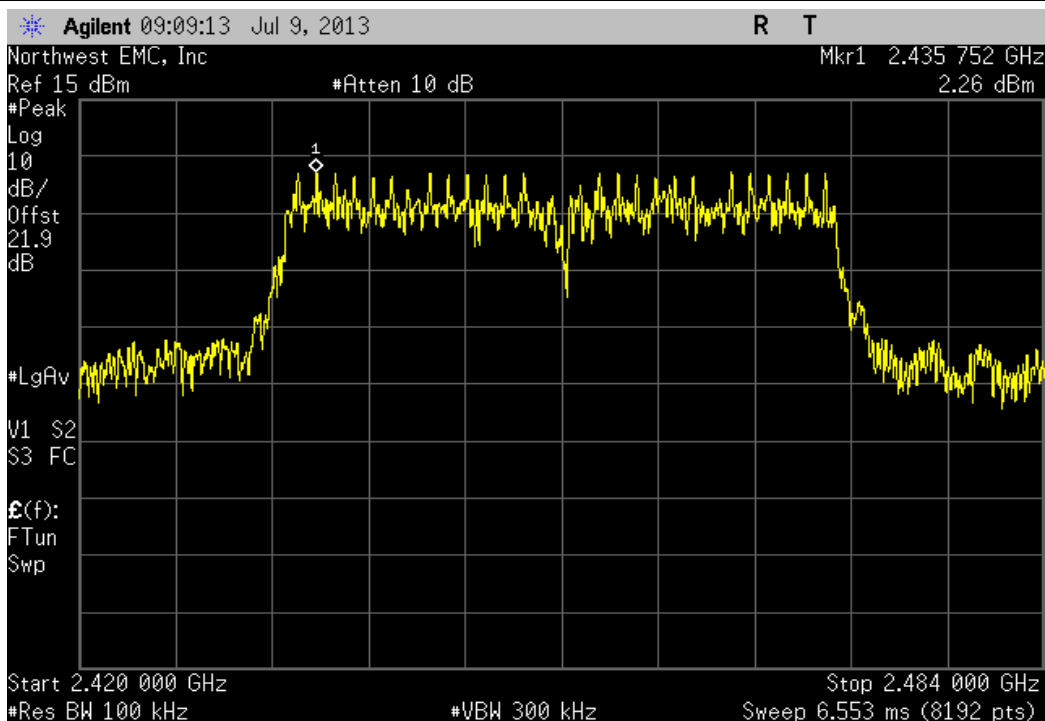
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.76 dBc	≤ -20 dBc	Pass



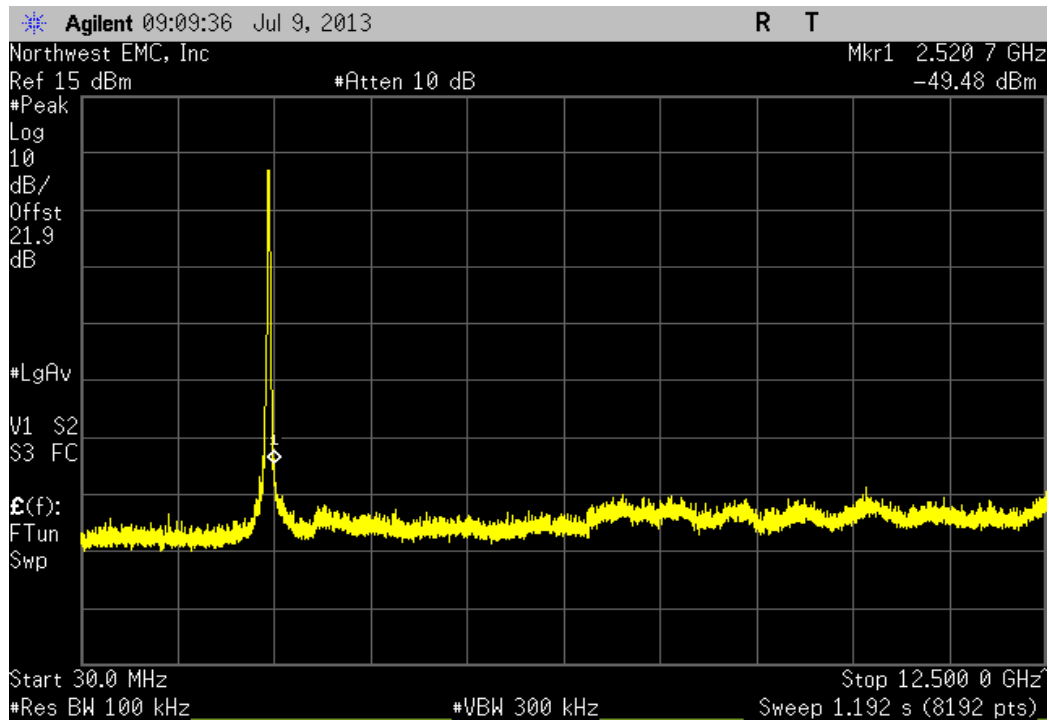
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.54 dBc	≤ -20 dBc	Pass



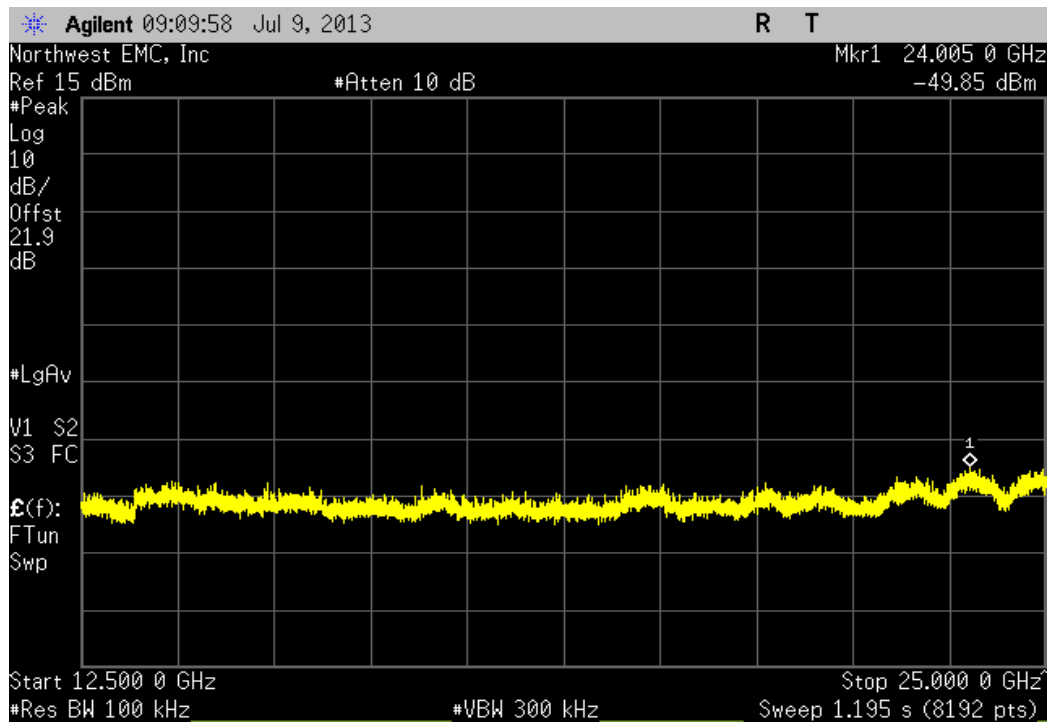
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



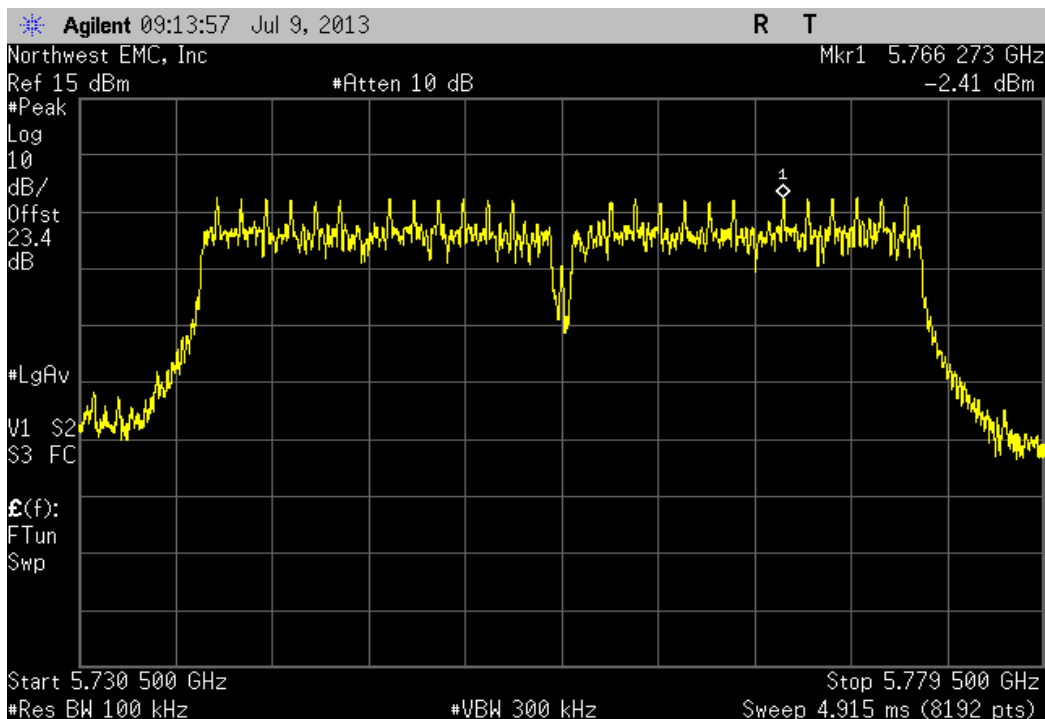
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.74 dBc	≤ -20 dBc	Pass	



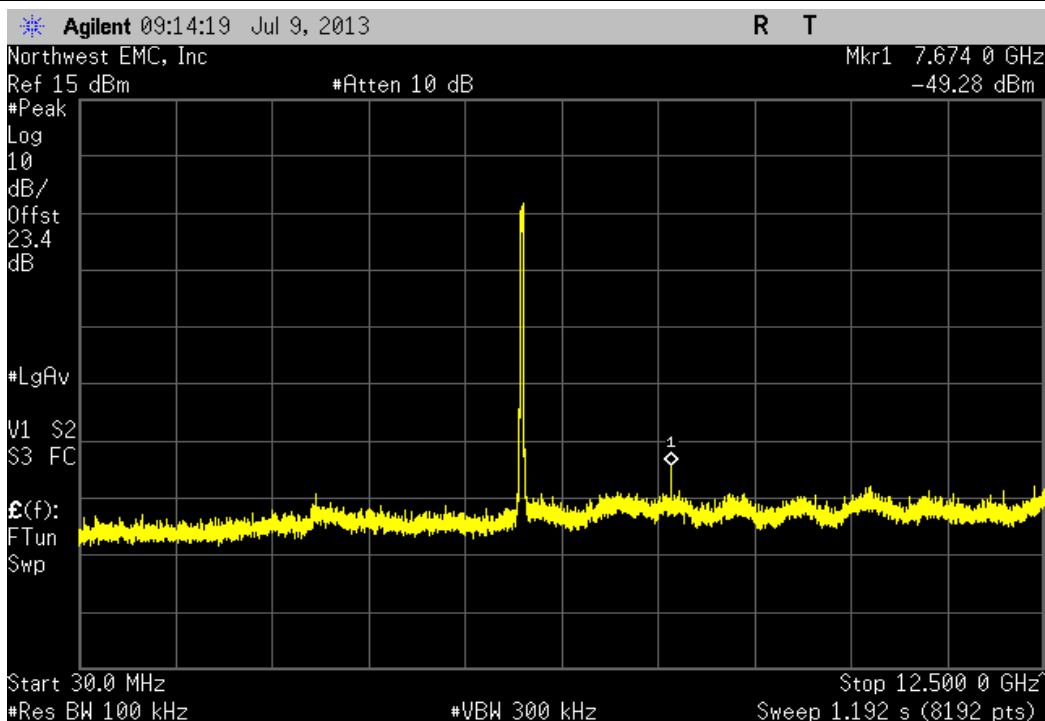
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.1 dBc	≤ -20 dBc	Pass	



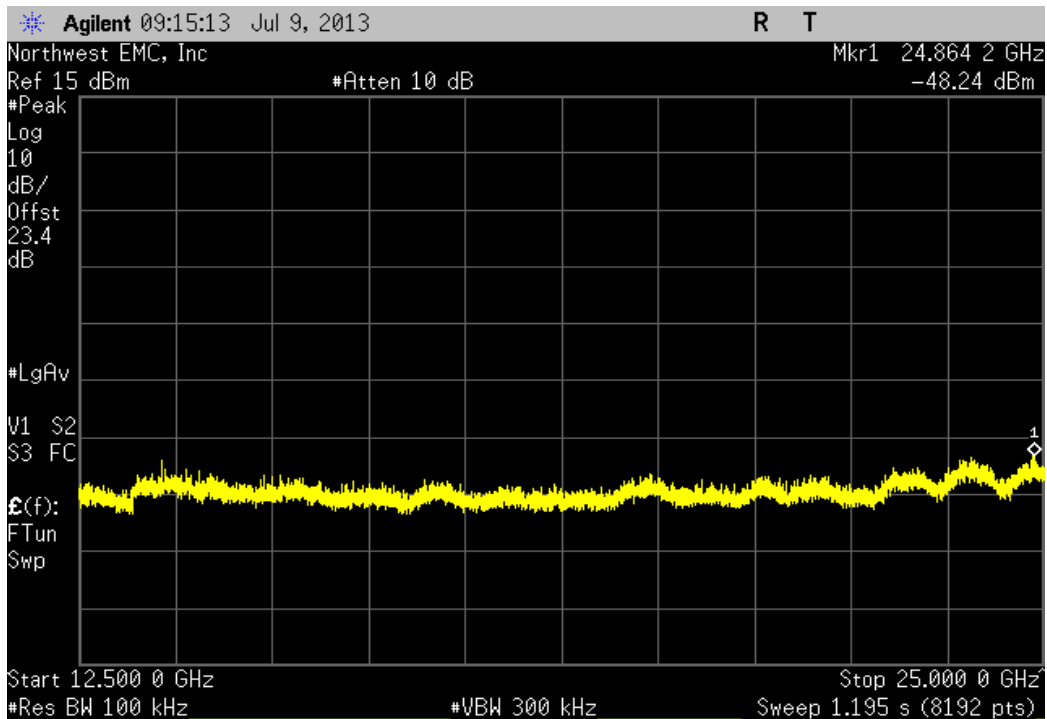
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



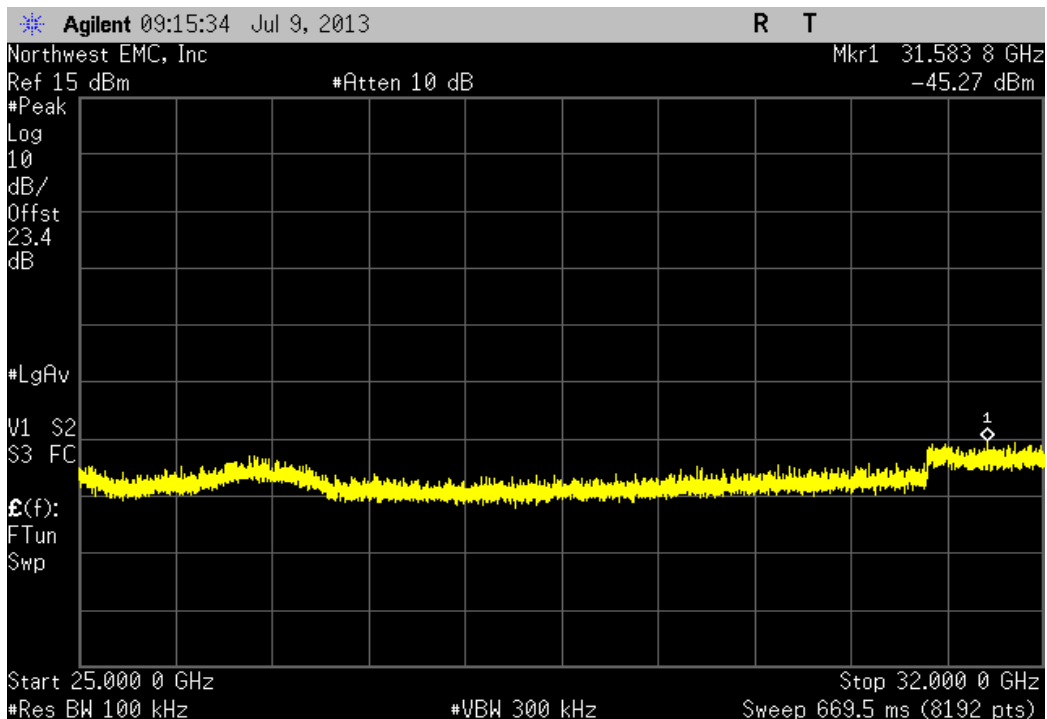
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-46.88 dBc	≤ -20 dBc	Pass



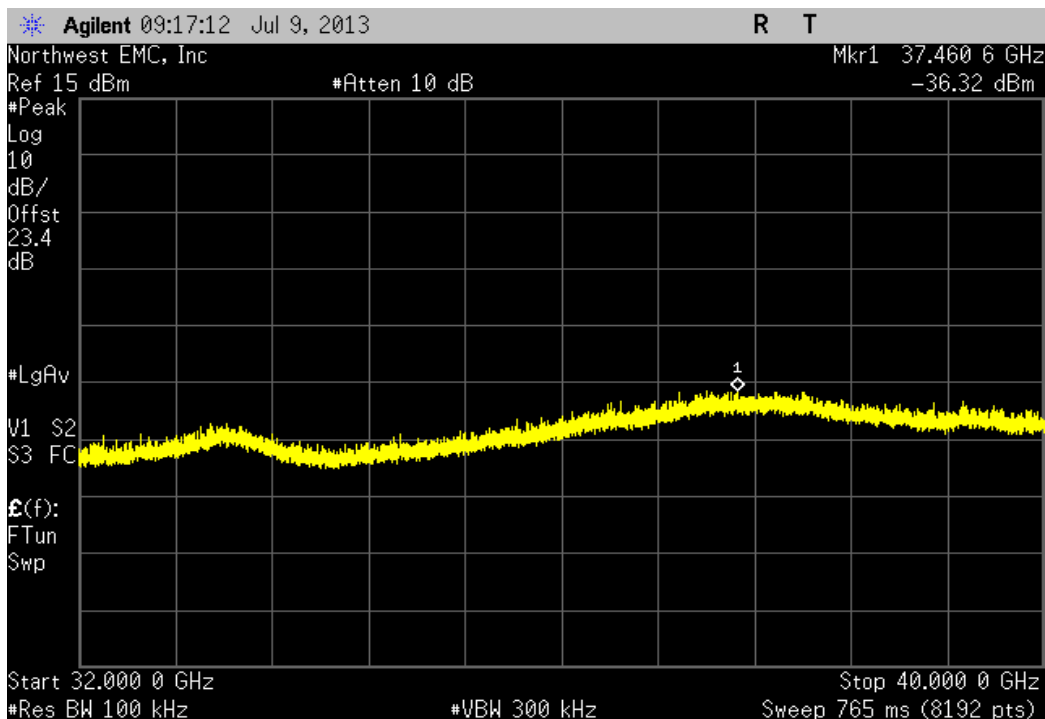
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-45.82 dBc	≤ -20 dBc	Pass



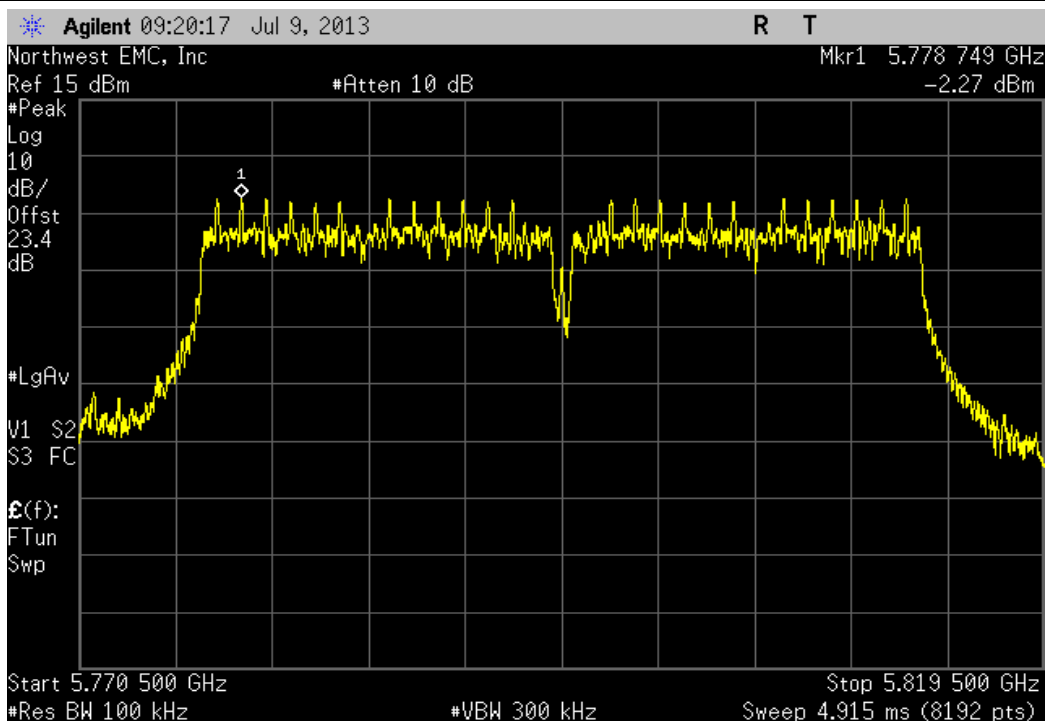
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-42.86 dBc	≤ -20 dBc	Pass



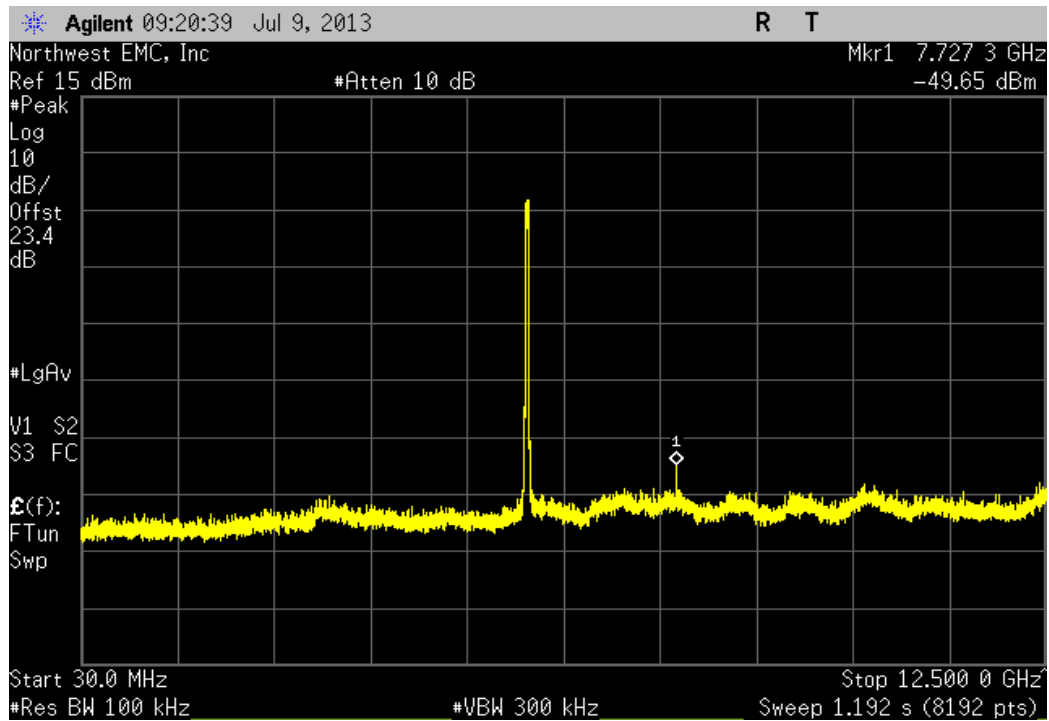
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.91 dBc	≤ -20 dBc	Pass



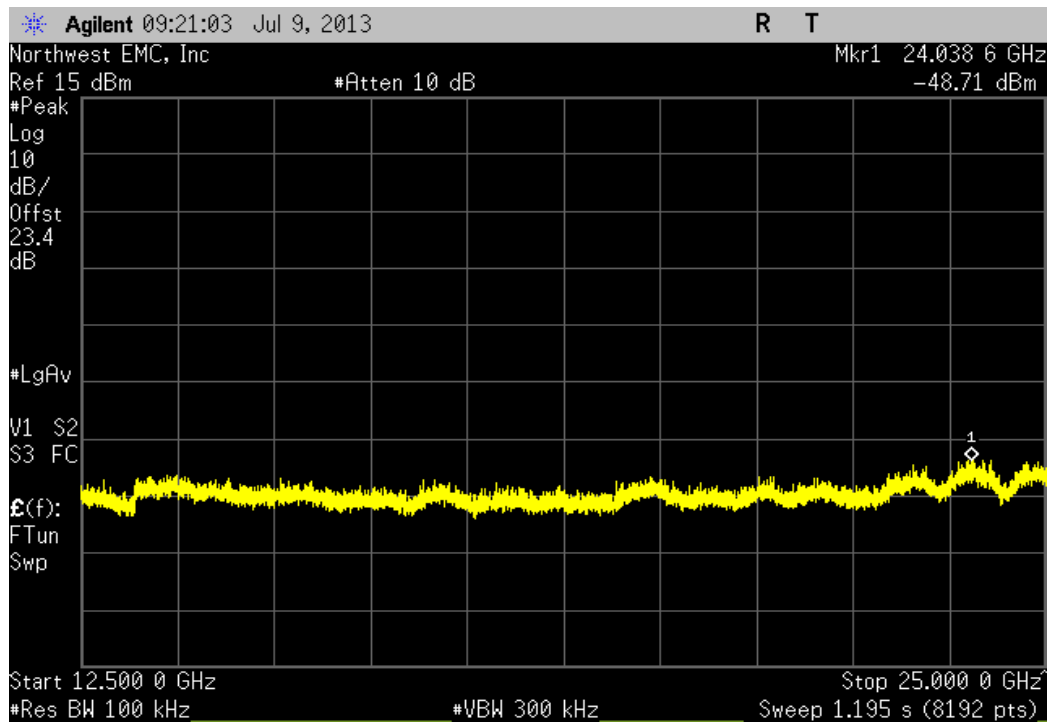
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



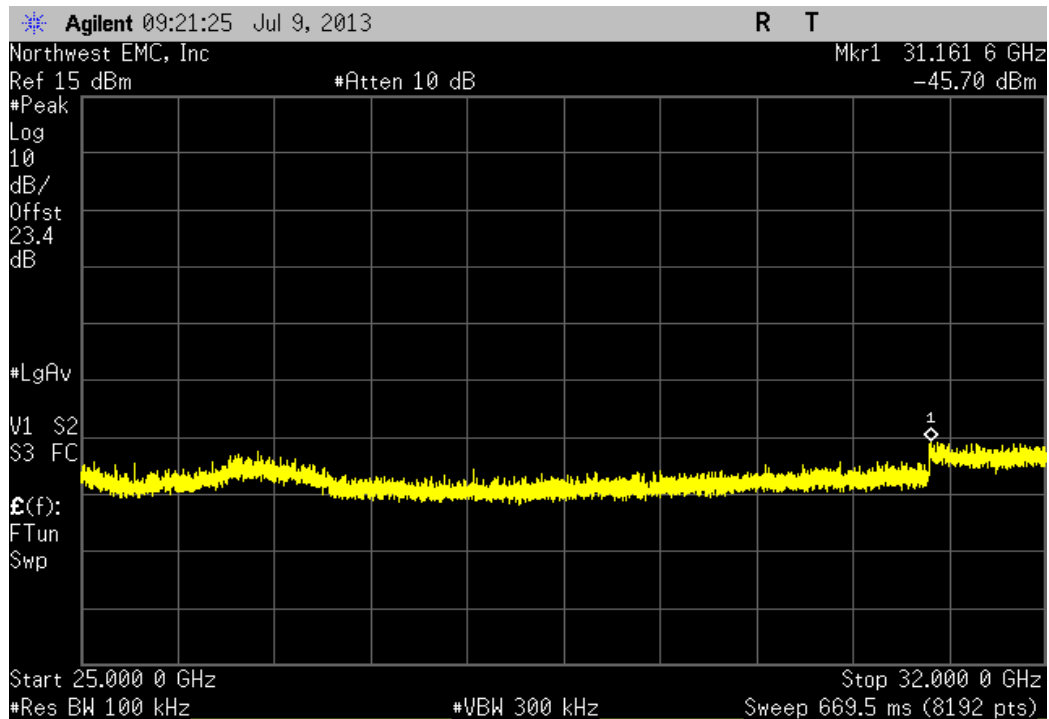
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-47.38 dBc	≤ -20 dBc	Pass	



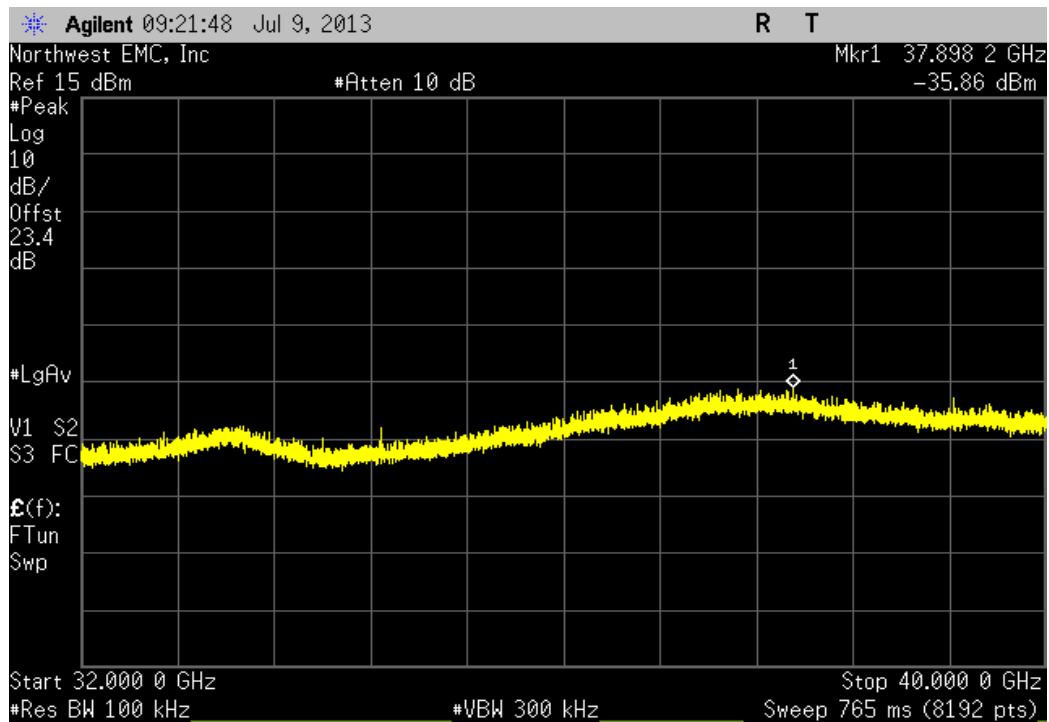
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.44 dBc	≤ -20 dBc	Pass	



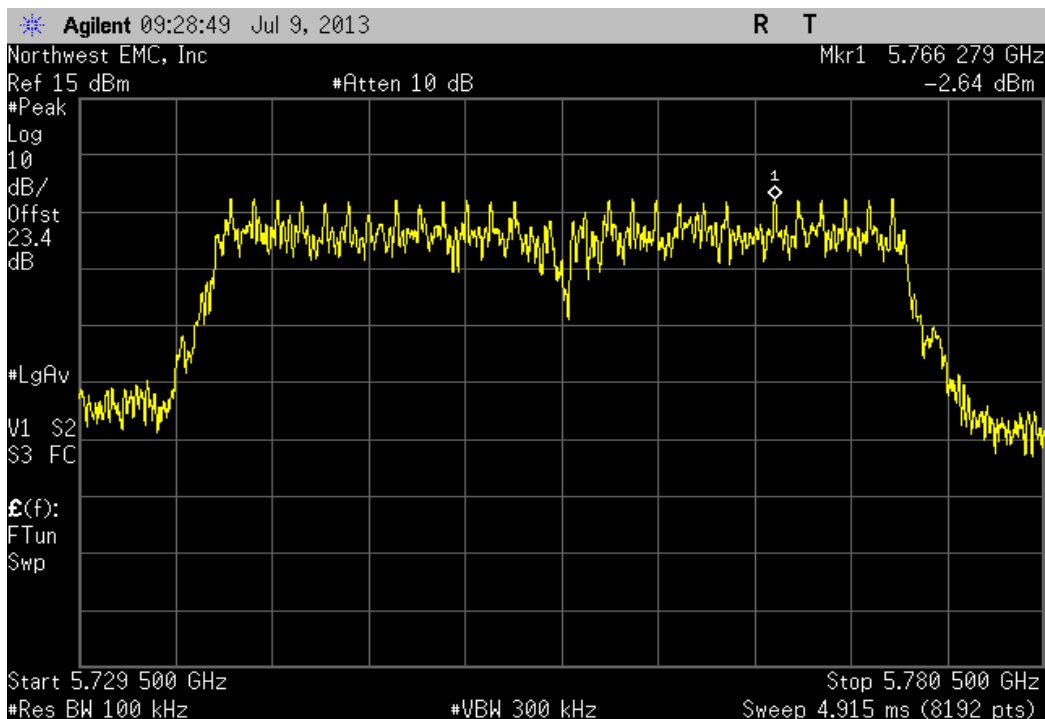
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-43.43 dBc	≤ -20 dBc	Pass



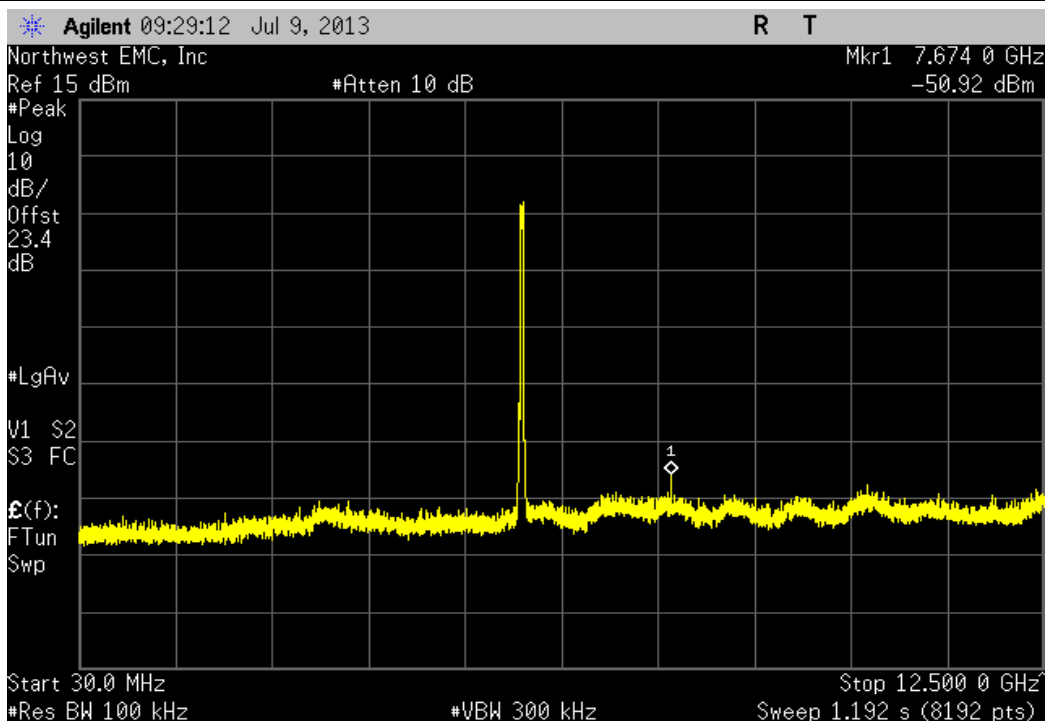
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.59 dBc	≤ -20 dBc	Pass



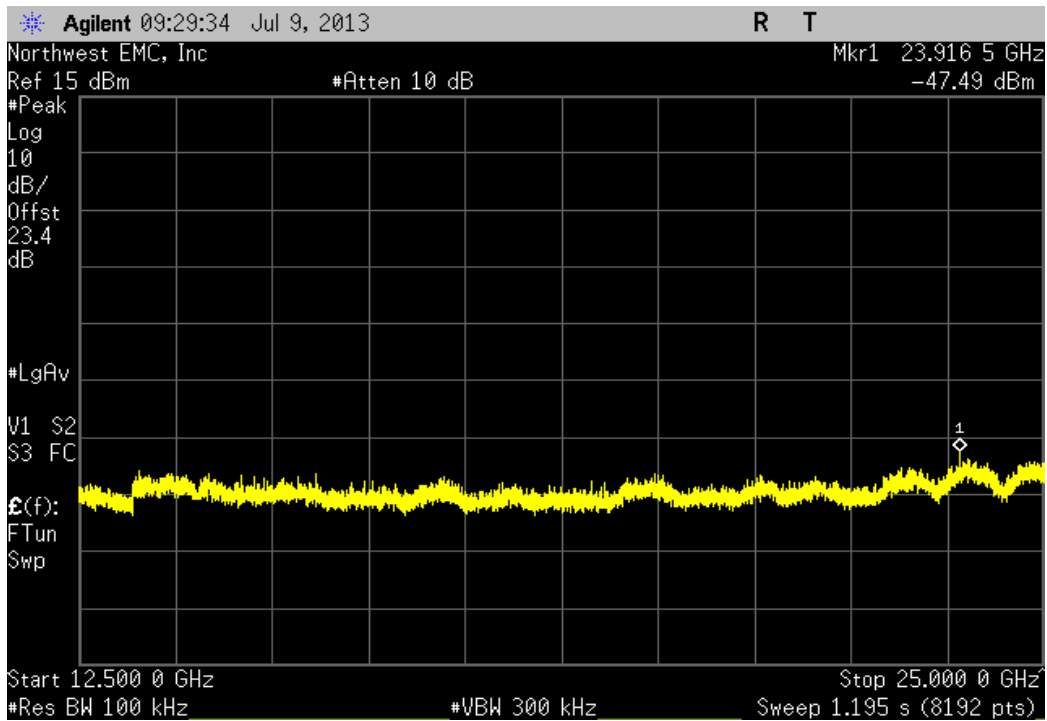
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



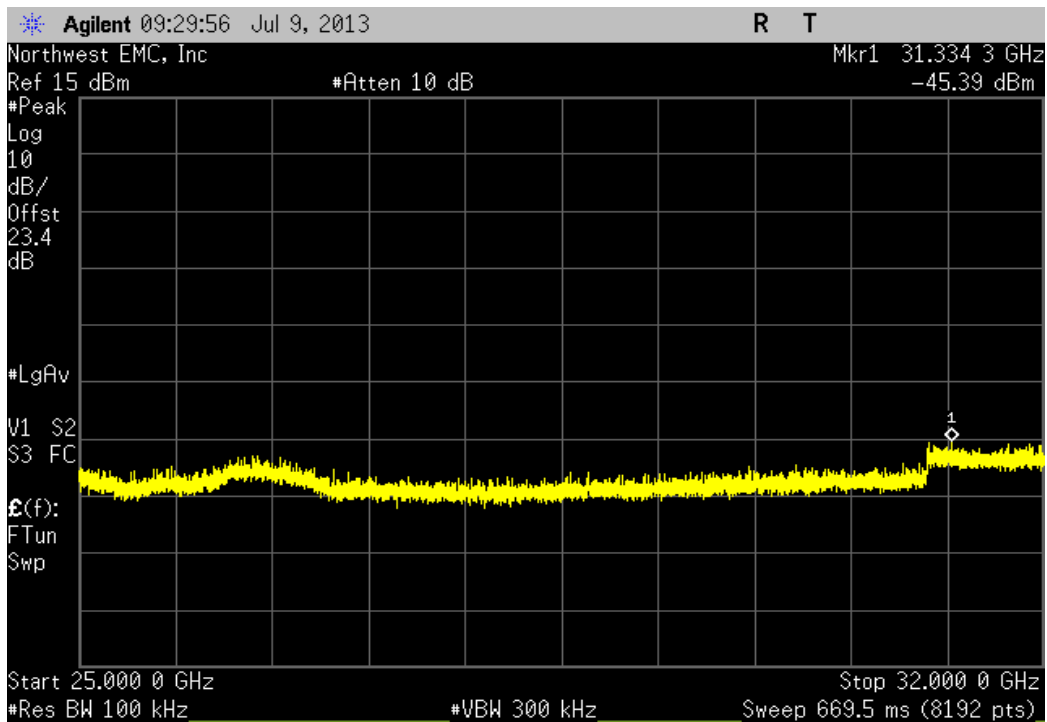
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-48.28 dBc	≤ -20 dBc	Pass



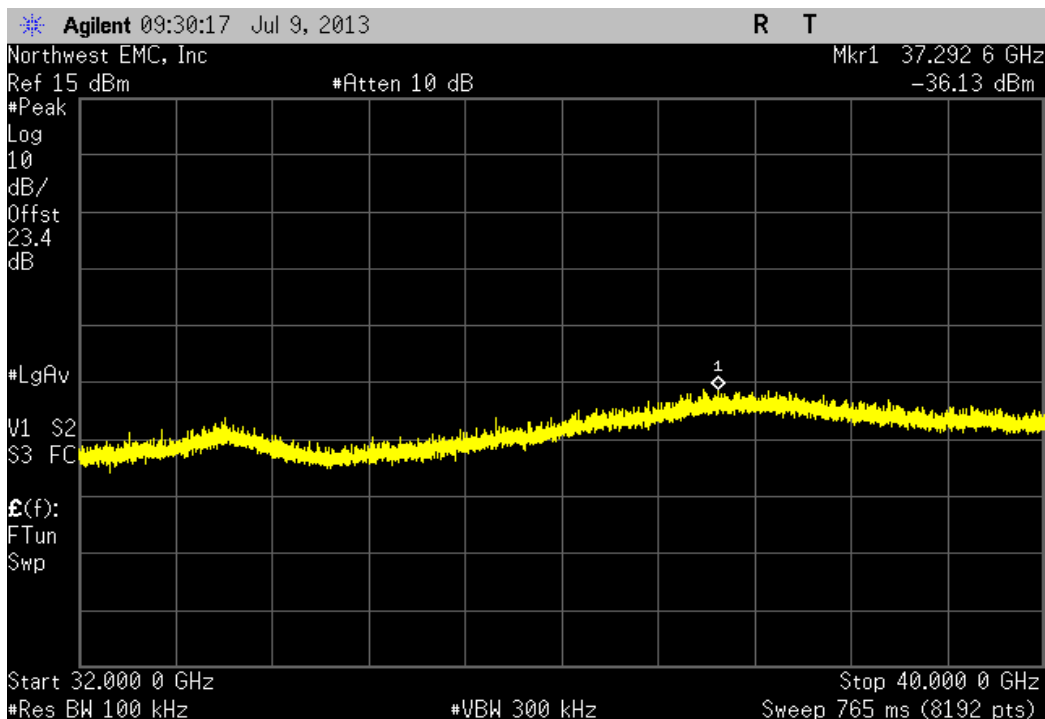
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.86 dBc	≤ -20 dBc	Pass



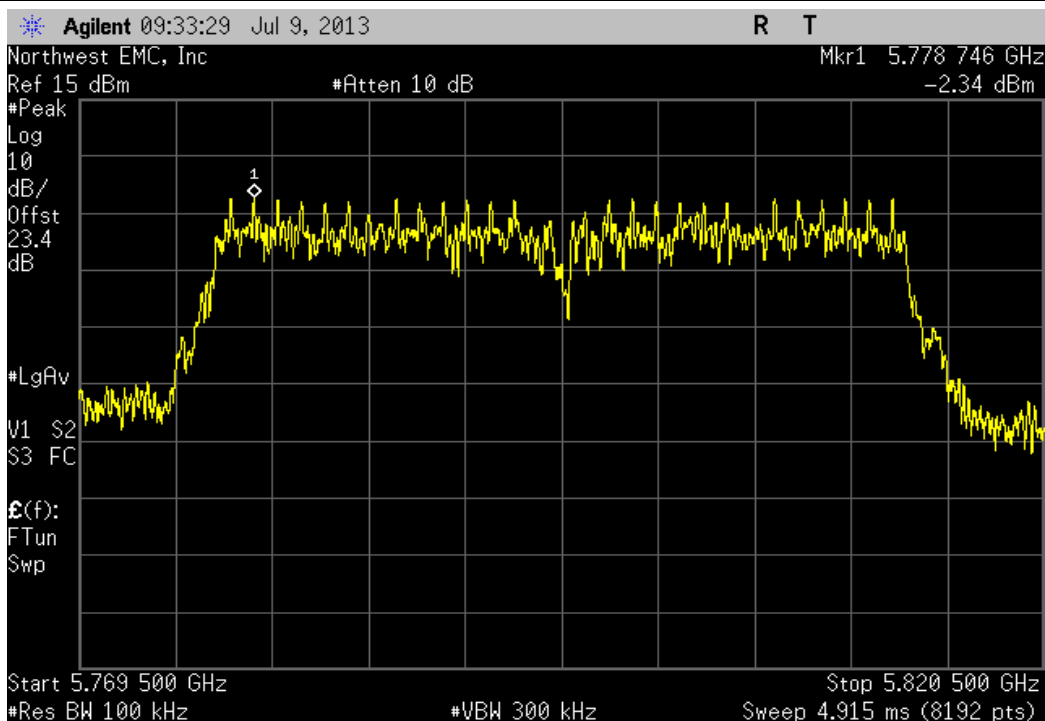
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-42.75 dBc	≤ -20 dBc	Pass



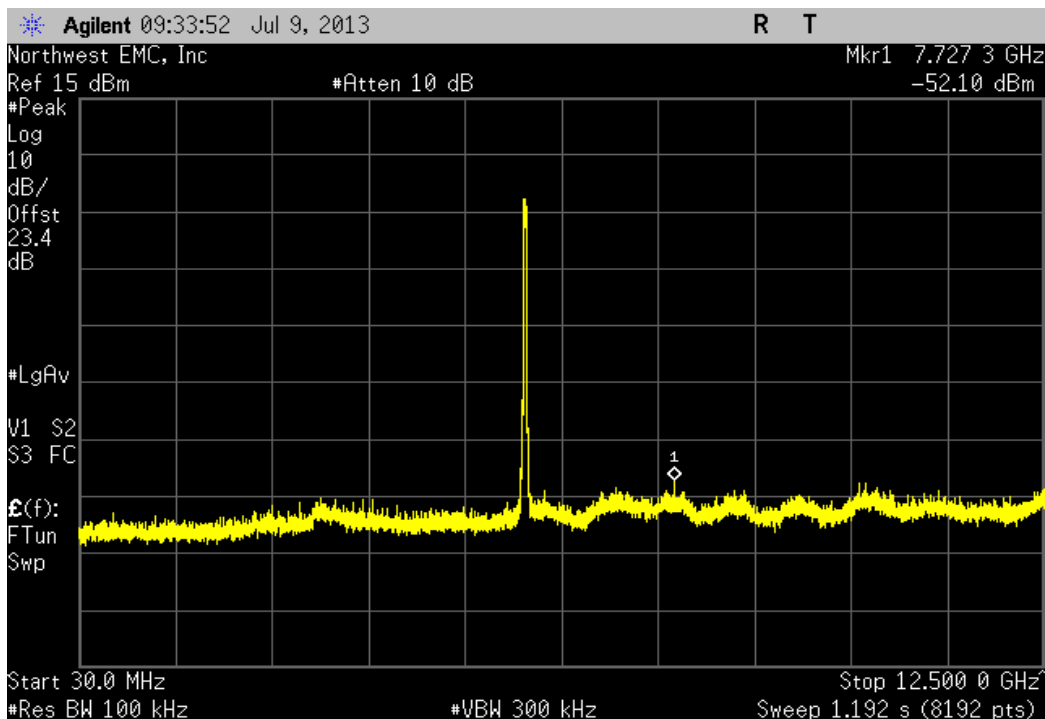
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.49 dBc	≤ -20 dBc	Pass



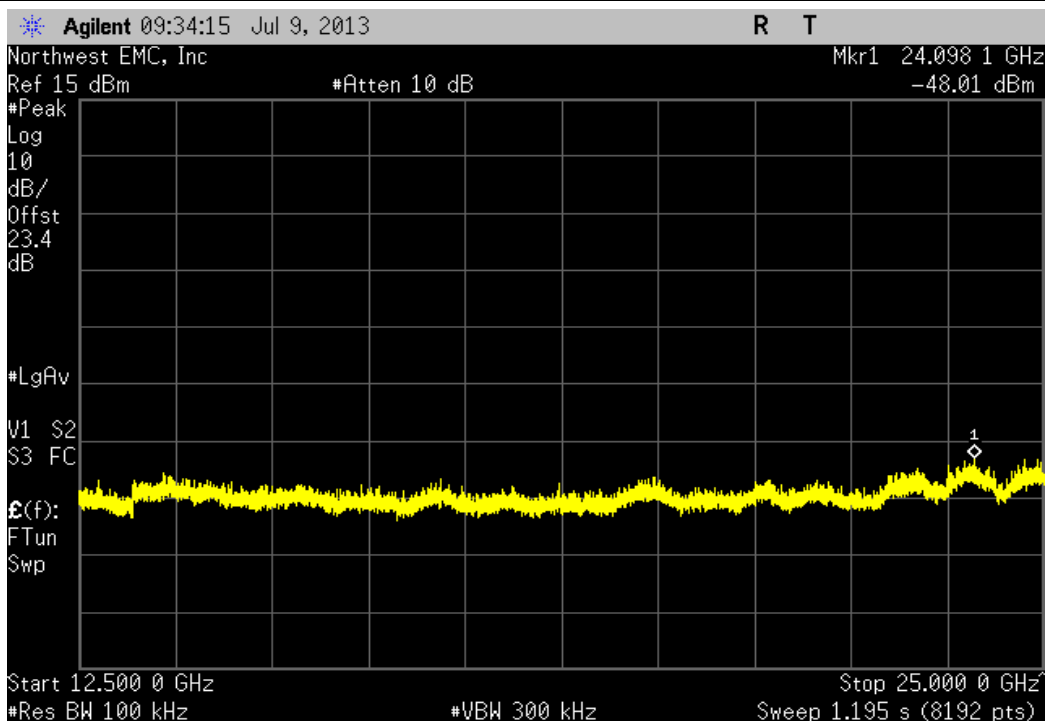
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



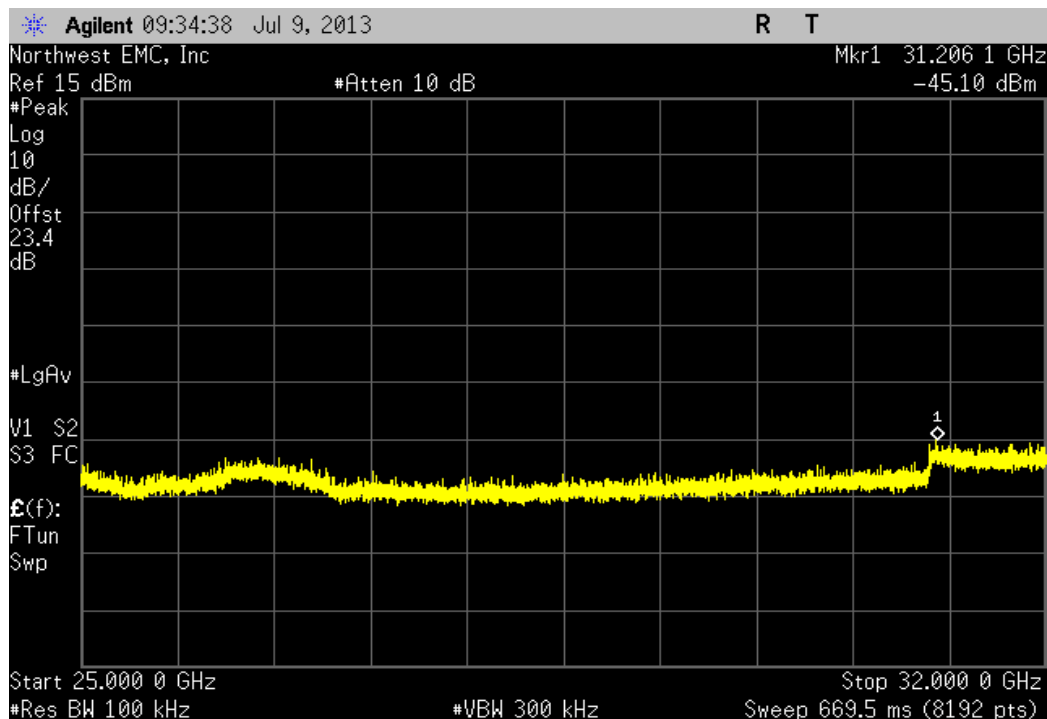
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-49.76 dBc	≤ -20 dBc	Pass	



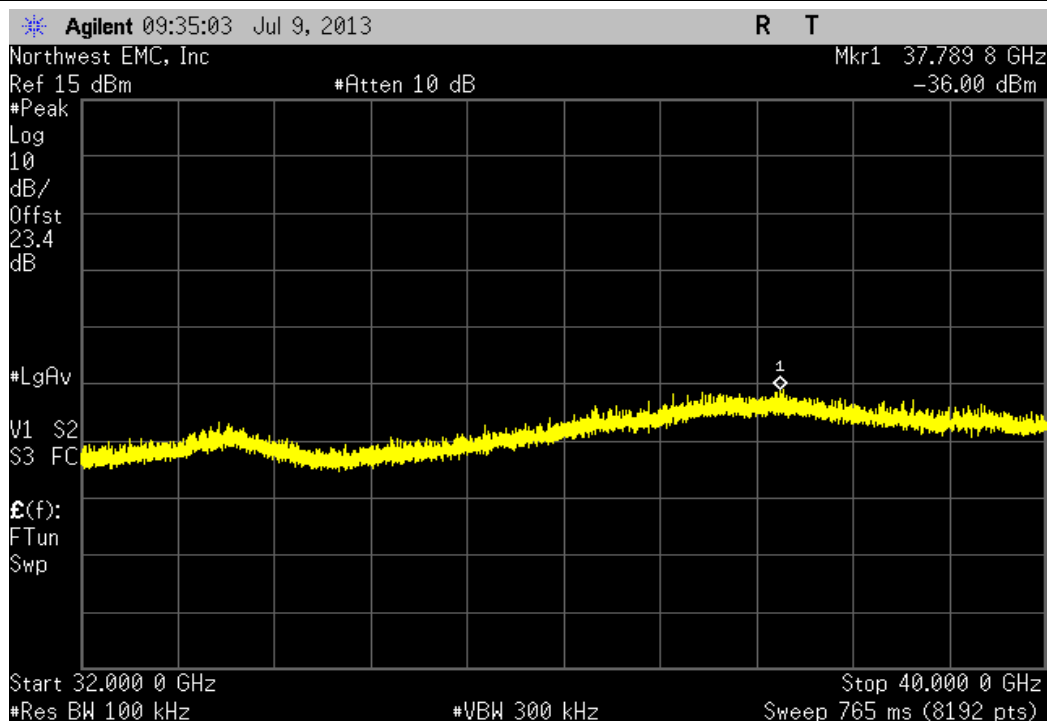
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.67 dBc	≤ -20 dBc	Pass	



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-42.76 dBc	≤ -20 dBc	Pass



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.66 dBc	≤ -20 dBc	Pass



Spurious Conducted Emissions - Antenna B

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Agilent	N5183A	TID	9/19/2011	36
Attenuator	Fairview Microwave	SA4014-20	TKE	2/12/2013	12
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24
NC02 Cable	ESM Cable Corp	TBBJ-141 KMKM-72	NC5	7/3/2013	12

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.

DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.



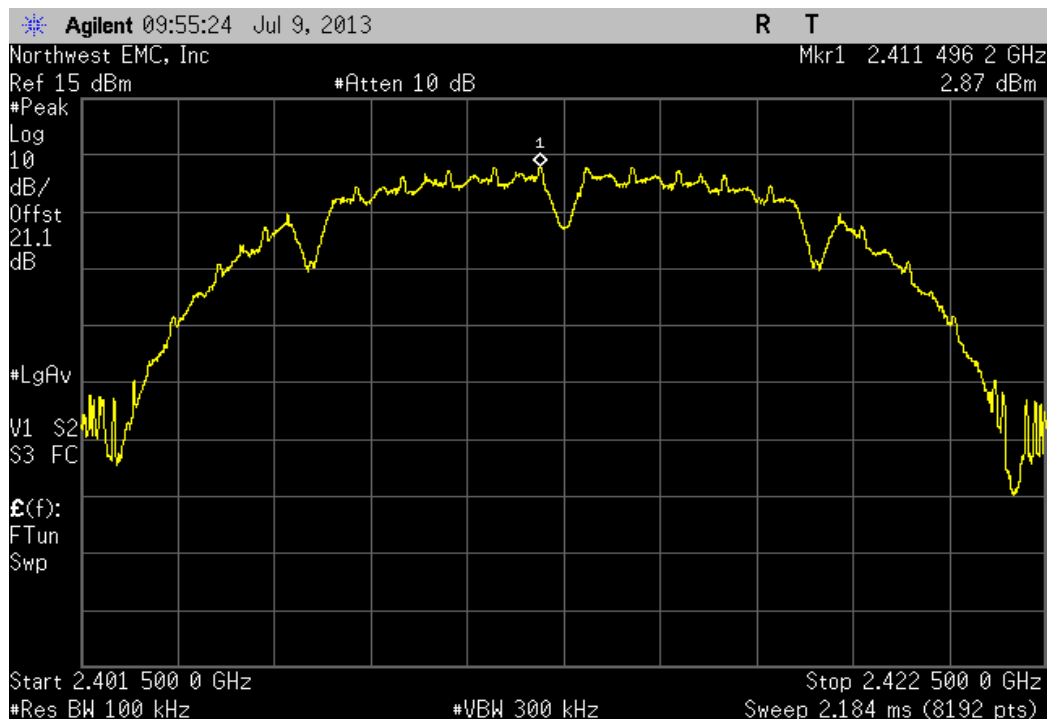
Spurious Conducted Emissions - Antenna B

XMit 2013.02.28
PsaTx 2013.06.07

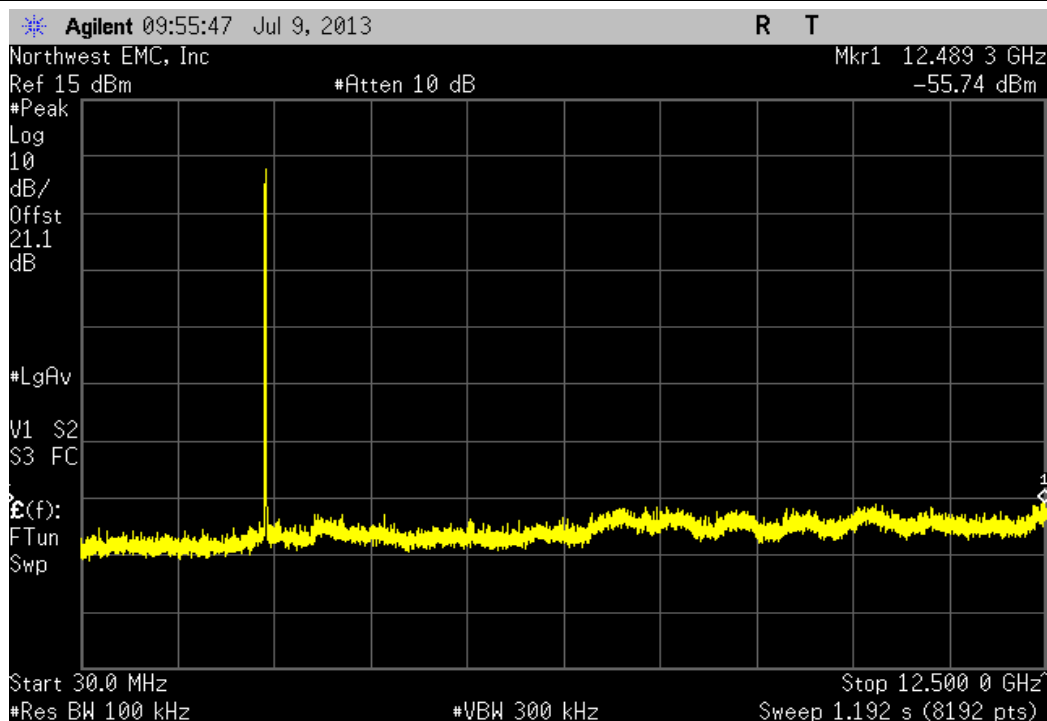
EUT: 1601		Work Order: MCSO1665			
Serial Number: 006079632553		Date: 07/09/13			
Customer: Microsoft Corporation		Temperature: 23°C			
Attendees: None		Humidity: 45%			
Project: None		Barometric Pres.: 1020 mb			
Tested by: Richard Mellroth, Brandon Hobbs		Power: 110VAC/60Hz			
Job Site: NC02					
TEST SPECIFICATIONS		Test Method			
FCC 15.247.2013		ANSI C63.10.2009			
COMMENTS					
EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.					
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	-58.6 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-53.69 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	-59.34 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-53.91 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	-59.53 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.4 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	-60.78 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-56.12 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	-60.83 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-56.48 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	-60.42 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-56.53 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	-57.63 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-53.62 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	-58.18 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-54.12 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	-58.3 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-53.72 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	-57.6 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-52.75 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	-57.96 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-52.93 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	-58.38 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.16 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	-58.18 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-53.32 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	-58.55 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-52.83 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		Fundamental	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	-58.17 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-54.32 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	-55.96 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-53.4 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	-58.49 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-53.96 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	-58.73 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	-53.88 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	-54.88 dBc	≤ -20 dBc	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	-53.74 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	-57.37 dBc	≤ -20 dBc	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	-53.23 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	-53.15 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band					
802.11(a) 6 Mbps					
Low Channel 149, 5745 MHz		Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz		30 MHz - 12.5 GHz	-51.11 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		12.5 GHz - 25 GHz	-46.13 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		25 GHz - 32 GHz	-43.41 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz		32 GHz - 40 GHz	-34.18 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz		30 MHz - 12.5 GHz	-50.53 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		12.5 GHz - 25 GHz	-45.95 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		25 GHz - 32 GHz	-43.27 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz		32 GHz - 40 GHz	-34.24 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz		30 MHz - 12.5 GHz	-50.16 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		12.5 GHz - 25 GHz	-45.88 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		25 GHz - 32 GHz	-42.61 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz		32 GHz - 40 GHz	-33.37 dBc	≤ -20 dBc	Pass

	Frequency Range	Value	Limit	Result
802.11(a) 36 Mbps				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-50.9 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-46.84 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-43.67 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-34.78 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-50.25 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-45.84 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-43.51 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-34.08 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-50.18 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-45.78 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-43.19 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-33.71 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-50.49 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-46.01 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-43.53 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-34.04 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-50.62 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-46.41 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-43.18 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-34.14 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-50.12 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-45.35 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-42.76 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-33.49 dBc	≤ -20 dBc	Pass
802.11(n) MCS0 - UNII				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-49.83 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-46.2 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-44.06 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-33.99 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-51.42 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-46.49 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-43.72 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-34.01 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-48.86 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-45.98 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-42.95 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-33.27 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII				
Low Channel 149, 5745 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-50.75 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-46.14 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-42.95 dBc	≤ -20 dBc	Pass
Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-33.92 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-51.19 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-46.3 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-43.72 dBc	≤ -20 dBc	Pass
Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-33.99 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	Fundamental	N/A	N/A	N/A
High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-50.44 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-46.02 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	25 GHz - 32 GHz	-42.15 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	32 GHz - 40 GHz	-33.74 dBc	≤ -20 dBc	Pass
40 MHz				
2400 MHz - 2483.5 MHz Band				
802.11(n) MCS0				
Low Channel 1/5, 2422 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1/5, 2422 MHz	30 MHz - 12.5 GHz	-46.89 dBc	≤ -20 dBc	Pass
Low Channel 1/5, 2422 MHz	12.5 GHz - 25 GHz	-50.72 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 4/8, 2437 MHz	30 MHz - 12.5 GHz	-55.1 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	12.5 GHz - 25 GHz	-50.36 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	Fundamental	N/A	N/A	N/A
High Channel 7/11, 2452 MHz	30 MHz - 12.5 GHz	-54.95 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	12.5 GHz - 25 GHz	-50.2 dBc	≤ -20 dBc	Pass
802.11(n) MCS7				
Low Channel 1/5, 2422 MHz	Fundamental	N/A	N/A	N/A
Low Channel 1/5, 2422 MHz	30 MHz - 12.5 GHz	-42.26 dBc	≤ -20 dBc	Pass
Low Channel 1/5, 2422 MHz	12.5 GHz - 25 GHz	-50.93 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 4/8, 2437 MHz	30 MHz - 12.5 GHz	-51.8 dBc	≤ -20 dBc	Pass
Mid Channel 4/8, 2437 MHz	12.5 GHz - 25 GHz	-50.57 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	Fundamental	N/A	N/A	N/A
High Channel 7/11, 2452 MHz	30 MHz - 12.5 GHz	-50.72 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	12.5 GHz - 25 GHz	-50.96 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band				
802.11(n) MCS0 - UNII				
Low Channel 149/153, 5755 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149/153, 5755 MHz	30 MHz - 12.5 GHz	-48.32 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	12.5 GHz - 25 GHz	-44.04 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	25 GHz - 32 GHz	-41.21 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	32 GHz - 40 GHz	-32.02 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	Fundamental	N/A	N/A	N/A
High Channel 157/161, 5795 MHz	30 MHz - 12.5 GHz	-48.7 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	12.5 GHz - 25 GHz	-43.91 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	25 GHz - 32 GHz	-40.55 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	32 GHz - 40 GHz	-32.22 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII				
Low Channel 149/153, 5755 MHz	Fundamental	N/A	N/A	N/A
Low Channel 149/153, 5755 MHz	30 MHz - 12.5 GHz	-47.62 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	12.5 GHz - 25 GHz	-43.95 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	25 GHz - 32 GHz	-40.89 dBc	≤ -20 dBc	Pass
Low Channel 149/153, 5755 MHz	32 GHz - 40 GHz	-31.75 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	Fundamental	N/A	N/A	N/A
High Channel 157/161, 5795 MHz	30 MHz - 12.5 GHz	-46.13 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	12.5 GHz - 25 GHz	-43.24 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	25 GHz - 32 GHz	-40.19 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	32 GHz - 40 GHz	-31.49 dBc	≤ -20 dBc	Pass

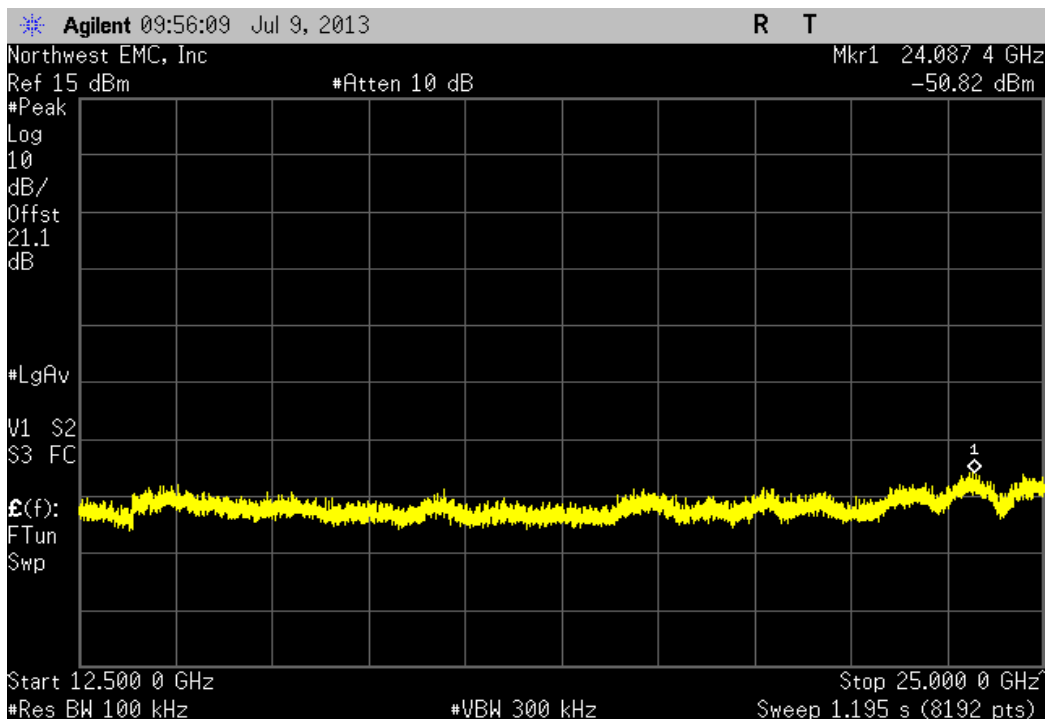
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



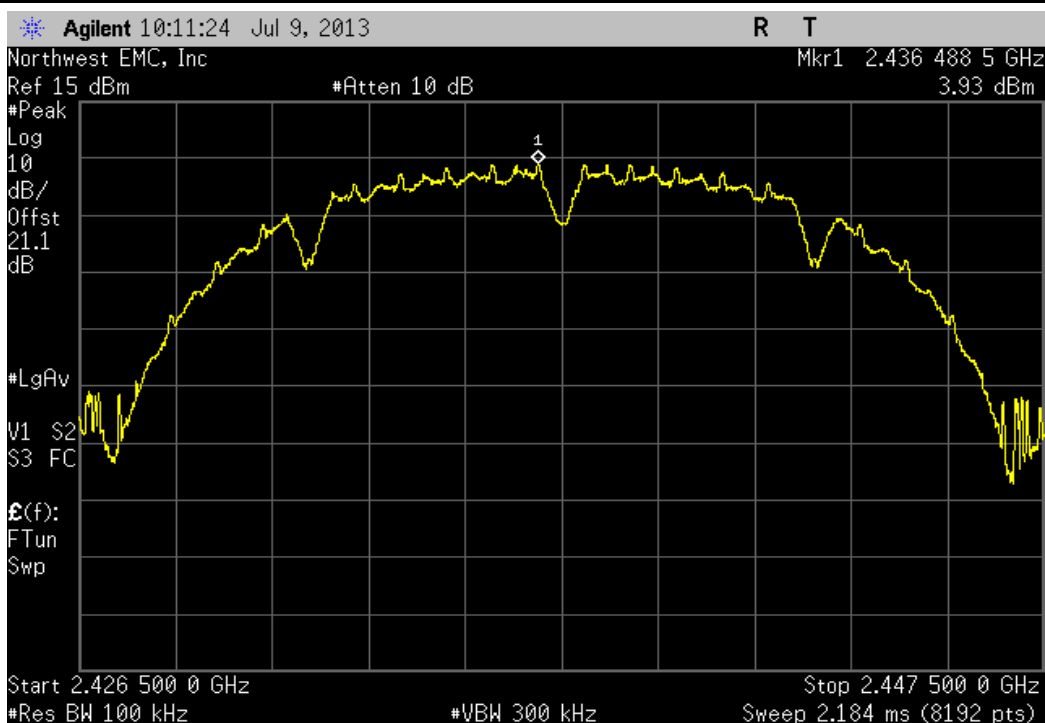
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-58.6 dBc	≤ -20 dBc	Pass



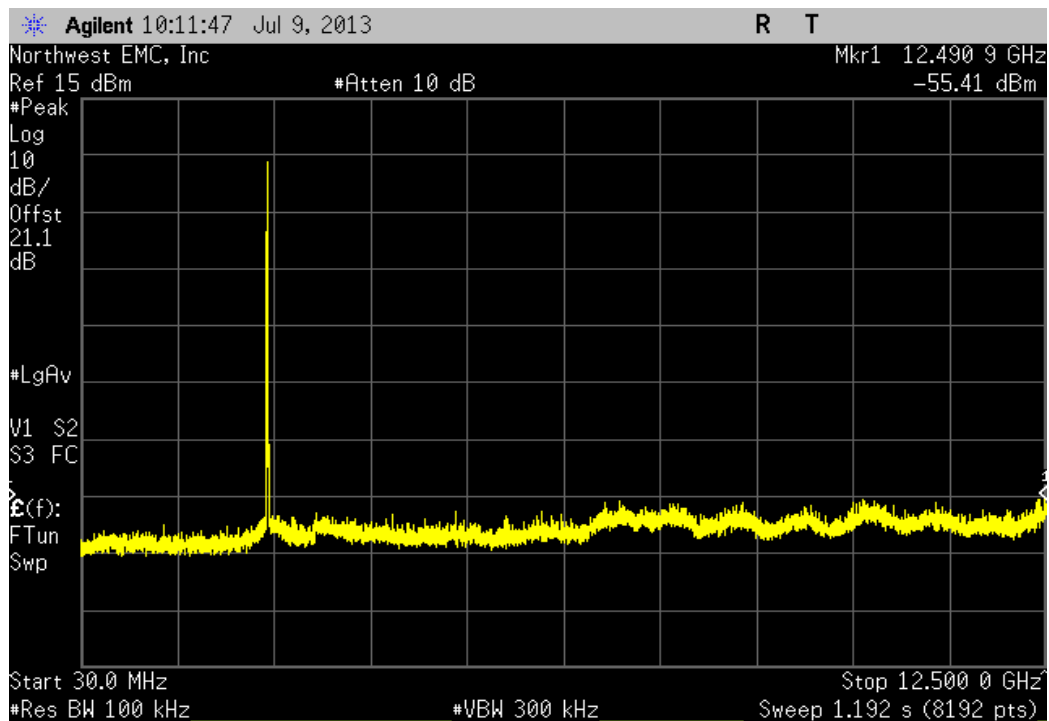
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.69 dBc	≤ -20 dBc	Pass



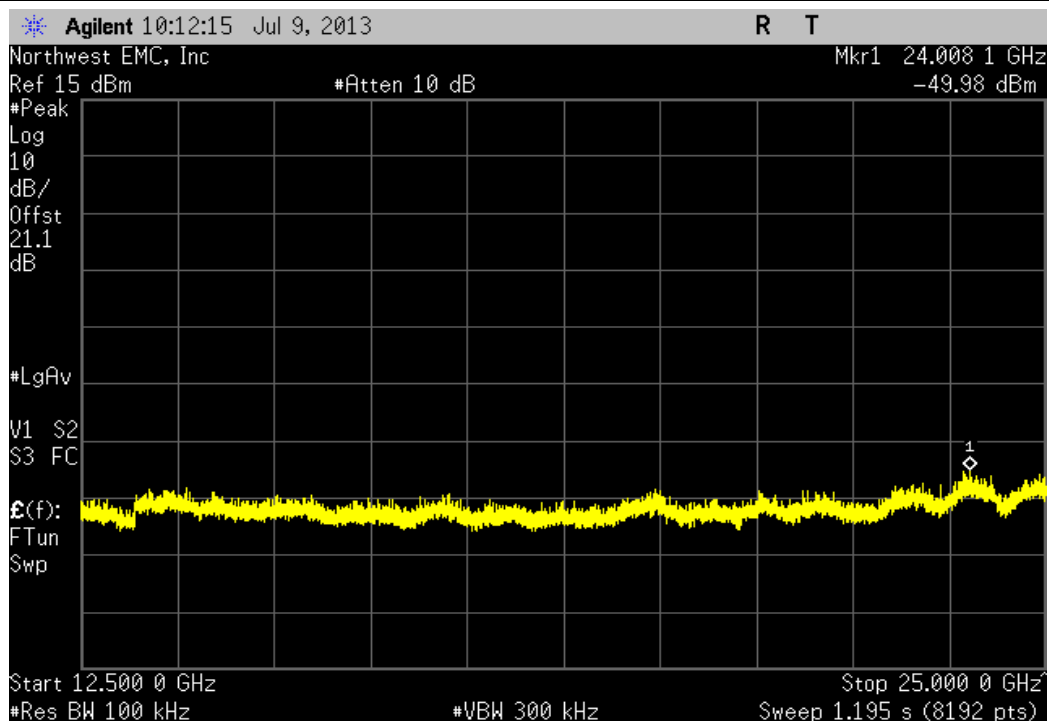
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



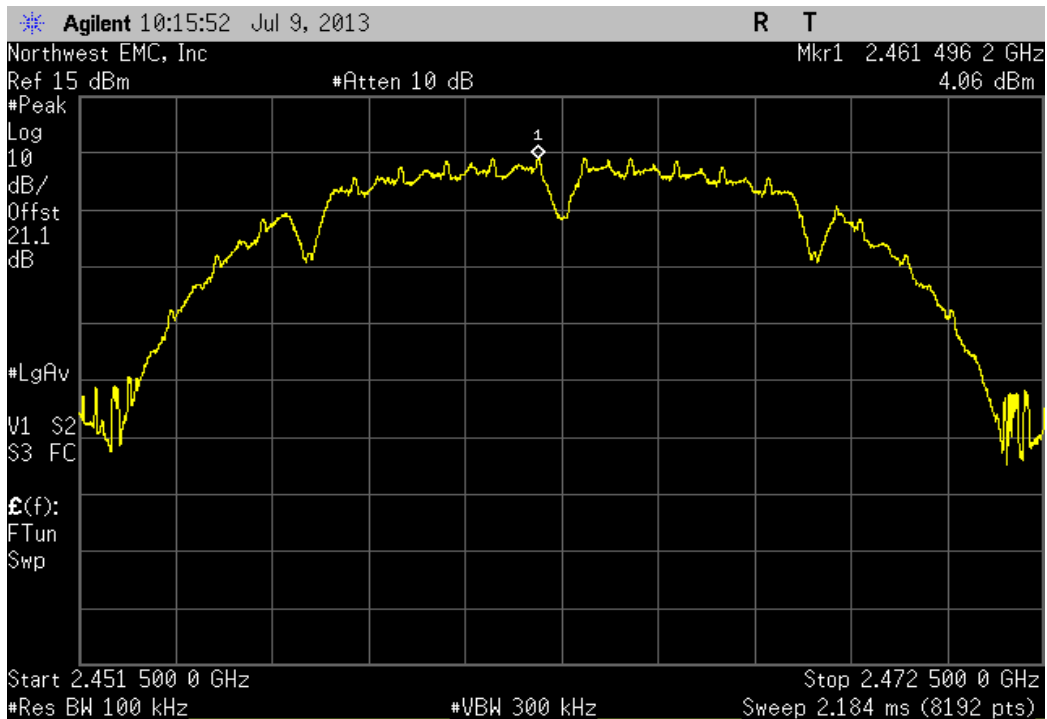
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-59.34 dBc	≤ -20 dBc	Pass	



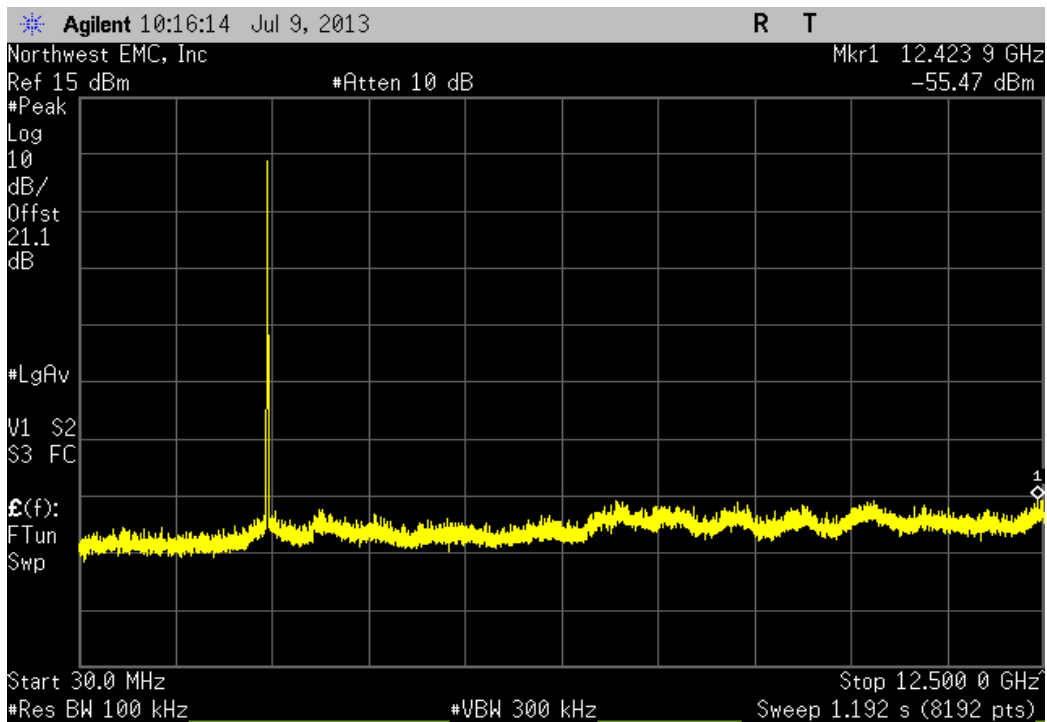
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.91 dBc	≤ -20 dBc	Pass	



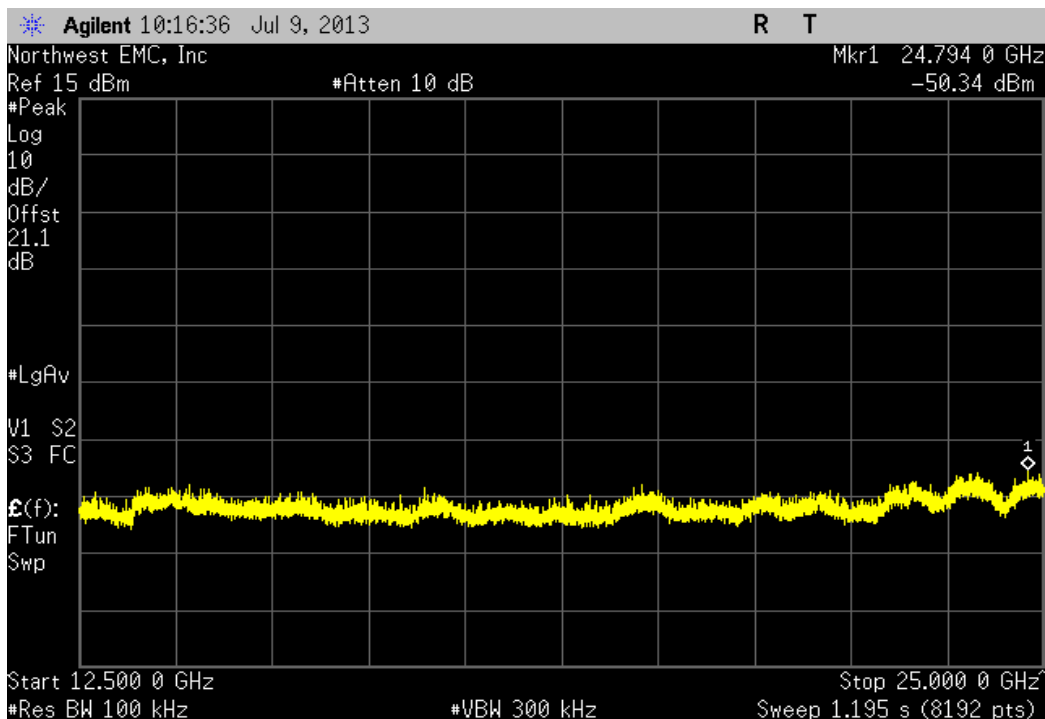
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



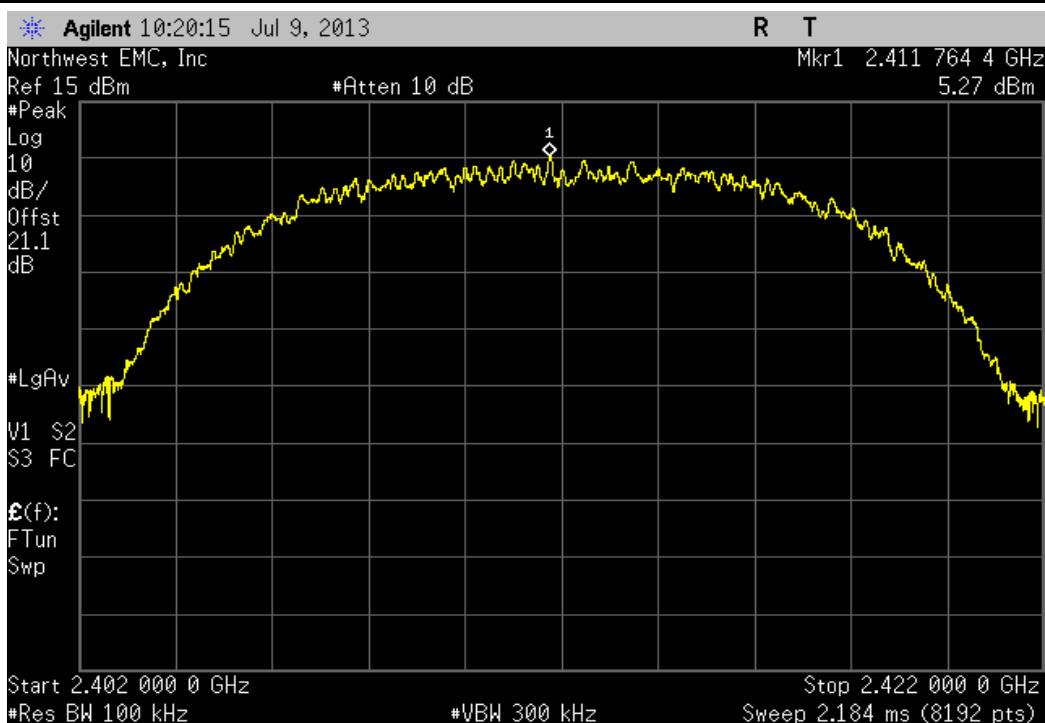
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-59.53 dBc	≤ -20 dBc	Pass



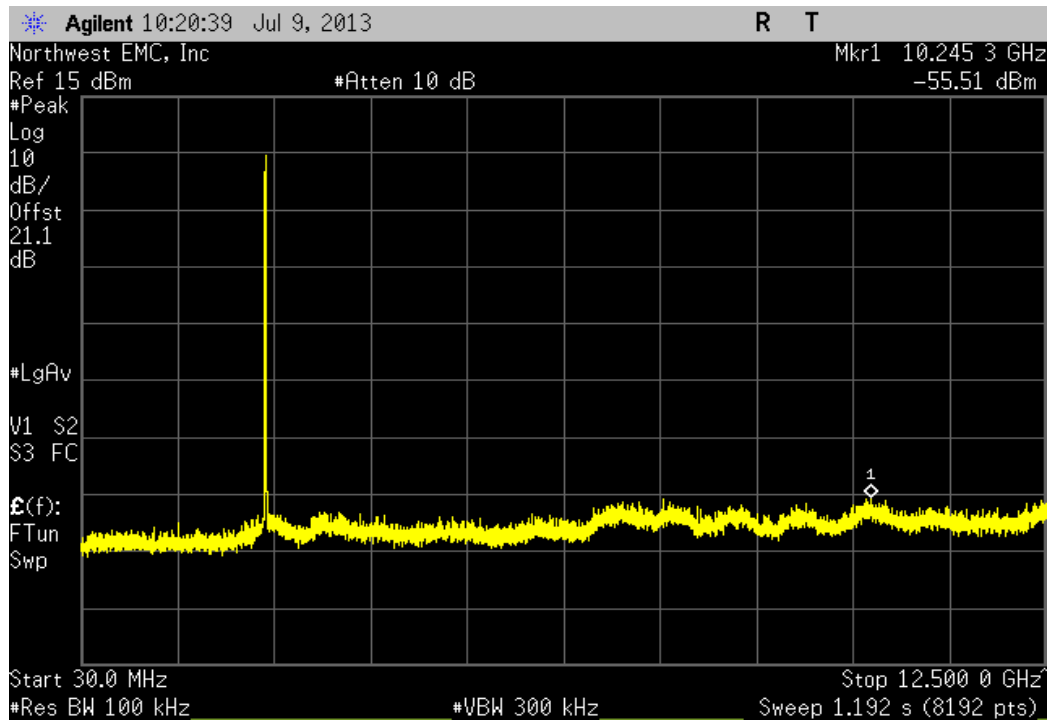
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.4 dBc	≤ -20 dBc	Pass



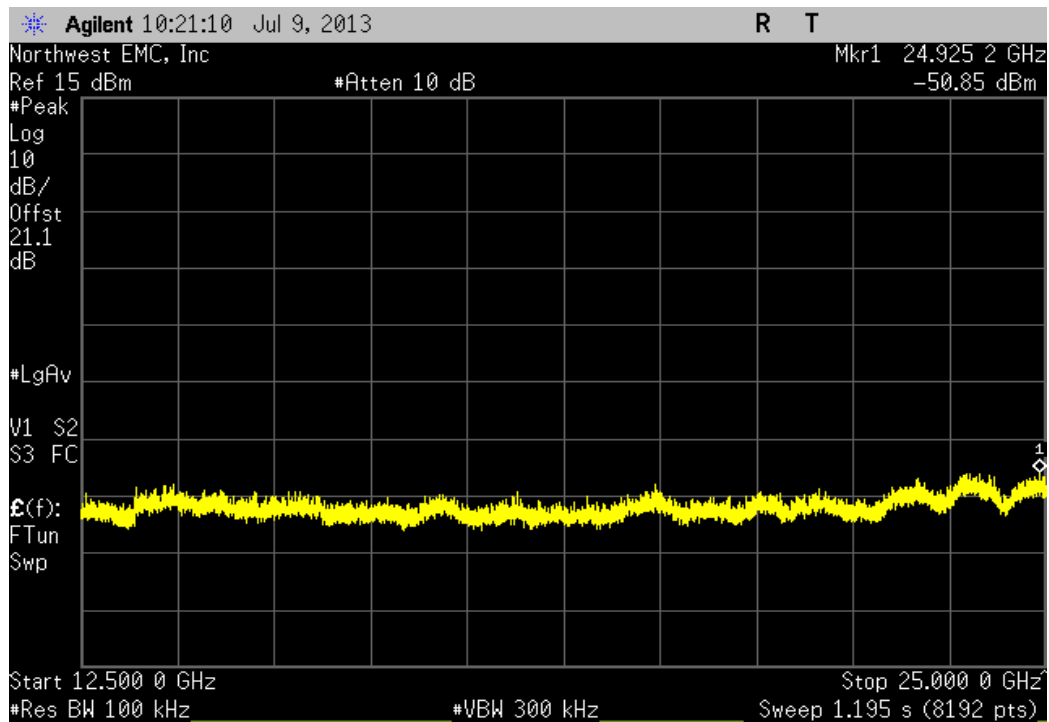
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



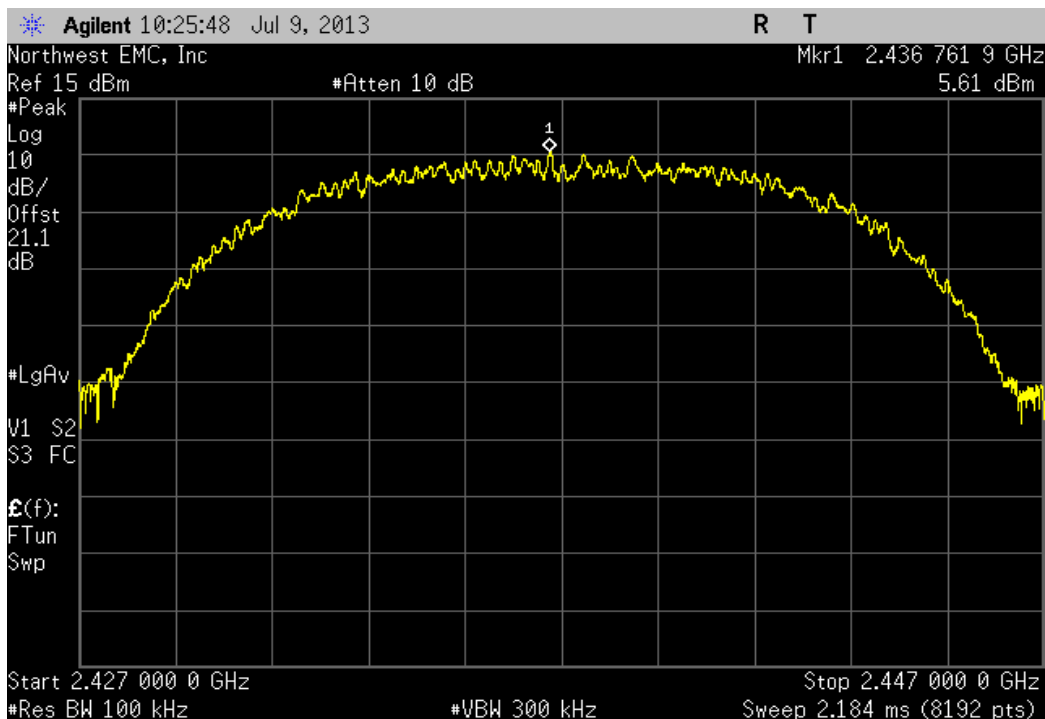
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-60.78 dBc	≤ -20 dBc	Pass	



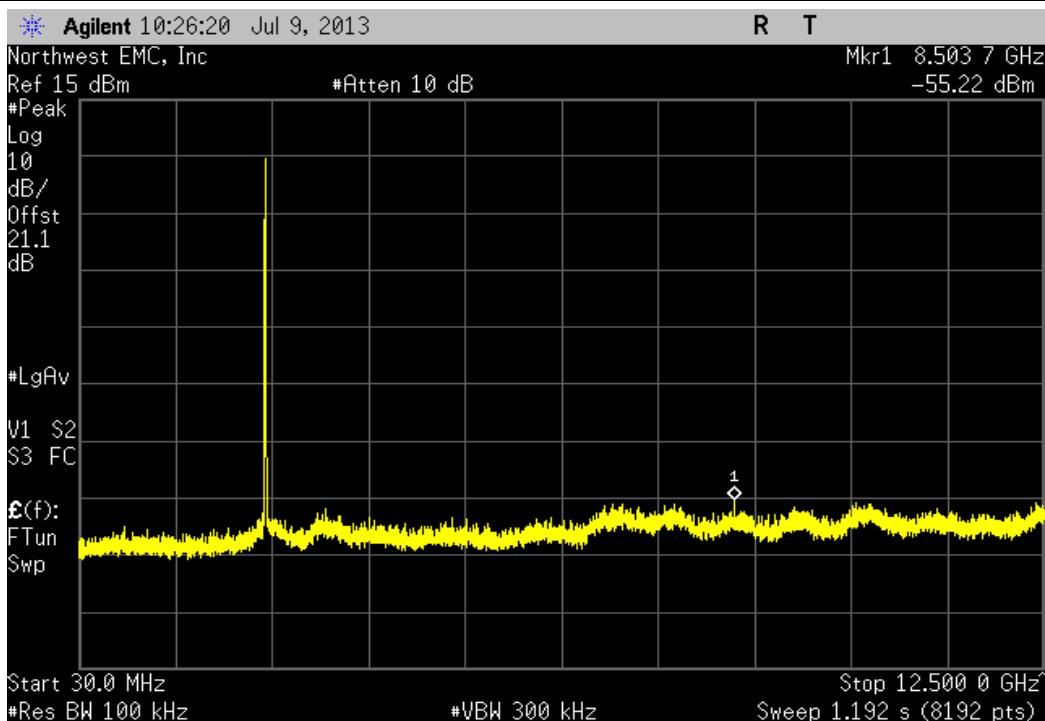
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-56.12 dBc	≤ -20 dBc	Pass	



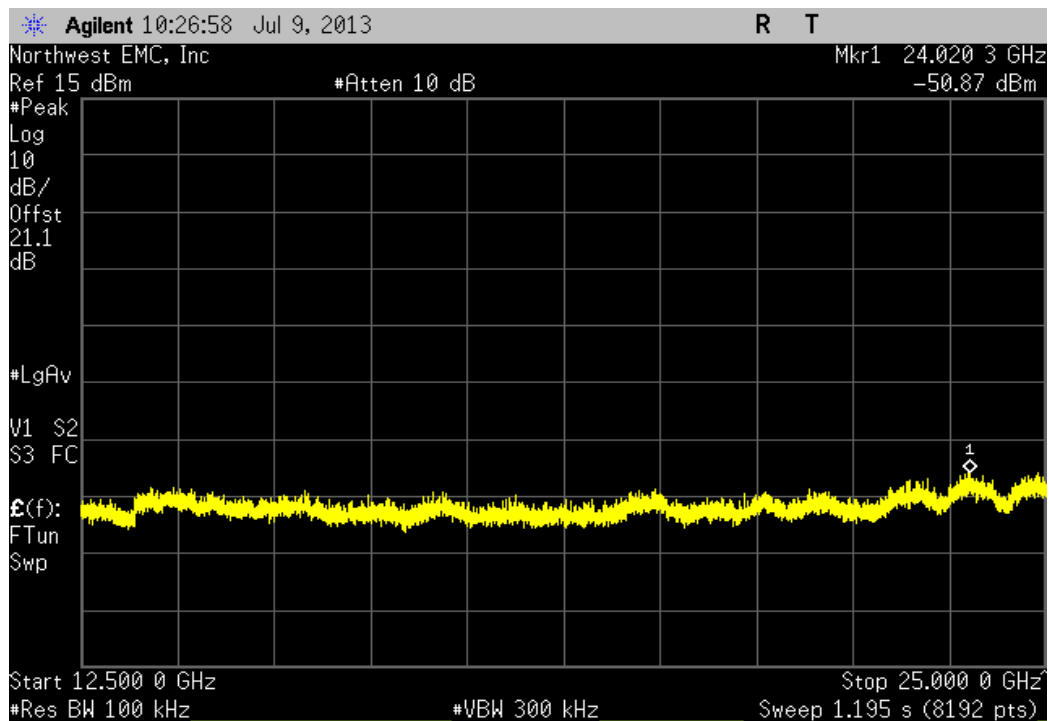
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



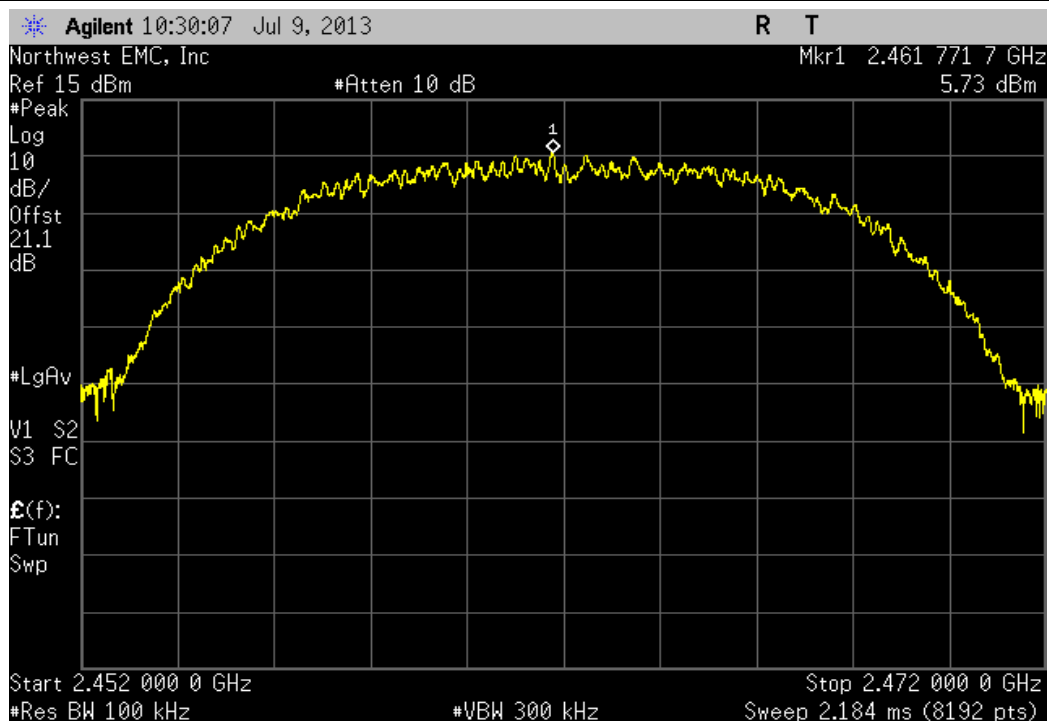
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-60.83 dBc	≤ -20 dBc	Pass



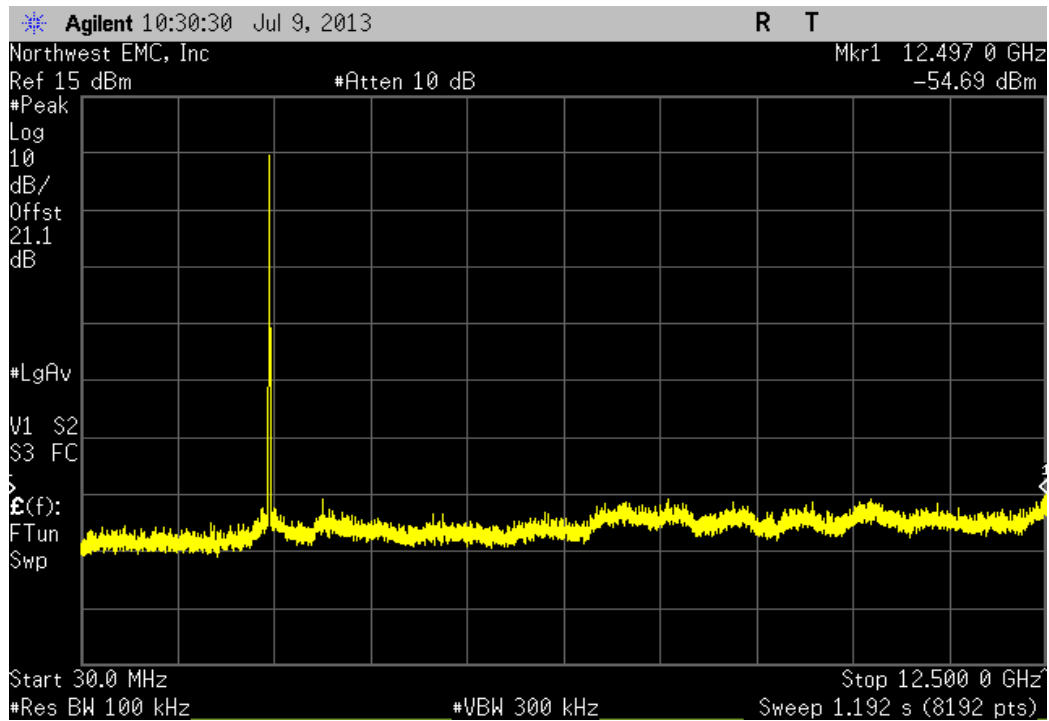
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-56.48 dBc	≤ -20 dBc	Pass



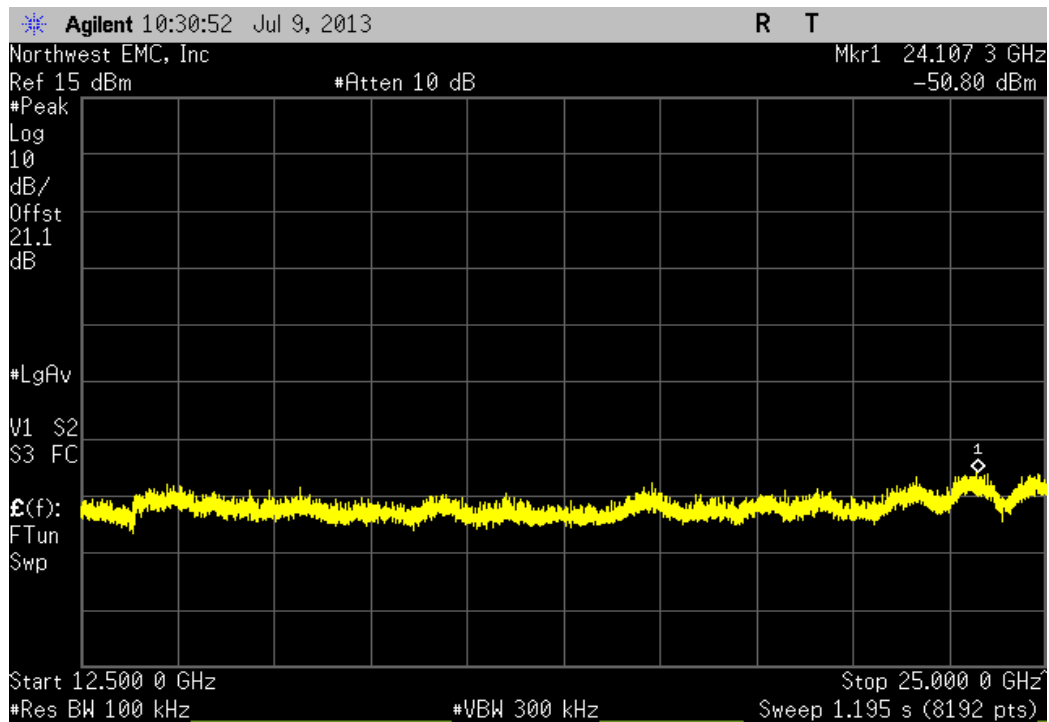
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



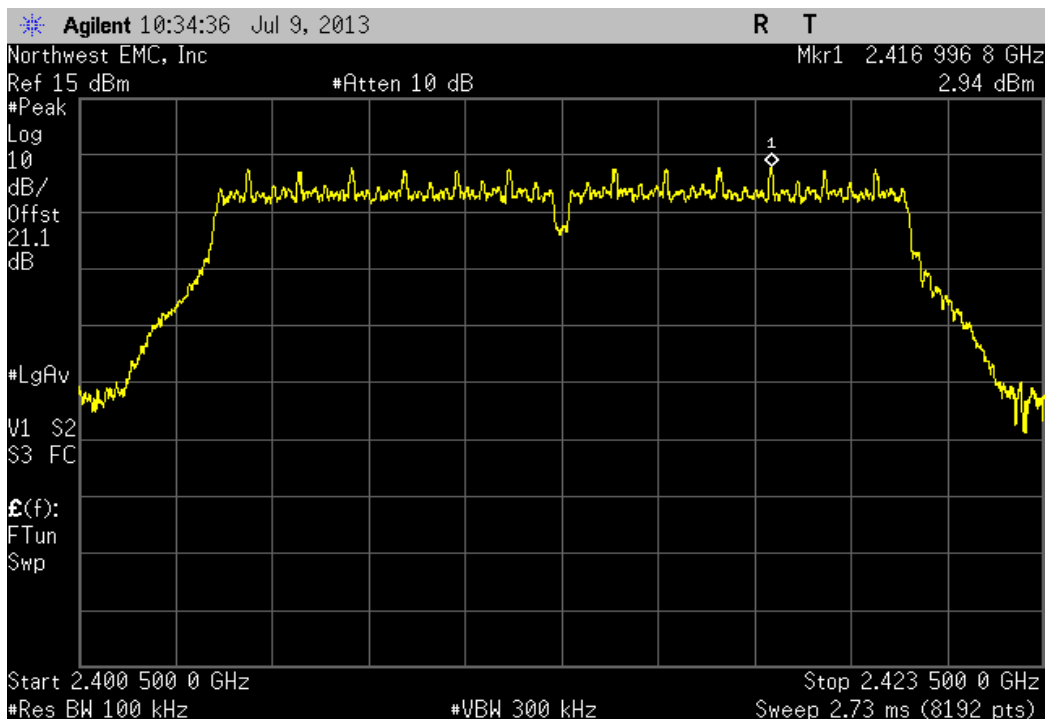
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-60.42 dBc	≤ -20 dBc	Pass	



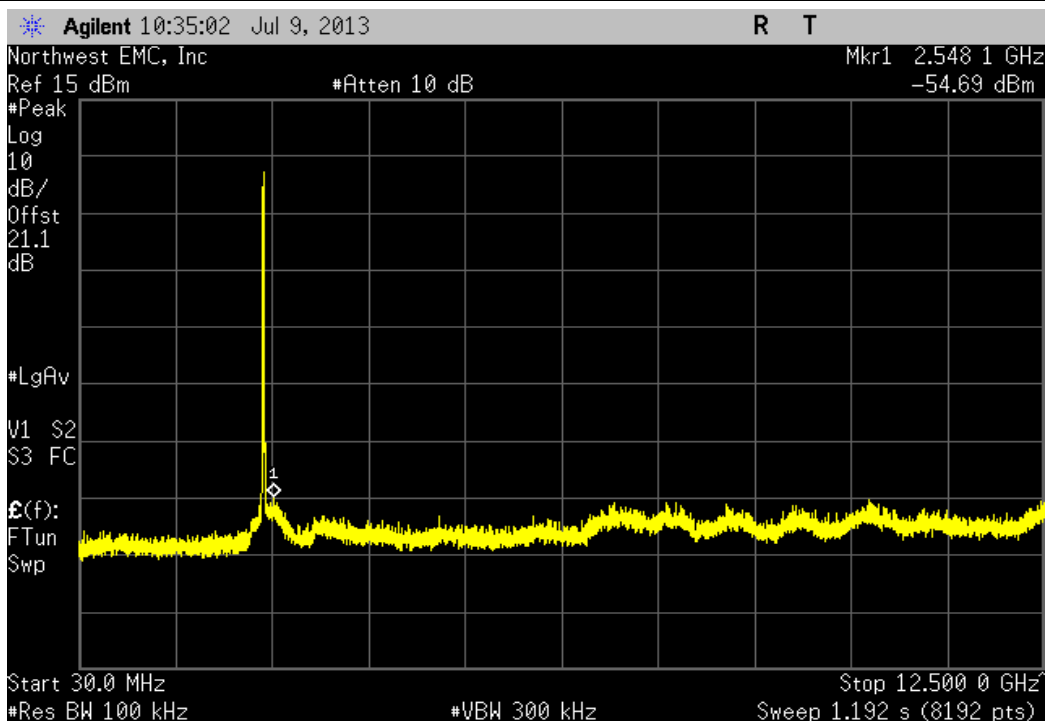
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-56.53 dBc	≤ -20 dBc	Pass	



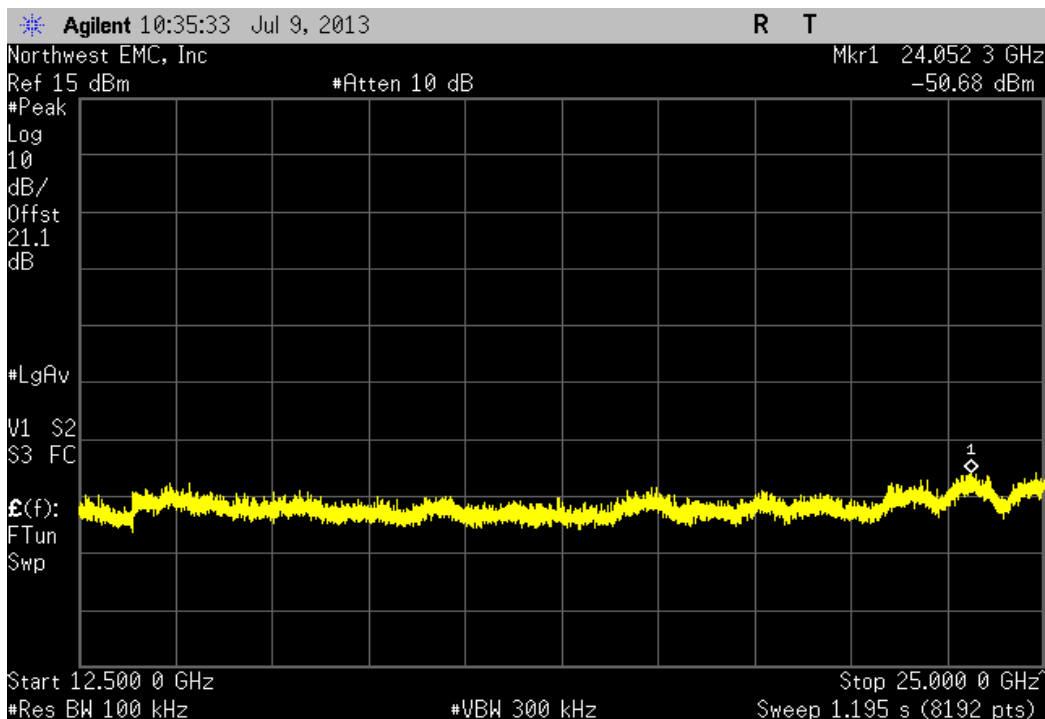
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



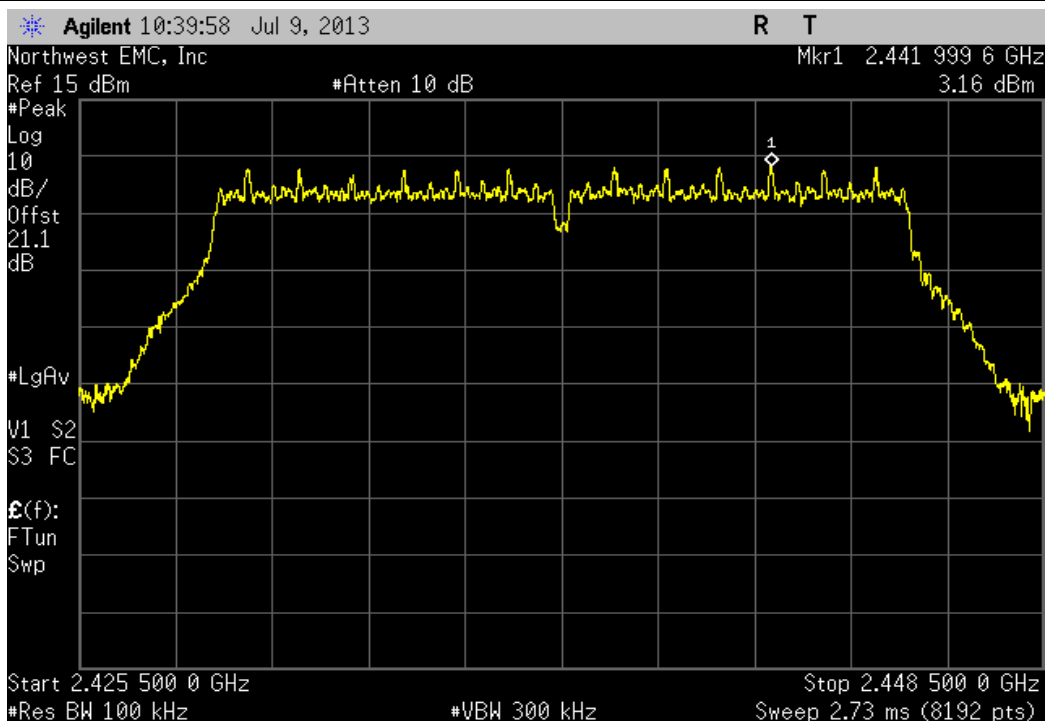
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.63 dBc	≤ -20 dBc	Pass



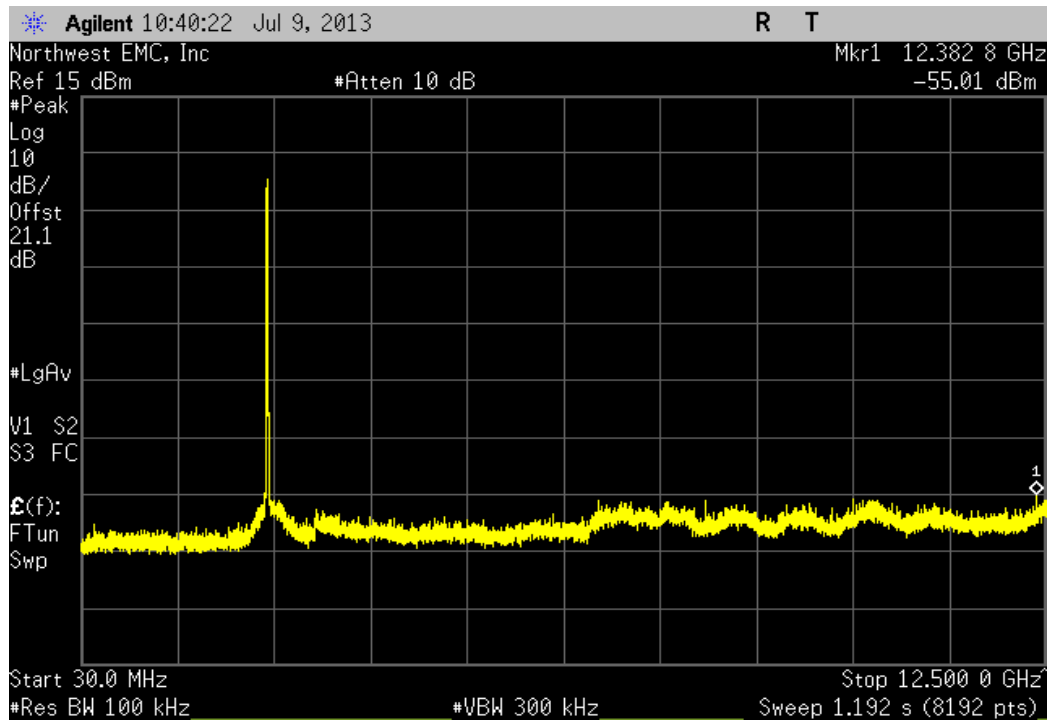
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.62 dBc	≤ -20 dBc	Pass	



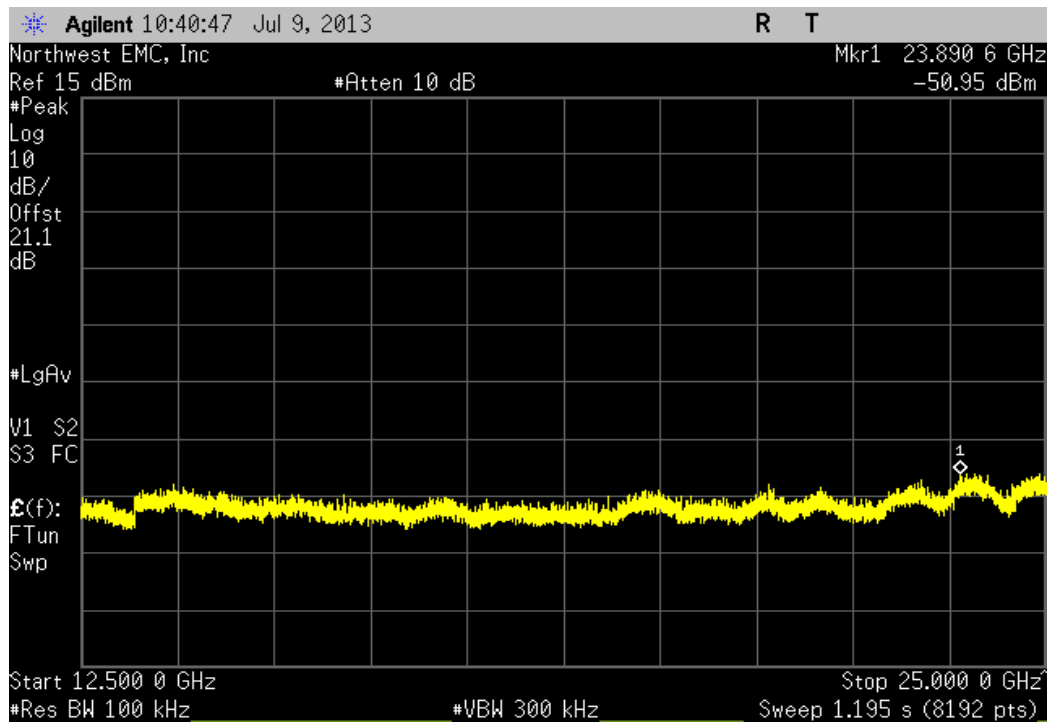
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



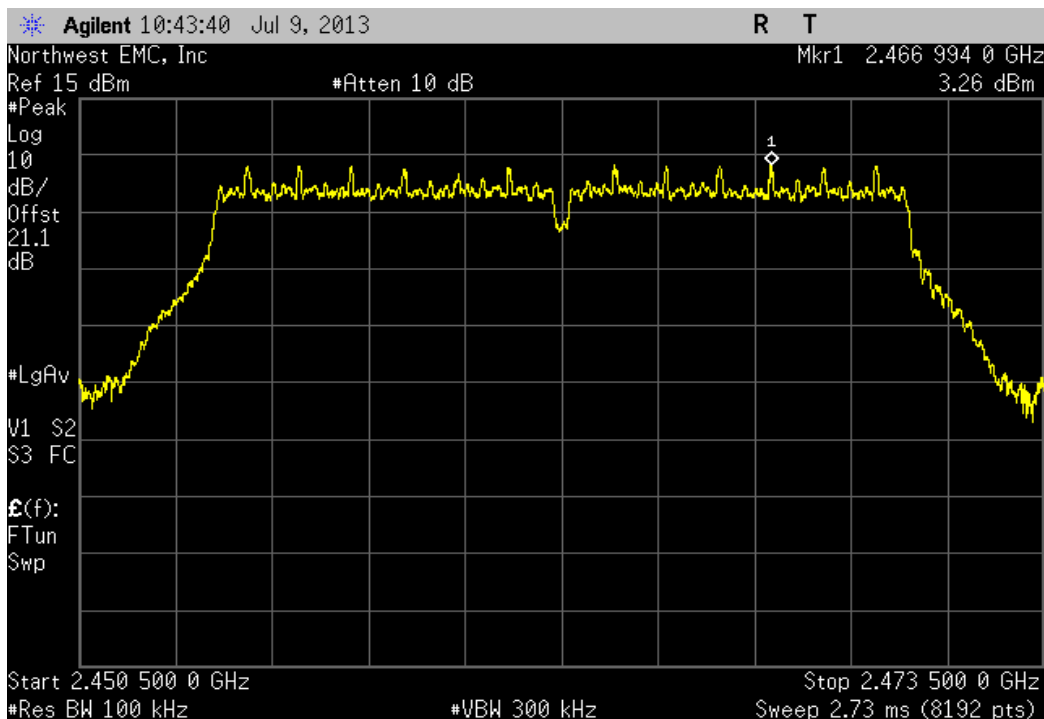
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.18 dBc	≤ -20 dBc	Pass	



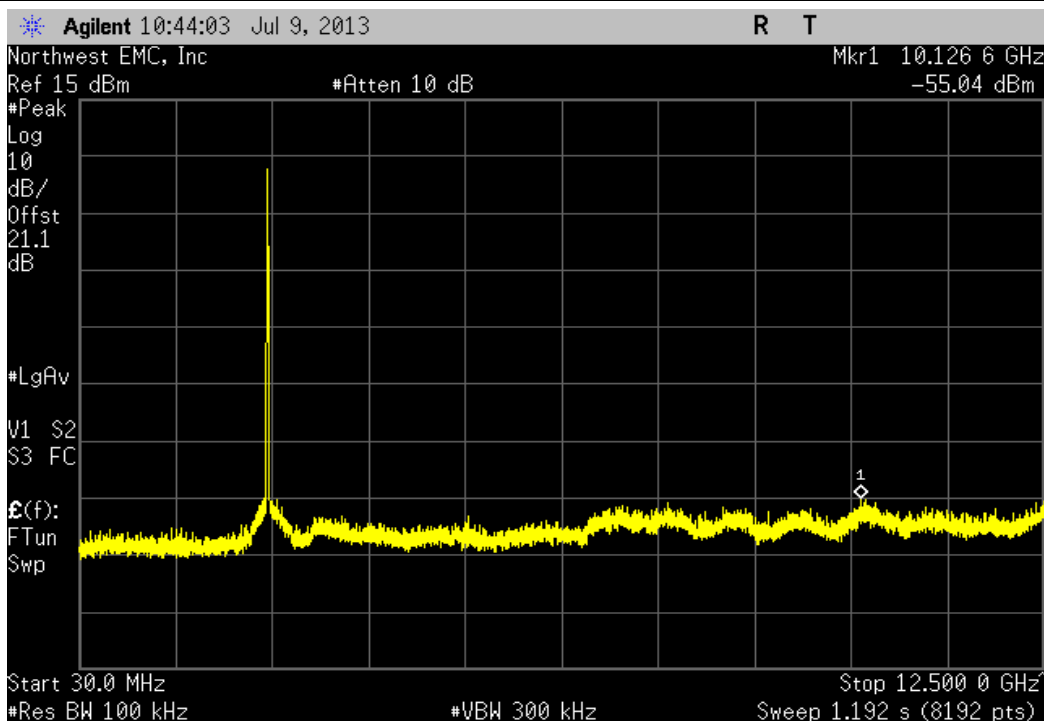
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.12 dBc	≤ -20 dBc	Pass	



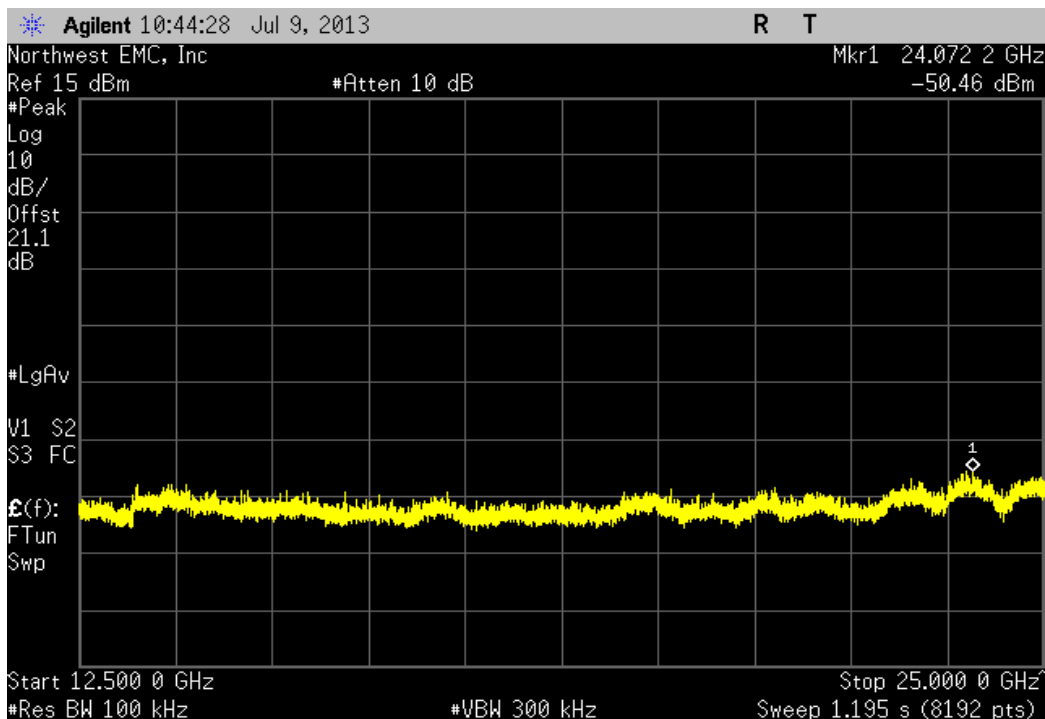
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



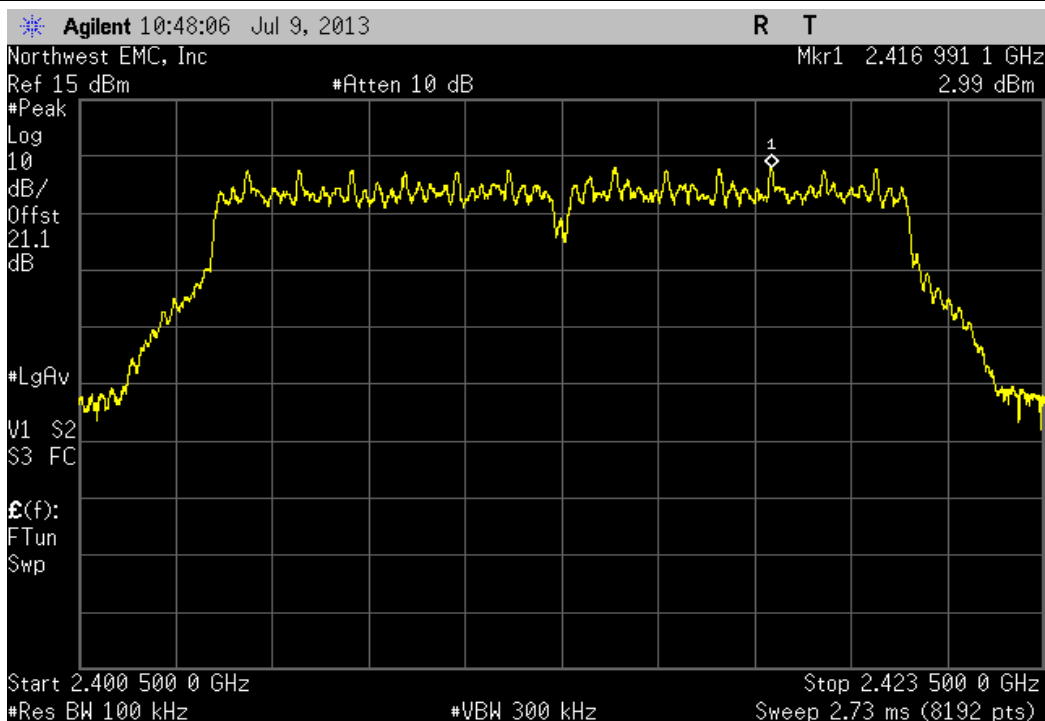
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.3 dBc	≤ -20 dBc	Pass



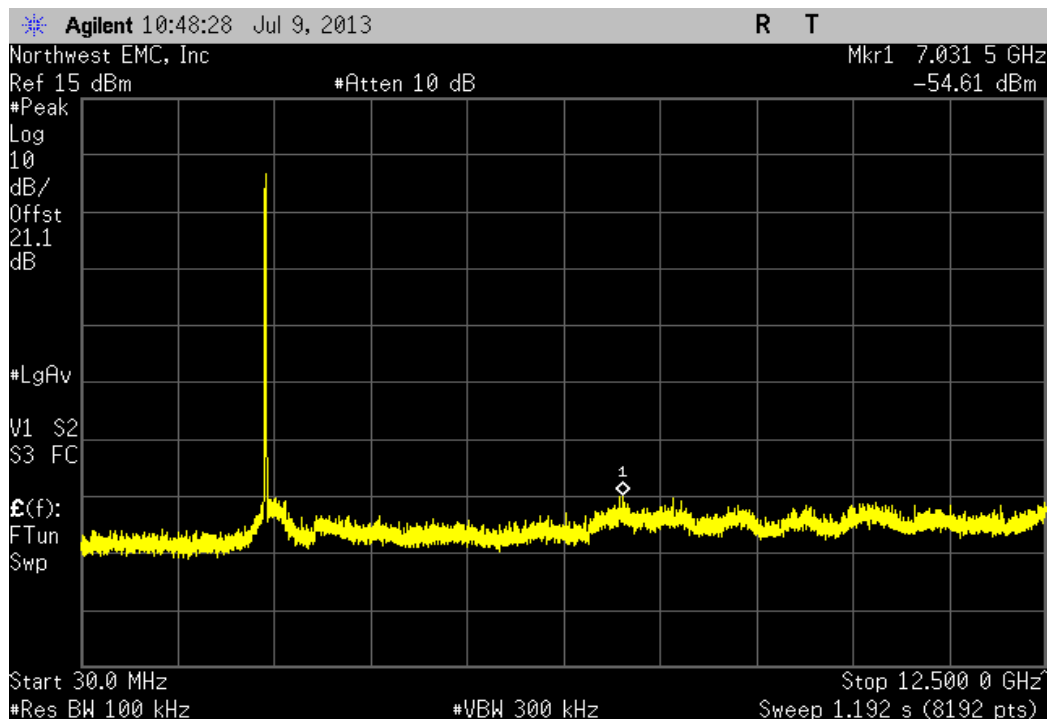
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.72 dBc	≤ -20 dBc	Pass	



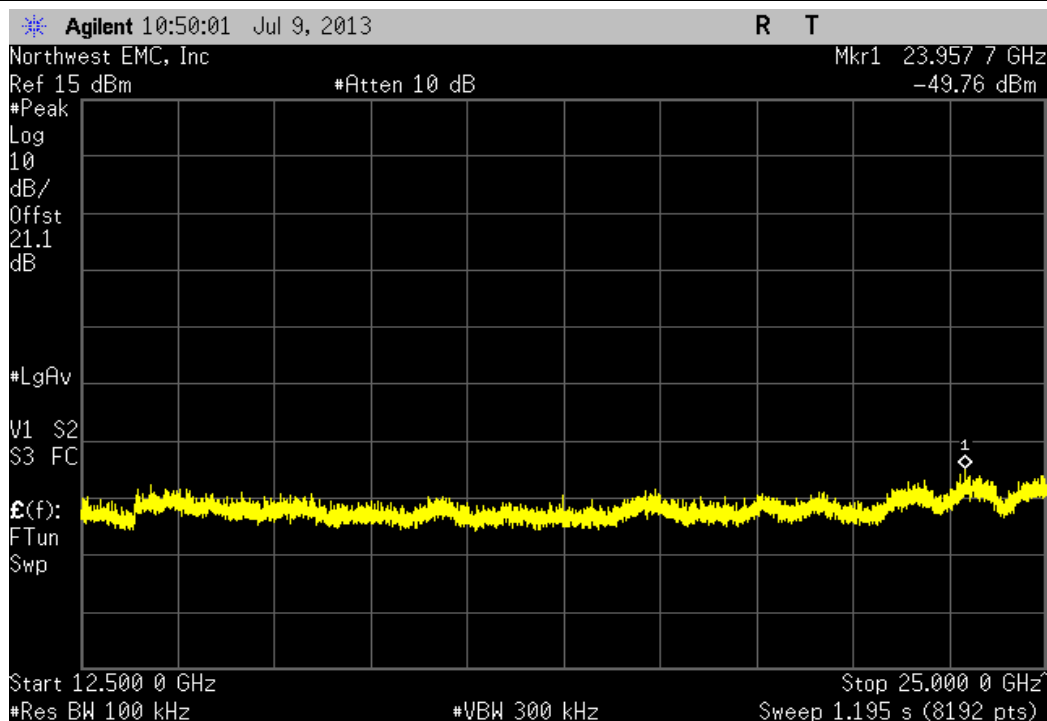
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



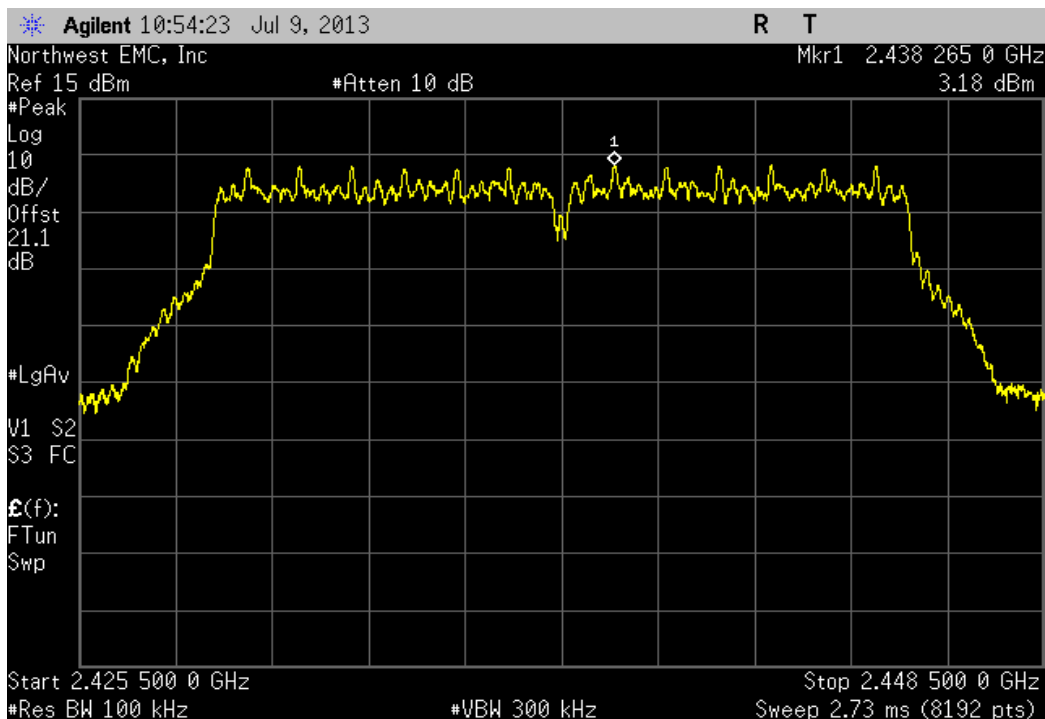
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-57.6 dBc	≤ -20 dBc	Pass	



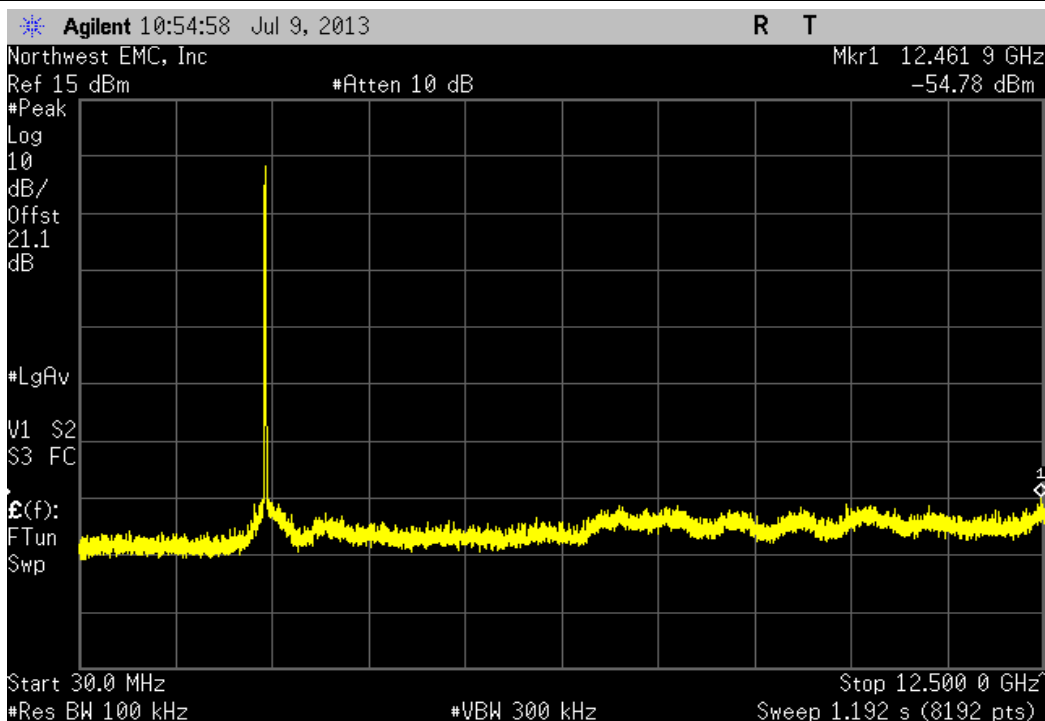
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.75 dBc	≤ -20 dBc	Pass	



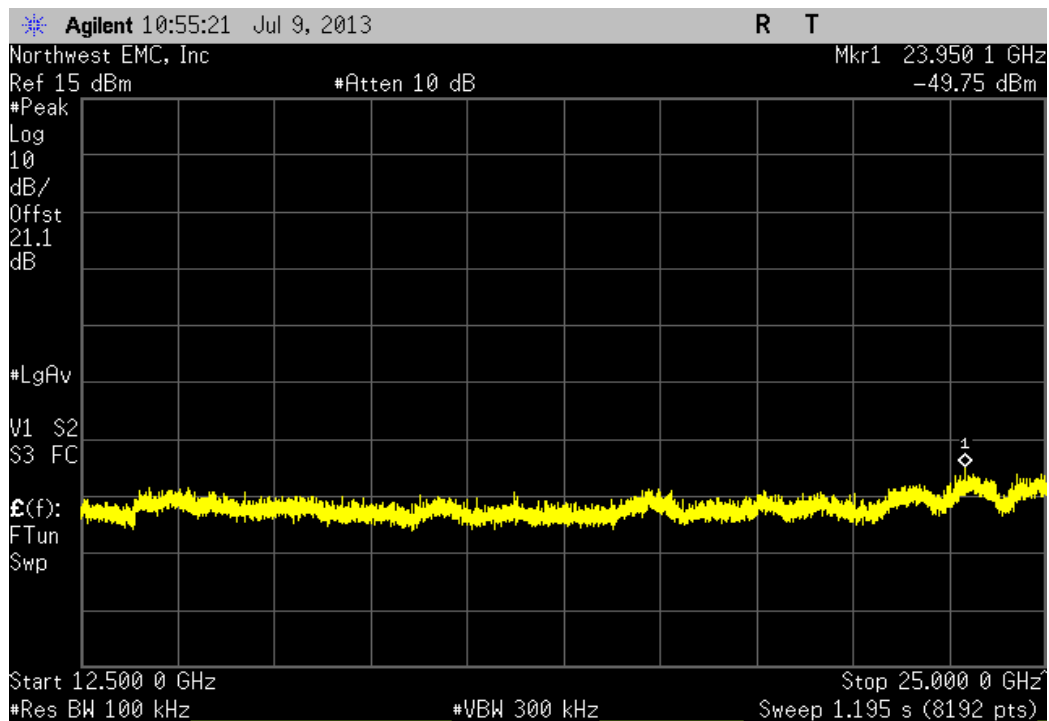
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



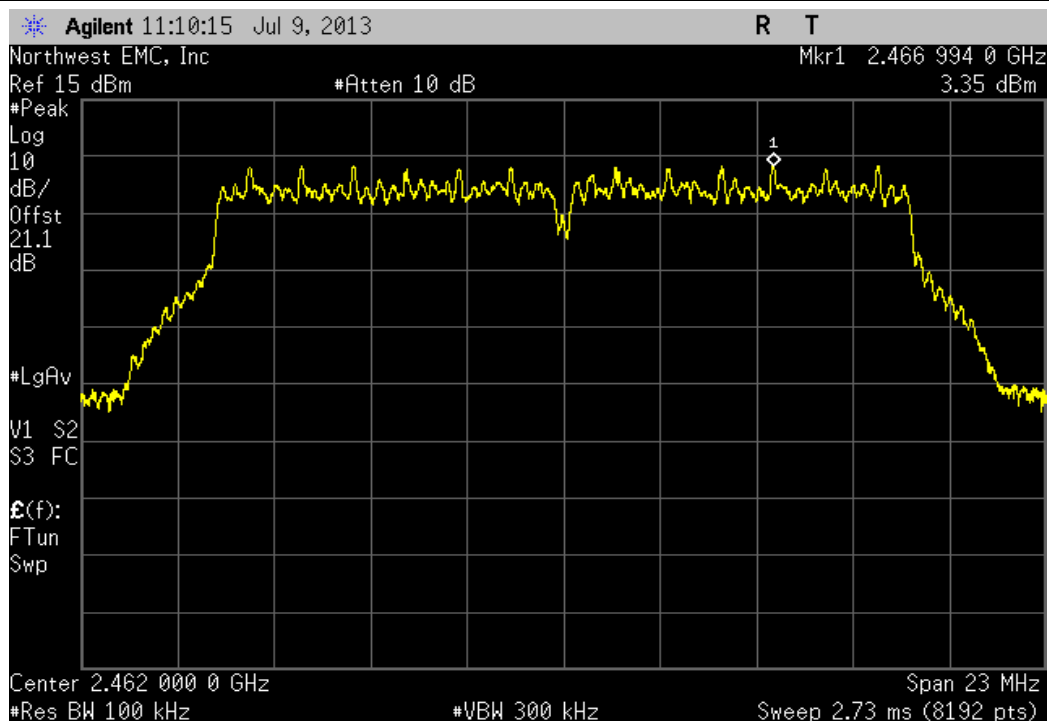
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.96 dBc	≤ -20 dBc	Pass



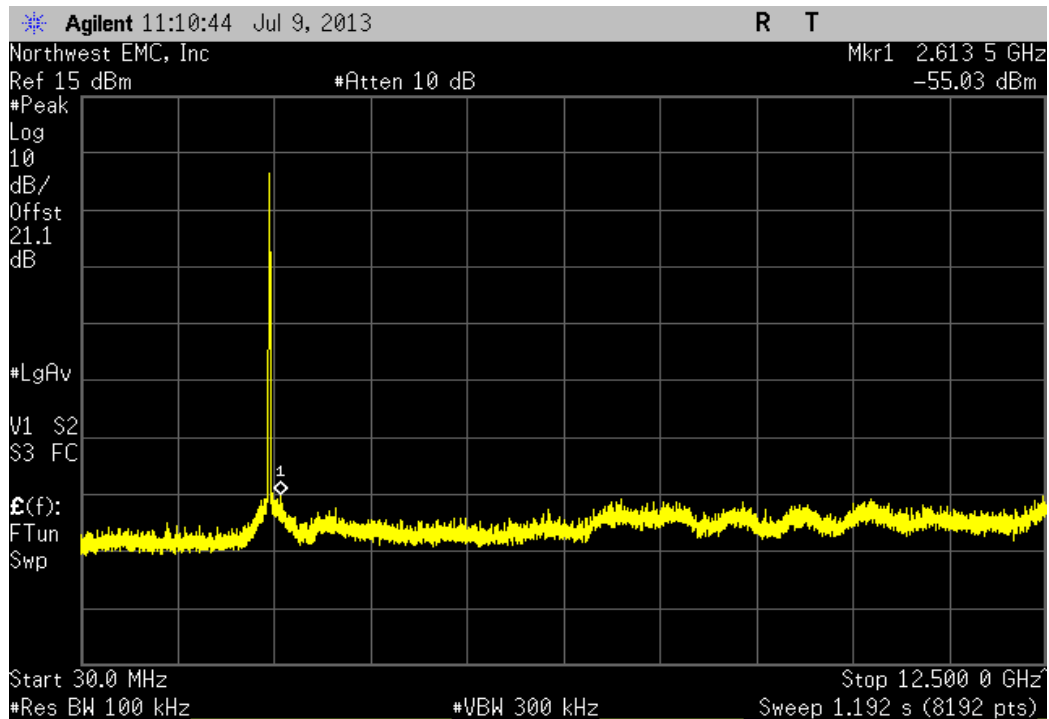
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.93 dBc	≤ -20 dBc	Pass	



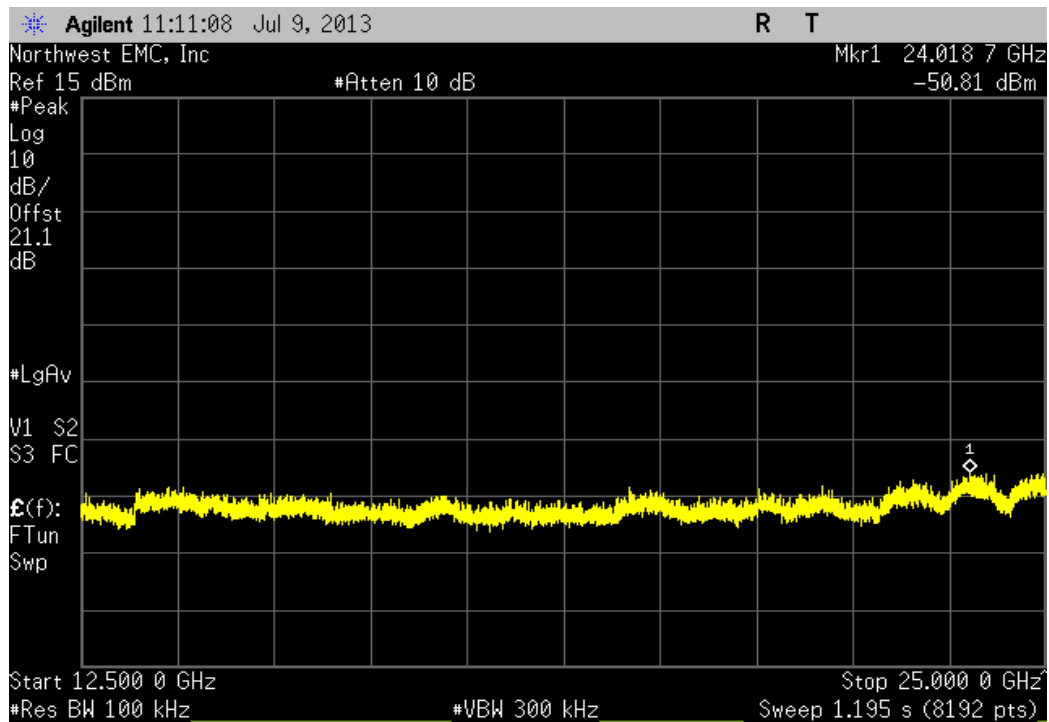
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



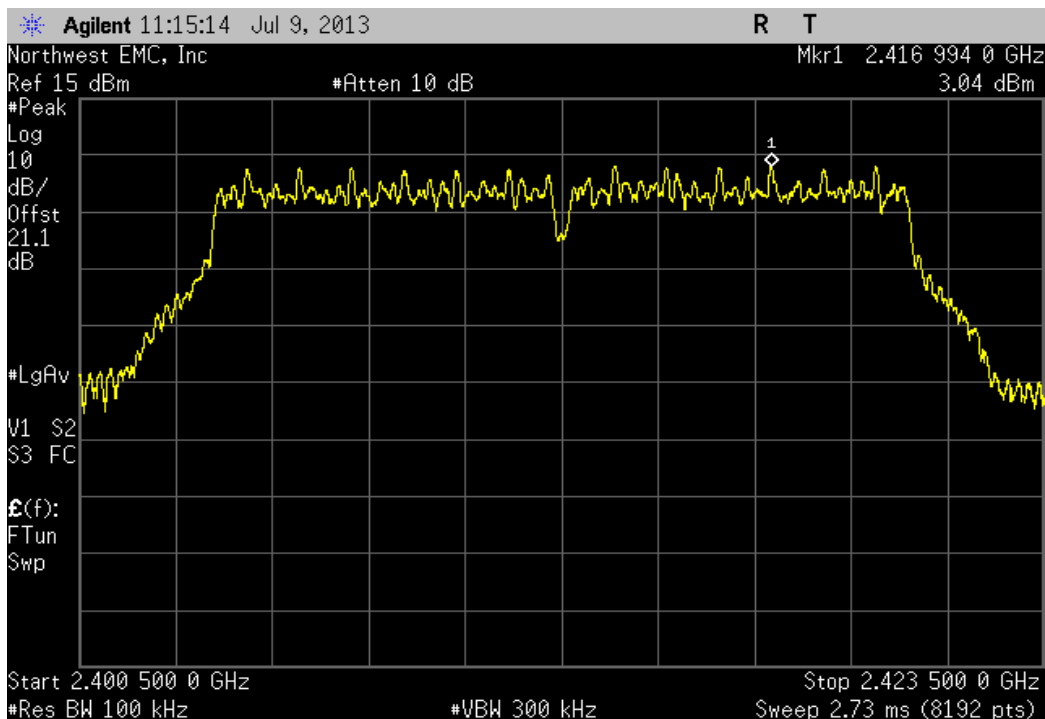
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.38 dBc	≤ -20 dBc	Pass	



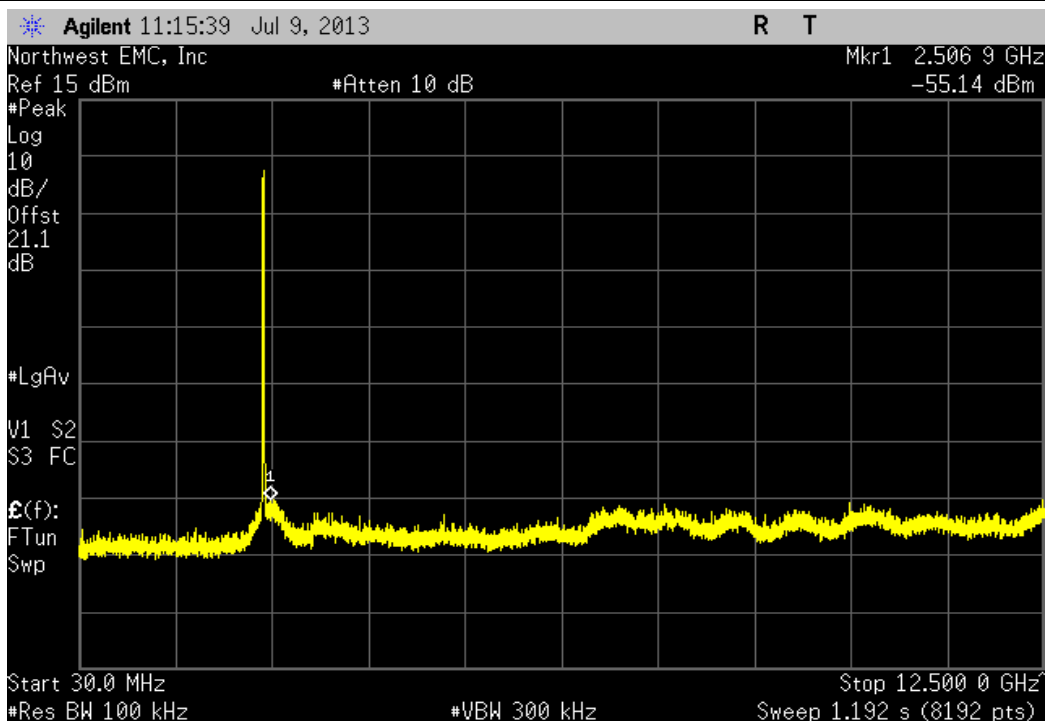
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-54.16 dBc	≤ -20 dBc	Pass	



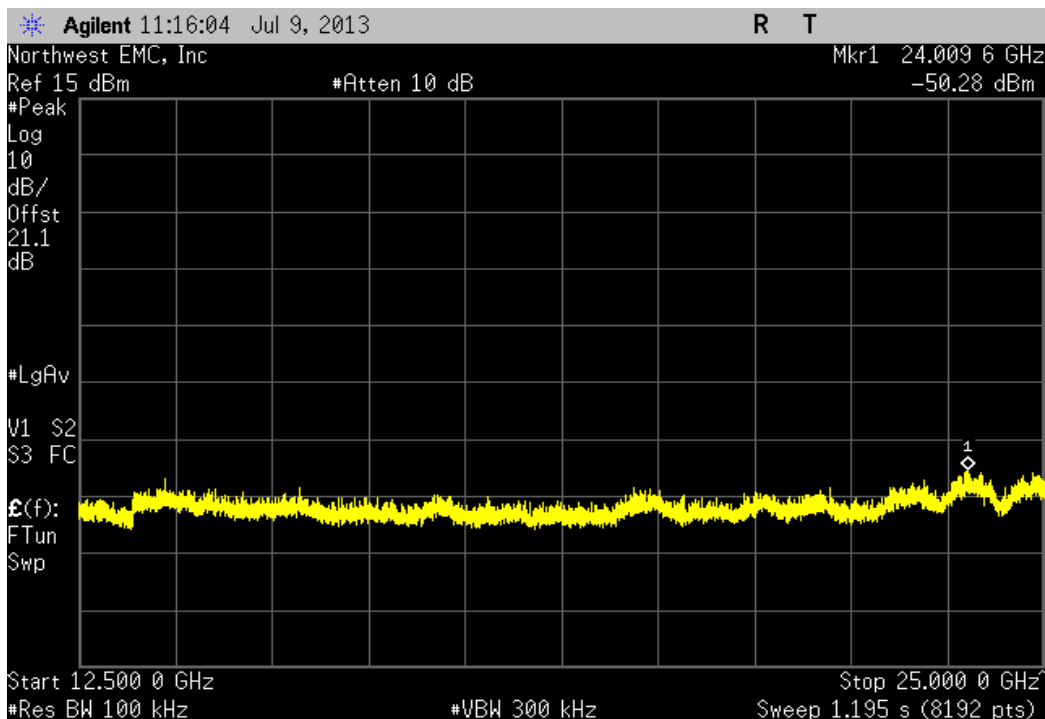
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



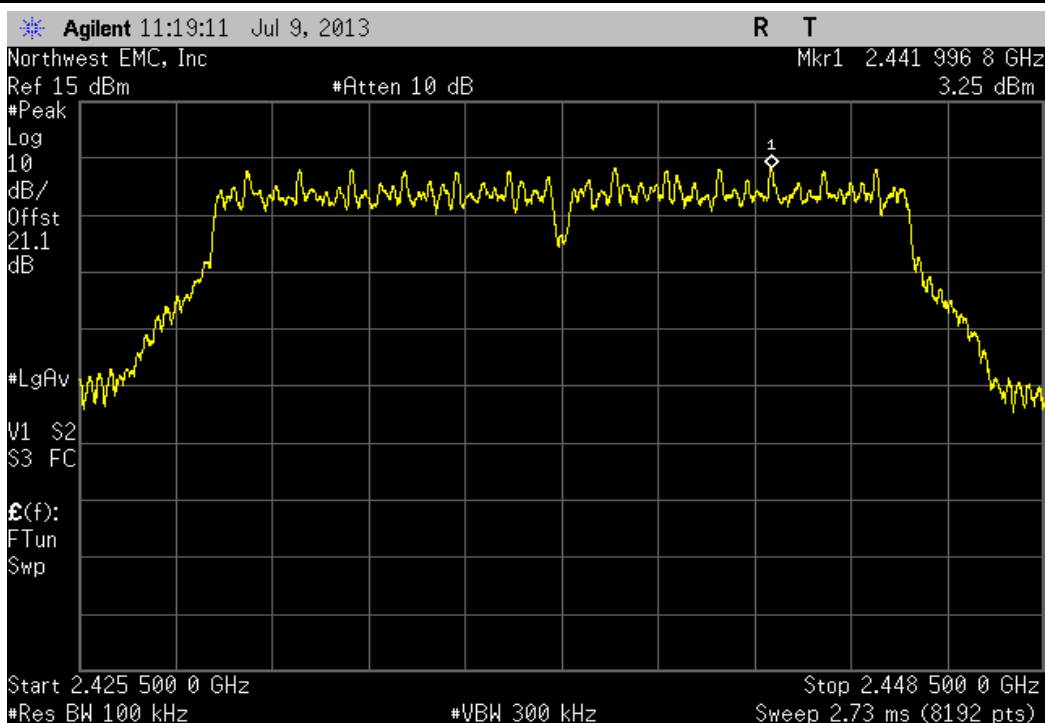
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-58.18 dBc	≤ -20 dBc	Pass



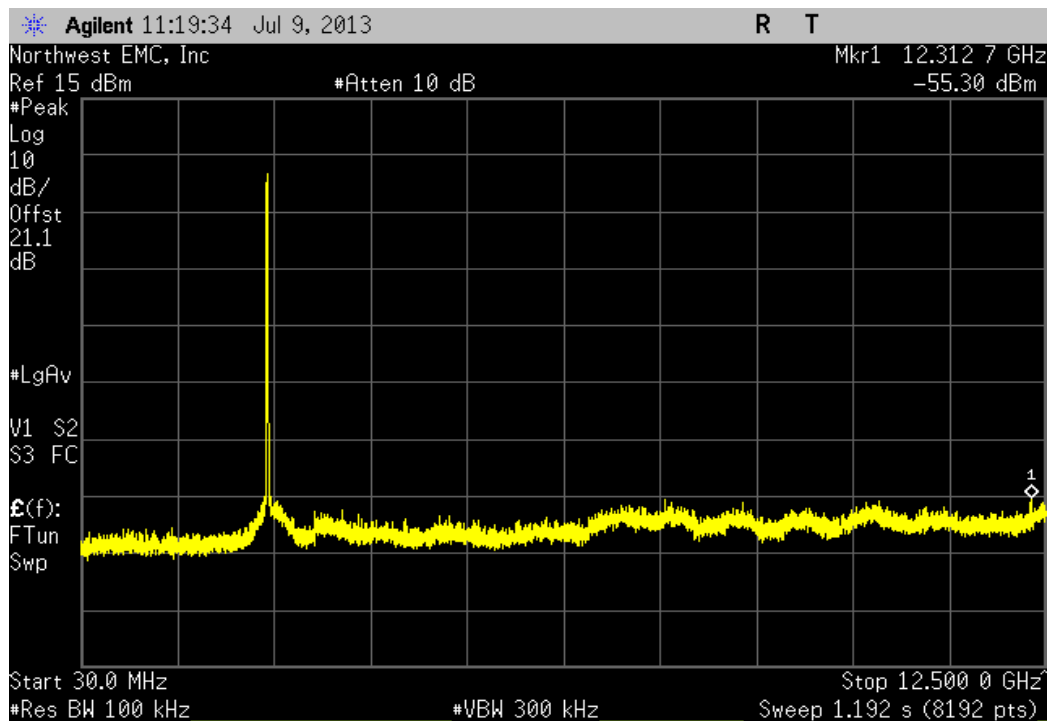
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.32 dBc	≤ -20 dBc	Pass



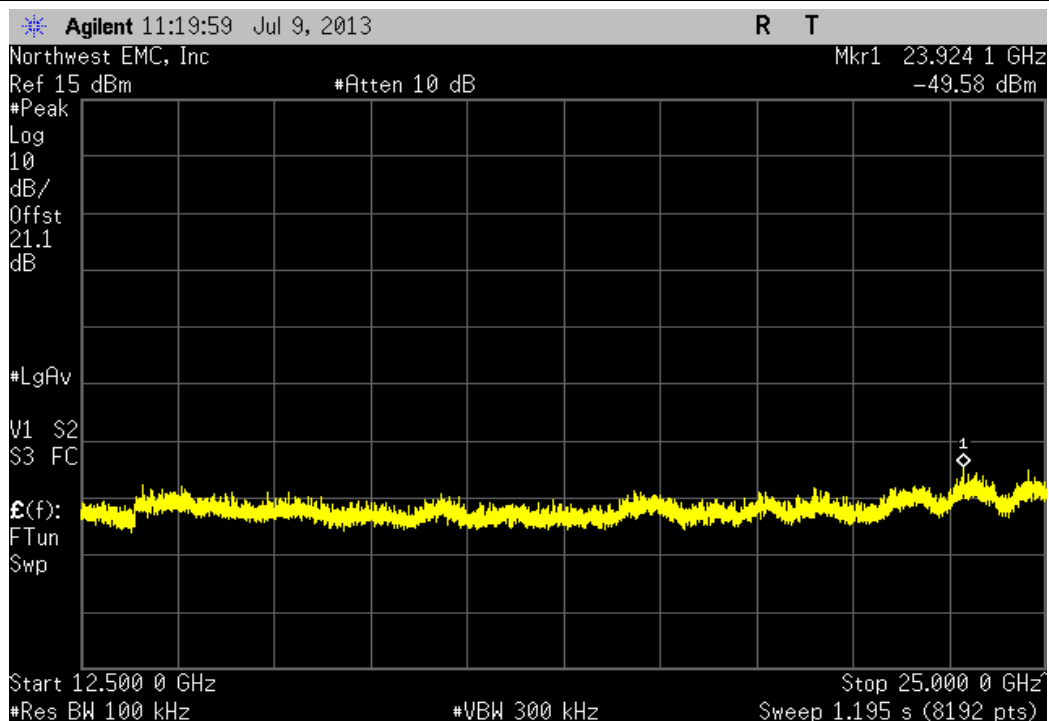
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



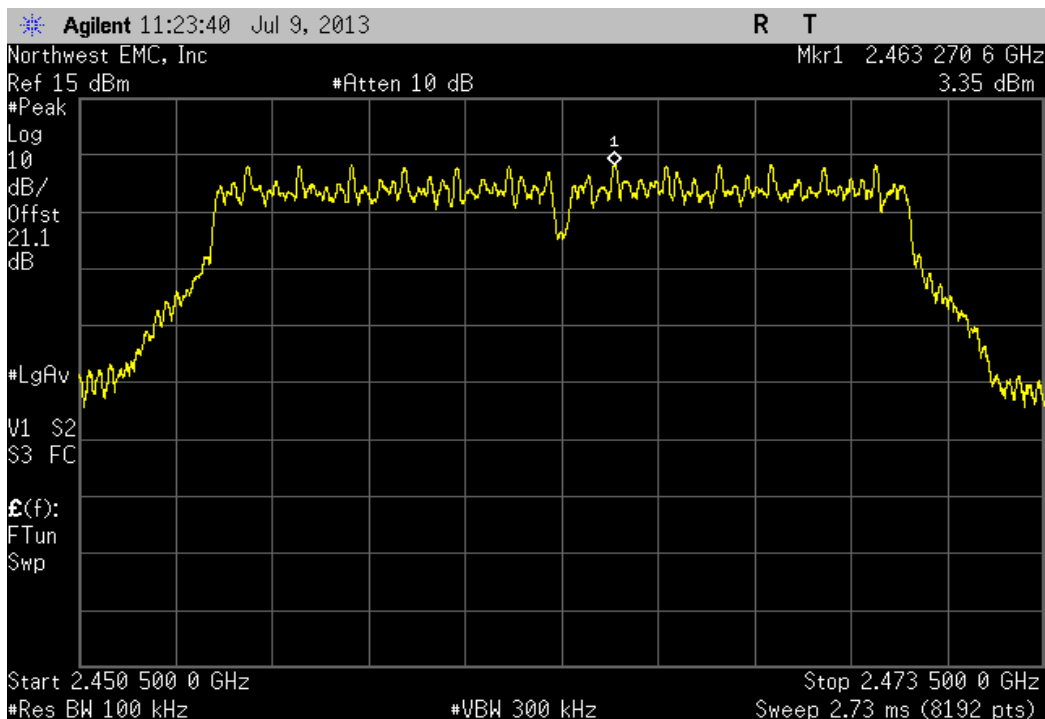
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.55 dBc	≤ -20 dBc	Pass	



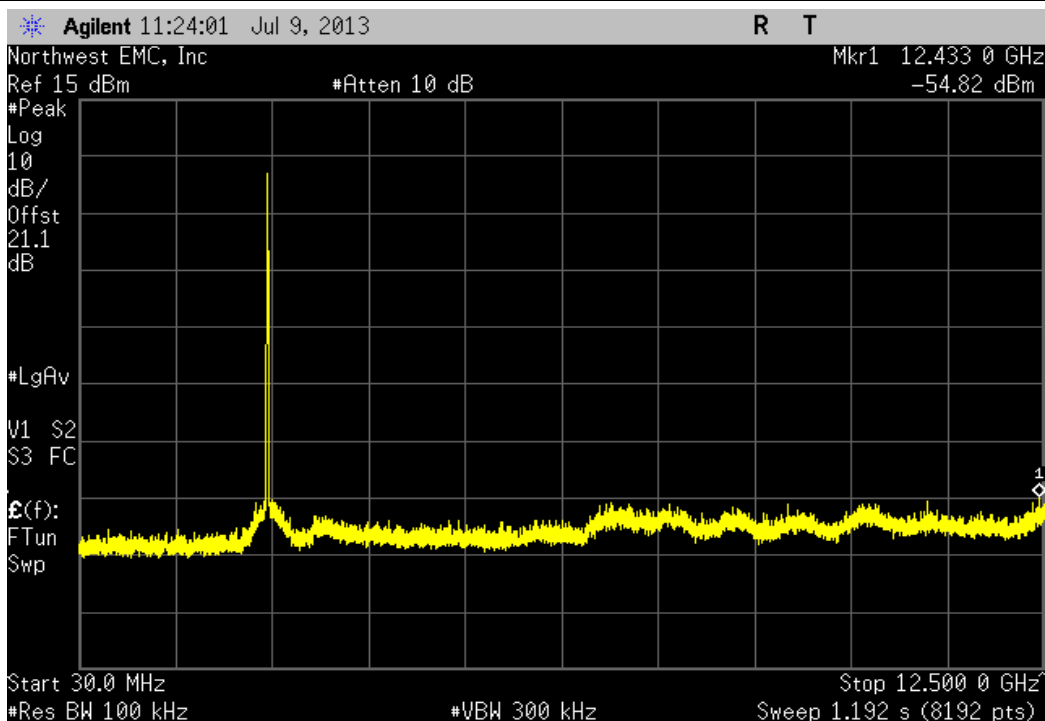
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-52.83 dBc	≤ -20 dBc	Pass	



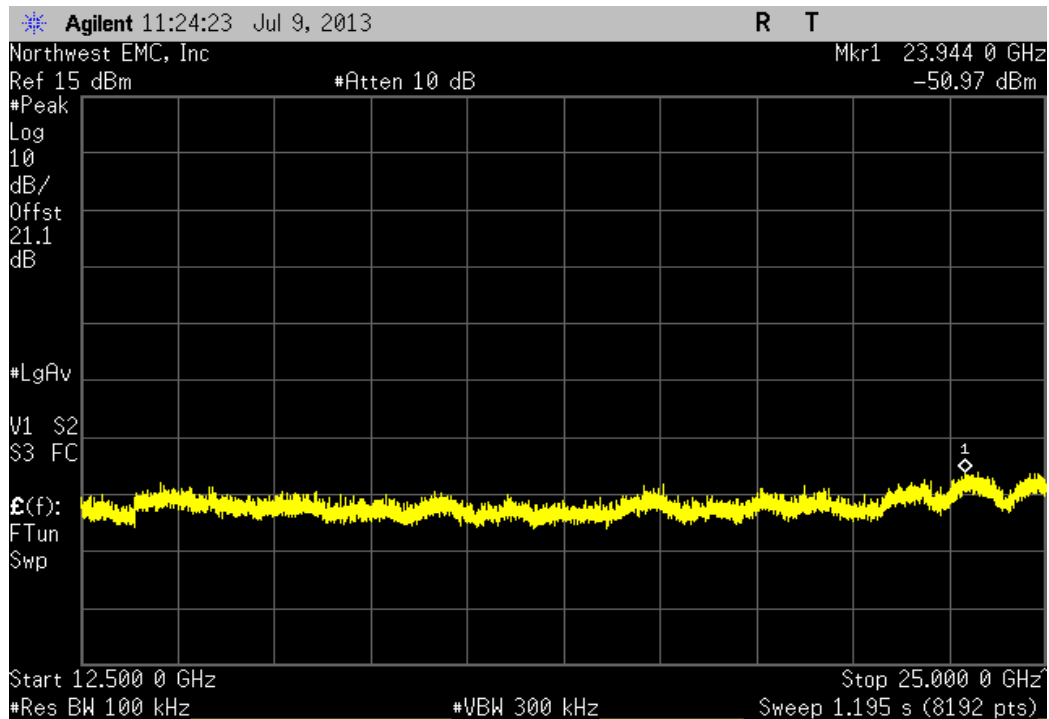
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A



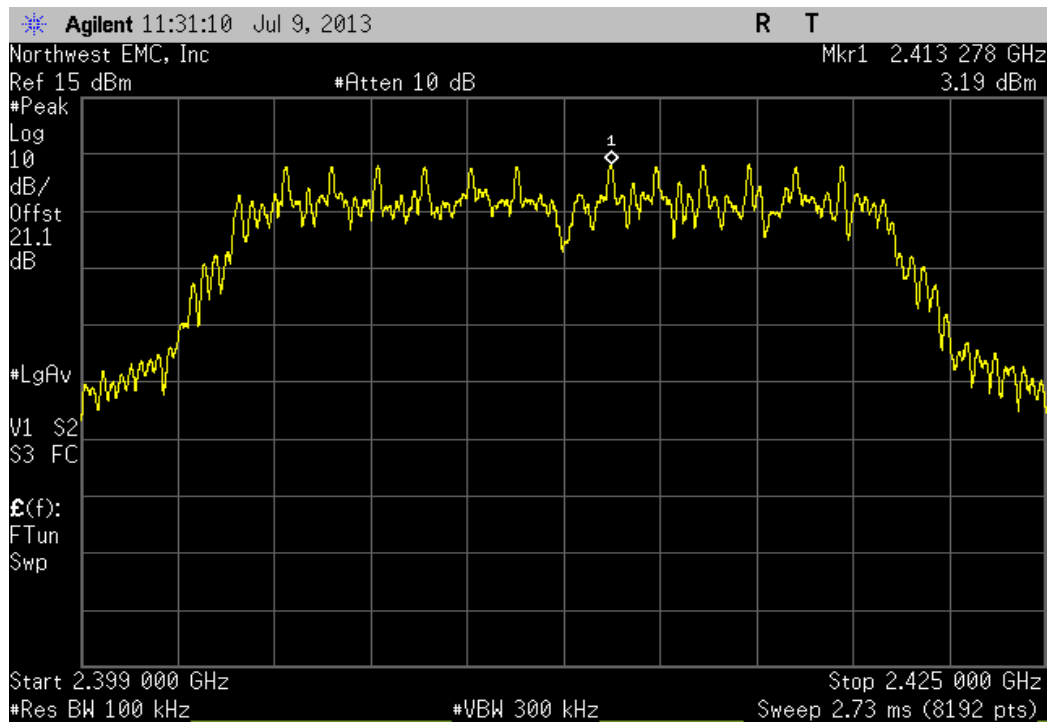
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range				Value	Limit	Result
	30 MHz - 12.5 GHz			-58.17 dBc	≤ -20 dBc	Pass



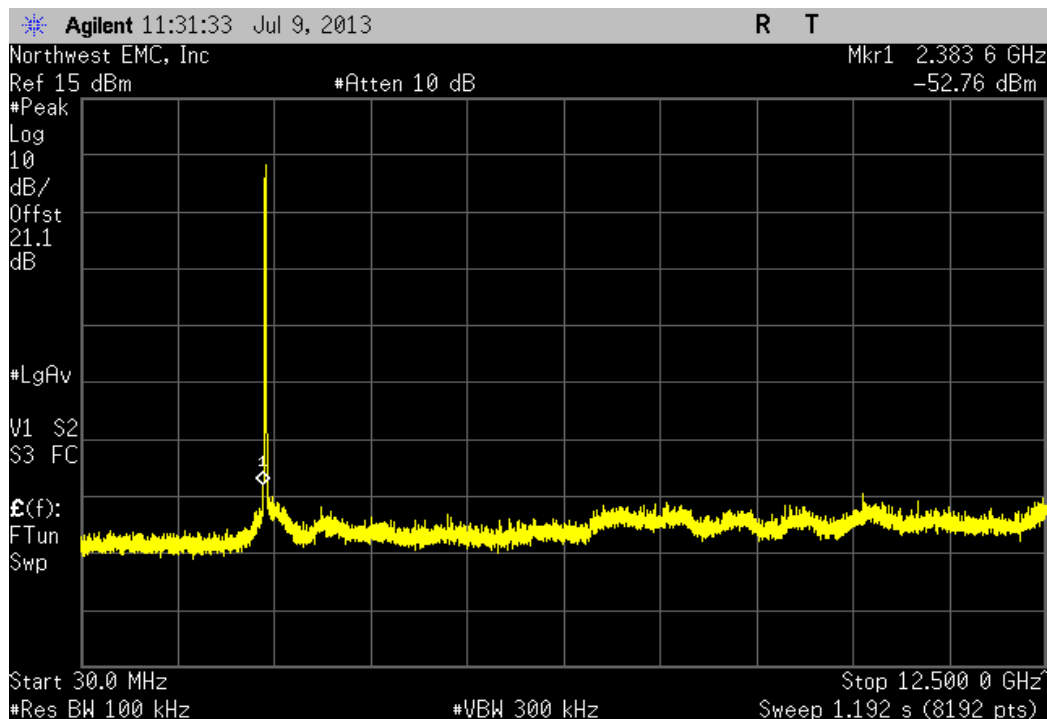
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.32 dBc	≤ -20 dBc	Pass



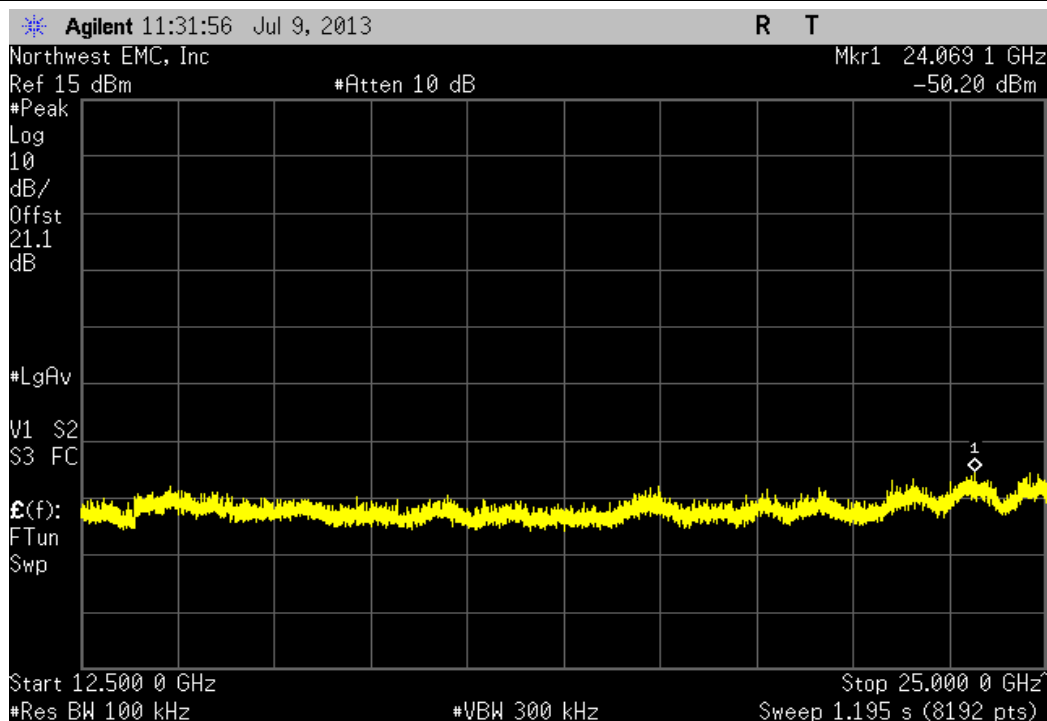
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



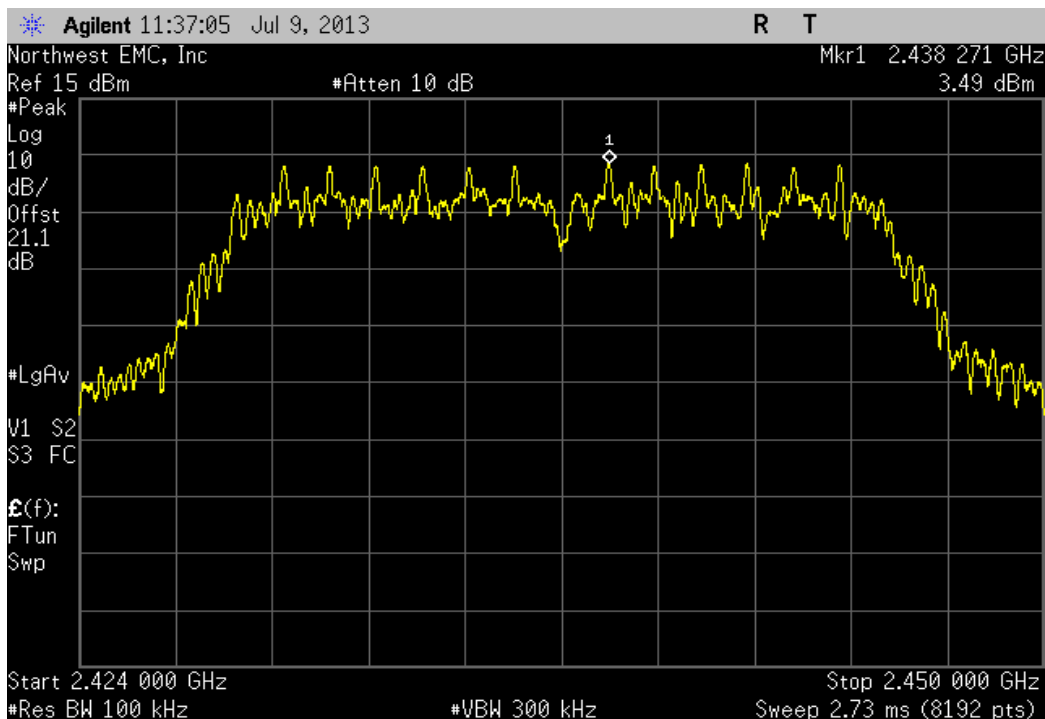
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-55.96 dBc	≤ -20 dBc	Pass	



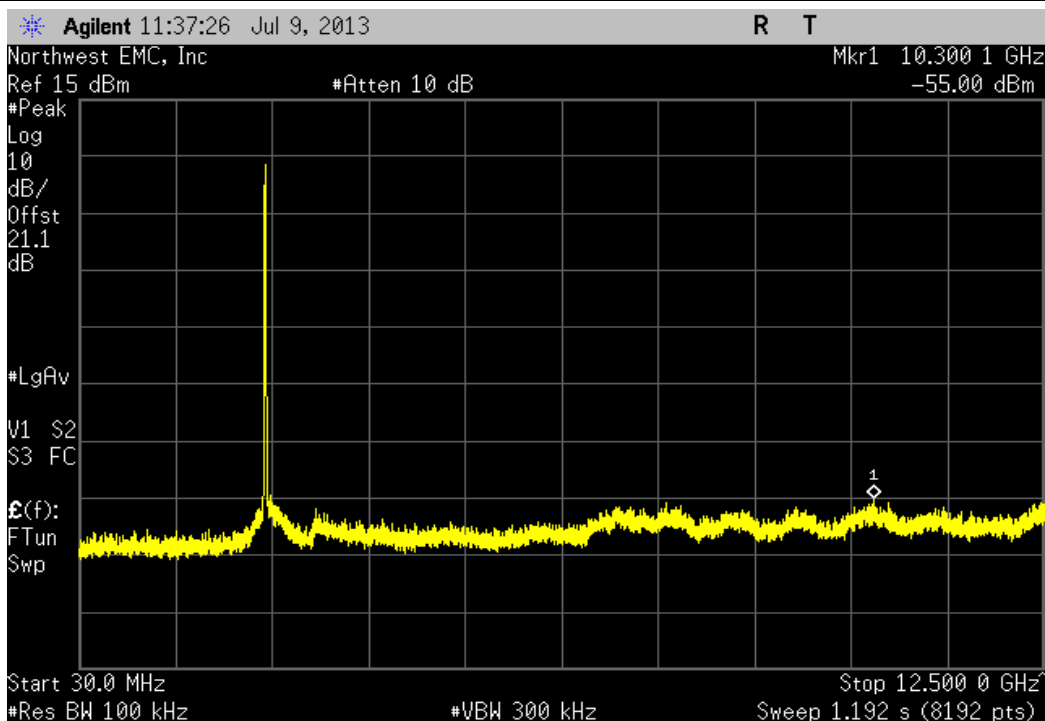
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.4 dBc	≤ -20 dBc	Pass	



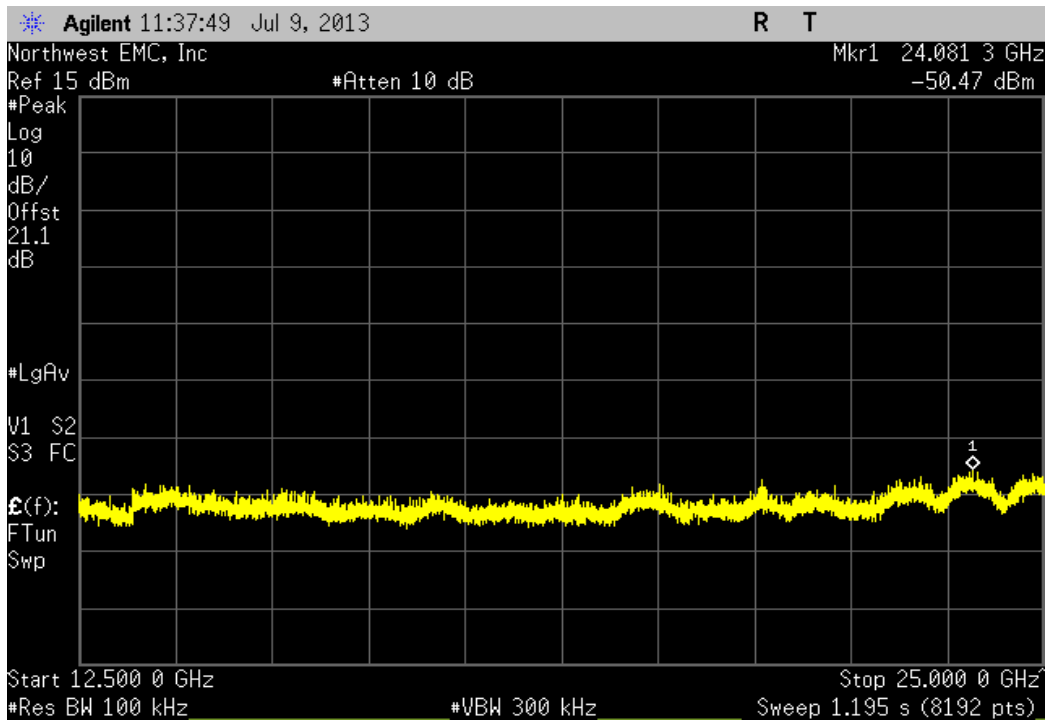
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



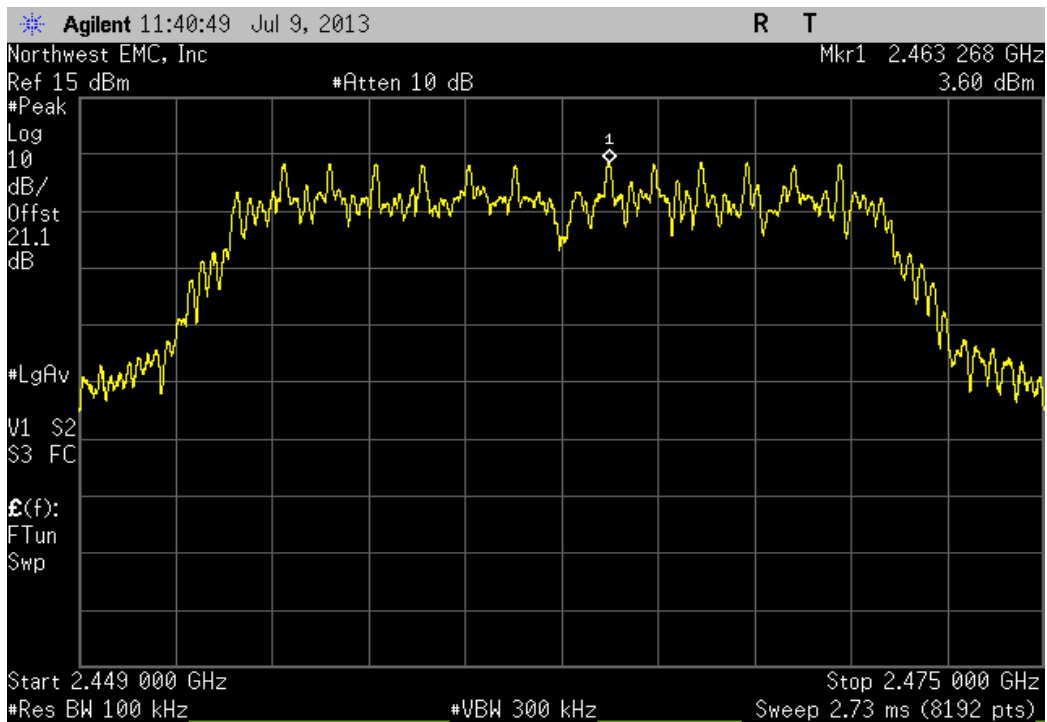
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.49 dBc	≤ -20 dBc	Pass



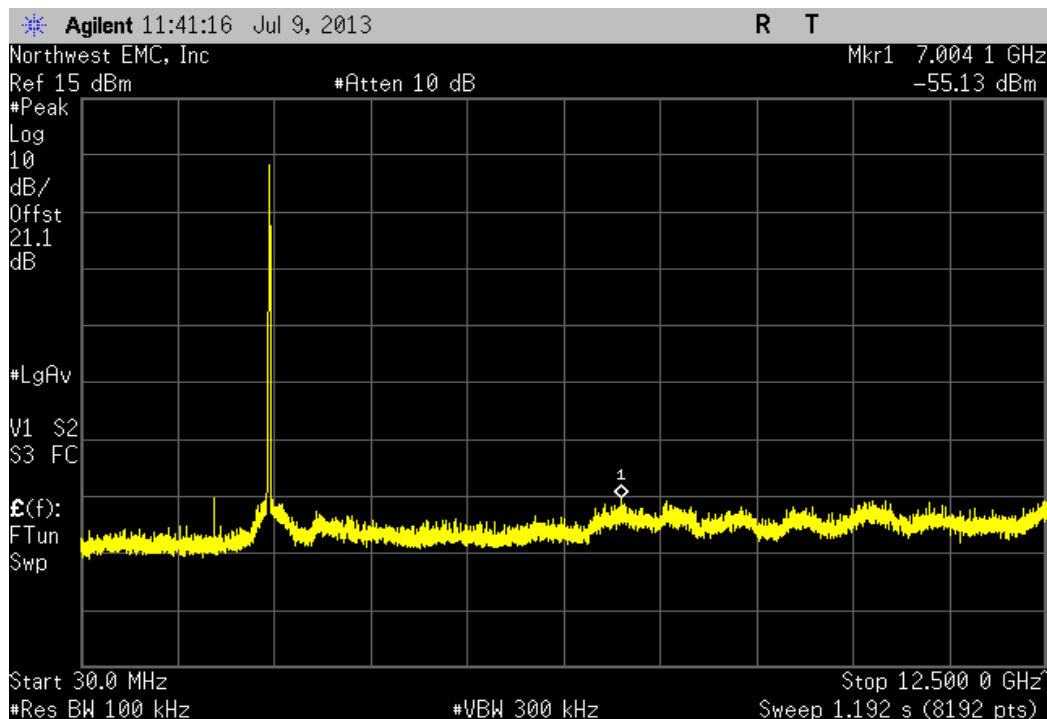
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.96 dBc	≤ -20 dBc	Pass	



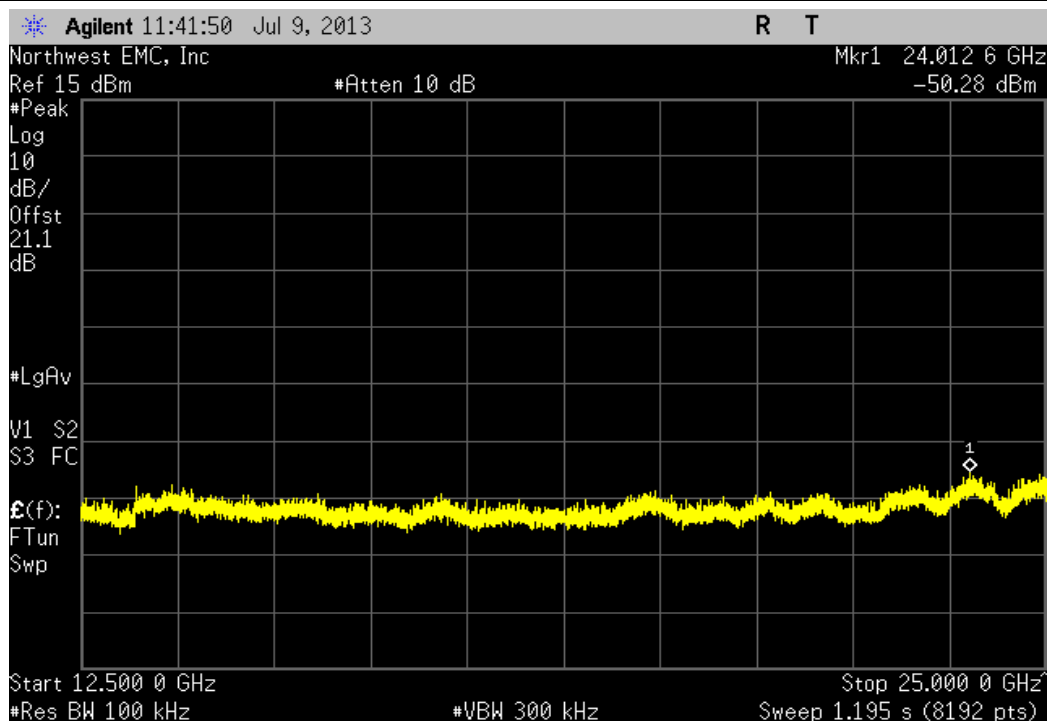
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



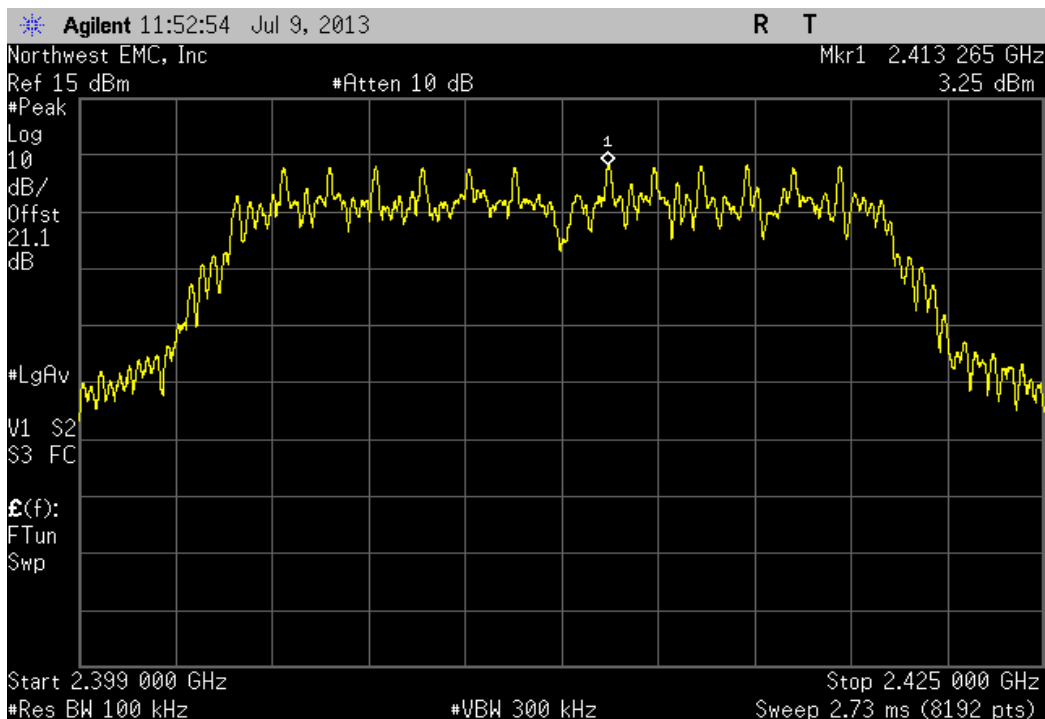
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-58.73 dBc	≤ -20 dBc	Pass	



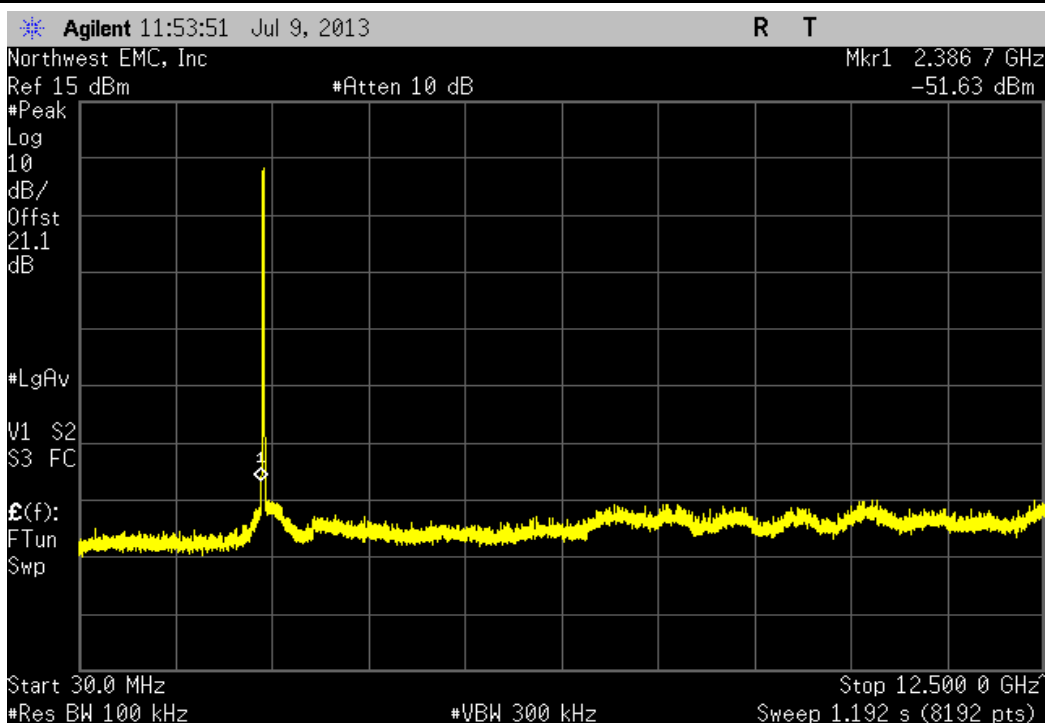
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.88 dBc	≤ -20 dBc	Pass	



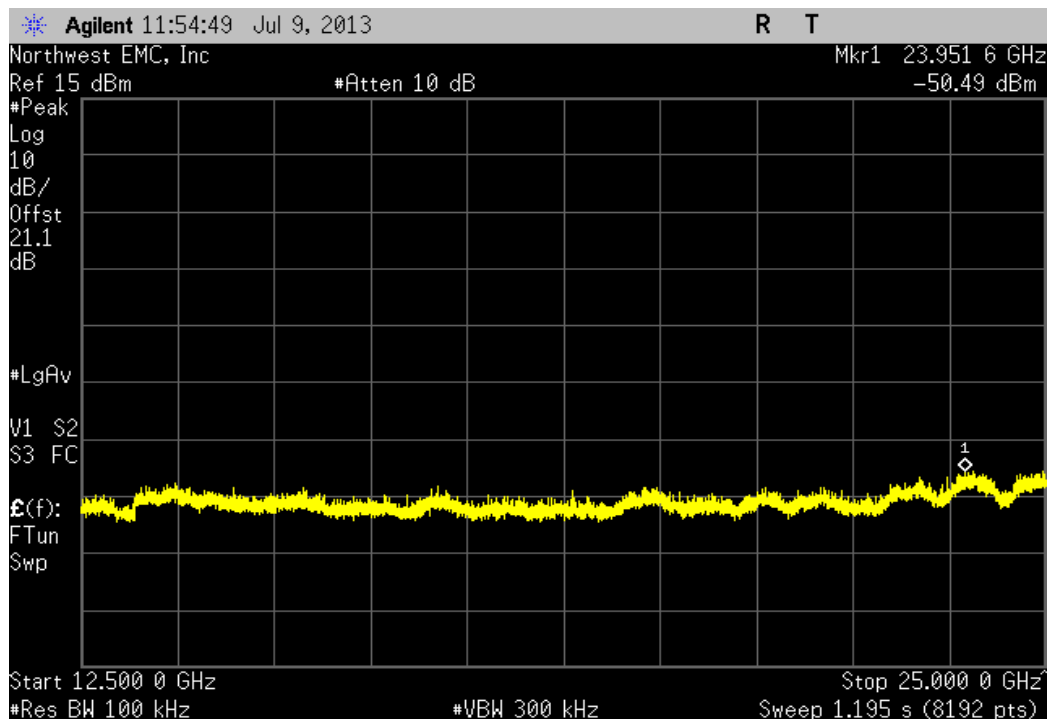
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



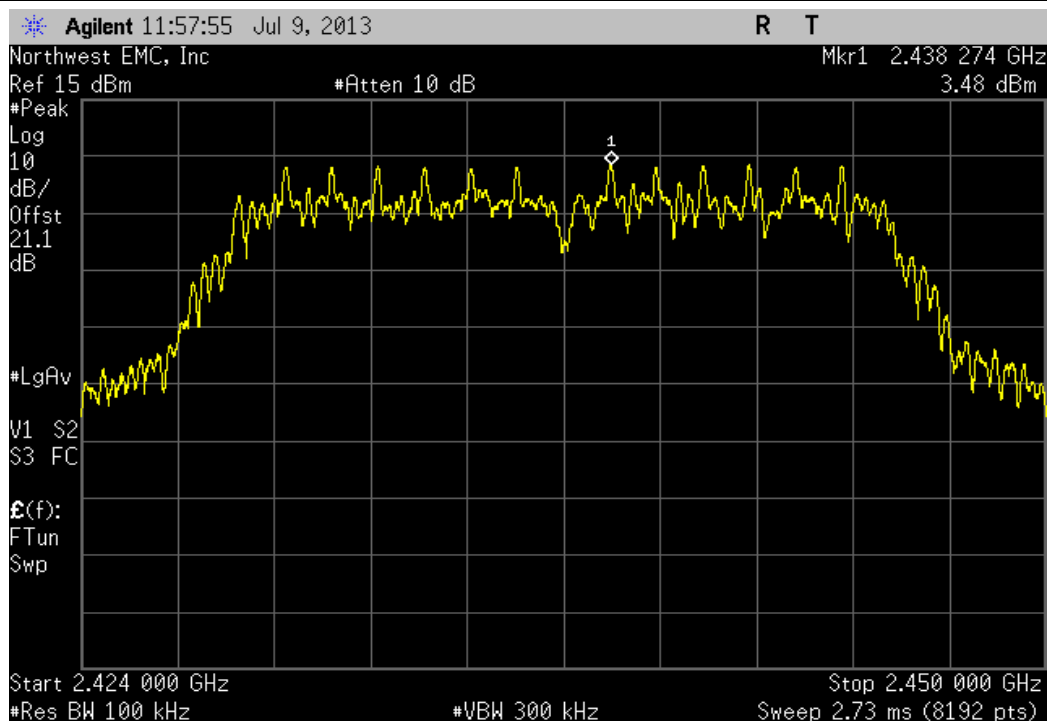
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-54.88 dBc	≤ -20 dBc	Pass



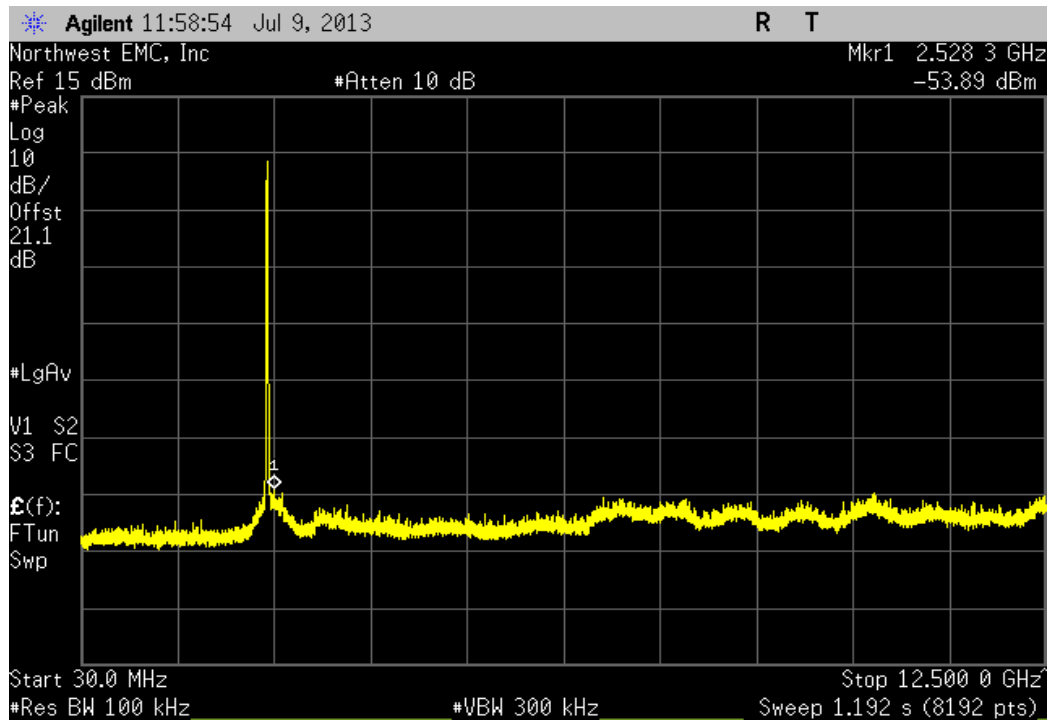
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.74 dBc	≤ -20 dBc	Pass



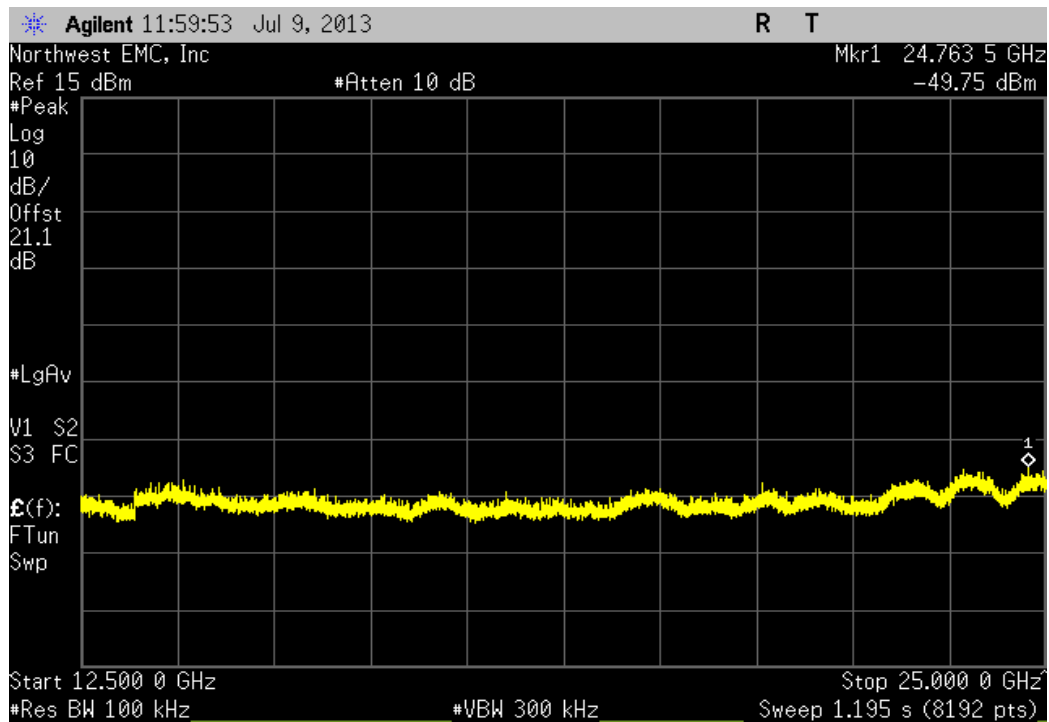
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



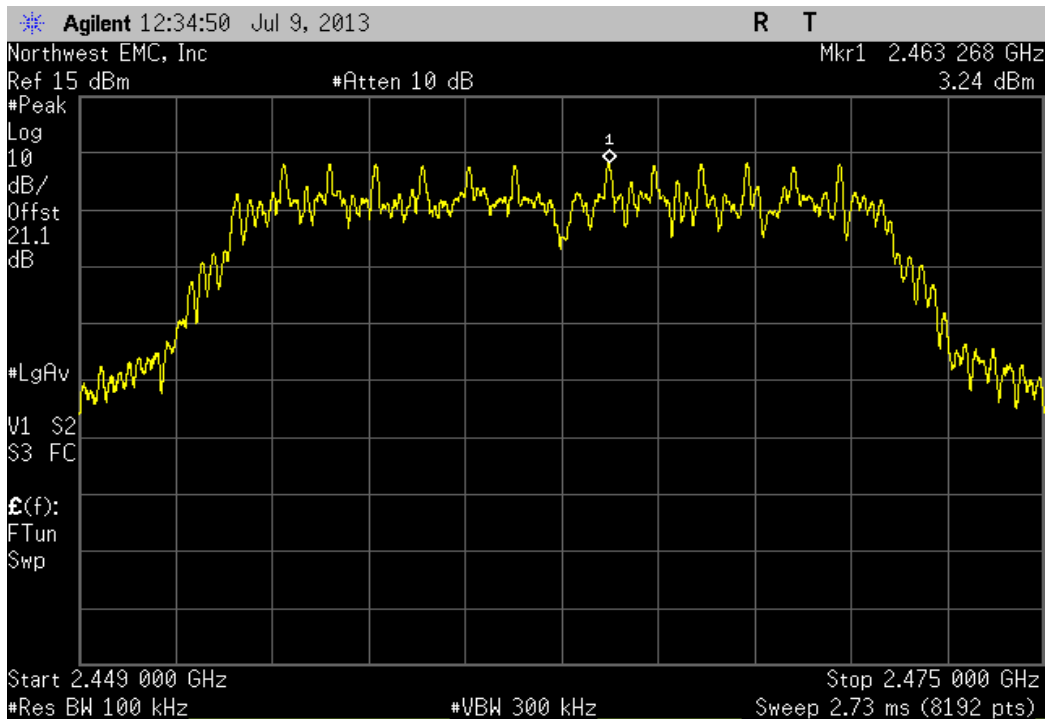
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-57.37 dBc	≤ -20 dBc	Pass	



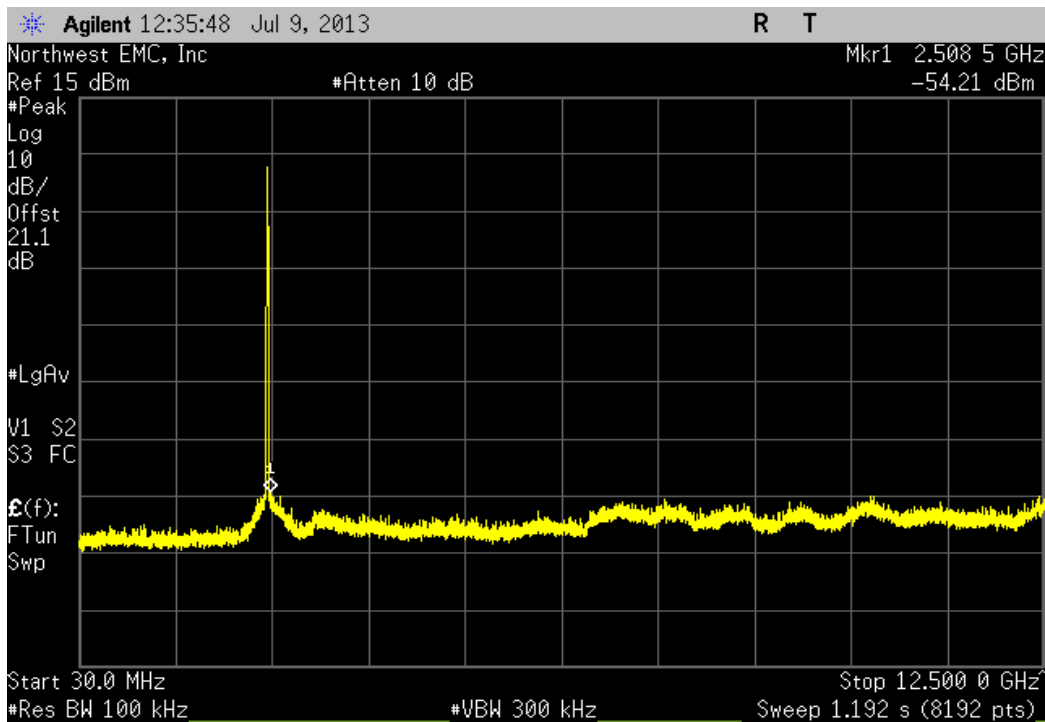
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-53.23 dBc	≤ -20 dBc	Pass	



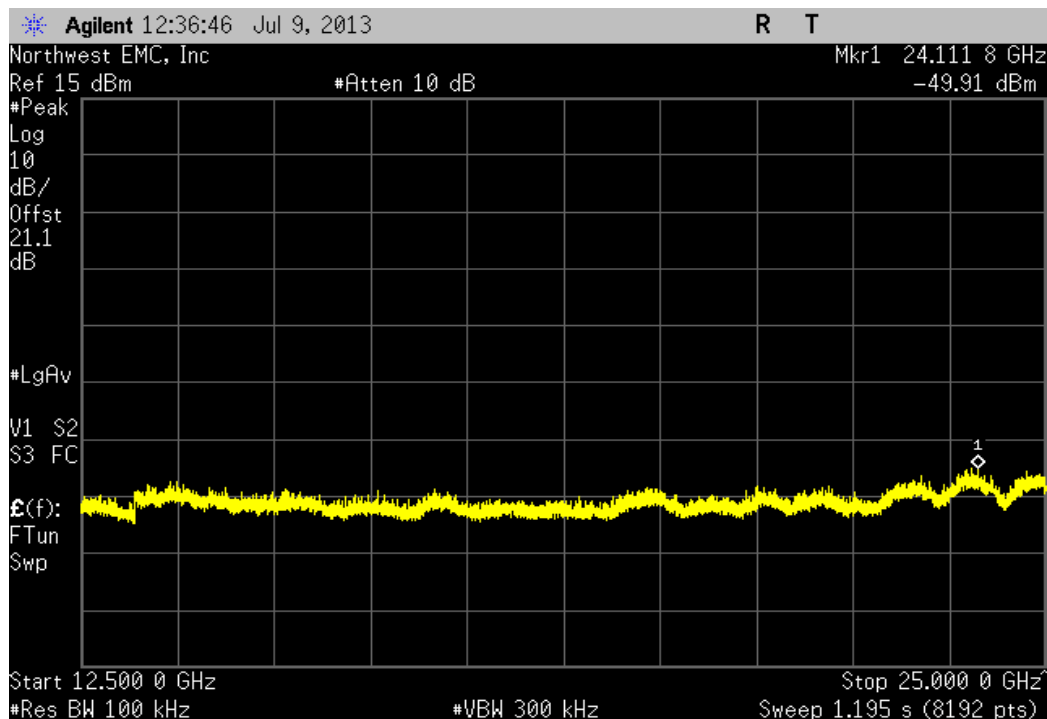
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range			Value	Limit	Result	
	Fundamental		N/A	N/A	N/A	



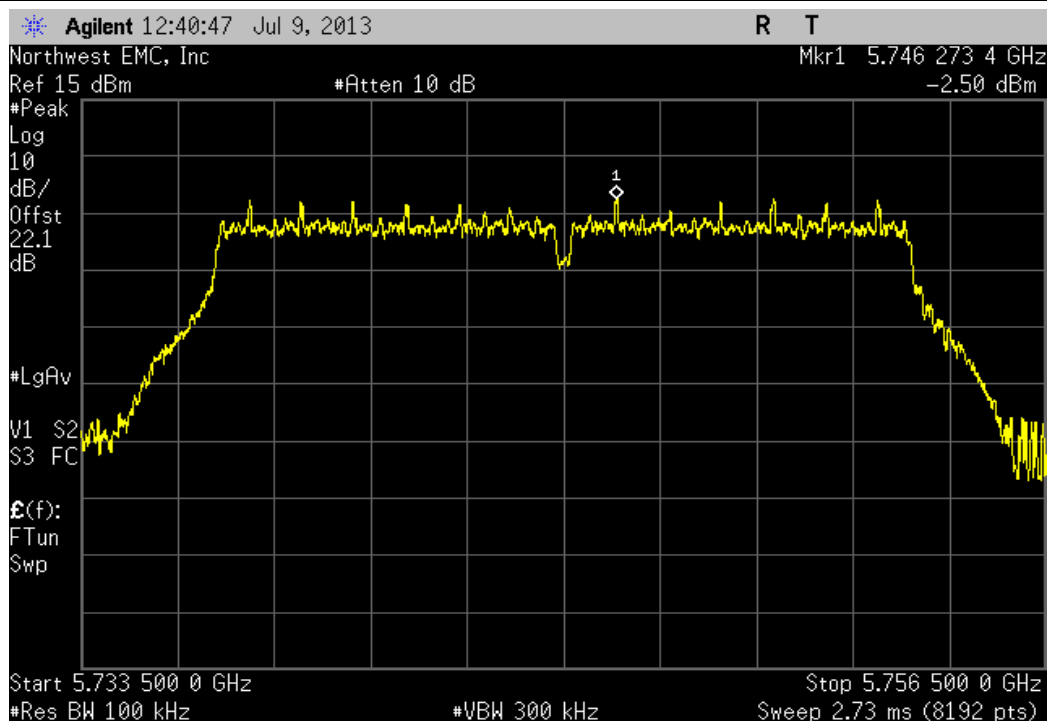
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range			Value	Limit	Result	
	30 MHz - 12.5 GHz		-57.45 dBc	≤ -20 dBc	Pass	



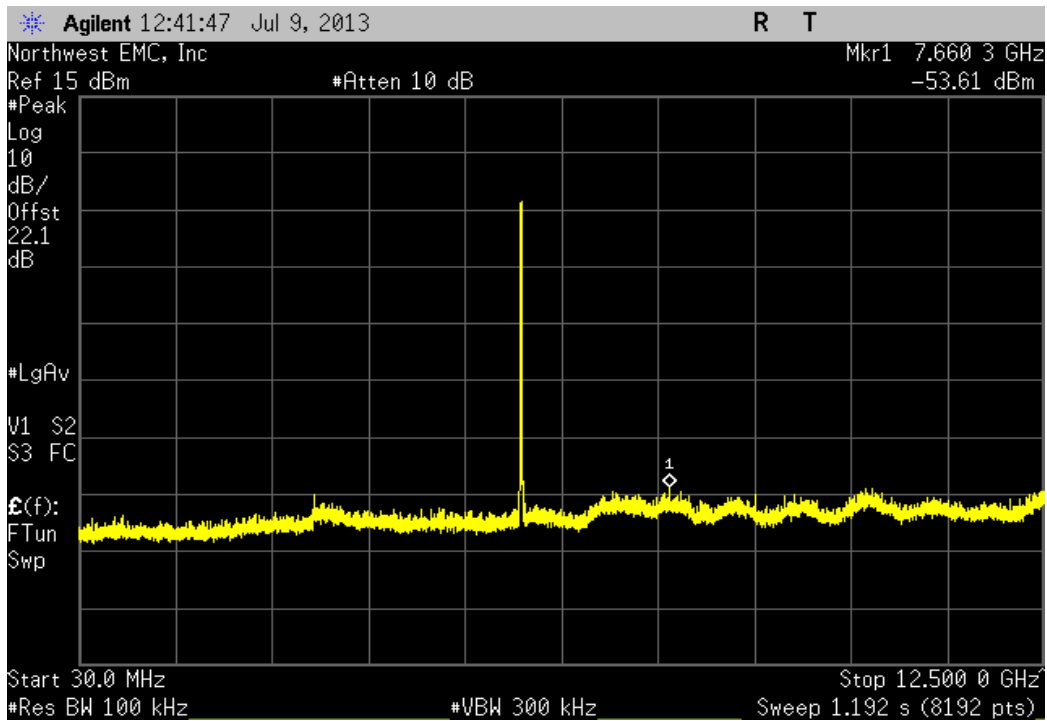
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.15 dBc	≤ -20 dBc	Pass



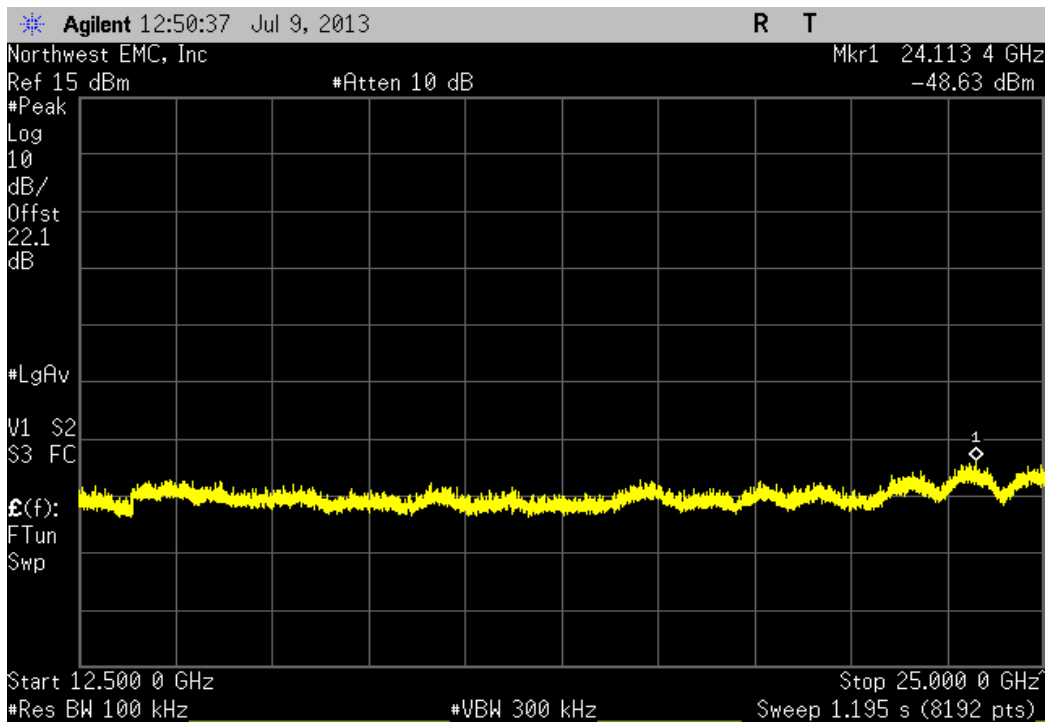
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



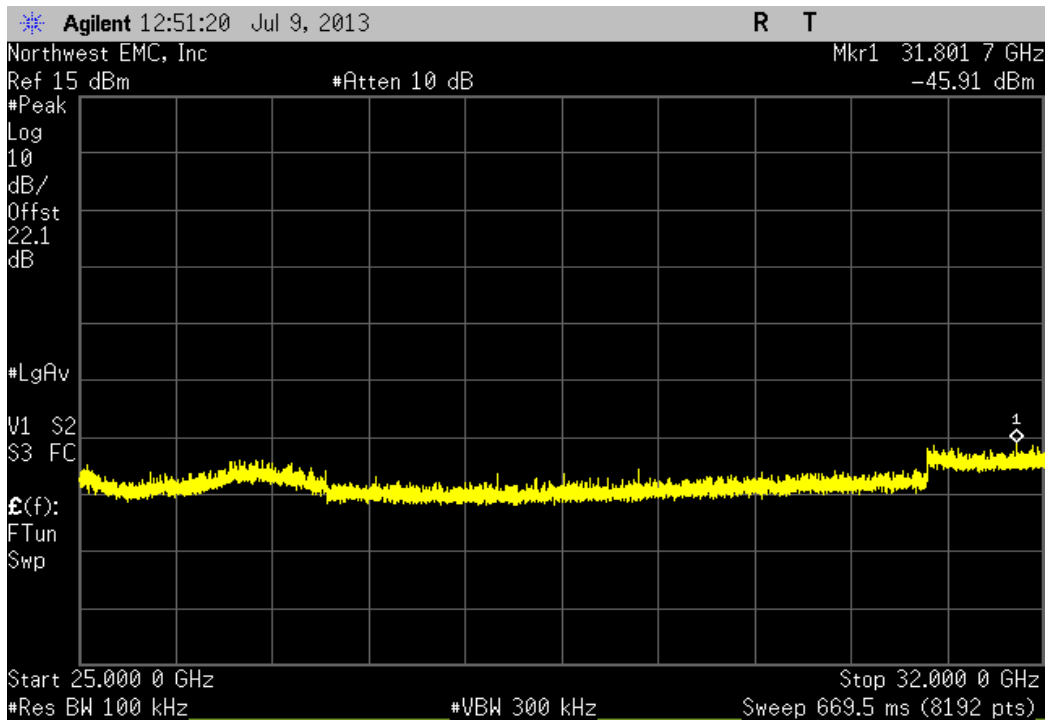
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.11 dBc	≤ -20 dBc	Pass	



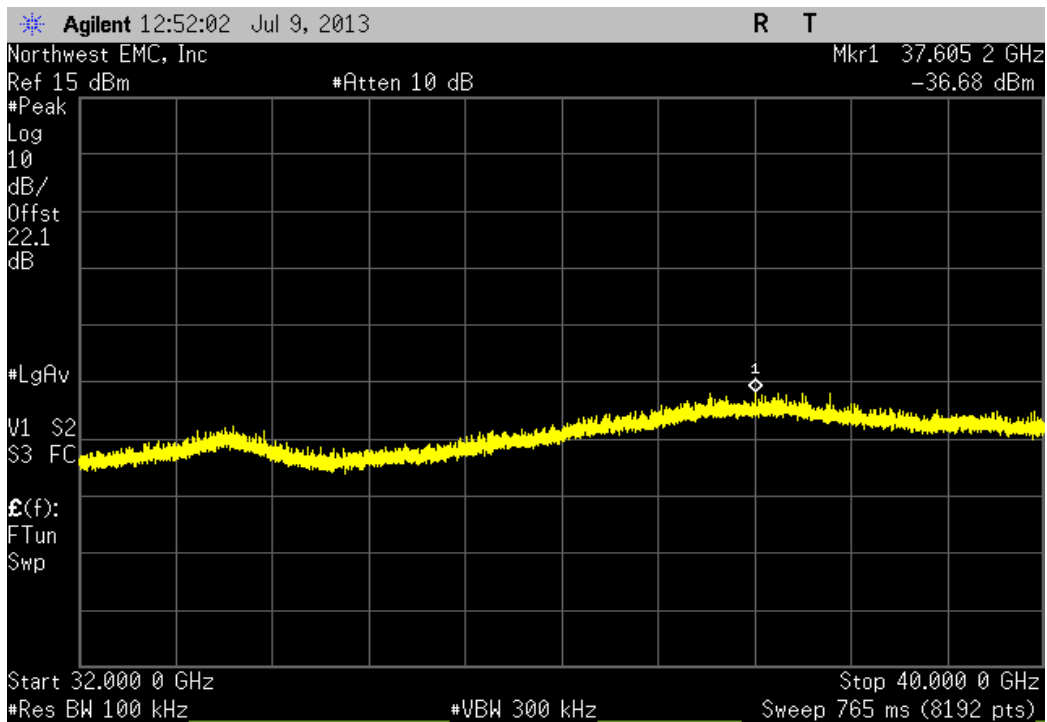
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.13 dBc	≤ -20 dBc	Pass	



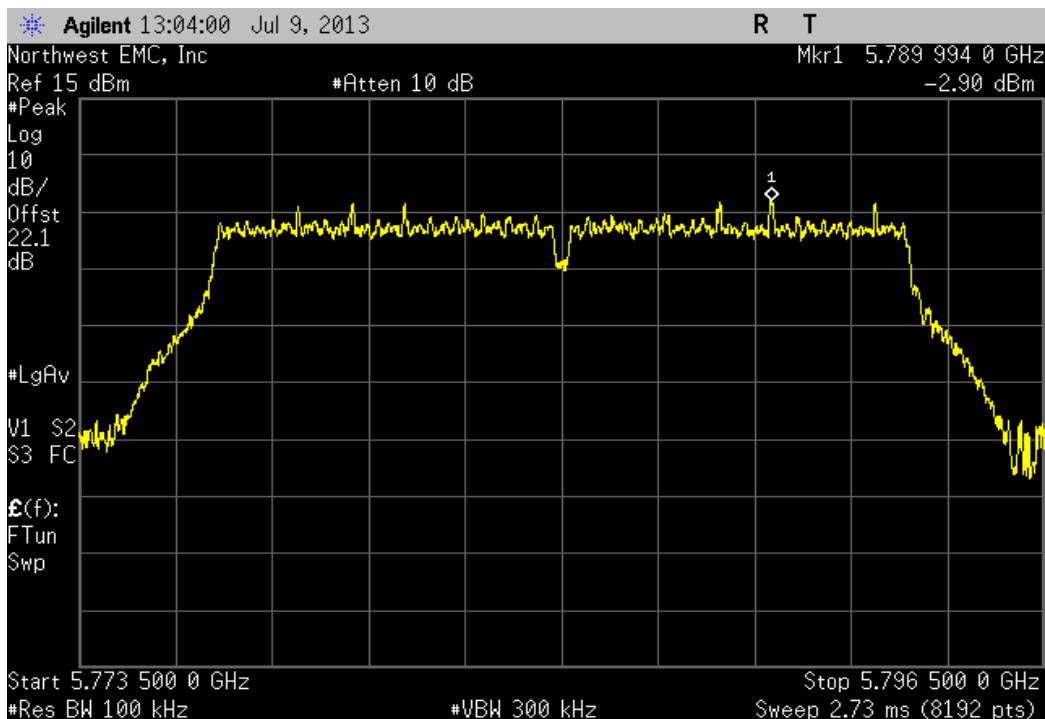
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-43.41 dBc	≤ -20 dBc	Pass



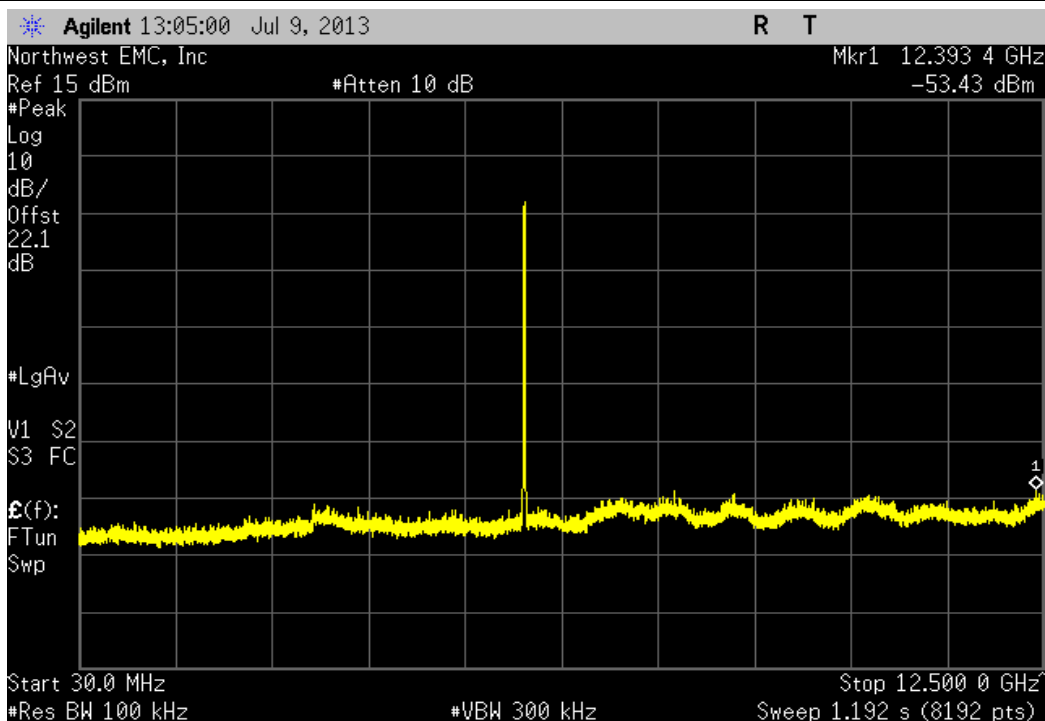
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.18 dBc	≤ -20 dBc	Pass



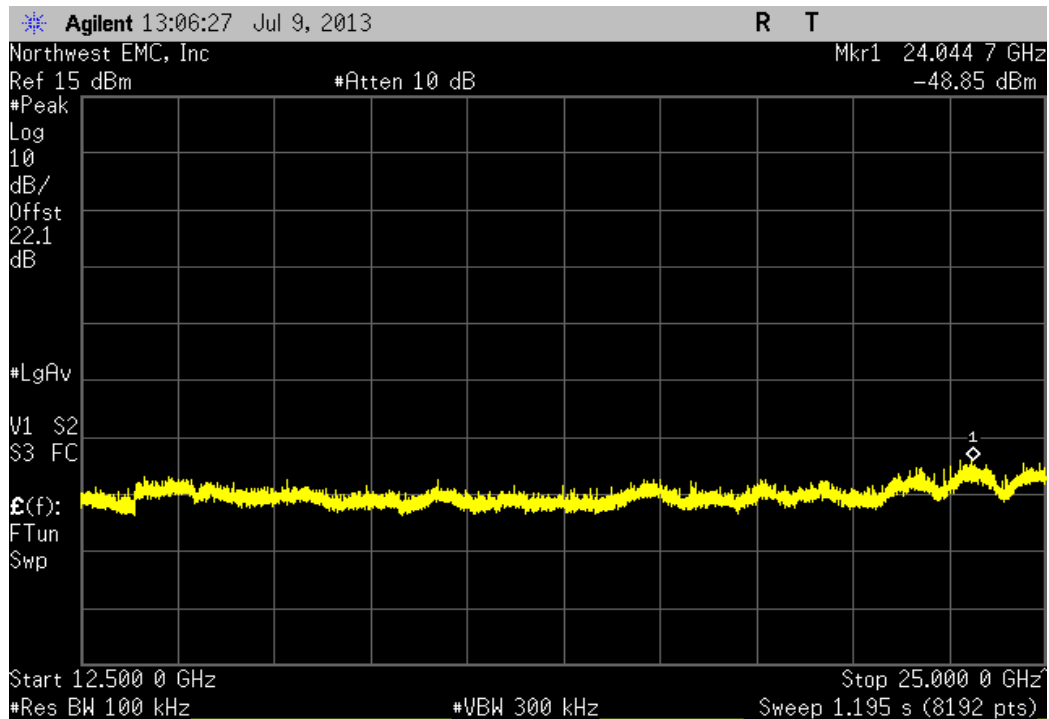
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



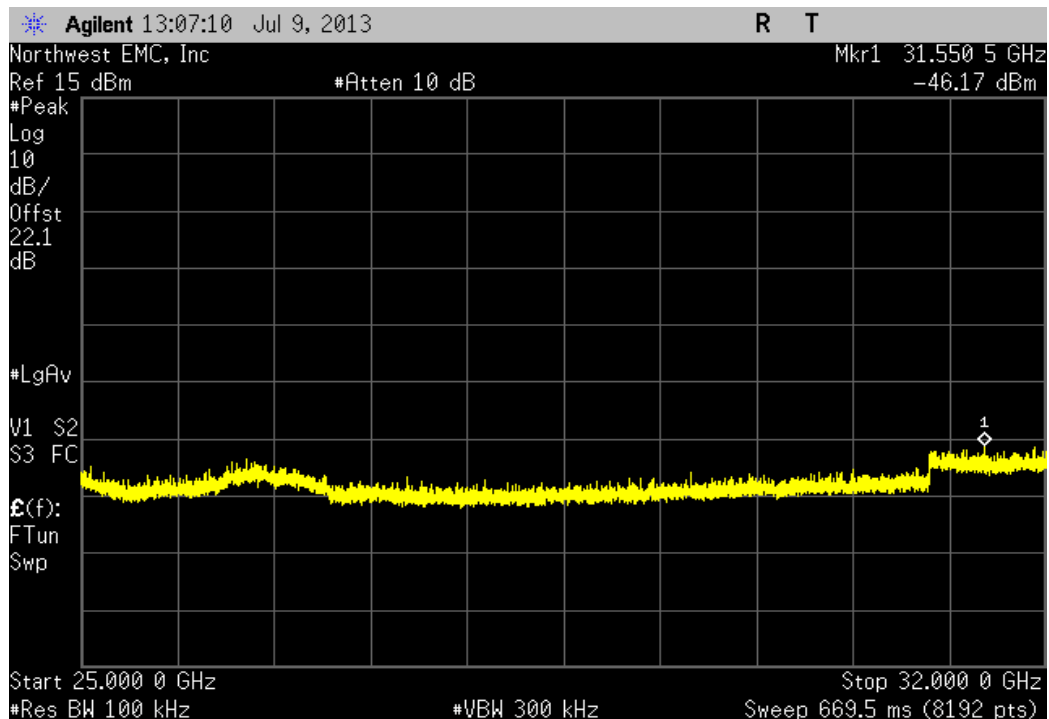
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-50.53 dBc	≤ -20 dBc	Pass



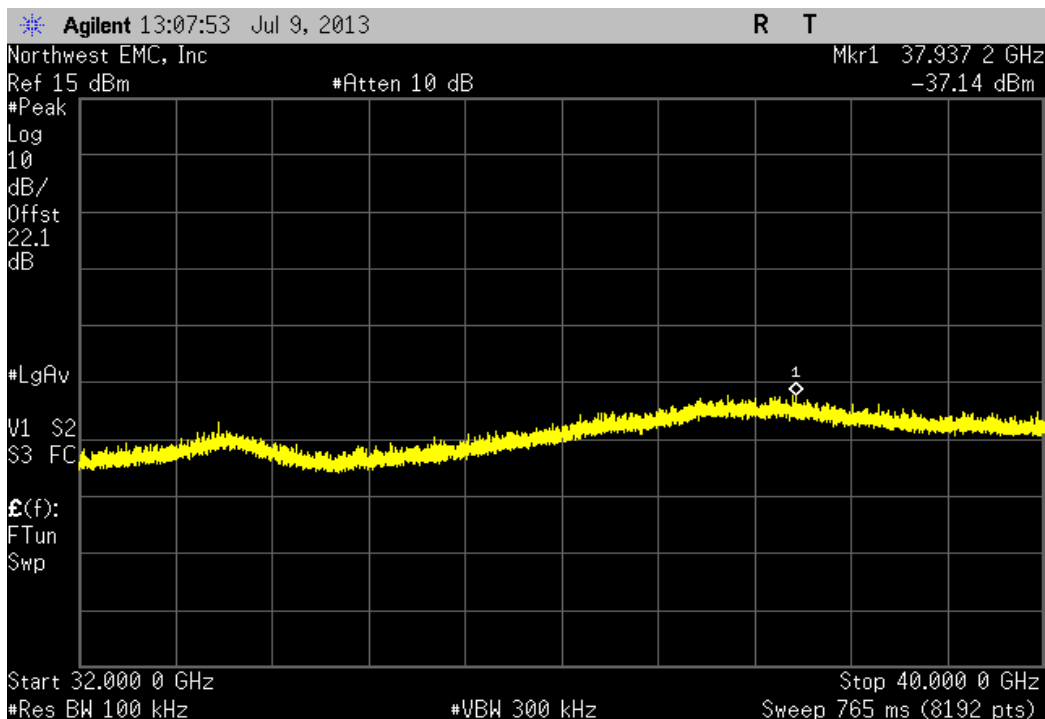
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-45.95 dBc	≤ -20 dBc	Pass



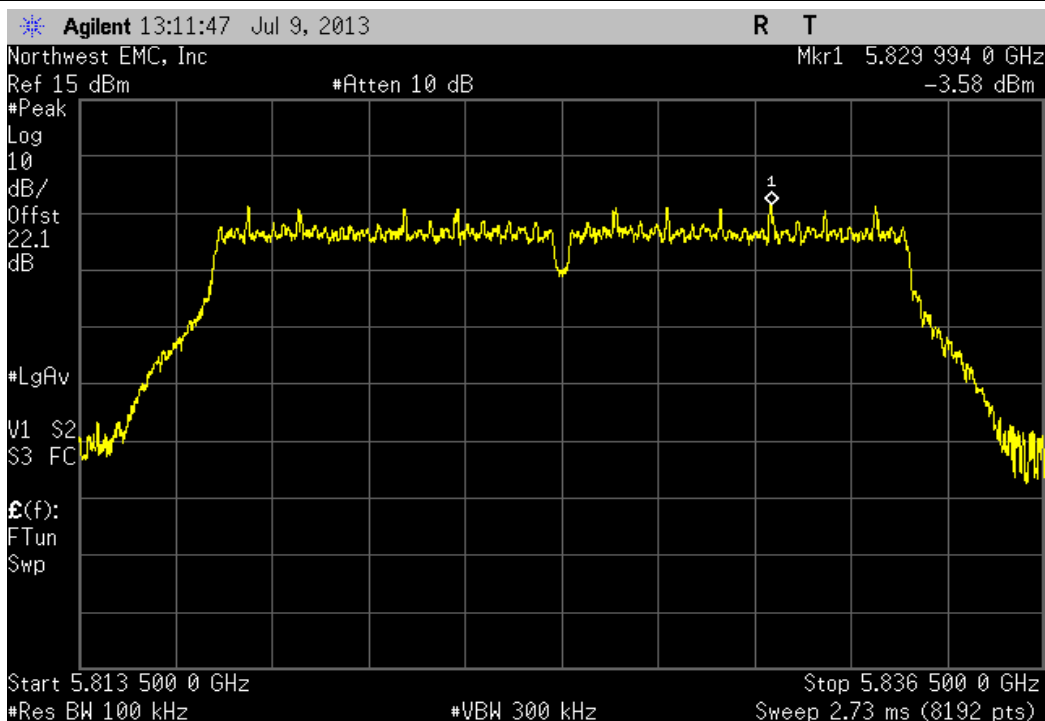
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-43.27 dBc	≤ -20 dBc	Pass



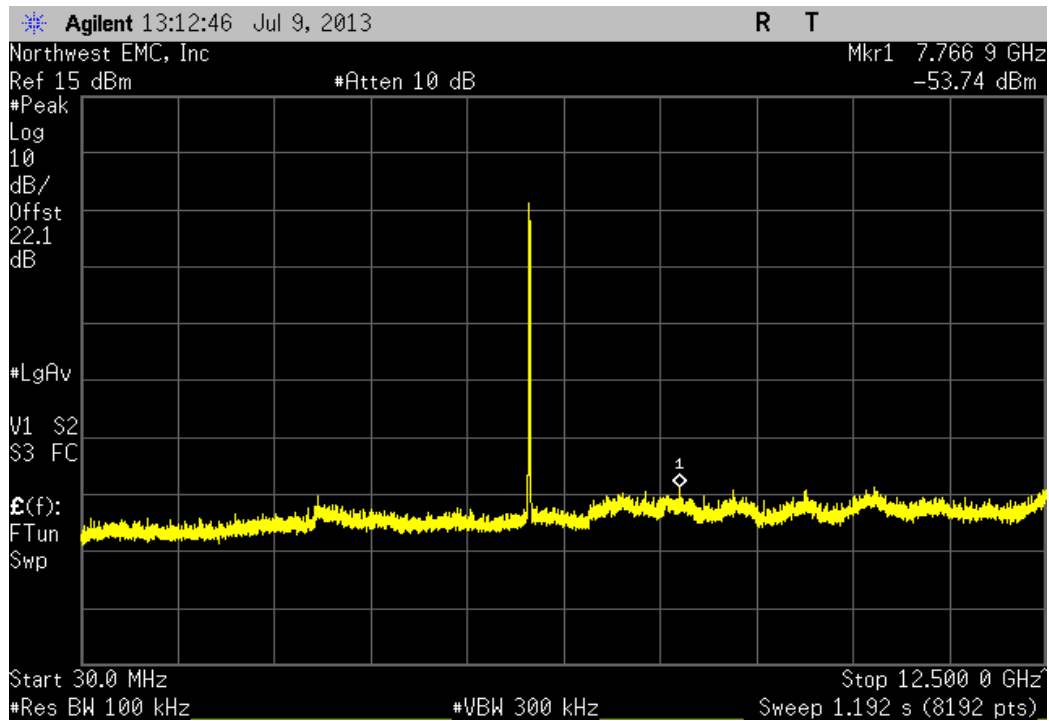
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz			
Frequency Range		Value	Limit
32 GHz - 40 GHz		-34.24 dBc	≤ -20 dBc
			Pass



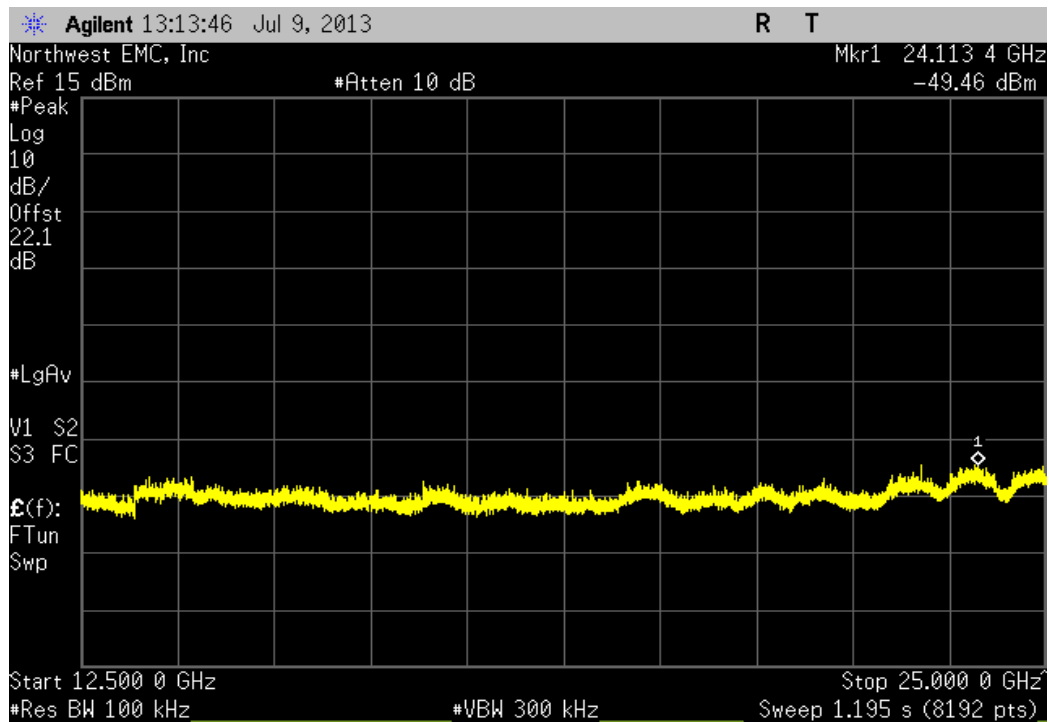
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz			
Frequency Range		Value	Limit
Fundamental		N/A	N/A
			N/A



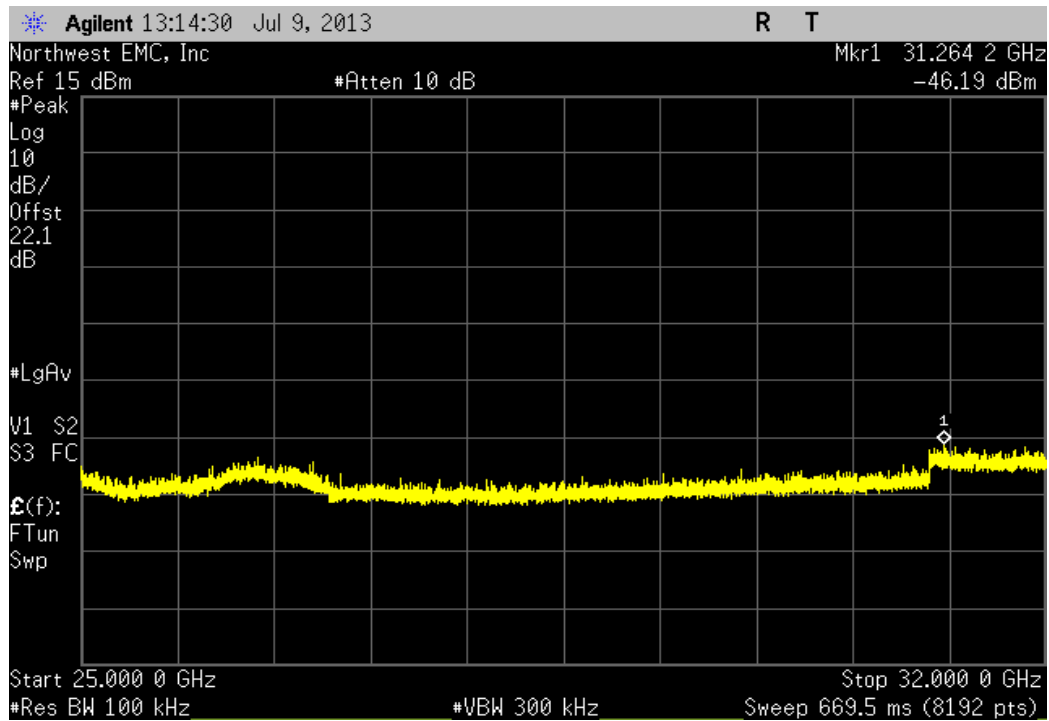
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.16 dBc	≤ -20 dBc	Pass	



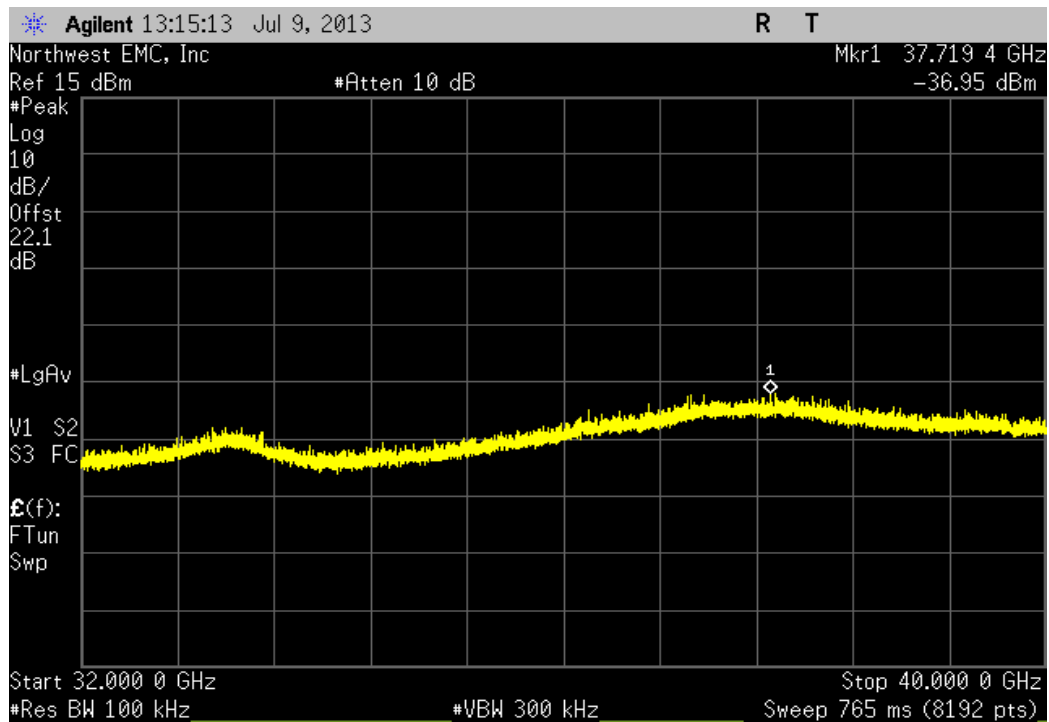
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.88 dBc	≤ -20 dBc	Pass	



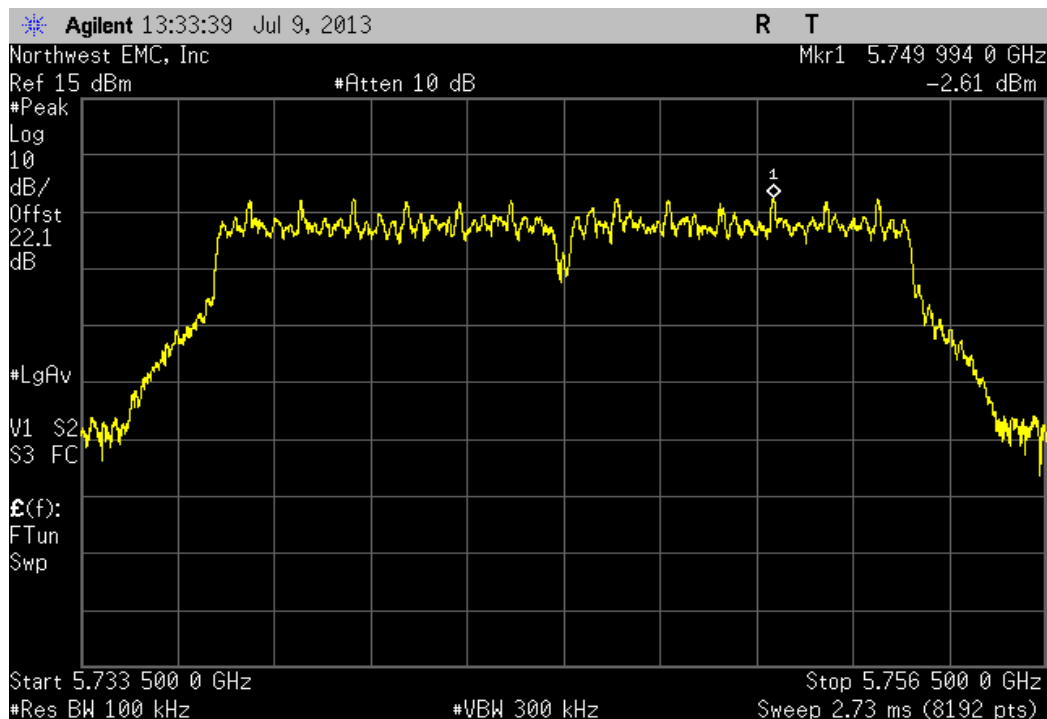
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-42.61 dBc	≤ -20 dBc	Pass



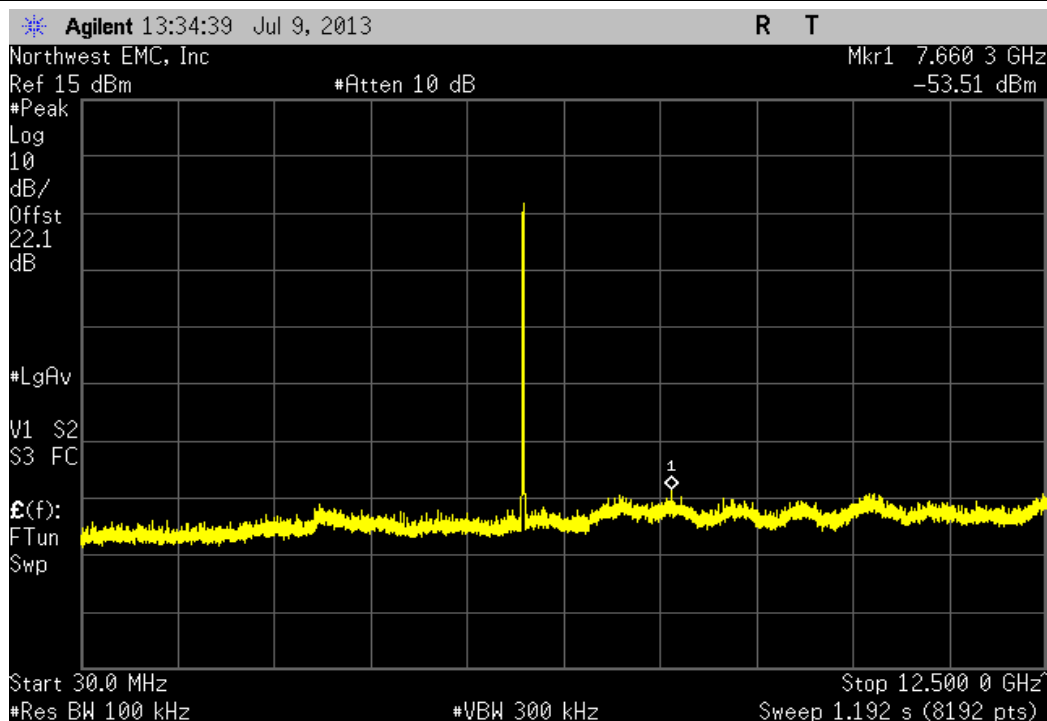
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.37 dBc	≤ -20 dBc	Pass



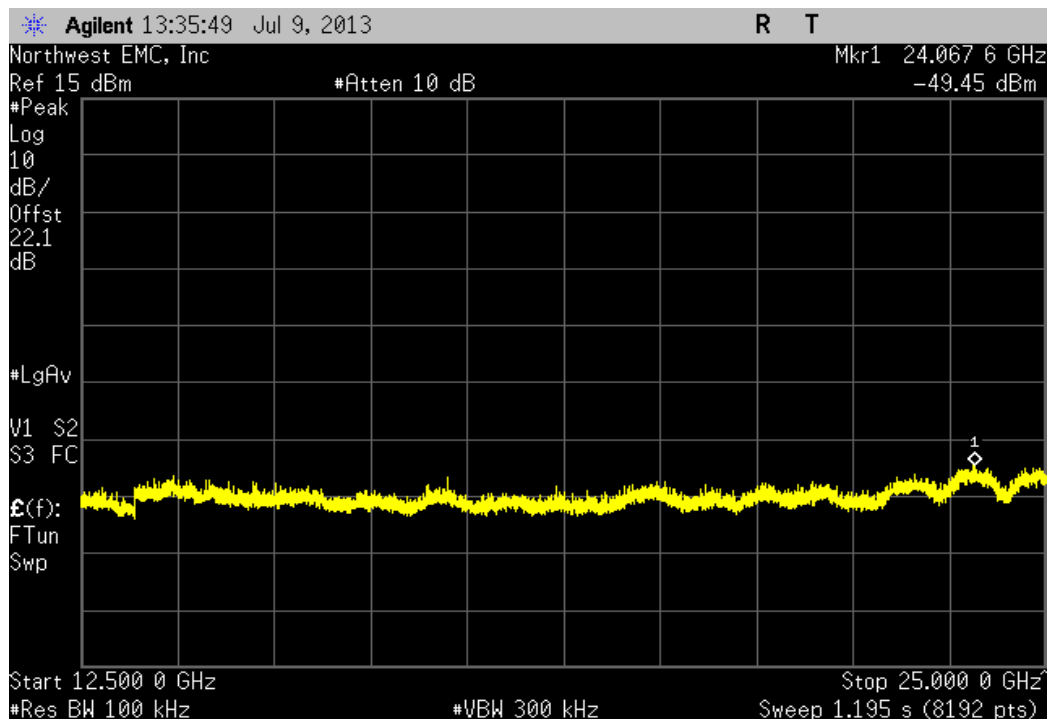
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



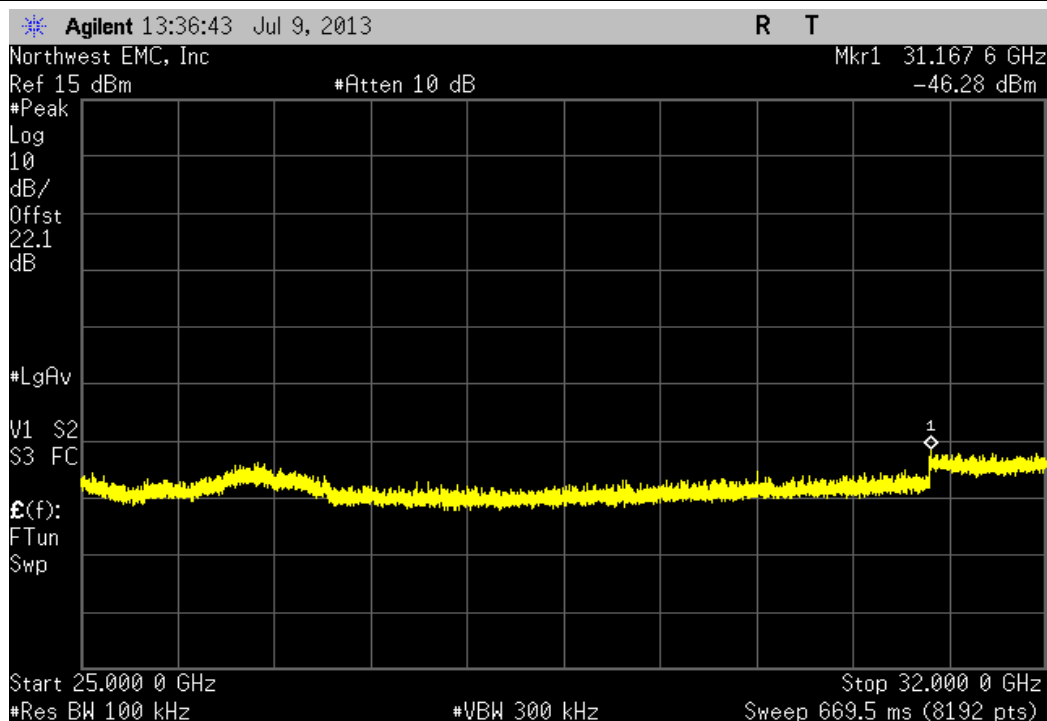
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-50.9 dBc	≤ -20 dBc	Pass



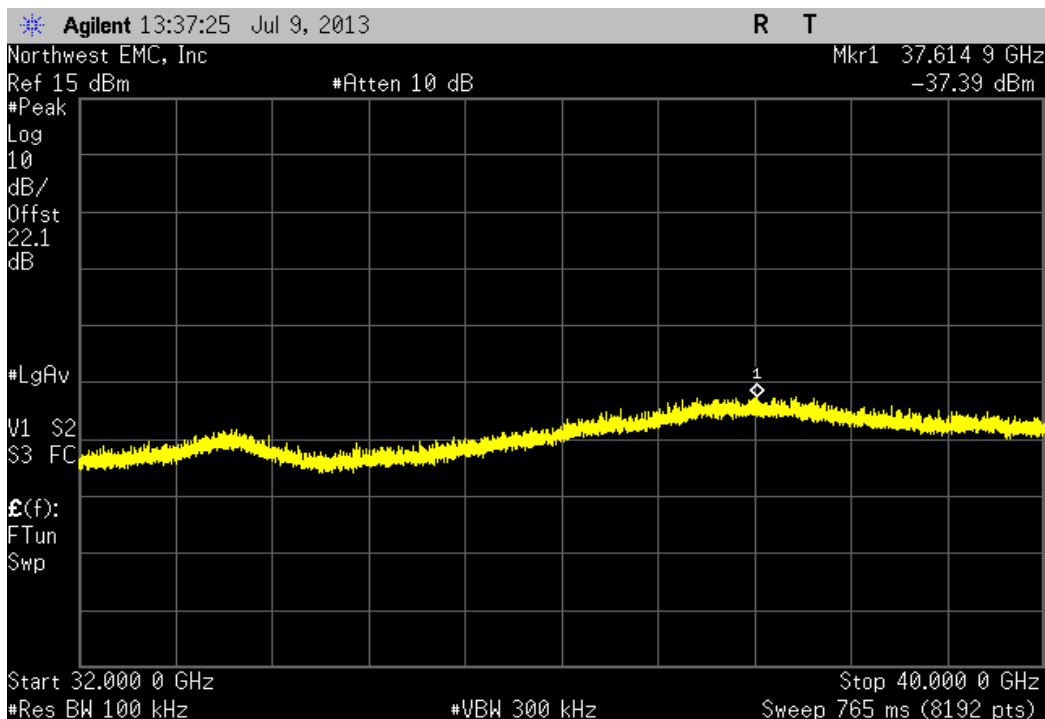
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.84 dBc	≤ -20 dBc	Pass	



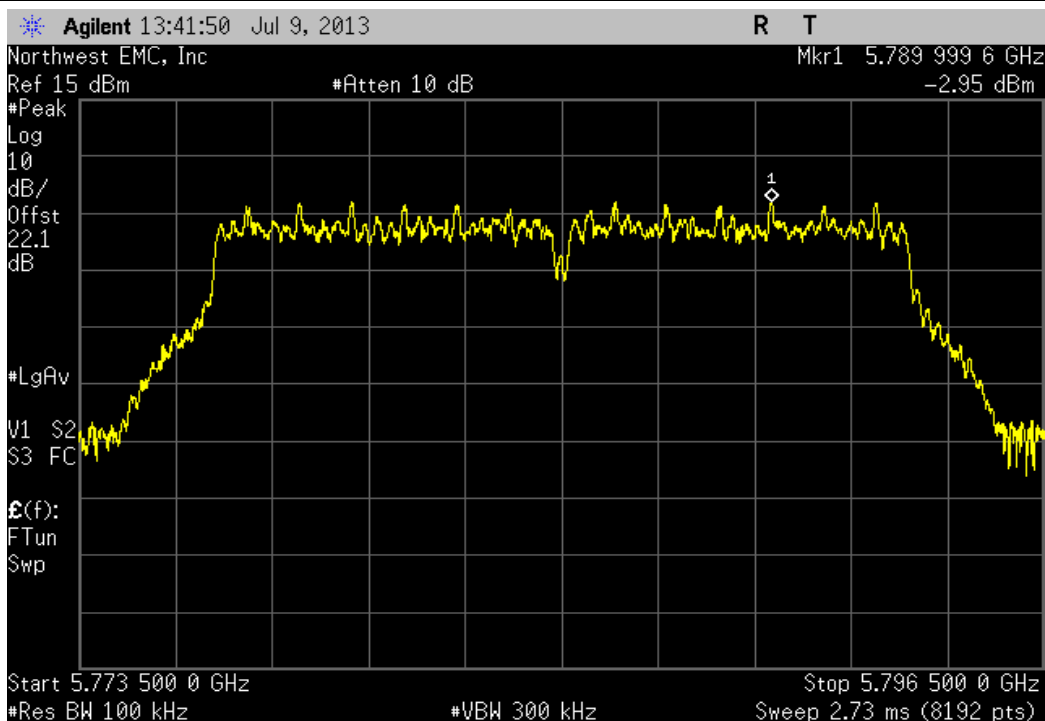
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43.67 dBc	≤ -20 dBc	Pass	



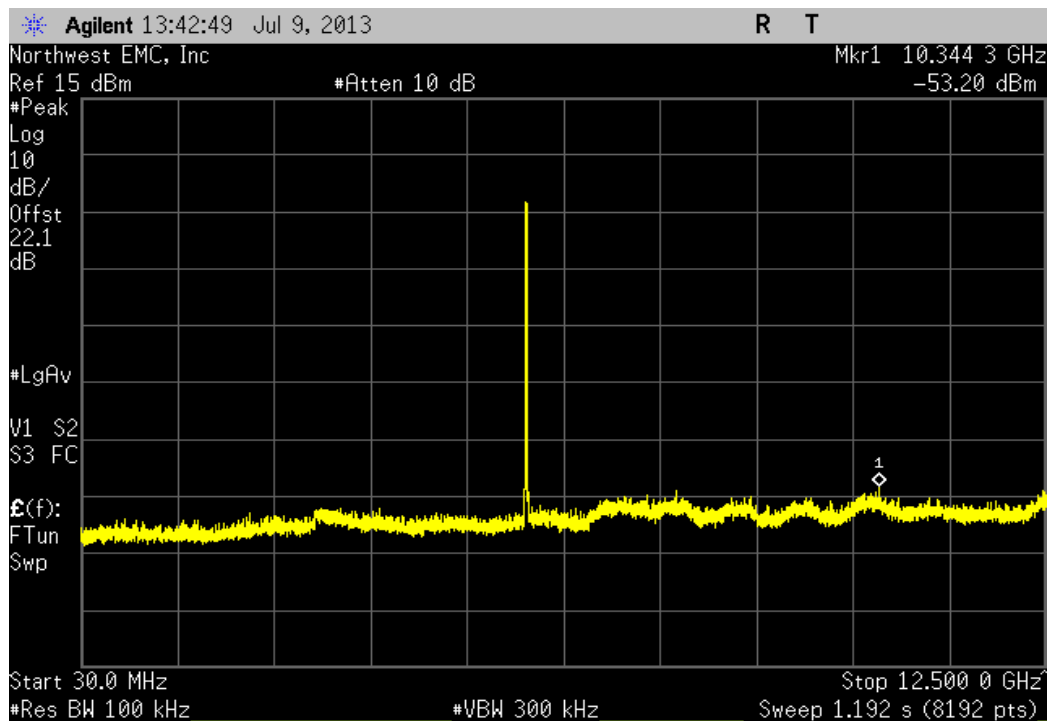
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.78 dBc	≤ -20 dBc	Pass



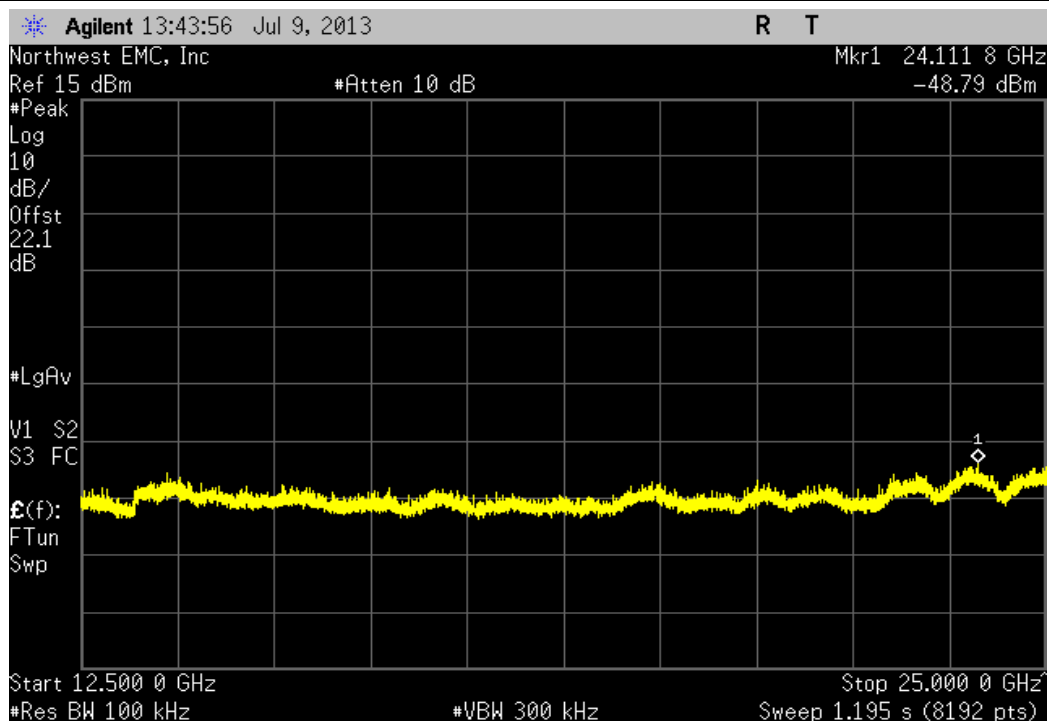
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



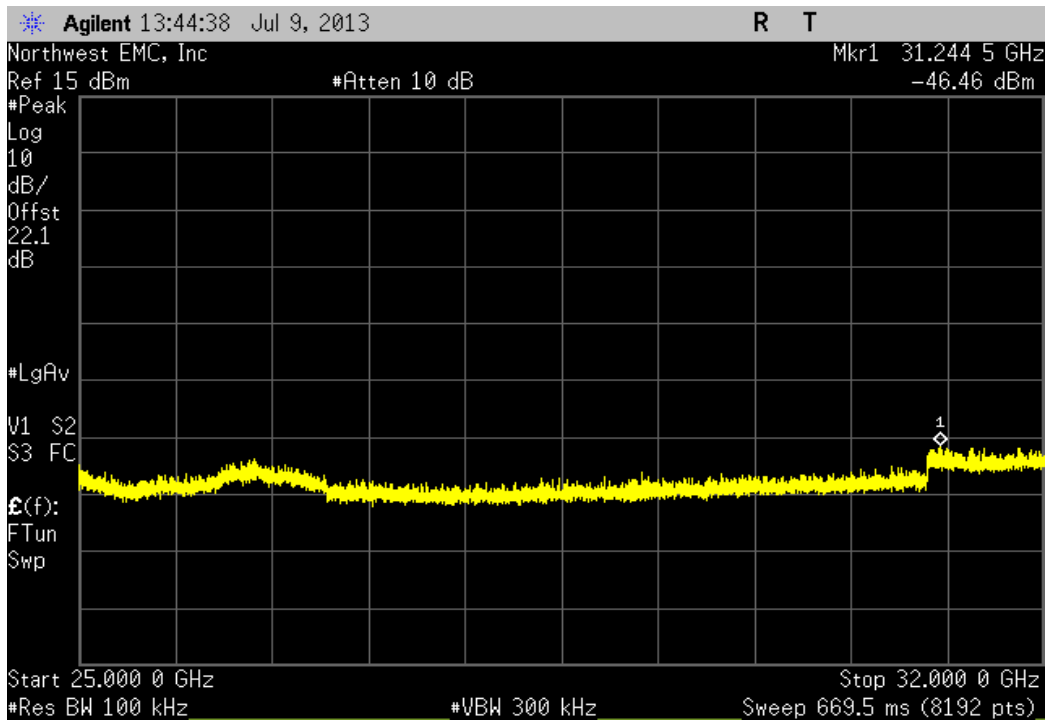
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.25 dBc	≤ -20 dBc	Pass	



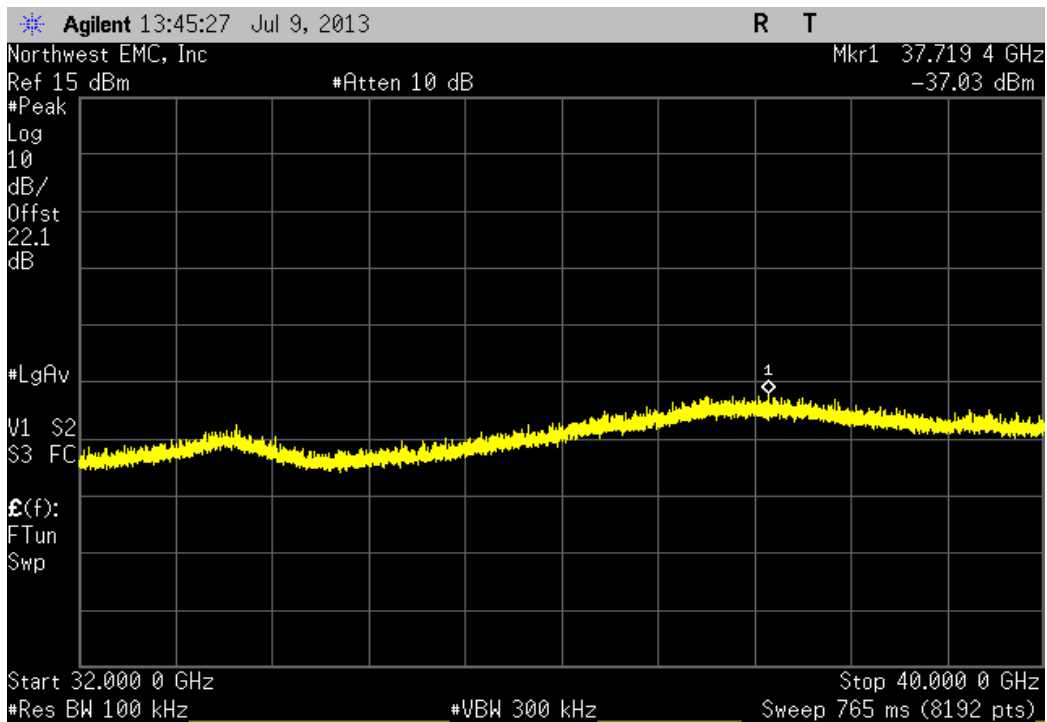
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.84 dBc	≤ -20 dBc	Pass	



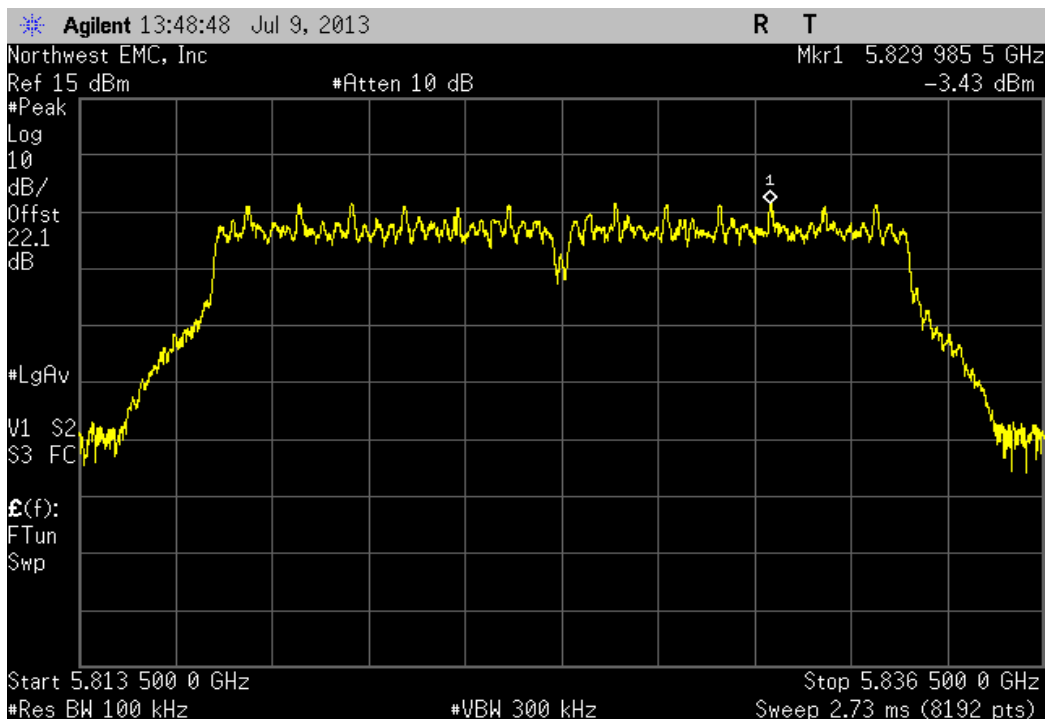
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-43.51 dBc	≤ -20 dBc	Pass



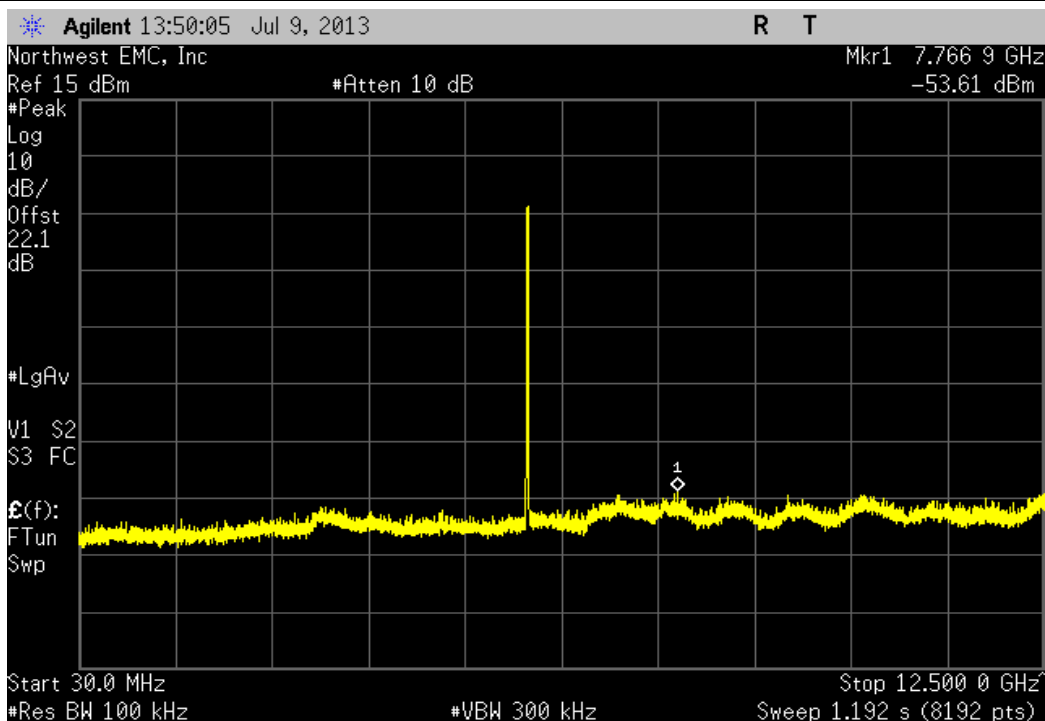
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.08 dBc	≤ -20 dBc	Pass



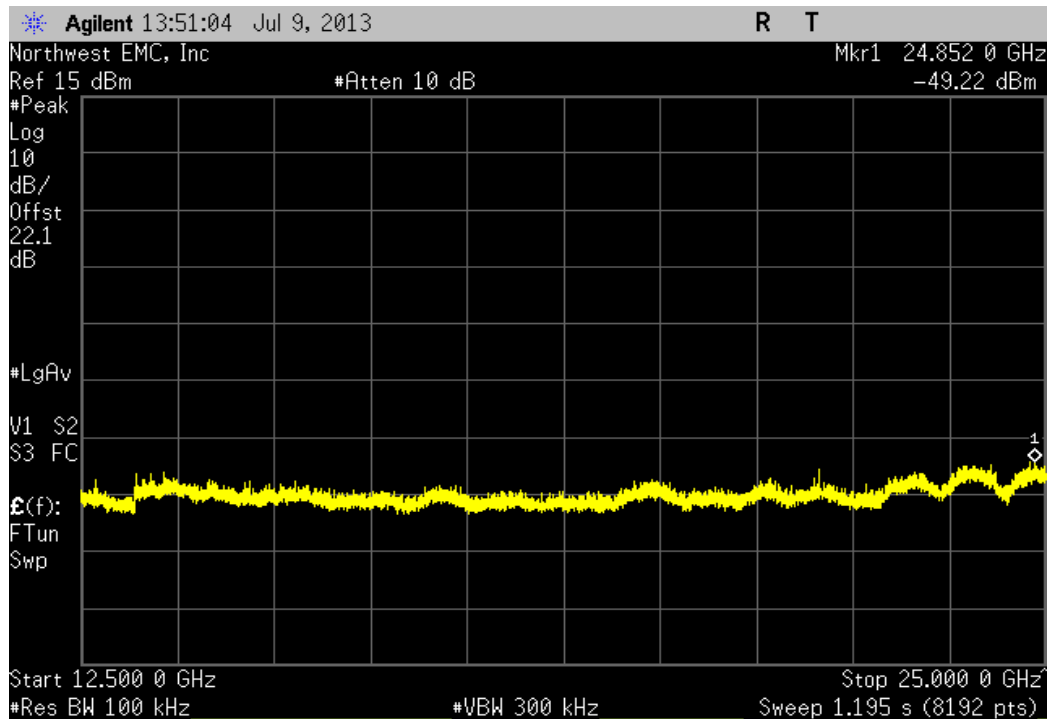
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



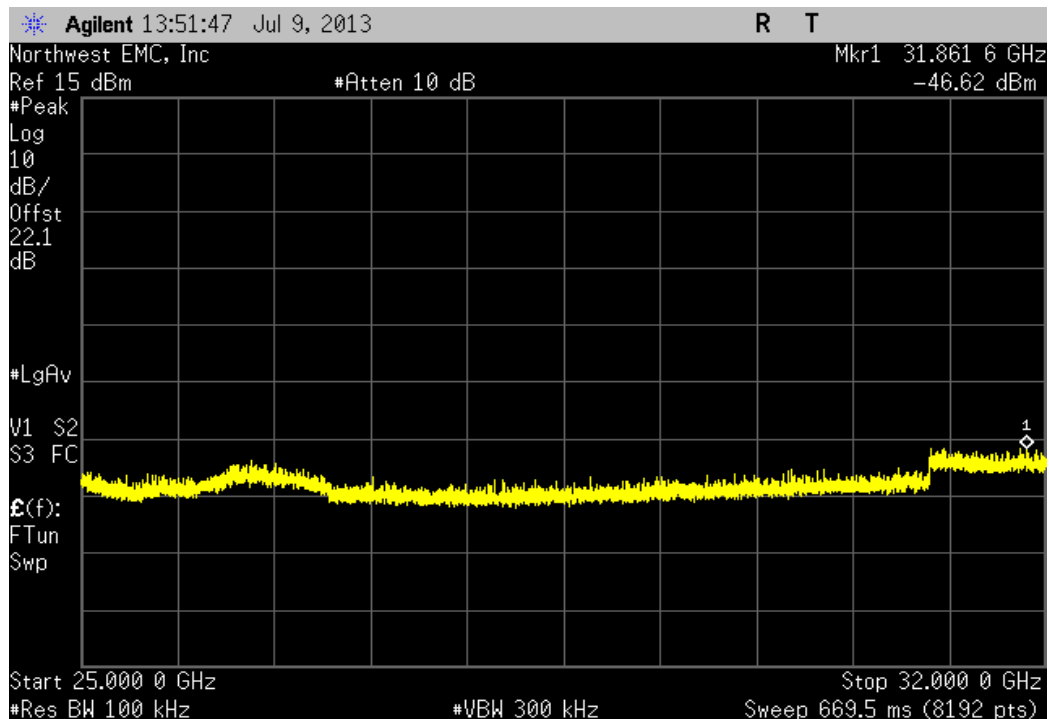
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-50.18 dBc	≤ -20 dBc	Pass



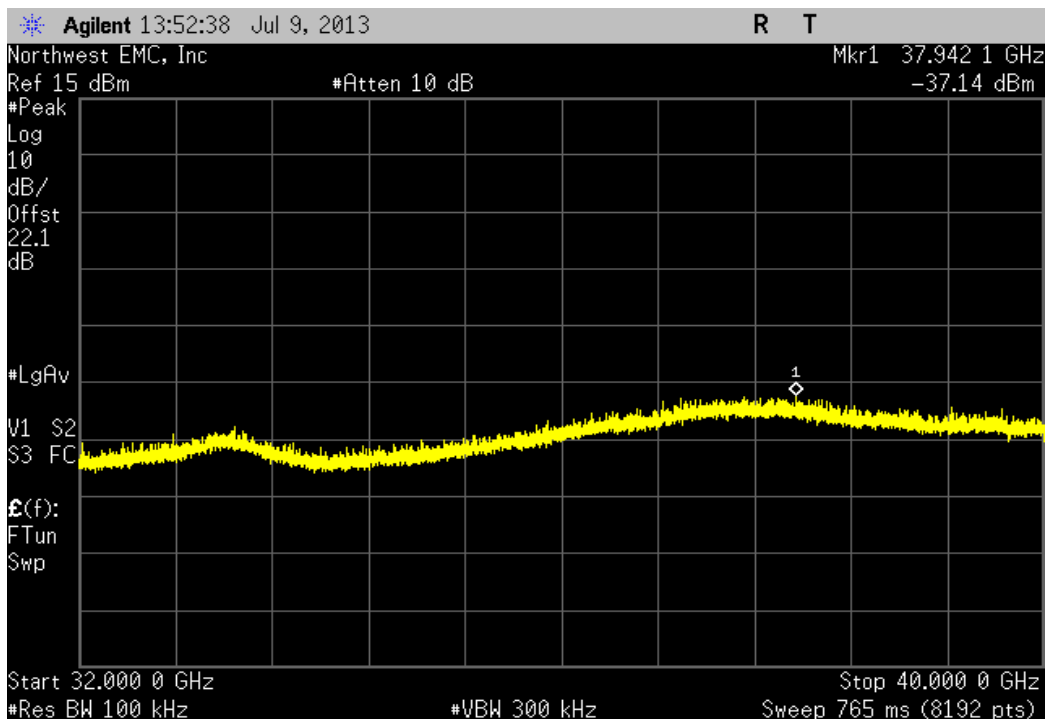
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.78 dBc	≤ -20 dBc	Pass	



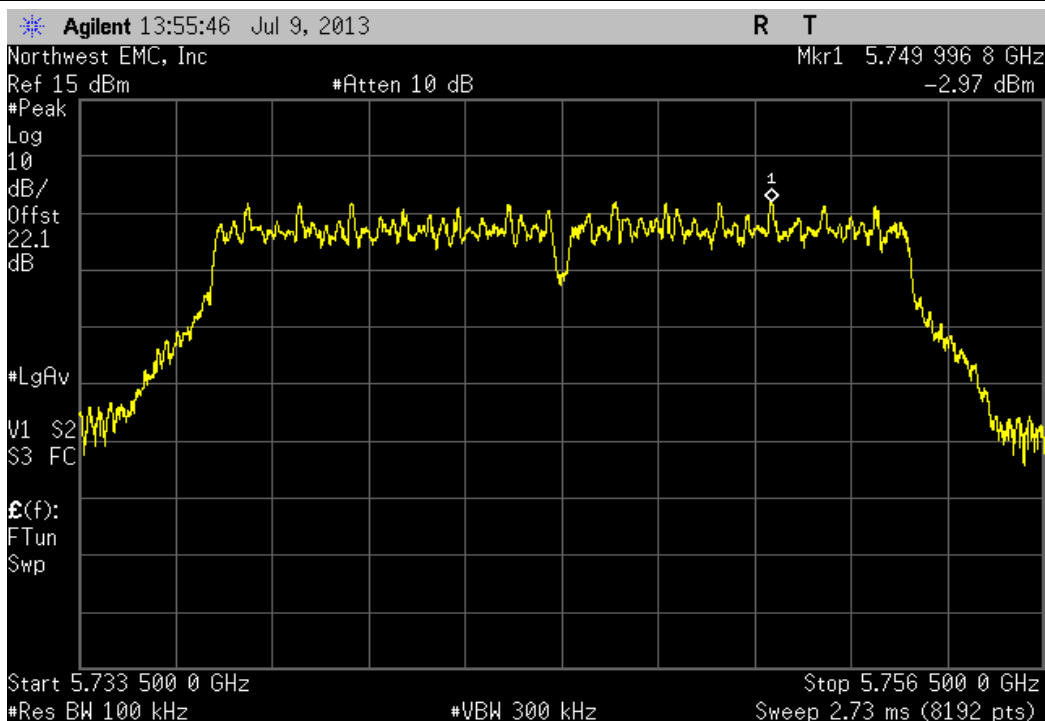
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43.19 dBc	≤ -20 dBc	Pass	



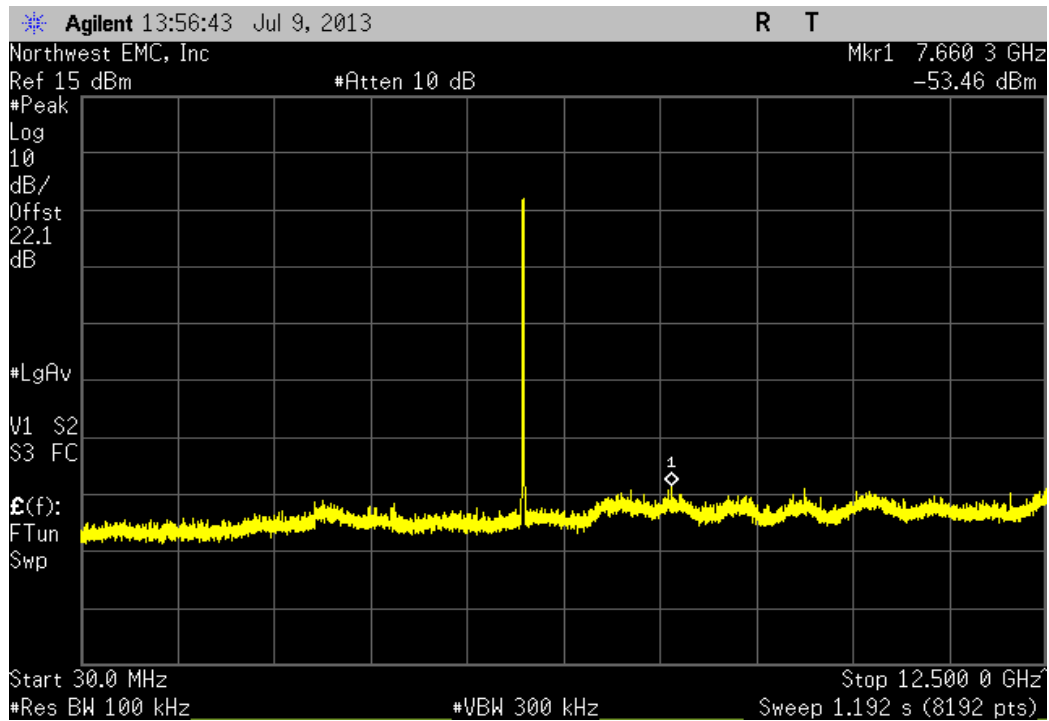
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.71 dBc	≤ -20 dBc	Pass



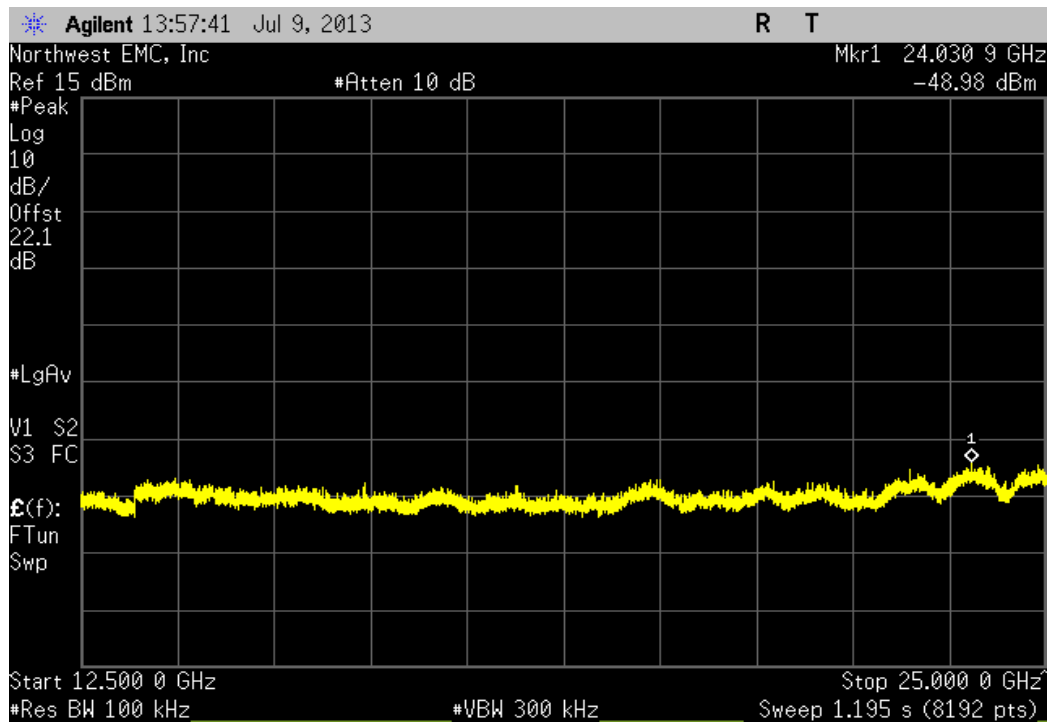
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



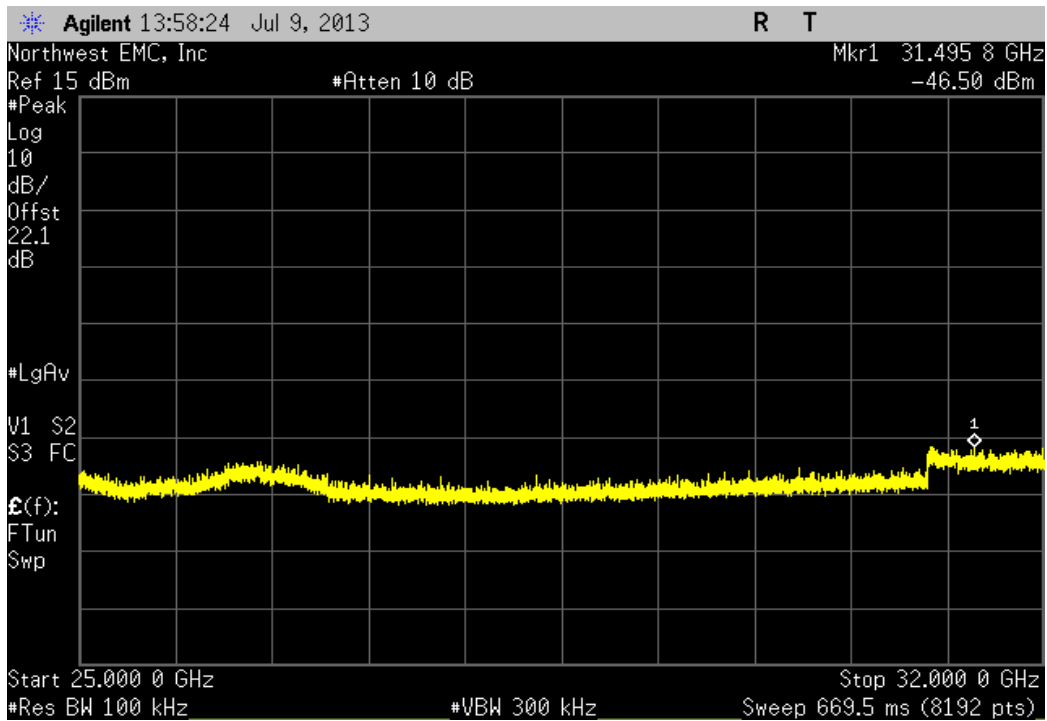
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.49 dBc	≤ -20 dBc	Pass	



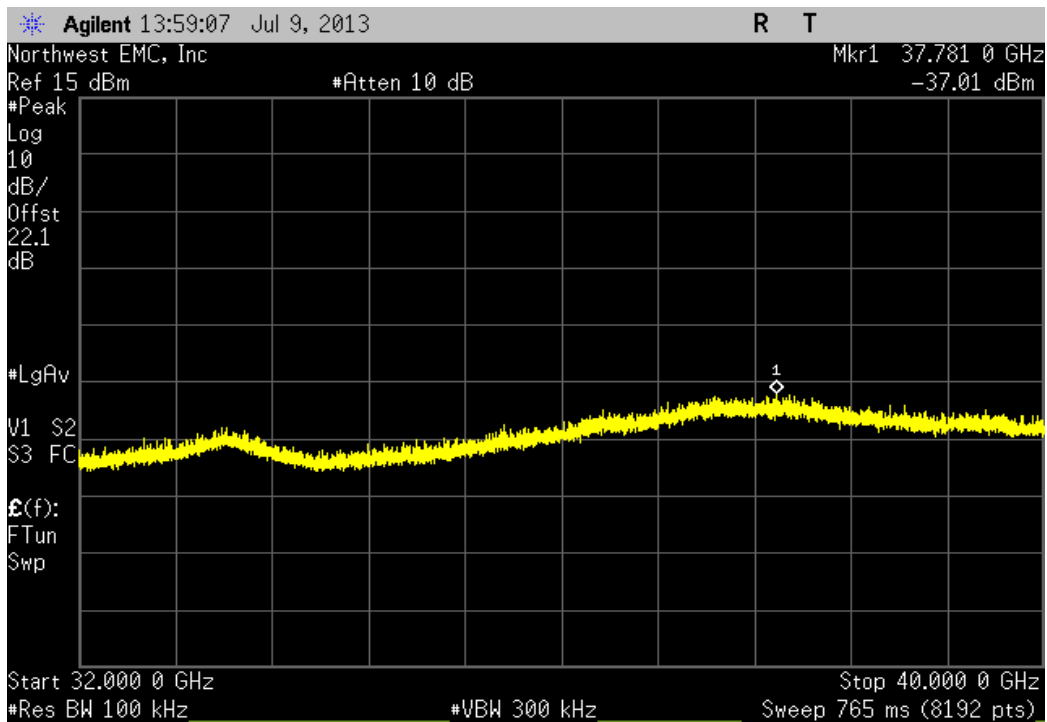
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.01 dBc	≤ -20 dBc	Pass	



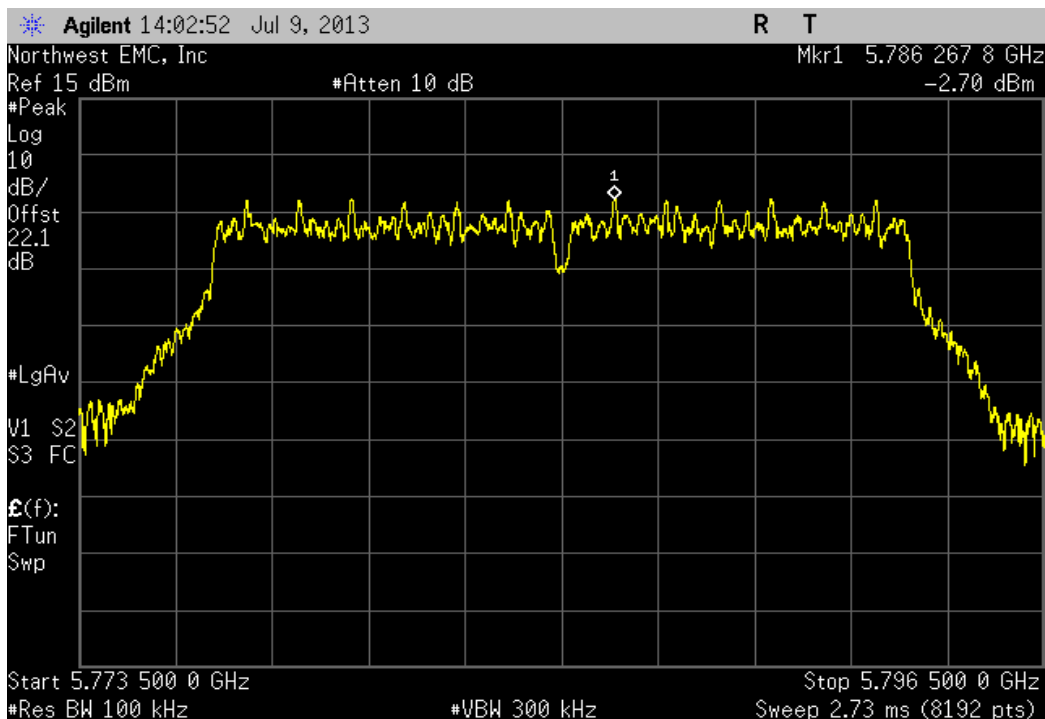
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-43.53 dBc	≤ -20 dBc	Pass



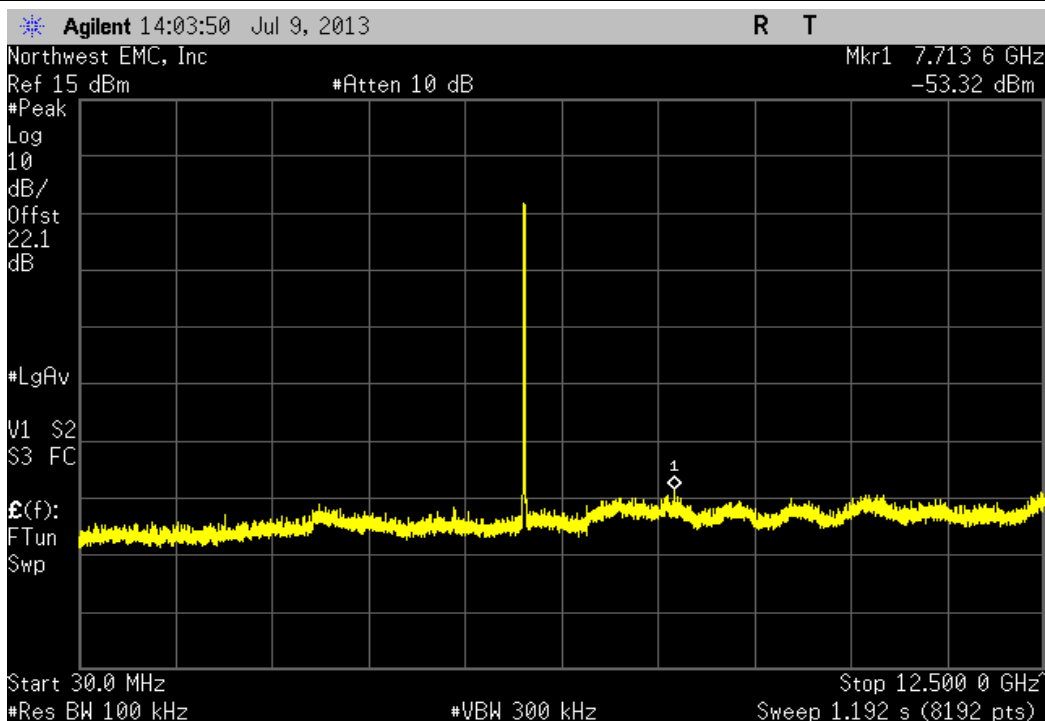
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.04 dBc	≤ -20 dBc	Pass



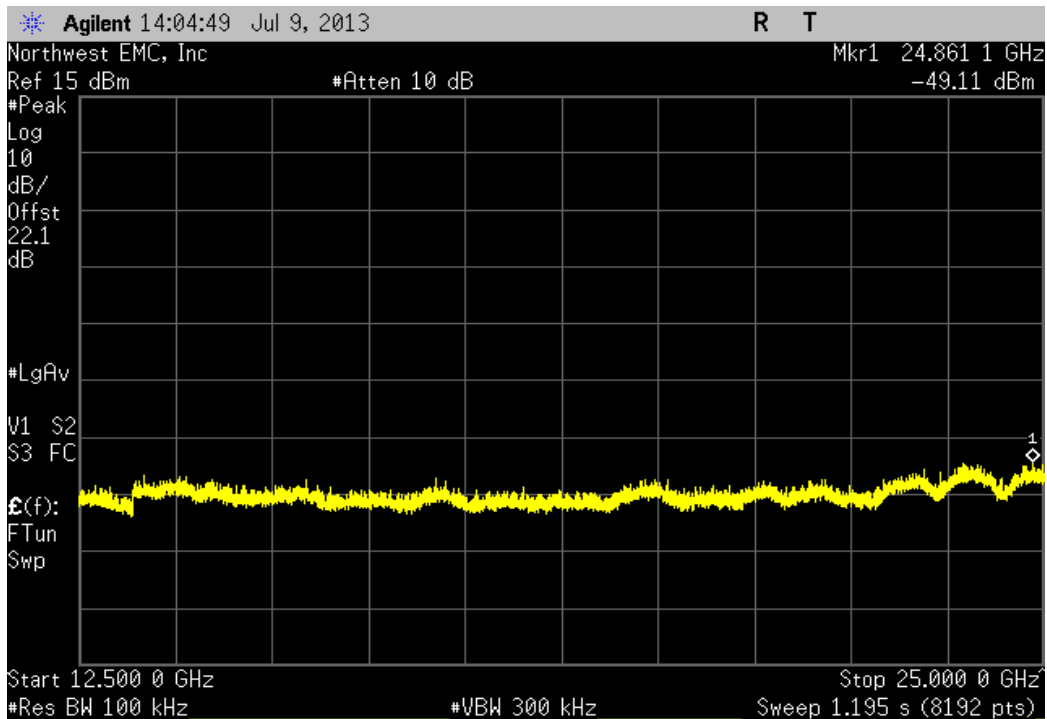
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



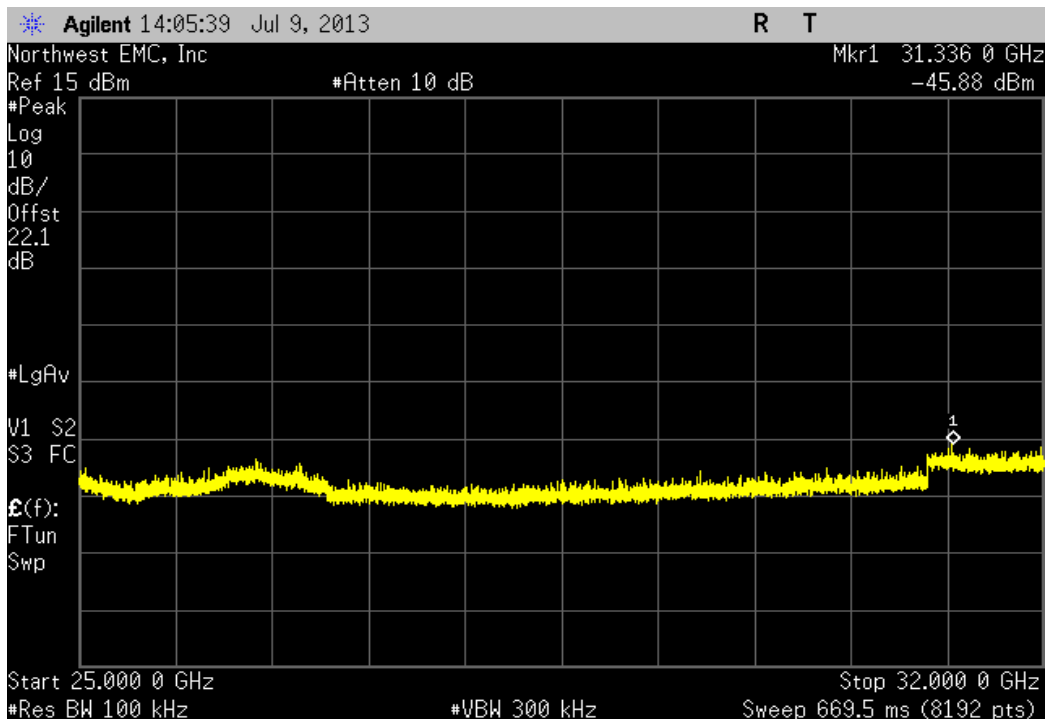
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-50.62 dBc	≤ -20 dBc	Pass



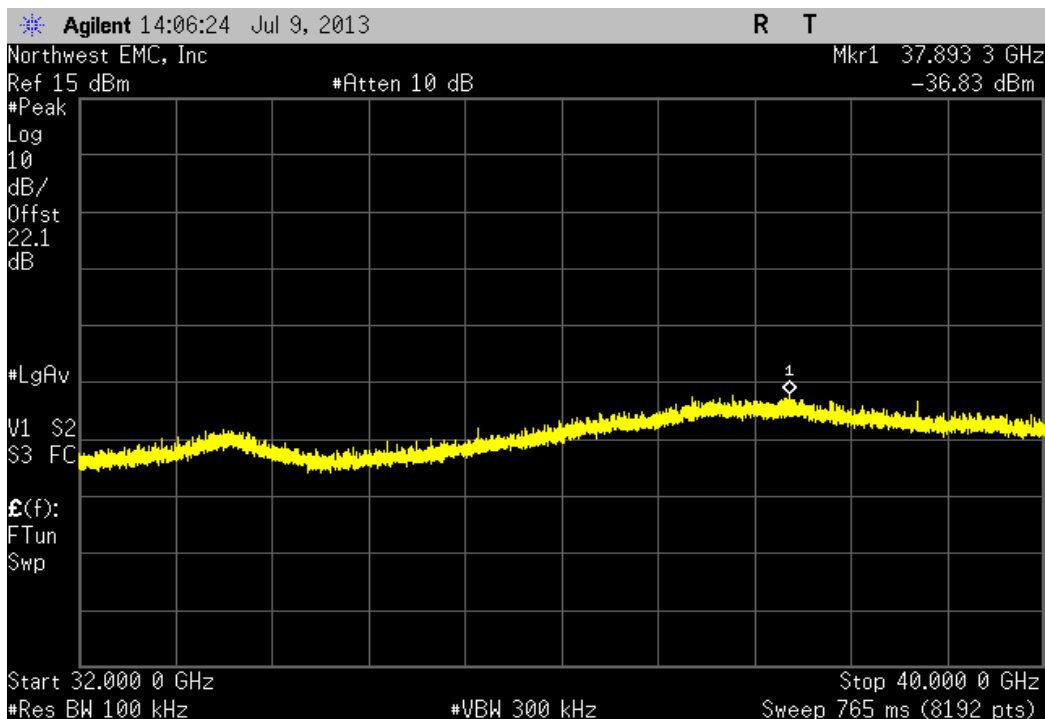
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.41 dBc	≤ -20 dBc	Pass	



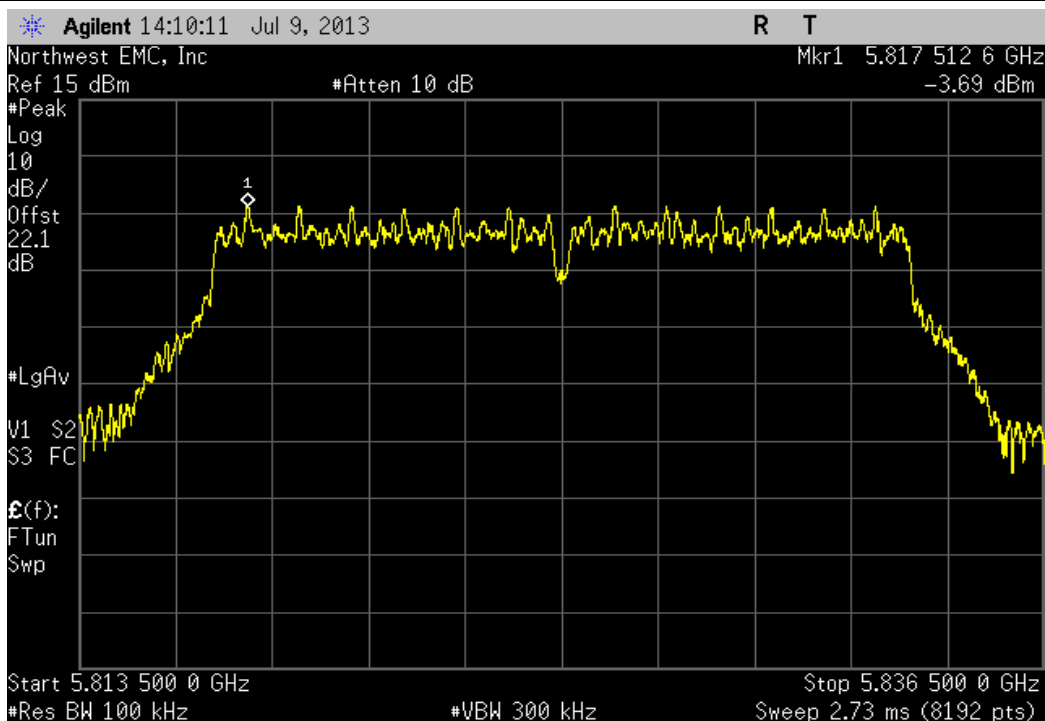
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43.18 dBc	≤ -20 dBc	Pass	



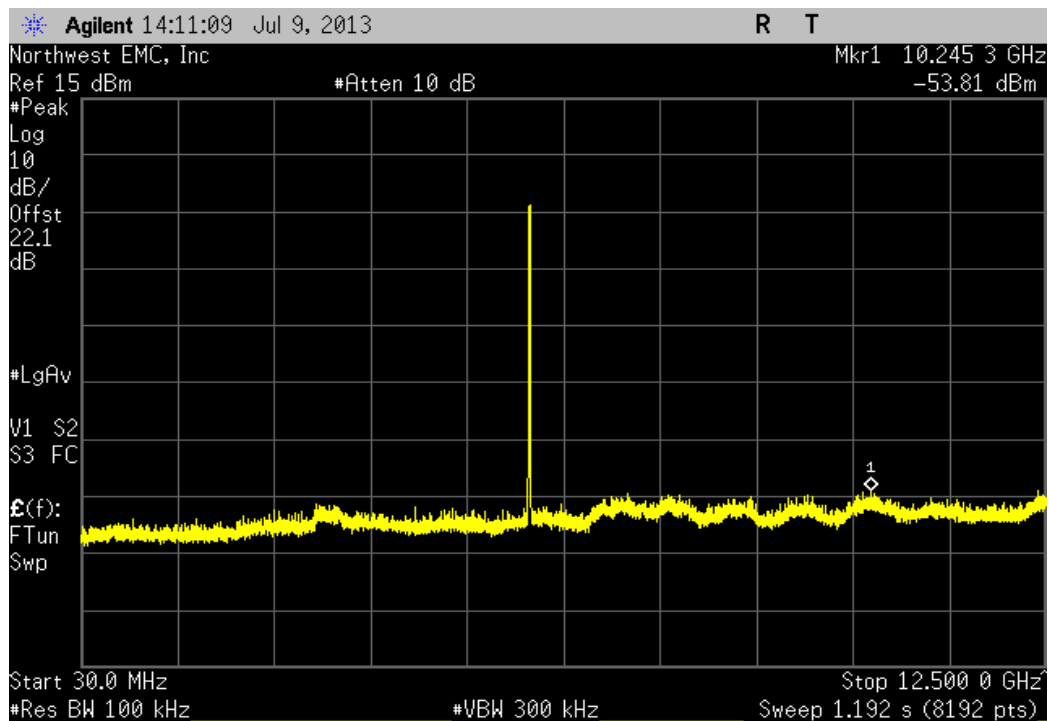
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-34.14 dBc	≤ -20 dBc	Pass



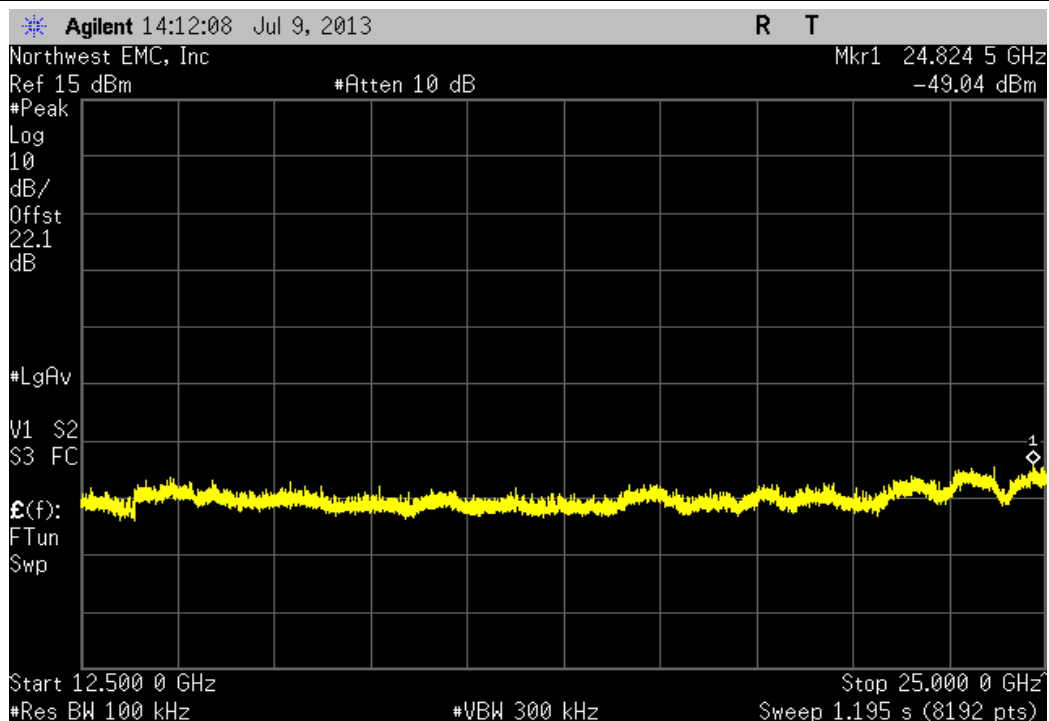
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



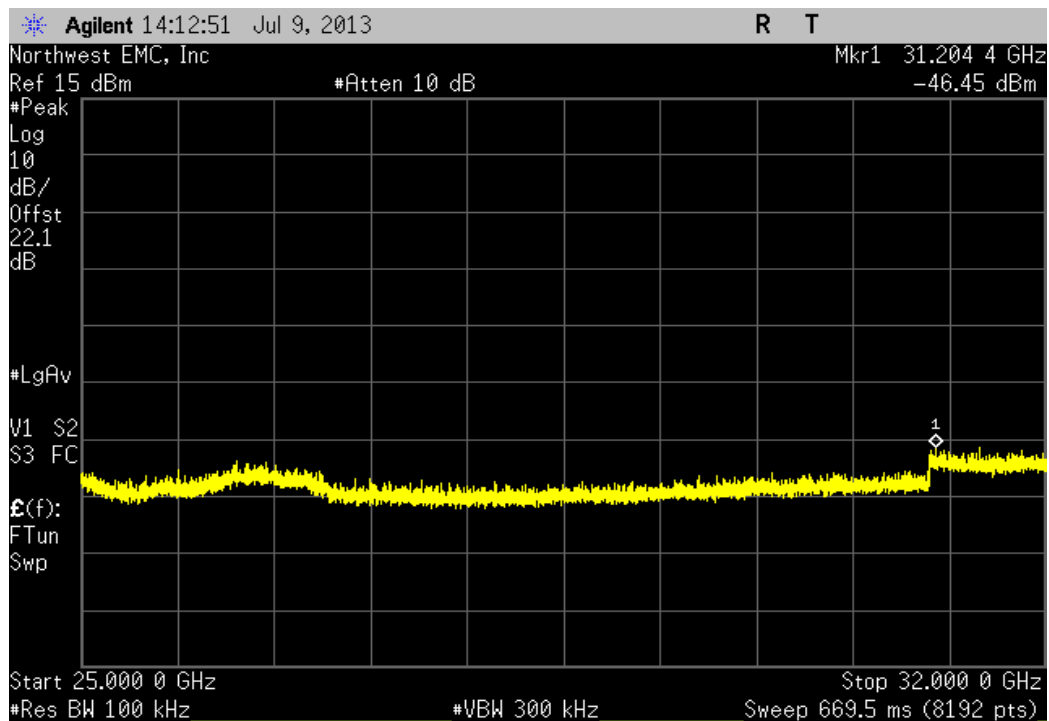
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.12 dBc	≤ -20 dBc	Pass	



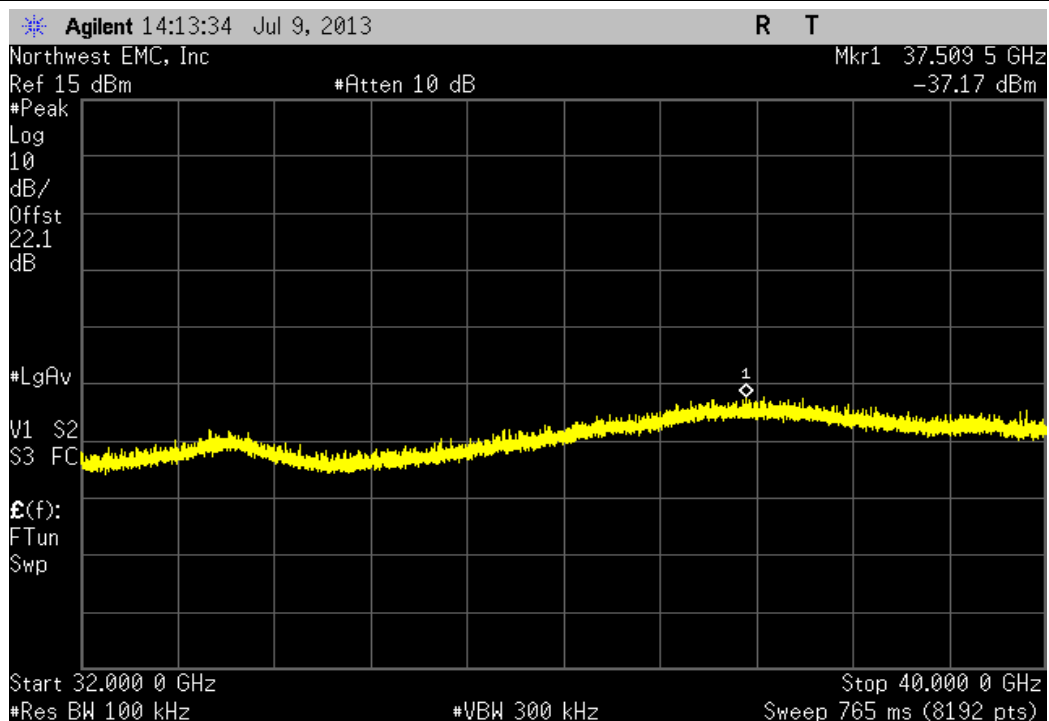
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.35 dBc	≤ -20 dBc	Pass	



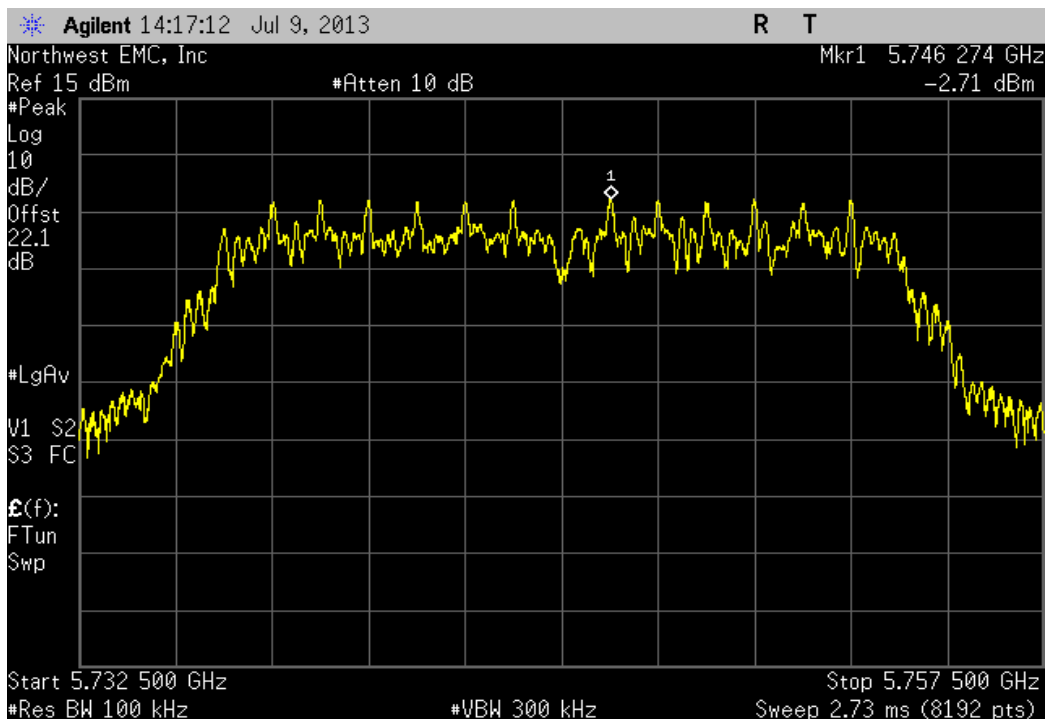
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-42.76 dBc	≤ -20 dBc	Pass



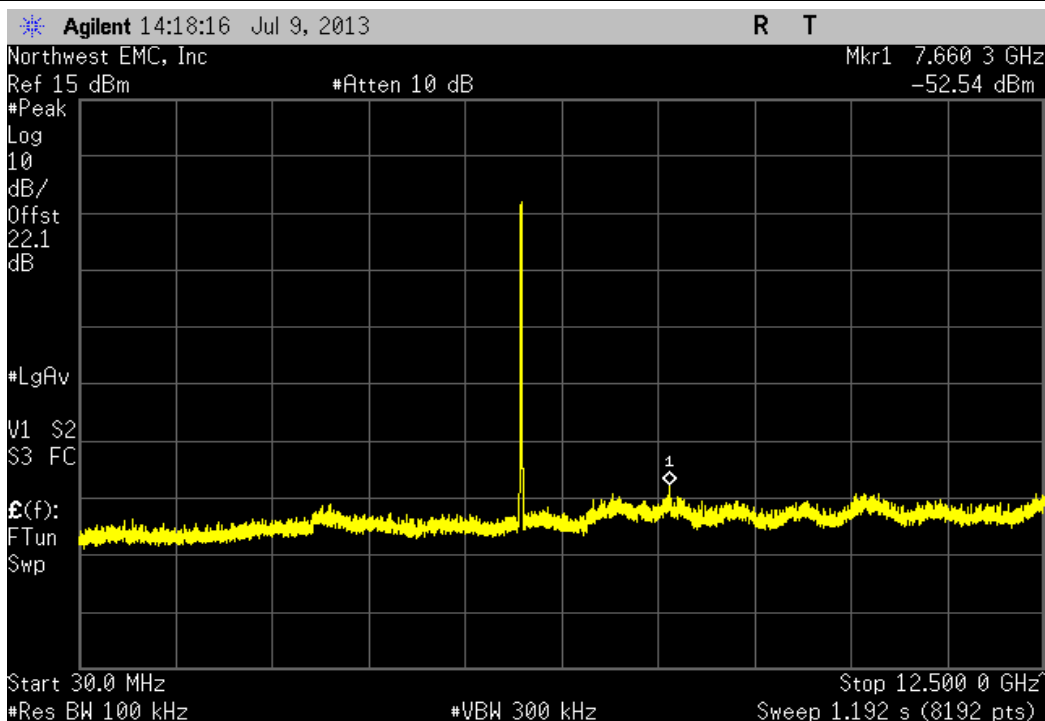
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.49 dBc	≤ -20 dBc	Pass



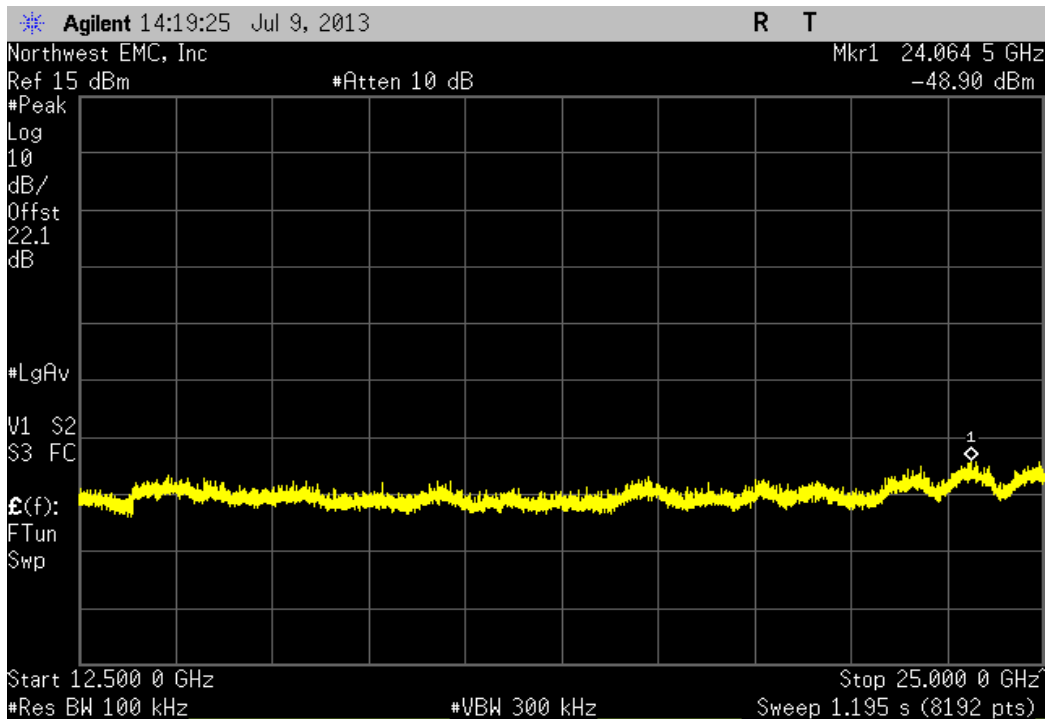
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



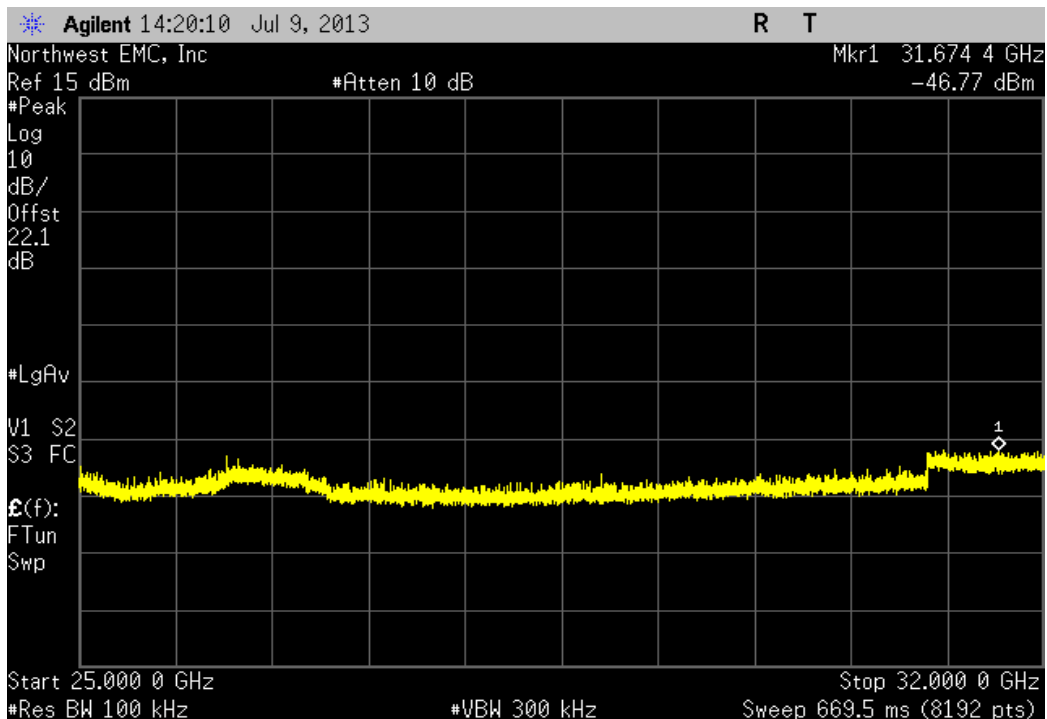
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-49.83 dBc	≤ -20 dBc	Pass



20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.2 dBc	≤ -20 dBc	Pass	

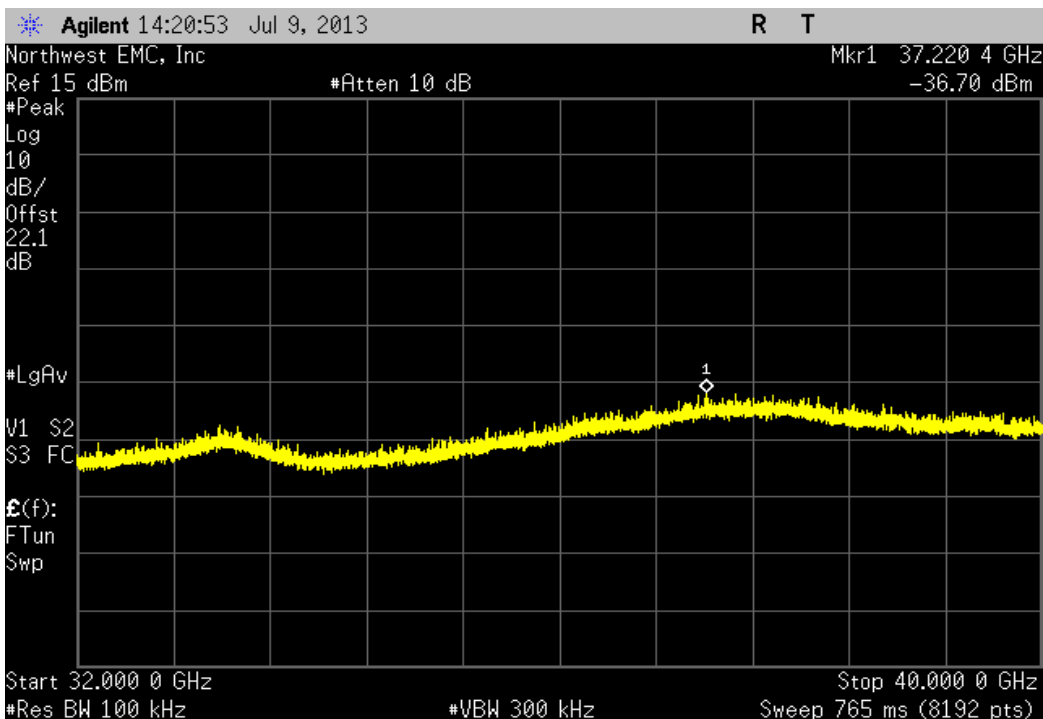


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-44.06 dBc	≤ -20 dBc	Pass	



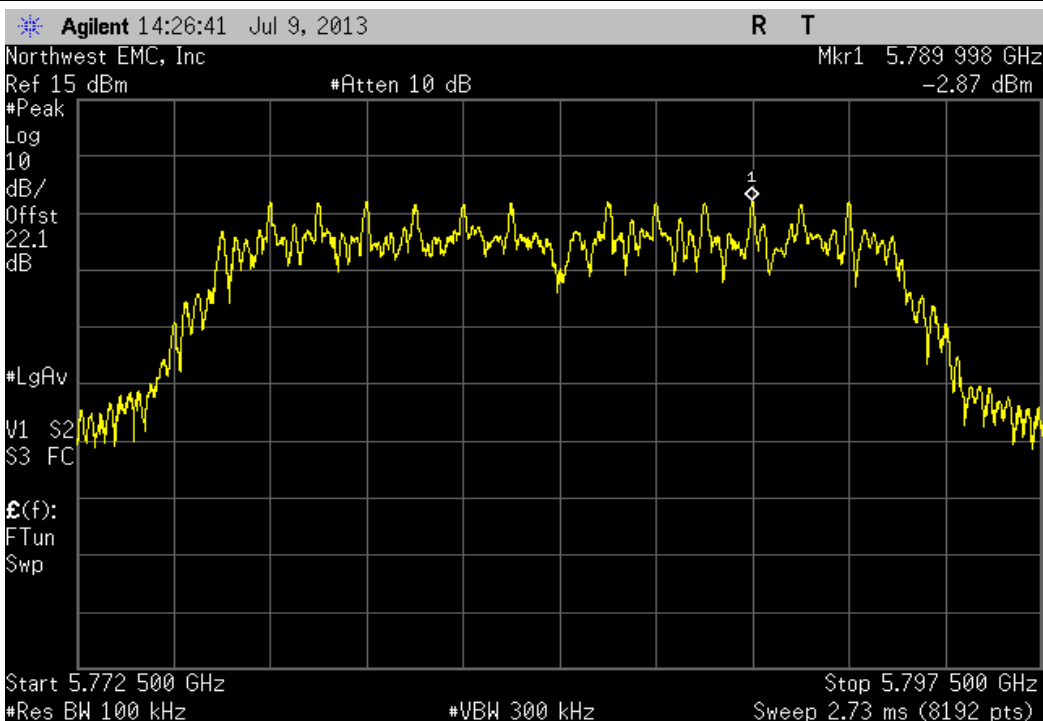
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-33.99 dBc	≤ -20 dBc	Pass

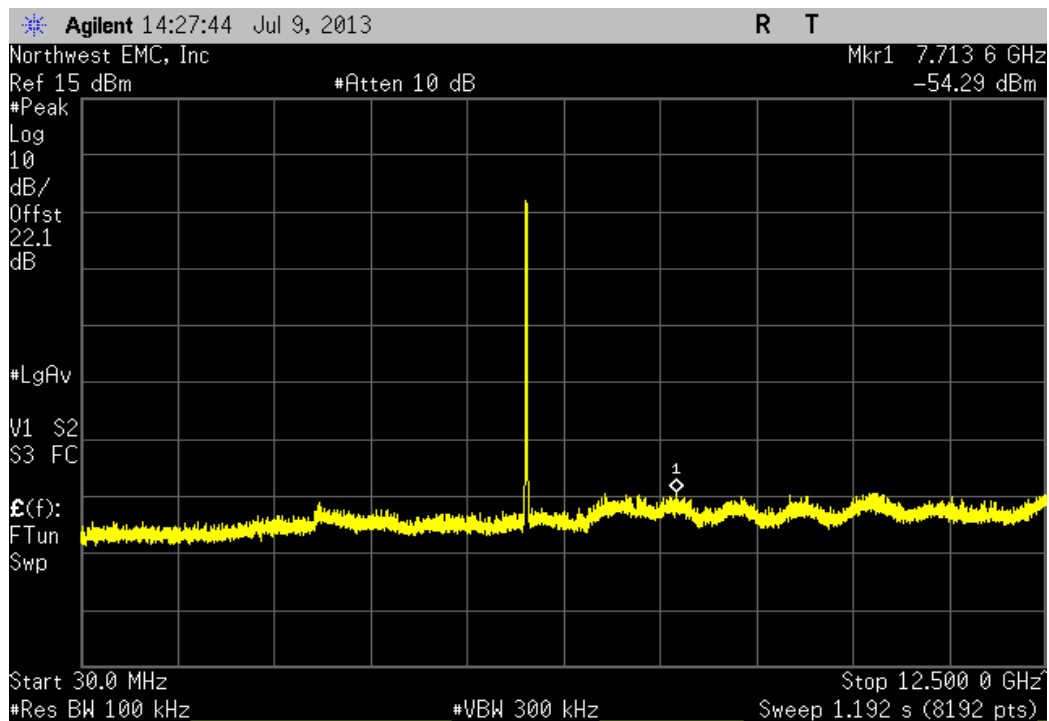


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz

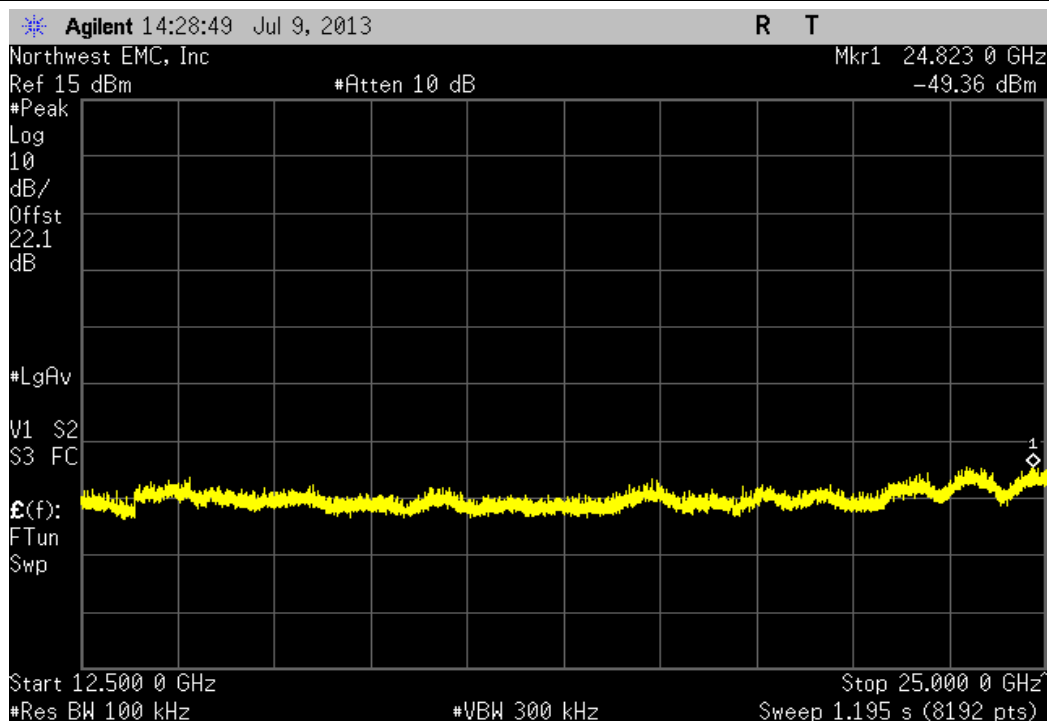
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



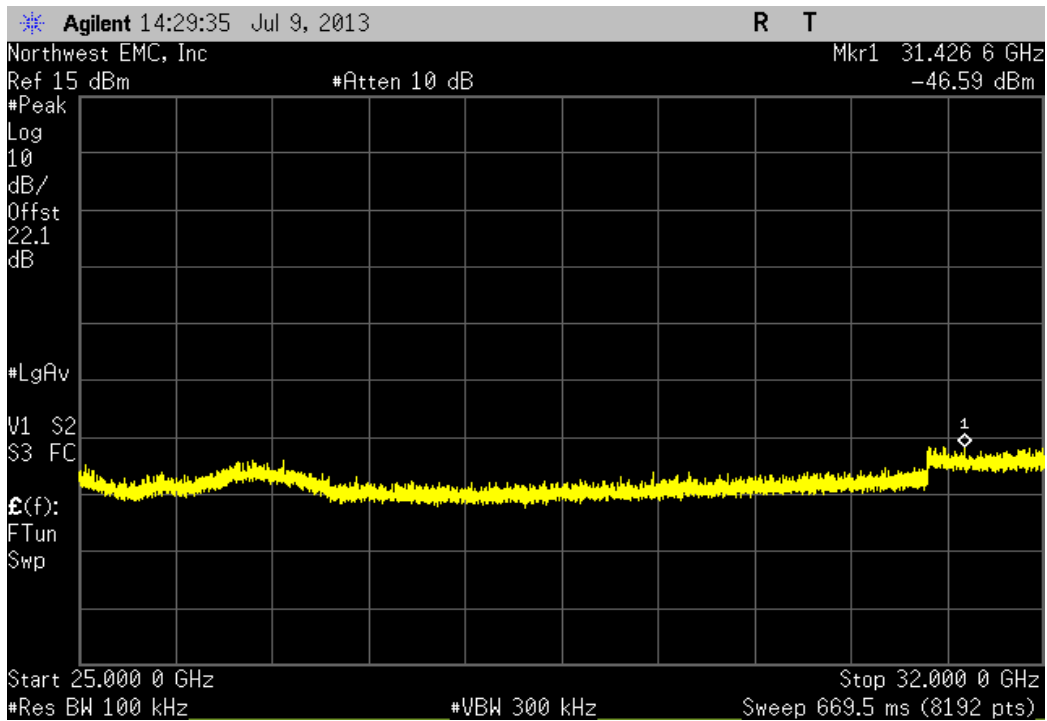
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-51.42 dBc	≤ -20 dBc	Pass	



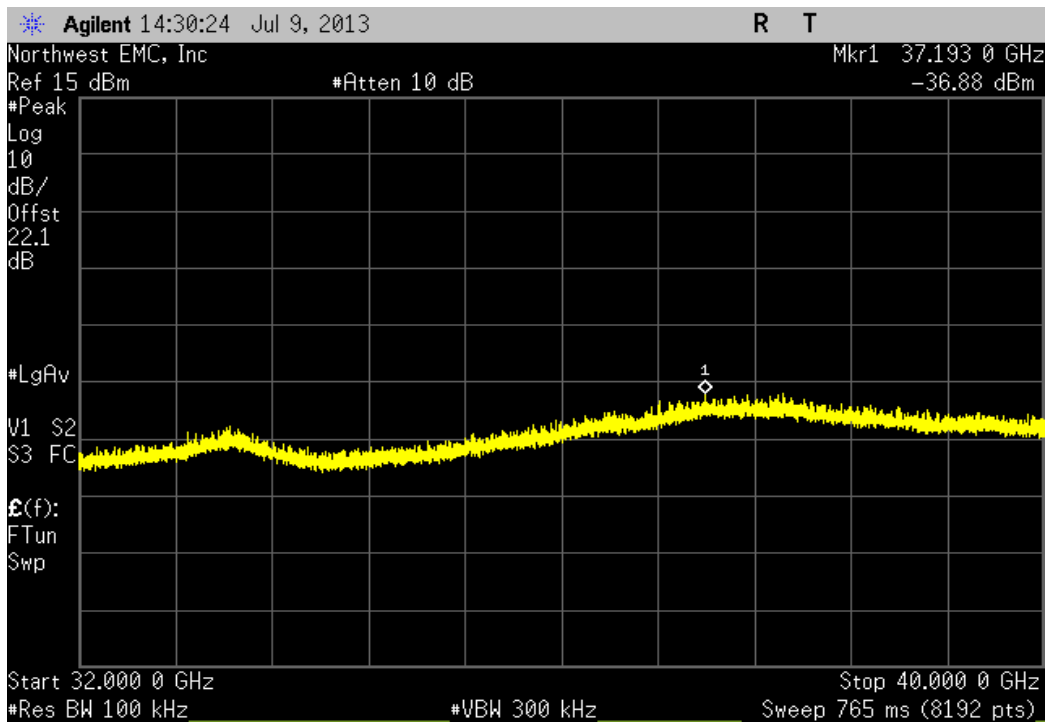
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.49 dBc	≤ -20 dBc	Pass	



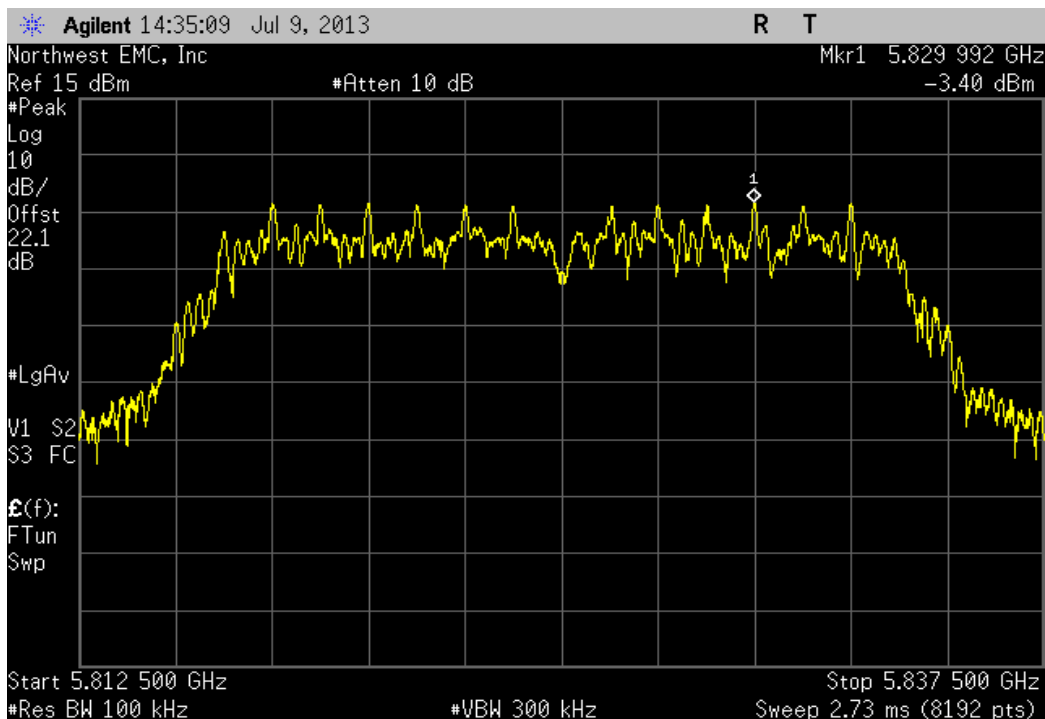
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43.72 dBc	≤ -20 dBc	Pass	



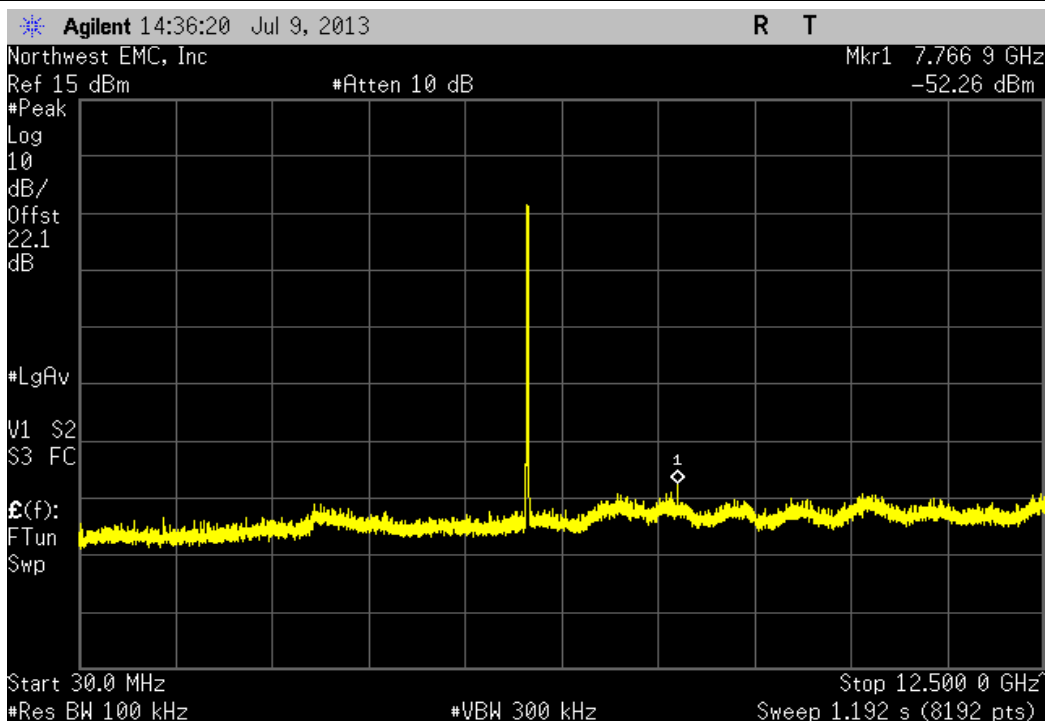
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-34.01 dBc	≤ -20 dBc	Pass	



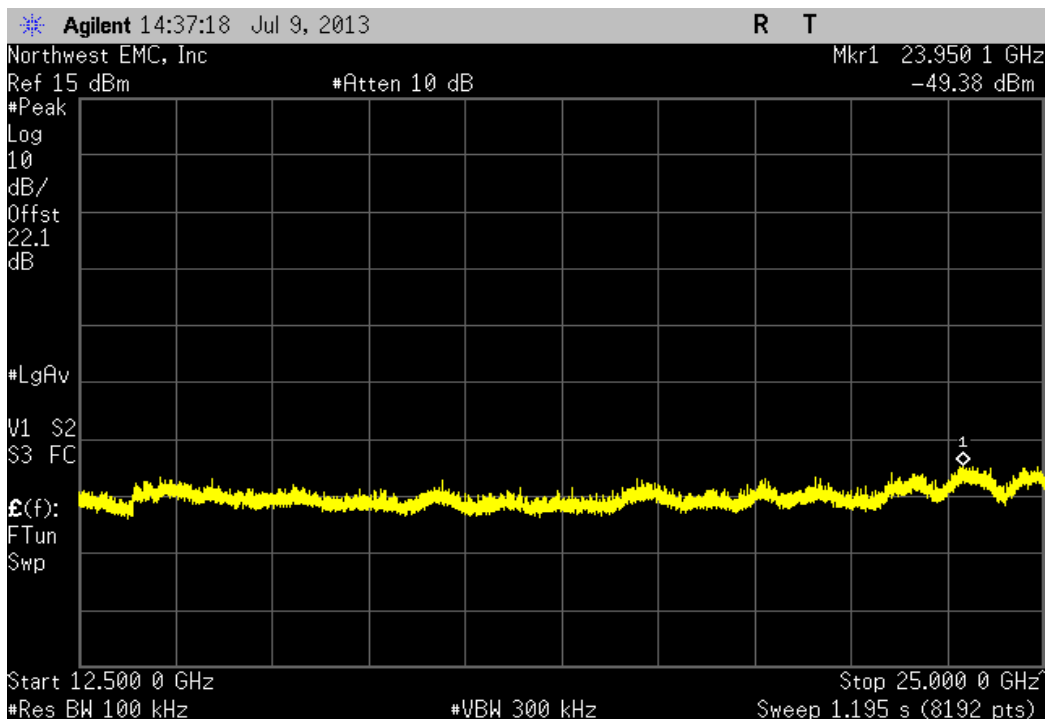
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
Fundamental				N/A	N/A	N/A



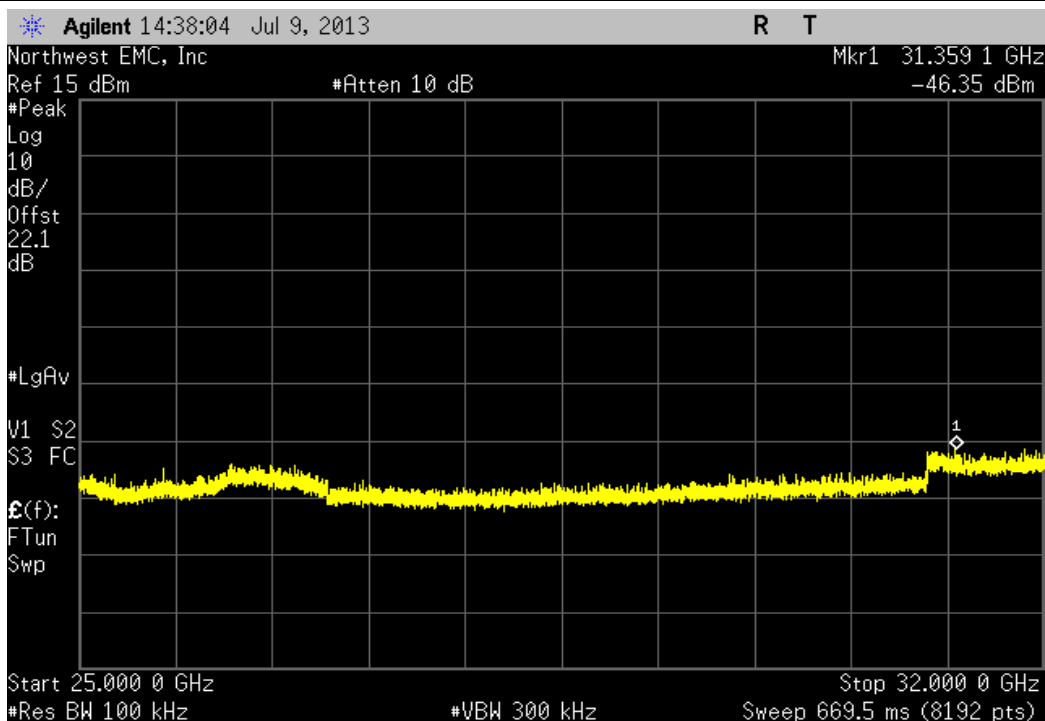
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz						
Frequency Range				Value	Limit	Result
30 MHz - 12.5 GHz				-48.86 dBc	≤ -20 dBc	Pass



20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-45.98 dBc	≤ -20 dBc	Pass	

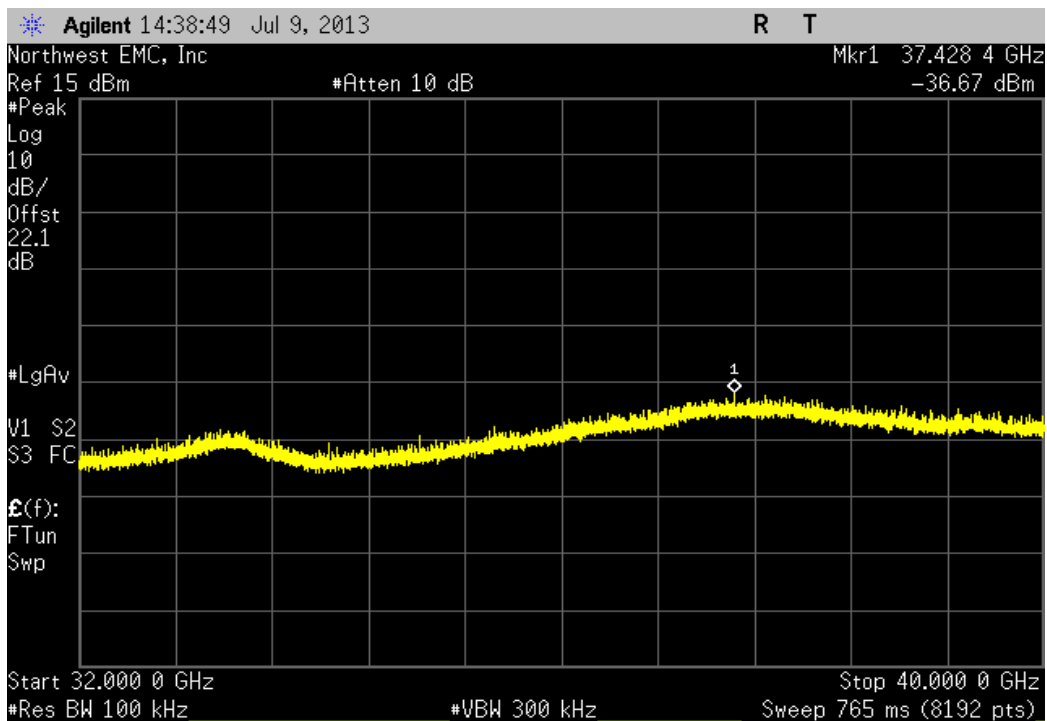


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-42.95 dBc	≤ -20 dBc	Pass	



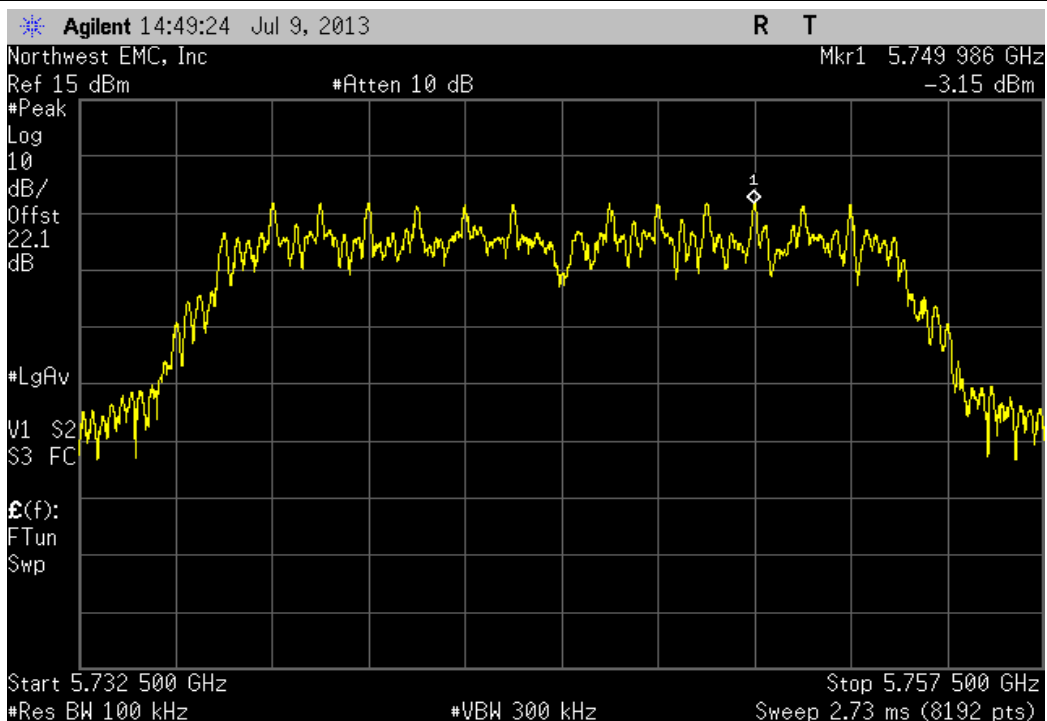
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-33.27 dBc	≤ -20 dBc	Pass

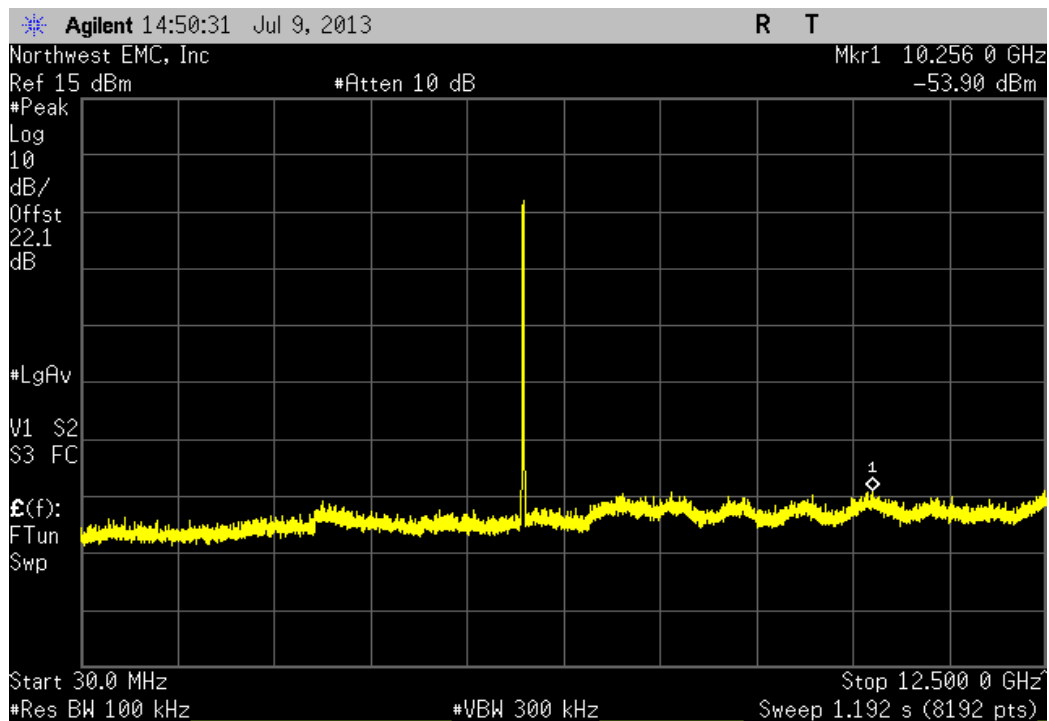


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

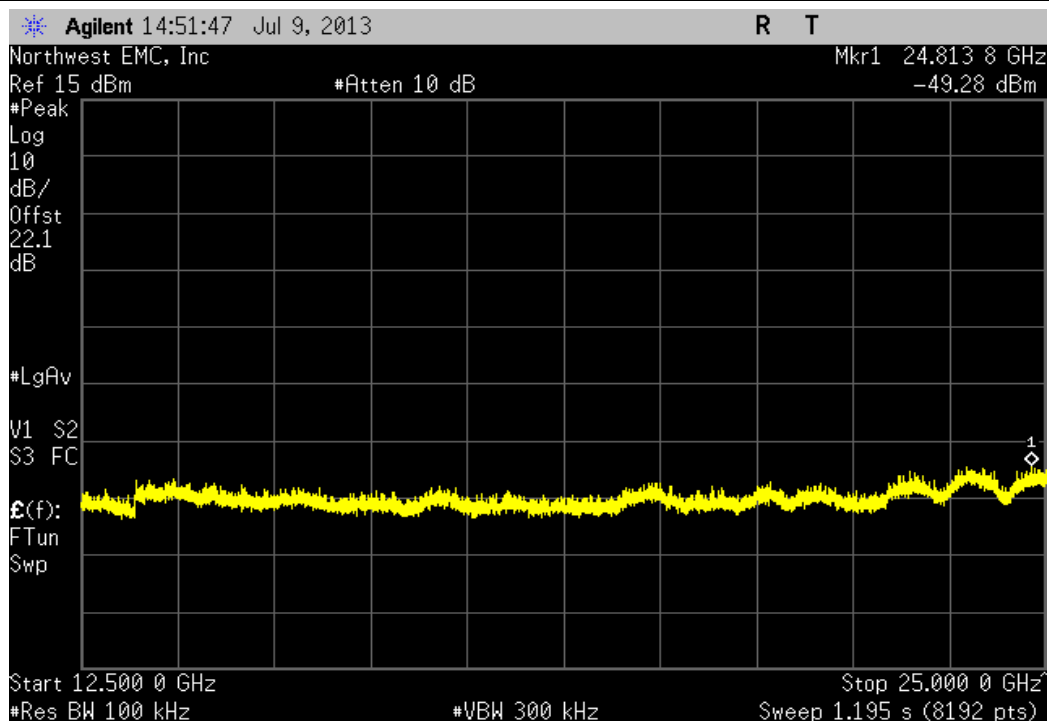
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



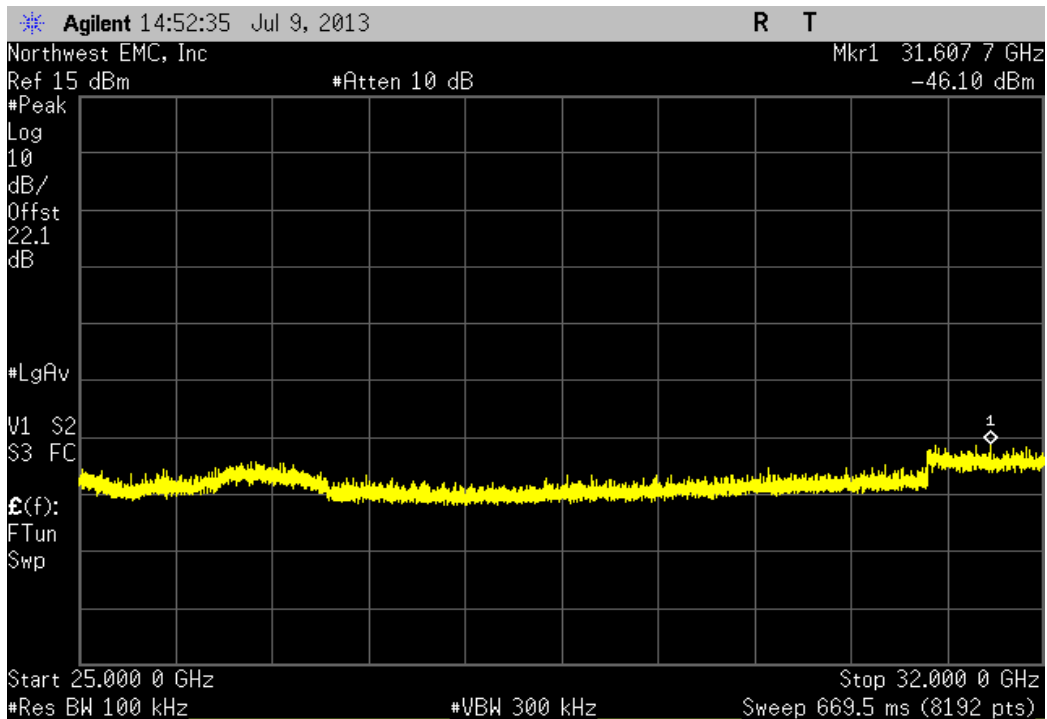
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.75 dBc	≤ -20 dBc	Pass	



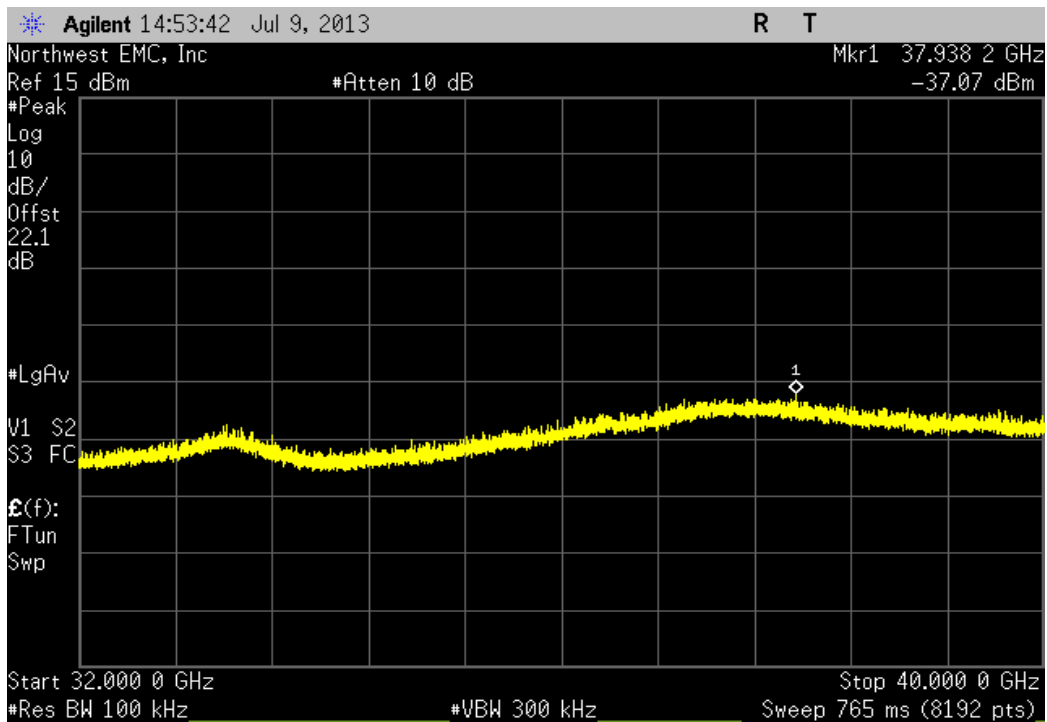
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.14 dBc	≤ -20 dBc	Pass	



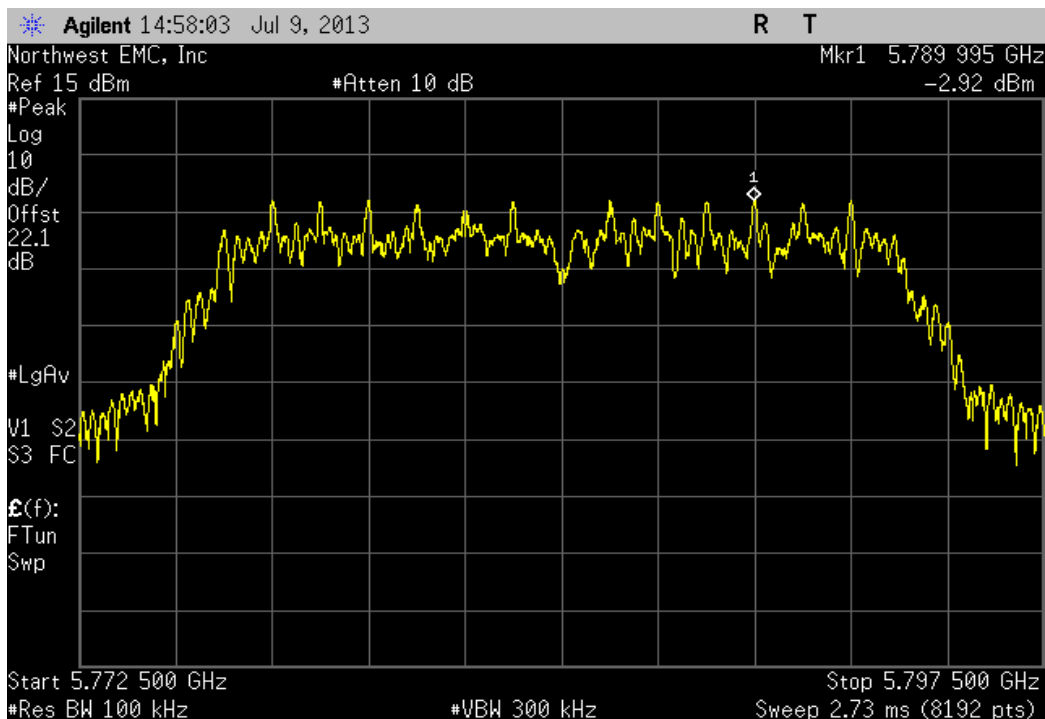
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-42.95 dBc	≤ -20 dBc	Pass	



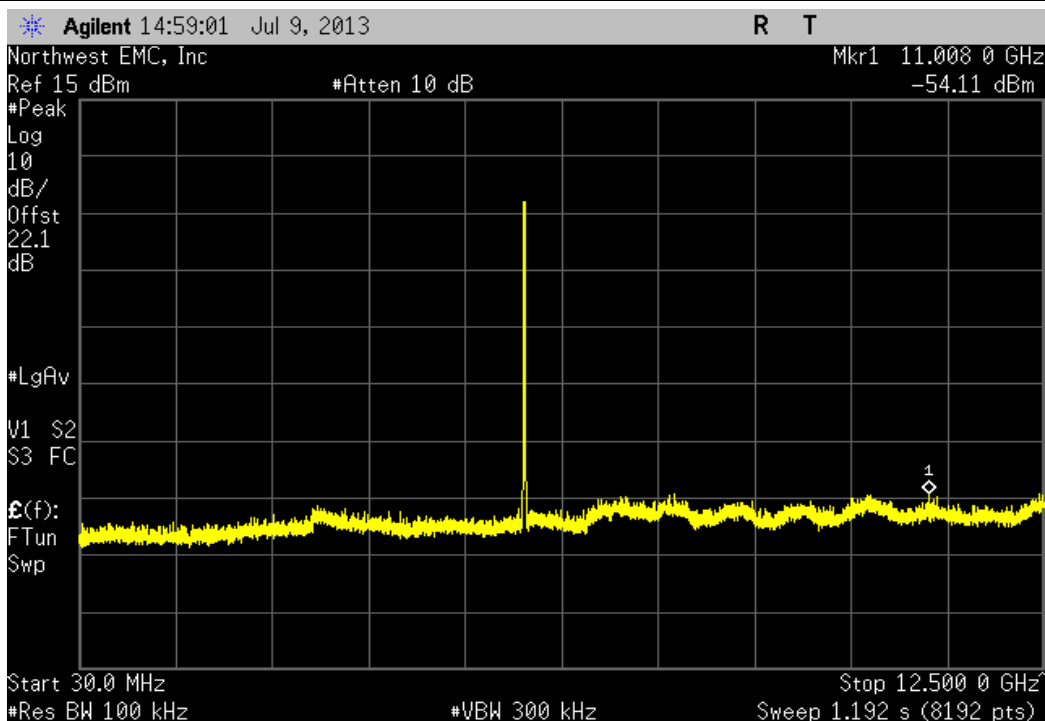
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-33.92 dBc	≤ -20 dBc	Pass	



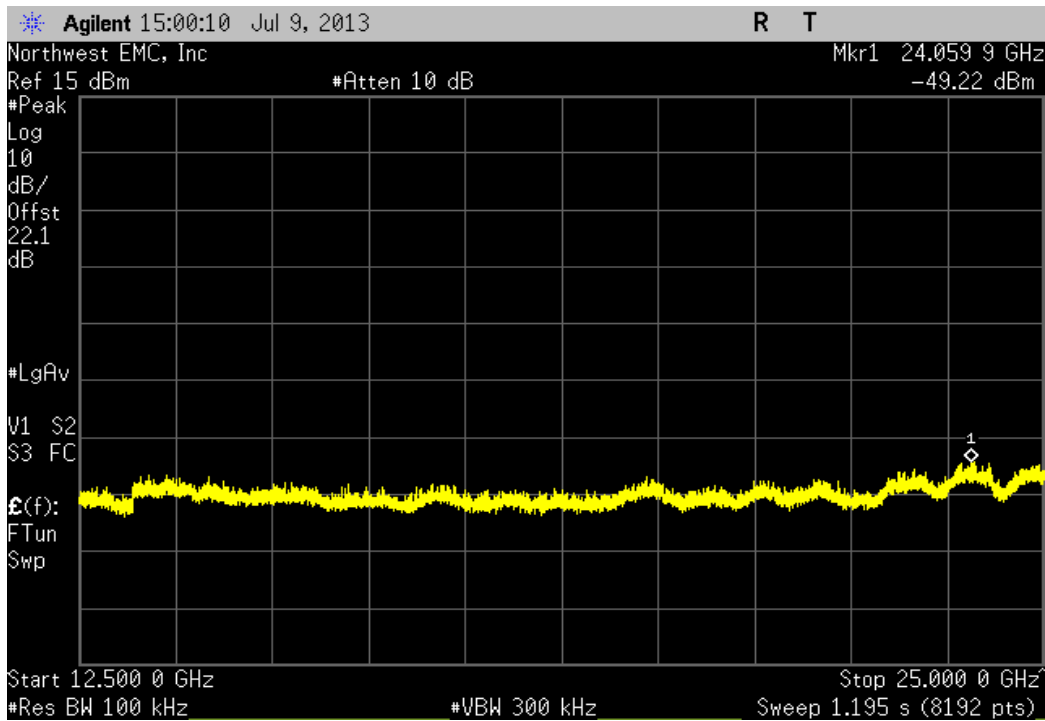
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



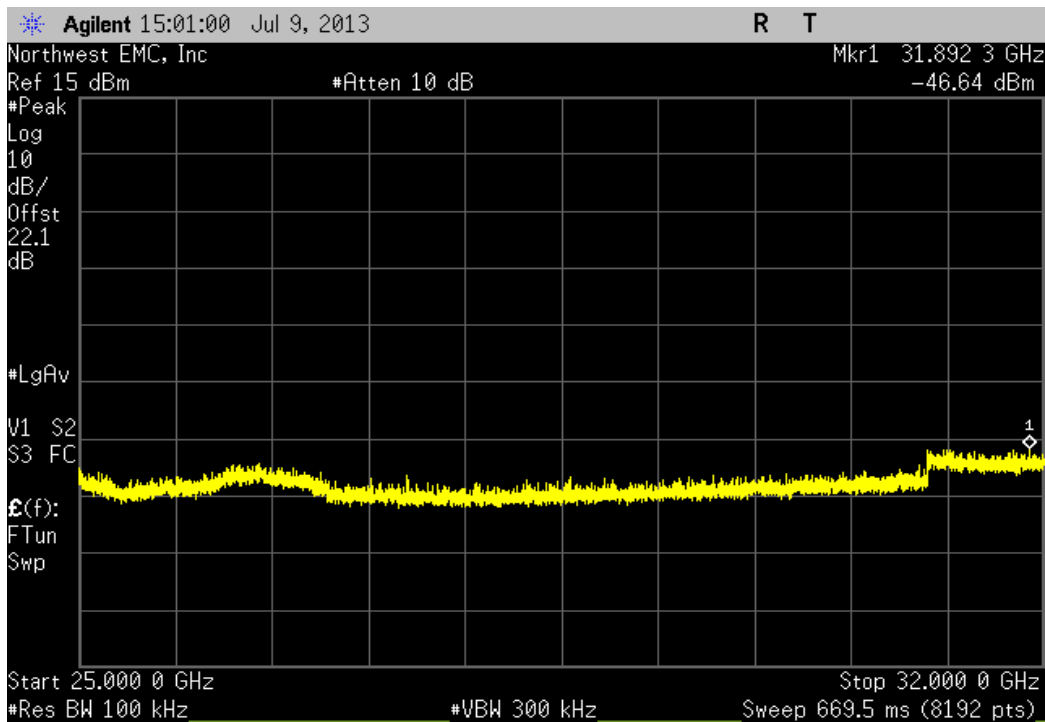
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.19 dBc	≤ -20 dBc	Pass



20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.3 dBc	≤ -20 dBc	Pass	

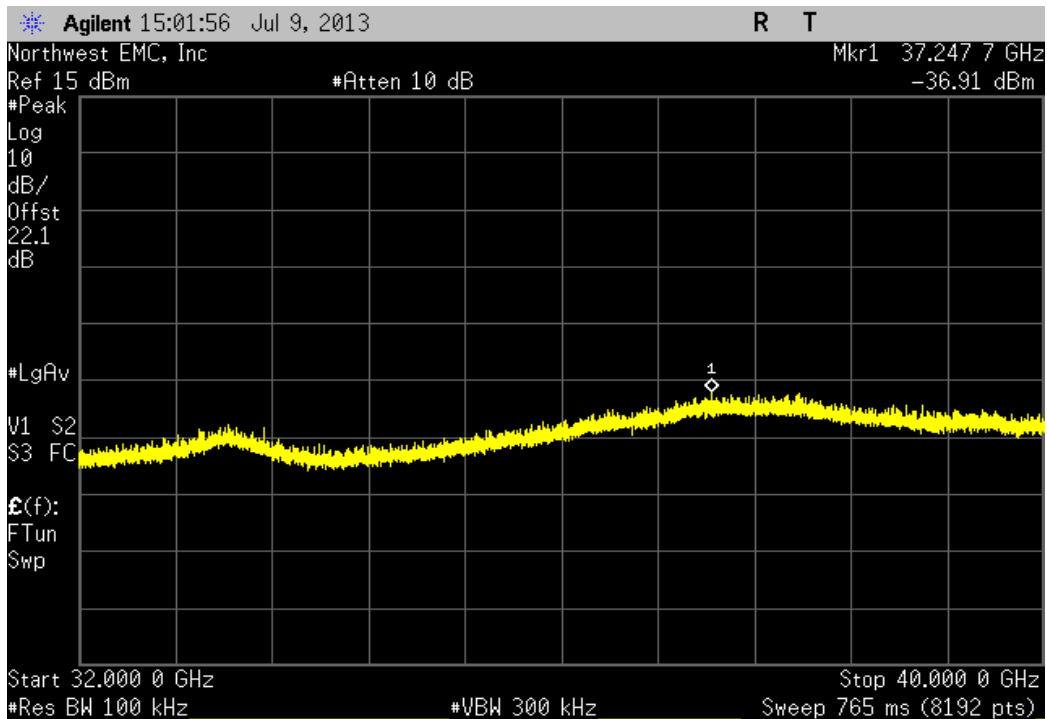


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-43.72 dBc	≤ -20 dBc	Pass	



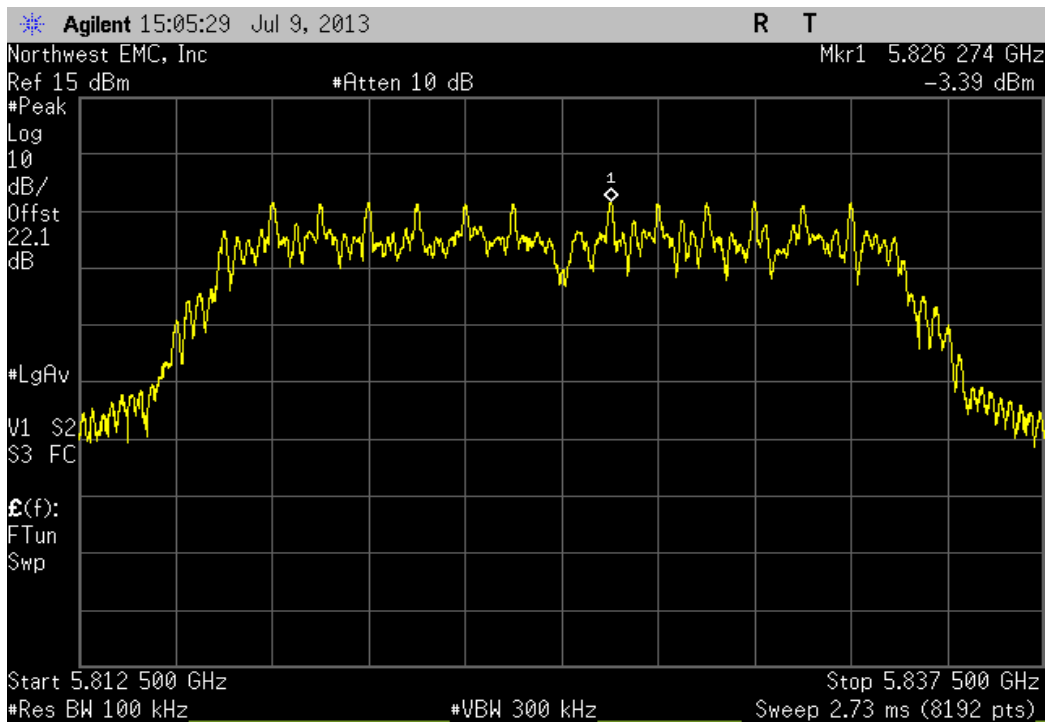
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Mid Channel 157, 5785 MHz

Frequency Range	Value	Limit	Result
32 GHz - 40 GHz	-33.99 dBc	≤ -20 dBc	Pass

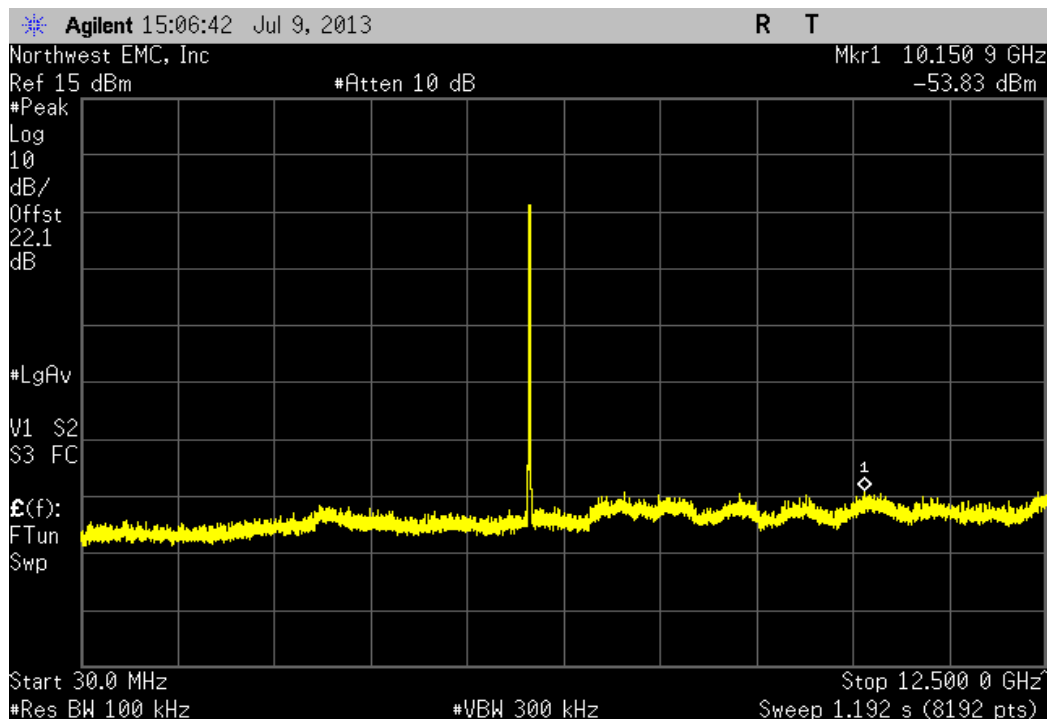


20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

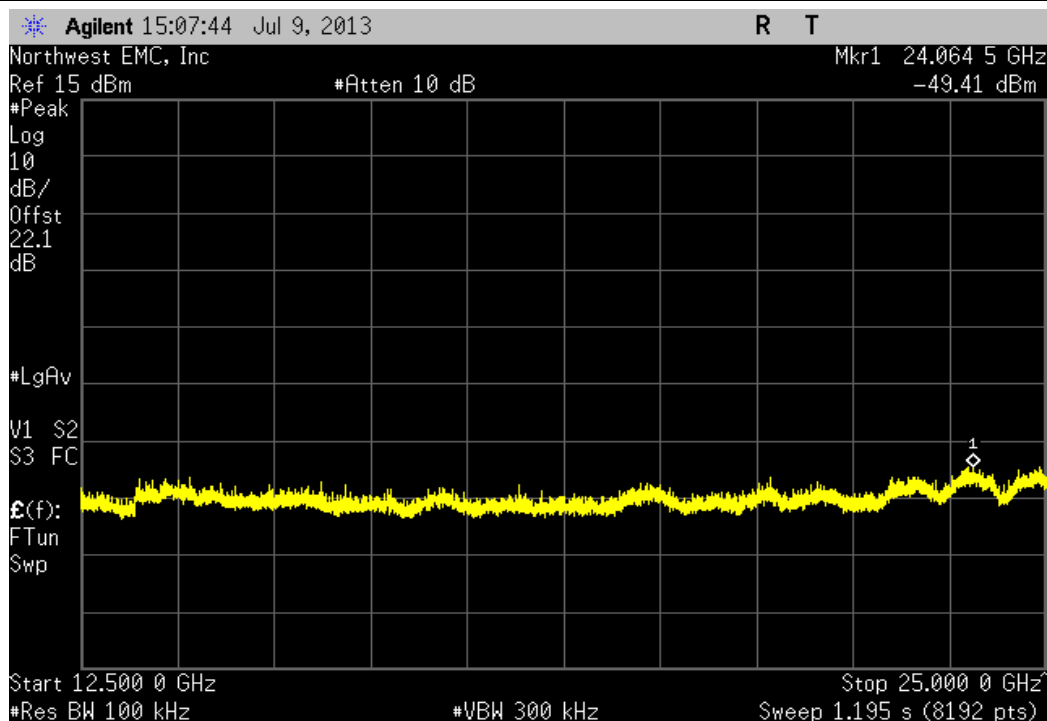
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



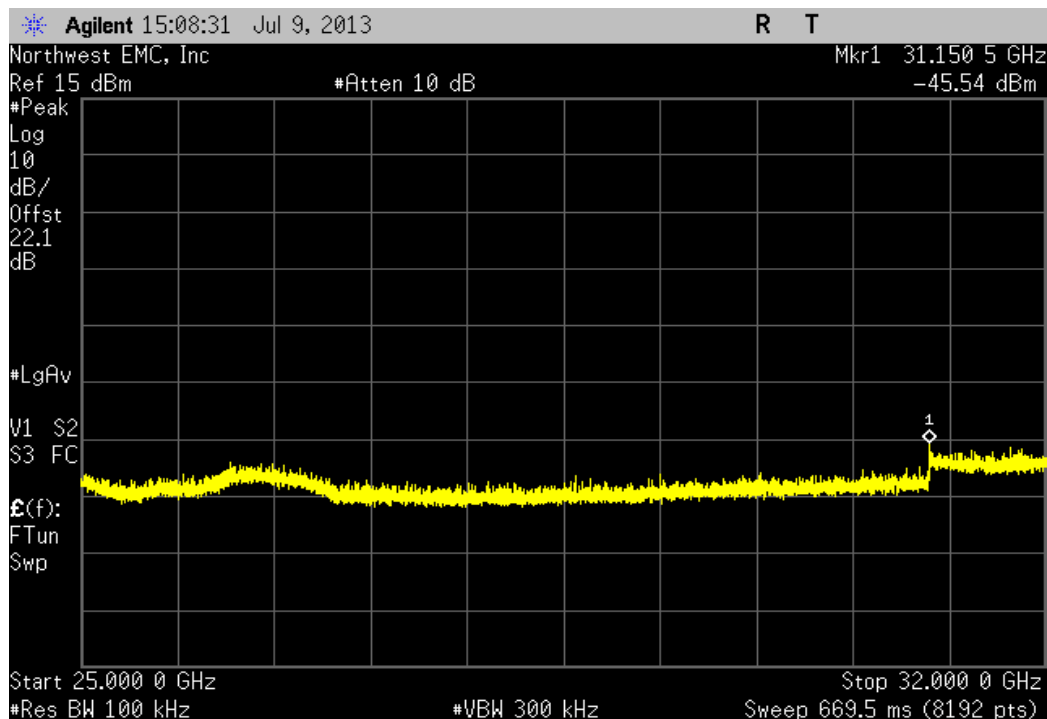
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.44 dBc	≤ -20 dBc	Pass	



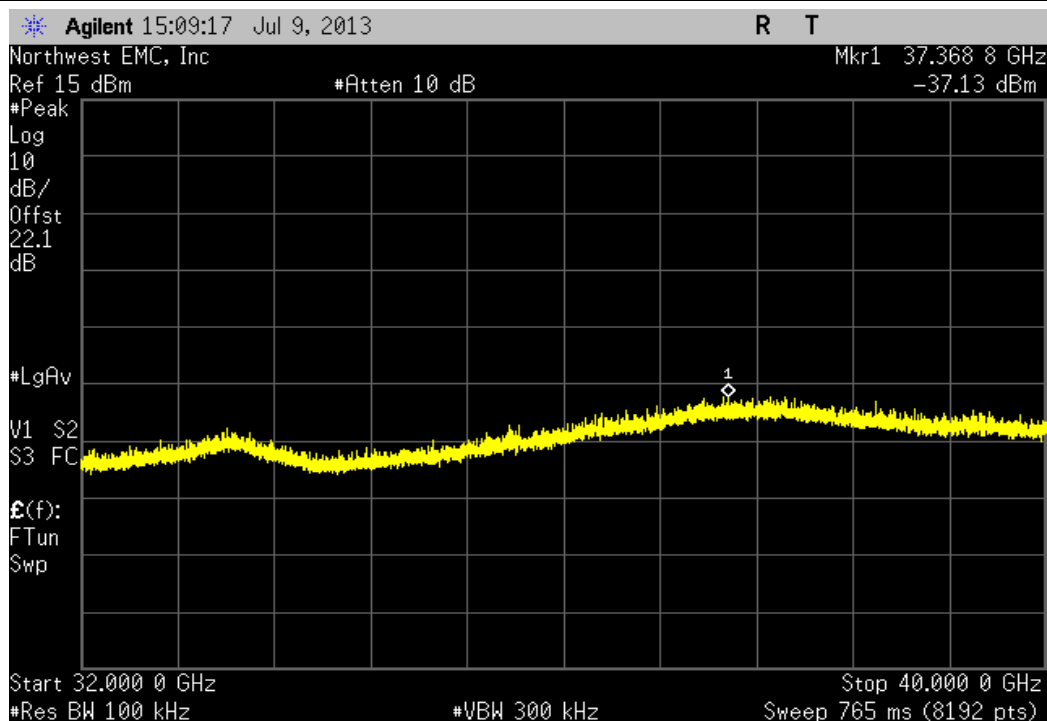
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-46.02 dBc	≤ -20 dBc	Pass	



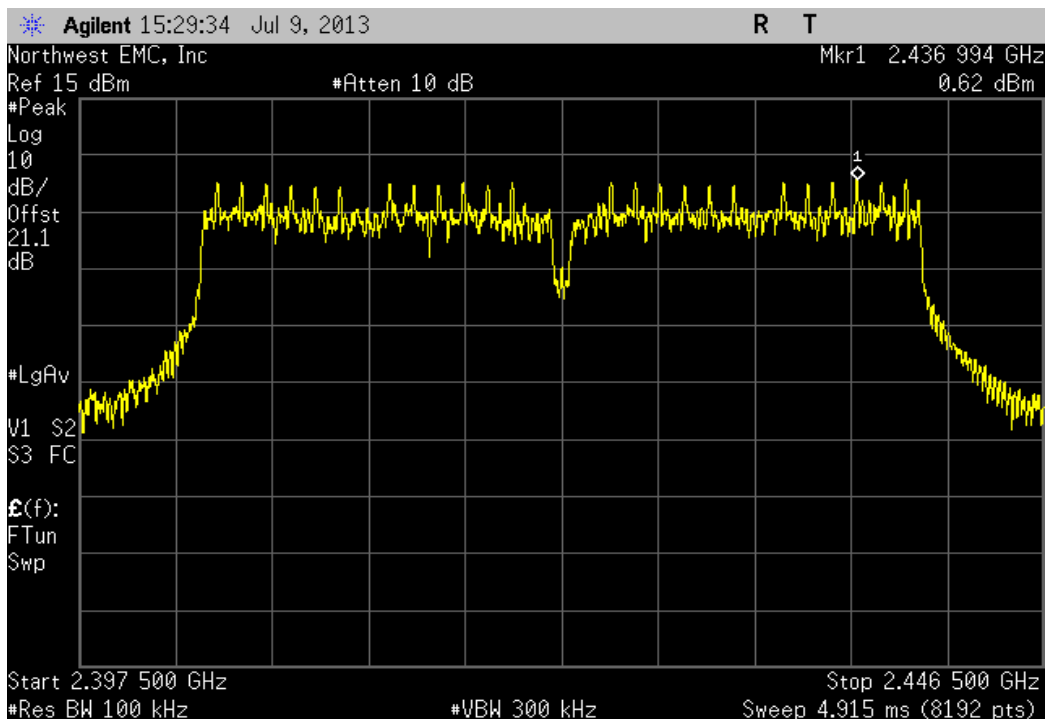
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-42.15 dBc	≤ -20 dBc	Pass



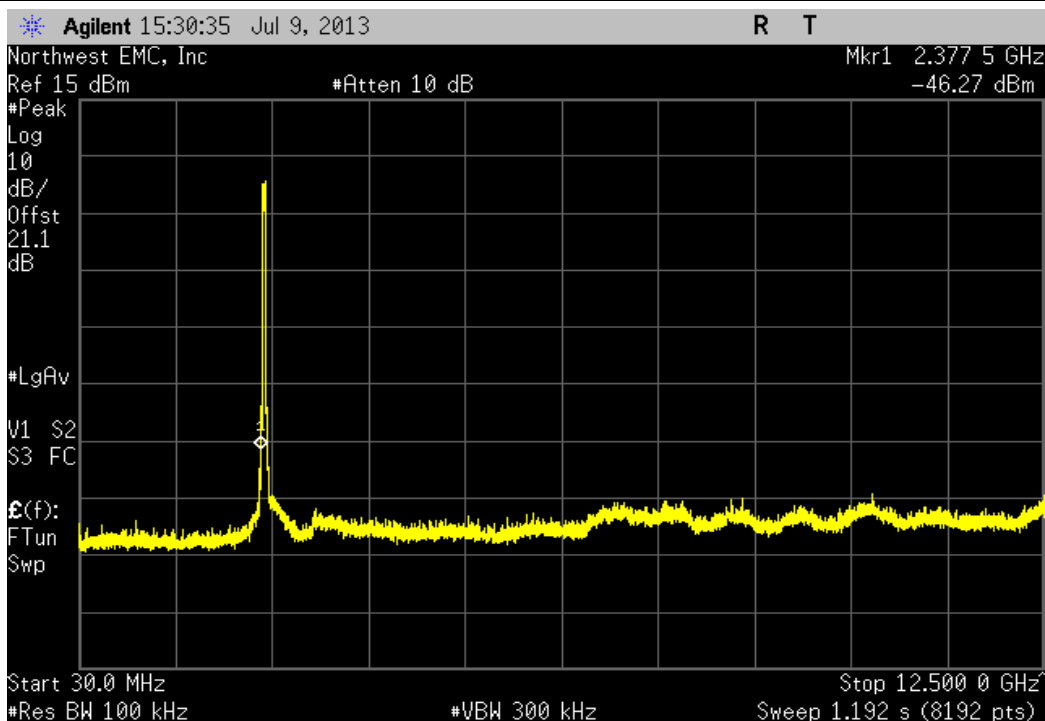
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-33.74 dBc	≤ -20 dBc	Pass



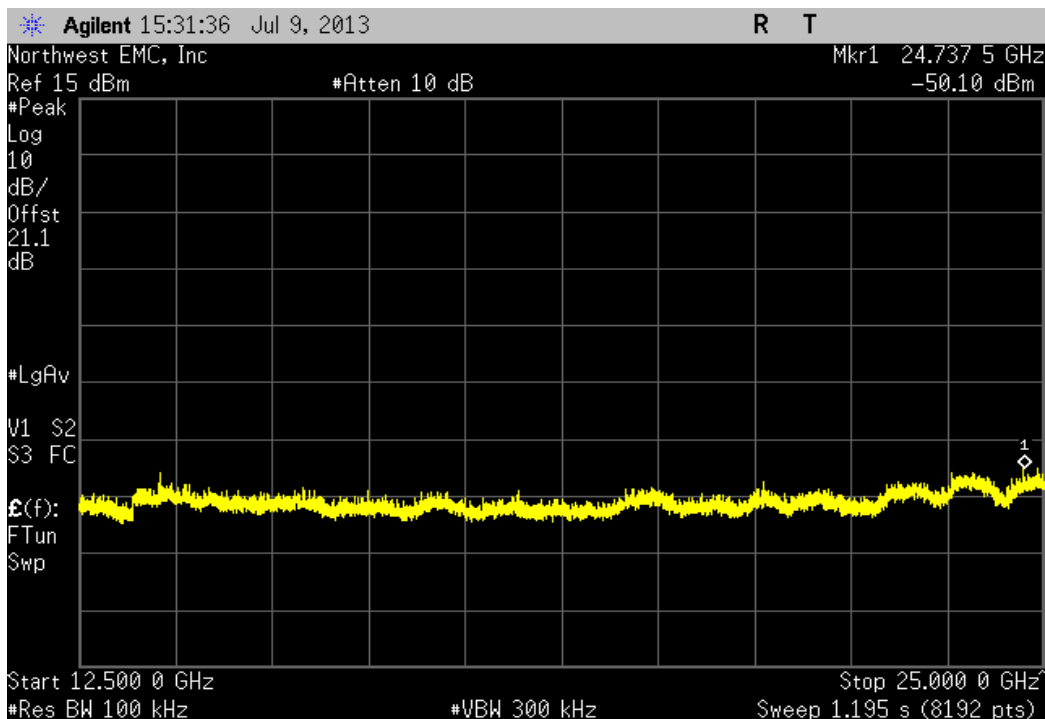
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



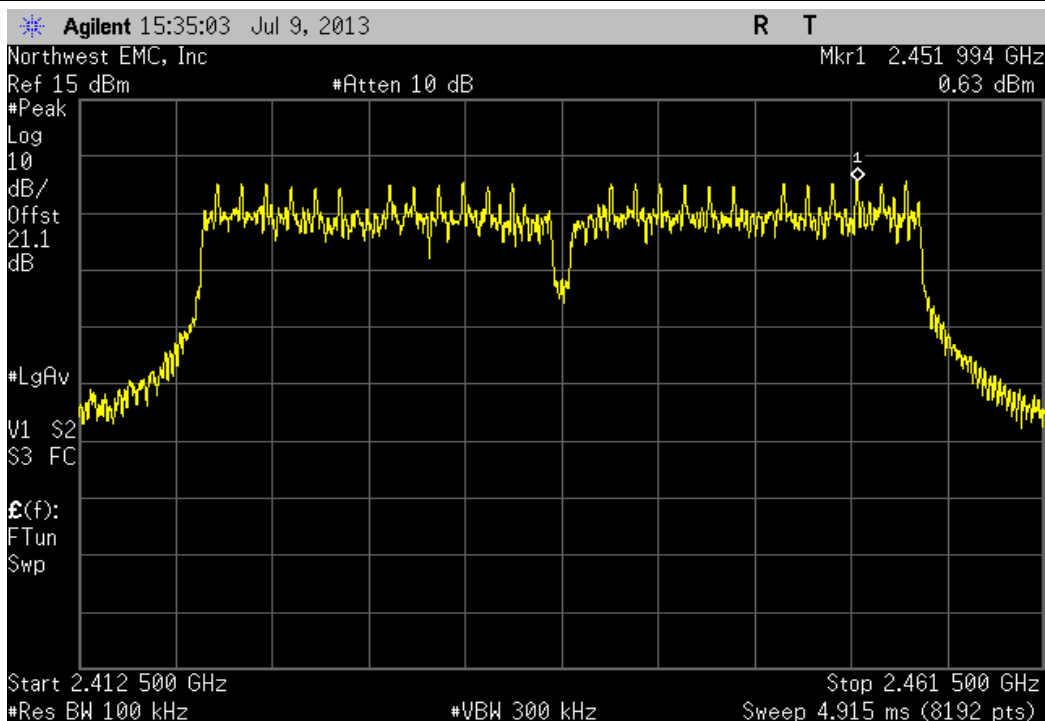
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-46.89 dBc	≤ -20 dBc	Pass



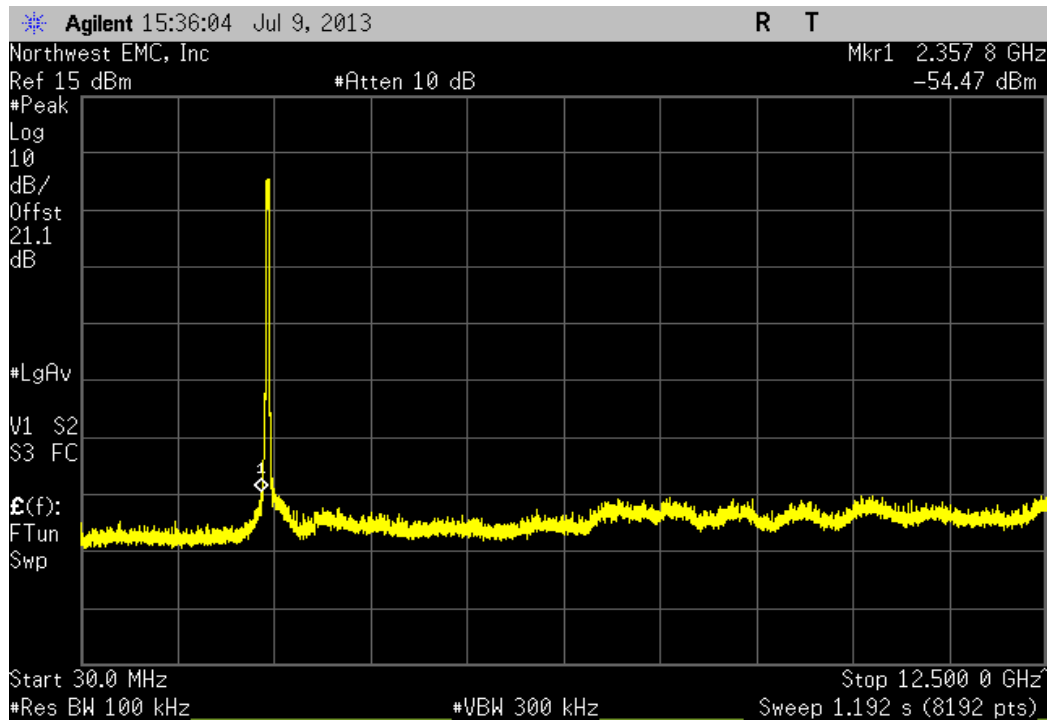
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-50.72 dBc	≤ -20 dBc	Pass



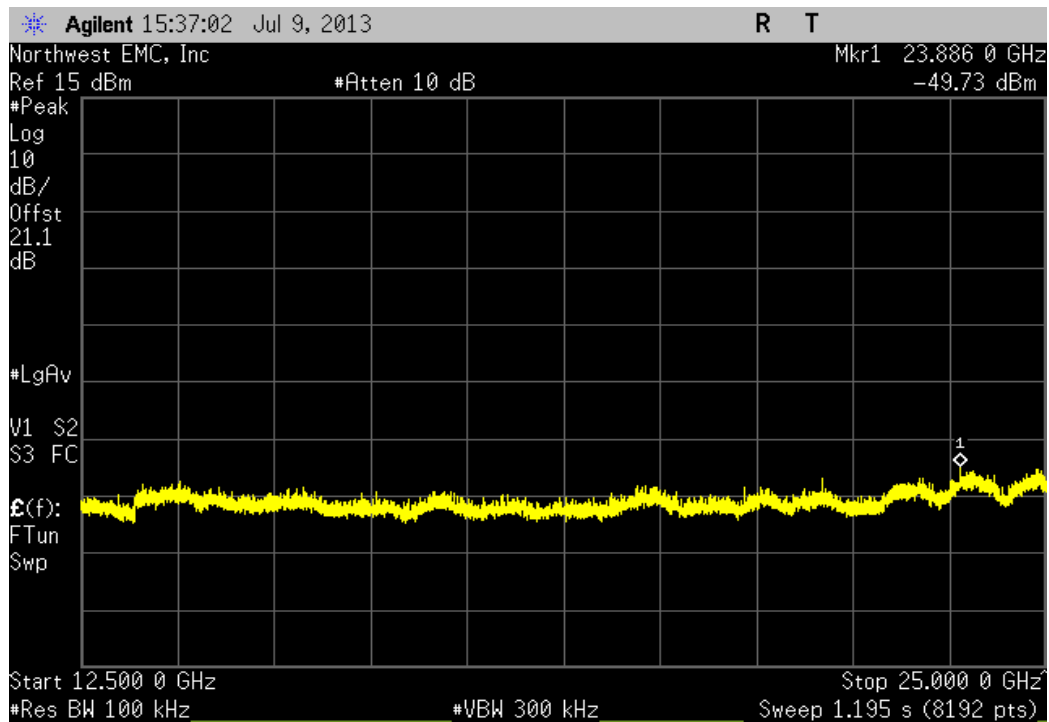
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



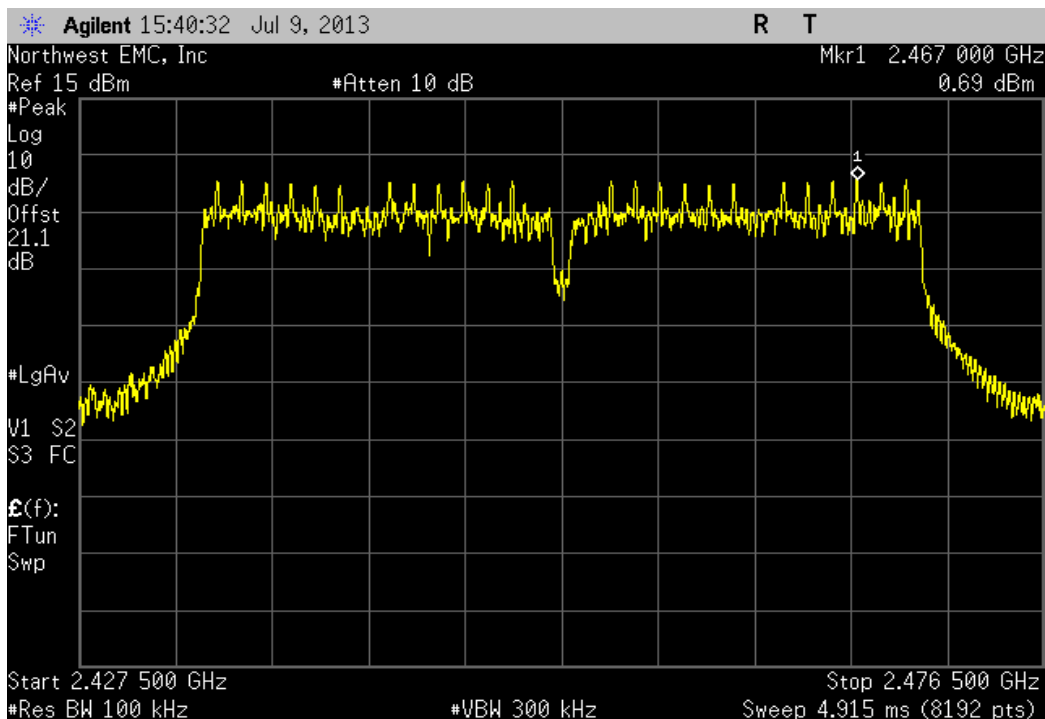
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-55.1 dBc	≤ -20 dBc	Pass	



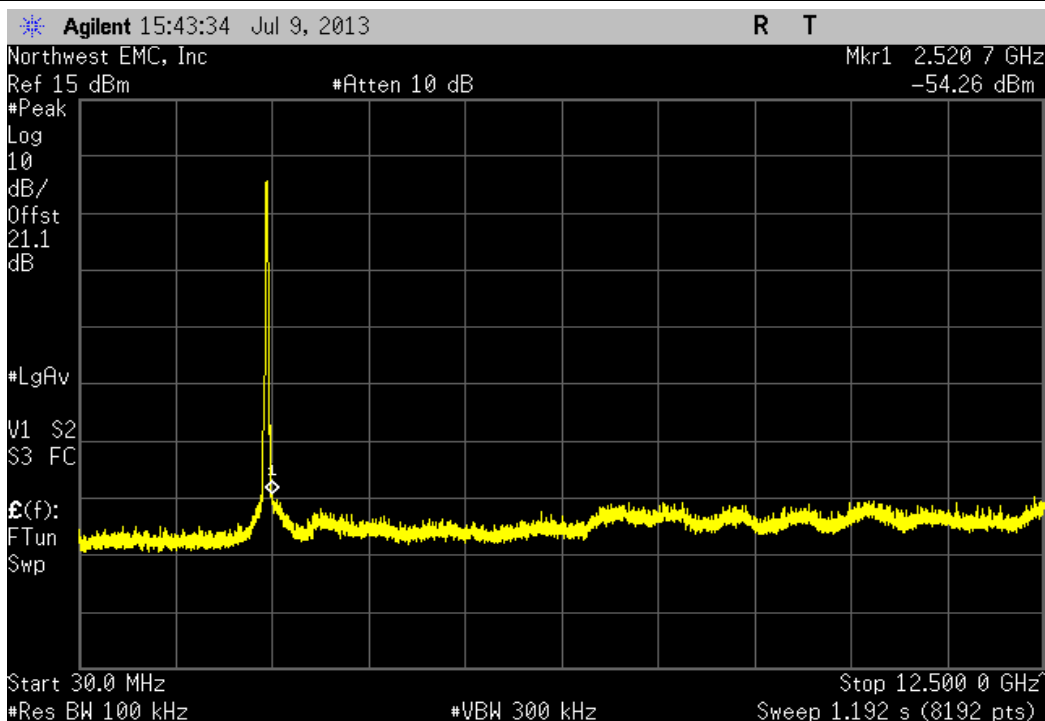
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-50.36 dBc	≤ -20 dBc	Pass	



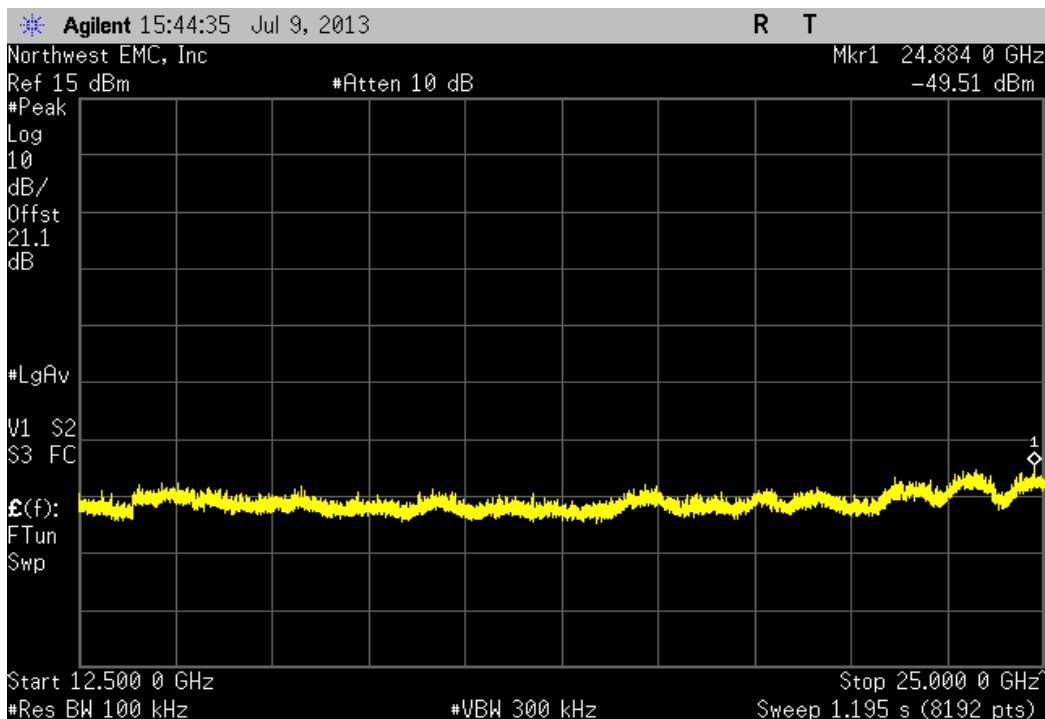
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



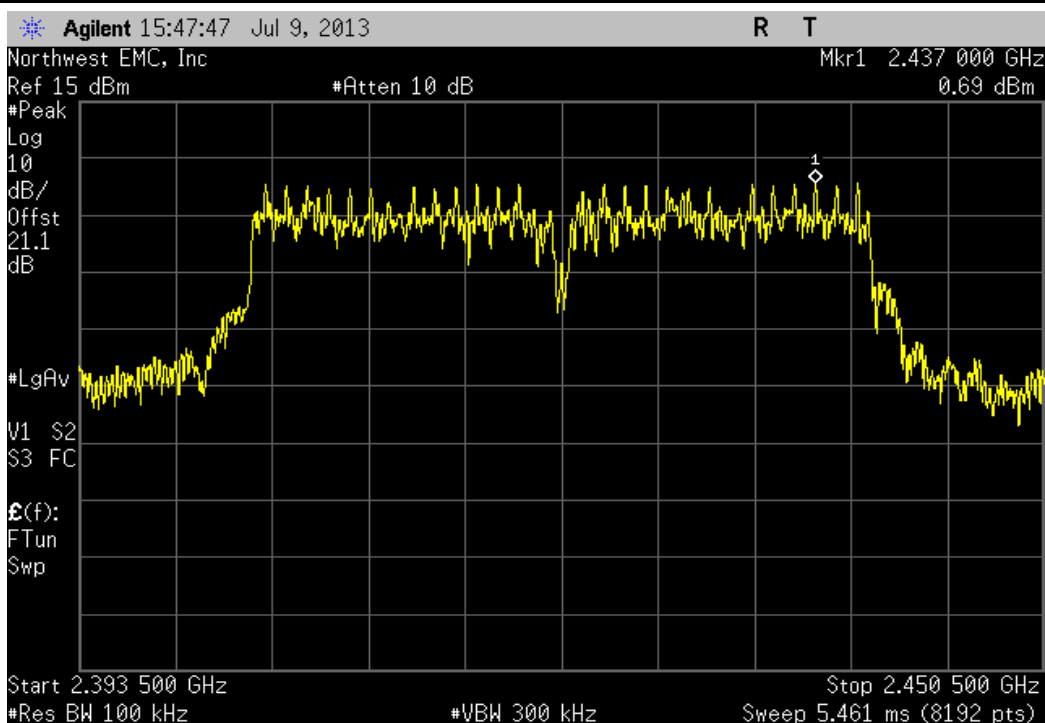
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.95 dBc	≤ -20 dBc	Pass



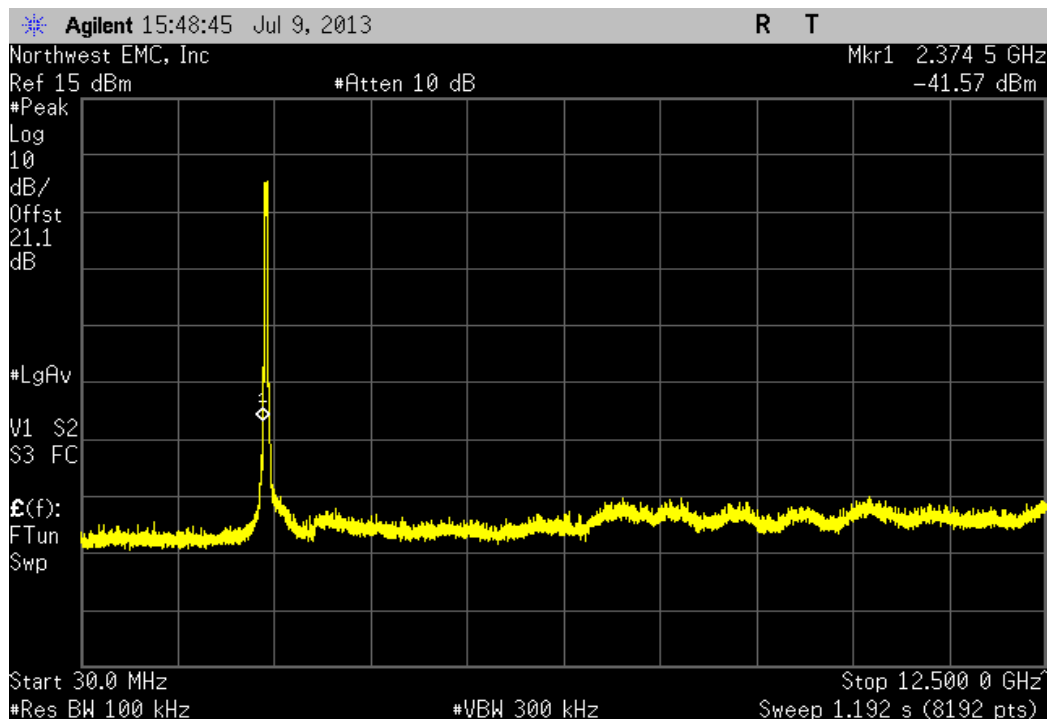
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-50.2 dBc	≤ -20 dBc	Pass	



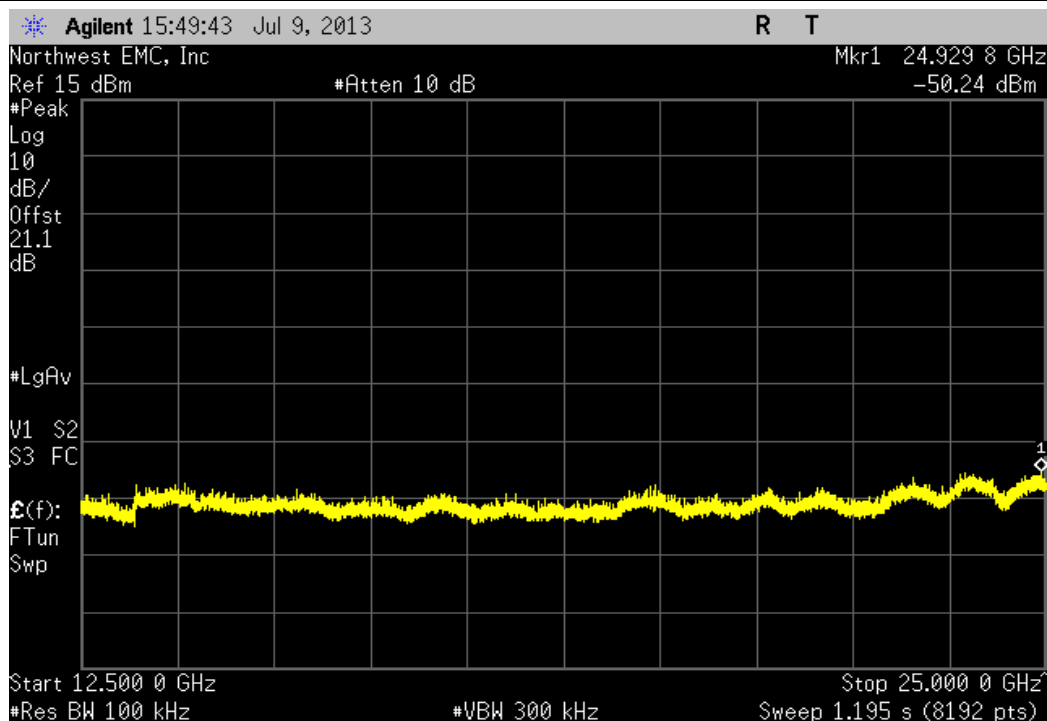
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



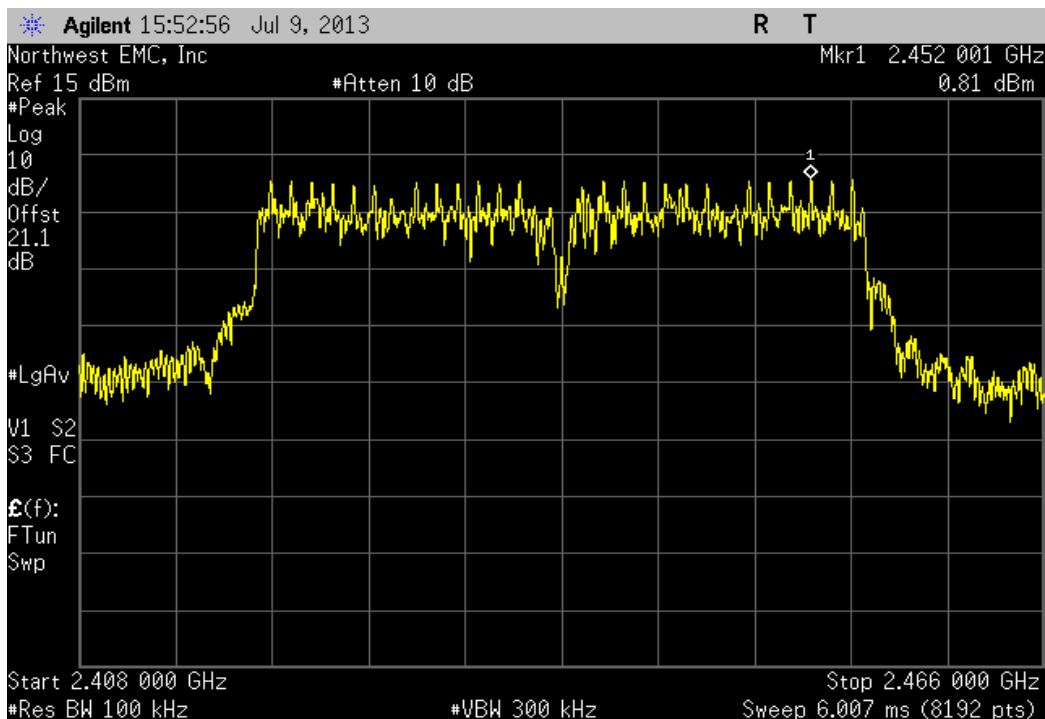
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-42.26 dBc	≤ -20 dBc	Pass	



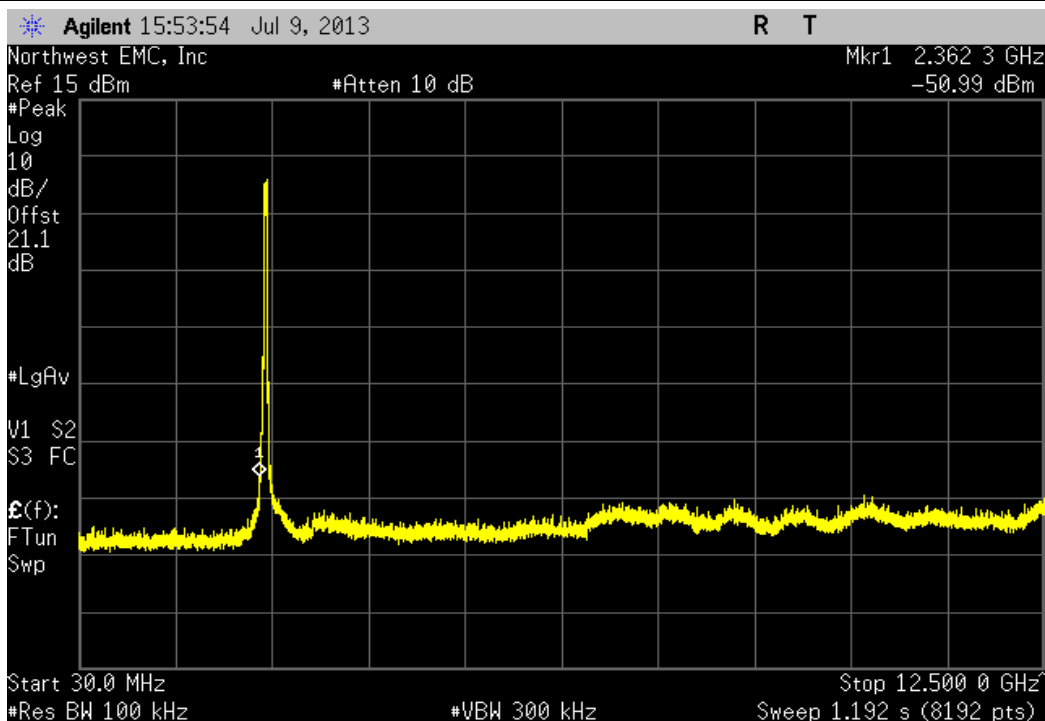
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-50.93 dBc	≤ -20 dBc	Pass	



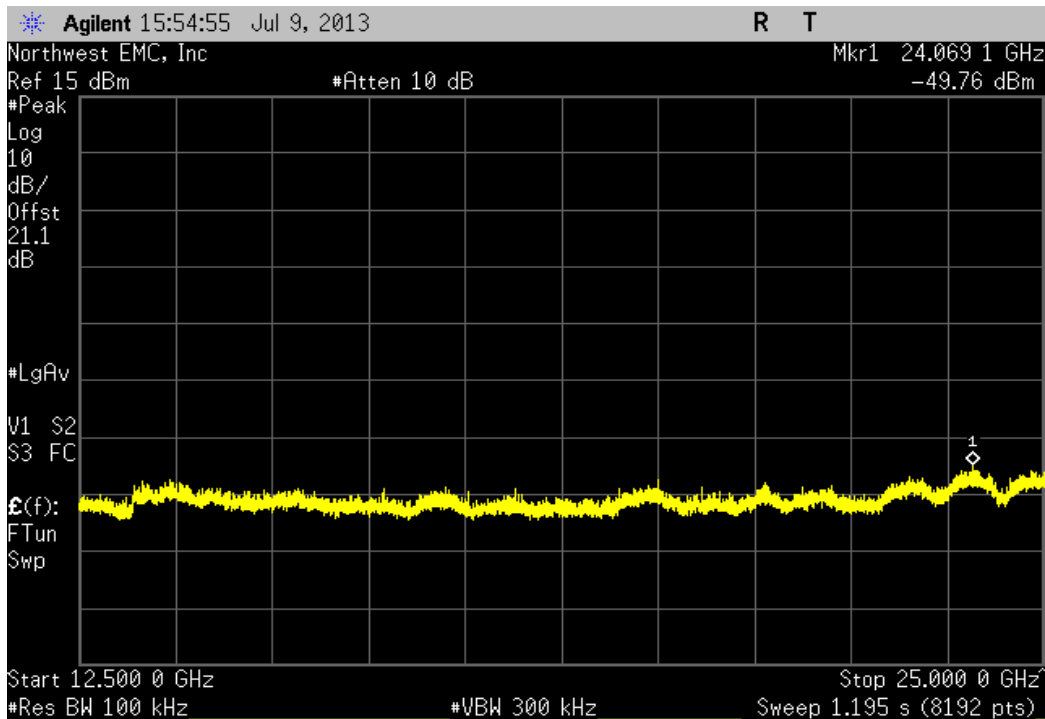
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



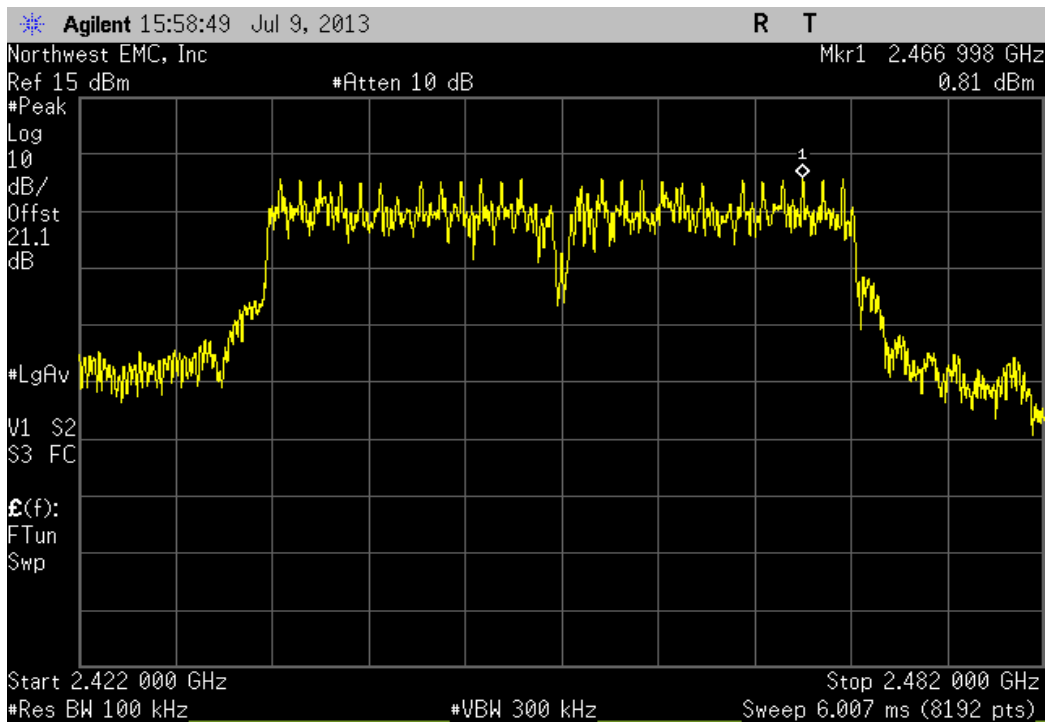
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.8 dBc	≤ -20 dBc	Pass



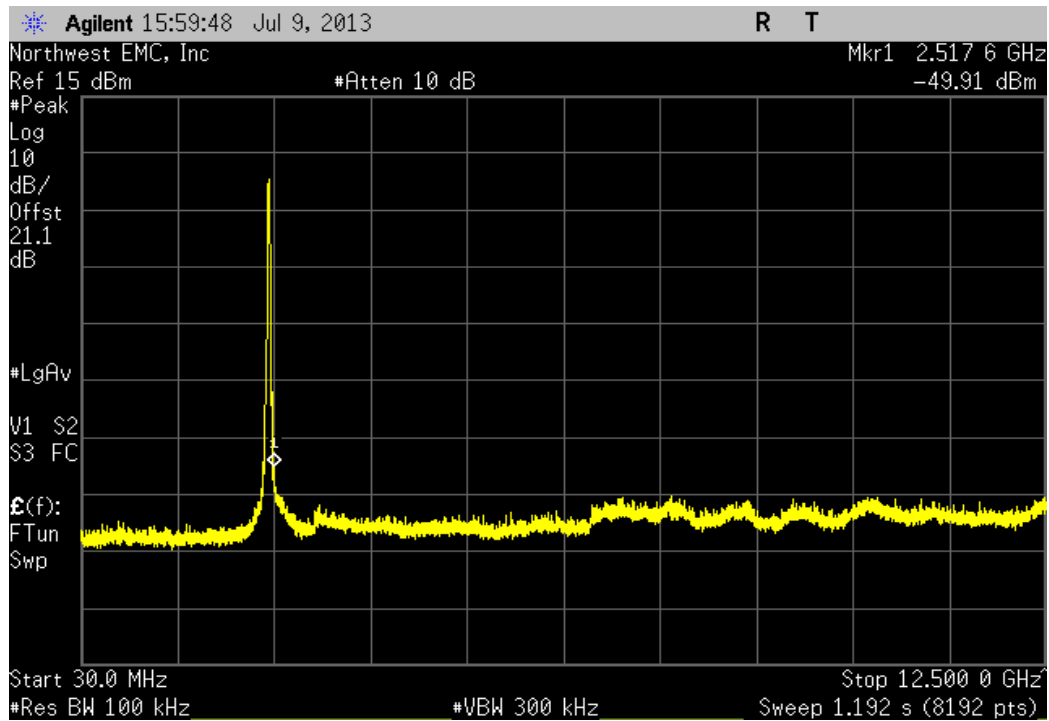
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-50.57 dBc	≤ -20 dBc	Pass



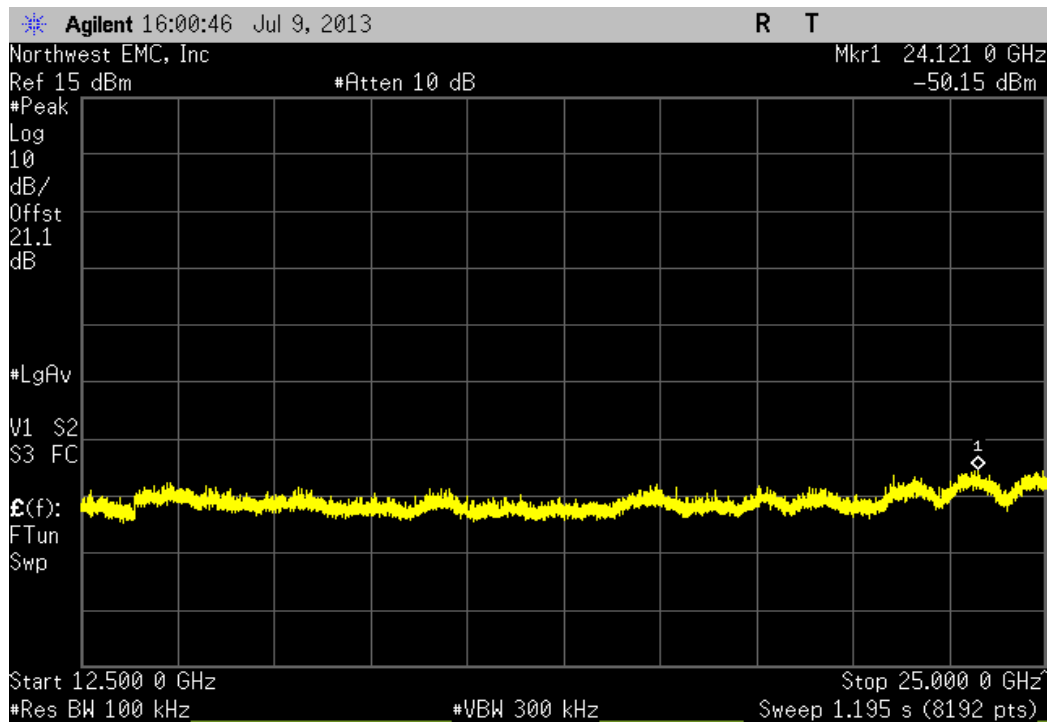
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



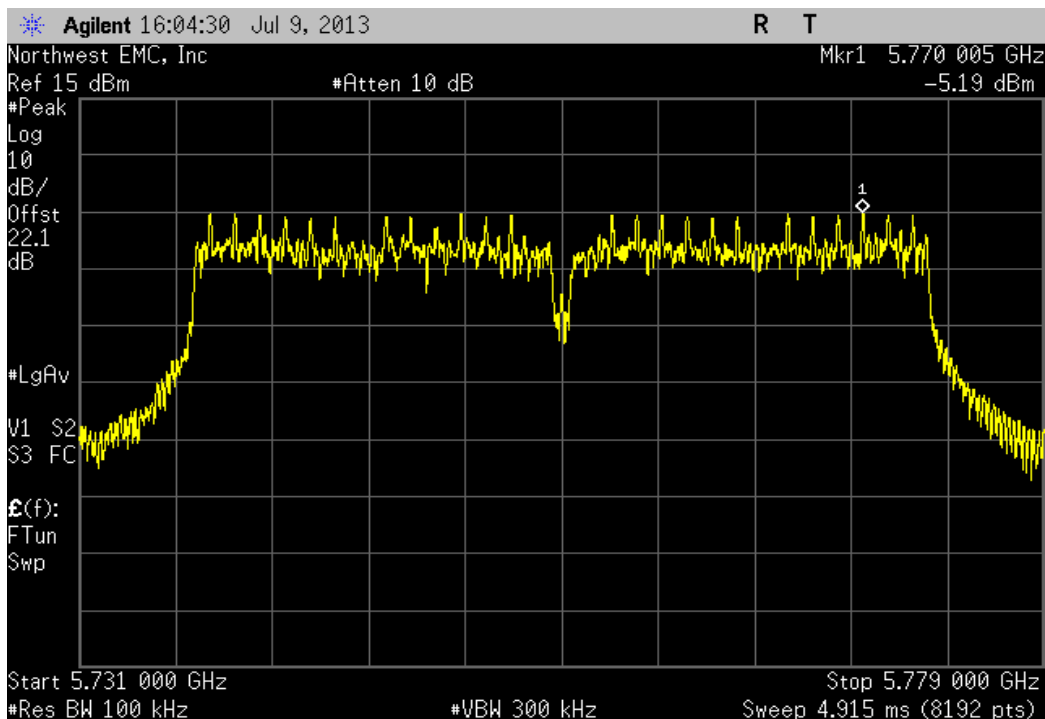
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-50.72 dBc	≤ -20 dBc	Pass	



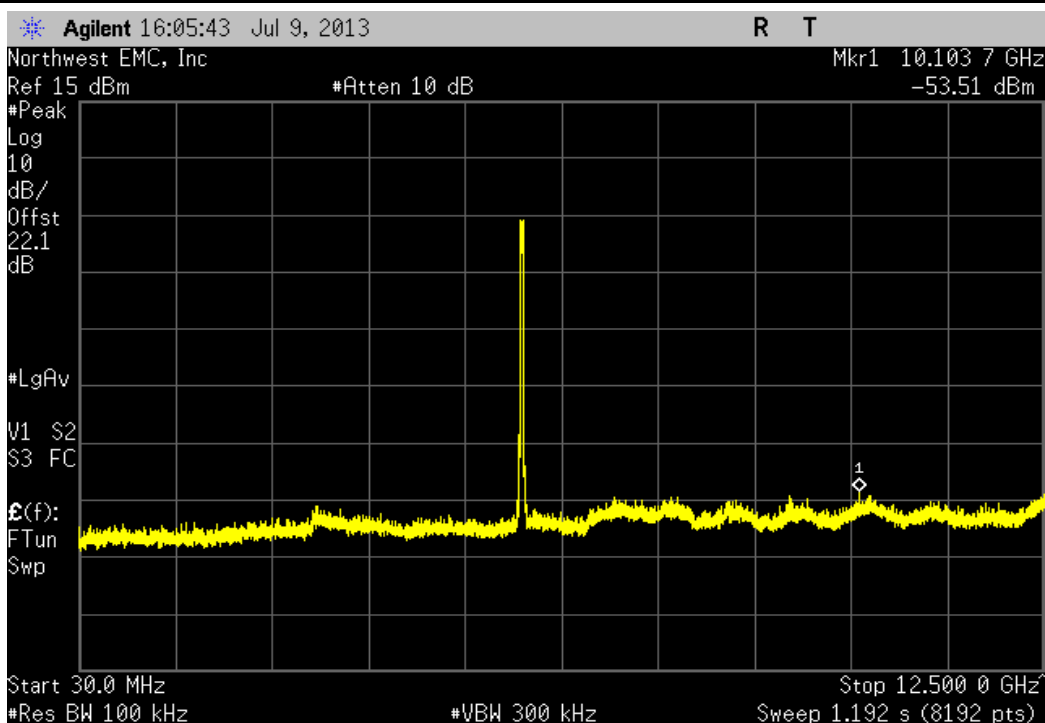
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-50.96 dBc	≤ -20 dBc	Pass	



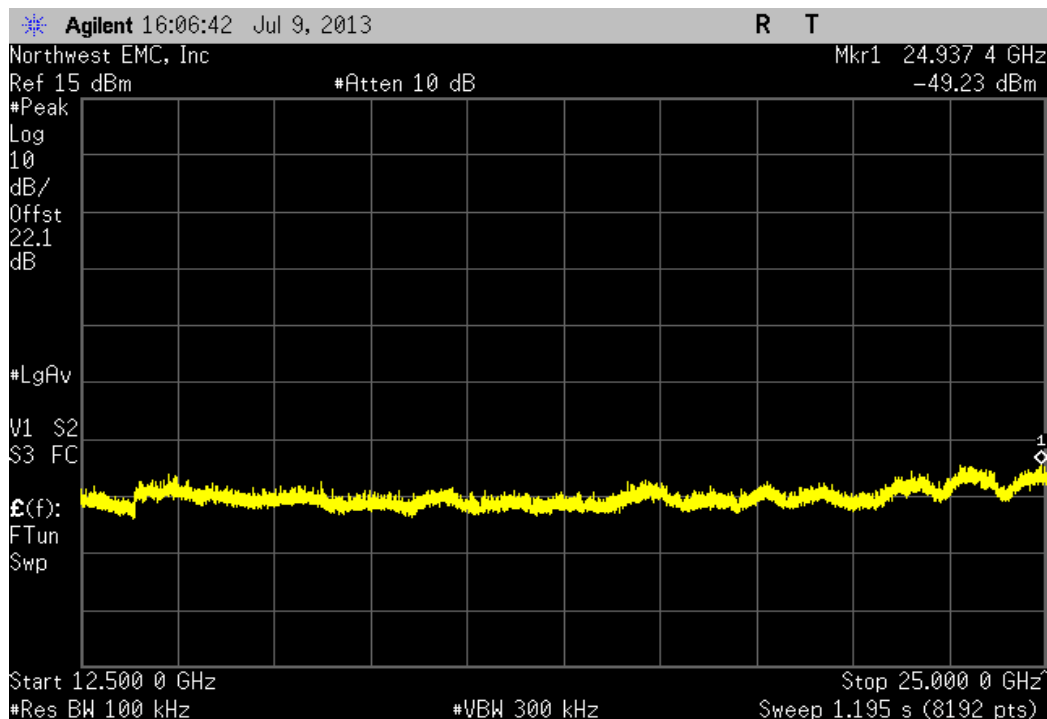
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



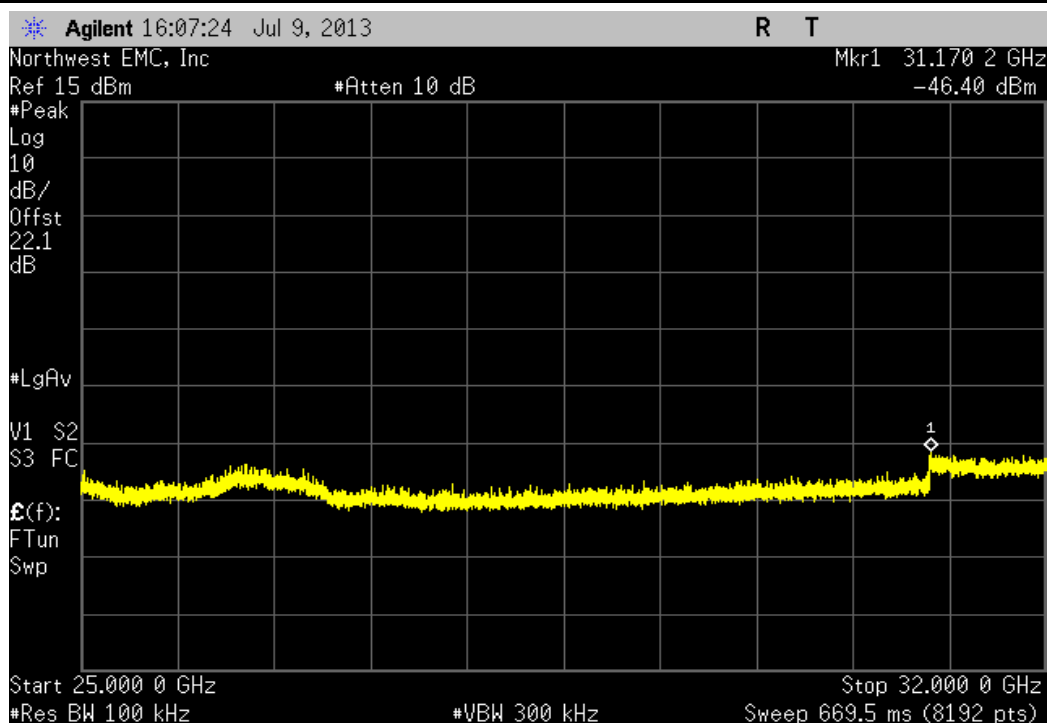
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-48.32 dBc	≤ -20 dBc	Pass



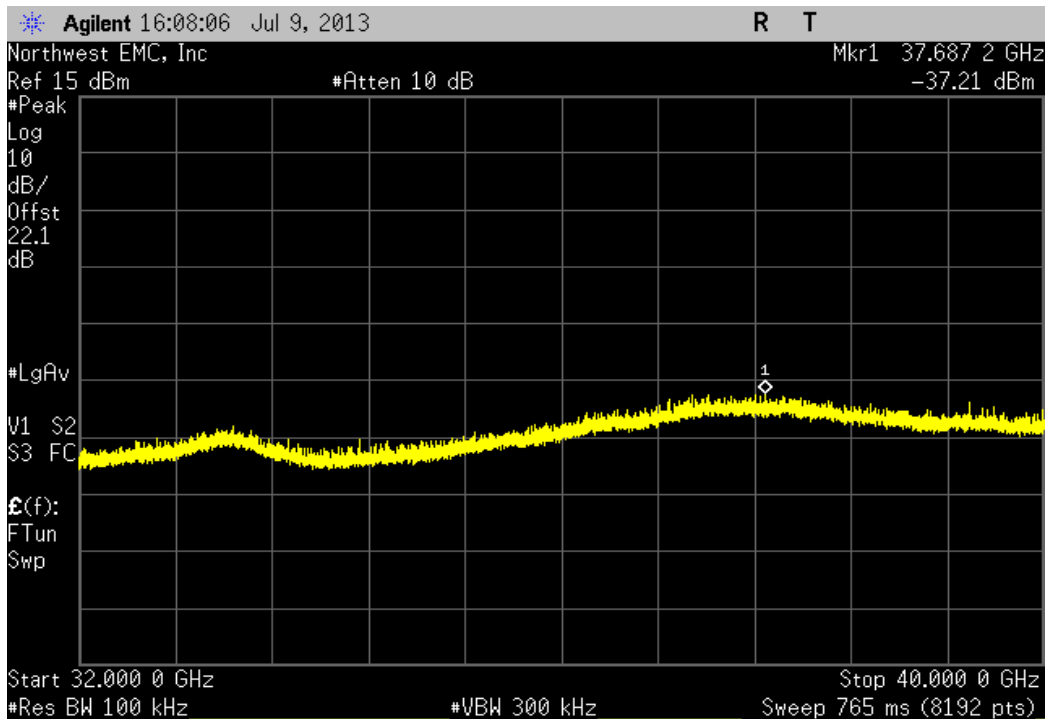
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.04 dBc	≤ -20 dBc	Pass



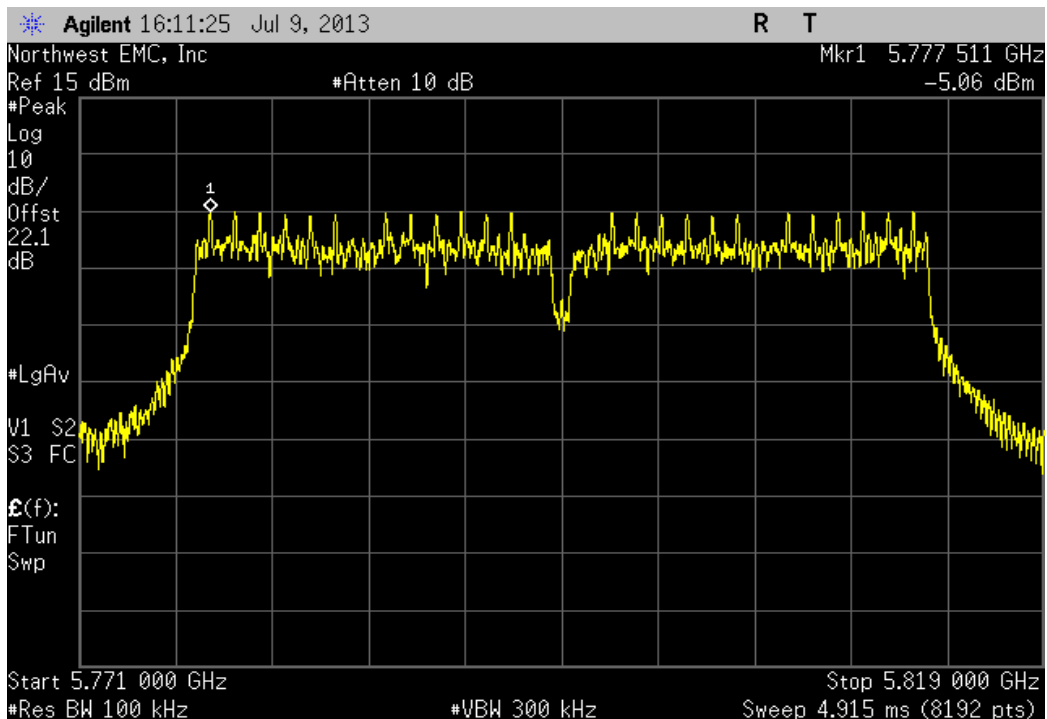
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-41.21 dBc	≤ -20 dBc	Pass



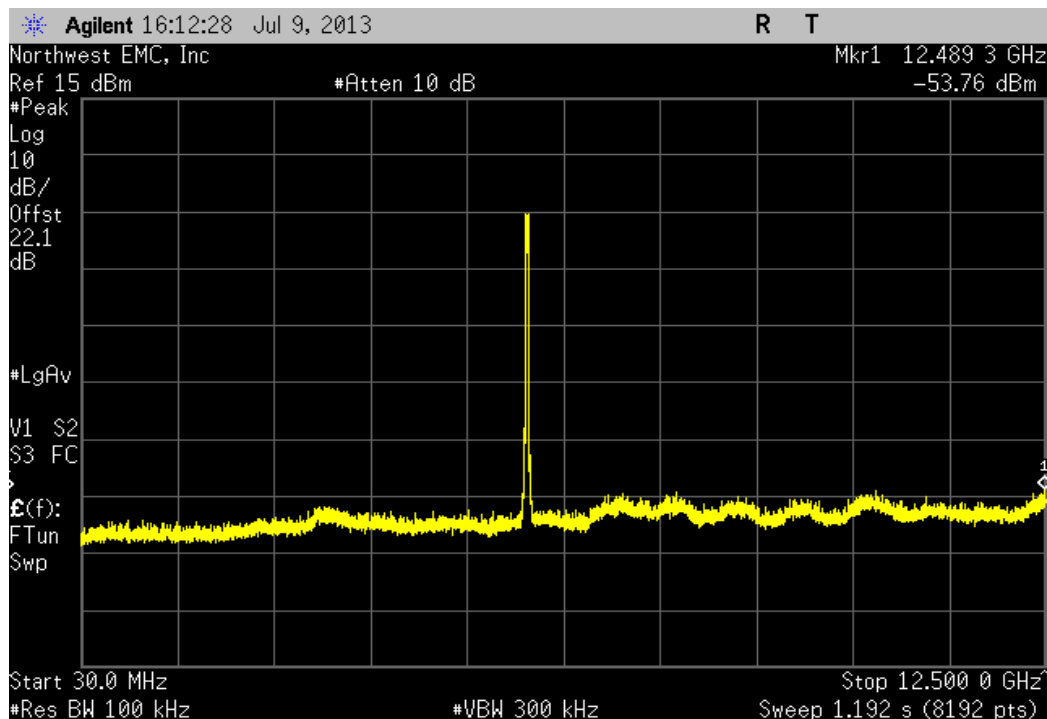
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-32.02 dBc	≤ -20 dBc	Pass



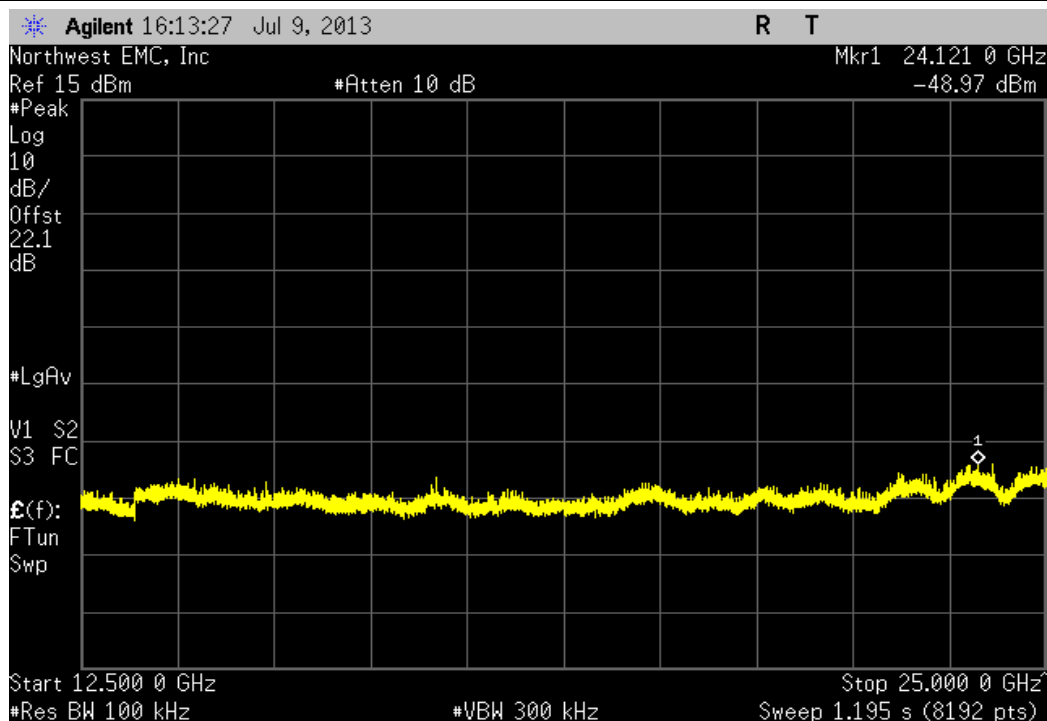
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



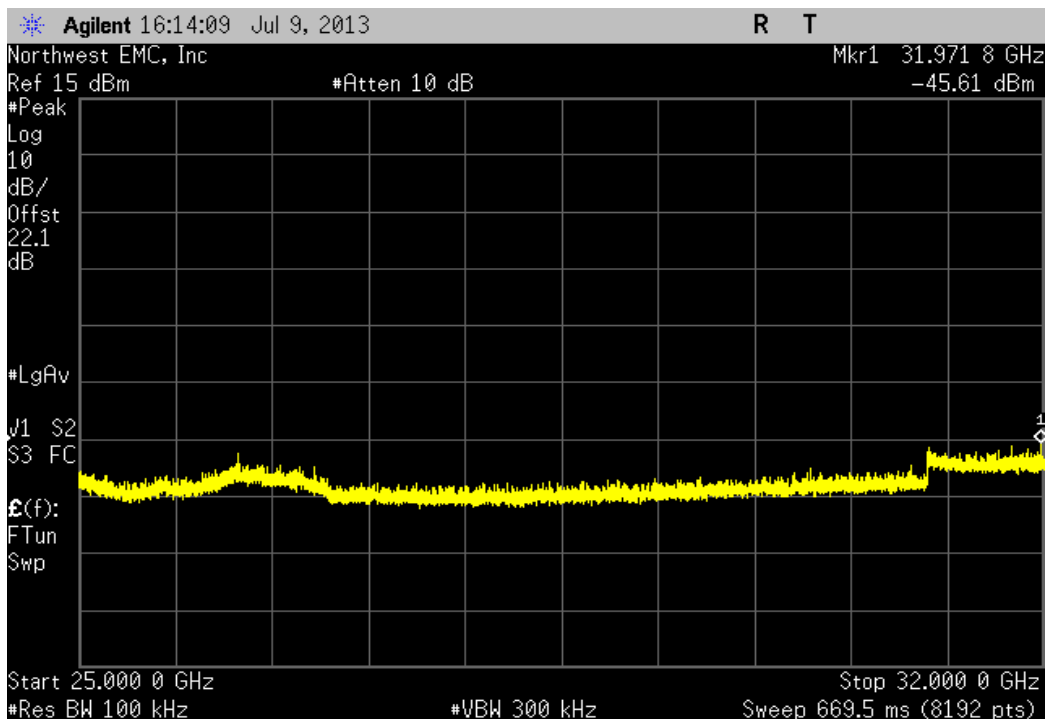
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-48.7 dBc	≤ -20 dBc	Pass	



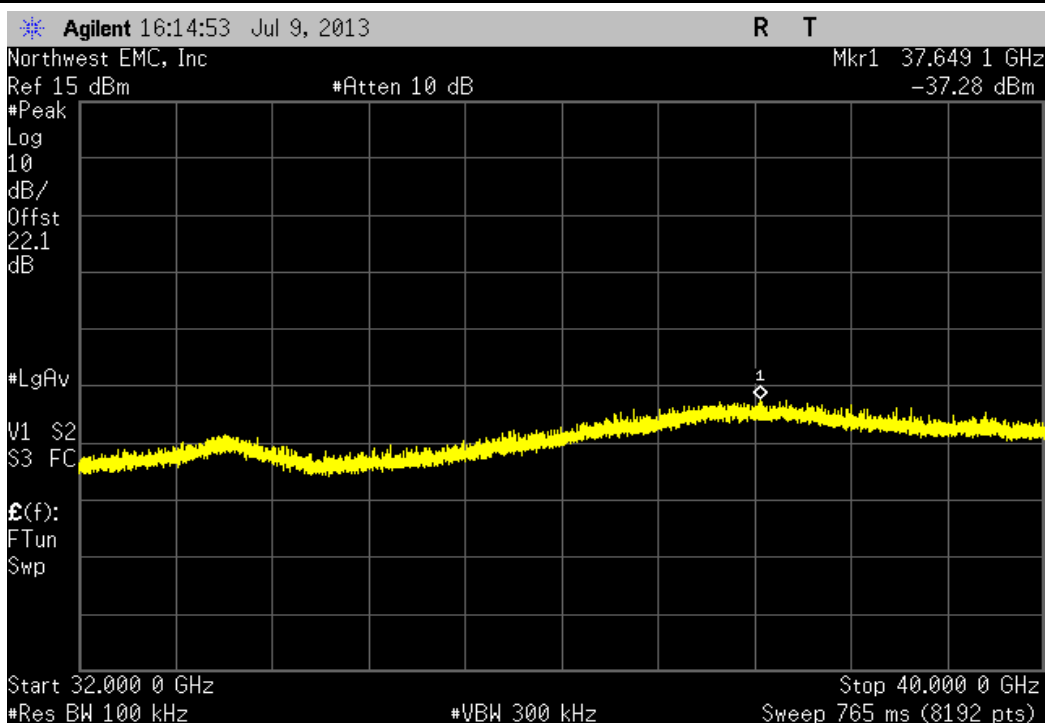
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.91 dBc	≤ -20 dBc	Pass	



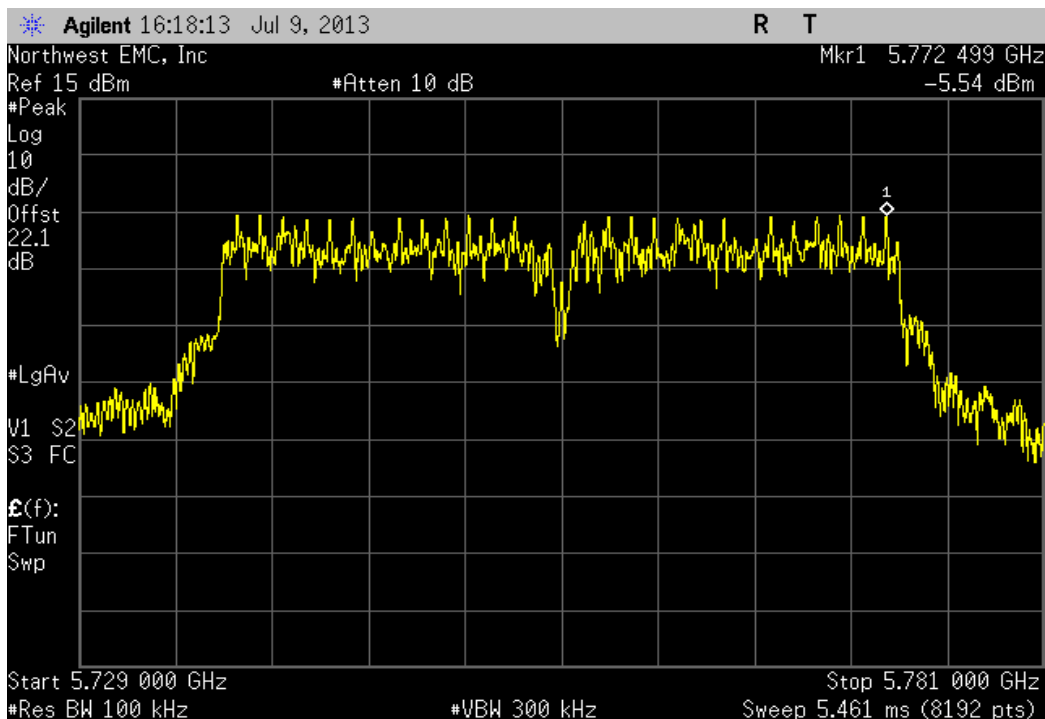
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
25 GHz - 32 GHz		-40.55 dBc	≤ -20 dBc	Pass



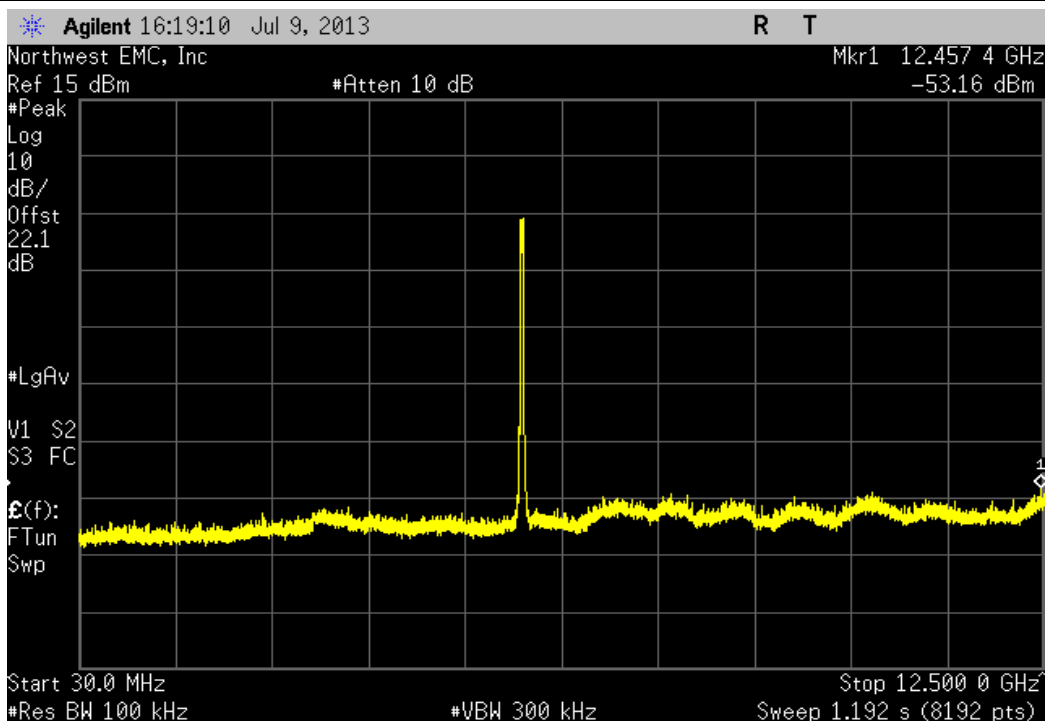
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-32.22 dBc	≤ -20 dBc	Pass



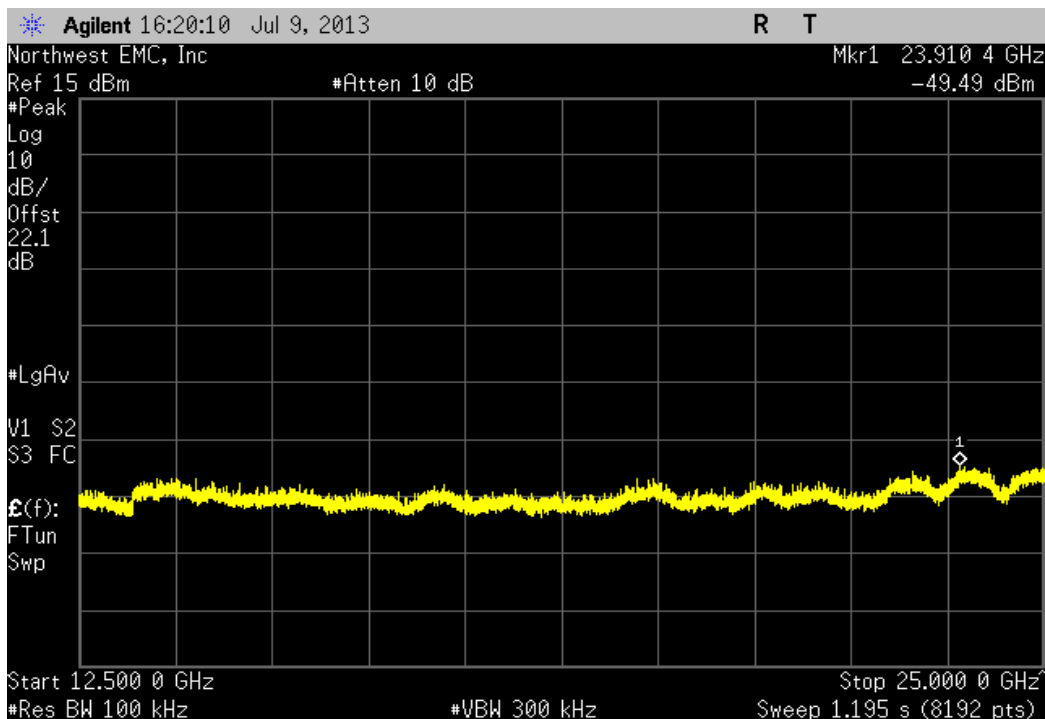
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



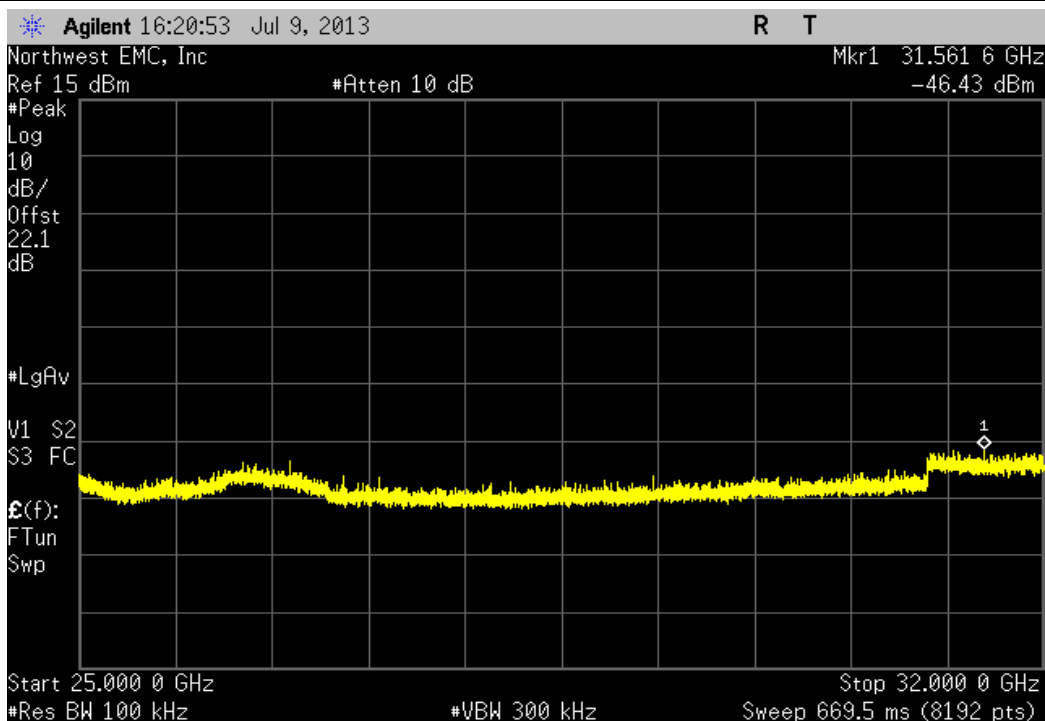
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-47.62 dBc	≤ -20 dBc	Pass



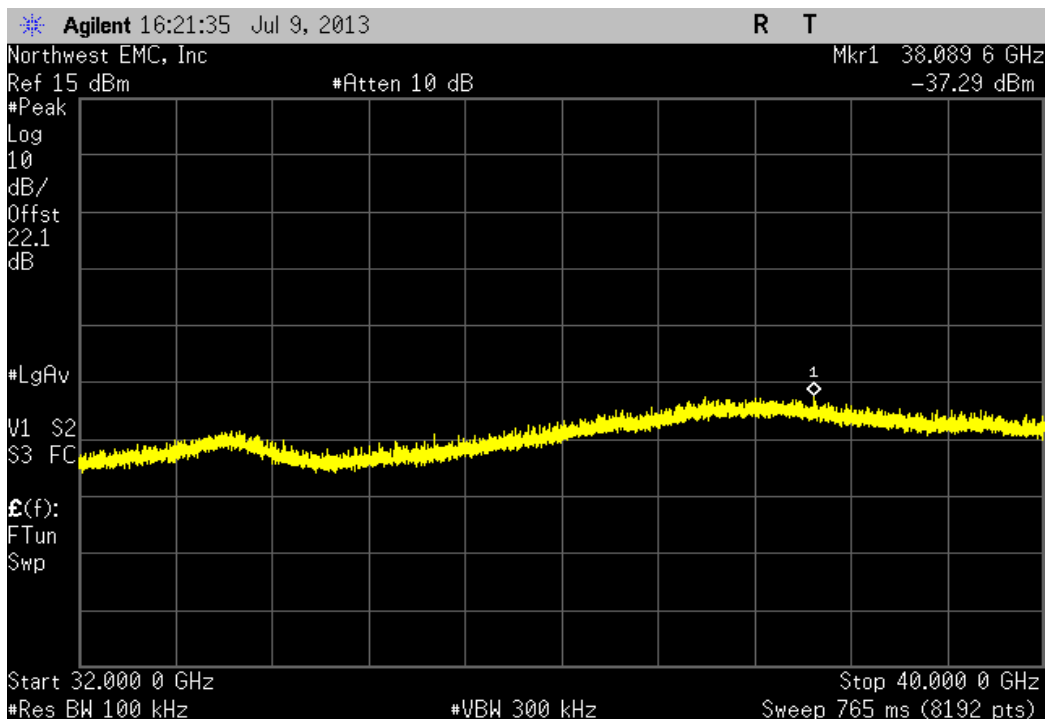
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.95 dBc	≤ -20 dBc	Pass	



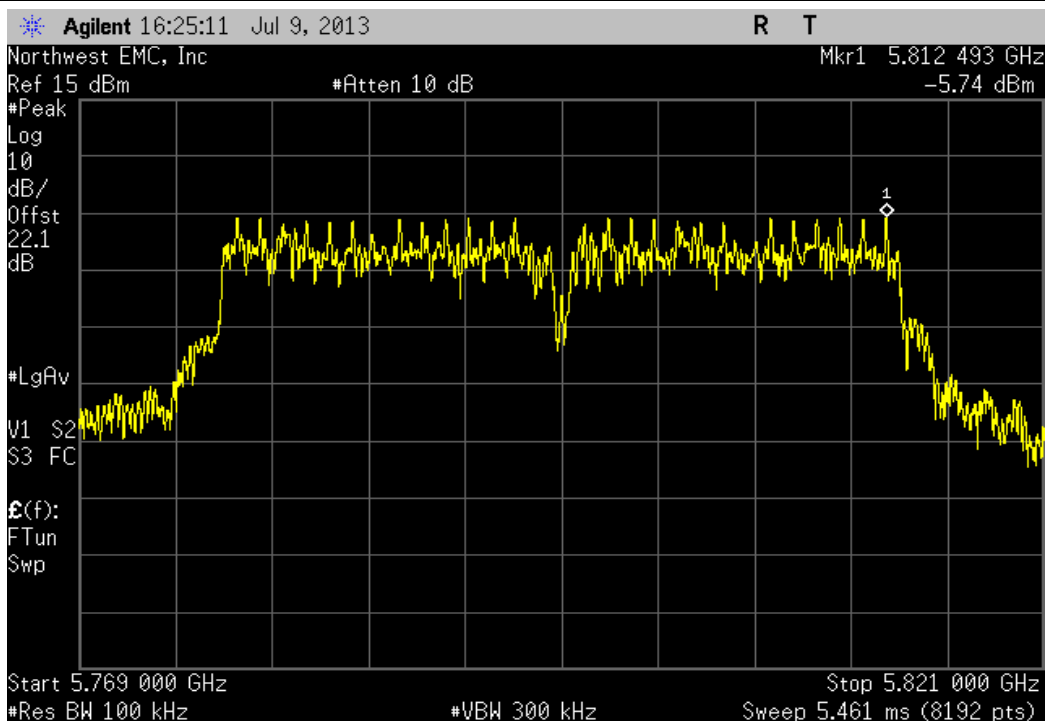
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-40.89 dBc	≤ -20 dBc	Pass	



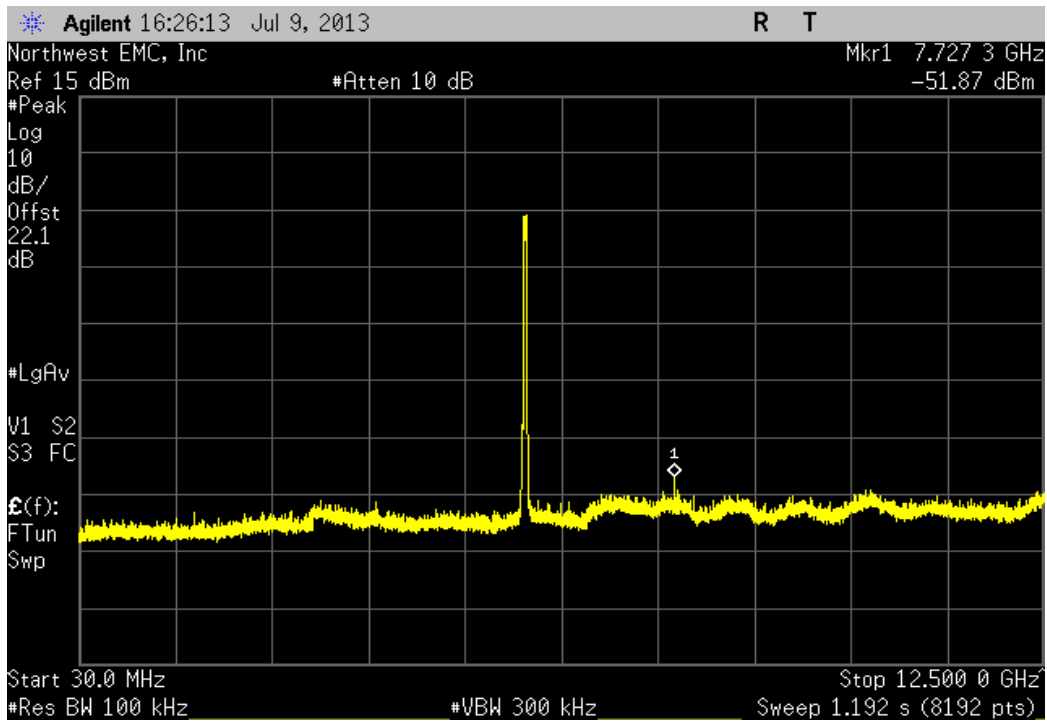
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz				
Frequency Range		Value	Limit	Result
32 GHz - 40 GHz		-31.75 dBc	≤ -20 dBc	Pass



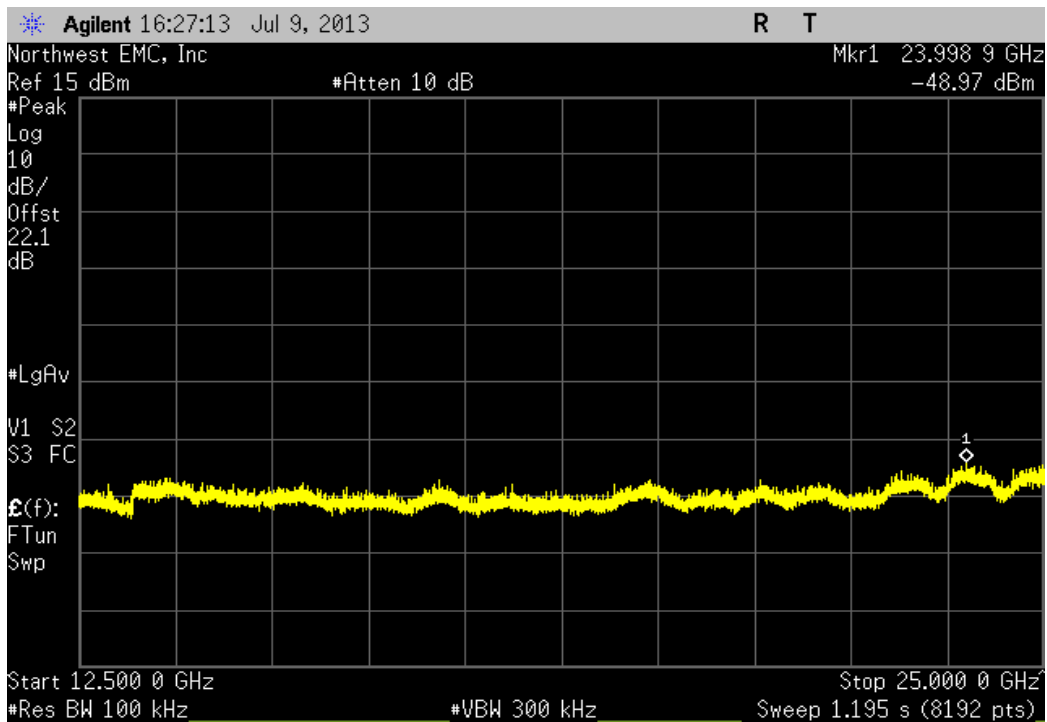
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A



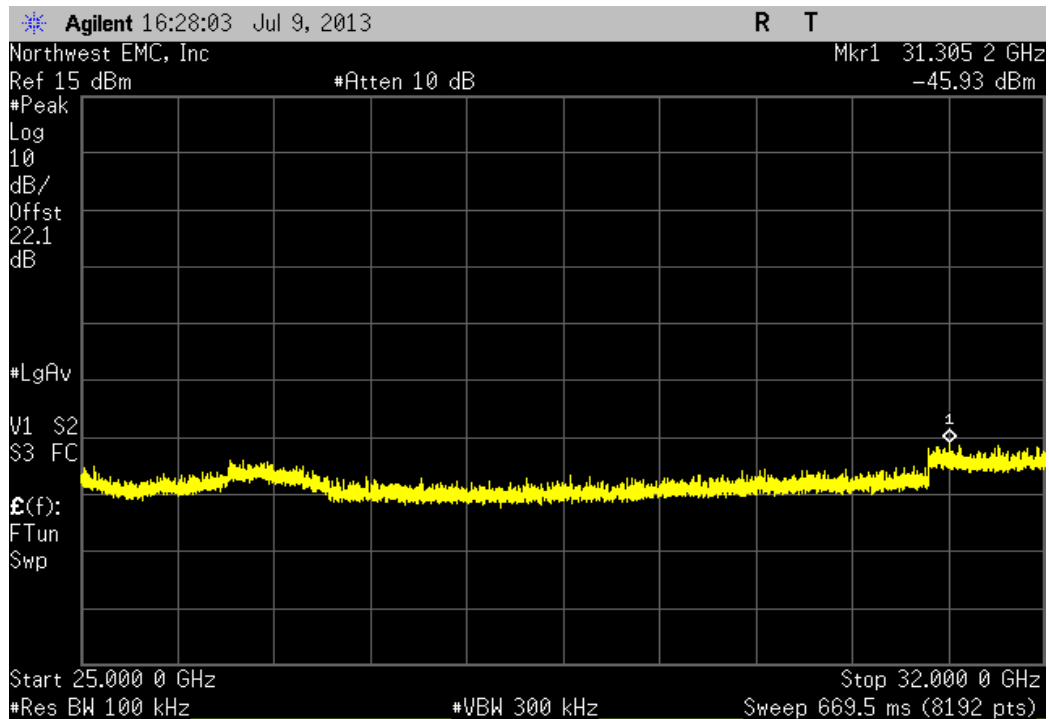
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-46.13 dBc	≤ -20 dBc	Pass	



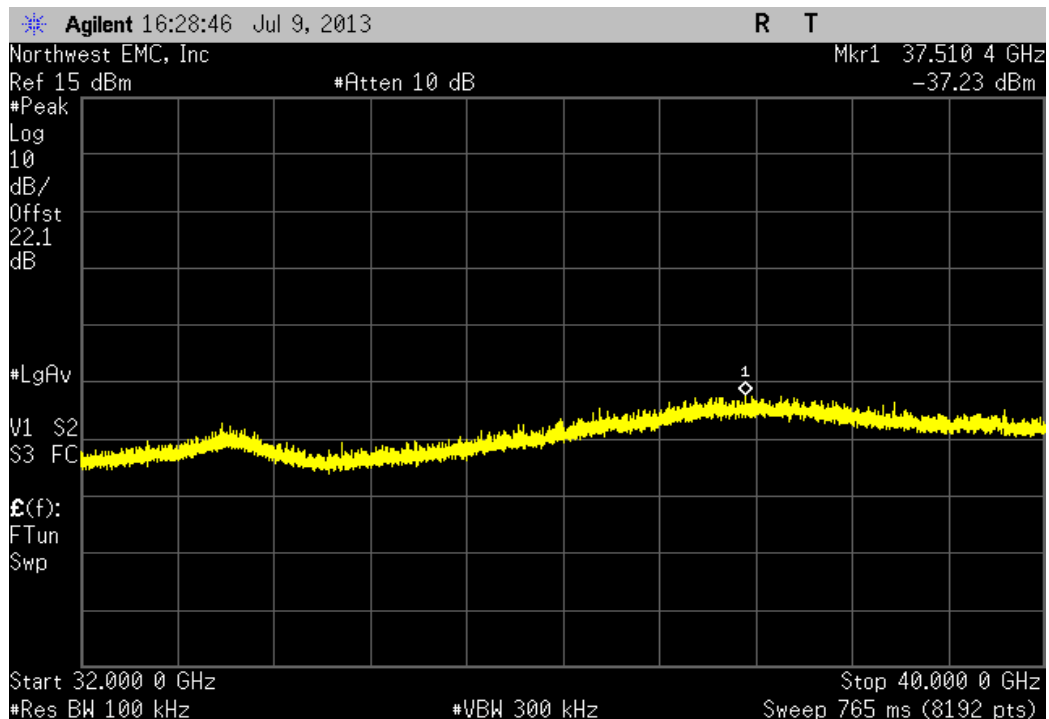
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
12.5 GHz - 25 GHz	-43.24 dBc	≤ -20 dBc	Pass	



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
25 GHz - 32 GHz	-40.19 dBc	≤ -20 dBc	Pass	



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz				
Frequency Range	Value	Limit	Result	
32 GHz - 40 GHz	-31.49 dBc	≤ -20 dBc	Pass	



Band Edge Compliance - Antenna A-B

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Fairview Microwave	SA4014-20	TKE	2/12/2013	12
Signal Generator	Agilent	N5183A	TIA	1/27/2012	36
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24
NC02 Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	7/3/2013	12

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge. DC Block was used in-line for measurements made while under test. Power levels set at 16 dBm for 2.4 GHz channels and 12 dBm for 5.7 GHz channels.



Band Edge Compliance - Antenna A-B

XMit 2013.02.28
PsaTx 2013.06.07

EUT: 1601	Work Order: MCSO1665
Serial Number: 006079632553	Date: 07/10/13
Customer: Microsoft Corporation	Temperature: 23°C
Attendees: None	Humidity: 44%
Project: None	Barometric Pres.: 1018
Tested by: Brandon Hobbs and Matthew Barnes	Power: 110VAC/60Hz
TEST SPECIFICATIONS	
FCC 15.247:2013	
ANSI C63.10:2009	
TEST METHOD	
Job Site: NC02	

COMMENTS

EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.

DEVIATIONS FROM TEST STANDARD

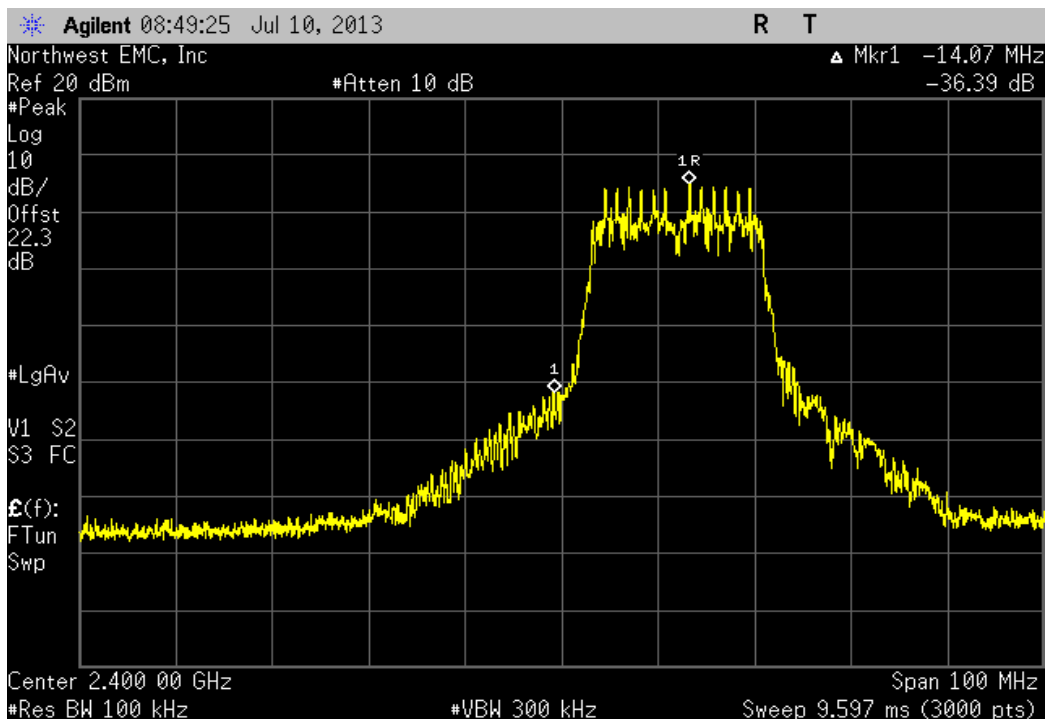
None

Configuration #	1	Signature 
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	Value	Limit	Result
Chain A			
20 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(n) MCS8			
Low Channel 1, 2412 MHz	-36.39 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-46.68 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 1, 2412 MHz	-35.17 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-46.79 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(n) MCS8			
Low Channel 149, 5745 MHz	-42.02 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-52.89 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 149, 5745 MHz	-42.96 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-53.24 dBc	≤ -20 dBc	Pass
40 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(n) MCS8			
Low Channel 1/5, 2422 MHz	-30.61 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	-32.79 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 1/5, 2422 MHz	-29.48 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	-31.34 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(n) MCS8			
Low Channel 149/153, 5745 MHz	-35.09 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5745 MHz	-51.65 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 149/153, 5745 MHz	-33.87 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5745 MHz	-51.26 dBc	≤ -20 dBc	Pass
Chain B			
20 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(n) MCS8			
Low Channel 1, 2412 MHz	-35.47 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-50.76 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 1, 2412 MHz	-36.21 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-50.72 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(n) MCS8			
Low Channel 149, 5745 MHz	-44.75 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-53.22 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 149, 5745 MHz	-46.18 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-53.3 dBc	≤ -20 dBc	Pass
40 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(n) MCS8			
Low Channel 1/5, 2422 MHz	-34.29 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	-36.96 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 1/5, 2422 MHz	-36.26 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	-35.65 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(n) MCS8			
Low Channel 149/153, 5745 MHz	-37.42 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5745 MHz	-51.79 dBc	≤ -20 dBc	Pass
802.11(n) MCS15			
Low Channel 149/153, 5745 MHz	-37.24 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5745 MHz	-48.59 dBc	≤ -20 dBc	Pass

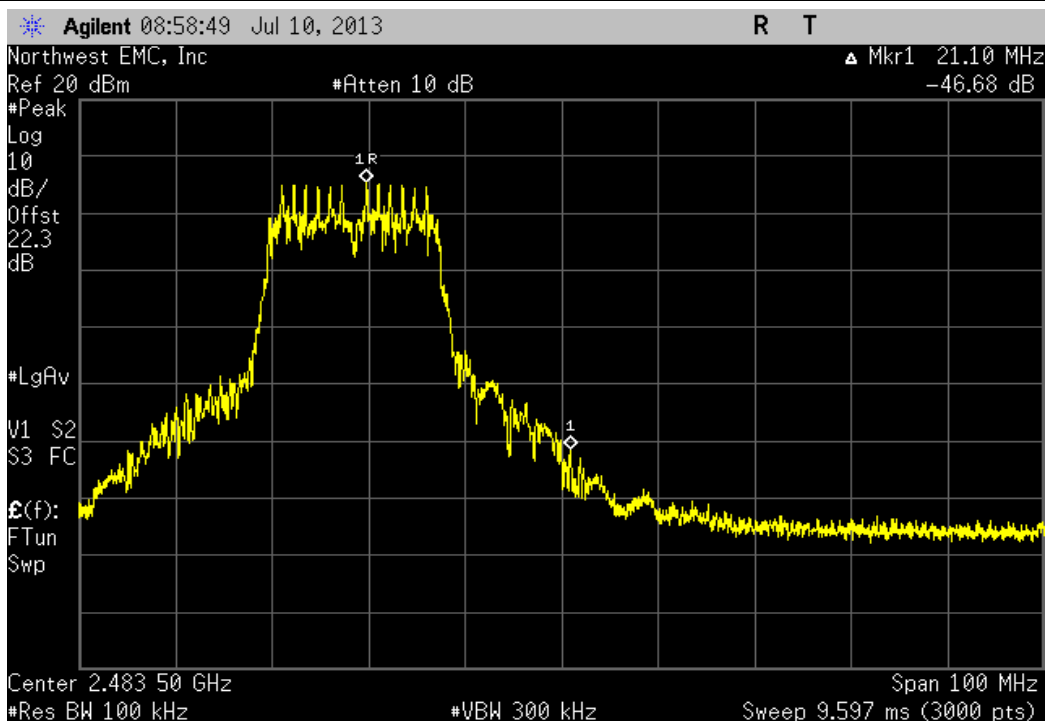
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz

Value	Limit	Result
-36.39 dBc	≤ -20 dBc	Pass



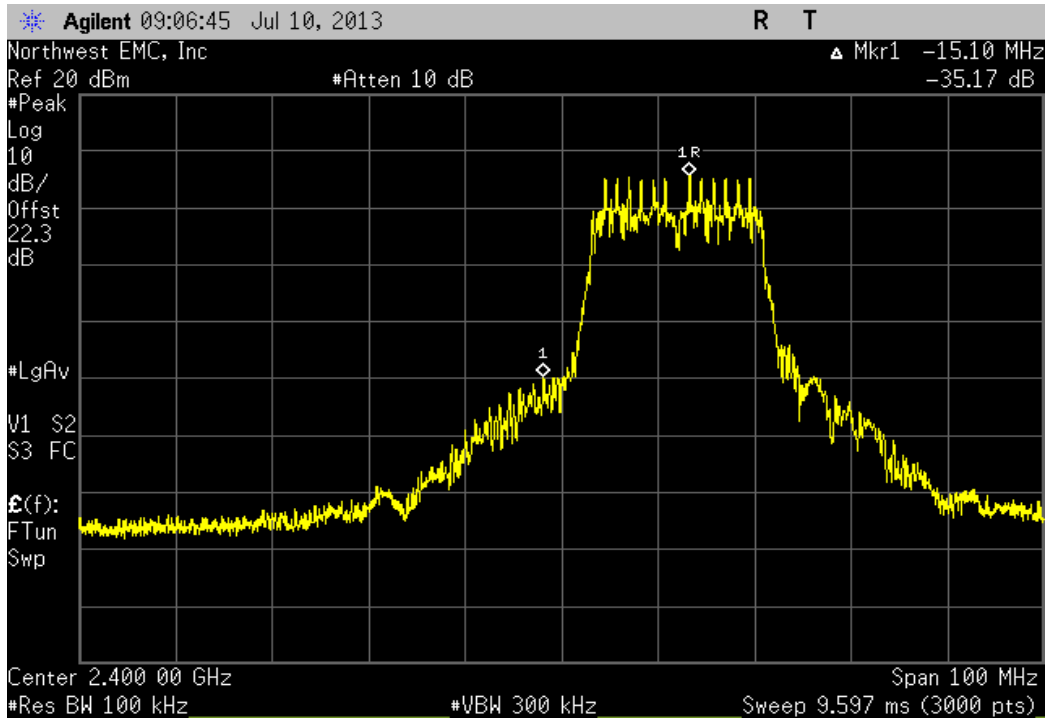
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz

Value	Limit	Result
-46.68 dBc	≤ -20 dBc	Pass



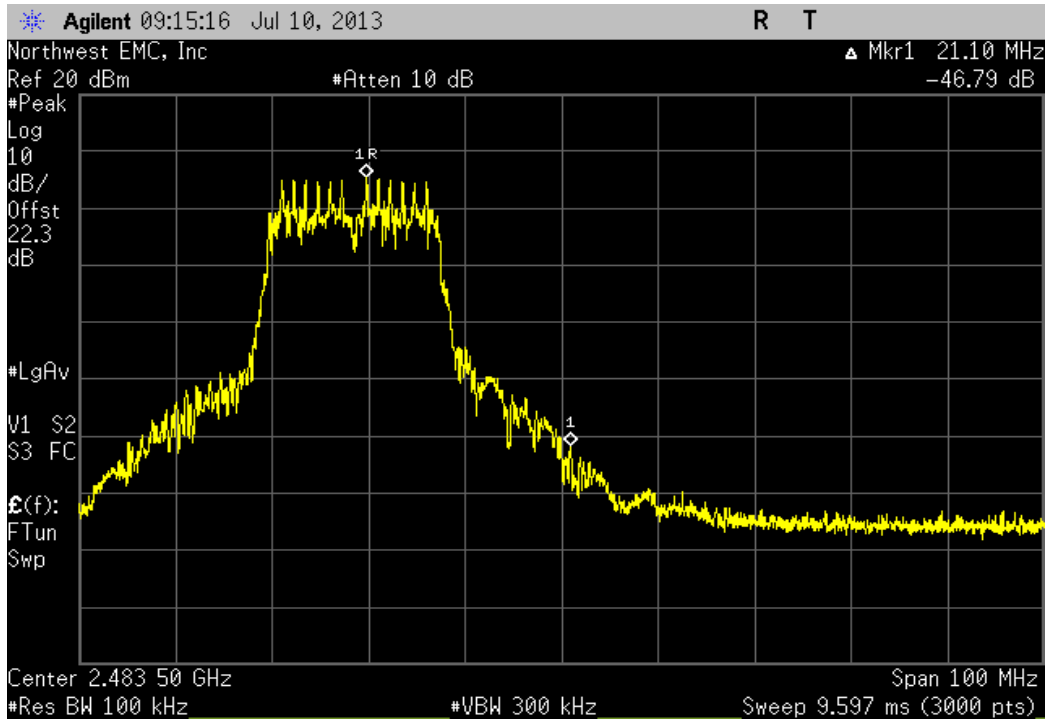
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz

Value	Limit	Result
-35.17 dBc	≤ -20 dBc	Pass



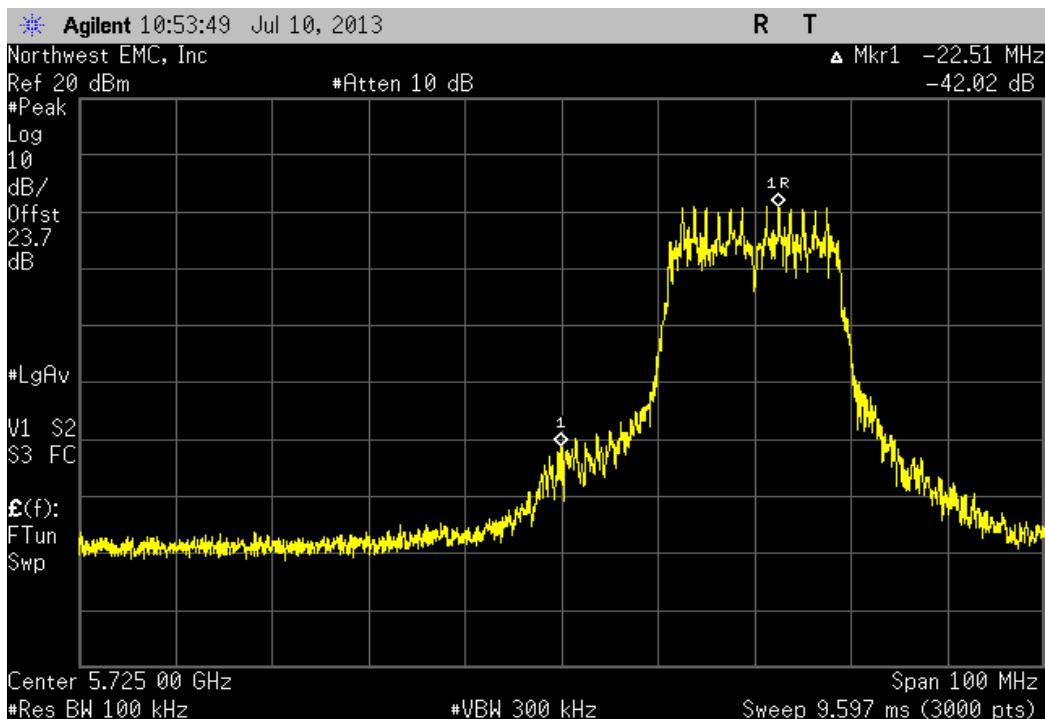
Chain A, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz

Value	Limit	Result
-46.79 dBc	≤ -20 dBc	Pass



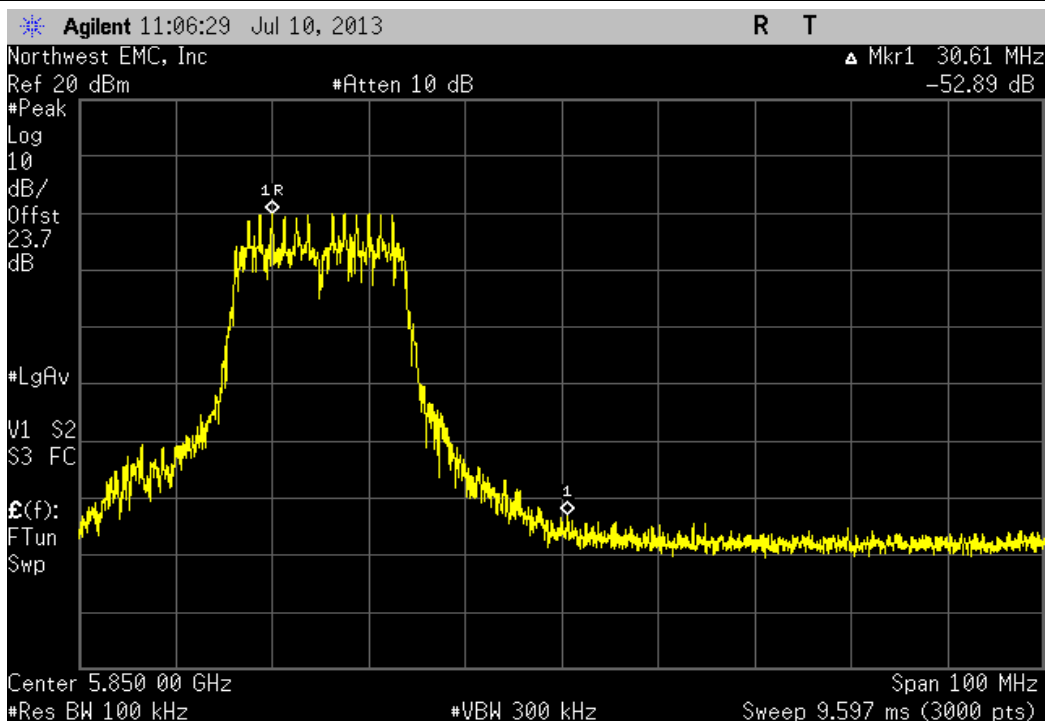
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz

Value	Limit	Result
-42.02 dBc	≤ -20 dBc	Pass



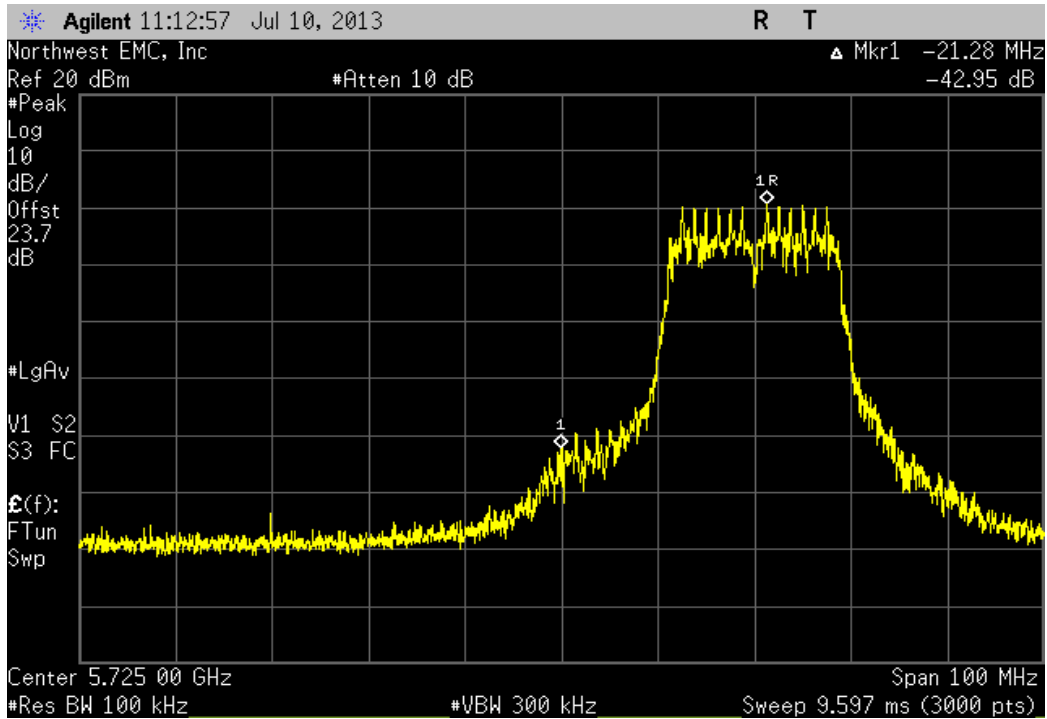
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz

Value	Limit	Result
-52.89 dBc	≤ -20 dBc	Pass



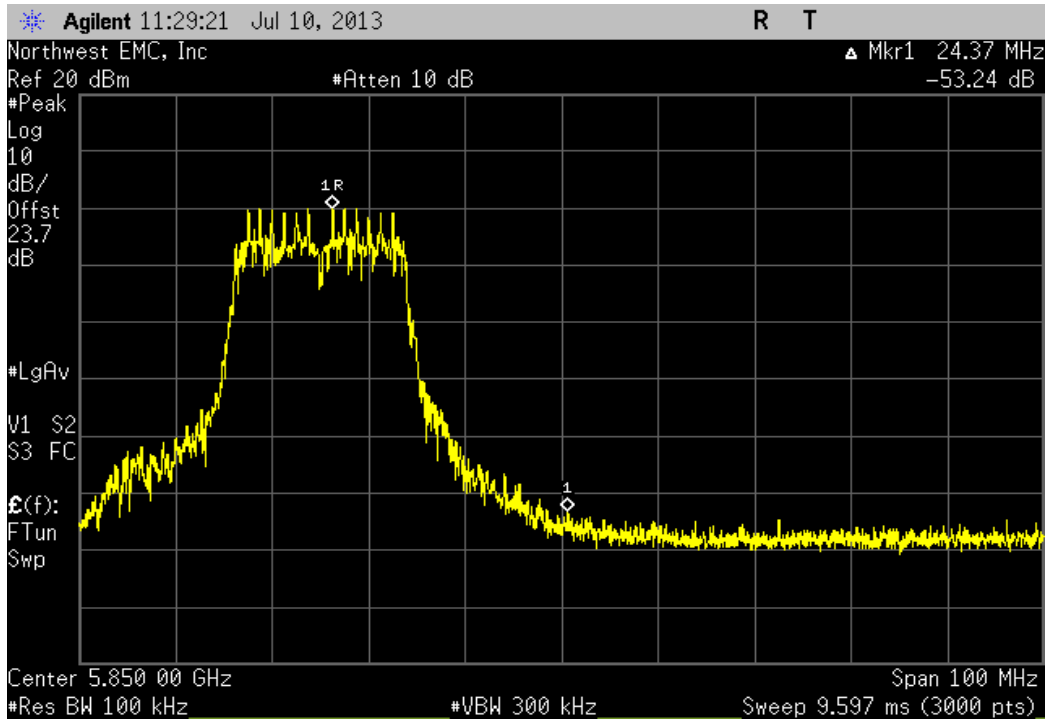
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz

Value	Limit	Result
-42.96 dBc	≤ -20 dBc	Pass



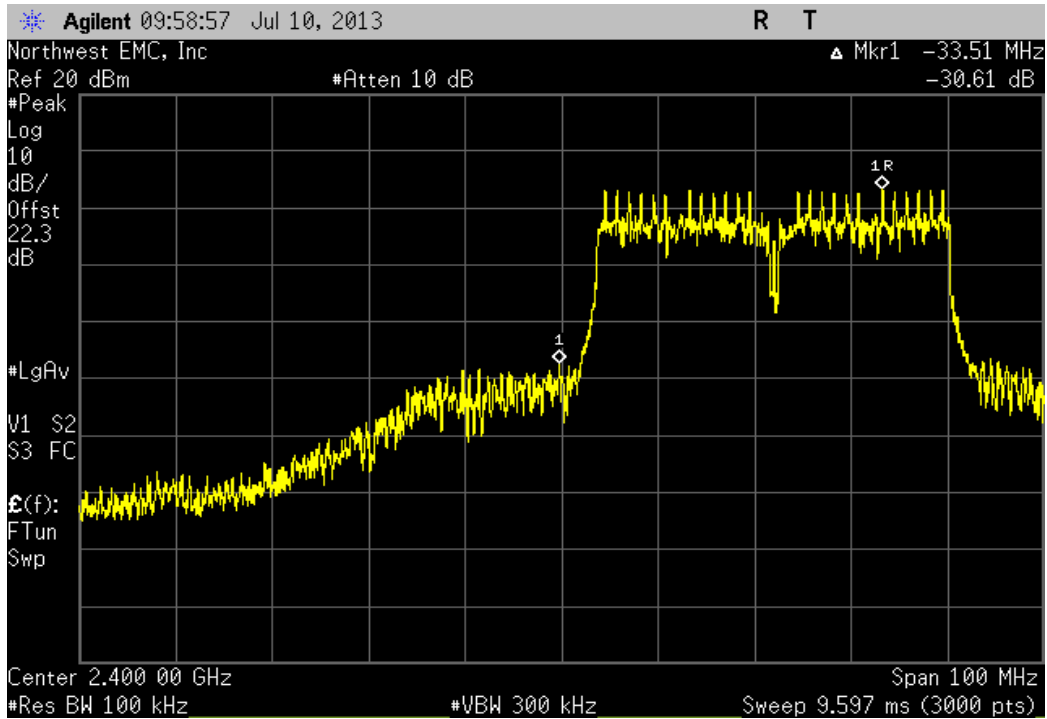
Chain A, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz

Value	Limit	Result
-53.24 dBc	≤ -20 dBc	Pass



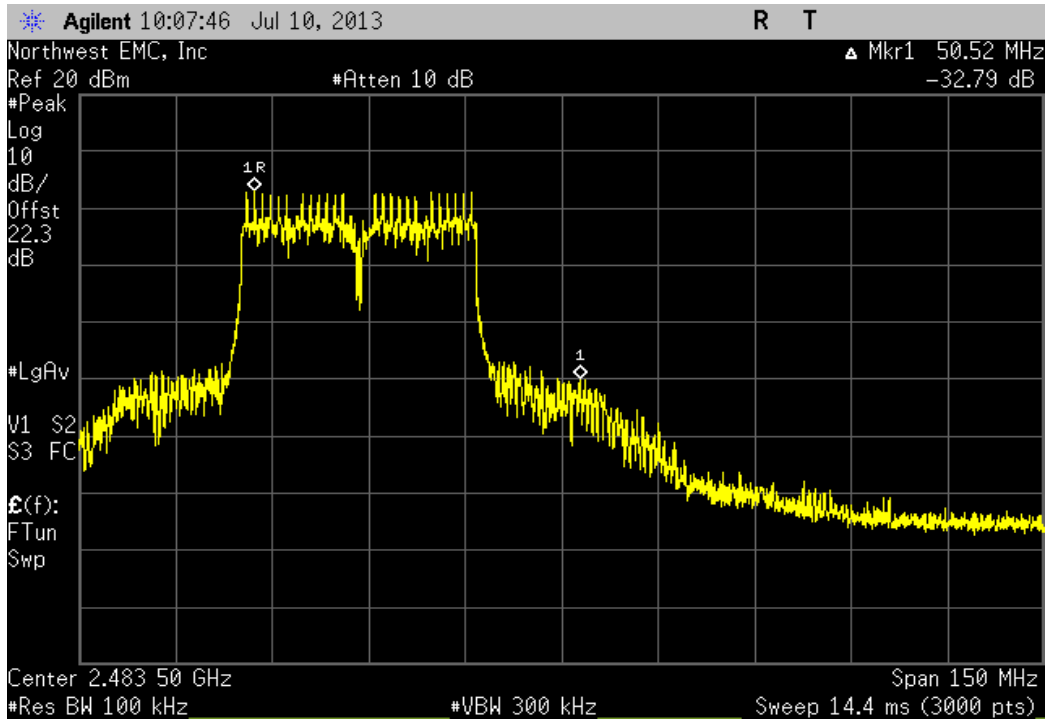
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-30.61 dBc	≤ -20 dBc	Pass



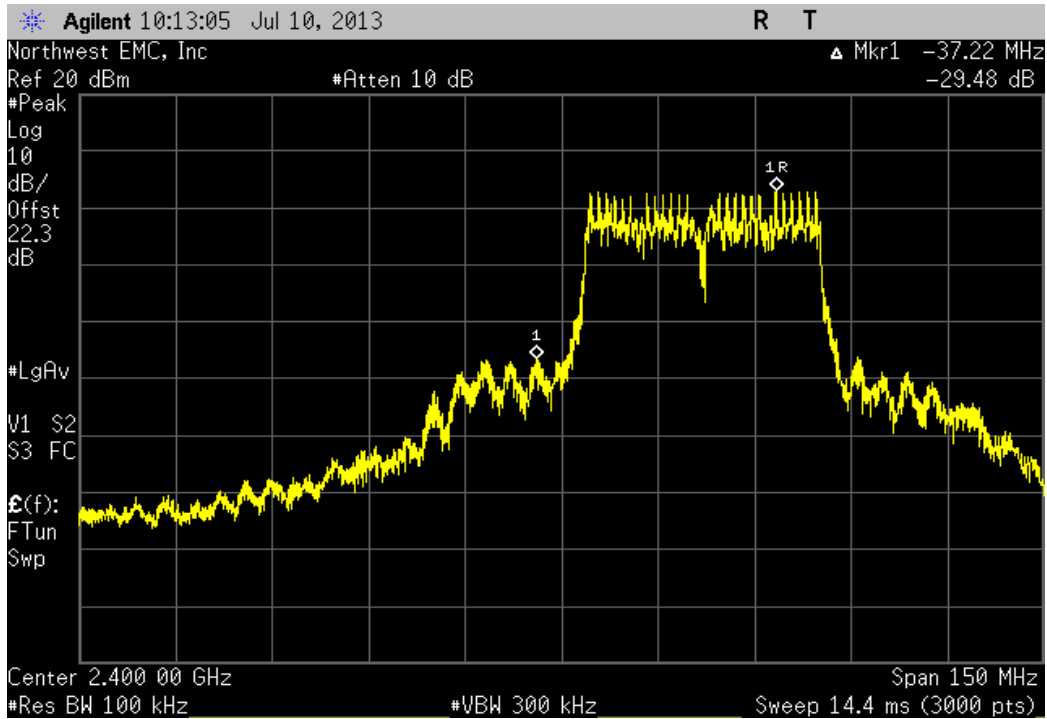
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz

Value	Limit	Result
-32.79 dBc	≤ -20 dBc	Pass



Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-29.48 dBc	≤ -20 dBc	Pass



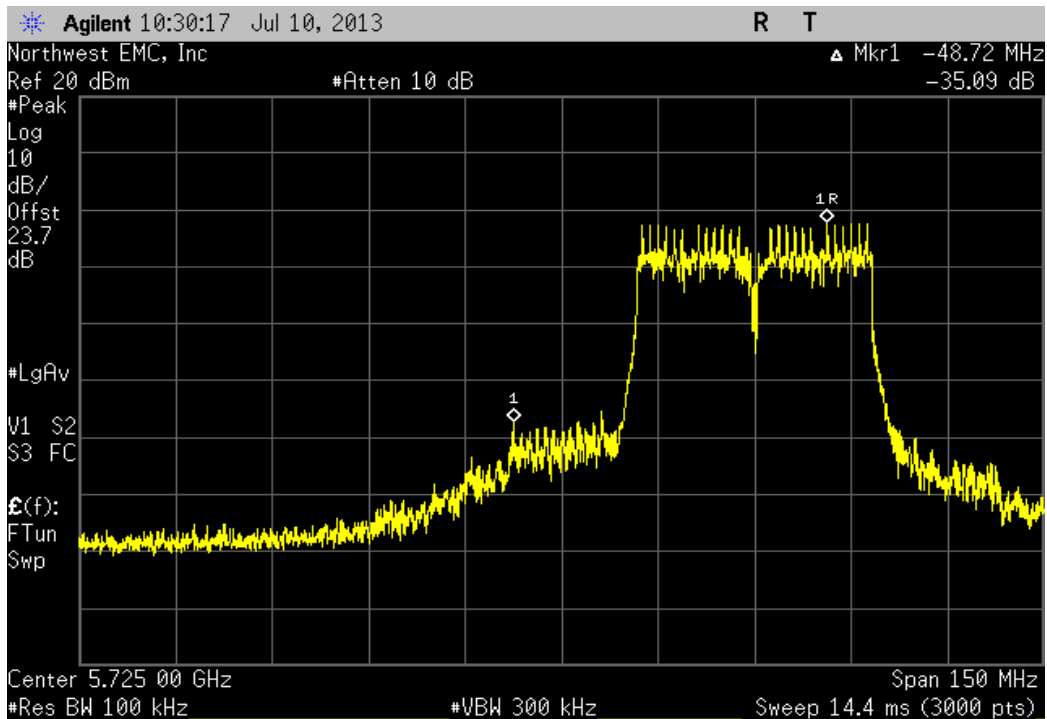
Chain A, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz

Value	Limit	Result
-31.34 dBc	≤ -20 dBc	Pass



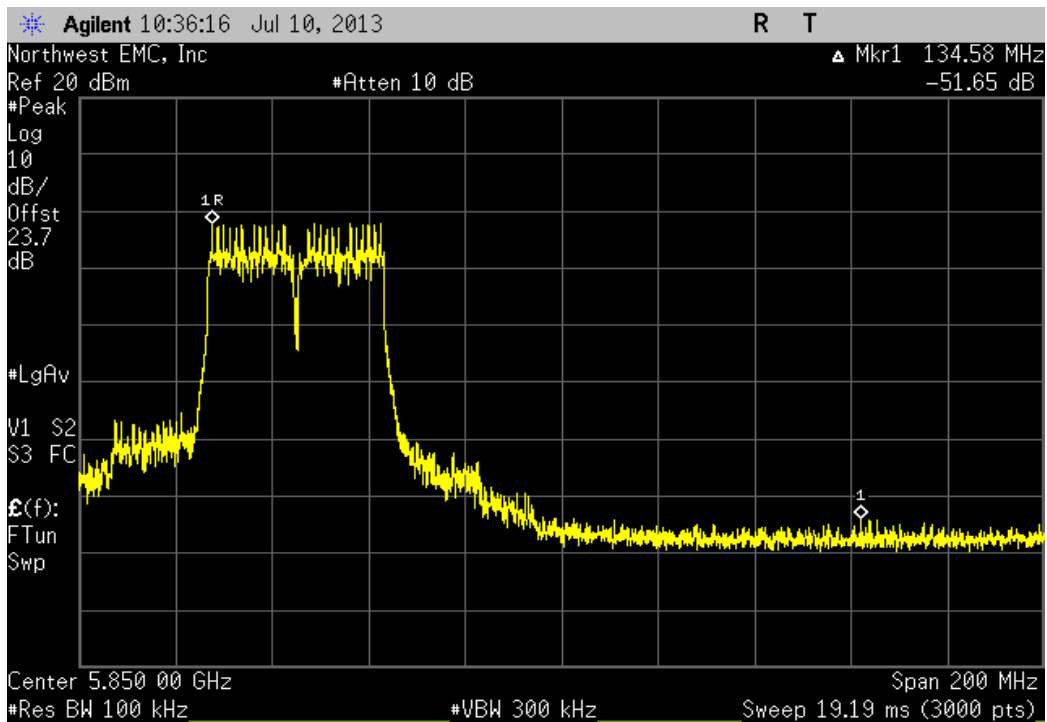
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz

Value	Limit	Result
-35.09 dBc	≤ -20 dBc	Pass



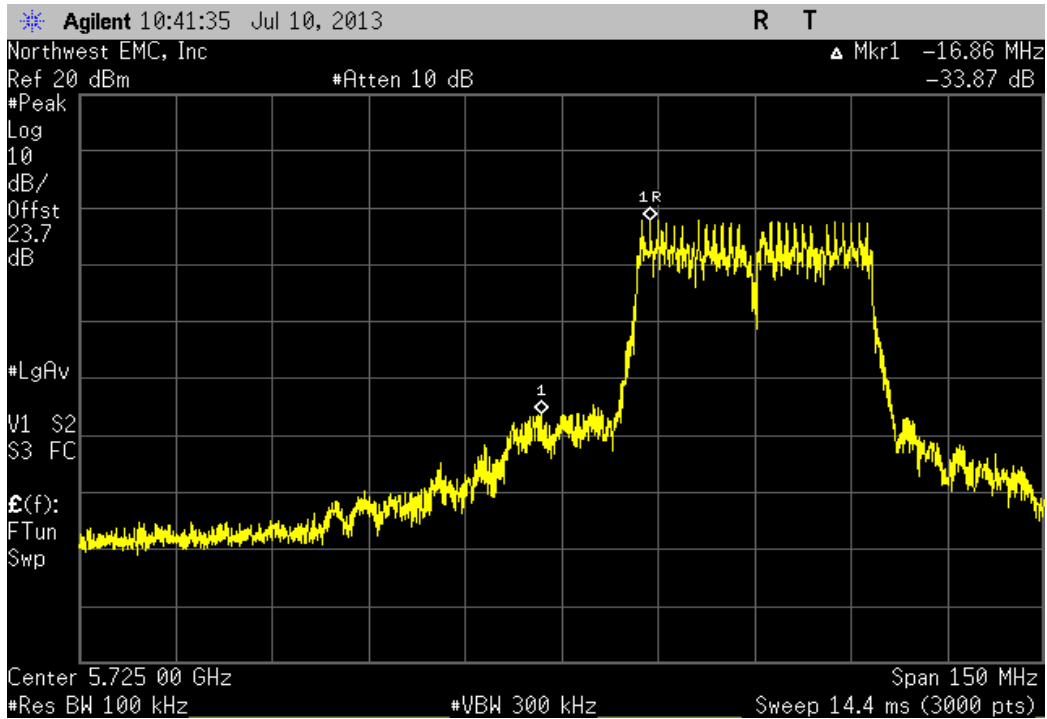
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz

Value	Limit	Result
-51.65 dBc	≤ -20 dBc	Pass



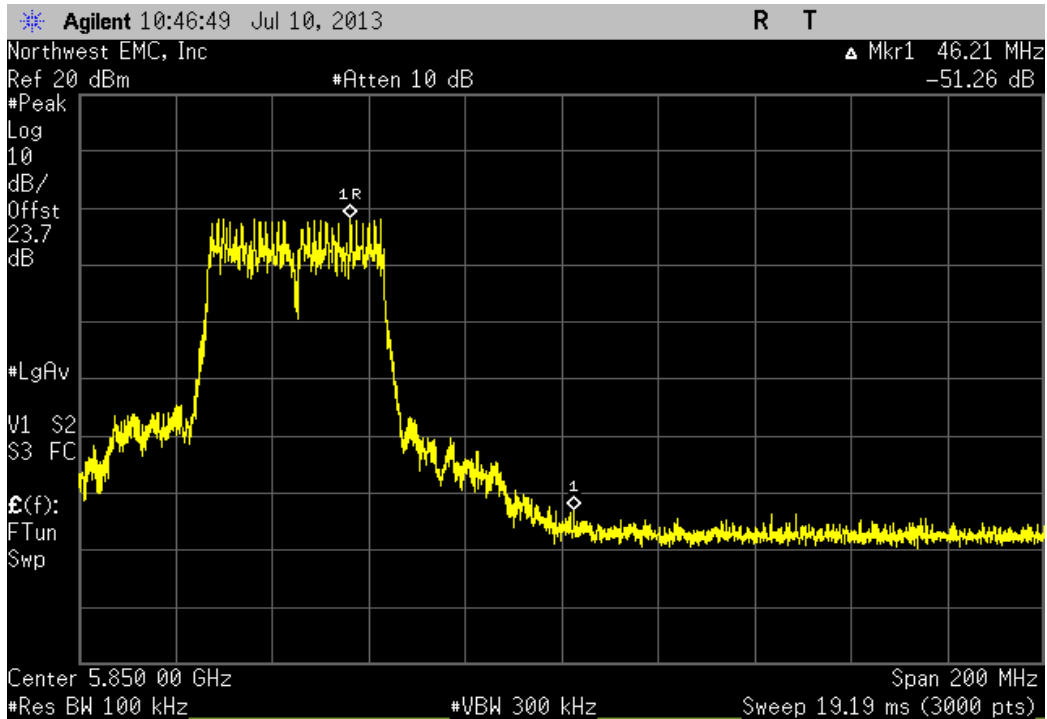
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz

Value	Limit	Result
-33.87 dBc	≤ -20 dBc	Pass



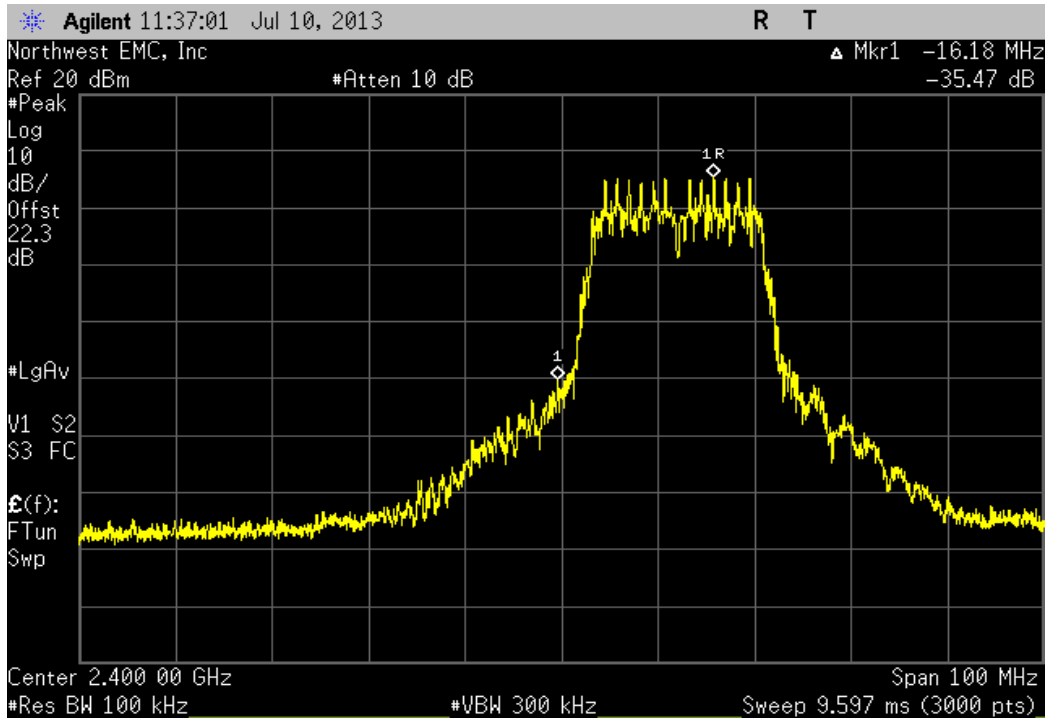
Chain A, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz

Value	Limit	Result
-51.26 dBc	≤ -20 dBc	Pass



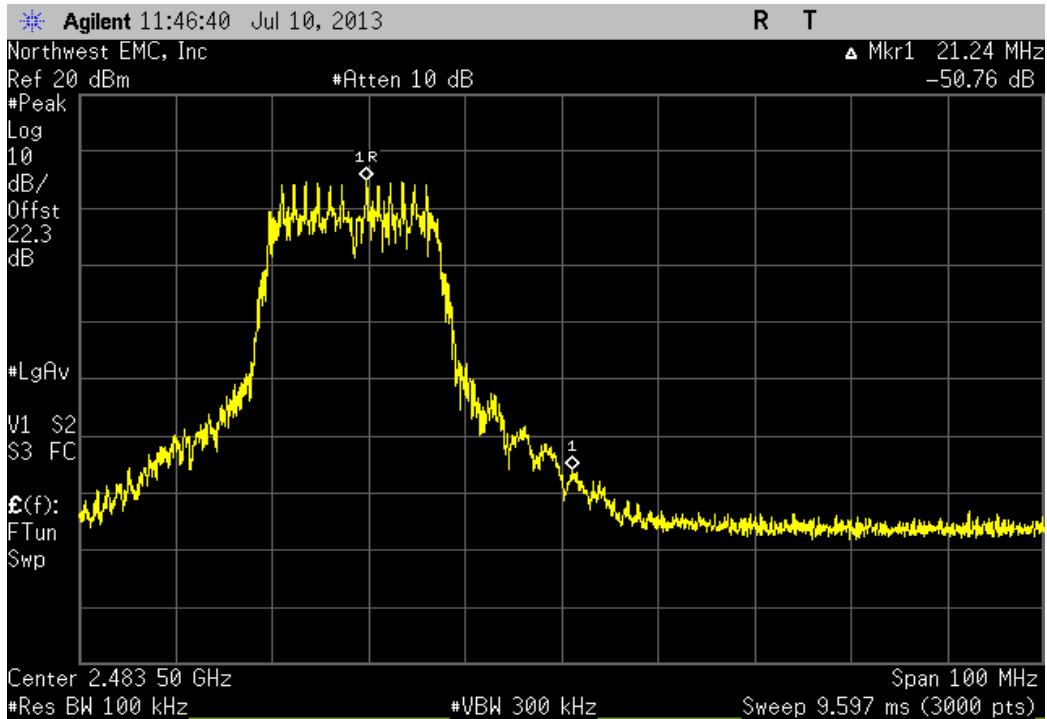
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1, 2412 MHz

Value	Limit	Result
-35.47 dBc	≤ -20 dBc	Pass



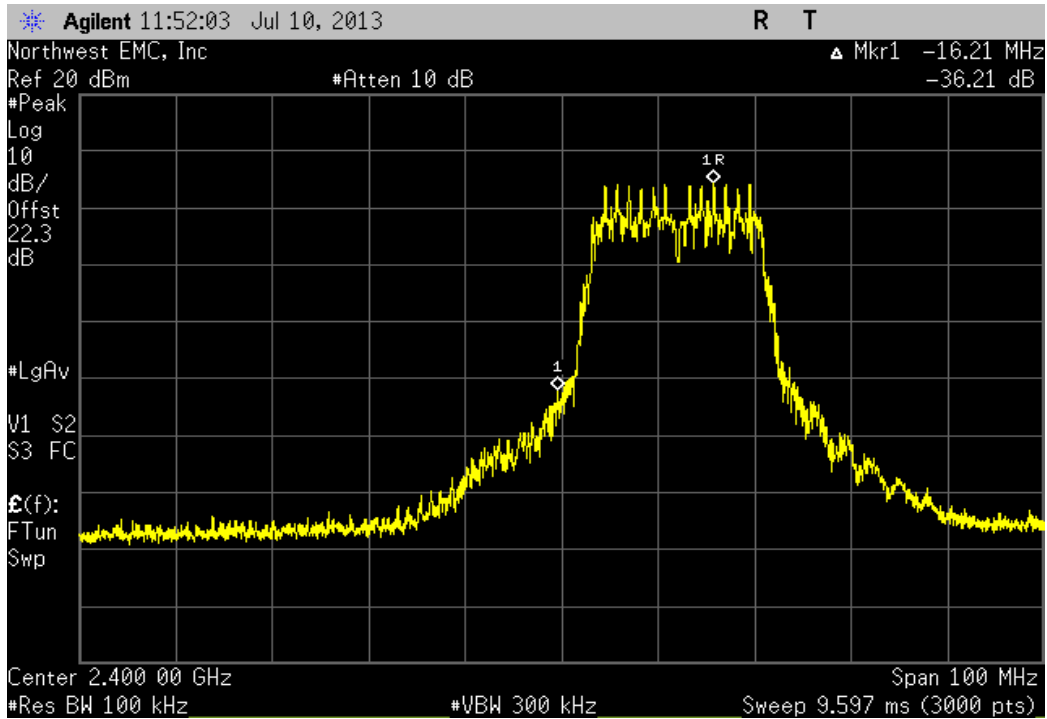
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 11, 2462 MHz

Value	Limit	Result
-50.76 dBc	≤ -20 dBc	Pass



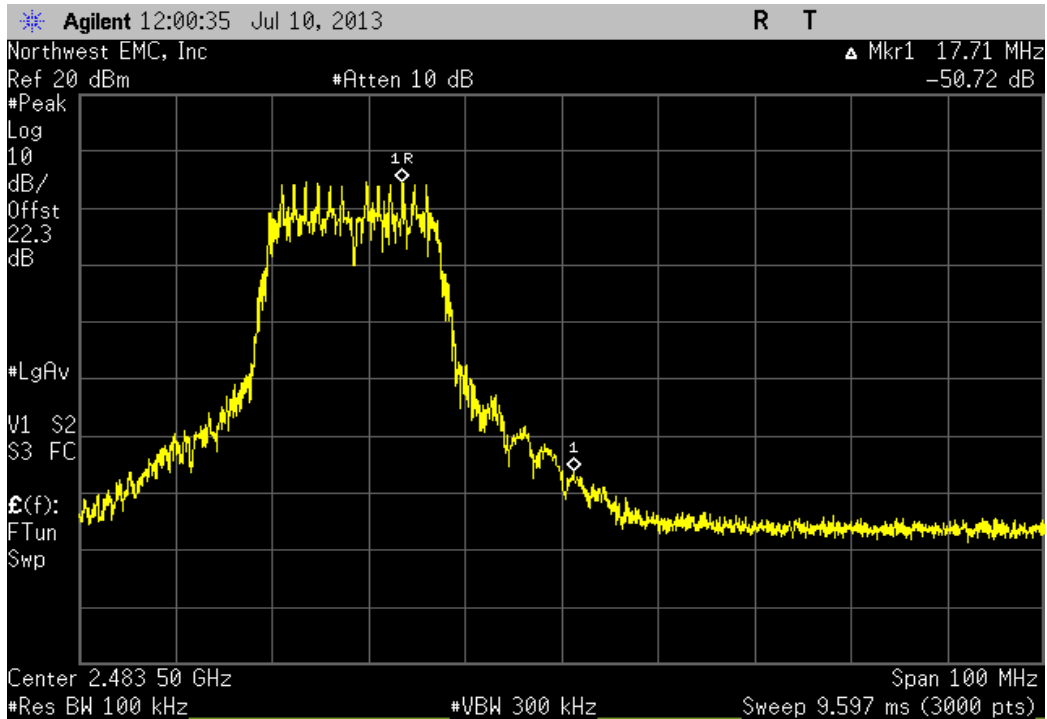
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1, 2412 MHz

Value	Limit	Result
-36.21 dBc	≤ -20 dBc	Pass



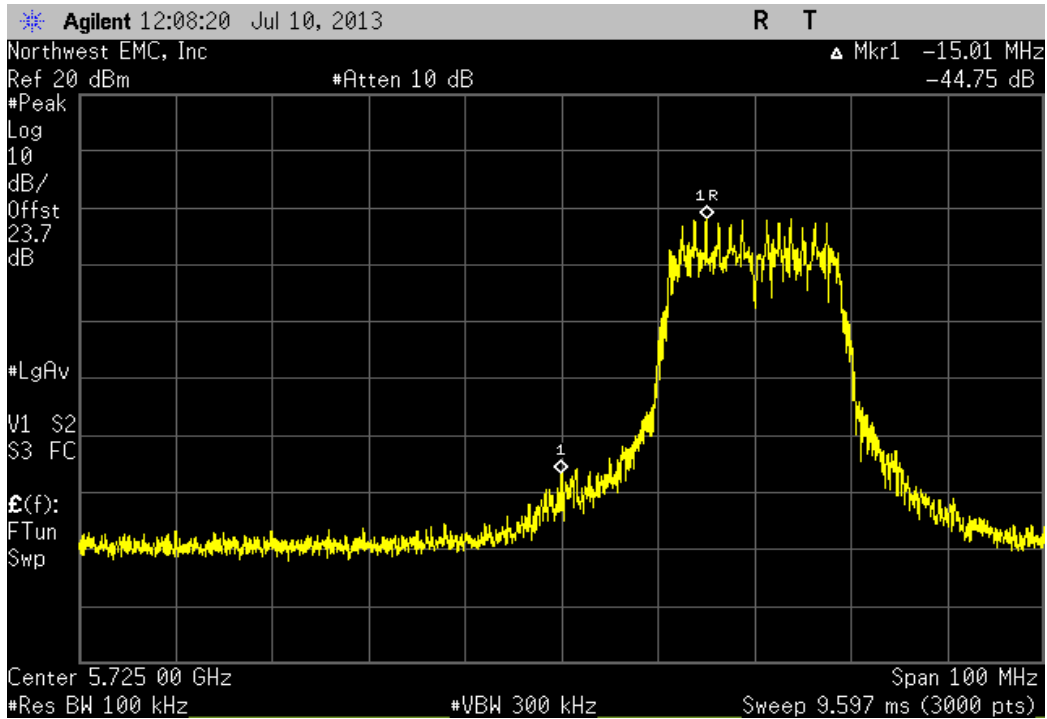
Chain B, 20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 11, 2462 MHz

Value	Limit	Result
-50.72 dBc	≤ -20 dBc	Pass



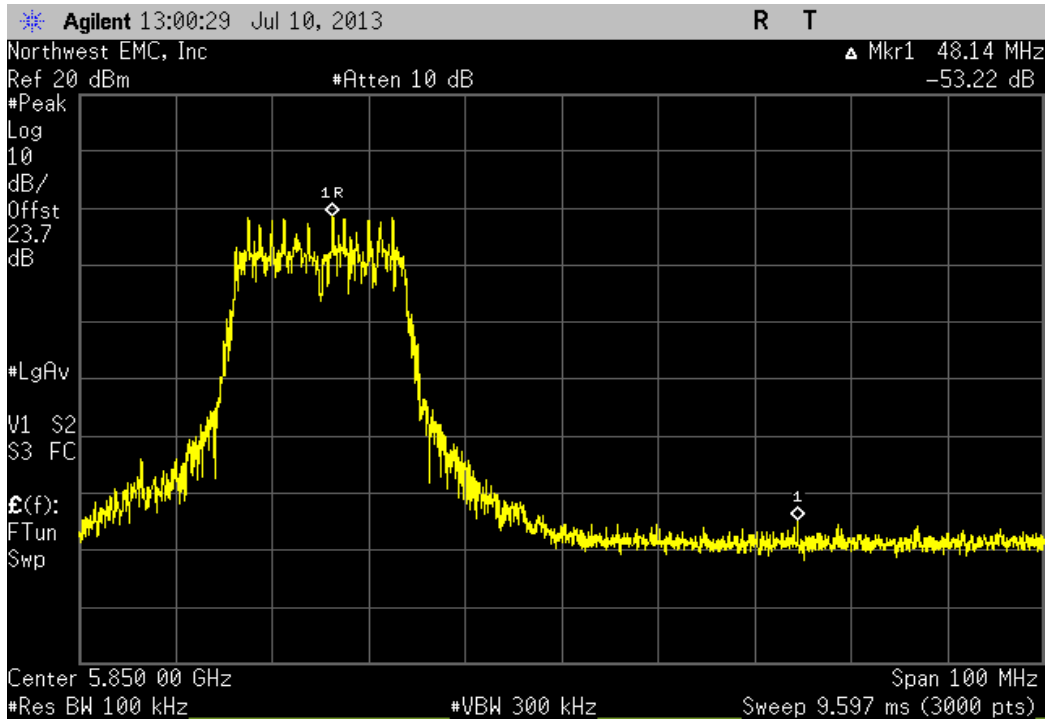
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149, 5745 MHz

Value	Limit	Result
-44.75 dBc	≤ -20 dBc	Pass



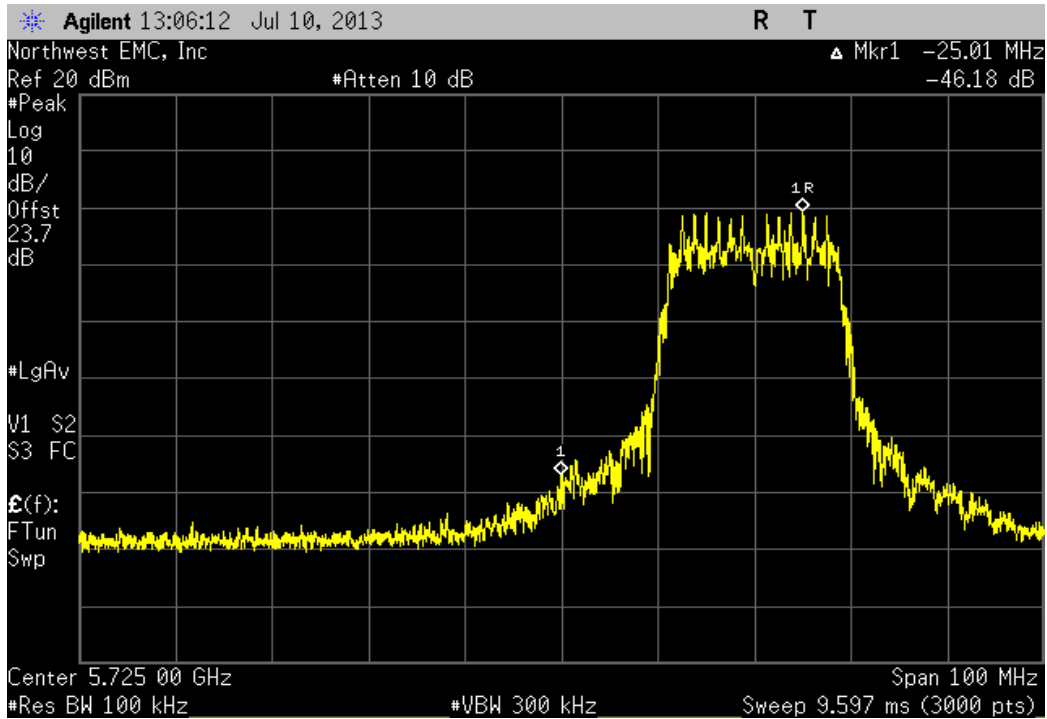
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 165, 5825 MHz

Value	Limit	Result
-53.22 dBc	≤ -20 dBc	Pass



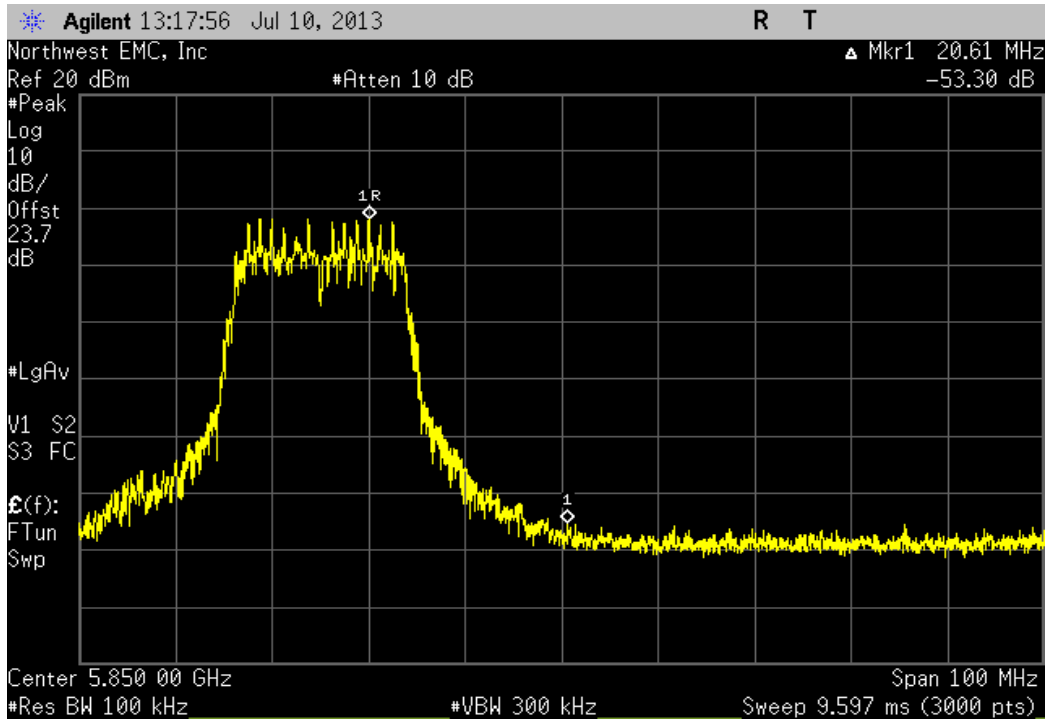
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149, 5745 MHz

Value	Limit	Result
-46.18 dBc	≤ -20 dBc	Pass



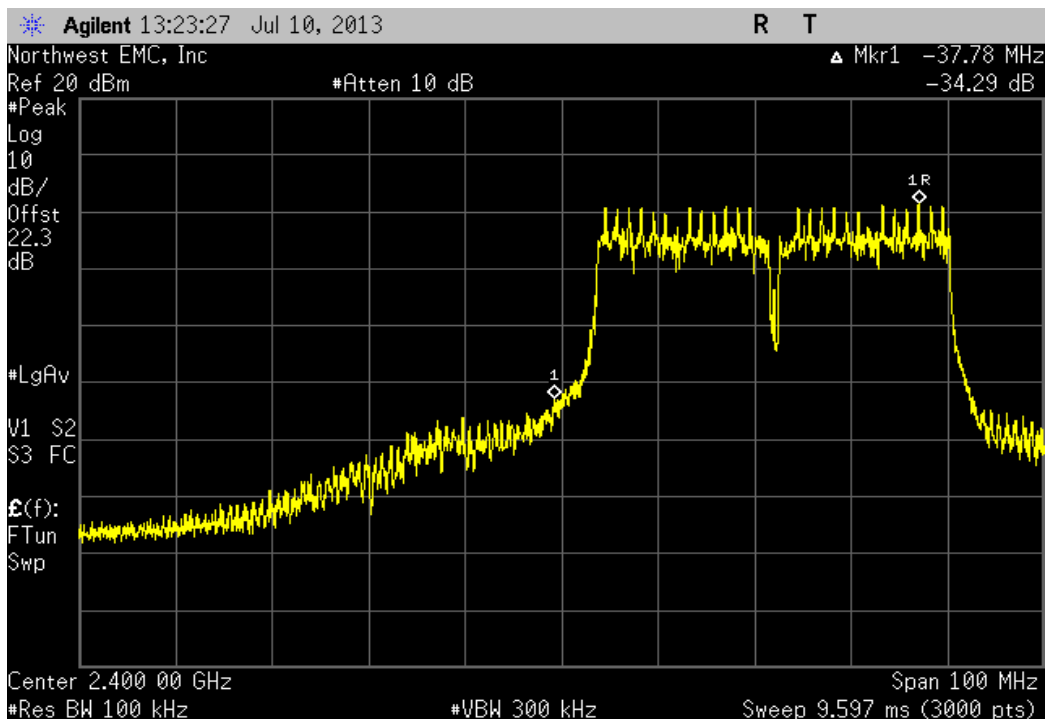
Chain B, 20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 165, 5825 MHz

Value	Limit	Result
-53.3 dBc	≤ -20 dBc	Pass



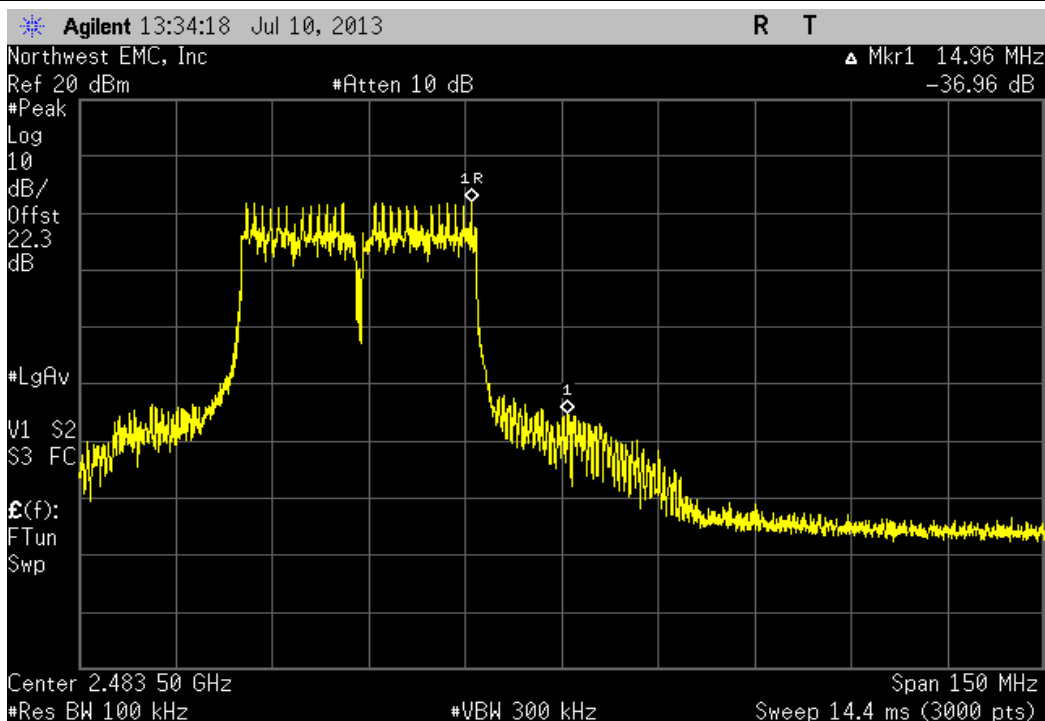
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-34.29 dBc	≤ -20 dBc	Pass



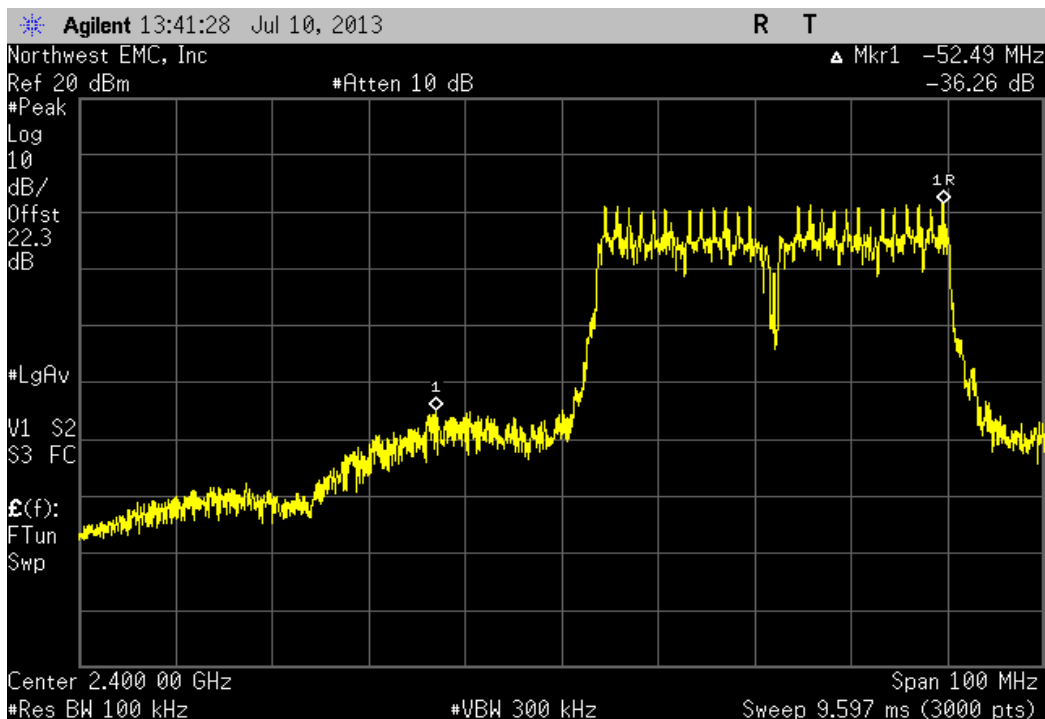
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS8, High Channel 7/11, 2452 MHz

Value	Limit	Result
-36.96 dBc	≤ -20 dBc	Pass



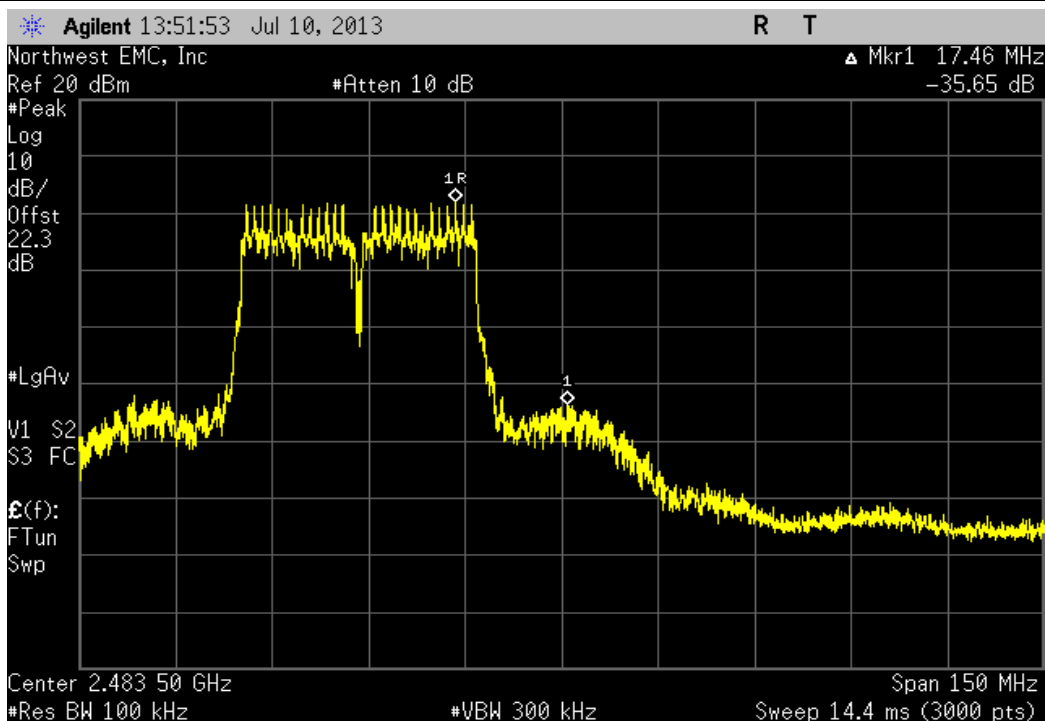
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-36.26 dBc	≤ -20 dBc	Pass



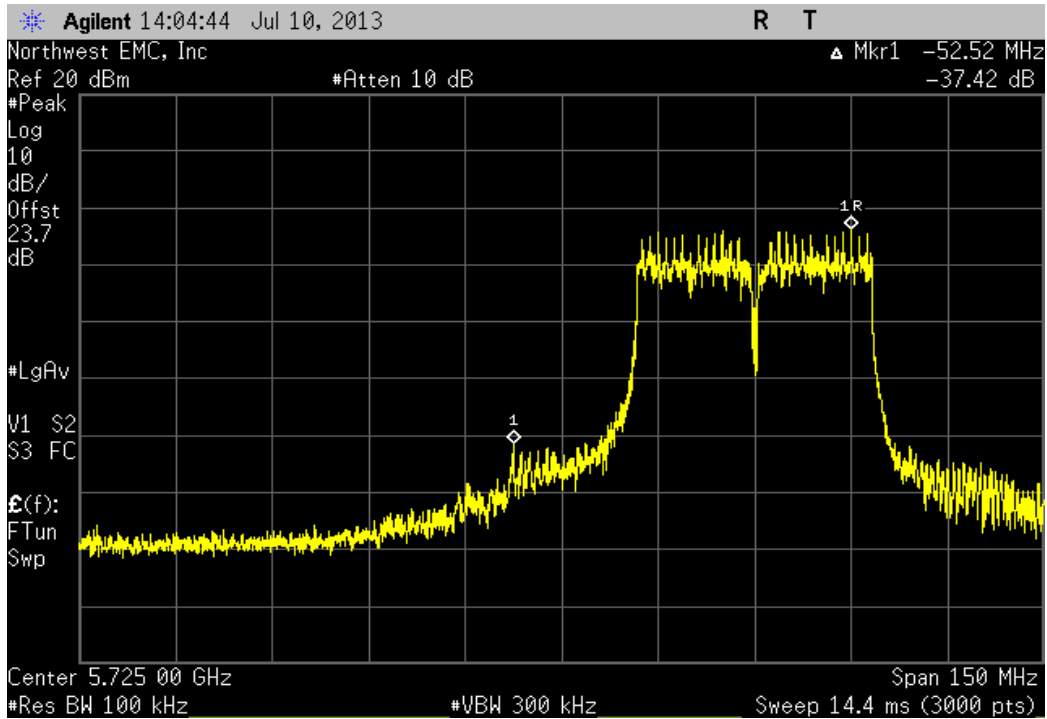
Chain B, 40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS15, High Channel 7/11, 2452 MHz

Value	Limit	Result
-35.65 dBc	≤ -20 dBc	Pass



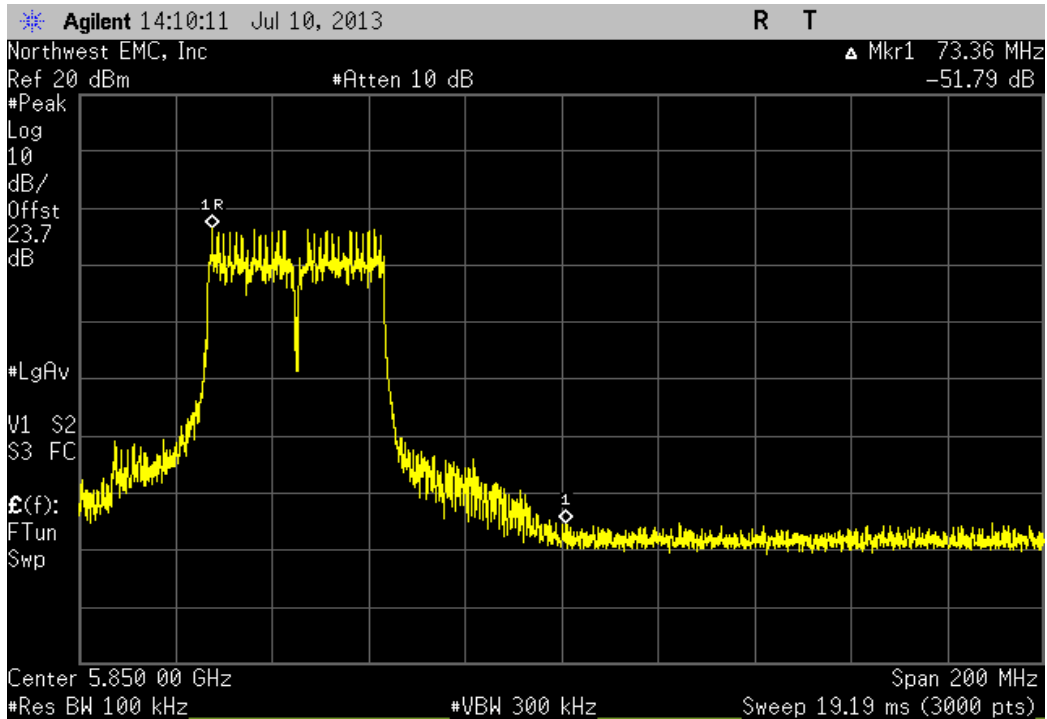
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, Low Channel 149/153, 5755 MHz

Value	Limit	Result
-37.42 dBc	≤ -20 dBc	Pass



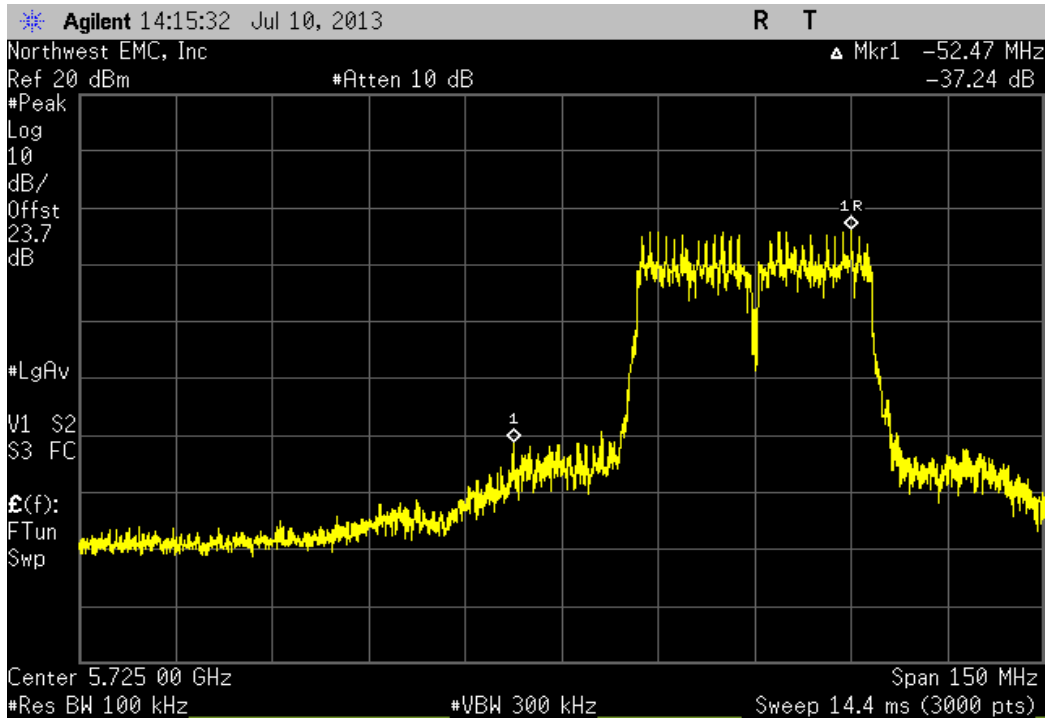
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS8, High Channel 157/161, 5795 MHz

Value	Limit	Result
-51.79 dBc	≤ -20 dBc	Pass



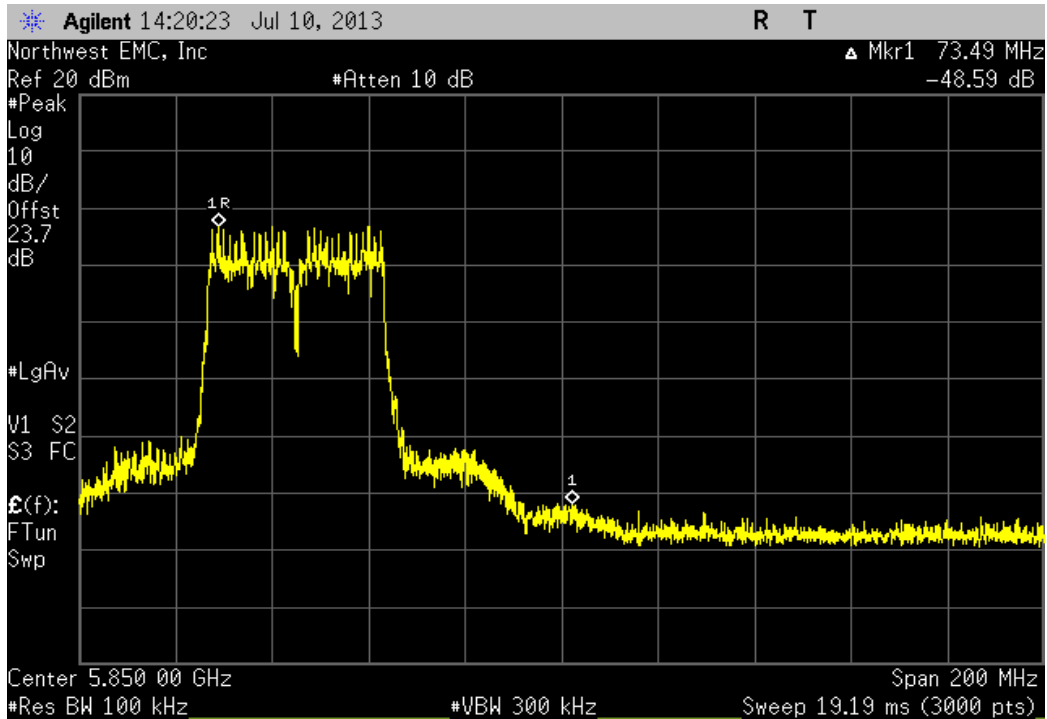
Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, Low Channel 149/153, 5755 MHz

Value	Limit	Result
-37.24 dBc	≤ -20 dBc	Pass



Chain B, 40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS15, High Channel 157/161, 5795 MHz

Value	Limit	Result
-48.59 dBc	≤ -20 dBc	Pass



Band Edge Compliance - Antenna A

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Agilent	N5183A	TID	9/19/2011	36
Attenuator	Fairview Microwave	SA4014-20	TKE	2/12/2013	12
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24
NC02 Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	7/3/2013	12

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

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

DC Block was used in-line for measurements made while under test. For channel output power levels, please refer to the accompanying power table included in this report.



Band Edge Compliance - Antenna A

XMit 2013.02.28
PsaTx 2013.06.07

EUT: 1601	Work Order: MCSO1665
Serial Number: 006079632553	Date: 07/09/13
Customer: Microsoft Corporation	Temperature: 23°C
Attendees: None	Humidity: 45%
Project: None	Barometric Pres.: 1020 mb
Tested by: Richard Mellroth, Brandon Hobbs	Power: 110VAC/60Hz
TEST SPECIFICATIONS	
FCC 15.247:2013	
ANSI C63.10:2009	
TEST METHOD	
Job Site: NC02	

COMMENTS

EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.

DEVIATIONS FROM TEST STANDARD

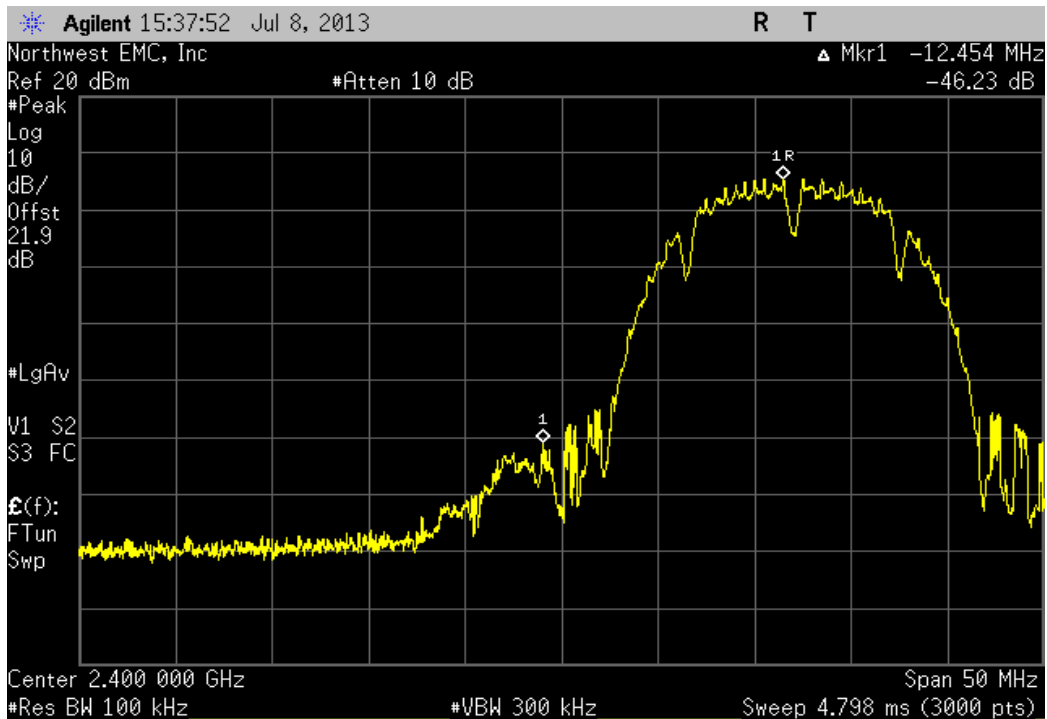
None

Configuration #	1	Signature 
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	Value	Limit	Result
20 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	-46.23 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-62.08 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	-44.32 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-62.81 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	-34.99 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-47.62 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	-37.52 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-48.57 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	-37.06 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-47.85 dBc	≤ -20 dBc	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	-34.74 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-46.82 dBc	≤ -20 dBc	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	-35.76 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-46.68 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(a) 6 Mbps			
Low Channel 149, 5745 MHz	-45.52 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-53.16 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps			
Low Channel 149, 5745 MHz	-46.9 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-53.21 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps			
Low Channel 149, 5745 MHz	-45.87 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-54.84 dBc	≤ -20 dBc	Pass
802.11(n) MCS0 - UNII			
Low Channel 149, 5745 MHz	-42.99 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-53.54 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII			
Low Channel 149, 5745 MHz	-42.46 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-53.52 dBc	≤ -20 dBc	Pass
40 MHz			
2400 MHz - 2483.5 MHz Band			
802.11(n) MCS0			
Low Channel 1/5, 2422 MHz	-33.64 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	-33.34 dBc	≤ -20 dBc	Pass
802.11(n) MCS7			
Low Channel 1/5, 2422 MHz	-30.33 dBc	≤ -20 dBc	Pass
High Channel 7/11, 2452 MHz	-31.03 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(n) MCS0 - UNII			
Low Channel 149/153, 5755 MHz	-36.09 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	-52.04 dBc	≤ -20 dBc	Pass
802.11(n) MCS7 - UNII			
Low Channel 149/153, 5755 MHz	-35.16 dBc	≤ -20 dBc	Pass
High Channel 157/161, 5795 MHz	-50.78 dBc	≤ -20 dBc	Pass

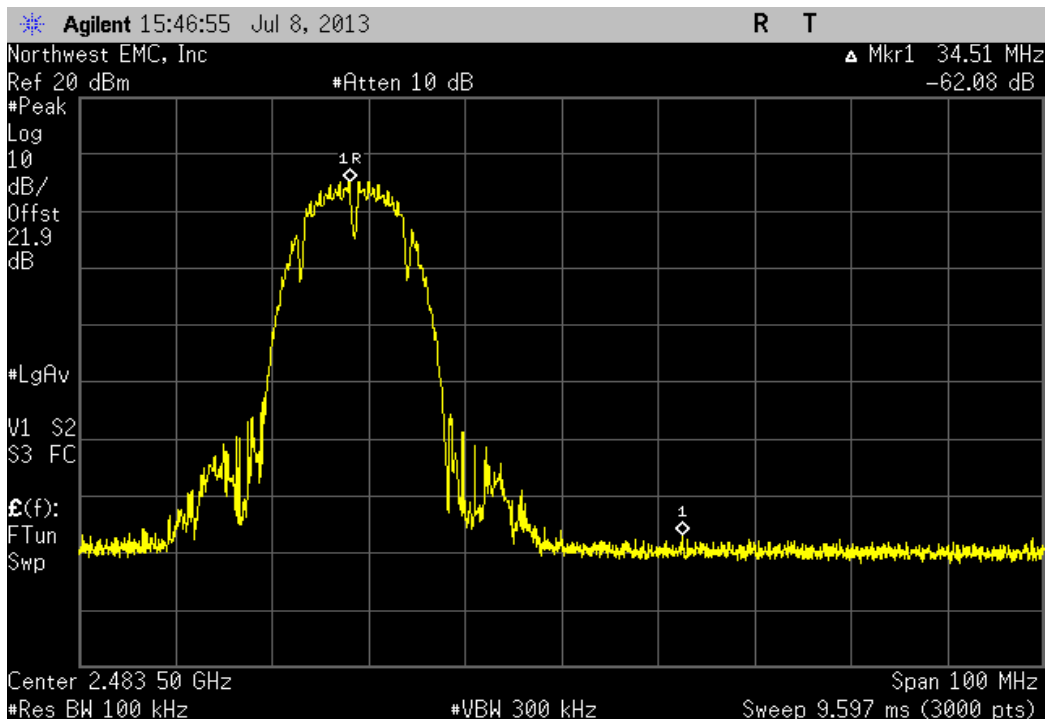
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-46.23 dBc	≤ -20 dBc	Pass



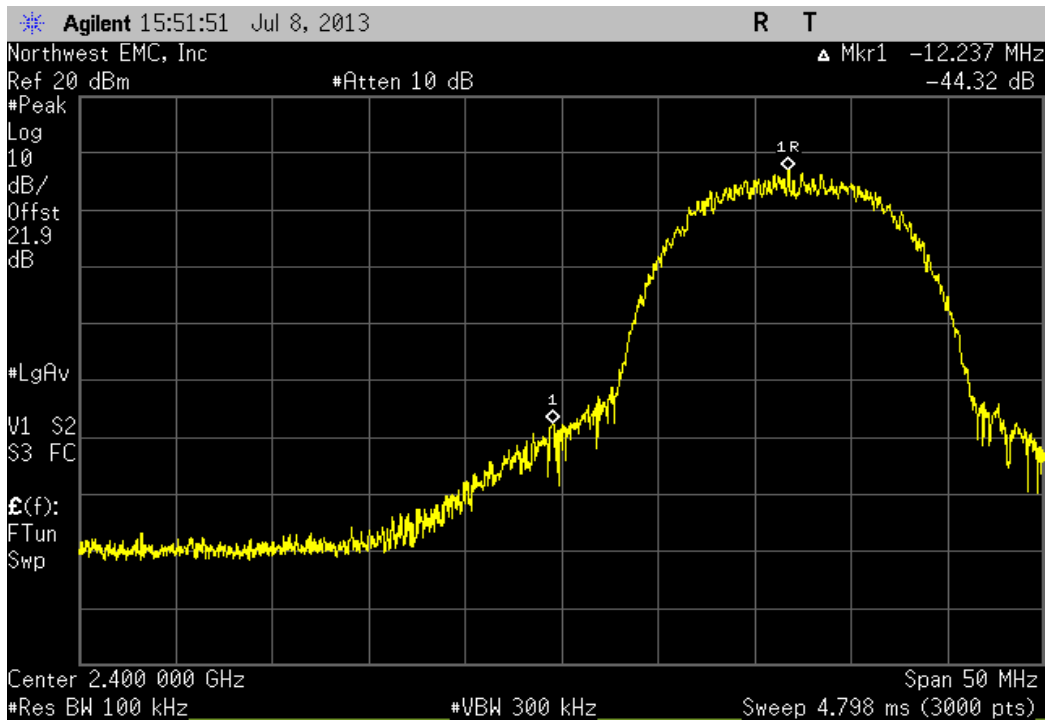
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-62.08 dBc	≤ -20 dBc	Pass



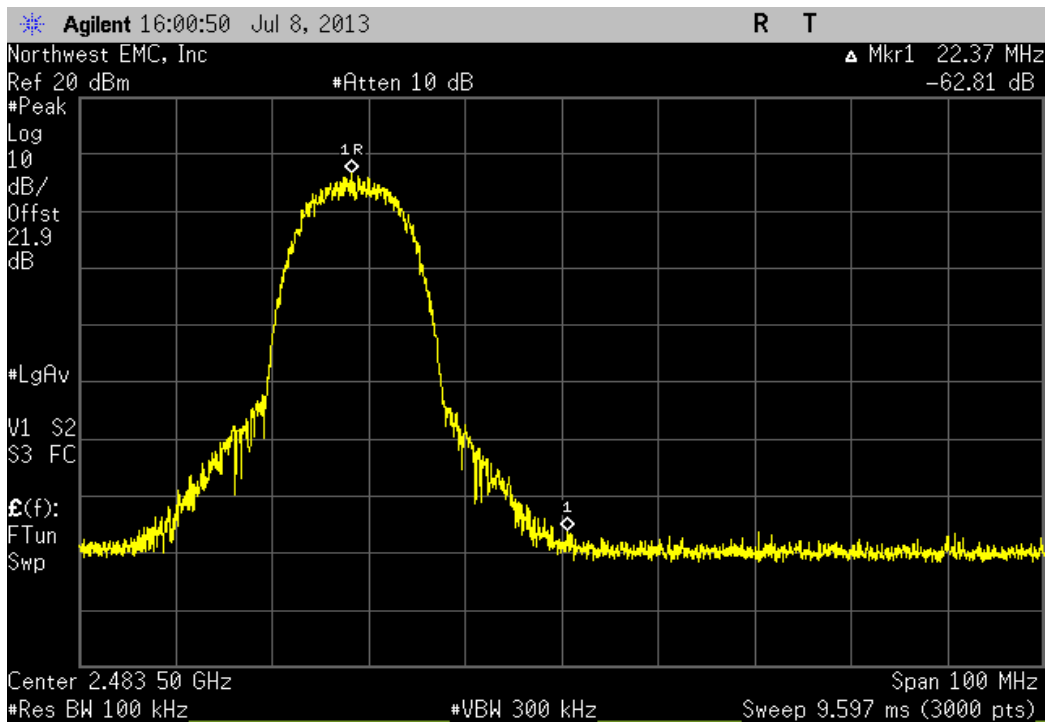
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-44.32 dBc	≤ -20 dBc	Pass



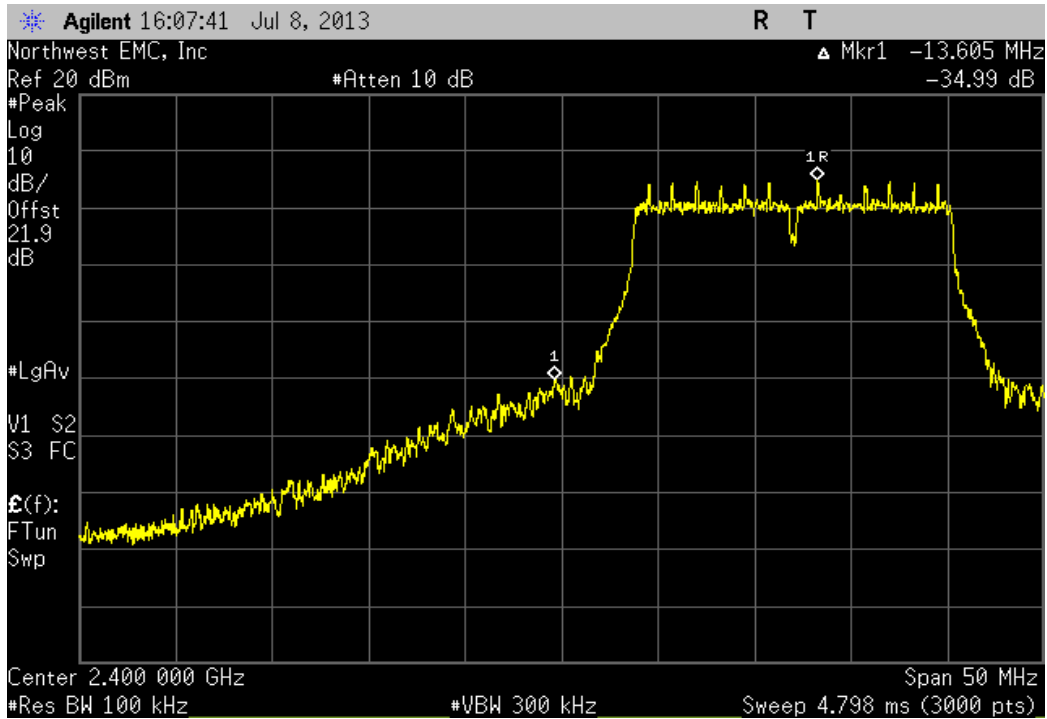
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-62.81 dBc	≤ -20 dBc	Pass



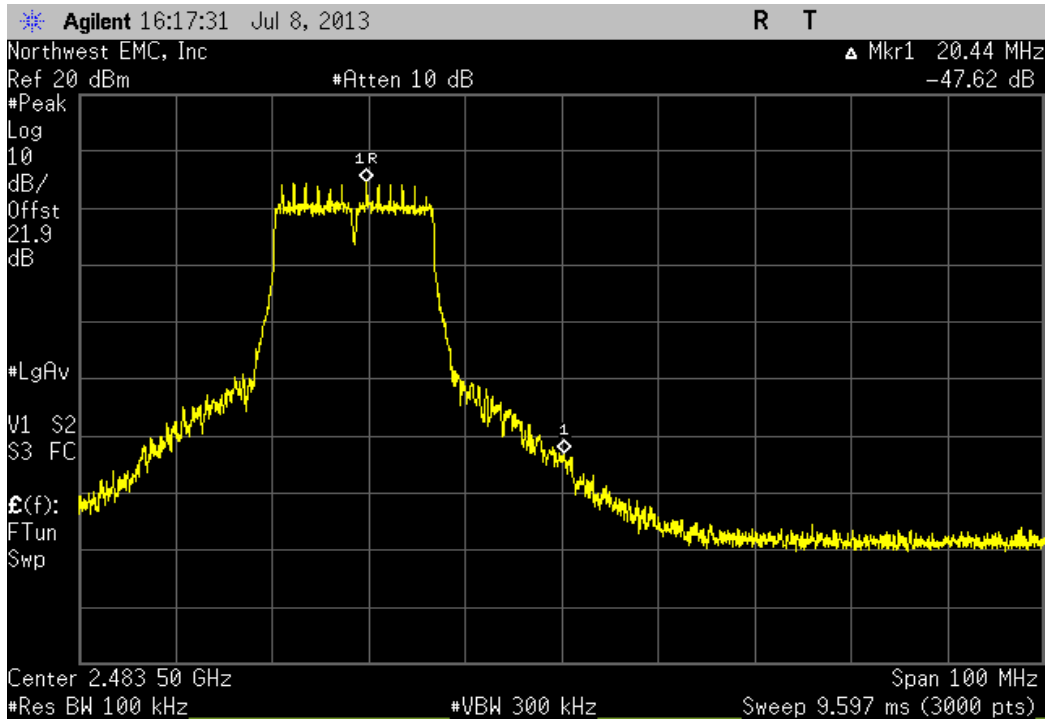
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-34.99 dBc	≤ -20 dBc	Pass



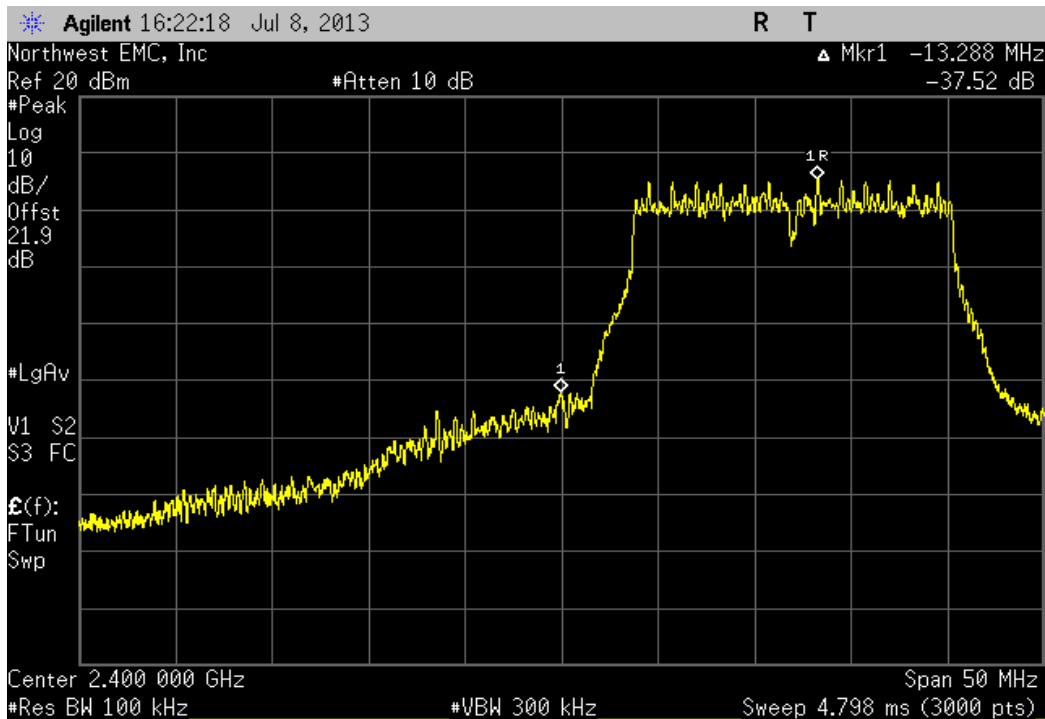
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-47.62 dBc	≤ -20 dBc	Pass



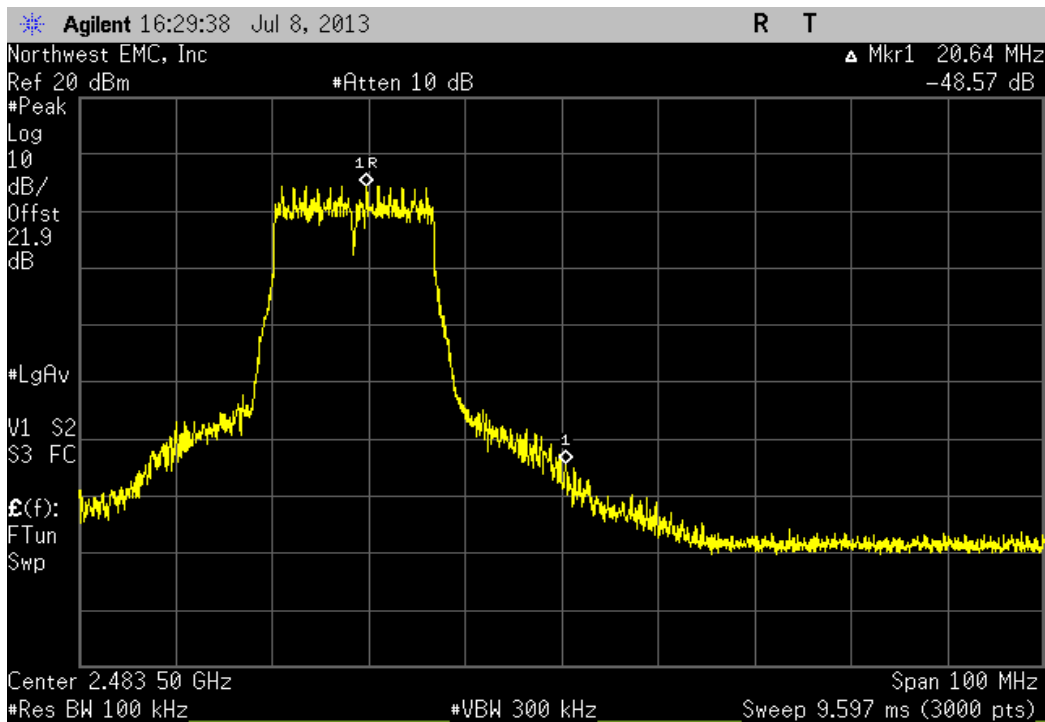
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-37.52 dBc	≤ -20 dBc	Pass



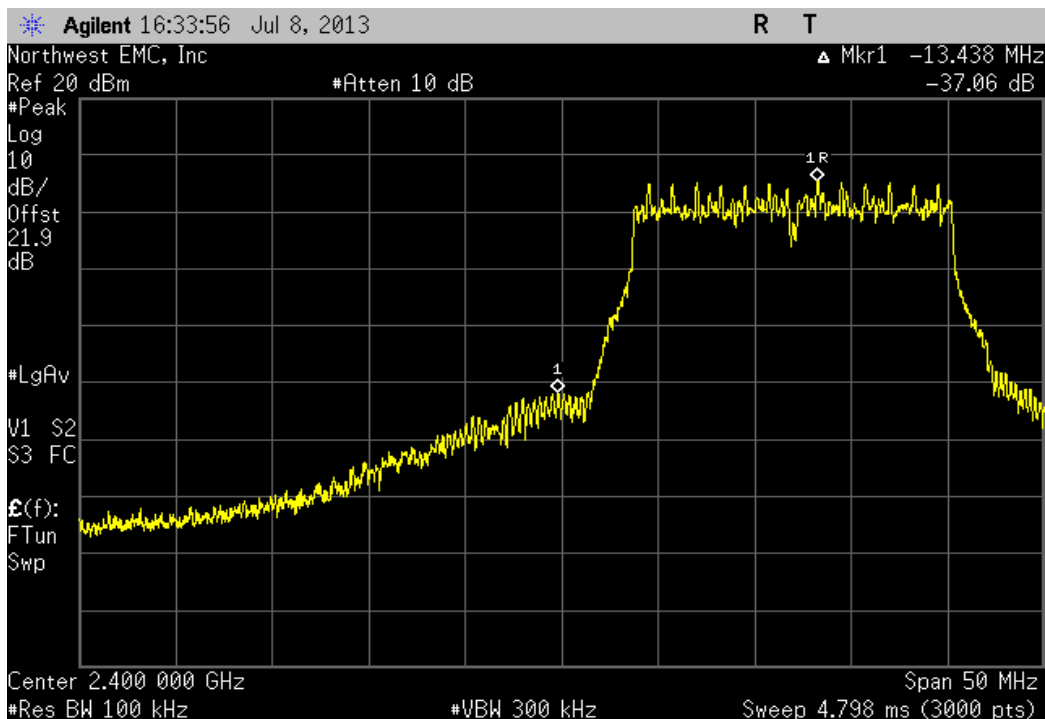
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-48.57 dBc	≤ -20 dBc	Pass



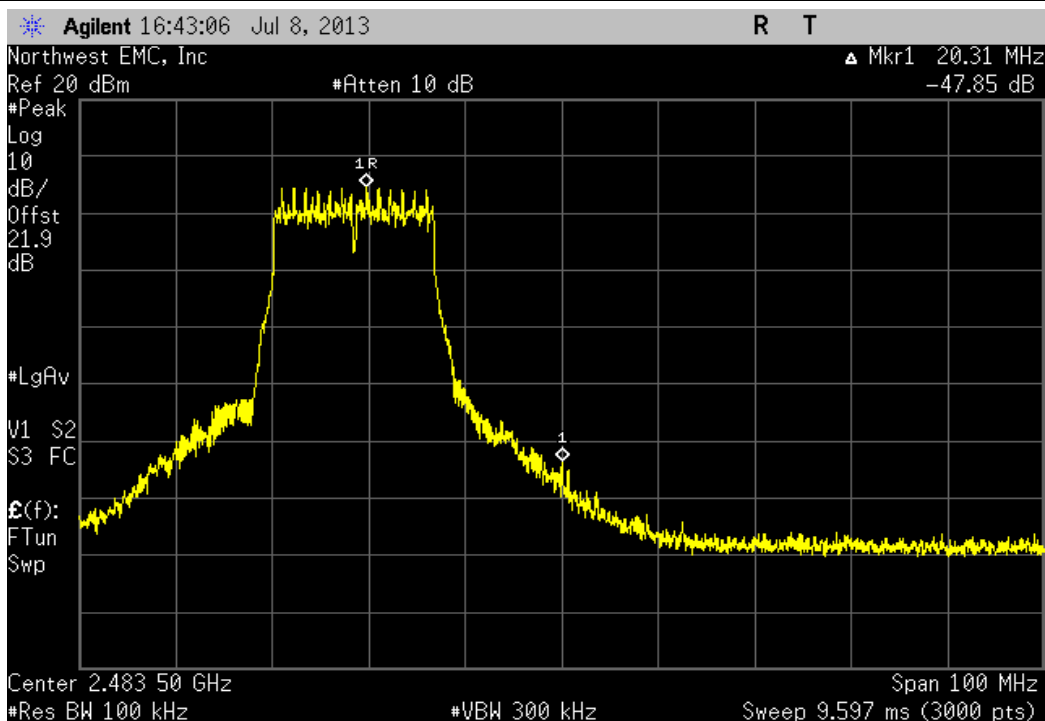
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-37.06 dBc	≤ -20 dBc	Pass



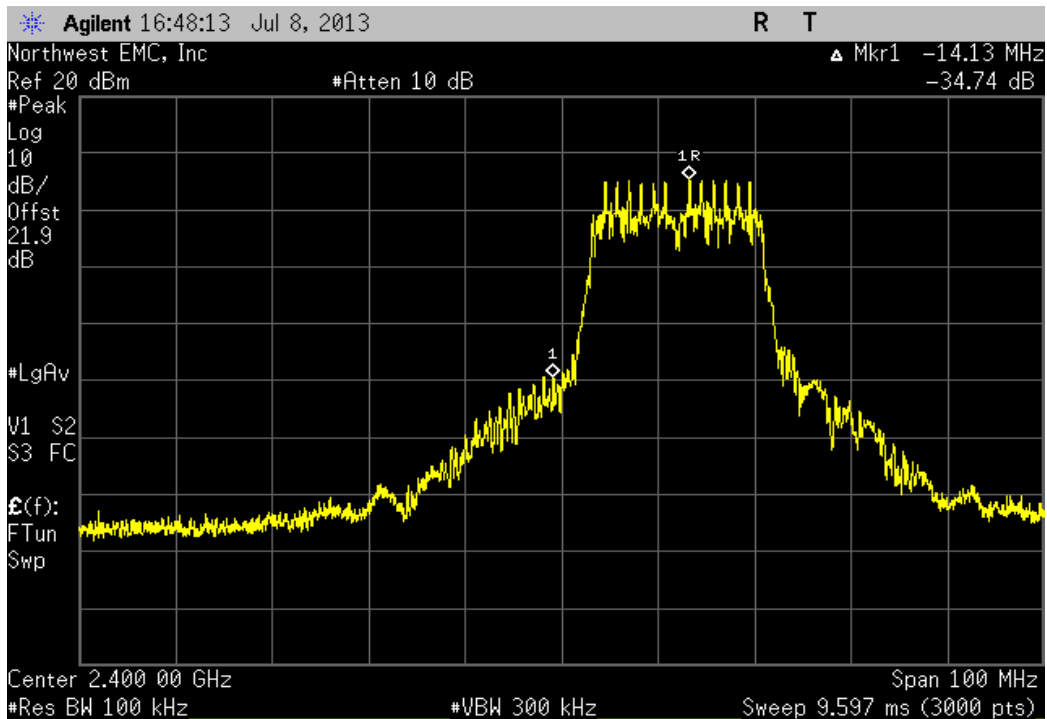
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-47.85 dBc	≤ -20 dBc	Pass



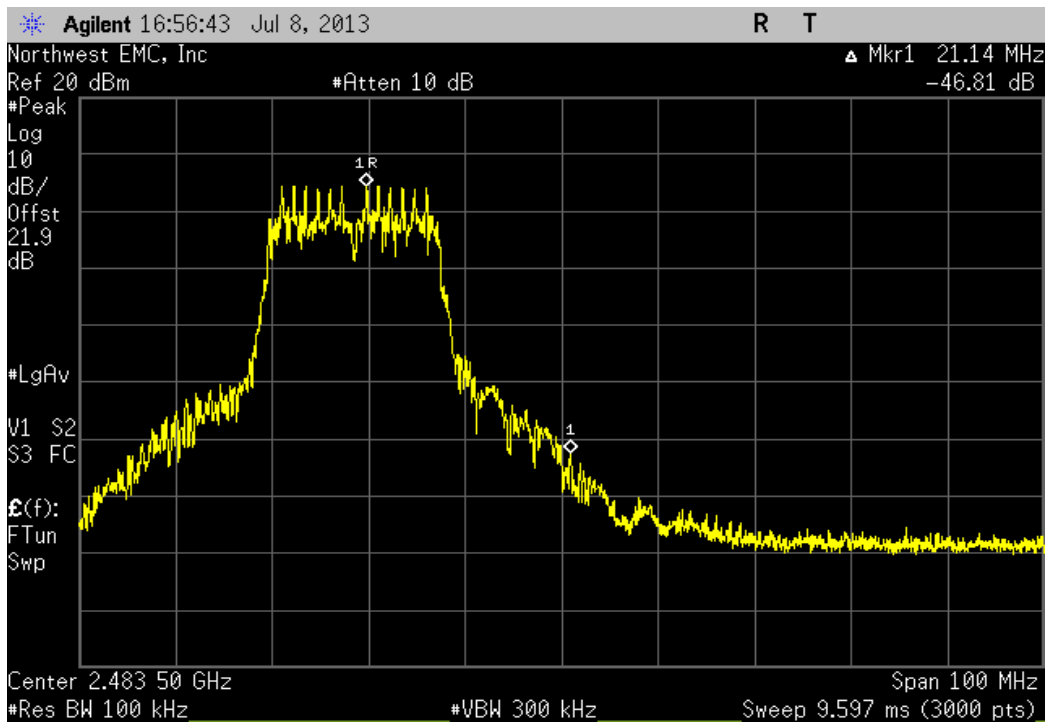
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value	Limit	Result
-34.74 dBc	≤ -20 dBc	Pass



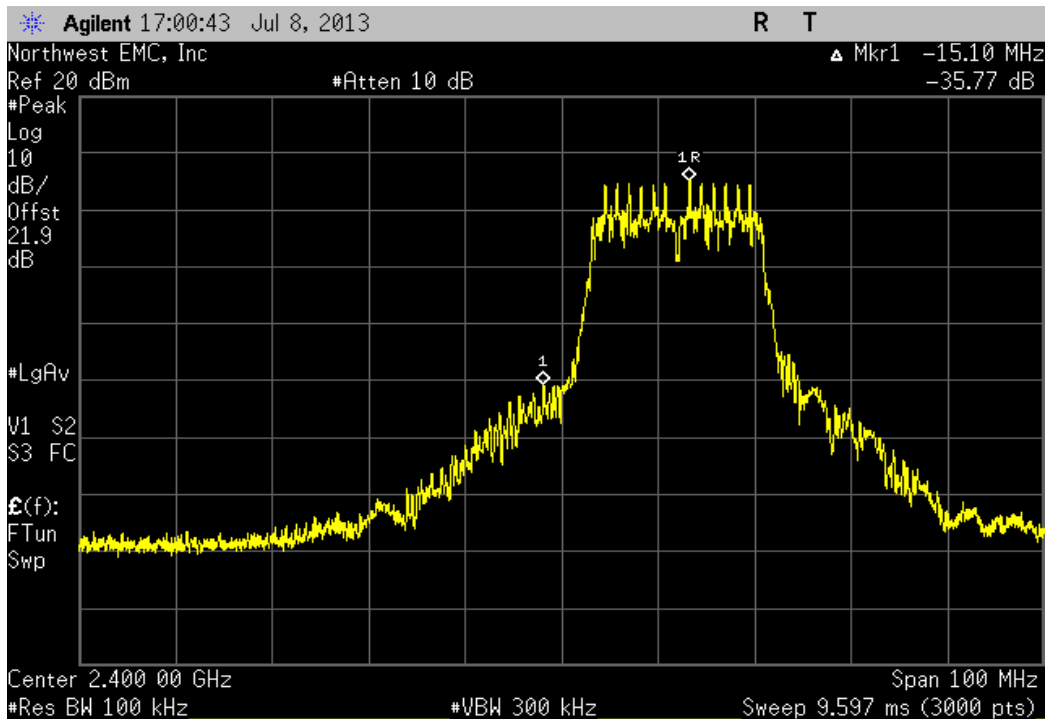
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value	Limit	Result
-46.82 dBc	≤ -20 dBc	Pass



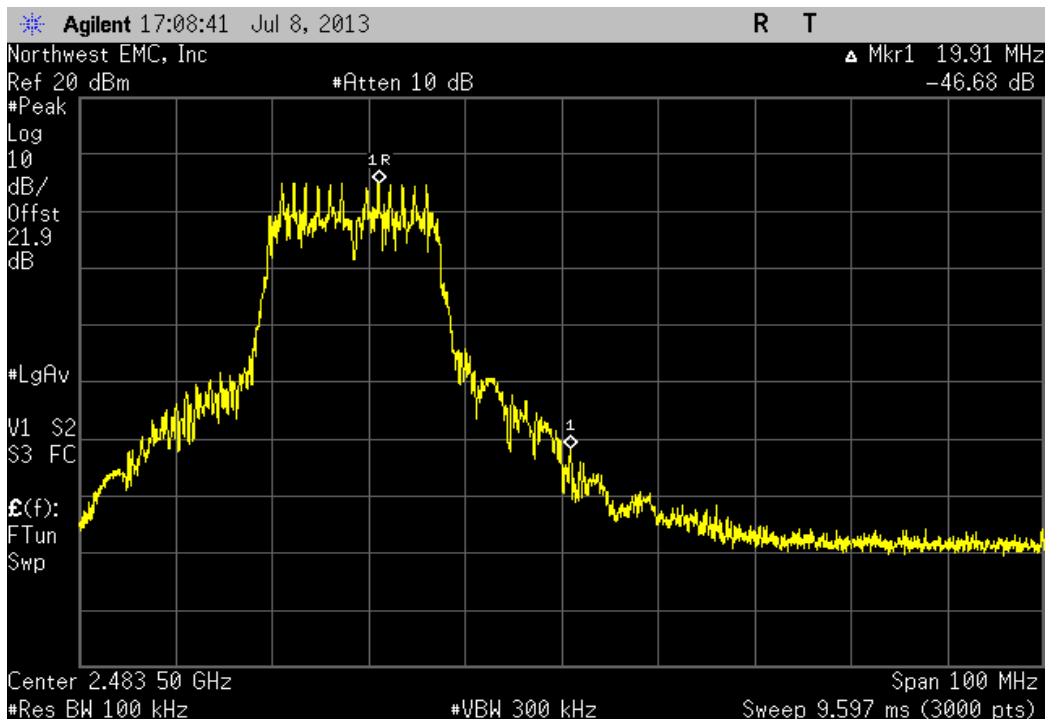
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit	Result
-35.76 dBc	≤ -20 dBc	Pass



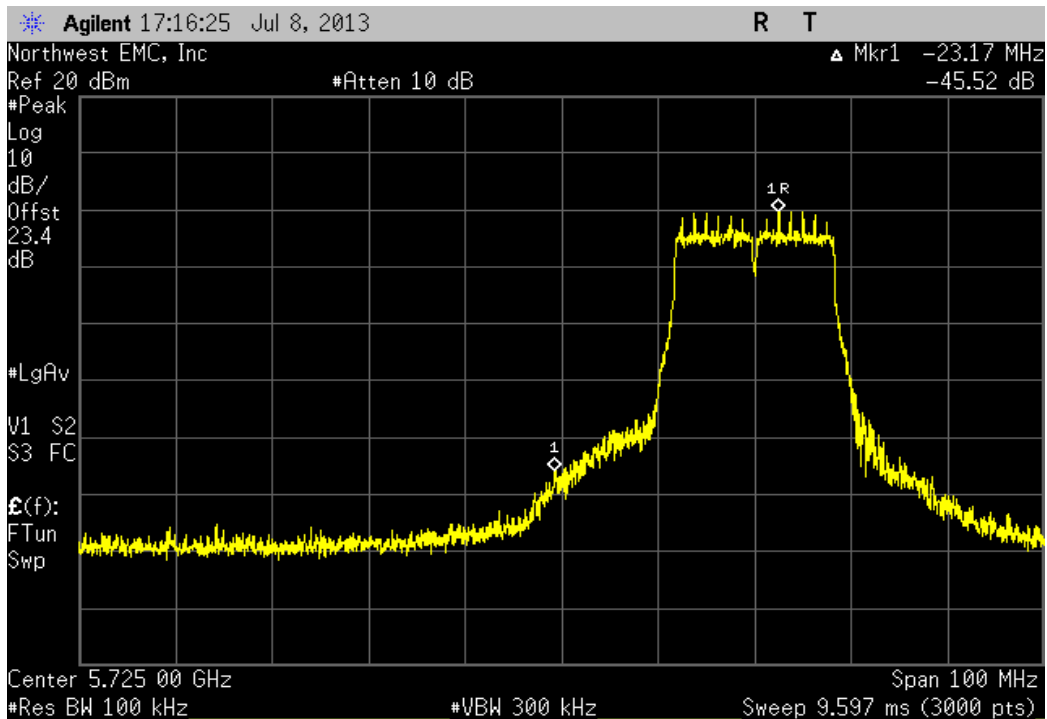
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit	Result
-46.68 dBc	≤ -20 dBc	Pass



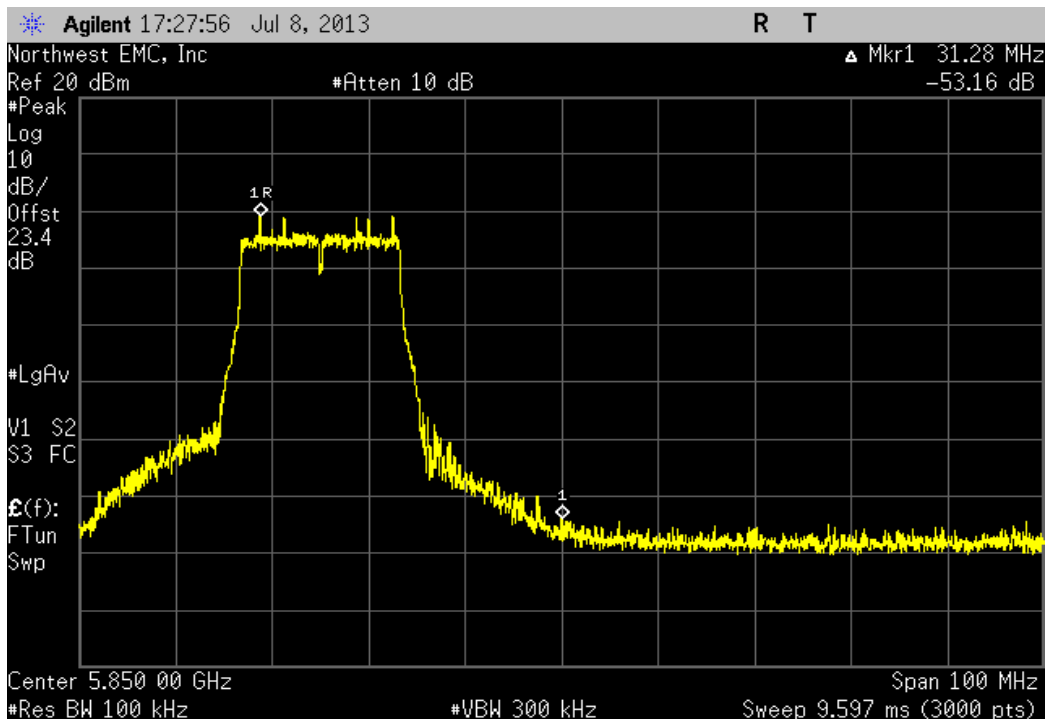
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-45.52 dBc	≤ -20 dBc	Pass



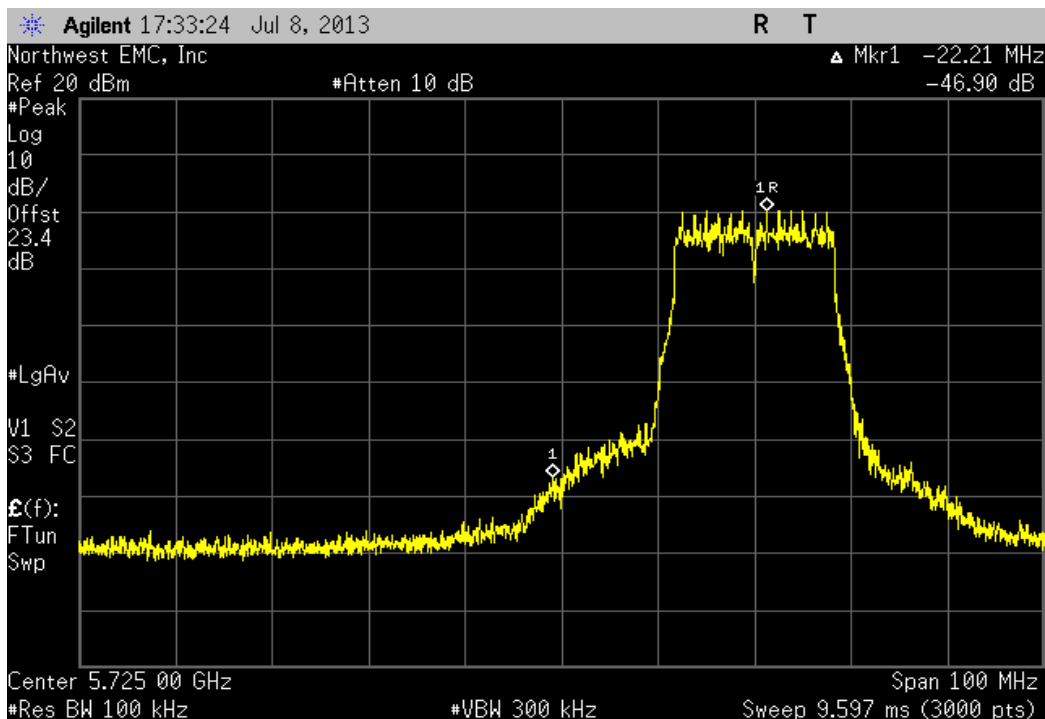
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-53.16 dBc	≤ -20 dBc	Pass



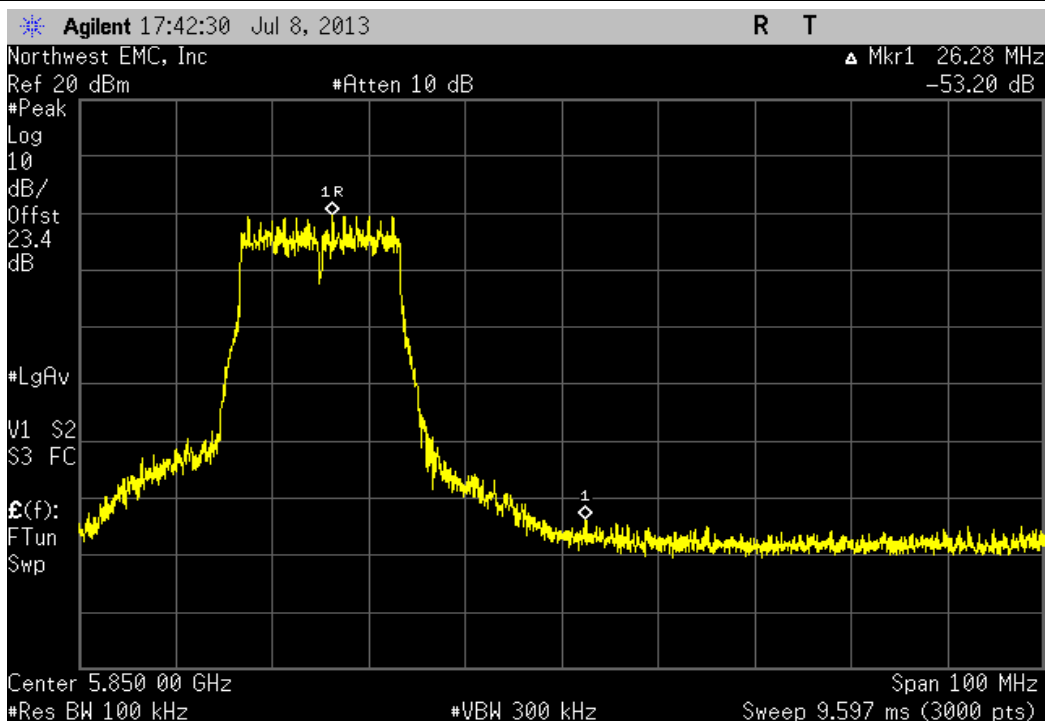
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-46.9 dBc	≤ -20 dBc	Pass



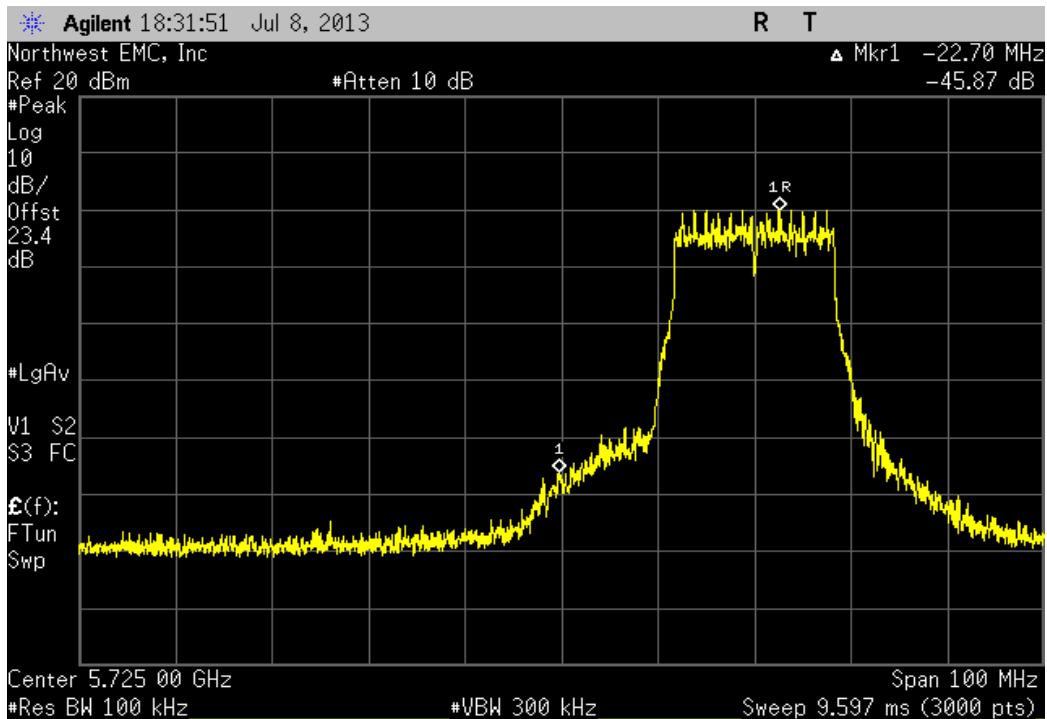
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-53.21 dBc	≤ -20 dBc	Pass



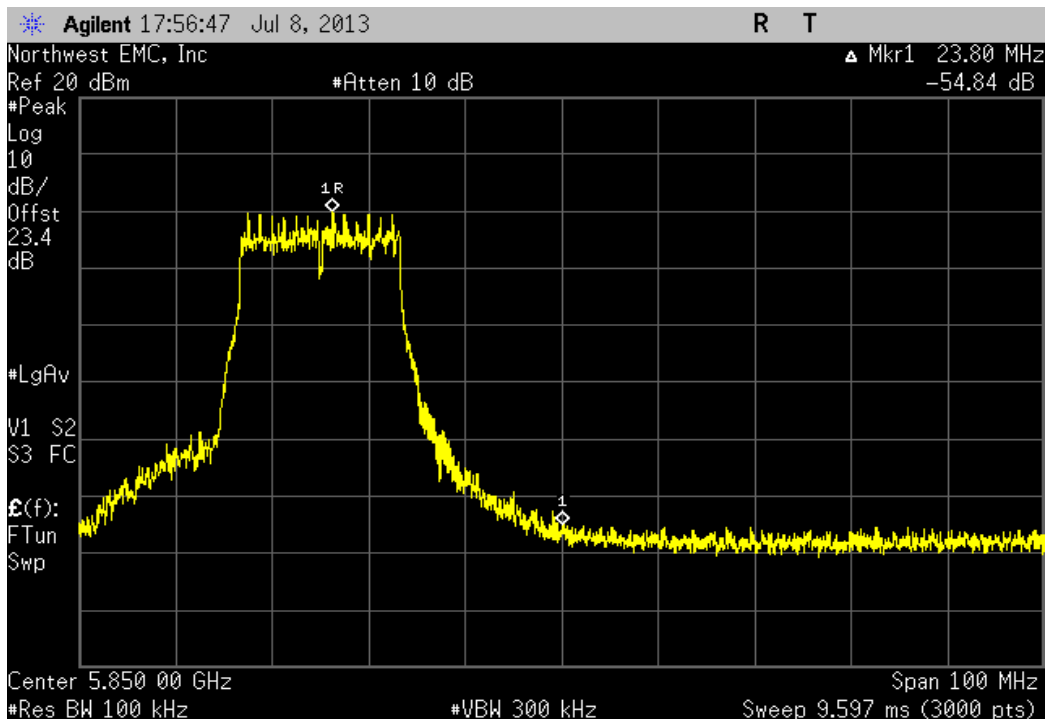
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-45.87 dBc	≤ -20 dBc	Pass



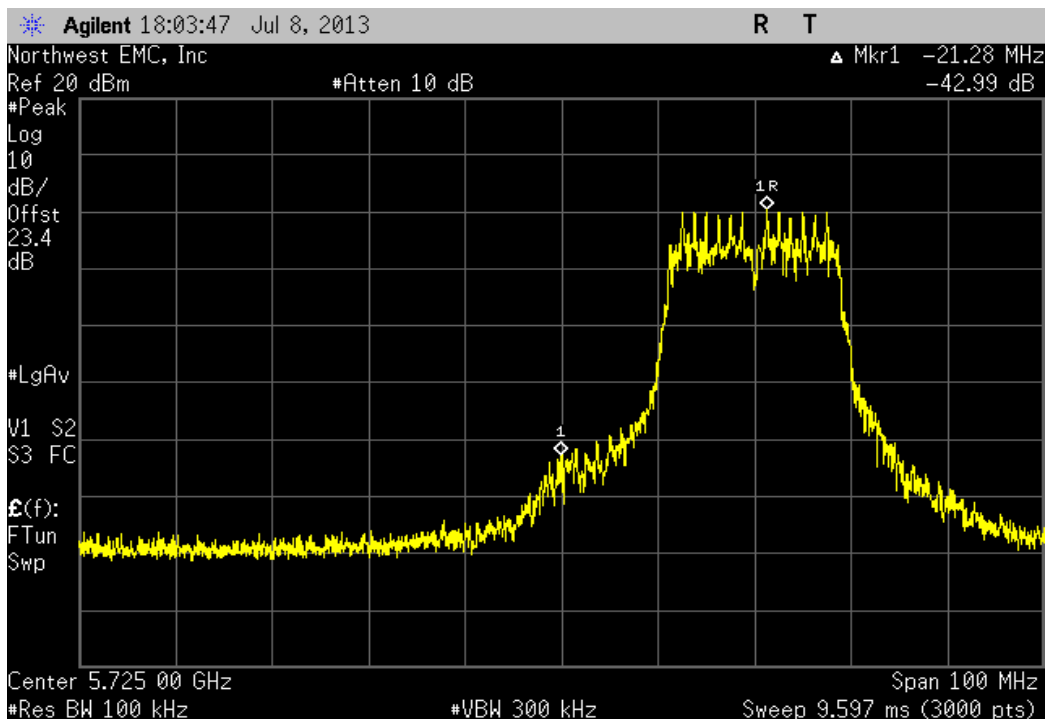
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-54.84 dBc	≤ -20 dBc	Pass



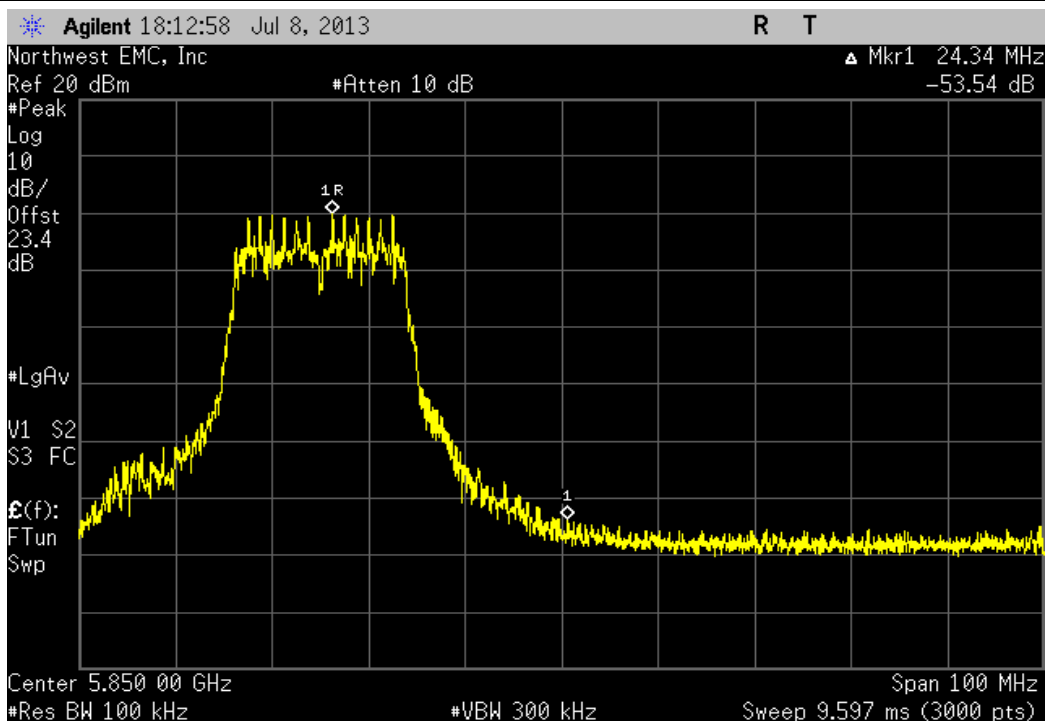
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
-42.99 dBc	≤ -20 dBc	Pass



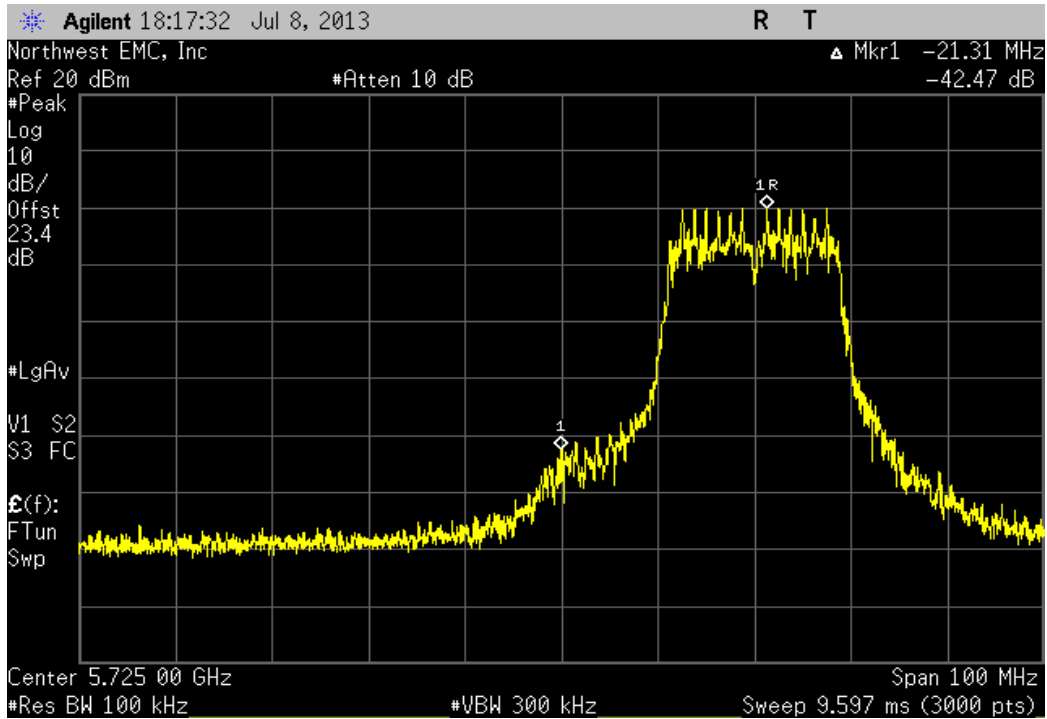
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

Value	Limit	Result
-53.54 dBc	≤ -20 dBc	Pass



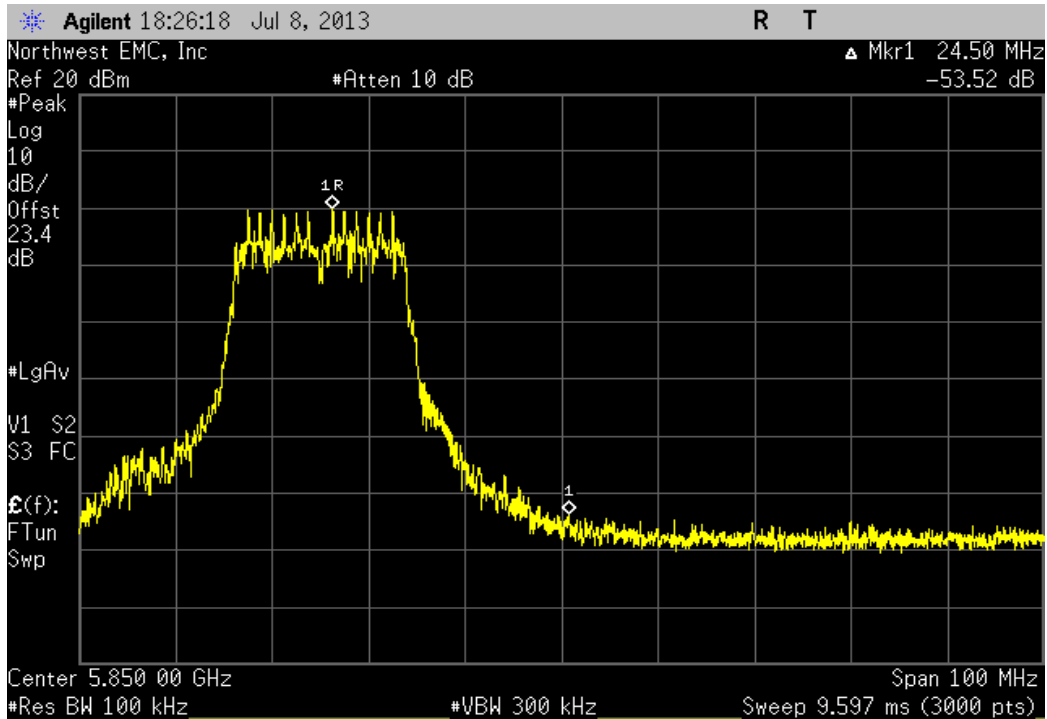
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
-42.46 dBc	≤ -20 dBc	Pass



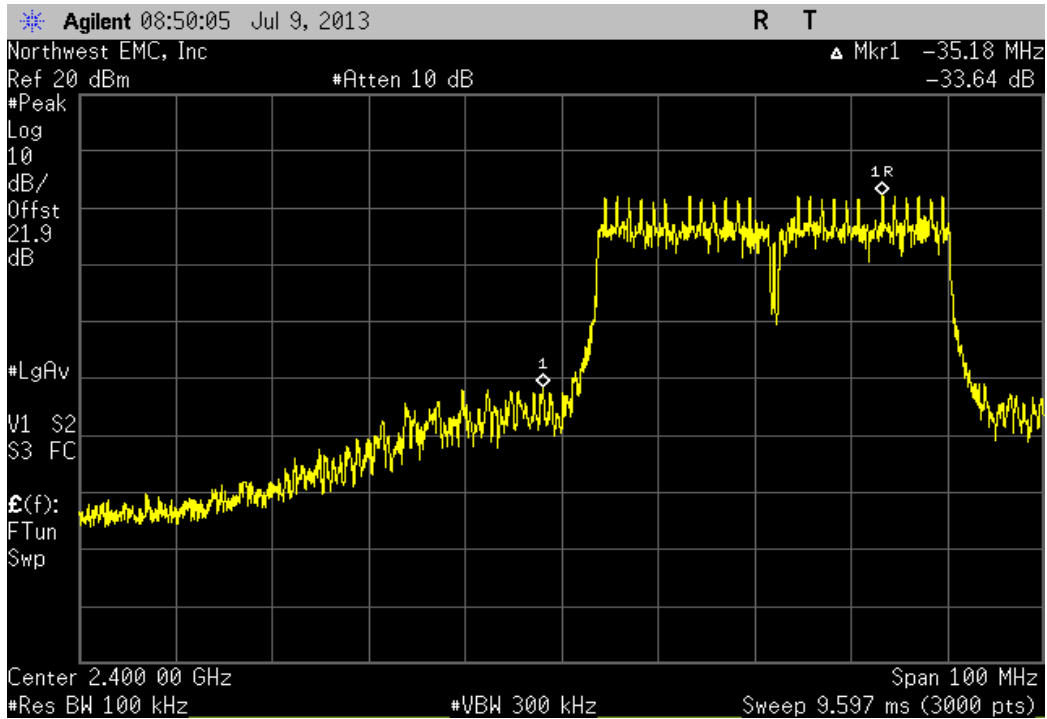
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

Value	Limit	Result
-53.52 dBc	≤ -20 dBc	Pass



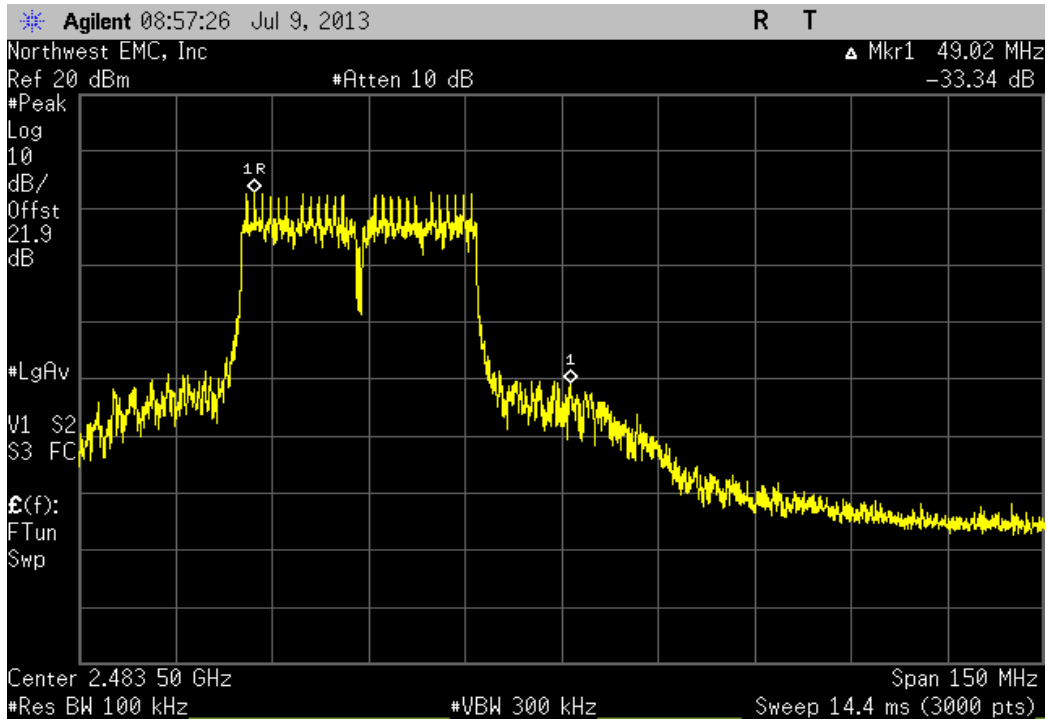
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-33.64 dBc	≤ -20 dBc	Pass



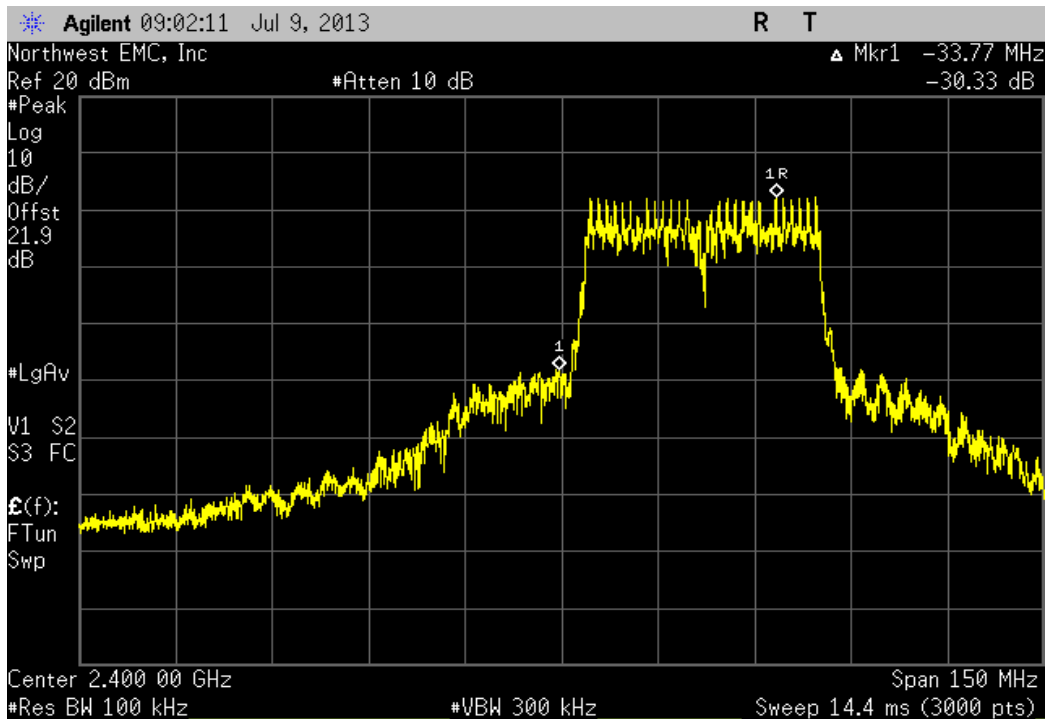
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz

Value	Limit	Result
-33.34 dBc	≤ -20 dBc	Pass



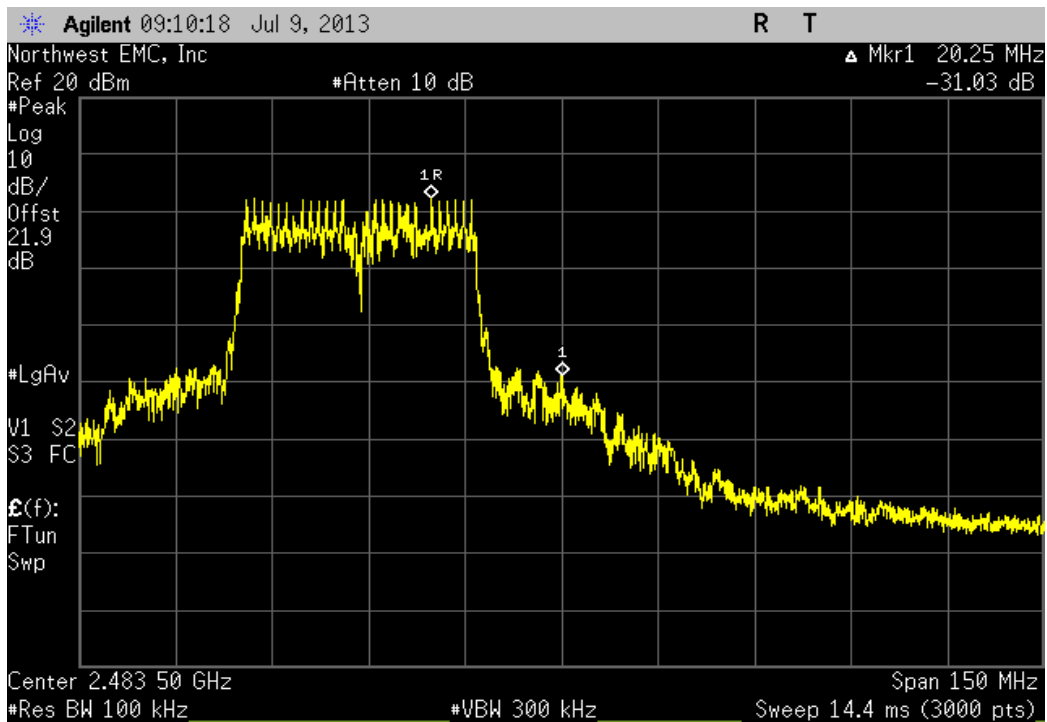
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-30.33 dBc	≤ -20 dBc	Pass



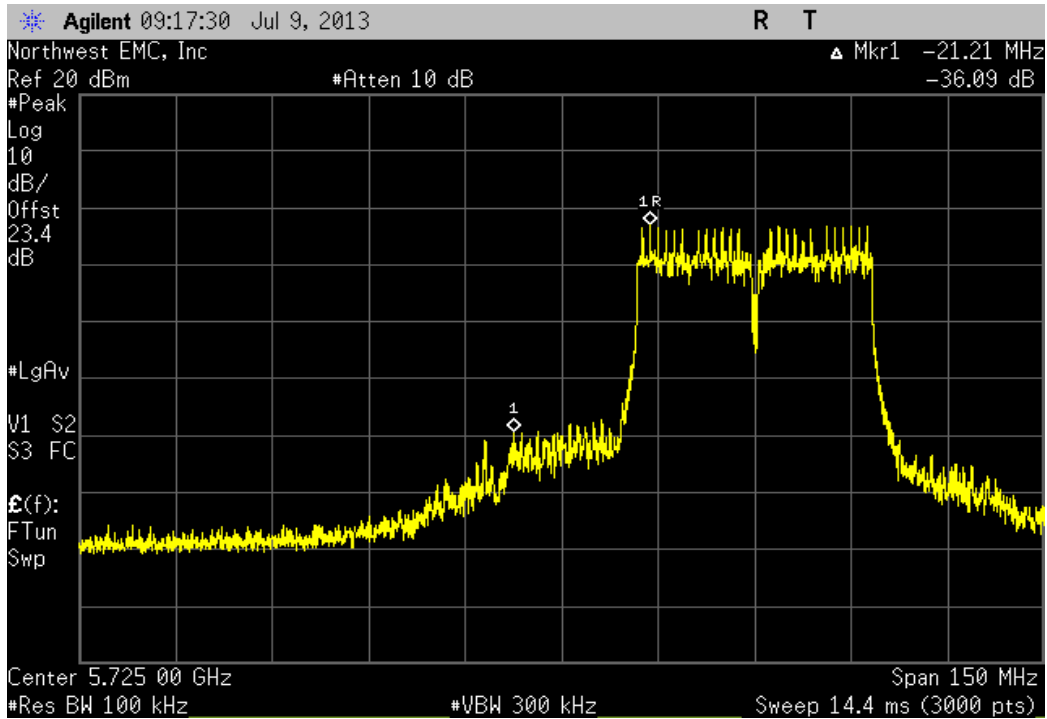
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz

Value	Limit	Result
-31.03 dBc	≤ -20 dBc	Pass



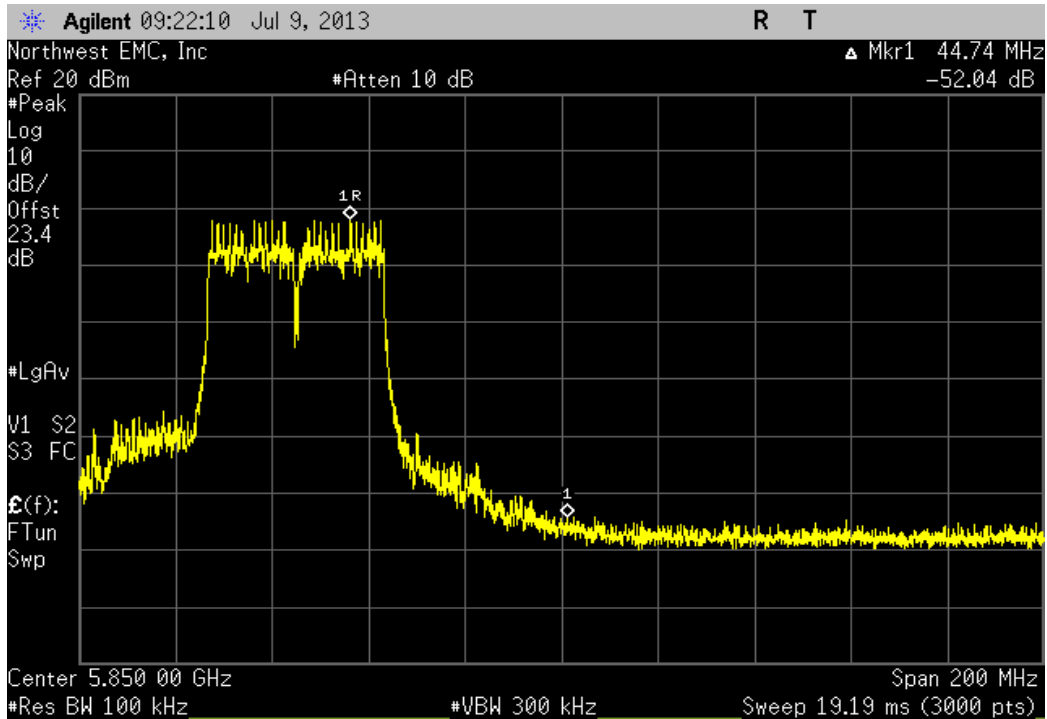
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz

				Value	Limit	Result
				-36.09 dBc	≤ -20 dBc	Pass



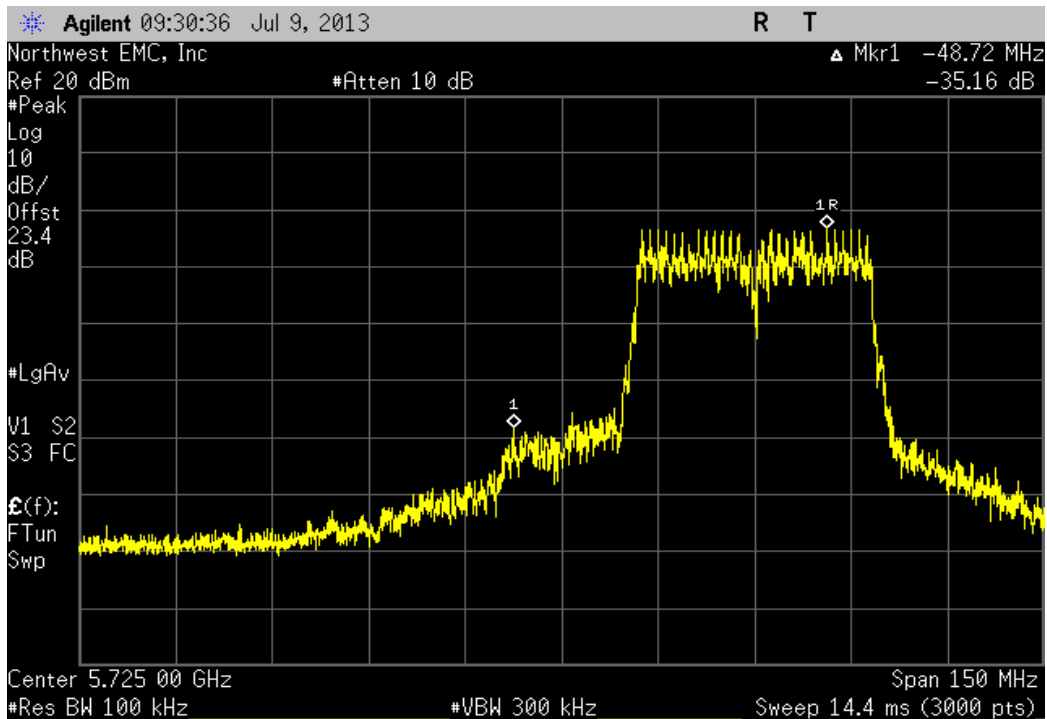
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz

				Value	Limit	Result
				-52.04 dBc	≤ -20 dBc	Pass



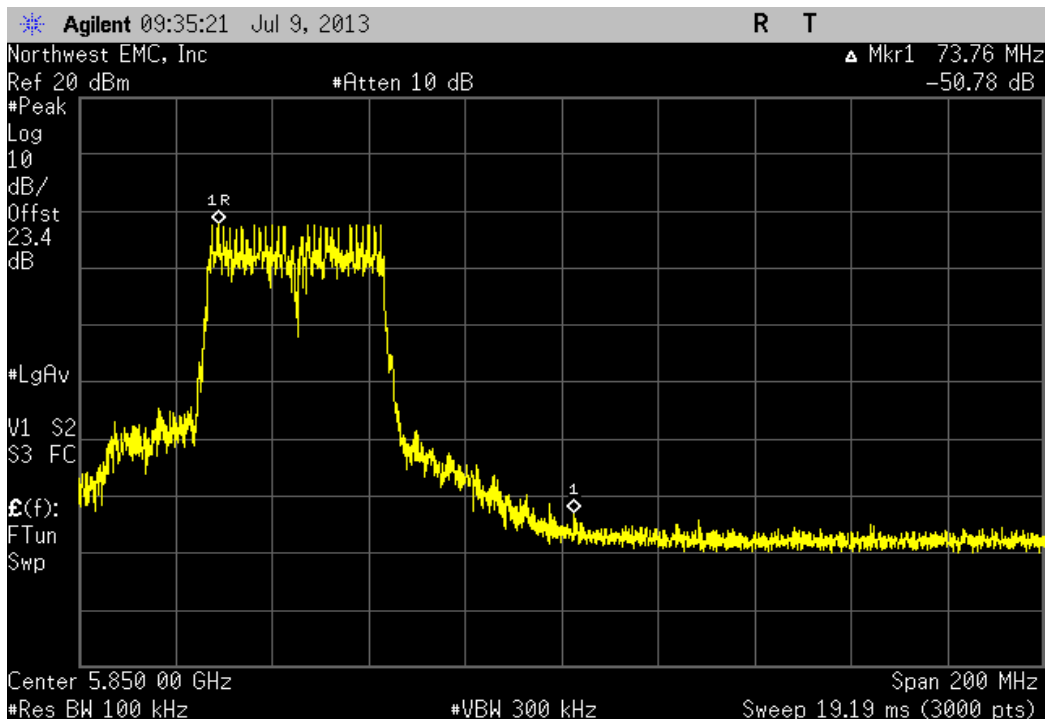
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz

Value	Limit	Result
-35.16 dBc	≤ -20 dBc	Pass



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz

Value	Limit	Result
-50.78 dBc	≤ -20 dBc	Pass



Band Edge Compliance - Antenna B

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Agilent	N5183A	TID	9/19/2011	36
Attenuator	Fairview Microwave	SA4014-20	TKE	2/12/2013	12
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24
NC02 Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	7/3/2013	12

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

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

DC Block was used in-line for measurements made while under test. For channel output power levels, please refer to the accompanying power table included in this report.



Band Edge Compliance - Antenna B

XMit 2013.02.28
PsaTx 2013.06.07

EUT: 1601	Work Order: MCSO1665
Serial Number: 006079632553	Date: 07/09/13
Customer: Microsoft Corporation	Temperature: 23°C
Attendees: None	Humidity: 45%
Project: None	Barometric Pres.: 1020 mb
Tested by: Richard Mellroth, Brandon Hobbs	Power: 110VAC/60Hz
Job Site: NC02	

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

COMMENTS
EUT was operating at 100% Duty Cycle. Adapter cable loss of 0.75 dB for 2.4 GHz channels and 1.3 dB for 5.7 GHz channels was added to analyzer reference level offset.

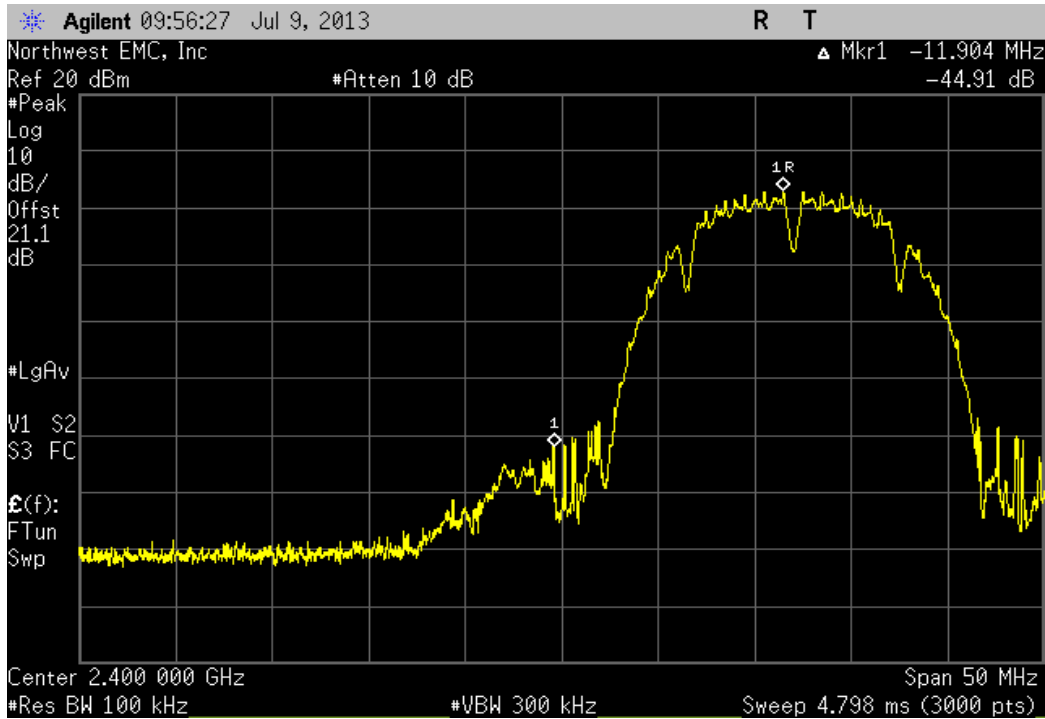
DEVIATIONS FROM TEST STANDARD
None

Configuration #	1	Signature 
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		Value	Limit	Result
20 MHz	2400 MHz - 2483.5 MHz Band			
	802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	-44.91 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-60.08 dBc	≤ -20 dBc	Pass
	802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	-44.44 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-61.97 dBc	≤ -20 dBc	Pass
	802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	-38.89 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-52.42 dBc	≤ -20 dBc	Pass
	802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	-40.85 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-54.31 dBc	≤ -20 dBc	Pass
	802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	-37.9 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-52.83 dBc	≤ -20 dBc	Pass
	802.11(n) MCS0			
	Low Channel 1, 2412 MHz	-36.58 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-50.68 dBc	≤ -20 dBc	Pass
	802.11(n) MCS7			
	Low Channel 1, 2412 MHz	-56.89 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-50.74 dBc	≤ -20 dBc	Pass
	5725 MHz - 5850 MHz Band			
	802.11(a) 6 Mbps			
	Low Channel 149, 5745 MHz	-47.94 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	-53.66 dBc	≤ -20 dBc	Pass
	802.11(a) 36 Mbps			
	Low Channel 149, 5745 MHz	-47.88 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	-53.02 dBc	≤ -20 dBc	Pass
	802.11(a) 54 Mbps			
	Low Channel 149, 5745 MHz	-47.66 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	-52.73 dBc	≤ -20 dBc	Pass
	802.11(n) MCS0 - UNII			
	Low Channel 149, 5745 MHz	-45.51 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	-52.76 dBc	≤ -20 dBc	Pass
	802.11(n) MCS7 - UNII			
	Low Channel 149, 5745 MHz	-45.45 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	-53.38 dBc	≤ -20 dBc	Pass
40 MHz	2400 MHz - 2483.5 MHz Band			
	802.11(n) MCS0			
	Low Channel 1/5, 2422 MHz	-36.56 dBc	≤ -20 dBc	Pass
	High Channel 7/11, 2452 MHz	-38.37 dBc	≤ -20 dBc	Pass
	802.11(n) MCS7			
	Low Channel 1/5, 2422 MHz	-29.26 dBc	≤ -20 dBc	Pass
	High Channel 7/11, 2452 MHz	-34.38 dBc	≤ -20 dBc	Pass
	5725 MHz - 5850 MHz Band			
	802.11(n) MCS0 - UNII			
	Low Channel 149/153, 5755 MHz	-37.72 dBc	≤ -20 dBc	Pass
	High Channel 157/161, 5795 MHz	-51.4 dBc	≤ -20 dBc	Pass
	802.11(n) MCS7 - UNII			
	Low Channel 149/153, 5755 MHz	-34.96 dBc	≤ -20 dBc	Pass
	High Channel 157/161, 5795 MHz	-49.55 dBc	≤ -20 dBc	Pass

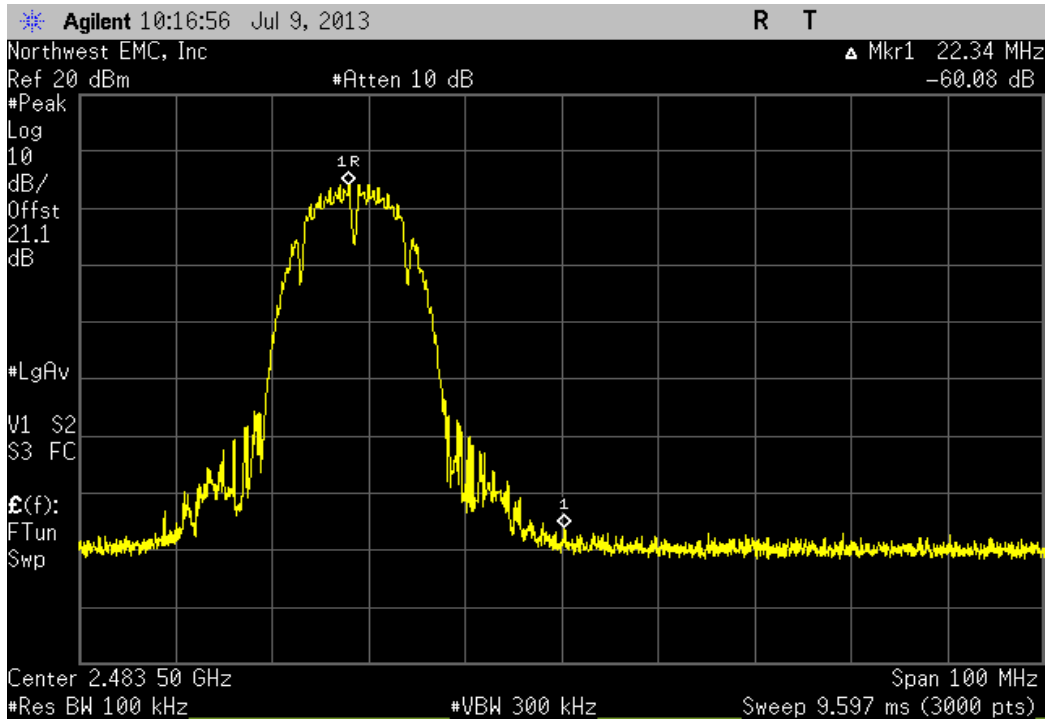
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-44.91 dBc	≤ -20 dBc	Pass



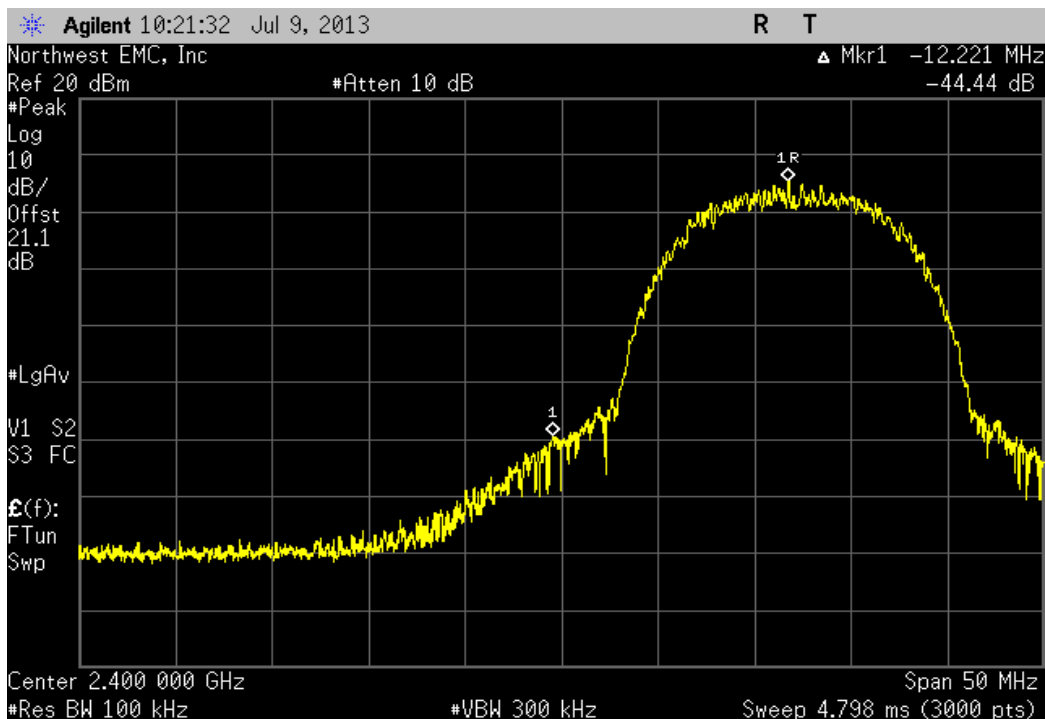
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-60.08 dBc	≤ -20 dBc	Pass



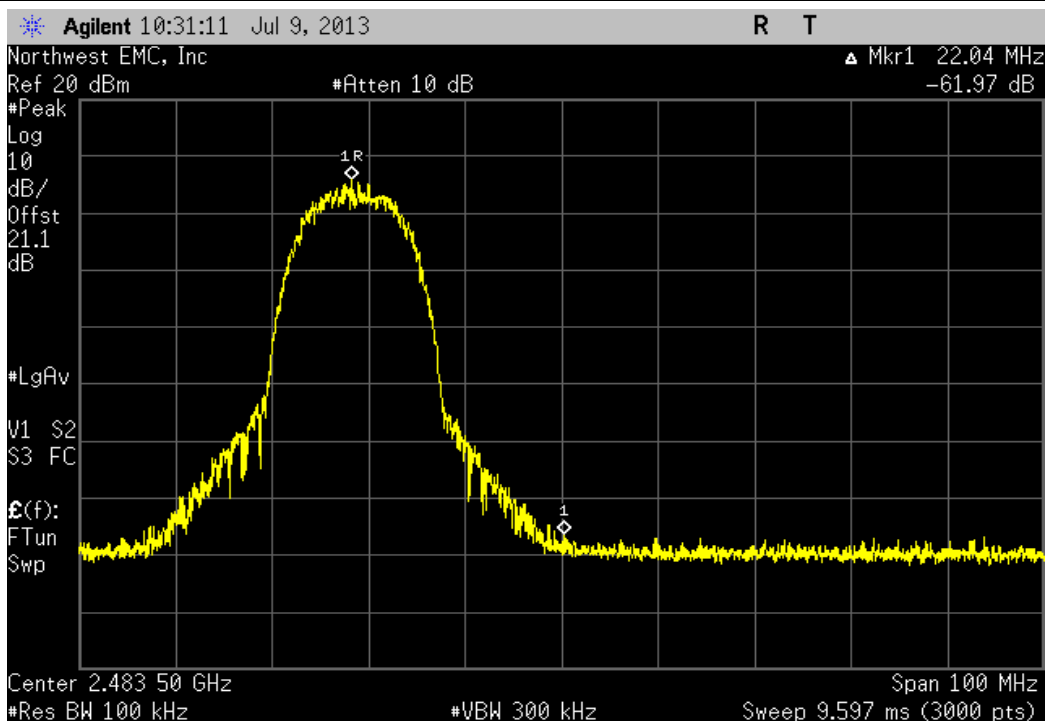
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-44.44 dBc	≤ -20 dBc	Pass



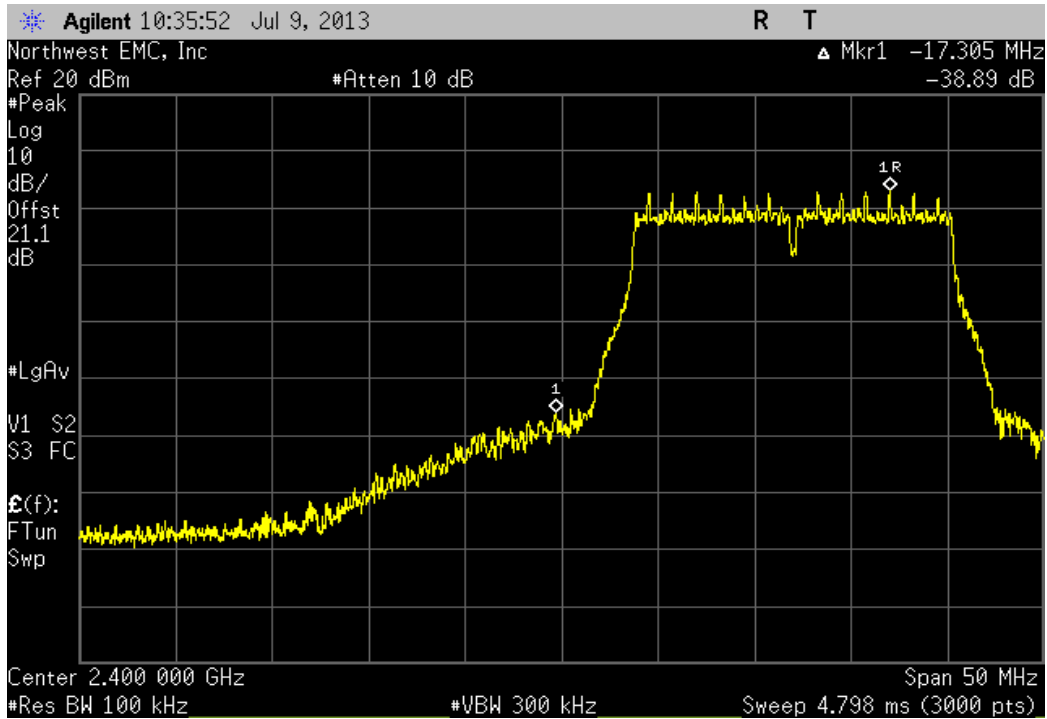
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-61.97 dBc	≤ -20 dBc	Pass



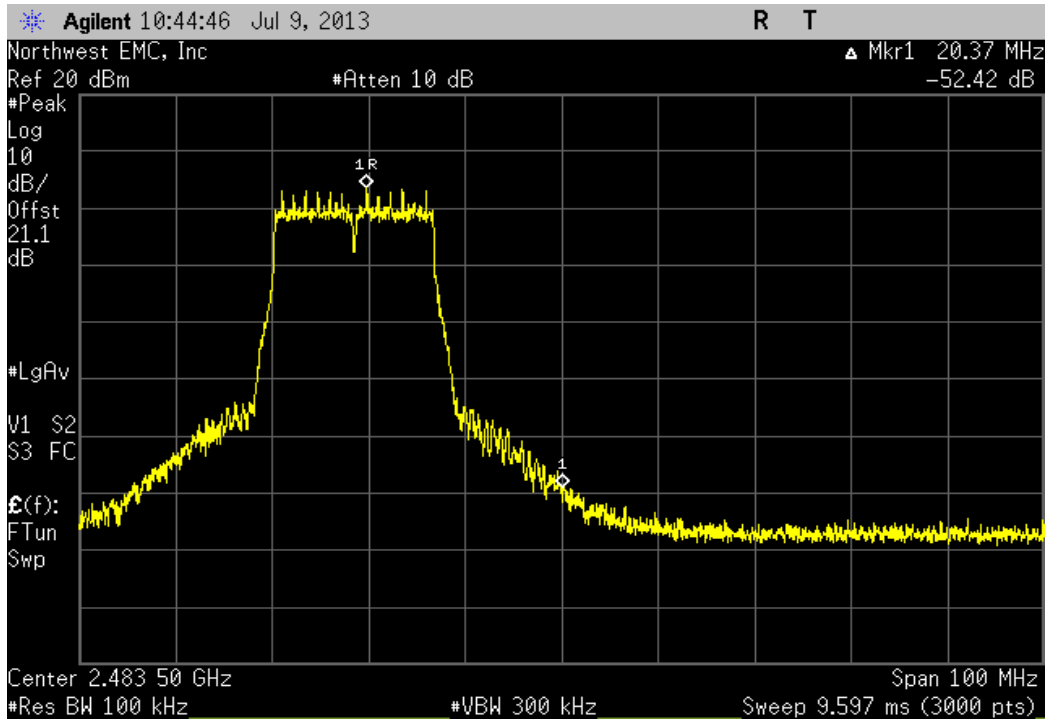
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-38.89 dBc	≤ -20 dBc	Pass



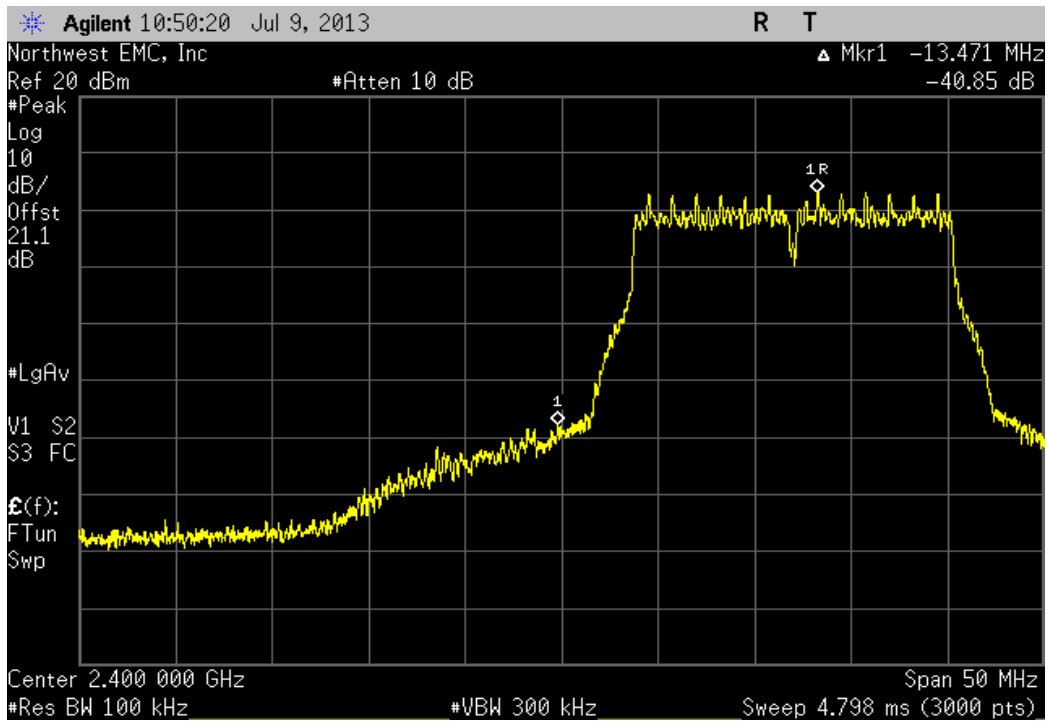
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-52.42 dBc	≤ -20 dBc	Pass



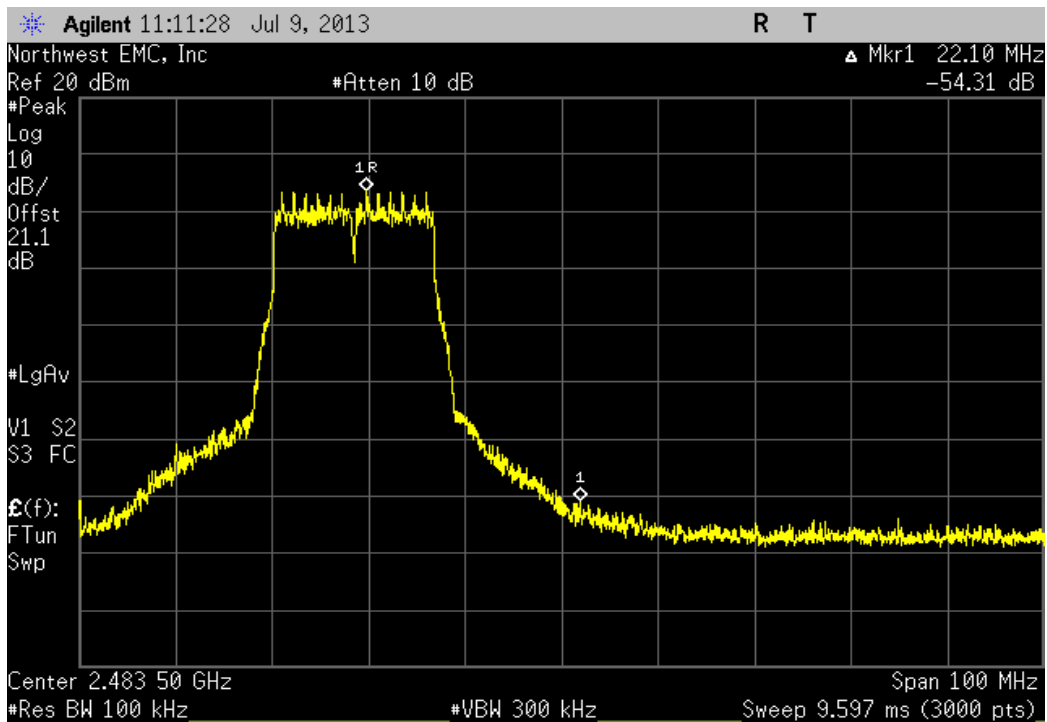
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-40.85 dBc	≤ -20 dBc	Pass



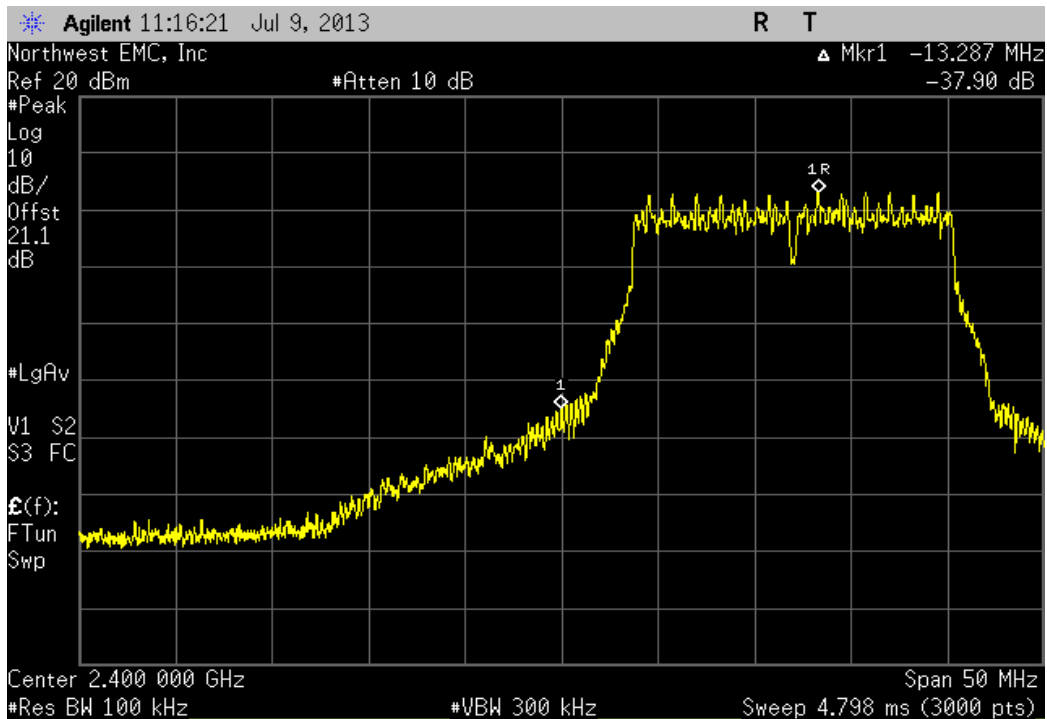
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-54.31 dBc	≤ -20 dBc	Pass



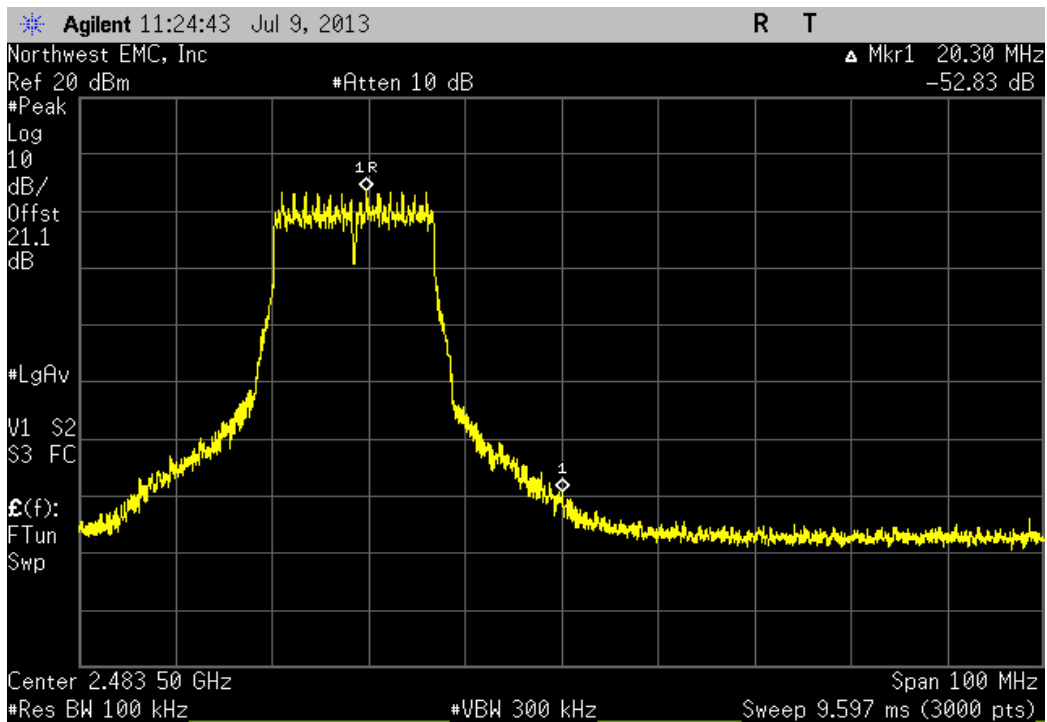
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-37.9 dBc	≤ -20 dBc	Pass



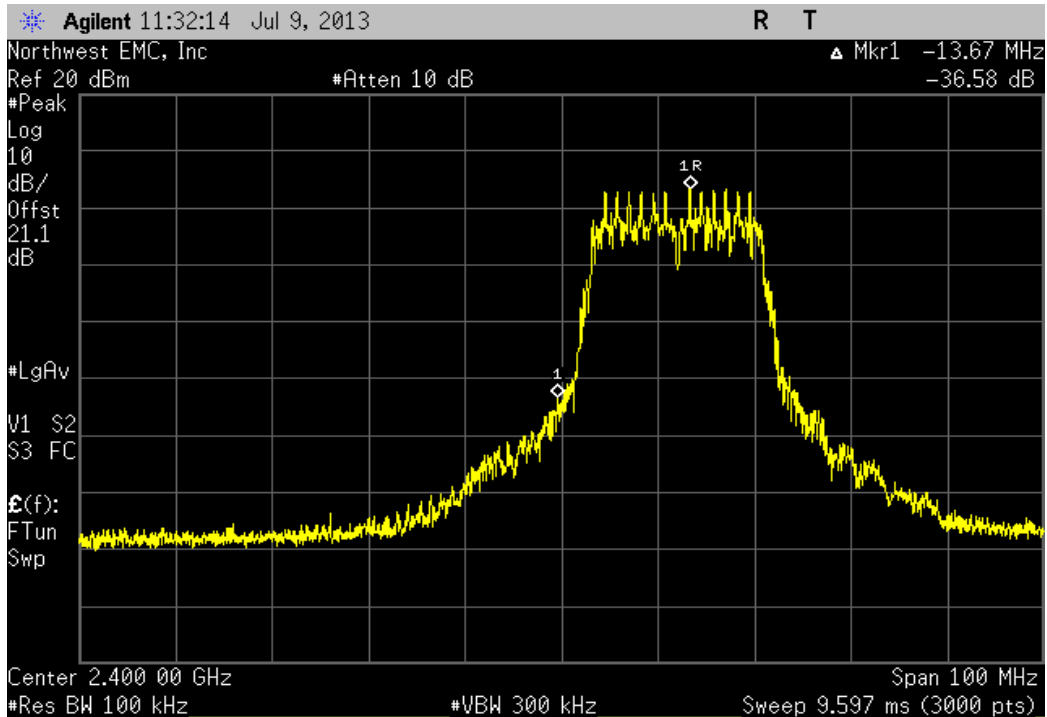
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-52.83 dBc	≤ -20 dBc	Pass



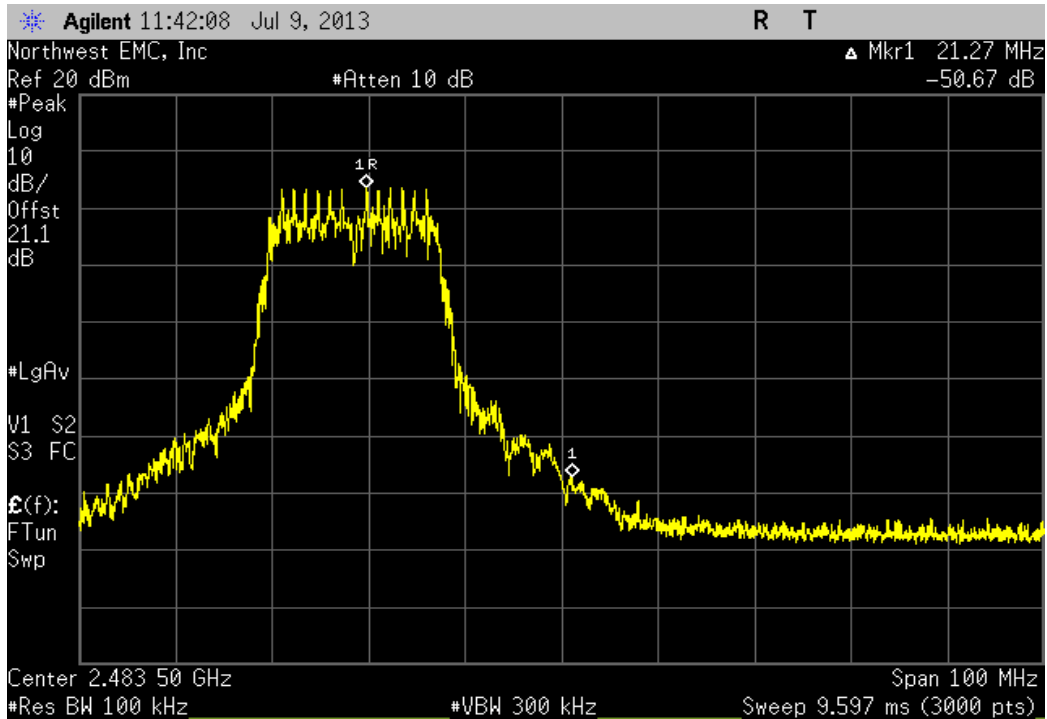
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value	Limit	Result
-36.58 dBc	≤ -20 dBc	Pass



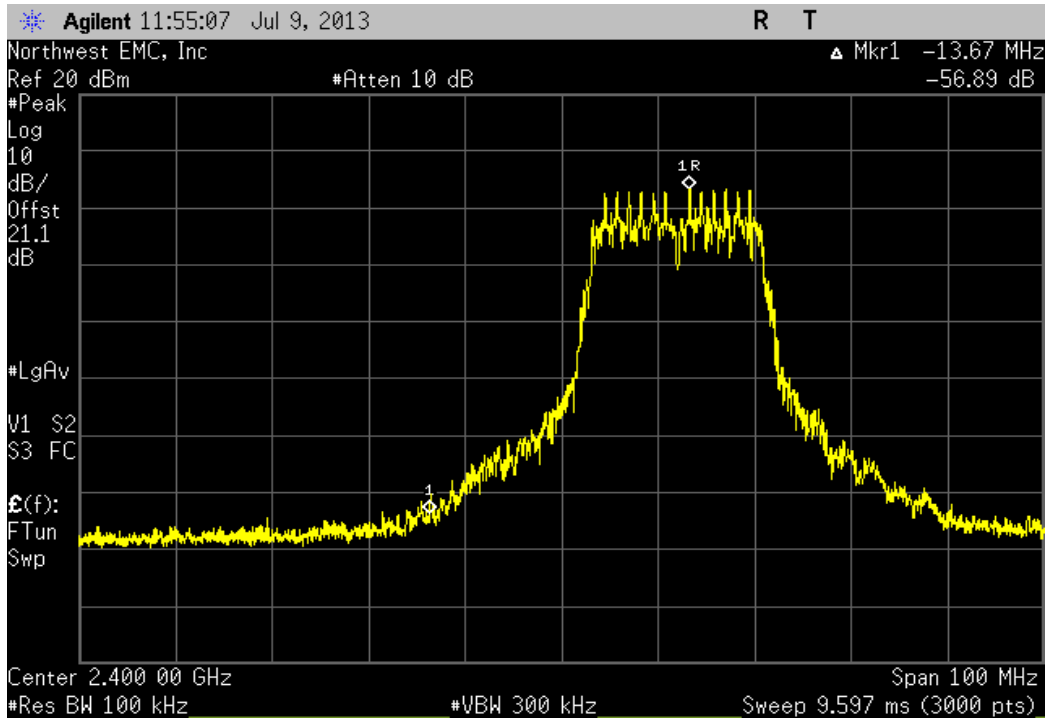
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value	Limit	Result
-50.68 dBc	≤ -20 dBc	Pass



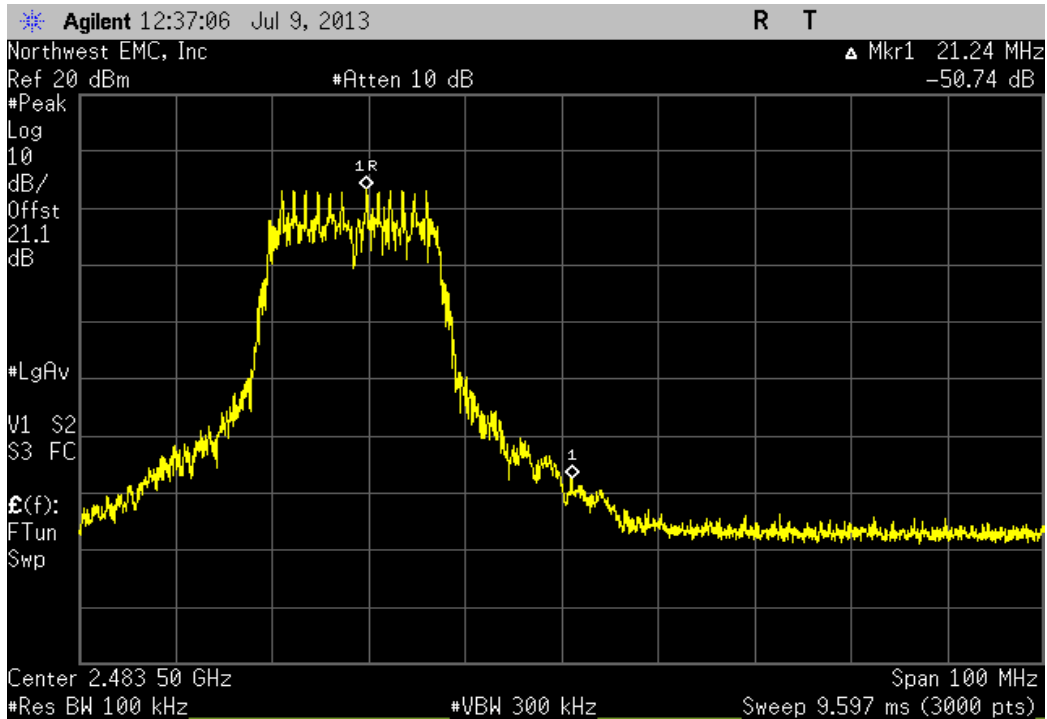
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value	Limit	Result
-56.89 dBc	≤ -20 dBc	Pass



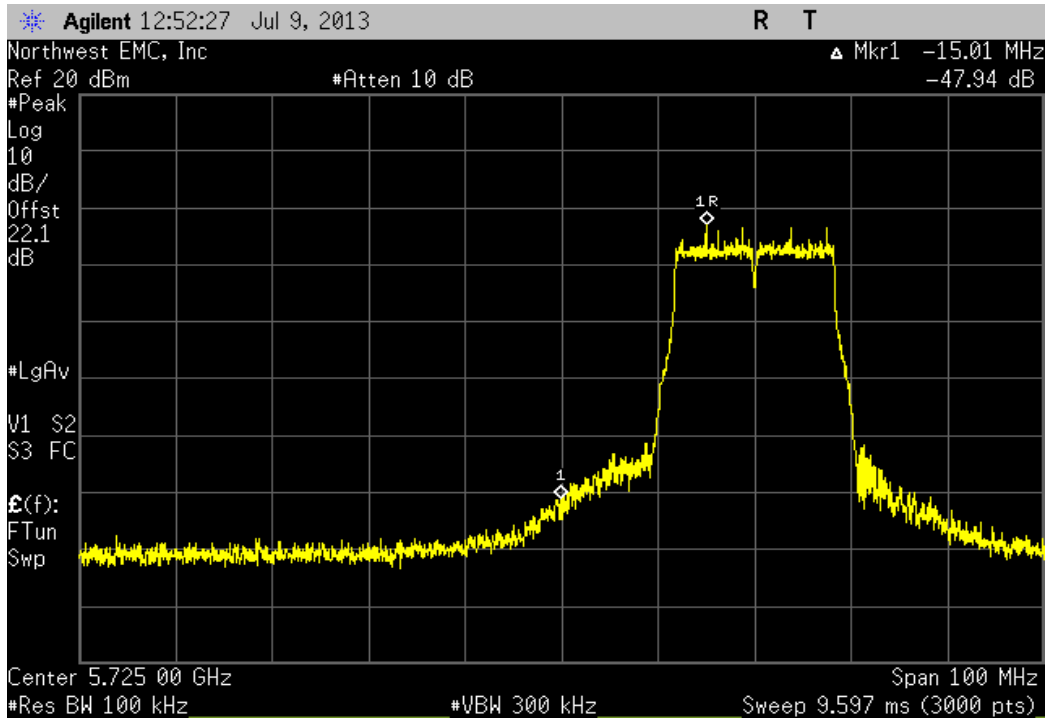
20 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value	Limit	Result
-50.74 dBc	≤ -20 dBc	Pass



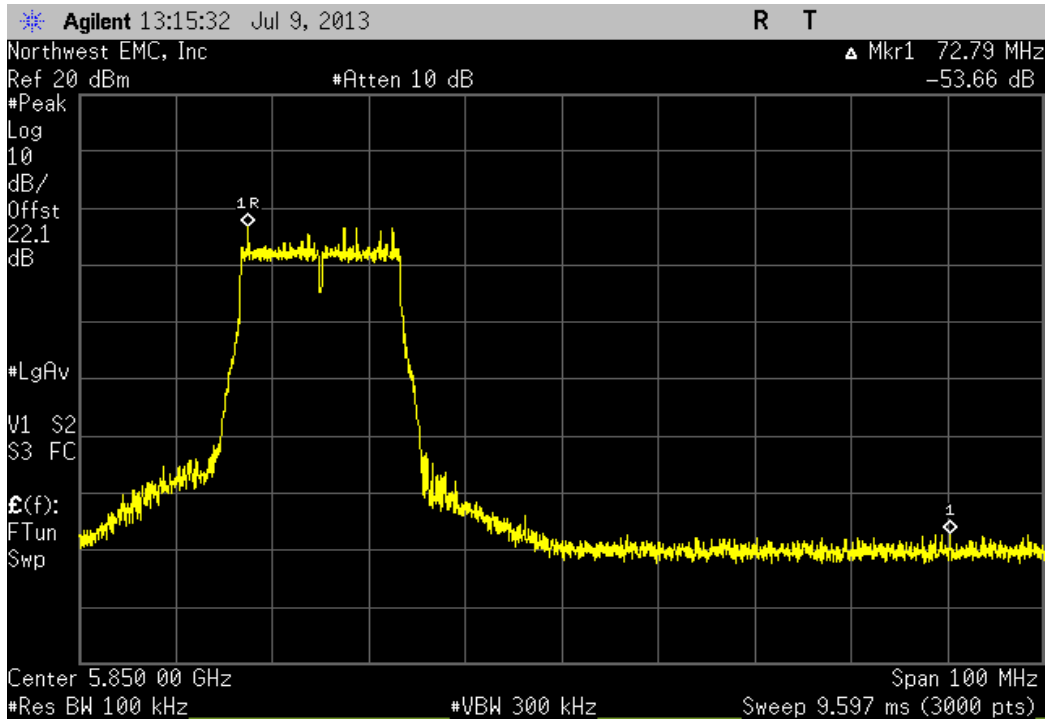
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-47.94 dBc	≤ -20 dBc	Pass



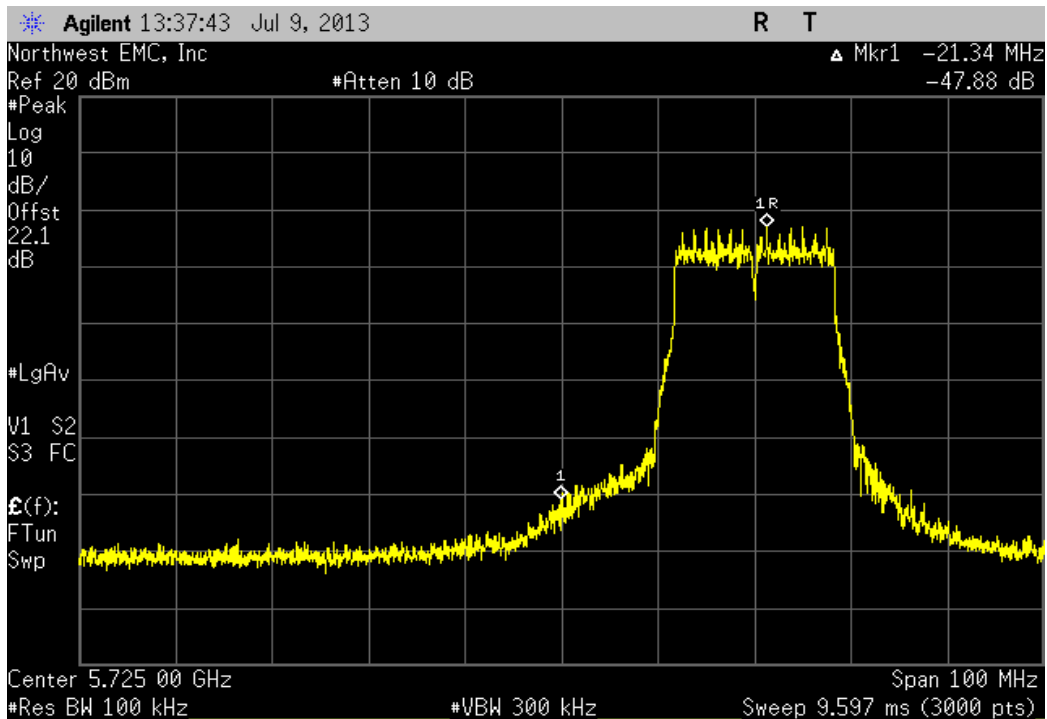
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-53.66 dBc	≤ -20 dBc	Pass



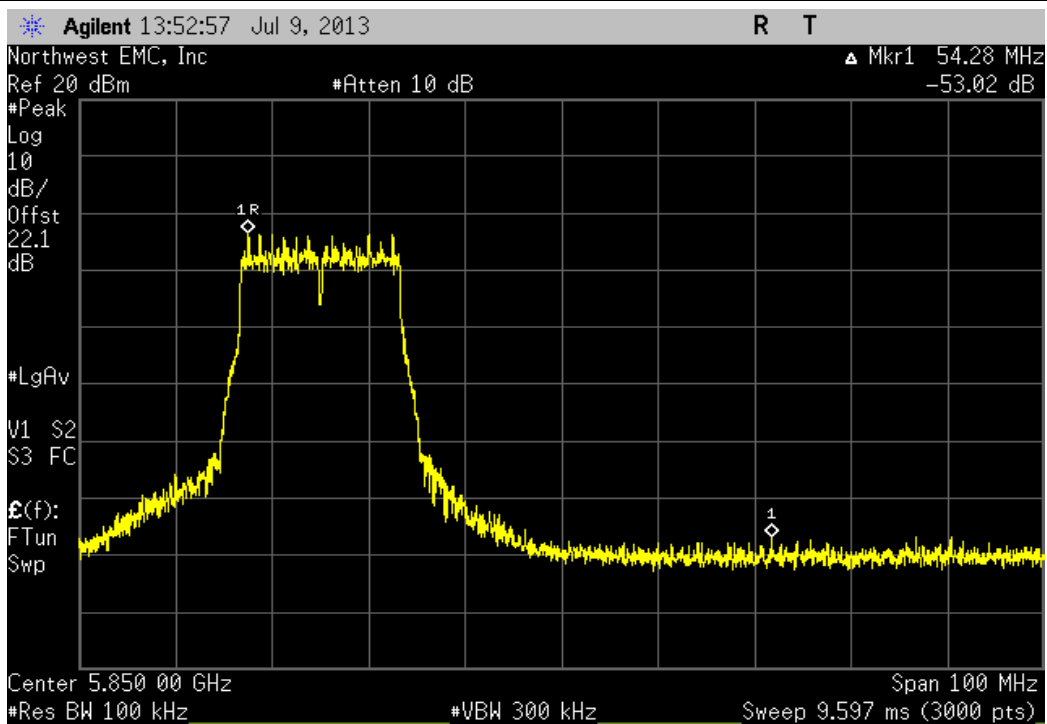
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-47.88 dBc	≤ -20 dBc	Pass



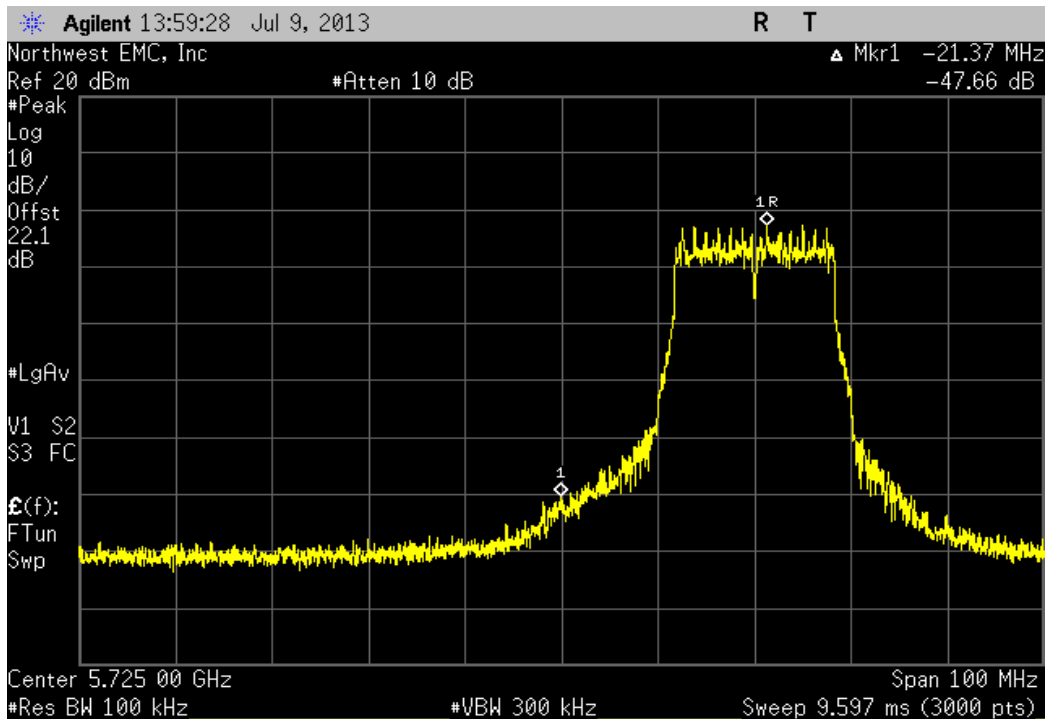
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-53.02 dBc	≤ -20 dBc	Pass



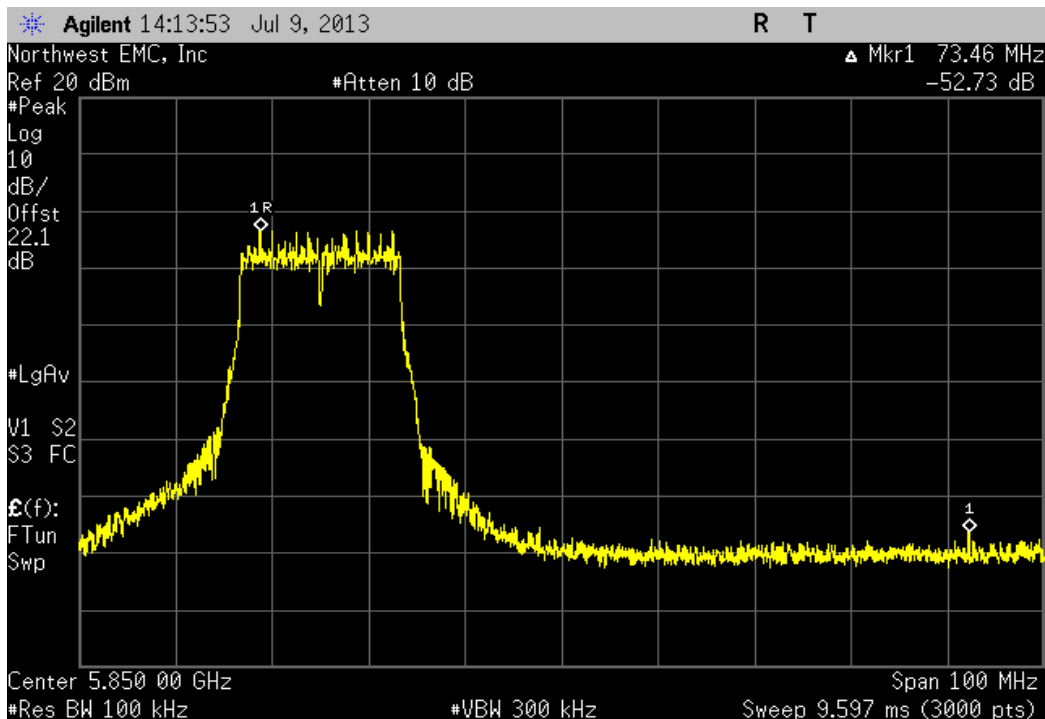
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

Value	Limit	Result
-47.66 dBc	≤ -20 dBc	Pass



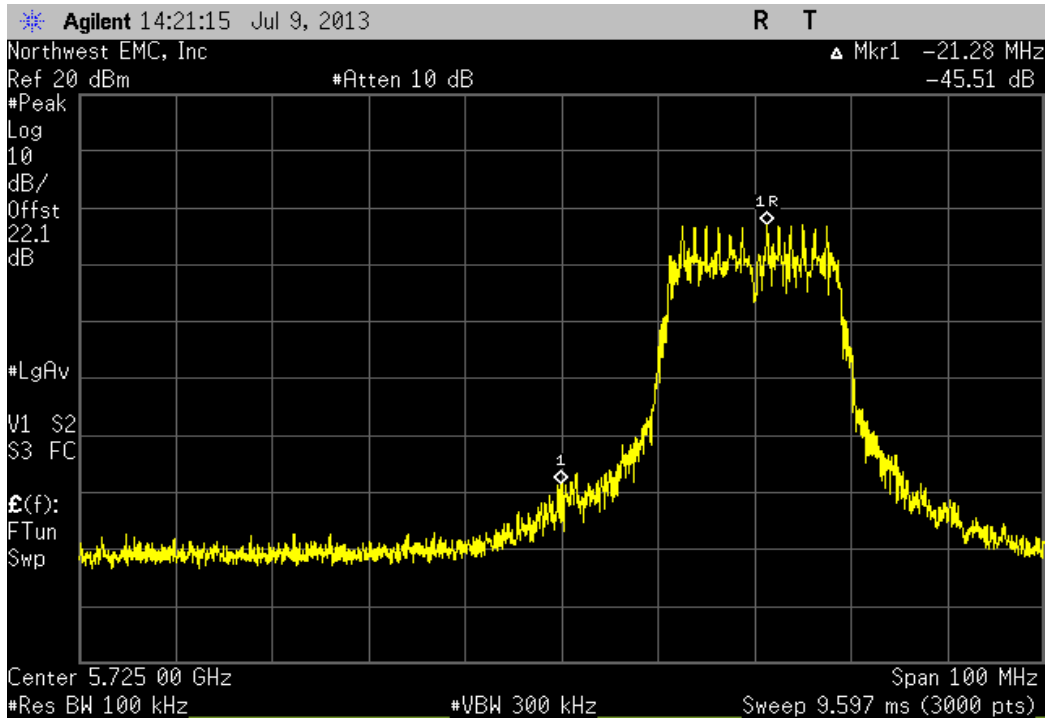
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

Value	Limit	Result
-52.73 dBc	≤ -20 dBc	Pass



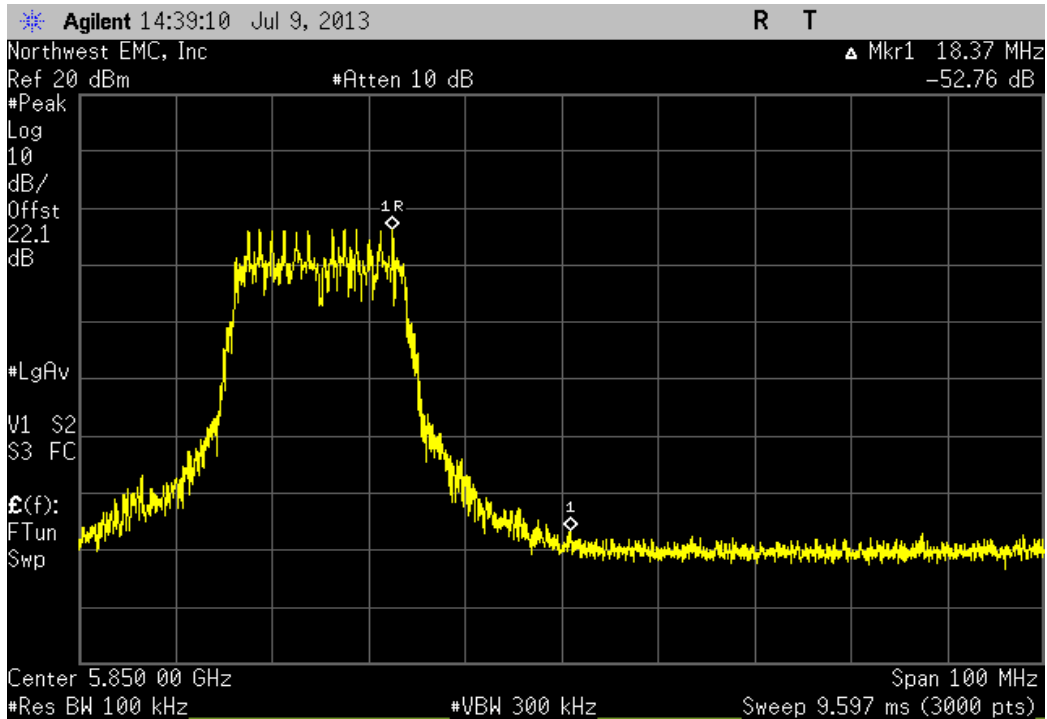
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149, 5745 MHz

				Value	Limit	Result
				-45.51 dBc	≤ -20 dBc	Pass



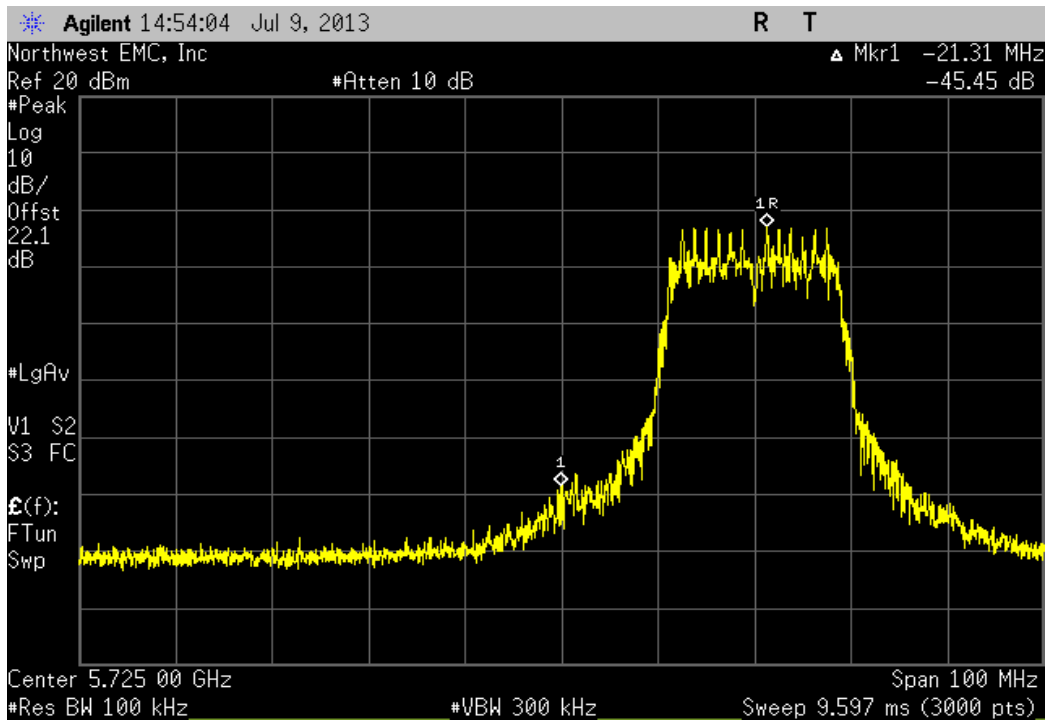
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 165, 5825 MHz

				Value	Limit	Result
				-52.76 dBc	≤ -20 dBc	Pass



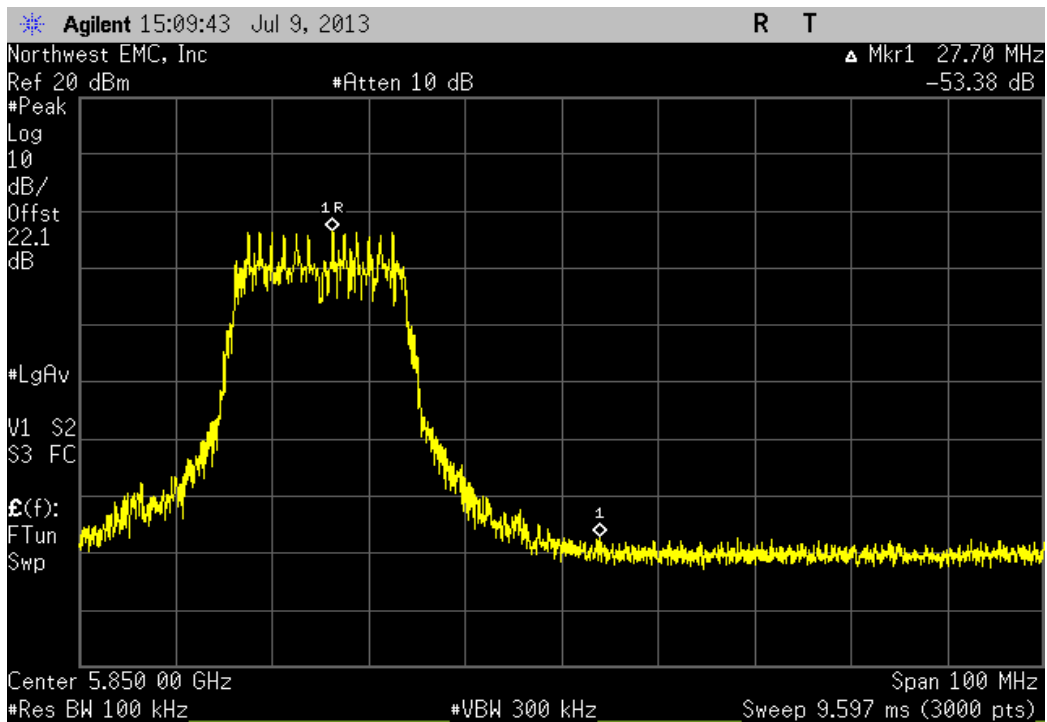
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149, 5745 MHz

Value	Limit	Result
-45.45 dBc	≤ -20 dBc	Pass



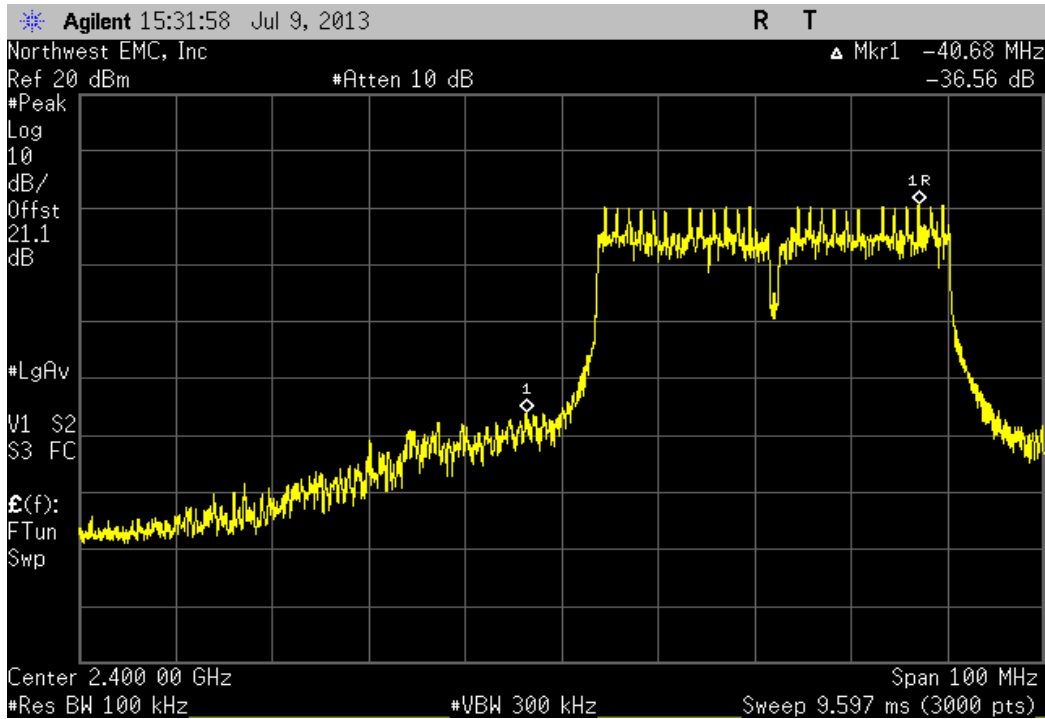
20 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 165, 5825 MHz

Value	Limit	Result
-53.38 dBc	≤ -20 dBc	Pass



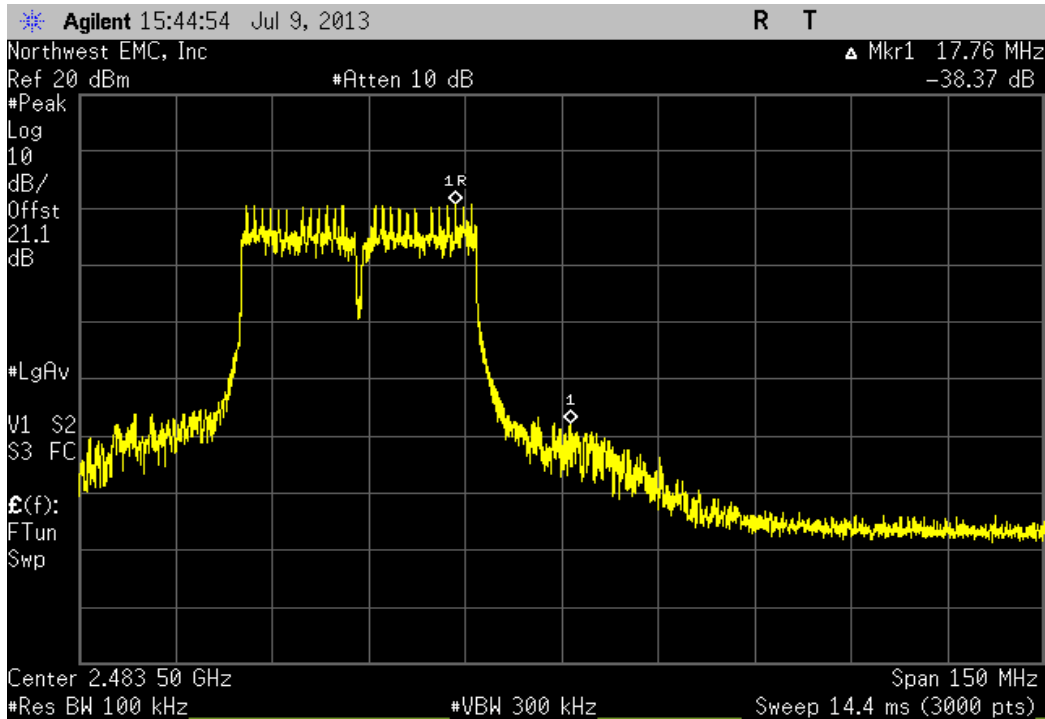
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-36.56 dBc	≤ -20 dBc	Pass



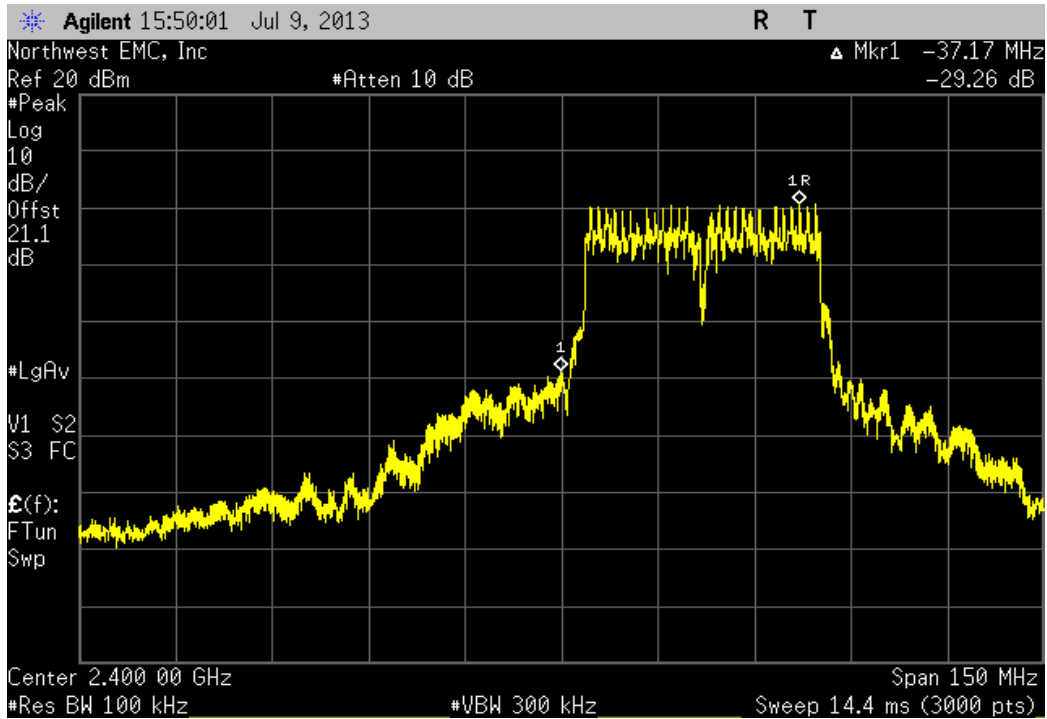
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 7/11, 2452 MHz

Value	Limit	Result
-38.37 dBc	≤ -20 dBc	Pass



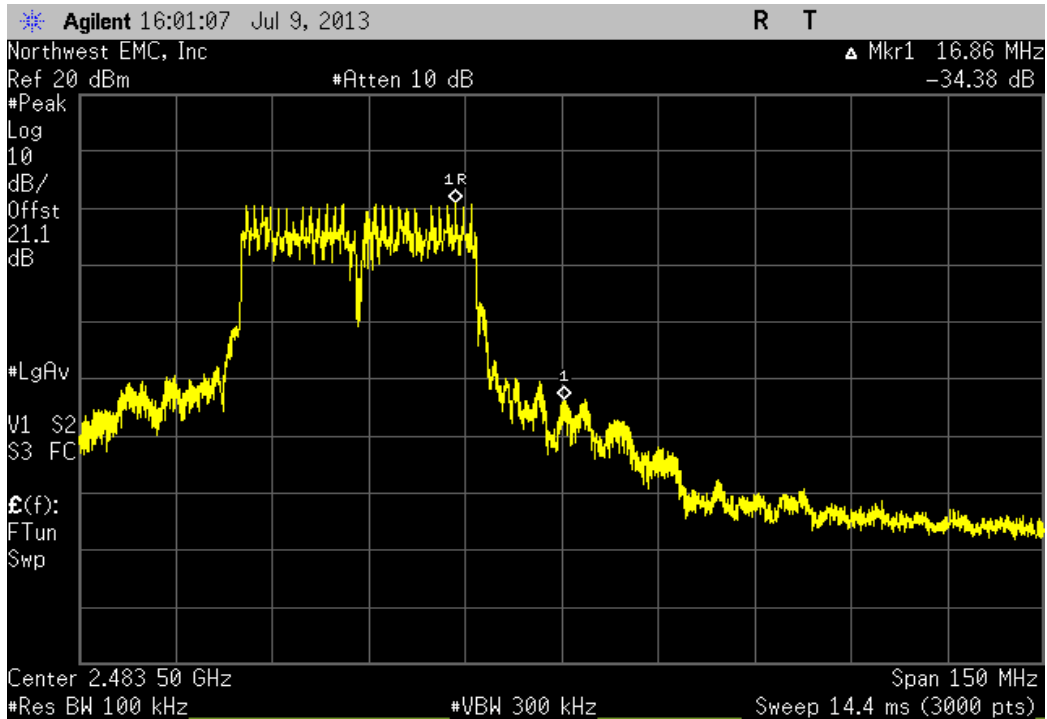
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz

Value	Limit	Result
-29.26 dBc	≤ -20 dBc	Pass



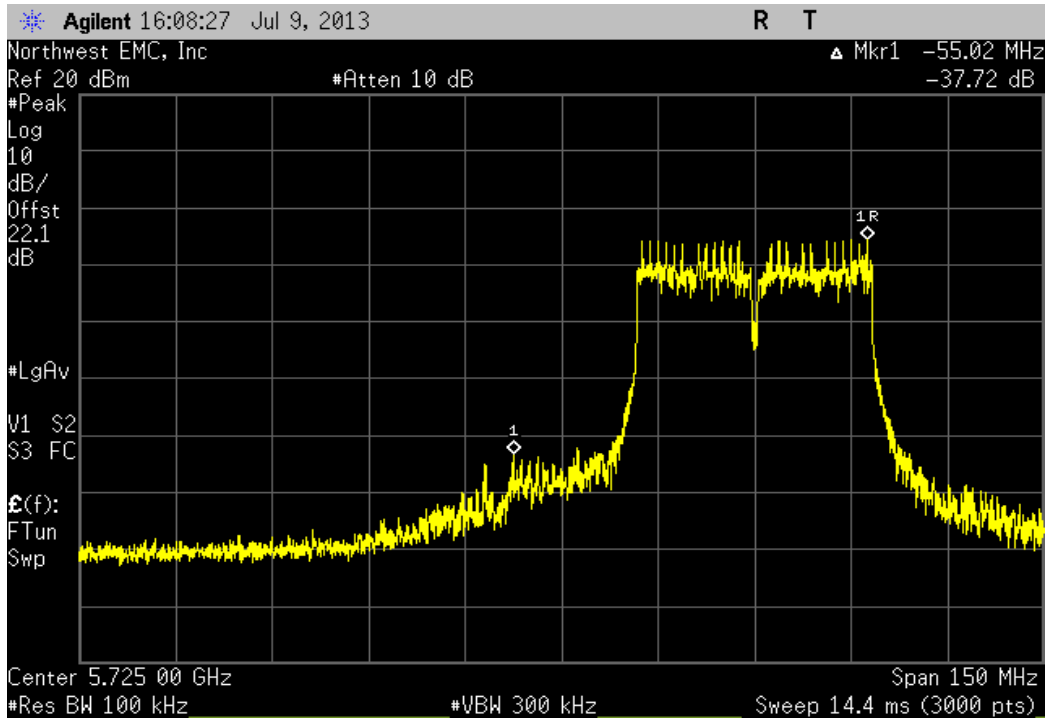
40 MHz, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 7/11, 2452 MHz

Value	Limit	Result
-34.38 dBc	≤ -20 dBc	Pass



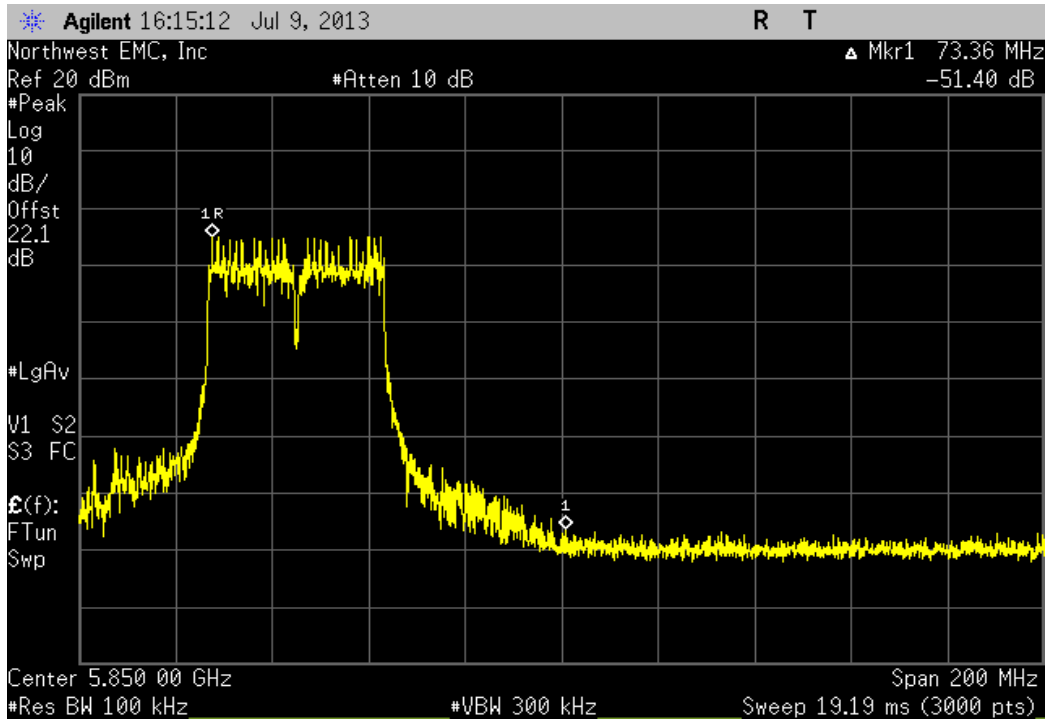
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, Low Channel 149/153, 5755 MHz

Value	Limit	Result
-37.72 dBc	≤ -20 dBc	Pass



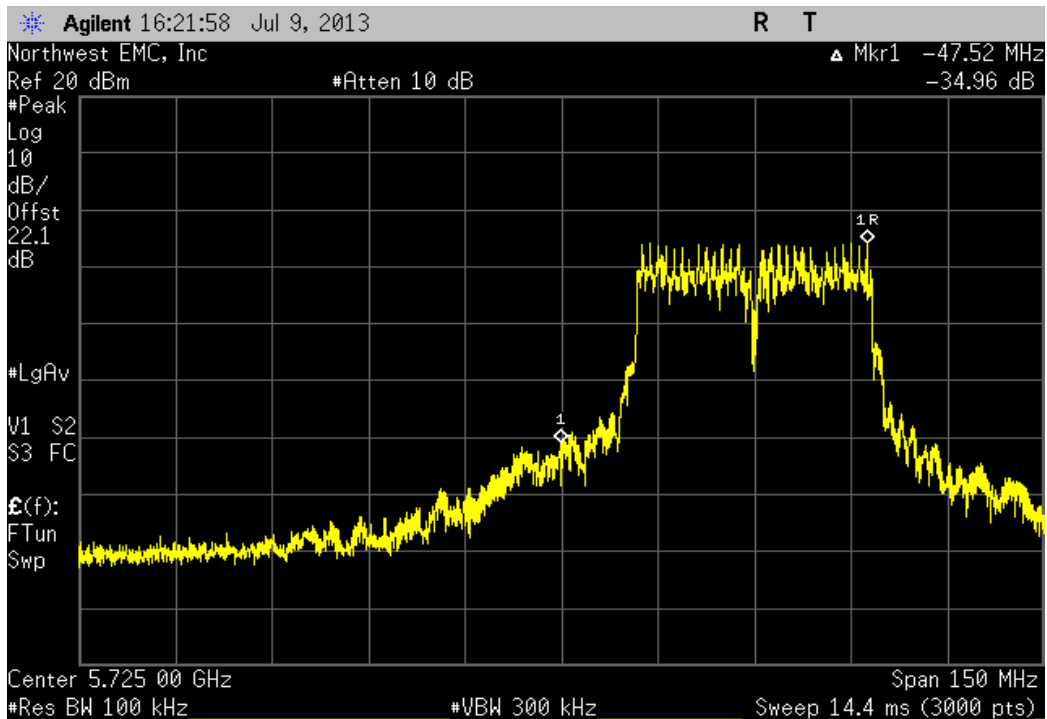
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS0 - UNII, High Channel 157/161, 5795 MHz

Value	Limit	Result
-51.4 dBc	≤ -20 dBc	Pass



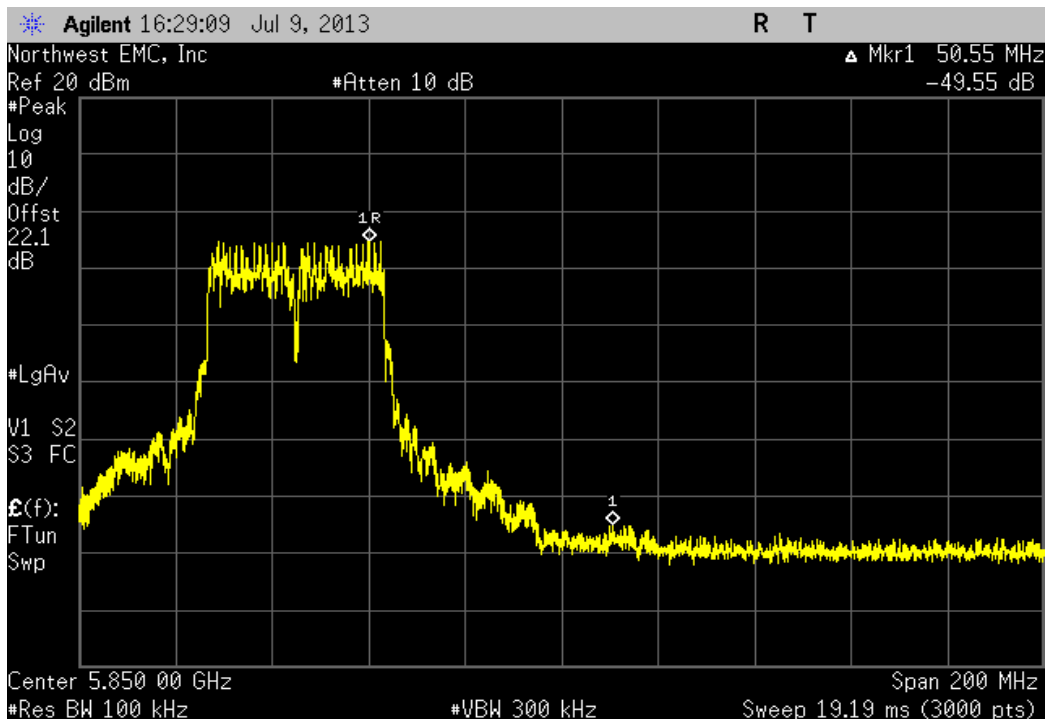
40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, Low Channel 149/153, 5755 MHz

Value	Limit	Result
-34.96 dBc	≤ -20 dBc	Pass



40 MHz, 5725 MHz - 5850 MHz Band, 802.11(n) MCS7 - UNII, High Channel 157/161, 5795 MHz

Value	Limit	Result
-49.55 dBc	≤ -20 dBc	Pass



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

MODES OF OPERATION, 2.4 GHz Band

802.11(b), 1 Mbps
802.11(b), 11 Mbps
802.11(g), 6 Mbps
802.11(g), 36 Mbps
802.11(g), 54 Mbps
802.11(n), MCS0
802.11(n), MCS7
802.11(n), MCS8
802.11(n), MCS15

CHANNELS TESTED, 2.4 GHz BAND, 20 MHz CHANNEL BANDWIDTH

Low Channel 1, 2412 MHz
Mid Channel 6, 2437 MHz
High Channel 11, 2462 MHz

CHANNELS TESTED, 2.4 GHz BAND, 40 MHz CHANNEL BANDWIDTH

Low Channel 1/5, 2422 MHz
Mid Channel 4/8, 2437 MHz
High Channel 7/11, 2452 MHz

CONFIGURATIONS INVESTIGATED

MCSO1665 - 2
MCSO1665 - 5

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	25000 MHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Fairview Microwave	SA18E-20	AQV	1/18/2013	12 mo
HP Filter	Micro-Tronics	HPM50111	HHI	1/18/2013	24 mo
LP Filter	Micro-Tronics	LPM50004	LFF	10/16/2012	24 mo
Attenuator, 'N'	S.M. Electronics	SA3N-20	REG	1/17/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOD	7/10/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOJ	12/14/2012	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOK	12/14/2012	12 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVZ	12/13/2012	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAB	12/13/2012	12 mo
Antenna, Horn	ETS	3160-09	AIY	NCR	0 mo
Antenna, Horn	EMCO	3160-08	AHO	NCR	0 mo
Antenna, Horn	EMCO	3160-07	AHP	NCR	0 mo
Antenna, Horn	EMCO	3115	AHM	6/19/2012	24 mo
Antenna, Biconilog	EMCO	3142	AXJ	5/16/2012	36 mo
Cable I	N/A	Standard Gain Horn Cable	SUM	7/10/2013	12 mo
NC01 Cables	N/A	Standard Gain Horn Cable	NC3	12/14/2012	12 mo

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
NC01 Cables	N/A	3115 Horn Cable	NC2	12/13/2012	12 mo
NC01 Cables	N/A	Bilog Cables	NC1	12/13/2012	12 mo
Spectrum Analyzer	Agilent	E4440A	AAW	2/21/2013	24 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/11/2012	12 mo
Cable	ESM Cable Corp.	KMKM-72	EVY	9/11/2012	12 mo
Antenna, Horn	ETS Lindgren	3160-10	AIW	NCR	0 mo
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVR	6/24/2013	12 mo
OC Cable	ESM Cable Corp.	KMKM-72	OCV	6/24/2013	12 mo
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24 mo

MEASUREMENT BANDWIDTHS

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

TEST DESCRIPTION

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

The power level used while under test for the 2.4 GHz band, 20 MHz and 40 MHz bandwidths was set at 16 dBm unless otherwise noted. All average measurements above 1 GHz were performed using a RMS Average Detector, except for measurements made at the 2483.5 MHz restricted band edge, where an average detector employing a 10 Hz VBW was used as per FCC KDB 913591. The EUT was transmitting at a 100% duty cycle for the duration of the test.



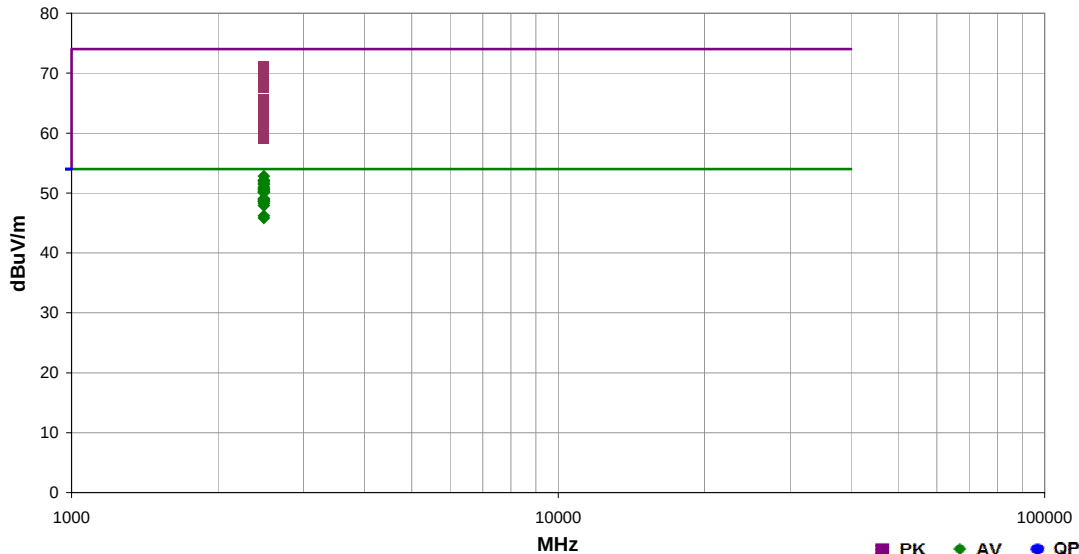
SPURIOUS RADIATED EMISSIONS - 2.4 GHz Band

PSA-ESCI 2012.12.14
EmiRS 2013.05.31

Work Order:	MCSO1665	Date:	07/15/13		
Project:	None	Temperature:	25 °C		
Job Site:	NC01	Humidity:	38% RH		
Serial Number:	6079632553	Barometric Pres.:	1017 mbar	Tested by:	Richard Mellroth
EUT:	1601				
Configuration:	2				
Customer:	Microsoft Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting at 100% Duty Cycle, 802.11 b/g/n				
Deviations:	None				
Comments:	2483.5 MHz restricted band edge measurements, 20 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain				

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

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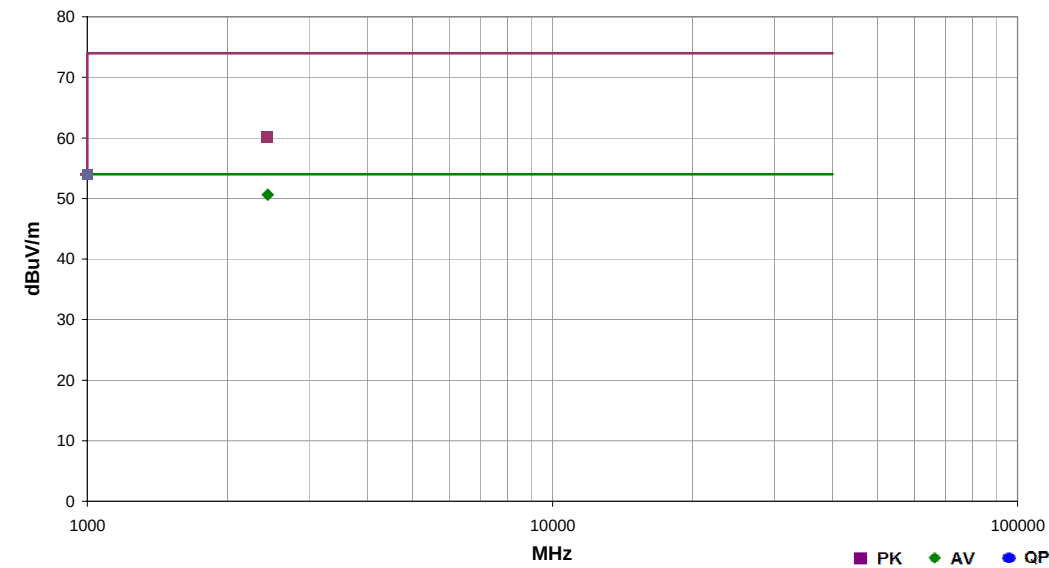


Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2483.533	34.3	-1.5	1.3	196.0	3.0	20.0	Horz	AV	0.0	52.8	54.0	-1.2	Ch 11, EUT Vert, Ant A, 6 Mbps
2483.503	33.6	-1.5	1.2	32.0	3.0	20.0	Horz	AV	0.0	52.1	54.0	-1.9	Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg
2483.500	33.6	-1.5	1.1	30.0	3.0	20.0	Horz	AV	0.0	52.1	54.0	-1.9	Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg
2483.500	33.4	-1.5	1.1	329.0	3.0	20.0	Horz	AV	0.0	51.9	54.0	-2.1	Ch 1, EUT Horz, Ant A, 6 Mbps, 10Hz Avg
2483.503	33.1	-1.5	1.2	325.0	3.0	20.0	Vert	AV	0.0	51.6	54.0	-2.4	Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg
2483.590	32.9	-1.5	1.2	260.0	3.0	20.0	Vert	AV	0.0	51.4	54.0	-2.6	Ch 11, EUT Flat, Ant AB, 6 Mbps
2483.567	52.5	-1.5	1.2	32.0	3.0	20.0	Horz	PK	0.0	71.0	74.0	-3.0	Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg
2483.510	52.5	-1.5	1.2	31.0	3.0	20.0	Horz	PK	0.0	71.0	74.0	-3.0	Ch 11, EUT Horz, Ant B, 6 Mbps
2483.507	32.5	-1.5	1.2	332.0	3.0	20.0	Vert	AV	0.0	51.0	54.0	-3.0	Ch 11, EUT Horz, Ant A, 6 Mbps, 10Hz Avg
2483.563	52.4	-1.5	1.1	30.0	3.0	20.0	Horz	PK	0.0	70.9	74.0	-3.1	Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg
2483.500	32.3	-1.5	1.2	134.0	3.0	20.0	Vert	AV	0.0	50.8	54.0	-3.2	Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg
2483.503	52.3	-1.5	1.1	327.0	3.0	20.0	Horz	PK	0.0	70.8	74.0	-3.2	Ch 11, EUT Horz, Ant A, 6 Mbps
2483.717	52.2	-1.5	1.4	277.0	3.0	20.0	Horz	PK	0.0	70.7	74.0	-3.3	Ch 11, EUT Horz, Ant B, MCS7
2483.520	32.2	-1.5	1.2	359.0	3.0	20.0	Vert	AV	0.0	50.7	54.0	-3.3	Ch 11, EUT Flat, Ant A, 6 Mbps
2483.677	52.1	-1.5	1.1	329.0	3.0	20.0	Horz	PK	0.0	70.6	74.0	-3.4	Ch 11, EUT Horz, Ant A, 6 Mbps, 10Hz Avg
2483.500	32.0	-1.5	1.4	277.0	3.0	20.0	Horz	AV	0.0	50.5	54.0	-3.5	Ch 11, EUT Horz, Ant B, MCS7, 10Hz Avg
2483.517	31.8	-1.5	2.5	112.0	3.0	20.0	Horz	AV	0.0	50.3	54.0	-3.7	Ch 11, EUT Flat, Ant A, 6 Mbps
2484.117	31.7	-1.5	1.6	0.0	3.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	Ch 11, EUT Vert, Ant AB, 6 Mbps
2483.583	51.7	-1.5	1.2	325.0	3.0	20.0	Vert	PK	0.0	70.2	74.0	-3.8	Ch 11, EUT Horz, Ant B, 6 Mbps, 10Hz Avg
2483.507	51.7	-1.5	1.1	273.0	3.0	20.0	Horz	PK	0.0	70.2	74.0	-3.8	Ch 11, EUT Horz, Ant B, MCS0
2483.500	31.6	-1.5	1.1	273.0	3.0	20.0	Horz	AV	0.0	50.1	54.0	-3.9	Ch 11, EUT Horz, Ant B, MCS0, 10Hz Avg
2483.557	31.6	-1.5	1.2	244.0	3.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	Ch 11, EUT Flat, Ant B, 6 Mbps
2483.813	51.3	-1.5	1.2	326.0	3.0	20.0	Vert	PK	0.0	69.8	74.0	-4.2	Ch 11, EUT Horz, Ant AB, 6 Mbps
2483.530	51.2	-1.5	1.2	331.0	3.0	20.0	Vert	PK	0.0	69.7	74.0	-4.3	Ch 11, EUT Horz, Ant B, 6 Mbps
2483.523	51.2	-1.5	1.2	324.0	3.0	20.0	Vert	PK	0.0	69.7	74.0	-4.3	Ch 11, EUT Horz, Ant A, 6 Mbps
2483.643	51.0	-1.5	1.2	332.0	3.0	20.0	Vert	PK	0.0	69.5	74.0	-4.5	Ch 11, EUT Horz, Ant A, 6 Mbps, 10Hz Avg
2483.513	50.9	-1.5	1.1	29.0	3.0	20.0	Horz	PK	0.0	69.4	74.0	-4.6	Ch 11, EUT Horz, Ant AB, 6 Mbps
2483.580	50.8	-1.5	1.2	134.0	3.0	20.0	Vert	PK	0.0	69.3	74.0	-4.7	Ch 11, EUT Horz, Ant AB, 6 Mbps, 10Hz Avg
2483.500	30.6	-1.5	1.2	126.0	3.0	20.0	Vert	AV	0.0	49.1	54.0	-4.9	Ch 11, EUT Vert, Ant B, 6 Mbps
2483.607	30.4	-1.5	1.2	4.0	3.0	20.0	Horz	AV	0.0	48.9	54.0	-5.1	Ch 11, EUT Vert, Ant A, 6 Mbps
2484.410	30.3	-1.5	1.2	121.0	3.0	20.0	Vert	AV	0.0	48.8	54.0	-5.2	Ch 11, EUT Vert, Ant AB, 6 Mbps
2483.810	30.1	-1.5	1.2	285.0	3.0	20.0	Vert	AV	0.0	48.6	54.0	-5.4	Ch 11, EUT Vert, Ant A, 6 Mbps
2483.530	30.1	-1.5	1.2	273.0	3.0	20.0	Horz	AV	0.0	48.6	54.0	-5.4	Ch 11, EUT Horz, Ant B, 54 Mbps, 10Hz Avg
2483.500	30.1	-1.5	1.1	274.0	3.0	20.0	Horz	AV	0.0	48.6	54.0	-5.4	Ch 11, EUT Horz, Ant B, 36 Mbps, 10Hz Avg

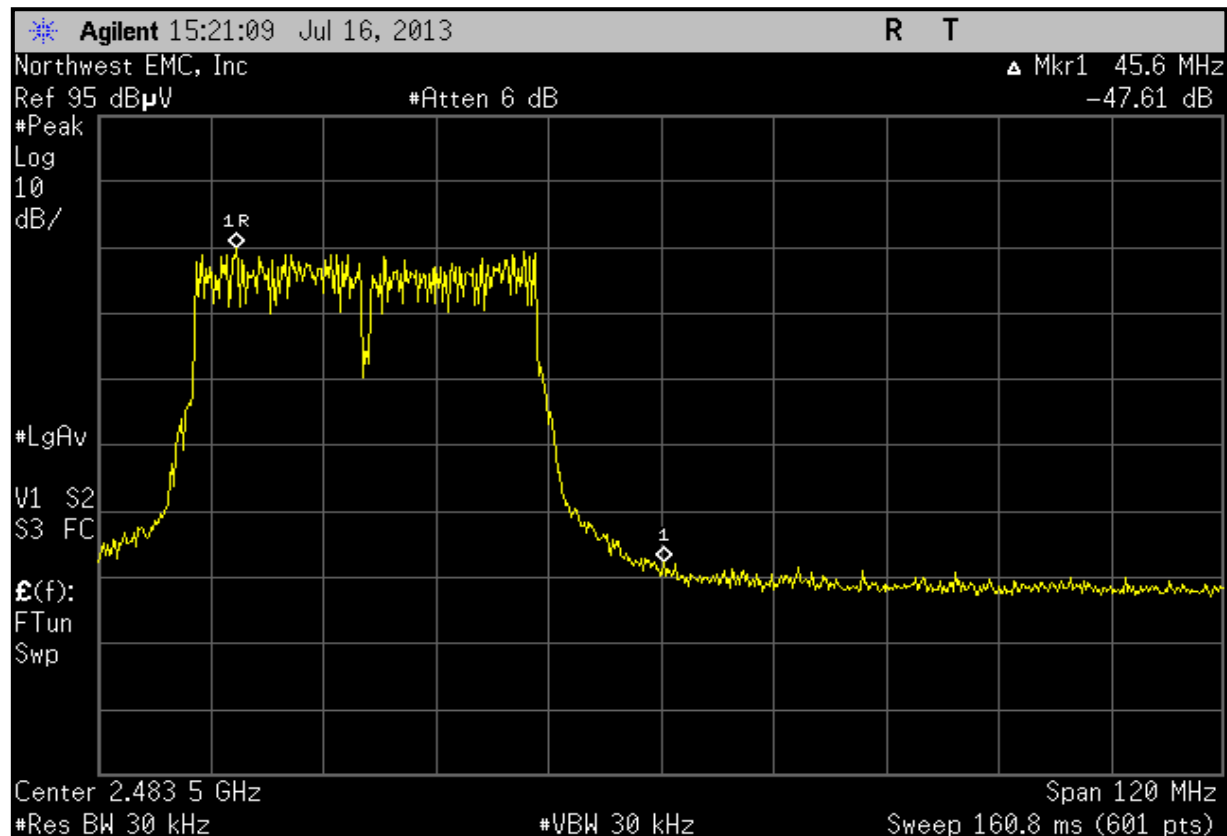
Freq (MHz)	Amplitude (dBuV)	Preamplifier (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2483.583	29.8	-1.5	1.2	281.0	3.0	20.0	Horz	AV	0.0	48.3	54.0	-5.7	Ch 11, EUT Flat, Ant AB, 6 Mbps
2483.633	49.6	-1.5	1.2	273.0	3.0	20.0	Horz	PK	0.0	68.1	74.0	-5.9	Ch 11, EUT Horz, Ant B, 54 Mbps
2485.083	29.4	-1.5	1.2	166.0	3.0	20.0	Horz	AV	0.0	47.9	54.0	-6.1	Ch 11, EUT Flat, Ant B, 6 Mbps
2483.550	49.1	-1.5	1.2	260.0	3.0	20.0	Vert	PK	0.0	67.6	74.0	-6.4	Ch 11, EUT Flat, Ant AB, 6 Mbps
2483.560	49.1	-1.5	1.3	196.0	3.0	20.0	Horz	PK	0.0	67.6	74.0	-6.4	Ch 11, EUT Vert, Ant A, 6 Mbps
2484.153	27.7	-1.5	1.2	283.0	3.0	20.0	Horz	AV	0.0	46.2	54.0	-7.8	Ch 11, EUT Horz, Ant B, 11 Mbps 10Hz Avg
2484.160	27.3	-1.5	1.2	295.0	3.0	20.0	Horz	AV	0.0	45.8	54.0	-8.2	Ch 11, EUT Horz, Ant B, 1 Mbps, 10Hz Avg
2485.240	47.0	-1.5	1.6	0.0	3.0	20.0	Horz	PK	0.0	65.5	74.0	-8.5	Ch 11, EUT Vert, Ant AB, 6 Mbps
2485.260	47.0	-1.5	1.1	274.0	3.0	20.0	Horz	PK	0.0	65.5	74.0	-8.5	Ch 11, EUT Horz, Ant B, 36 Mbps
2483.707	46.9	-1.5	1.2	359.0	3.0	20.0	Vert	PK	0.0	65.4	74.0	-8.6	Ch 11, EUT Flat, Ant A, 6 Mbps
2483.940	46.7	-1.5	1.2	244.0	3.0	20.0	Vert	PK	0.0	65.2	74.0	-8.8	Ch 11, EUT Flat, Ant B, 6 Mbps
2483.540	46.4	-1.5	2.5	112.0	3.0	20.0	Horz	PK	0.0	64.9	74.0	-9.1	Ch 11, EUT Flat, Ant A, 6 Mbps
2483.553	44.8	-1.5	1.2	126.0	3.0	20.0	Vert	PK	0.0	63.3	74.0	-10.7	Ch 11, EUT Vert, Ant B, 6 Mbps
2484.963	44.3	-1.5	1.2	121.0	3.0	20.0	Vert	PK	0.0	62.8	74.0	-11.2	Ch 11, EUT Vert, Ant AB, 6 Mbps
2483.713	44.2	-1.5	1.2	4.0	3.0	20.0	Horz	PK	0.0	62.7	74.0	-11.3	Ch 11, EUT Vert, Ant B, 6 Mbps
2483.510	43.8	-1.5	1.2	283.0	3.0	20.0	Horz	PK	0.0	62.3	74.0	-11.7	Ch 11, EUT Horz, Ant B, 11 Mbps
2484.307	42.6	-1.5	1.2	281.0	3.0	20.0	Horz	PK	0.0	61.1	74.0	-12.9	Ch 11, EUT Flat, Ant AB, 6 Mbps
2483.513	42.2	-1.5	1.2	285.0	3.0	20.0	Vert	PK	0.0	60.7	74.0	-13.3	Ch 11, EUT Vert, Ant A, 6 Mbps
2485.137	40.9	-1.5	1.2	295.0	3.0	20.0	Horz	PK	0.0	59.4	74.0	-14.6	Ch 11, EUT Horz, Ant B, 1 Mbps
2484.927	40.6	-1.5	1.2	166.0	3.0	20.0	Horz	PK	0.0	59.1	74.0	-14.9	Ch 11, EUT Flat, Ant B, 6 Mbps

Work Order:	MCSO1665	Date:	07/16/13	
Project:	None	Temperature:	23 °C	
Job Site:	NC01	Humidity:	42% RH	
Serial Number:	6079632553	Barometric Pres.:	1013 mbar	
EUT:	1601			
Configuration:	2			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting at 100% Duty Cycle, 802.11 b/g/n			
Deviations:	None			
Comments:	2483.5 MHz restricted band edge measurement, delta marker method, 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain			

Test Specifications				Test Method			
FCC 15.247:2013				ANSI C63.10:2009			
Run #	12	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass



Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2442.27	79.8	-1.6	1.2	283.0	3.0	20.0	Horz	AV	0.0	98.23			Fundamental, Ch 7/11, EUT Horz, Ant B
2483.90			1.2	283.0	3.0	20.0	Horz	AV	0.00	50.62	54.0	-3.38	EUT output @ 11dBm, MCS0
2435.93	89.3	-1.6	1.2	283.0	3.0	20.0	Horz	PK	0.0	107.7			Marker Delta Method:
													AV 98.23 - 47.61 dBc = 50.62
2483.90			1.2	283.0	3.0	20.0	Horz	AV	0.00	60.1	74.0	-13.9	Fundamental, Ch 7/11, EUT Horz, Ant B
													EUT output @ 11dBm, MCS0
													Marker Delta Method:
													PK 107.7 - 47.61 dBc = 60.09



Ch 7/11, EUT Horz, Ant B, MCS0, EUT outptu @ 11 dBm



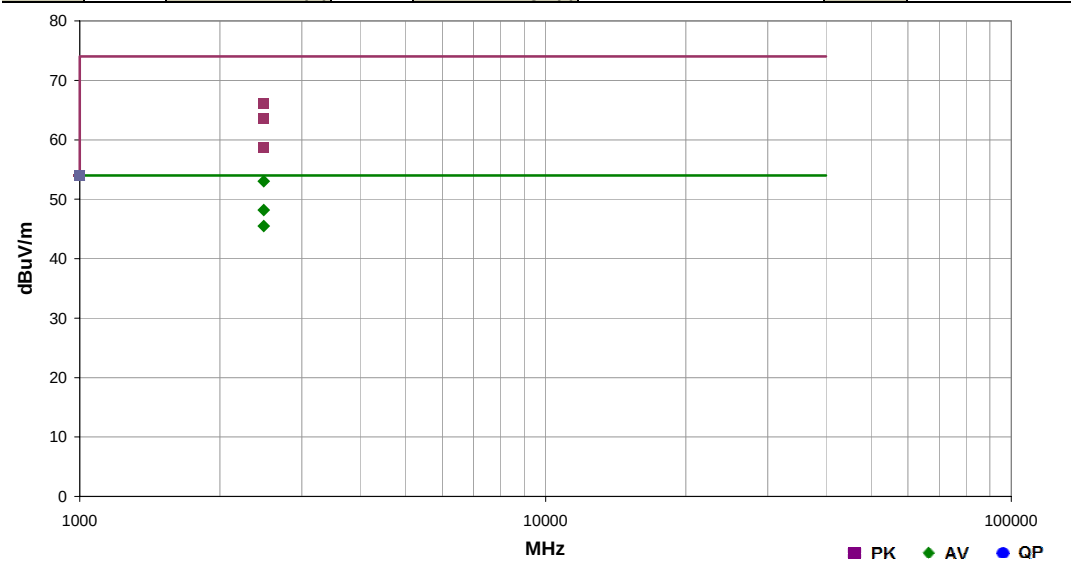
SPURIOUS RADIATED EMISSIONS -
2.4 GHz Band

PSA-ESCI 2012.12.14
EmiR5 2013.05.31

Work Order:	MCSO1665	Date:	07/16/13	
Project:	None	Temperature:	23 °C	
Job Site:	NC01	Humidity:	42% RH	
Serial Number:	6079632553	Barometric Pres.:	1013 mbar	
EUT: 1601				Tested by: Richard Mellroth
Configuration: 2				
Customer: Microsoft Corporation				
Attendees: None				
EUT Power: 110VAC/60Hz				
Operating Mode: Transmitting at 100% Duty Cycle, 802.11 b/g/n				
Deviations: None				
Comments: 2483.5 MHz restricted band edge measurement, 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain				

Test Specifications	FCC 15.247:2013	Test Method	ANSI C63.10:2009
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Run #	13	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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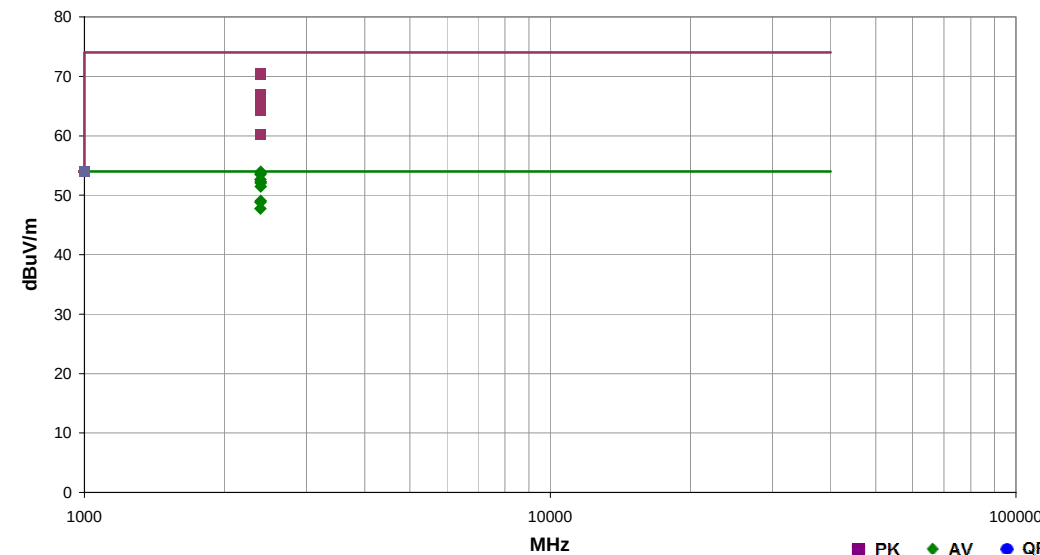


Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2484.623	34.5	-1.5	1.4	278.0	3.0	20.0	Horz	AV	0.0	53.0	54.0	-1.0	Ch 7/11, EUT Horz, Ant B, MCS15, 10Hz Avg, 11dBm
2483.500	29.7	-1.5	1.2	284.0	3.0	20.0	Horz	AV	0.0	48.2	54.0	-5.8	Ch 7/11., EUT Horz, Ant B, MCS8, 10Hz Avg, 11dBm
2484.430	47.6	-1.5	1.4	278.0	3.0	20.0	Horz	PK	0.0	66.1	74.0	-7.9	Ch 7/11, EUT Horz, Ant B, MCS15, 10Hz Avg, 11dBm
2485.143	27.0	-1.5	1.2	315.0	3.0	20.0	Horz	AV	0.0	45.5	54.0	-8.5	Ch 7/11, EUT Horz, Ant B, MCS7, 10Hz Avg, 11dBm
2484.700	45.0	-1.5	1.2	284.0	3.0	20.0	Horz	PK	0.0	63.5	74.0	-10.5	Ch 7/11, EUT Horz, Ant B, MCS8, 10Hz Avg, 11dBm
2484.260	40.2	-1.5	1.2	315.0	3.0	20.0	Horz	PK	0.0	58.7	74.0	-15.3	Ch 7/11, EUT Horz, Ant B, MCS7, 10Hz Avg, 11dBm

Work Order:	MCSO1665	Date:	07/17/13	
Project:	None	Temperature:	23 °C	
Job Site:	NC01	Humidity:	49% RH	
Serial Number:	6079632553	Barometric Pres.:	1017 mbar	
EUT:	1601	Tested by: Richard Mellroth		
Configuration:	2			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting at 100% Duty Cycle, 802.11 b/g/n			
Deviations:	None			
Comments:	2390 MHz restricted band edge measurement, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain			

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

Run #	18	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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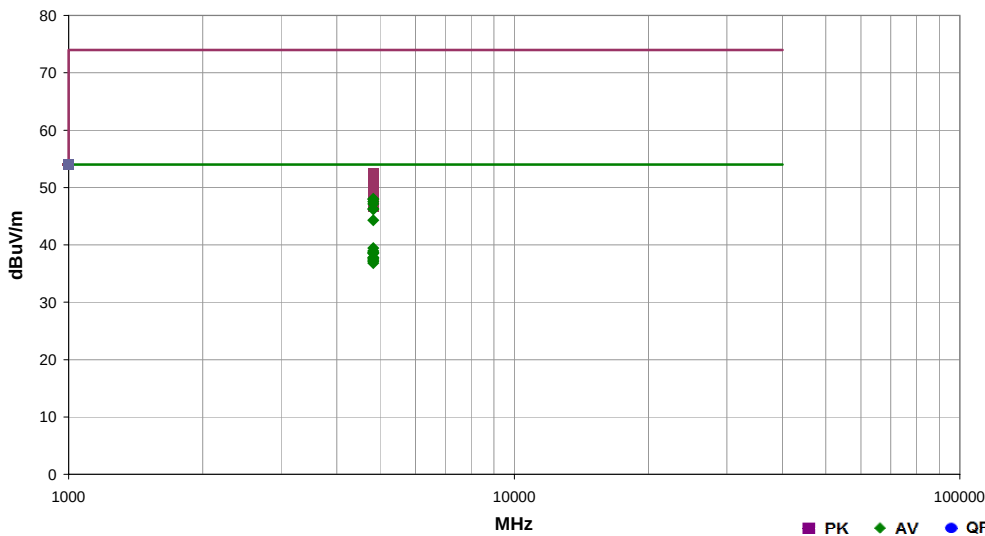


Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2389.953	35.7	-1.8	1.2	278.0	3.0	20.0	Horz	AV	0.0	53.9	54.0	-0.1	Ch 1, EUT Horz, Ant B, MCS0
2390.000	35.5	-1.8	1.2	287.0	3.0	20.0	Horz	AV	0.0	53.7	54.0	-0.3	Ch 1, EUT Horz, Ant B, MCS7
2388.053	35.3	-1.8	1.2	284.0	3.0	20.0	Horz	AV	0.0	53.5	54.0	-0.5	Ch 1/5, EUT Horz, Ant B, MCS15, 10Hz Avg, 11 dBm
2388.847	34.4	-1.8	1.2	283.0	3.0	20.0	Horz	AV	0.0	52.6	54.0	-1.4	Ch 1/5, EUT Horz, Ant B, MCS7, 10Hz Avg, 11 dBm
2390.000	34.0	-1.8	1.2	283.0	3.0	20.0	Horz	AV	0.0	52.2	54.0	-1.8	Ch 1, EUT Horz, Ant B, 54 Mbps
2389.990	33.8	-1.8	1.2	284.0	3.0	20.0	Horz	AV	0.0	52.0	54.0	-2.0	Ch 1, EUT Horz, Ant B, 6 Mbps
2389.973	33.2	-1.8	1.2	282.0	3.0	20.0	Horz	AV	0.0	51.4	54.0	-2.6	Ch 1, EUT Horz, Ant B, 36 Mbps
2388.143	52.3	-1.8	1.2	283.0	3.0	20.0	Horz	PK	0.0	70.5	74.0	-3.5	Ch 1/5, EUT Horz, Ant B, MCS7, 10Hz Avg, 11 dBm
2388.243	52.0	-1.8	1.2	284.0	3.0	20.0	Horz	PK	0.0	70.2	74.0	-3.8	Ch 1/5, EUT Horz, Ant B, MCS15, 10Hz Avg, 11 dBm
2389.690	30.8	-1.8	1.2	283.0	3.0	20.0	Horz	AV	0.0	49.0	54.0	-5.0	Ch 1/5, EUT Horz, Ant B, MCS0, 10Hz Avg, 11 dBm
2388.363	30.6	-1.8	1.2	286.0	3.0	20.0	Horz	AV	0.0	48.8	54.0	-5.2	Ch 1/5, EUT Horz, Ant B, MCS8, 10Hz Avg, 11 dBm
2388.047	29.5	-1.8	1.2	279.0	3.0	20.0	Horz	AV	0.0	47.7	54.0	-6.3	Ch 1, EUT Horz, Ant B, 1 Mbps
2389.890	48.7	-1.8	1.2	278.0	3.0	20.0	Horz	PK	0.0	66.9	74.0	-7.1	Ch 1, EUT Horz, Ant B, MCS0
2389.437	48.5	-1.8	1.2	287.0	3.0	20.0	Horz	PK	0.0	66.7	74.0	-7.3	Ch 1, EUT Horz, Ant B, MCS7
2389.813	48.4	-1.8	1.2	283.0	3.0	20.0	Horz	PK	0.0	66.6	74.0	-7.4	Ch 1/5, EUT Horz, Ant B, MCS0, 10Hz Avg, 11 dBm
2388.873	47.6	-1.8	1.2	284.0	3.0	20.0	Horz	PK	0.0	65.8	74.0	-8.2	Ch 1, EUT Horz, Ant B, 6 Mbps
2389.947	46.9	-1.8	1.2	283.0	3.0	20.0	Horz	PK	0.0	65.1	74.0	-8.9	Ch 1, EUT Horz, Ant B, 54 Mbps
2388.207	46.5	-1.8	1.2	286.0	3.0	20.0	Horz	PK	0.0	64.7	74.0	-9.3	Ch 1/5, EUT Horz, Ant B, MCS8, 10Hz Avg, 11 dBm
2389.920	45.9	-1.8	1.2	282.0	3.0	20.0	Horz	PK	0.0	64.1	74.0	-9.9	Ch 1, EUT Horz, Ant B, 36 Mbps
2389.463	41.9	-1.8	1.2	279.0	3.0	20.0	Horz	PK	0.0	60.1	74.0	-13.9	Ch 1, EUT Horz, Ant B, 1 Mbps

Work Order:	MCSO1665	Date:	07/17/13	
Project:	None	Temperature:	23 °C	
Job Site:	NC01	Humidity:	49% RH	
Serial Number:	6079632553	Barometric Pres.:	1017 mbar	
EUT:	1601	Tested by:	Richard Mellroth	
Configuration:	2			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting at 100% Duty Cycle, 802.11 b/g/n			
Deviations:	None			
Comments:	Harmonics and restricted band emission measurements, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain			

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

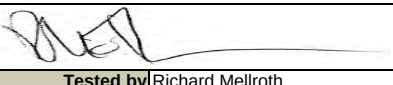
Run #	31	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4823.965	39.8	8.2	1.4	164.0	3.0	0.0	Horz	AV	0.0	48.0	54.0	-6.0	Ch 1, EUT Flat, Ant AB, 1 Mbps
4823.995	39.7	8.2	1.6	164.0	3.0	0.0	Horz	AV	0.0	47.9	54.0	-6.1	Ch 1, EUT Flat, Ant A, 1 Mbps
4823.985	39.3	8.2	1.4	336.0	3.0	0.0	Horz	AV	0.0	47.5	54.0	-6.5	Ch 1, EUT Horz, Ant A, 1 Mbps
4824.020	38.9	8.2	1.4	335.0	3.0	0.0	Horz	AV	0.0	47.1	54.0	-6.9	Ch 1, EUT Horz, Ant AB, 1 Mbps
4823.990	38.1	8.2	1.2	86.0	3.0	0.0	Vert	AV	0.0	46.3	54.0	-7.7	Ch 1, EUT Vert, Ant A, 1 Mbps
4824.000	38.0	8.2	1.2	215.0	3.0	0.0	Vert	AV	0.0	46.2	54.0	-7.8	Ch 1, EUT Flat, Ant B, 1 Mbps
4823.980	36.1	8.2	1.2	76.0	3.0	0.0	Vert	AV	0.0	44.3	54.0	-9.7	Ch 1, EUT Vert, Ant AB, 1 Mbps
4824.010	31.2	8.2	1.2	299.0	3.0	0.0	Vert	AV	0.0	39.4	54.0	-14.6	Ch 1, EUT Horz, Ant A, 1 Mbps
4824.090	30.7	8.2	1.2	359.0	3.0	0.0	Vert	AV	0.0	38.9	54.0	-15.1	Ch 1, EUT Flat, Ant AB, 1 Mbps
4824.000	30.5	8.2	1.2	14.0	3.0	0.0	Vert	AV	0.0	38.7	54.0	-15.3	Ch 1, EUT Horz, Ant AB, 1 Mbps
4823.990	30.4	8.2	1.2	360.0	3.0	0.0	Vert	AV	0.0	38.6	54.0	-15.4	Ch 1, EUT Flat, Ant AB, 1 Mbps
4824.080	30.3	8.2	1.7	345.0	3.0	0.0	Horz	AV	0.0	38.5	54.0	-15.5	Ch 1, EUT Horz, Ant B, 1 Mbps
4824.010	29.6	8.2	1.2	103.0	3.0	0.0	Vert	AV	0.0	37.8	54.0	-16.2	Ch 1, EUT Vert, Ant B, 1 Mbps
4823.965	29.5	8.2	1.4	118.0	3.0	0.0	Horz	AV	0.0	37.7	54.0	-16.3	Ch 1, EUT Vert, Ant A, 1 Mbps
4823.970	29.3	8.2	1.1	187.0	3.0	0.0	Horz	AV	0.0	37.5	54.0	-16.5	Ch 1, EUT Vert, Ant AB, 1 Mbps
4824.120	29.1	8.2	1.2	296.0	3.0	0.0	Vert	AV	0.0	37.3	54.0	-16.7	Ch 1, EUT Horz, Ant B, 1 Mbps
4823.960	28.9	8.2	1.2	78.0	3.0	0.0	Horz	AV	0.0	37.1	54.0	-16.9	Ch 1, EUT Vert, Ant B, 1 Mbps
4823.910	28.6	8.2	1.2	40.0	3.0	0.0	Horz	AV	0.0	36.8	54.0	-17.2	Ch 1, EUT Flat, Ant B, 1 Mbps
4823.940	44.3	8.2	1.6	164.0	3.0	0.0	Horz	PK	0.0	52.5	74.0	-21.5	Ch 1, EUT Flat, Ant A, 1 Mbps
4823.820	44.2	8.2	1.4	164.0	3.0	0.0	Horz	PK	0.0	52.4	74.0	-21.6	Ch 1, EUT Flat, Ant AB, 1 Mbps
4823.930	43.8	8.2	1.4	336.0	3.0	0.0	Horz	PK	0.0	52.0	74.0	-22.0	Ch 1, EUT Horz, Ant A, 1 Mbps
4824.255	43.7	8.2	1.4	335.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	Ch 1, EUT Horz, Ant AB, 1 Mbps
4824.105	43.2	8.2	1.2	86.0	3.0	0.0	Vert	PK	0.0	51.4	74.0	-22.6	Ch 1, EUT Vert, Ant A, 1 Mbps
4824.075	42.8	8.2	1.2	215.0	3.0	0.0	Vert	PK	0.0	51.0	74.0	-23.0	Ch 1, EUT Flat, Ant AB, 1 Mbps
4823.935	42.0	8.2	1.2	76.0	3.0	0.0	Vert	PK	0.0	50.2	74.0	-23.8	Ch 1, EUT Vert, Ant AB, 1 Mbps
4824.040	40.1	8.2	1.2	360.0	3.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	Ch 1, EUT Flat, Ant AB, 1 Mbps
4824.620	39.9	8.2	1.2	299.0	3.0	0.0	Vert	PK	0.0	48.1	74.0	-25.9	Ch 1, EUT Horz, Ant A, 1 Mbps
4824.000	39.6	8.2	1.1	187.0	3.0	0.0	Horz	PK	0.0	47.8	74.0	-26.2	Ch 1, EUT Vert, Ant AB, 1 Mbps
4824.165	39.5	8.2	1.7	345.0	3.0	0.0	Horz	PK	0.0	47.7	74.0	-26.3	Ch 1, EUT Horz, Ant B, 1 Mbps
4823.855	39.3	8.2	1.2	14.0	3.0	0.0	Vert	PK	0.0	47.5	74.0	-26.5	Ch 1, EUT Horz, Ant AB, 1 Mbps
4823.940	39.1	8.2	1.2	359.0	3.0	0.0	Vert	PK	0.0	47.3	74.0	-26.7	Ch 1, EUT Flat, Ant A, 1 Mbps
4823.800	39.1	8.2	1.2	78.0	3.0	0.0	Horz	PK	0.0	47.3	74.0	-26.7	Ch 1, EUT Vert, Ant B, 1 Mbps
4823.750	38.8	8.2	1.2	296.0	3.0	0.0	Vert	PK	0.0	47.0	74.0	-27.0	Ch 1, EUT Horz, Ant B, 1 Mbps
4823.710	38.7	8.2	1.2	103.0	3.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	Ch 1, EUT Vert, Ant B, 1 Mbps
4823.350	38.6	8.2	1.4	118.0	3.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	Ch 1, EUT Vert, Ant A, 1 Mbps
4825.130	38.5	8.2	1.2	40.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	Ch 1, EUT Flat, Ant B, 1 Mbps

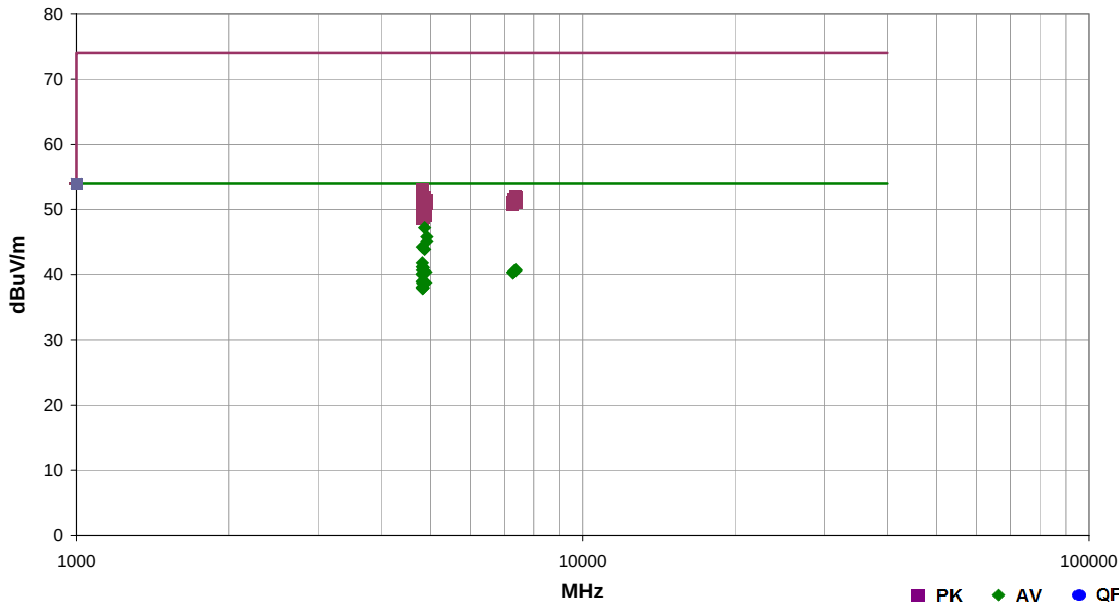
SPURIOUS RADIATED EMISSIONS - 2.4 GHz Band

PSA-ESCI 2012.12.14
EmiR5 2013.05.31

Work Order:	MCSO1665	Date:	07/17/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC01	Humidity:	45% RH	
Serial Number:	6079632553	Barometric Pres.:	1021 mbar	
EUT:	1601	Tested by:	Richard Mellroth	
Configuration:	2			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting at 100% Duty Cycle, 802.11 b/g/n			
Deviations:	None			
Comments:	Harmonics and restricted band emission measurements, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain			

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

Run #	34	Test Distance	3	Antenna Height	1-4m	Results	Pass
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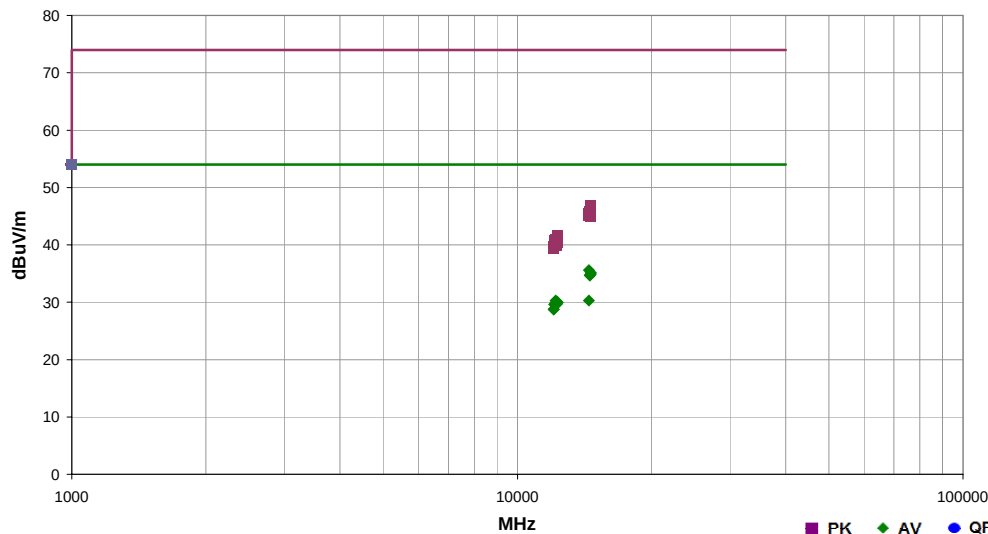


Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4874.020	38.9	8.3	1.6	163.0	3.0	0.0	Horz	AV	0.0	47.2	54.0	-6.8	Ch 6, EUT Flat, Ant A, 1 Mbps
4923.975	37.4	8.4	1.6	139.0	3.0	0.0	Horz	AV	0.0	45.8	54.0	-8.2	Ch 11, EUT Flat, Ant A, 1 Mbps
4924.017	36.7	8.4	1.2	141.0	3.0	0.0	Vert	AV	0.0	45.1	54.0	-8.9	Ch 11, EUT Vert, Ant A, 1 Mbps
4823.990	36.0	8.2	1.6	165.0	3.0	0.0	Horz	AV	0.0	44.2	54.0	-9.8	Ch 1, EUT Flat, Ant A, 11 Mbps
4873.992	35.6	8.3	1.2	123.0	3.0	0.0	Vert	AV	0.0	43.9	54.0	-10.1	Ch 6, EUT Vert, Ant A, 1 Mbps
4824.058	33.6	8.2	1.2	158.0	3.0	0.0	Vert	AV	0.0	41.8	54.0	-12.2	Ch 1, EUT Flat, Ant A, 11 Mbps
4822.525	33.0	8.2	1.6	165.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	Ch 1, EUT Flat, Ant A, 36 Mbps
4841.900	32.9	8.2	1.7	165.0	3.0	0.0	Horz	AV	0.0	41.1	54.0	-12.9	Ch 1/5, EUT Flat, Ant A, MCS7
7388.483	28.0	12.8	1.7	73.0	3.0	0.0	Horz	AV	0.0	40.8	54.0	-13.2	Ch 11, EUT Flat, Ant A, 1 Mbps
4824.530	32.5	8.2	1.6	161.0	3.0	0.0	Horz	AV	0.0	40.7	54.0	-13.3	Ch 1, EUT Flat, Ant A, 54 Mbps
7355.417	28.1	12.6	1.2	359.0	3.0	0.0	Vert	AV	0.0	40.7	54.0	-13.3	Ch 7/11, EUT Vert, Ant A, MCS7
7354.275	28.1	12.6	2.5	236.0	3.0	0.0	Horz	AV	0.0	40.7	54.0	-13.3	Ch 7/11, EUT Flat, Ant A, MCS7
7388.317	27.8	12.8	1.2	277.0	3.0	0.0	Vert	AV	0.0	40.6	54.0	-13.4	Ch 11, EUT Vert, Ant A, 1 Mbps
4871.808	32.3	8.3	1.6	162.0	3.0	0.0	Horz	AV	0.0	40.6	54.0	-13.4	Ch 4/8, EUT Flat, Ant A, MCS7
7310.517	28.2	12.4	1.2	121.0	3.0	0.0	Vert	AV	0.0	40.6	54.0	-13.4	Ch 6, EUT Vert, Ant A, 1 Mbps
7308.792	28.2	12.4	1.2	11.0	3.0	0.0	Horz	AV	0.0	40.6	54.0	-13.4	Ch 6, EUT Flat, Ant A, 1 Mbps
7308.592	28.2	12.3	1.2	256.0	3.0	0.0	Horz	AV	0.0	40.5	54.0	-13.5	Ch 4/8, EUT Flat, Ant A, MCS7
7308.500	28.2	12.3	1.2	219.0	3.0	0.0	Vert	AV	0.0	40.5	54.0	-13.5	Ch 4/8, EUT Vert, Ant A, MCS7
4901.733	32.0	8.3	1.4	139.0	3.0	0.0	Horz	AV	0.0	40.3	54.0	-13.7	Ch 7/11, EUT Flat, Ant A, MCS7
7268.242	28.2	12.1	1.2	59.0	3.0	0.0	Horz	AV	0.0	40.3	54.0	-13.7	Ch 1/5, EUT Flat, Ant A, MCS7
7268.000	28.2	12.1	1.2	105.0	3.0	0.0	Vert	AV	0.0	40.3	54.0	-13.7	Ch 1/5, EUT Vert, Ant A, MCS7
4823.780	31.9	8.2	1.6	141.0	3.0	0.0	Horz	AV	0.0	40.1	54.0	-13.9	Ch 1, EUT Flat, Ant A, MCS7
4823.775	31.8	8.2	1.3	162.0	3.0	0.0	Horz	AV	0.0	40.0	54.0	-14.0	Ch 1, EUT Vert, Ant A, MCS0
4826.358	30.8	8.2	1.2	160.0	3.0	0.0	Vert	AV	0.0	39.0	54.0	-15.0	Ch 1, EUT Vert, Ant A, 6 Mbps
4826.408	30.7	8.2	1.2	159.0	3.0	0.0	Vert	AV	0.0	38.9	54.0	-15.1	Ch 1, EUT Vert, Ant A, MCS0
4875.480	30.6	8.3	1.2	156.0	3.0	0.0	Vert	AV	0.0	38.9	54.0	-15.1	Ch 4/8, EUT Vert, Ant A, MCS7
4901.742	30.4	8.3	1.2	132.0	3.0	0.0	Vert	AV	0.0	38.7	54.0	-15.3	Ch 7/11, EUT Vert, Ant A, MCS7

Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4826.483	30.4	8.2	1.2	155.0	3.0	0.0	Vert	AV	0.0	38.6	54.0	-15.4	Ch 1, EUT Vert, Ant A, 54 Mbps
4822.942	29.8	8.2	1.2	151.0	3.0	0.0	Vert	AV	0.0	38.0	54.0	-16.0	Ch 1, EUT Vert, Ant A, 36 Mbps
4845.460	29.7	8.3	1.2	147.0	3.0	0.0	Vert	AV	0.0	38.0	54.0	-16.0	Ch 1/5, EUT Vert, Ant A, MCS7
4825.500	29.7	8.2	1.2	160.0	3.0	0.0	Vert	AV	0.0	37.9	54.0	-16.1	Ch 1, EUT Vert, Ant A, MCS7
4826.475	29.6	8.2	1.2	64.0	3.0	0.0	Horz	AV	0.0	37.8	54.0	-16.2	Ch 1, EUT Flat, Ant A, 6 Mbps
4823.995	44.9	8.2	1.6	165.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	Ch 1, EUT Flat, Ant A, 11 Mbps
7356.542	39.3	12.6	2.5	236.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	Ch 7/11, EUT Flat, Ant A, MCS7
4874.100	43.6	8.3	1.6	163.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	Ch 6, EUT Flat, Ant A, 1 Mbps
7385.483	39.1	12.8	1.7	73.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	Ch 11, EUT Flat, Ant A, 1 Mbps
7354.317	39.0	12.6	1.2	359.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	Ch 7/11, EUT Vert, Ant A, MCS7
7308.775	39.2	12.4	1.2	121.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	Ch 6, EUT Vert, Ant A, 1 Mbps
7308.650	39.2	12.4	1.2	256.0	3.0	0.0	Horz	PK	0.0	51.6	74.0	-22.4	Ch 4/8, EUT Flat, Ant A, MCS7
4823.760	43.3	8.2	1.3	162.0	3.0	0.0	Horz	PK	0.0	51.5	74.0	-22.5	Ch 1, EUT Flat, Ant A, MCS0
4823.715	43.3	8.2	1.6	165.0	3.0	0.0	Horz	PK	0.0	51.5	74.0	-22.5	Ch 1, EUT Flat, Ant A, 36 Mbps
4823.500	43.3	8.2	1.6	141.0	3.0	0.0	Horz	PK	0.0	51.5	74.0	-22.5	Ch 1, EUT Flat, Ant A, MCS7
4923.875	42.9	8.4	1.6	139.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	Ch 11, EUT Flat, Ant A, 1 Mbps
7313.050	38.9	12.4	1.2	11.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	Ch 6, EUT Flat, Ant A, 1 Mbps
7310.450	38.8	12.4	1.2	219.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	Ch 4/8, EUT Vert, Ant A, MCS7
7267.883	39.0	12.1	1.2	105.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Ch 1/5, EUT Vert, Ant A, MCS7
7383.608	38.3	12.8	1.2	277.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Ch 11, EUT Vert, Ant A, 1 Mbps
4841.867	42.8	8.2	1.7	165.0	3.0	0.0	Horz	PK	0.0	51.0	74.0	-23.0	Ch 1/5, EUT Flat, Ant A, MCS7
4823.883	42.8	8.2	1.2	158.0	3.0	0.0	Vert	PK	0.0	51.0	74.0	-23.0	Ch 1, EUT Vert, Ant A, 11 Mbps
4822.665	42.8	8.2	1.6	161.0	3.0	0.0	Horz	PK	0.0	51.0	74.0	-23.0	Ch 1, EUT Flat, Ant A, 54 Mbps
4924.150	42.5	8.4	1.2	141.0	3.0	0.0	Vert	PK	0.0	50.9	74.0	-23.1	Ch 11, EUT Vert, Ant A, 1 Mbps
4871.808	42.6	8.3	1.6	162.0	3.0	0.0	Horz	PK	0.0	50.9	74.0	-23.1	Ch 4/8, EUT Flat, Ant A, MCS7
4902.092	42.5	8.3	1.4	139.0	3.0	0.0	Horz	PK	0.0	50.8	74.0	-23.2	Ch 7/11, EUT Flat, Ant A, MCS7
7265.500	38.7	12.1	1.2	59.0	3.0	0.0	Horz	PK	0.0	50.8	74.0	-23.2	Ch 1/5, EUT Flat, Ant A, MCS7
4874.117	41.4	8.3	1.2	123.0	3.0	0.0	Vert	PK	0.0	49.7	74.0	-24.3	Ch 6, EUT Vert, Ant A, 1 Mbps
4825.642	41.4	8.2	1.2	160.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	Ch 1, EUT Vert, Ant A, 6 Mbps
4872.545	41.1	8.3	1.2	156.0	3.0	0.0	Vert	PK	0.0	49.4	74.0	-24.6	Ch 4/8, EUT Vert, Ant A, MCS7
4826.333	41.1	8.2	1.2	159.0	3.0	0.0	Vert	PK	0.0	49.3	74.0	-24.7	Ch 1, EUT Vert, Ant A, MCS0
4824.858	41.1	8.2	1.2	155.0	3.0	0.0	Vert	PK	0.0	49.3	74.0	-24.7	Ch 1, EUT Vert, Ant A, 54 Mbps
4825.617	41.0	8.2	1.2	151.0	3.0	0.0	Vert	PK	0.0	49.2	74.0	-24.8	Ch 1, EUT Vert, Ant A, 36 Mbps
4901.633	40.8	8.3	1.2	132.0	3.0	0.0	Vert	PK	0.0	49.1	74.0	-24.9	Ch 7/11, EUT Vert, Ant A, MCS7
4824.408	40.7	8.2	1.2	64.0	3.0	0.0	Horz	PK	0.0	48.9	74.0	-25.1	Ch 1, EUT Flat, Ant A, 6 Mbps
4845.465	40.5	8.3	1.2	147.0	3.0	0.0	Vert	PK	0.0	48.8	74.0	-25.2	Ch 1/5, EUT Vert, Ant A, MCS7
4823.525	40.4	8.2	1.2	160.0	3.0	0.0	Vert	PK	0.0	48.6	74.0	-25.4	Ch 1, EUT Vert, Ant A, MCS7

Work Order:	MCSO1665	Date:	07/17/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC01	Humidity:	45% RH	
Serial Number:	6079632553	Barometric Pres.:	1021 mbar	
EUT:	1601			
Configuration:	2			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting at 100% Duty Cycle, 802.11 b/g/n			
Deviations:	None			
Comments:	Harmonics and restricted band emission measurements, 20 MHz and 40 MHz bandwidth channels. See comments below for EUT orientation, transmit channel, data rate, and antenna chain			
Test Specifications	FCC 15.247:2013		Test Method	ANSI C63.10:2009

Run #	36	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
14471.930	31.3	4.3	1.2	113.0	3.0	0.0	Vert	AV	0.0	35.6	54.0	-18.4	Ch 1, EUT Vert, Ant A, 1 Mbps
14622.270	30.8	4.3	1.2	40.0	3.0	0.0	Vert	AV	0.0	35.1	54.0	-18.9	Ch 4/8, EUT Vert, Ant A, MCS7
14623.800	30.6	4.3	1.2	302.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	Ch 4/8, EUT Flat, Ant A, MCS7
14531.890	30.5	4.2	1.2	212.0	3.0	0.0	Vert	AV	0.0	34.7	54.0	-19.3	Ch 1/5, EUT Vert, Ant A, MCS7
14531.550	30.4	4.2	3.9	201.0	3.0	0.0	Horz	AV	0.0	34.6	54.0	-19.4	Ch 1/5, EUT Flat, Ant A, MCS7
14472.340	26.0	4.3	1.2	206.0	3.0	0.0	Horz	AV	0.0	30.3	54.0	-23.7	Ch 1, EUT Flat, Ant A, 1 Mbps
12187.380	33.4	-3.1	1.2	122.0	3.0	0.0	Vert	AV	0.0	30.3	54.0	-23.7	Ch 4/8, EUT Vert, Ant A, MCS7
12260.590	33.2	-3.1	1.2	103.0	3.0	0.0	Vert	AV	0.0	30.1	54.0	-23.9	Ch 7/11, EUT Vert, Ant A, MCS7
12311.390	33.0	-3.0	1.2	15.0	3.0	0.0	Vert	AV	0.0	30.0	54.0	-24.0	Ch 11, EUT Vert, Ant A, 1 Mbps
12311.070	33.0	-3.0	3.7	70.0	3.0	0.0	Horz	AV	0.0	30.0	54.0	-24.0	Ch 11, EUT Flat, Ant A, 1 Mbps
12186.980	33.1	-3.1	1.2	124.0	3.0	0.0	Vert	AV	0.0	30.0	54.0	-24.0	Ch 6, EUT Vert, Ant A, 1 Mbps
12186.430	32.9	-3.1	1.2	239.0	3.0	0.0	Horz	AV	0.0	29.8	54.0	-24.2	Ch 4/8, EUT Flat, Ant A, MCS7
12185.710	32.9	-3.1	1.2	214.0	3.0	0.0	Horz	AV	0.0	29.8	54.0	-24.2	Ch 6, EUT Flat, Ant A, MCS7
12258.480	32.8	-3.1	1.2	112.0	3.0	0.0	Horz	AV	0.0	29.7	54.0	-24.3	Ch 7/11, EUT Flat, Ant A, MCS7
12111.950	32.8	-3.2	1.2	147.0	3.0	0.0	Horz	AV	0.0	29.6	54.0	-24.4	Ch 1/5, EUT Flat, Ant A, MCS7
12111.520	32.8	-3.2	1.2	282.0	3.0	0.0	Vert	AV	0.0	29.6	54.0	-24.4	Ch 1/5, EUT Vert, Ant A, MCS7
12058.060	32.0	-3.2	1.2	290.0	3.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	Ch 1, EUT Vert, Ant A, 1 Mbps
12058.120	31.9	-3.2	3.1	169.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	Ch 1, EUT Flat, Ant A, 1 Mbps
14620.080	42.5	4.3	1.2	40.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	Ch 4/8, EUT Vert, Ant A, MCS7
14531.590	41.5	4.2	1.2	212.0	3.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	Ch 1/5, EUT Vert, Ant A, MCS7
14472.020	41.2	4.3	1.2	113.0	3.0	0.0	Vert	PK	0.0	45.5	74.0	-28.5	Ch 1, EUT Vert, Ant A, 1 Mbps
14534.400	41.1	4.2	3.9	201.0	3.0	0.0	Horz	PK	0.0	45.3	74.0	-28.7	Ch 1/5, EUT Flat, Ant A, MCS7
14472.190	40.9	4.3	1.2	206.0	3.0	0.0	Horz	PK	0.0	45.2	74.0	-28.8	Ch 1, EUT Flat, Ant A, 1 Mbps
14622.500	40.7	4.3	1.2	302.0	3.0	0.0	Horz	PK	0.0	45.0	74.0	-29.0	Ch 4/8, EUT Flat, Ant A, MCS7
12309.690	44.7	-3.0	1.2	15.0	3.0	0.0	Vert	PK	0.0	41.7	74.0	-32.3	Ch 11, EUT Vert, Ant A, 1 Mbps
12185.950	44.1	-3.1	1.2	124.0	3.0	0.0	Vert	PK	0.0	41.0	74.0	-33.0	Ch 6, EUT Vert, Ant A, 1 Mbps
12182.910	43.9	-3.1	1.2	214.0	3.0	0.0	Horz	PK	0.0	40.8	74.0	-33.2	Ch 4/8, EUT Flat, Ant A, 1 Mbps
12182.610	43.9	-3.1	1.2	122.0	3.0	0.0	Vert	PK	0.0	40.8	74.0	-33.2	Ch 11, EUT Vert, Ant A, 1 Mbps
12112.030	43.9	-3.2	1.2	147.0	3.0	0.0	Horz	PK	0.0	40.7	74.0	-33.3	Ch 1/5, EUT Flat, Ant A, MCS7
12107.730	43.9	-3.2	1.2	282.0	3.0	0.0	Vert	PK	0.0	40.7	74.0	-33.3	Ch 1/5, EUT Vert, Ant A, MCS7
12259.240	43.8	-3.1	1.2	103.0	3.0	0.0	Vert	PK	0.0	40.7	74.0	-33.3	Ch 7/11, EUT Vert, Ant A, MCS7
12308.690	43.5	-3.0	3.7	70.0	3.0	0.0	Horz	PK	0.0	40.5	74.0	-33.5	Ch 11, EUT Flat, Ant A, 1 Mbps
12185.530	43.4	-3.1	1.2	239.0	3.0	0.0	Horz	PK	0.0	40.3	74.0	-33.7	Ch 4/8, EUT Flat, Ant A, MCS7
12258.630	43.0	-3.1	1.2	112.0	3.0	0.0	Horz	PK	0.0	39.9	74.0	-34.1	Ch 7/11, EUT Flat, Ant A, MCS7
12062.080	42.9	-3.2	3.1	169.0	3.0	0.0	Horz	PK	0.0	39.7	74.0	-34.3	Ch 1, EUT Flat, Ant A, 1 Mbps
12058.150	42.6	-3.2	1.2	290.0	3.0	0.0	Vert	PK	0.0	39.4	74.0	-34.6	Ch 1, EUT Vert, Ant A, 1 Mbps

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

MODES OF OPERATION, 5 GHz Band

802.11(a), 6 Mbps
802.11(a), 36 Mbps
802.11(a), 54 Mbps
802.11(n), MCS0
802.11(n), MCS7
802.11(n), MCS8
802.11(n), MCS15

CHANNELS TESTED, 5 GHz BAND, 20 MHz CHANNEL BANDWIDTH

Channel 149, 5745 MHz
Channel 157, 5785 MHz
Channel 165, 5825 MHz

CHANNELS TESTED, 5 GHz BAND, 40 MHz CHANNEL BANDWIDTH

Channel 149/153, 5755 MHz
Channel 157/161, 5795 MHz

CONFIGURATIONS INVESTIGATED

MCSO1665 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	40000 MHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Fairview Microwave	SA18E-20	AQV	1/18/2013	12 mo
HP Filter	Micro-Tronics	HPM50111	HHI	1/18/2013	24 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVZ	12/13/2012	12 mo
Antenna, Horn	EMCO	3115	AHM	6/19/2012	24 mo
NC02 Cable	ESM Cable Corp.	TTBJ-141-KMKM-72	NC5	7/3/2013	12 mo
BP Filter	Micro-Tronics	BRC50705	HHM	6/20/2013	36 mo
BP Filter	Micro-Tronics	BRC50704	HHL	6/20/2013	36 mo
BP Filter	Micro-Tronics	BRC50703	HHK	6/20/2013	36 mo
Spectrum Analyzer	Agilent	E4440A	AAW	2/21/2013	24 mo

MEASUREMENT BANDWIDTHS

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

TEST DESCRIPTION

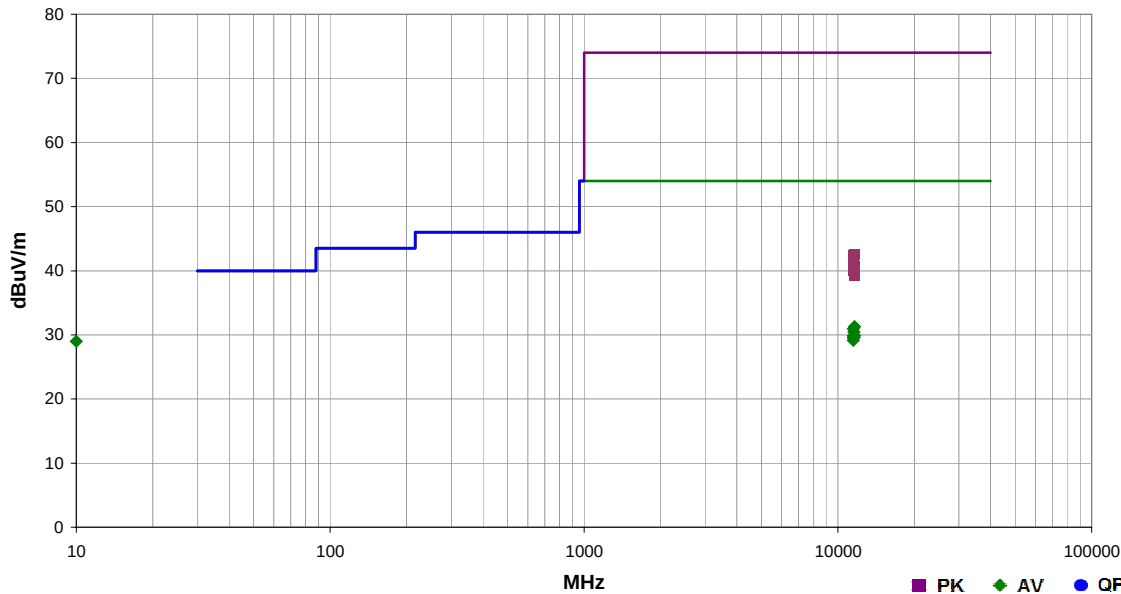
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify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

The power level used while under test for the 5 GHz band, 20 MHz and 40 MHz bandwidths was set at 12 dBm unless otherwise noted. All average measurements above 1 GHz were performed using a RMS Average employing a 10 Hz VBW was used as per FCC KDB 913591. The EUT was transmitting at a 100% duty cycle for the duration of the test.

Work Order:	MCSO1665	Date:	07/22/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC01	Humidity:	51% RH	
Serial Number:	6079632553	Barometric Pres.:	1021 mbar	
Tested by: Richard Mellroth				
EUT:	1601			
Configuration:	2			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting at 100% duty cycle, 802.11a/n			
Deviations:	None			
Comments:	See comments below for EUT orientation, data rate, and antenna chain			

Test Specifications	Test Method
FCC 15.407:2013	ANSI C63.10:2009

Run #	87-90	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Preamp (dB)	Antenna Height (meters)	Transducer (dB)	Cable (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)	Comments
11649.910	34.2	-2.9	1.2	171.0	3.0	0.0	Vert	AV	0.0	31.3	54.0	-22.7	Ch 165, EUT Flat, Ant A, 6 Mbps
11489.930	34.3	-3.3	1.2	179.0	3.0	0.0	Vert	AV	0.0	31.0	54.0	-23.0	Ch 149, EUT Flat, Ant A, 6 Mbps
11570.160	33.6	-3.2	1.2	182.0	3.0	0.0	Vert	AV	0.0	30.4	54.0	-23.6	Ch 157, EUT Flat, Ant A, 6 Mbps
11649.950	32.8	-2.9	1.2	245.0	3.0	0.0	Horz	AV	0.0	29.9	54.0	-24.1	Ch 165, EUT Flat, Ant A, 6 Mbps
11508.360	33.2	-3.3	1.2	179.0	3.0	0.0	Vert	AV	0.0	29.9	54.0	-24.1	Ch 149/153, EUT Flat, Ant A, MCS0
11588.220	32.7	-3.1	1.2	181.0	3.0	0.0	Vert	AV	0.0	29.6	54.0	-24.4	Ch 157/161, EUT Flat, Ant A, MCS0
11489.100	32.9	-3.3	1.2	188.0	3.0	0.0	Horz	AV	0.0	29.6	54.0	-24.4	Ch 149, EUT Flat, Ant A, 6 Mbps
11508.300	32.5	-3.3	1.2	181.0	3.0	0.0	Horz	AV	0.0	29.2	54.0	-24.8	Ch 149/153, EUT Flat, Ant A, MCS0
11571.090	32.3	-3.2	1.2	281.0	3.0	0.0	Horz	AV	0.0	29.1	54.0	-24.9	Ch 157, EUT Flat, Ant A, 6 Mbps
11587.800	32.1	-3.1	1.2	56.0	3.0	0.0	Horz	AV	0.0	29.0	54.0	-25.0	Ch 157/161, EUT Flat, Ant A, MCS0
11650.110	45.4	-2.9	1.2	171.0	3.0	0.0	Vert	PK	0.0	42.5	74.0	-31.5	Ch 165, EUT Flat, Ant A, 6 Mbps
11490.190	45.7	-3.3	1.2	179.0	3.0	0.0	Vert	PK	0.0	42.4	74.0	-31.6	Ch 149, EUT Flat, Ant A, 6 Mbps
11489.240	45.6	-3.3	1.2	188.0	3.0	0.0	Horz	PK	0.0	42.3	74.0	-31.7	Ch 149, EUT Flat, Ant A, 6 Mbps
11650.260	43.6	-2.9	1.2	245.0	3.0	0.0	Horz	PK	0.0	40.7	74.0	-33.3	Ch 165, EUT Flat, Ant A, 6 Mbps
11569.600	43.8	-3.2	1.2	182.0	3.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	Ch 157, EUT Flat, Ant A, 6 Mbps
11588.440	43.7	-3.1	1.2	181.0	3.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	Ch 157/161, EUT Flat, Ant A, MCS0
11508.580	43.7	-3.3	1.2	179.0	3.0	0.0	Vert	PK	0.0	40.4	74.0	-33.6	Ch 149/153, EUT Flat, Ant A, MCS0
11570.630	43.2	-3.2	1.2	281.0	3.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	Ch 157, EUT Flat, Ant A, 6 Mbps
11511.380	43.3	-3.3	1.2	181.0	3.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	Ch 149/153, EUT Flat, Ant A, MCS0
11588.980	42.4	-3.1	1.2	56.0	3.0	0.0	Horz	PK	0.0	39.3	74.0	-34.7	Ch 157/161, EUT Flat, Ant A, MCS0

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

MODES OF OPERATION

Transmitting 802.11(a), 100% Duty Cycle, Ch 149, 5745 Mhz
 Transmitting 802.11(a), 100% Duty Cycle, Ch 157, 5785 MHz
 Transmitting 802.11(a), 100% Duty Cycle, Ch 165, 5825 MHz
 Transmitting 802.11(b), 100% Duty Cycle, Ch 1, 2412 MHz
 Transmitting 802.11(b), 100% Duty Cycle, Ch 6, 2437 MHz
 Transmitting 802.11(b), 100% Duty Cycle, Ch 11, 2462 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

MCSO1665 - 4

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	TTE	H97-100K-50-720B	HHF	2/1/2012	24 mo
LISN	Solar	9252-50-R-24-BNC	LIM	1/16/2013	12 mo
NC01 Cables	N/A	Conducted / NF Probe Cable	NC4	12/14/2012	12 mo
Receiver	Rohde & Schwarz	ESCI	ARE	5/30/2013	12 mo

MEASUREMENT BANDWIDTHS

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

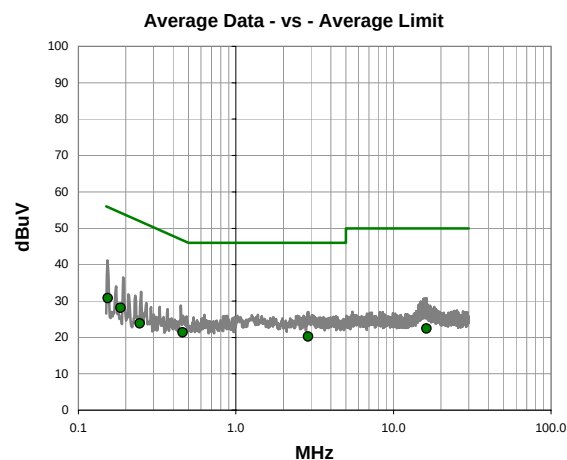
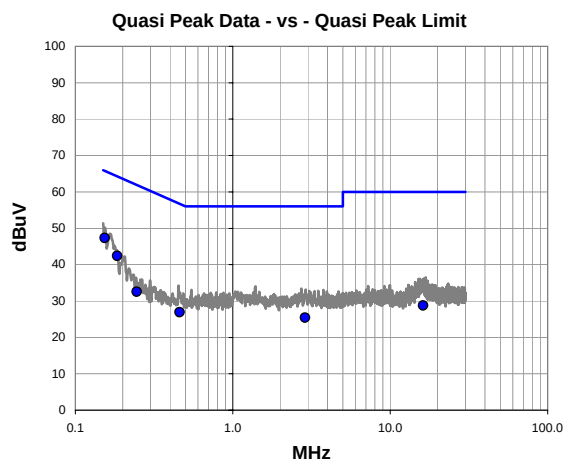
Measurements were made using the bandwidths and detectors specified. No video filter was used.

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm. The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at 6 Mbps at with a channel output power of 12 dBm for all 5.8 GHz channels, and 1 Mbps at a channel output power or 15 dBm for all 2.4 GHz channels. The test setup and procedures were in accordance with ANSI C63.10-2009.

AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13				
Project:	None	Temperature:	24 °C				
Job Site:	NC05	Humidity:	44% RH				
Serial Number:	6079632553	Barometric Pres.:	1019 mbar				
EUT:	1601						
Configuration:	4						
Customer:	Microsoft Corporation						
Attendees:	None						
EUT Power:	110VAC/60Hz						
Operating Mode:	Transmitting 802.11(a), Ch 149, 6 Mbps						
Deviations:	None						
Comments:	EUT is operating at 100% duty cycle						
Test Specifications		Test Method					
FCC 15.207:2013		ANSI C63.10:2009					
Run #	162	Line:	High Line	Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.154	27.0	20.3	47.3	65.8	-18.5
0.185	22.0	20.4	42.4	64.3	-21.9
0.246	12.3	20.2	32.5	61.9	-29.4
0.460	6.7	20.3	27.0	56.7	-29.7
2.876	5.0	20.4	25.4	56.0	-30.6
16.206	7.6	21.1	28.7	60.0	-31.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.154	10.5	20.3	30.8	55.8	-25.0
0.460	1.1	20.3	21.4	46.7	-25.3
2.876	-0.2	20.4	20.2	46.0	-25.8
0.185	7.8	20.4	28.2	54.3	-26.1
16.206	1.3	21.1	22.4	50.0	-27.6
0.246	3.6	20.2	23.8	51.9	-28.1

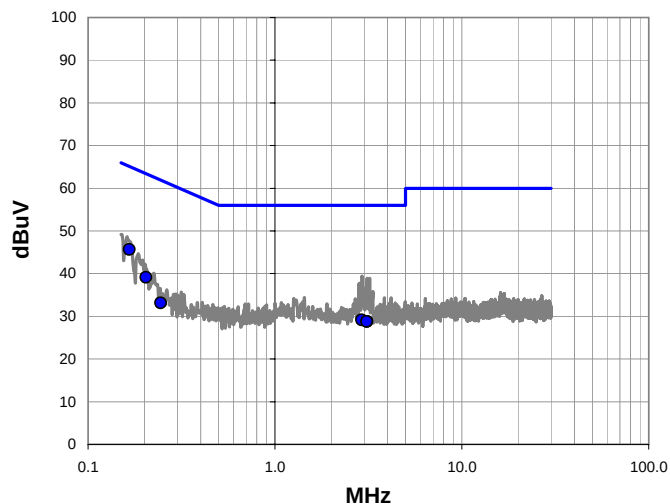
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
		Tested by:		Richard Mellroth
EUT:	1601			
Configuration:	4			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), Ch 149, 6 Mbps			
Deviations:	None			
Comments:	EUT is operating at 100% duty cycle			

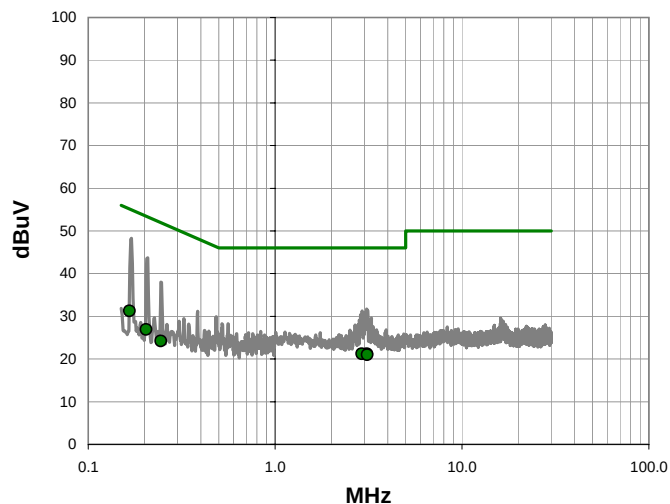
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	163	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.166	25.3	20.3	45.6	65.2	-19.5
0.204	18.8	20.3	39.1	63.4	-24.3
2.916	8.8	20.4	29.2	56.0	-26.8
3.116	8.4	20.4	28.8	56.0	-27.2
3.096	8.4	20.4	28.8	56.0	-27.2
0.245	12.9	20.2	33.1	61.9	-28.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.166	10.9	20.3	31.2	55.2	-23.9
3.096	0.8	20.4	21.2	46.0	-24.8
2.916	0.8	20.4	21.2	46.0	-24.8
3.116	0.6	20.4	21.0	46.0	-25.0
0.204	6.6	20.3	26.9	53.4	-26.5
0.245	4.0	20.2	24.2	51.9	-27.7

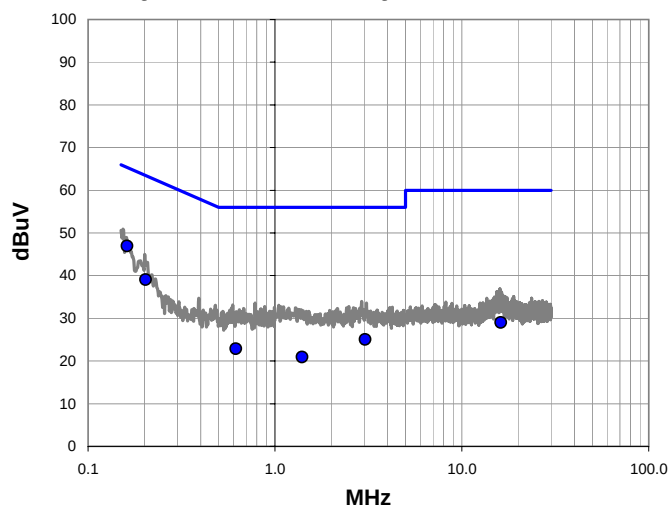
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
		Tested by: Richard Mellroth		
EUT:	1601			
Configuration:	4			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), Ch 157, 6 Mbps			
Deviations:	None			
Comments:	EUT is operating at 100% duty cycle			

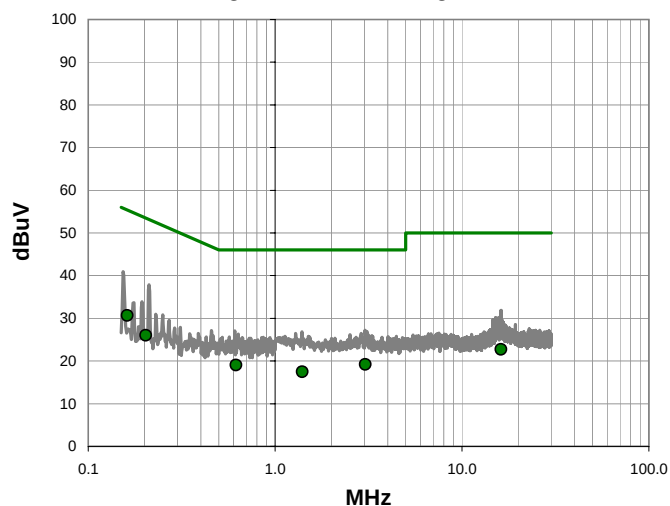
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	164	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.162	26.6	20.3	46.9	65.4	-18.4
0.203	18.7	20.3	39.0	63.5	-24.4
16.156	7.9	21.1	29.0	60.0	-31.0
3.044	4.6	20.4	25.0	56.0	-31.0
0.619	2.6	20.2	22.8	56.0	-33.2
1.400	0.6	20.3	20.9	56.0	-35.1

Average Data - vs - Average Limit

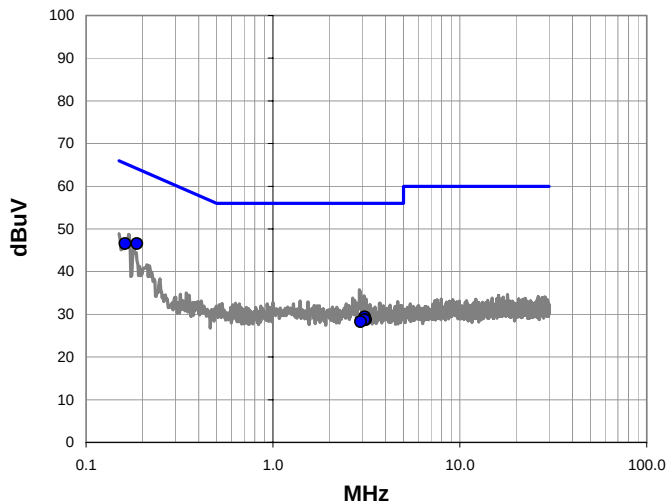
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.162	10.3	20.3	30.6	55.4	-24.7
3.044	-1.2	20.4	19.2	46.0	-26.8
0.619	-1.2	20.2	19.0	46.0	-27.0
16.156	1.6	21.1	22.7	50.0	-27.3
0.203	5.7	20.3	26.0	53.5	-27.4
1.400	-2.8	20.3	17.5	46.0	-28.5

AC Powerline Conducted Emissions

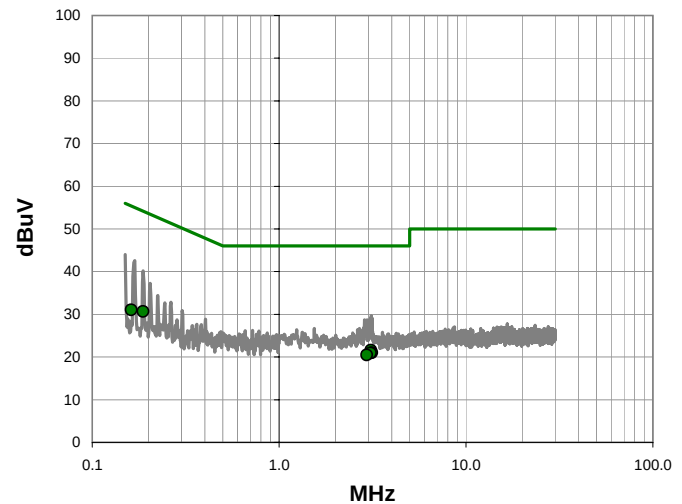
Work Order:	MCSO1665	Date:	07/25/13		
Project:	None	Temperature:	24 °C		
Job Site:	NC05	Humidity:	44% RH		
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	Tested by:	Richard Mellroth
EUT:	1601				
Configuration:	4				
Customer:	Microsoft Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a), Ch 157, 6 Mbps				
Deviations:	None				
Comments:	EUT is operating at 100% duty cycle				

Test Specifications		Test Method	
FCC 15.207:2013		ANSI C63.10:2009	
Run #	165	Line:	Neutral
Ext. Attenuation:	20	Results	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.187	26.2	20.4	46.6	64.2	-17.6
0.162	26.2	20.3	46.5	65.4	-18.8
3.104	9.0	20.4	29.4	56.0	-26.6
3.132	8.3	20.4	28.7	56.0	-27.3
3.084	8.3	20.4	28.7	56.0	-27.3
2.940	7.9	20.4	28.3	56.0	-27.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.187	10.3	20.4	30.7	54.2	-23.5
0.162	10.7	20.3	31.0	55.4	-24.3
3.104	1.2	20.4	21.6	46.0	-24.4
3.132	0.6	20.4	21.0	46.0	-25.0
3.084	0.5	20.4	20.9	46.0	-25.1
2.940	0.1	20.4	20.5	46.0	-25.5

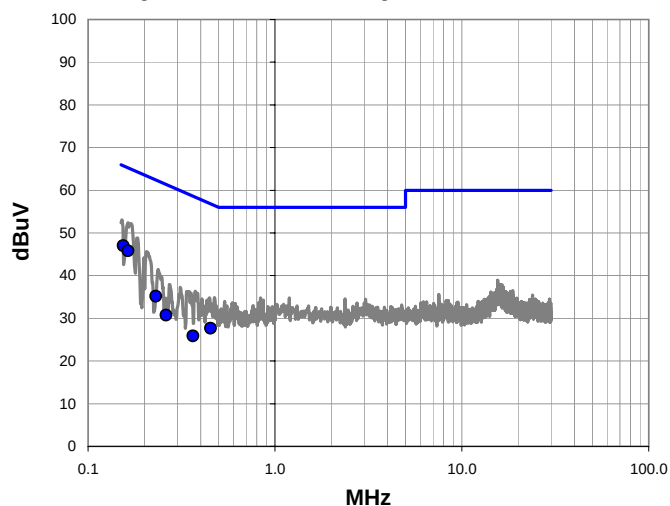
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
		Tested by:		Richard Mellroth
EUT:	1601			
Configuration:	4			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), Ch 165, 6 Mbps			
Deviations:	None			
Comments:	EUT is operating at 100% duty cycle			

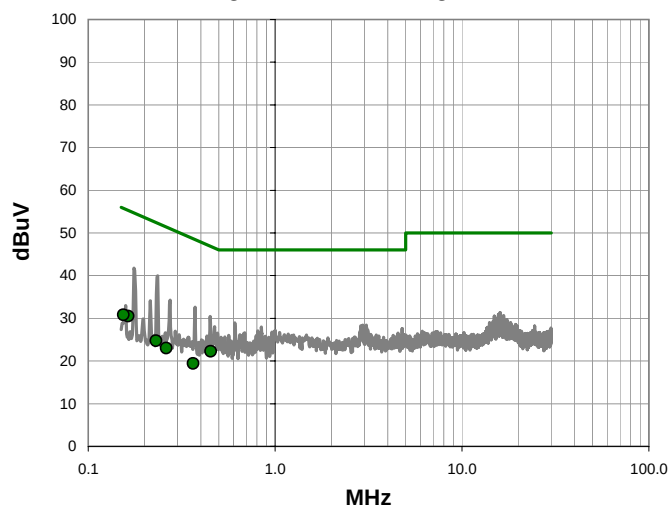
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	166	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.154	26.7	20.3	47.0	65.8	-18.8
0.164	25.5	20.3	45.8	65.3	-19.4
0.231	14.9	20.3	35.2	62.4	-27.2
0.453	7.4	20.3	27.7	56.8	-29.2
0.262	10.5	20.2	30.7	61.4	-30.7
0.365	5.6	20.3	25.9	58.6	-32.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.453	2.0	20.3	22.3	46.8	-24.6
0.164	10.2	20.3	30.5	55.3	-24.7
0.154	10.5	20.3	30.8	55.8	-25.0
0.231	4.5	20.3	24.8	52.4	-27.6
0.262	2.8	20.2	23.0	51.4	-28.4
0.365	-0.9	20.3	19.4	48.6	-29.2

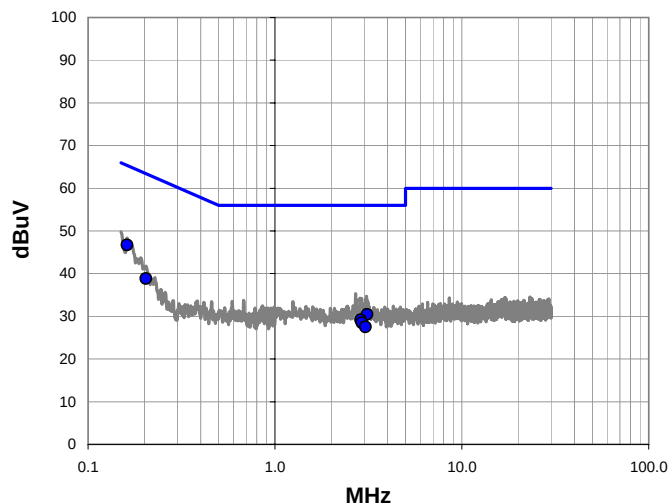
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
		Tested by:		Richard Mellroth
EUT:	1601			
Configuration:	4			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), Ch 165, 6 Mbps			
Deviations:	None			
Comments:	EUT is operating at 100% duty cycle			

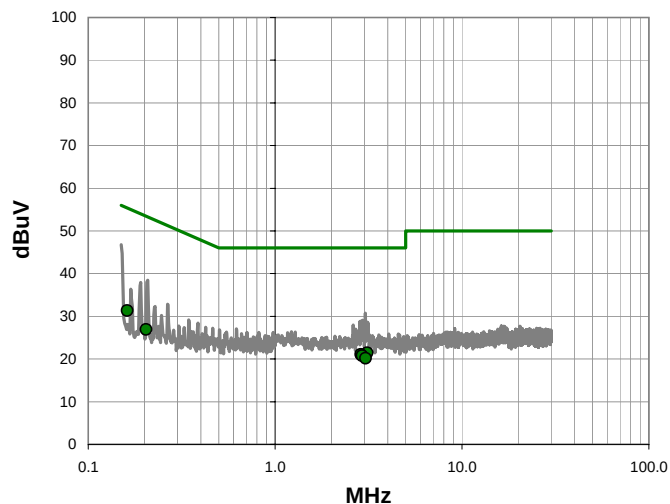
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	167	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.162	26.4	20.3	46.7	65.4	-18.6
0.204	18.5	20.3	38.8	63.4	-24.6
3.112	10.0	20.4	30.4	56.0	-25.6
2.872	8.8	20.4	29.2	56.0	-26.8
2.924	8.1	20.4	28.5	56.0	-27.5
3.052	7.1	20.4	27.5	56.0	-28.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.162	11.0	20.3	31.3	55.4	-24.0
3.112	1.0	20.4	21.4	46.0	-24.6
2.872	0.7	20.4	21.1	46.0	-24.9
2.924	0.4	20.4	20.8	46.0	-25.2
3.052	-0.2	20.4	20.2	46.0	-25.8
0.204	6.6	20.3	26.9	53.4	-26.5

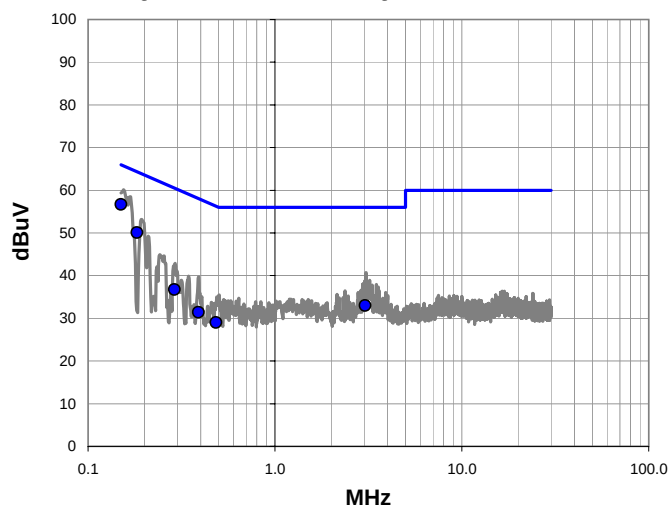
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
EUT:		1601		
Configuration:		4		
Customer:		Microsoft Corporation		
Attendees:		None		
EUT Power:		110VAC/60Hz		
Operating Mode:		Transmitting 802.11(b), Ch 1, 1 Mbps		
Deviations:		None		
Comments:		EUT operating at 100% duty cycle		

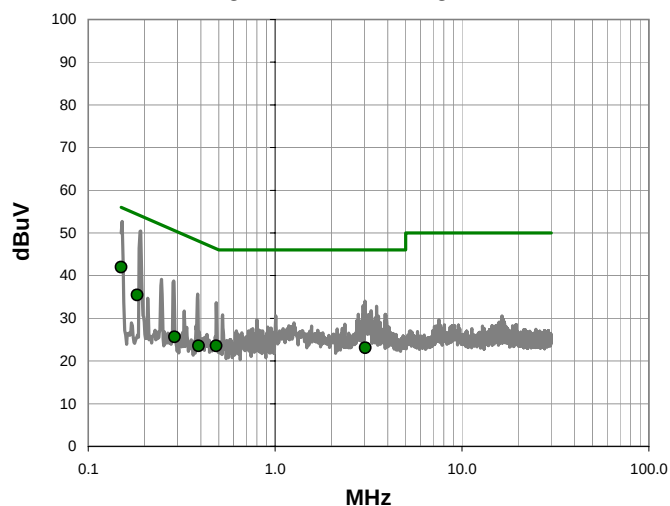
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	170	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	36.4	20.3	56.7	66.0	-9.3
0.183	29.7	20.4	50.1	64.3	-14.3
3.044	12.6	20.4	33.0	56.0	-23.0
0.290	16.5	20.3	36.8	60.5	-23.8
0.389	11.1	20.3	31.4	58.1	-26.7
0.485	8.8	20.2	29.0	56.3	-27.2

Average Data - vs - Average Limit

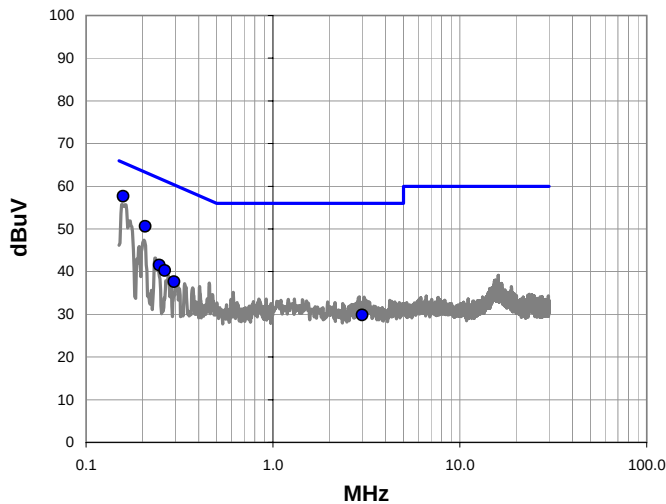
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	21.7	20.3	42.0	56.0	-14.0
0.183	15.1	20.4	35.5	54.3	-18.9
0.485	3.3	20.2	23.5	46.3	-22.7
3.044	2.7	20.4	23.1	46.0	-22.9
0.389	3.3	20.3	23.6	48.1	-24.5
0.290	5.4	20.3	25.7	50.5	-24.9

AC Powerline Conducted Emissions

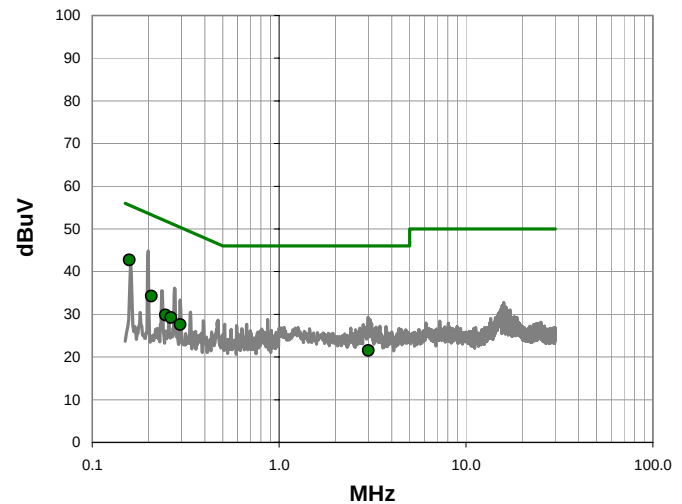
Work Order:	MCSO1665	Date:	07/25/13		
Project:	None	Temperature:	24 °C		
Job Site:	NC05	Humidity:	44% RH		
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	Tested by:	Richard Mellroth
EUT:	1601				
Configuration:	4				
Customer:	Microsoft Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b), Ch 1, 1 Mbps				
Deviations:	None				
Comments:	EUT operating at 100% duty cycle				

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

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.158	37.3	20.3	57.6	65.6	-8.0
0.207	30.3	20.3	50.6	63.3	-12.7
0.247	21.3	20.2	41.5	61.9	-20.3
0.264	20.0	20.2	40.2	61.3	-21.1
0.296	17.4	20.3	37.7	60.4	-22.7
3.000	9.4	20.4	29.8	56.0	-26.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.158	22.4	20.3	42.7	55.6	-12.9
0.207	13.9	20.3	34.2	53.3	-19.1
0.247	9.6	20.2	29.8	51.9	-22.0
0.264	9.0	20.2	29.2	51.3	-22.1
0.296	7.3	20.3	27.6	50.4	-22.8
3.000	1.1	20.4	21.5	46.0	-24.5

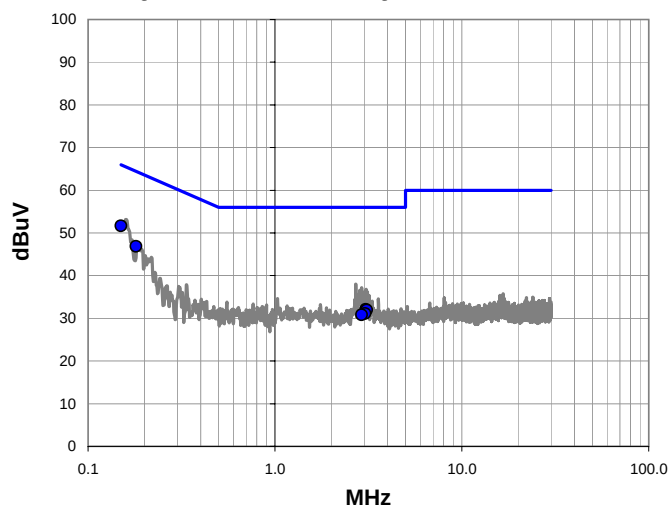
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
		Tested by: Richard Mellroth		
EUT:	1601			
Configuration:	4			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), Ch 6, 1 Mbps			
Deviations:	None			
Comments:	EUT operating at 100% duty cycle			

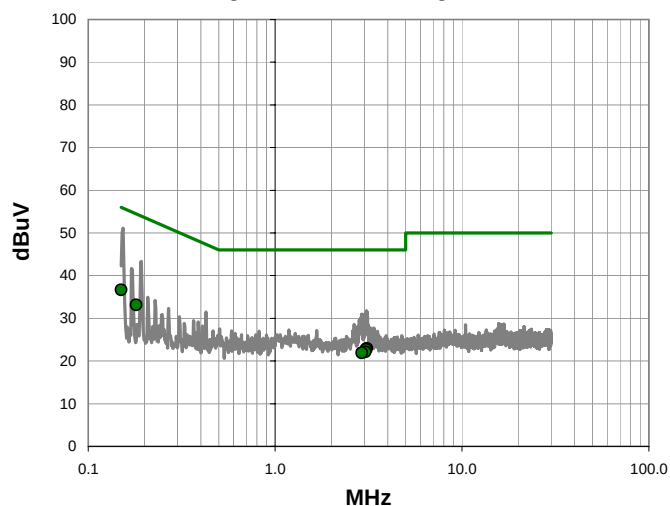
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	172	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	31.4	20.3	51.7	66.0	-14.3
0.181	26.5	20.4	46.9	64.4	-17.6
3.068	11.7	20.4	32.1	56.0	-23.9
3.100	11.5	20.4	31.9	56.0	-24.1
3.040	10.7	20.4	31.1	56.0	-24.9
2.916	10.4	20.4	30.8	56.0	-25.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	16.4	20.3	36.7	56.0	-19.3
0.181	12.8	20.4	33.2	54.4	-21.3
3.100	2.5	20.4	22.9	46.0	-23.1
3.068	2.3	20.4	22.7	46.0	-23.3
3.040	1.7	20.4	22.1	46.0	-23.9
2.916	1.5	20.4	21.9	46.0	-24.1

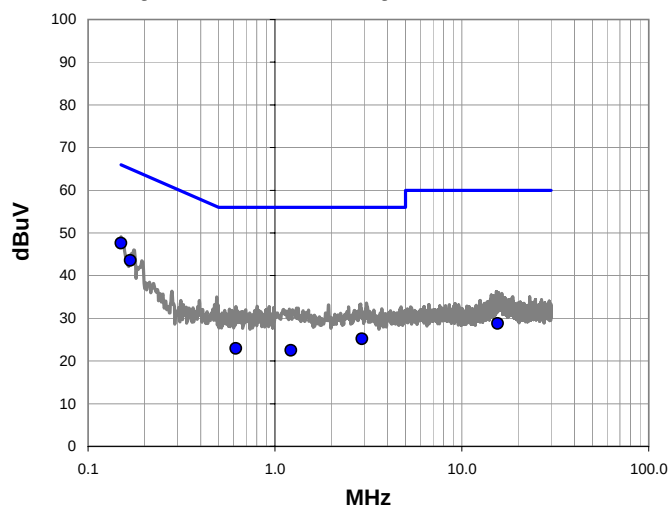
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
		Tested by:		Richard Mellroth
EUT:	1601			
Configuration:	4			
Customer:	Microsoft Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), Ch 6, 1 Mbps			
Deviations:	None			
Comments:	EUT operating at 100% duty cycle			

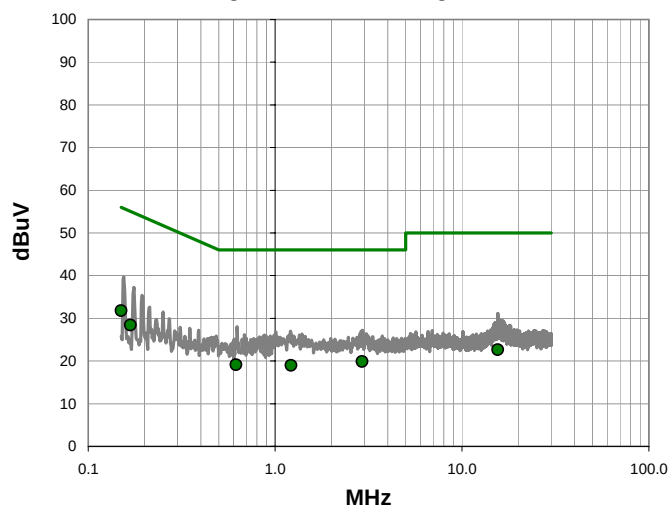
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	173	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	27.3	20.3	47.6	66.0	-18.4
0.168	23.2	20.3	43.5	65.1	-21.5
2.924	4.8	20.4	25.2	56.0	-30.8
15.552	7.7	21.1	28.8	60.0	-31.2
0.618	2.7	20.2	22.9	56.0	-33.1
1.216	2.2	20.3	22.5	56.0	-33.5

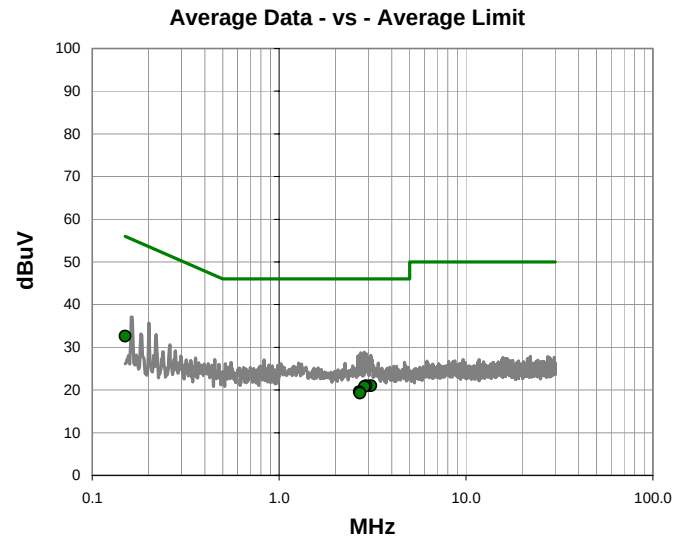
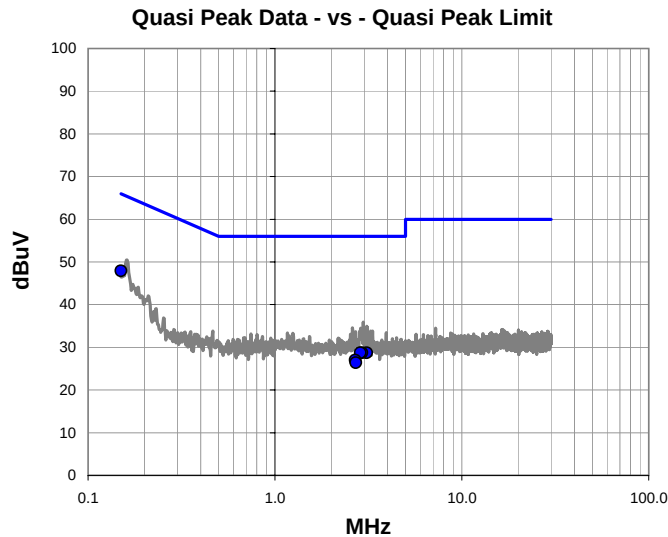
Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	11.5	20.3	31.8	56.0	-24.2
2.924	-0.5	20.4	19.9	46.0	-26.1
0.168	8.1	20.3	28.4	55.1	-26.6
0.618	-1.1	20.2	19.1	46.0	-26.9
1.216	-1.3	20.3	19.0	46.0	-27.0
15.552	1.6	21.1	22.7	50.0	-27.3

AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13		
Project:	None	Temperature:	24 °C		
Job Site:	NC05	Humidity:	44% RH		
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	Tested by:	Richard Mellroth
EUT:	1601				
Configuration:	4				
Customer:	Microsoft Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b), Ch 11, 1 Mbps				
Deviations:	None				
Comments:	EUT operating at 100% duty cycle				

Test Specifications		Test Method	
FCC 15.207:2013		ANSI C63.10:2009	
Run #	174	Line:	High Line
Ext. Attenuation:	20	Results	Pass



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	27.6	20.3	47.9	66.0	-18.1
3.096	8.3	20.4	28.7	56.0	-27.3
2.924	8.3	20.4	28.7	56.0	-27.3
2.868	8.3	20.4	28.7	56.0	-27.3
2.688	6.6	20.4	27.0	56.0	-29.0
2.716	6.0	20.4	26.4	56.0	-29.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	12.3	20.3	32.6	56.0	-23.4
3.096	0.6	20.4	21.0	46.0	-25.0
2.924	0.6	20.4	21.0	46.0	-25.0
2.868	0.4	20.4	20.8	46.0	-25.2
2.688	-0.8	20.4	19.6	46.0	-26.4
2.716	-1.1	20.4	19.3	46.0	-26.7

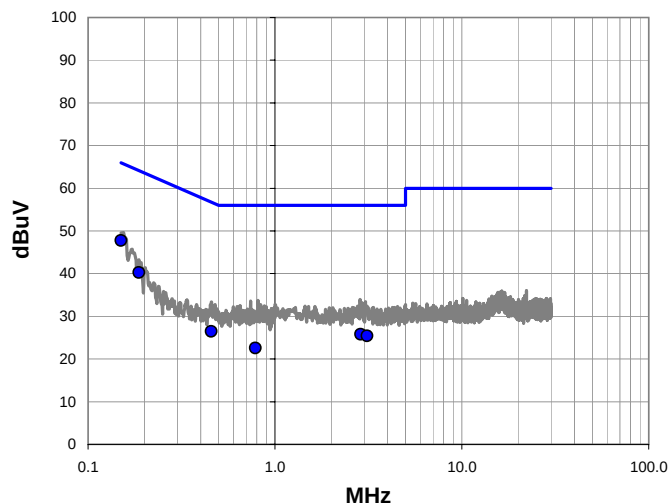
AC Powerline Conducted Emissions

Work Order:	MCSO1665	Date:	07/25/13	
Project:	None	Temperature:	24 °C	
Job Site:	NC05	Humidity:	44% RH	
Serial Number:	6079632553	Barometric Pres.:	1019 mbar	
EUT:		1601		
Configuration:		4		
Customer:		Microsoft Corporation		
Attendees:		None		
EUT Power:		110VAC/60Hz		
Operating Mode:		Transmitting 802.11(b), Ch 11, 1 Mbps		
Deviations:		None		
Comments:		EUT operating at 100% duty cycle		

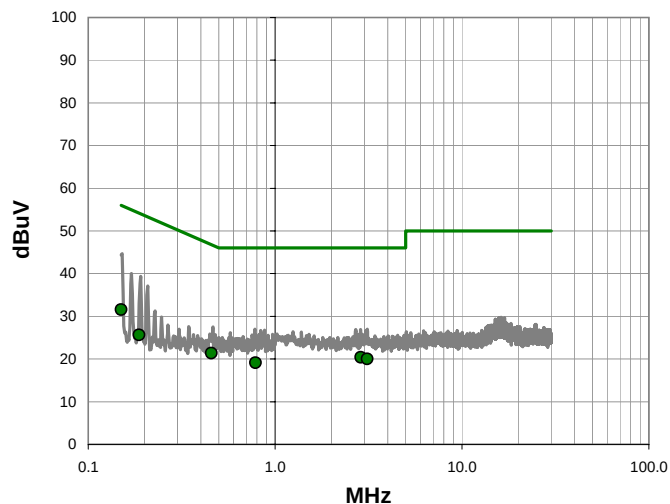
Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

Run #	175	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	27.5	20.3	47.8	66.0	-18.2
0.187	19.9	20.4	40.3	64.2	-23.9
2.876	5.4	20.4	25.8	56.0	-30.2
0.457	6.2	20.3	26.5	56.7	-30.3
3.108	5.0	20.4	25.4	56.0	-30.6
0.787	2.3	20.3	22.6	56.0	-33.4

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	11.3	20.3	31.6	56.0	-24.4
0.457	1.1	20.3	21.4	46.7	-25.4
2.876	0.0	20.4	20.4	46.0	-25.6
3.108	-0.4	20.4	20.0	46.0	-26.0
0.787	-1.1	20.3	19.2	46.0	-26.8
0.187	5.3	20.4	25.7	54.2	-28.5