

POWER SPECTRAL DENSITY



XMIT 2017.01.26

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.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2/25/2016	2/25/2017
Attenuator	Fairview Microwave	SA4018-20	TQY	2/25/2016	2/25/2017
Cable	Fairview Microwave	SCK0963-60	TXF	11/18/2016	11/18/2017
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	3/15/2016	3/15/2017
Generator - Signal	Agilent	E4422B	TGS	3/27/2015	3/27/2018

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 100 kHz RBW.

POWER SPECTRAL DENSITY



EUT: RTH9580WF01

Serial Number: 0027301

Customer: Honeywell, Automation and Control Solutions

Attendees: Job Villafuerte

Project: None

Tested by: Jonathan Kiefer

Work Order: HNYW0203

Date: 02/08/17

Temperature: 22.4 °C

Humidity: 34.6% RH

Barometric Pres.: 1019 mbar

Job Site: TX09

Power: 110VAC/60Hz

TEST SPECIFICATIONS

FCC 15.247:2017

Test Method

ANSI C63.10:2013

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

Configuration #

1

Signature



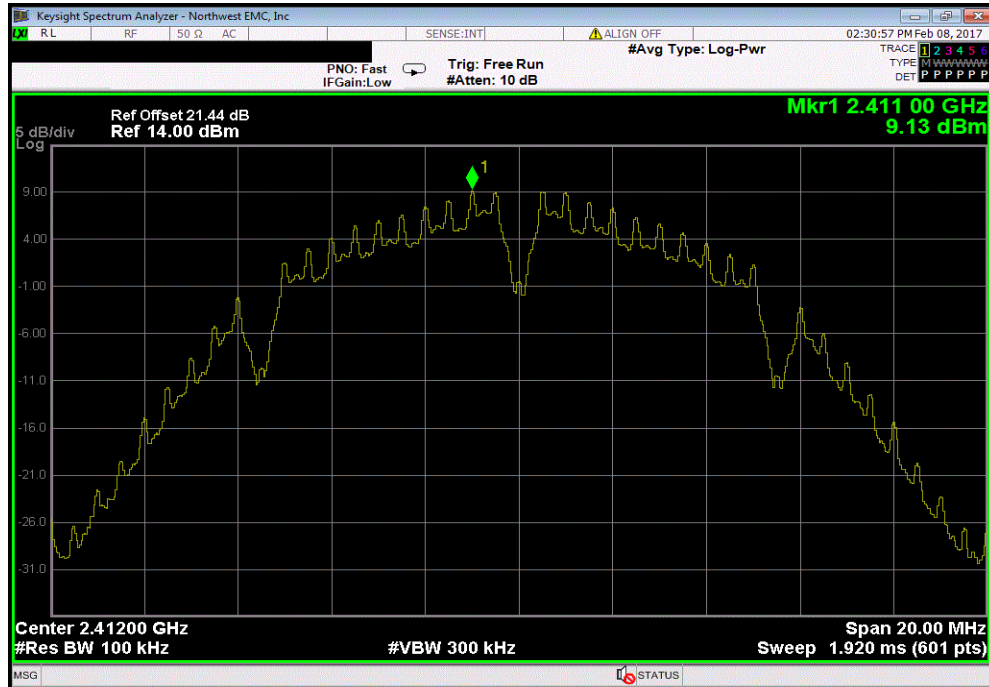
	Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit < dBm/3kHz	Results
Antenna A0					
2400 MHz - 2483.5 MHz Band					
802.11(b) 1 Mbps					
Low Channel 1, 2412 MHz	9.135	-15.2	-6.065	8	Pass
Mid Channel 6, 2437 MHz	9.392	-15.2	-5.808	8	Pass
High Channel 11, 2462 MHz	9.269	-15.2	-5.931	8	Pass
802.11(b) 11 Mbps					
Low Channel 1, 2412 MHz	9.742	-15.2	-5.458	8	Pass
Mid Channel 6, 2437 MHz	9.888	-15.2	-5.312	8	Pass
High Channel 11, 2462 MHz	9.599	-15.2	-5.601	8	Pass
802.11(g) 6 Mbps					
Low Channel 1, 2412 MHz	2.318	-15.2	-12.882	8	Pass
Mid Channel 6, 2437 MHz	4.331	-15.2	-10.869	8	Pass
High Channel 11, 2462 MHz	2.476	-15.2	-12.724	8	Pass
802.11(g) 36 Mbps					
Low Channel 1, 2412 MHz	2.362	-15.2	-12.838	8	Pass
Mid Channel 6, 2437 MHz	4.348	-15.2	-10.852	8	Pass
High Channel 11, 2462 MHz	2.638	-15.2	-12.562	8	Pass
802.11(g) 54 Mbps					
Low Channel 1, 2412 MHz	2.465	-15.2	-12.735	8	Pass
Mid Channel 6, 2437 MHz	4.4	-15.2	-10.8	8	Pass
High Channel 11, 2462 MHz	2.645	-15.2	-12.555	8	Pass
802.11(n) MCS0					
Low Channel 1, 2412 MHz	2.348	-15.2	-12.852	8	Pass
Mid Channel 6, 2437 MHz	4.363	-15.2	-10.837	8	Pass
High Channel 11, 2462 MHz	2.514	-15.2	-12.686	8	Pass
802.11(n) MCS7					
Low Channel 1, 2412 MHz	2.5	-15.2	-12.7	8	Pass
Mid Channel 6, 2437 MHz	4.523	-15.2	-10.677	8	Pass
High Channel 11, 2462 MHz	2.677	-15.2	-12.523	8	Pass
Antenna A1					
2400 MHz - 2483.5 MHz Band					
802.11(b) 1 Mbps					
Low Channel 1, 2412 MHz	9.119	-15.2	-6.081	8	Pass
Mid Channel 6, 2437 MHz	9.305	-15.2	-5.895	8	Pass
High Channel 11, 2462 MHz	9.139	-15.2	-6.061	8	Pass
802.11(b) 11 Mbps					
Low Channel 1, 2412 MHz	9.464	-15.2	-5.736	8	Pass
Mid Channel 6, 2437 MHz	9.773	-15.2	-5.427	8	Pass
High Channel 11, 2462 MHz	9.862	-15.2	-5.338	8	Pass
802.11(g) 6 Mbps					
Low Channel 1, 2412 MHz	2.103	-15.2	-13.097	8	Pass
Mid Channel 6, 2437 MHz	4.243	-15.2	-10.957	8	Pass
High Channel 11, 2462 MHz	2.534	-15.2	-12.666	8	Pass
802.11(g) 36 Mbps					
Low Channel 1, 2412 MHz	2.109	-15.2	-13.091	8	Pass
Mid Channel 6, 2437 MHz	4.449	-15.2	-10.751	8	Pass
High Channel 11, 2462 MHz	2.413	-15.2	-12.787	8	Pass
802.11(g) 54 Mbps					
Low Channel 1, 2412 MHz	2.127	-15.2	-13.073	8	Pass
Mid Channel 6, 2437 MHz	4.382	-15.2	-10.818	8	Pass
High Channel 11, 2462 MHz	2.507	-15.2	-12.693	8	Pass
802.11(n) MCS0					
Low Channel 1, 2412 MHz	2.2	-15.2	-13	8	Pass
Mid Channel 6, 2437 MHz	4.425	-15.2	-10.775	8	Pass
High Channel 11, 2462 MHz	2.425	-15.2	-12.775	8	Pass
802.11(n) MCS7					
Low Channel 1, 2412 MHz	2.363	-15.2	-12.837	8	Pass
Mid Channel 6, 2437 MHz	4.381	-15.2	-10.819	8	Pass
High Channel 11, 2462 MHz	2.55	-15.2	-12.65	8	Pass

POWER SPECTRAL DENSITY

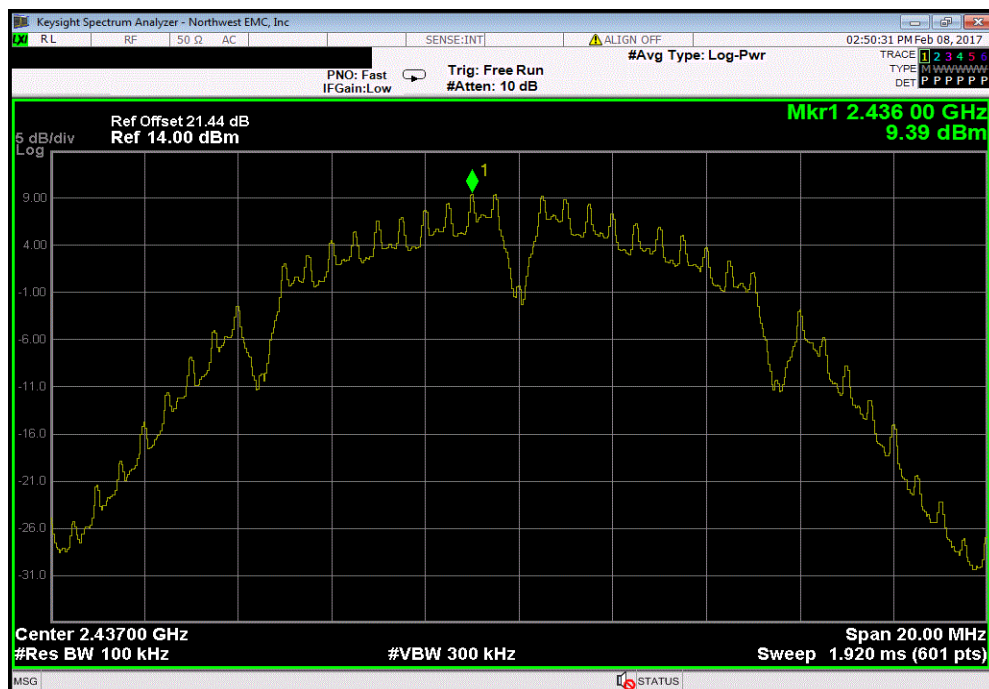


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.135	-15.2	-6.065	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.392	-15.2	-5.808	8	Pass	

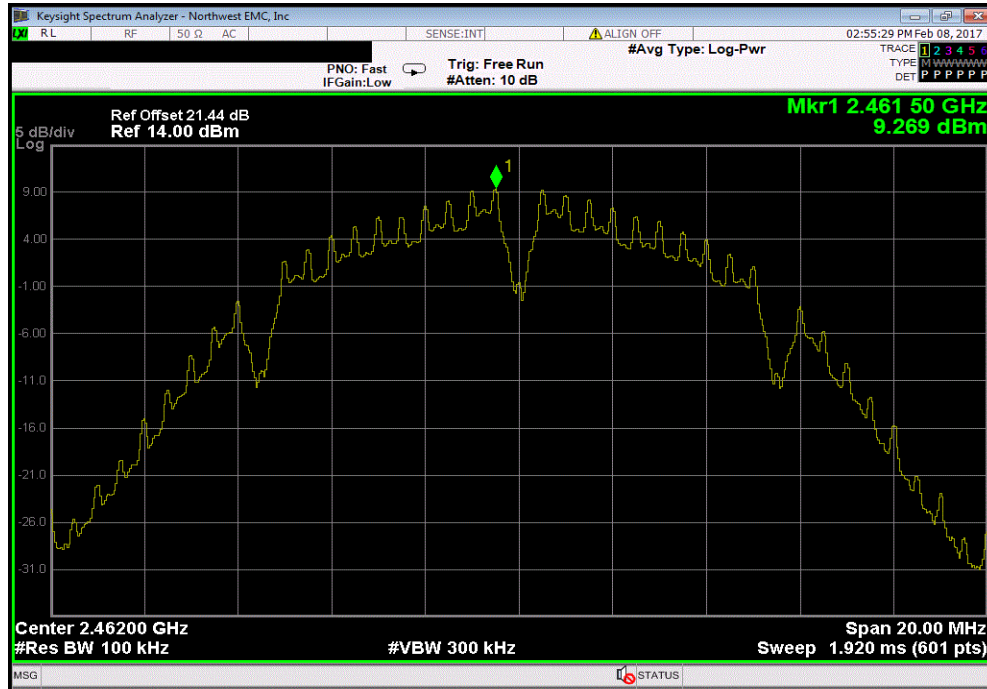


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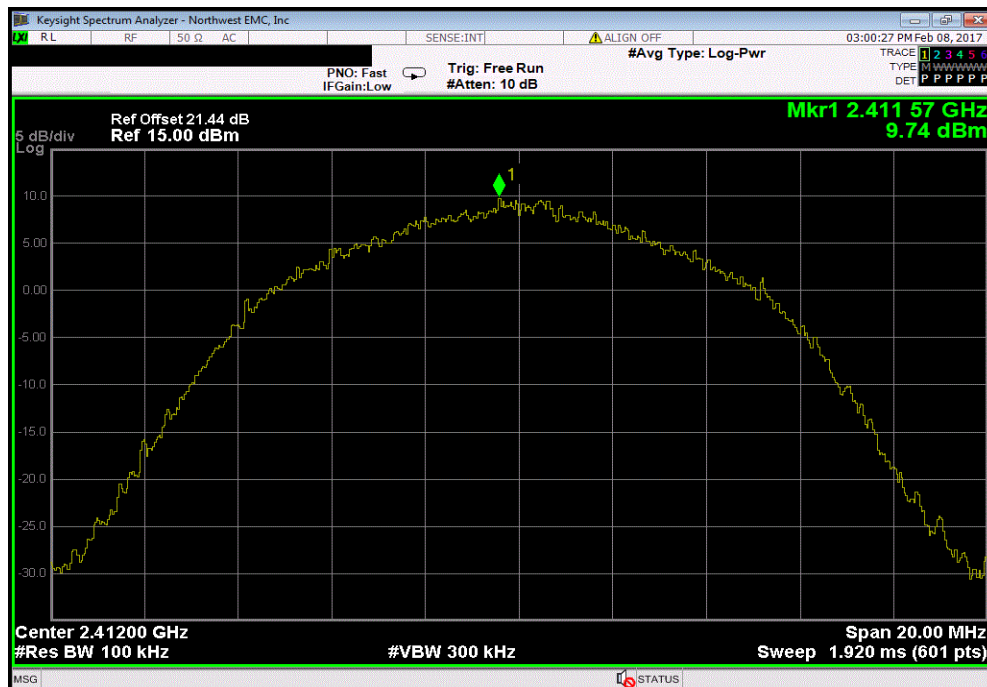


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.269	-15.2	-5.931	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.742	-15.2	-5.458	8	Pass	

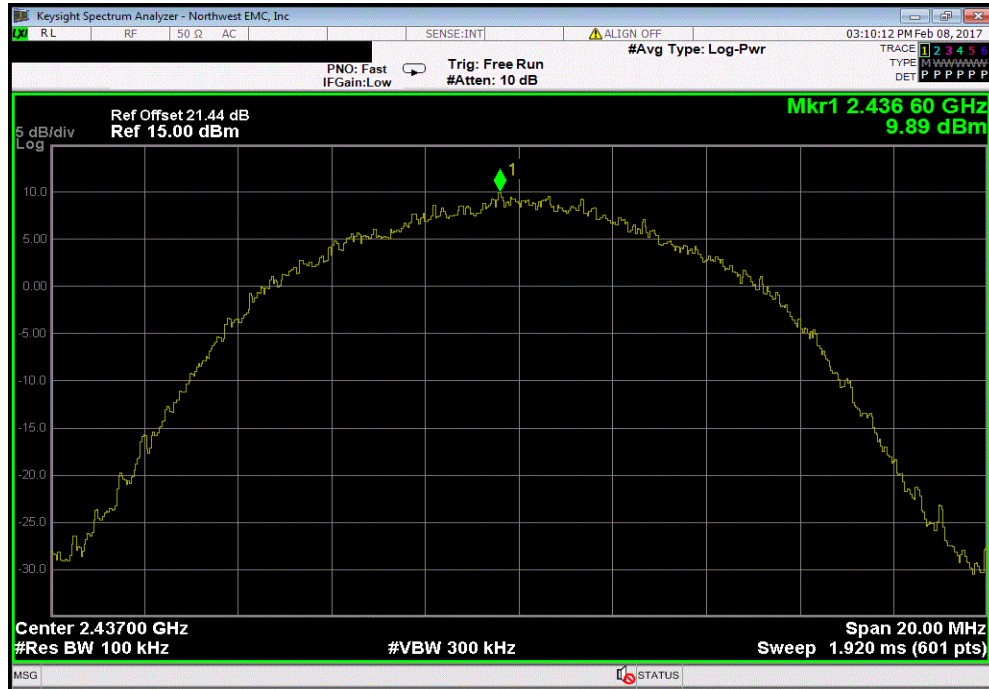


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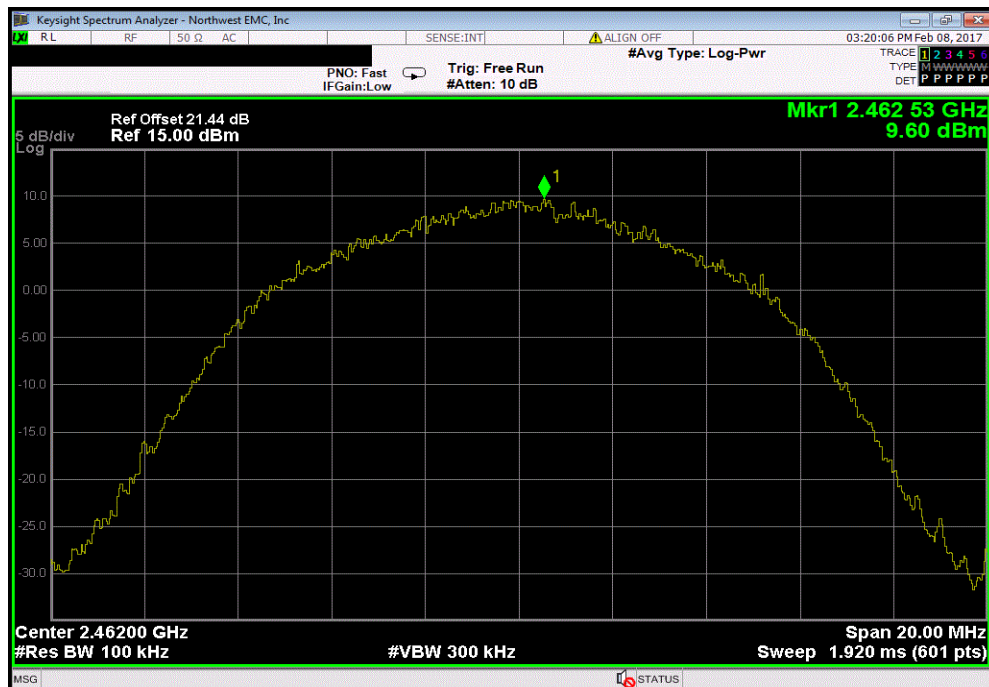


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.888	-15.2	-5.312	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.599	-15.2	-5.601	8	Pass	

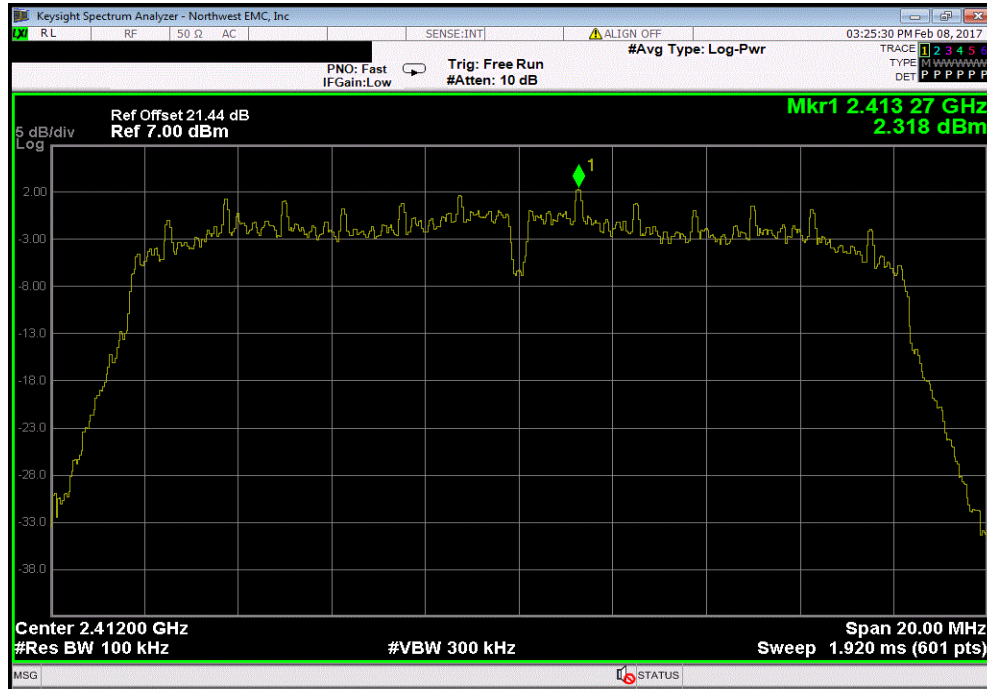


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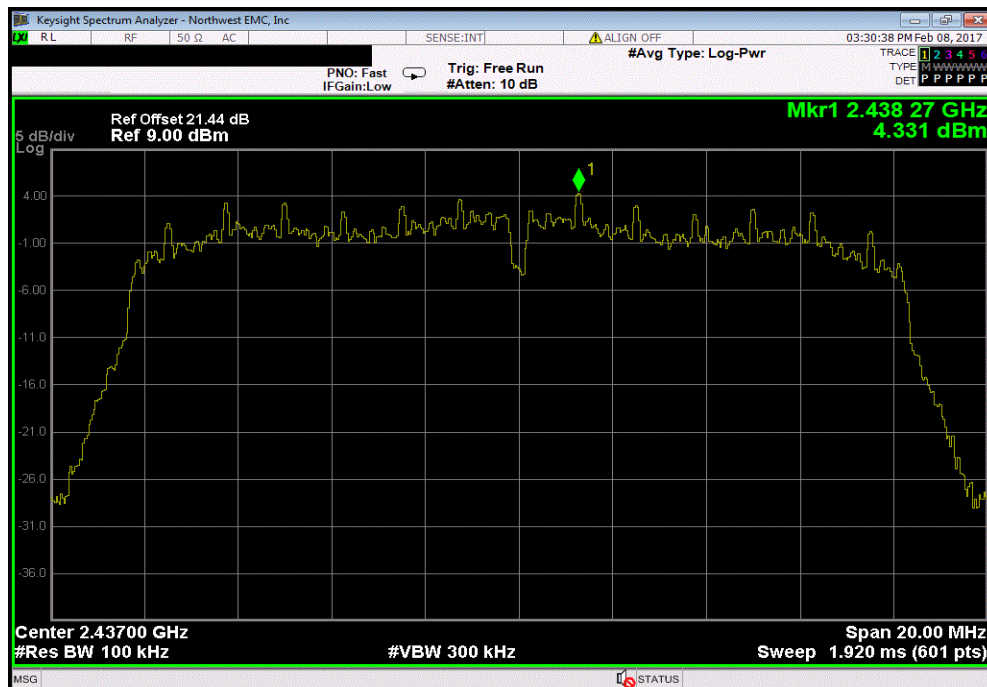


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.318	-15.2	-12.882	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.331	-15.2	-10.869	8	Pass	

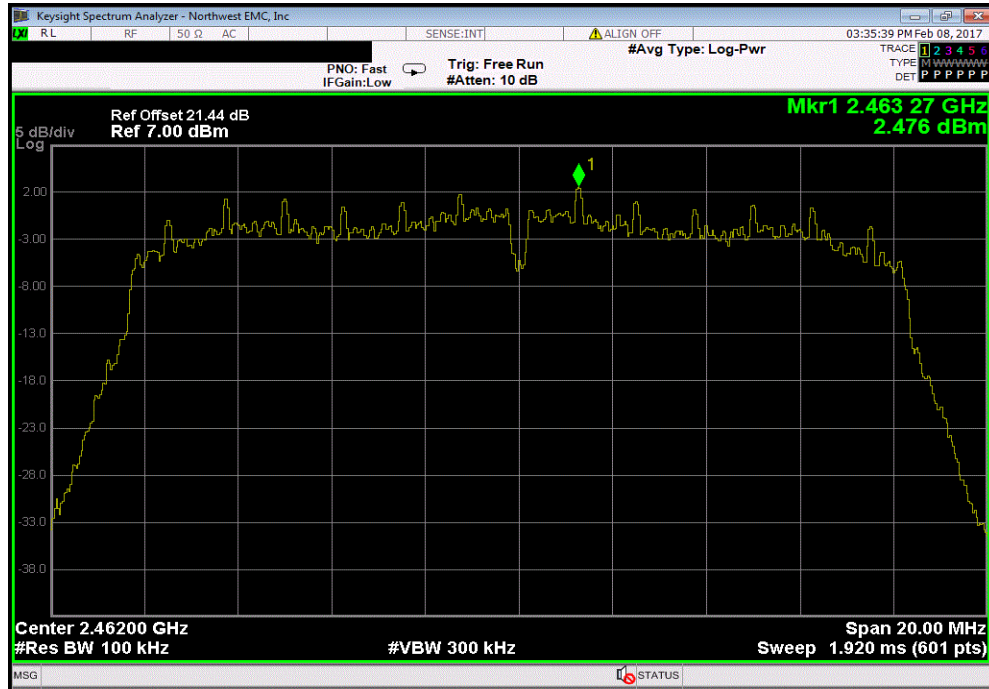


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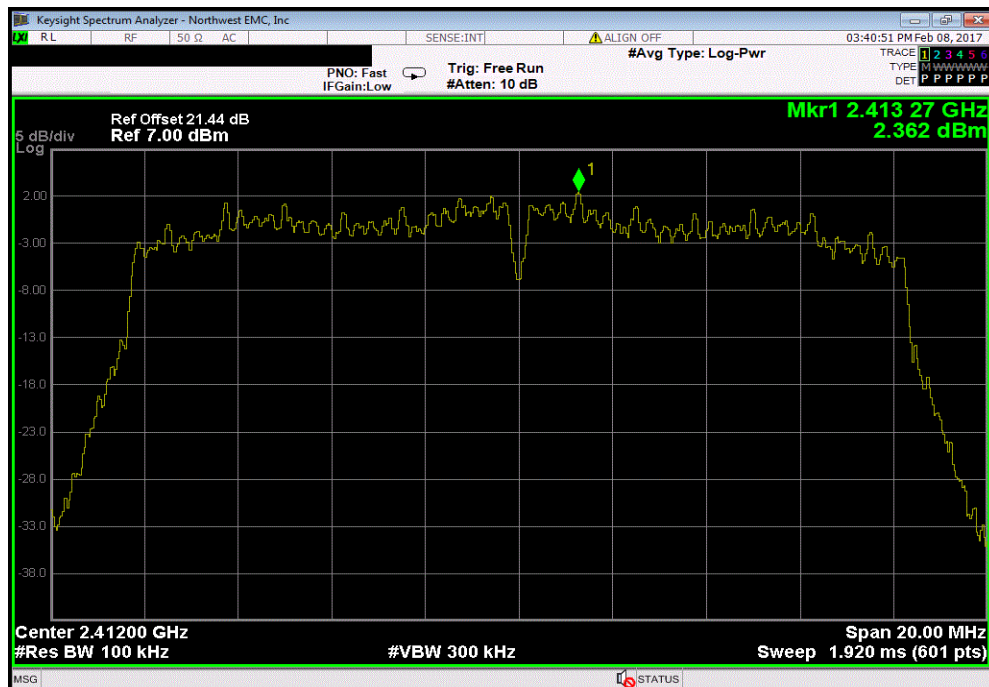


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.476	-15.2	-12.724	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.362	-15.2	-12.838	8	Pass	

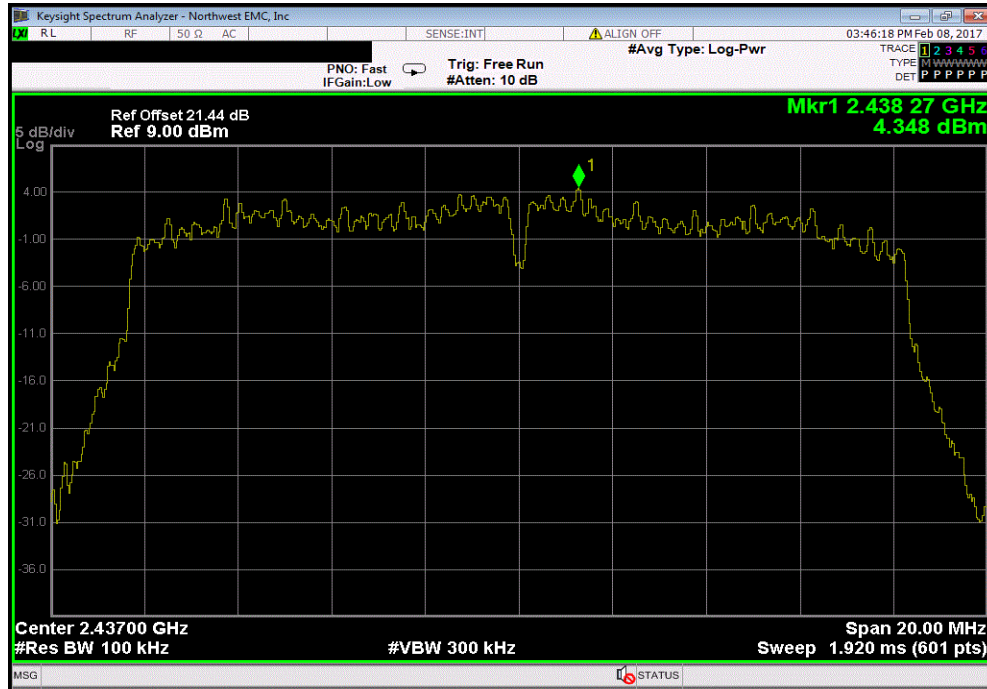


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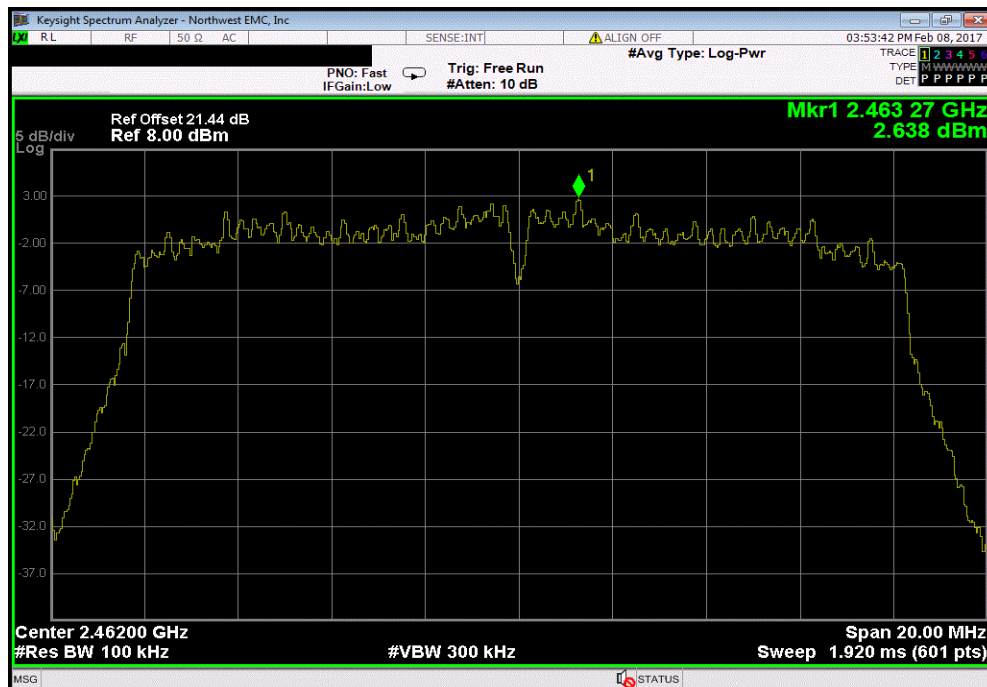


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.348	-15.2	-10.852	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.638	-15.2	-12.562	8	Pass	

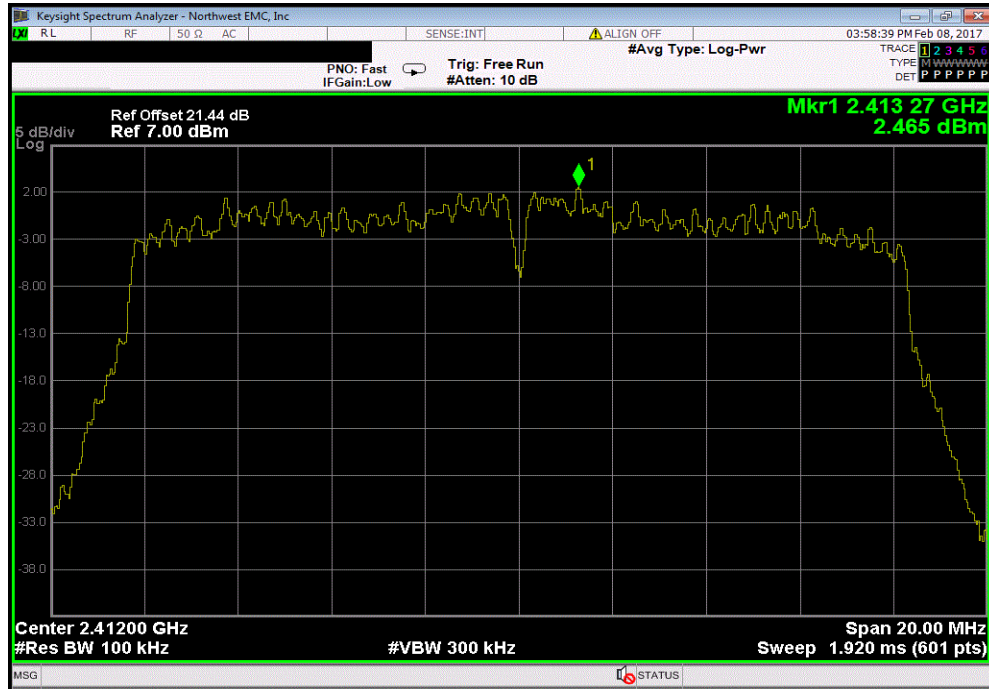


POWER SPECTRAL DENSITY

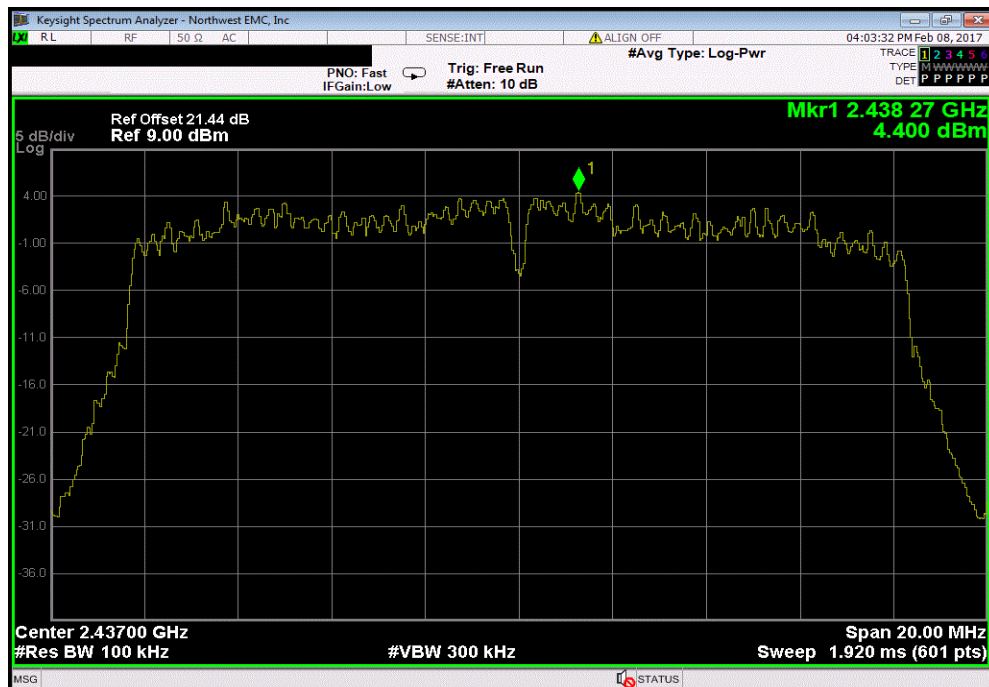


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.465	-15.2	-12.735	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.4	-15.2	-10.8	8	Pass	

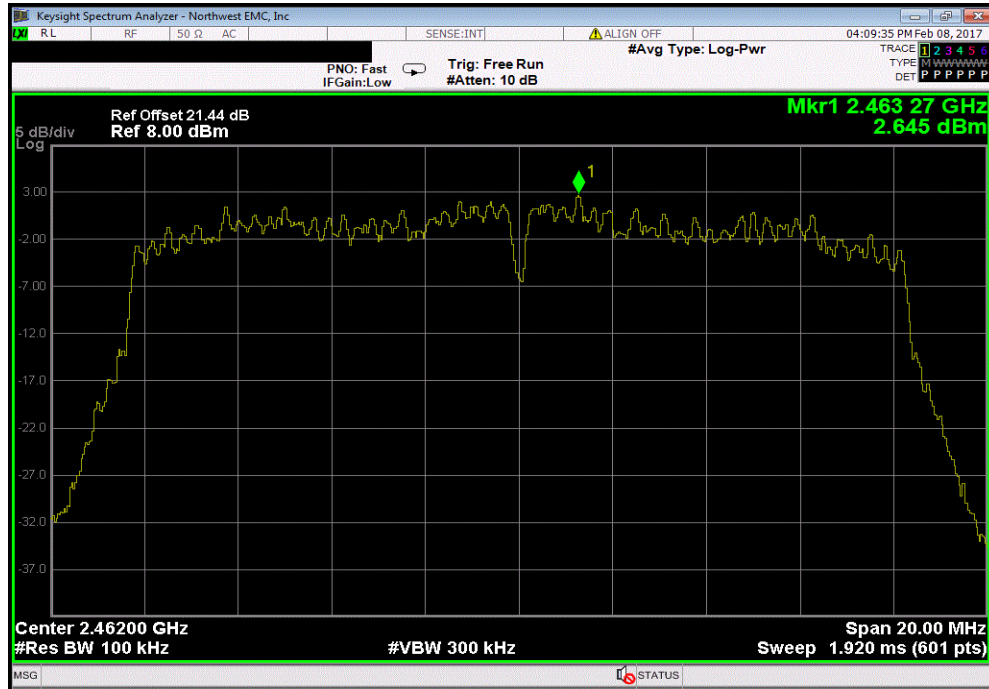


POWER SPECTRAL DENSITY

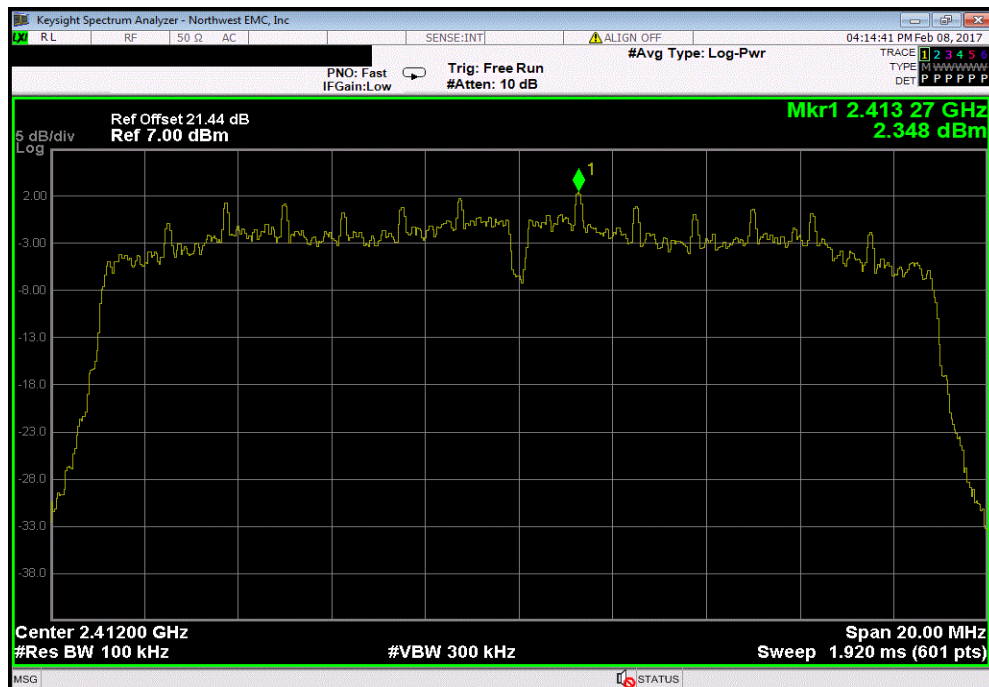


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit	Results
	dBm/100kHz			dBm/3kHz	< dBm/3kHz	
	2.645	-15.2	-12.555	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit	Results
	dBm/100kHz			dBm/3kHz	< dBm/3kHz	
	2.348	-15.2	-12.852	8	Pass	

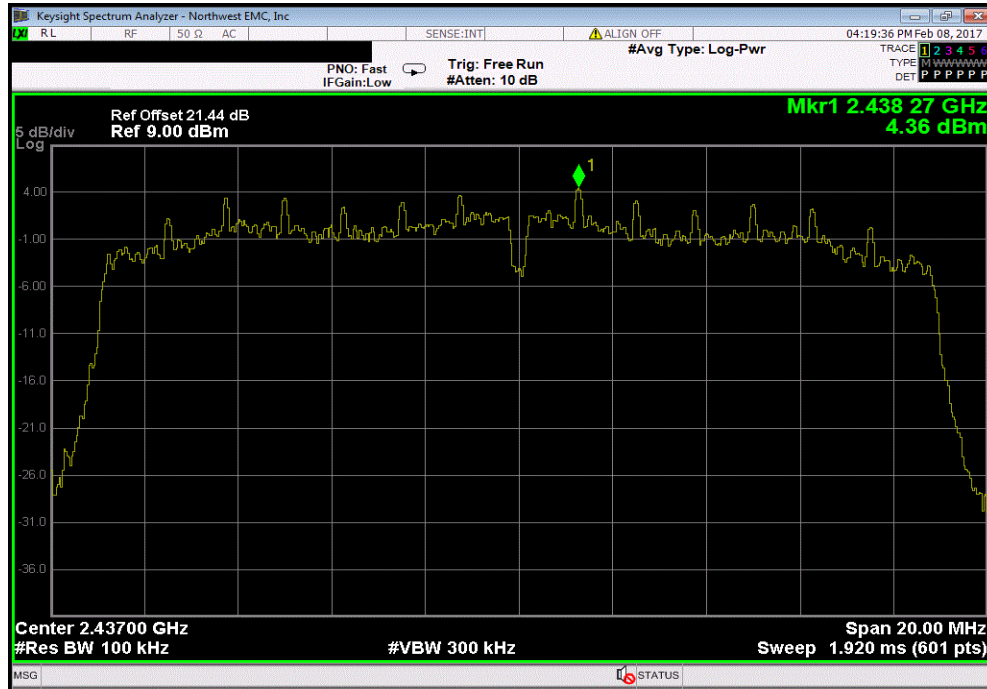


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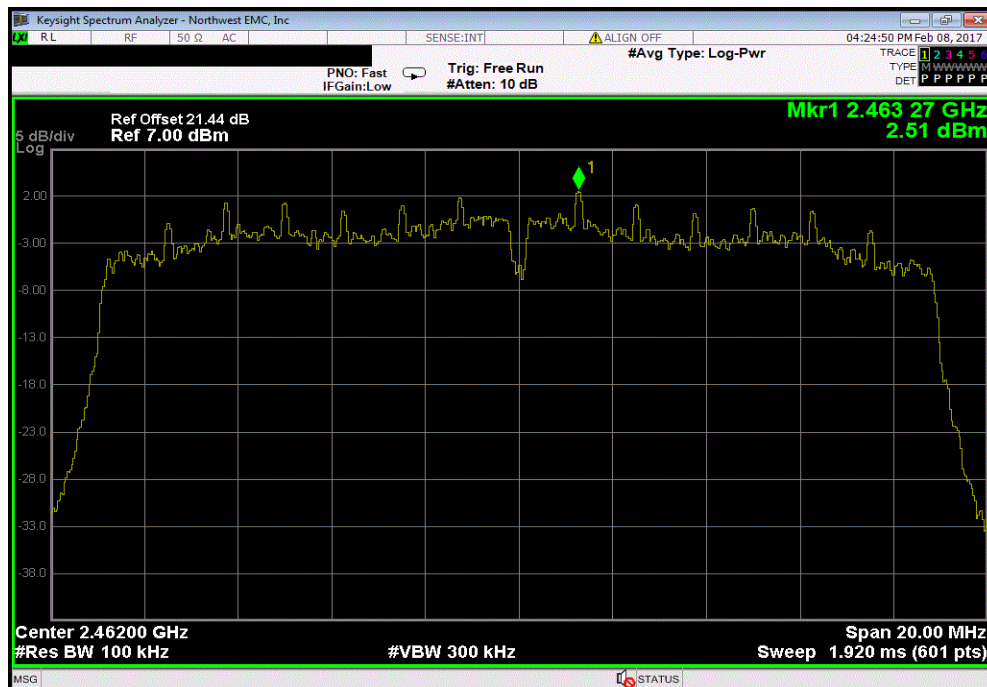


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.363	-15.2	-10.837	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.514	-15.2	-12.686	8	Pass	

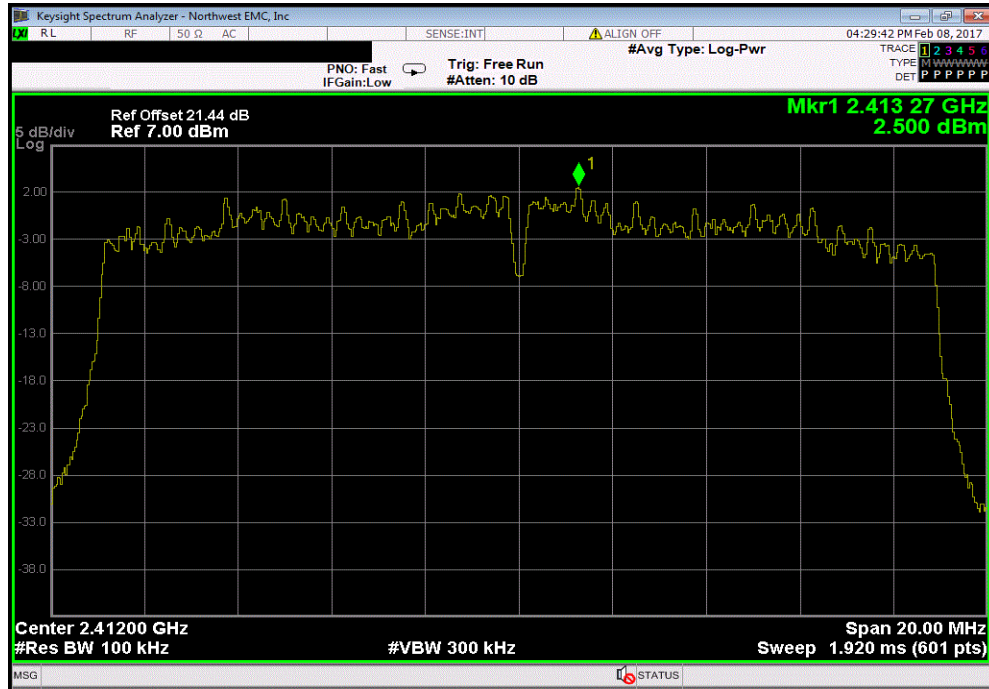


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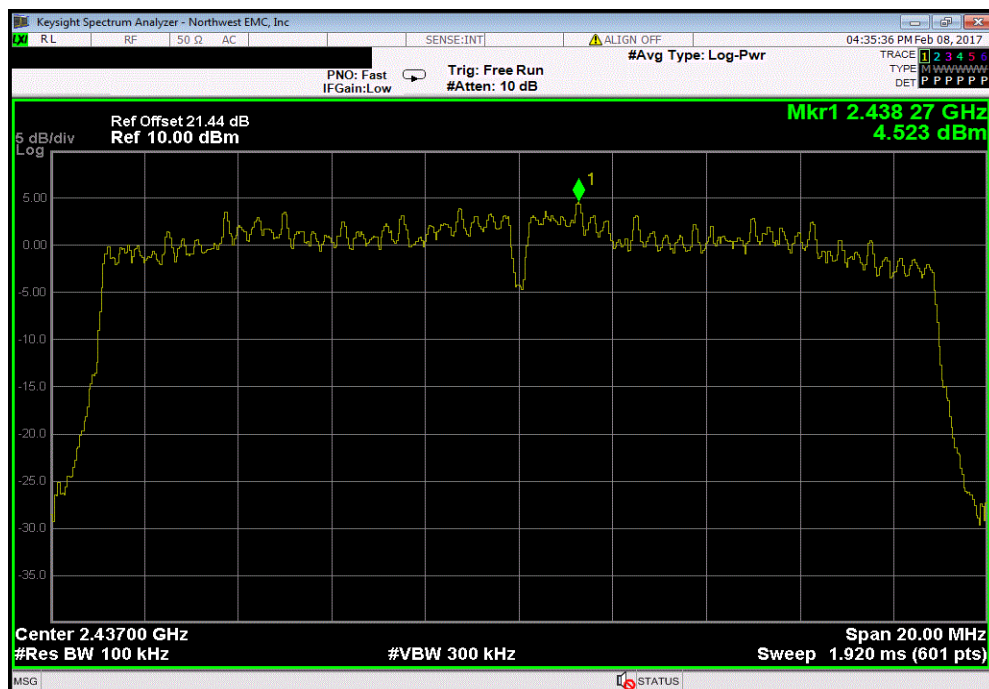


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.5	-15.2	-12.7	8	Pass	



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.523	-15.2	-10.677	8	Pass	

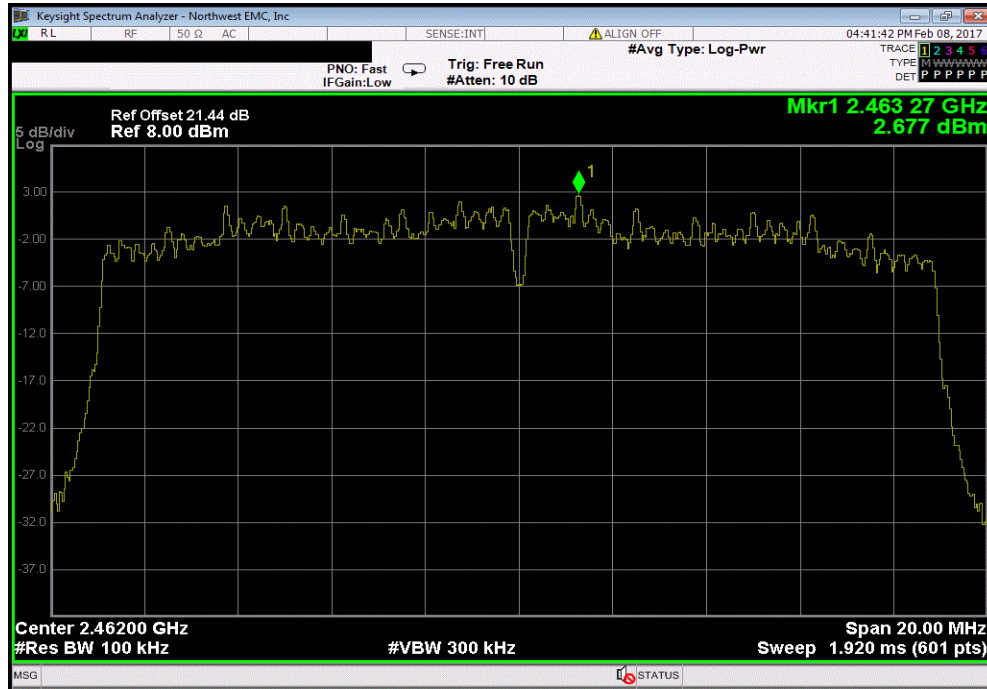


POWER SPECTRAL DENSITY

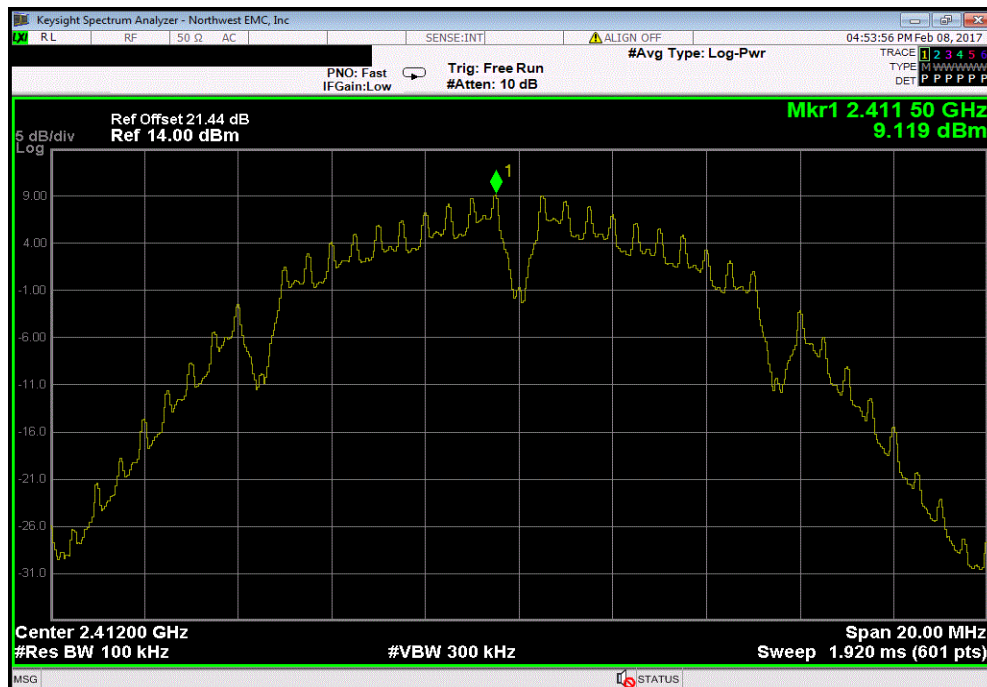


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Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.677	-15.2	-12.523	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.119	-15.2	-6.081	8	Pass	

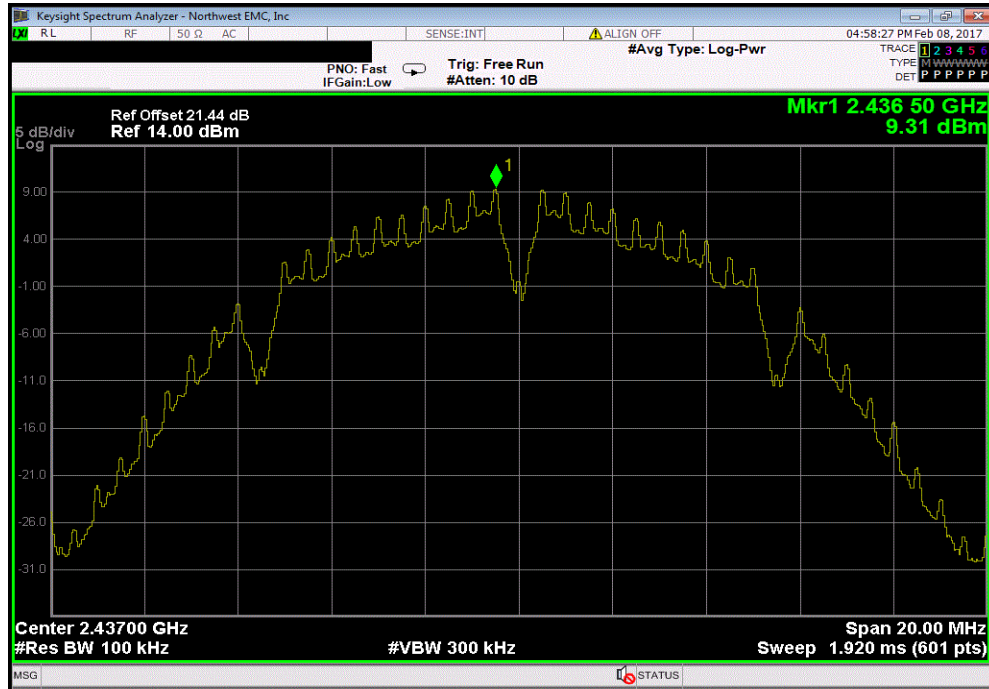


POWER SPECTRAL DENSITY

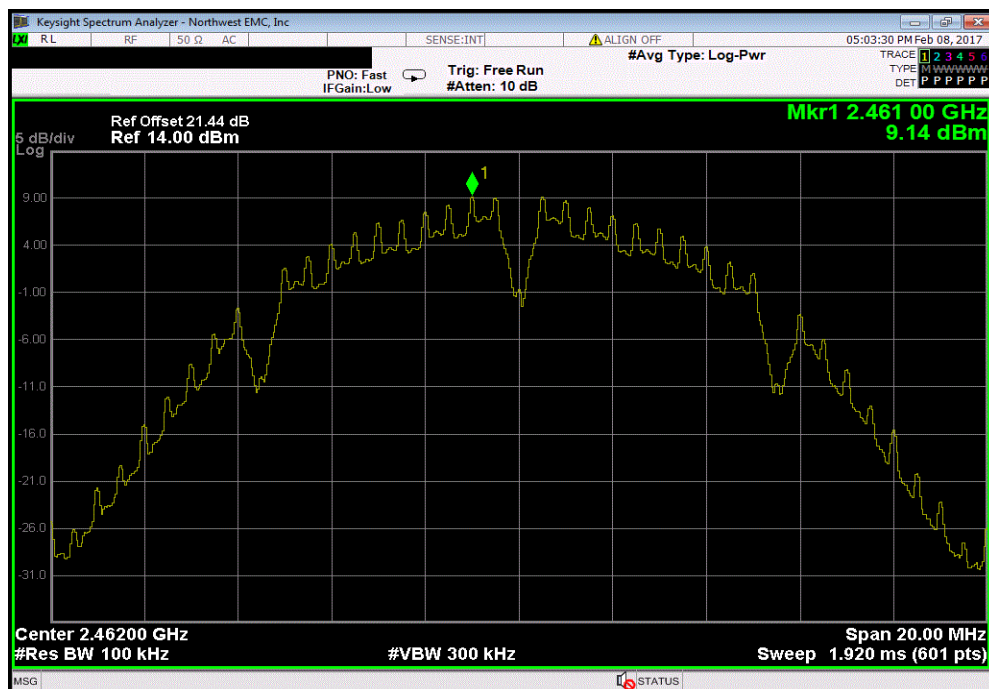


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Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.305	-15.2	-5.895	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.139	-15.2	-6.061	8	Pass	

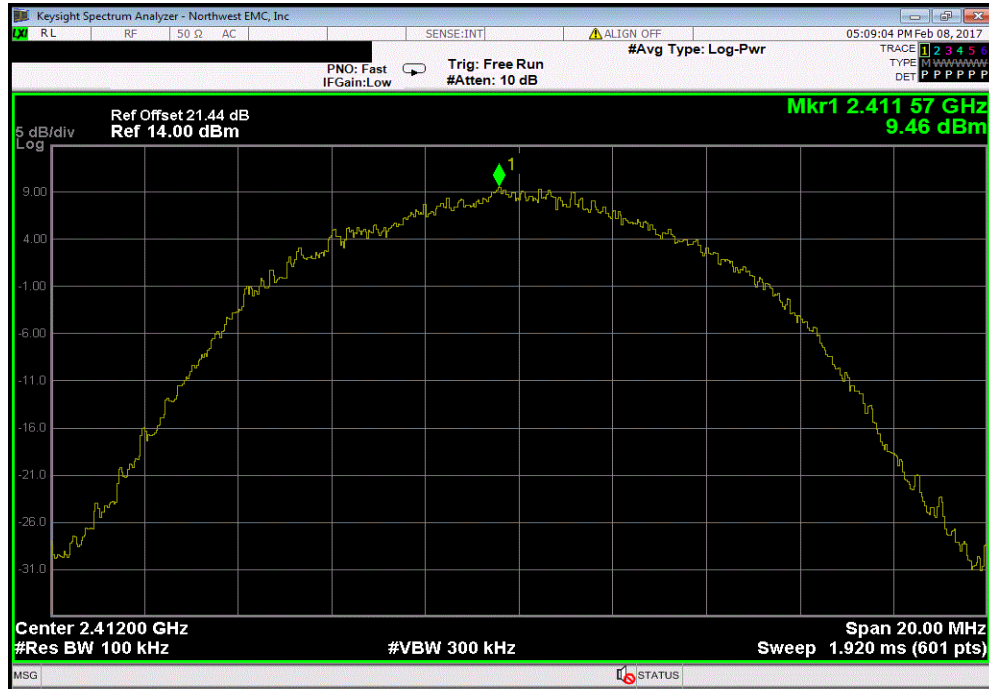


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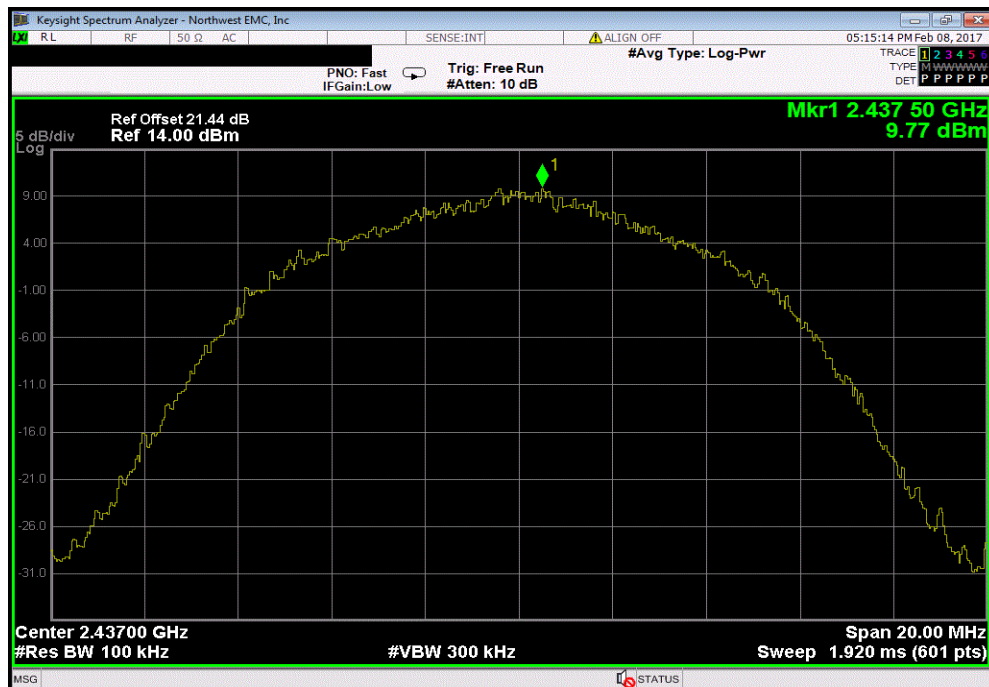


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Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.464	-15.2	-5.736	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.773	-15.2	-5.427	8	Pass	

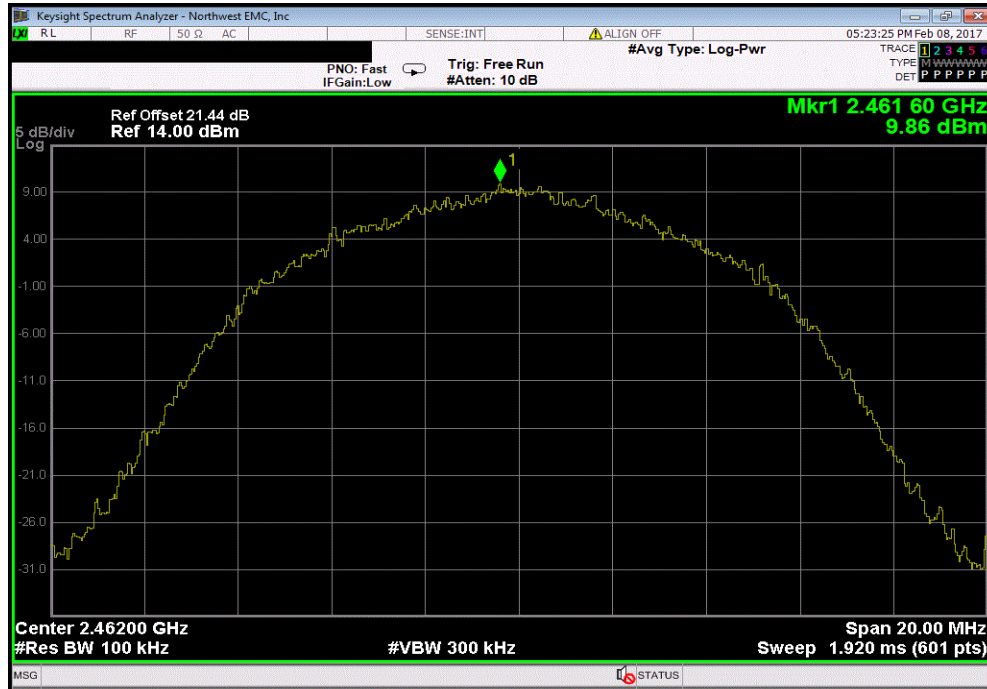


POWER SPECTRAL DENSITY

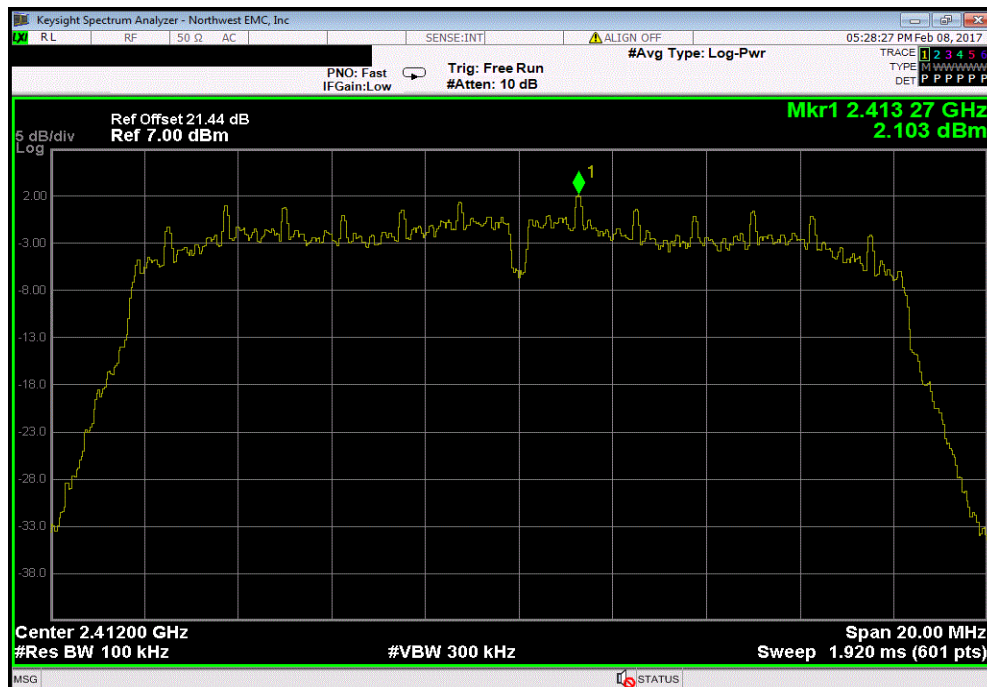


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Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	9.862	-15.2	-5.338	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.103	-15.2	-13.097	8	Pass	

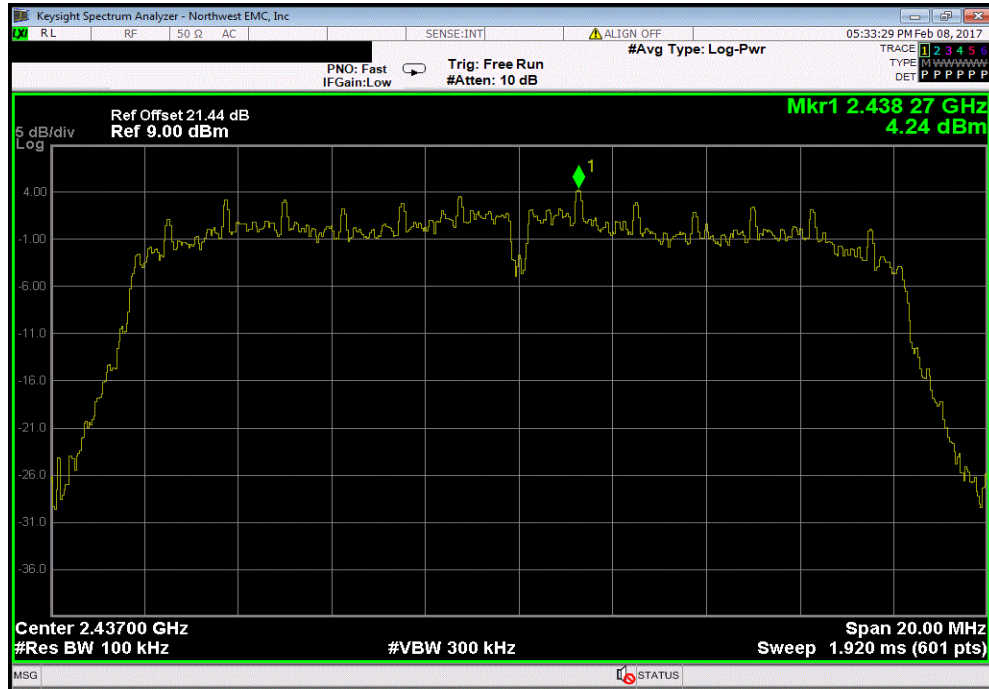


POWER SPECTRAL DENSITY

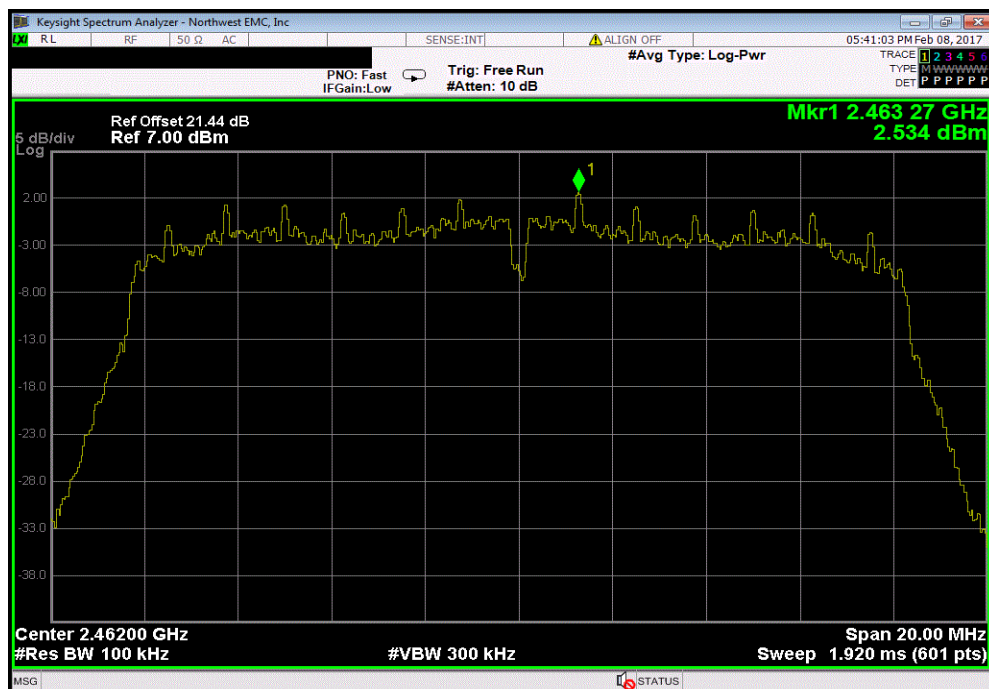


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.243	-15.2	-10.957	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.534	-15.2	-12.666	8	Pass	

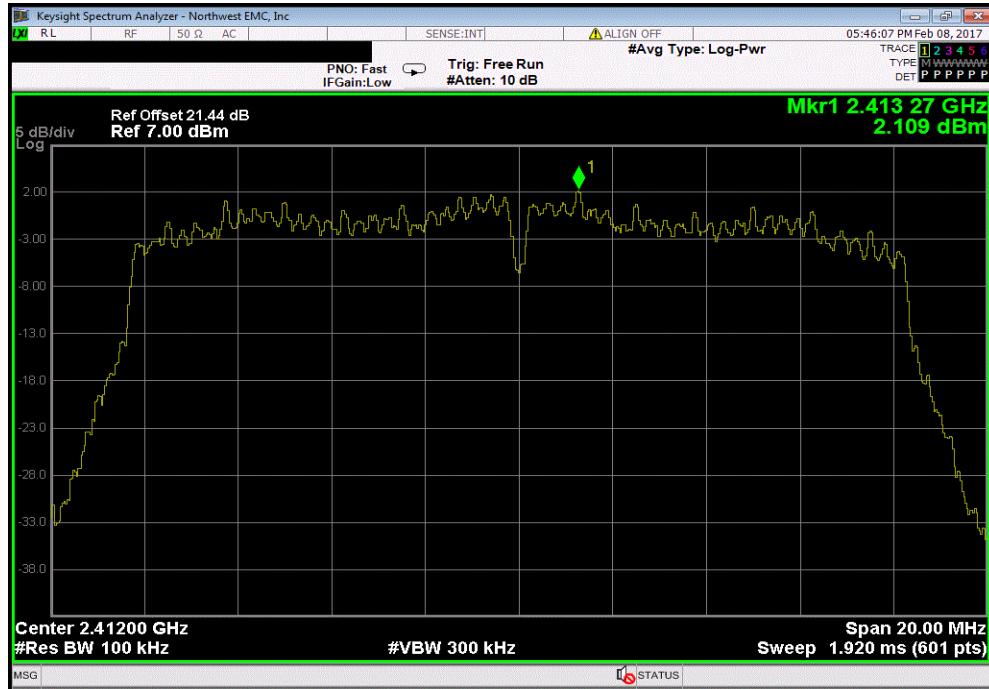


POWER SPECTRAL DENSITY

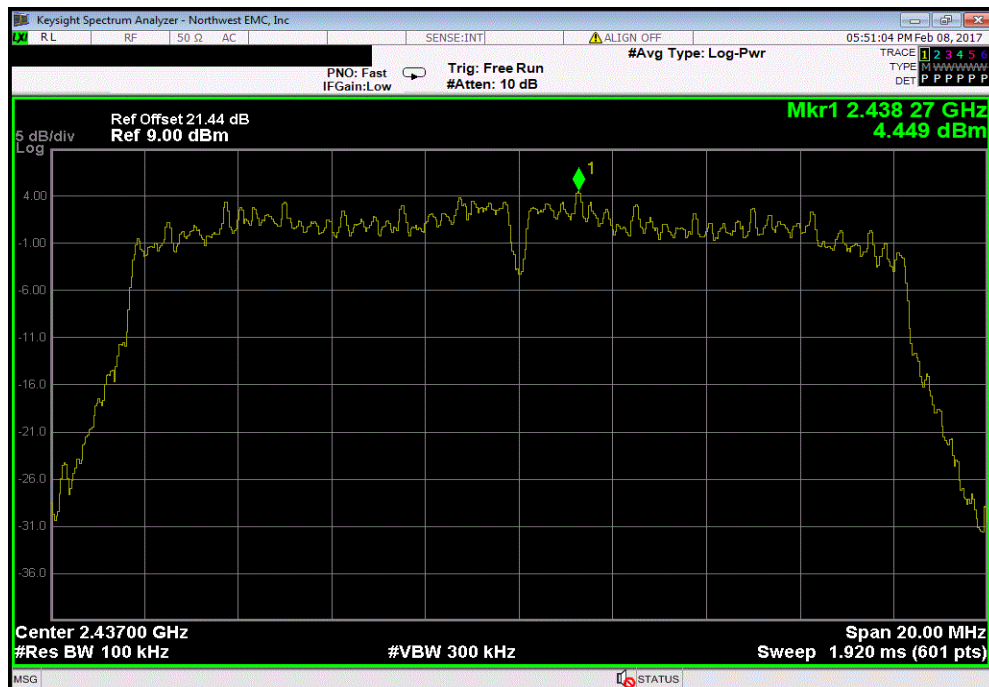


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.109	-15.2	-13.091	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.449	-15.2	-10.751	8	Pass	

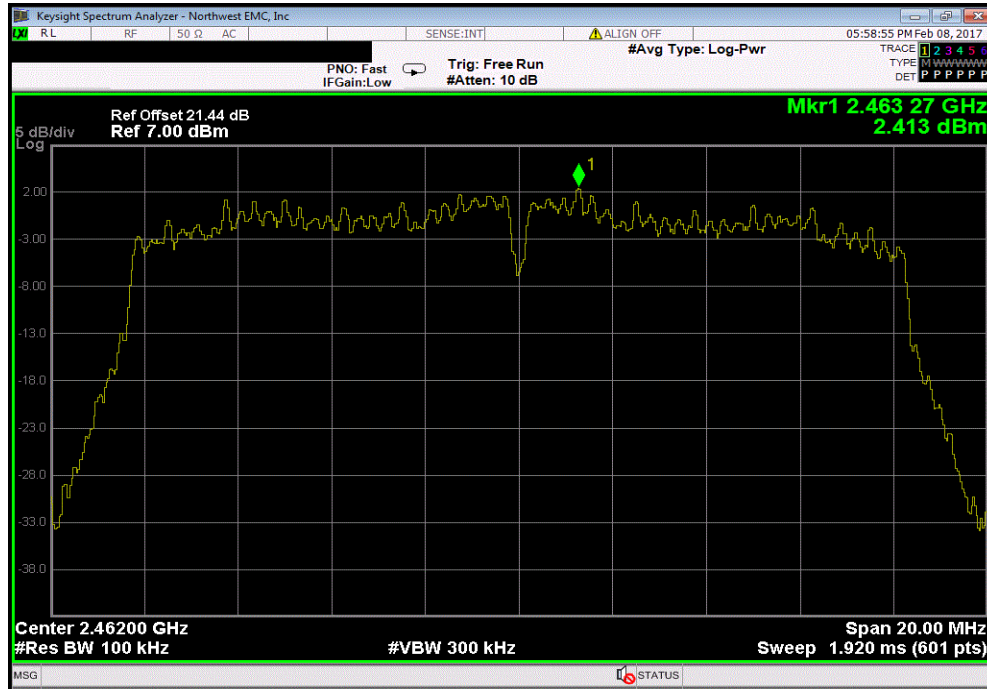


POWER SPECTRAL DENSITY

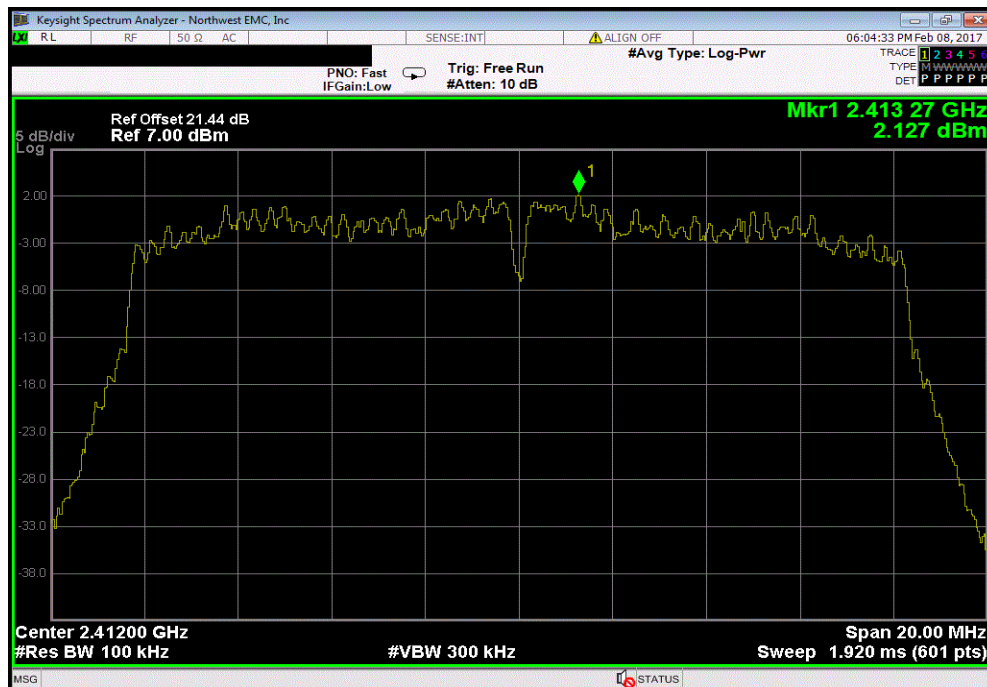


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.413	-15.2	-12.787	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.127	-15.2	-13.073	8	Pass	

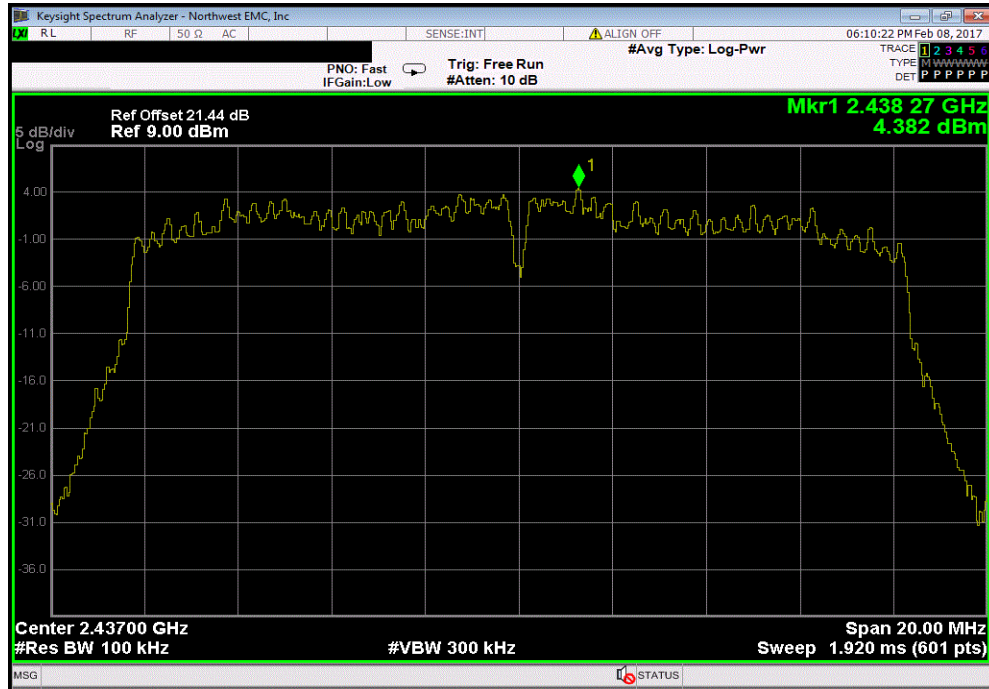


POWER SPECTRAL DENSITY

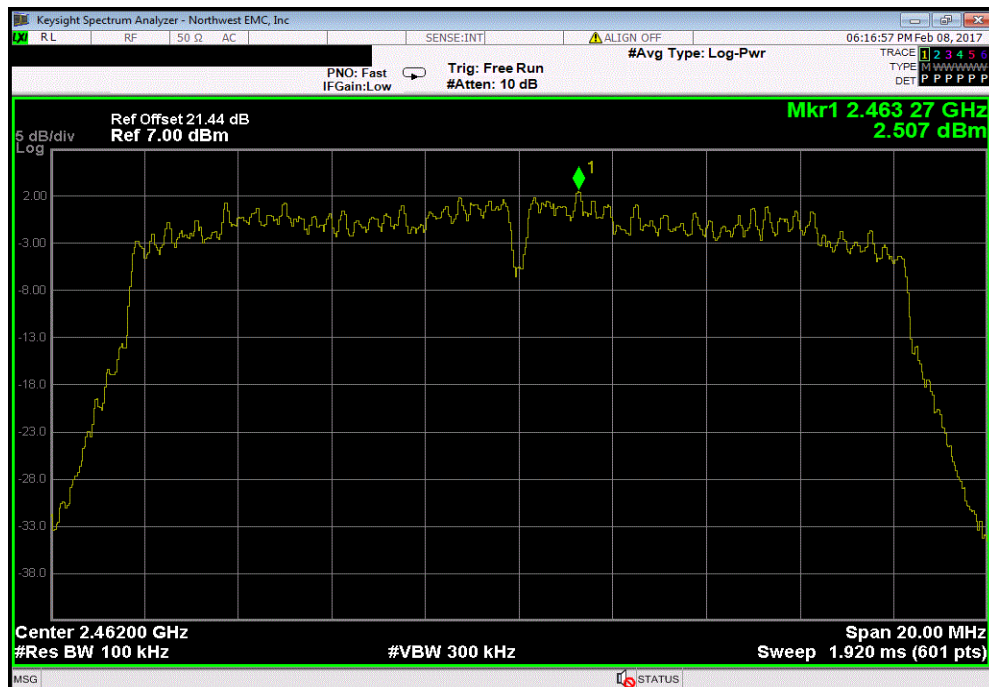


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.382	-15.2	-10.818	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.507	-15.2	-12.693	8	Pass	

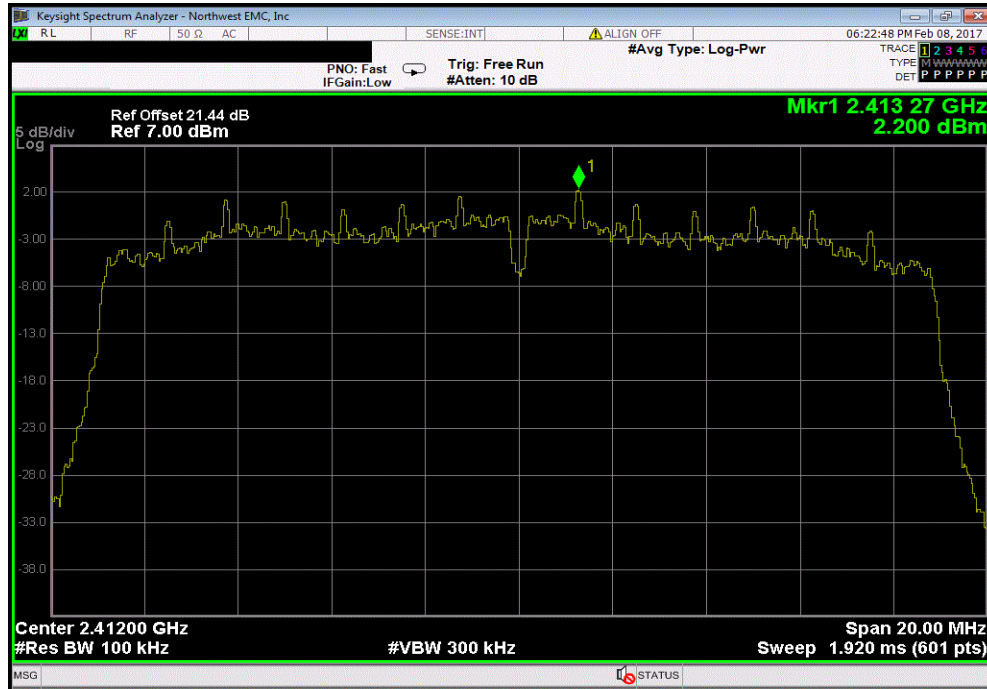


POWER SPECTRAL DENSITY

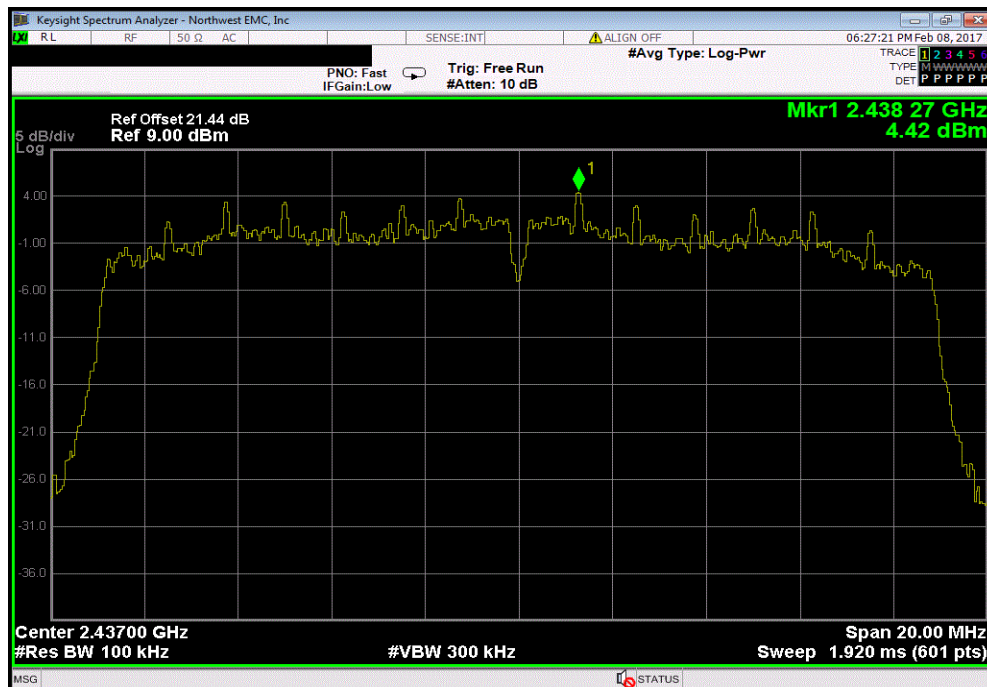


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Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.2	-15.2	-13	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.425	-15.2	-10.775	8	Pass	

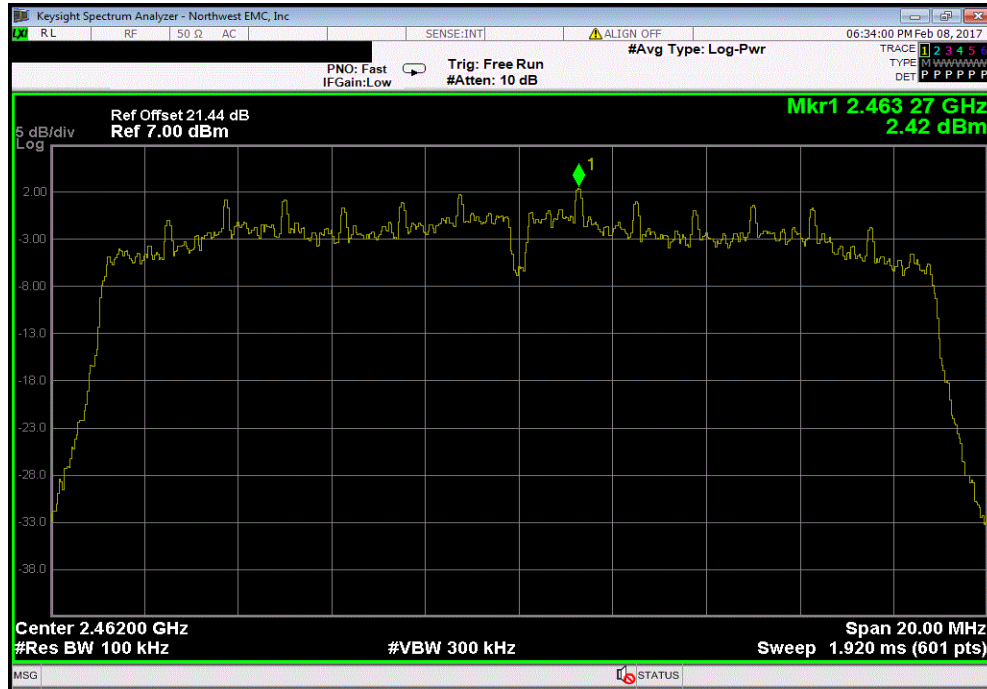


POWER SPECTRAL DENSITY

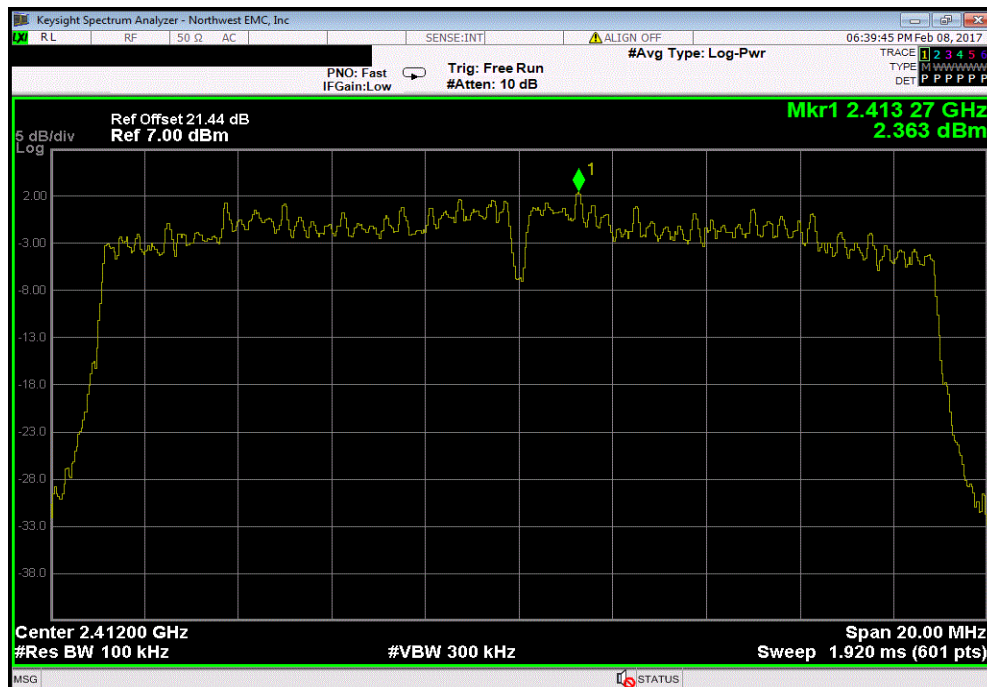


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.425	-15.2	-12.775	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.363	-15.2	-12.837	8	Pass	

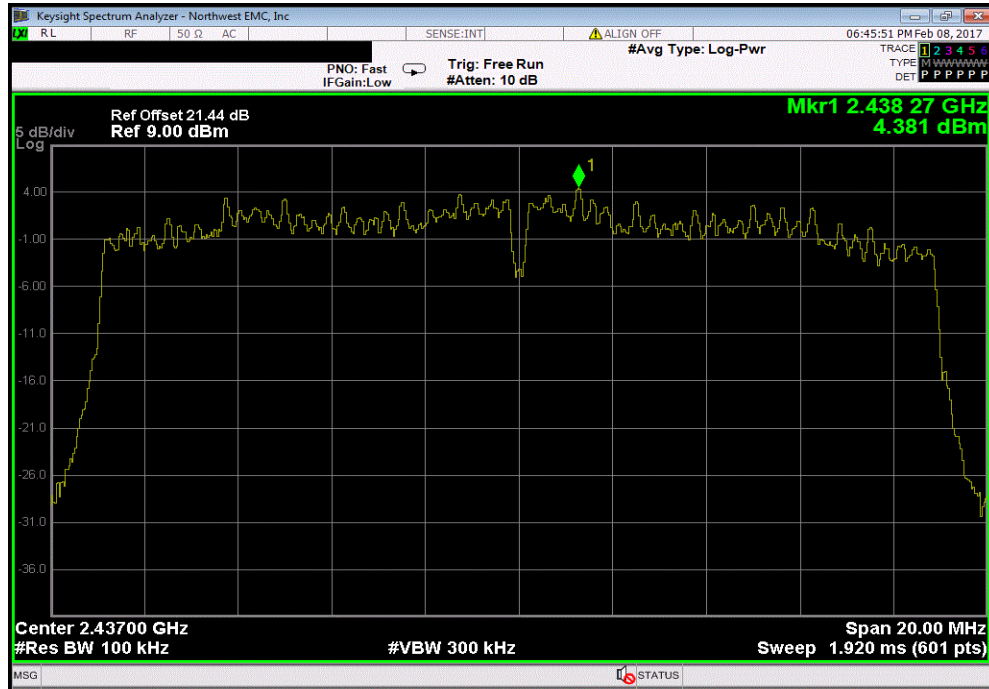


POWER SPECTRAL DENSITY

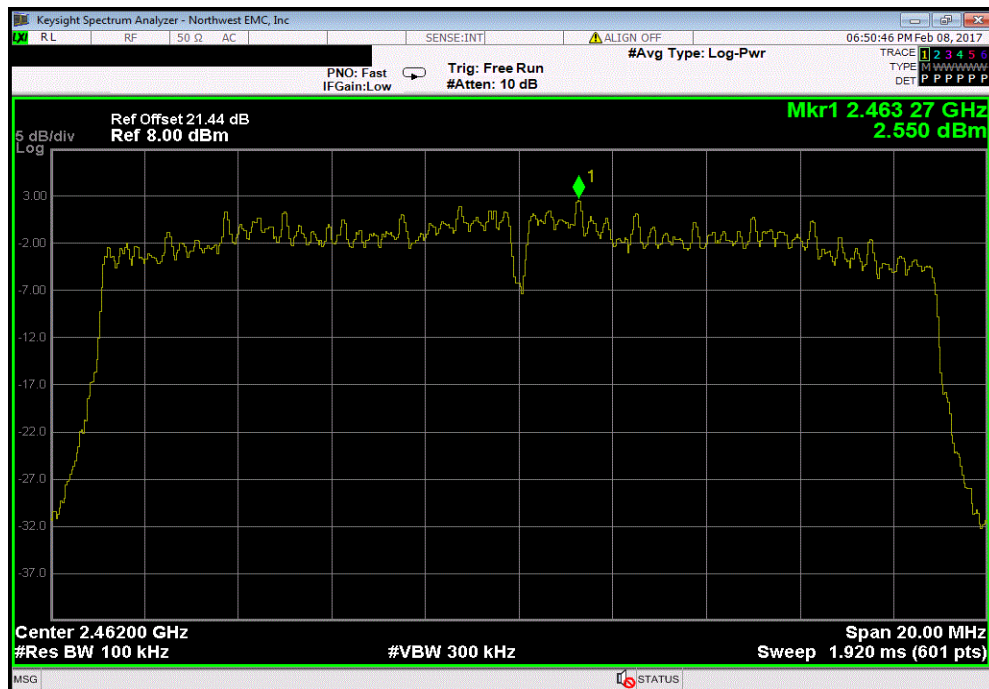


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	4.381	-15.2	-10.819	8	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
	Value	dBm/100kHz	Value	Limit	Results	
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	< dBm/3kHz		
	2.55	-15.2	-12.65	8	Pass	



BAND EDGE COMPLIANCE



XMIT 2017.01.26

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.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2/25/2016	2/25/2017
Attenuator	Fairview Microwave	SA4018-20	TQY	2/25/2016	2/25/2017
Cable	Fairview Microwave	SCK0963-60	TXF	11/18/2016	11/18/2017
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	3/15/2016	3/15/2017
Generator - Signal	Agilent	E4422B	TGS	3/27/2015	3/27/2018

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. 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 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.

BAND EDGE COMPLIANCE



EUT: RTH9580WF01

Serial Number: 0027301

Customer: Honeywell, Automation and Control Solutions

Attendees: Job Villafuerte

Project: None

Tested by: Jonathan Kiefer

Work Order: HNYW0203

Date: 02/08/17

Temperature: 22.8 °C

Humidity: 34.2% RH

Barometric Pres.: 1019 mbar

Job Site: TX09

TEST SPECIFICATIONS

FCC 15.247:2017

Test Method

ANSI C63.10:2013

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

Configuration #

1

Signature

Jonathan Kiefer

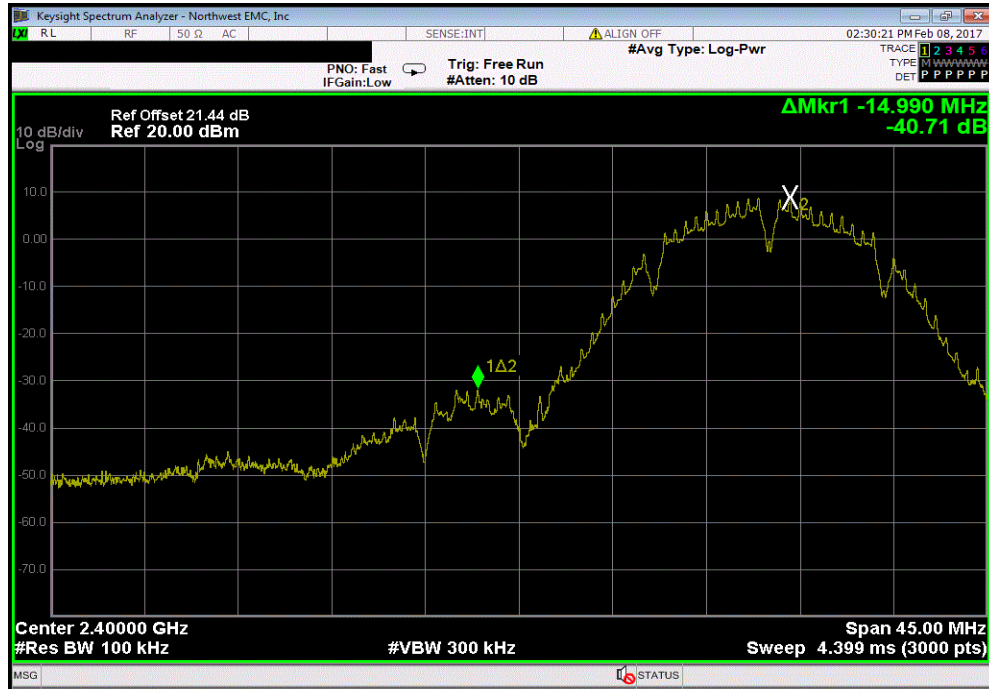
	Value (dBc)	Limit ≤ (dBc)	Result
Antenna A0			
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	-40.72	-20	Pass
High Channel 11, 2462 MHz	-57.93	-20	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	-42.05	-20	Pass
High Channel 11, 2462 MHz	-58.4	-20	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	-35.94	-20	Pass
High Channel 11, 2462 MHz	-45.28	-20	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	-34.72	-20	Pass
High Channel 11, 2462 MHz	-45.53	-20	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	-37.09	-20	Pass
High Channel 11, 2462 MHz	-46.11	-20	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	-36.49	-20	Pass
High Channel 11, 2462 MHz	-44.08	-20	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	-37.42	-20	Pass
High Channel 11, 2462 MHz	-43.04	-20	Pass
Antenna A1			
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	-40.56	-20	Pass
High Channel 11, 2462 MHz	-58.14	-20	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	-41.94	-20	Pass
High Channel 11, 2462 MHz	-59.2	-20	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	-33.07	-20	Pass
High Channel 11, 2462 MHz	-44.37	-20	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	-34.49	-20	Pass
High Channel 11, 2462 MHz	-45.97	-20	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	-39.05	-20	Pass
High Channel 11, 2462 MHz	-46.38	-20	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	-37.08	-20	Pass
High Channel 11, 2462 MHz	-42.39	-20	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	-38.59	-20	Pass
High Channel 11, 2462 MHz	-45.29	-20	Pass

BAND EDGE COMPLIANCE

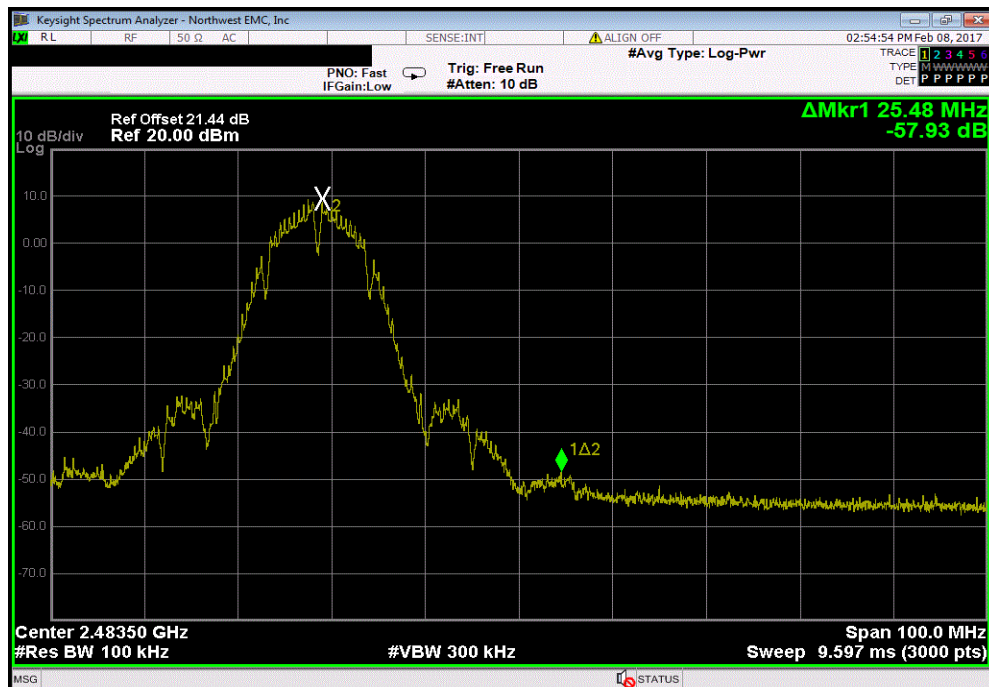


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-40.72	-20	Pass			



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-57.93	-20	Pass			

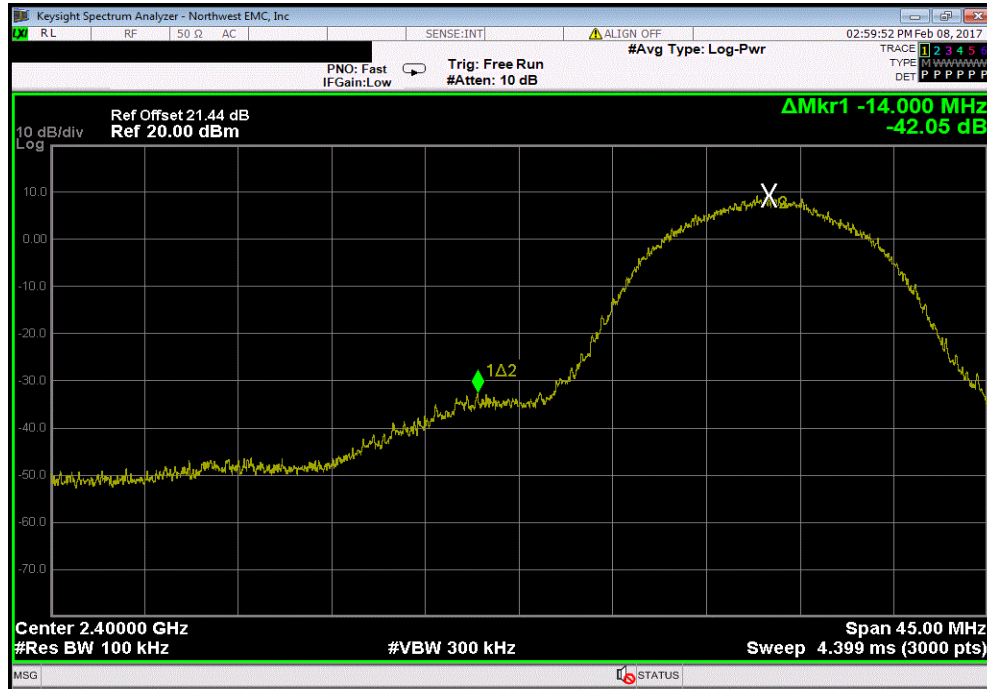


BAND EDGE COMPLIANCE

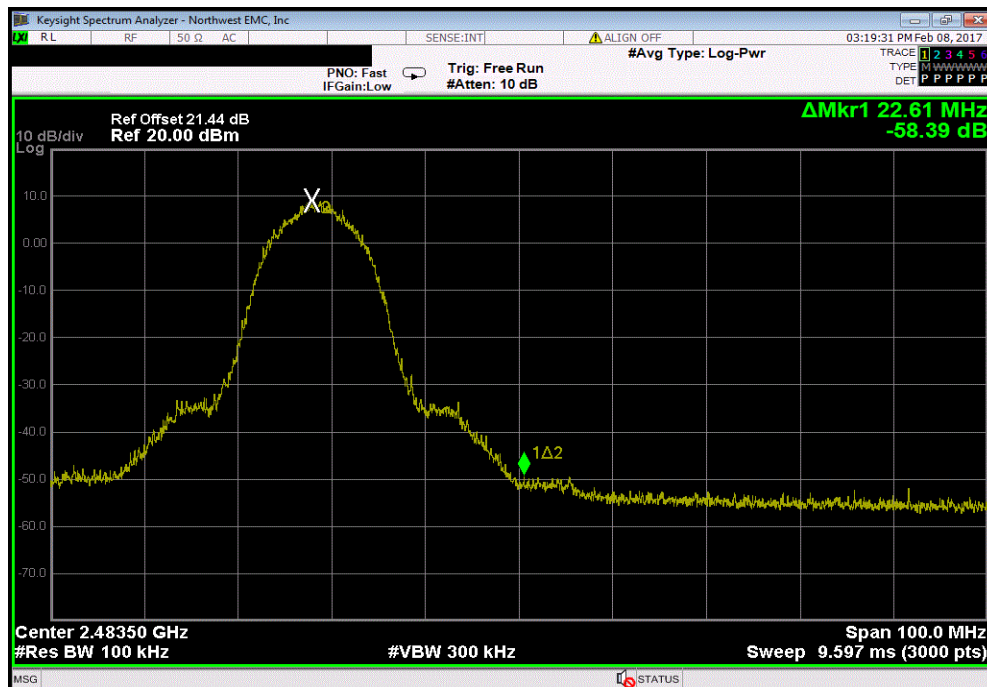


NweTx 2016.09.14.2 XMI 2017.01.26

Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-42.05	-20	Pass



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-58.4	-20	Pass

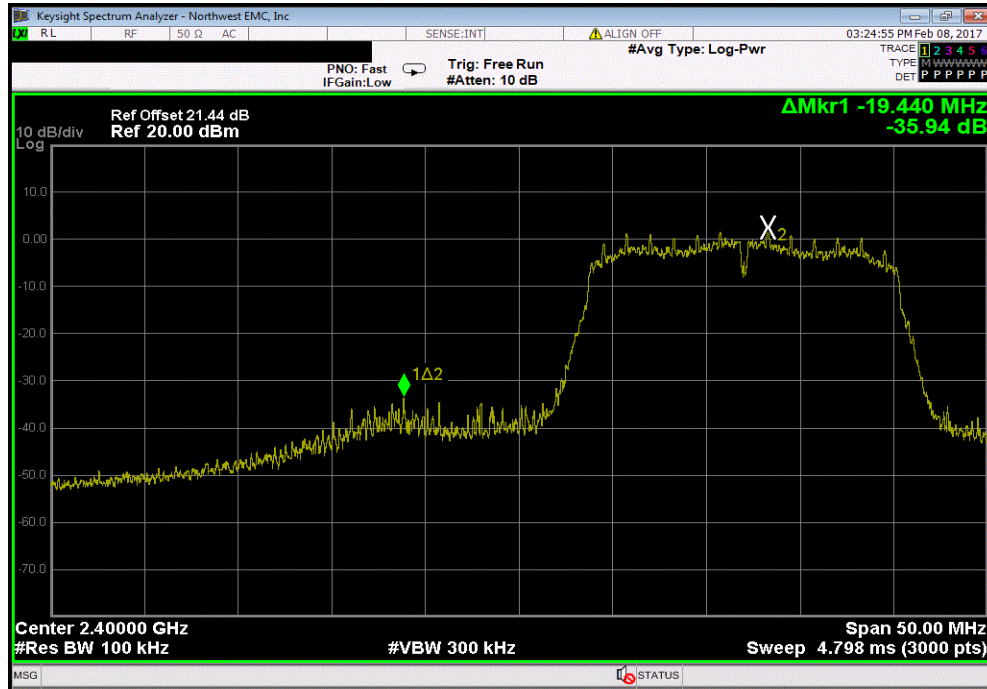


BAND EDGE COMPLIANCE

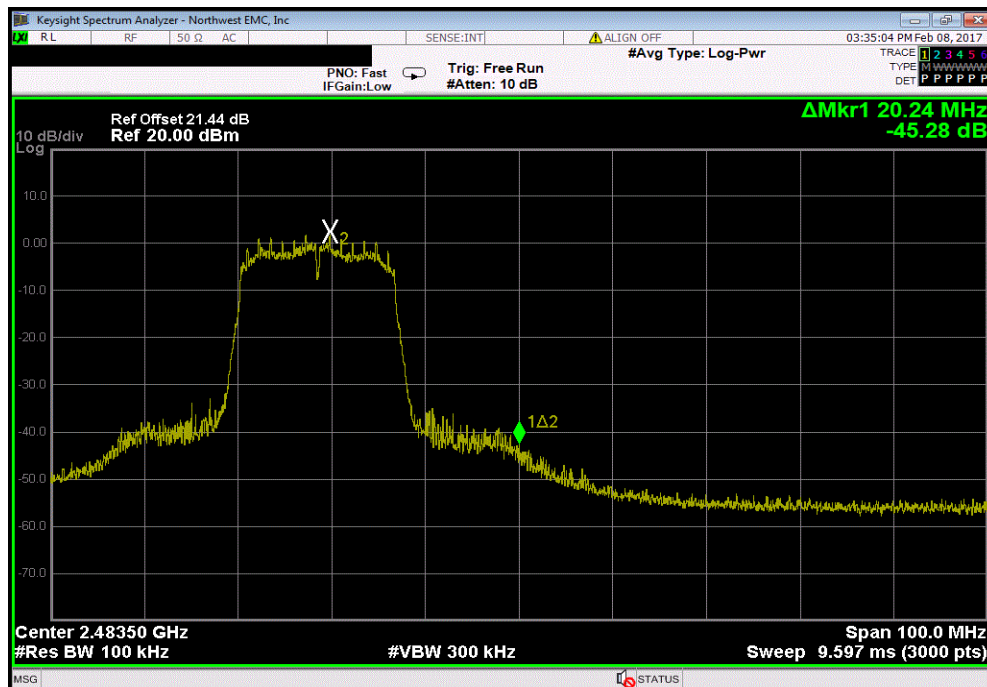


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-35.94	-20	Pass			



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-45.28	-20	Pass			



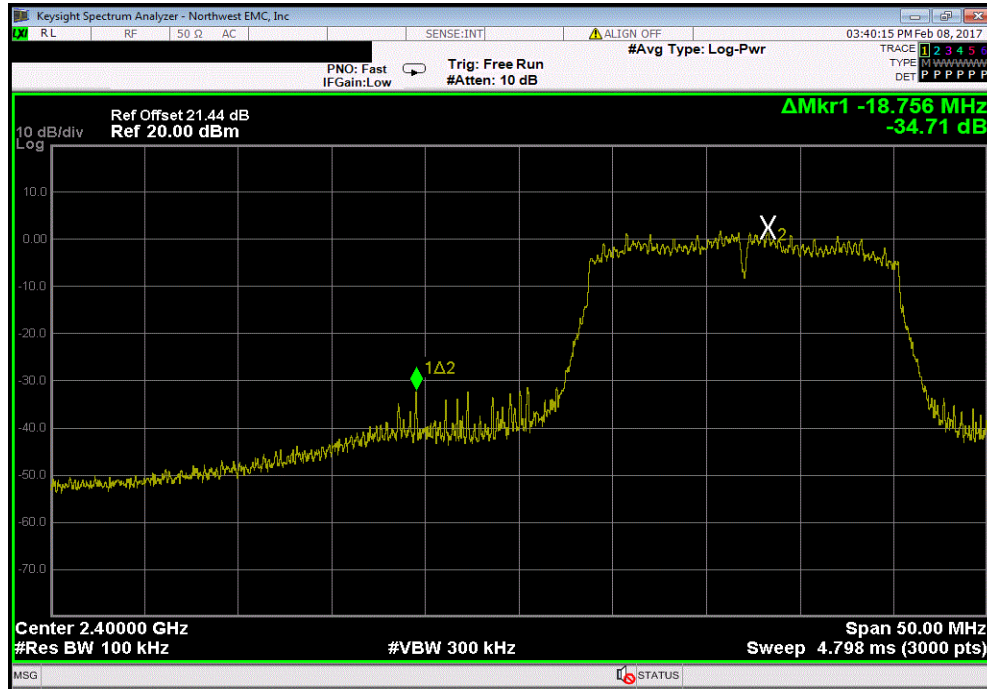
BAND EDGE COMPLIANCE



NweTx 2016.09.14.2 XMI 2017.01.26

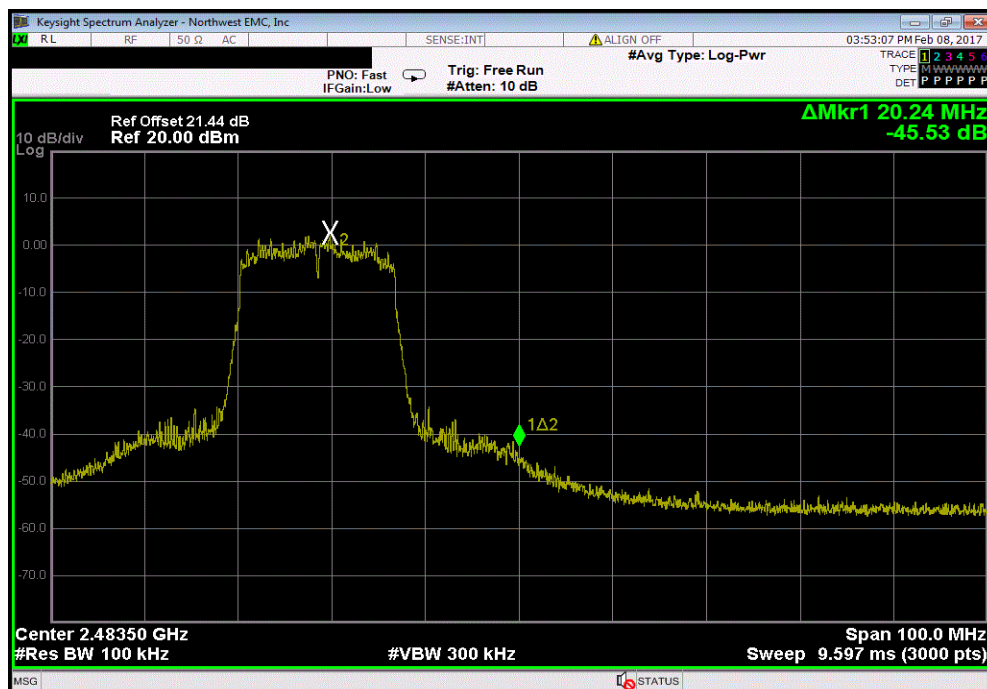
Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

	Value (dBc)	Limit ≤ (dBc)	Result
	-34.72	-20	Pass



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

	Value (dBc)	Limit ≤ (dBc)	Result
	-45.53	-20	Pass

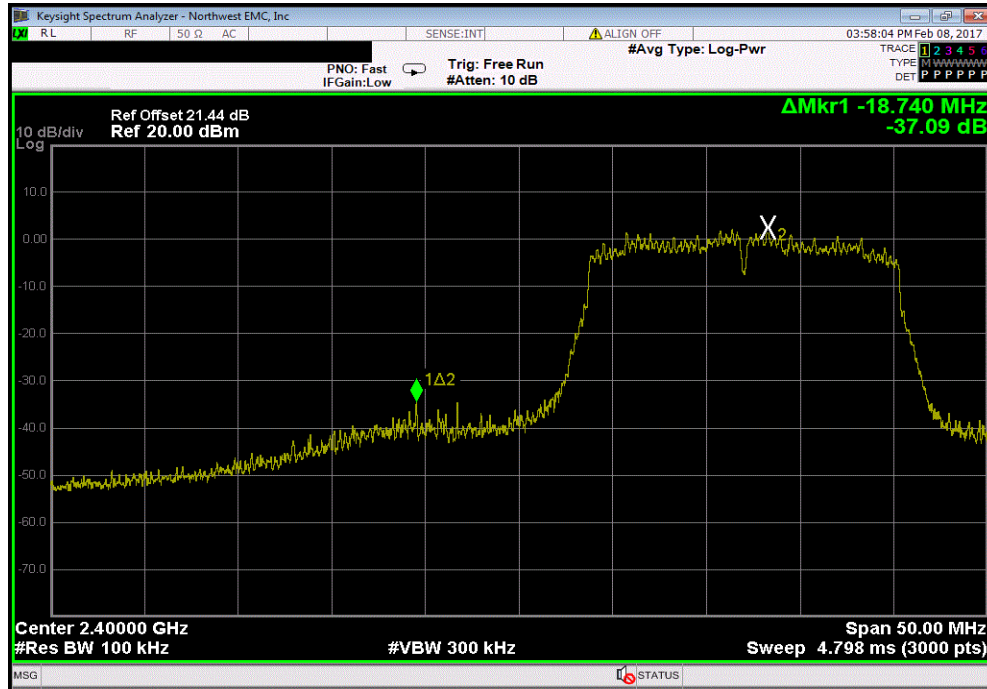


BAND EDGE COMPLIANCE

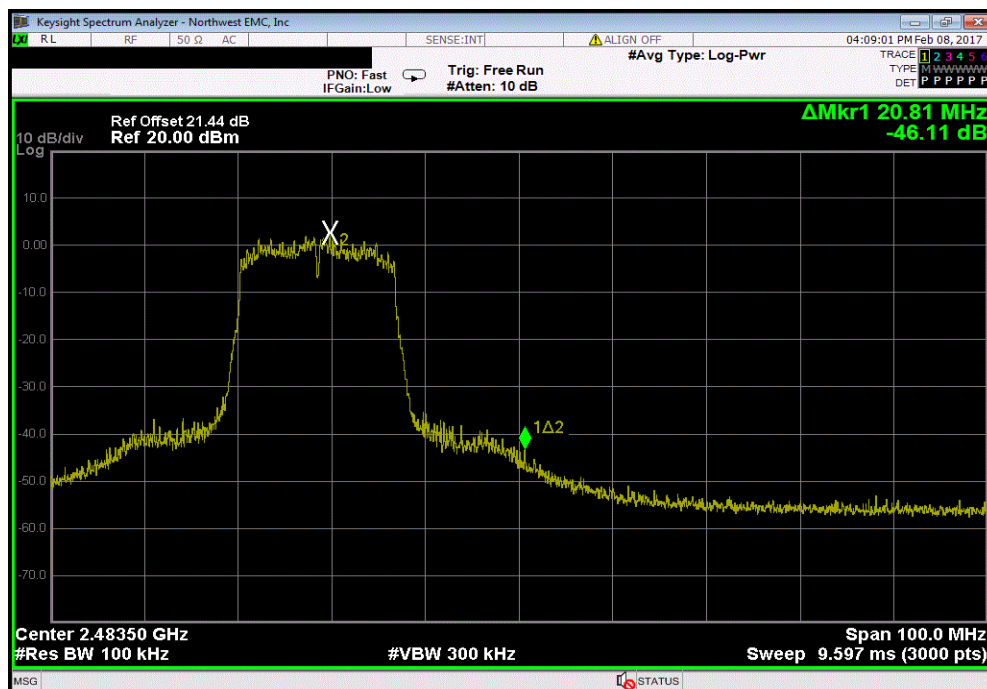


NweTx 2016.09.14.2 XMI 2017.01.26

Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-37.09	-20	Pass			



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-46.11	-20	Pass			

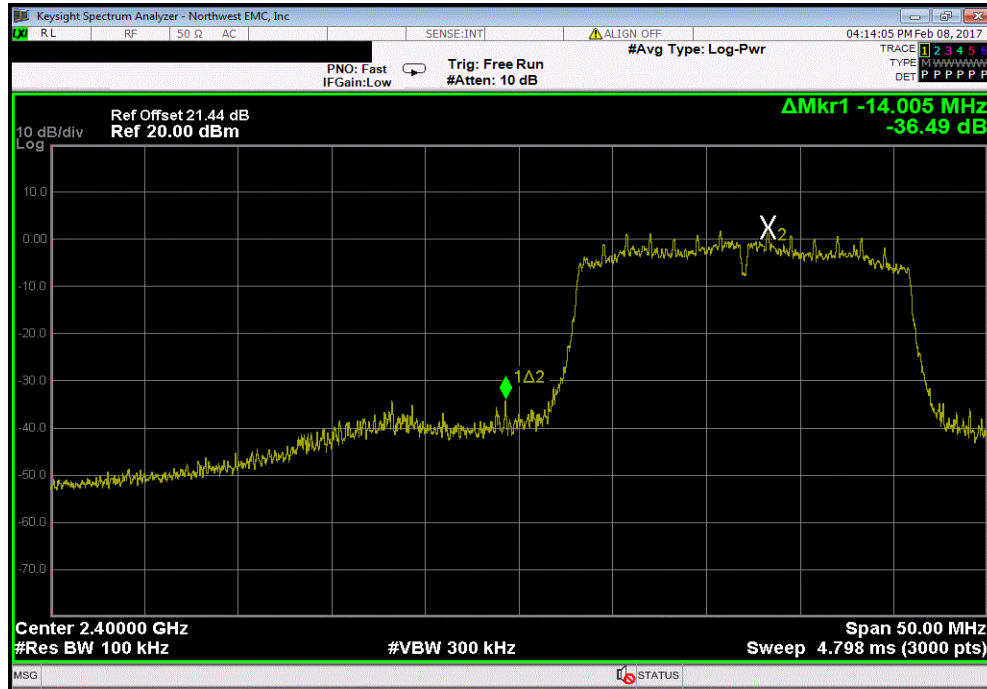


BAND EDGE COMPLIANCE

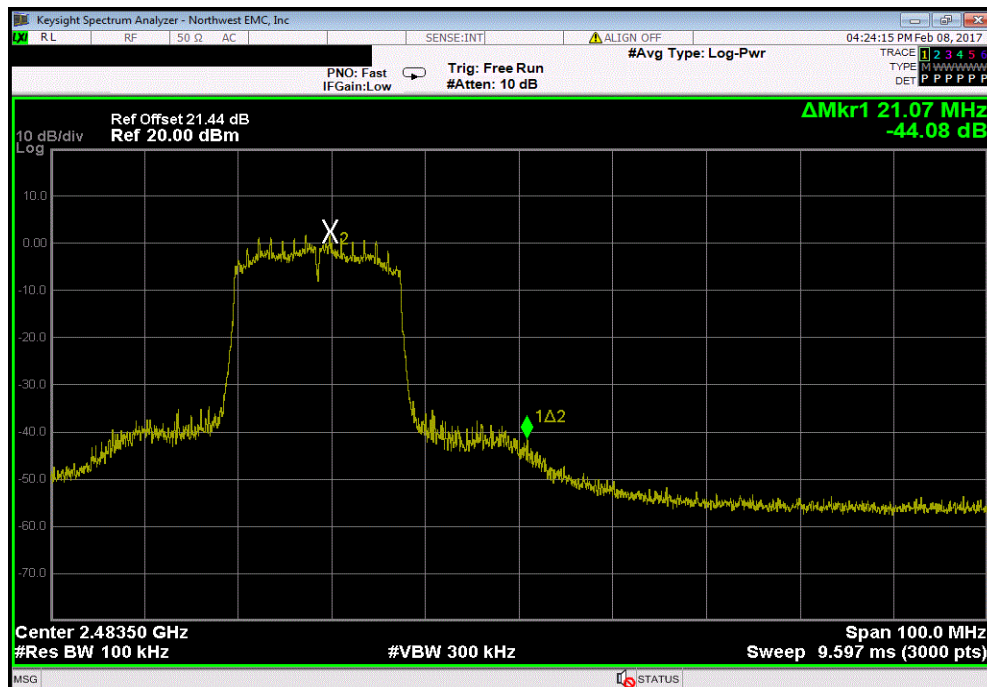


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-36.49	-20	Pass



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-44.08	-20	Pass



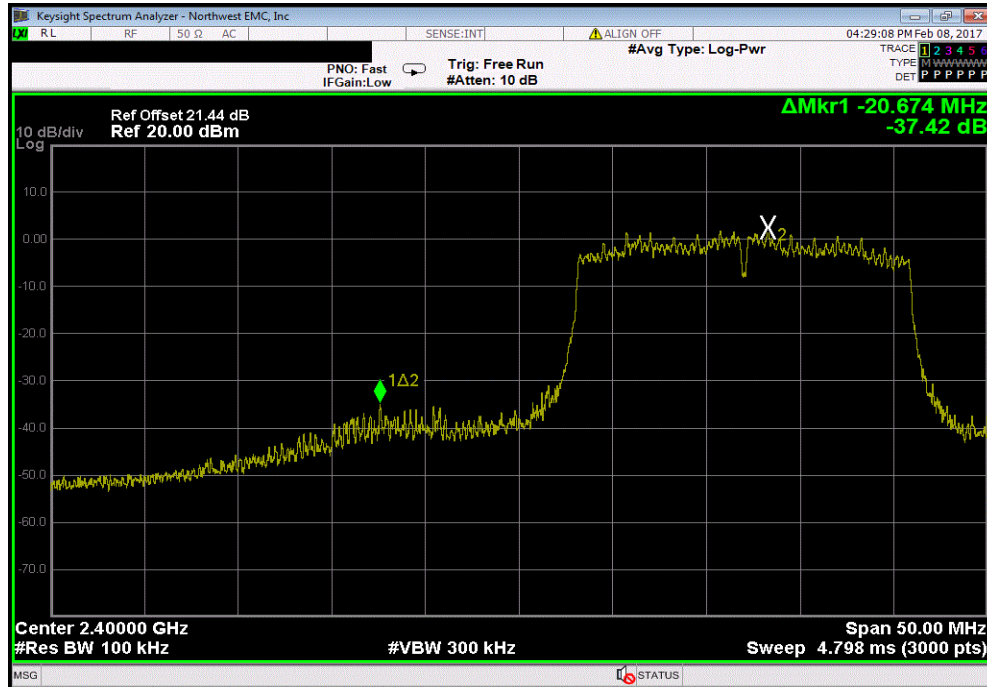
BAND EDGE COMPLIANCE



NweTx 2016.09.14.2 XMI 2017.01.26

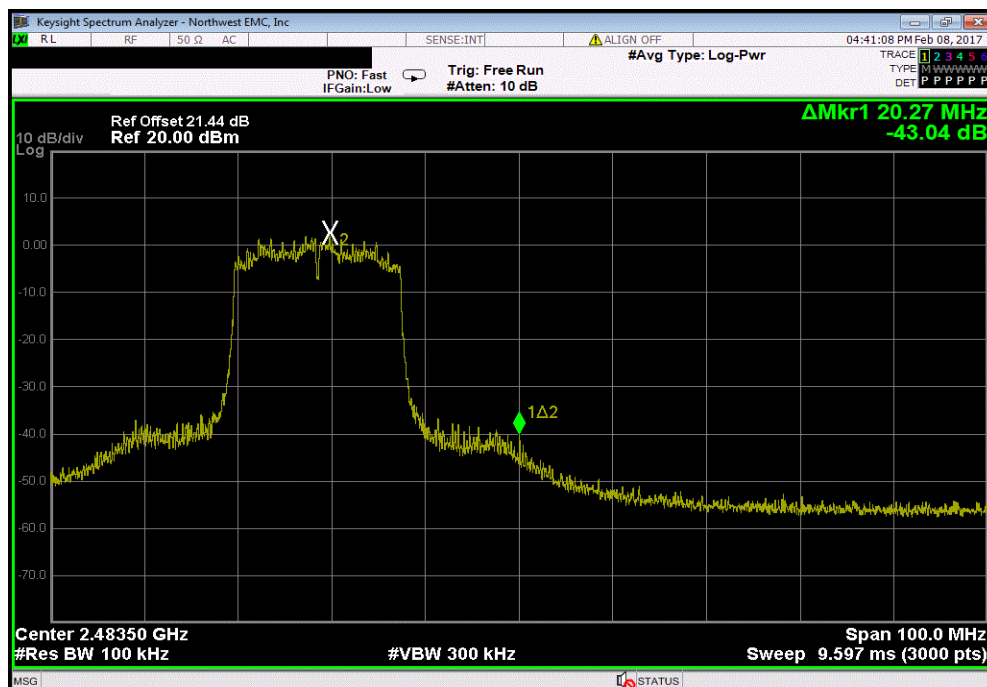
Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

	Value (dBc)	Limit ≤ (dBc)	Result
	-37.42	-20	Pass



Antenna A0, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

	Value (dBc)	Limit ≤ (dBc)	Result
	-43.04	-20	Pass

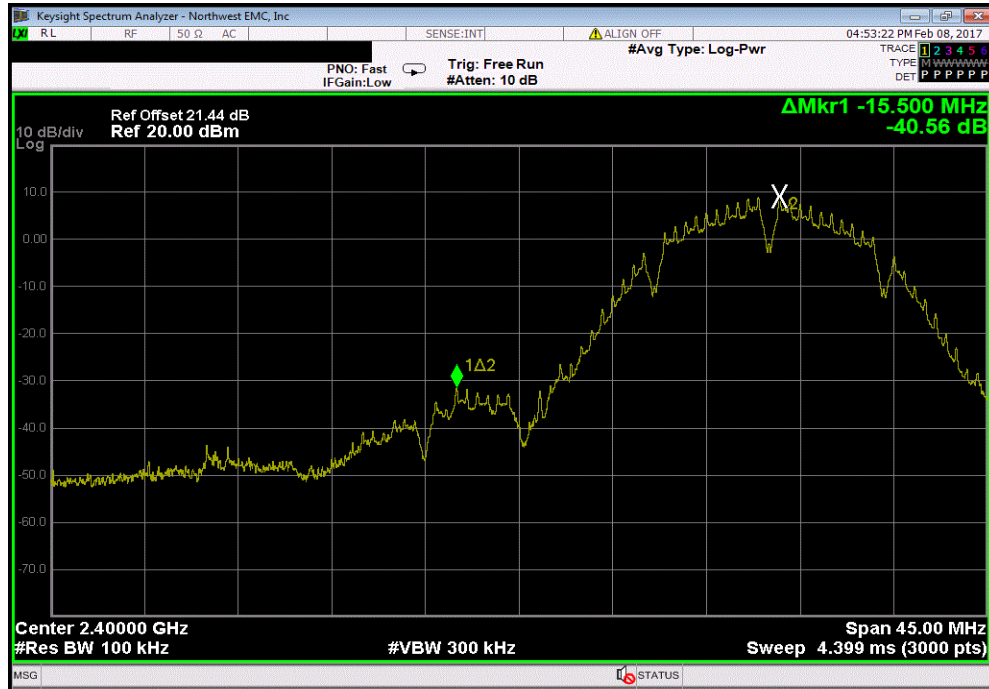


BAND EDGE COMPLIANCE

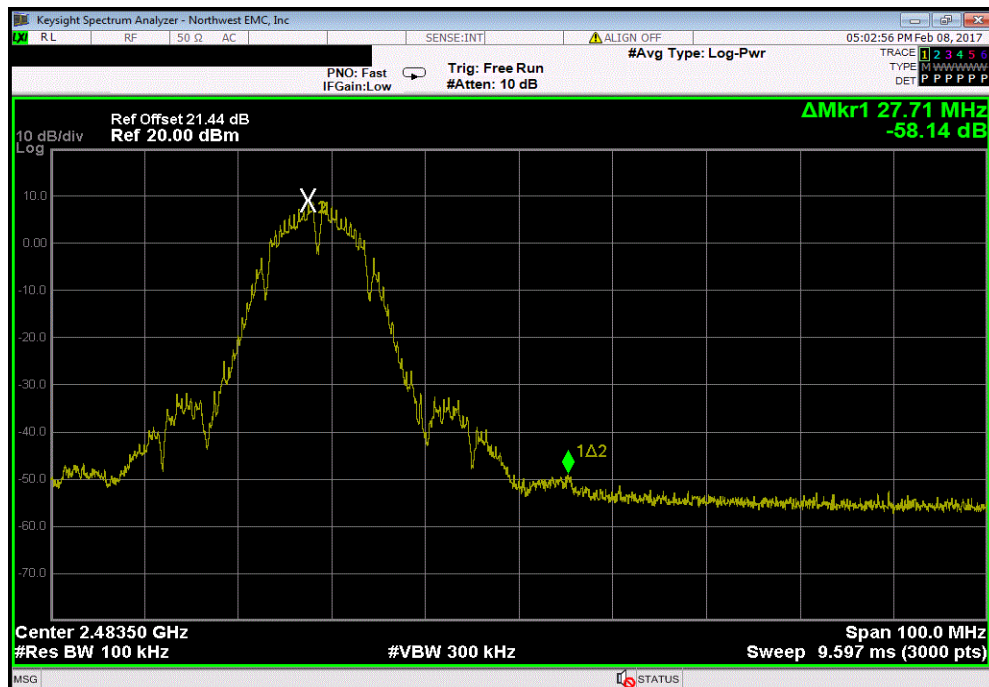


NwTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-40.56	-20	Pass			



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Value	Limit	Result			
	(dBc)	≤ (dBc)				
	-58.14	-20	Pass			

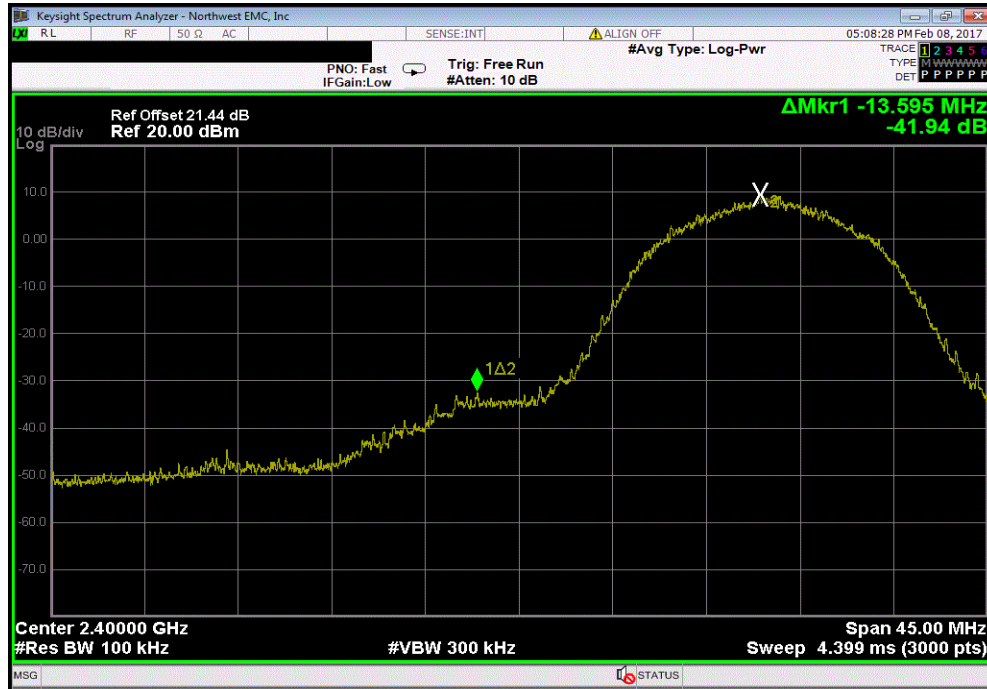


BAND EDGE COMPLIANCE

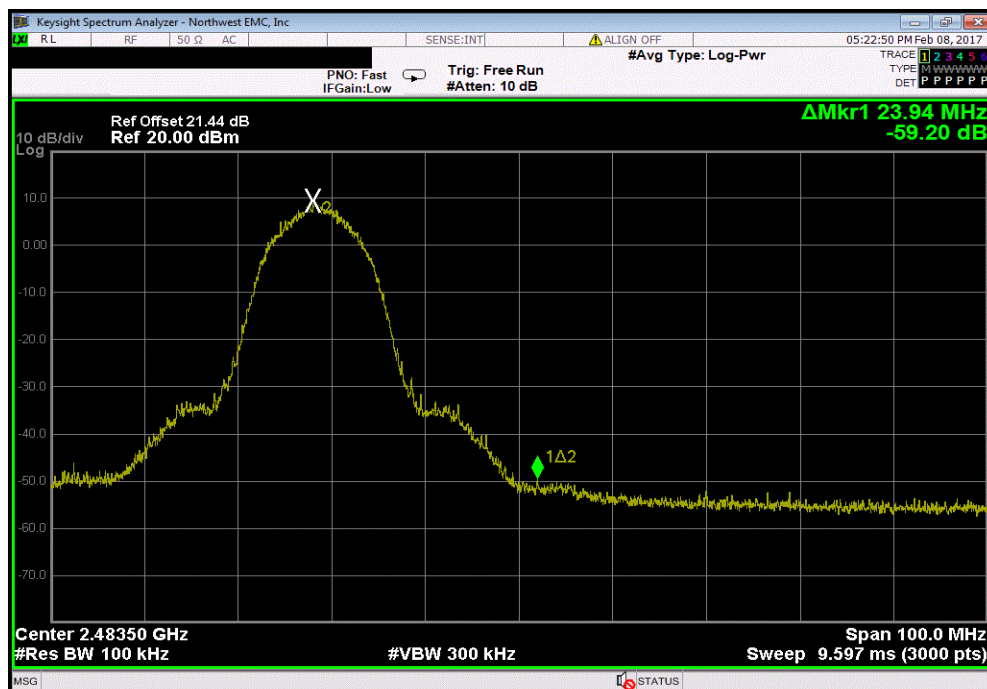


NweTx 2016.09.14.2 XMI 2017.01.26

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-41.94	-20	Pass



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-59.2	-20	Pass

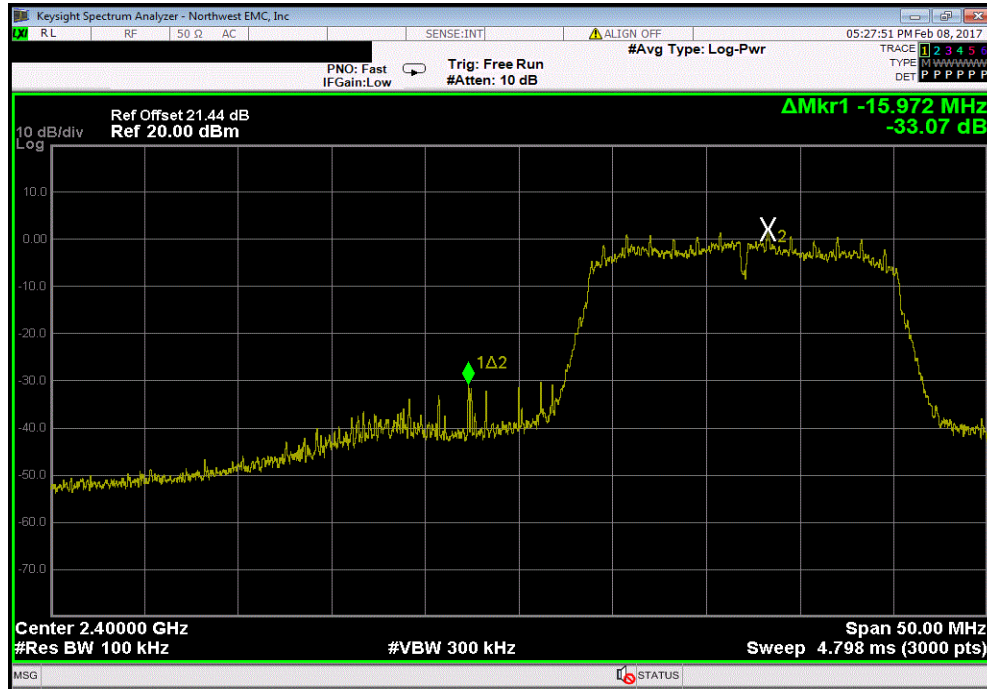


BAND EDGE COMPLIANCE

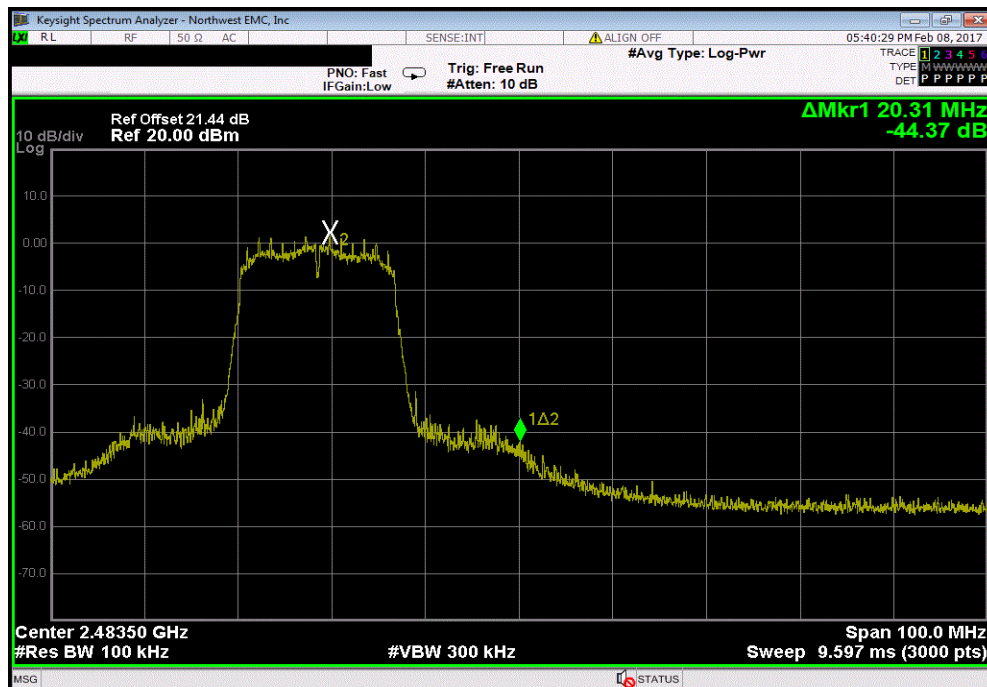


NweTx 2016.09.14.2 XMI 2017.01.28

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz							
				Value	Limit		
				(dBc)	≤ (dBc)	Result	
				-33.07	-20	Pass	



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-44.37	-20	Pass

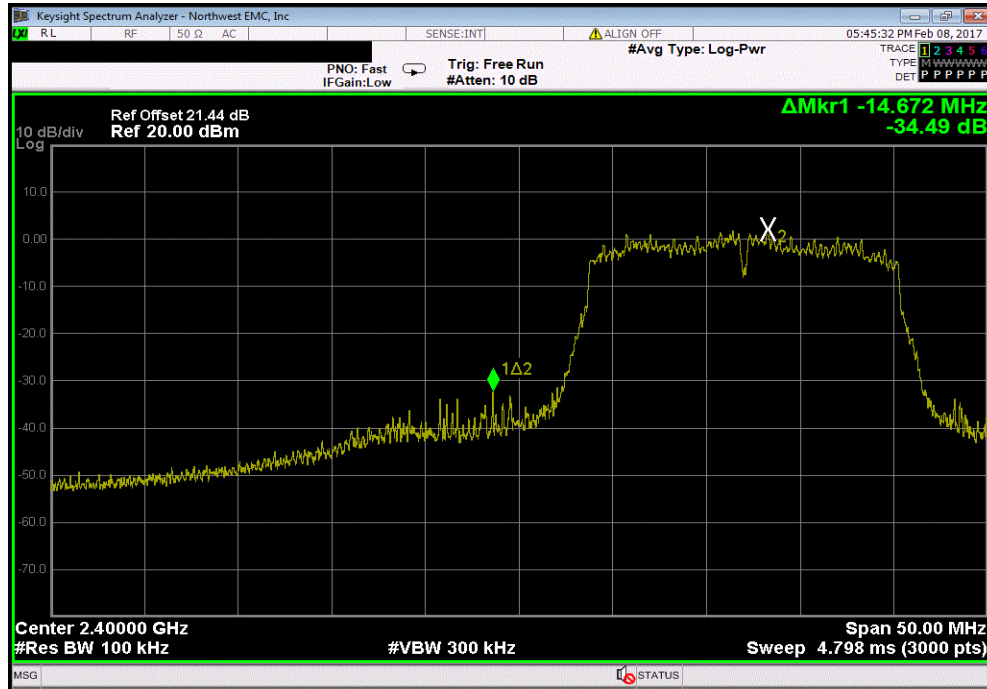


BAND EDGE COMPLIANCE

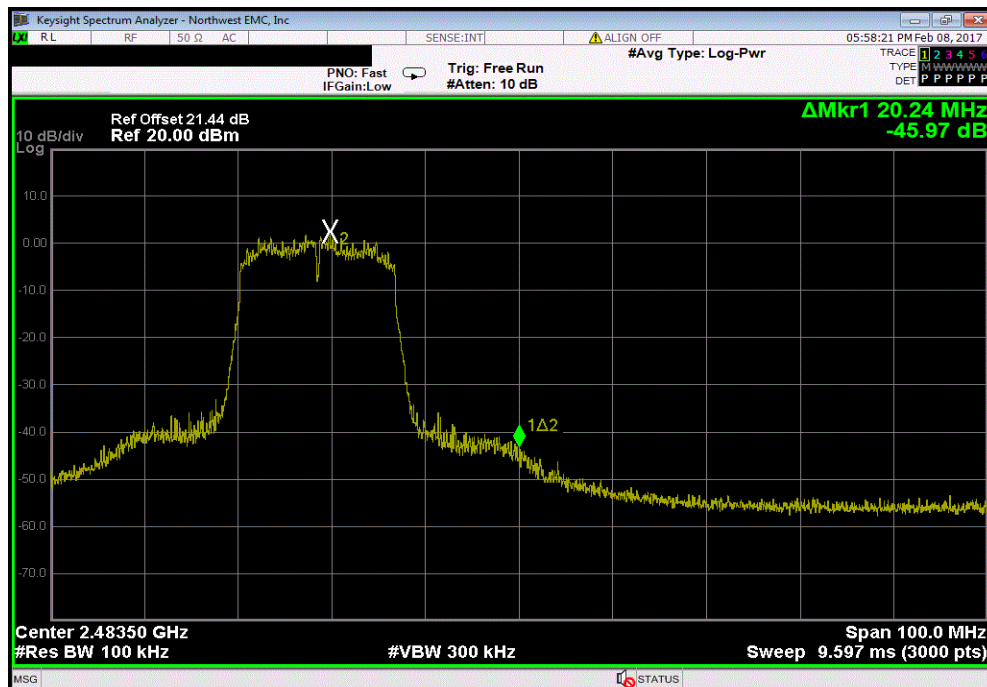


NweTx 2016.09.14.2 XMI 2017.01.26

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-34.49	-20	Pass			



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-45.97	-20	Pass			

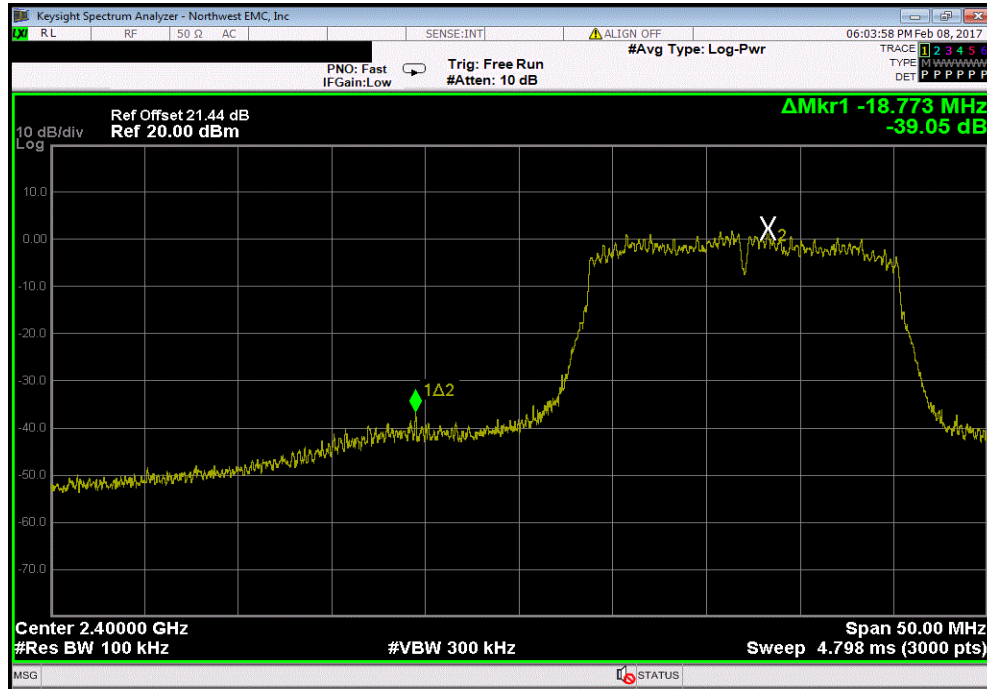


BAND EDGE COMPLIANCE

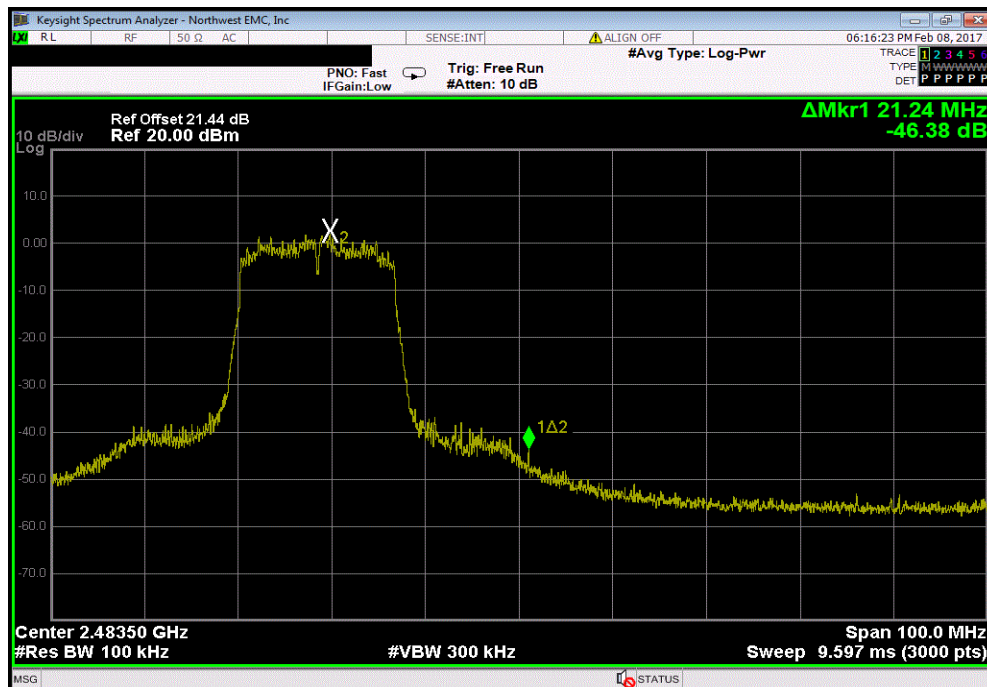


NweTx 2016.09.14.2 XMI 2017.01.26

Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-39.05	-20	Pass			



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
	Value (dBc)	Limit ≤ (dBc)	Result			
	-46.38	-20	Pass			



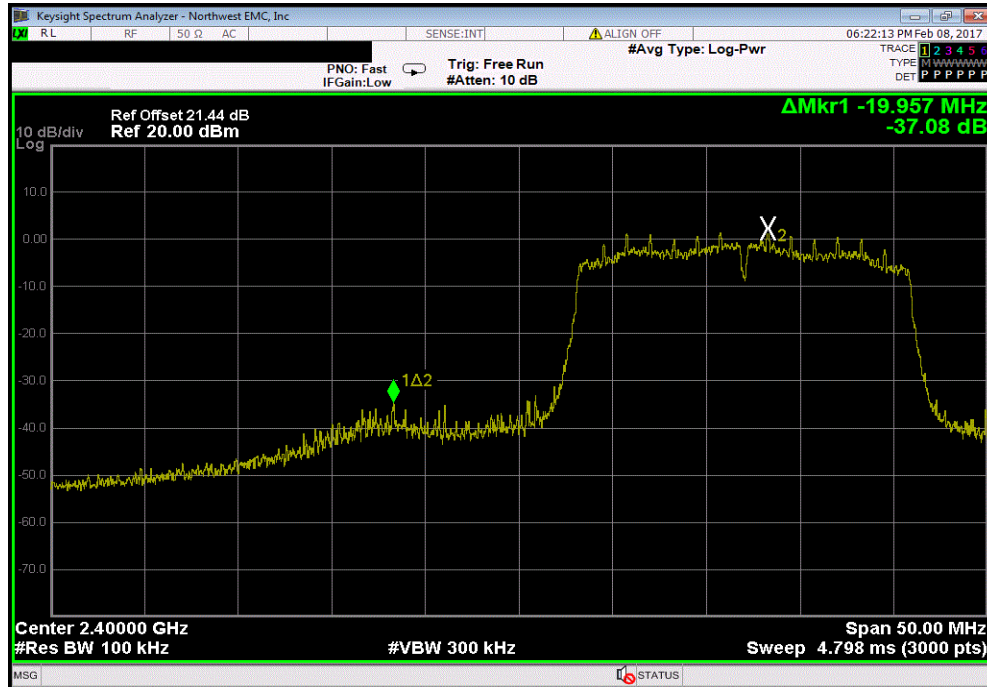
BAND EDGE COMPLIANCE



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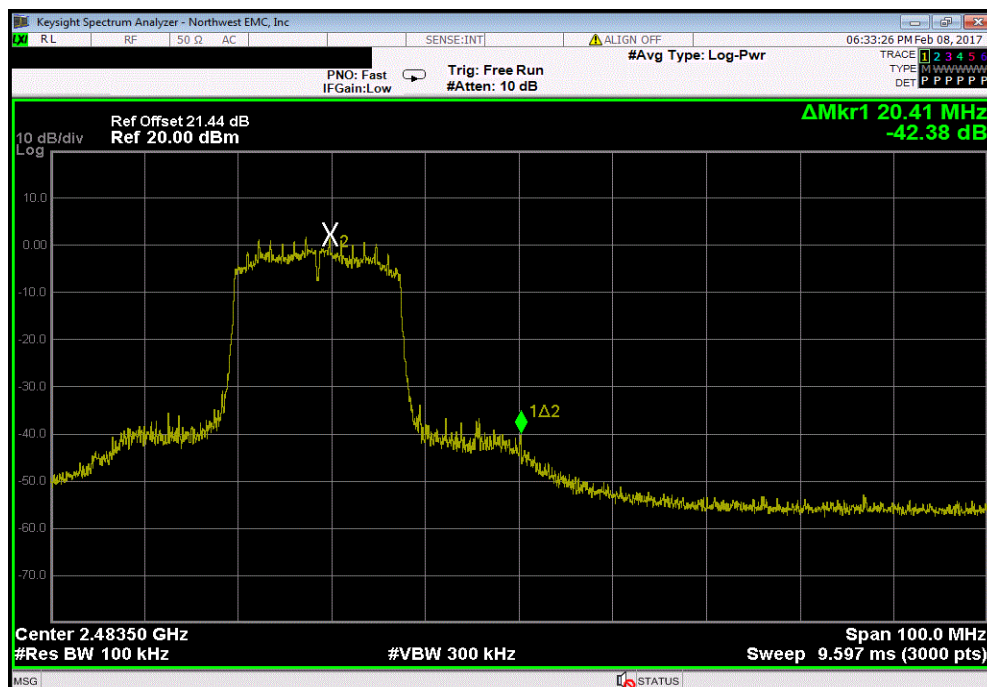
Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-37.08	-20	Pass



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-42.39	-20	Pass



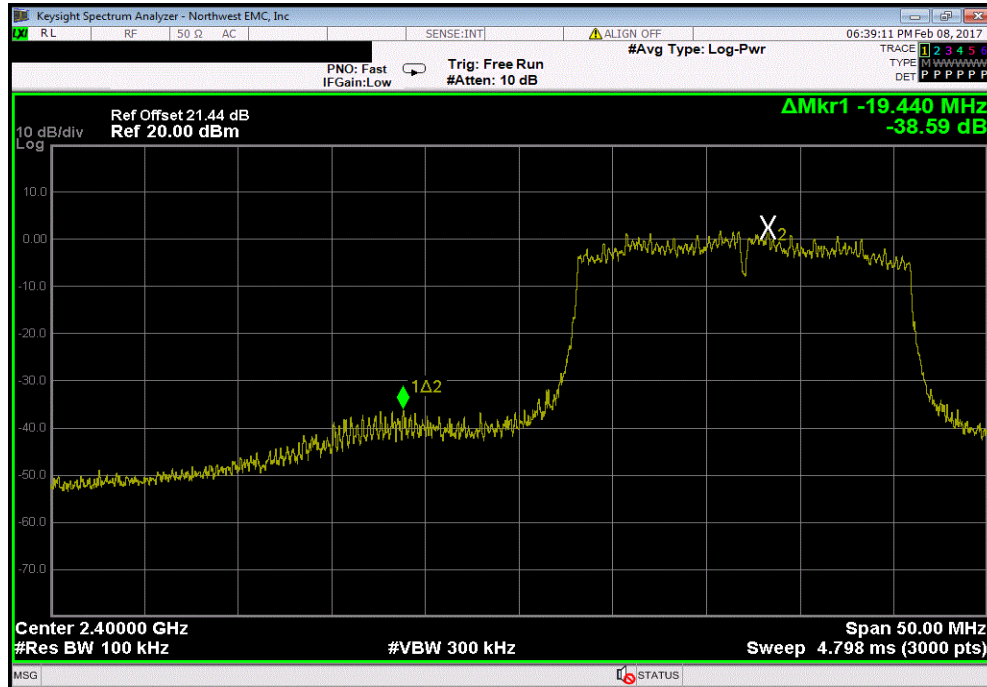
BAND EDGE COMPLIANCE



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Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-38.59	-20	Pass



Antenna A1, 2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-45.29	-20	Pass

