TEST REPORT ADDENDUM – CONDUCTED

FROM



Test of: Aruba Networks, Inc. APIN0334, APIN0335

to

To: FCC CFR 47 Part 15 Subpart E 15.407 (non-DFS)

Test Report Serial No.: ARUB196-U7_Conducted Rev A

Issue Date: 5th May 2016

Master Document Number	Addendum Reports
ARUB196-U7_Master	ARUB196-U7_Conducted
	ARUB196-U7_Radiated
	ARUB196-U26 (FCC Part 15B & ICES-003)

Table of Contents

1. MEASUREMENT AND PRESENTATION OF TEST DATA 3
2. TEST SUMMARY 4
3. TEST RESULTS 5
3.1. Peak Transmit Power 5
3.2. 26 dB & 99% Bandwidth 17
3.3. Power Spectral Density 28
APPENDIX A - GRAPHICAL IMAGES 40
A.1. 26 dB & 99% Bandwidth 41
A.2. Power Spectral Density 137

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1. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Testing and report automation was performed by MiTest. MiTest is an automated test system developed by MiCOM Labs. MiTest is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for regulatory compliance.



The MiCOM Labs "MiTest" Automated Test System" (Patent Pending)

2. TEST SUMMARY

List of Measurements

Test Header	Result	Comments
Conducted Testing		
(a) Peak Transmit Power	Complies	View Data
(a) 26 dB & 99% Bandwidth	Complies	View Data
(a)(5) Power Spectral Density	Complies	View Data

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3. TEST RESULTS

3.1. Peak Transmit Power

Conducted Test Conditions for Maximum Conducted Output Power			
Standard:	FCC CFR 47:15.407	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	Maximum Conducted Output Power	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.407 (a)	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Maximum Conducted Output Power Measurement
Method PM (Measurement using an RF average power meter). KDB 789033 defines a methodology using an average wideband power meter. Measurements were made while the EUT was operating in a continuous transmission mode (100% duty cycle) at the appropriate center frequency. All operational modes and frequency bands were measured independently and the resultant calculated. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported separately. A summation (Σ) of each antenna port output power is provided which includes any offset due to Duty Cycle Correction Factor (DCCF). Testing was performed under ambient conditions at nominal voltage.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.
Supporting Information
Calculated Power = A + G + Y+ 10 log (1/x) dBm

A = Total Power [10*Log10 ($10^{a/10}$ + $10^{b/10}$ + $10^{c/10}$ + $10^{d/10}$)]
G = Antenna Gain
Y = Beamforming Gain
x = Duty Cycle (average power measurements only)

Limits Maximum Conducted Output Power

Operating Frequency Band 5150-5250 MHz

15. 407 (a)(1)
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

15. 407 (a)(2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Operating Frequency Band 5725 – 5850 MHz

15. 407 (a)(3)
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Power Setting V's Output Power

The power settings for the following operational modes V's frequency matrix takes into account conducted, radiated and band-edge testing. The lowest power level found for each of these parametrs was used to determine the maximum conducted output power.

Operational Mode ac80 + ac80

For 80 + 80 operational modes in non-DFS bands the APIN0334 and APIN0335 dedicates two antenna ports to each 80 MHz operation. For non-DFS bands there are two antenna ports in the 5150 – 5250 MHz coupled with two antenna ports in the 5725 – 5850 MHz band. As these are two different frequency bands the power is not aggregated.

As the 5150 – 5250 and 5725 – 5850 MHz band operation (non-DFS) 160 MHz operational mode is not available.

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Equipment Configuration for Peak Transmit Power

Variant:	802.11a	**Antenna Model:**	Integral Metal Sheet
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	97.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.13 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5180.0	19.01	17.60	18.52	18.63	24.49	No Requirement	28.80	-4.31	19.00
5200.0	20.57	19.70	20.22	20.69	26.33	No Requirement	28.80	-2.47	21.00
5240.0	21.19	20.57	21.16	21.95	27.27	No Requirement	28.80	-1.53	21.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power

Variant:	802.11ac-80	**Antenna Model:**	Integral Metal Sheet
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	95.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.22 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5210.0	14.19	13.55	14.03	14.70	20.16	No Requirement	28.80	-8.64	14.50

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-80+80	**Antenna Model:**	Integral Metal Sheet
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	95.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.22 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	c	b	d	Σ Port(s) dBm	MHz	dBm	dB	
5210.0	15.79	16.32	--	--	19.08	No Requirement	28.80	-9.72	16.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

For ac-80+80 operation channels 5210 + 5775 MHz transmitted simulateously during the measurement process

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-20	**Antenna Model:**	Integral Metal Sheet
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	97.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.13 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5180.0	18.72	17.39	18.21	18.24	24.19	No Requirement	28.80	-4.61	19.00
5200.0	20.42	19.55	20.13	20.60	26.22	No Requirement	28.80	-2.58	21.00
5240.0	21.14	20.38	20.98	21.91	27.16	No Requirement	28.80	-1.64	21.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-40	**Antenna Model:**	Integral Metal Sheet
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	97.5	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.09 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5190.0	16.40	15.80	16.02	16.63	22.25	No Requirement	28.80	-6.55	17.00
5230.0	21.28	20.61	21.02	21.87	27.24	No Requirement	28.80	-1.56	21.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11a	**Antenna Model:**	Integral Metal Sheet
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	97.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.13 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5745.0	18.35	16.45	18.56	17.98	23.93	No Requirement	28.80	-4.87	18.00
5785.0	17.55	15.67	17.48	17.05	23.02	No Requirement	28.80	-5.78	17.00
5825.0	16.32	14.51	15.97	15.41	21.63	No Requirement	28.80	-7.17	16.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-80	**Antenna Model:**	Integral Metal Sheet
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	95.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.22 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5775.0	16.35	14.52	16.42	15.91	21.89	No Requirement	28.80	-6.91	16.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-80+80	**Antenna Model:**	Integral Metal Sheet
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	95.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.22 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	c	b	d	Σ Port(s) dBm	MHz	dBm	dB	
5775.0	--	--	16.46	15.76	19.14	No Requirement	28.80	-9.66	16.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

For ac-80+80 operation channels 5210 + 5775 MHz transmitted simulateously during the measurement process

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-20	**Antenna Model:**	Integral Metal Sheet
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	97.0	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.13 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5745.0	18.07	16.27	18.41	17.77	23.73	No Requirement	28.80	-5.07	18.00
5785.0	17.32	15.48	17.28	16.86	22.82	No Requirement	28.80	-5.98	17.00
5825.0	16.12	14.28	15.75	15.14	21.40	No Requirement	28.80	-7.40	16.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-40	**Antenna Model:**	Integral Metal Sheet
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
Duty Cycle (%):	97.5	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.09 dB) (dBm) Port(s)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5755.0	18.13	16.42	18.18	17.74	23.69	No Requirement	28.80	-5.11	18.00
5795.0	16.20	14.50	16.30	15.95	21.82	No Requirement	28.80	-6.98	16.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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3.2. 26 dB & 99% Bandwidth

Conducted Test Conditions for 26 dB and 99% Bandwidth			
Standard:	FCC CFR 47:15.407	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	26 dB and 99 % Bandwidth	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.407 (a)	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for 26 dB and 99% Bandwidth Measurement
The bandwidth at 26 dB and 99 % is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The Resolution Bandwidth was set to approximately 1% of the emission bandwidth.
Testing was performed under ambient conditions at nominal voltage. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11a	**Duty Cycle (%):**	97.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	19.439	19.840	19.339	19.238	19.840	19.238		
5200.0	27.355	21.042	22.044	28.357	28.357	21.042		
5240.0	28.557	20.842	22.445	34.168	34.168	20.842		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	16.433	16.433	16.433	16.433	16.433	16.433		
5200.0	16.733	16.433	16.633	16.834	16.834	16.433		
5240.0	16.834	16.433	16.633	17.535	17.535	16.433		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5210.0	80.561	80.561	80.160	80.561	80.561	80.160		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5210.0	76.152	76.152	76.152	76.152	76.152	76.152		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80+80	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**c**	**b**	**d**	**Highest**	**Lowest**		
5210.0	80.561	80.160	--	--	80.561	80.160		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**c**	**b**	**d**	**Highest**	**Lowest**		
5210.0	76.152	76.152	--	--	76.152	76.152		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

For ac-80+80 operation channels 5210 + 5775 MHz transmitted simulateously during the measurement process

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-20	**Duty Cycle (%):**	97.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	20.240	20.341	20.341	20.240	20.341	20.240		
5200.0	23.146	21.042	21.443	28.257	28.257	21.042		
5240.0	25.752	20.541	22.345	33.166	33.166	20.541		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	17.635	17.635	17.635	17.635	17.635	17.635		
5200.0	17.836	17.635	17.735	17.836	17.836	17.635		
5240.0	17.836	17.635	17.735	18.136	18.136	17.635		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-40	**Duty Cycle (%):**	97.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5190.0	40.080	40.481	40.080	40.481	40.481	40.080		
5230.0	47.295	41.082	40.882	75.752	75.752	40.882		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5190.0	36.473	36.473	36.273	36.473	36.473	36.273		
5230.0	36.473	36.473	36.473	36.874	36.874	36.473		

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11a	**Duty Cycle (%):**	97.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	19.739	19.339	19.238	20.040	20.040	19.238		
5785.0	20.040	19.138	19.238	19.840	20.040	19.138		
5825.0	20.040	19.439	19.439	19.539	20.040	19.439		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	16.433	16.433	16.433	16.433	16.433	16.433		
5785.0	16.433	16.433	16.433	16.433	16.433	16.433		
5825.0	16.433	16.433	16.433	16.433	16.433	16.433		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5775.0	80.962	80.561	80.561	80.561	80.962	80.561		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5775.0	76.152	75.752	75.752	76.152	76.152	75.752		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11ac-80+80	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**c**	**b**	**d**	**Highest**	**Lowest**		
5775.0	--	--	80.561	80.962	80.962	80.561		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**c**	**b**	**d**	**Highest**	**Lowest**		
5775.0	--	--	76.152	76.152	76.152	76.152		

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

For ac-80+80 operation channels 5210 + 5775 MHz transmitted simulateously during the measurement process

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-20	**Duty Cycle (%):**	97.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	a	b	c	d	Highest	Lowest		
5745.0	20.641	20.140	20.040	20.441	20.641	20.040		
5785.0	20.240	19.840	20.140	20.240	20.240	19.840		
5825.0	20.240	20.140	20.541	20.040	20.541	20.040		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	a	b	c	d	Highest	Lowest		
5745.0	17.635	17.635	17.635	17.635	17.635	17.635		
5785.0	17.635	17.635	17.635	17.635	17.635	17.635		
5825.0	17.635	17.635	17.635	17.635	17.635	17.635		

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-40	**Duty Cycle (%):**	97.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz) Port(s)				26 dB Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5755.0	40.481	40.080	40.080	40.481	40.481	40.080		
5795.0	40.080	39.880	39.880	40.681	40.681	39.880		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5755.0	36.473	36.273	36.273	36.473	36.473	36.273		
5795.0	36.273	36.273	36.273	36.273	36.273	36.273		

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

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3.3. Power Spectral Density

Conducted Test Conditions for Power Spectral Density			
Standard:	FCC CFR 47:15.407	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	Power Spectral Density	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.407 (a)	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Power Spectral Density
The in-band power spectral density was measured using the test technique specified in KDB 789033. A 1 MHz measurement bandwidth was implemented for the analyzer sweep. Once the sweep is complete the analyzer trace data is downloaded and used for post processing purposes.
Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. The Peak Power Spectral Density is the highest level found across the emission bandwidth. With multiple antenna port measurements the numerical analyzer data from each port is summed (å) and a link to this additional graphic is provided.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section specified in this document.

Measure and sum the spectra across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The individual spectra are then summed mathematically in linear power units. Unlike in-band power measurements, in which the sum involves a single measured value (output power) from each output, measurements for compliance with PSD limits involve summing entire spectra across corresponding frequency bins on the various outputs. Consistency is maintained for any device with multiple transmitter outputs to be certain the individual outputs are all aligned with the same span and same number of points. In this instance, the linear power spectrum value within the first spectral bin of output 0 is summed with that in the first spectral bin of output 1, and the first spectral bin of output 2, and so on up to the Nth output to obtain the true value for the first frequency bin of the summed spectrum. The summed spectrum value for each frequency bin is computed in this fashion. These summed spectral values were post processed and the resulting numerical and graphical data presented.

NOTE: It may be observed that spectrum in some plots break the limit line however this in itself does NOT constitute a failure. In all cases a spectrum summation plot is provided in order to prove compliance. A failure occurs only after the summation of all spectrum plots have been summed and are found to be greater than the limit line.

Supporting Information
Calculated Power = A + 10 log (1/x) dBm
A = Total Power Spectral Density [10*Log10 ($10^{a/10}$ + $10^{b/10}$ + $10^{c/10}$ + $10^{d/10}$)]
x = Duty Cycle

Limits Power Spectral Density

Operating Frequency Band 5150-5250 MHz

15. 407 (a)(1)
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

15. 407 (a)(2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Operating Frequency Band 5725 – 5850 MHz

15. 407 (a)(3)
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Power Spectral Density - Amplitude Summation

The following Power Spectral Density measurement data consists of measuring data from each antenna port. The data is then linearly summed pixel by pixel for each of the spectrum data i.e Port a, Pixel 1+ Port b, Pixel 1 + Port c, Pixel 1+ Port d, Pixel 1 = Pixel 1 SUMMATION. This process is repeated for all pixels and the summation is compared to the limit. Its the summation plot that will determine product compliance and not the individual antenna port measurements.

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	97.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.13 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5180.0	7.456	6.095	7.879	7.175	12.776	15.8	-3.0
5200.0	9.098	8.494	9.697	9.395	14.645	15.8	-1.2
5240.0	9.566	8.716	10.775	10.788	15.566	15.8	-0.3

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.22 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5210.0	-2.871	-3.850	-2.617	-3.223	2.624	15.8	-13.2

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80 (80+80)	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:	APIN0334 was simulataneously transmitting on frequencies 5775 + 5210 MHz.		

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.22 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5210.0	-1.387	--	-0.637	--	1.875	15.8	-13.9

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

For ac-80+80 operation channels 5210 + 5775 MHz transmitted simulateously during the measurement process

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	97.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.13 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5180.0	7.081	5.630	7.637	6.998	12.522	15.8	-3.3
5200.0	8.661	8.121	9.348	9.160	14.782	15.8	-1.0
5240.0	9.477	8.842	10.410	10.443	15.566	15.8	-0.3

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	97.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5190.0	2.230	1.674	2.975	2.885	8.003	15.8	-7.8
5230.0	6.914	6.648	7.889	7.810	13.129	15.8	-2.7

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	97.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.13 dB)	Limit	Margin
MHz	a	b	c	d	dBm/500 KHz	dBm/500 KHz	dB
5745.0	3.889	2.210	6.693	3.879	9.869	28.8	-19.0
5785.0	3.268	1.614	5.070	2.152	8.651	28.8	-20.2
5825.0	1.917	0.380	3.024	1.026	7.008	28.8	-21.8

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.22 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5775.0	-3.809	-6.715	-2.482	-5.040	1.101	28.8	-27.7

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80+80	**Duty Cycle (%):**	95.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:	APIN0334 was simulataneously transmitting on frequencies 5775 + 5210 MHz.		

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.22 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5775.0	--	-4.245	--	-4.691	-1.343	28.8	-30.2

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

For ac-80+80 operation channels 5210 + 5775 MHz transmitted simulateously during the measurement process

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	97.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.13 dB)	Limit	Margin
MHz	a	b	c	d	dBm/500 KHz	dBm/500 KHz	dB
5745.0	3.513	2.298	6.465	3.329	10.013	28.8	-18.8
5785.0	2.808	1.371	4.863	2.285	8.558	28.8	-20.3
5825.0	1.444	-0.160	3.129	0.678	7.251	28.8	-21.6

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	97.5
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	2.10
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	5.10
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5755.0	0.922	-0.428	3.346	0.324	6.595	28.8	-22.2
5795.0	-1.045	-2.238	0.965	-1.809	4.717	28.8	-24.1

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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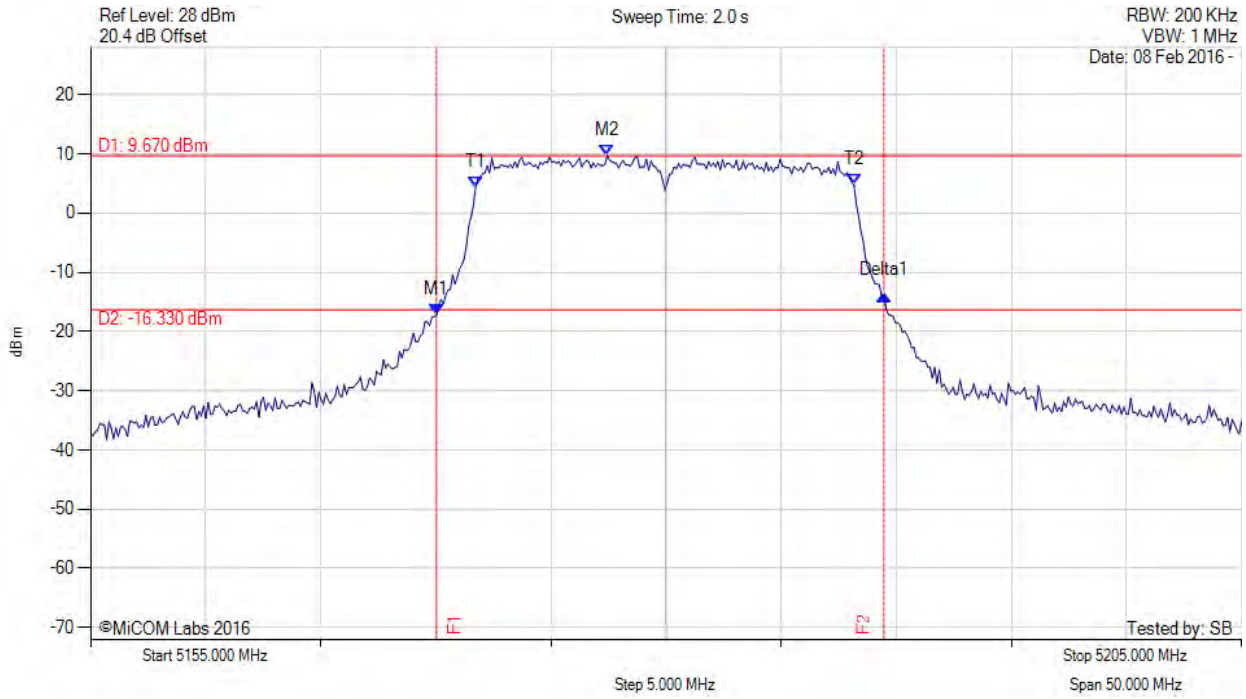
APPENDIX A - GRAPHICAL IMAGES

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A.1. 26 dB & 99% Bandwidth

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



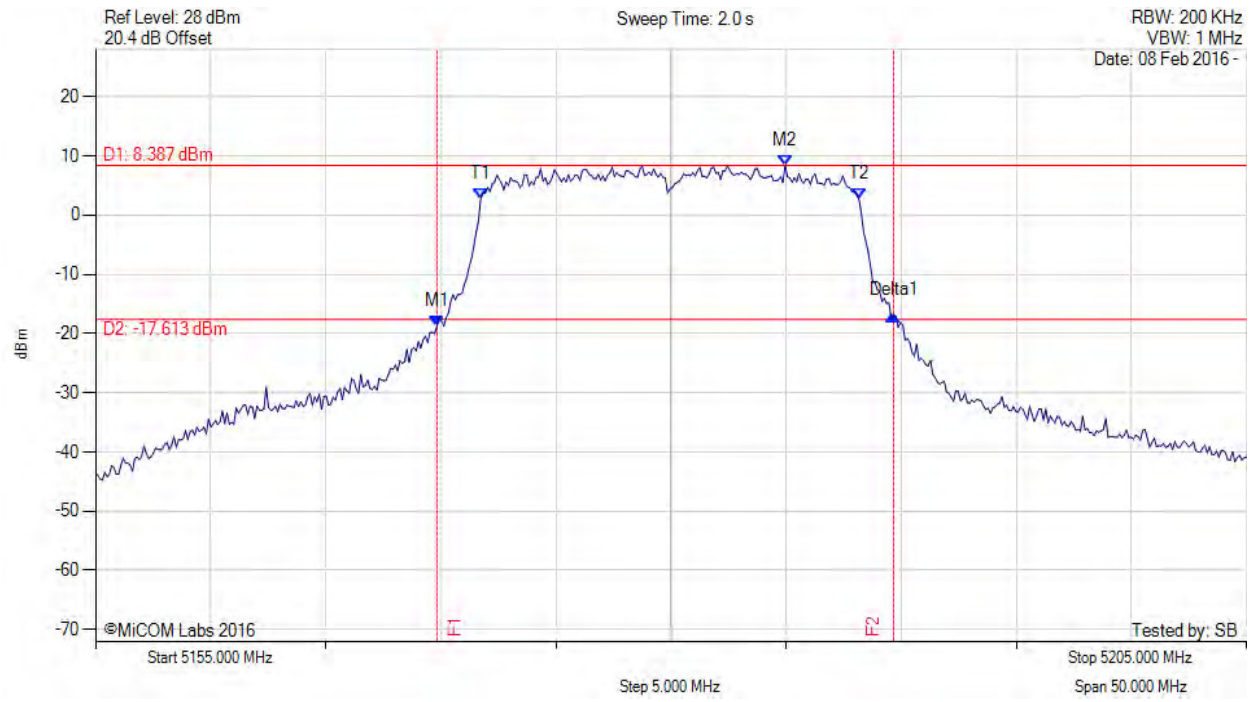
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5170.030 MHz : -17.135 dBm M2 : 5177.445 MHz : 9.670 dBm Delta1 : 19.439 MHz : 3.327 dB T1 : 5171.733 MHz : 4.396 dBm T2 : 5188.166 MHz : 4.732 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



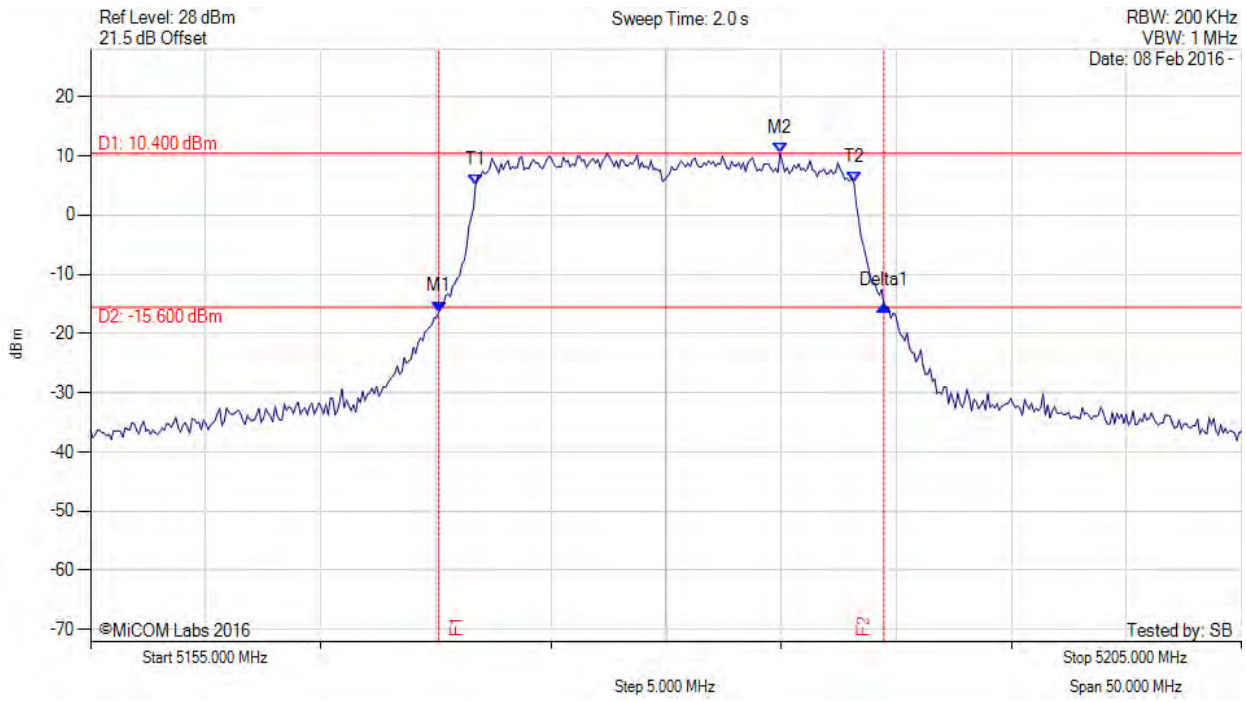
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.830 MHz : -18.792 dBm M2 : 5184.960 MHz : 8.387 dBm Delta1 : 19.840 MHz : 1.804 dB T1 : 5171.733 MHz : 2.727 dBm T2 : 5188.166 MHz : 2.674 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



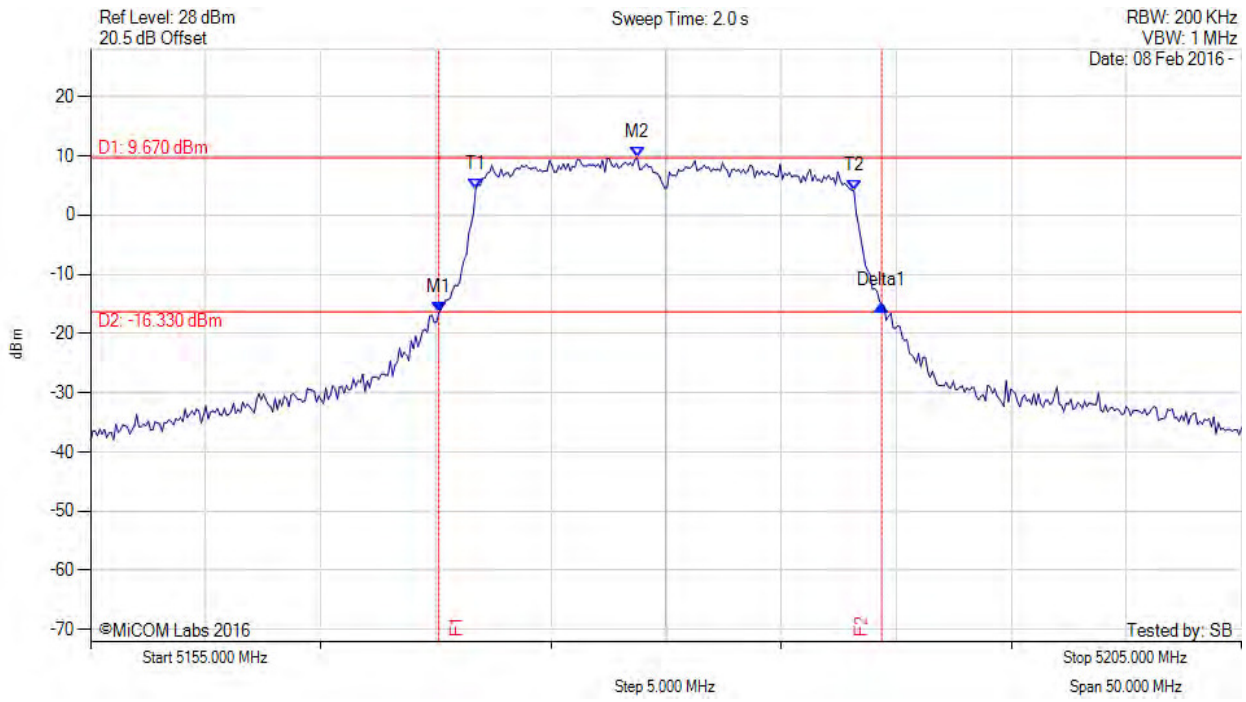
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5170.130 MHz : -16.330 dBm M2 : 5184.960 MHz : 10.400 dBm Delta1 : 19.339 MHz : 1.127 dB T1 : 5171.733 MHz : 5.131 dBm T2 : 5188.166 MHz : 5.470 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.339 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



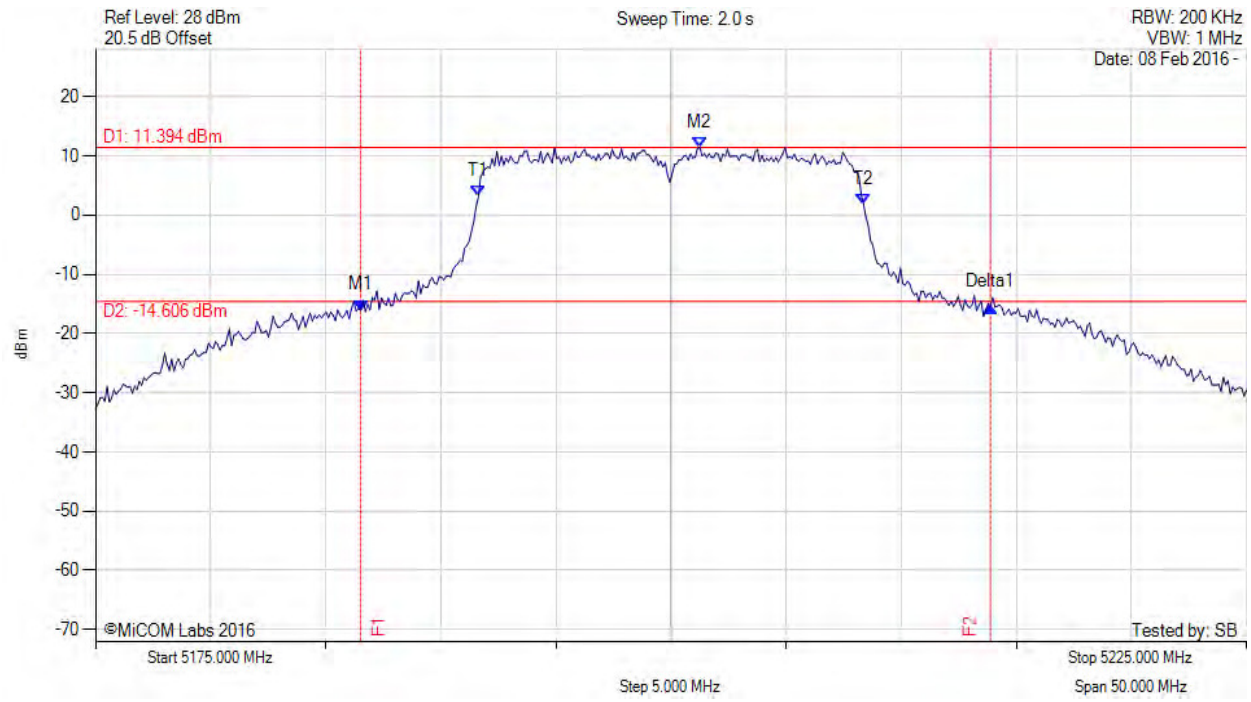
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5170.130 MHz : -16.521 dBm M2 : 5178.747 MHz : 9.670 dBm Delta1 : 19.238 MHz : 1.348 dB T1 : 5171.733 MHz : 4.421 dBm T2 : 5188.166 MHz : 4.097 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



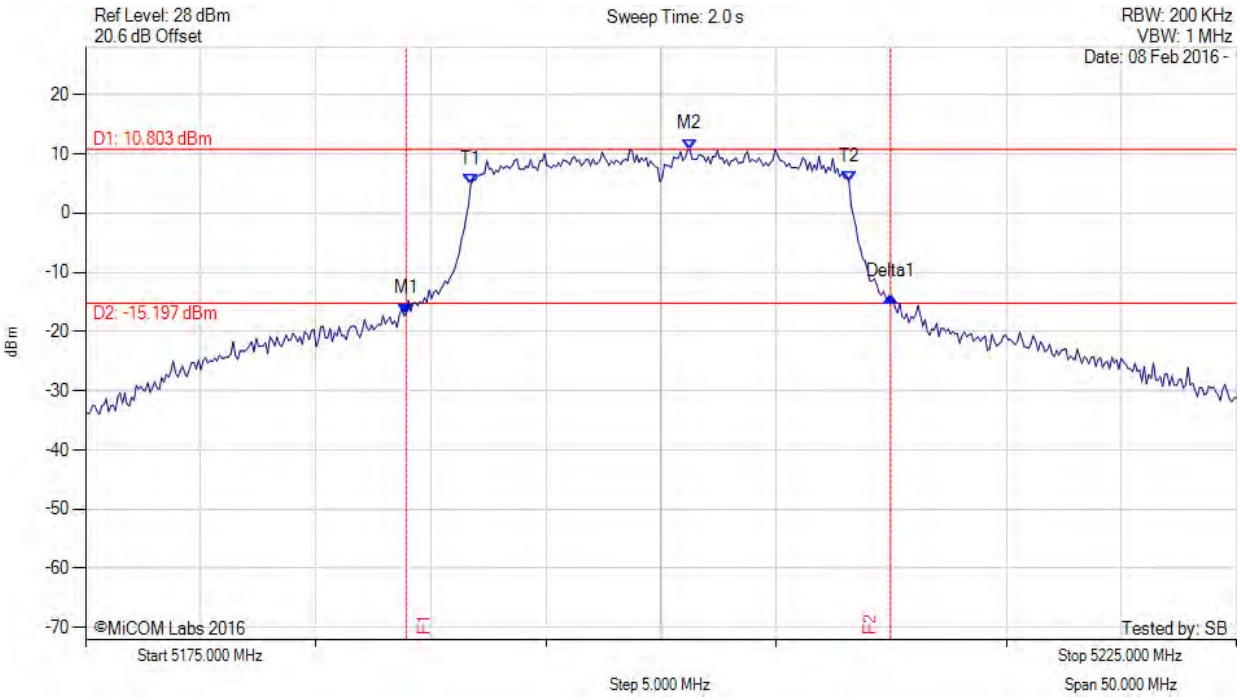
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5186.523 MHz : -16.073 dBm M2 : 5201.253 MHz : 11.394 dBm Delta1 : 27.355 MHz : 0.622 dB T1 : 5191.633 MHz : 3.115 dBm T2 : 5208.367 MHz : 1.844 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 27.355 MHz Measured 99% Bandwidth: 16.733 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



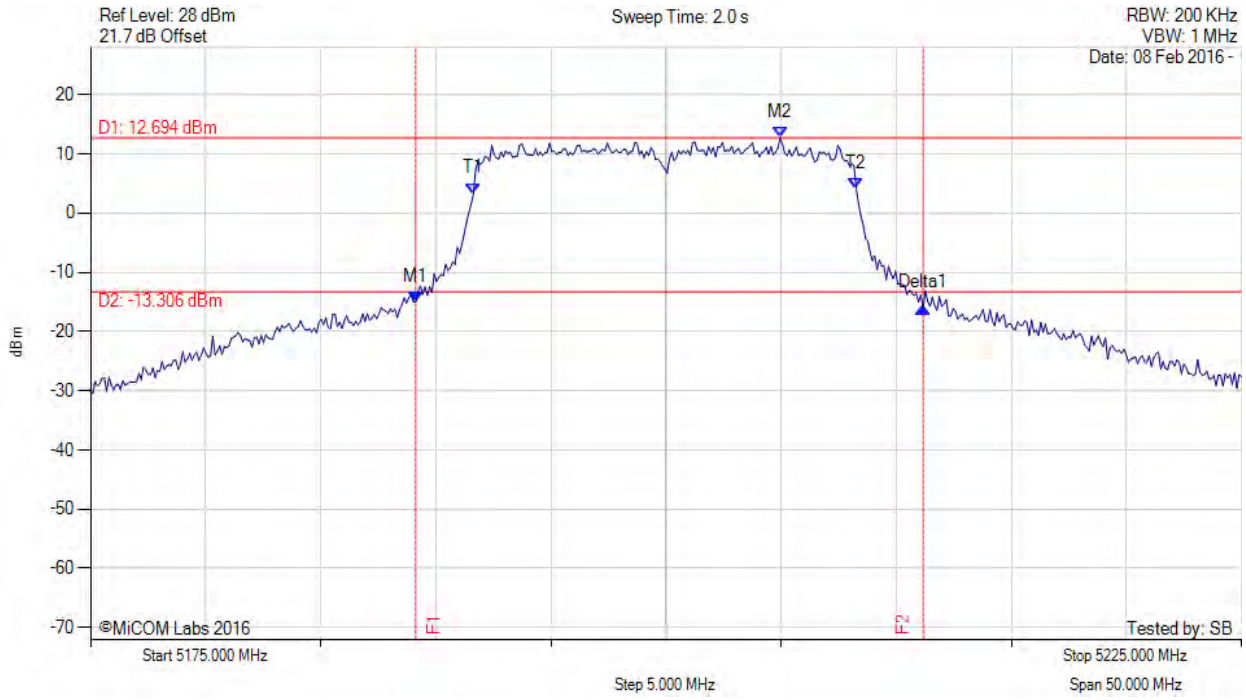
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.928 MHz : -17.029 dBm M2 : 5201.253 MHz : 10.803 dBm Delta1 : 21.042 MHz : 2.935 dB T1 : 5191.733 MHz : 4.769 dBm T2 : 5208.166 MHz : 5.362 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 21.042 MHz Measured 99% Bandwidth: 16.433 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



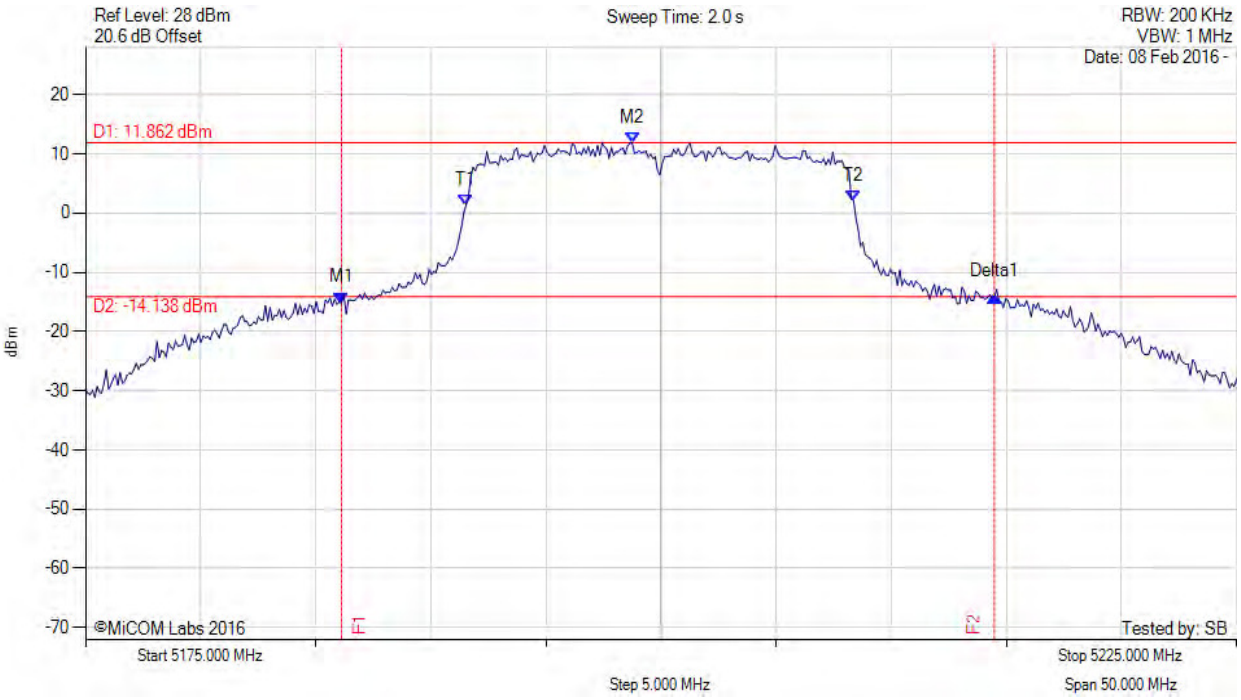
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5189.128 MHz : -14.997 dBm M2 : 5204.960 MHz : 12.694 dBm Delta1 : 22.044 MHz : -0.988 dB T1 : 5191.633 MHz : 3.327 dBm T2 : 5208.267 MHz : 4.211 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 22.044 MHz Measured 99% Bandwidth: 16.633 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



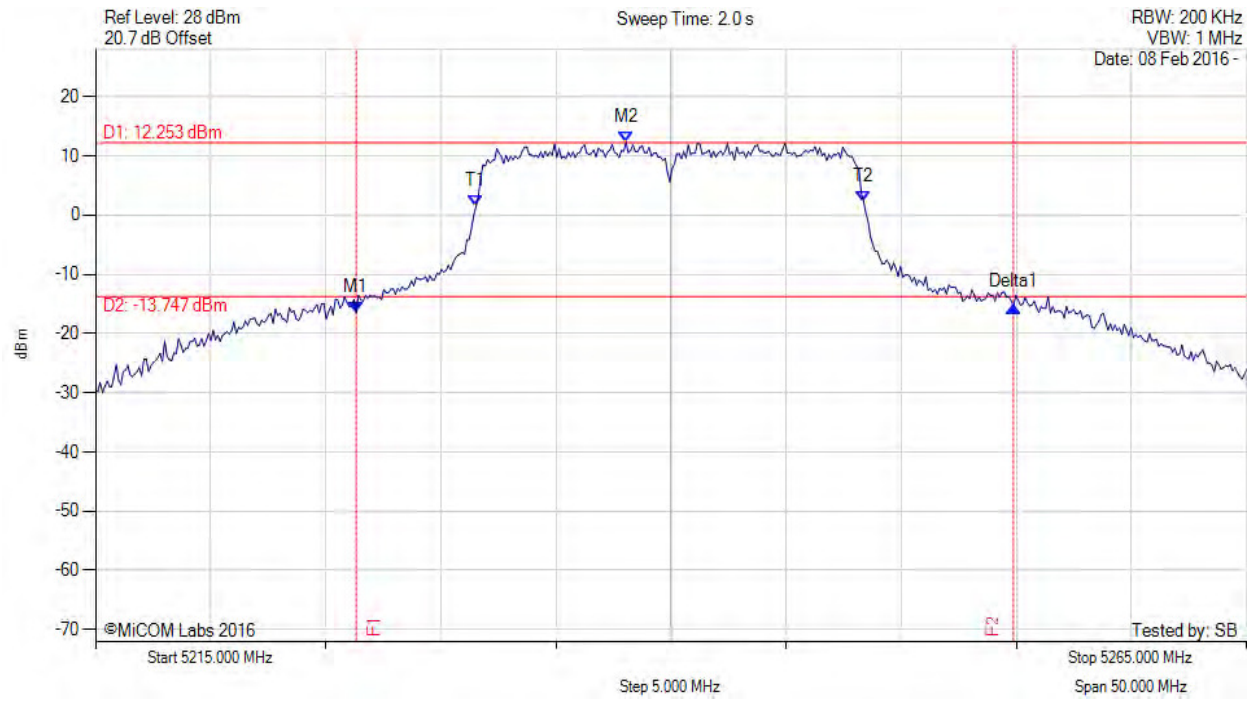
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5186.122 MHz : -15.150 dBm M2 : 5198.747 MHz : 11.862 dBm Delta1 : 28.357 MHz : 0.986 dB T1 : 5191.533 MHz : 1.291 dBm T2 : 5208.367 MHz : 2.106 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 28.357 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



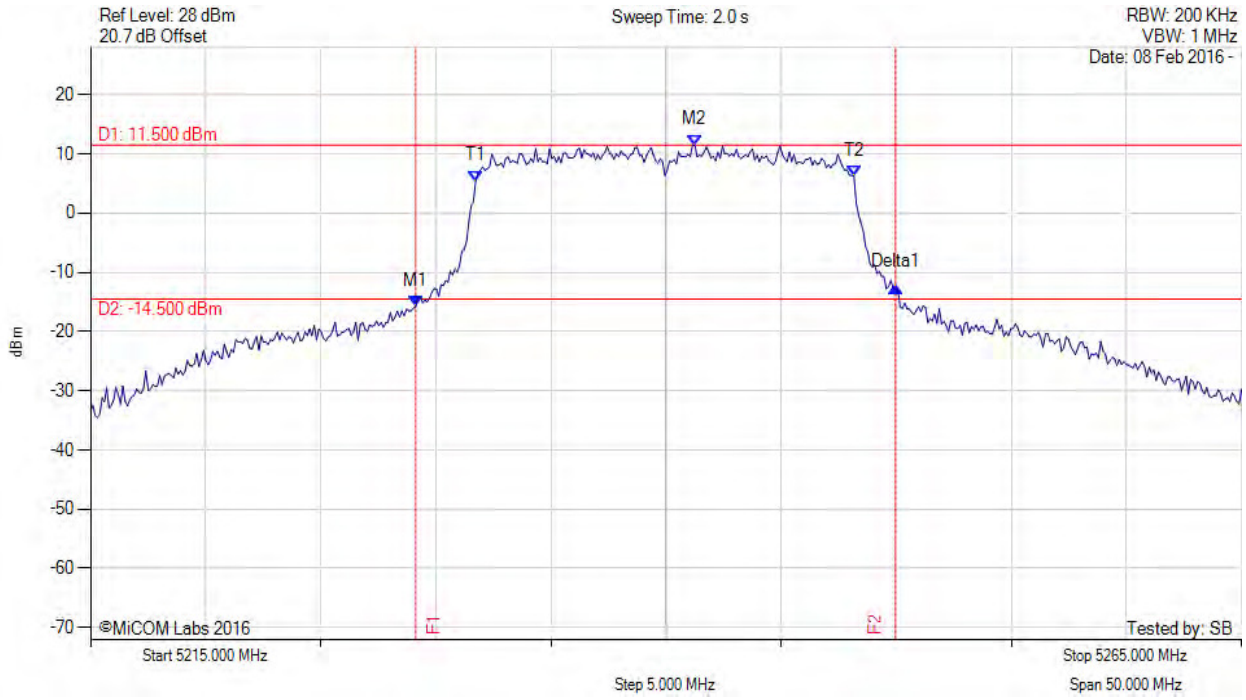
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5226.323 MHz : -16.509 dBm M2 : 5238.046 MHz : 12.253 dBm Delta1 : 28.557 MHz : 1.051 dB T1 : 5231.533 MHz : 1.472 dBm T2 : 5248.367 MHz : 2.310 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 28.557 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



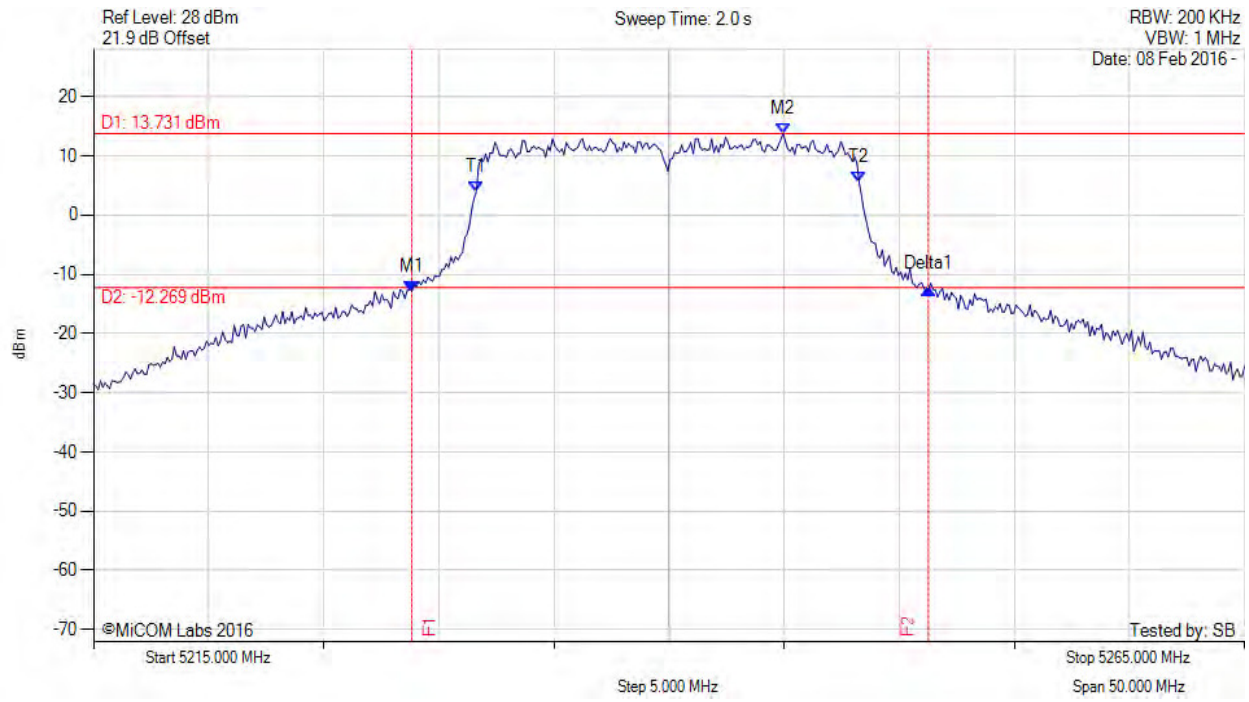
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5229.128 MHz : -15.819 dBm M2 : 5241.253 MHz : 11.500 dBm Delta1 : 20.842 MHz : 3.264 dB T1 : 5231.733 MHz : 5.429 dBm T2 : 5248.166 MHz : 6.217 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 20.842 MHz Measured 99% Bandwidth: 16.433 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



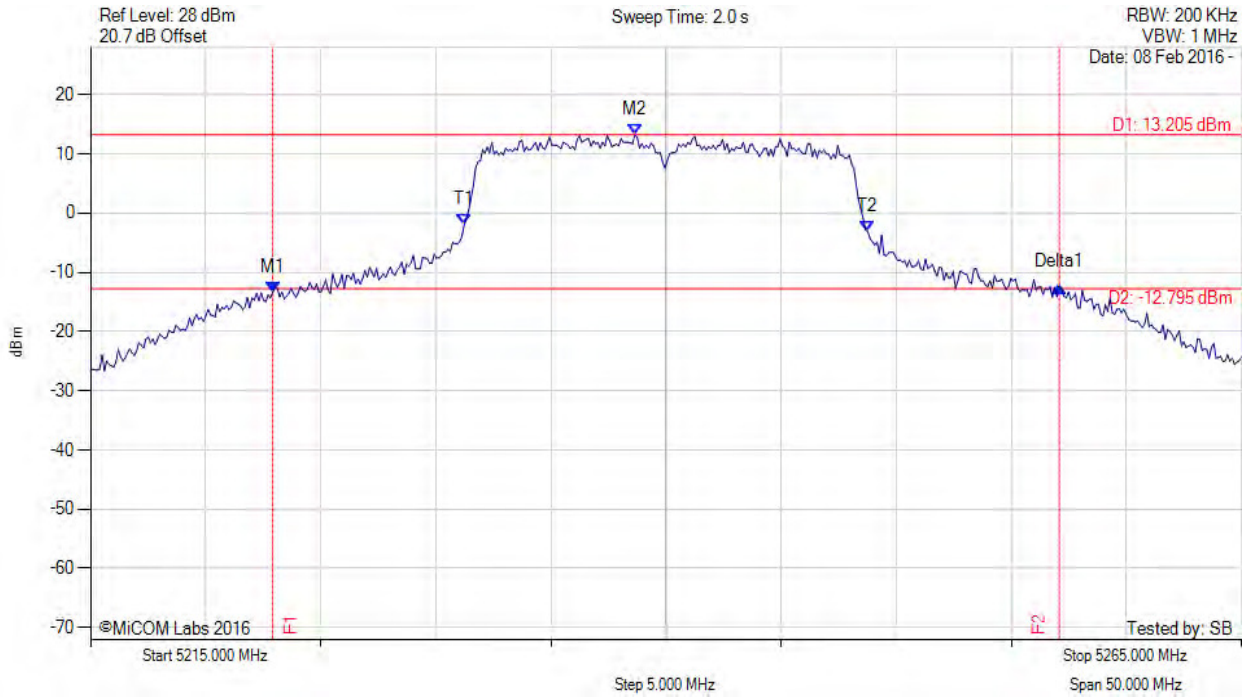
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.828 MHz : -12.848 dBm M2 : 5244.960 MHz : 13.731 dBm Delta1 : 22.445 MHz : 0.401 dB T1 : 5231.633 MHz : 3.992 dBm T2 : 5248.267 MHz : 5.480 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 22.445 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



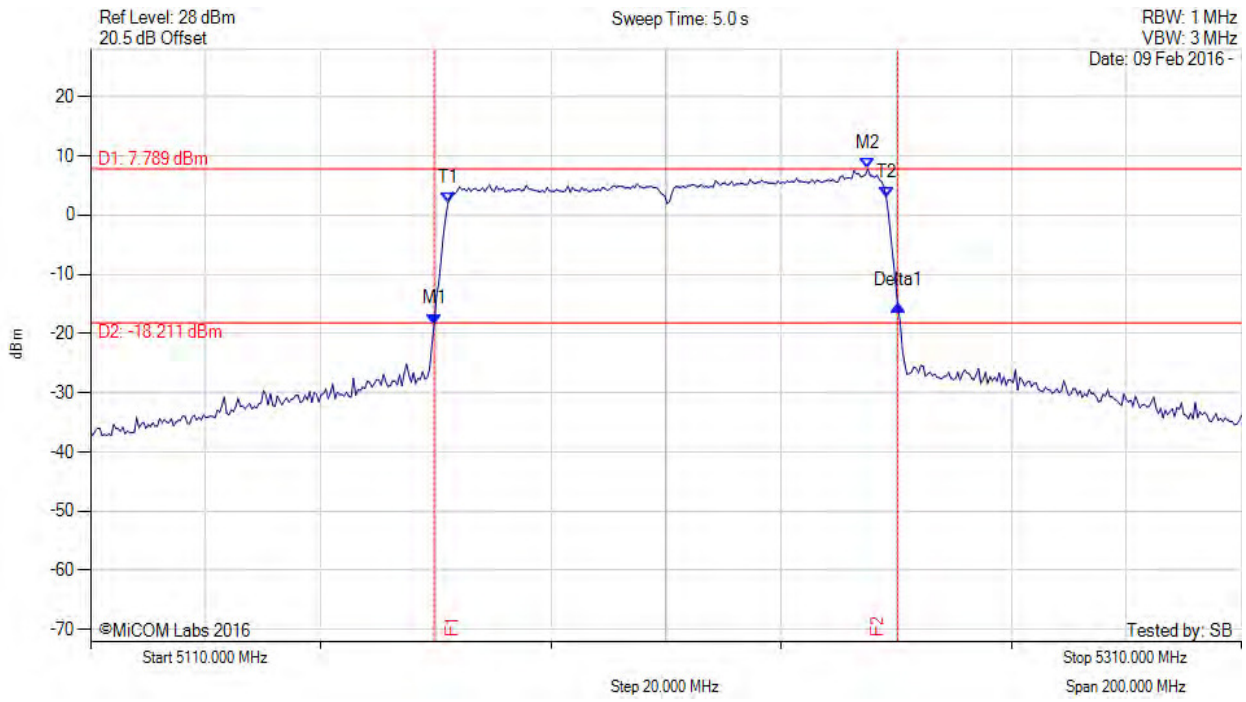
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5222.916 MHz : -13.320 dBm M2 : 5238.647 MHz : 13.205 dBm Delta1 : 34.168 MHz : 0.779 dB T1 : 5231.232 MHz : -1.937 dBm T2 : 5248.768 MHz : -3.163 dBm OBW : 17.535 MHz	Measured 26 dB Bandwidth: 34.168 MHz Measured 99% Bandwidth: 17.535 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



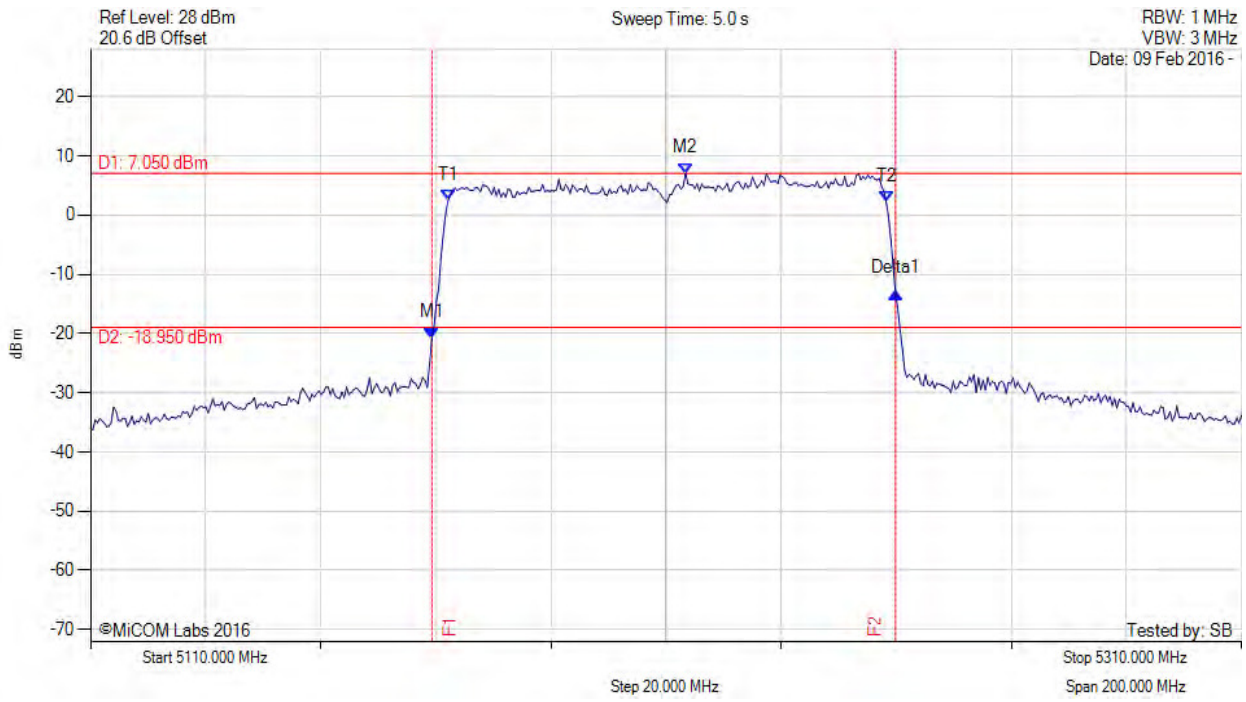
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.719 MHz : -18.418 dBm M2 : 5245.070 MHz : 7.789 dBm Delta1 : 80.561 MHz : 3.106 dB T1 : 5172.124 MHz : 2.080 dBm T2 : 5248.277 MHz : 3.058 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



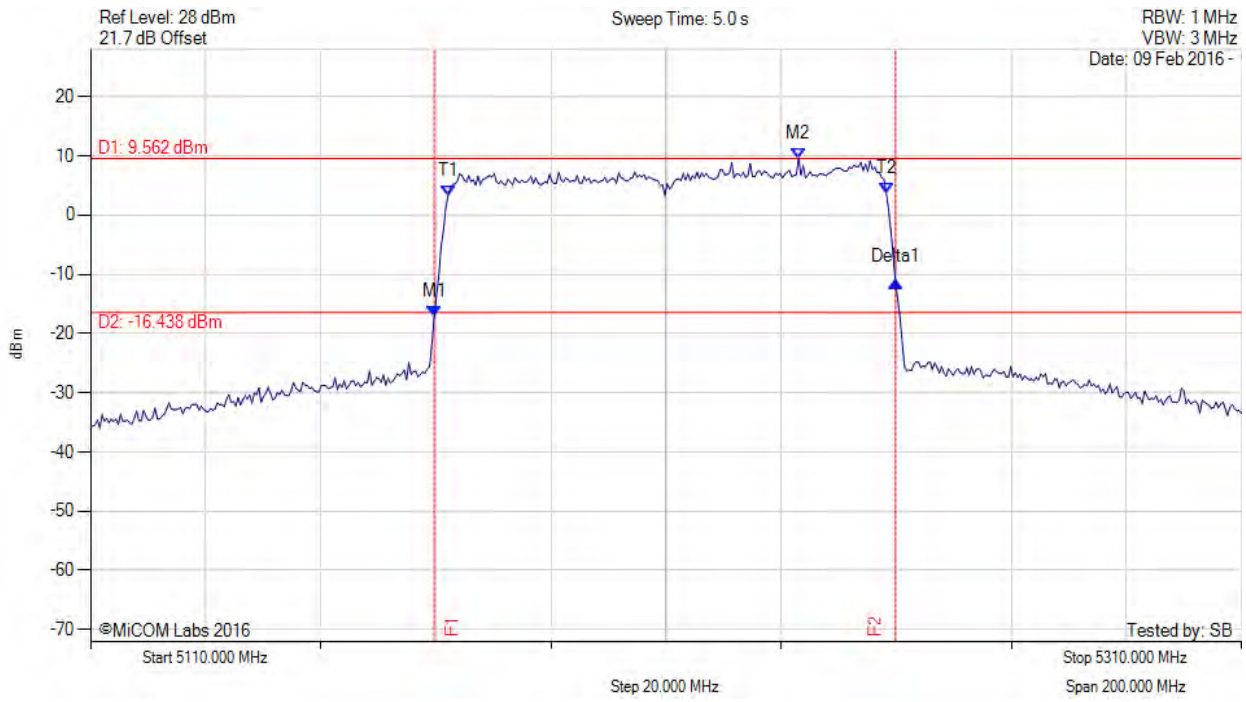
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.319 MHz : -20.755 dBm M2 : 5213.407 MHz : 7.050 dBm Delta1 : 80.561 MHz : 7.675 dB T1 : 5172.124 MHz : 2.401 dBm T2 : 5248.277 MHz : 2.192 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



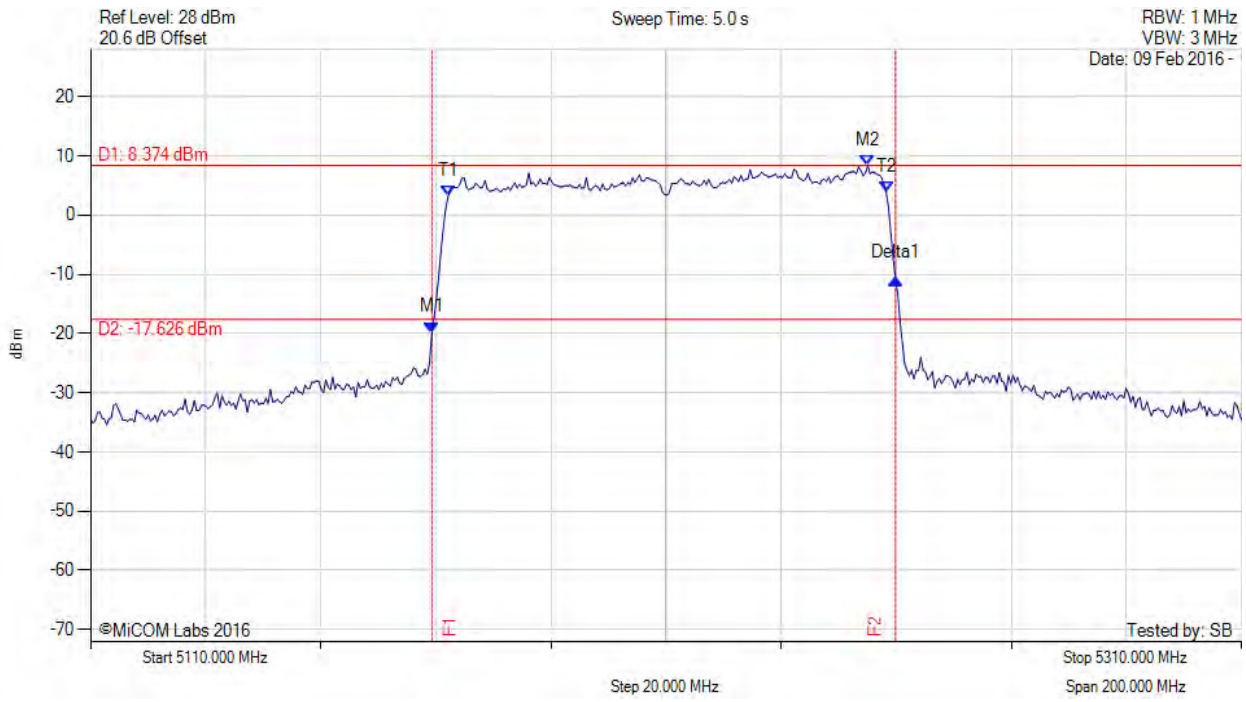
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.719 MHz : -17.196 dBm M2 : 5233.046 MHz : 9.562 dBm Delta1 : 80.160 MHz : 5.886 dB T1 : 5172.124 MHz : 3.253 dBm T2 : 5248.277 MHz : 3.748 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



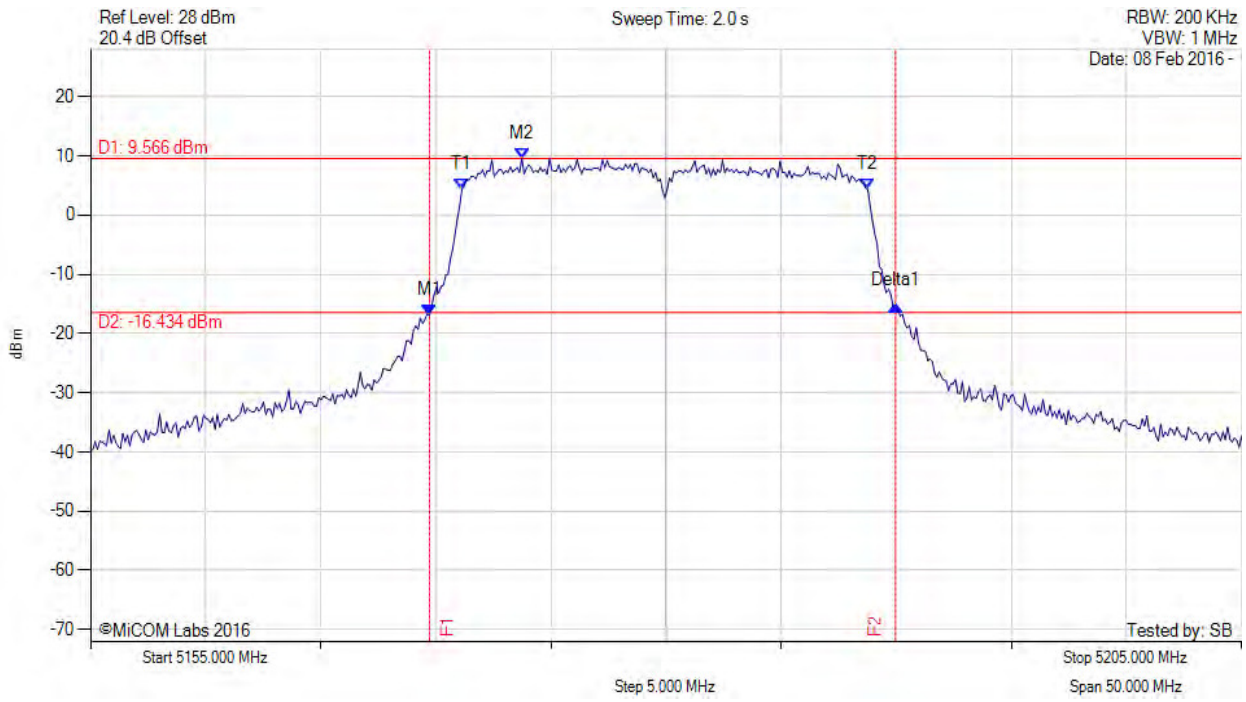
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.319 MHz : -19.822 dBm M2 : 5245.070 MHz : 8.374 dBm Delta1 : 80.561 MHz : 9.113 dB T1 : 5172.124 MHz : 3.105 dBm T2 : 5248.277 MHz : 3.817 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



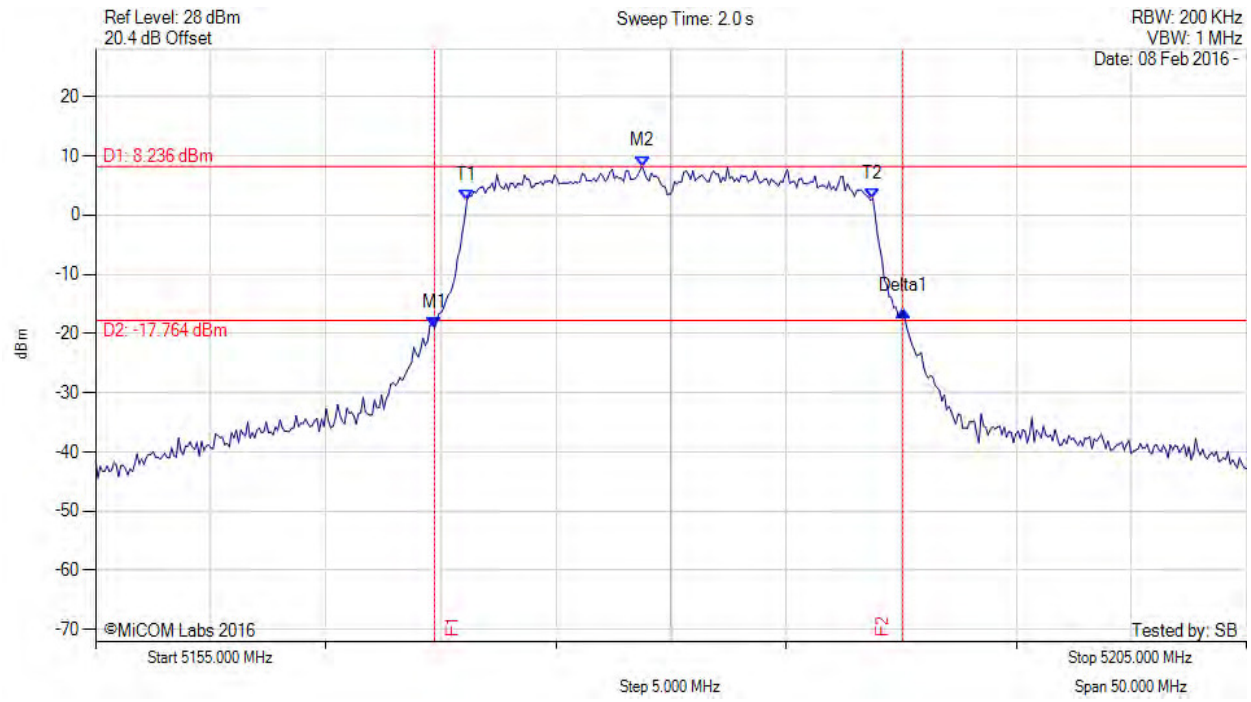
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.729 MHz : -16.830 dBm M2 : 5173.737 MHz : 9.566 dBm Delta1 : 20.240 MHz : 1.599 dB T1 : 5171.132 MHz : 4.398 dBm T2 : 5188.768 MHz : 4.303 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.240 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



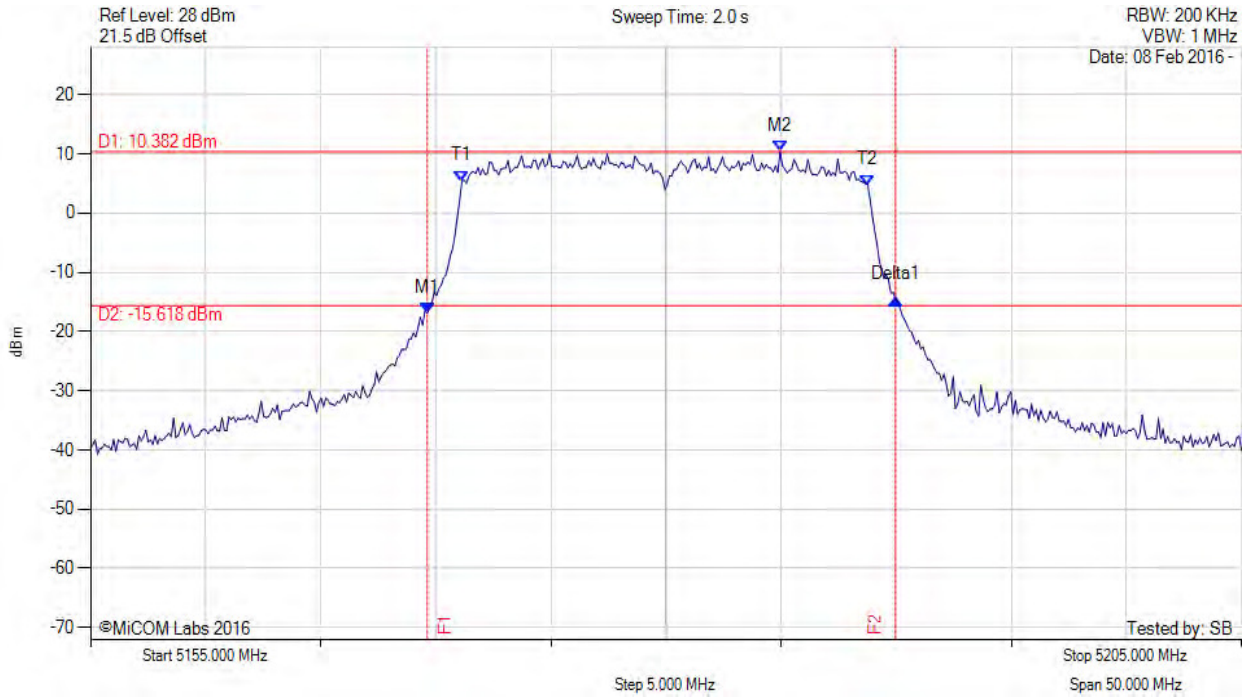
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.729 MHz : -19.053 dBm M2 : 5178.747 MHz : 8.236 dBm Delta1 : 20.341 MHz : 2.890 dB T1 : 5171.132 MHz : 2.554 dBm T2 : 5188.768 MHz : 2.824 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.341 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



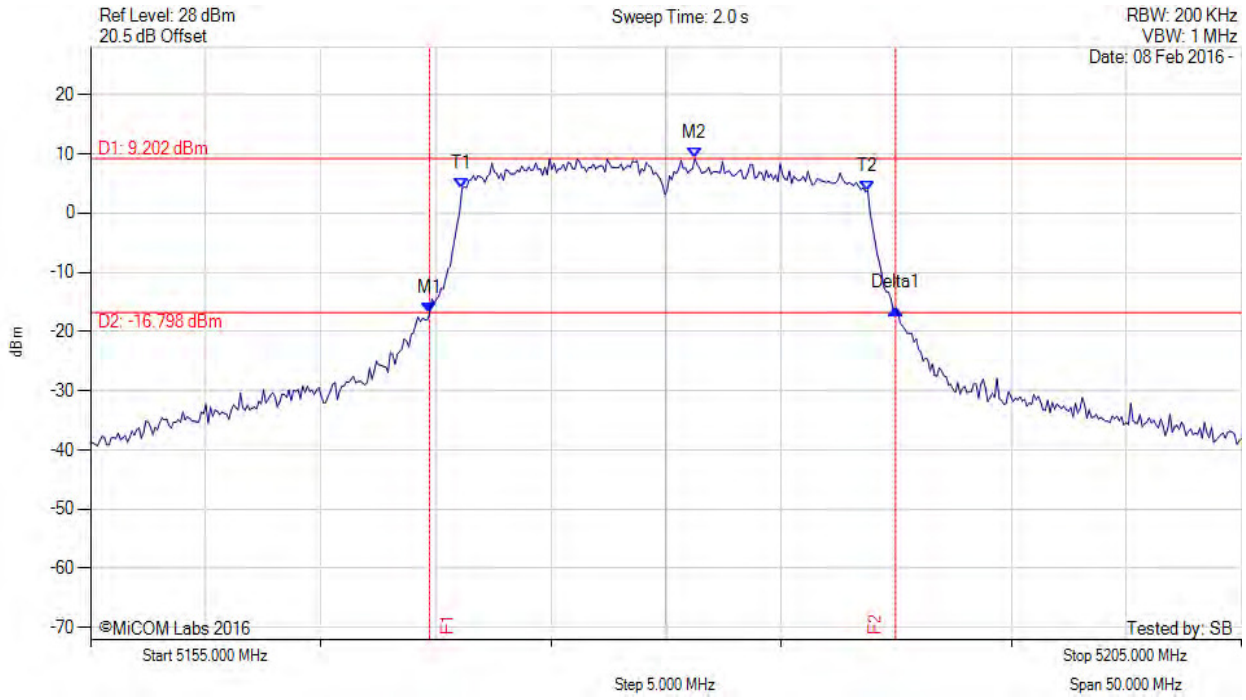
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.629 MHz : -16.899 dBm M2 : 5184.960 MHz : 10.382 dBm Delta1 : 20.341 MHz : 2.302 dB T1 : 5171.132 MHz : 5.407 dBm T2 : 5188.768 MHz : 4.703 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.341 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



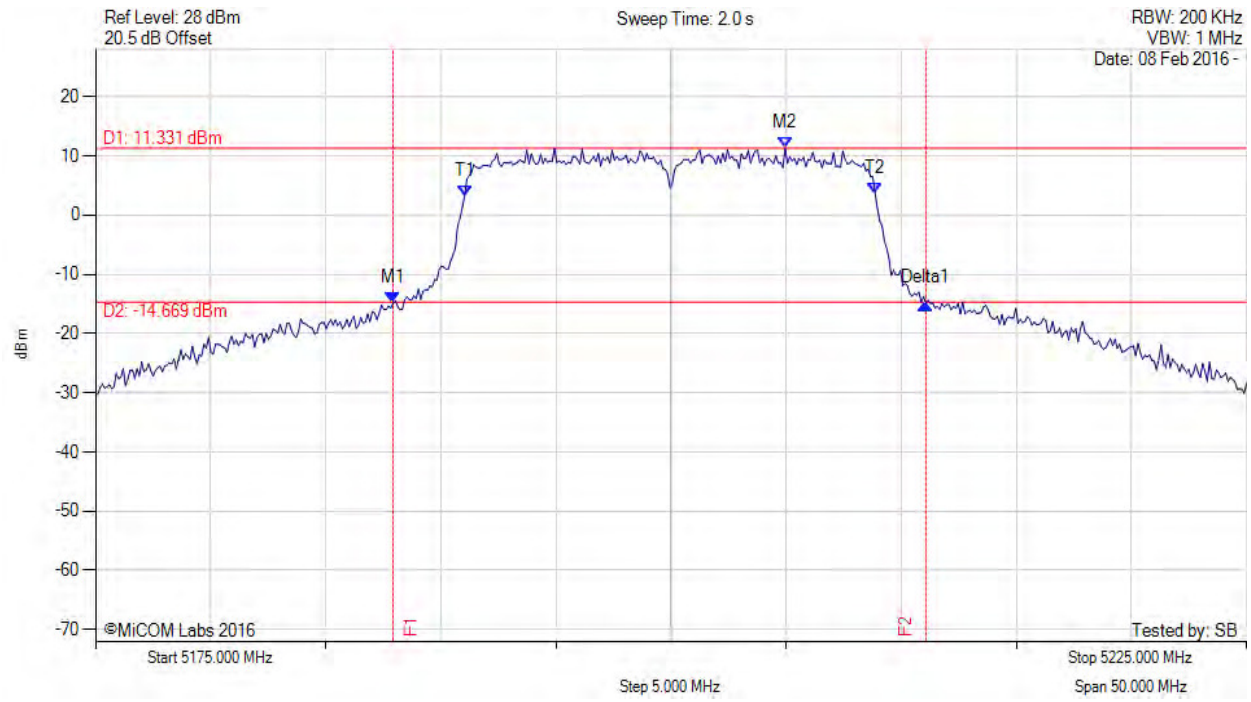
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.729 MHz : -16.948 dBm M2 : 5181.253 MHz : 9.202 dBm Delta1 : 20.240 MHz : 0.870 dB T1 : 5171.132 MHz : 4.099 dBm T2 : 5188.768 MHz : 3.766 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.240 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



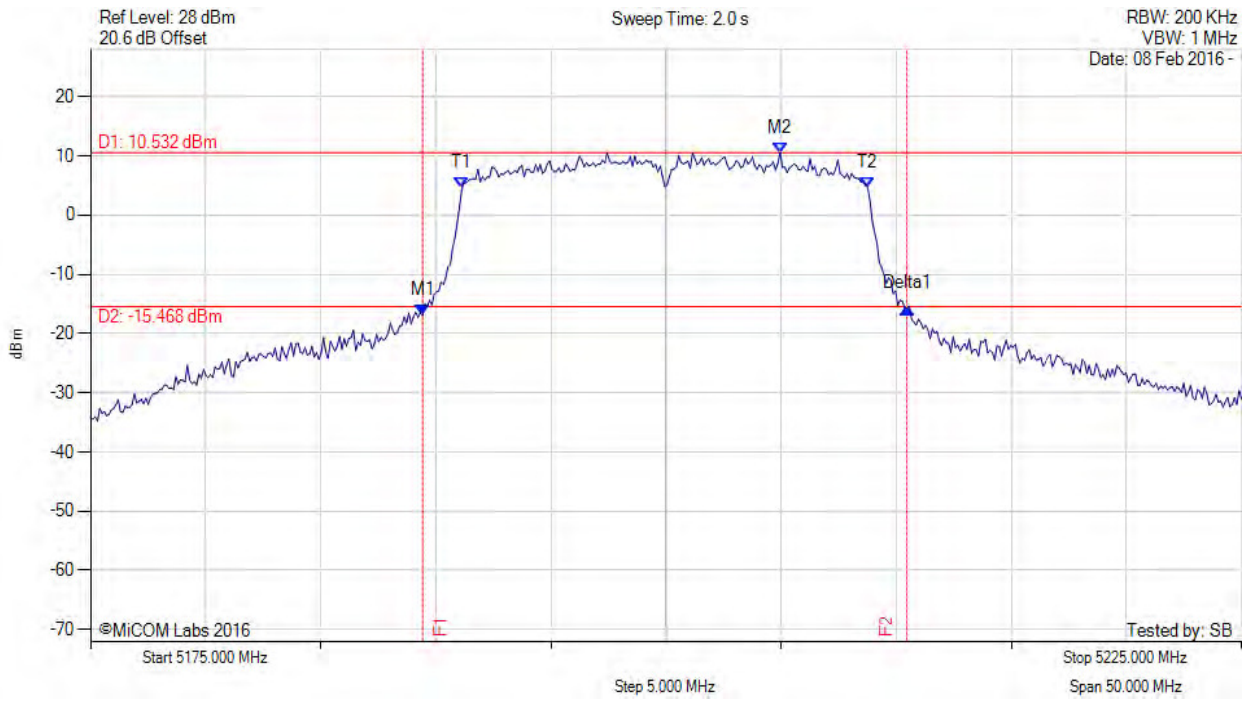
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5187.926 MHz : -14.898 dBm M2 : 5204.960 MHz : 11.331 dBm Delta1 : 23.146 MHz : -0.016 dB T1 : 5191.032 MHz : 3.239 dBm T2 : 5208.868 MHz : 3.674 dBm OBW : 17.836 MHz	Measured 26 dB Bandwidth: 23.146 MHz Measured 99% Bandwidth: 17.836 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



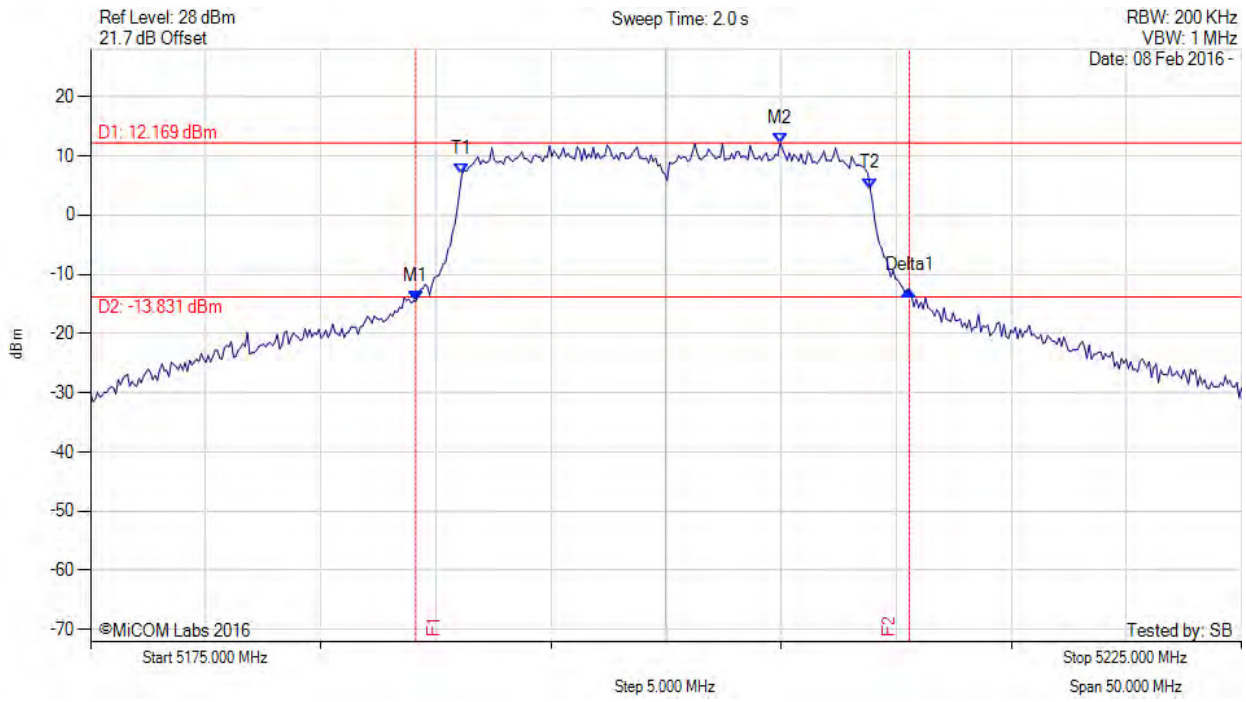
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5189.429 MHz : -16.948 dBm M2 : 5204.960 MHz : 10.532 dBm Delta1 : 21.042 MHz : 1.291 dB T1 : 5191.132 MHz : 4.524 dBm T2 : 5208.768 MHz : 4.557 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 21.042 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



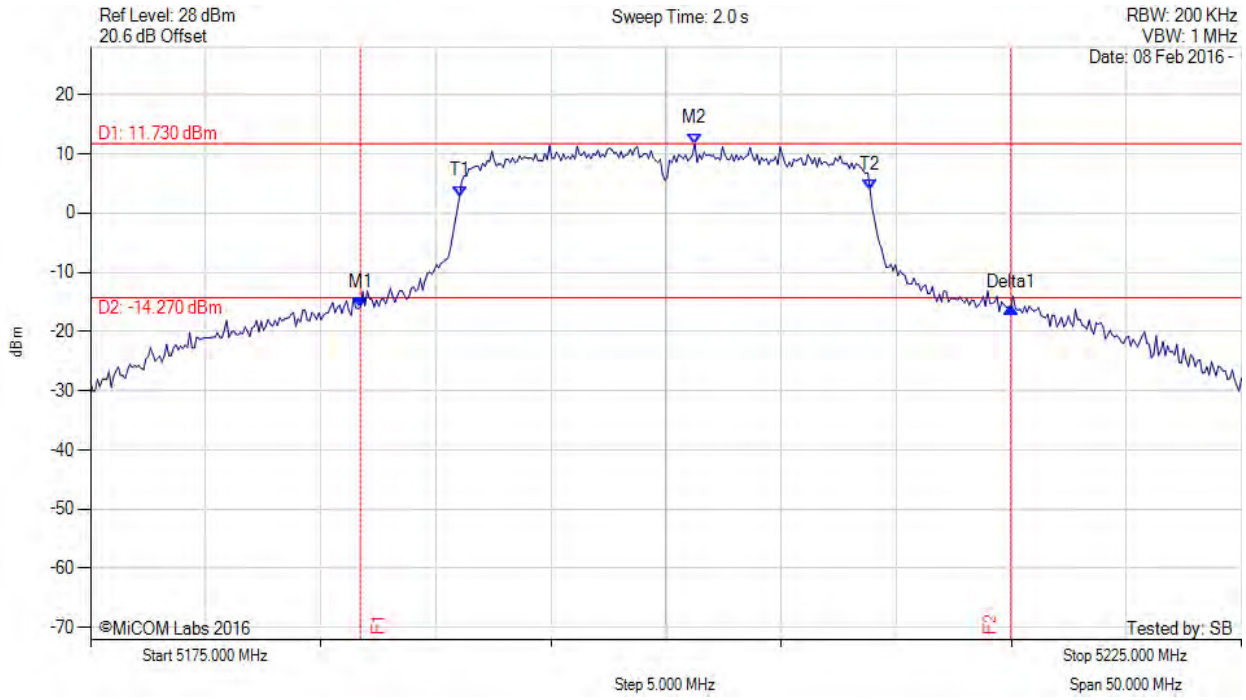
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5189.128 MHz : -14.471 dBm M2 : 5204.960 MHz : 12.169 dBm Delta1 : 21.443 MHz : 1.775 dB T1 : 5191.132 MHz : 6.878 dBm T2 : 5208.868 MHz : 4.490 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 21.443 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



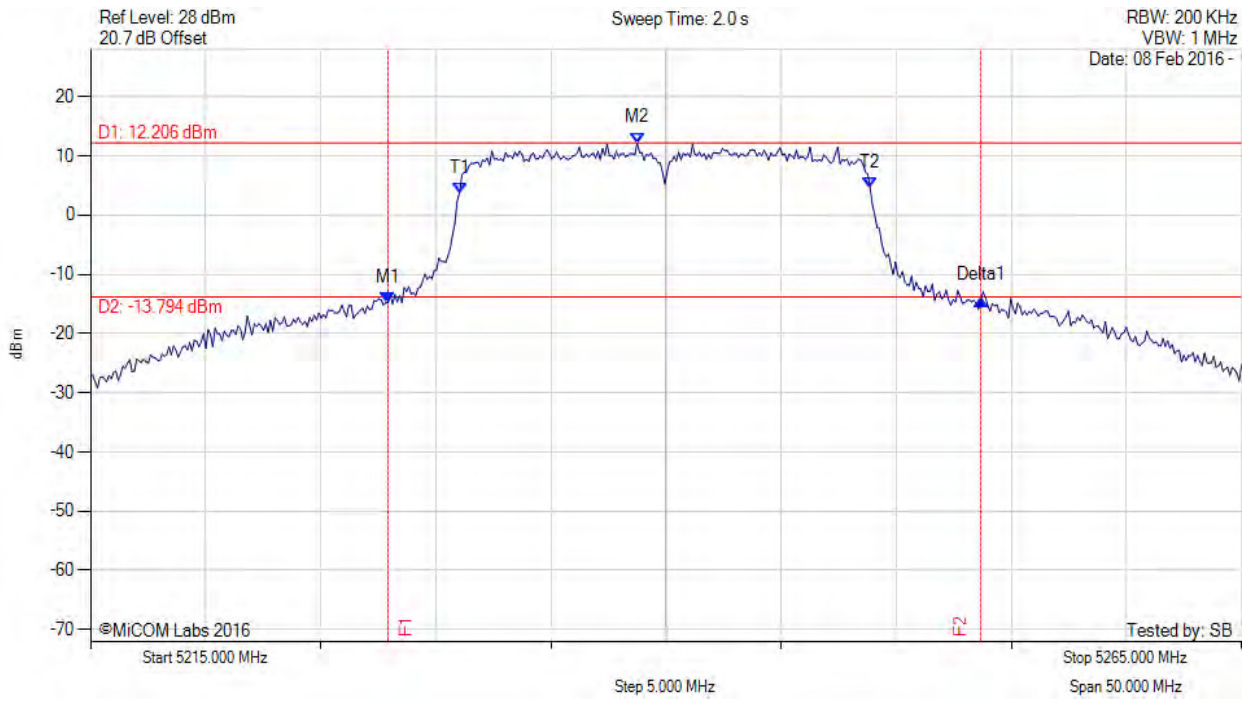
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5186.723 MHz : -15.976 dBm M2 : 5201.253 MHz : 11.730 dBm Delta1 : 28.257 MHz : 0.098 dB T1 : 5191.032 MHz : 2.839 dBm T2 : 5208.868 MHz : 3.878 dBm OBW : 17.836 MHz	Measured 26 dB Bandwidth: 28.257 MHz Measured 99% Bandwidth: 17.836 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



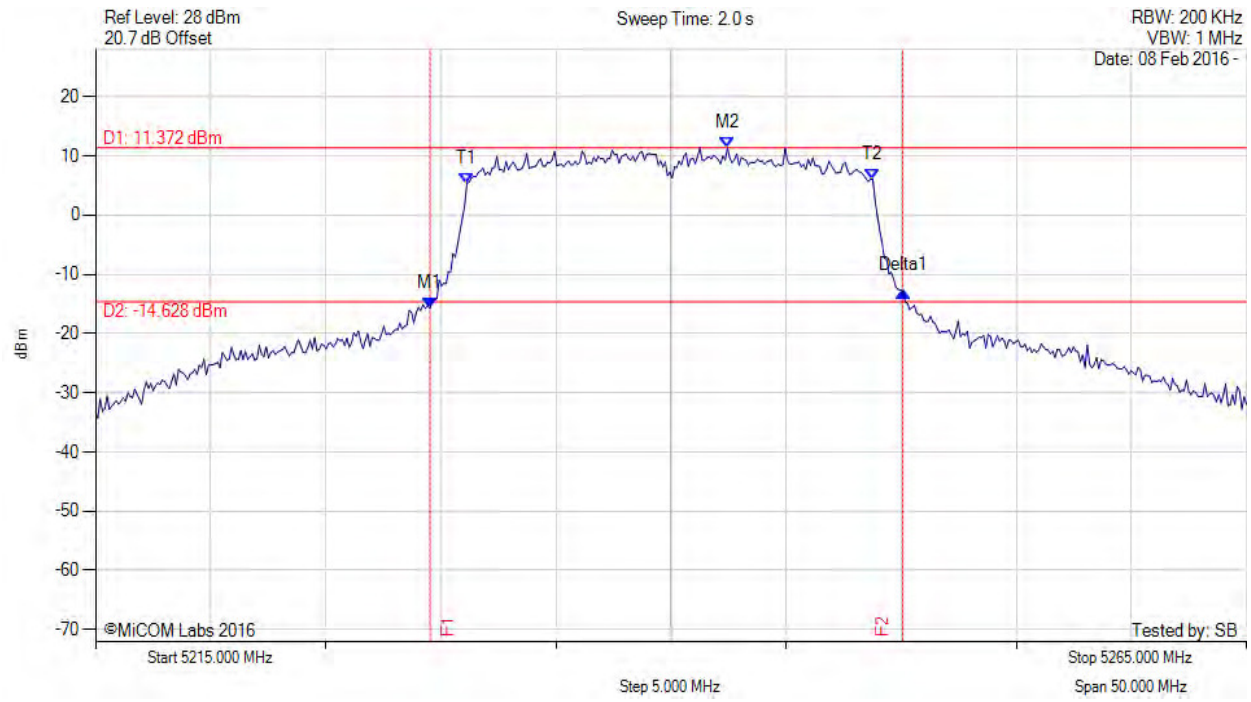
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5227.926 MHz : -14.778 dBm M2 : 5238.747 MHz : 12.206 dBm Delta1 : 25.752 MHz : 0.510 dB T1 : 5231.032 MHz : 3.758 dBm T2 : 5248.868 MHz : 4.581 dBm OBW : 17.836 MHz	Measured 26 dB Bandwidth: 25.752 MHz Measured 99% Bandwidth: 17.836 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



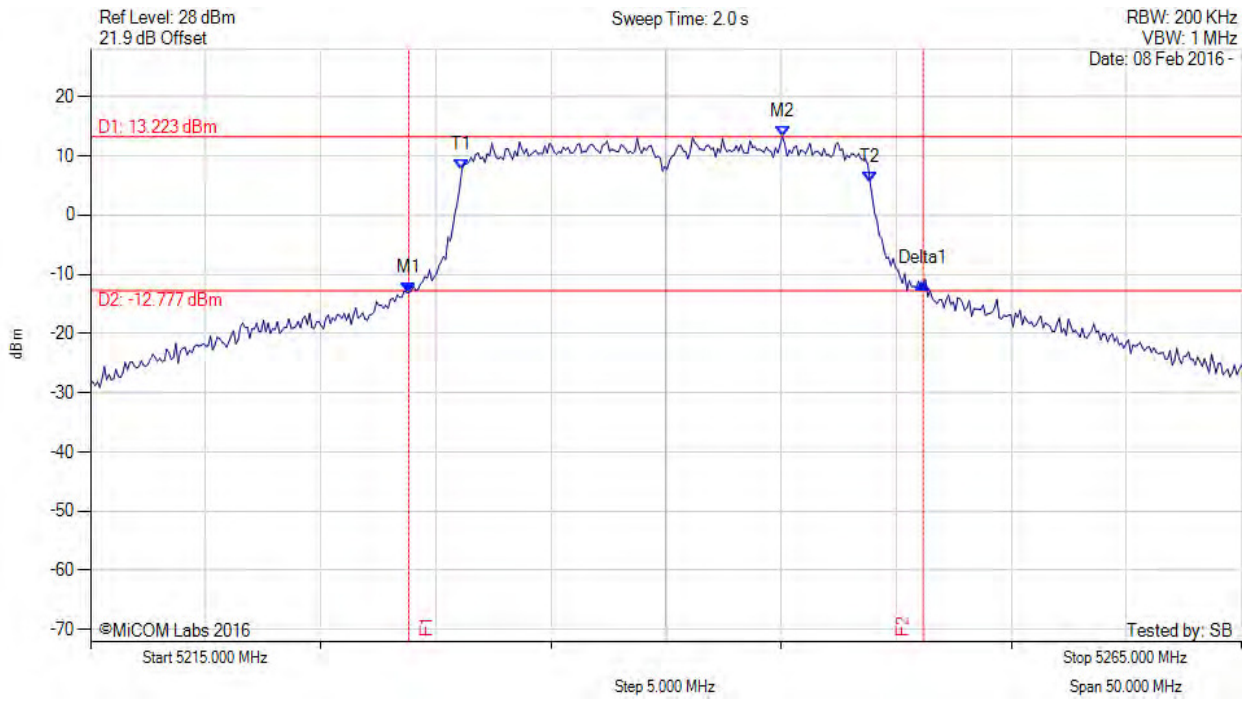
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5229.529 MHz : -15.734 dBm M2 : 5242.455 MHz : 11.372 dBm Delta1 : 20.541 MHz : 2.925 dB T1 : 5231.132 MHz : 5.375 dBm T2 : 5248.768 MHz : 6.025 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.541 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



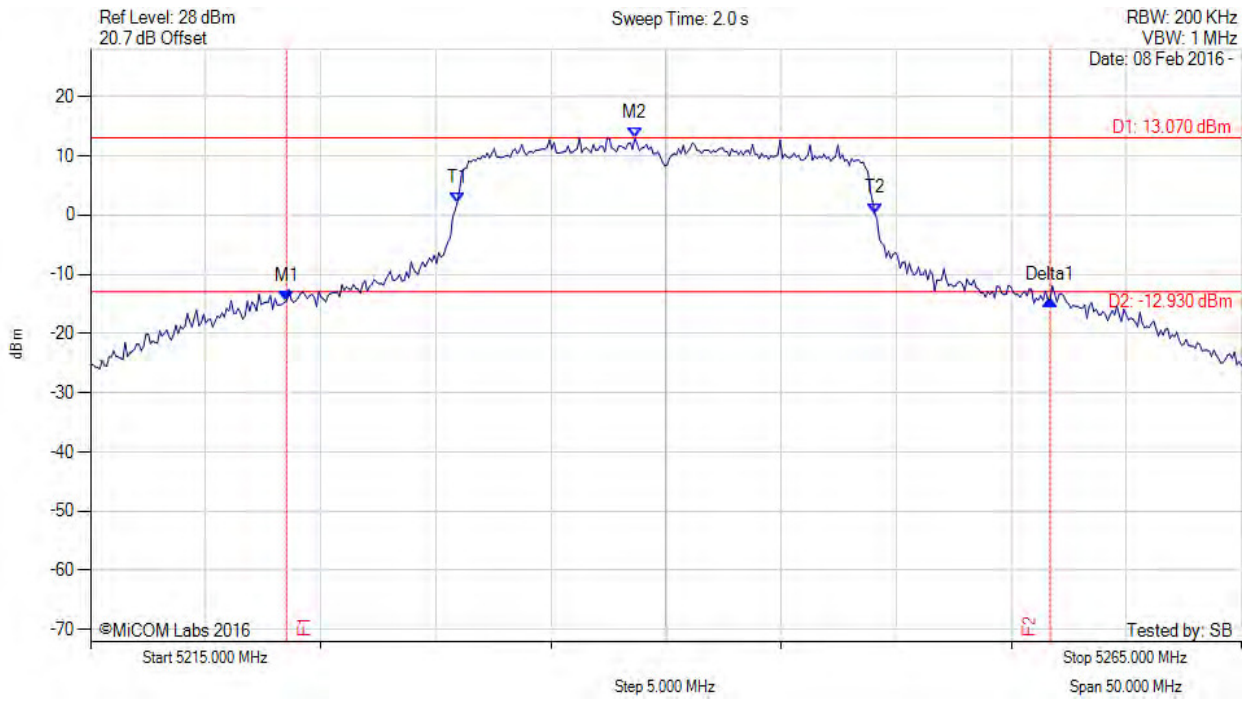
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.828 MHz : -13.143 dBm M2 : 5245.060 MHz : 13.223 dBm Delta1 : 22.345 MHz : 1.527 dB T1 : 5231.132 MHz : 7.722 dBm T2 : 5248.868 MHz : 5.466 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 22.345 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



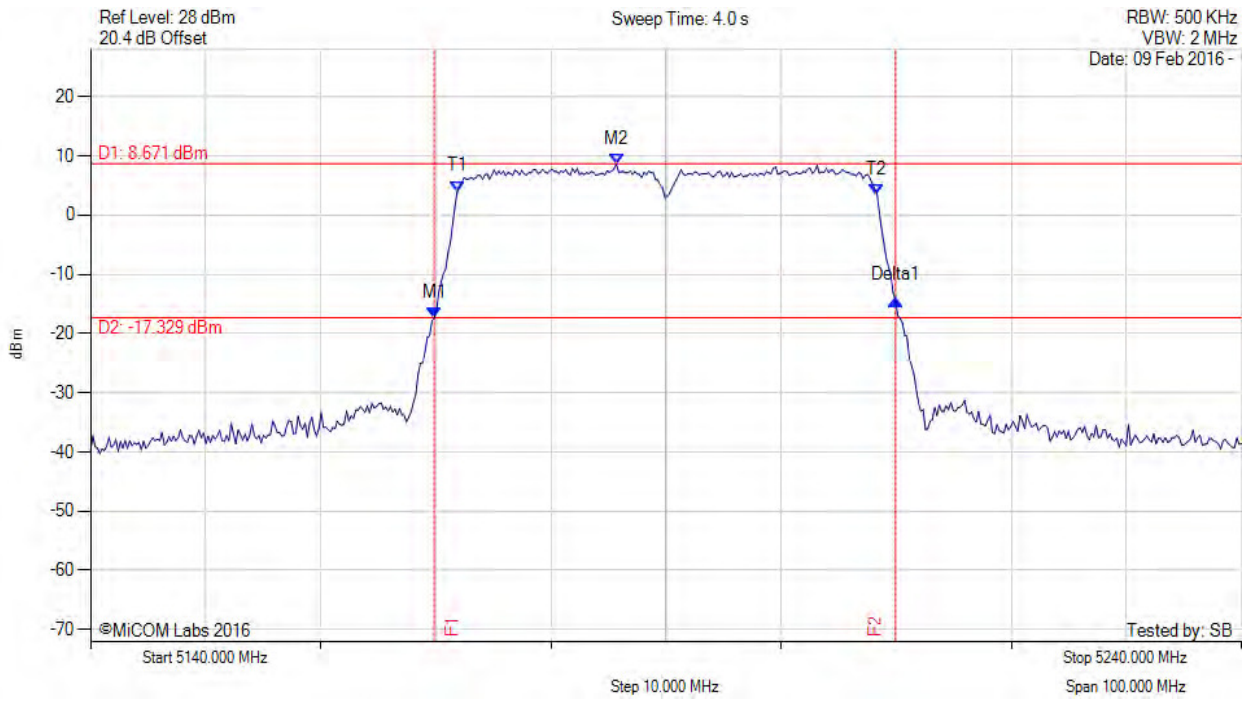
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5223.517 MHz : -14.495 dBm M2 : 5238.647 MHz : 13.070 dBm Delta1 : 33.166 MHz : 0.120 dB T1 : 5230.932 MHz : 2.108 dBm T2 : 5249.068 MHz : 0.264 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 33.166 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



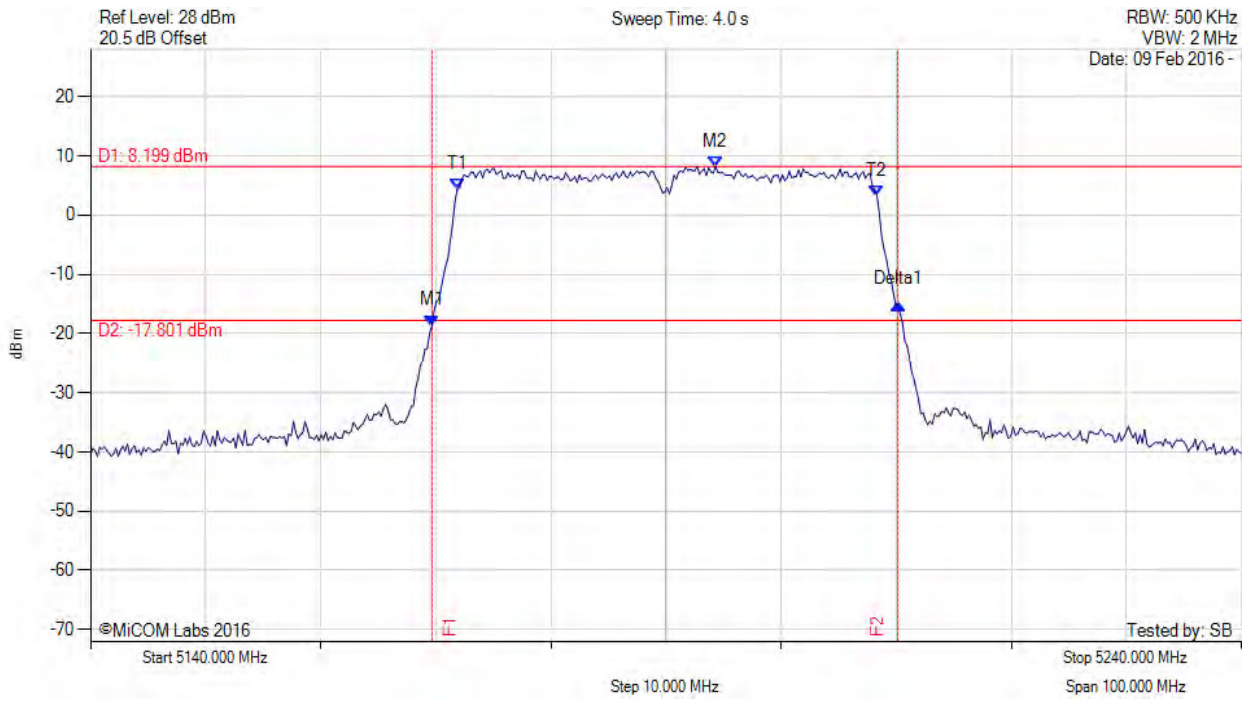
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.860 MHz : -17.348 dBm M2 : 5185.691 MHz : 8.671 dBm Delta1 : 40.080 MHz : 3.071 dB T1 : 5171.864 MHz : 4.010 dBm T2 : 5208.337 MHz : 3.497 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



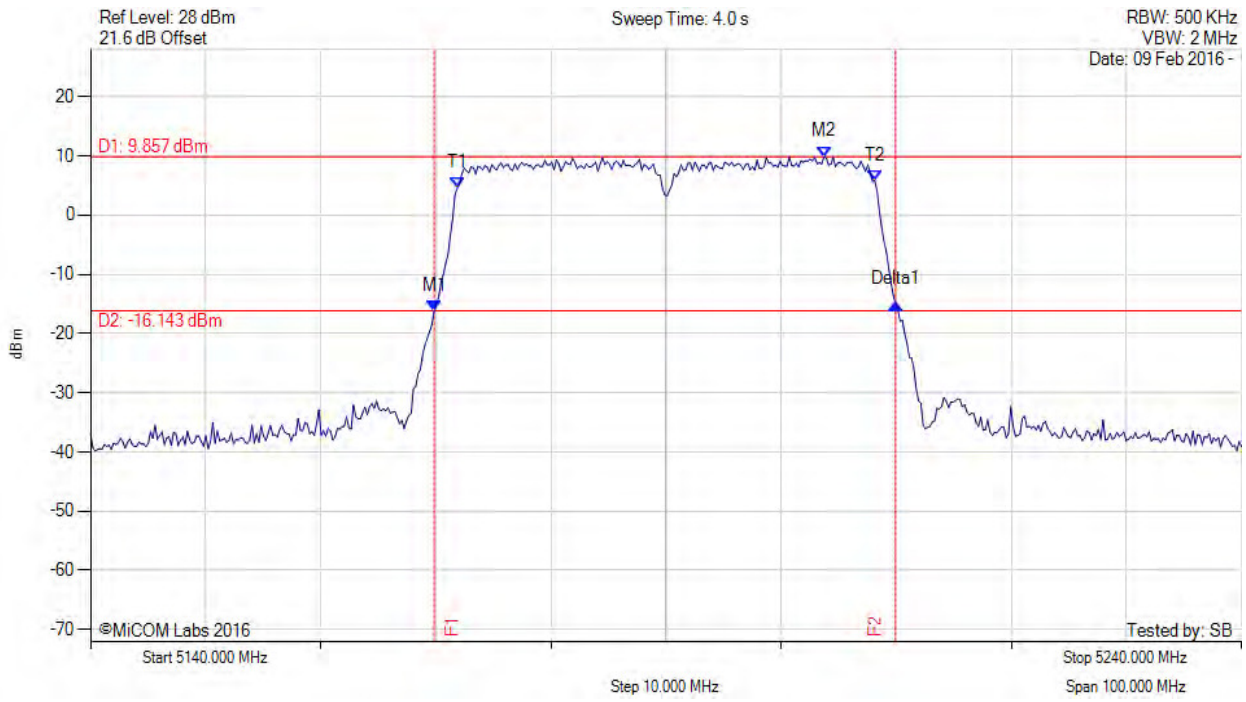
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.659 MHz : -18.662 dBm M2 : 5194.309 MHz : 8.199 dBm Delta1 : 40.481 MHz : 3.640 dB T1 : 5171.864 MHz : 4.468 dBm T2 : 5208.337 MHz : 3.262 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 40.481 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



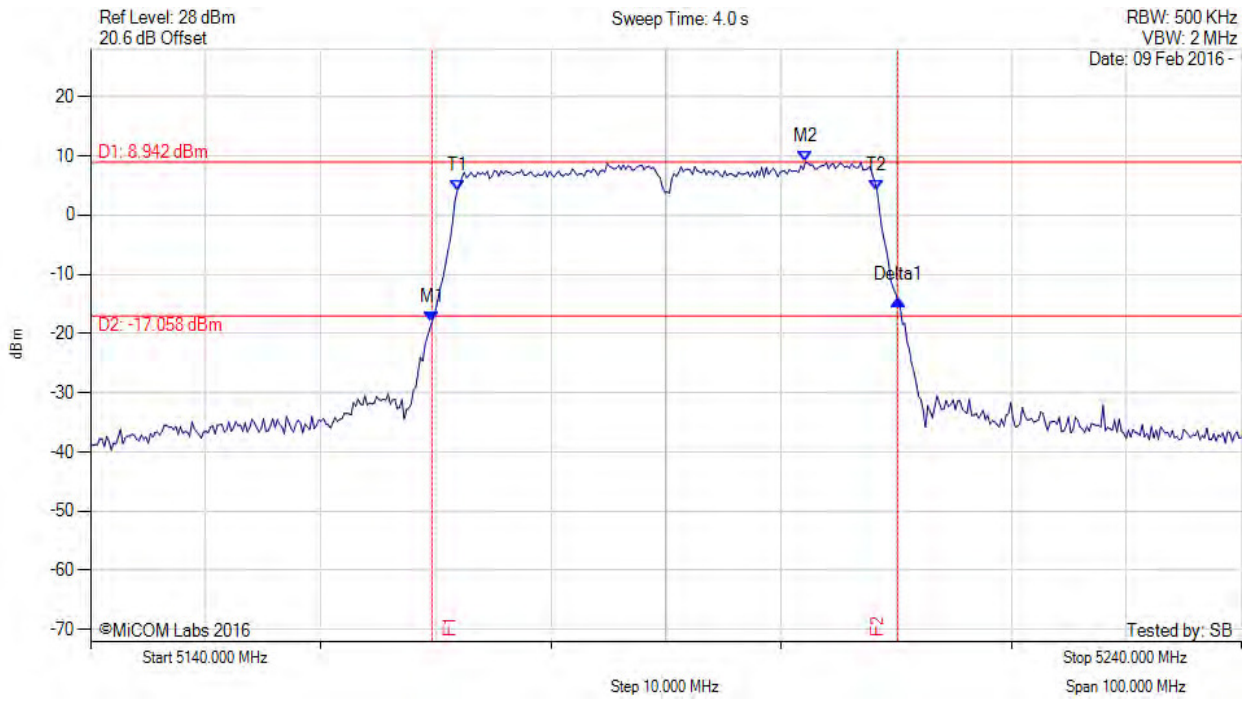
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.860 MHz : -16.228 dBm M2 : 5203.727 MHz : 9.857 dBm Delta1 : 40.080 MHz : 1.226 dB T1 : 5171.864 MHz : 4.618 dBm T2 : 5208.136 MHz : 5.808 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



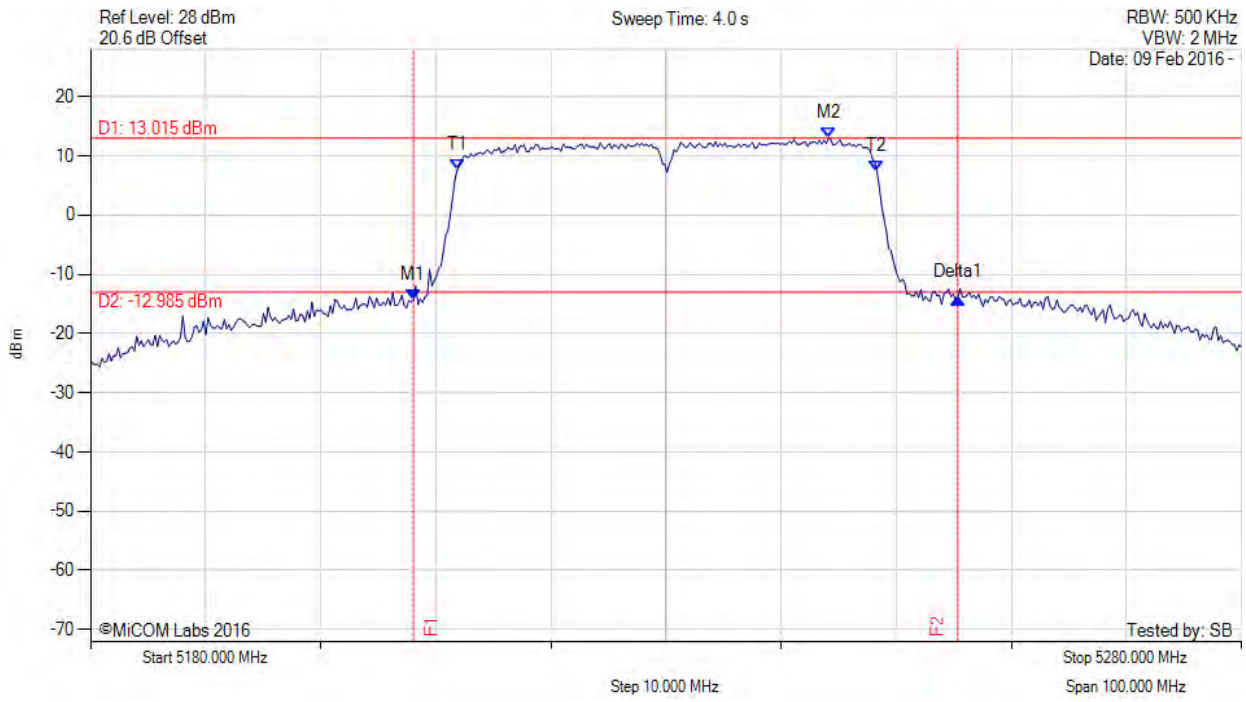
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.659 MHz : -18.020 dBm M2 : 5202.124 MHz : 8.942 dBm Delta1 : 40.481 MHz : 3.628 dB T1 : 5171.864 MHz : 4.185 dBm T2 : 5208.337 MHz : 4.099 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 40.481 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



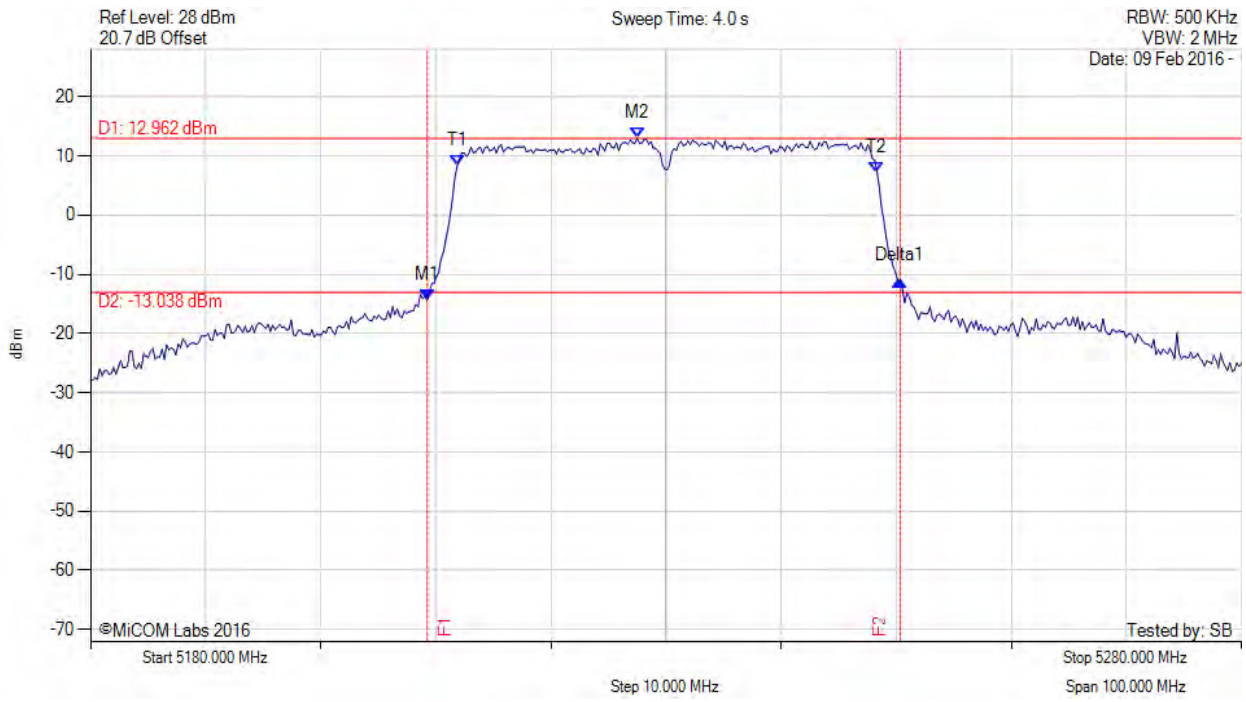
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5208.056 MHz : -14.304 dBm M2 : 5244.128 MHz : 13.015 dBm Delta1 : 47.295 MHz : 0.338 dB T1 : 5211.864 MHz : 7.604 dBm T2 : 5248.337 MHz : 7.315 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 47.295 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



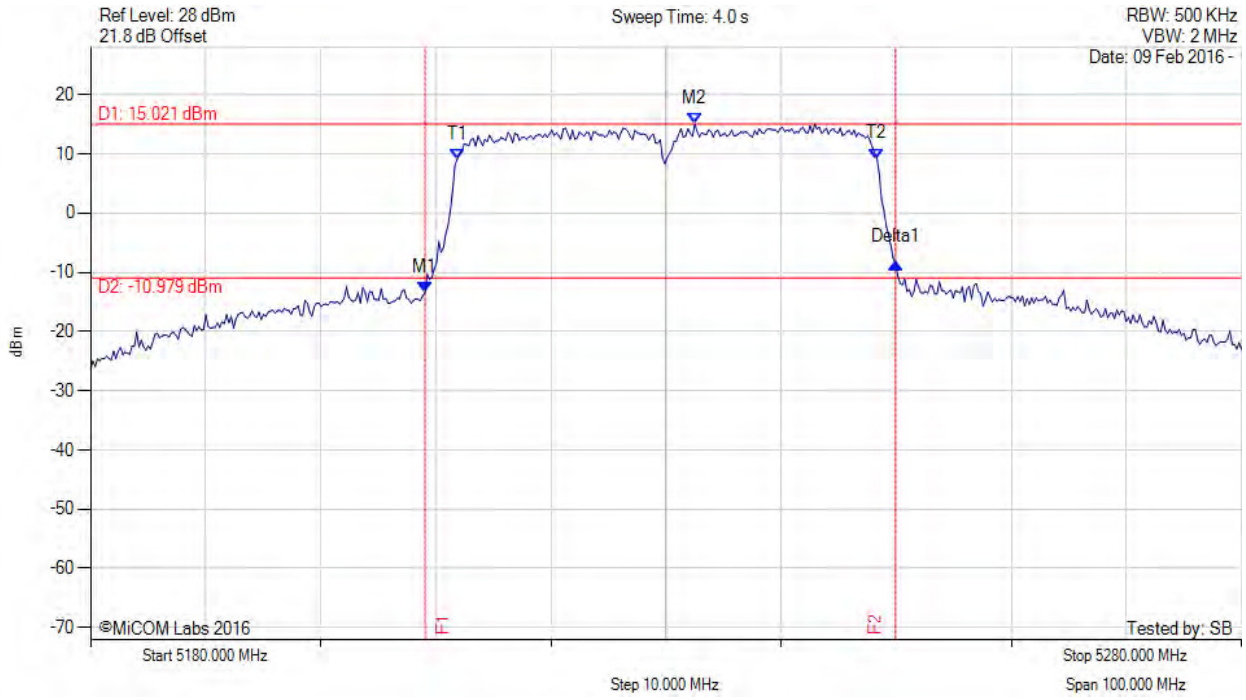
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5209.259 MHz : -14.310 dBm M2 : 5227.495 MHz : 12.962 dBm Delta1 : 41.082 MHz : 3.285 dB T1 : 5211.864 MHz : 8.326 dBm T2 : 5248.337 MHz : 7.270 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 41.082 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



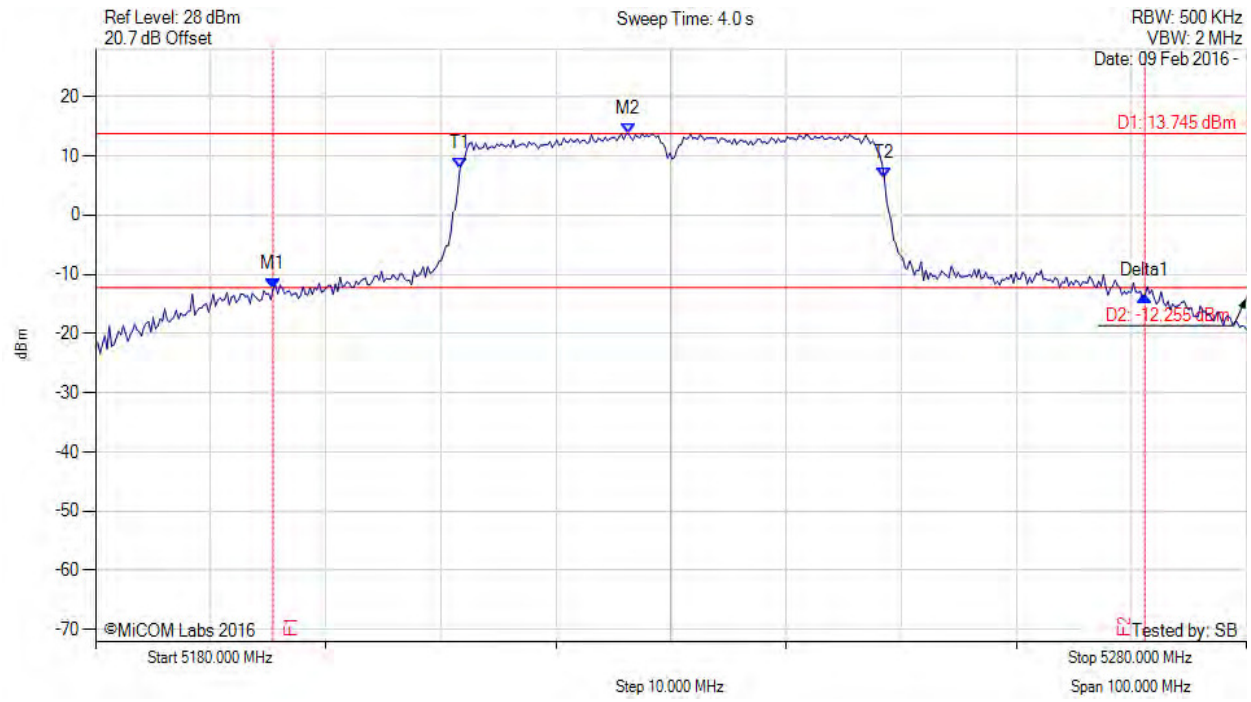
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5209.058 MHz : -13.472 dBm M2 : 5232.505 MHz : 15.021 dBm Delta1 : 40.882 MHz : 5.090 dB T1 : 5211.864 MHz : 9.129 dBm T2 : 5248.337 MHz : 9.159 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 40.882 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



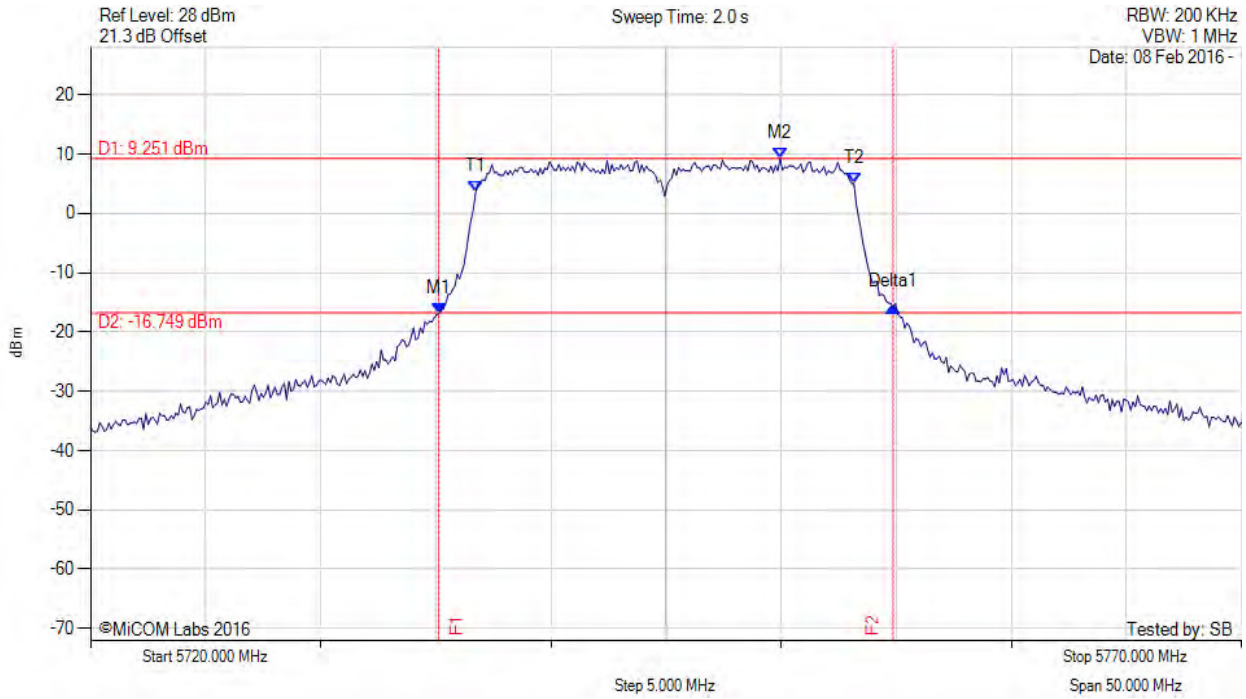
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5195.431 MHz : -12.378 dBm M2 : 5226.293 MHz : 13.745 dBm Delta1 : 75.752 MHz : -1.190 dB T1 : 5211.663 MHz : 7.819 dBm T2 : 5248.537 MHz : 6.196 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 75.752 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



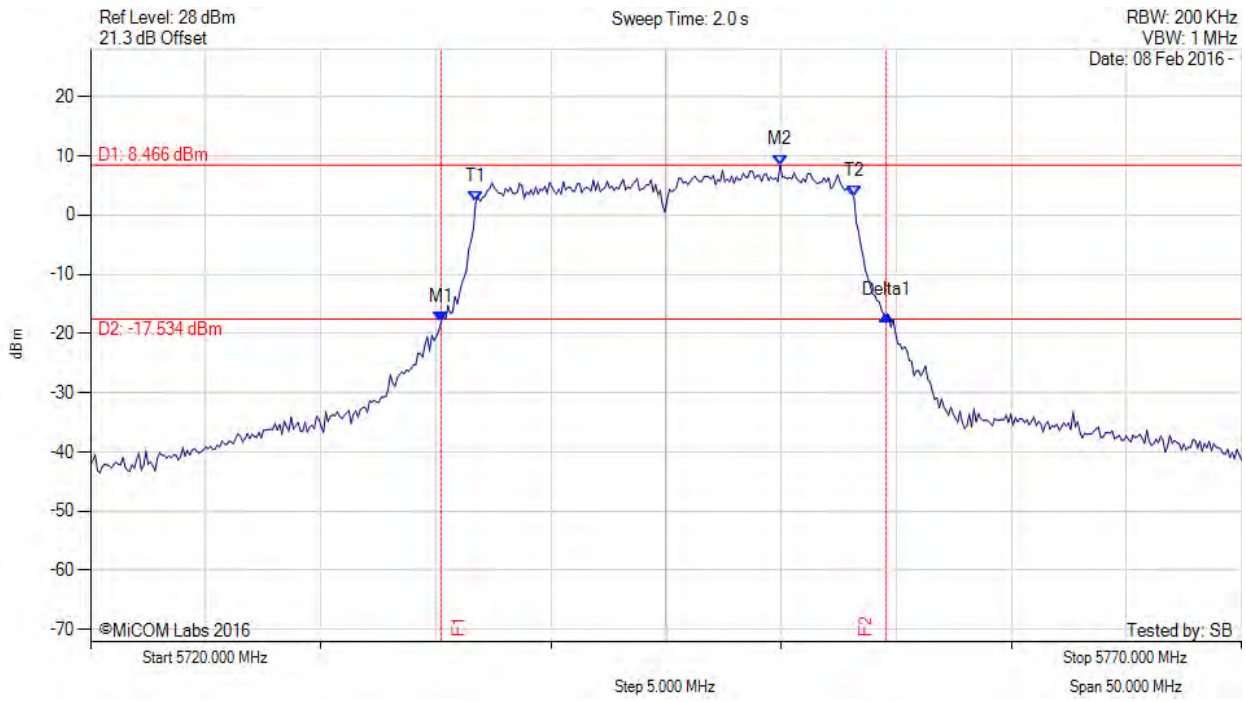
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5735.130 MHz : -16.883 dBm M2 : 5749.960 MHz : 9.251 dBm Delta1 : 19.739 MHz : 1.053 dB T1 : 5736.733 MHz : 3.719 dBm T2 : 5753.166 MHz : 5.004 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



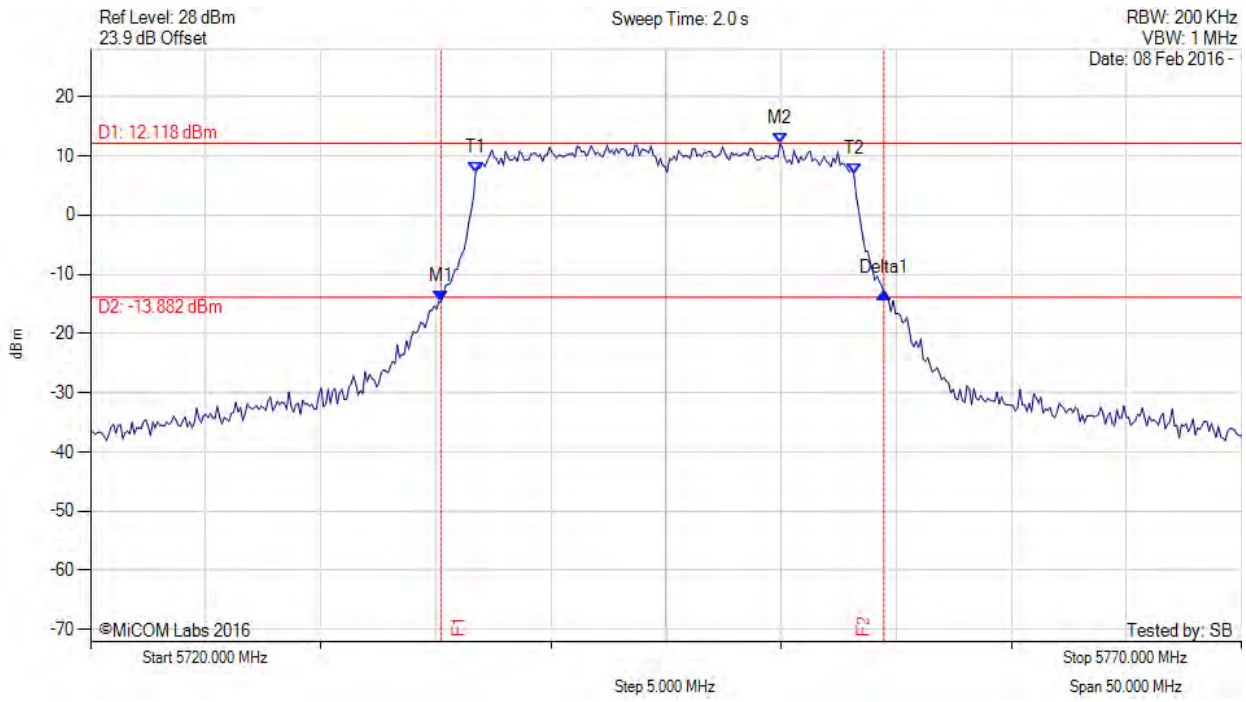
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5735.230 MHz : -18.105 dBm M2 : 5749.960 MHz : 8.466 dBm Delta1 : 19.339 MHz : 1.108 dB T1 : 5736.733 MHz : 2.171 dBm T2 : 5753.166 MHz : 3.131 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.339 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



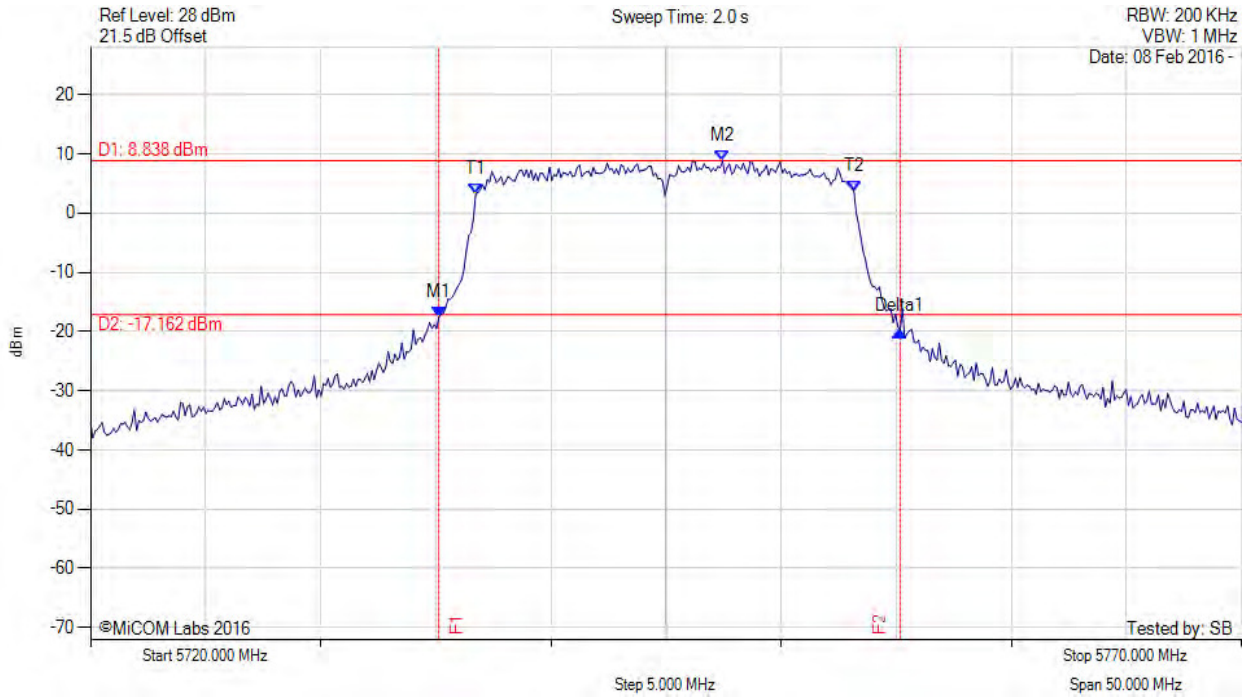
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5735.230 MHz : -14.650 dBm M2 : 5749.960 MHz : 12.118 dBm Delta1 : 19.238 MHz : 1.438 dB T1 : 5736.733 MHz : 7.264 dBm T2 : 5753.166 MHz : 6.863 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



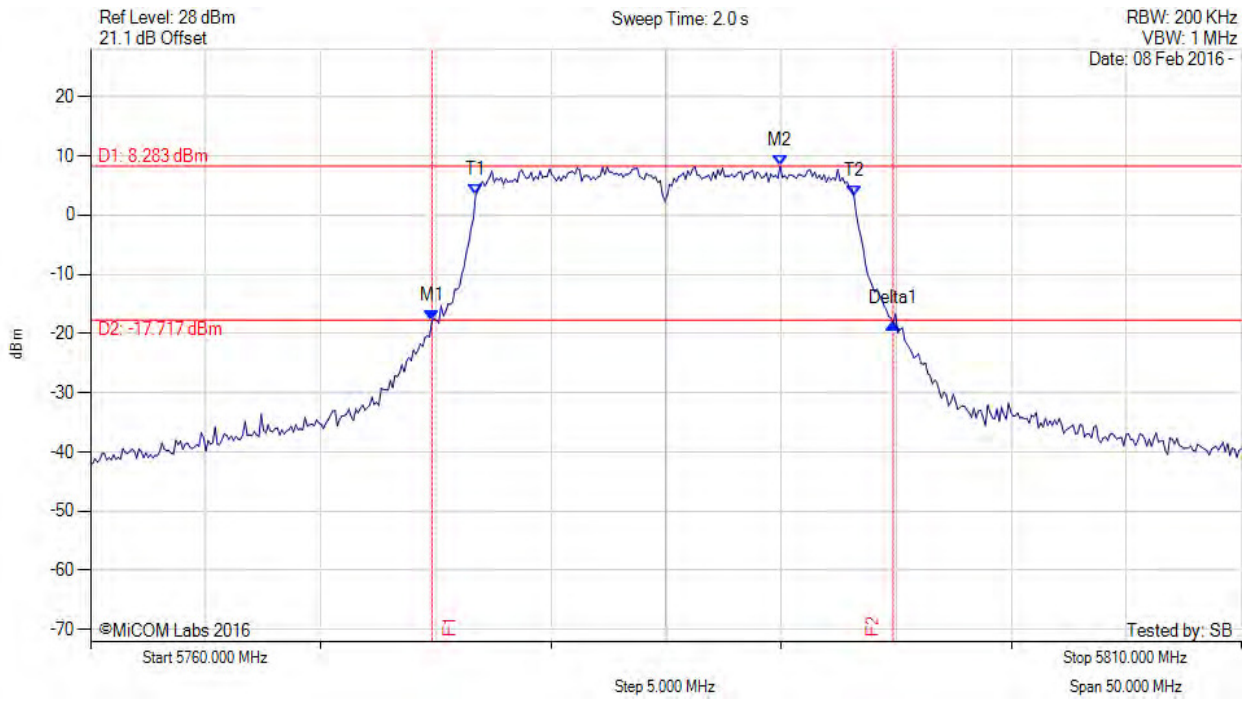
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5735.130 MHz : -17.696 dBm M2 : 5747.455 MHz : 8.838 dBm Delta1 : 20.040 MHz : -2.241 dB T1 : 5736.733 MHz : 3.178 dBm T2 : 5753.166 MHz : 3.628 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



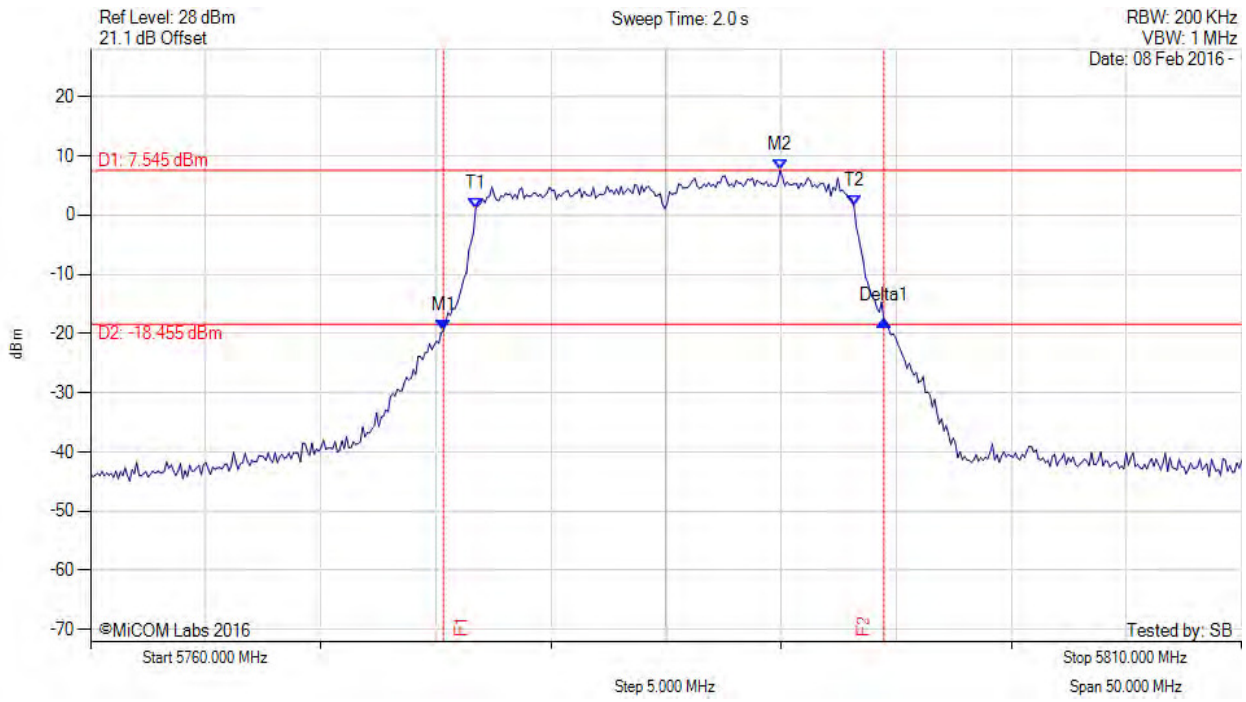
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.830 MHz : -17.916 dBm M2 : 5789.960 MHz : 8.283 dBm Delta1 : 20.040 MHz : -0.376 dB T1 : 5776.733 MHz : 3.428 dBm T2 : 5793.166 MHz : 3.205 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



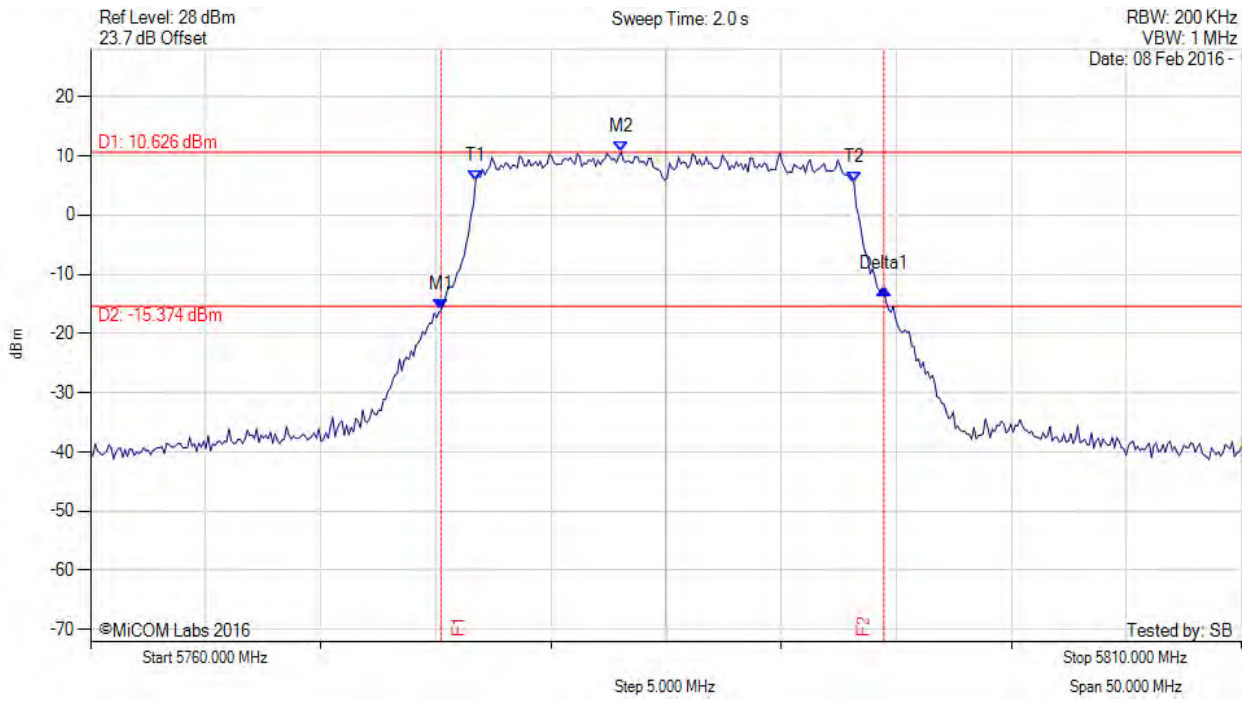
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5775.331 MHz : -19.549 dBm M2 : 5789.960 MHz : 7.545 dBm Delta1 : 19.138 MHz : 1.633 dB T1 : 5776.733 MHz : 1.100 dBm T2 : 5793.166 MHz : 1.602 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.138 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



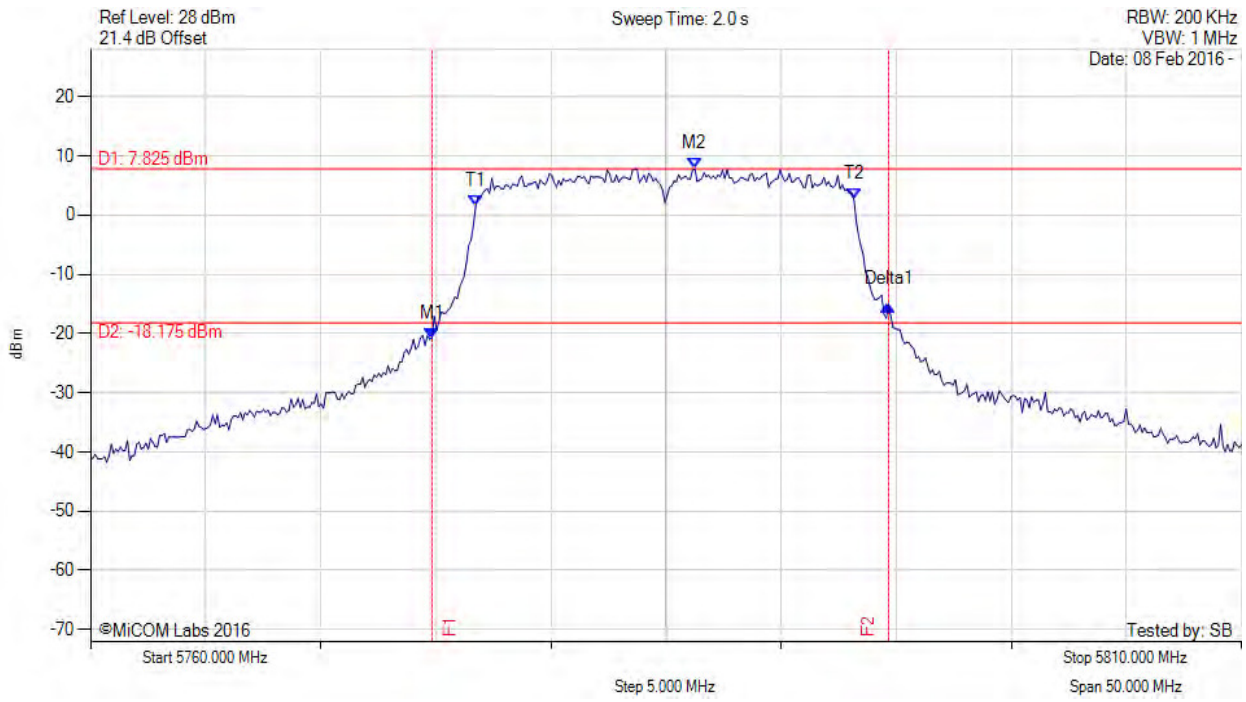
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5775.230 MHz : -16.043 dBm M2 : 5783.046 MHz : 10.626 dBm Delta1 : 19.238 MHz : 3.622 dB T1 : 5776.733 MHz : 5.796 dBm T2 : 5793.166 MHz : 5.566 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



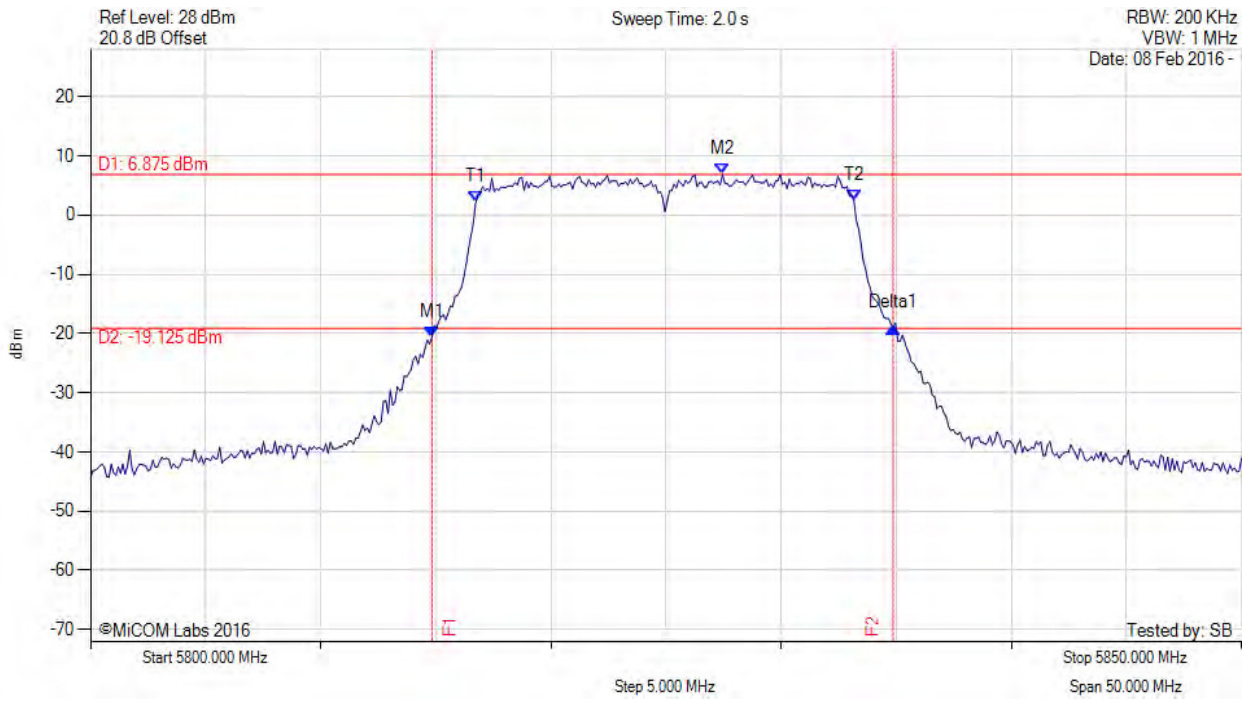
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.830 MHz : -20.794 dBm M2 : 5786.253 MHz : 7.825 dBm Delta1 : 19.840 MHz : 5.652 dB T1 : 5776.733 MHz : 1.484 dBm T2 : 5793.166 MHz : 2.666 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



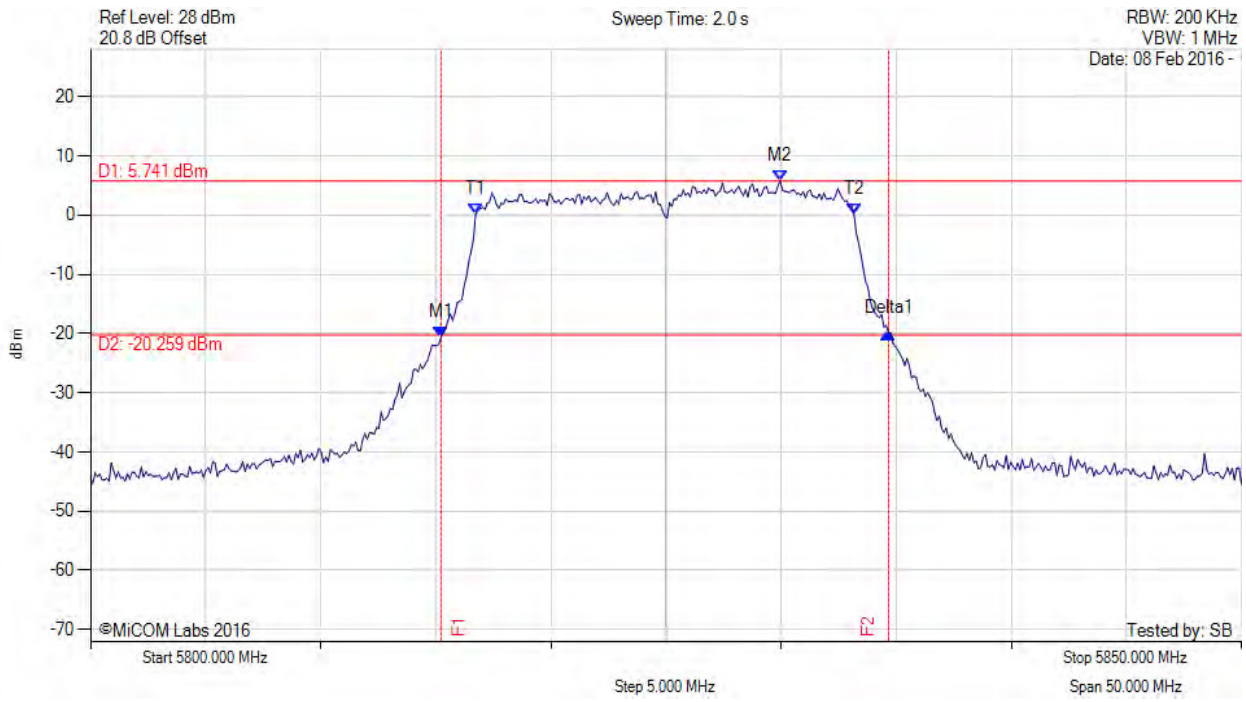
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5814.830 MHz : -20.574 dBm M2 : 5827.455 MHz : 6.875 dBm Delta1 : 20.040 MHz : 1.641 dB T1 : 5816.733 MHz : 2.167 dBm T2 : 5833.166 MHz : 2.454 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



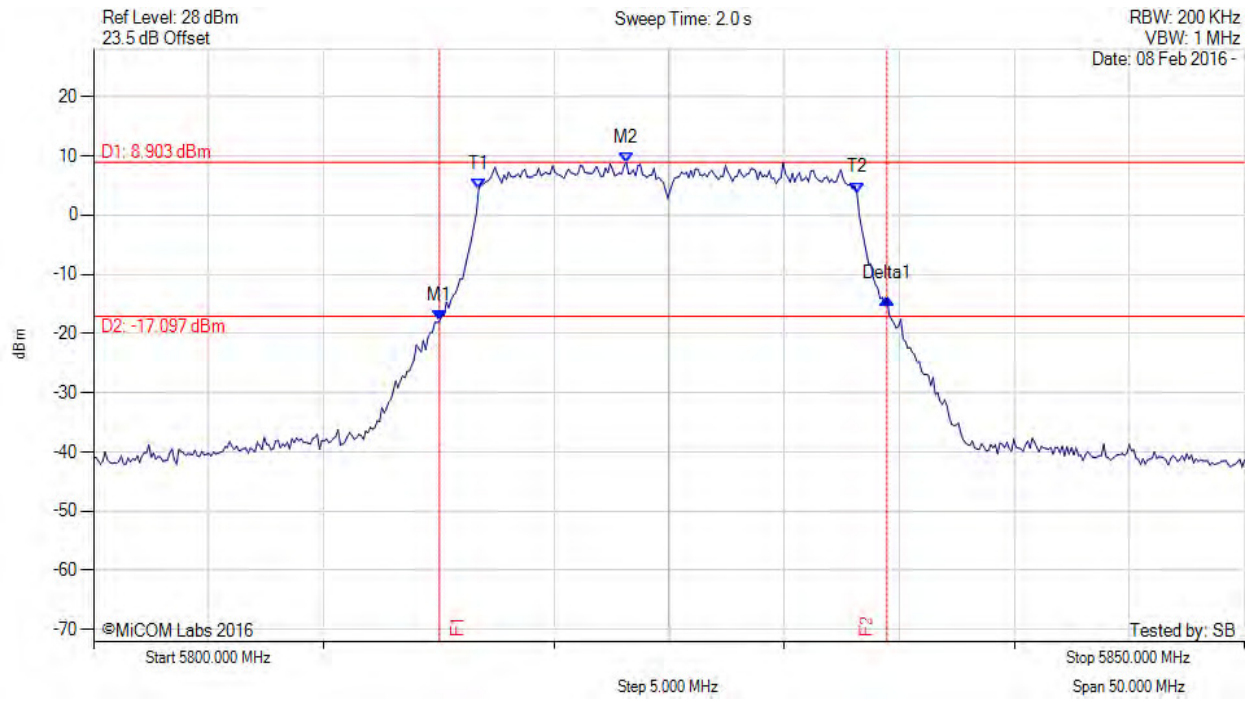
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5815.230 MHz : -20.554 dBm M2 : 5829.960 MHz : 5.741 dBm Delta1 : 19.439 MHz : 0.714 dB T1 : 5816.733 MHz : 0.162 dBm T2 : 5833.166 MHz : 0.227 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



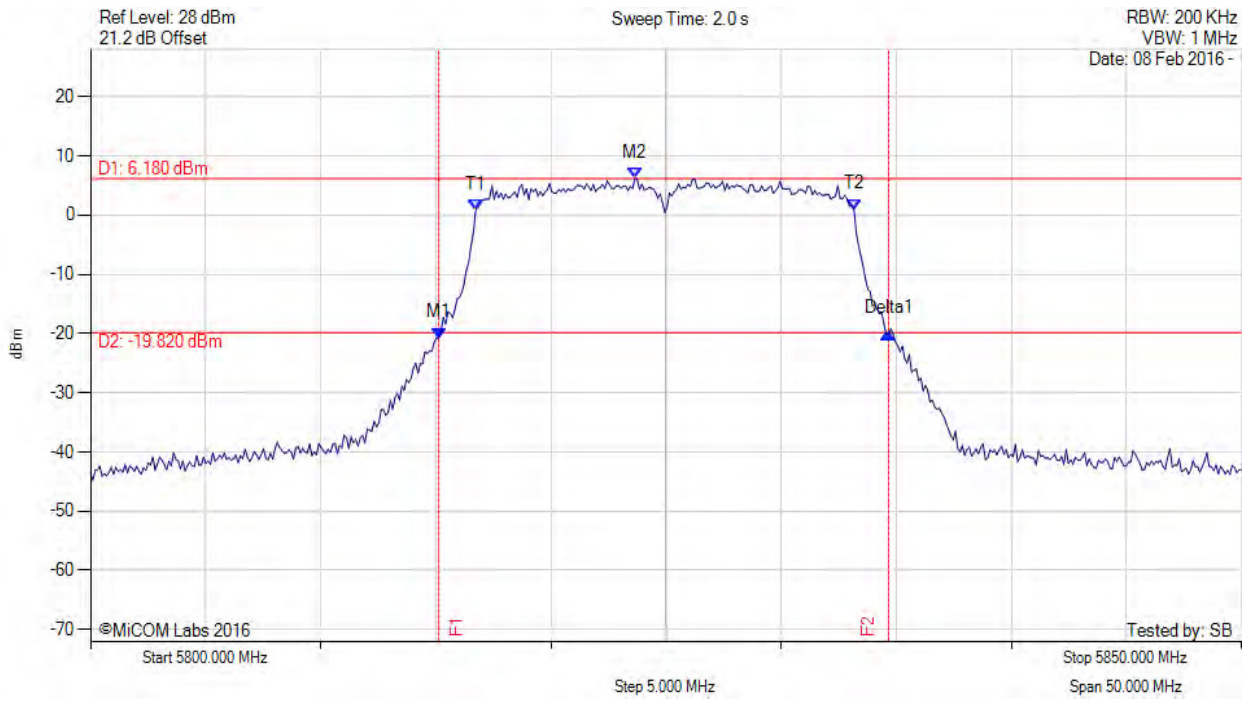
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5815.030 MHz : -17.930 dBm M2 : 5823.146 MHz : 8.903 dBm Delta1 : 19.439 MHz : 3.901 dB T1 : 5816.733 MHz : 4.394 dBm T2 : 5833.166 MHz : 3.774 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



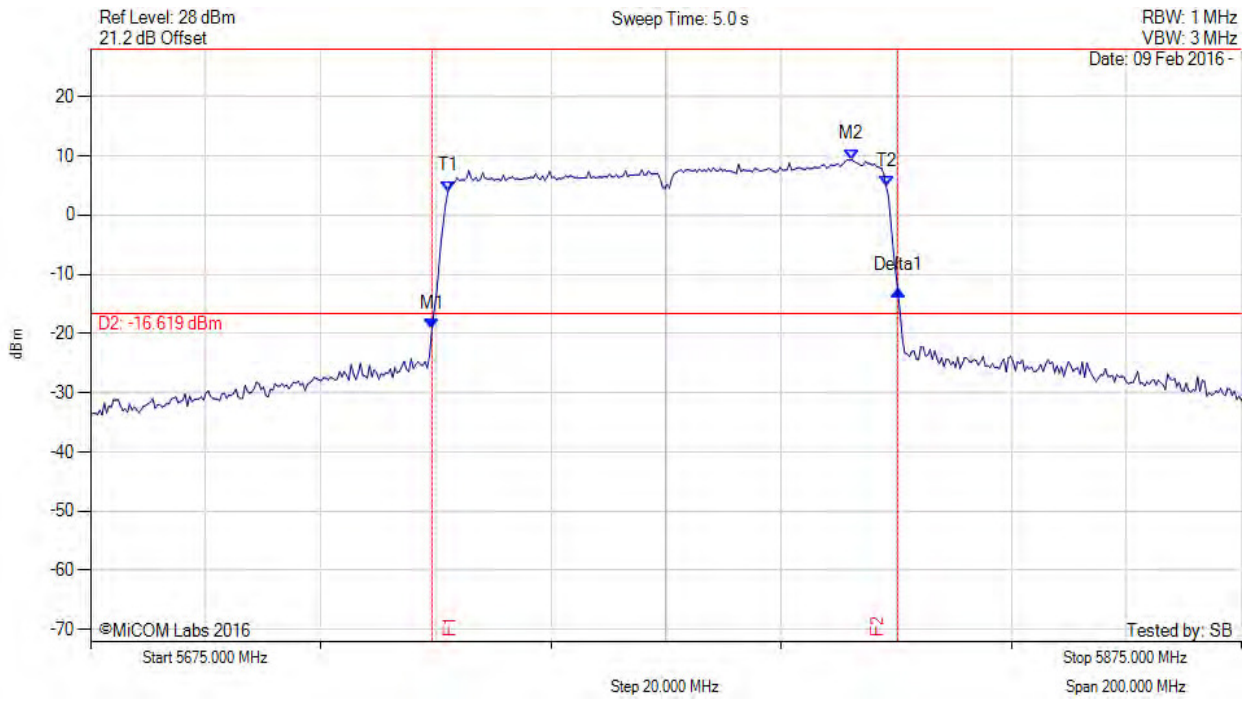
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5815.130 MHz : -20.745 dBm M2 : 5823.647 MHz : 6.180 dBm Delta1 : 19.539 MHz : 0.720 dB T1 : 5816.733 MHz : 0.833 dBm T2 : 5833.166 MHz : 0.974 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.539 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



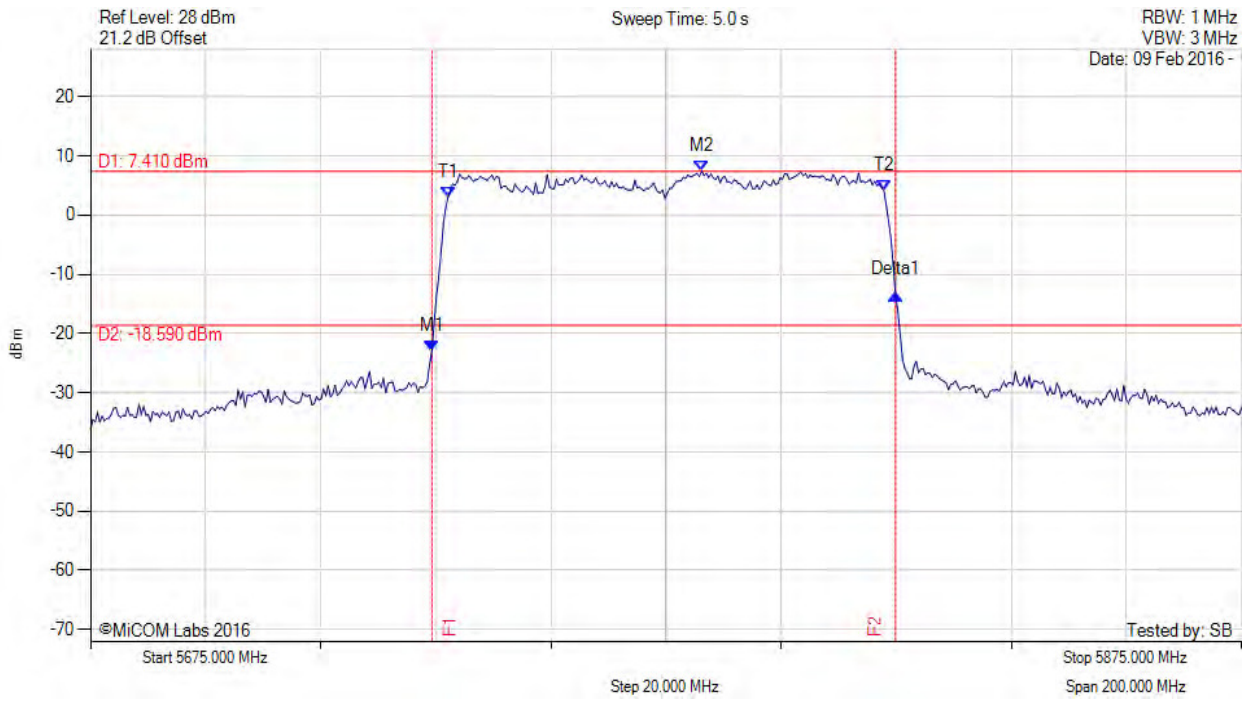
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -19.299 dBm M2 : 5807.265 MHz : 9.381 dBm Delta1 : 80.962 MHz : 6.614 dB T1 : 5737.124 MHz : 4.010 dBm T2 : 5813.277 MHz : 4.809 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



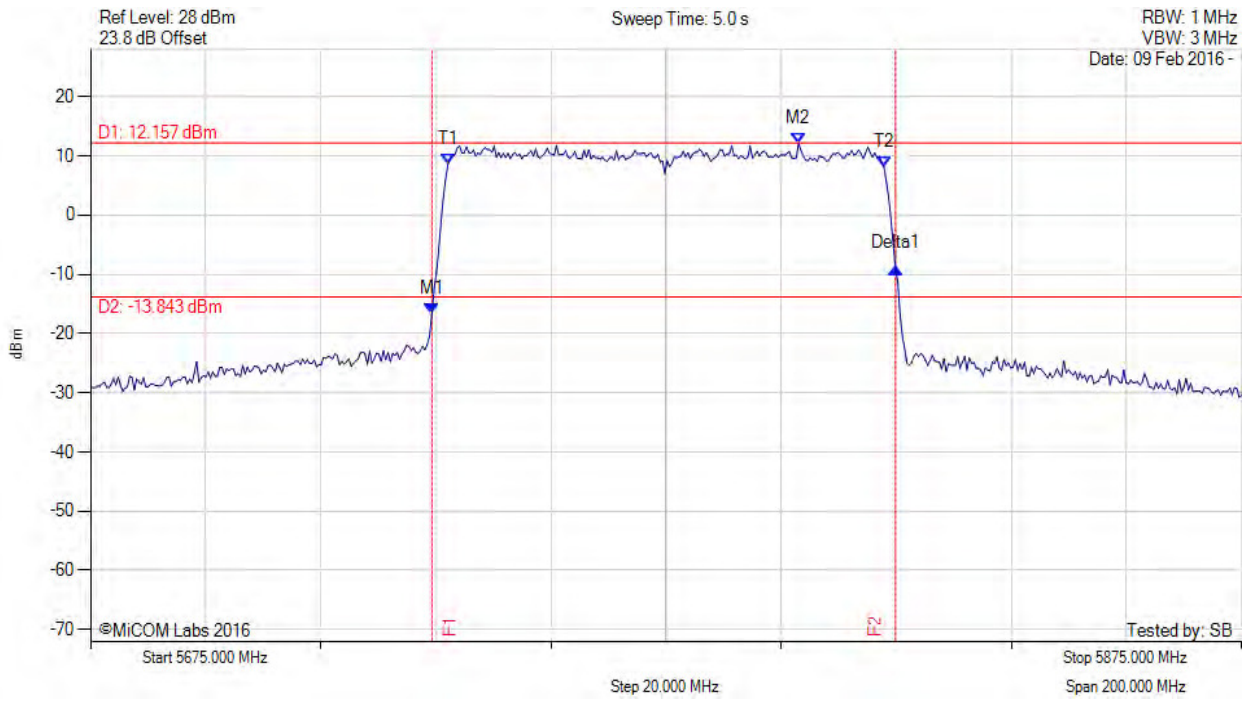
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -23.014 dBm M2 : 5781.212 MHz : 7.410 dBm Delta1 : 80.561 MHz : 9.530 dB T1 : 5737.124 MHz : 3.036 dBm T2 : 5812.876 MHz : 4.124 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



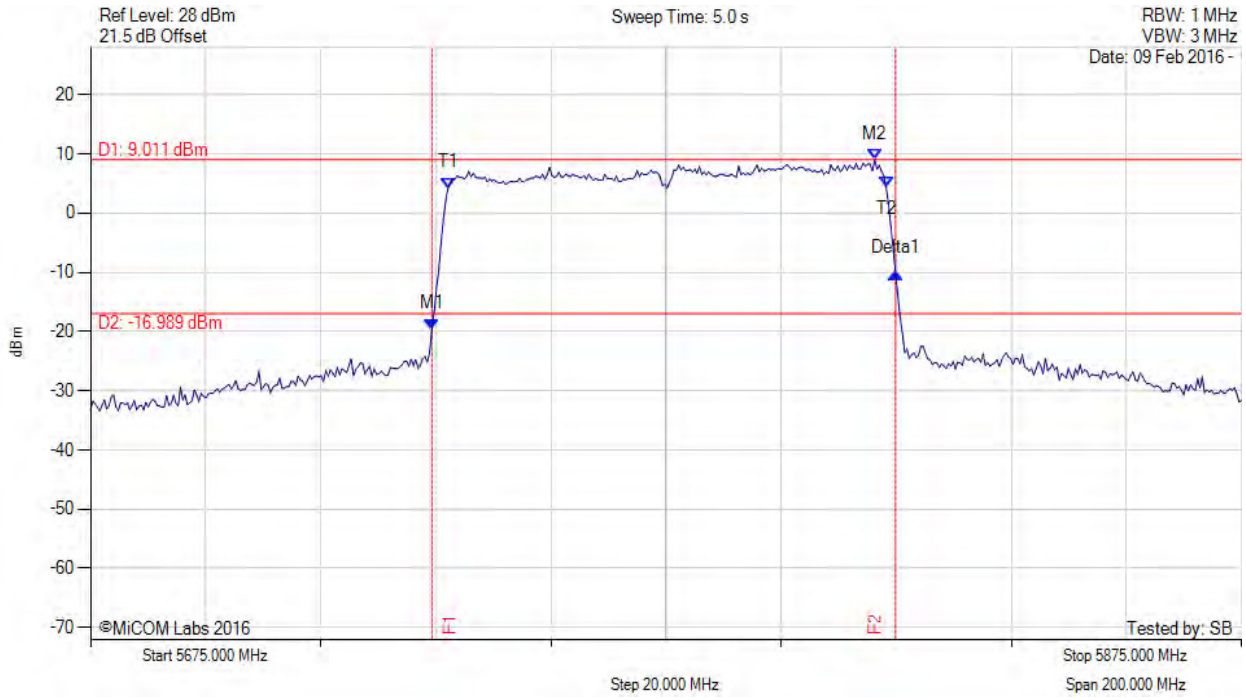
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -16.645 dBm M2 : 5798.046 MHz : 12.157 dBm Delta1 : 80.561 MHz : 7.661 dB T1 : 5737.124 MHz : 8.647 dBm T2 : 5812.876 MHz : 8.118 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



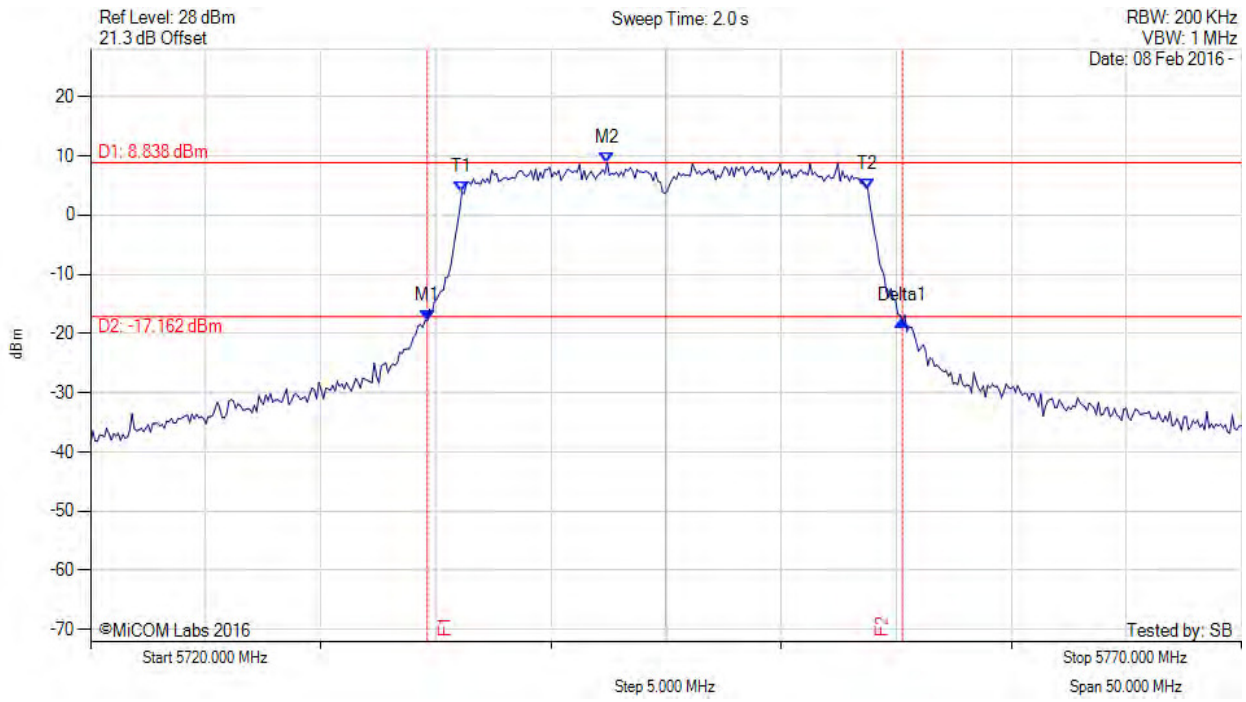
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -19.584 dBm M2 : 5811.273 MHz : 9.011 dBm Delta1 : 80.561 MHz : 9.465 dB T1 : 5737.124 MHz : 4.258 dBm T2 : 5813.277 MHz : 4.299 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



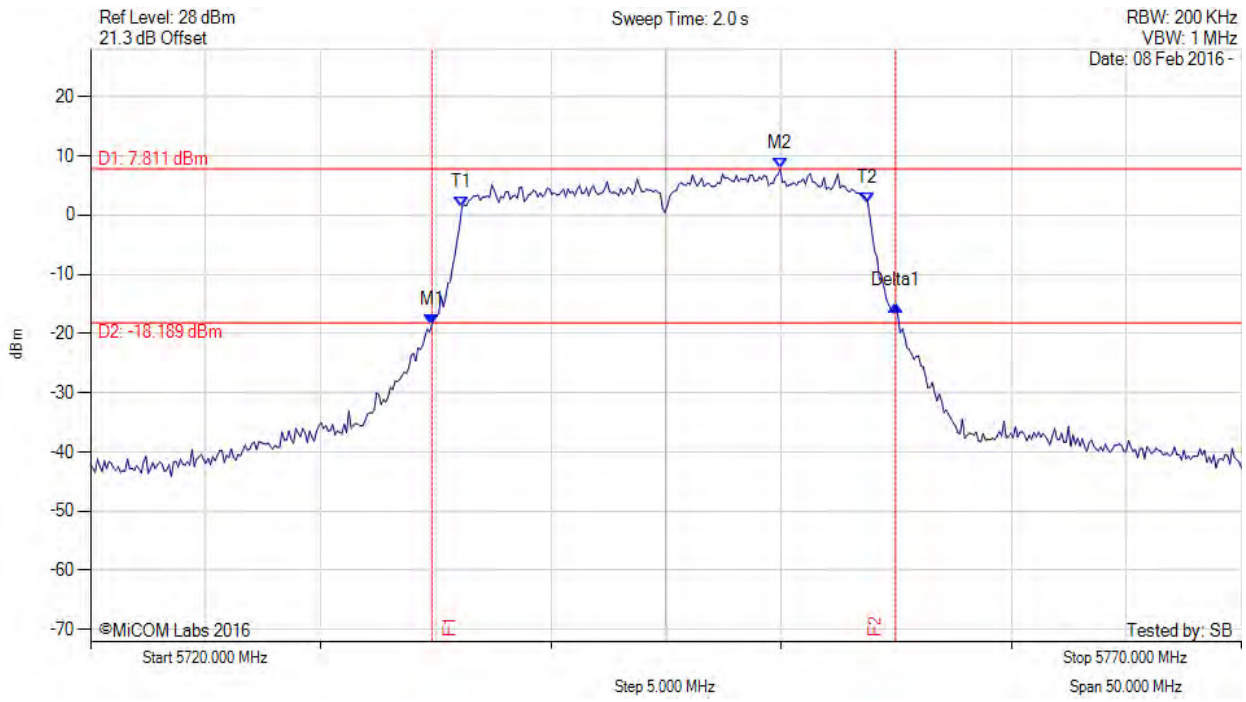
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.629 MHz : -17.830 dBm M2 : 5742.445 MHz : 8.838 dBm Delta1 : 20.641 MHz : -0.094 dB T1 : 5736.132 MHz : 3.861 dBm T2 : 5753.768 MHz : 4.398 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.641 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



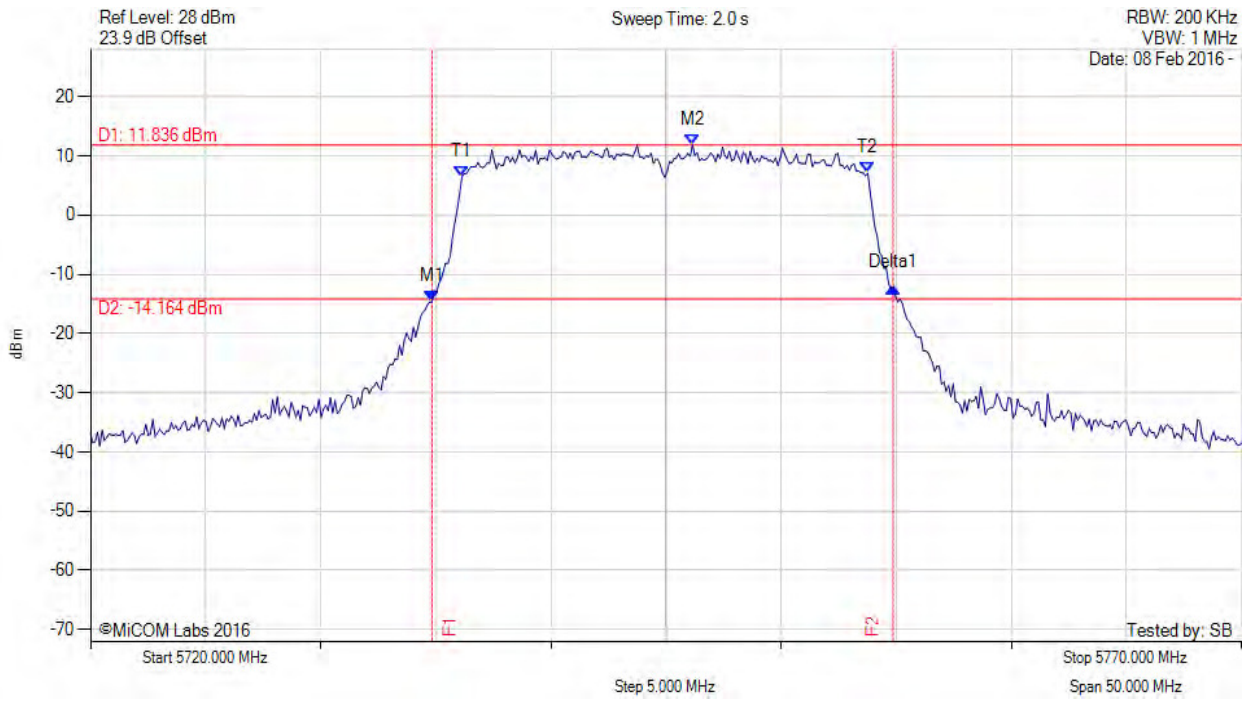
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.830 MHz : -18.493 dBm M2 : 5749.960 MHz : 7.811 dBm Delta1 : 20.140 MHz : 3.173 dB T1 : 5736.132 MHz : 1.309 dBm T2 : 5753.768 MHz : 2.112 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.140 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



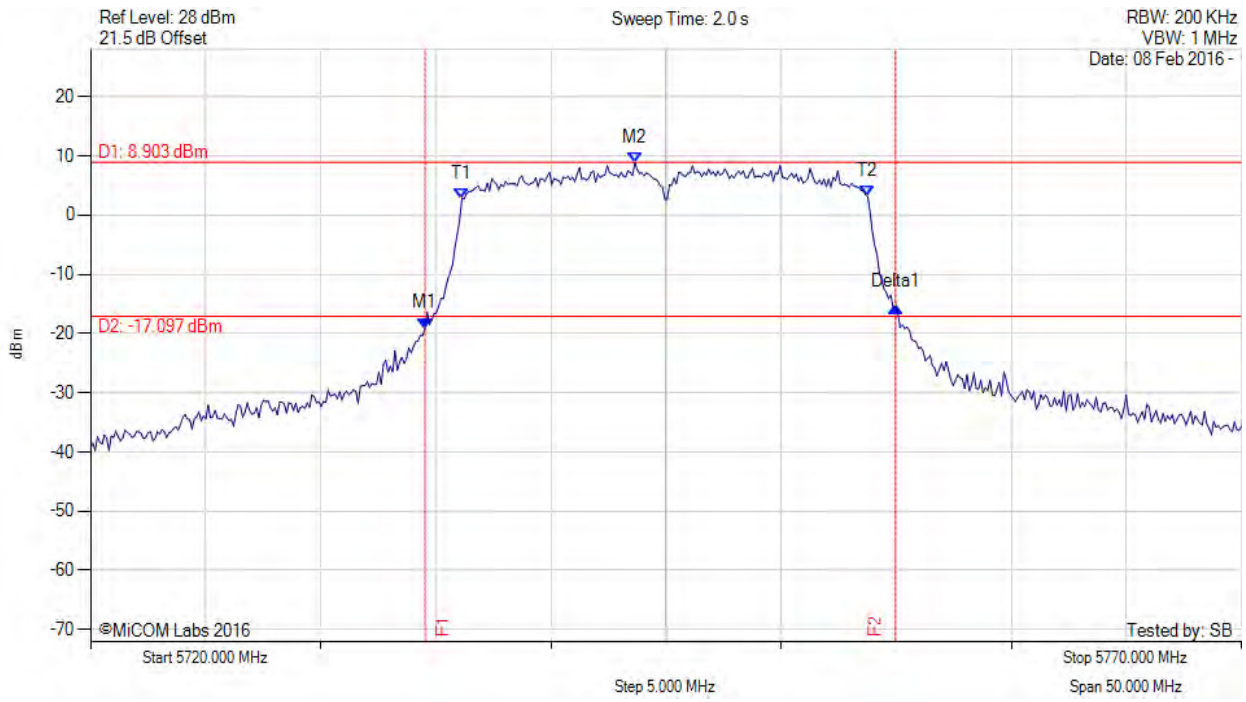
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.830 MHz : -14.640 dBm M2 : 5746.152 MHz : 11.836 dBm Delta1 : 20.040 MHz : 2.434 dB T1 : 5736.132 MHz : 6.422 dBm T2 : 5753.768 MHz : 7.073 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



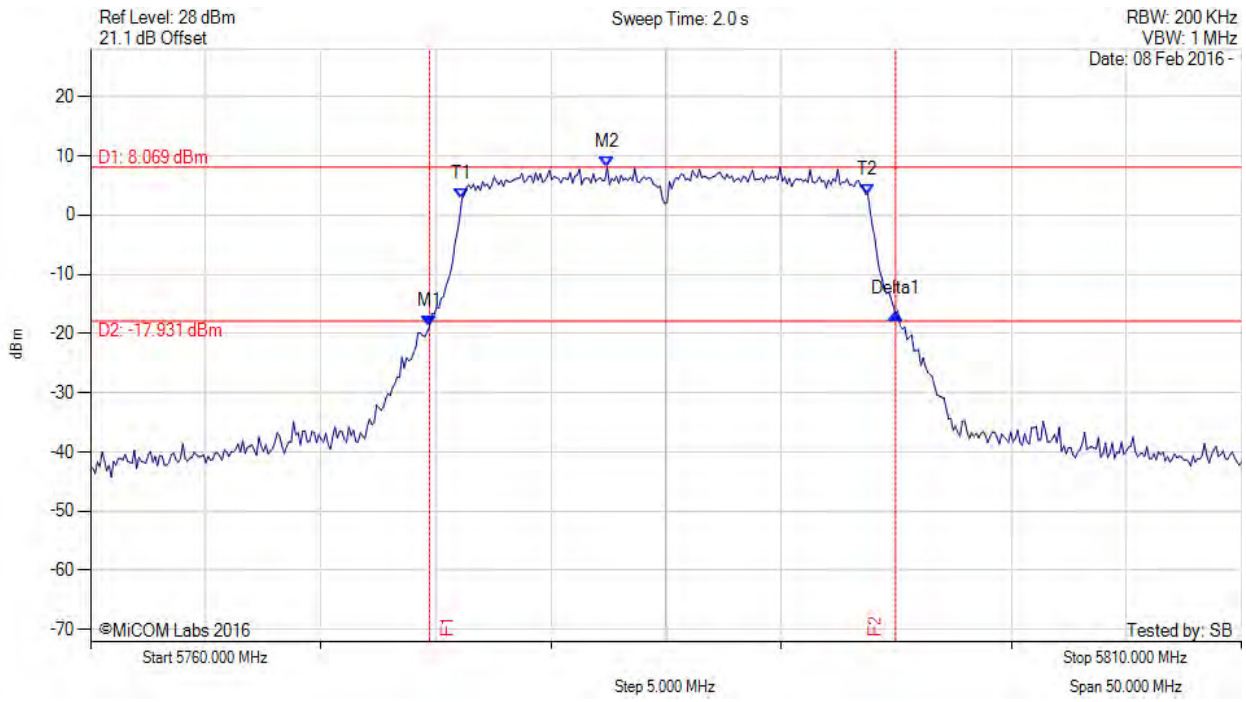
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.529 MHz : -19.116 dBm M2 : 5743.647 MHz : 8.903 dBm Delta1 : 20.441 MHz : 3.669 dB T1 : 5736.132 MHz : 2.727 dBm T2 : 5753.768 MHz : 3.099 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.441 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



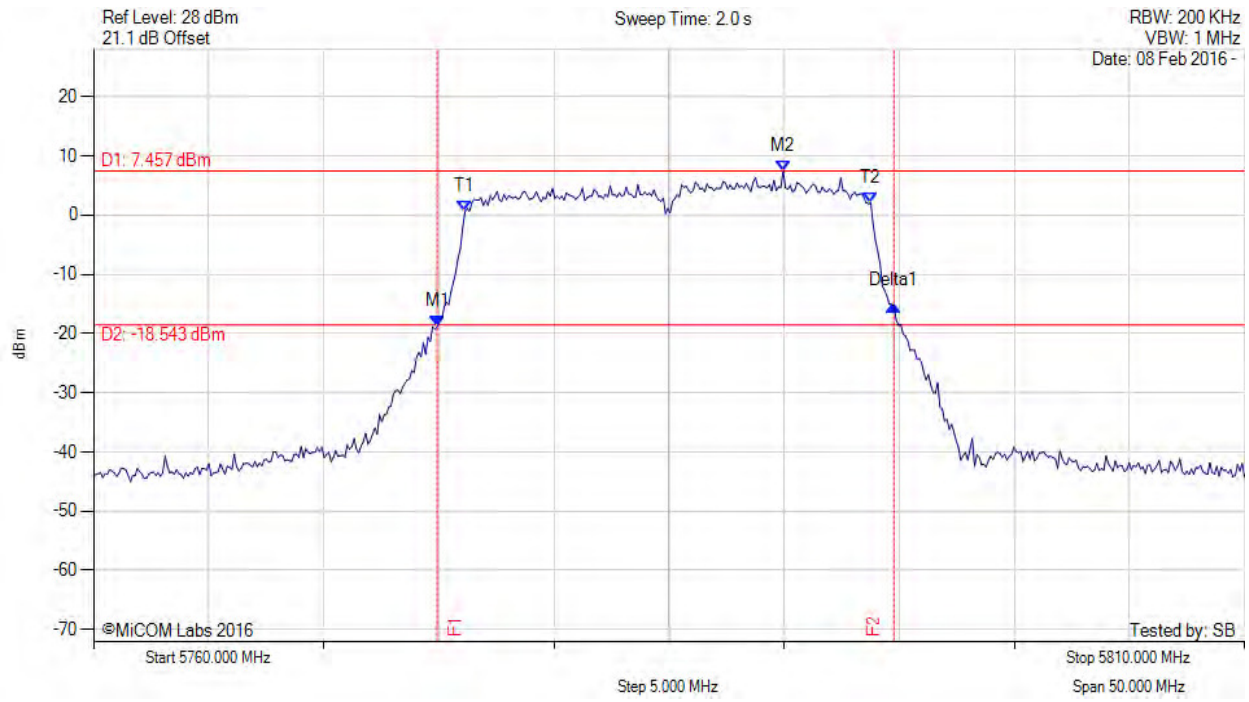
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.729 MHz : -18.750 dBm M2 : 5782.445 MHz : 8.069 dBm Delta1 : 20.240 MHz : 2.137 dB T1 : 5776.132 MHz : 2.708 dBm T2 : 5793.768 MHz : 3.528 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.240 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



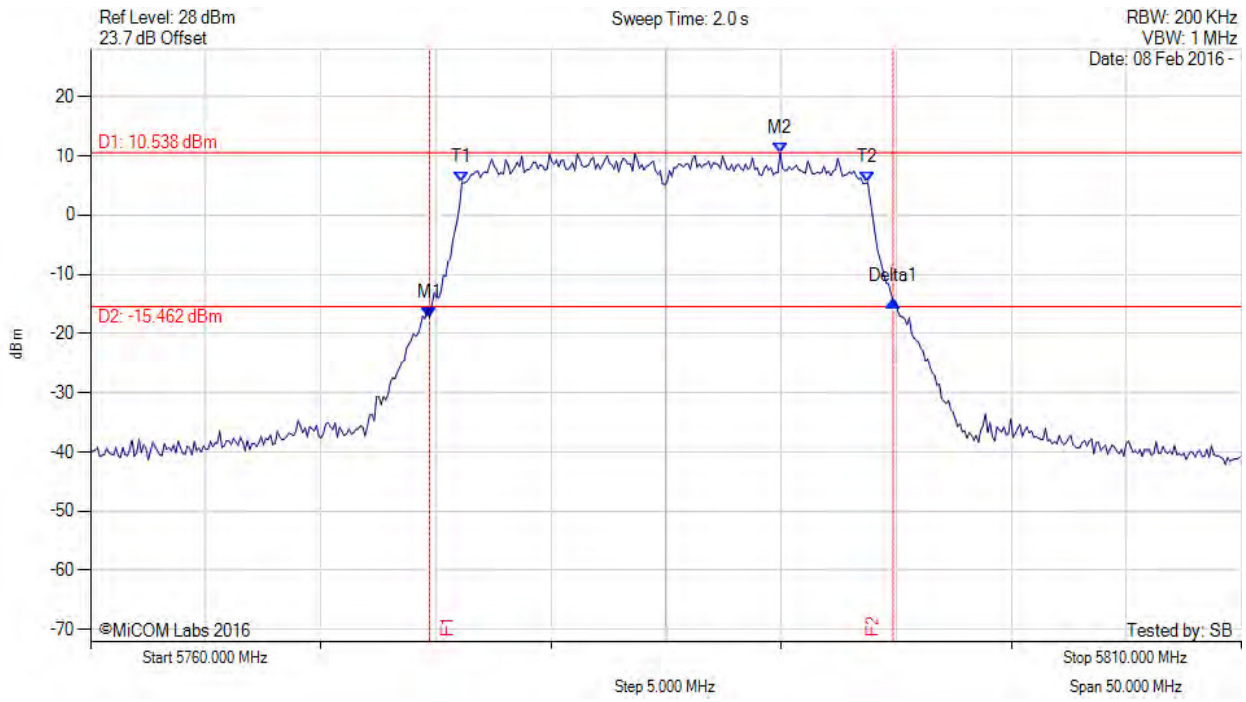
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.930 MHz : -18.835 dBm M2 : 5789.960 MHz : 7.457 dBm Delta1 : 19.840 MHz : 3.583 dB T1 : 5776.132 MHz : 0.538 dBm T2 : 5793.768 MHz : 2.023 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



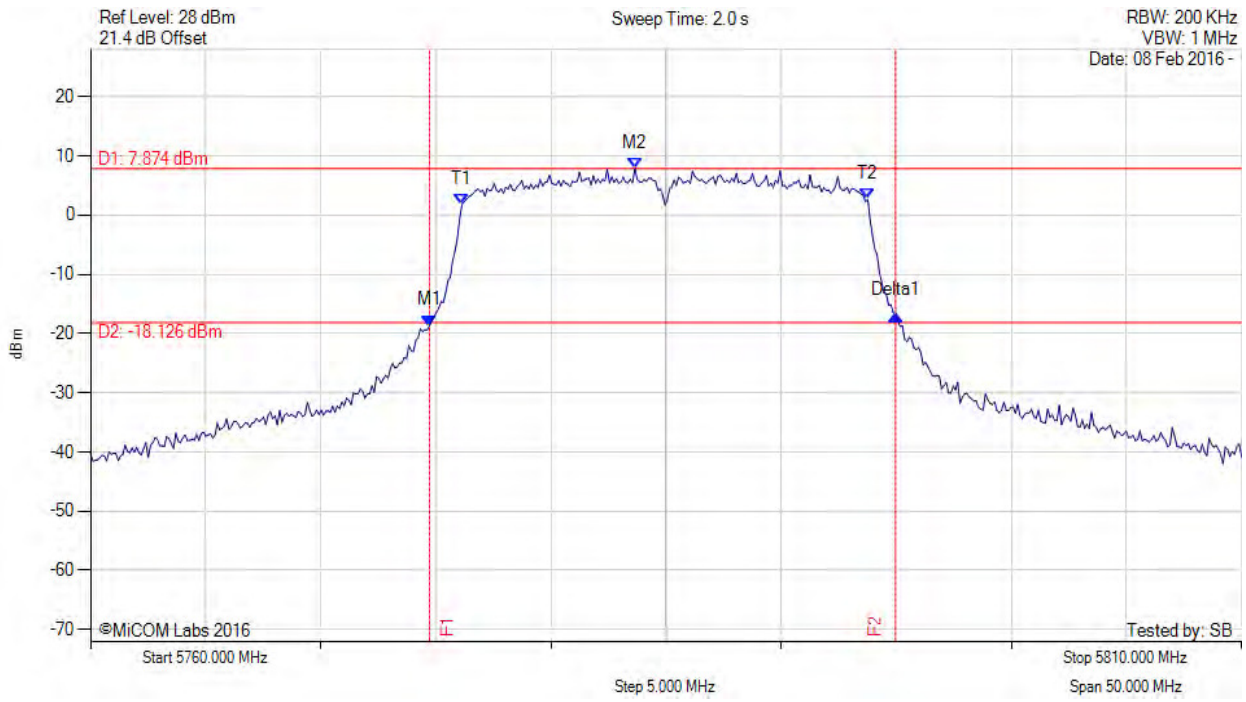
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.729 MHz : -17.328 dBm M2 : 5789.960 MHz : 10.538 dBm Delta1 : 20.140 MHz : 2.857 dB T1 : 5776.132 MHz : 5.452 dBm T2 : 5793.768 MHz : 5.484 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.140 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



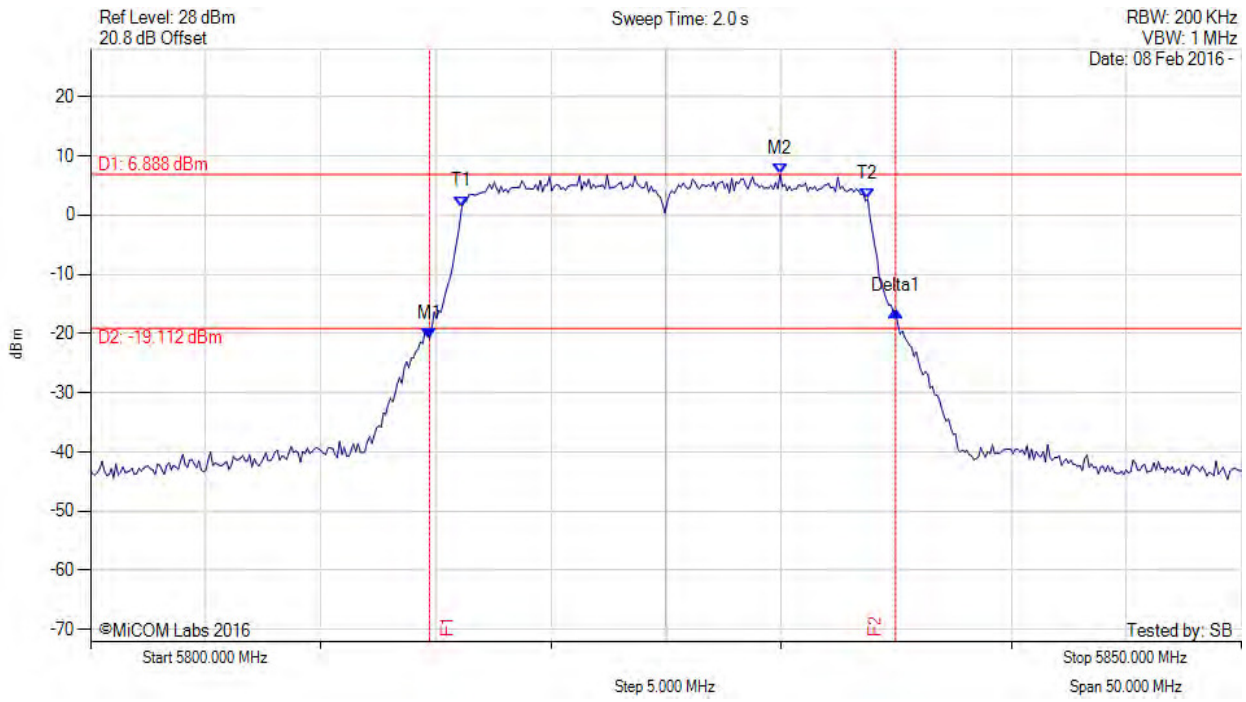
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.729 MHz : -18.640 dBm M2 : 5783.647 MHz : 7.874 dBm Delta1 : 20.240 MHz : 1.836 dB T1 : 5776.132 MHz : 1.696 dBm T2 : 5793.768 MHz : 2.649 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.240 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



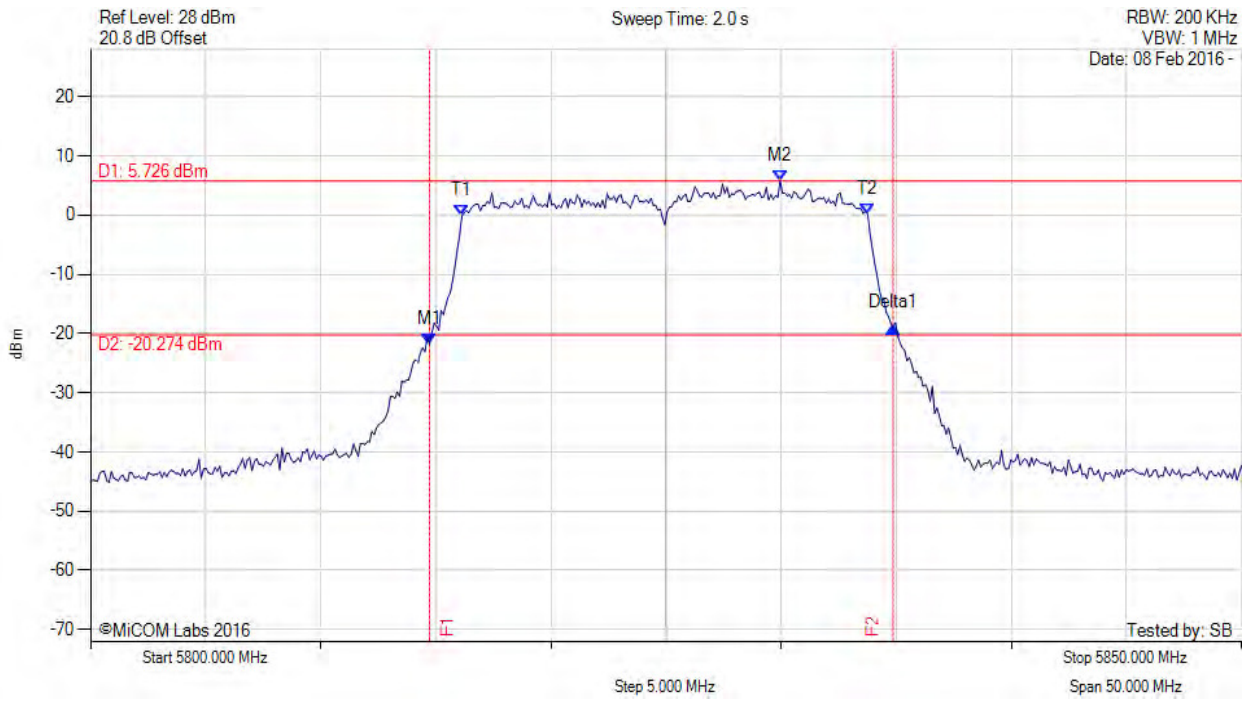
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5814.729 MHz : -20.928 dBm M2 : 5829.960 MHz : 6.888 dBm Delta1 : 20.240 MHz : 4.665 dB T1 : 5816.132 MHz : 1.433 dBm T2 : 5833.768 MHz : 2.678 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.240 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



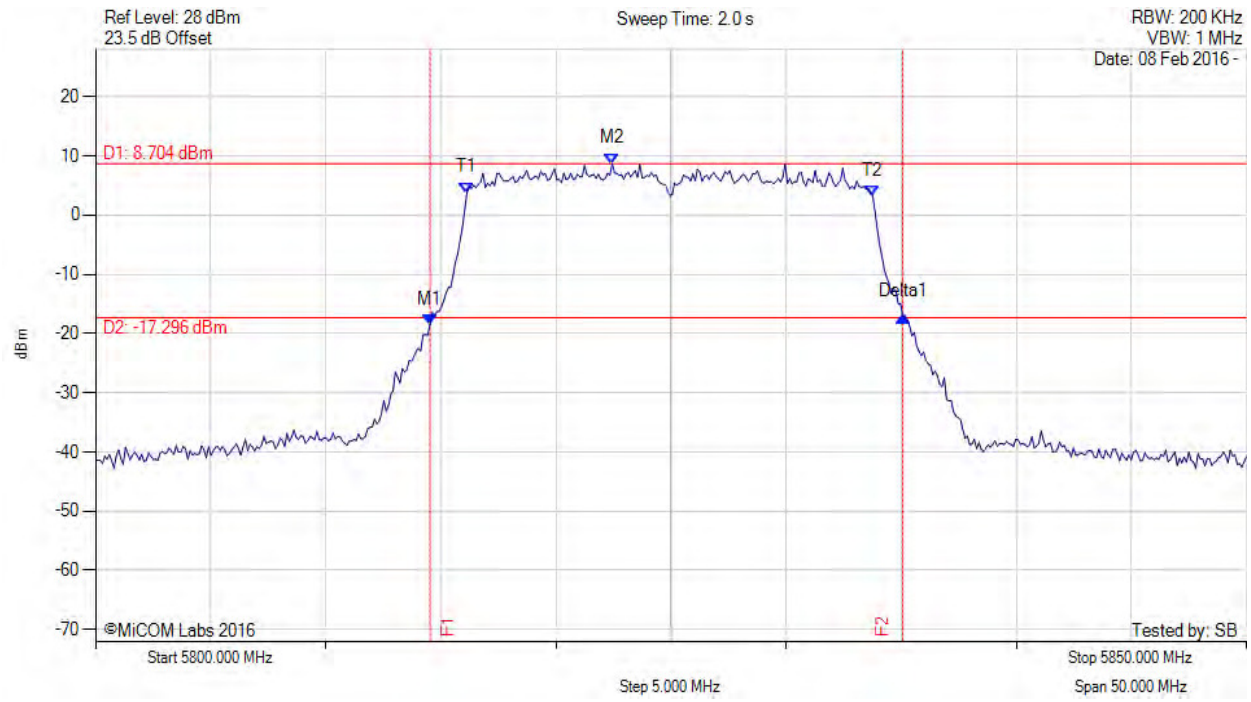
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5814.729 MHz : -21.849 dBm M2 : 5829.960 MHz : 5.726 dBm Delta1 : 20.140 MHz : 2.841 dB T1 : 5816.132 MHz : -0.139 dBm T2 : 5833.768 MHz : 0.085 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.140 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



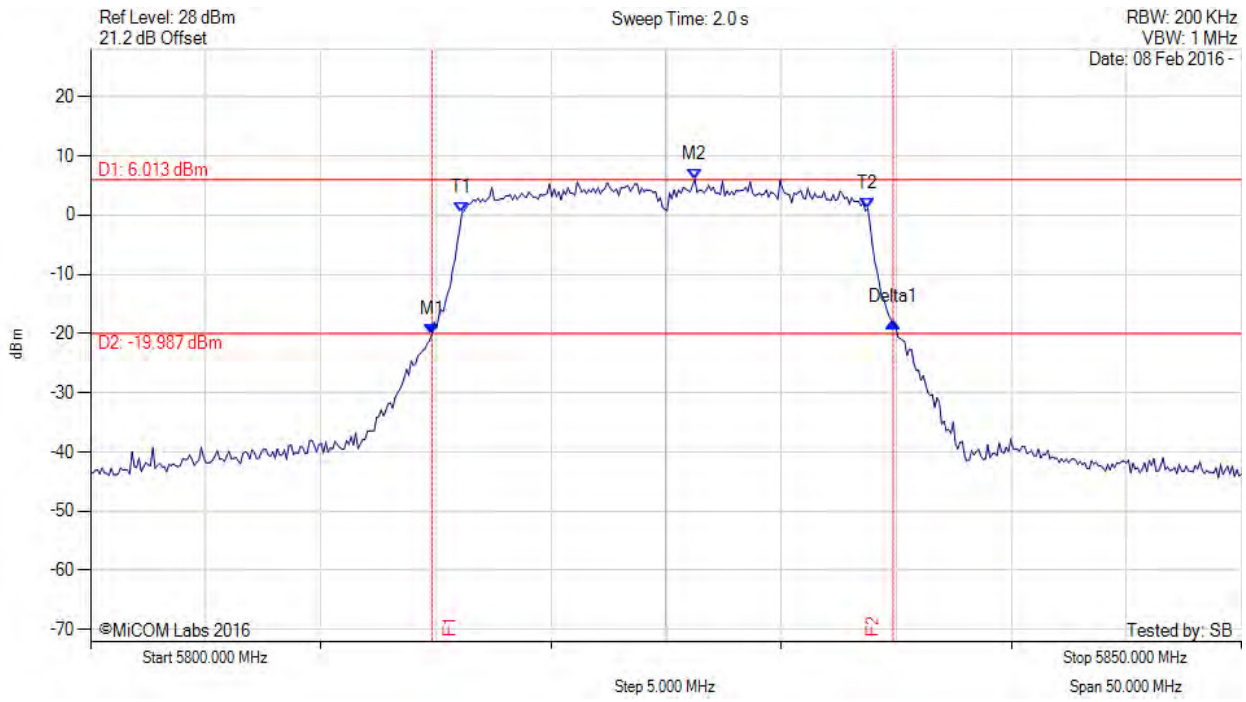
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5814.529 MHz : -18.485 dBm M2 : 5822.445 MHz : 8.704 dBm Delta1 : 20.541 MHz : 1.298 dB T1 : 5816.132 MHz : 3.774 dBm T2 : 5833.768 MHz : 3.176 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.541 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



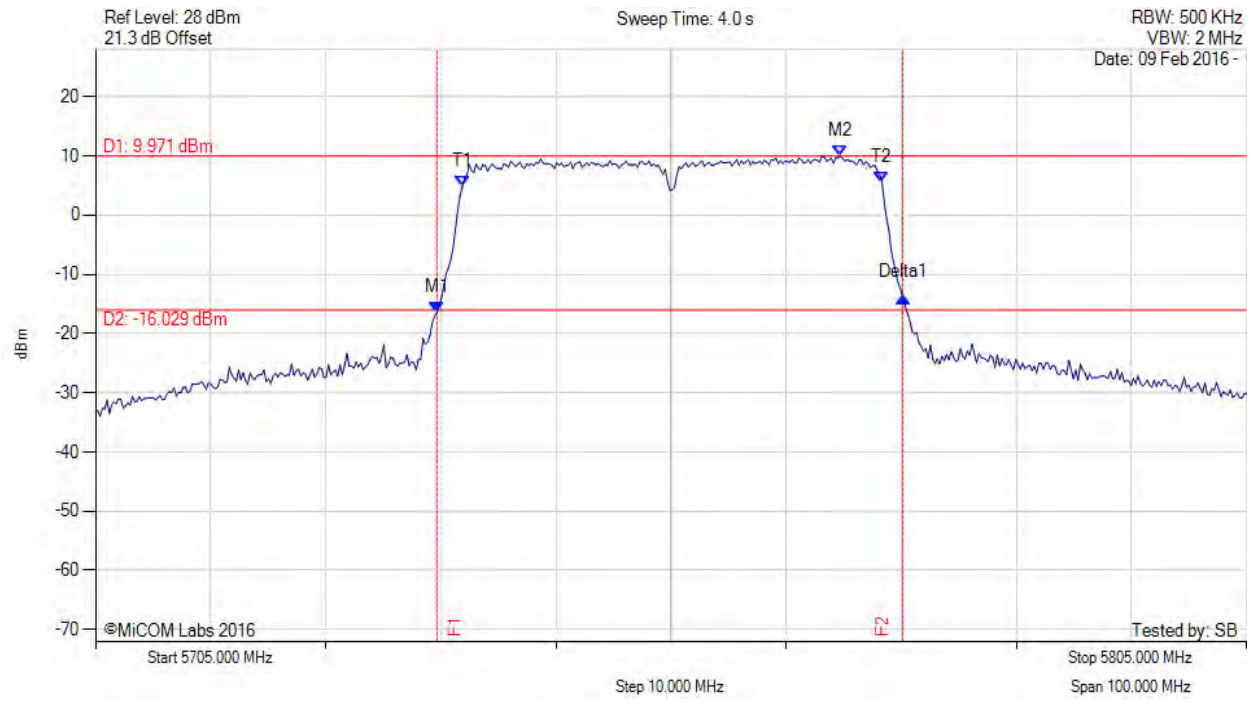
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5814.830 MHz : -20.106 dBm M2 : 5826.253 MHz : 6.013 dBm Delta1 : 20.040 MHz : 2.093 dB T1 : 5816.132 MHz : 0.296 dBm T2 : 5833.768 MHz : 1.155 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



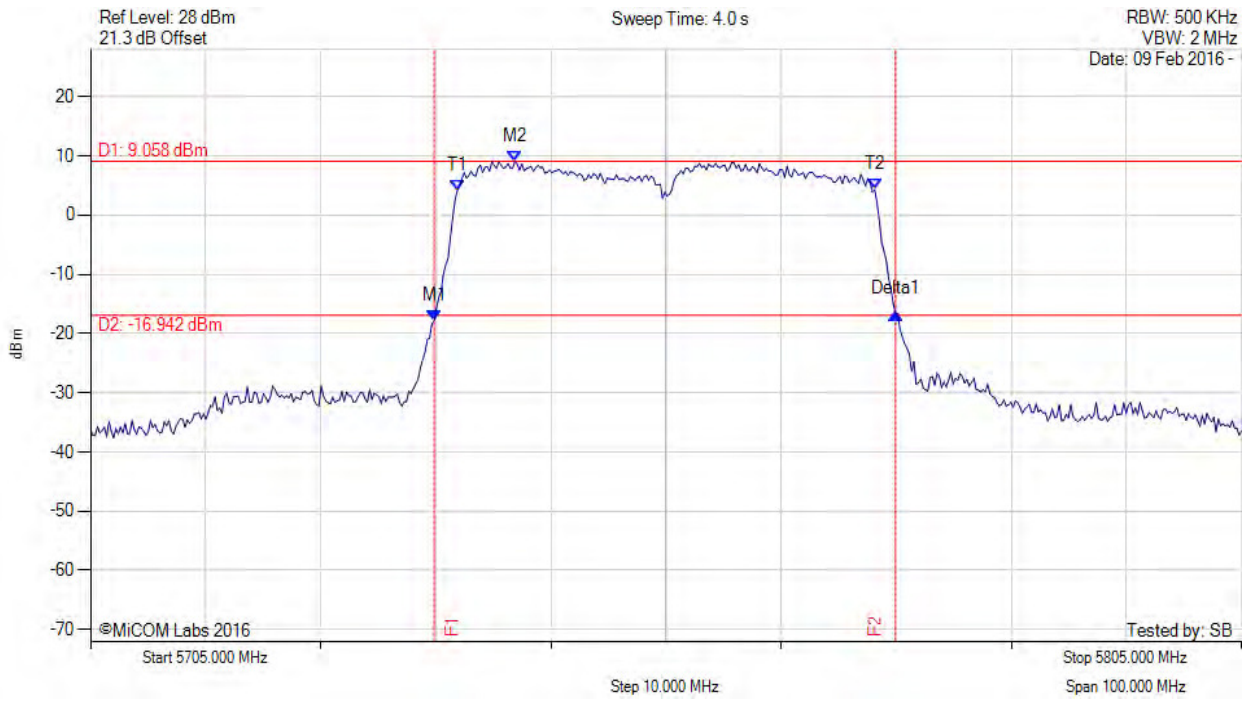
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.659 MHz : -16.433 dBm M2 : 5769.729 MHz : 9.971 dBm Delta1 : 40.481 MHz : 2.563 dB T1 : 5736.864 MHz : 4.736 dBm T2 : 5773.337 MHz : 5.505 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 40.481 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



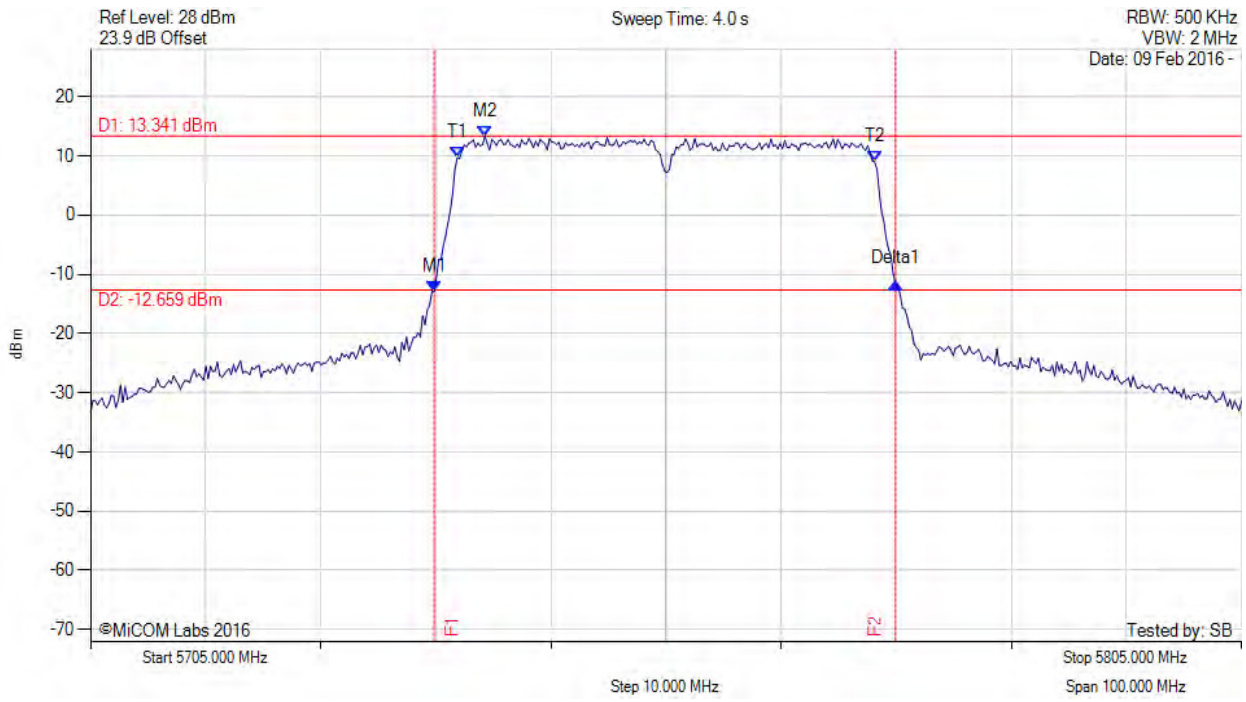
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.860 MHz : -17.855 dBm M2 : 5741.874 MHz : 9.058 dBm Delta1 : 40.080 MHz : 1.155 dB T1 : 5736.864 MHz : 4.197 dBm T2 : 5773.136 MHz : 4.335 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



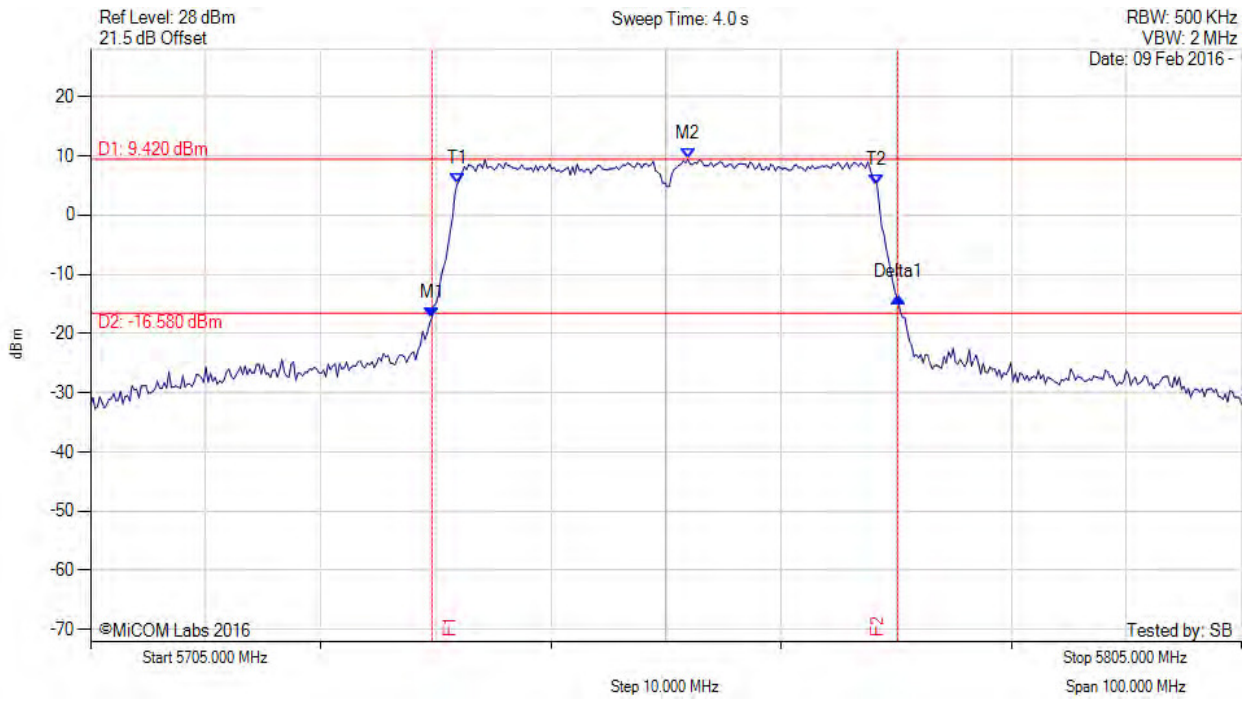
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.860 MHz : -12.947 dBm M2 : 5739.269 MHz : 13.341 dBm Delta1 : 40.080 MHz : 1.367 dB T1 : 5736.864 MHz : 9.700 dBm T2 : 5773.136 MHz : 9.009 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



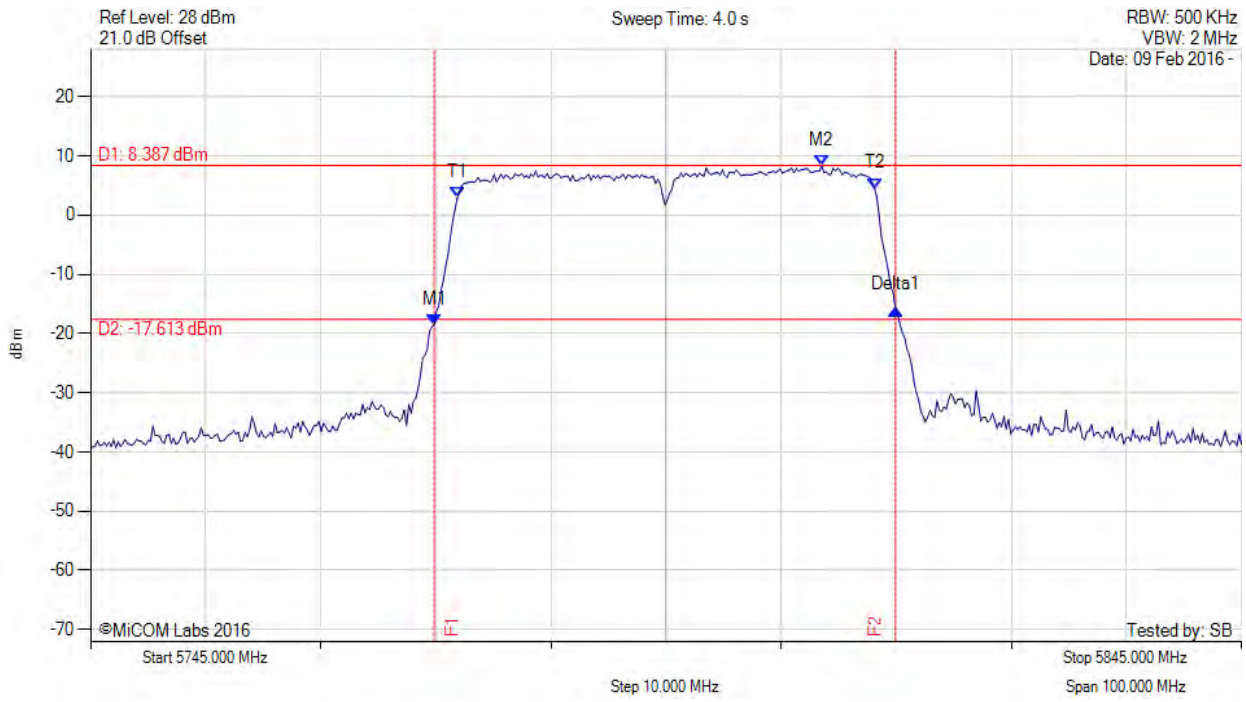
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.659 MHz : -17.314 dBm M2 : 5756.904 MHz : 9.420 dBm Delta1 : 40.481 MHz : 3.409 dB T1 : 5736.864 MHz : 5.255 dBm T2 : 5773.337 MHz : 5.169 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 40.481 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



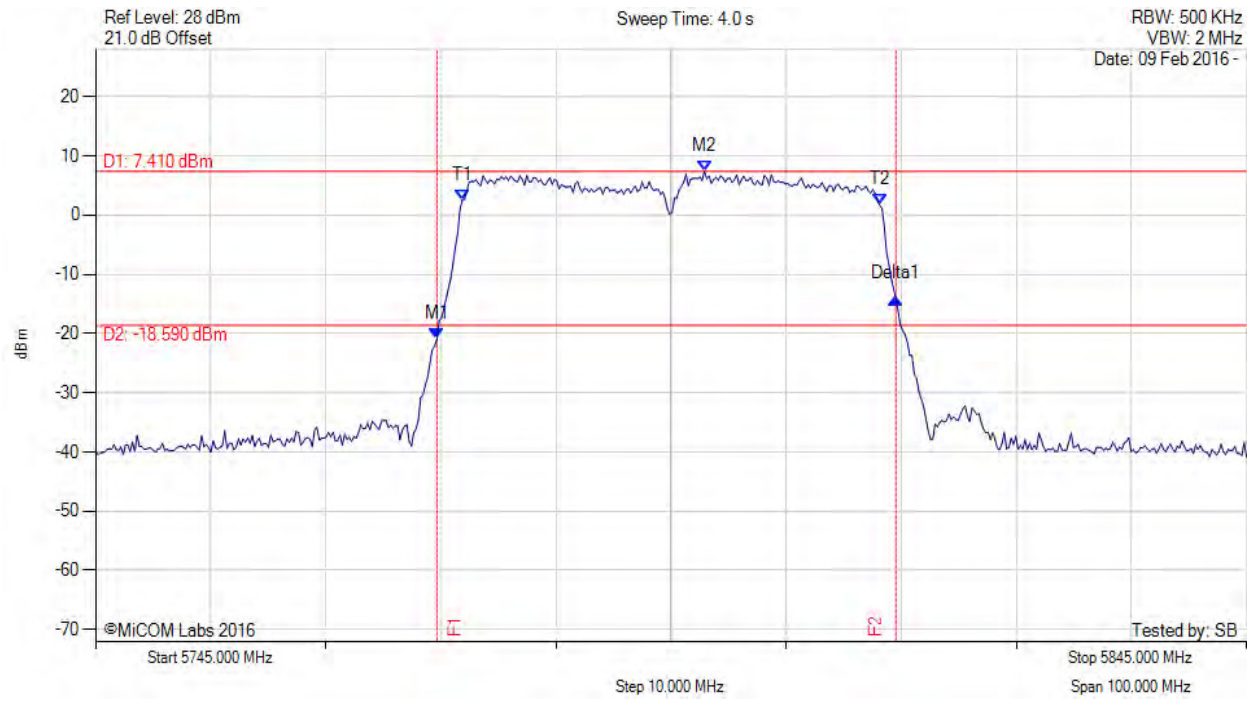
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.860 MHz : -18.571 dBm M2 : 5808.527 MHz : 8.387 dBm Delta1 : 40.080 MHz : 2.593 dB T1 : 5776.864 MHz : 2.875 dBm T2 : 5813.136 MHz : 4.472 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



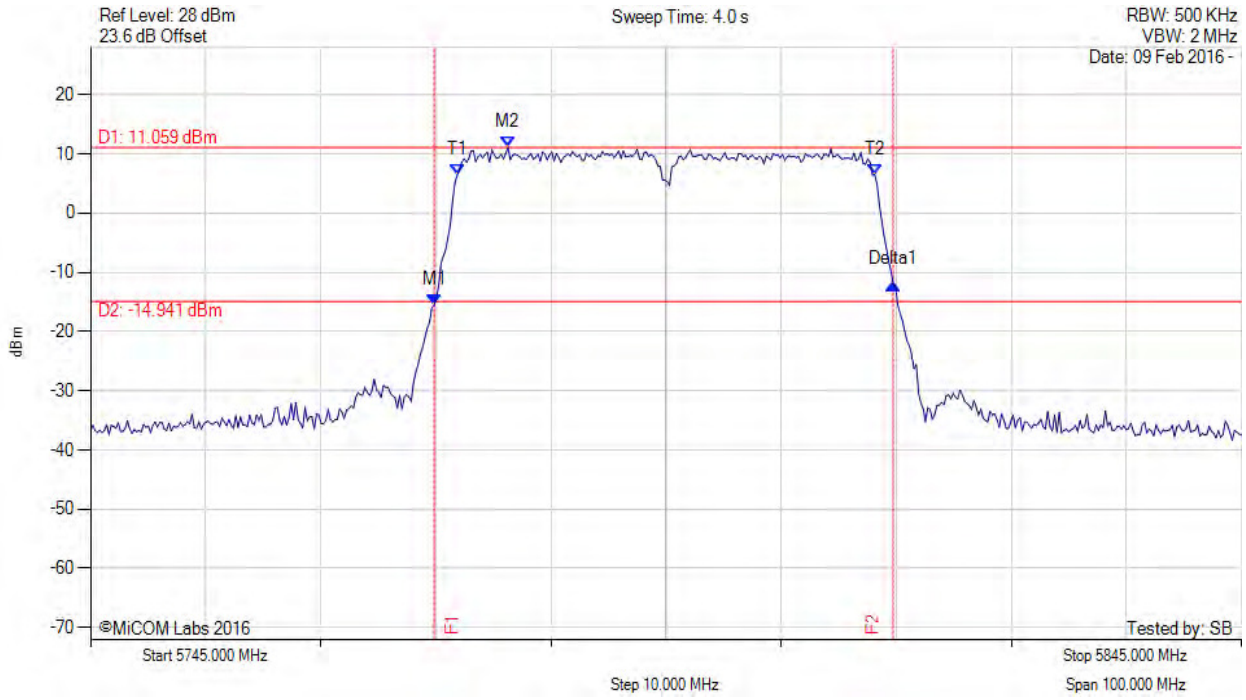
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.659 MHz : -20.966 dBm M2 : 5797.906 MHz : 7.410 dBm Delta1 : 39.880 MHz : 6.909 dB T1 : 5776.864 MHz : 2.517 dBm T2 : 5813.136 MHz : 1.702 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 39.880 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



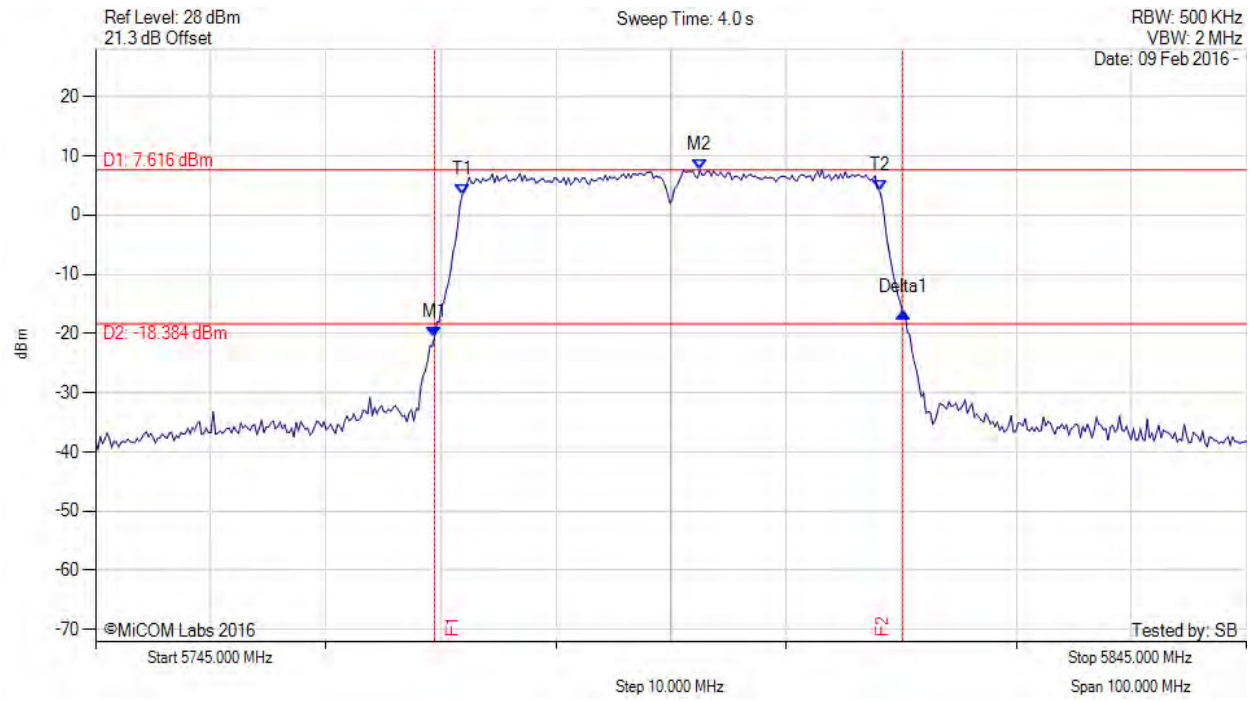
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.860 MHz : -15.593 dBm M2 : 5781.273 MHz : 11.059 dBm Delta1 : 39.880 MHz : 3.555 dB T1 : 5776.864 MHz : 6.440 dBm T2 : 5813.136 MHz : 6.516 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 39.880 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



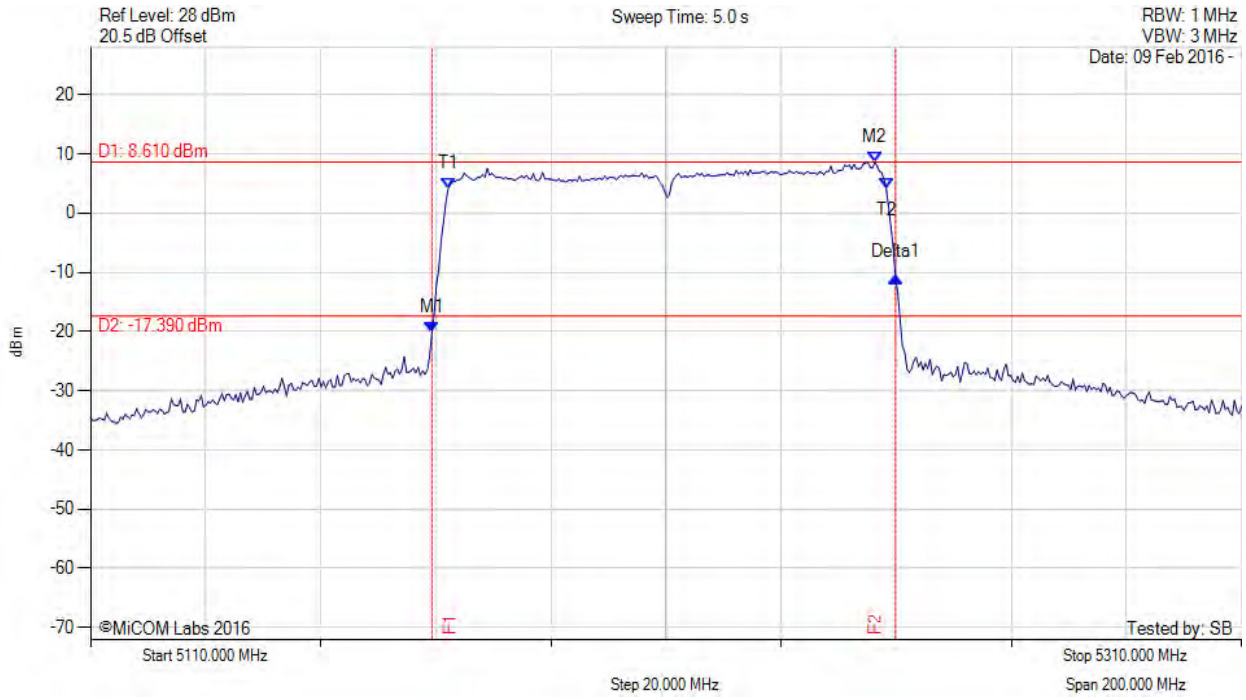
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5774.459 MHz : -20.611 dBm M2 : 5797.505 MHz : 7.616 dBm Delta1 : 40.681 MHz : 4.114 dB T1 : 5776.864 MHz : 3.495 dBm T2 : 5813.136 MHz : 4.042 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.681 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



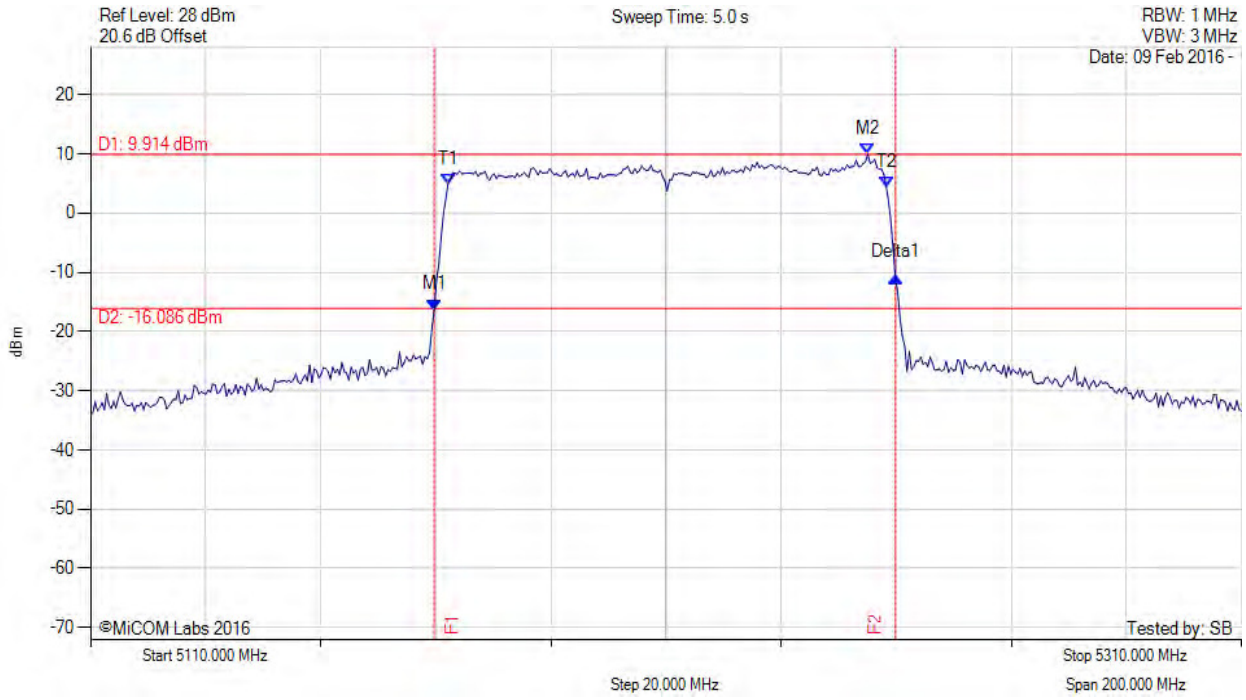
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.319 MHz : -20.167 dBm M2 : 5246.273 MHz : 8.610 dBm Delta1 : 80.561 MHz : 9.329 dB T1 : 5172.124 MHz : 4.049 dBm T2 : 5248.277 MHz : 4.116 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



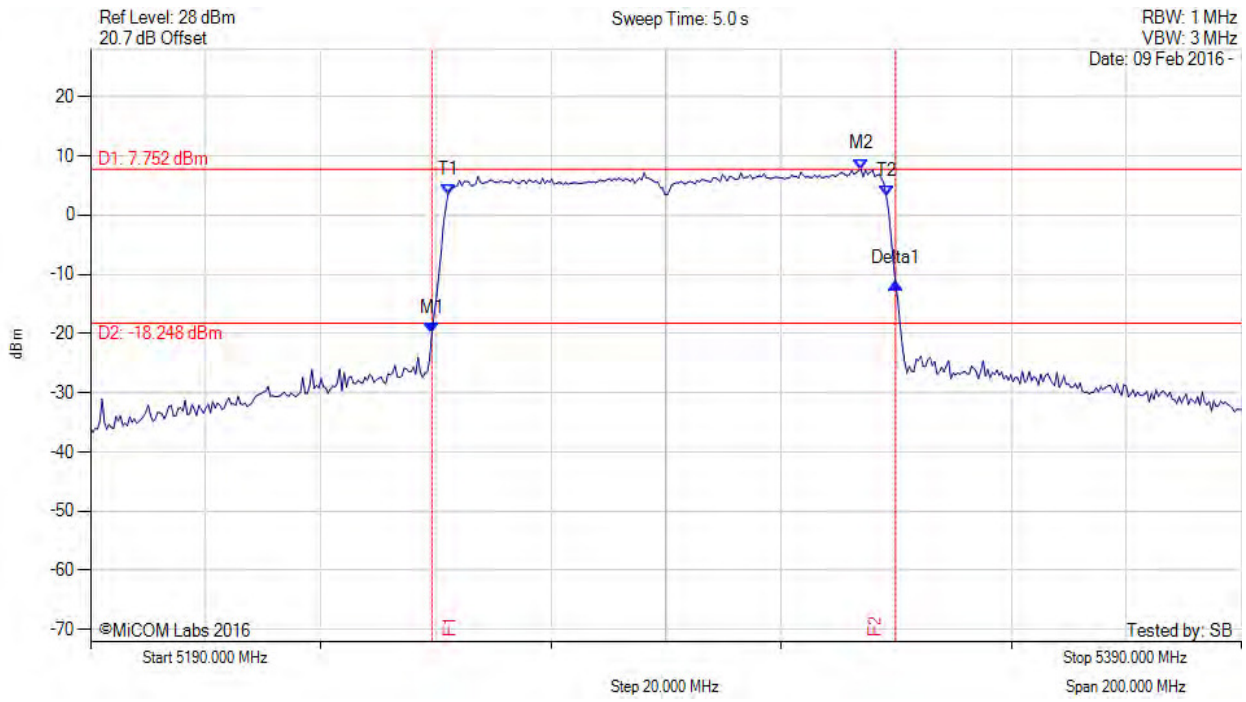
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.719 MHz : -16.328 dBm M2 : 5245.070 MHz : 9.914 dBm Delta1 : 80.160 MHz : 5.418 dB T1 : 5172.124 MHz : 4.921 dBm T2 : 5248.277 MHz : 4.468 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



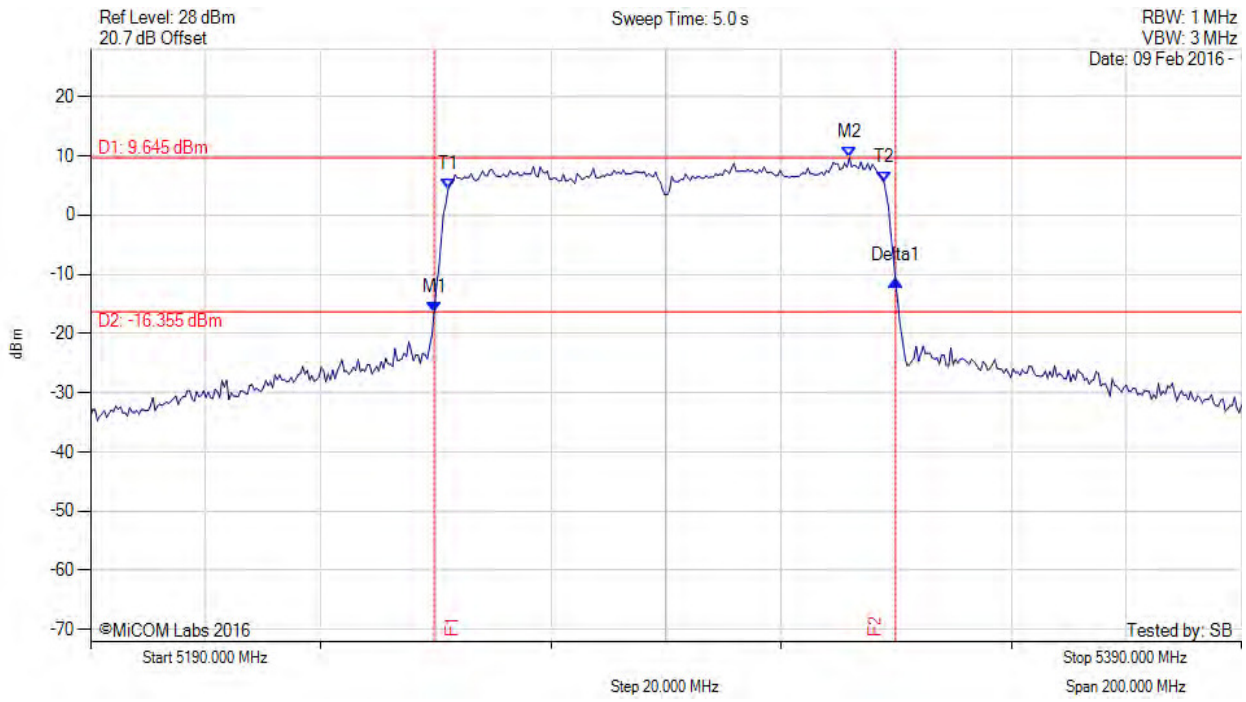
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5249.319 MHz : -19.970 dBm M2 : 5323.868 MHz : 7.752 dBm Delta1 : 80.561 MHz : 8.509 dB T1 : 5252.124 MHz : 3.506 dBm T2 : 5328.277 MHz : 3.298 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



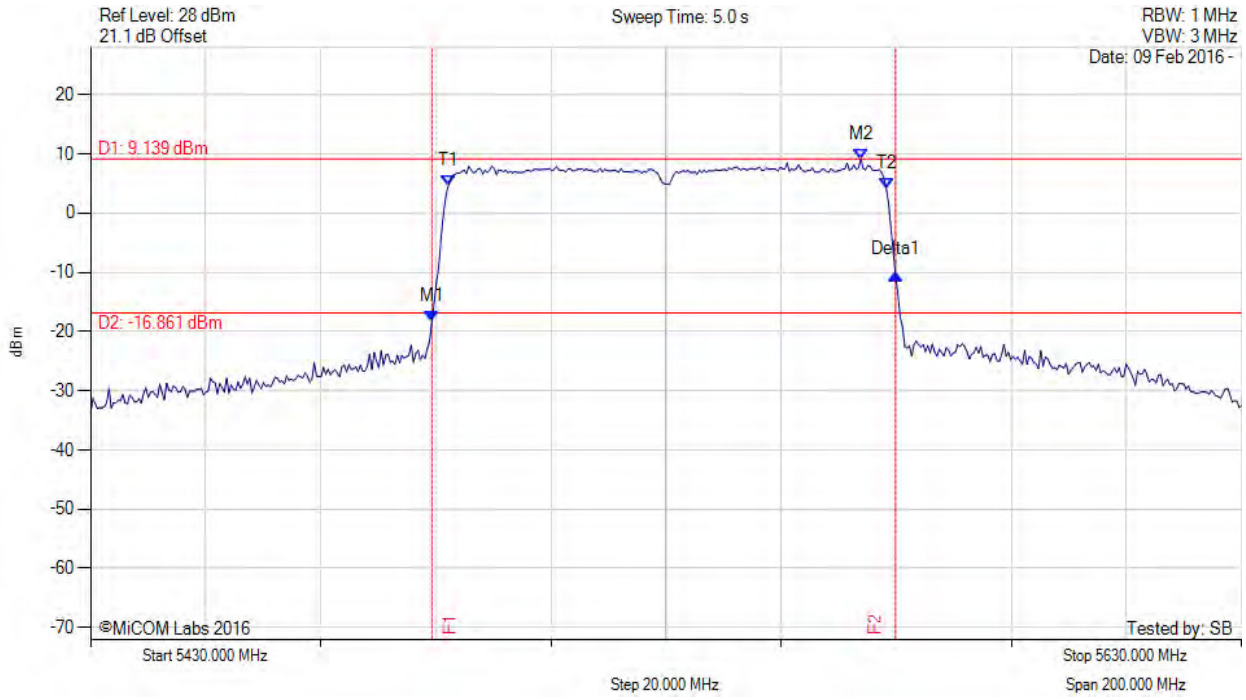
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5249.719 MHz : -16.397 dBm M2 : 5321.864 MHz : 9.645 dBm Delta1 : 80.160 MHz : 5.424 dB T1 : 5252.124 MHz : 4.266 dBm T2 : 5327.876 MHz : 5.621 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



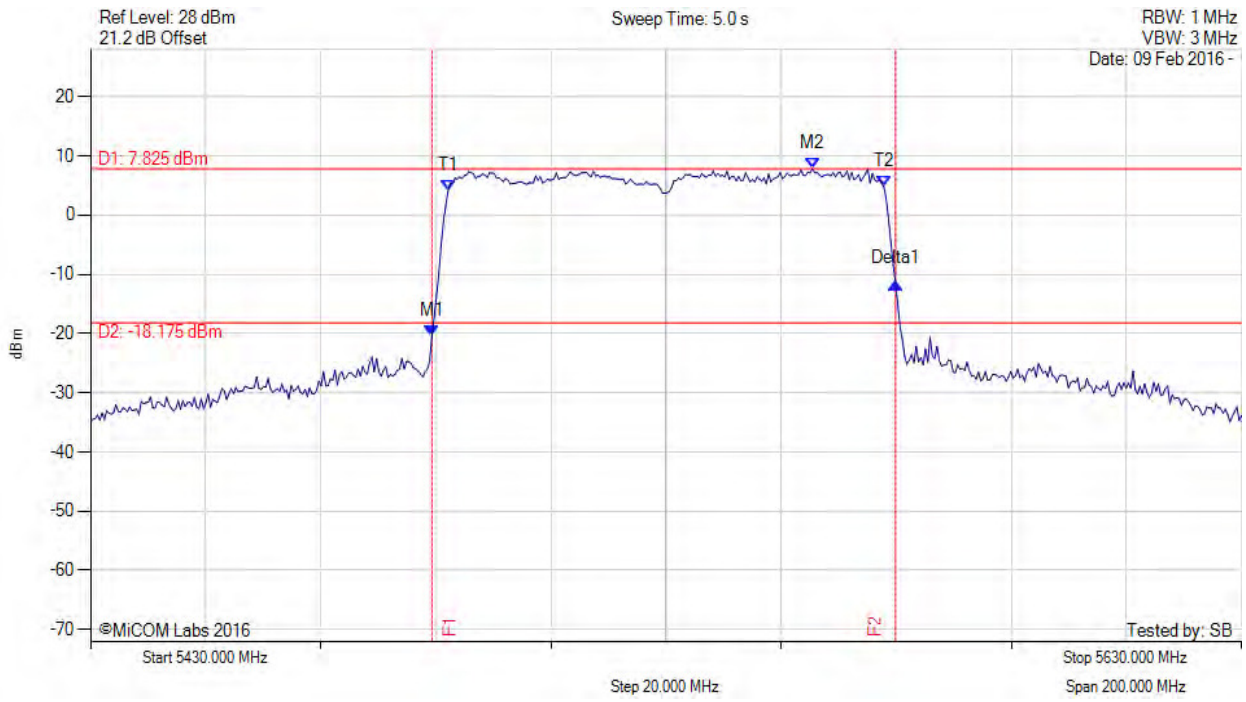
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5489.319 MHz : -18.239 dBm M2 : 5563.868 MHz : 9.139 dBm Delta1 : 80.561 MHz : 7.787 dB T1 : 5492.124 MHz : 4.510 dBm T2 : 5568.277 MHz : 4.177 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



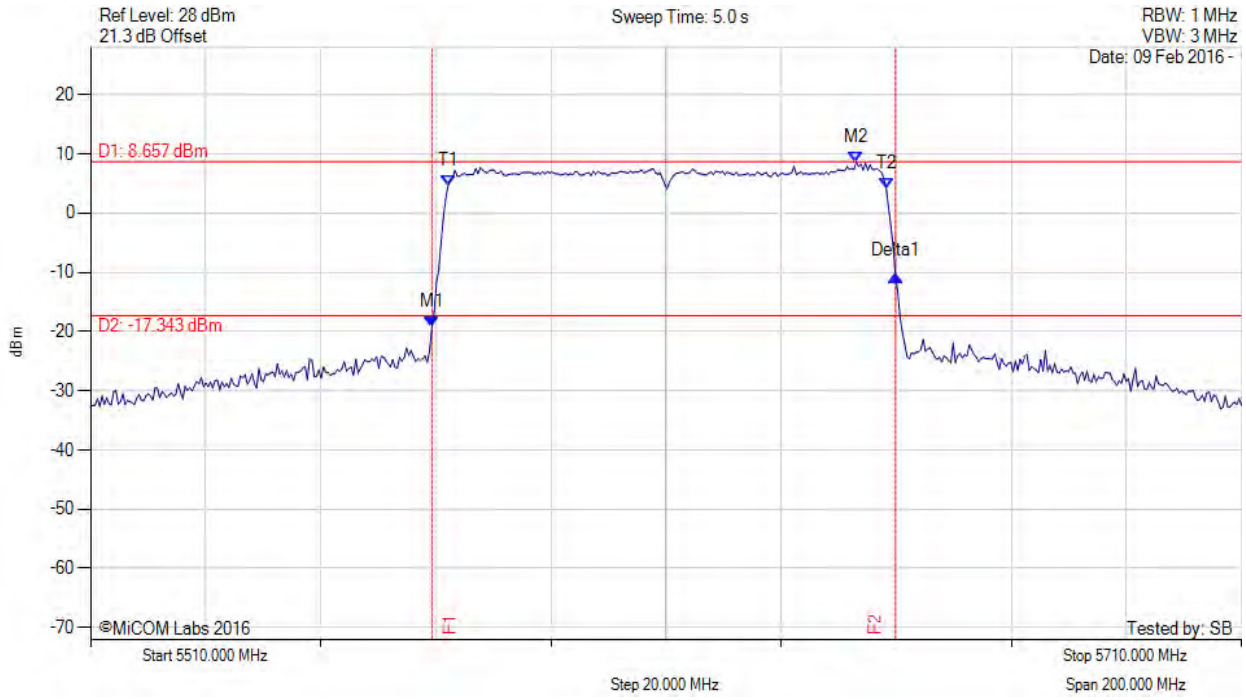
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5489.319 MHz : -20.409 dBm M2 : 5555.451 MHz : 7.825 dBm Delta1 : 80.561 MHz : 8.983 dB T1 : 5492.124 MHz : 4.108 dBm T2 : 5567.876 MHz : 4.760 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



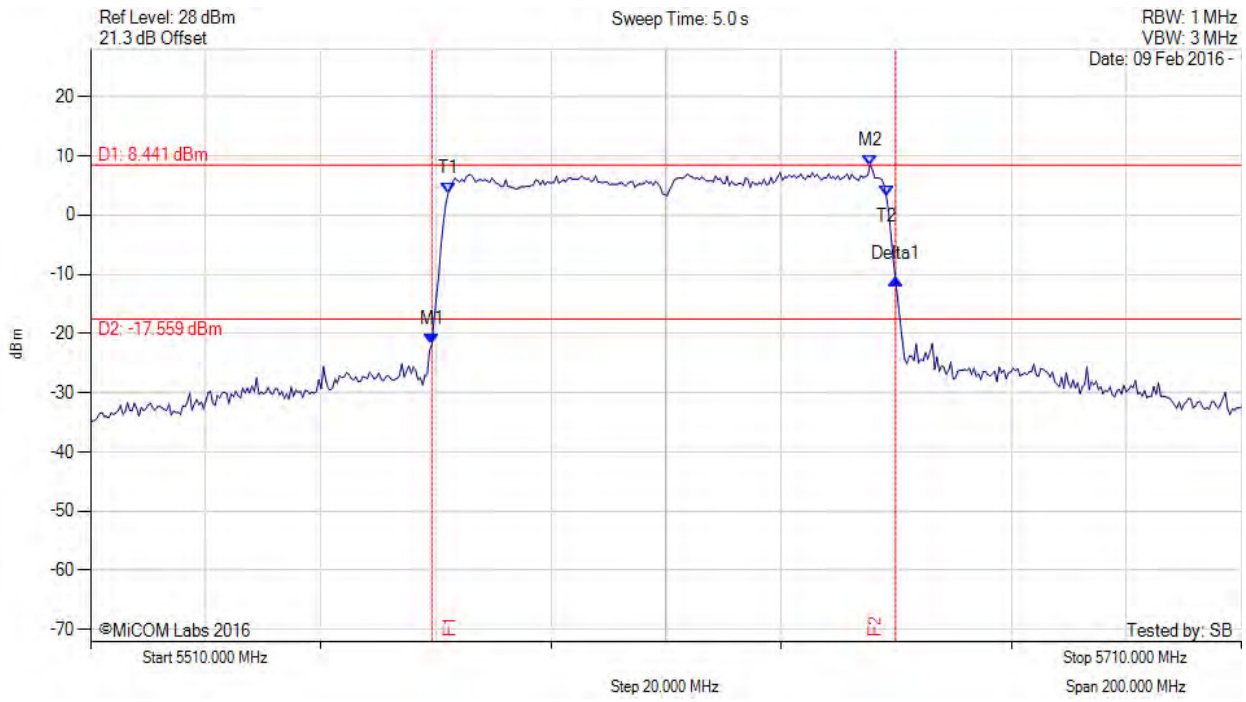
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5569.319 MHz : -19.209 dBm M2 : 5643.066 MHz : 8.657 dBm Delta1 : 80.561 MHz : 8.654 dB T1 : 5572.124 MHz : 4.671 dBm T2 : 5648.277 MHz : 4.148 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



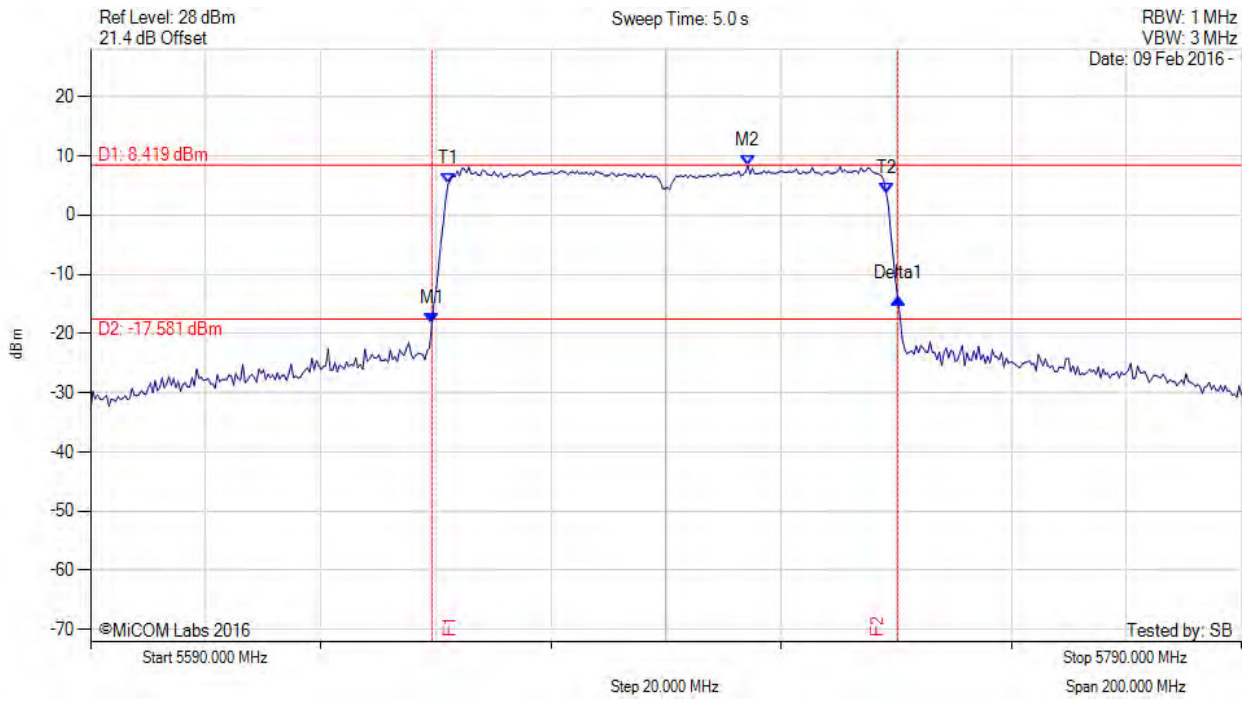
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5569.319 MHz : -21.819 dBm M2 : 5645.471 MHz : 8.441 dBm Delta1 : 80.561 MHz : 11.066 dB T1 : 5572.124 MHz : 3.634 dBm T2 : 5648.277 MHz : 3.253 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



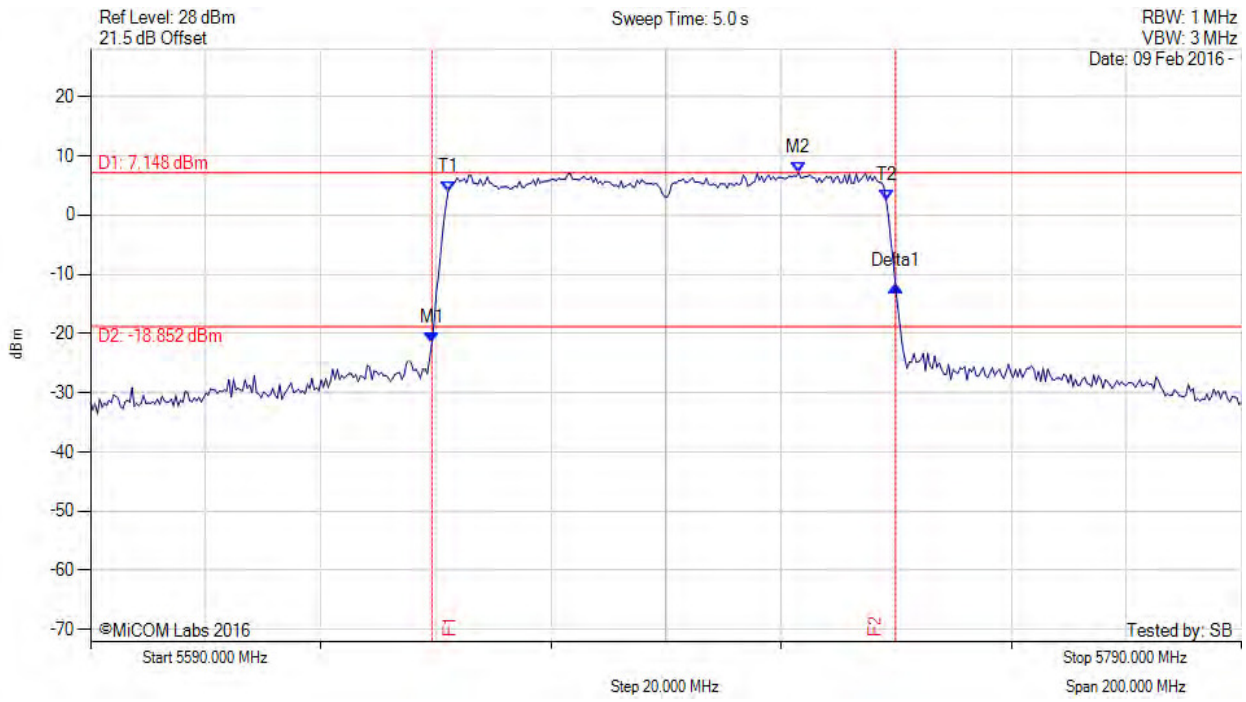
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5649.319 MHz : -18.227 dBm M2 : 5704.228 MHz : 8.419 dBm Delta1 : 80.962 MHz : 4.230 dB T1 : 5652.124 MHz : 5.216 dBm T2 : 5728.277 MHz : 3.739 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



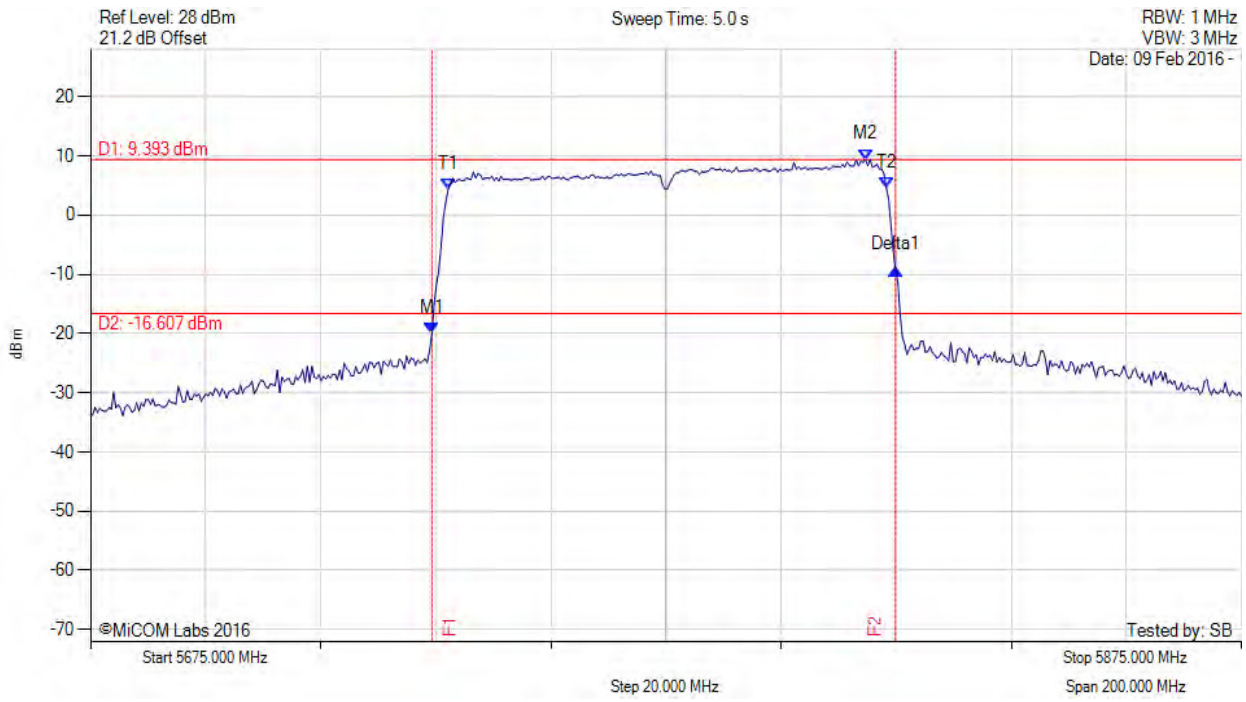
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5649.319 MHz : -21.623 dBm M2 : 5713.046 MHz : 7.148 dBm Delta1 : 80.561 MHz : 9.711 dB T1 : 5652.124 MHz : 3.912 dBm T2 : 5728.277 MHz : 2.462 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



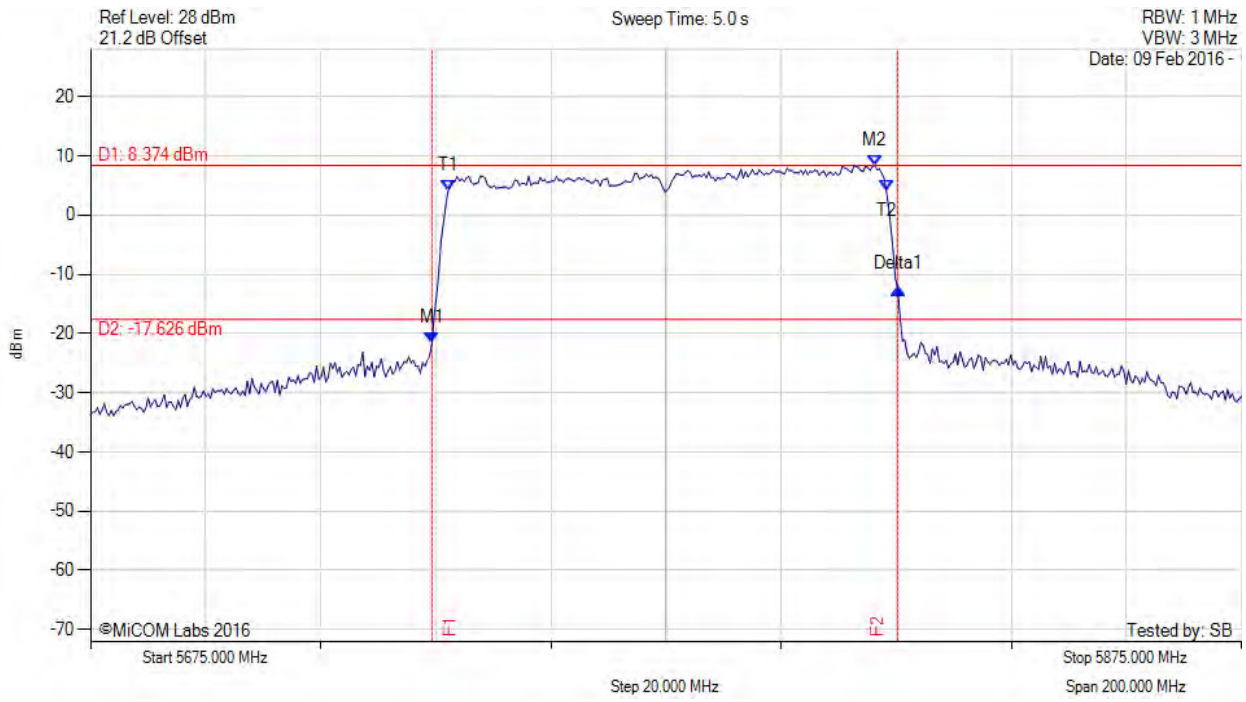
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -20.015 dBm M2 : 5809.669 MHz : 9.393 dBm Delta1 : 80.561 MHz : 10.811 dB T1 : 5737.124 MHz : 4.270 dBm T2 : 5813.277 MHz : 4.636 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



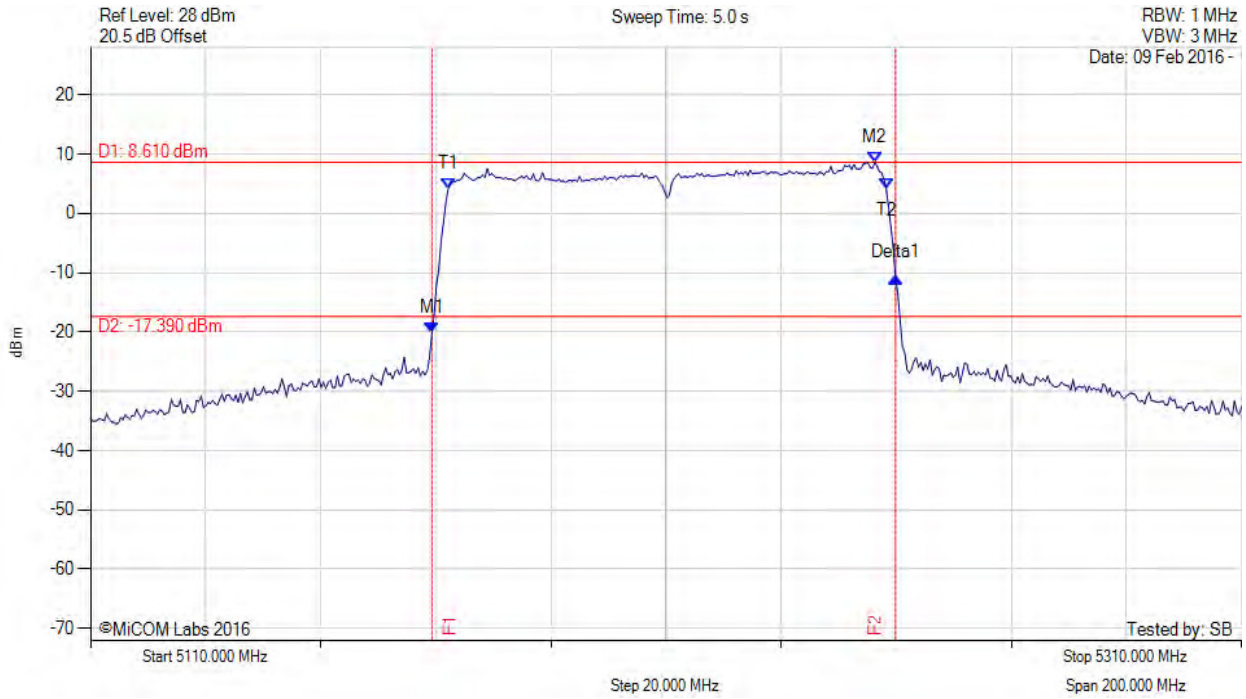
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -21.676 dBm M2 : 5811.273 MHz : 8.374 dBm Delta1 : 80.962 MHz : 9.266 dB T1 : 5737.124 MHz : 4.067 dBm T2 : 5813.277 MHz : 4.260 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



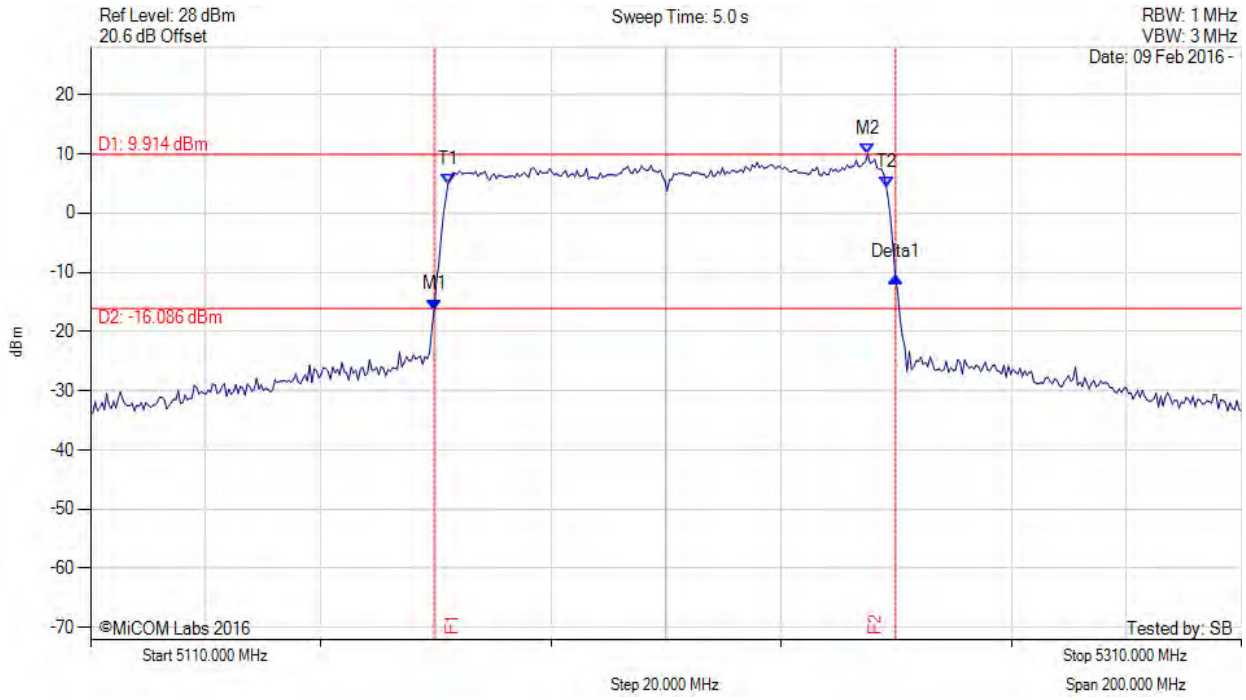
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.319 MHz : -20.167 dBm M2 : 5246.273 MHz : 8.610 dBm Delta1 : 80.561 MHz : 9.329 dB T1 : 5172.124 MHz : 4.049 dBm T2 : 5248.277 MHz : 4.116 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



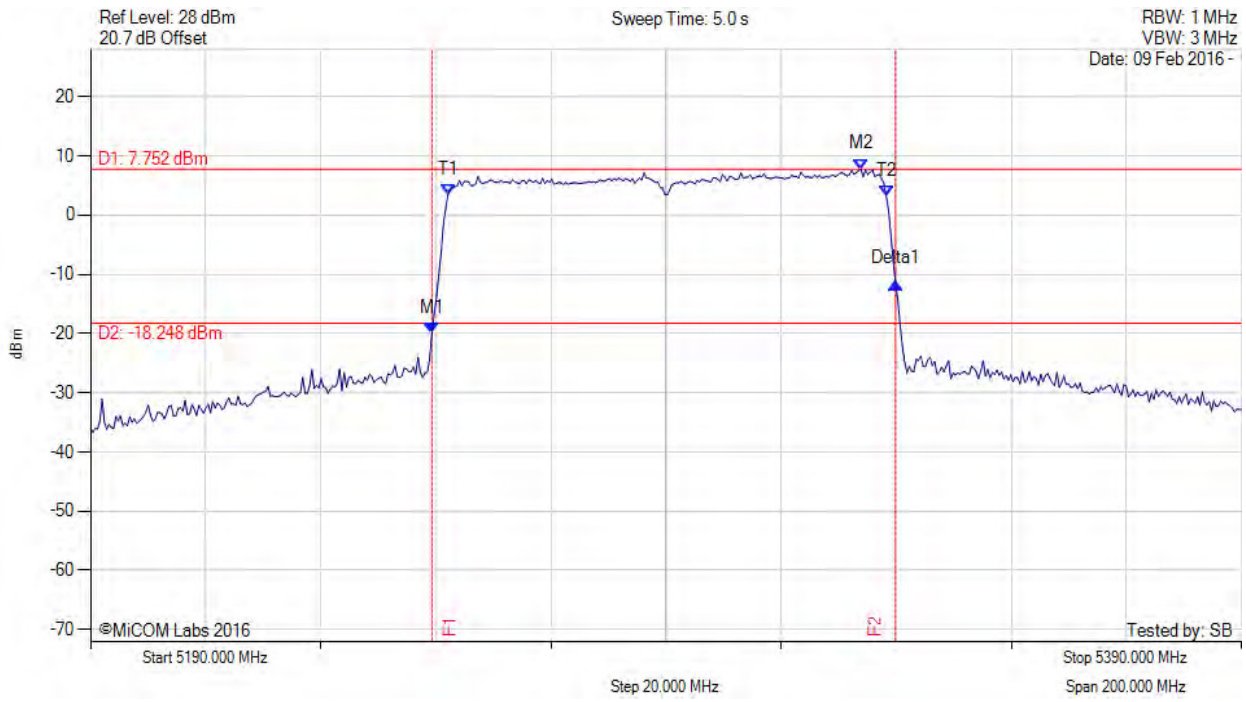
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5169.719 MHz : -16.328 dBm M2 : 5245.070 MHz : 9.914 dBm Delta1 : 80.160 MHz : 5.418 dB T1 : 5172.124 MHz : 4.921 dBm T2 : 5248.277 MHz : 4.468 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



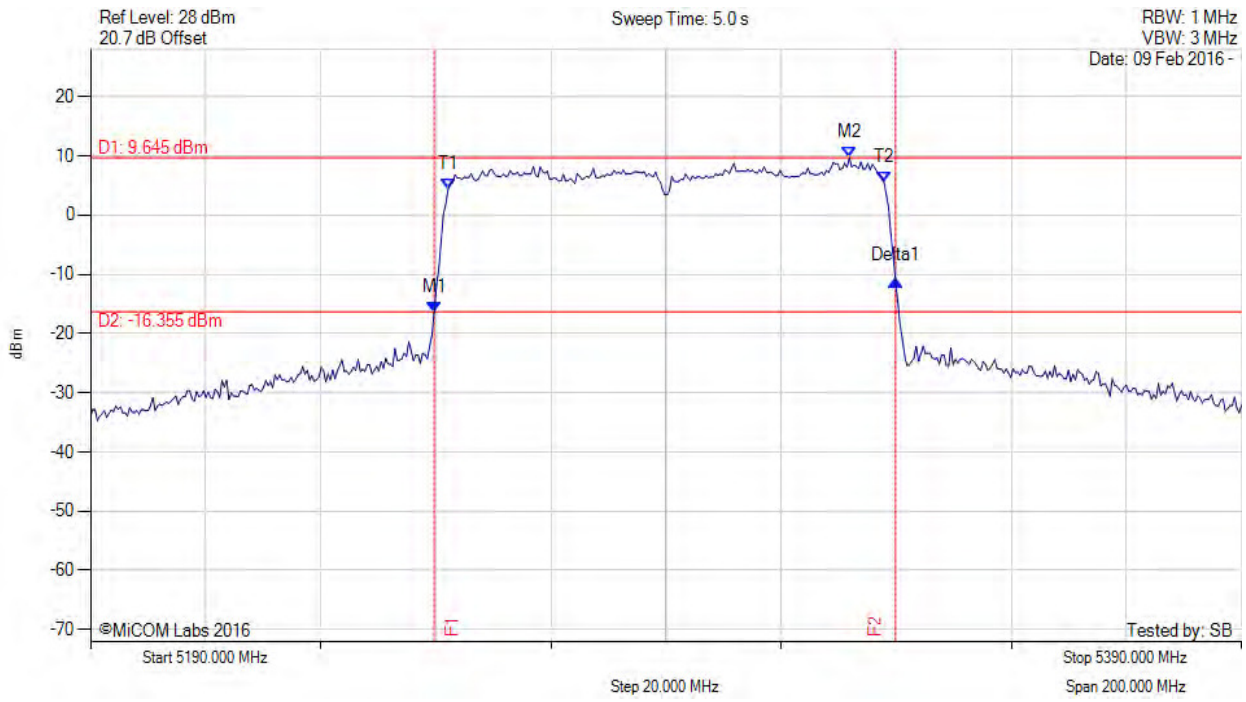
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5249.319 MHz : -19.970 dBm M2 : 5323.868 MHz : 7.752 dBm Delta1 : 80.561 MHz : 8.509 dB T1 : 5252.124 MHz : 3.506 dBm T2 : 5328.277 MHz : 3.298 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



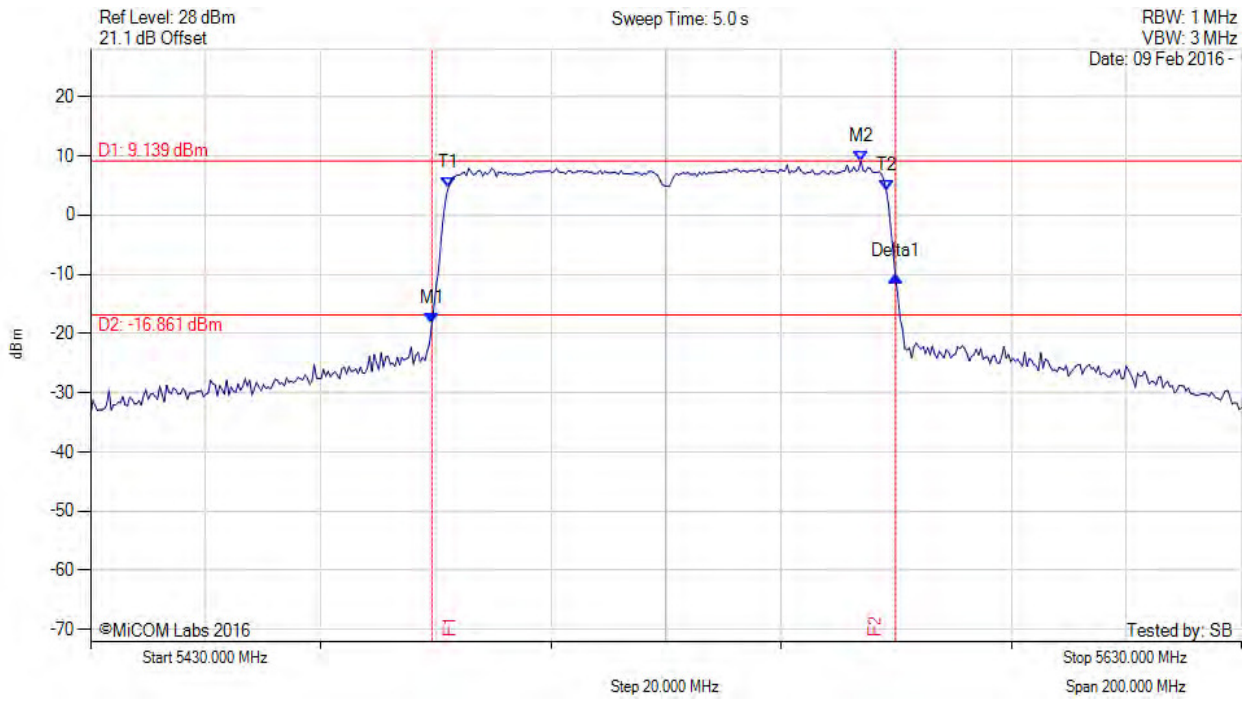
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5249.719 MHz : -16.397 dBm M2 : 5321.864 MHz : 9.645 dBm Delta1 : 80.160 MHz : 5.424 dB T1 : 5252.124 MHz : 4.266 dBm T2 : 5327.876 MHz : 5.621 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



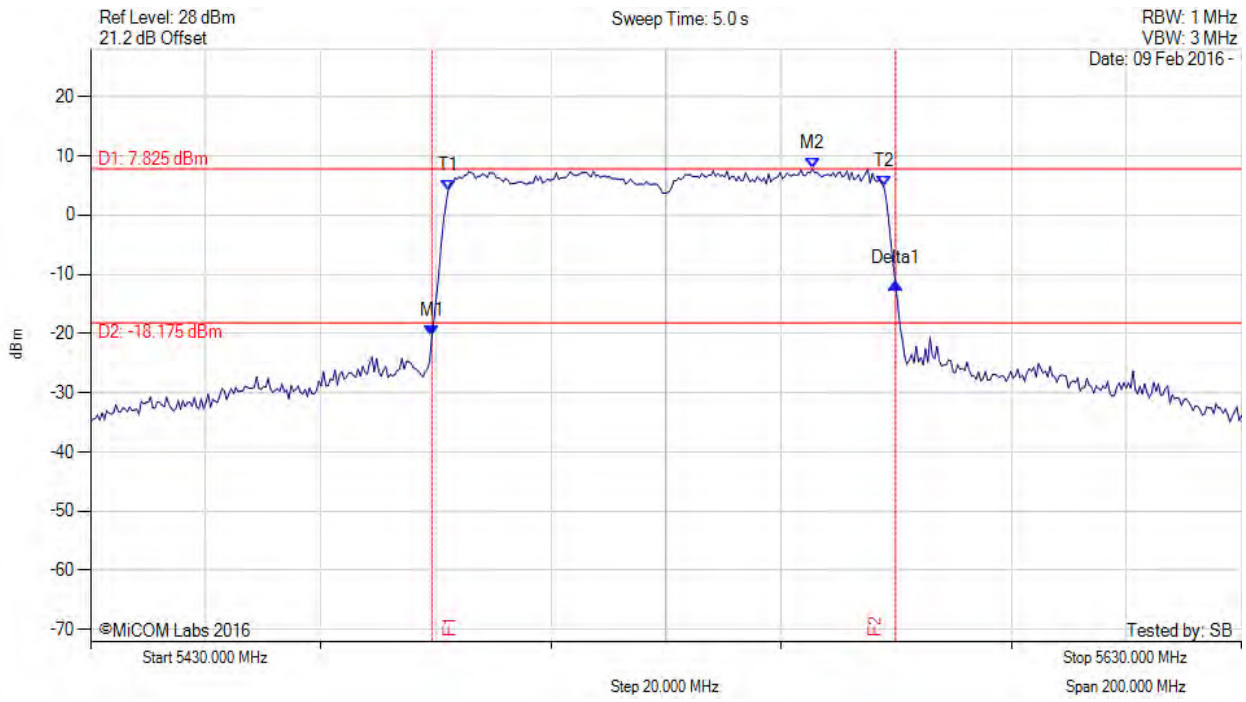
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5489.319 MHz : -18.239 dBm M2 : 5563.868 MHz : 9.139 dBm Delta1 : 80.561 MHz : 7.787 dB T1 : 5492.124 MHz : 4.510 dBm T2 : 5568.277 MHz : 4.177 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



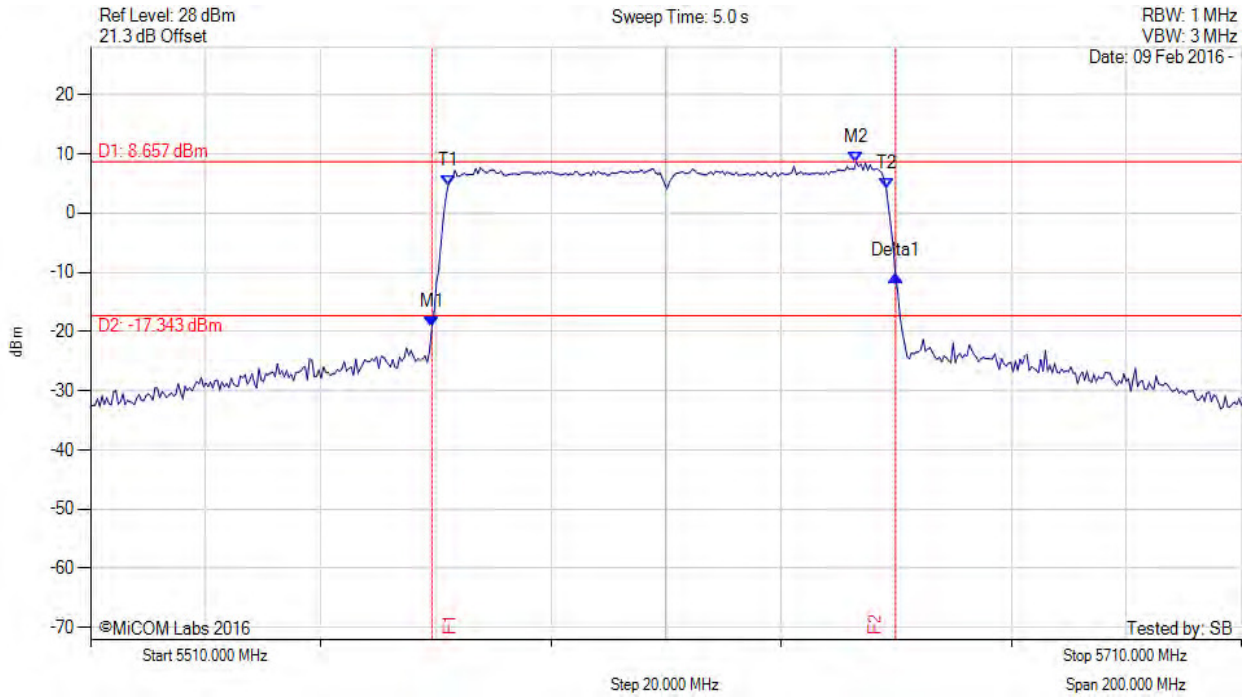
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5489.319 MHz : -20.409 dBm M2 : 5555.451 MHz : 7.825 dBm Delta1 : 80.561 MHz : 8.983 dB T1 : 5492.124 MHz : 4.108 dBm T2 : 5567.876 MHz : 4.760 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



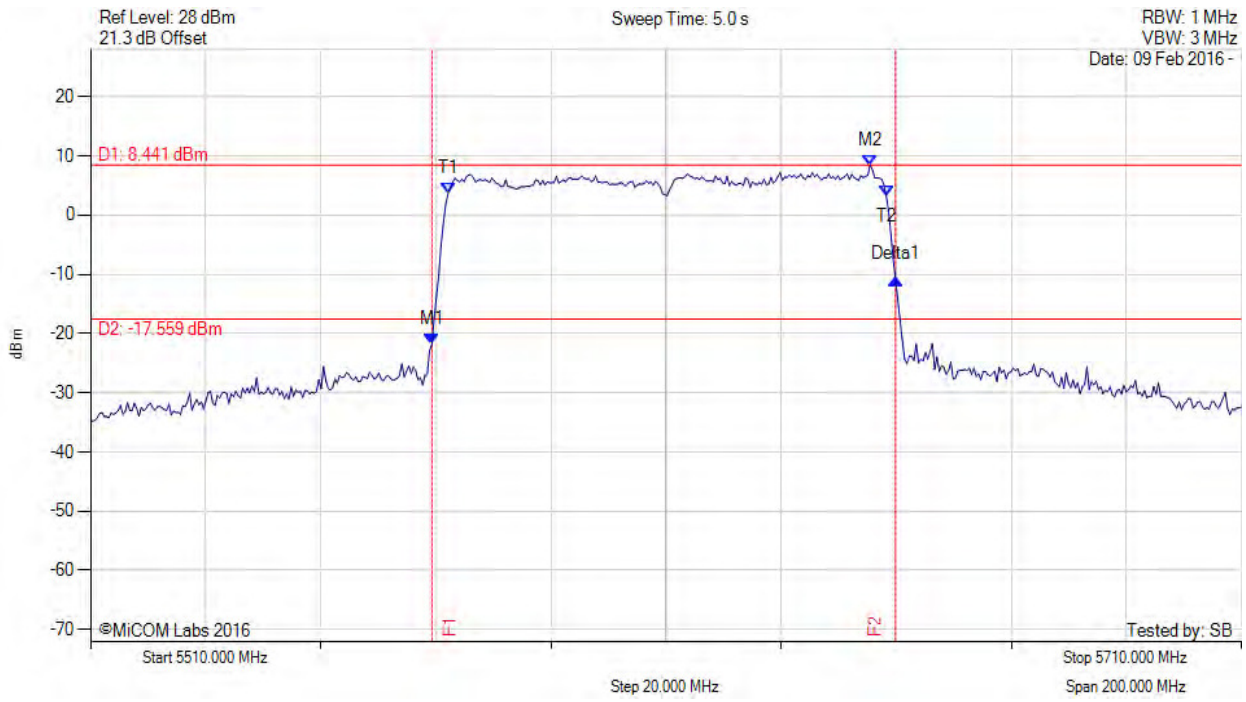
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5569.319 MHz : -19.209 dBm M2 : 5643.066 MHz : 8.657 dBm Delta1 : 80.561 MHz : 8.654 dB T1 : 5572.124 MHz : 4.671 dBm T2 : 5648.277 MHz : 4.148 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



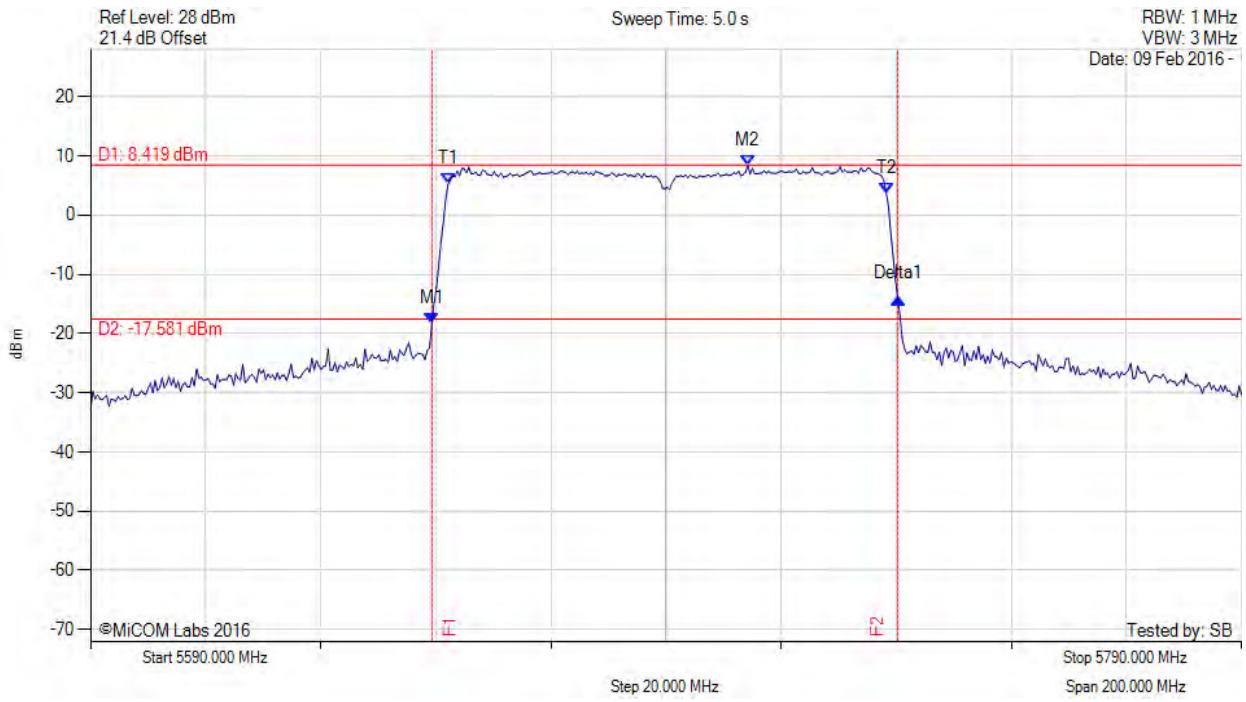
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5569.319 MHz : -21.819 dBm M2 : 5645.471 MHz : 8.441 dBm Delta1 : 80.561 MHz : 11.066 dB T1 : 5572.124 MHz : 3.634 dBm T2 : 5648.277 MHz : 3.253 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



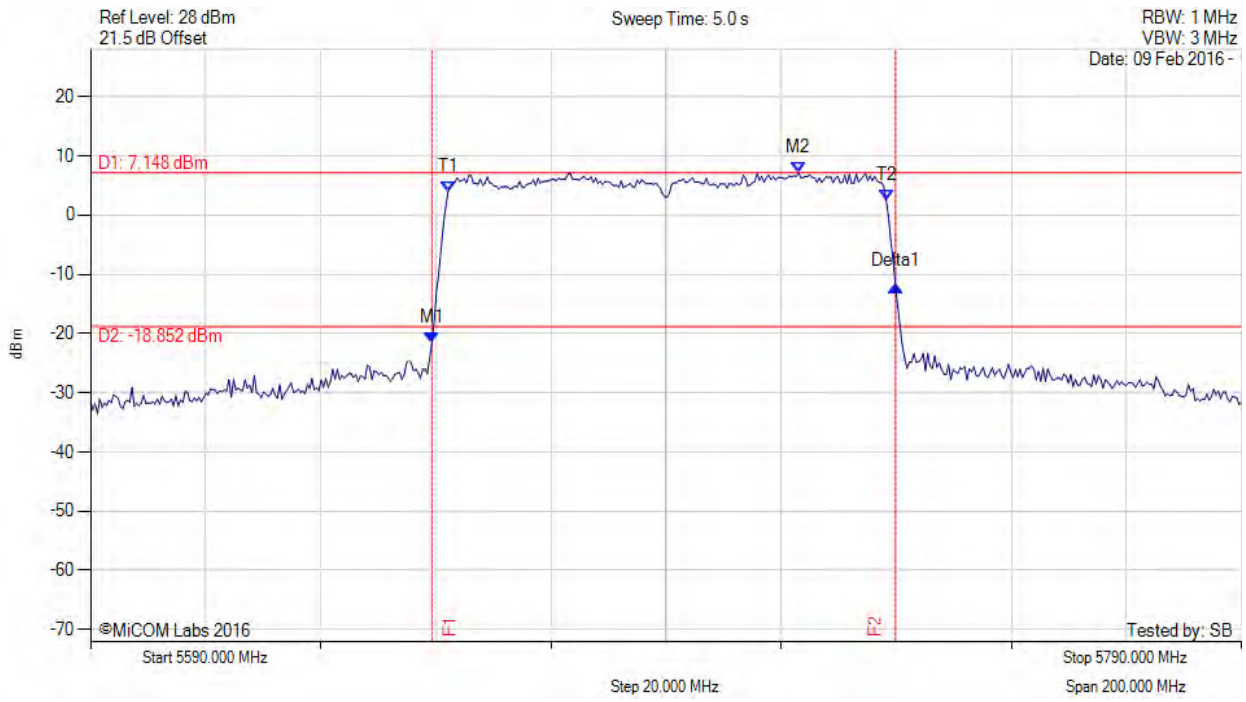
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5649.319 MHz : -18.227 dBm M2 : 5704.228 MHz : 8.419 dBm Delta1 : 80.962 MHz : 4.230 dB T1 : 5652.124 MHz : 5.216 dBm T2 : 5728.277 MHz : 3.739 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



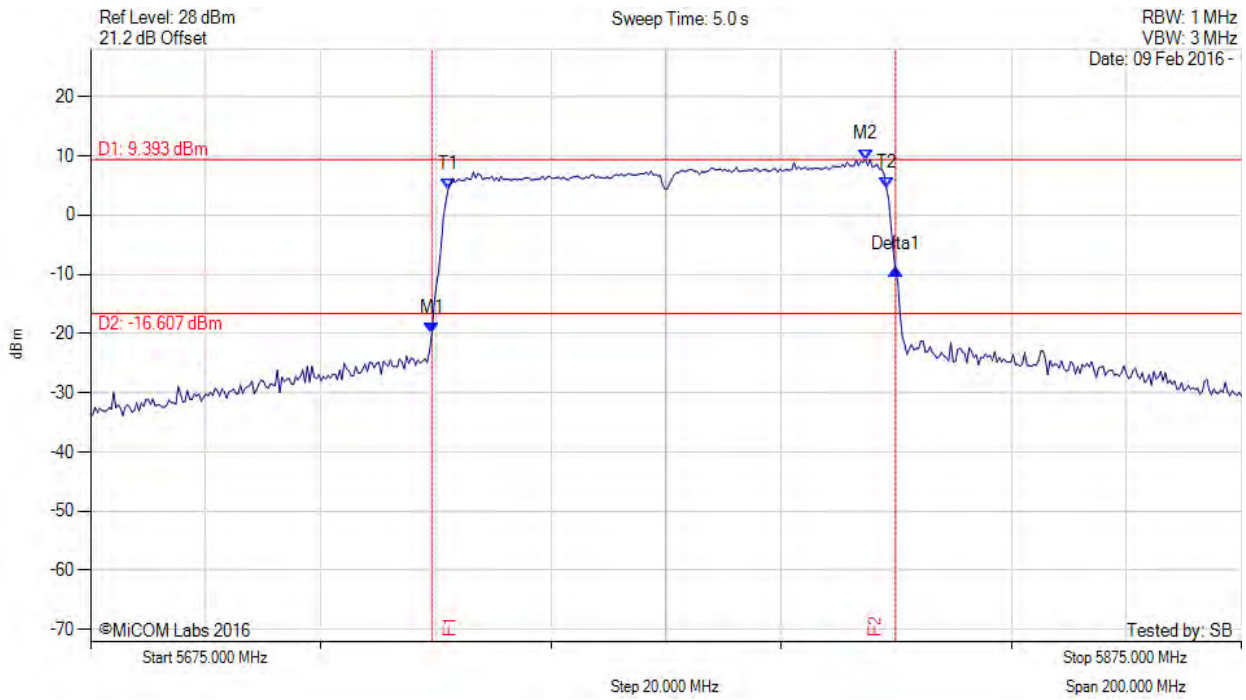
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5649.319 MHz : -21.623 dBm M2 : 5713.046 MHz : 7.148 dBm Delta1 : 80.561 MHz : 9.711 dB T1 : 5652.124 MHz : 3.912 dBm T2 : 5728.277 MHz : 2.462 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



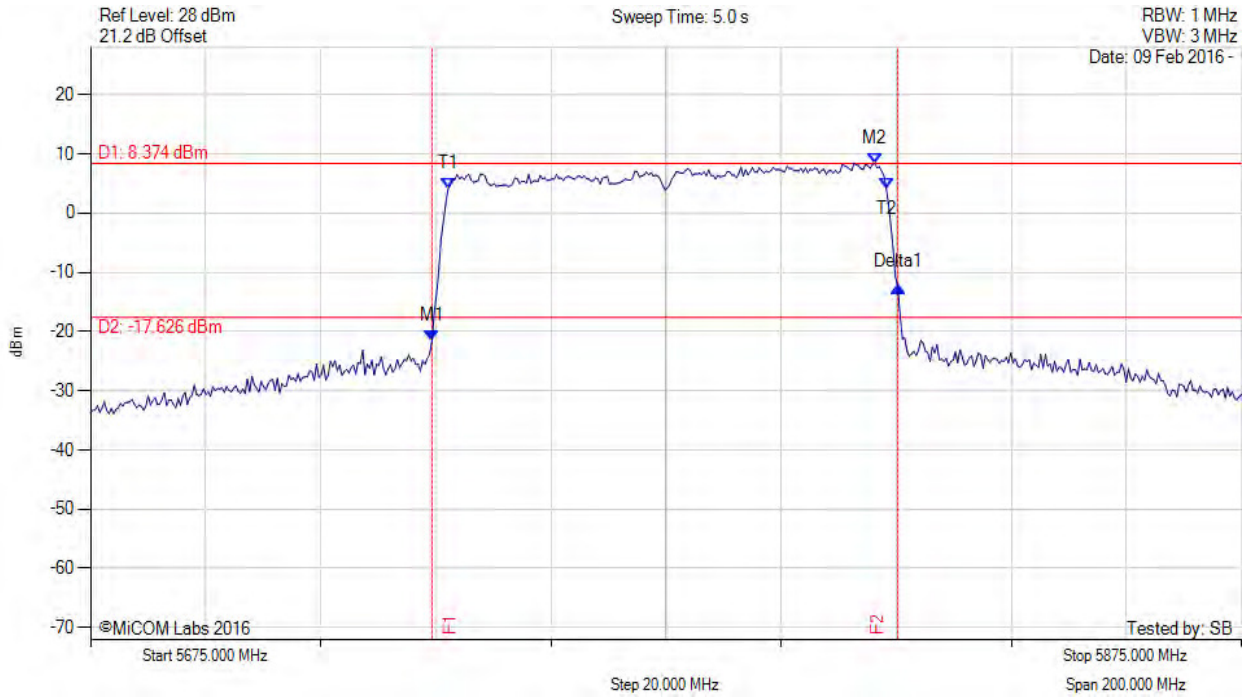
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -20.015 dBm M2 : 5809.669 MHz : 9.393 dBm Delta1 : 80.561 MHz : 10.811 dB T1 : 5737.124 MHz : 4.270 dBm T2 : 5813.277 MHz : 4.636 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.319 MHz : -21.676 dBm M2 : 5811.273 MHz : 8.374 dBm Delta1 : 80.962 MHz : 9.266 dB T1 : 5737.124 MHz : 4.067 dBm T2 : 5813.277 MHz : 4.260 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

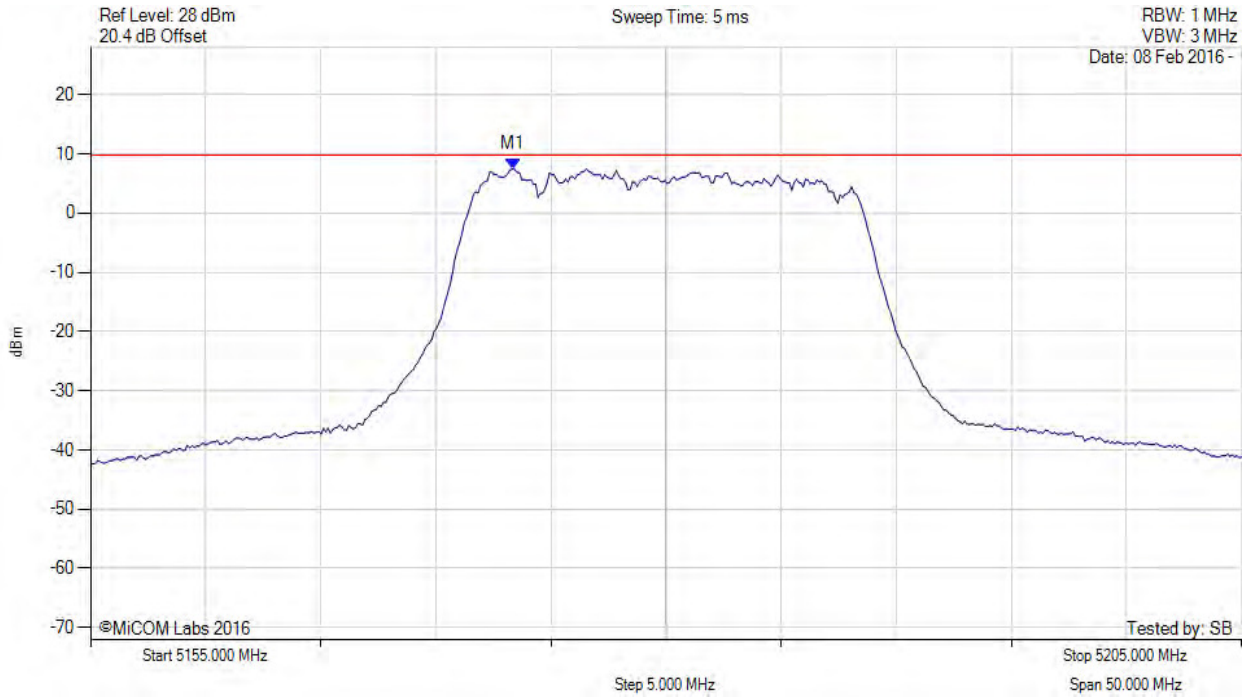
back to matrix

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A.2. Power Spectral Density

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



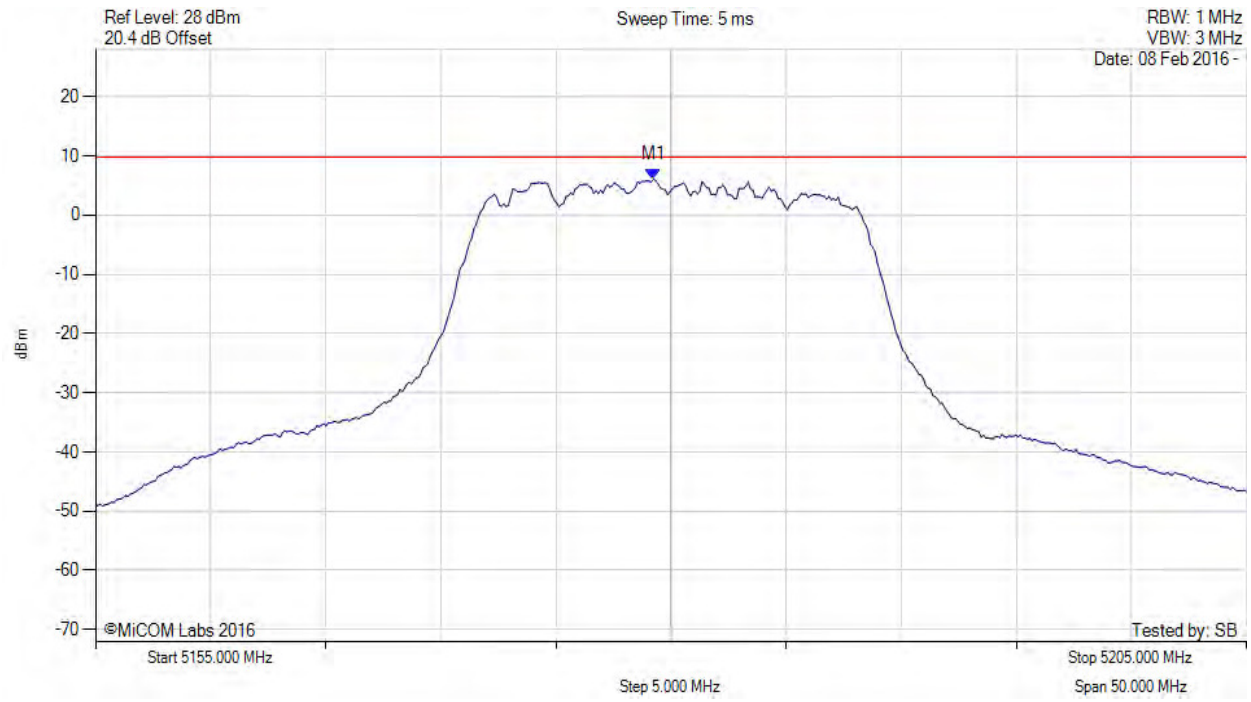
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5173.337 MHz : 7.456 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



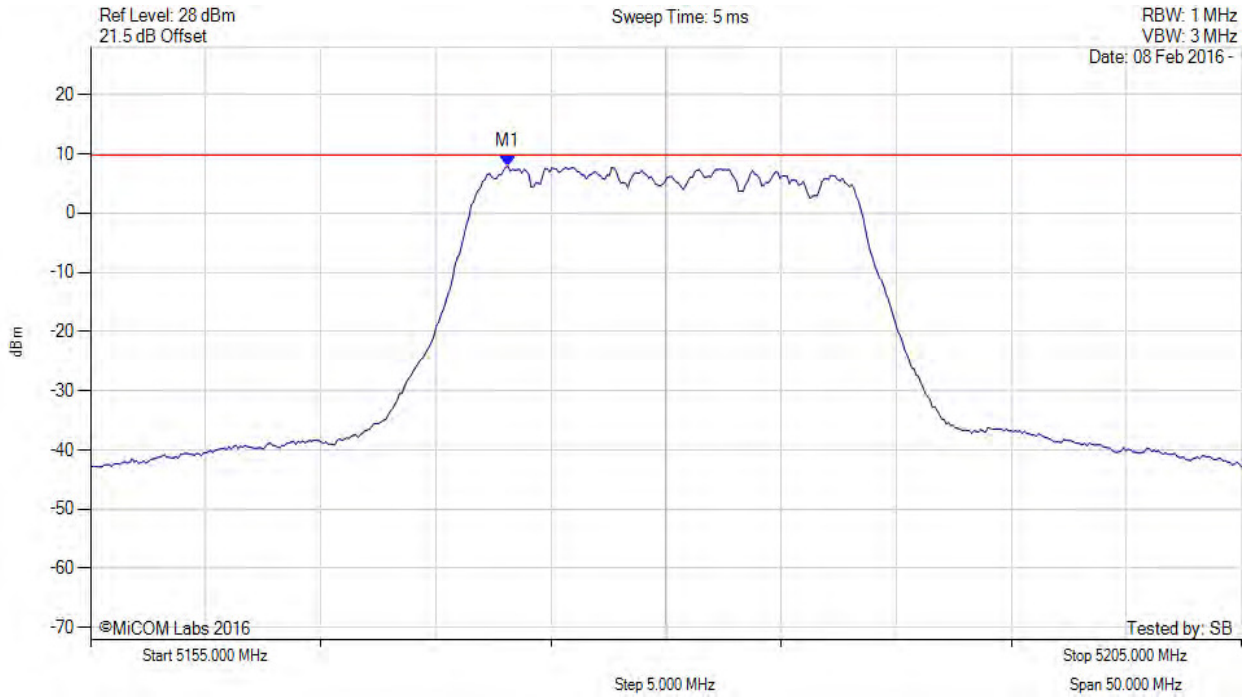
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5179.248 MHz : 6.095 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



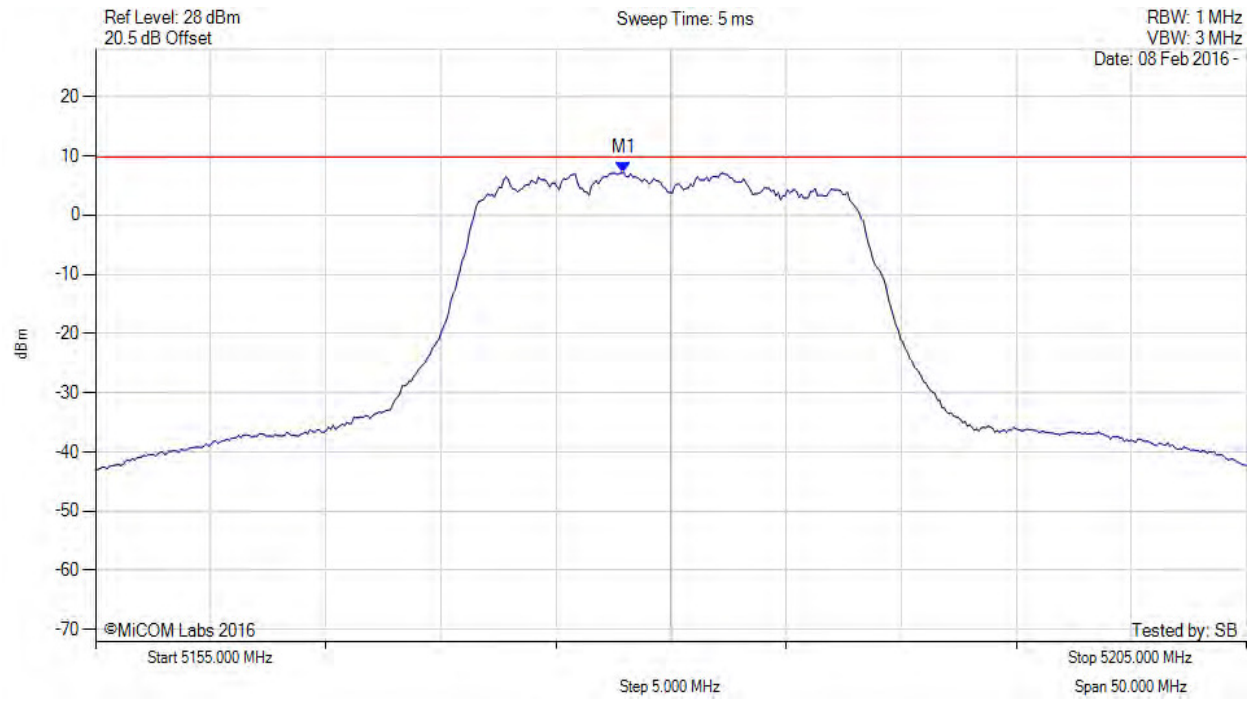
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5173.136 MHz : 7.879 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



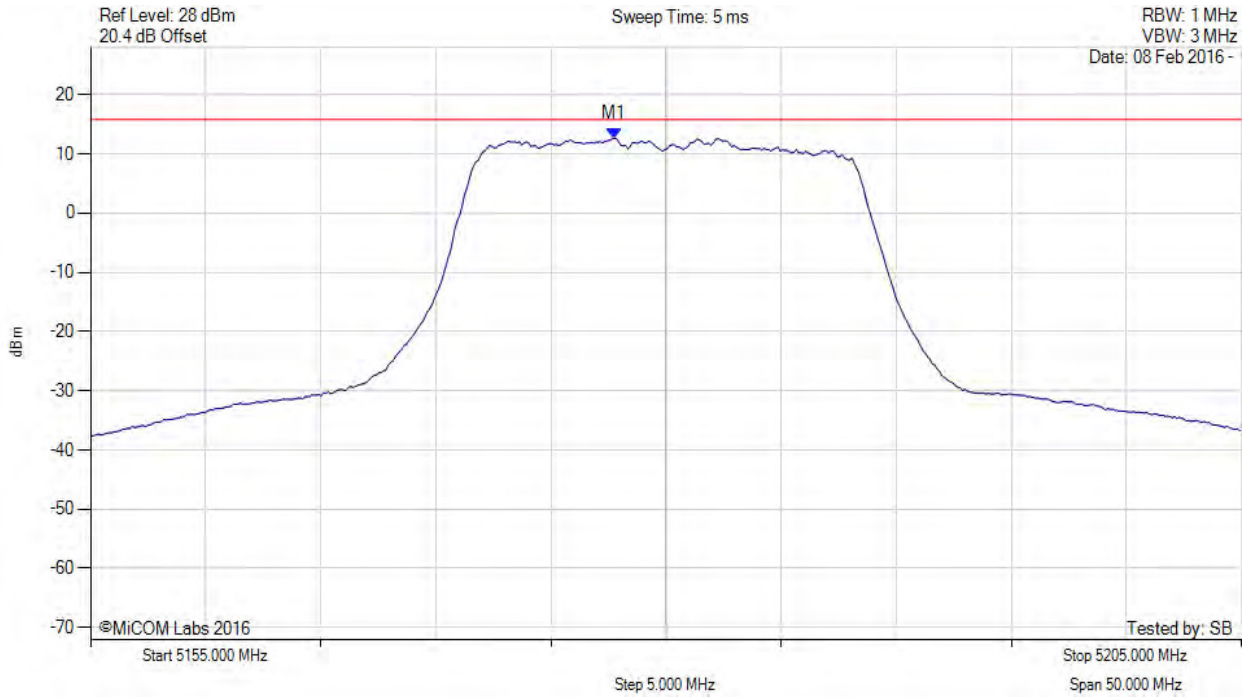
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5177.946 MHz : 7.175 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



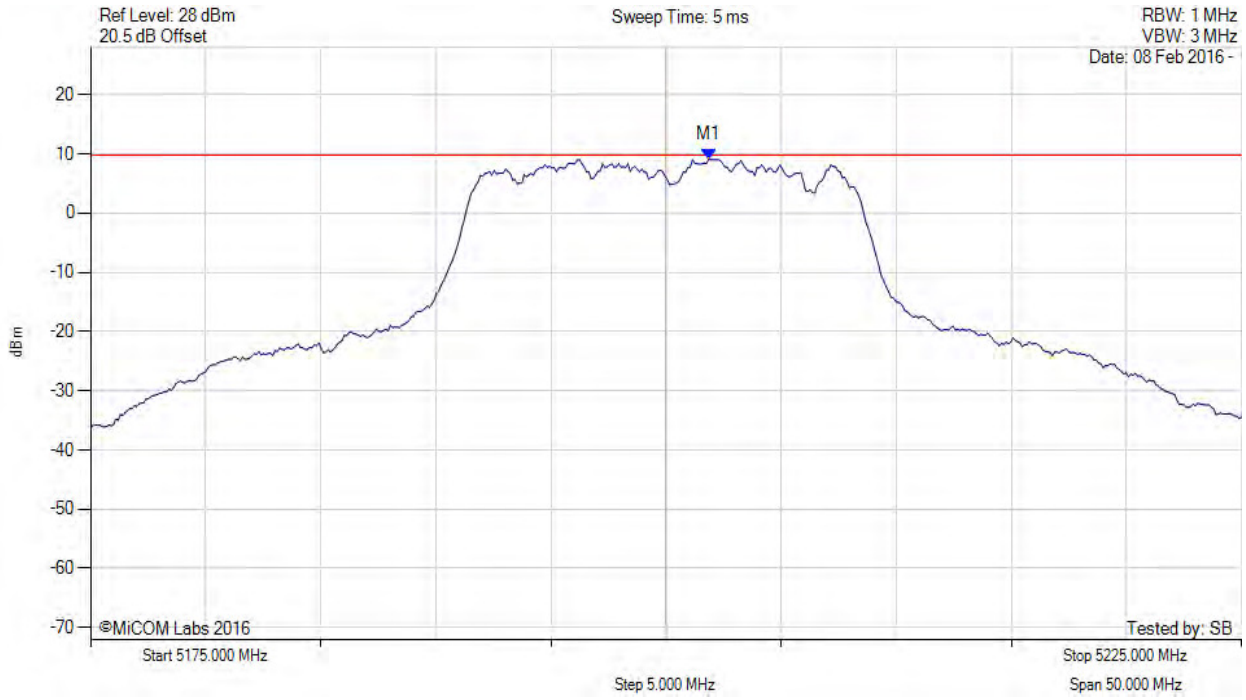
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5177.700 MHz : 12.644 dBm M1 + DCCF : 5177.700 MHz : 12.776 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 15.8 dBm Margin: -3.0 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



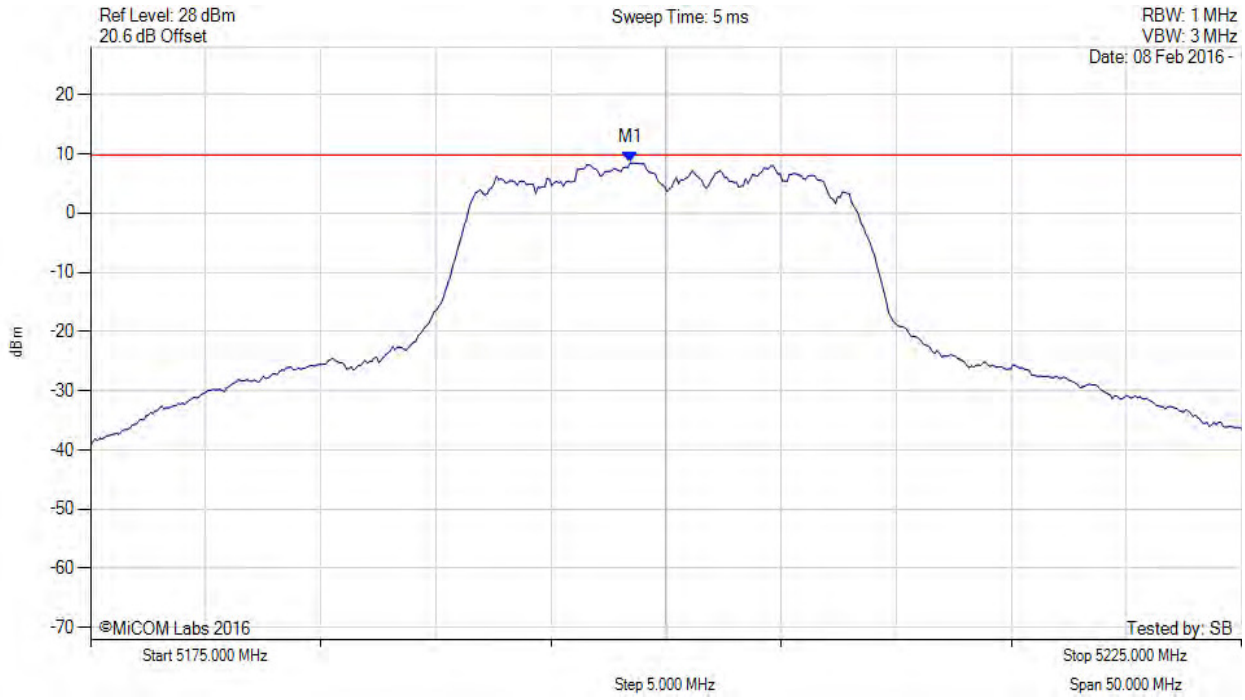
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5201.854 MHz : 9.098 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



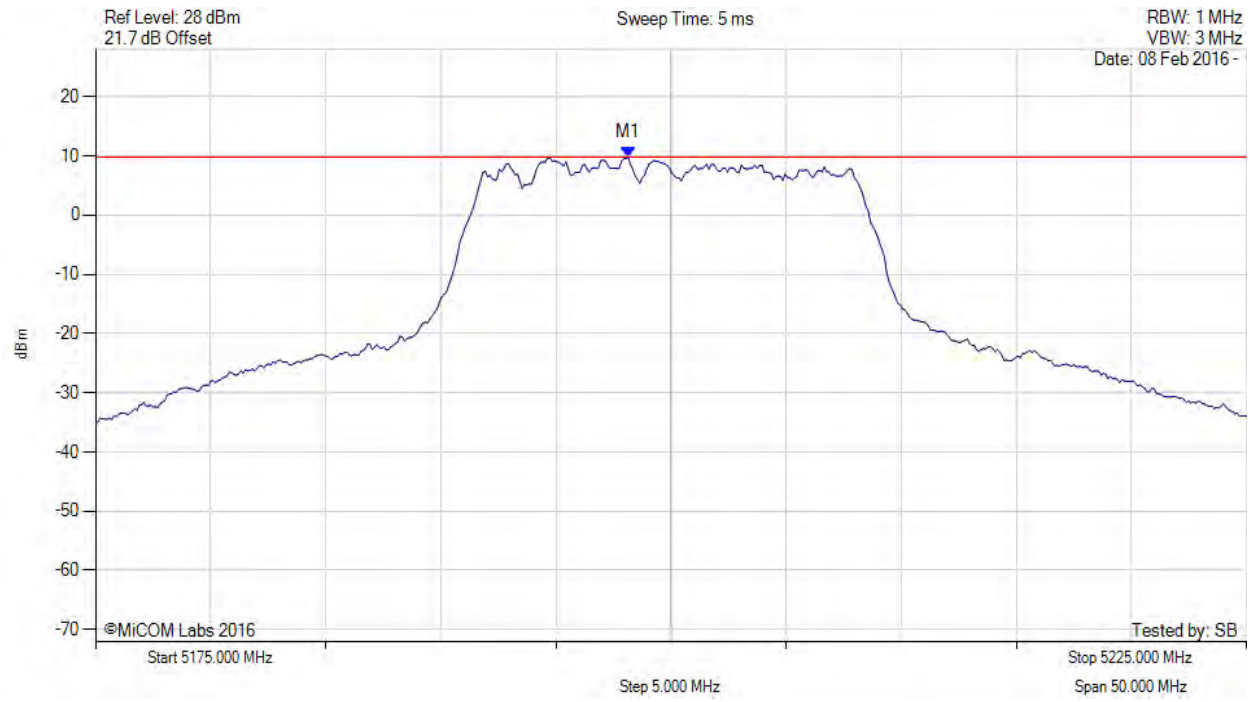
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5198.447 MHz : 8.494 dBm	Channel Frequency: 5200.00 MHz

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



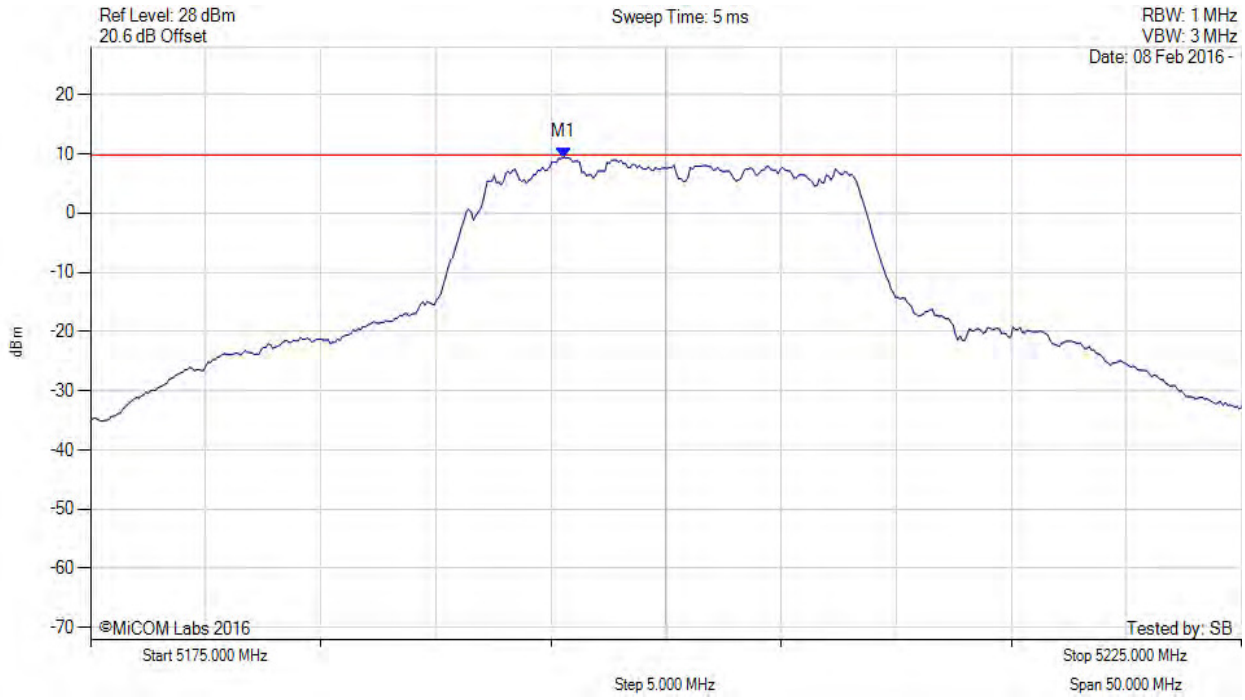
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5198.146 MHz : 9.697 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



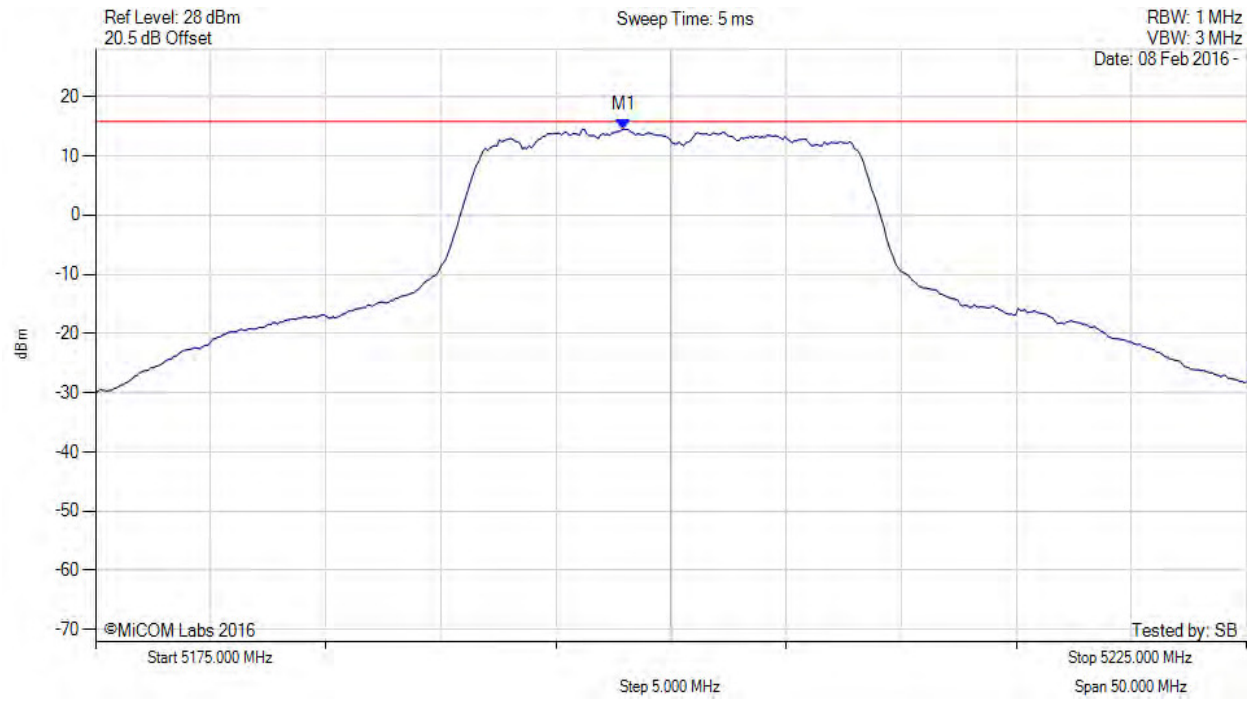
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5195.541 MHz : 9.395 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



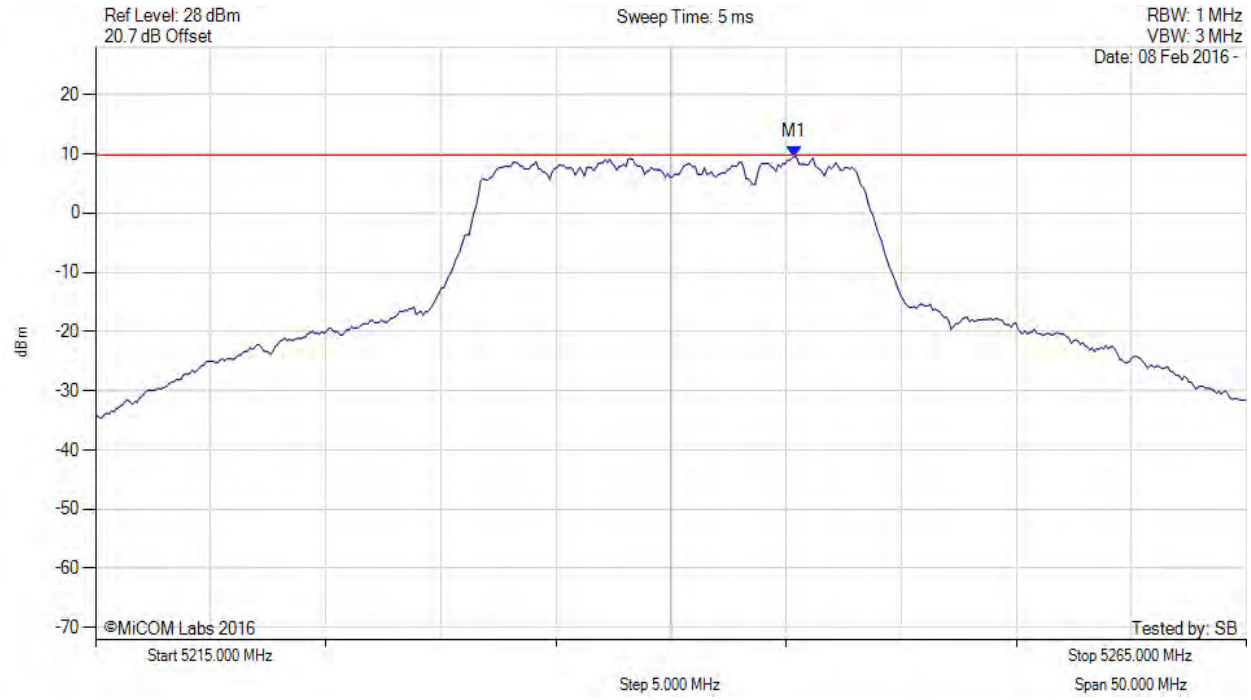
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5197.900 MHz : 14.513 dBm M1 + DCCF : 5197.900 MHz : 14.645 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 15.8 dBm Margin: -1.2 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



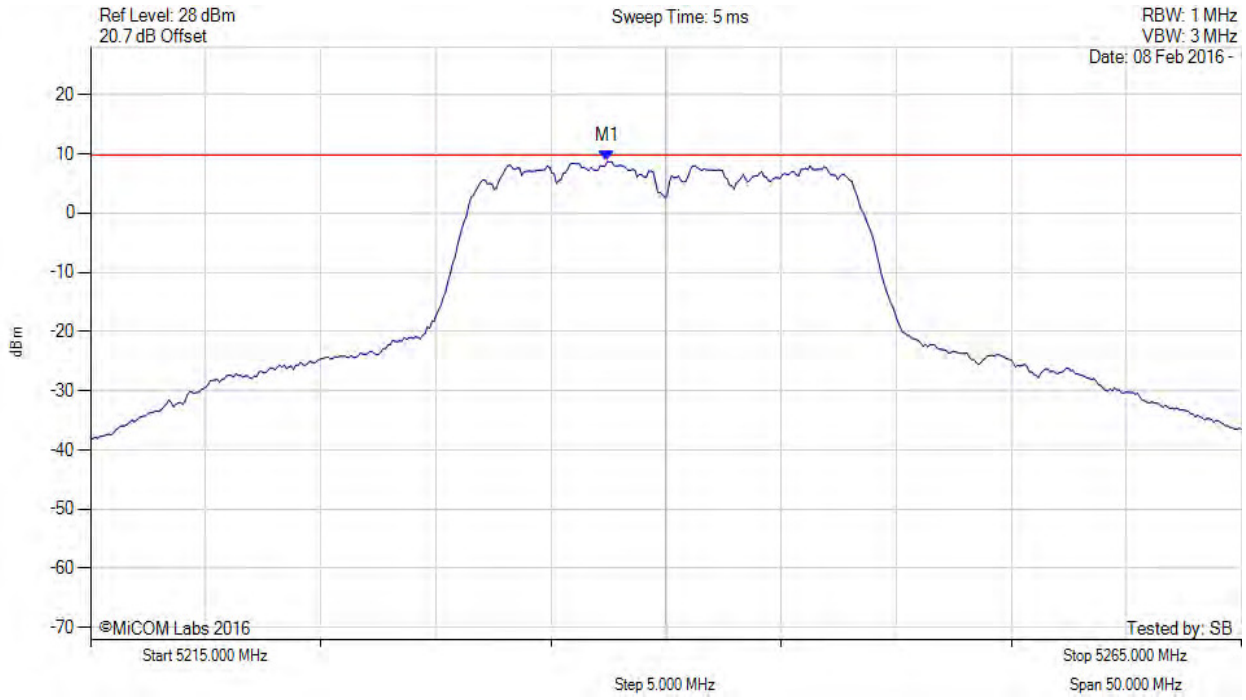
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.361 MHz : 9.566 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



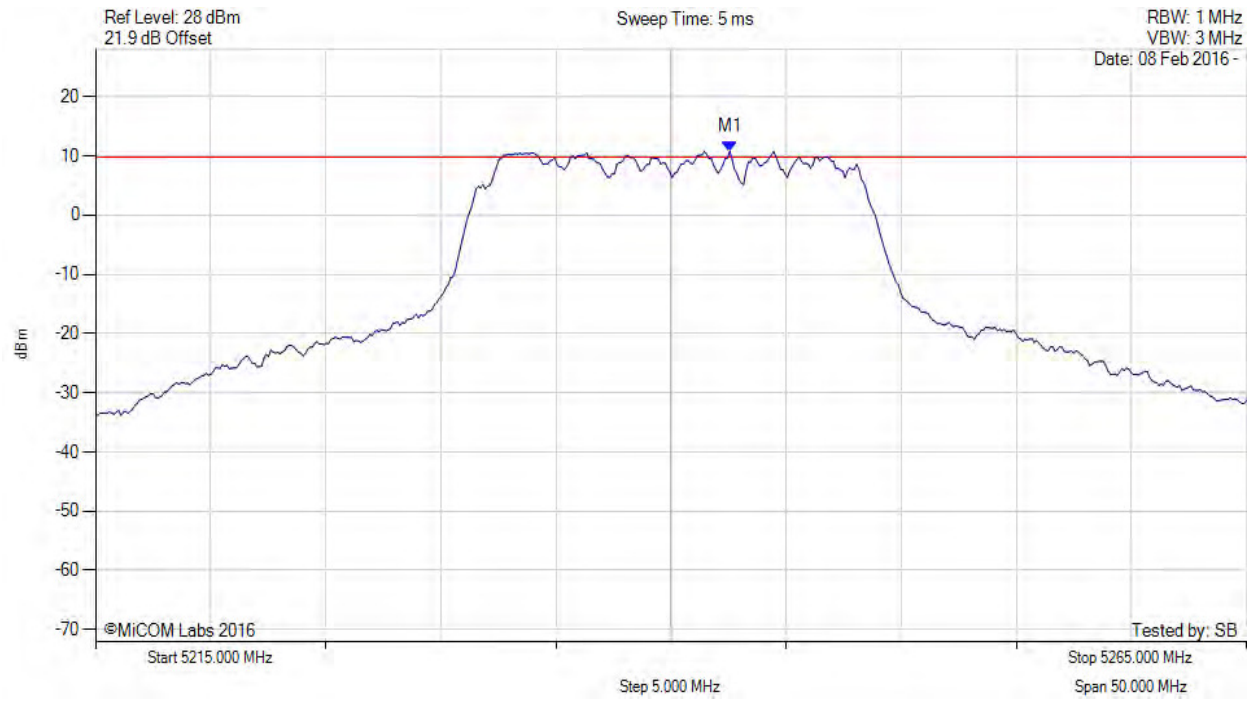
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5237.445 MHz : 8.716 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



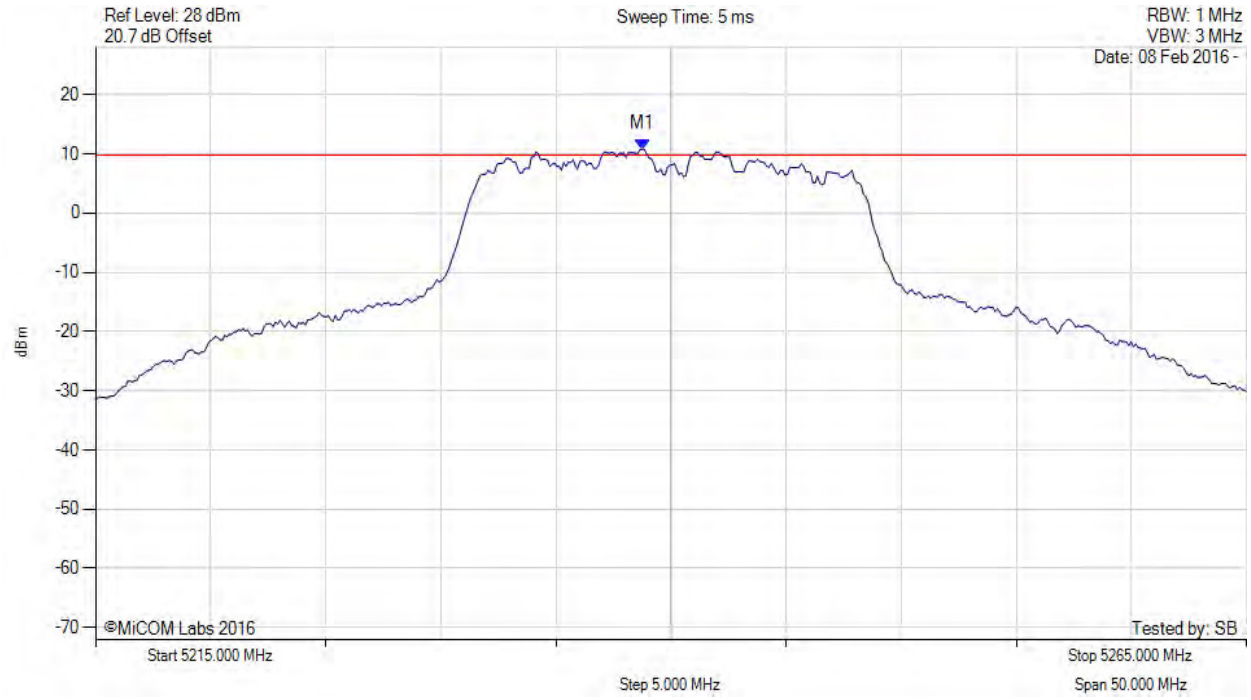
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5242.555 MHz : 10.775 dBm	Limit: ≤ 9.780 dBm

back to matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



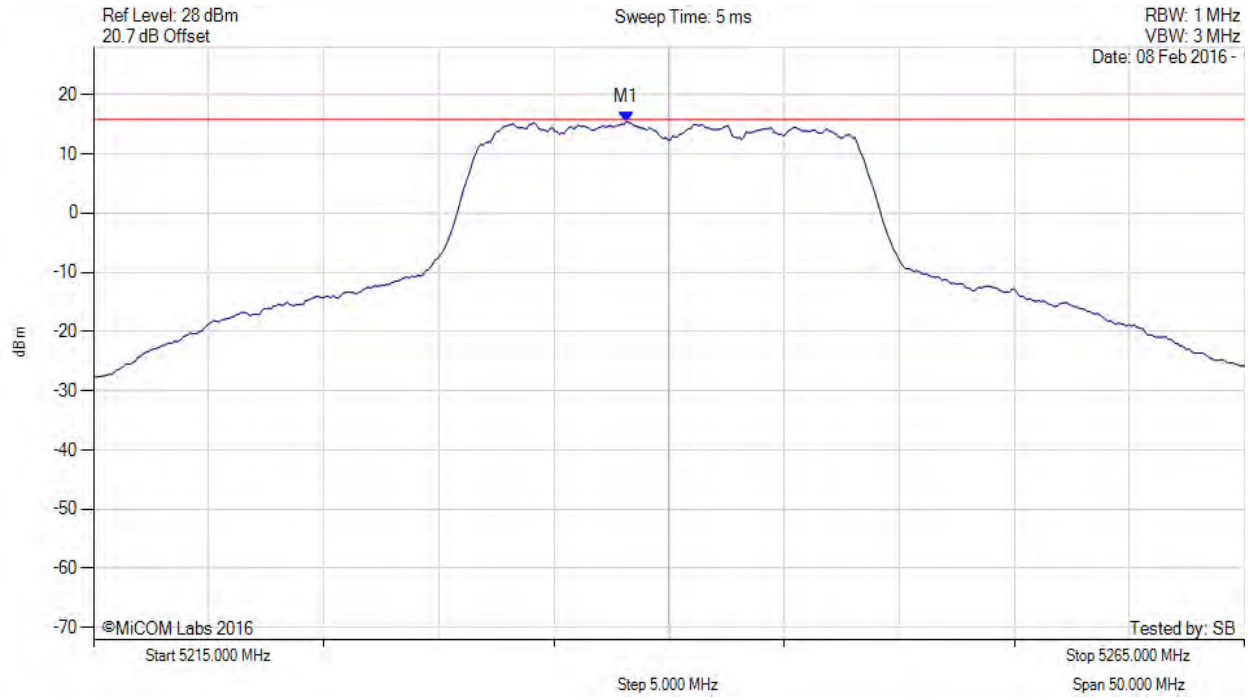
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5238.747 MHz : 10.788 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



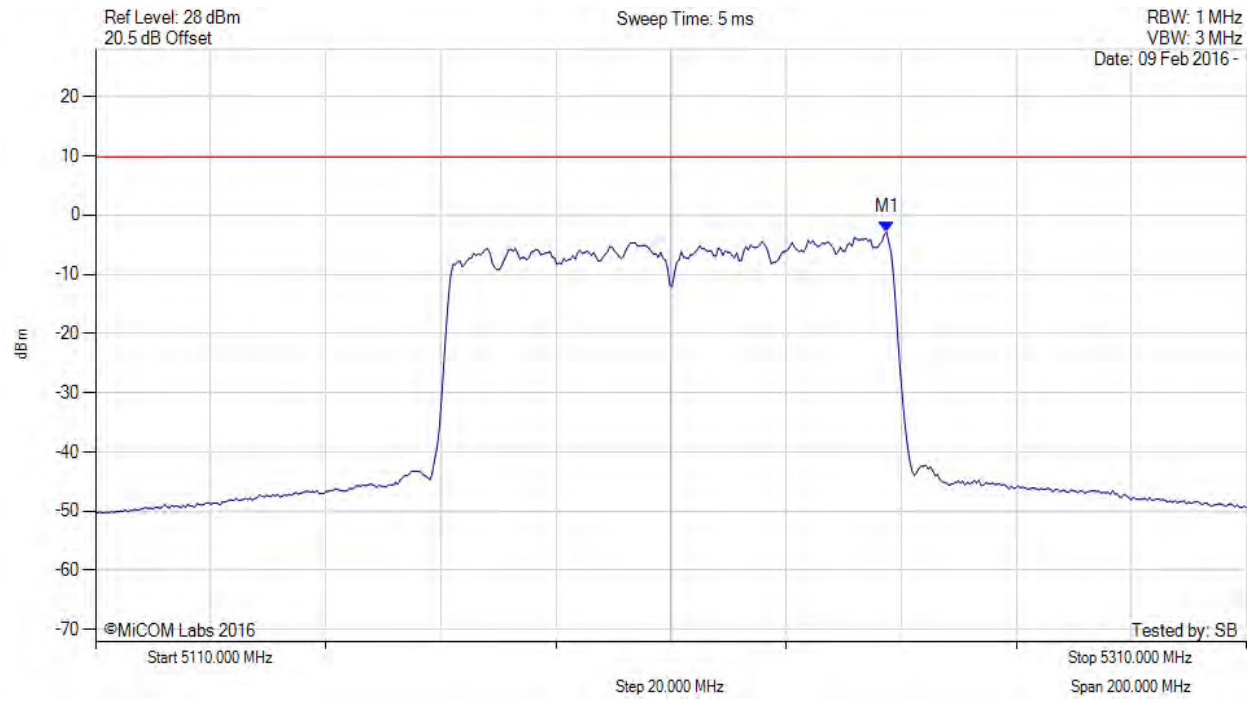
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5238.100 MHz : 15.434 dBm M1 + DCCF : 5238.100 MHz : 15.566 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 15.8 dBm Margin: -0.3 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



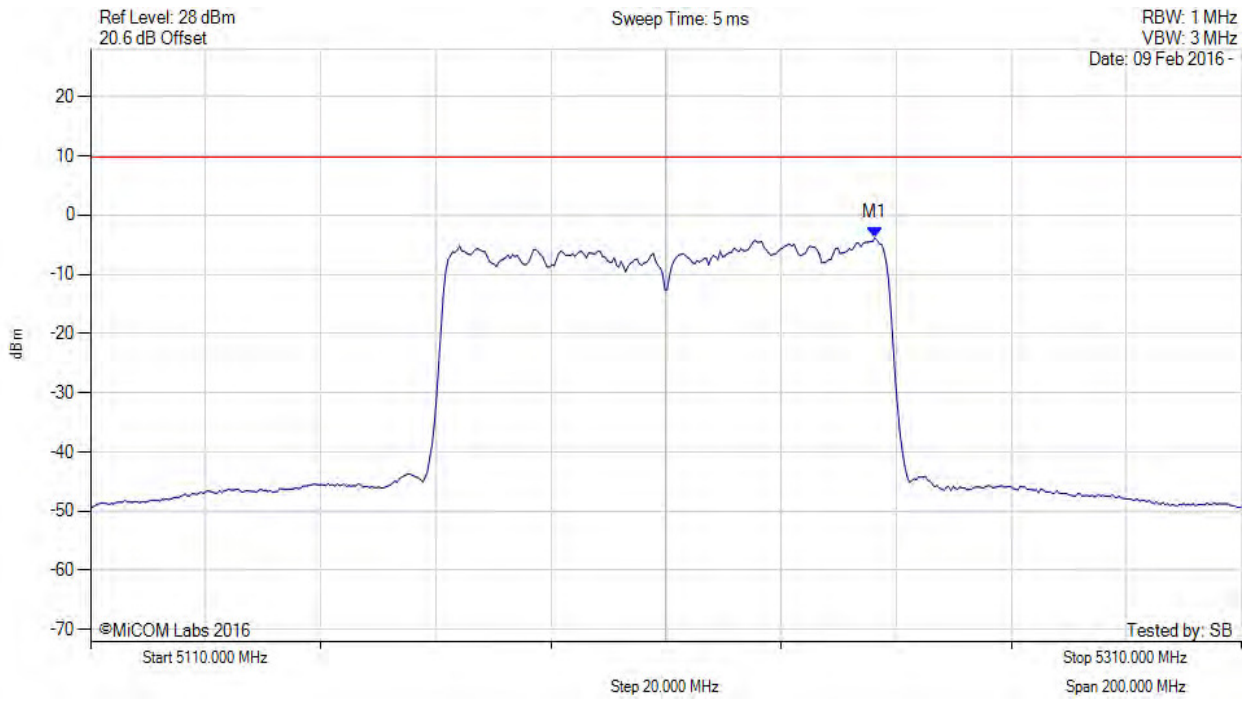
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.475 MHz : -2.871 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



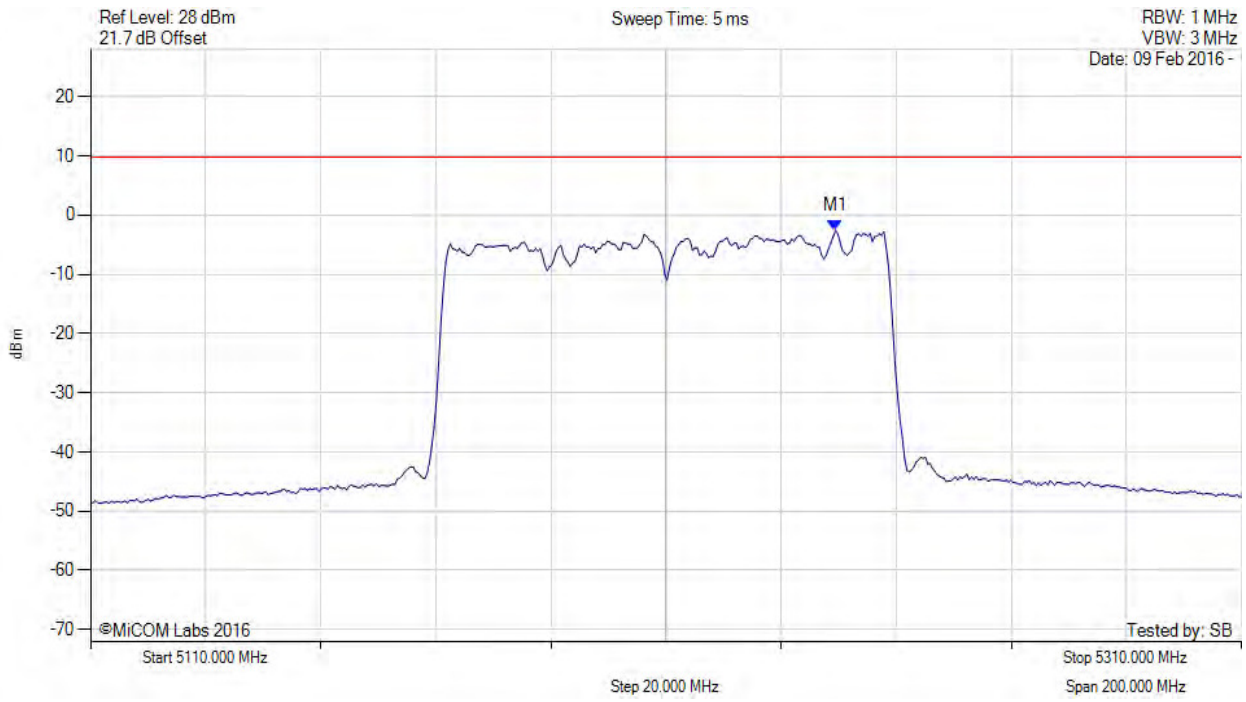
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5246.273 MHz : -3.850 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



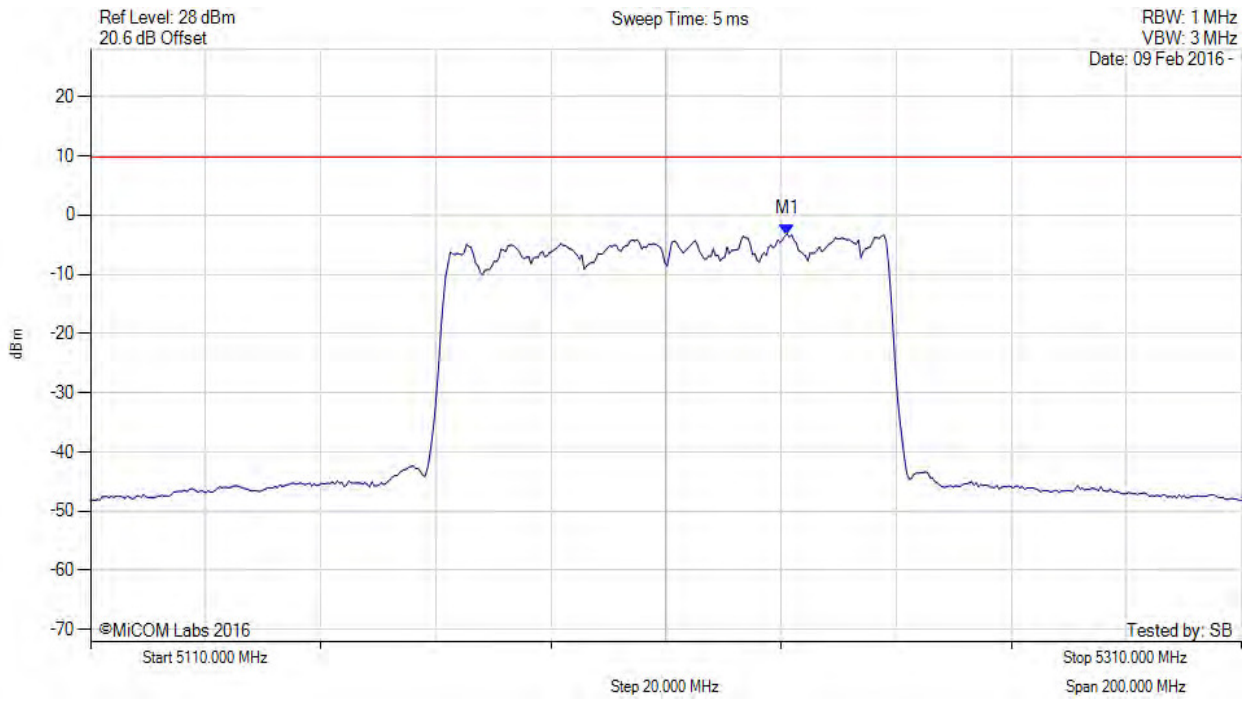
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5239.459 MHz : -2.617 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



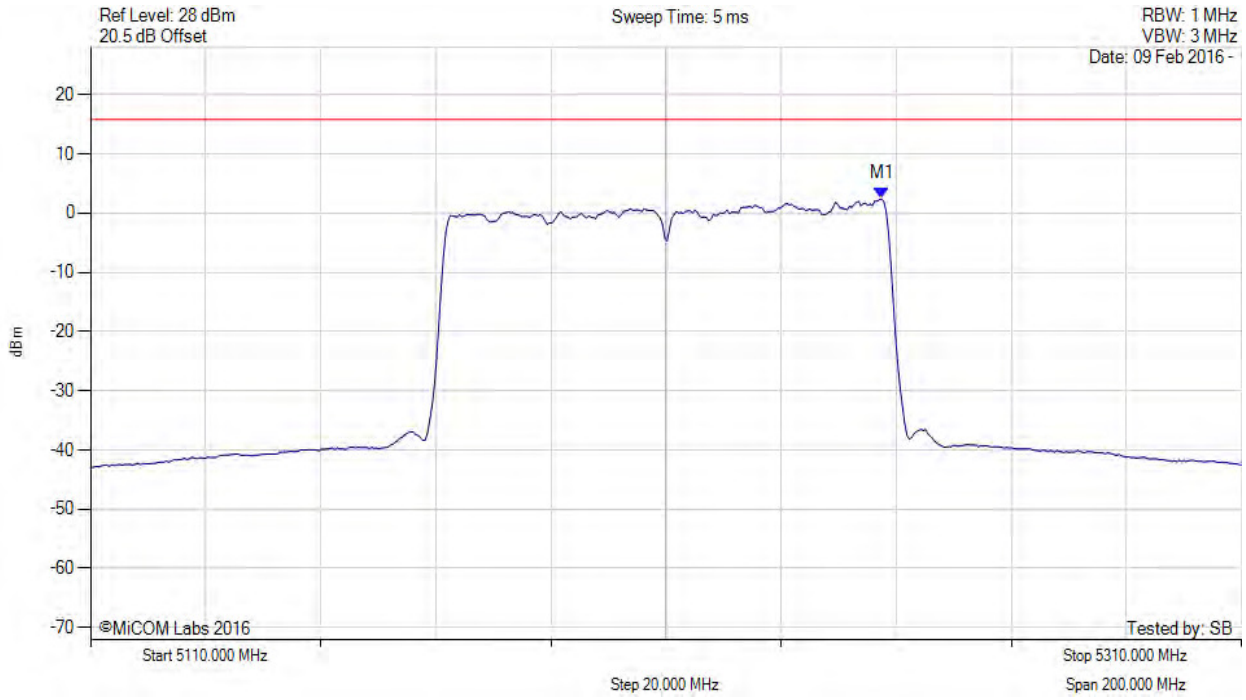
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5231.042 MHz : -3.223 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



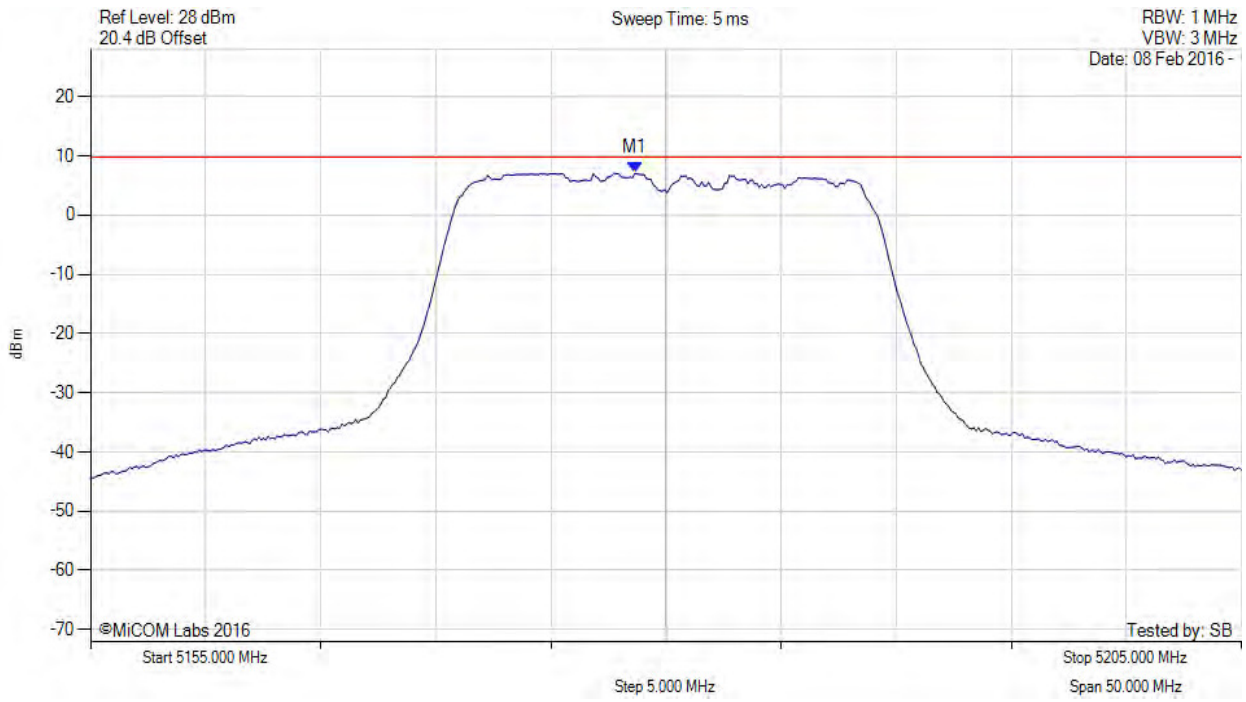
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.500 MHz : 2.401 dBm M1 + DCCF : 5247.500 MHz : 2.624 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 15.8 dBm Margin: -13.2 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



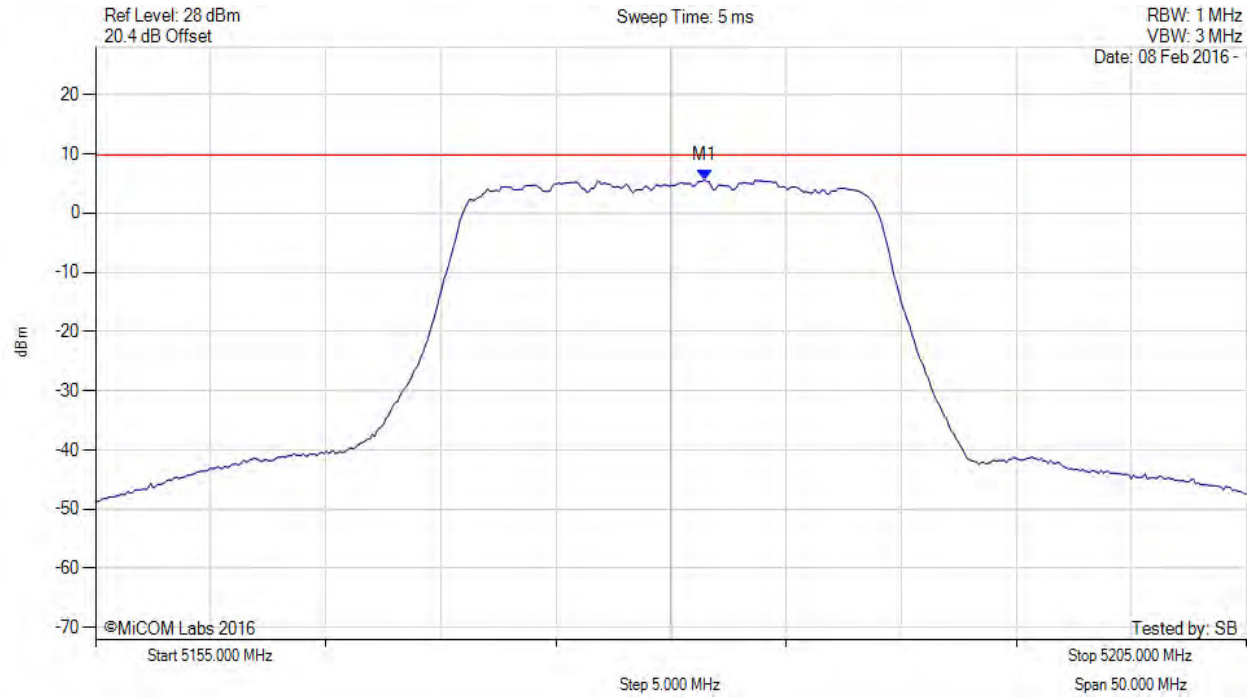
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5178.647 MHz : 7.081 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



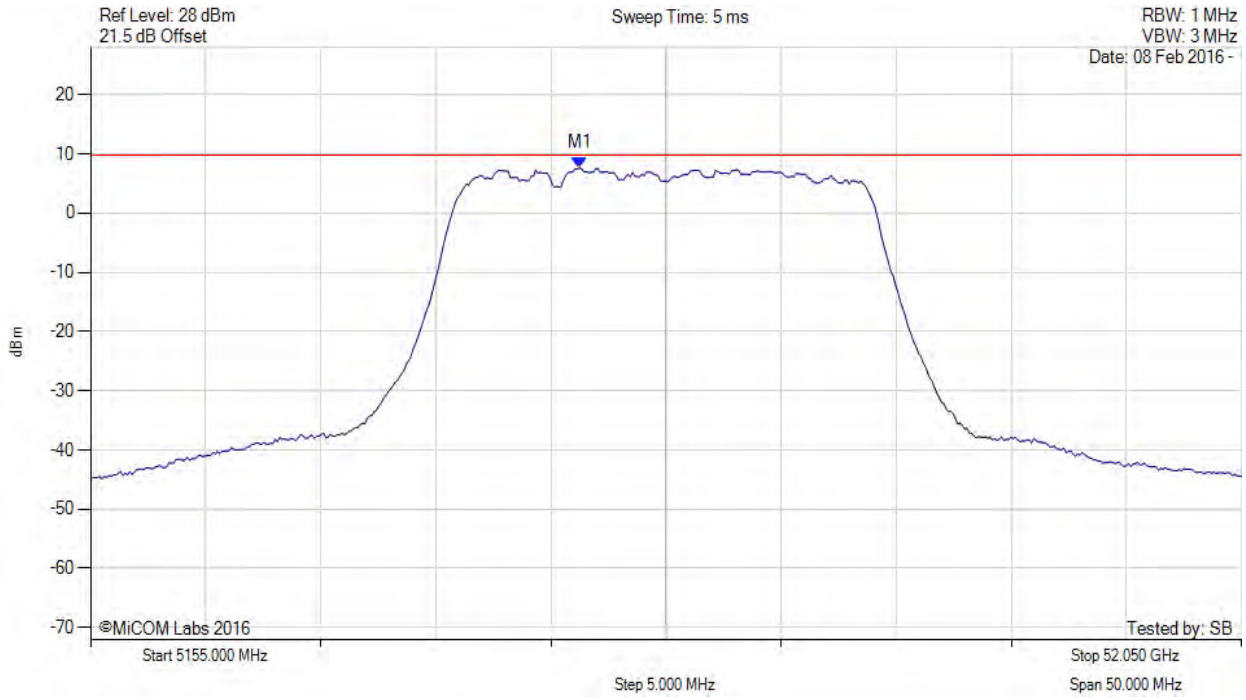
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5181.453 MHz : 5.630 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



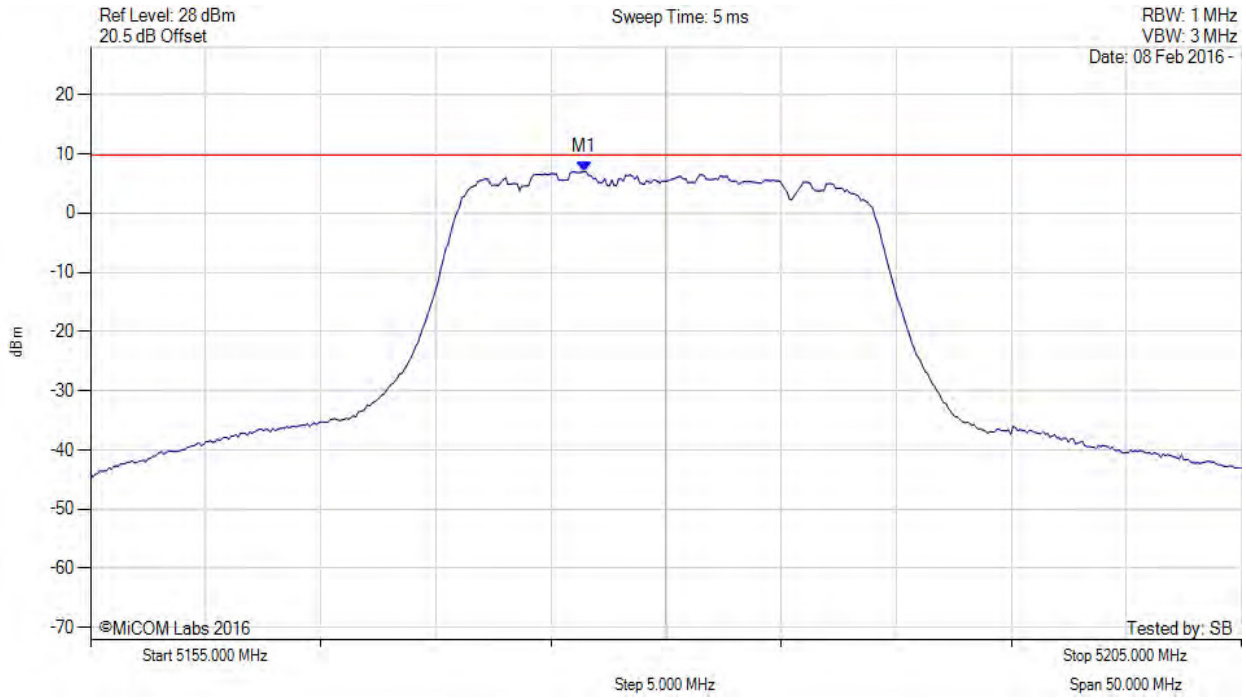
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5176.242 MHz : 7.637 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



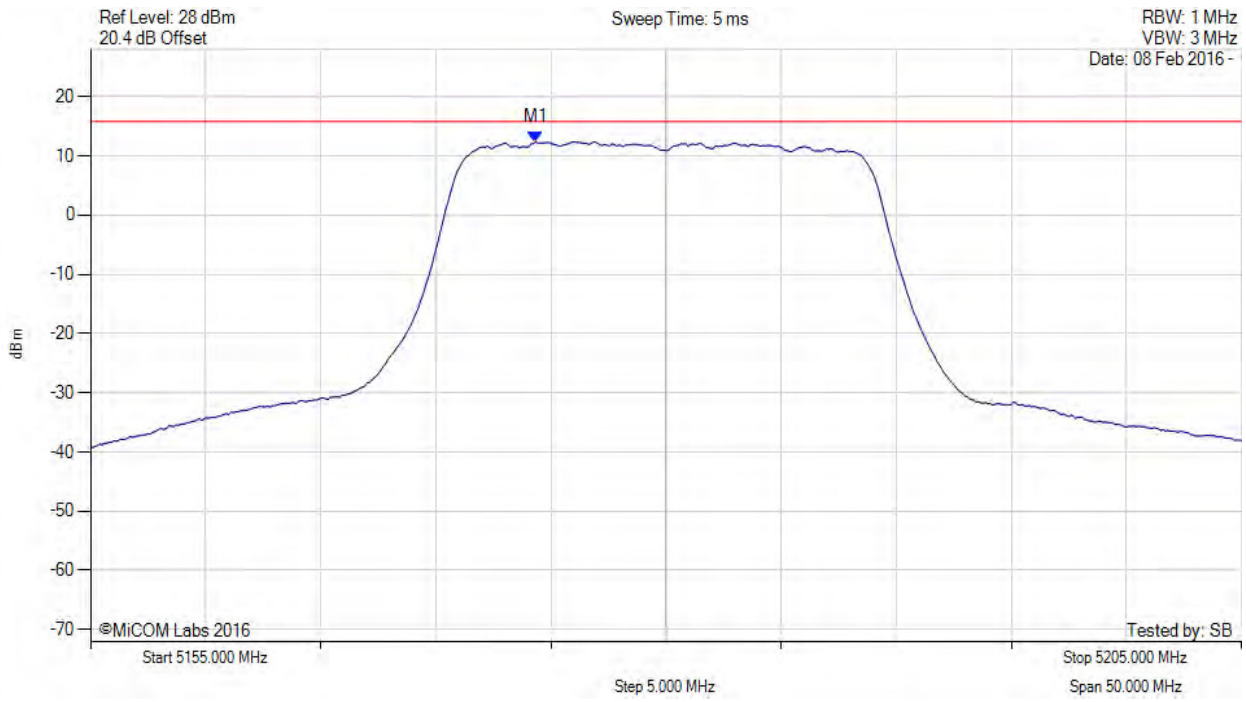
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5176.443 MHz : 6.998 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



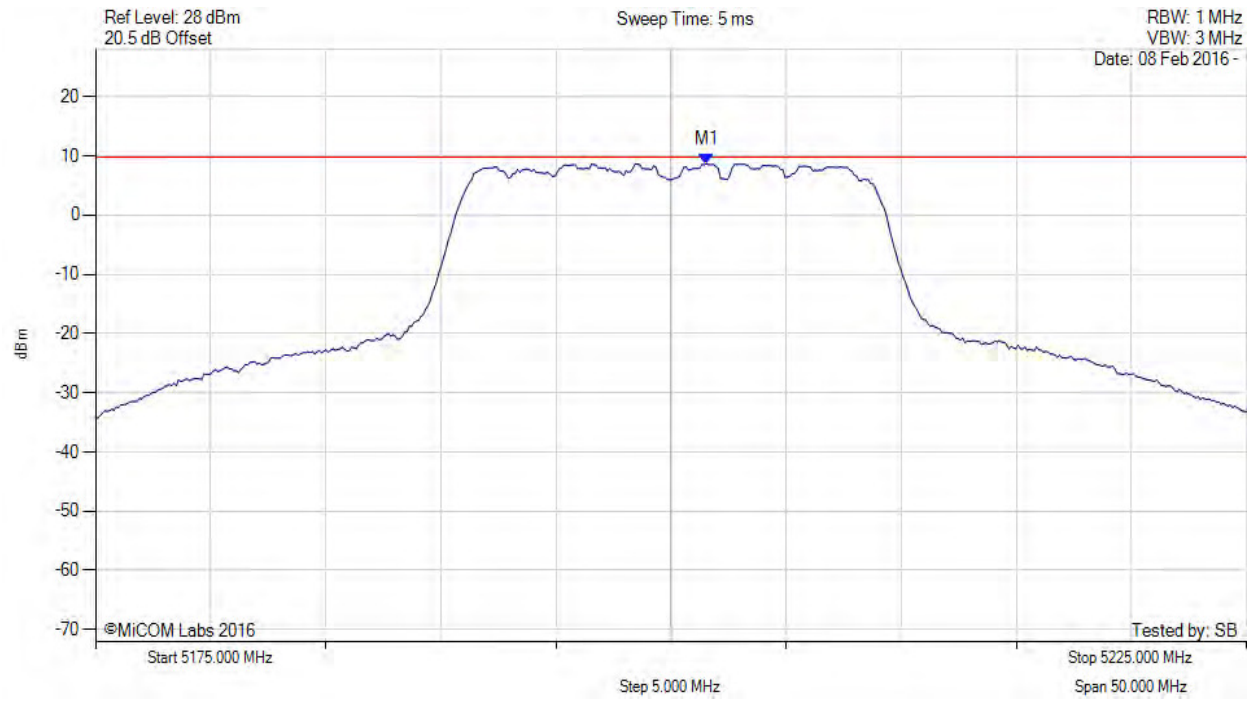
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5174.300 MHz : 12.390 dBm M1 + DCCF : 5174.300 MHz : 12.522 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 15.8 dBm Margin: -3.3 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



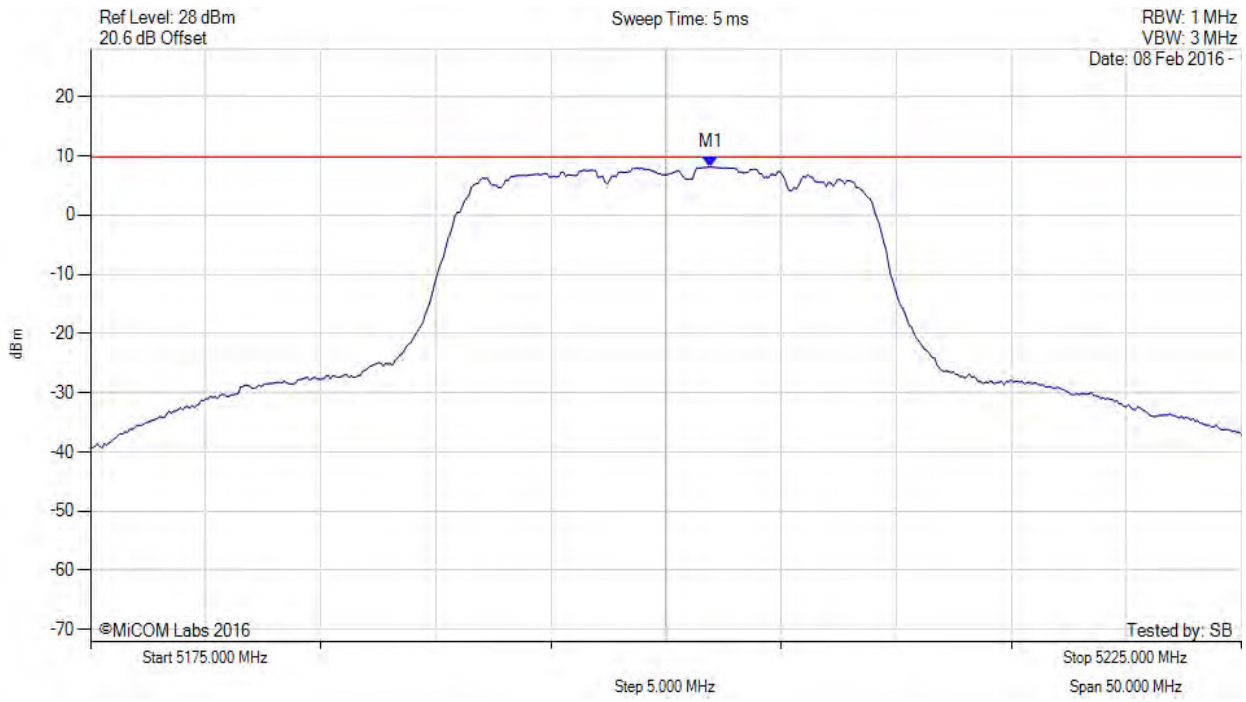
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5201.553 MHz : 8.661 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



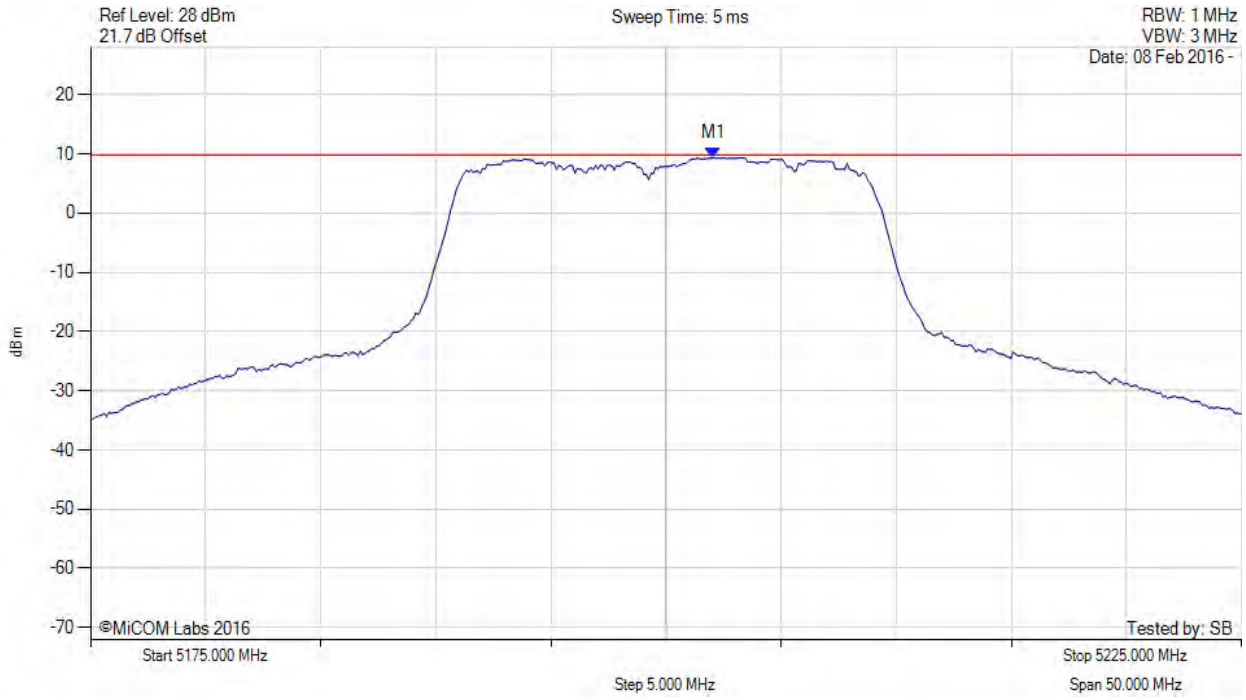
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5201.954 MHz : 8.121 dBm	Channel Frequency: 5200.00 MHz

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



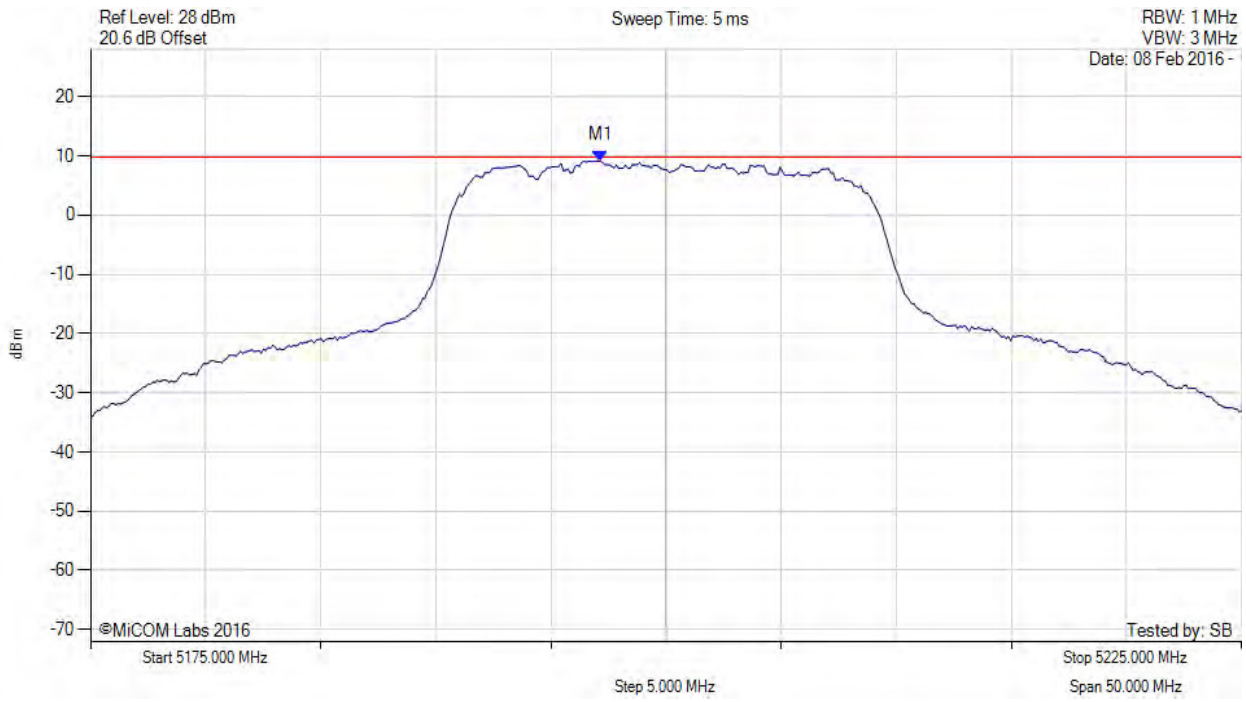
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5202.054 MHz : 9.348 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



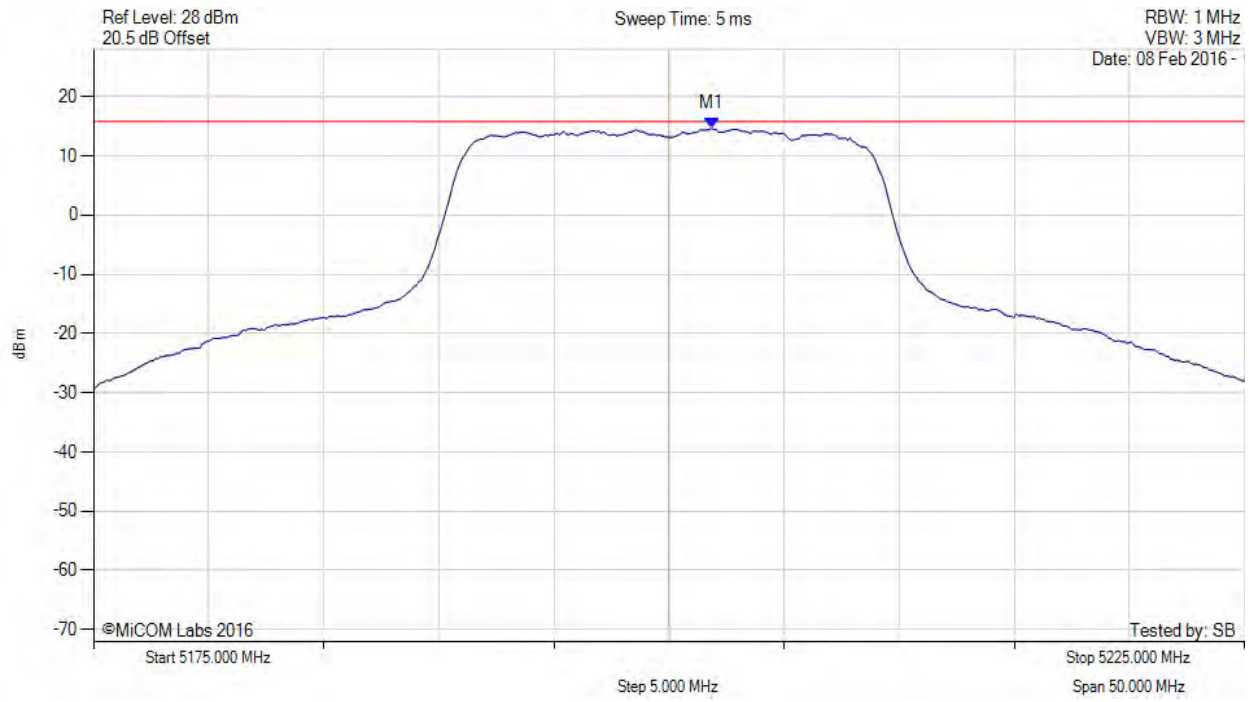
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5197.144 MHz : 9.160 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



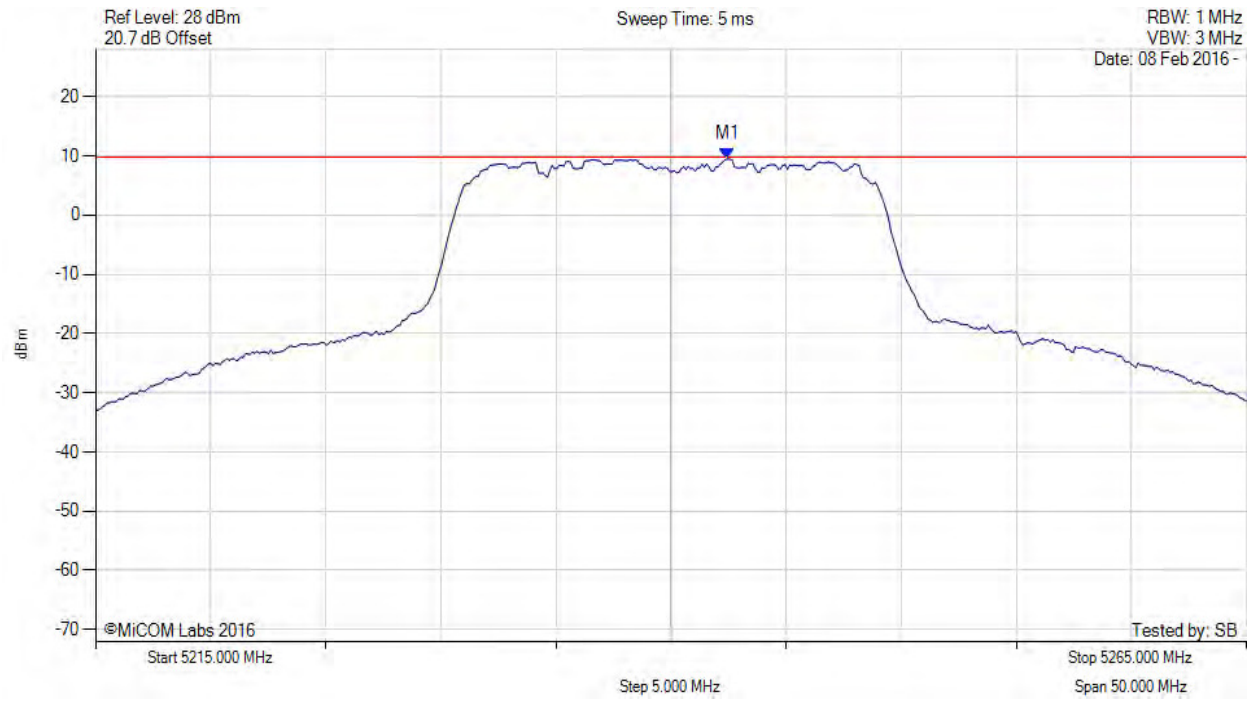
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5201.900 MHz : 14.650 dBm M1 + DCCF : 5201.900 MHz : 14.782 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 15.8 dBm Margin: -1.0 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



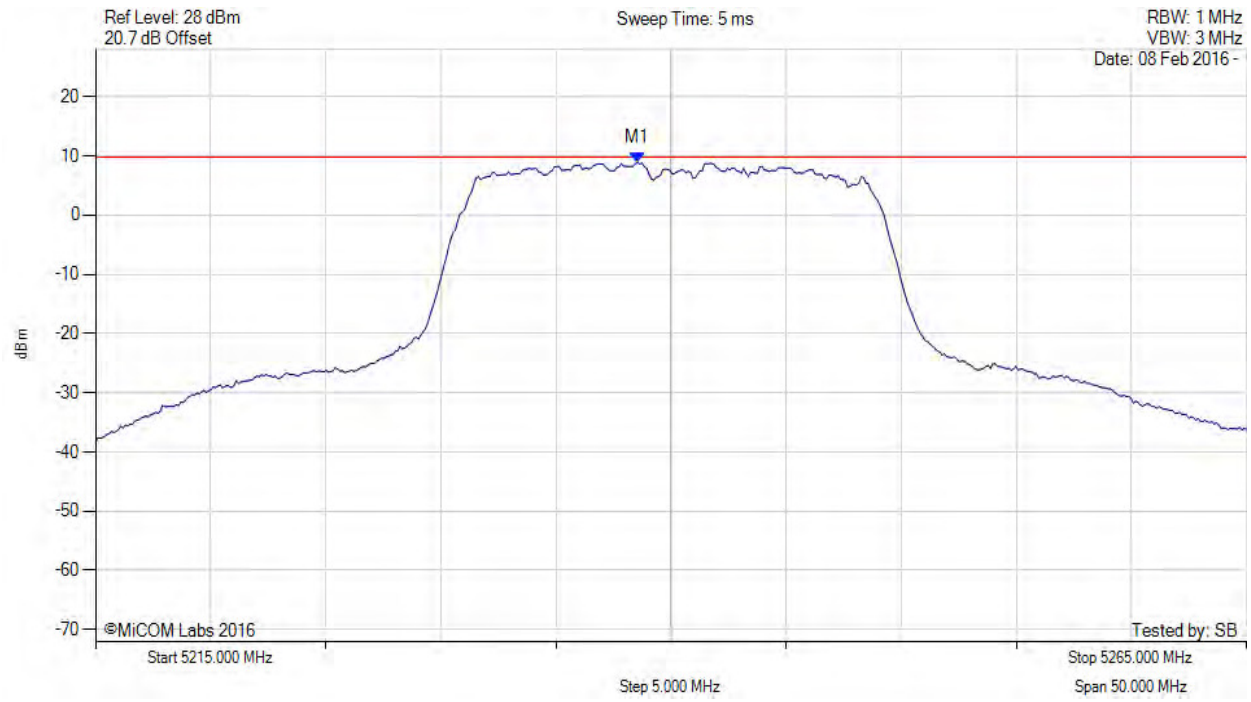
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5242.455 MHz : 9.477 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



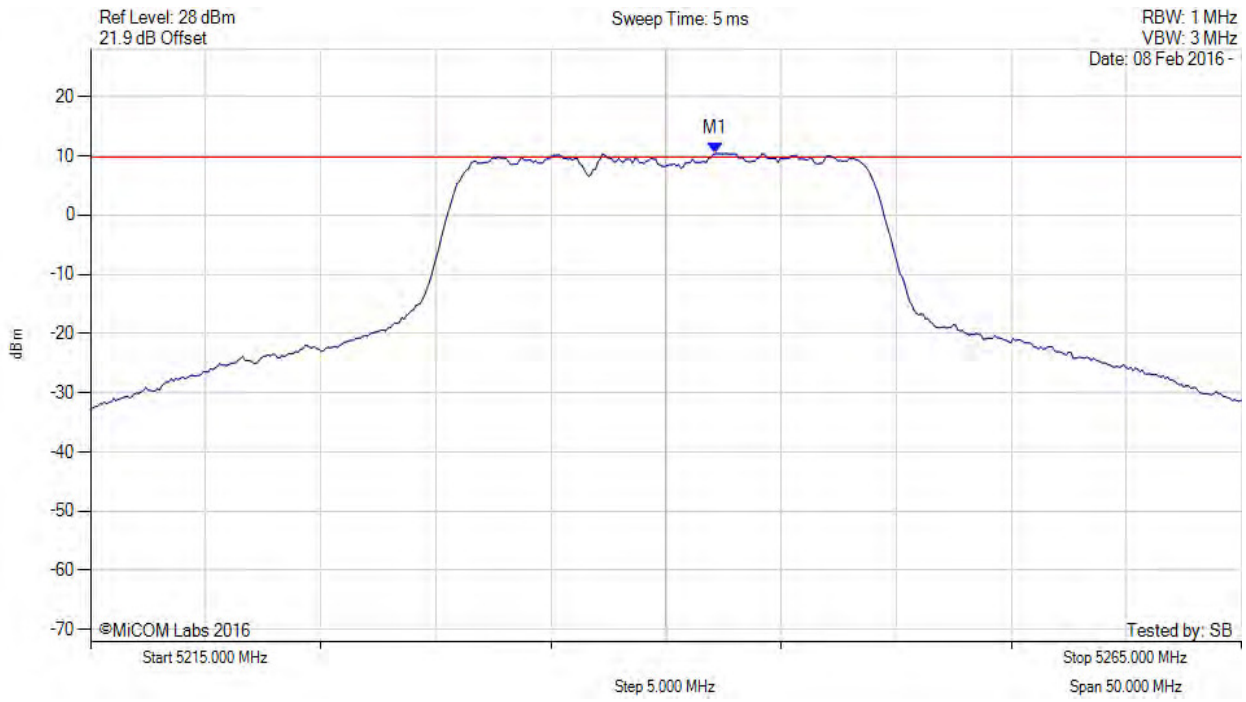
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5238.547 MHz : 8.842 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



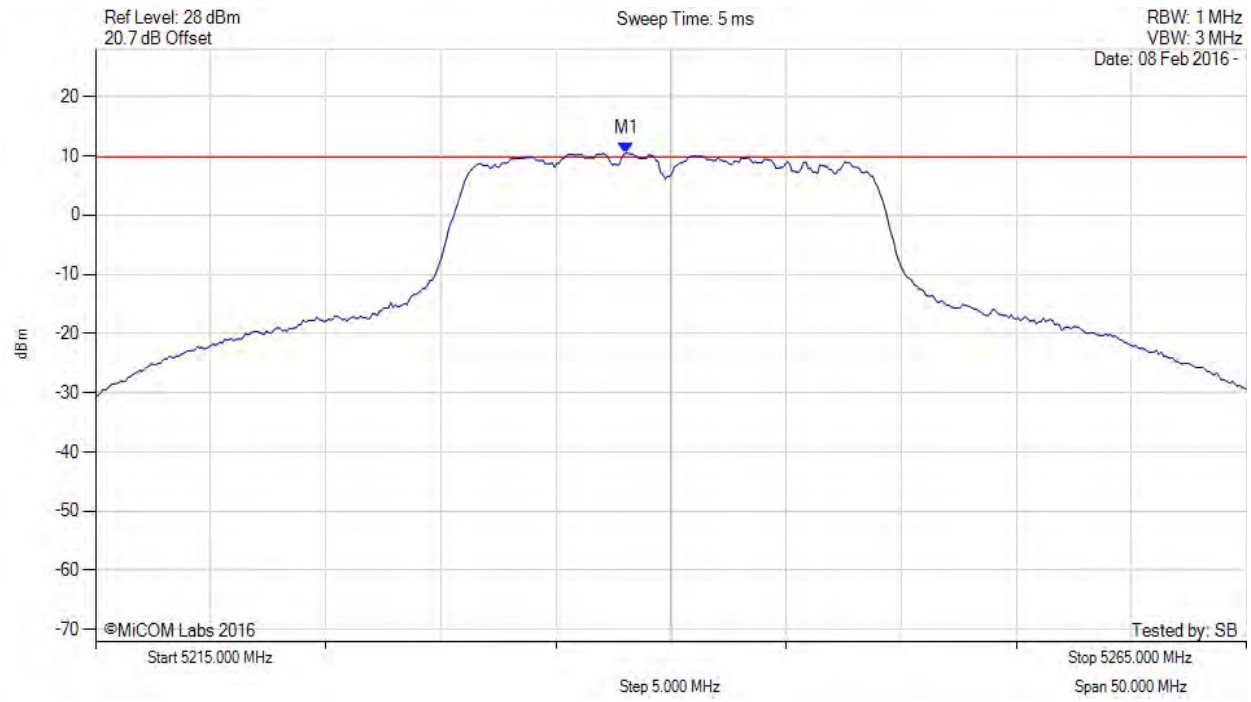
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5242.154 MHz : 10.410 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



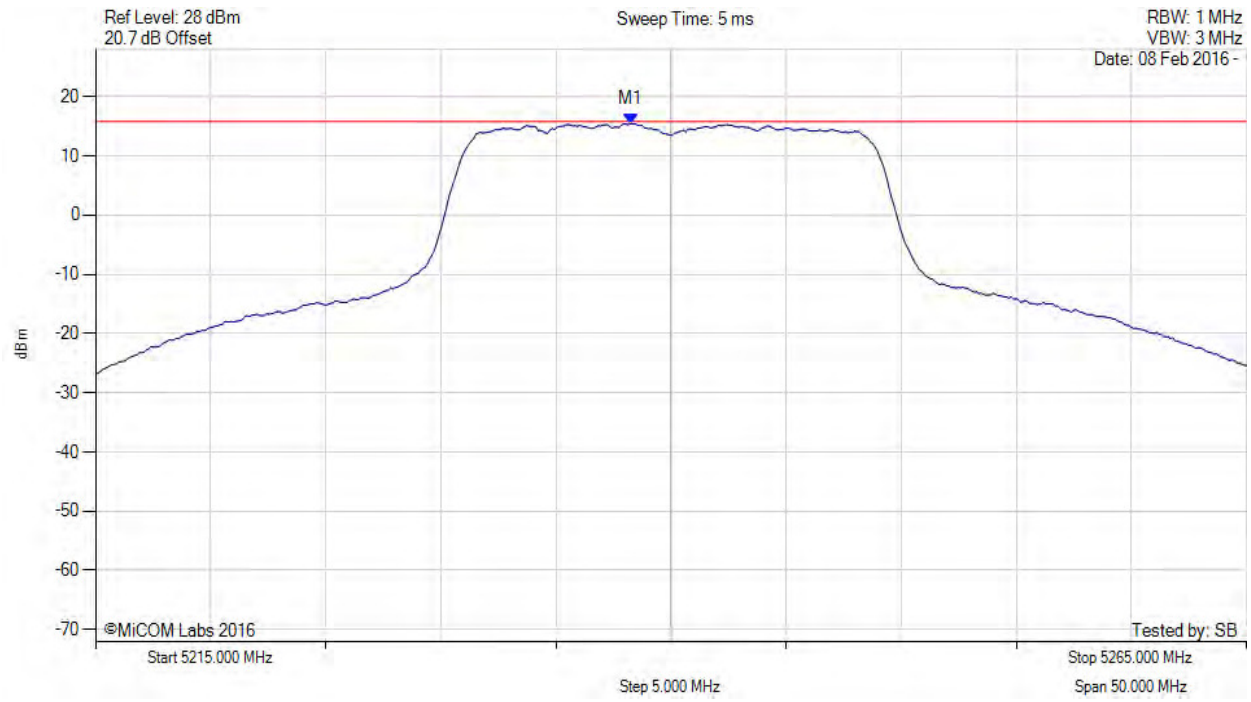
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5238.046 MHz : 10.443 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



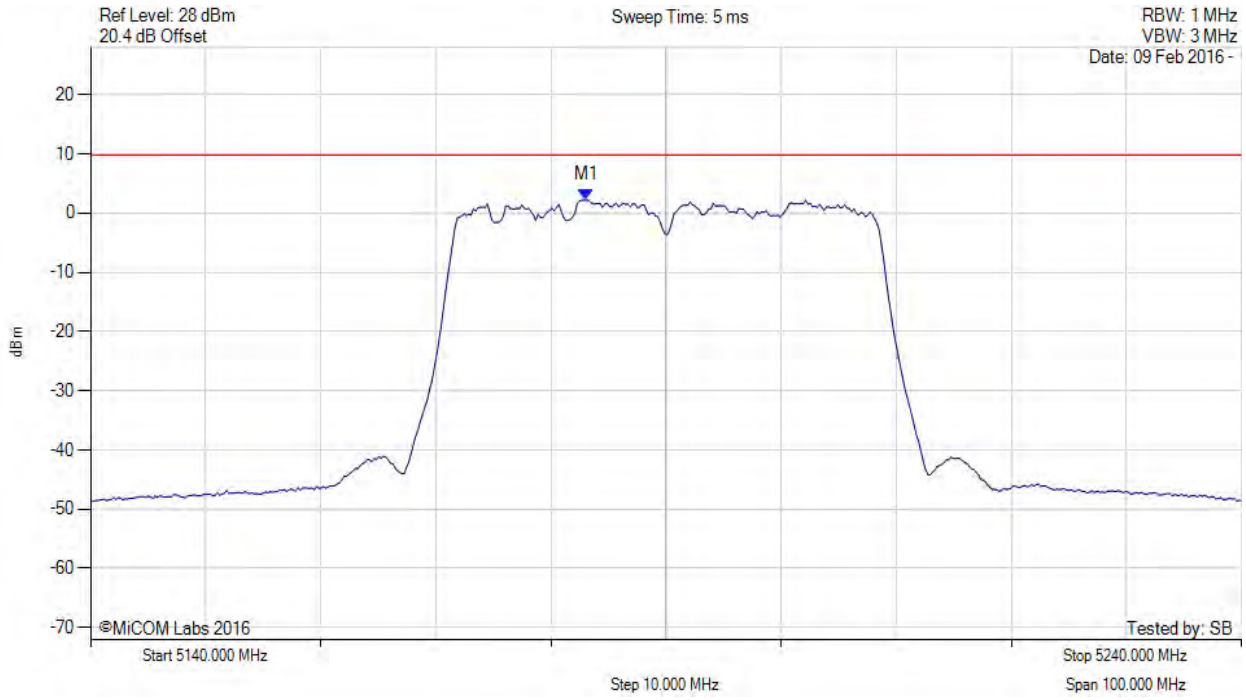
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5238.200 MHz : 15.434 dBm M1 + DCCF : 5238.200 MHz : 15.566 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 15.8 dBm Margin: -0.3 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



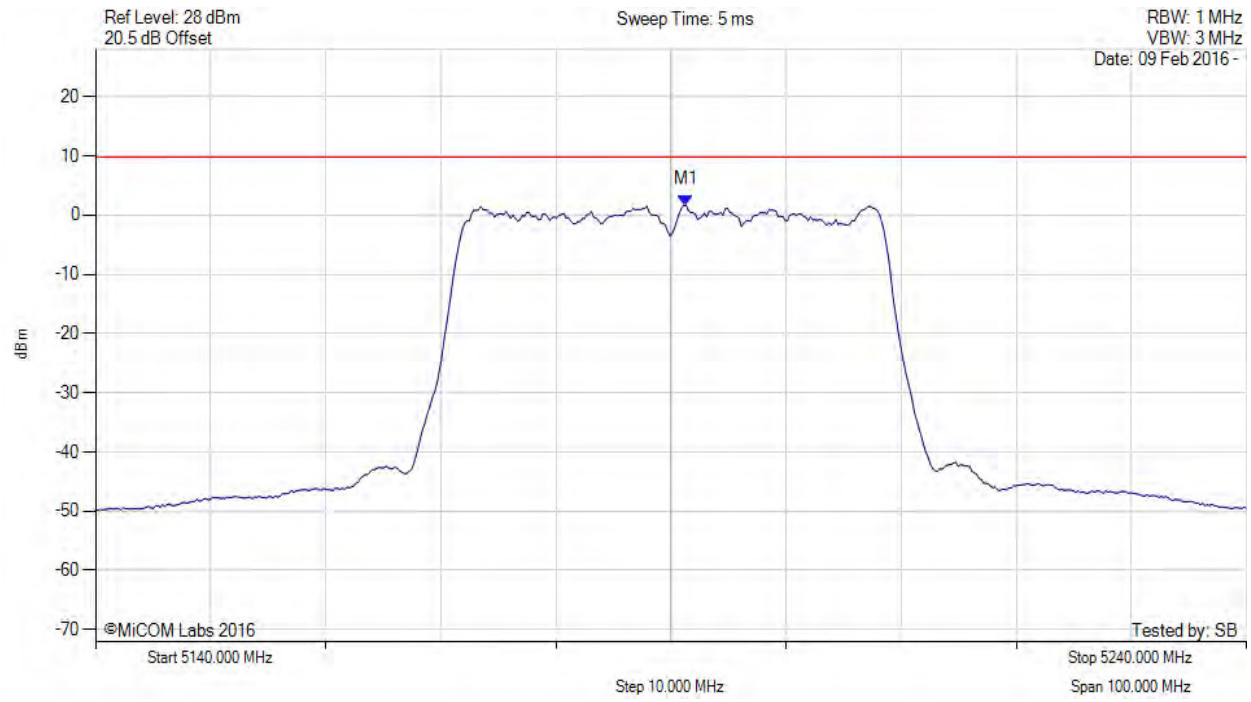
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5183.086 MHz : 2.230 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



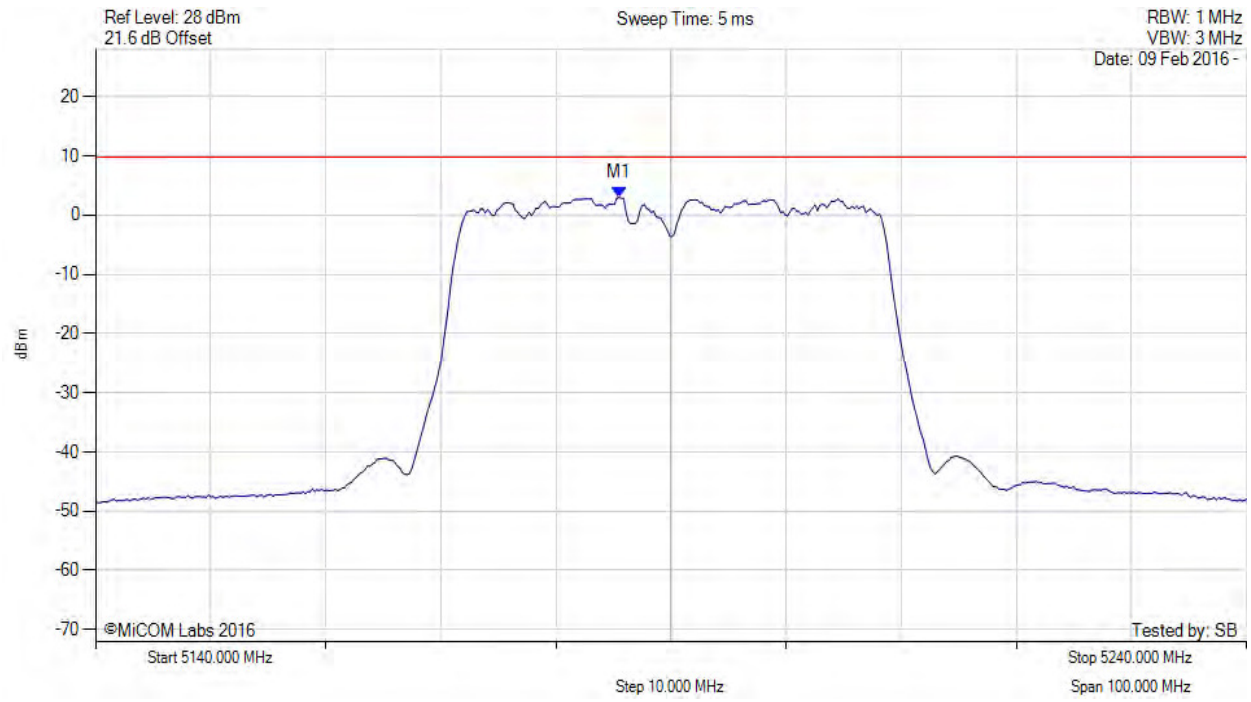
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5191.303 MHz : 1.674 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



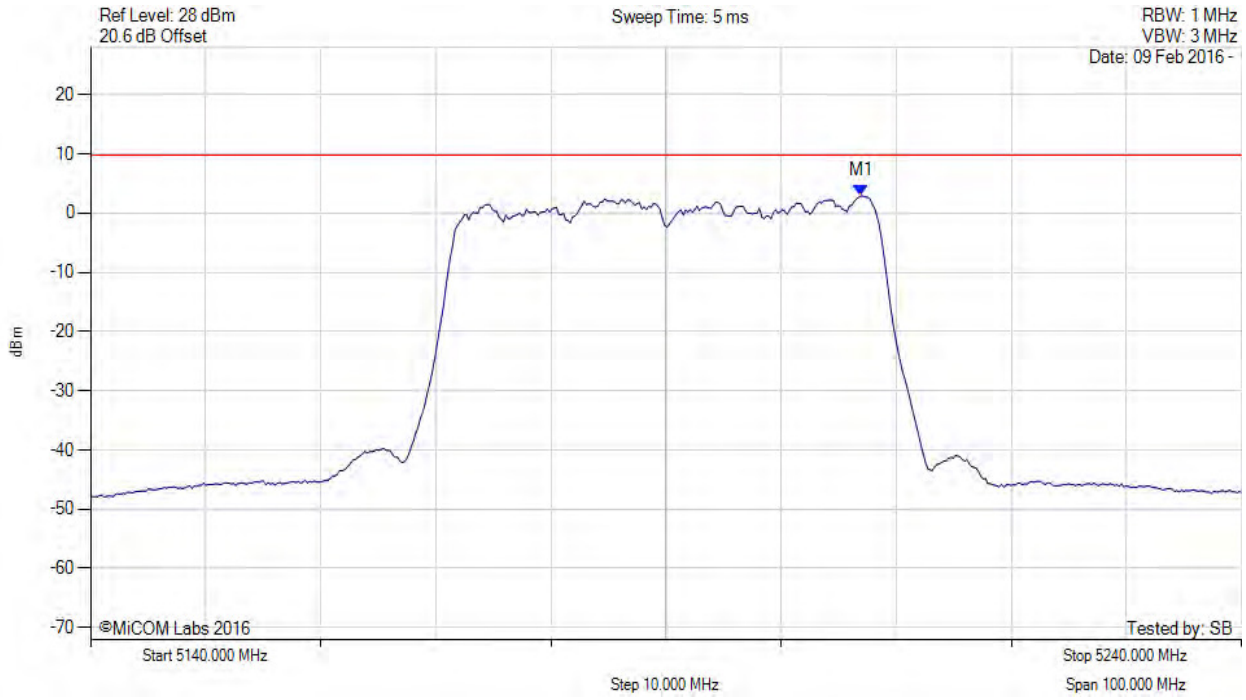
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5185.491 MHz : 2.975 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



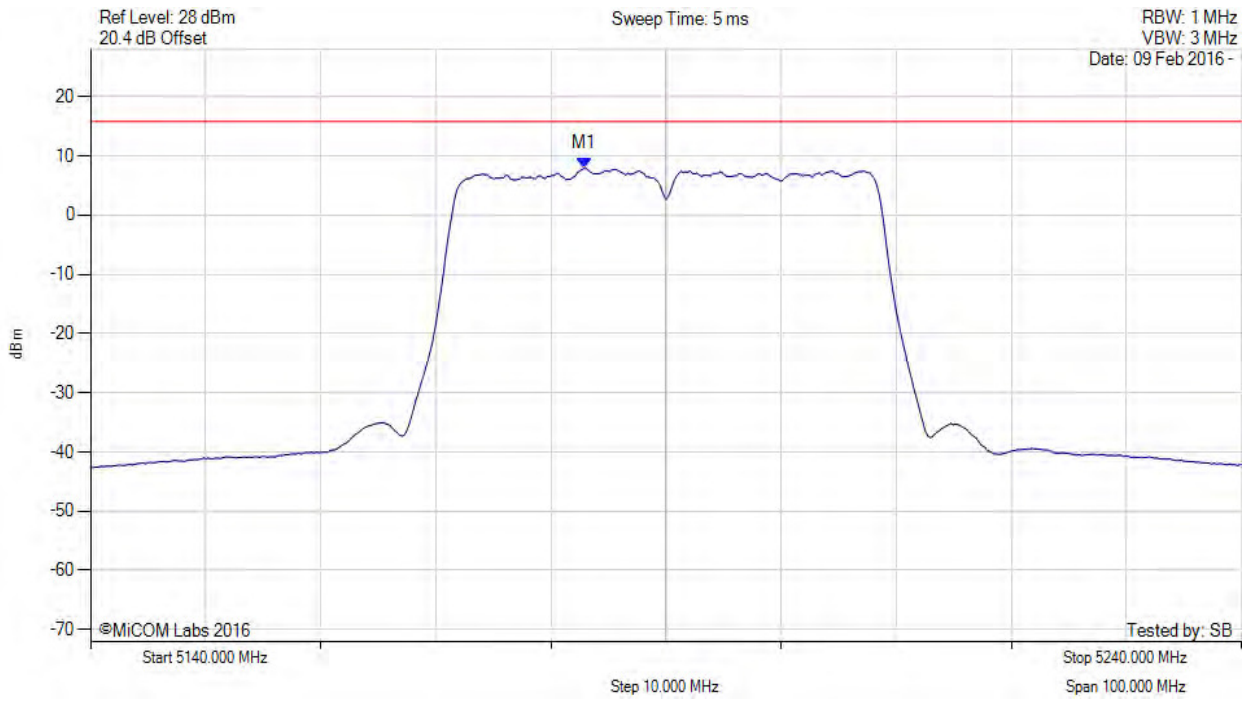
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5206.934 MHz : 2.885 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



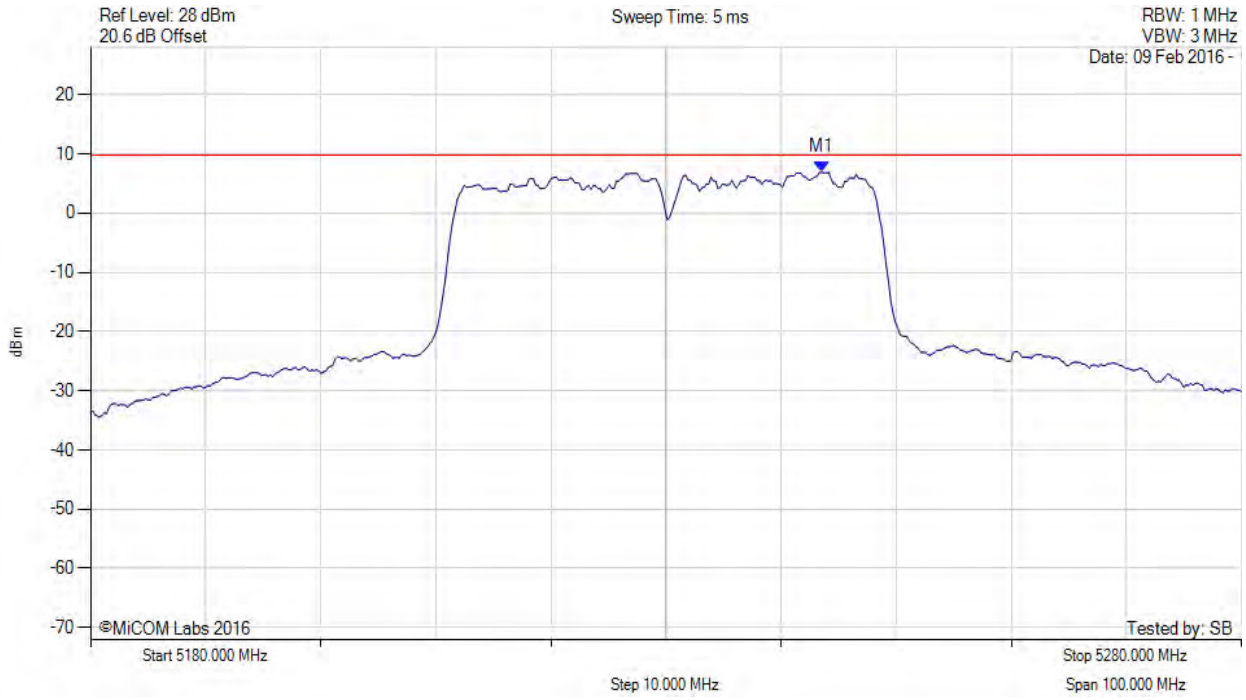
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5182.900 MHz : 7.893 dBm M1 + DCCF : 5182.900 MHz : 8.003 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 15.8 dBm Margin: -7.8 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



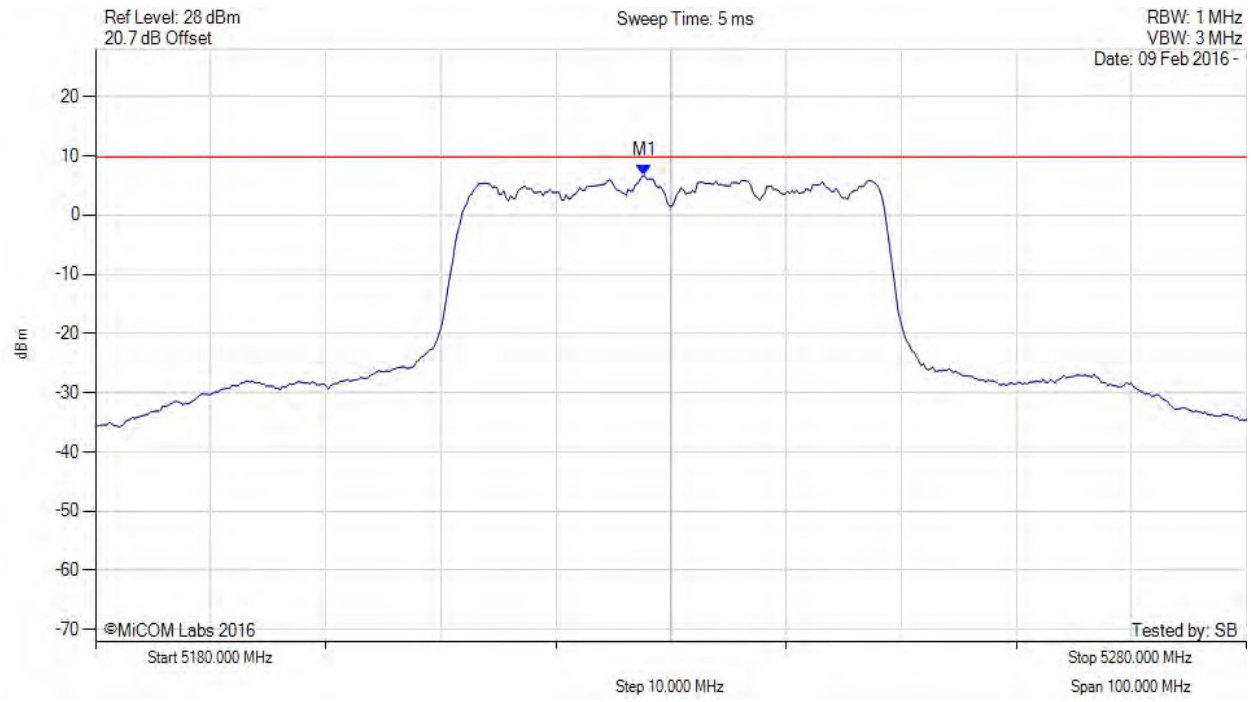
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5243.527 MHz : 6.914 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



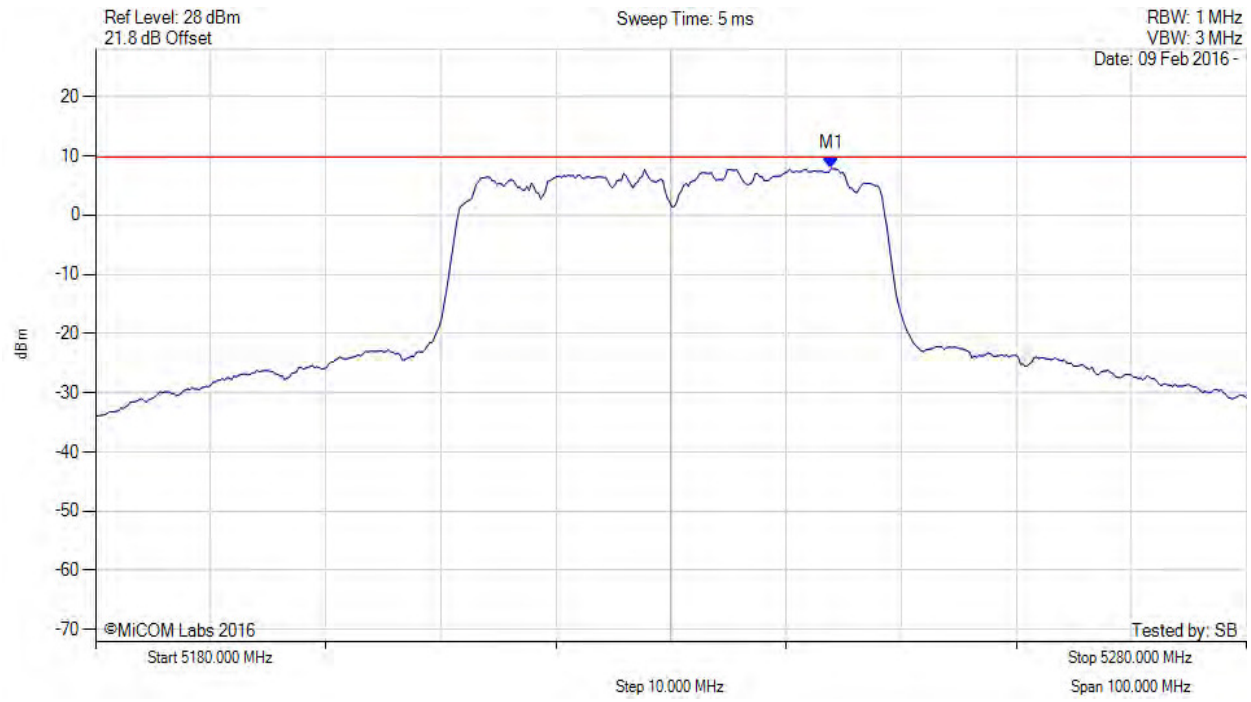
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5227.695 MHz : 6.648 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



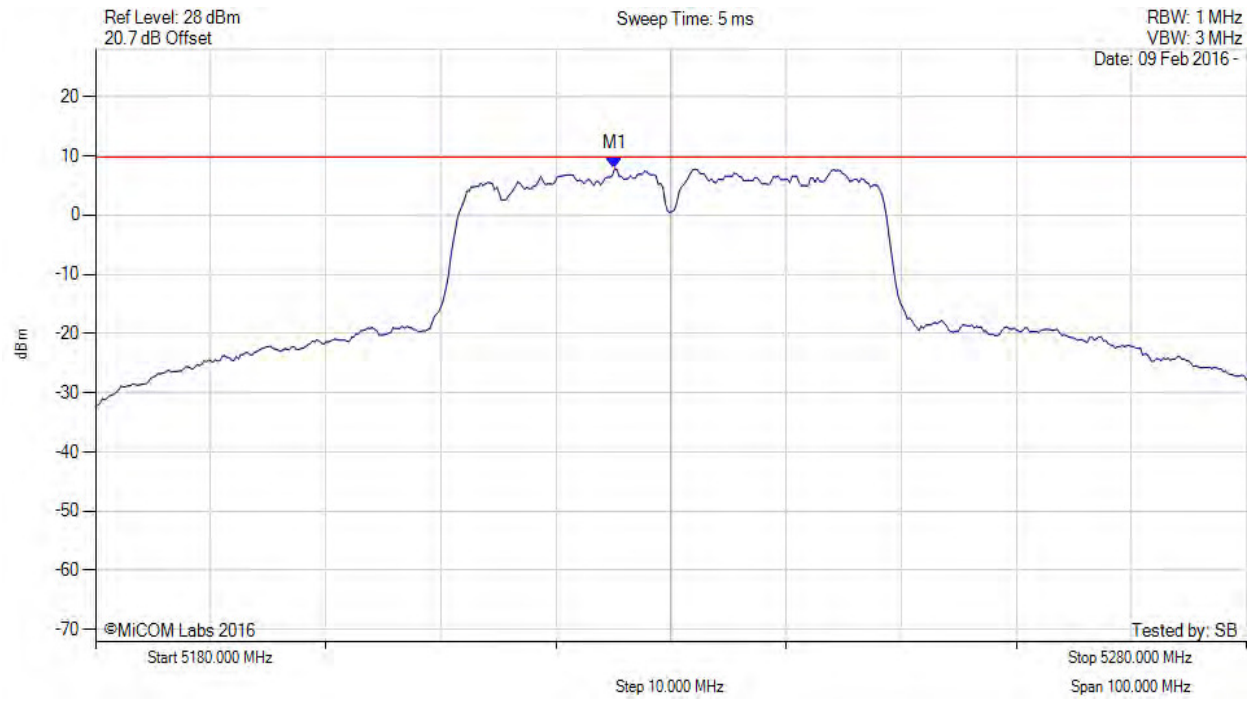
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5243.928 MHz : 7.889 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



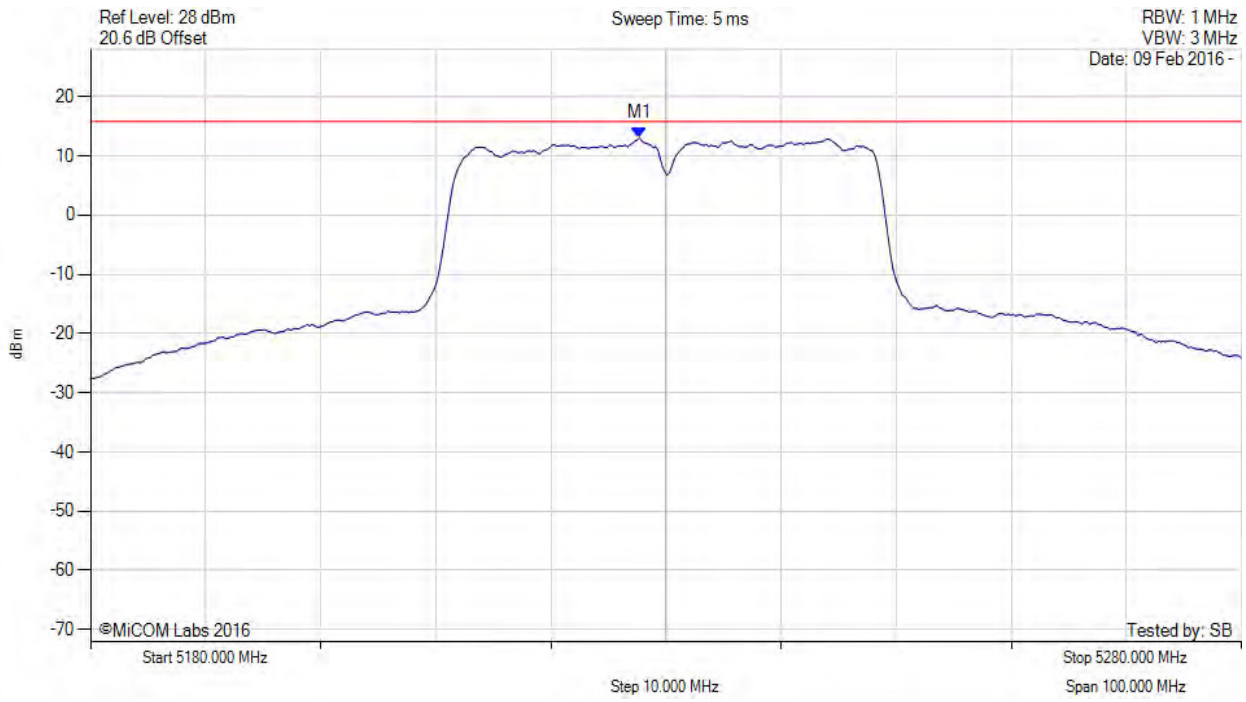
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5225.090 MHz : 7.810 dBm	Limit: ≤ 9.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



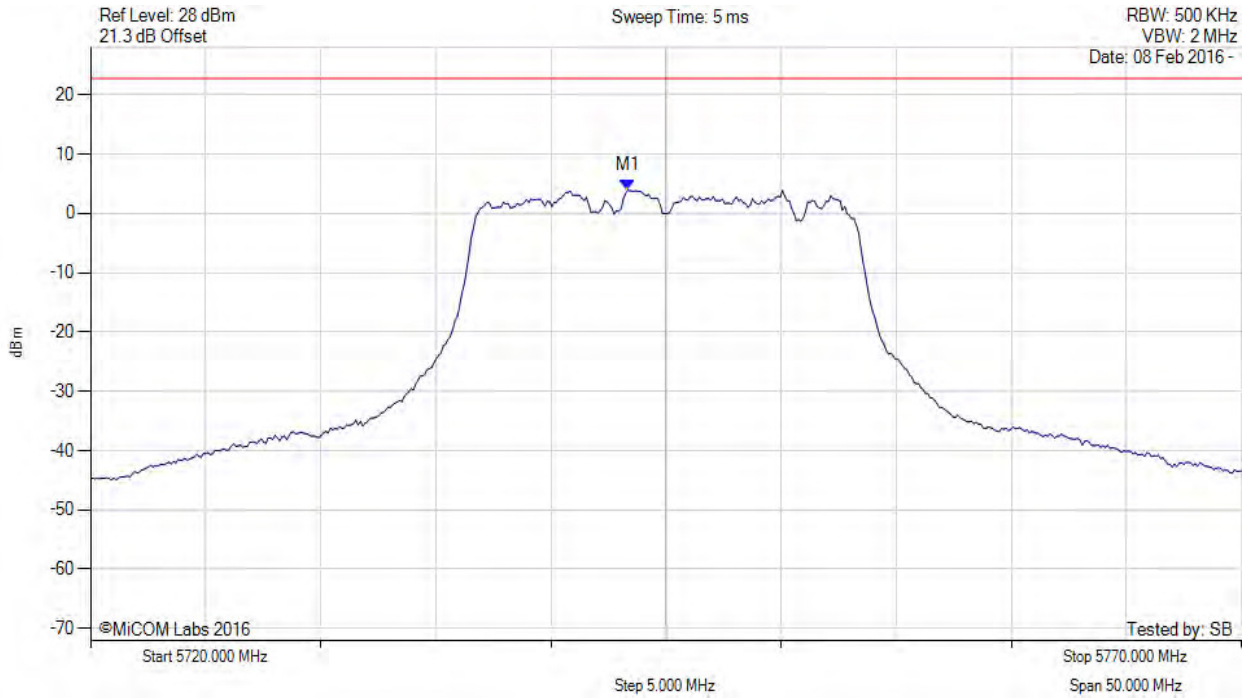
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5227.700 MHz : 13.019 dBm M1 + DCCF : 5227.700 MHz : 13.129 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 15.8 dBm Margin: -2.7 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



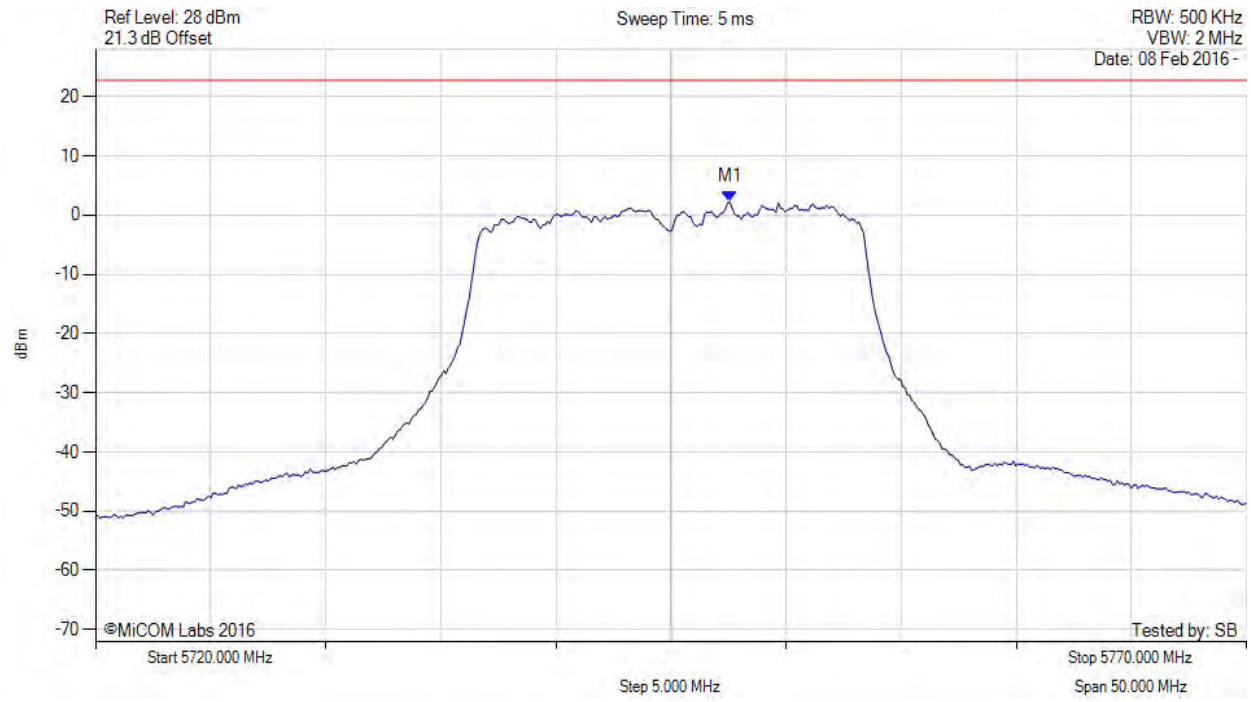
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5743.347 MHz : 3.889 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



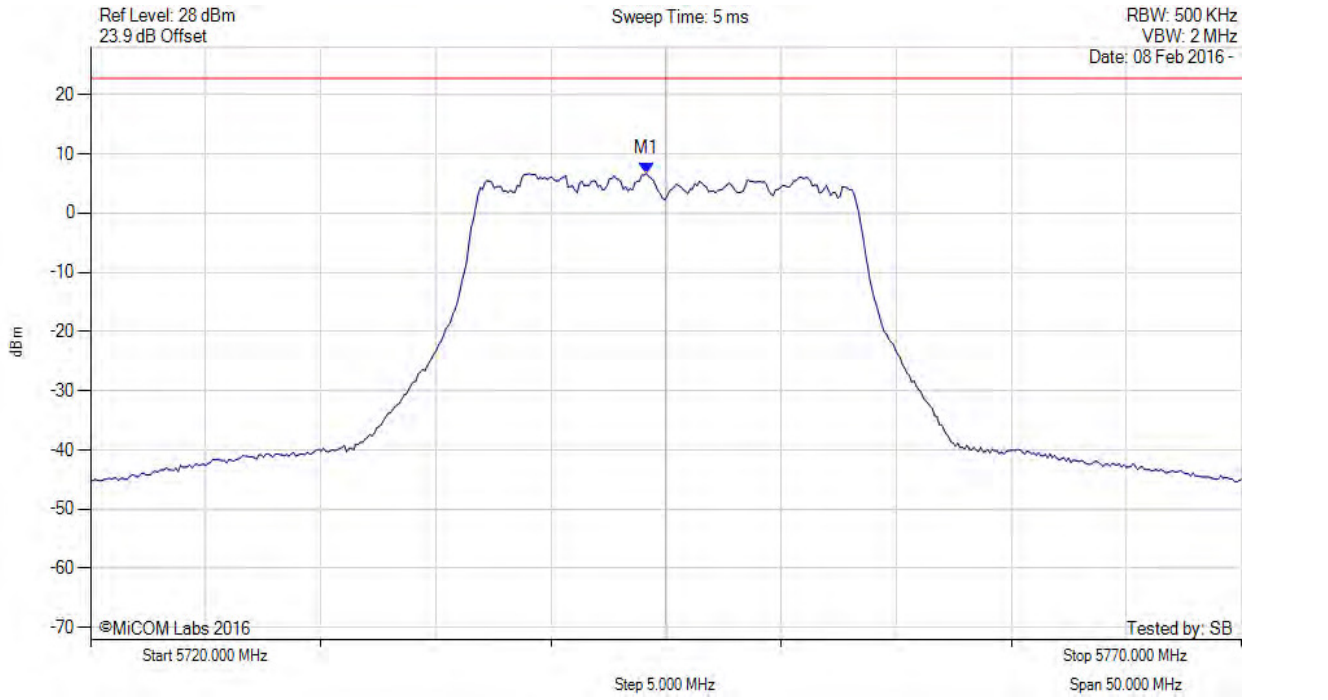
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5747.555 MHz : 2.210 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



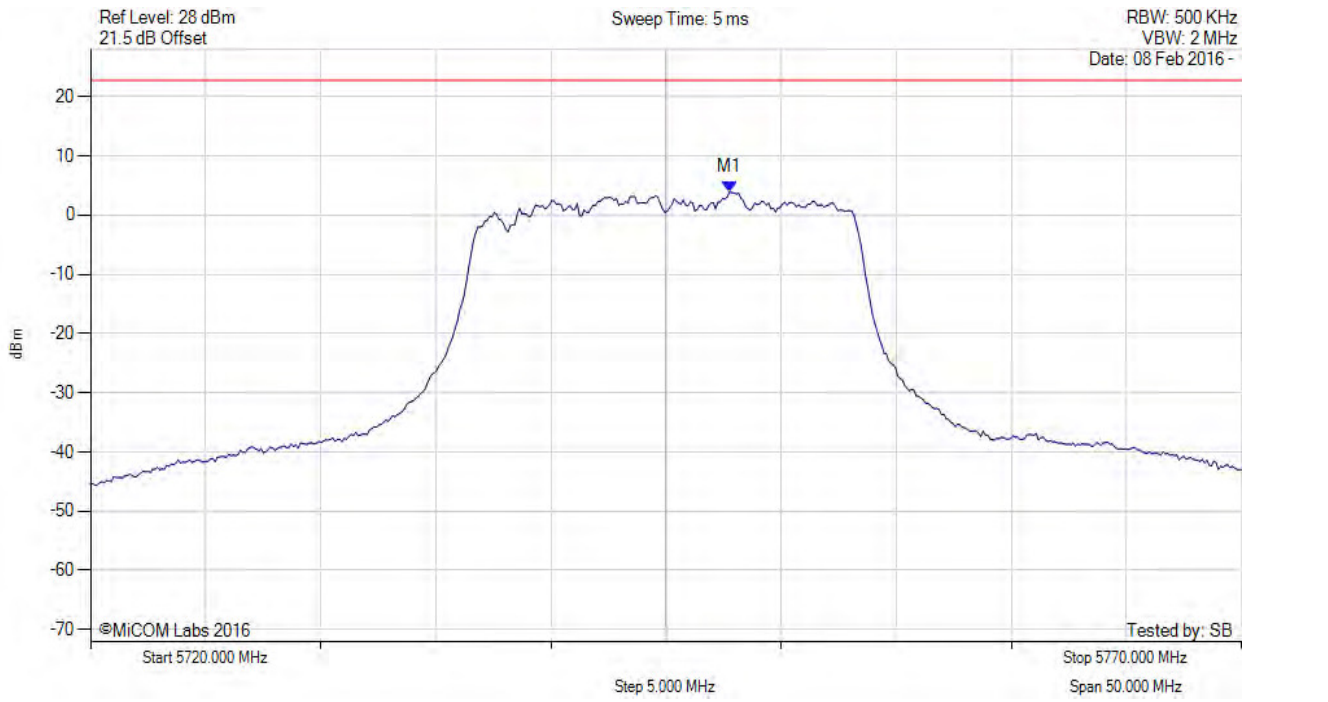
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5744.148 MHz : 6.693 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



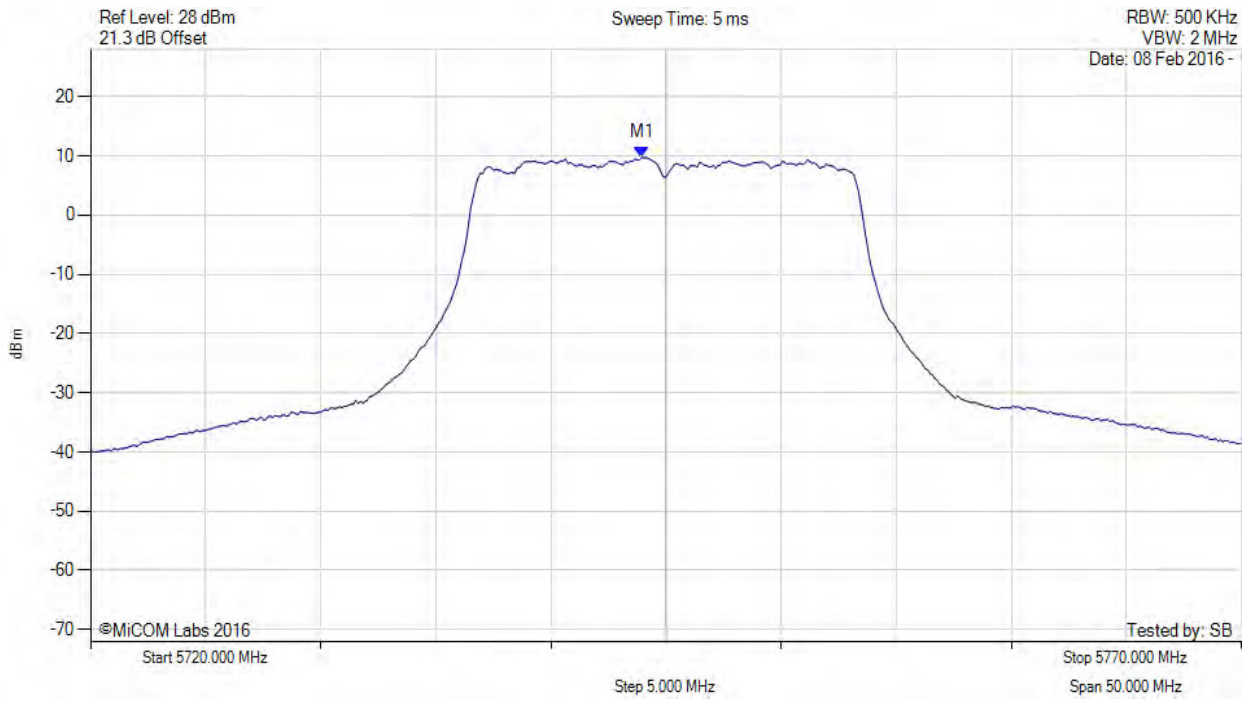
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5747.756 MHz : 3.879 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



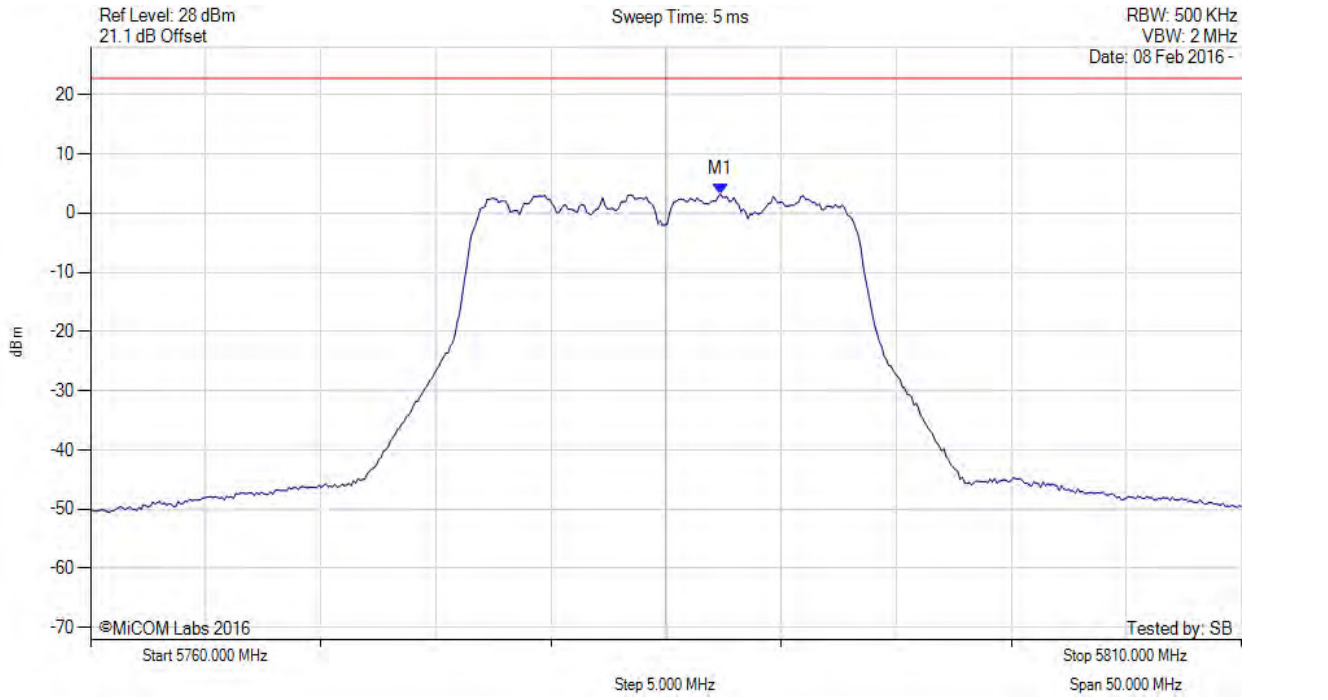
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5743.900 MHz : 9.737 dBm M1 + DCCF : 5743.900 MHz : 9.869 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 28.8 dBm Margin: -19.0 dB

back to matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



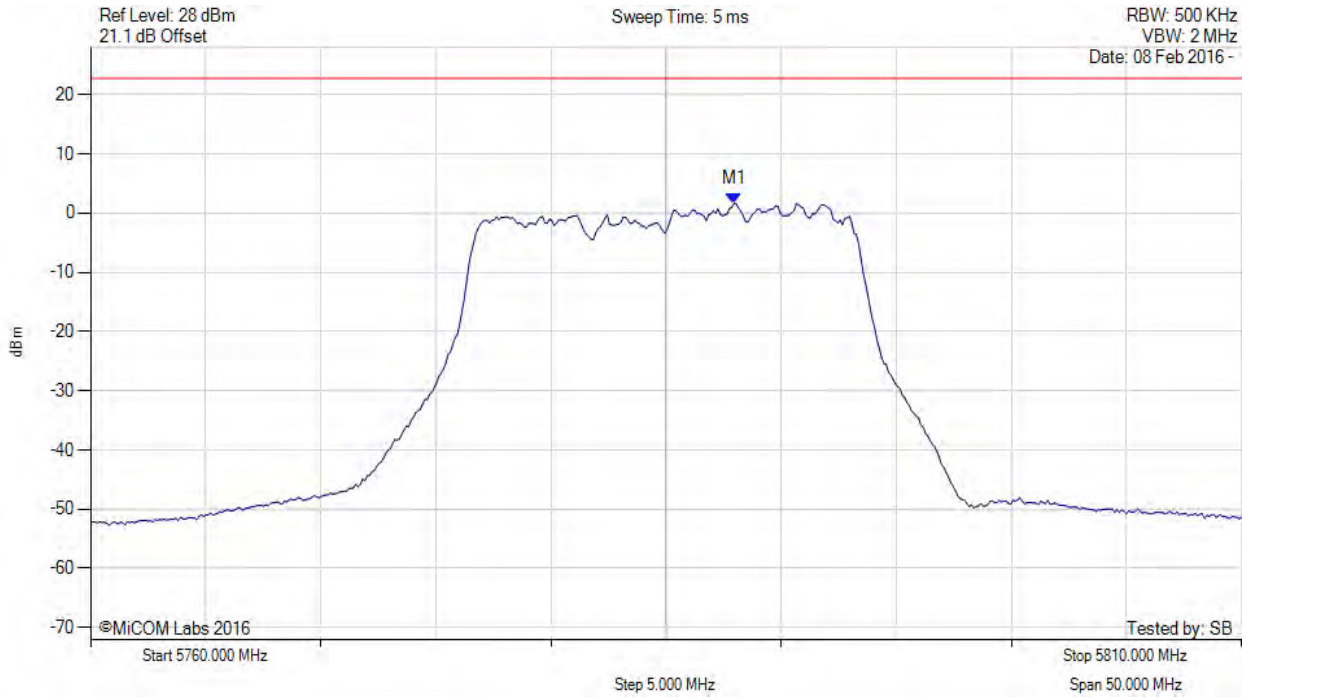
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5787.355 MHz : 3.268 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



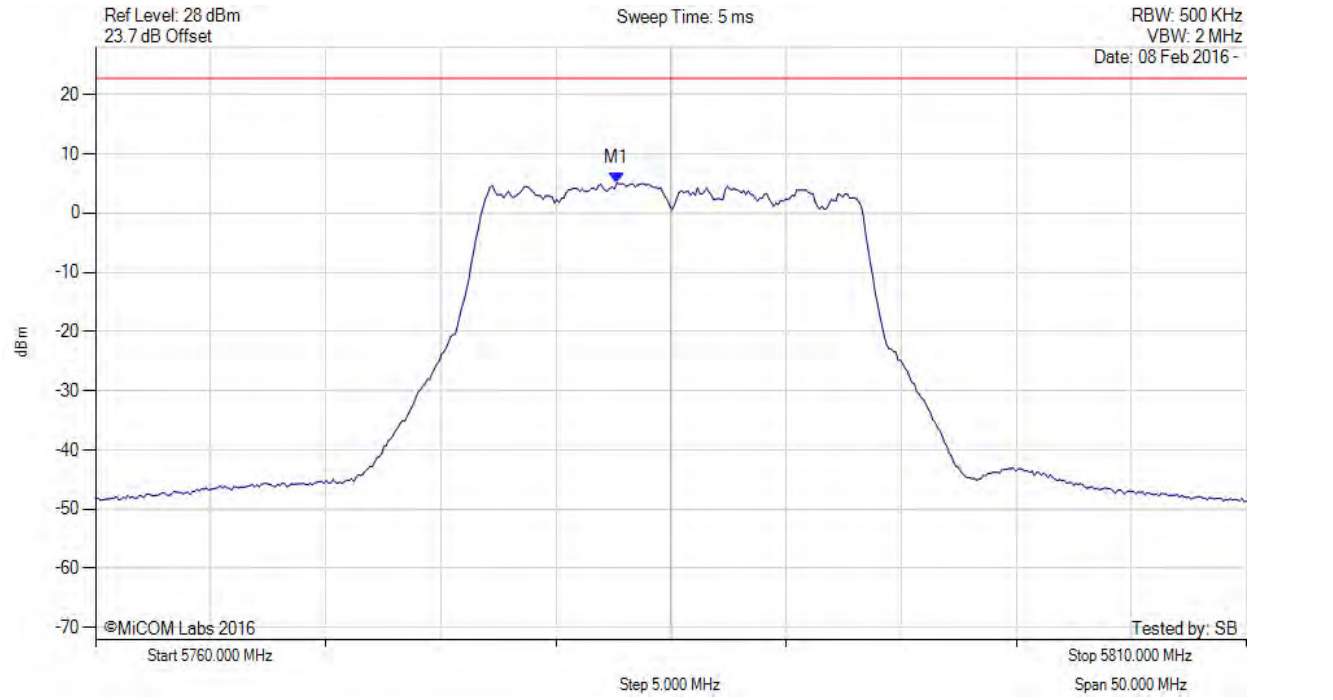
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5787.956 MHz : 1.614 dBm	Channel Frequency: 5785.00 MHz

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



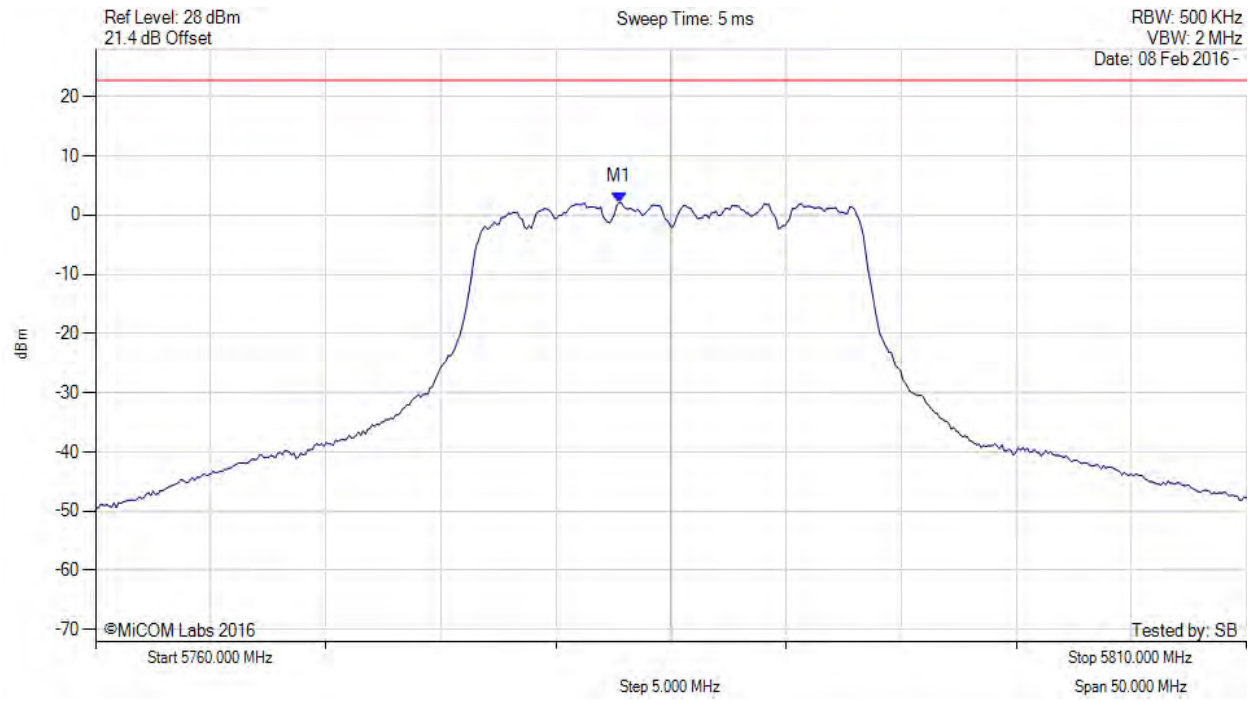
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5782.645 MHz : 5.070 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



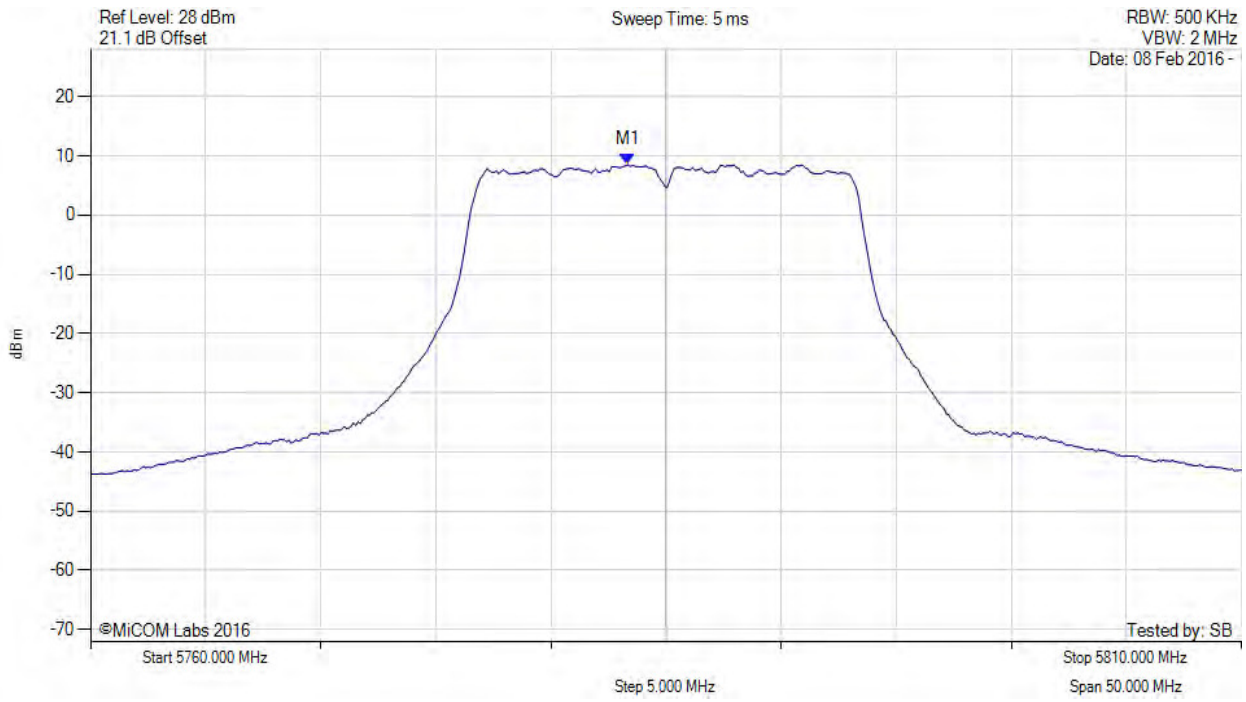
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5782.745 MHz : 2.152 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



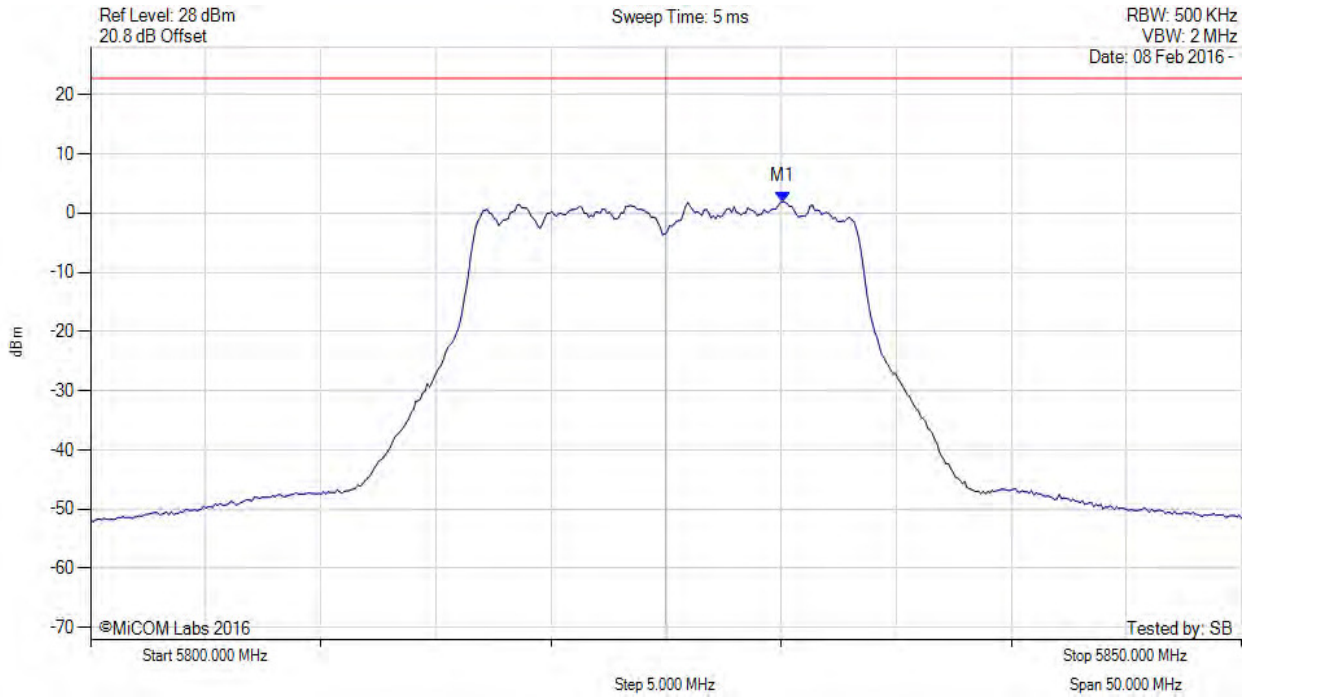
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5783.300 MHz : 8.519 dBm M1 + DCCF : 5783.300 MHz : 8.651 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 28.8 dBm Margin: -20.2 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



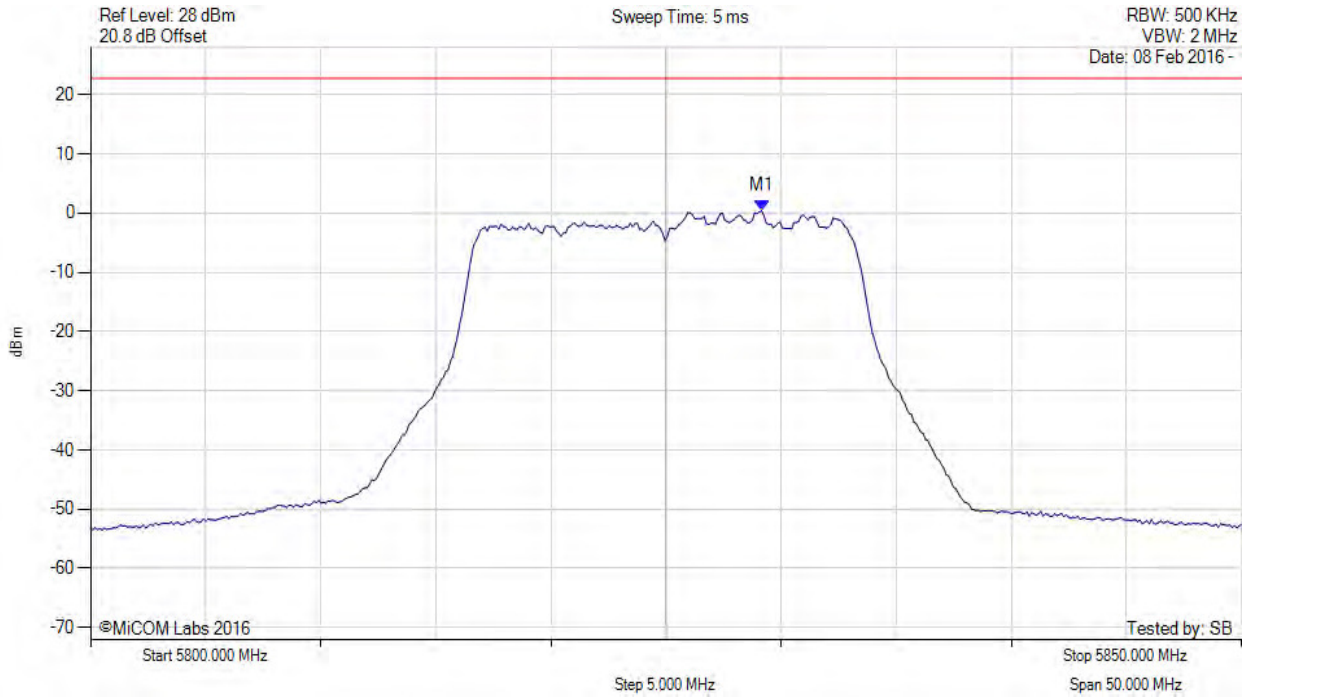
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5830.060 MHz : 1.917 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



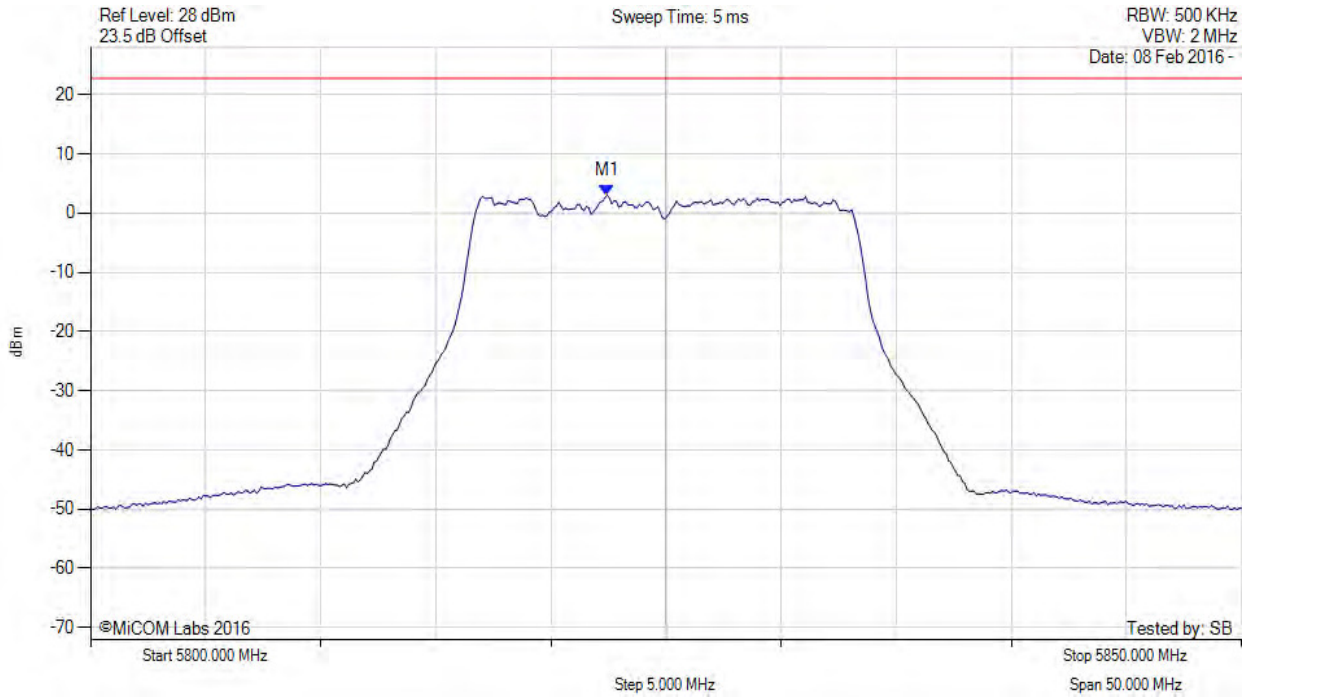
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5829.158 MHz : 0.380 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



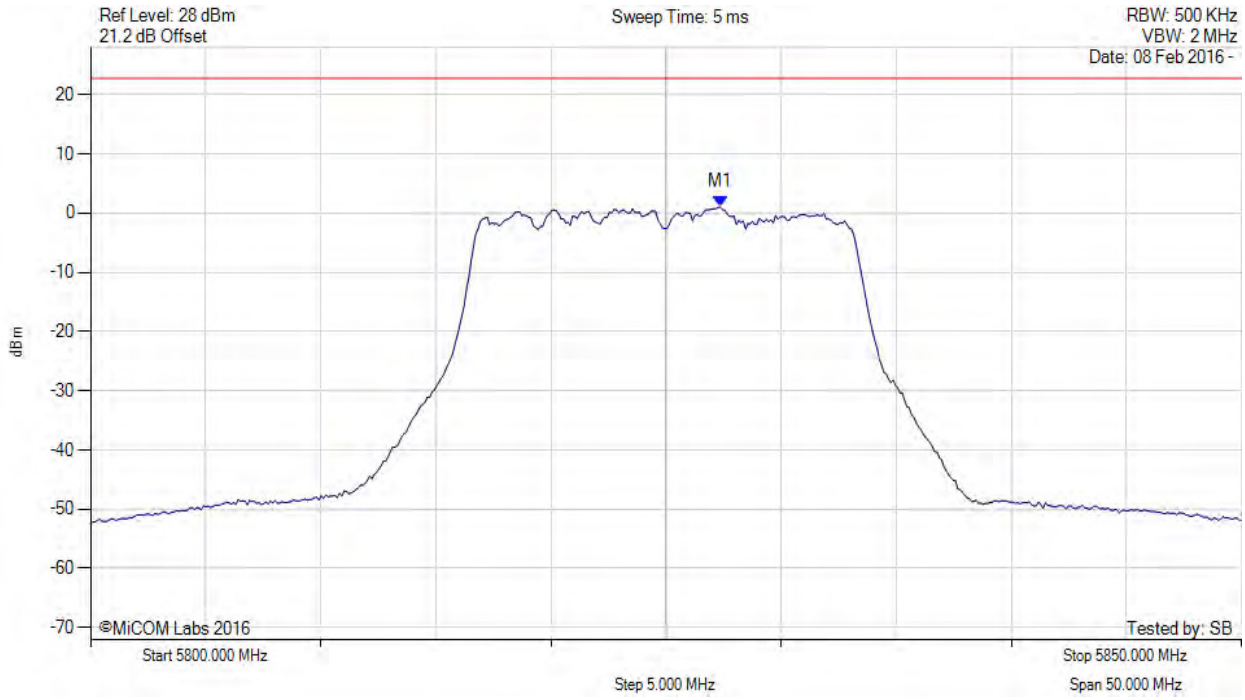
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5822.445 MHz : 3.024 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



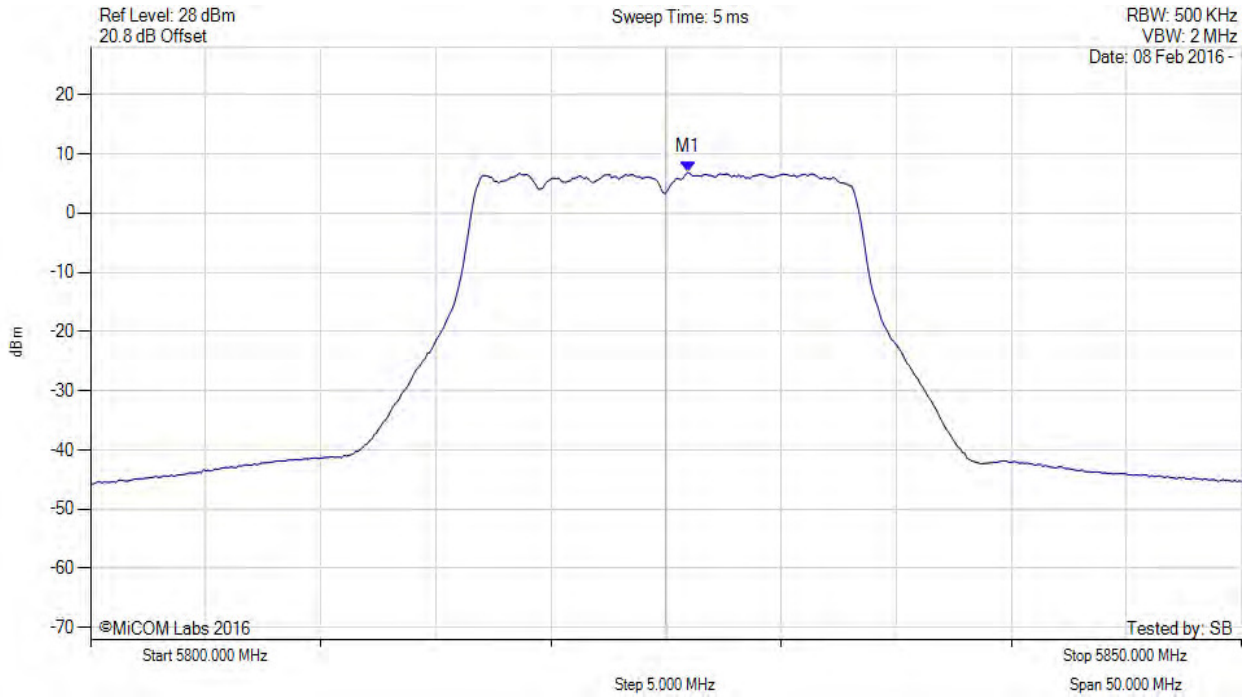
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5827.355 MHz : 1.026 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



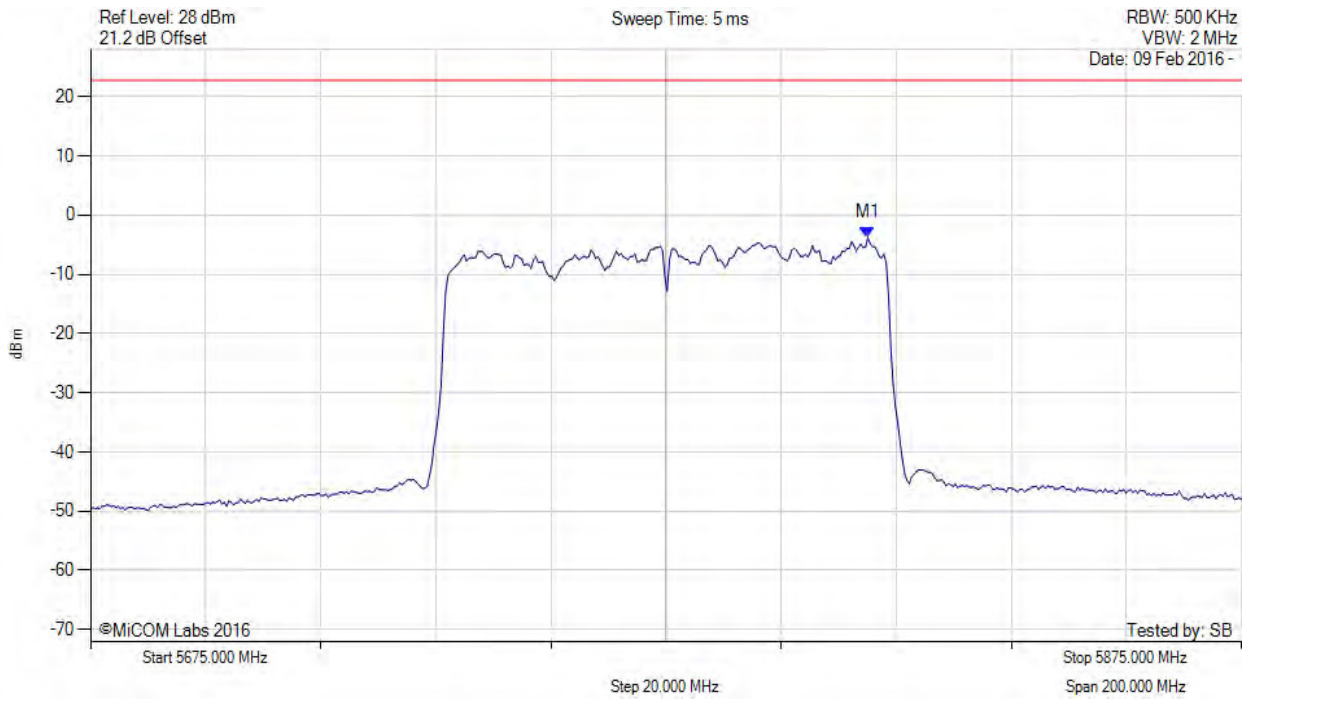
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5826.000 MHz : 6.876 dBm M1 + DCCF : 5826.000 MHz : 7.008 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 28.8 dBm Margin: -21.8 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



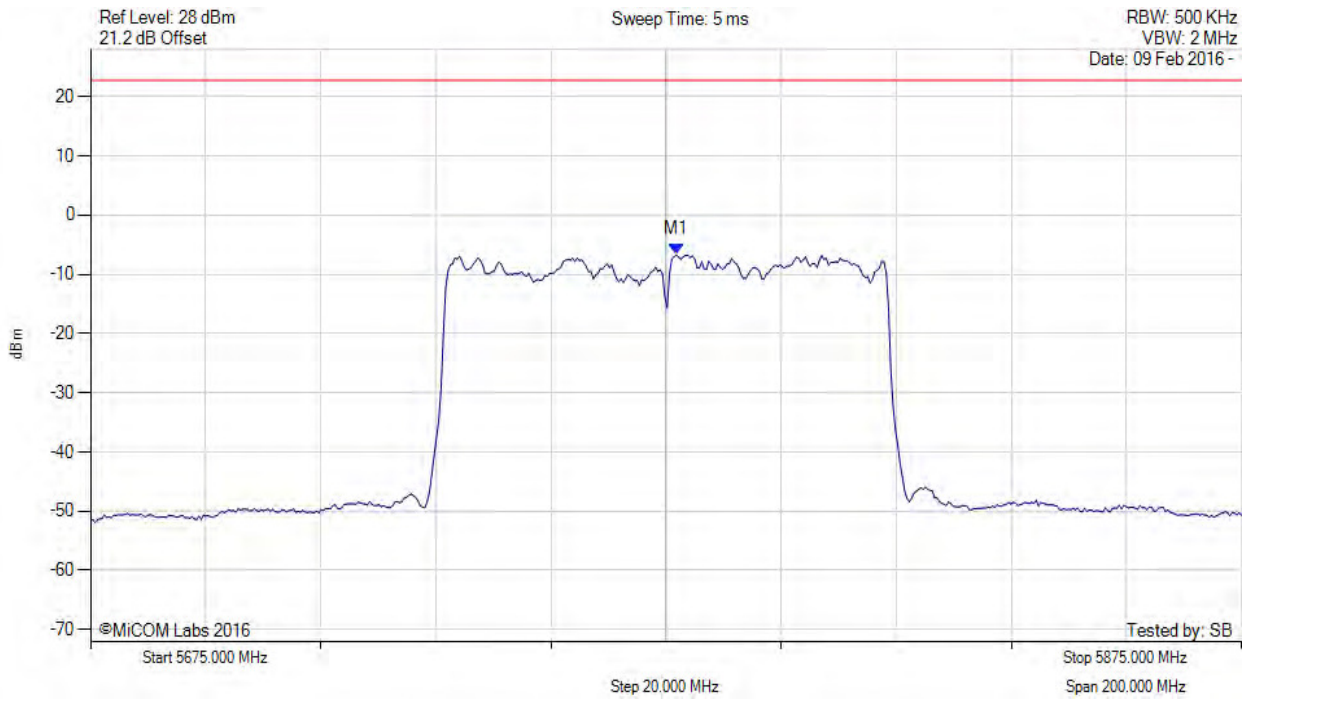
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5810.070 MHz : -3.809 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



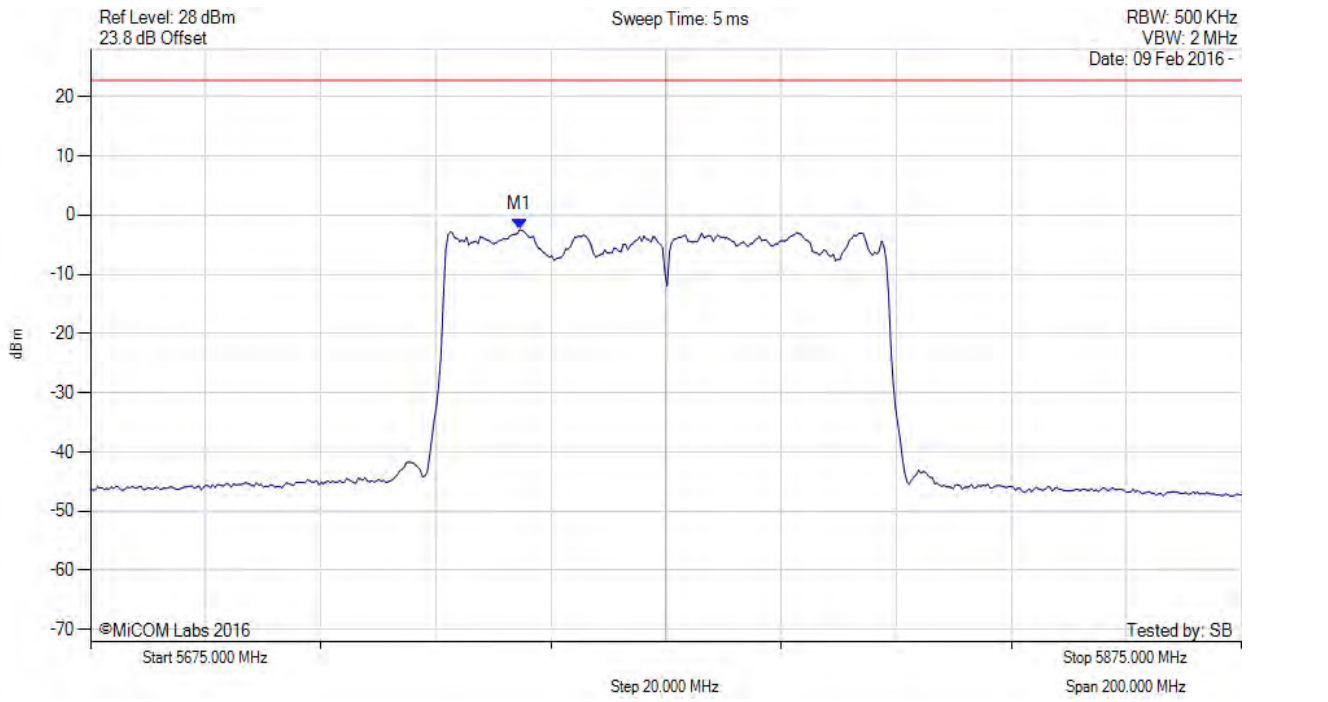
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5776.804 MHz : -6.715 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



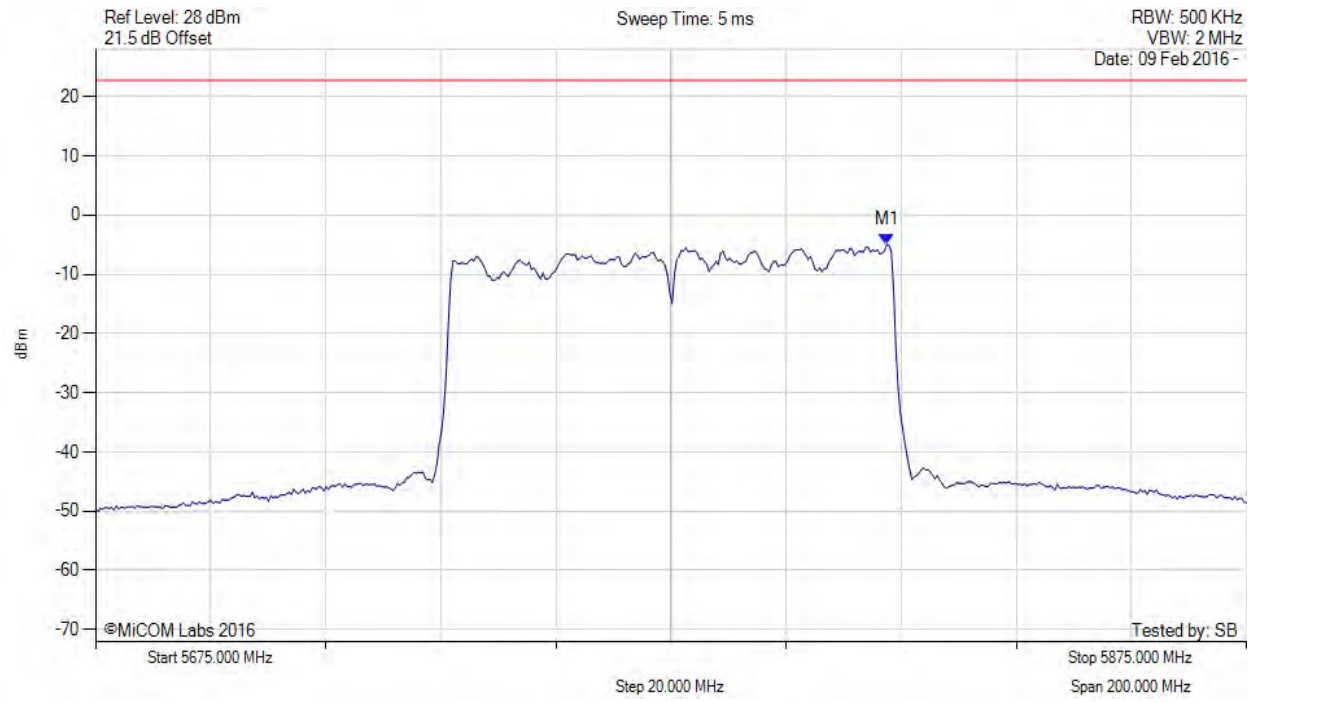
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5749.549 MHz : -2.482 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



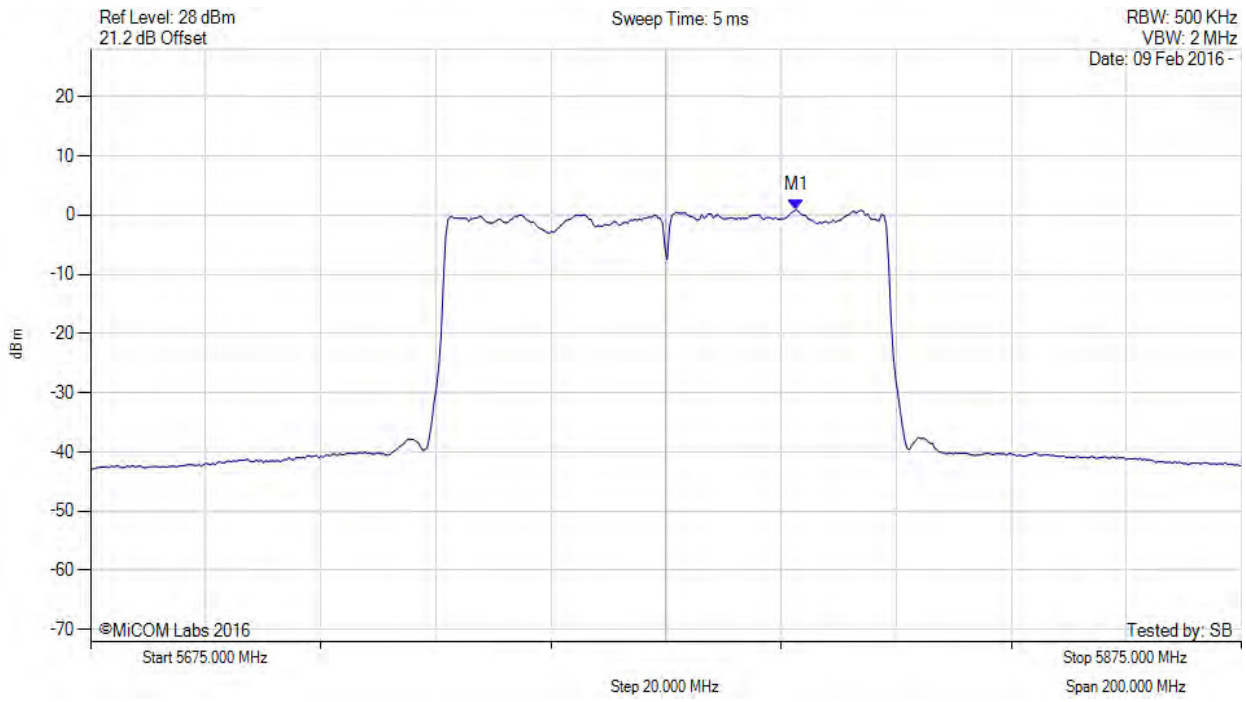
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5812.475 MHz : -5.040 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



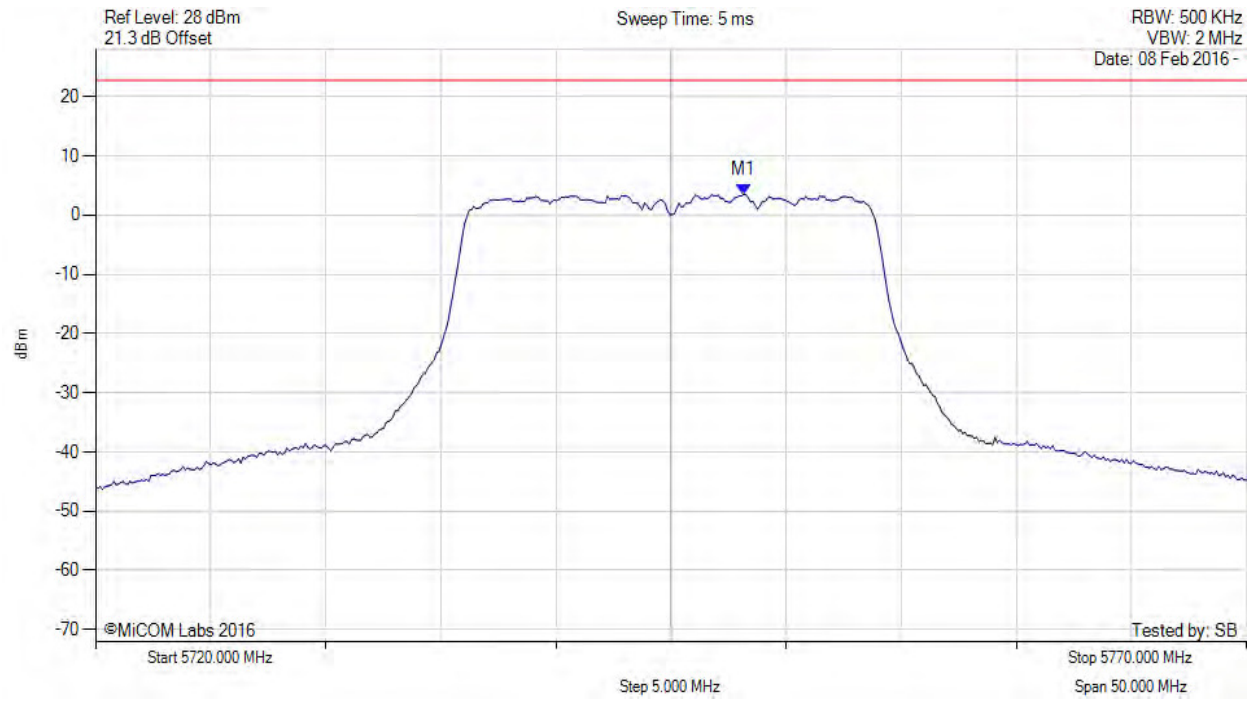
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.600 MHz : 0.878 dBm M1 + DCCF : 5797.600 MHz : 1.101 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 28.8 dBm Margin: -27.7 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



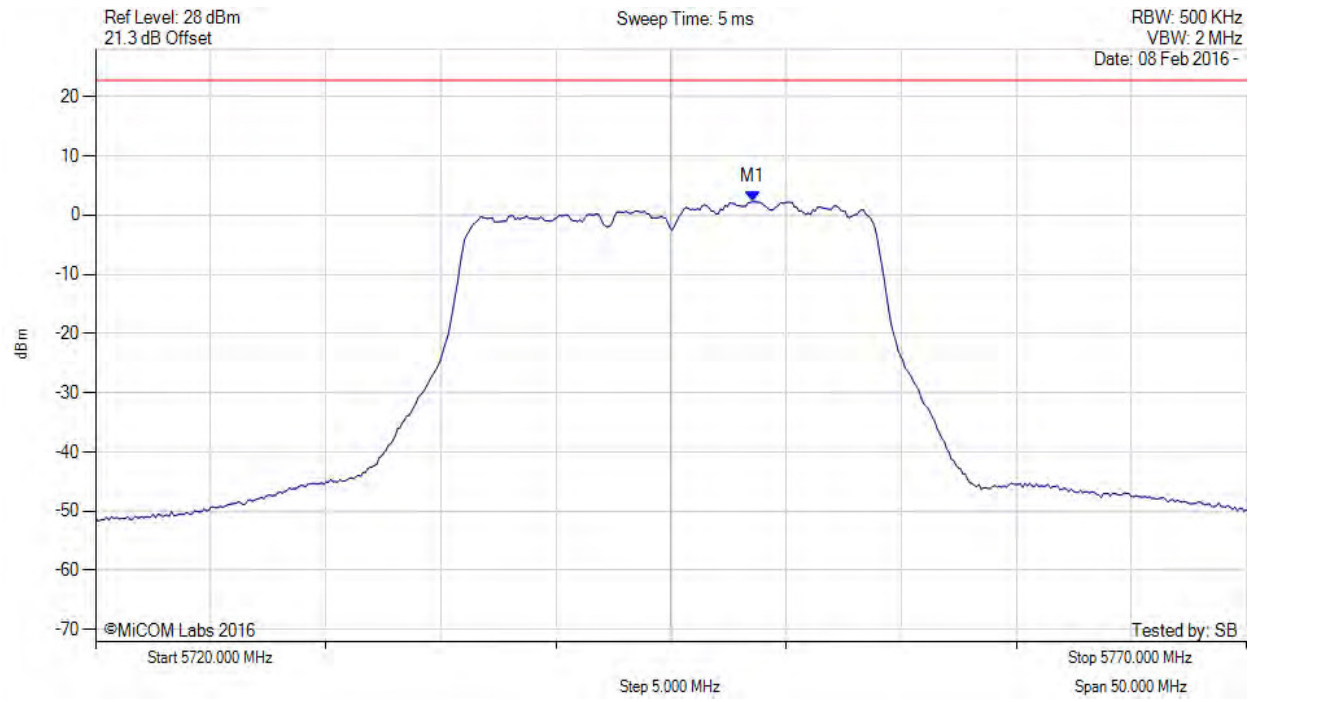
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.156 MHz : 3.513 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



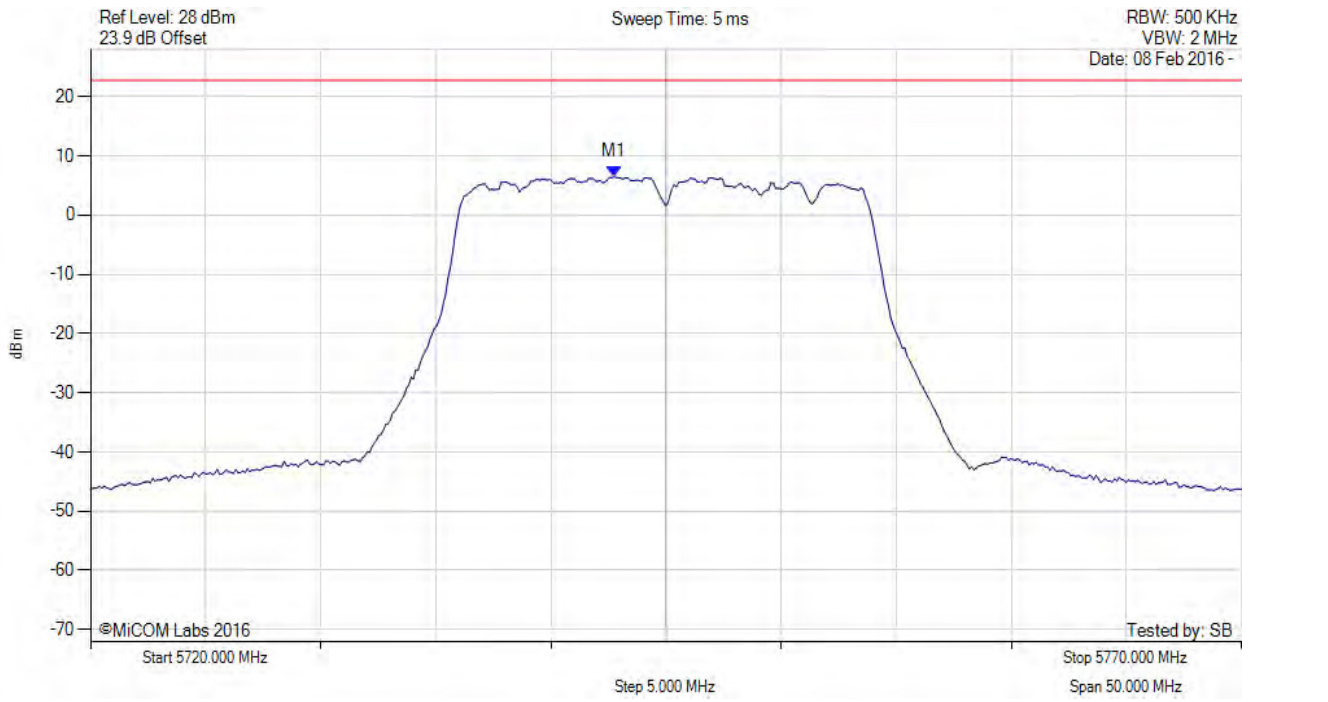
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.557 MHz : 2.298 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



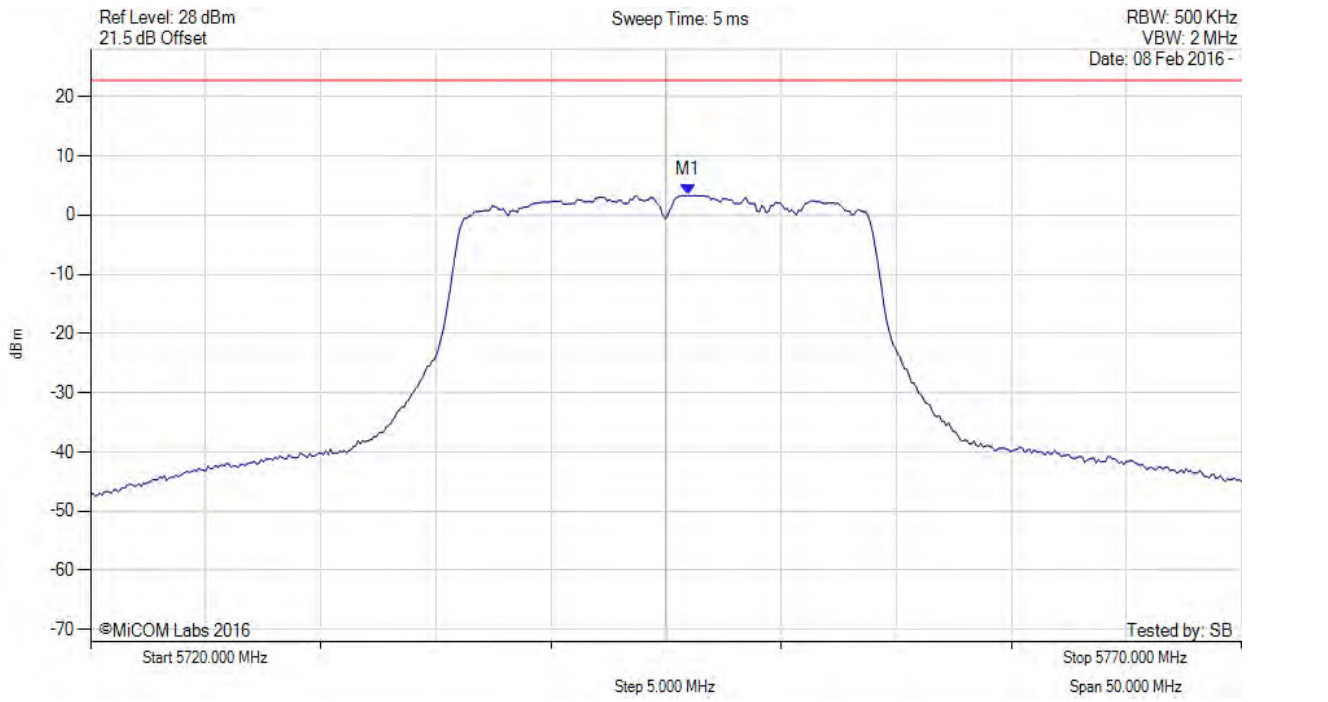
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5742.745 MHz : 6.465 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



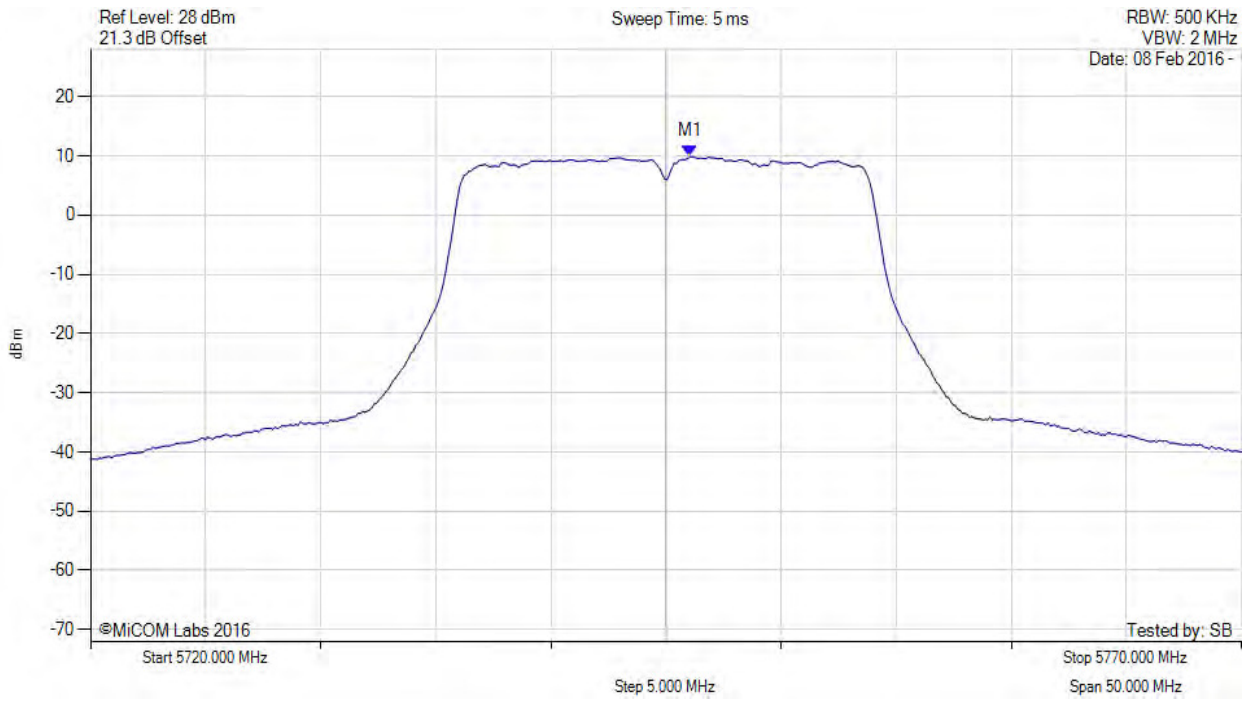
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5745.952 MHz : 3.329 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



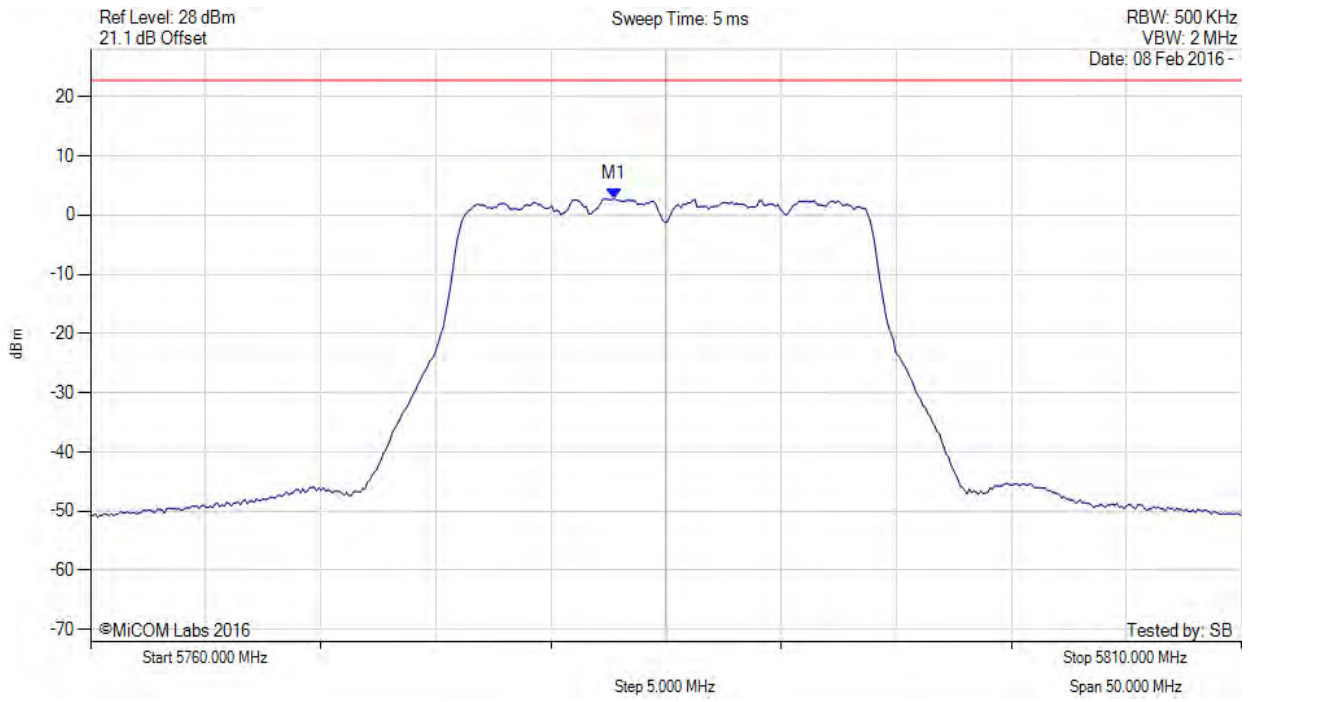
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.100 MHz : 9.881 dBm M1 + DCCF : 5746.100 MHz : 10.013 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 28.8 dBm Margin: -18.8 dB

back to matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



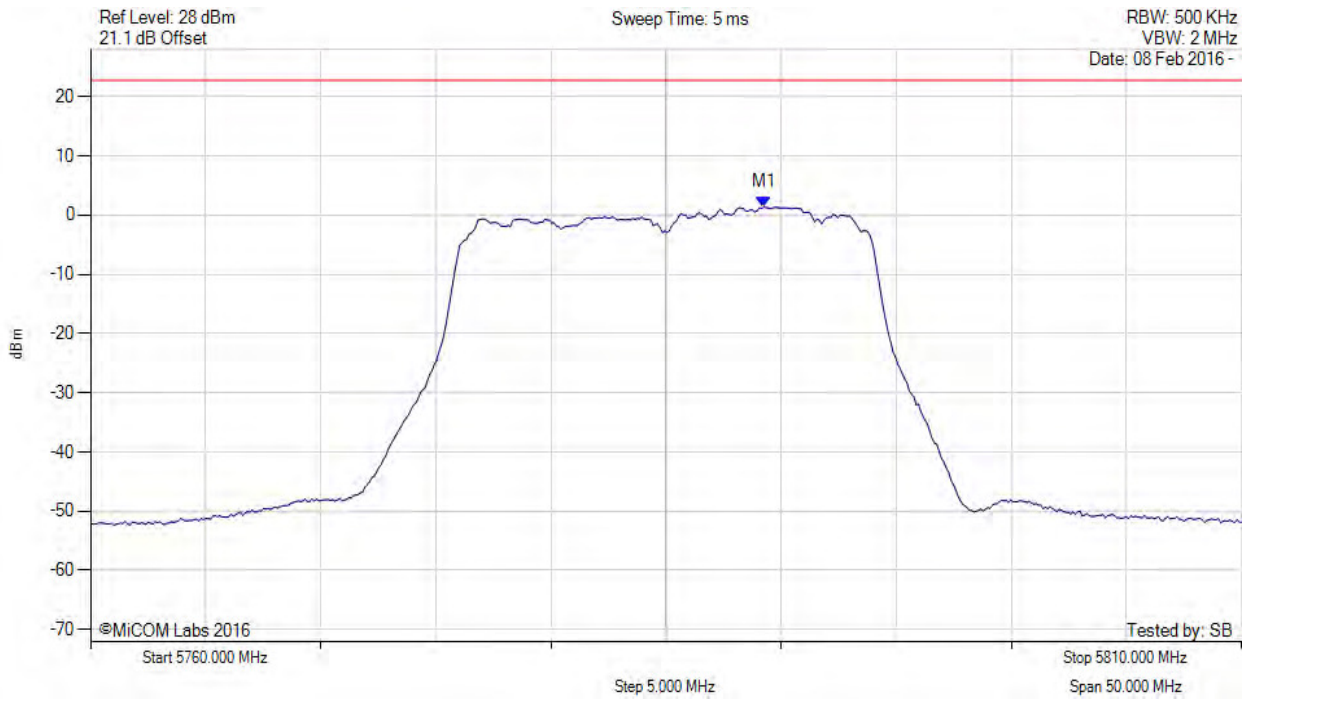
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5782.745 MHz : 2.808 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



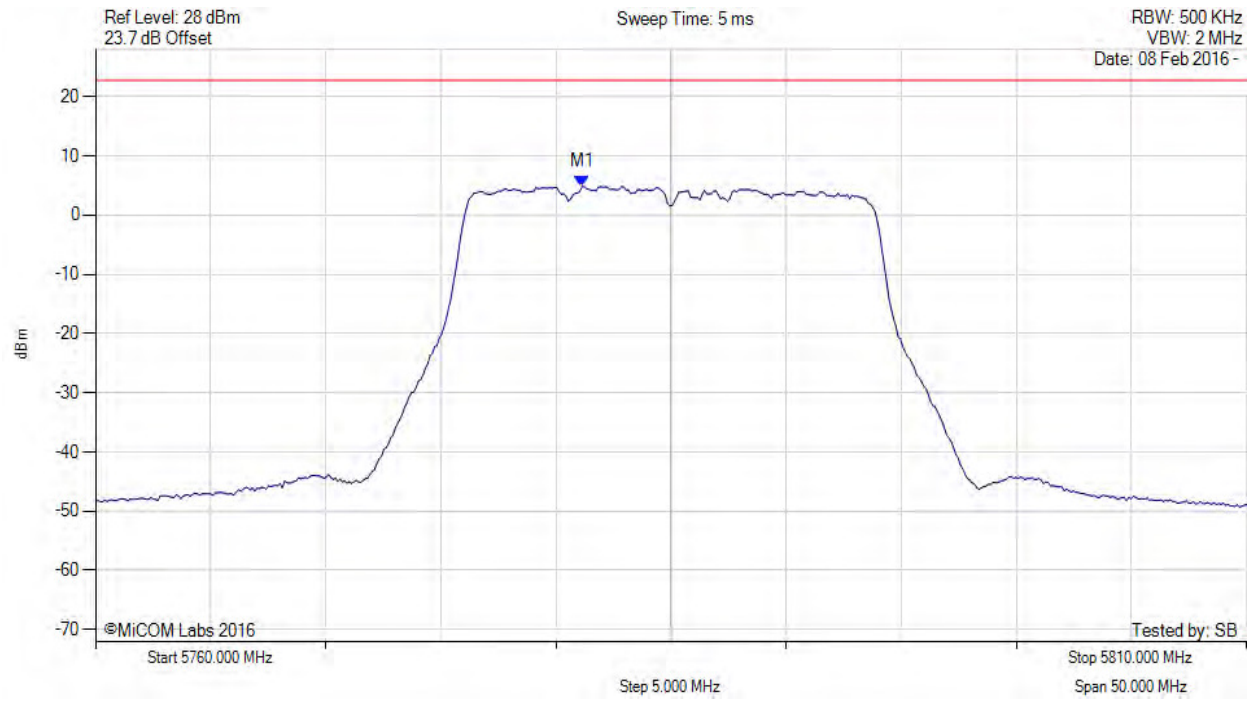
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5789.259 MHz : 1.371 dBm	Channel Frequency: 5785.00 MHz

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



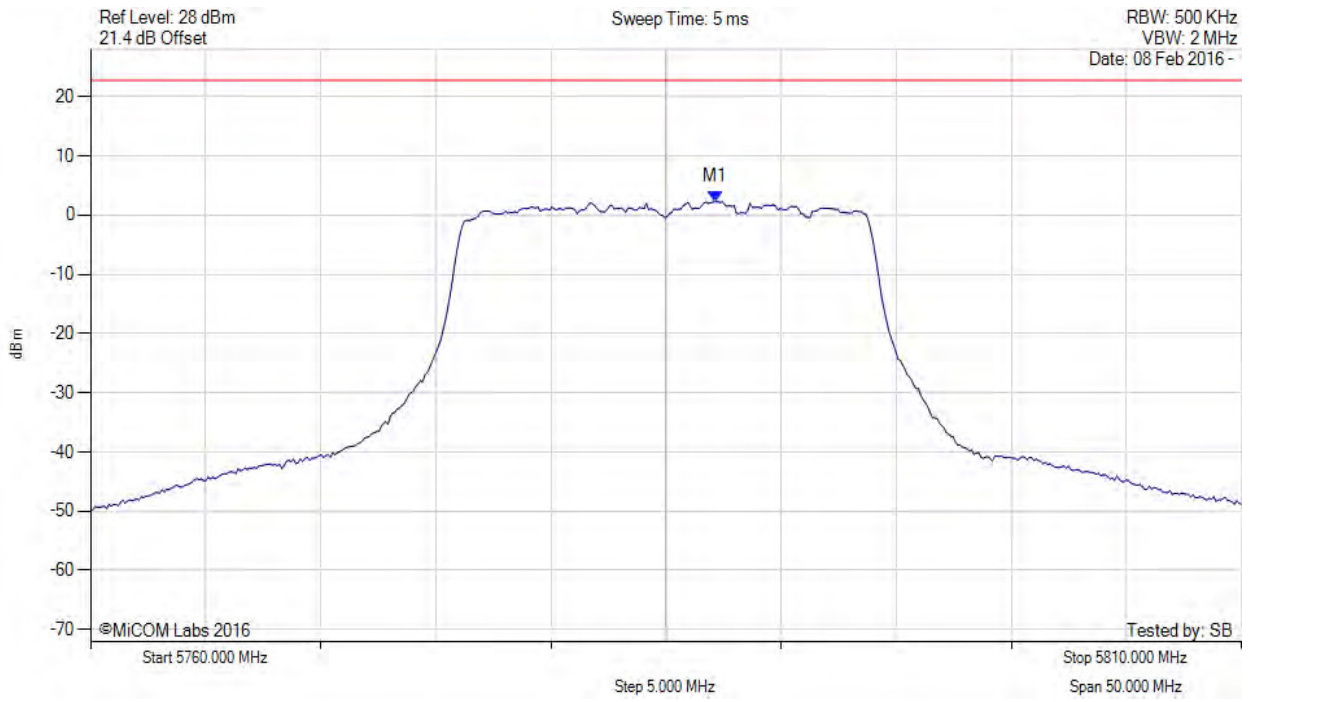
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5781.142 MHz : 4.863 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



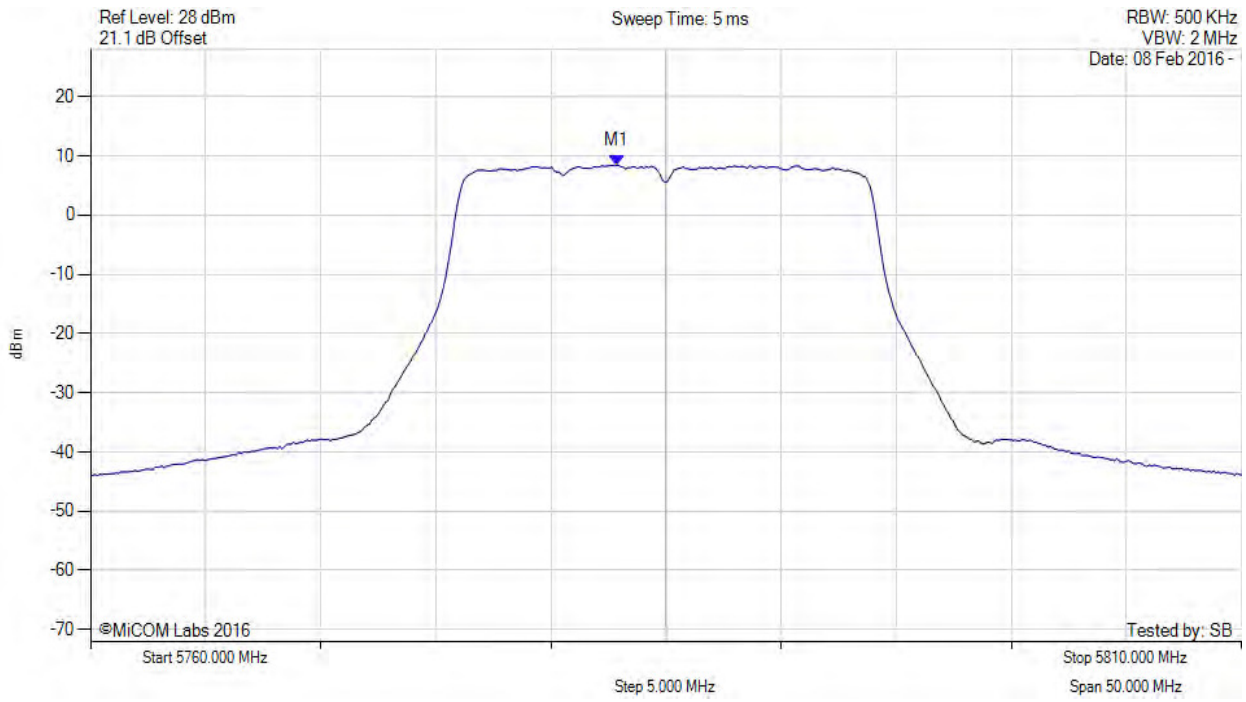
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5787.154 MHz : 2.285 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



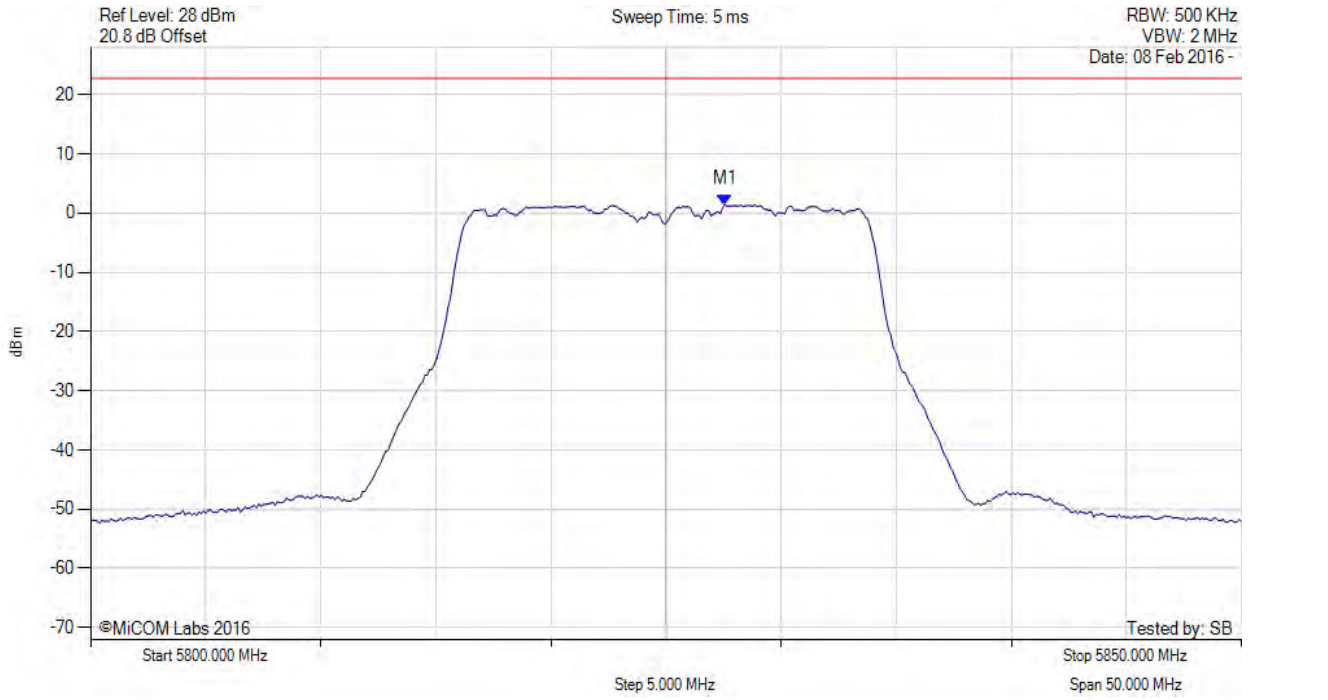
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5782.800 MHz : 8.426 dBm M1 + DCCF : 5782.800 MHz : 8.558 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 28.8 dBm Margin: -20.3 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



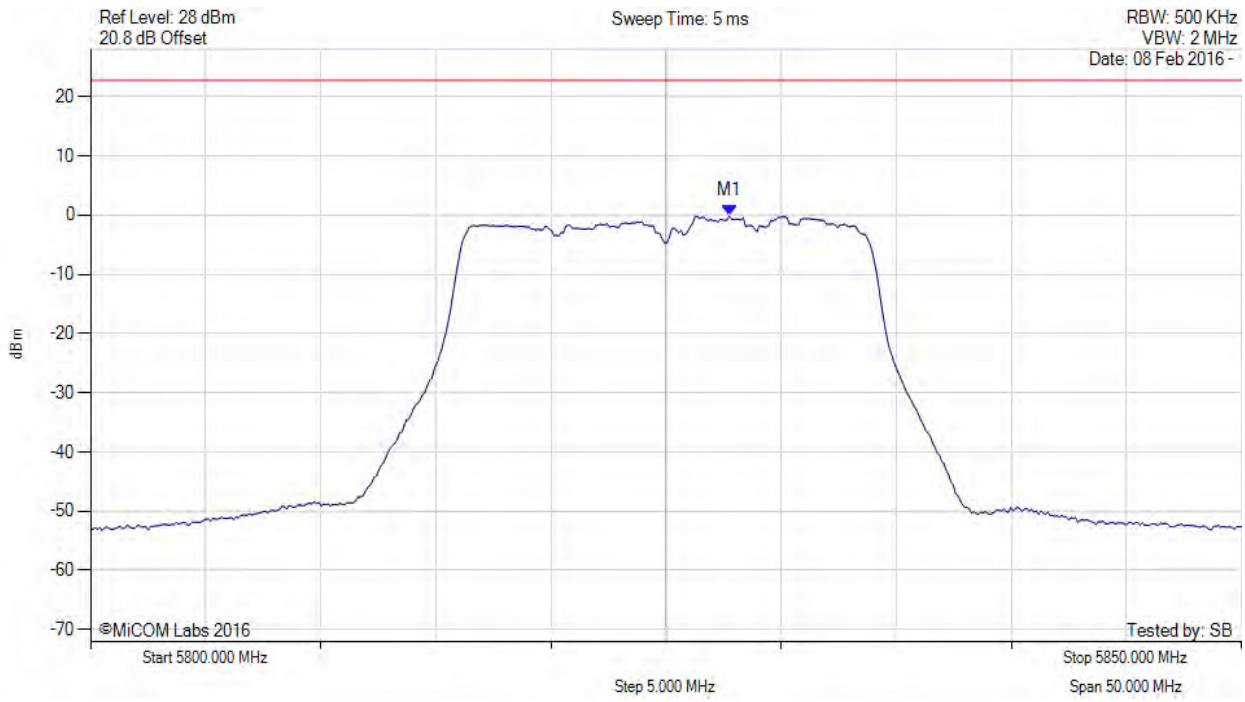
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5827.555 MHz : 1.444 dBm	Limit: ≤ 22.780 dBm

back to matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



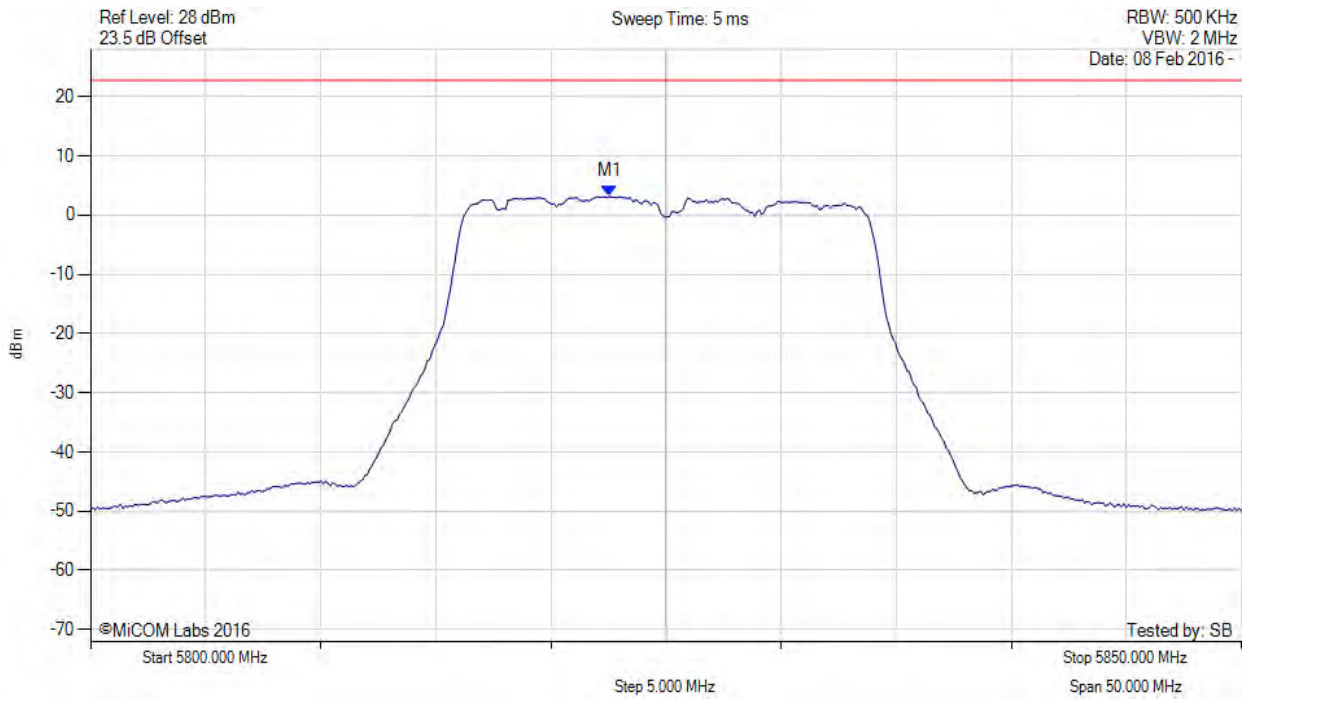
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5827.756 MHz : -0.160 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



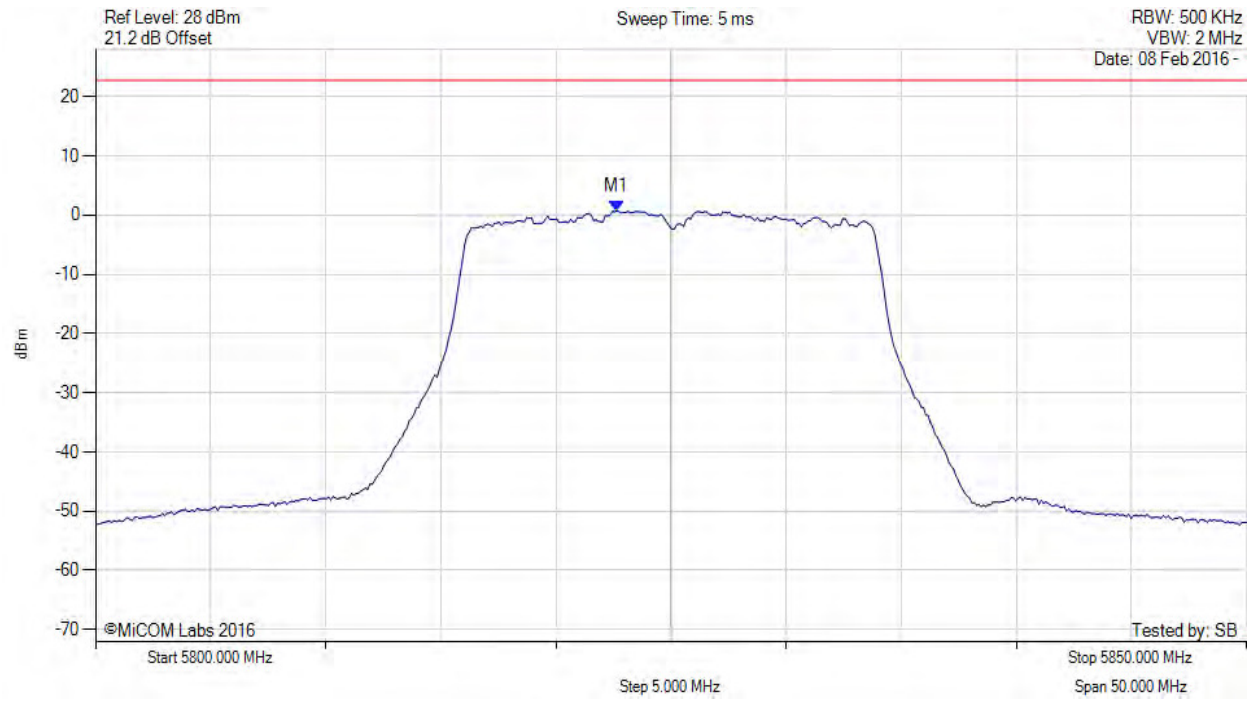
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5822.545 MHz : 3.129 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



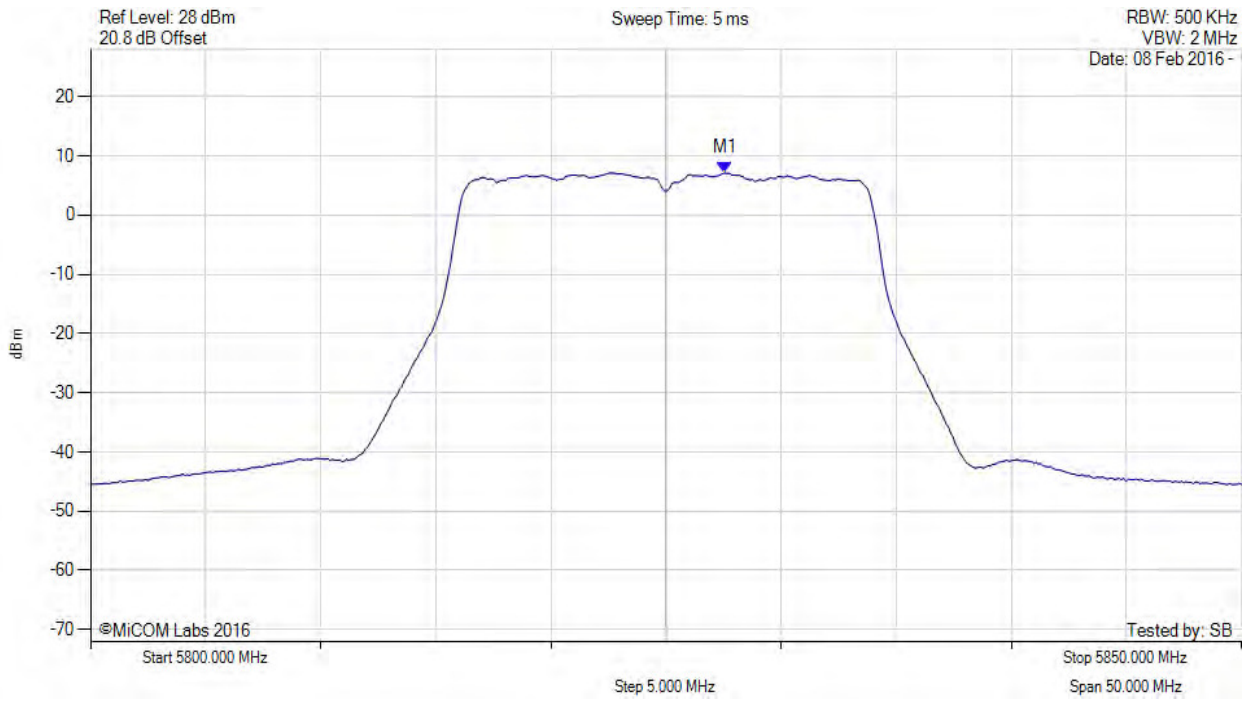
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5822.645 MHz : 0.678 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



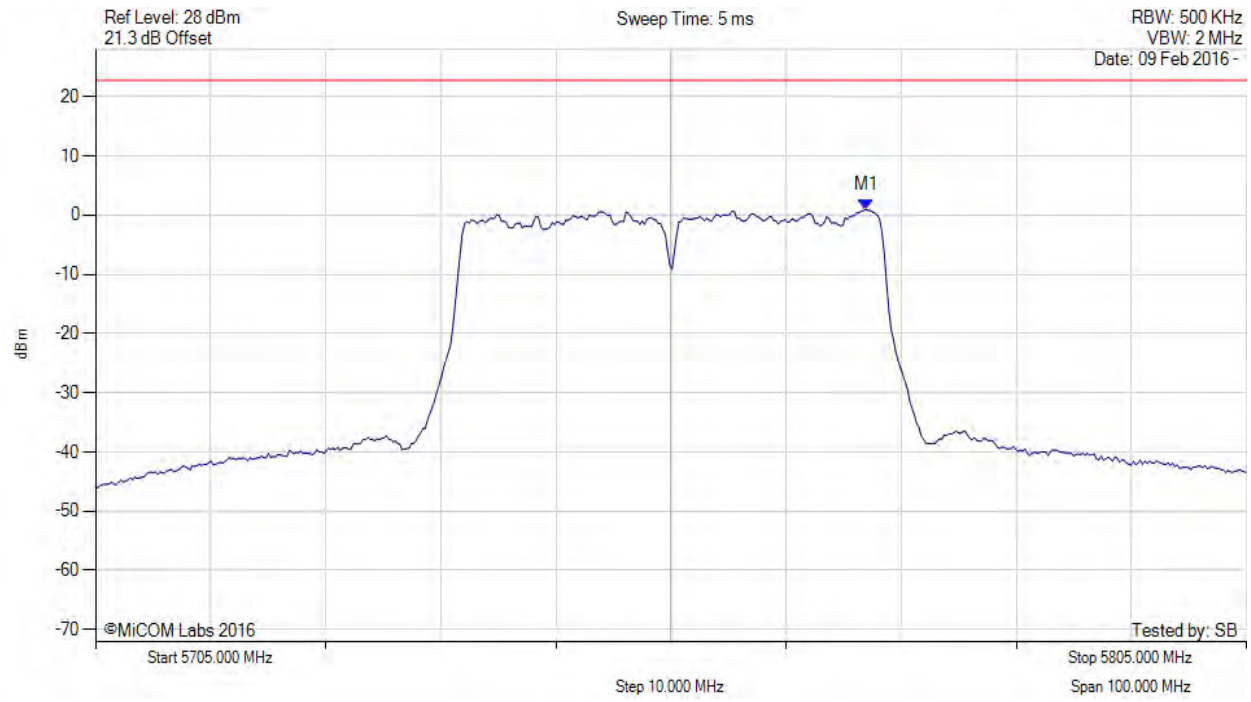
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5827.600 MHz : 7.119 dBm M1 + DCCF : 5827.600 MHz : 7.251 dBm Duty Cycle Correction Factor : +0.13 dB	Limit: ≤ 28.8 dBm Margin: -21.6 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



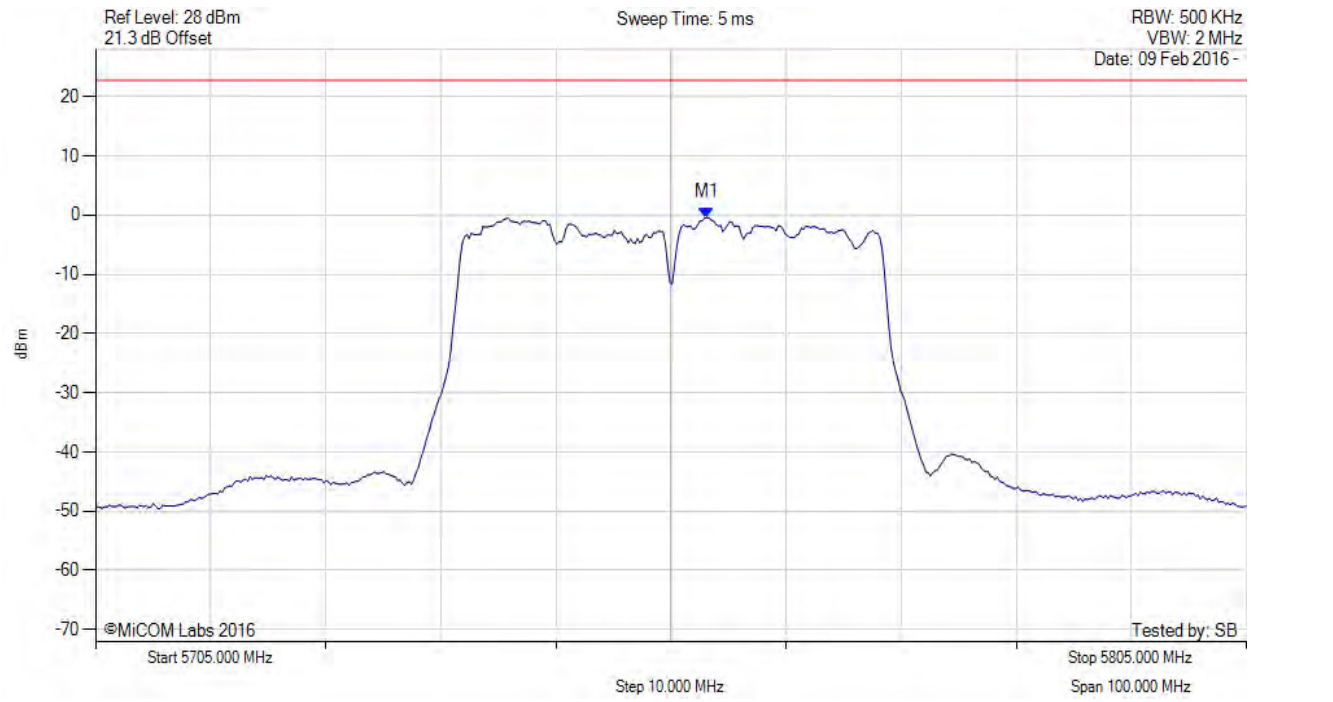
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5771.934 MHz : 0.922 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



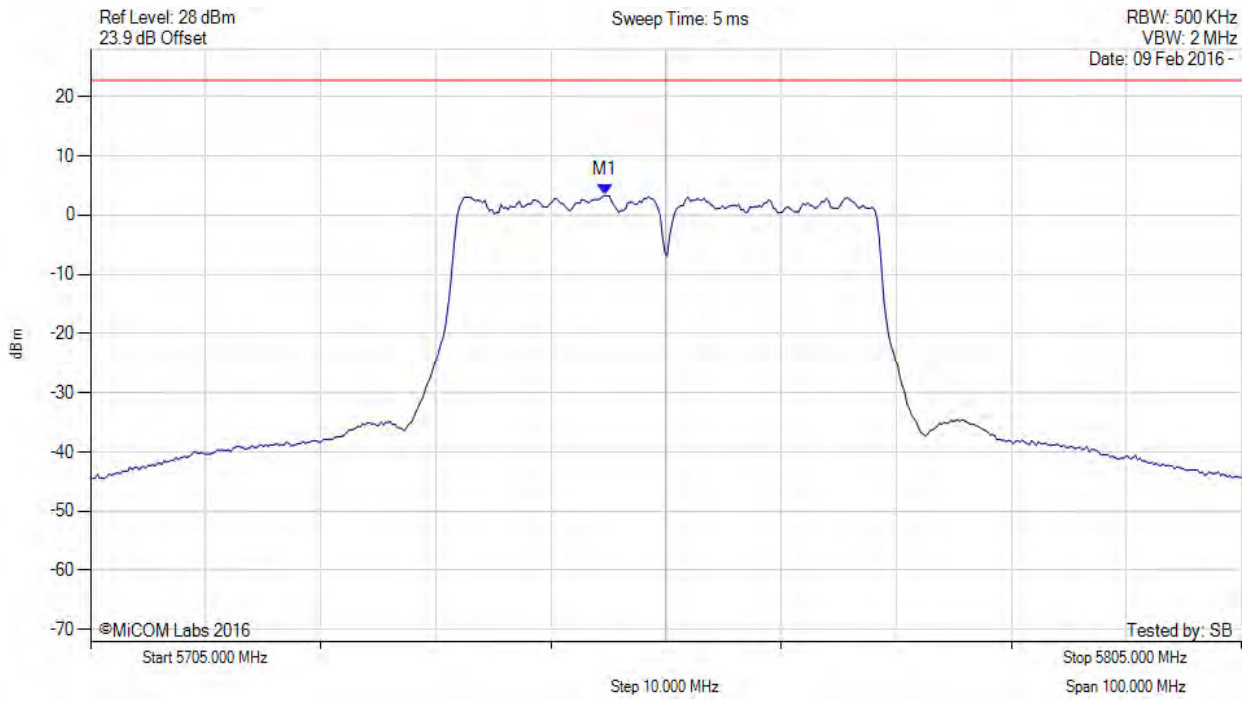
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5758.106 MHz : -0.428 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



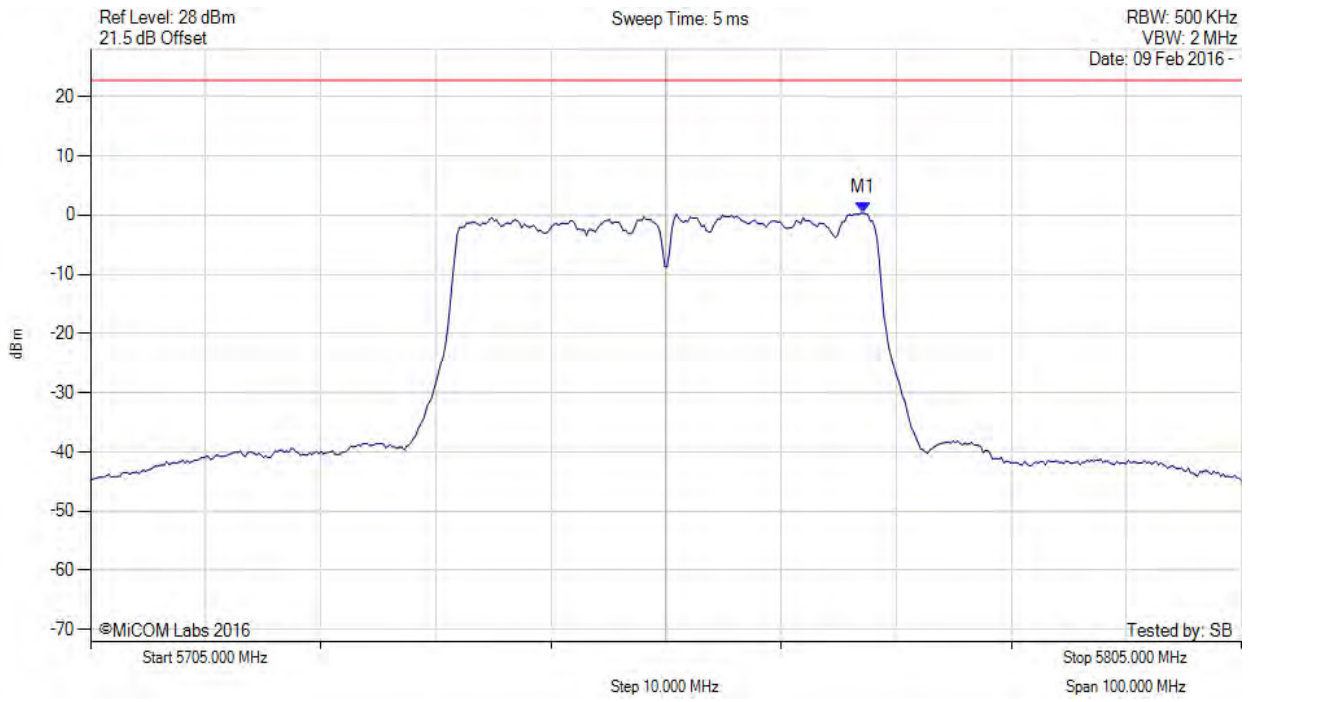
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5749.689 MHz : 3.346 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



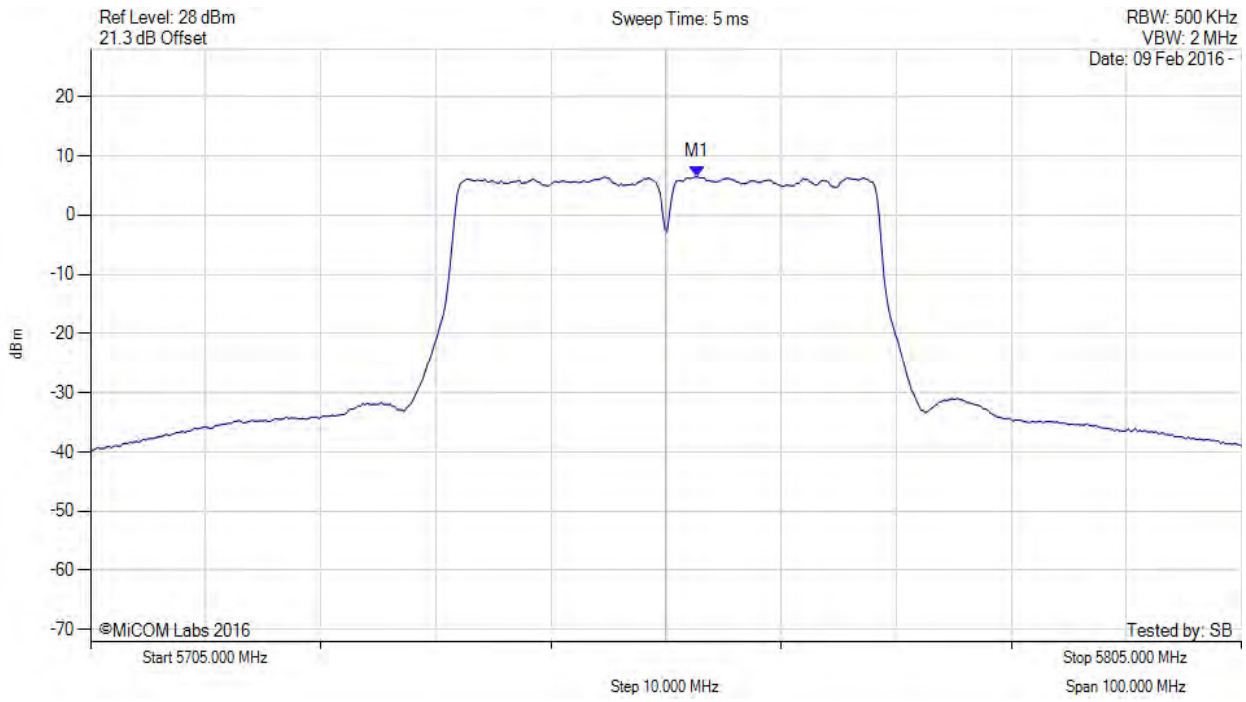
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5772.134 MHz : 0.324 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



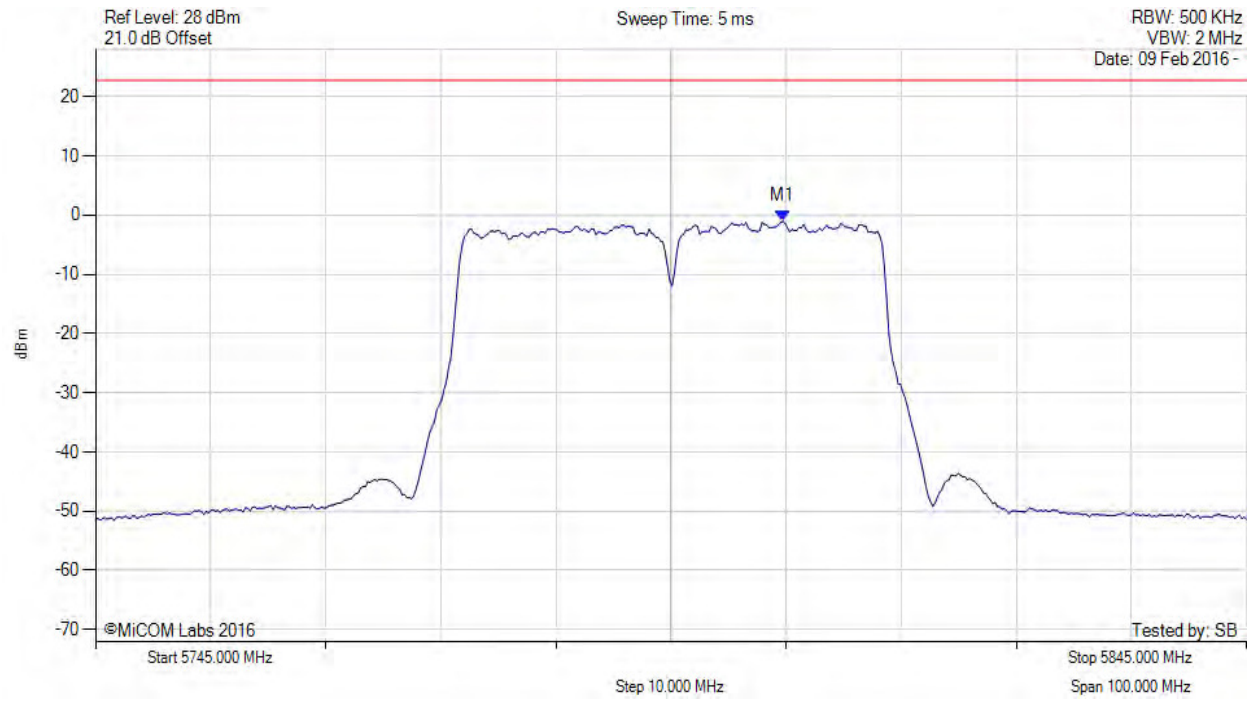
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5757.700 MHz : 6.485 dBm M1 + DCCF : 5757.700 MHz : 6.595 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 28.8 dBm Margin: -22.2 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



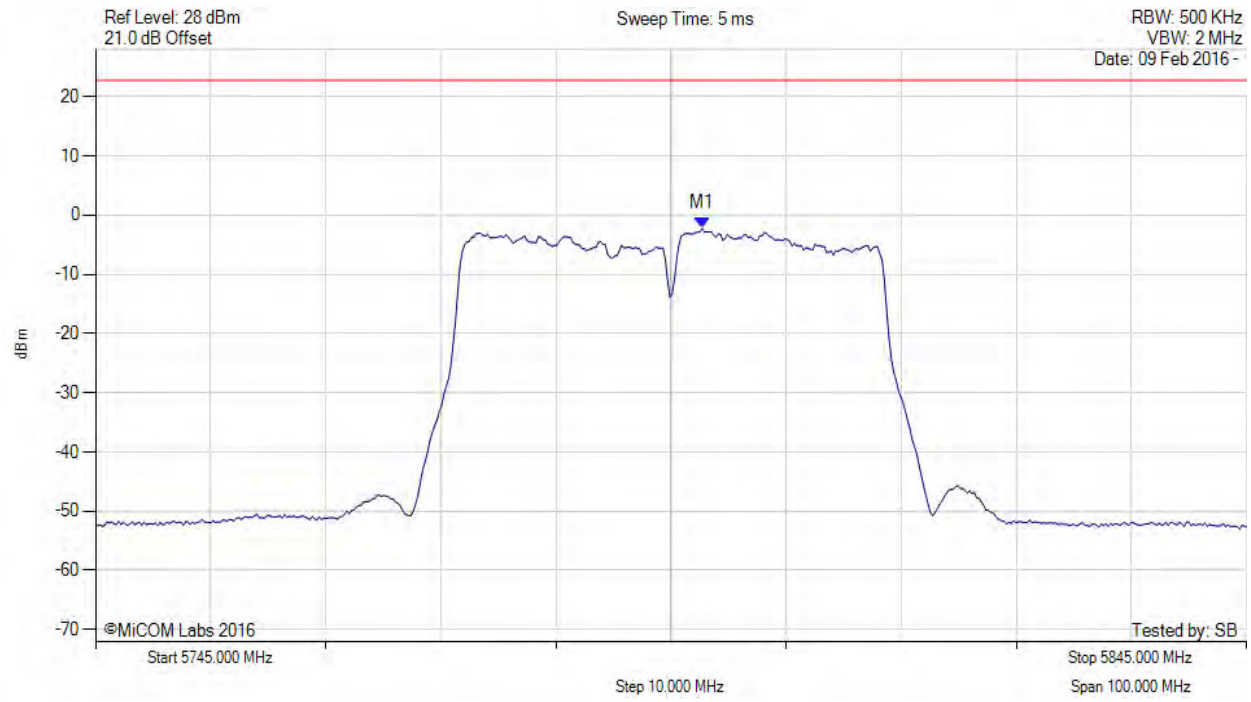
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5804.719 MHz : -1.045 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



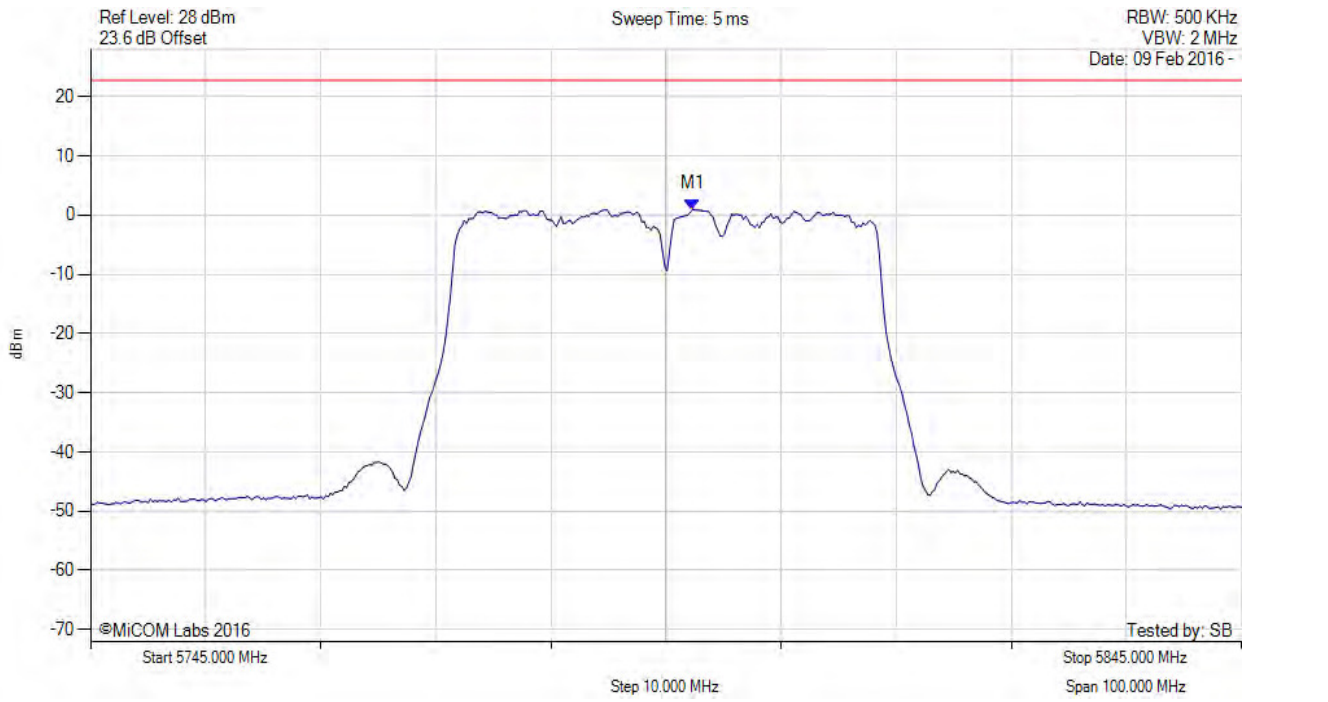
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.705 MHz : -2.238 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



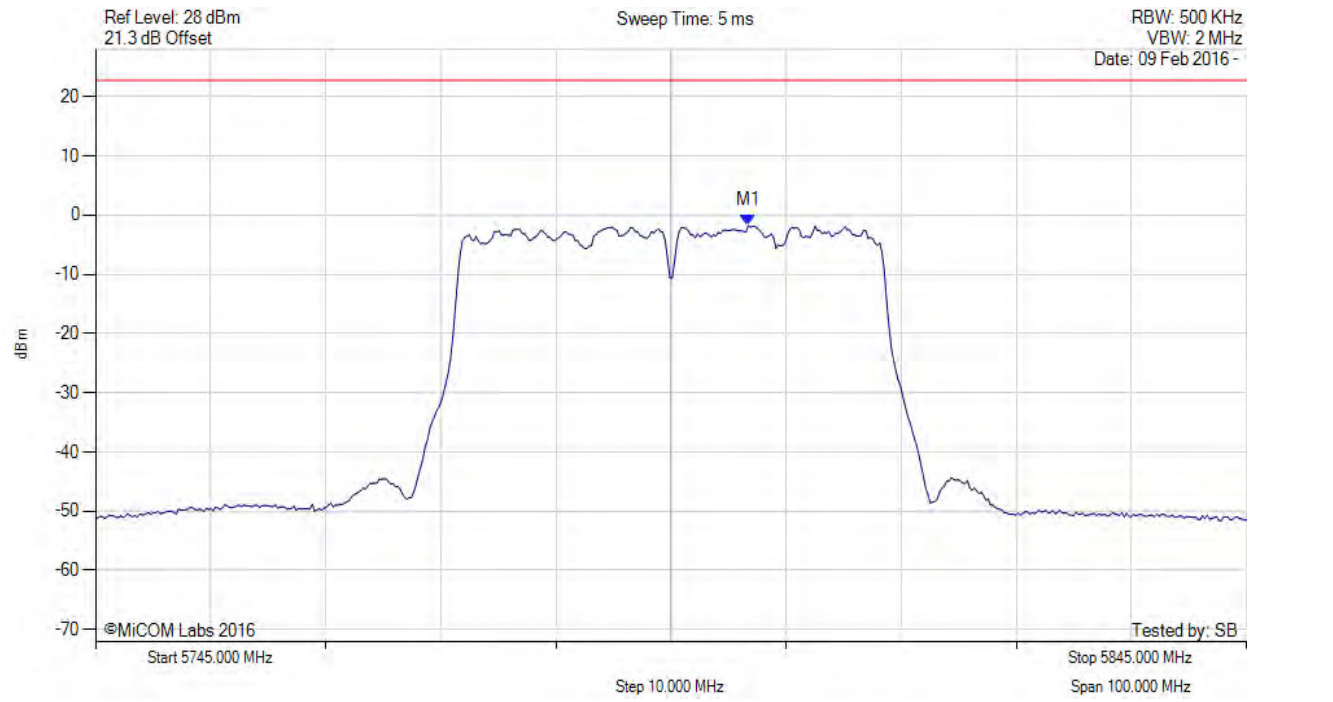
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.305 MHz : 0.965 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



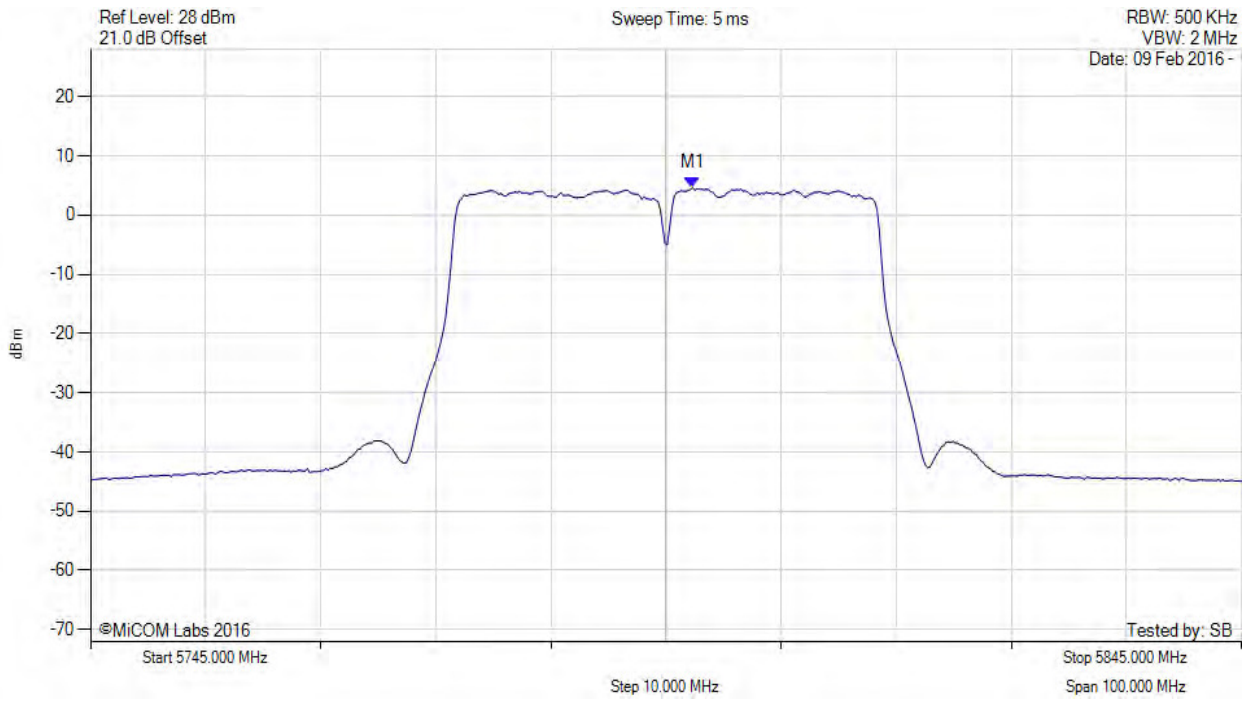
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5801.713 MHz : -1.809 dBm	Limit: ≤ 22.780 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



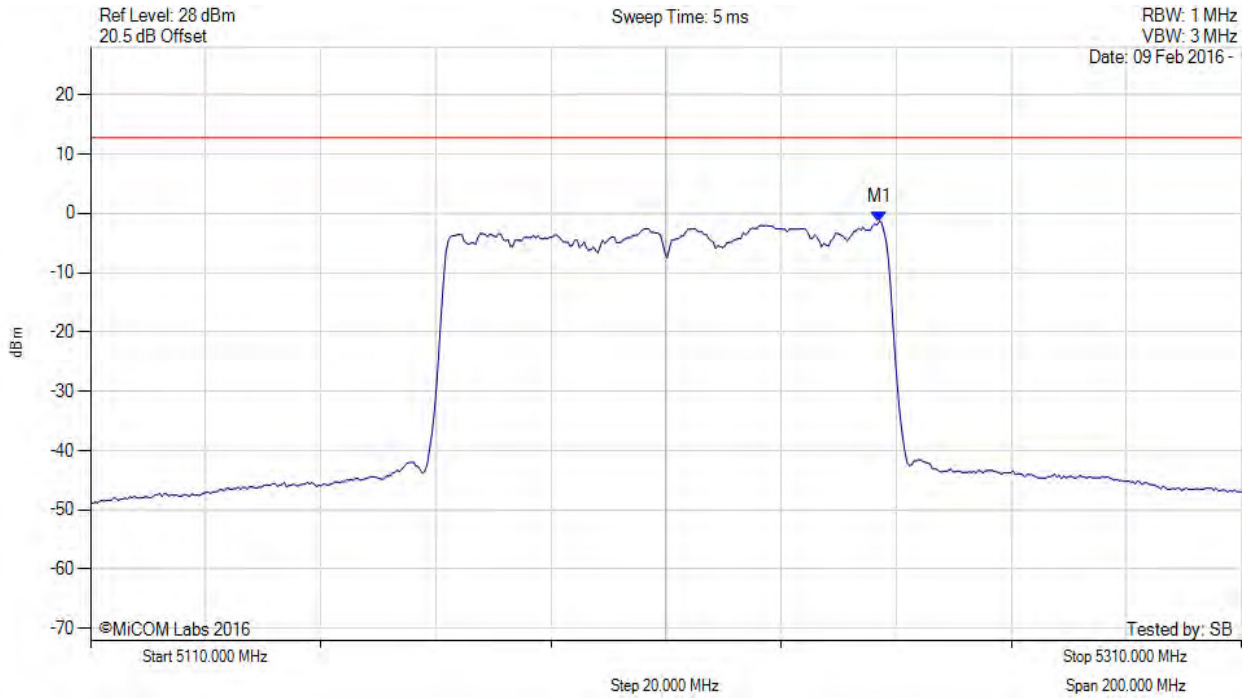
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.300 MHz : 4.607 dBm M1 + DCCF : 5797.300 MHz : 4.717 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 28.8 dBm Margin: -24.1 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



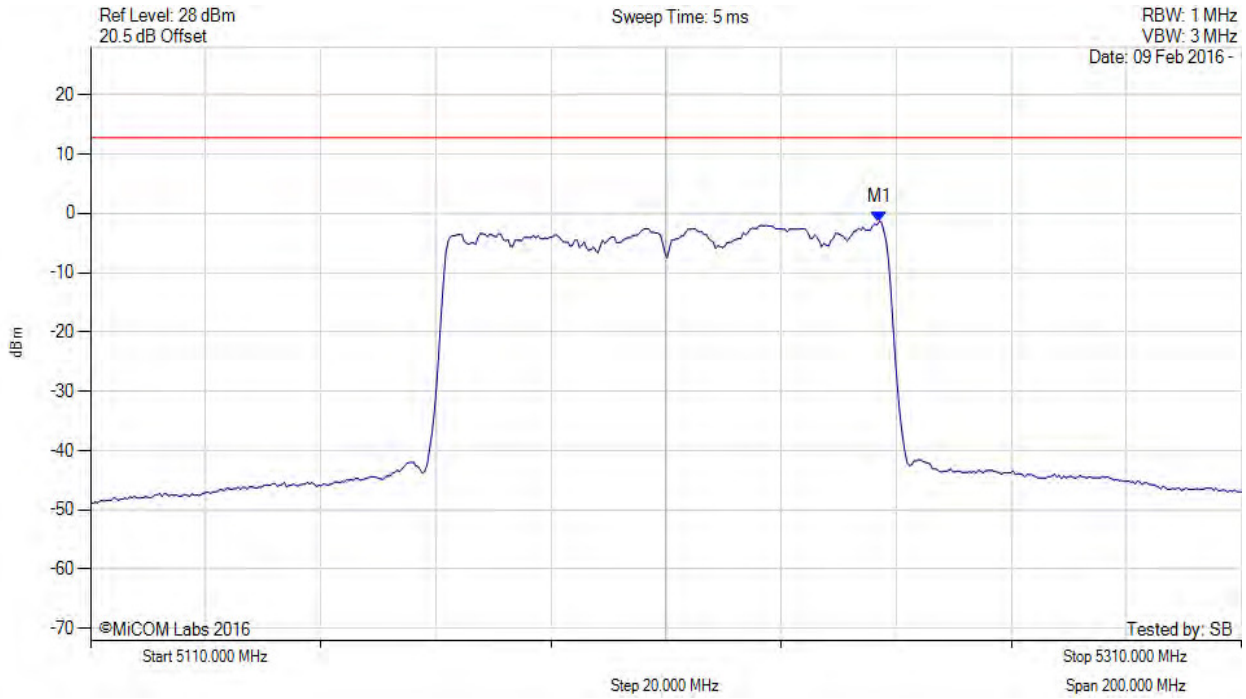
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.074 MHz : -1.387 dBm	Limit: ≤ 12.790 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



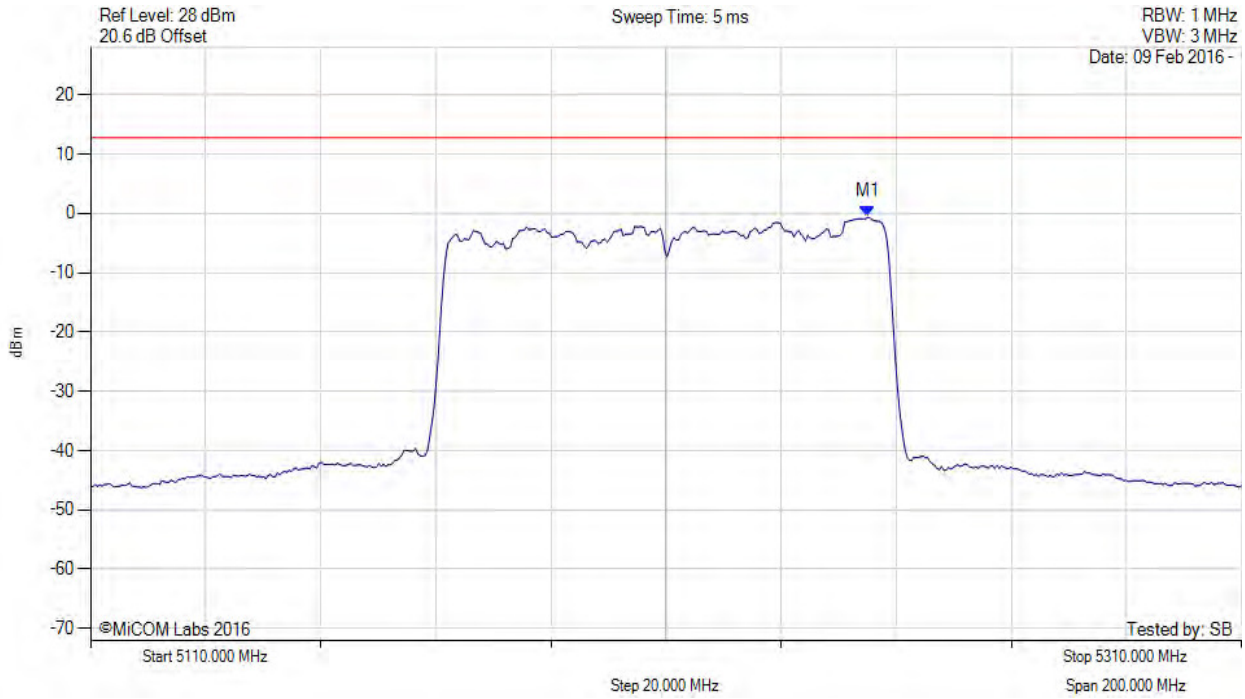
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.074 MHz : -1.387 dBm	Limit: ≤ 12.790 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 48 Vdc



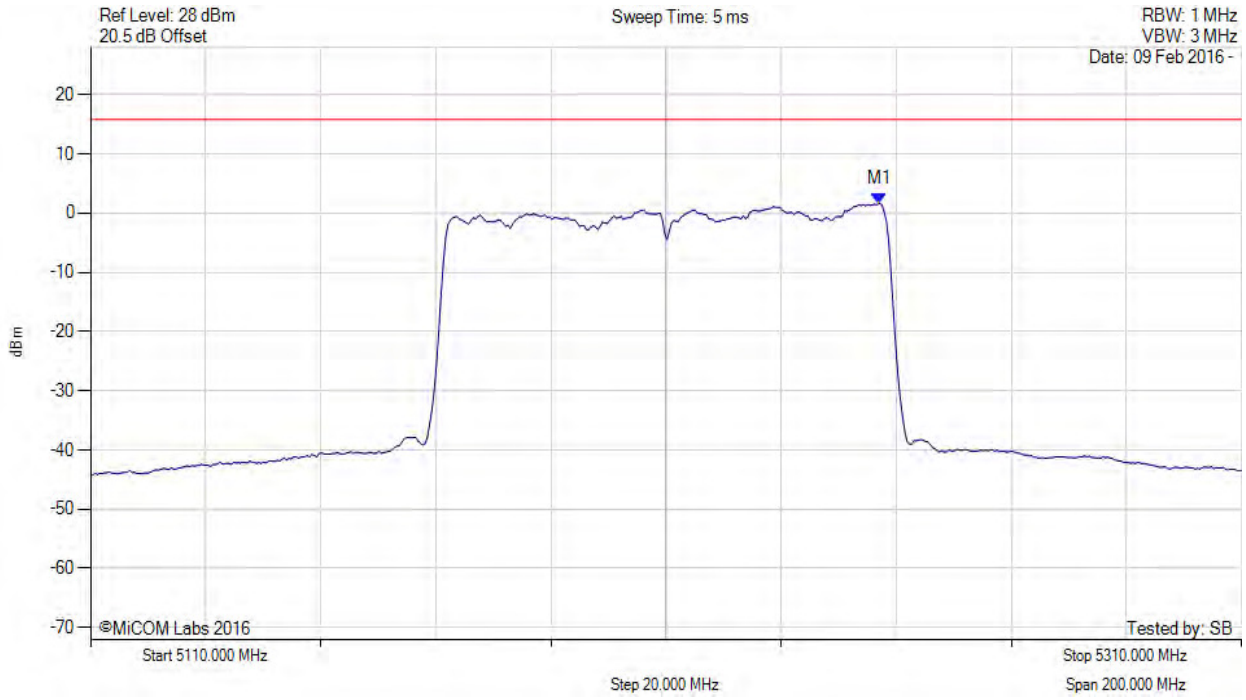
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.070 MHz : -0.637 dBm	Limit: ≤ 12.790 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



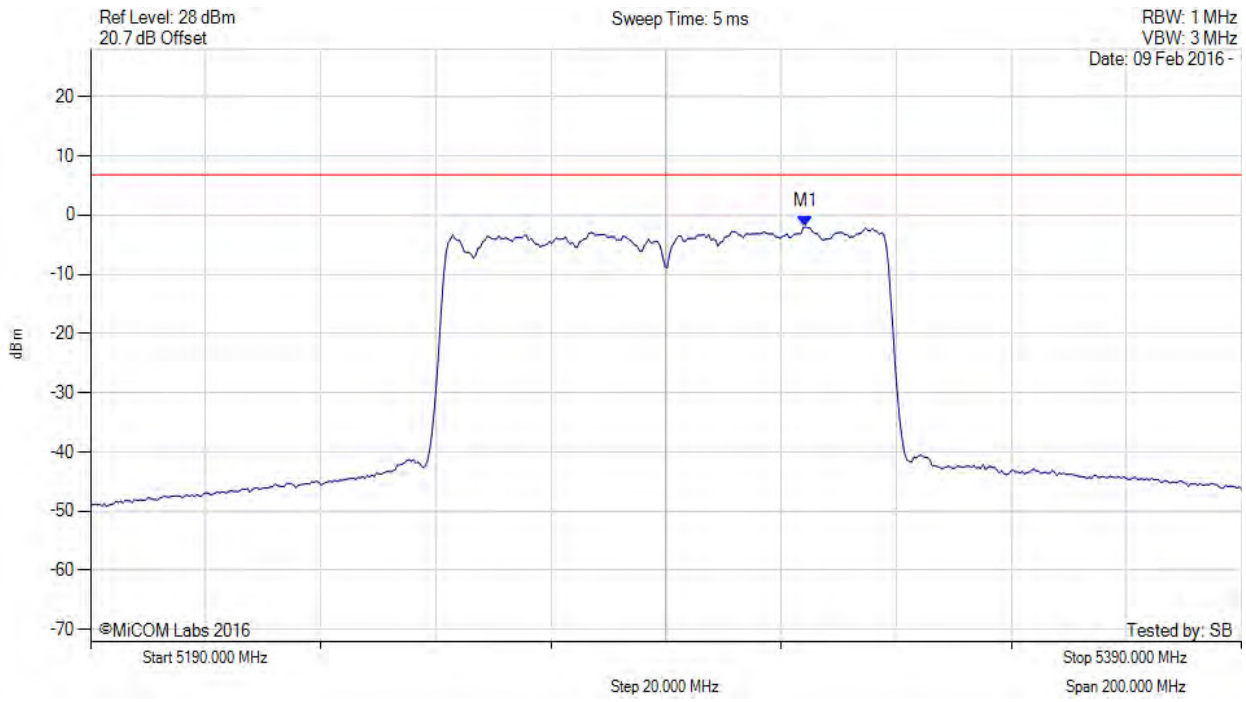
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.100 MHz : 1.652 dBm M1 + DCCF : 5247.100 MHz : 1.875 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 15.8 dBm Margin: -13.9 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: Ambient, Voltage: 48 Vdc



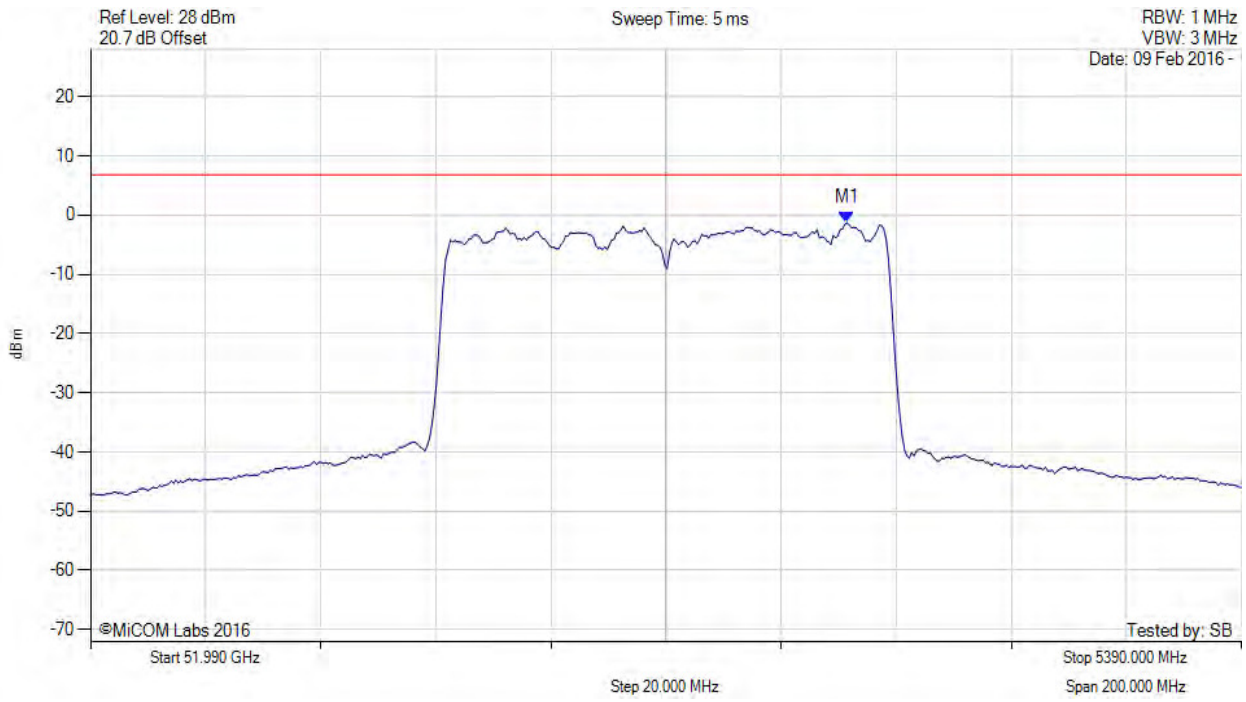
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5314.248 MHz : -2.029 dBm	Limit: ≤ 6.790 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



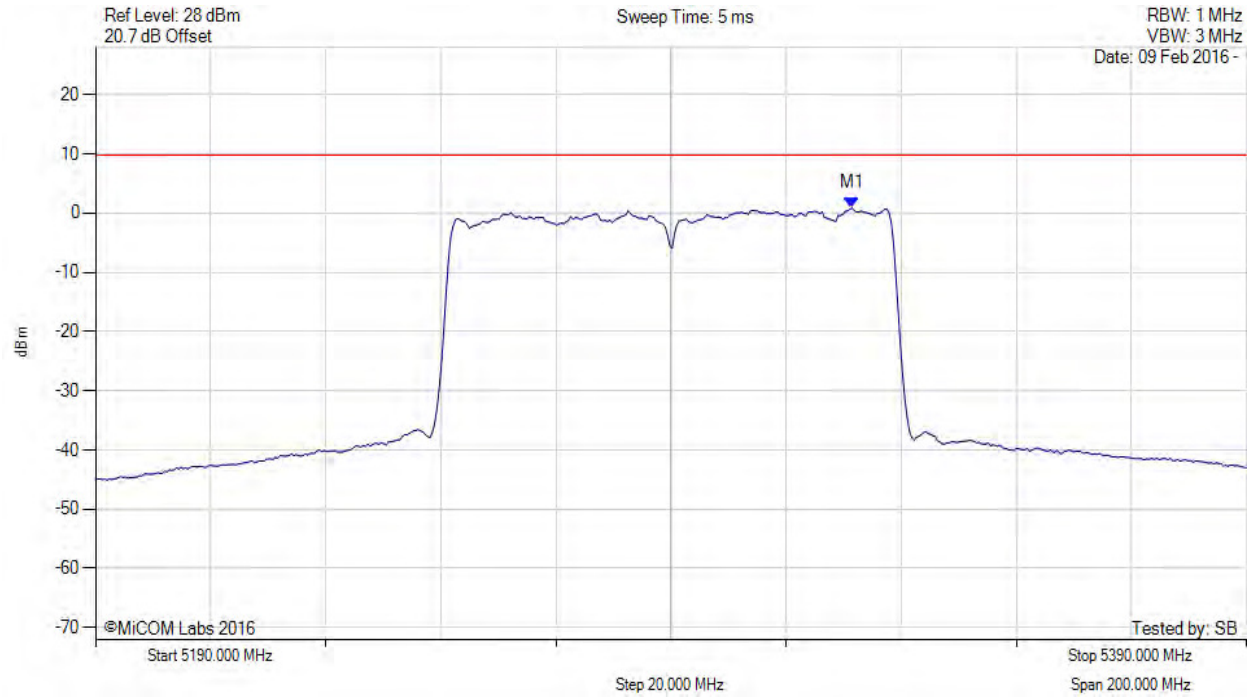
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5321.463 MHz : -1.303 dBm	Limit: ≤ 6.790 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



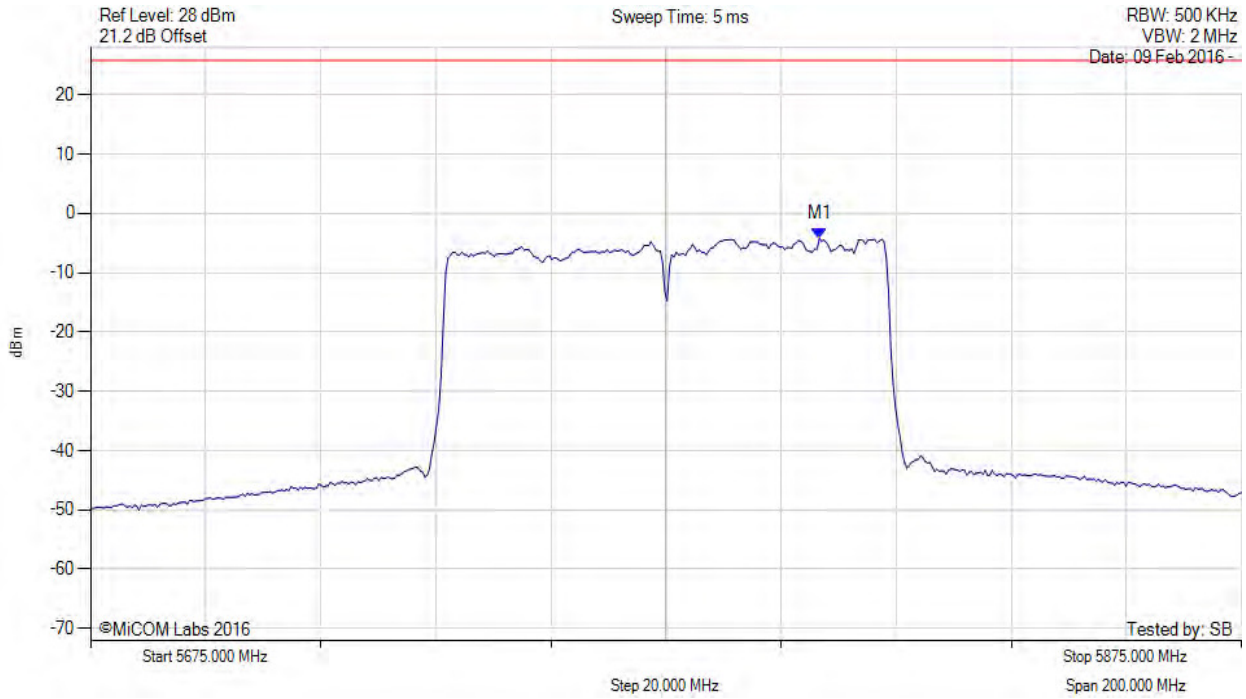
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5321.500 MHz : 0.843 dBm M1 + DCCF : 5321.500 MHz : 1.066 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 9.8 dBm Margin: -8.7 dB

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 48 Vdc



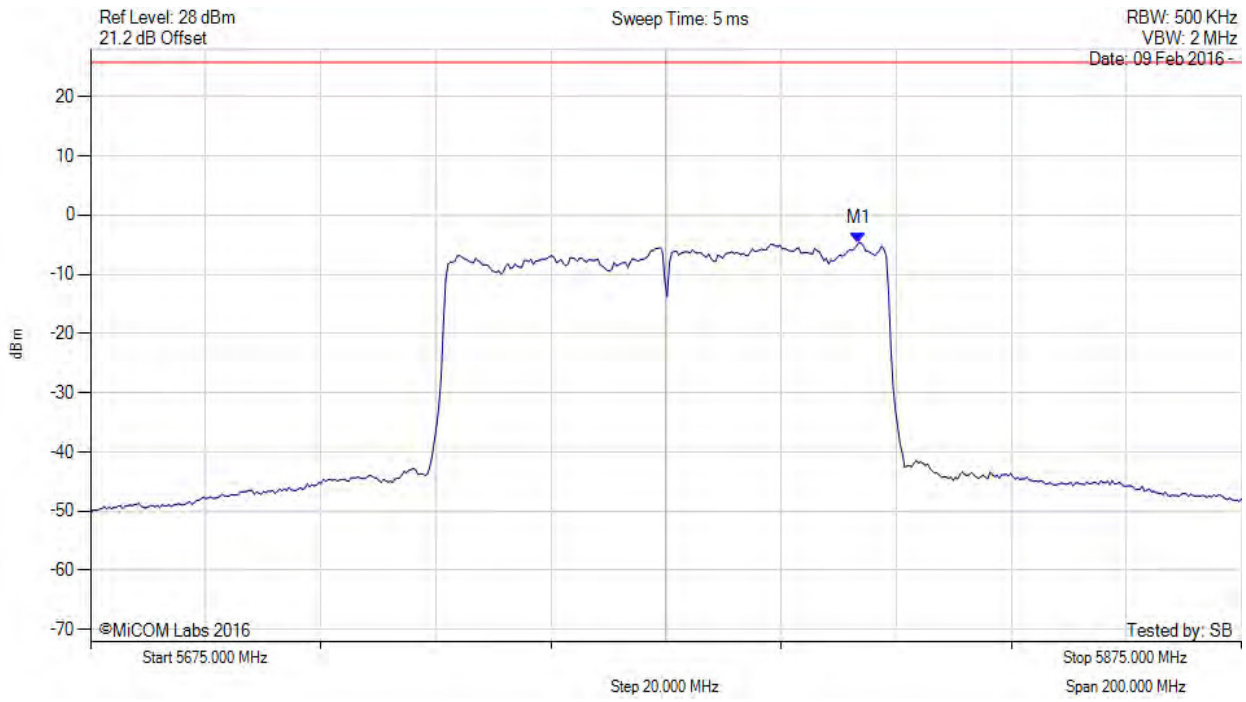
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5801.653 MHz : -4.245 dBm	Limit: ≤ 25.790 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 48 Vdc



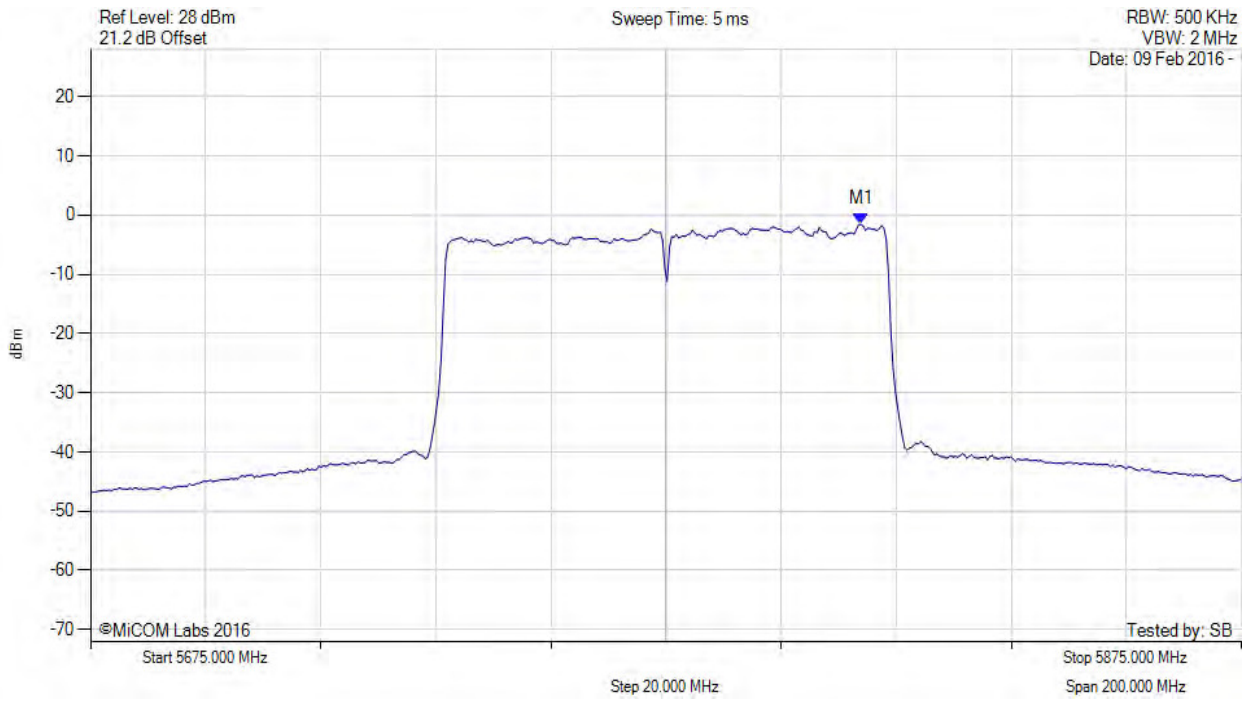
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5808.467 MHz : -4.691 dBm	Limit: ≤ 25.790 dBm

back to matrix

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POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: Ambient, Voltage: 48 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5808.900 MHz : -1.566 dBm M1 + DCCF : 5808.900 MHz : -1.343 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 28.8 dBm Margin: -30.2 dB

back to matrix

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