TEST REPORT ADDENDUM – CONDUCTED

FROM

Test of: Aruba Networks APIN0314, APIN0315

to

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

Test Report Serial No.: ARUB204-U8_Conducted Rev A

Issue Date: 8th April 2016

Master Document Number	Addendum Reports
ARUB204-U8_Master	ARUB204-U8_Conducted
	ARUB204-U8_Radiated
	ARUB204-U17 (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 27
A. APPENDIX - GRAPHICAL IMAGES 39
A.1. 26 dB & 99% Bandwidth 40
A.2. Power Spectral Density 119

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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	Data Link
(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 parameters was used to determine the maximum compliant conducted output power.

Operational Mode ac80 + ac80

For 80 + 80 operational modes in non-DFS bands the APIN0314 and APIN0315 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:**	AP-ANT-20W
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
Duty Cycle (%):	96.0	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.18 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	18.03	19.03	18.59	18.05	24.46	--	30.00	-3.54	18.00
5200.0	21.11	21.96	21.59	20.78	27.40	--	30.00	-2.60	21.00
5240.0	21.20	21.72	21.60	20.80	27.36	--	30.00	-2.64	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:	802.11ac-80	**Antenna Model:**	AP-ANT-40
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	91.0	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.41 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	14.27	15.05	14.86	14.15	20.62	--	28.30	-7.68	14.00

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 +80)	**Antenna Model:**	AP-ANT-40
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	91.0	**Tested By:**	CC
Engineering Test Notes:	APIN0314 was transmitting on Frequency 5210 + 5775 MHz.		

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.41 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	14.06	--	14.58	--	17.34	--	28.30	-10.96	14.00

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-20	**Antenna Model:**	AP-ANT-40
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	98.0	**Tested By:**	CC
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	
5180.0	17.34	18.34	17.86	17.25	23.74	--	28.30	-5.56	17.50
5200.0	19.88	20.74	20.43	19.53	26.19	--	28.30	-2.11	20.00
5240.0	20.08	20.63	20.41	19.61	26.22	--	28.30	-2.08	20.00

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:**	AP-ANT-40
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	95.0	**Tested By:**	CC
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	
5190.0	15.71	16.79	16.38	15.60	22.17	--	28.30	-5.13	15.50
5230.0	21.38	22.12	21.78	21.05	27.62	--	28.30	-0.68	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:**	AP-ANT-20W
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
Duty Cycle (%):	96.0	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.18 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	20.74	21.20	21.31	20.43	26.95	--	30.00	-3.05	20.00
5785.0	20.89	21.28	21.34	20.56	27.05	--	30.00	-2.95	20.00
5825.0	20.50	21.06	21.13	20.09	26.73	--	30.00	-3.27	19.50

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	**Antenna Model:**	AP-ANT-40
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	91.0	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.41 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	18.62	18.89	19.13	18.51	24.81	--	28.30	-3.49	17.50

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 +80)	**Antenna Model:**	AP-ANT-40
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	91.0	**Tested By:**	CC
Engineering Test Notes:	APIN0314 was transmitting on Frequency 5775 + 5210 MHz.		

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.41 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	19.45	--	19.99	--	22.74	--	28.30	-5.56	17.50

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:	802.11n HT-20	**Antenna Model:**	AP-ANT-40
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	98.0	**Tested By:**	CC
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	
5745.0	20.67	21.10	21.32	20.55	26.94	--	28.30	-2.36	20.00
5785.0	20.82	21.17	21.26	20.61	26.99	--	28.30	-1.31	20.00
5825.0	20.39	21.03	21.05	20.26	26.72	--	28.30	-1.58	19.50

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:	802.11n HT-40	**Antenna Model:**	AP-ANT-40
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
Duty Cycle (%):	95.0	**Tested By:**	CC
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	
5755.0	19.50	19.57	20.07	19.25	25.68	--	28.30	-2.62	18.50
5795.0	20.22	20.45	20.47	19.96	26.30	--	28.30	-2.00	19.00

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:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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	165.932	184.770	172.345	173.547	184.770	165.932		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5210.0	76.954	77.355	76.954	76.553	77.355	76.553		

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 +80)	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	APIN0314 was transmitting on Frequency 5210 + 5775 MHz.		

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	210.421	--	212.104	--	212.104	210.421		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5210.0	131.303	--	141.403	--	141.403	131.303		

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-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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	29.459	32.665	26.854	26.353	32.665	26.353		
5200.0	32.164	34.369	26.052	26.253	34.369	26.052		
5240.0	35.471	32.565	31.864	28.457	35.471	28.457		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	18.036	18.136	17.936	17.936	18.136	17.936		
5200.0	18.036	18.236	17.836	17.936	18.236	17.836		
5240.0	18.337	18.036	18.236	18.036	18.337	18.036		

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 (%):**	95.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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	93.387	94.188	95.792	89.379	95.792	89.379		
5230.0	98.397	97.595	95.591	92.585	98.397	92.585		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5190.0	55.912	59.920	57.315	54.509	59.920	54.509		
5230.0	62.525	64.729	61.122	54.509	64.729	54.509		

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 (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	3.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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	38.778	38.778	38.577	39.379	39.379	38.577		
5785.0	40.281	40.180	38.477	40.982	40.982	38.477		
5825.0	40.681	42.685	40.581	39.579	42.685	39.579		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	20.641	21.142	19.639	24.749	24.749	19.639		
5785.0	24.349	24.549	21.643	25.351	25.351	21.643		
5825.0	24.850	28.657	25.651	23.447	28.657	23.447		

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 (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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	134.669	122.244	133.467	158.717	158.717	122.244		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5775.0	76.553	76.553	76.553	77.355	77.355	76.553		

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 +80)	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	7.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	APIN0314 was transmitting on Frequency 5775 + 5210 MHz.		

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	241.844	--	236.232	--	241.844	236.232		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5775.0	161.603	--	166.653	--	166.653	161.603		

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-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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	38.176	38.176	36.473	40.381	40.381	36.473		
5785.0	40.180	40.180	37.575	40.481	40.481	37.575		
5825.0	41.182	44.689	41.182	39.078	44.689	39.078		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	18.838	19.138	18.537	23.146	23.146	18.537		
5785.0	22.244	22.645	19.739	23.347	23.347	19.739		
5825.0	22.946	27.655	24.749	22.645	27.655	22.645		

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 (%):**	95.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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	94.790	90.982	90.982	98.798	98.798	90.982		
5795.0	95.992	95.591	92.184	98.397	98.397	92.184		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5755.0	53.507	46.493	47.896	60.721	60.721	46.493		
5795.0	60.521	57.515	51.703	61.723	61.723	51.703		

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 possible that the individual port measurement may break the limit line however it's the summation plot that determines compliance and not the individual antenna port measurements.

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5180.0	9.382	10.102	9.358	10.094	15.148	17.0	-1.9
5200.0	9.396	10.013	10.002	9.722	15.094	17.0	-1.9
5240.0	9.732	10.486	10.058	9.736	15.586	17.0	-1.4

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 (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.41 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5210.0	0.603	1.128	0.977	0.556	6.454	15.3	-8.9

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).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80 (80+80)	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	APIN0314 was transmitting on Frequency 5210 + 5775 MHz.		

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.41 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5210.0	2.728	--	3.371	--	6.229	15.3	-9.1

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).

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 (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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
5180.0	8.083	9.098	8.849	8.652	14.468	15.3	-0.9
5200.0	8.078	9.076	9.030	8.299	14.355	15.3	-1.0
5240.0	8.149	9.129	8.838	8.350	14.248	15.3	-1.1

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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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	95.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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**
5190.0	6.206	7.328	7.089	6.967	12.458	15.3	-2.9
5230.0	6.316	6.911	7.116	6.688	12.347	15.3	-3.0

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 (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	a	b	c	d	dBm/500 KHz	dBm/500 KHz	dB
5745.0	6.308	6.459	7.558	6.586	12.313	30.0	-17.7
5785.0	6.262	6.742	7.215	6.294	11.871	30.0	-18.1
5825.0	6.179	6.885	6.964	6.946	12.104	30.0	-17.9

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).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.41 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5775.0	-2.195	-2.119	-1.526	-1.128	3.866	28.3	-24.5

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 (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	APIN0314 was transmitting on Frequency 5775 + 5210 MHz.		

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.41 dB)	Limit	Margin
MHz	a	b	c	d	dBm/500 KHz	dBm/500 KHz	dB
5775.0	--	0.429	--	1.581	4.112	28.3	-24.2

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 (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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**
5745.0	0.030	0.892	7.274	6.872	10.705	28.3	-17.6
5785.0	6.065	6.561	7.026	6.660	12.361	28.3	-16.0
5825.0	6.366	6.872	7.329	6.923	12.723	28.3	-15.6

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 (%):**	95.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
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**
5755.0	3.268	3.583	4.311	3.725	9.388	28.3	-18.9
5795.0	3.471	3.866	3.872	4.012	9.657	28.3	-18.7

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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A. APPENDIX - GRAPHICAL IMAGES

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A.1. 26 dB & 99% Bandwidth

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	2.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	CC
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	39.178	40.982	39.379	39.078	40.982	39.078		
5200.0	40.180	41.283	39.679	39.078	41.283	39.078		
5240.0	42.585	40.681	41.984	38.778	42.585	38.778		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	a	b	c	d	Highest	Lowest		
5180.0	21.343	25.351	21.944	22.846	25.351	21.343		
5200.0	23.747	26.453	23.046	21.944	26.453	21.944		
5240.0	27.756	26.553	25.852	22.345	27.756	22.345		

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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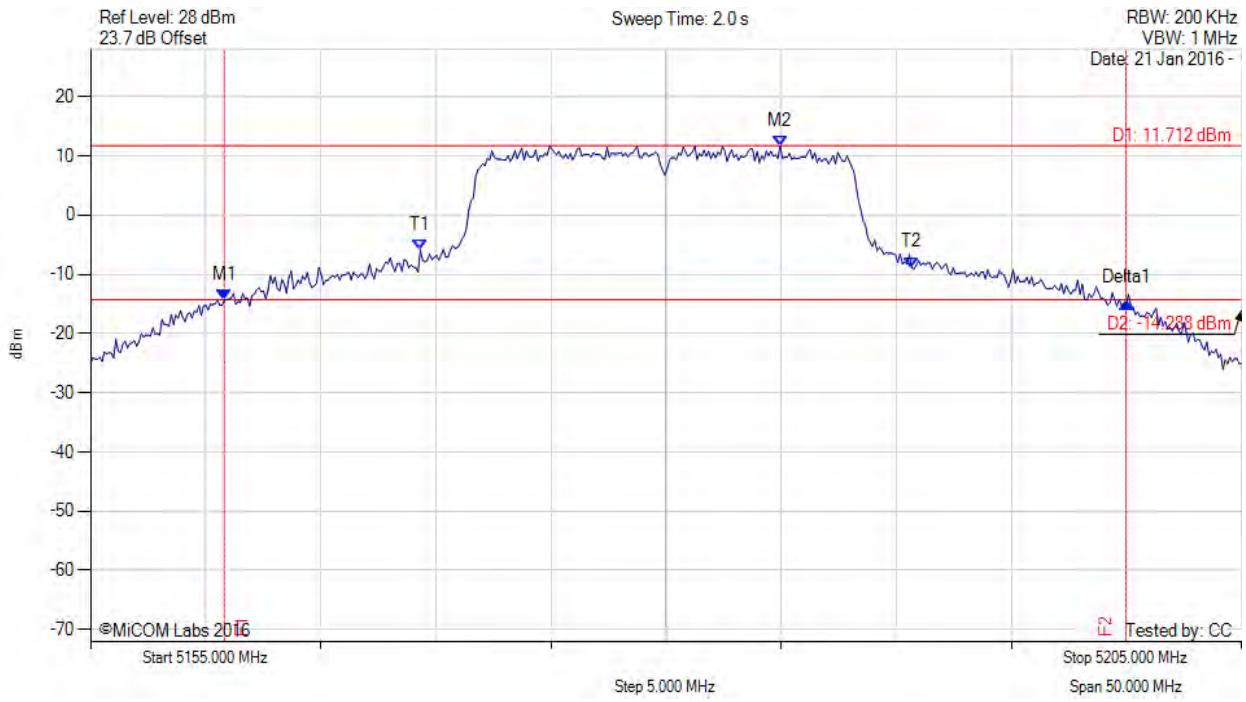
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5160.812 MHz : -14.404 dBm M2 : 5184.960 MHz : 11.712 dBm Delta1 : 39.178 MHz : -0.494 dB T1 : 5169.329 MHz : -5.935 dBm T2 : 5190.671 MHz : -8.839 dBm OBW : 21.343 MHz	Measured 26 dB Bandwidth: 39.178 MHz Measured 99% Bandwidth: 21.343 MHz

back to matrix

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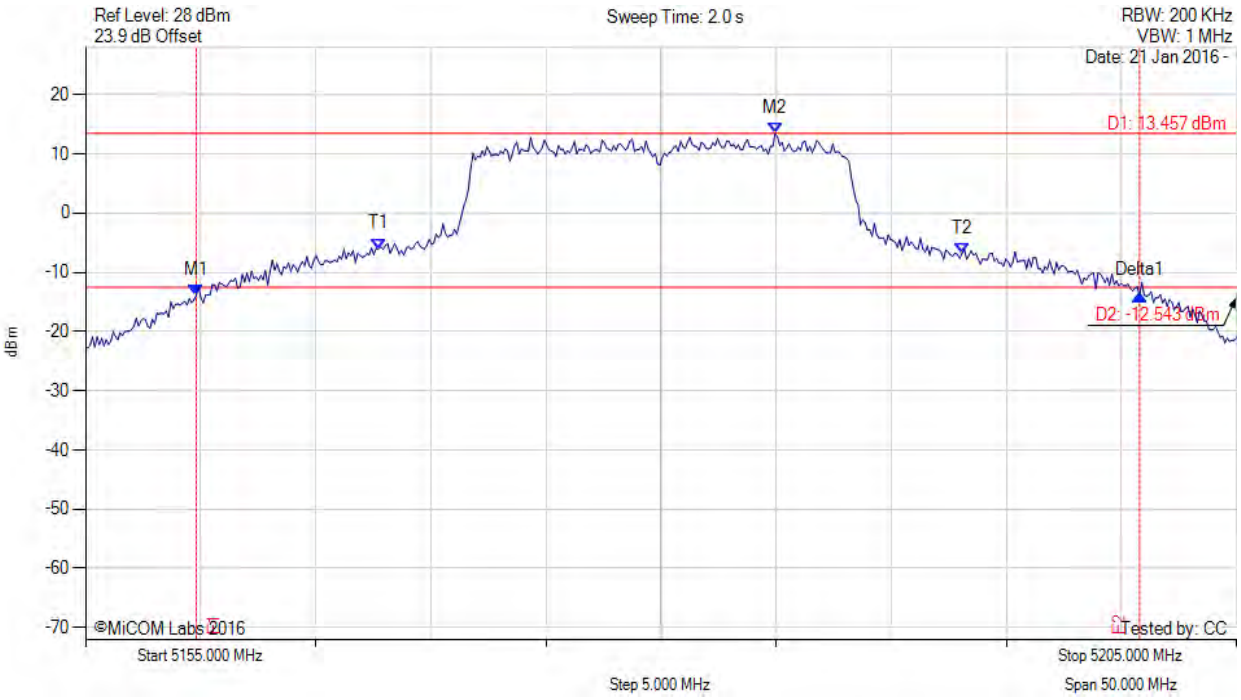
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5159.810 MHz : -13.946 dBm M2 : 5184.960 MHz : 13.457 dBm Delta1 : 40.982 MHz : 0.079 dB T1 : 5167.725 MHz : -6.023 dBm T2 : 5193.076 MHz : -6.818 dBm OBW : 25.351 MHz	Measured 26 dB Bandwidth: 40.982 MHz Measured 99% Bandwidth: 25.351 MHz

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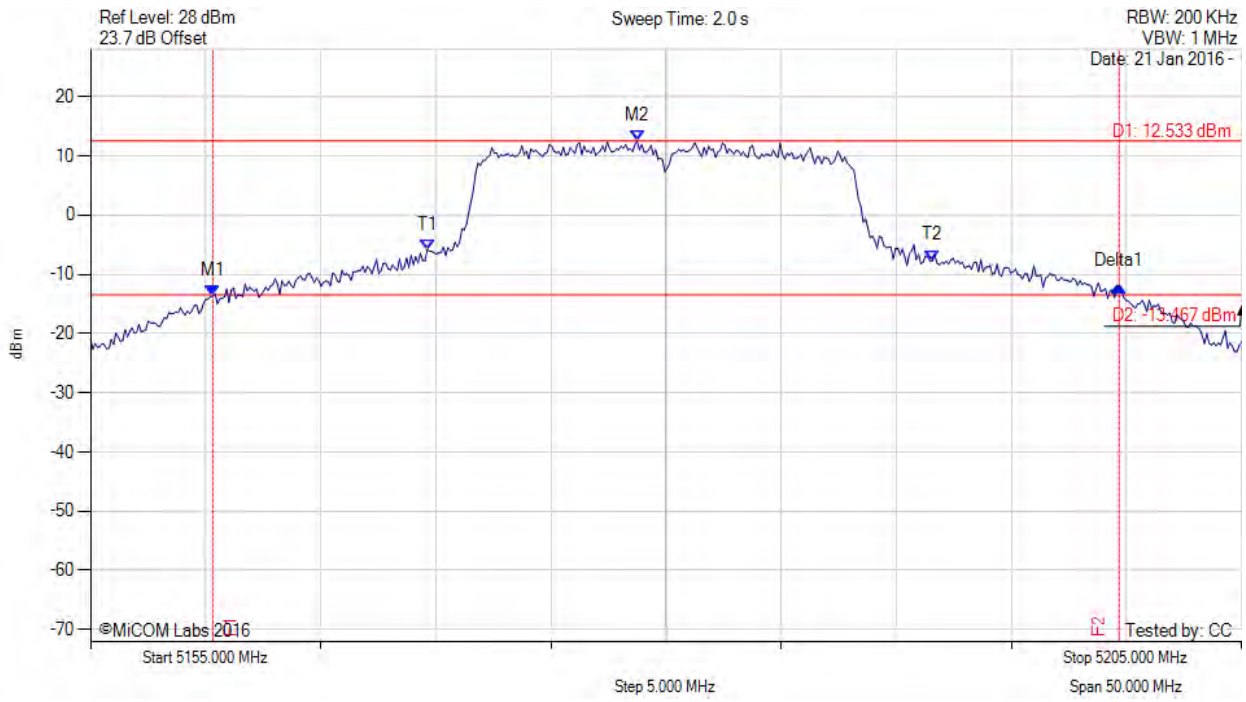
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5160.311 MHz : -13.696 dBm M2 : 5178.747 MHz : 12.533 dBm Delta1 : 39.379 MHz : 1.798 dB T1 : 5169.629 MHz : -5.835 dBm T2 : 5191.573 MHz : -7.682 dBm OBW : 21.944 MHz	Measured 26 dB Bandwidth: 39.379 MHz Measured 99% Bandwidth: 21.944 MHz

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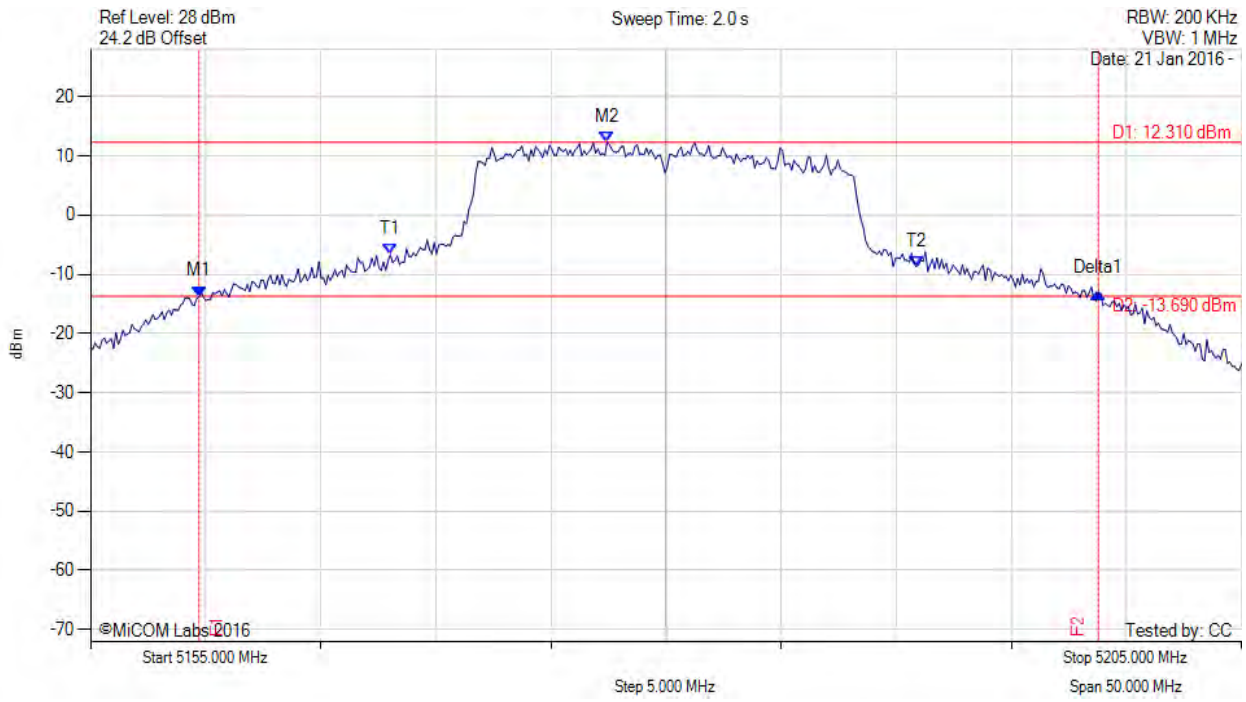
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5159.709 MHz : -13.751 dBm M2 : 5177.445 MHz : 12.310 dBm Delta1 : 39.078 MHz : 0.592 dB T1 : 5168.026 MHz : -6.690 dBm T2 : 5190.872 MHz : -8.673 dBm OBW : 22.846 MHz	Measured 26 dB Bandwidth: 39.078 MHz Measured 99% Bandwidth: 22.846 MHz

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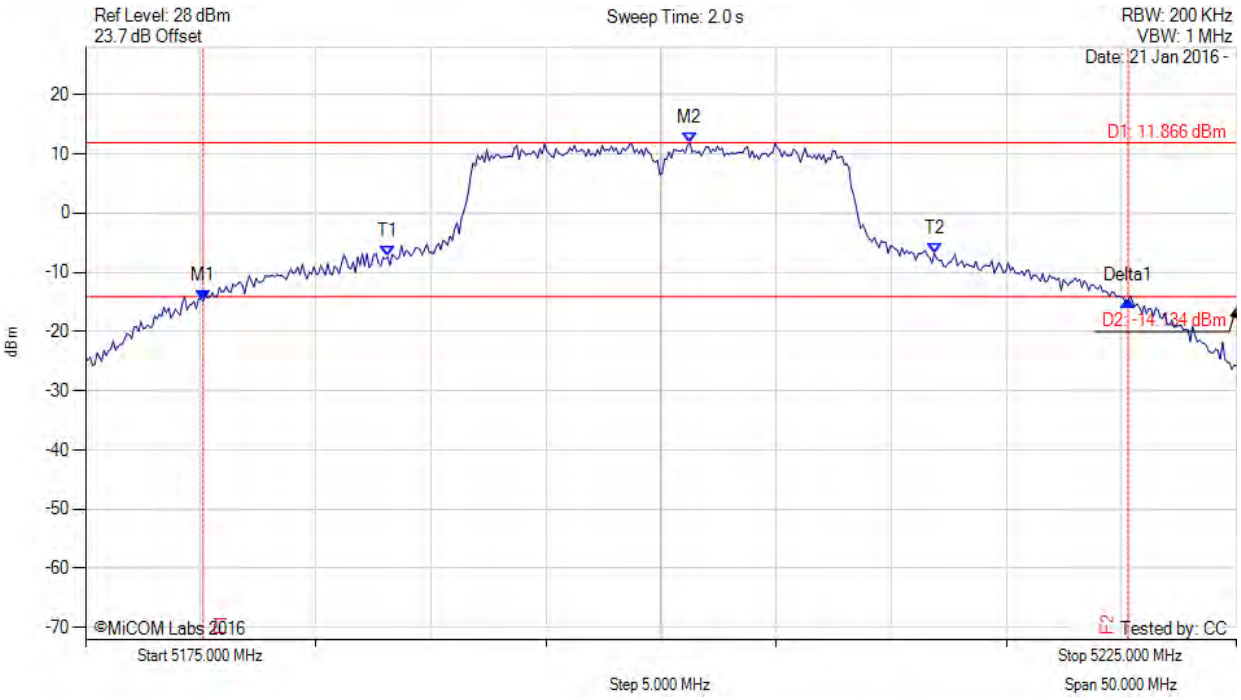
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5180.110 MHz : -14.886 dBm M2 : 5201.253 MHz : 11.866 dBm Delta1 : 40.180 MHz : 0.122 dB T1 : 5188.126 MHz : -7.369 dBm T2 : 5211.874 MHz : -6.801 dBm OBW : 23.747 MHz	Measured 26 dB Bandwidth: 40.180 MHz Measured 99% Bandwidth: 23.747 MHz

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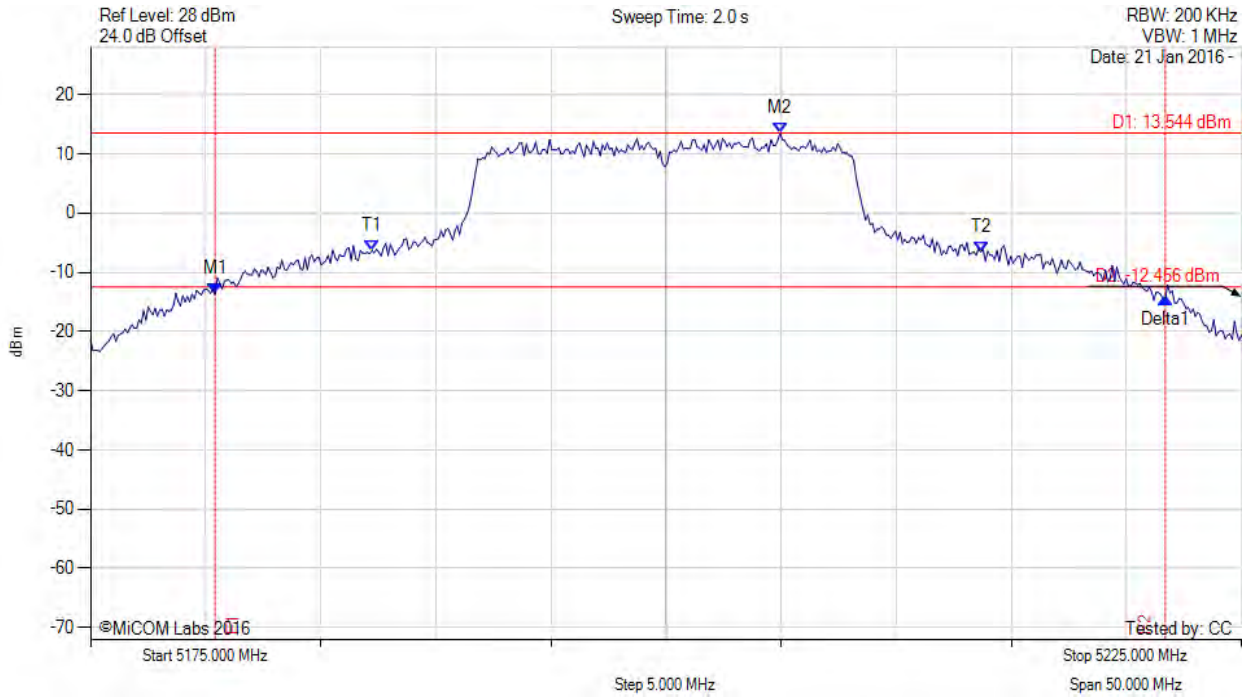
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5180.411 MHz : -13.665 dBm M2 : 5204.960 MHz : 13.544 dBm Delta1 : 41.283 MHz : -0.720 dB T1 : 5187.224 MHz : -6.364 dBm T2 : 5213.677 MHz : -6.570 dBm OBW : 26.453 MHz	Measured 26 dB Bandwidth: 41.283 MHz Measured 99% Bandwidth: 26.453 MHz

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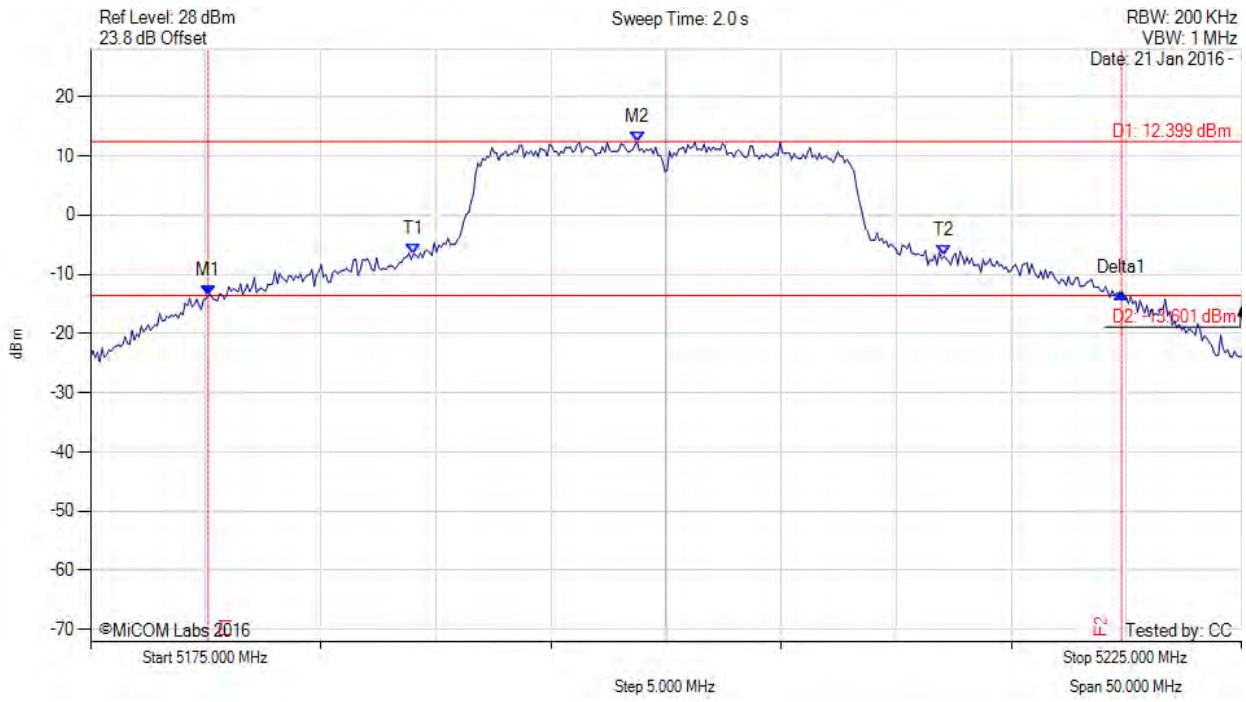
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5180.110 MHz : -13.610 dBm M2 : 5198.747 MHz : 12.399 dBm Delta1 : 39.679 MHz : 0.535 dB T1 : 5189.028 MHz : -6.620 dBm T2 : 5212.074 MHz : -6.913 dBm OBW : 23.046 MHz	Measured 26 dB Bandwidth: 39.679 MHz Measured 99% Bandwidth: 23.046 MHz

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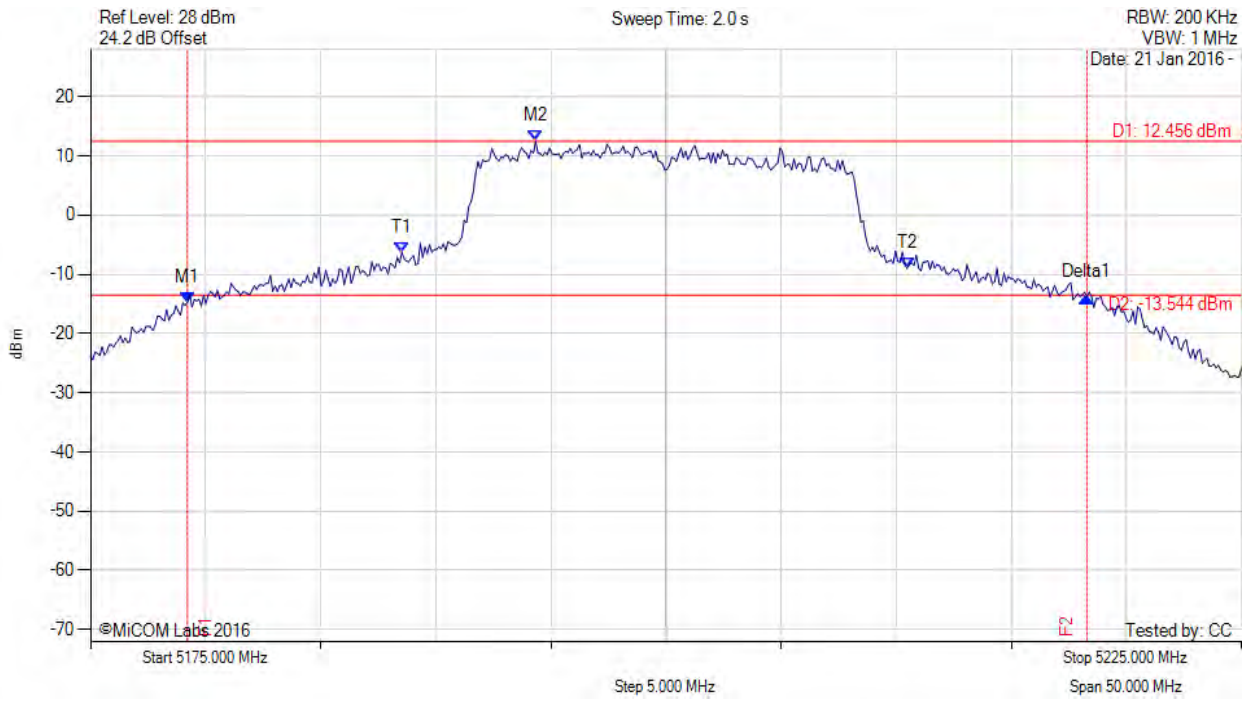
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5179.208 MHz : -14.698 dBm M2 : 5194.339 MHz : 12.456 dBm Delta1 : 39.078 MHz : 0.936 dB T1 : 5188.527 MHz : -6.338 dBm T2 : 5210.471 MHz : -8.990 dBm OBW : 21.944 MHz	Measured 26 dB Bandwidth: 39.078 MHz Measured 99% Bandwidth: 21.944 MHz

back to matrix

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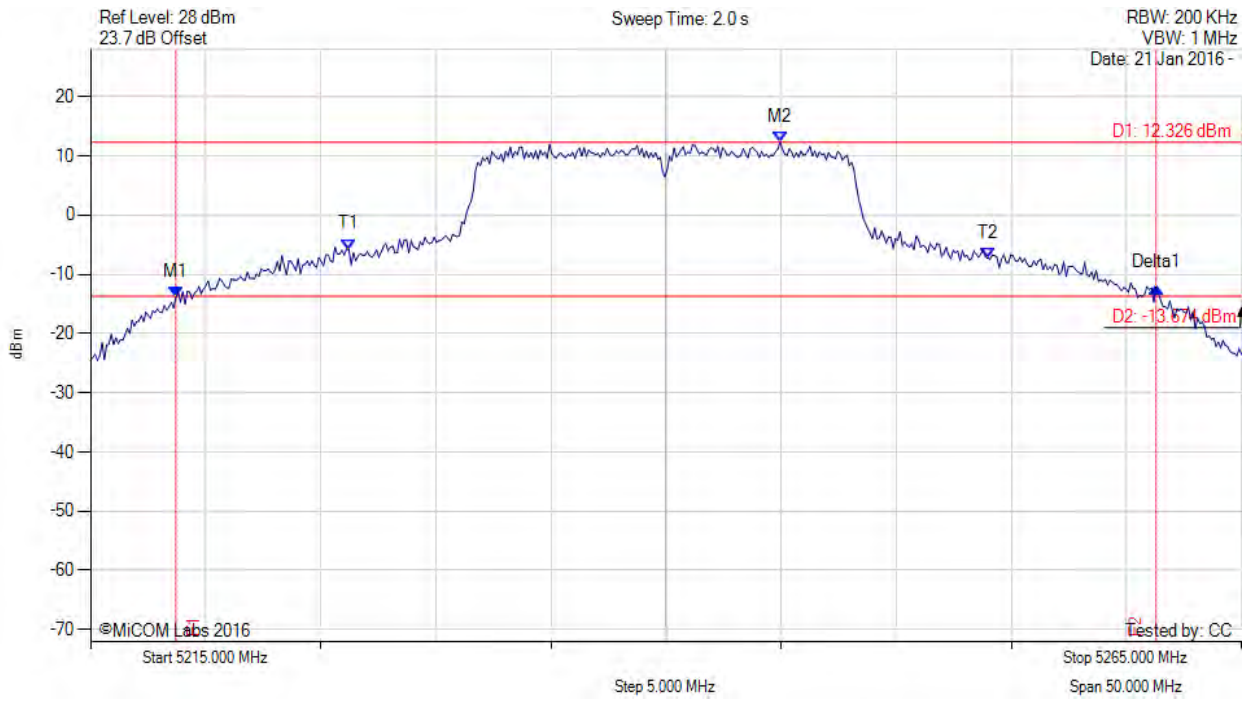
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5218.707 MHz : -13.950 dBm M2 : 5244.960 MHz : 12.326 dBm Delta1 : 42.585 MHz : 1.804 dB T1 : 5226.222 MHz : -5.805 dBm T2 : 5253.978 MHz : -7.257 dBm OBW : 27.756 MHz	Measured 26 dB Bandwidth: 42.585 MHz Measured 99% Bandwidth: 27.756 MHz

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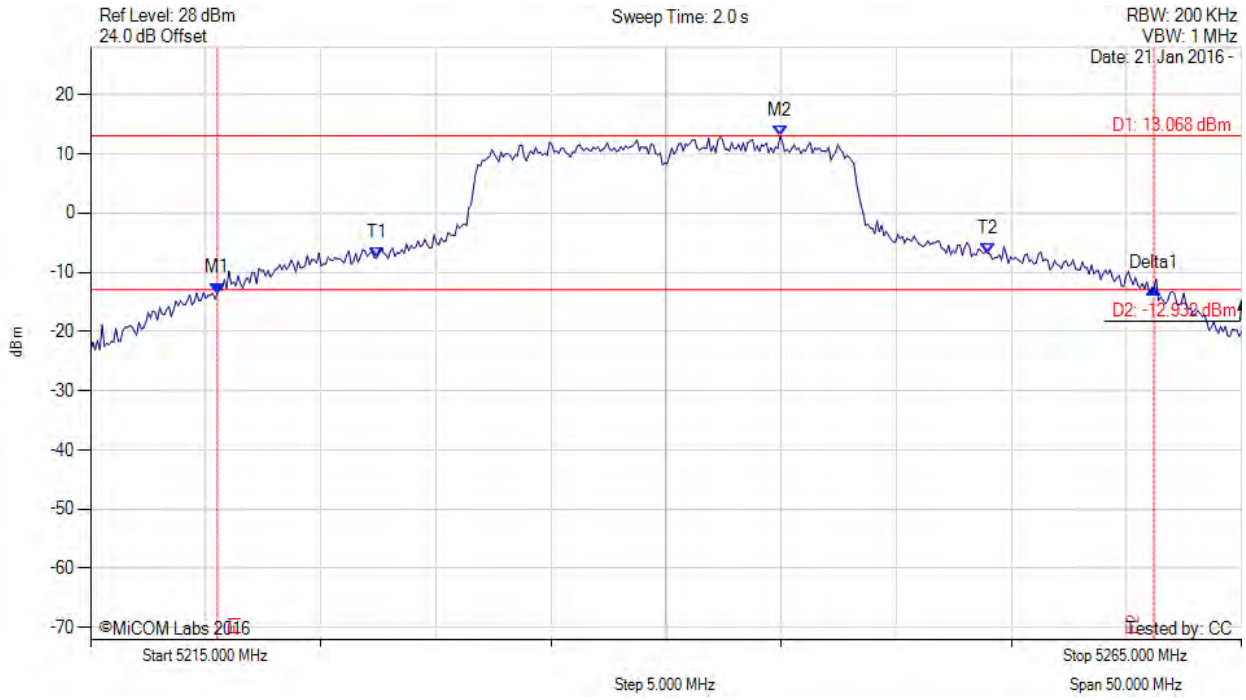
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5220.511 MHz : -13.507 dBm M2 : 5244.960 MHz : 13.068 dBm Delta1 : 40.681 MHz : 0.803 dB T1 : 5227.425 MHz : -7.586 dBm T2 : 5253.978 MHz : -6.763 dBm OBW : 26.553 MHz	Measured 26 dB Bandwidth: 40.681 MHz Measured 99% Bandwidth: 26.553 MHz

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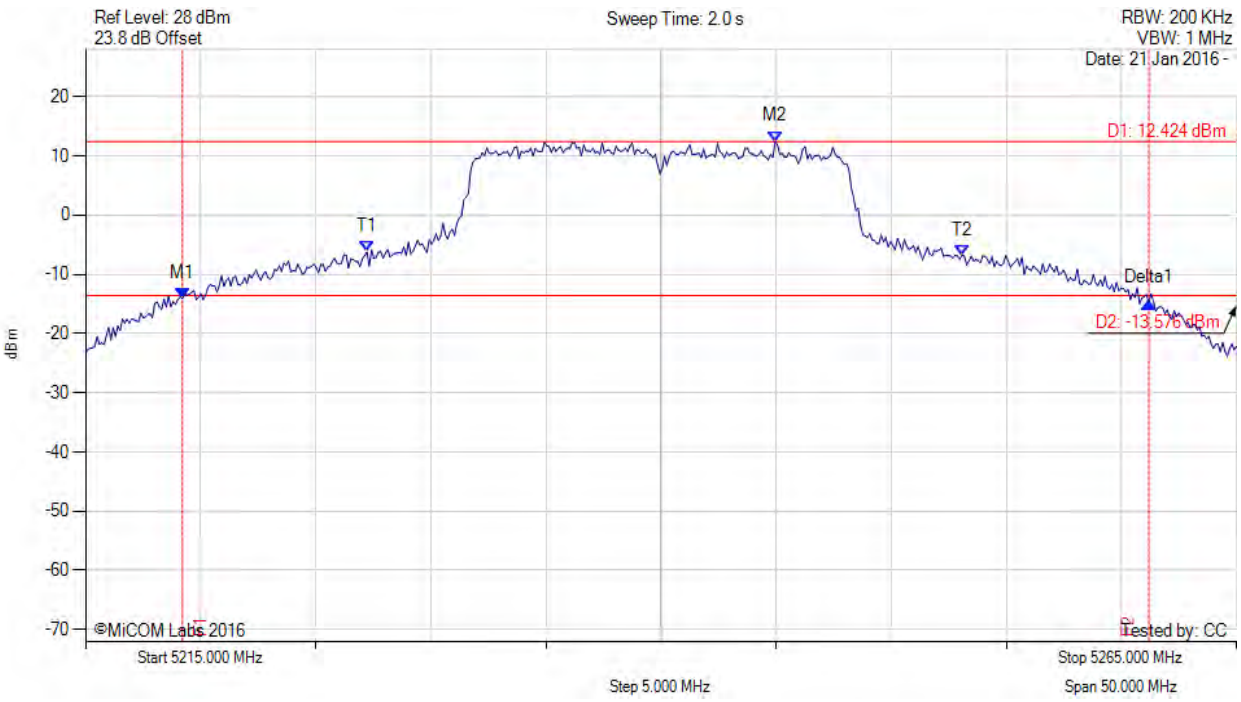
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5219.208 MHz : -14.070 dBm M2 : 5244.960 MHz : 12.424 dBm Delta1 : 41.984 MHz : -0.685 dB T1 : 5227.224 MHz : -6.244 dBm T2 : 5253.076 MHz : -6.757 dBm OBW : 25.852 MHz	Measured 26 dB Bandwidth: 41.984 MHz Measured 99% Bandwidth: 25.852 MHz

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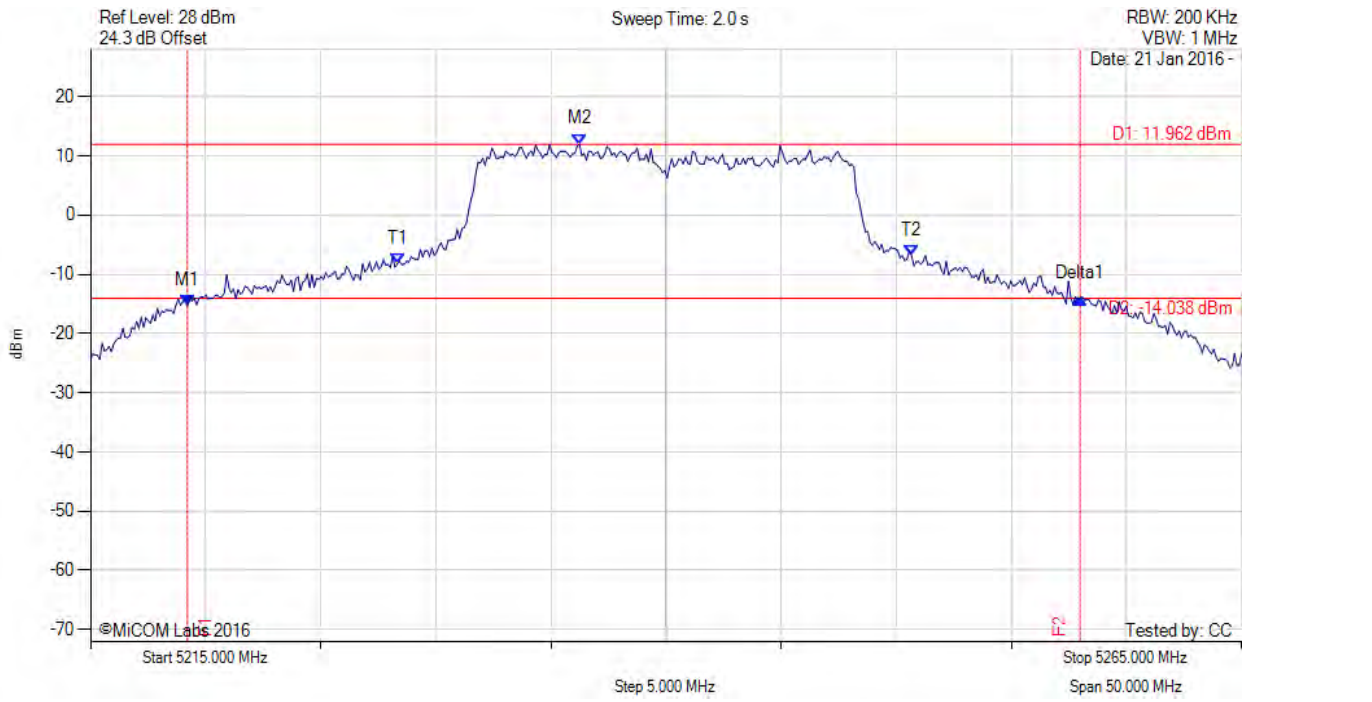
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5219.208 MHz : -15.313 dBm M2 : 5236.242 MHz : 11.962 dBm Delta1 : 38.778 MHz : 1.241 dB T1 : 5228.327 MHz : -8.201 dBm T2 : 5250.671 MHz : -6.932 dBm OBW : 22.345 MHz	Measured 26 dB Bandwidth: 38.778 MHz Measured 99% Bandwidth: 22.345 MHz

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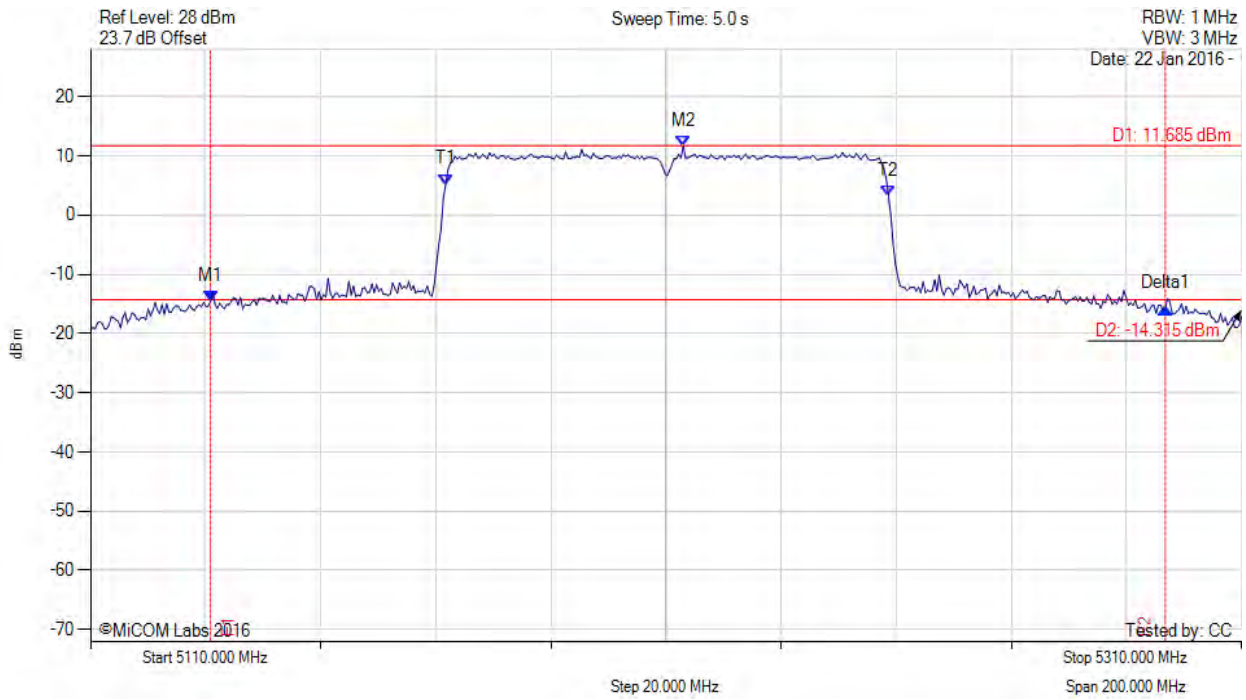
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5130.842 MHz : -14.556 dBm M2 : 5213.006 MHz : 11.685 dBm Delta1 : 165.932 MHz : -1.129 dB T1 : 5171.723 MHz : 5.196 dBm T2 : 5248.677 MHz : 3.131 dBm OBW : 76.954 MHz	Measured 26 dB Bandwidth: 165.932 MHz Measured 99% Bandwidth: 76.954 MHz

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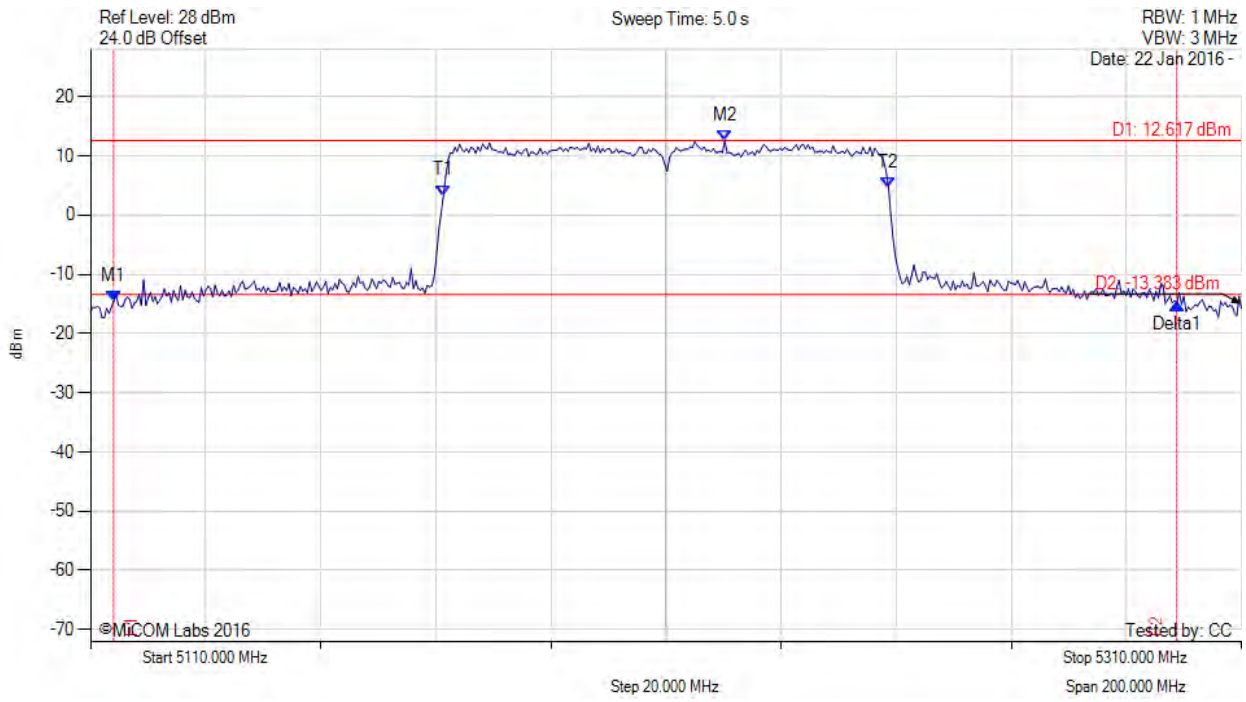
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5114.008 MHz : -14.517 dBm M2 : 5220.220 MHz : 12.617 dBm Delta1 : 184.770 MHz : -0.425 dB T1 : 5171.323 MHz : 3.329 dBm T2 : 5248.677 MHz : 4.553 dBm OBW : 77.355 MHz	Measured 26 dB Bandwidth: 184.770 MHz Measured 99% Bandwidth: 77.355 MHz

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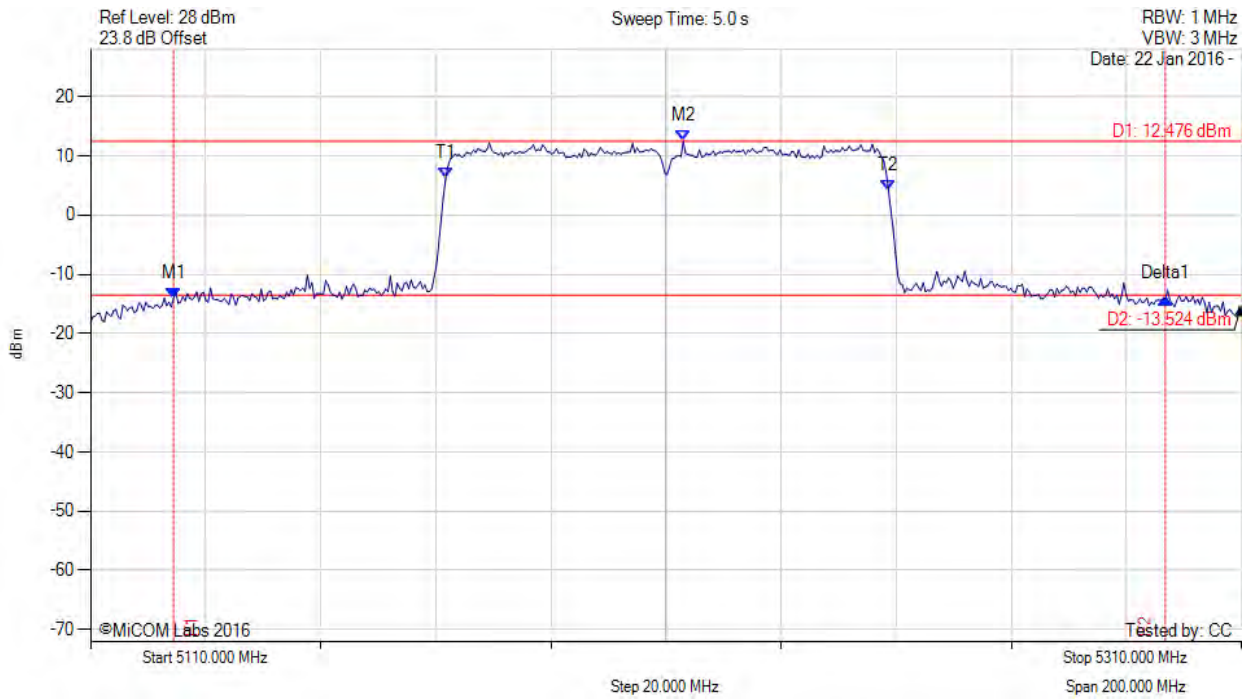
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5124.429 MHz : -13.995 dBm M2 : 5213.006 MHz : 12.476 dBm Delta1 : 172.345 MHz : -0.057 dB T1 : 5171.723 MHz : 6.158 dBm T2 : 5248.677 MHz : 4.075 dBm OBW : 76.954 MHz	Measured 26 dB Bandwidth: 172.345 MHz Measured 99% Bandwidth: 76.954 MHz

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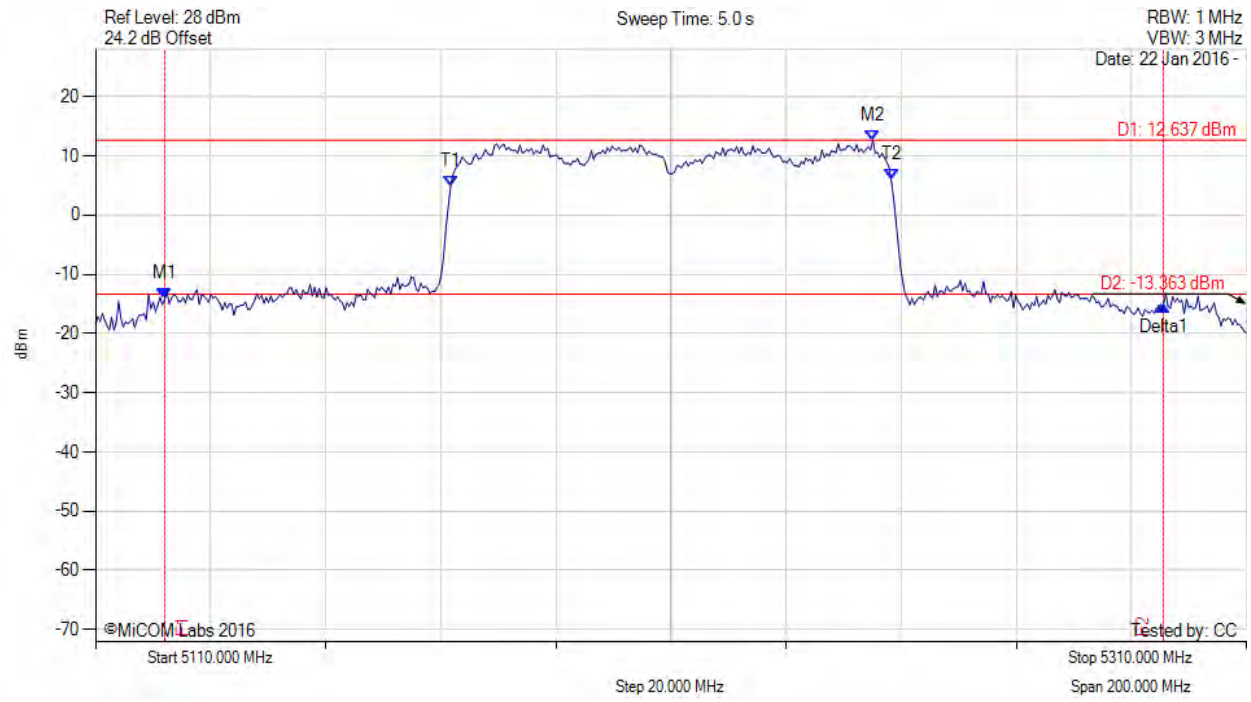
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5122.024 MHz : -14.099 dBm M2 : 5245.070 MHz : 12.637 dBm Delta1 : 173.547 MHz : -1.200 dB T1 : 5171.723 MHz : 4.889 dBm T2 : 5248.277 MHz : 5.922 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 173.547 MHz Measured 99% Bandwidth: 76.553 MHz

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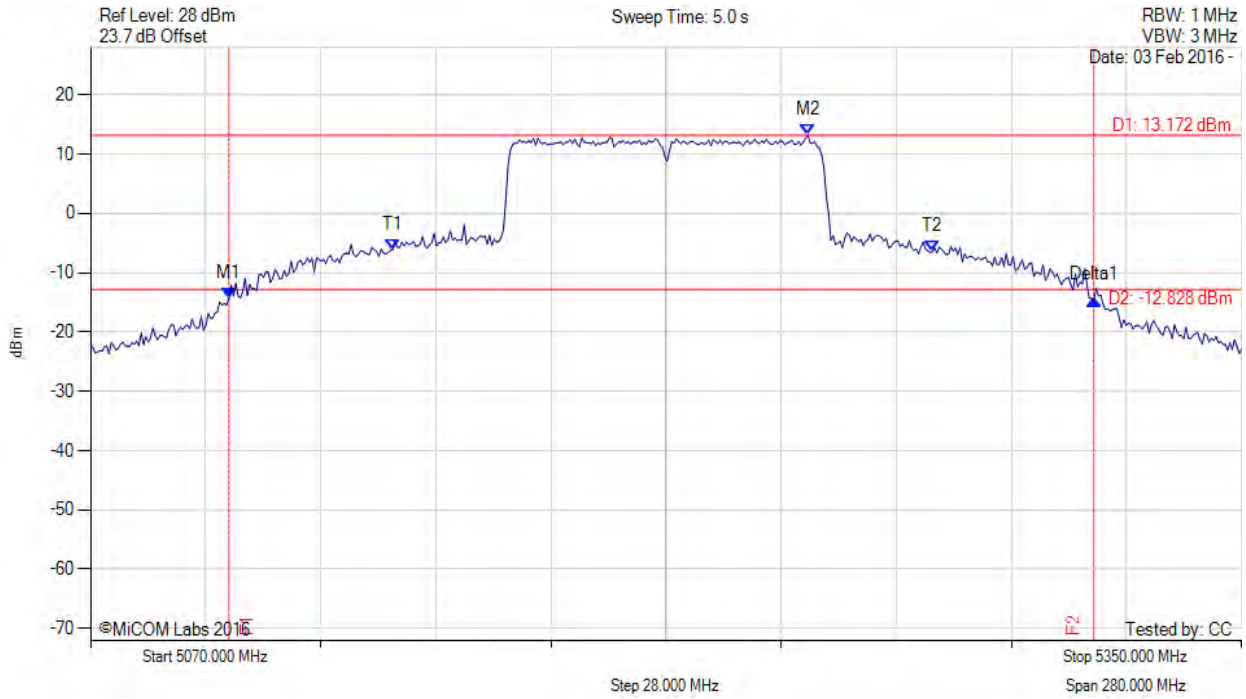
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5103.667 MHz : -14.257 dBm M2 : 5244.509 MHz : 13.172 dBm Delta1 : 210.421 MHz : -0.338 dB T1 : 5143.507 MHz : -6.096 dBm T2 : 5274.810 MHz : -6.431 dBm OBW : 131.303 MHz	Measured 26 dB Bandwidth: 210.421 MHz Measured 99% Bandwidth: 131.303 MHz

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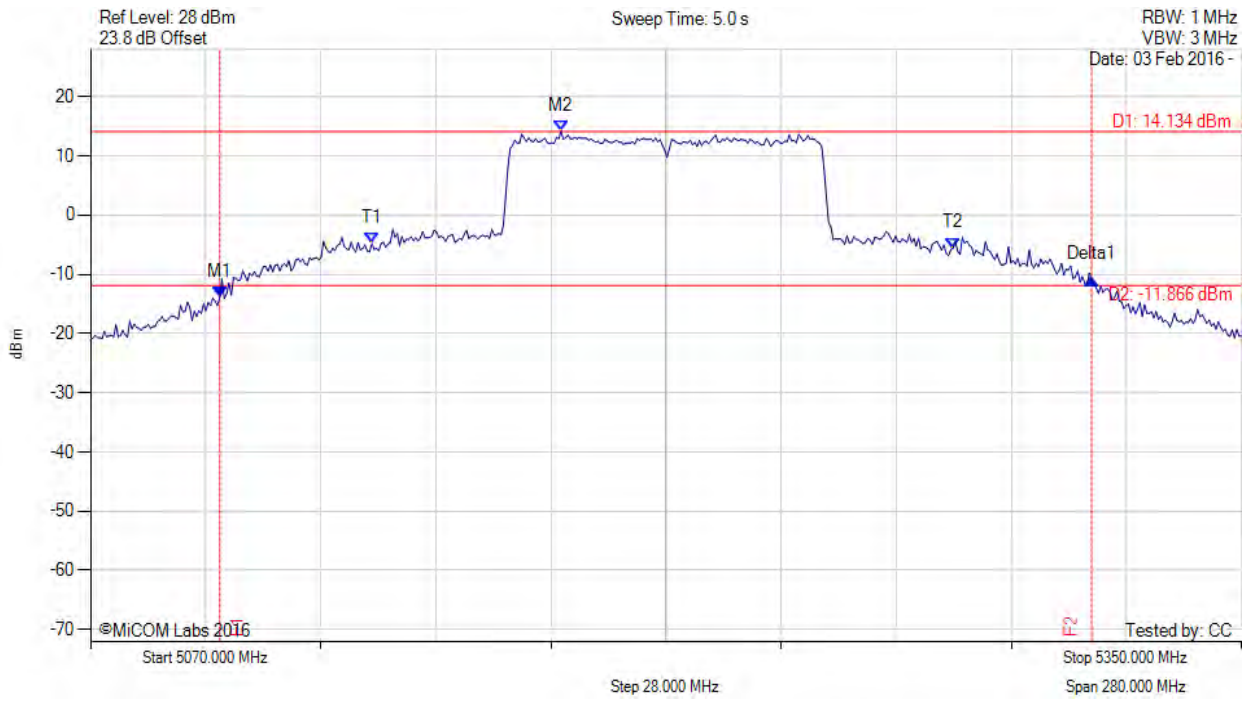
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5101.423 MHz : -13.909 dBm M2 : 5184.469 MHz : 14.134 dBm Delta1 : 212.104 MHz : 3.073 dB T1 : 5138.457 MHz : -4.790 dBm T2 : 5279.860 MHz : -5.577 dBm OBW : 141.403 MHz	Measured 26 dB Bandwidth: 212.104 MHz Measured 99% Bandwidth: 141.403 MHz

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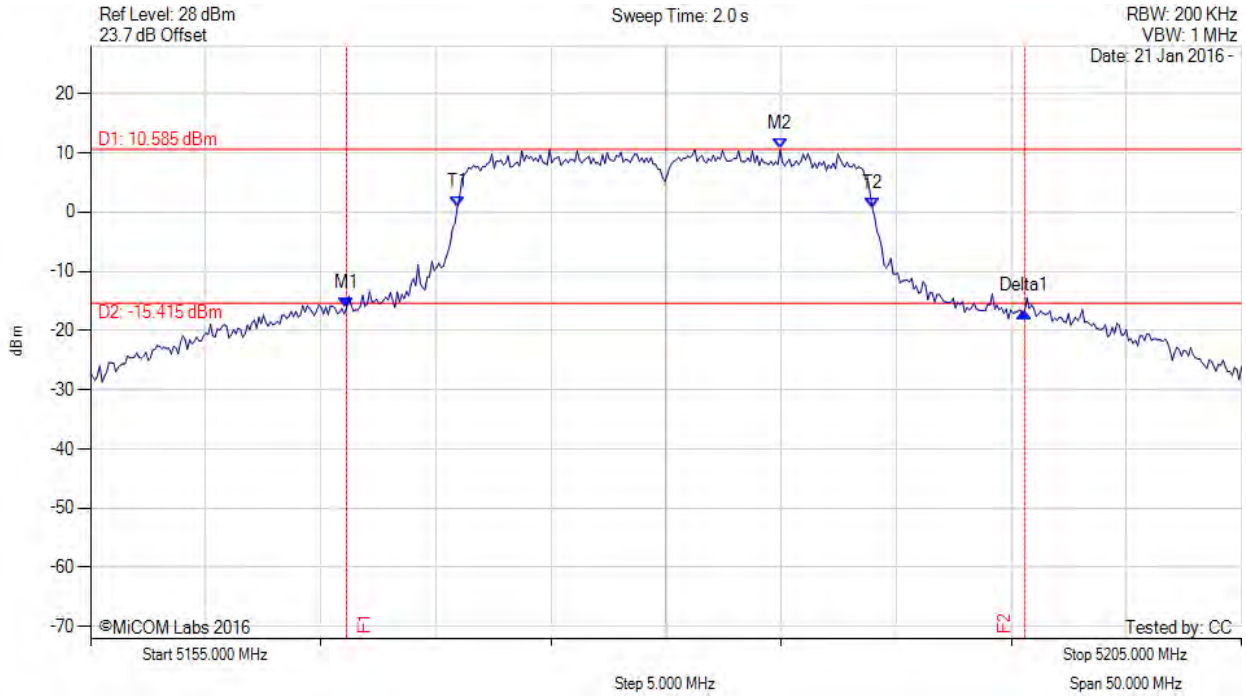
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5166.122 MHz : -16.134 dBm M2 : 5184.960 MHz : 10.585 dBm Delta1 : 29.459 MHz : -0.649 dB T1 : 5170.932 MHz : 0.803 dBm T2 : 5188.968 MHz : 0.599 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 29.459 MHz Measured 99% Bandwidth: 18.036 MHz

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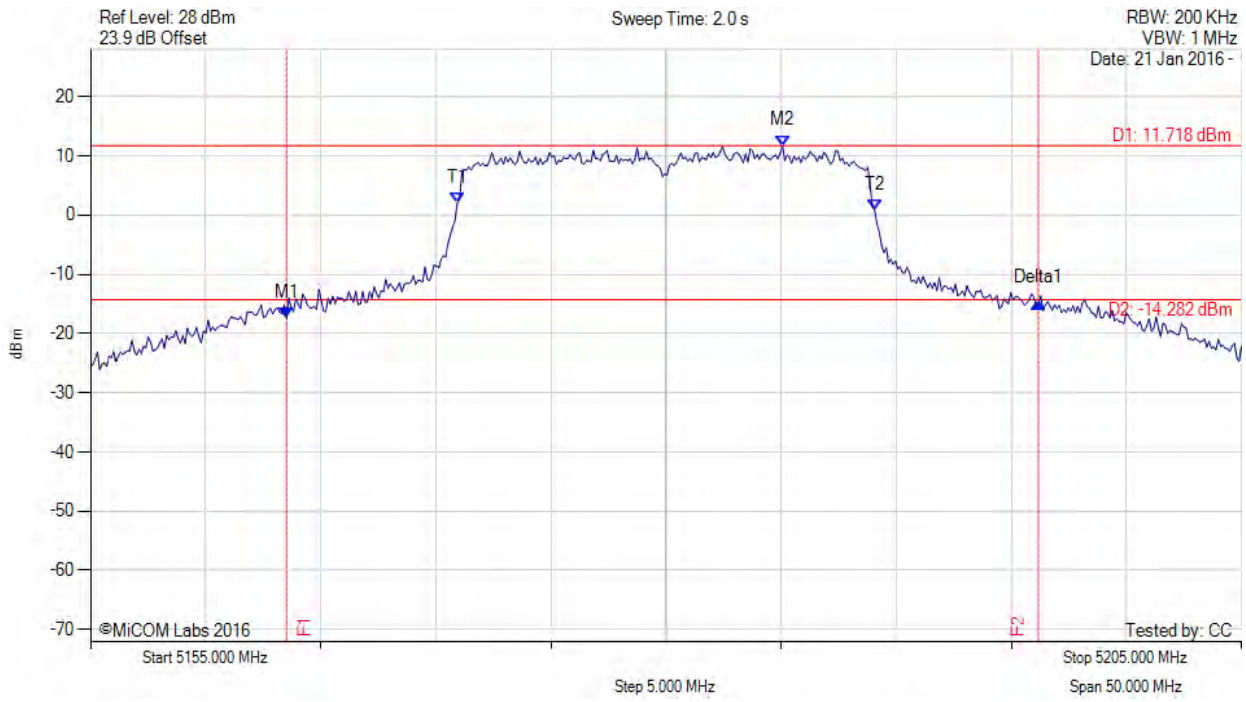
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5163.517 MHz : -17.401 dBm M2 : 5185.060 MHz : 11.718 dBm Delta1 : 32.665 MHz : 2.518 dB T1 : 5170.932 MHz : 1.982 dBm T2 : 5189.068 MHz : 0.825 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 32.665 MHz Measured 99% Bandwidth: 18.136 MHz

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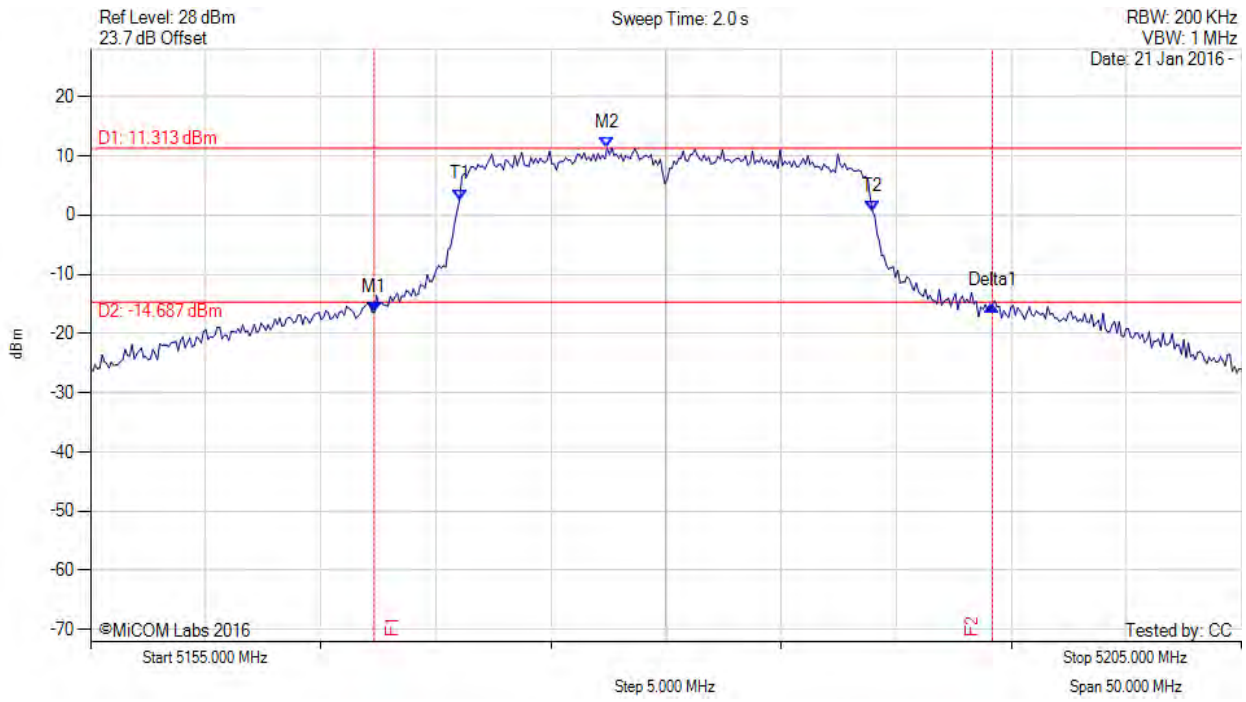
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5167.325 MHz : -16.354 dBm M2 : 5177.445 MHz : 11.313 dBm Delta1 : 26.854 MHz : 1.023 dB T1 : 5171.032 MHz : 2.609 dBm T2 : 5188.968 MHz : 0.648 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 26.854 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

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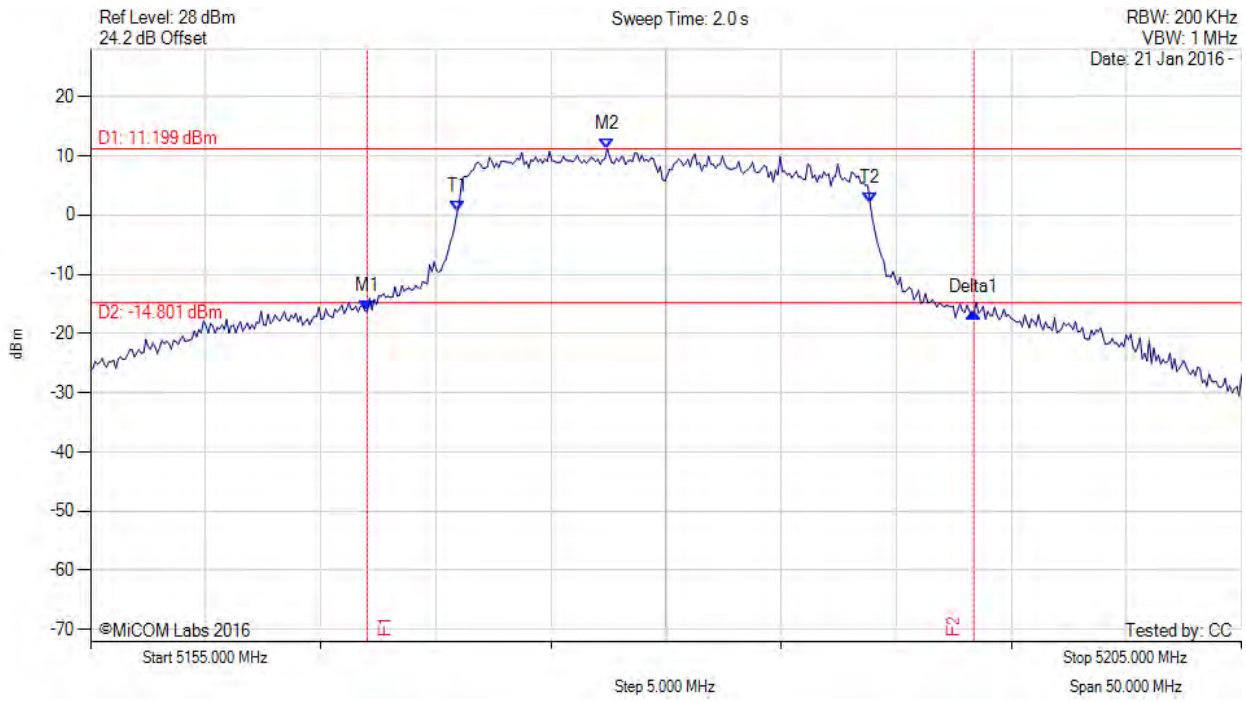
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5167.024 MHz : -16.220 dBm M2 : 5177.445 MHz : 11.199 dBm Delta1 : 26.353 MHz : -0.313 dB T1 : 5170.932 MHz : 0.603 dBm T2 : 5188.868 MHz : 1.999 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 26.353 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

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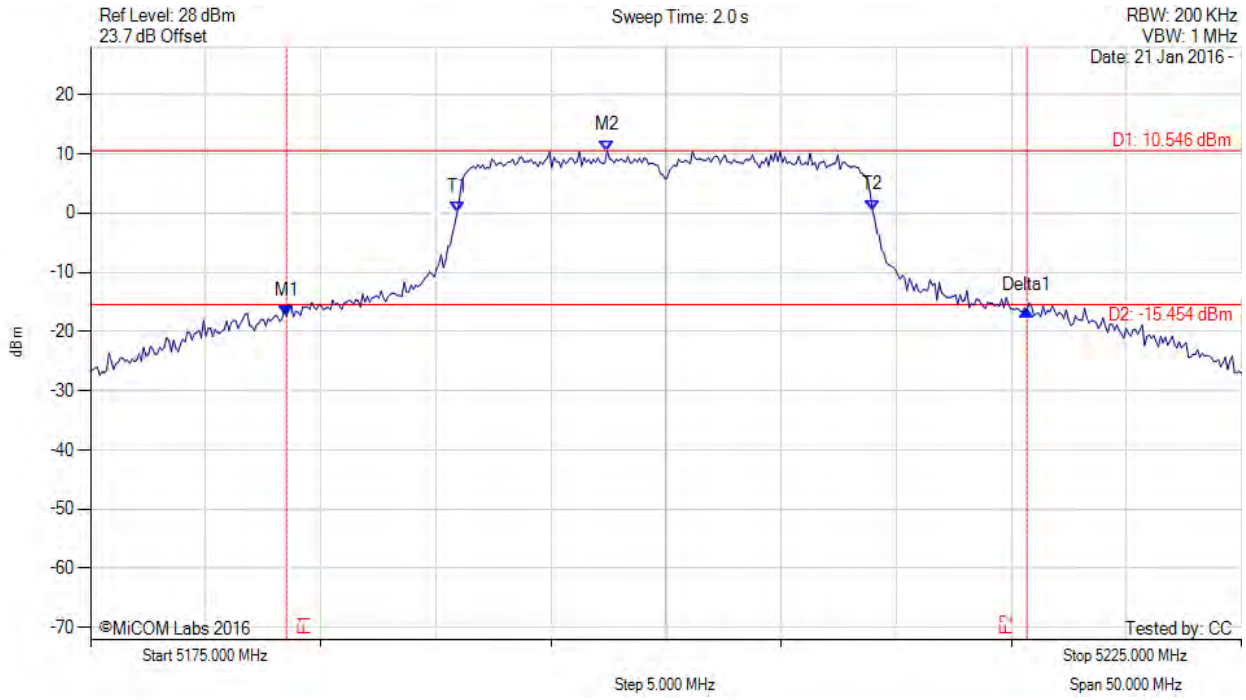
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5183.517 MHz : -17.373 dBm M2 : 5197.445 MHz : 10.546 dBm Delta1 : 32.164 MHz : 0.960 dB T1 : 5190.932 MHz : 0.201 dBm T2 : 5208.968 MHz : 0.520 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 32.164 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

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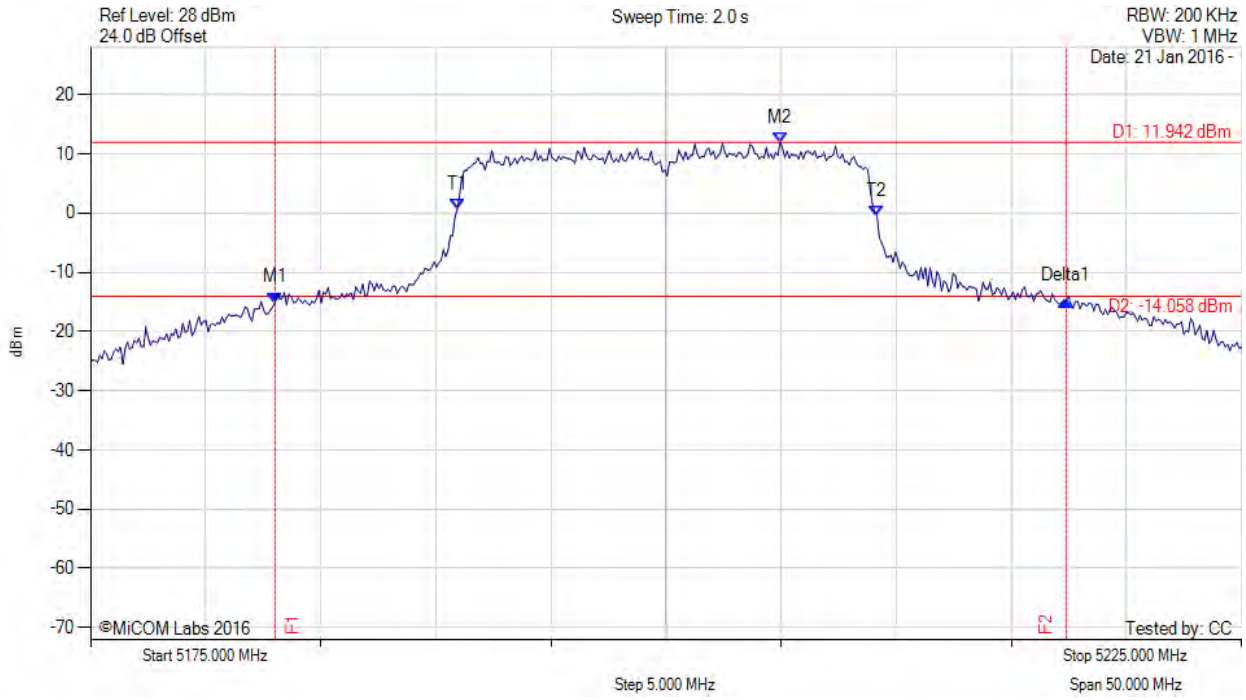
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5183.016 MHz : -15.136 dBm M2 : 5204.960 MHz : 11.942 dBm Delta1 : 34.369 MHz : 0.380 dB T1 : 5190.932 MHz : 0.616 dBm T2 : 5209.168 MHz : -0.487 dBm OBW : 18.236 MHz	Measured 26 dB Bandwidth: 34.369 MHz Measured 99% Bandwidth: 18.236 MHz

back to matrix

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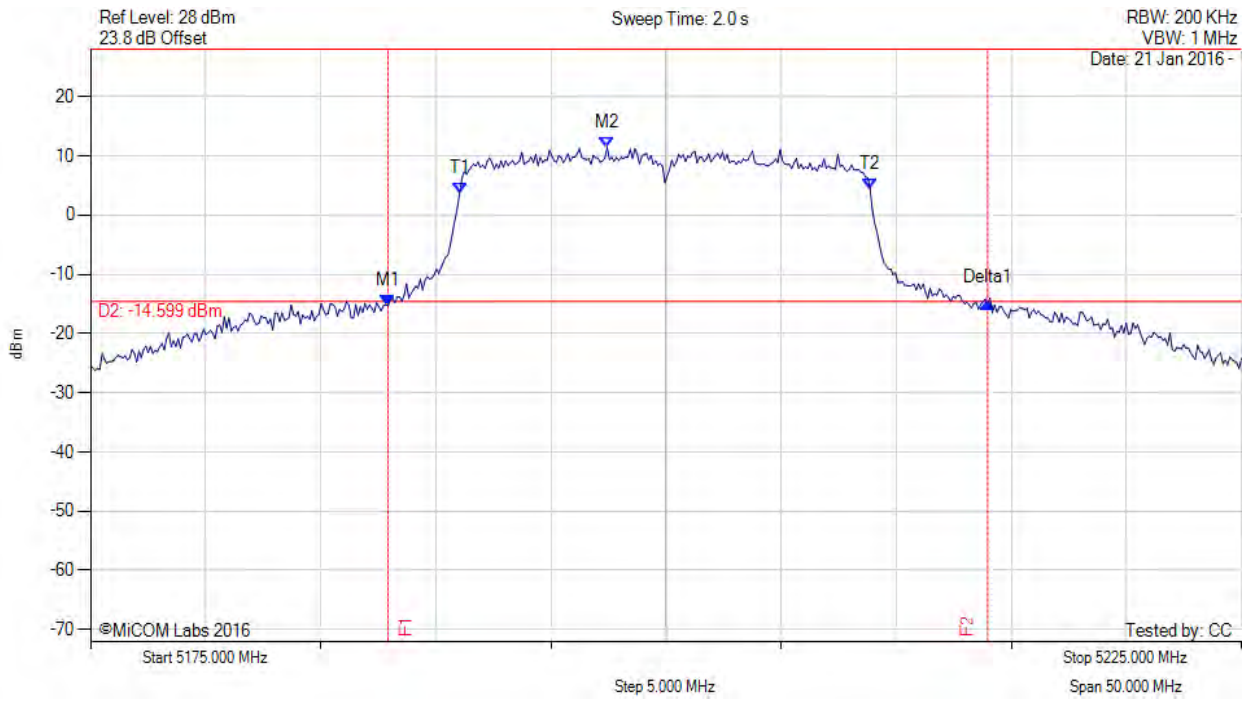
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 55 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 : -15.254 dBm M2 : 5197.445 MHz : 11.401 dBm Delta1 : 26.052 MHz : 0.466 dB T1 : 5191.032 MHz : 3.695 dBm T2 : 5208.868 MHz : 4.396 dBm OBW : 17.836 MHz	Measured 26 dB Bandwidth: 26.052 MHz Measured 99% Bandwidth: 17.836 MHz

back to matrix

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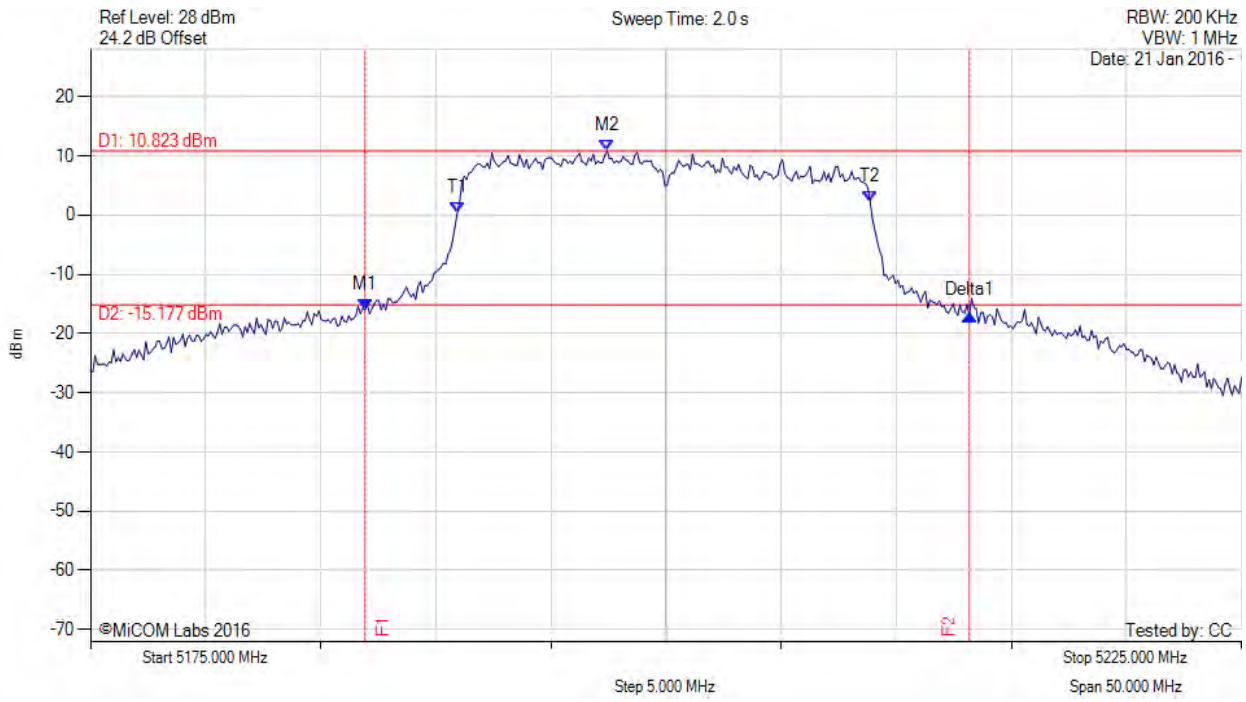
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5186.924 MHz : -15.974 dBm M2 : 5197.445 MHz : 10.823 dBm Delta1 : 26.253 MHz : -1.009 dB T1 : 5190.932 MHz : 0.323 dBm T2 : 5208.868 MHz : 2.316 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 26.253 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

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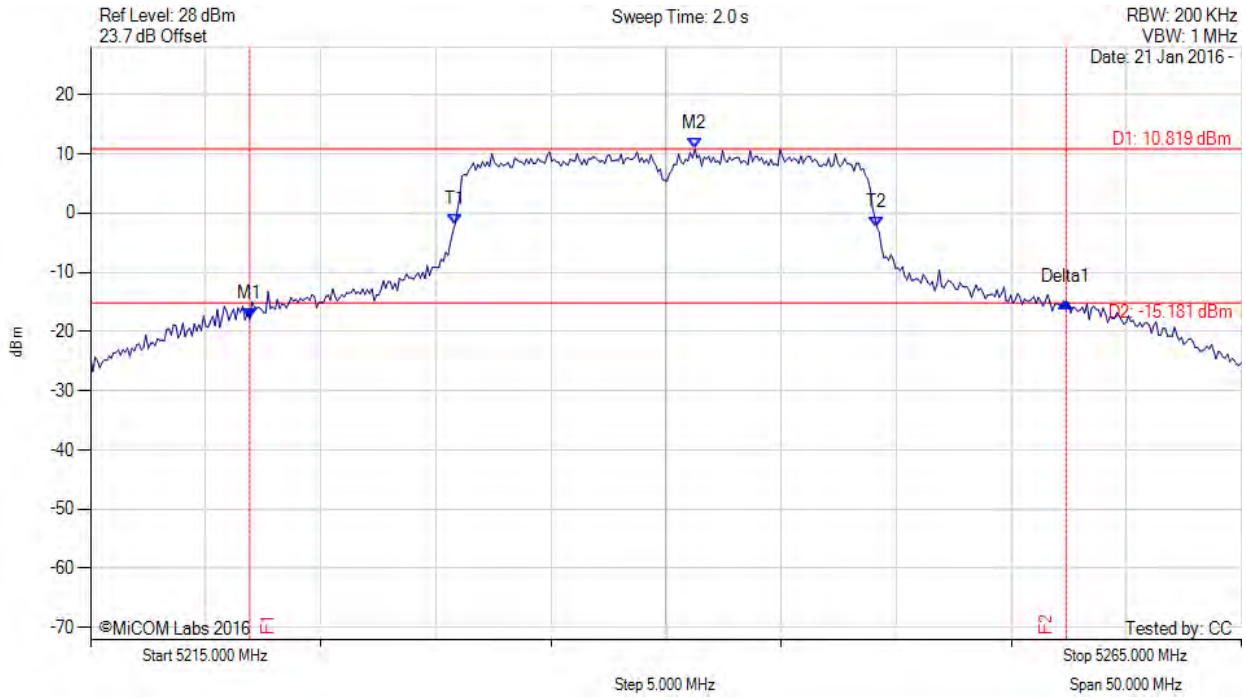
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5221.914 MHz : -17.936 dBm M2 : 5241.253 MHz : 10.819 dBm Delta1 : 35.471 MHz : 2.829 dB T1 : 5230.832 MHz : -1.920 dBm T2 : 5249.168 MHz : -2.443 dBm OBW : 18.337 MHz	Measured 26 dB Bandwidth: 35.471 MHz Measured 99% Bandwidth: 18.337 MHz

back to matrix

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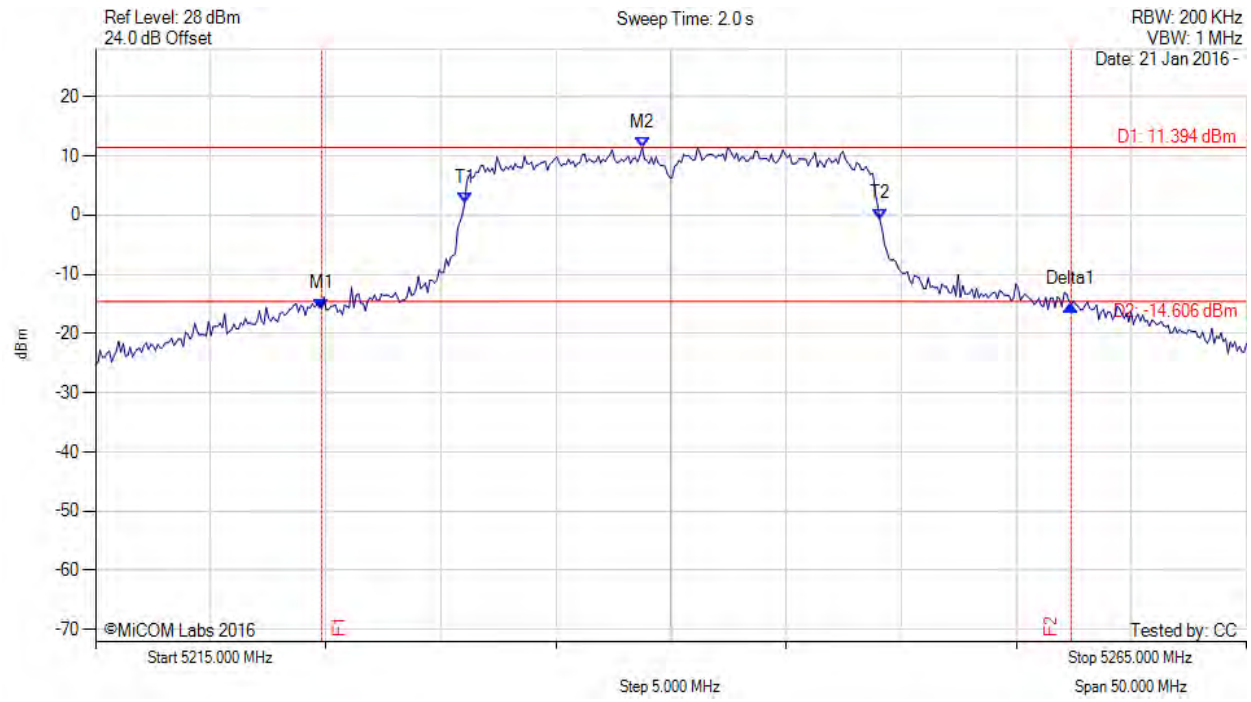
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5224.820 MHz : -15.839 dBm M2 : 5238.747 MHz : 11.394 dBm Delta1 : 32.565 MHz : 0.685 dB T1 : 5231.032 MHz : 2.015 dBm T2 : 5249.068 MHz : -0.660 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 32.565 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

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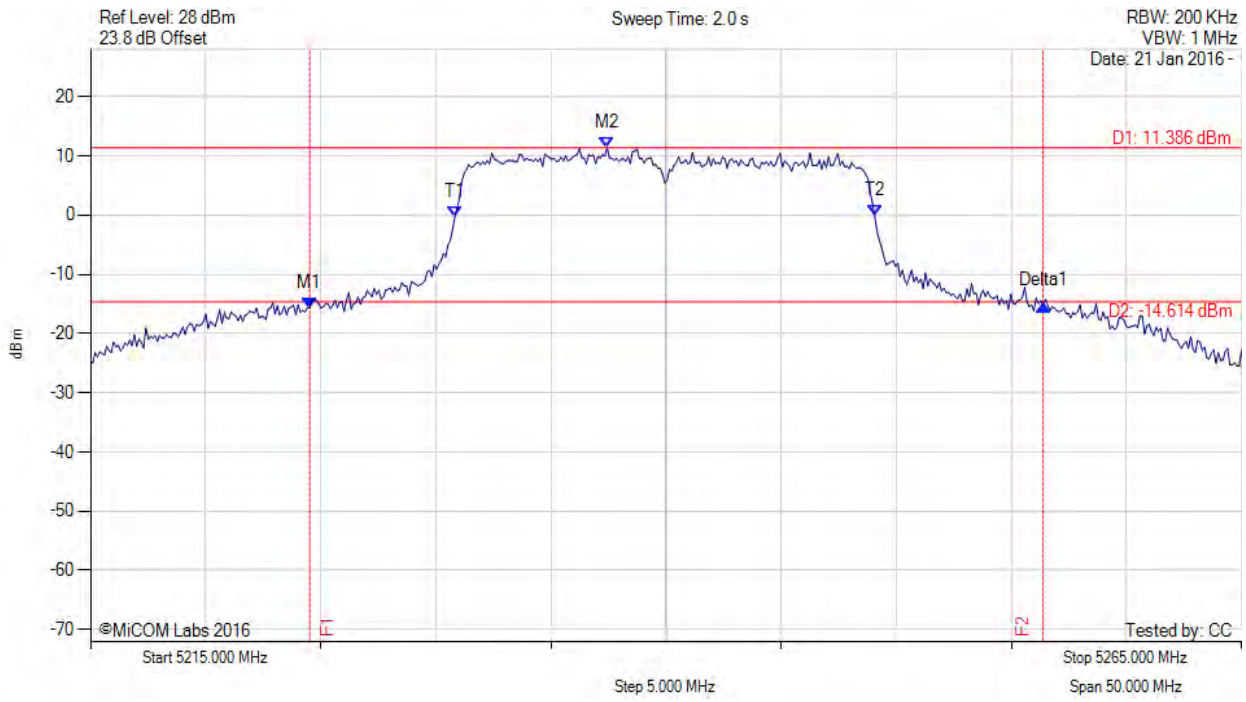
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5224.519 MHz : -15.709 dBm M2 : 5237.445 MHz : 11.386 dBm Delta1 : 31.864 MHz : 0.358 dB T1 : 5230.832 MHz : -0.251 dBm T2 : 5249.068 MHz : -0.092 dBm OBW : 18.236 MHz	Measured 26 dB Bandwidth: 31.864 MHz Measured 99% Bandwidth: 18.236 MHz

back to matrix

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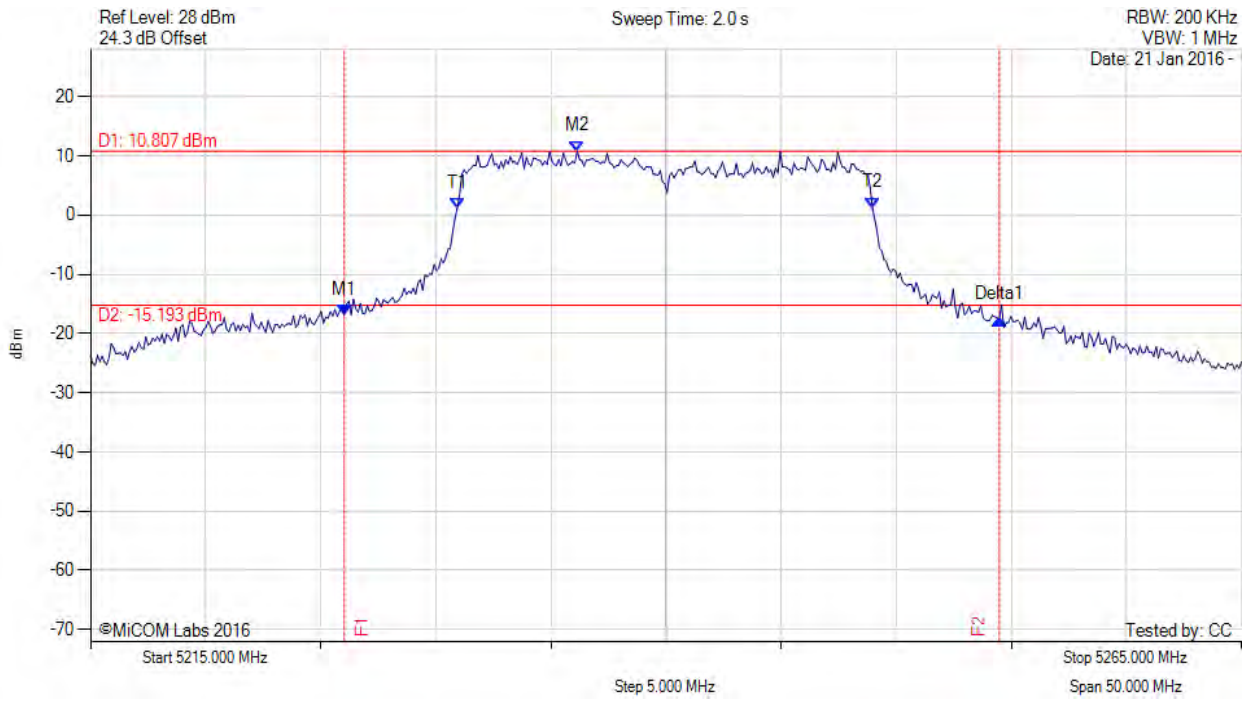
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5226.022 MHz : -16.803 dBm M2 : 5236.142 MHz : 10.807 dBm Delta1 : 28.457 MHz : -0.832 dB T1 : 5230.932 MHz : 1.175 dBm T2 : 5248.968 MHz : 1.207 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 28.457 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

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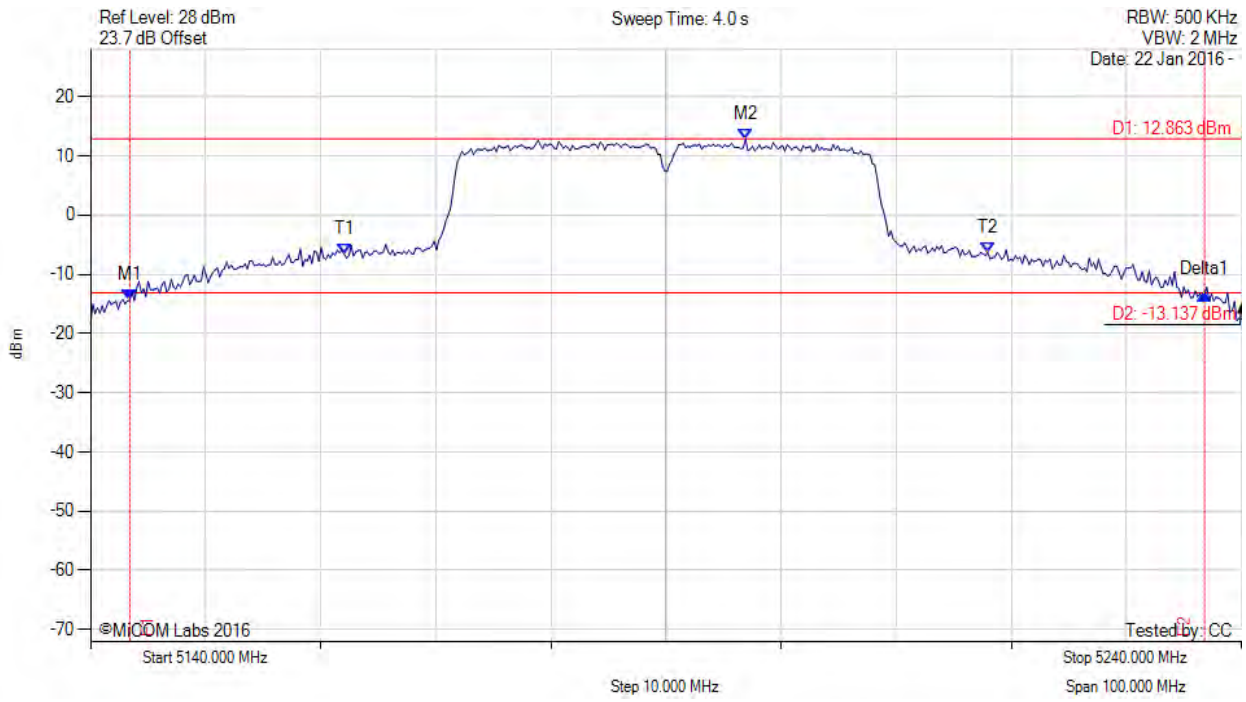
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5143.407 MHz : -14.345 dBm M2 : 5196.914 MHz : 12.863 dBm Delta1 : 93.387 MHz : 0.986 dB T1 : 5162.044 MHz : -6.610 dBm T2 : 5217.956 MHz : -6.352 dBm OBW : 55.912 MHz	Measured 26 dB Bandwidth: 93.387 MHz Measured 99% Bandwidth: 55.912 MHz

back to matrix

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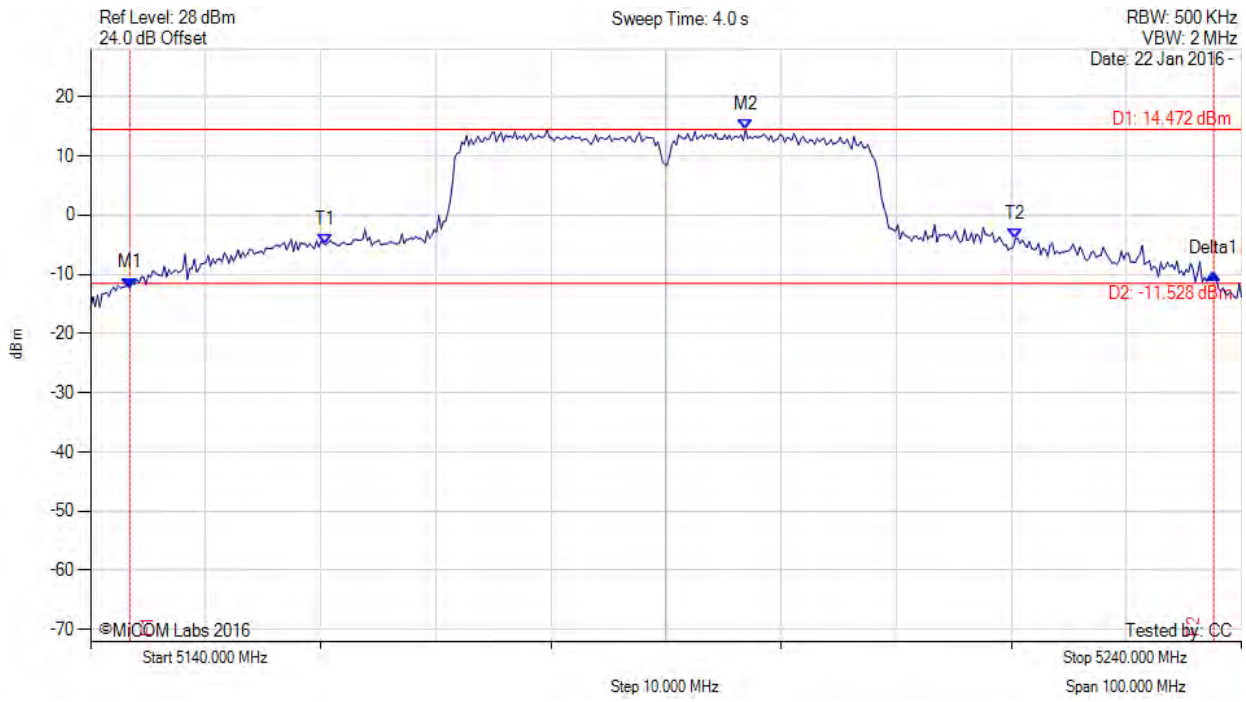
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5143.407 MHz : -12.331 dBm M2 : 5196.914 MHz : 14.472 dBm Delta1 : 94.188 MHz : 2.499 dB T1 : 5160.441 MHz : -5.022 dBm T2 : 5220.361 MHz : -3.964 dBm OBW : 59.920 MHz	Measured 26 dB Bandwidth: 94.188 MHz Measured 99% Bandwidth: 59.920 MHz

back to matrix

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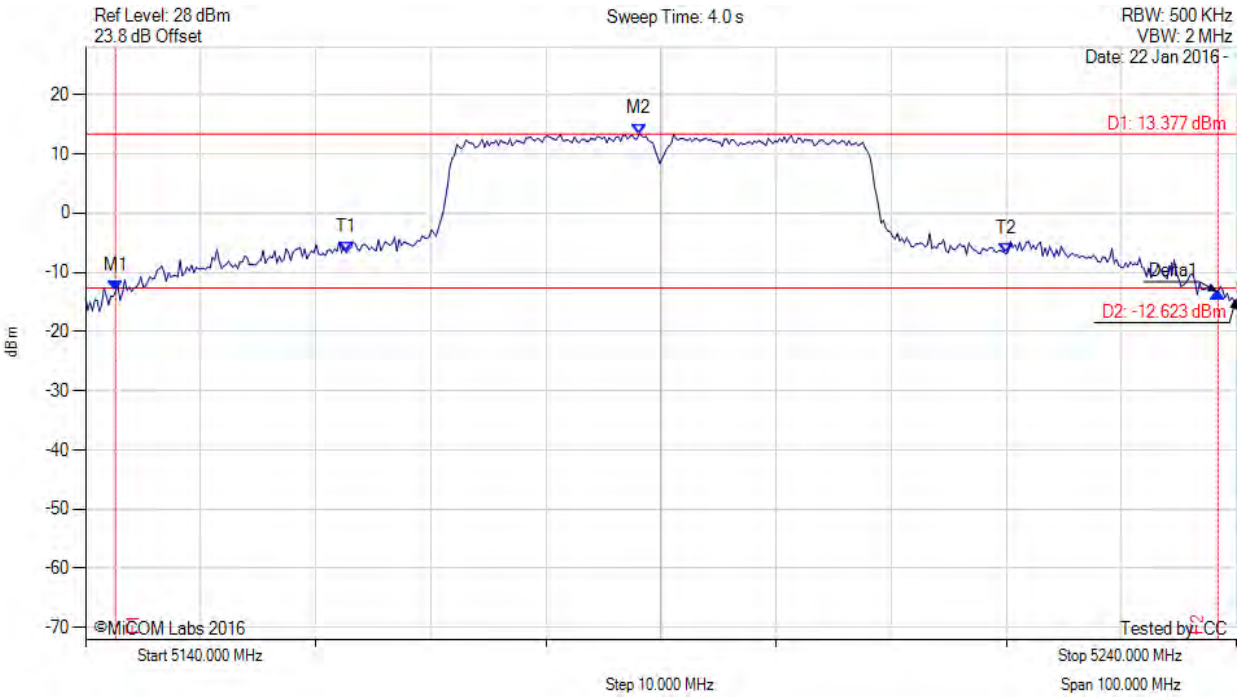
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5142.605 MHz : -13.248 dBm M2 : 5188.096 MHz : 13.377 dBm Delta1 : 95.792 MHz : -0.079 dB T1 : 5162.645 MHz : -6.684 dBm T2 : 5219.960 MHz : -6.903 dBm OBW : 57.315 MHz	Measured 26 dB Bandwidth: 95.792 MHz Measured 99% Bandwidth: 57.315 MHz

back to matrix

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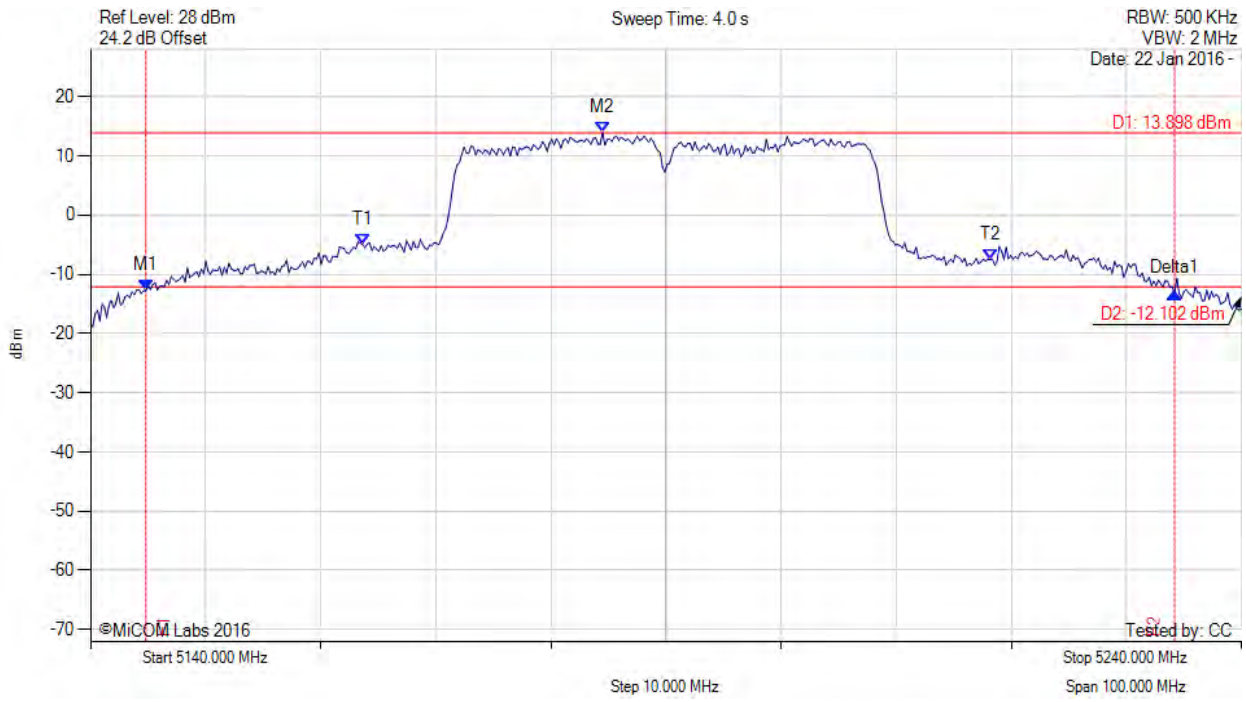
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5144.810 MHz : -12.718 dBm M2 : 5184.489 MHz : 13.898 dBm Delta1 : 89.379 MHz : -0.454 dB T1 : 5163.647 MHz : -5.002 dBm T2 : 5218.156 MHz : -7.521 dBm OBW : 54.509 MHz	Measured 26 dB Bandwidth: 89.379 MHz Measured 99% Bandwidth: 54.509 MHz

back to matrix

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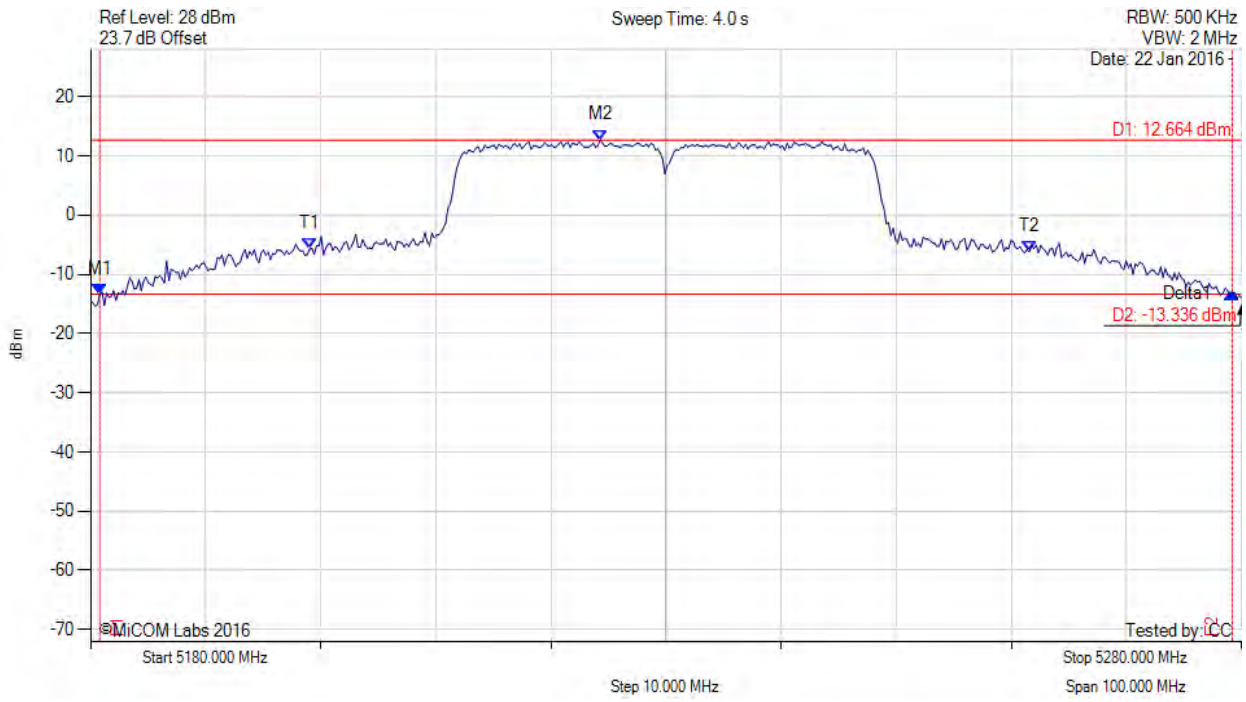
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5180.802 MHz : -13.389 dBm M2 : 5224.289 MHz : 12.664 dBm Delta1 : 98.397 MHz : 0.234 dB T1 : 5199.038 MHz : -5.734 dBm T2 : 5261.563 MHz : -6.161 dBm OBW : 62.525 MHz	Measured 26 dB Bandwidth: 98.397 MHz Measured 99% Bandwidth: 62.525 MHz

back to matrix

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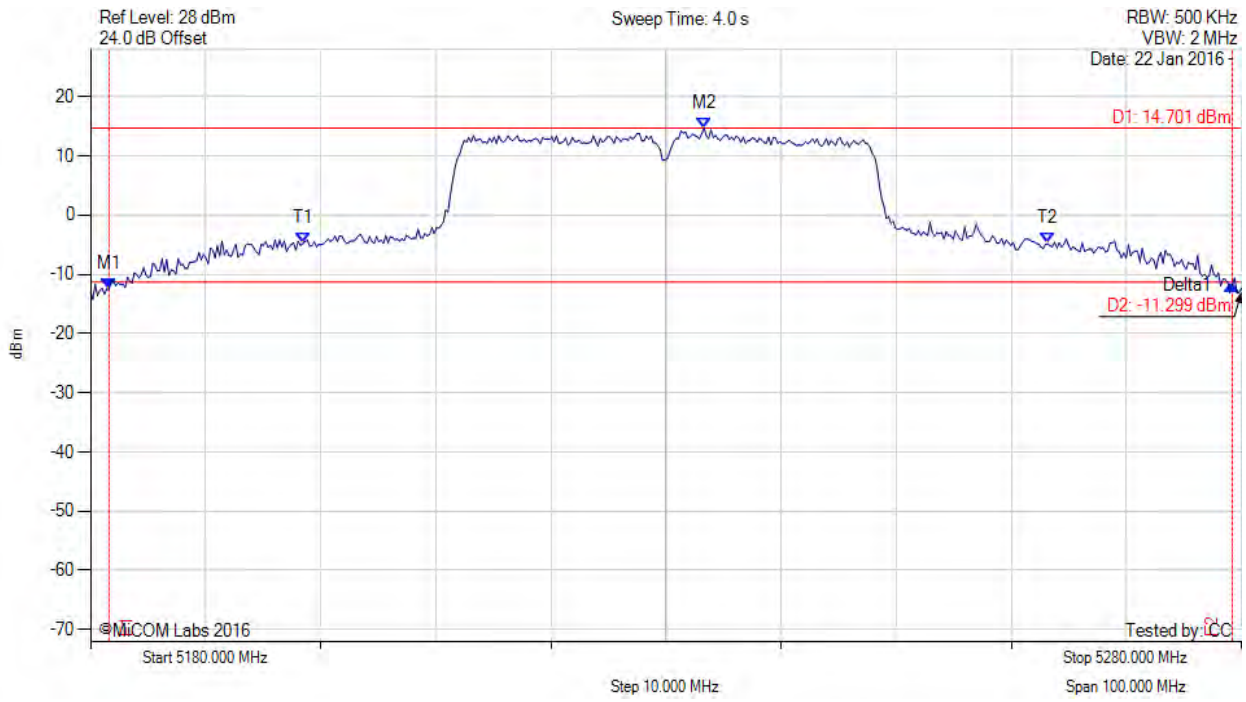
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5181.603 MHz : -12.524 dBm M2 : 5233.307 MHz : 14.701 dBm Delta1 : 97.595 MHz : 0.679 dB T1 : 5198.437 MHz : -4.782 dBm T2 : 5263.166 MHz : -4.825 dBm OBW : 64.729 MHz	Measured 26 dB Bandwidth: 97.595 MHz Measured 99% Bandwidth: 64.729 MHz

back to matrix

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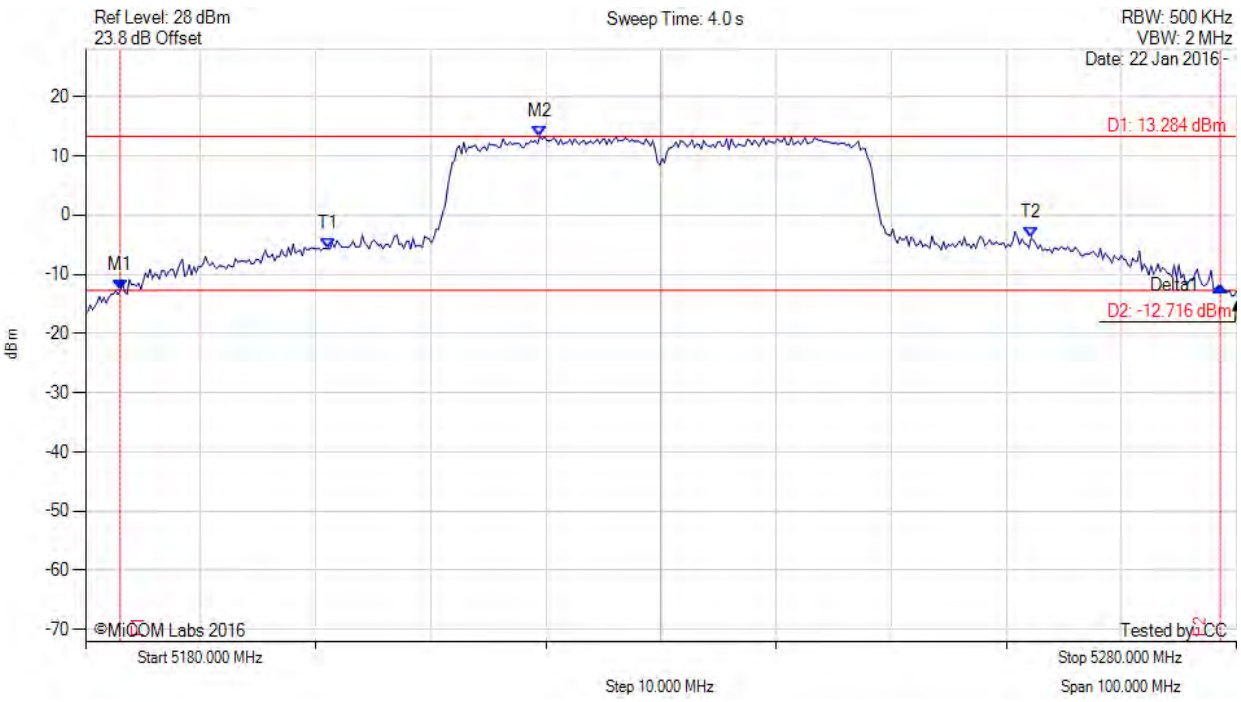
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5183.006 MHz : -12.764 dBm M2 : 5219.479 MHz : 13.284 dBm Delta1 : 95.591 MHz : 0.858 dB T1 : 5201.042 MHz : -5.693 dBm T2 : 5262.164 MHz : -3.857 dBm OBW : 61.122 MHz	Measured 26 dB Bandwidth: 95.591 MHz Measured 99% Bandwidth: 61.122 MHz

back to matrix

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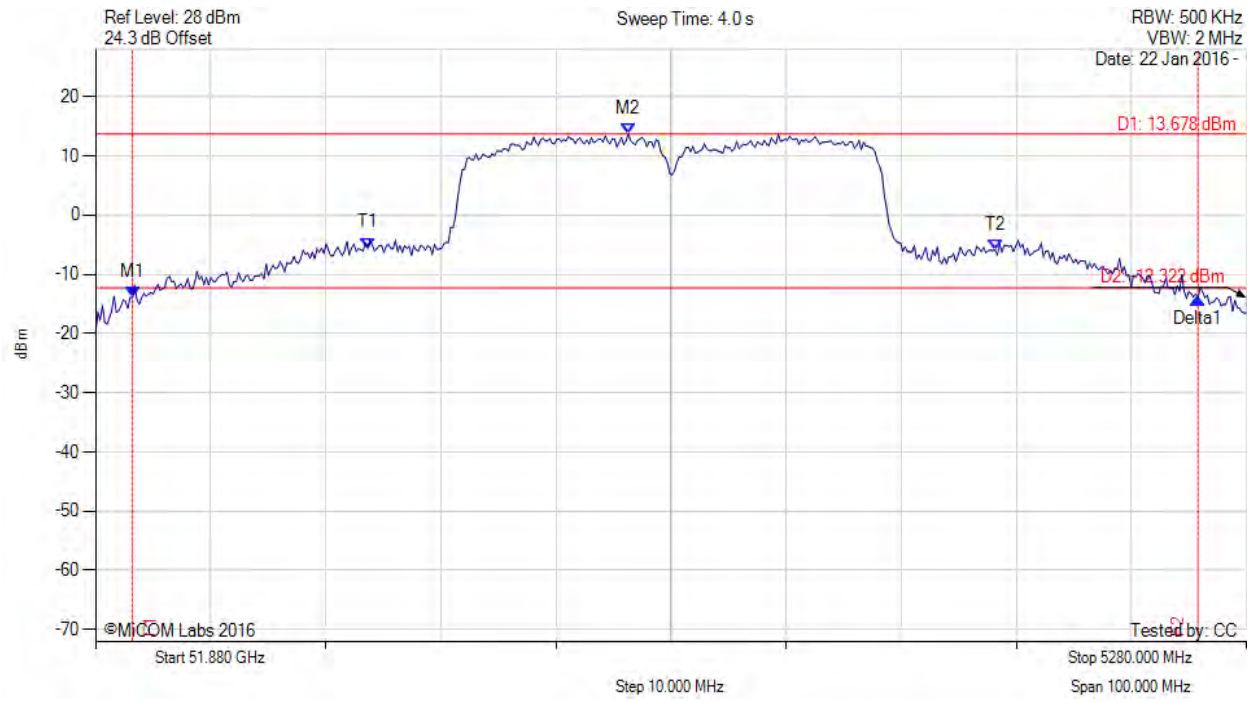
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5183.206 MHz : -13.916 dBm M2 : 5226.293 MHz : 13.678 dBm Delta1 : 92.585 MHz : -0.100 dB T1 : 5203.647 MHz : -5.573 dBm T2 : 5258.156 MHz : -5.878 dBm OBW : 54.509 MHz	Measured 26 dB Bandwidth: 92.585 MHz Measured 99% Bandwidth: 54.509 MHz

back to matrix

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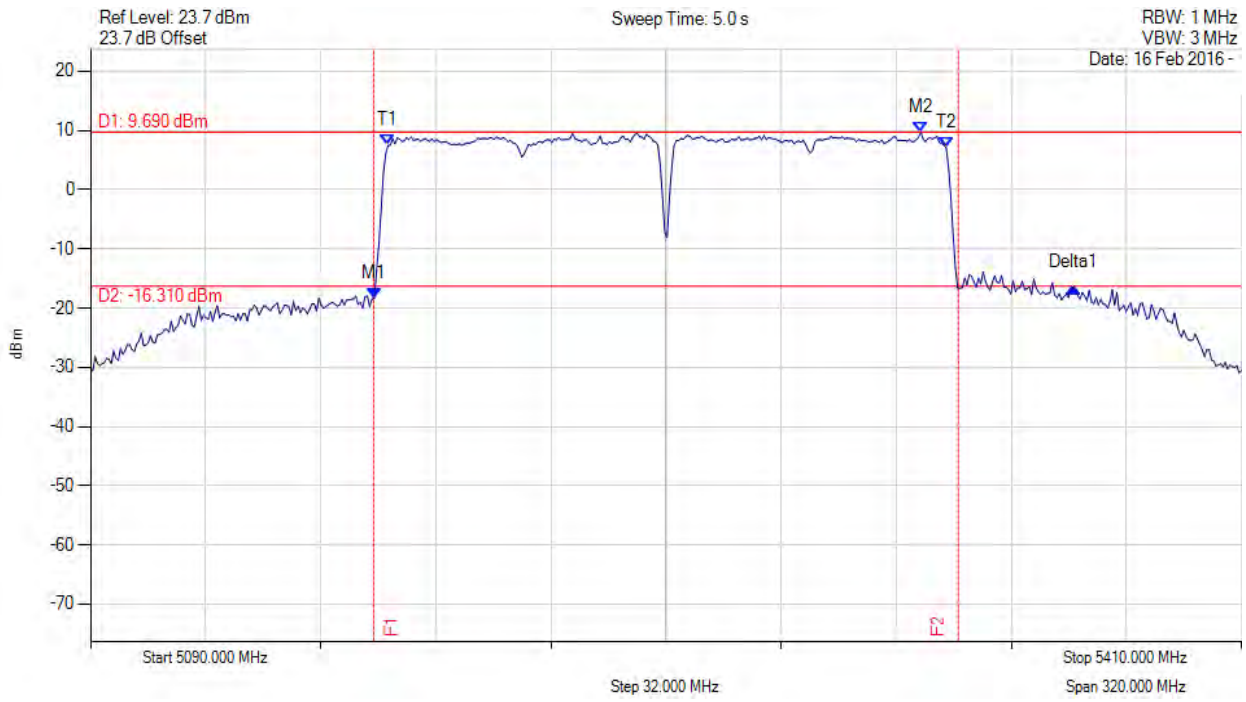
26 dB & 99% BANDWIDTH

Variant: 802.11ac-160, Channel: 5250.00 MHz, a+b, Temp: ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5168.878 MHz : -18.405 dBm M2 : 5320.862 MHz : 9.692 dBm Delta1 : 194.309 MHz : 1.877 dB T1 : 5172.725 MHz : 7.456 dBm T2 : 5327.916 MHz : 7.035 dBm OBW : 155.190 MHz	Channel Frequency: 5250.00 MHz

back to matrix

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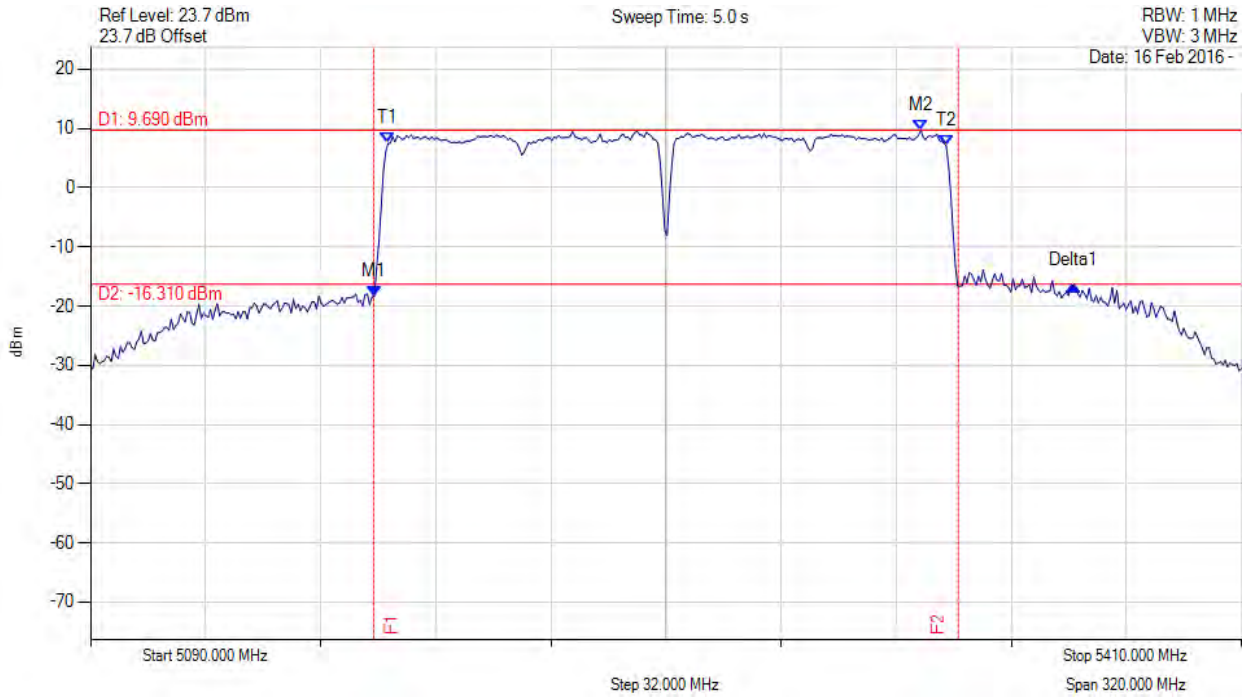
26 dB & 99% BANDWIDTH

Variant: 802.11ac-160, Channel: 5250.00 MHz, c+d, Temp: ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5168.878 MHz : -18.405 dBm M2 : 5320.862 MHz : 9.692 dBm Delta1 : 194.309 MHz : 1.877 dB T1 : 5172.725 MHz : 7.456 dBm T2 : 5327.916 MHz : 7.035 dBm OBW : 155.190 MHz	Channel Frequency: 5250.00 MHz

back to matrix

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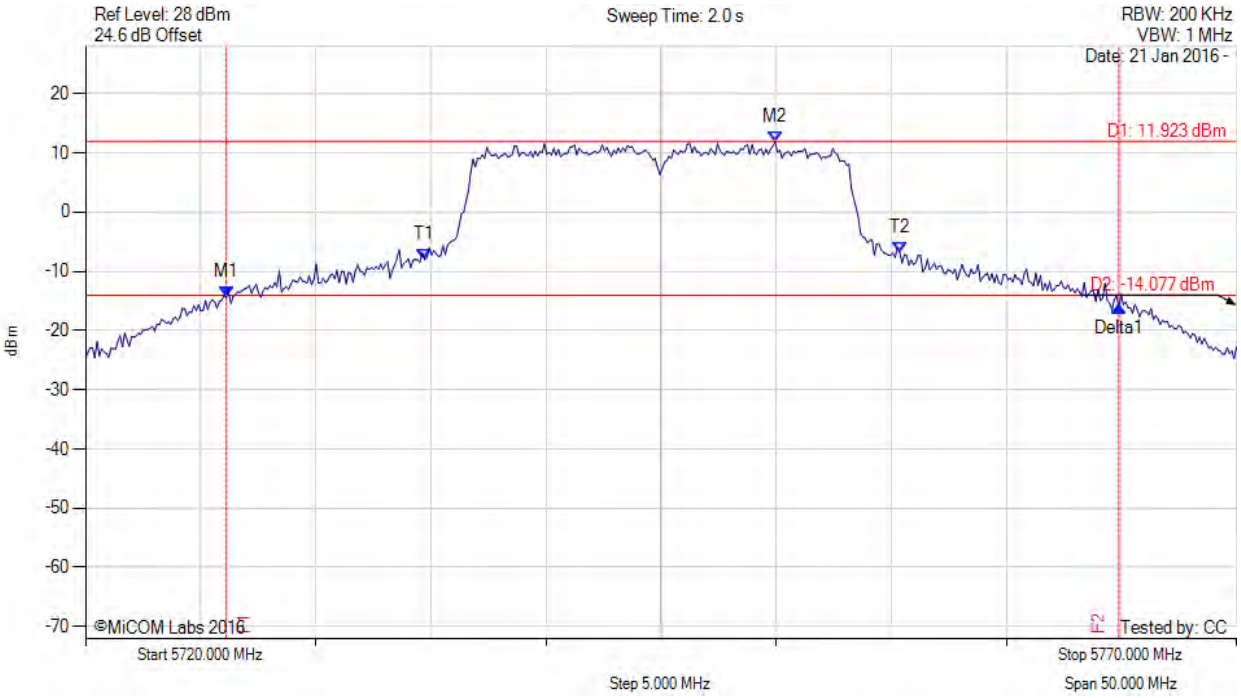
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5726.112 MHz : -14.334 dBm M2 : 5749.960 MHz : 11.923 dBm Delta1 : 38.778 MHz : -1.684 dB T1 : 5734.729 MHz : -7.997 dBm T2 : 5755.371 MHz : -6.773 dBm OBW : 20.641 MHz	Measured 26 dB Bandwidth: 38.778 MHz Measured 99% Bandwidth: 20.641 MHz

back to matrix

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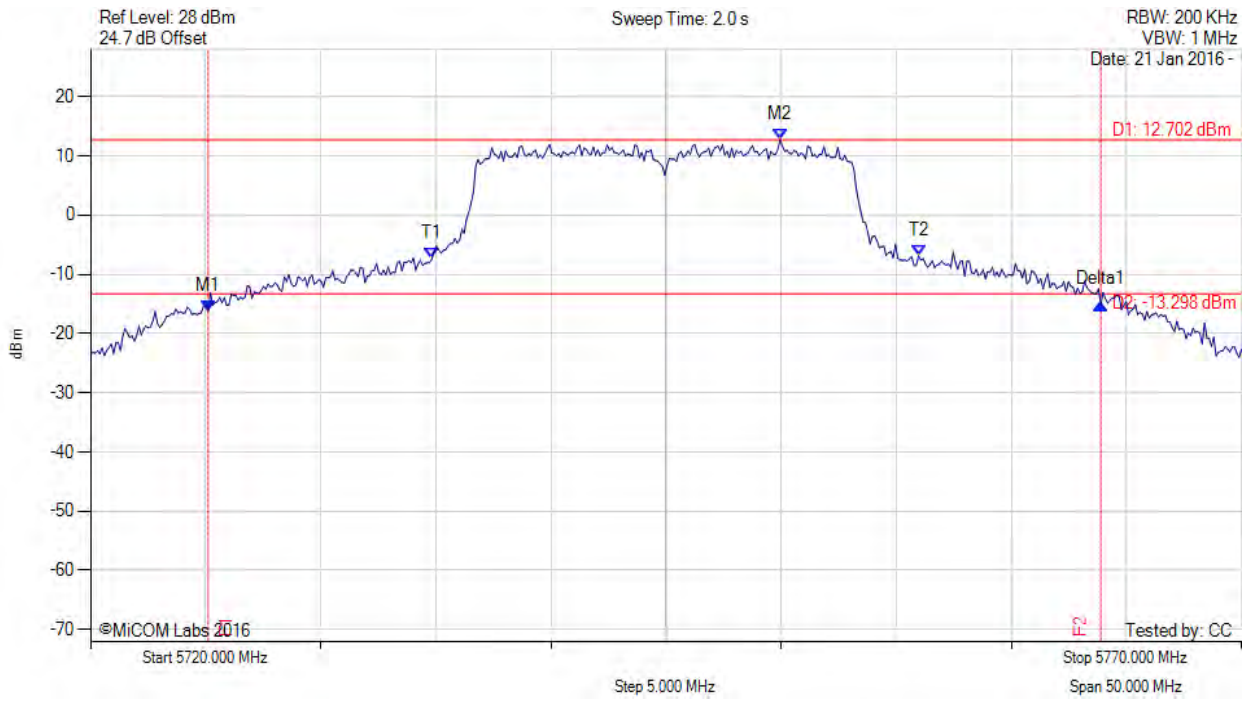
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5725.110 MHz : -16.242 dBm M2 : 5749.960 MHz : 12.702 dBm Delta1 : 38.778 MHz : 1.131 dB T1 : 5734.830 MHz : -7.420 dBm T2 : 5755.972 MHz : -6.871 dBm OBW : 21.142 MHz	Measured 26 dB Bandwidth: 38.778 MHz Measured 99% Bandwidth: 21.142 MHz

back to matrix

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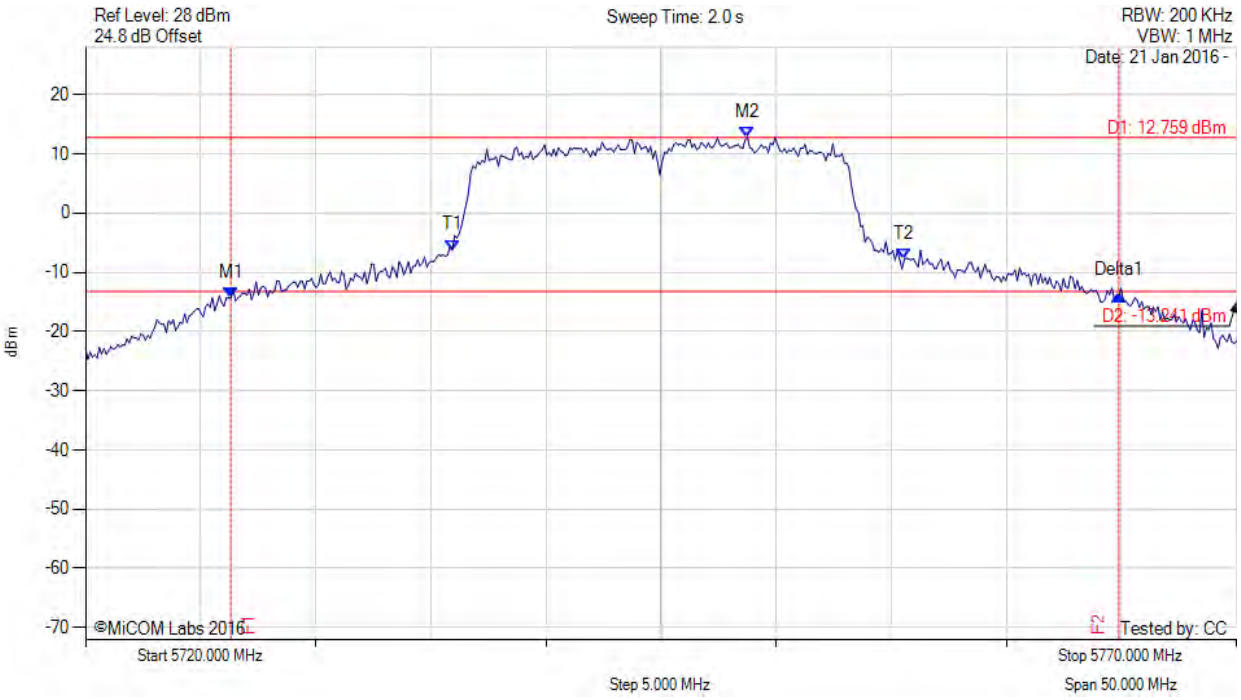
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5726.313 MHz : -14.257 dBm M2 : 5748.758 MHz : 12.759 dBm Delta1 : 38.577 MHz : 0.415 dB T1 : 5735.932 MHz : -6.256 dBm T2 : 5755.571 MHz : -7.788 dBm OBW : 19.639 MHz	Measured 26 dB Bandwidth: 38.577 MHz Measured 99% Bandwidth: 19.639 MHz

back to matrix

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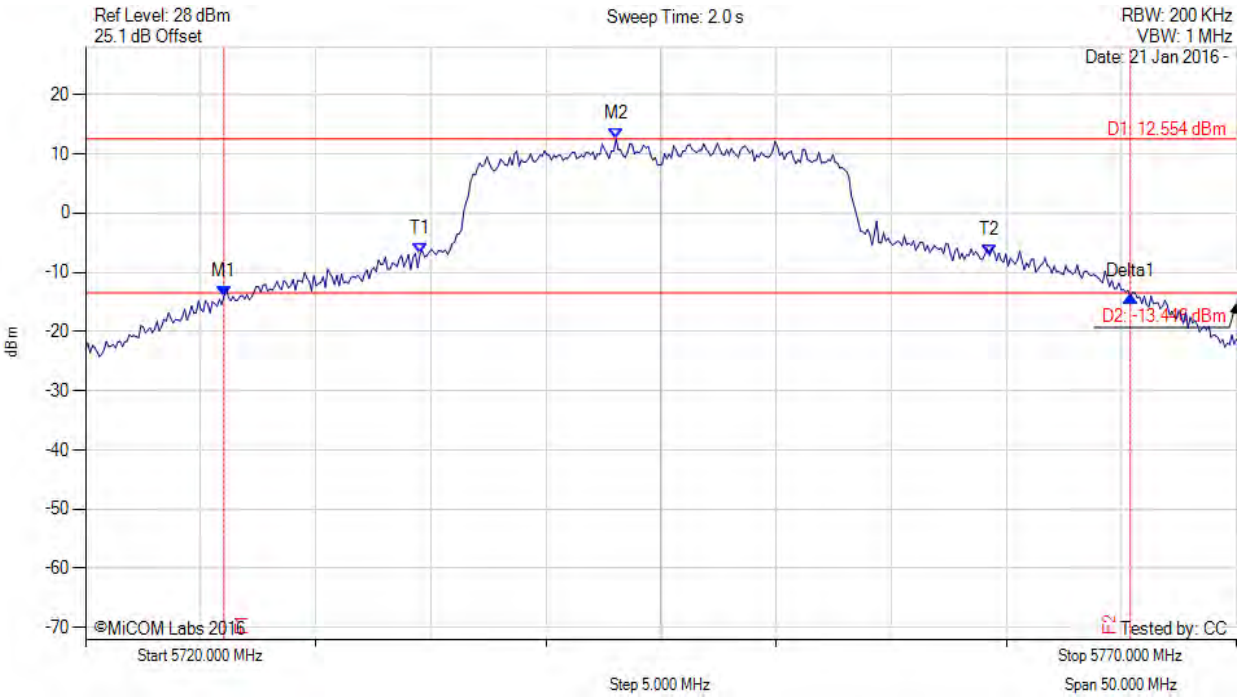
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



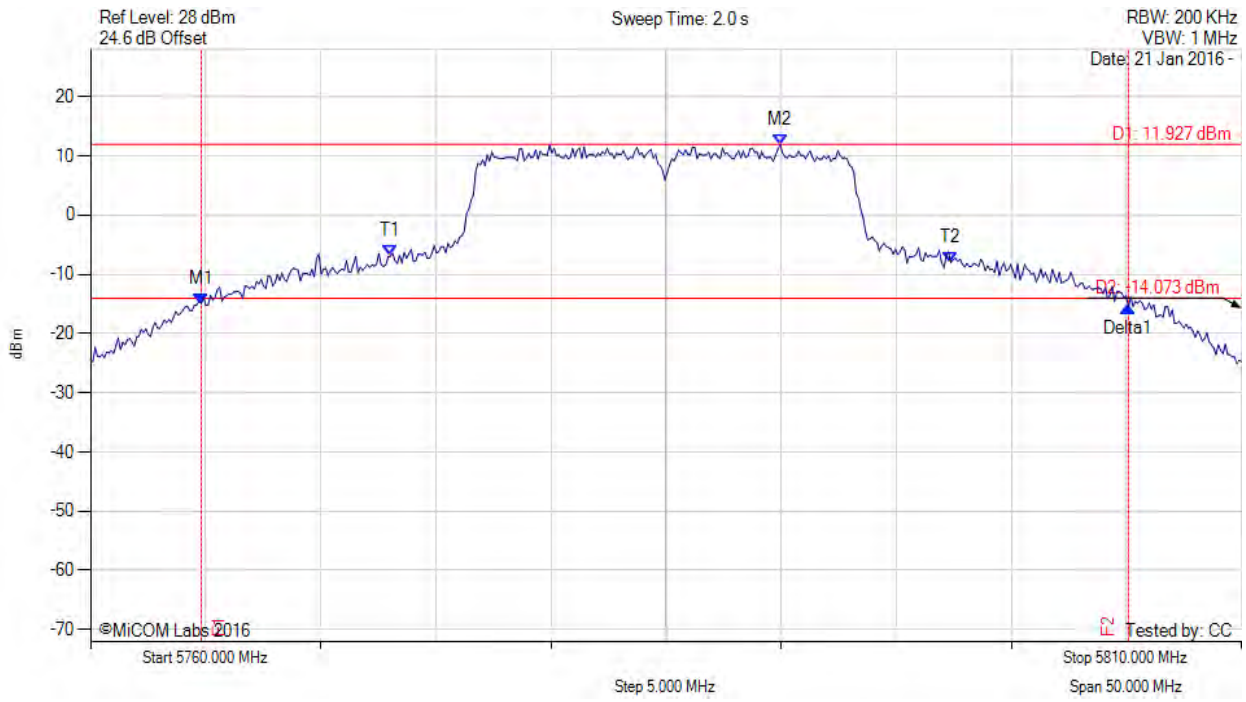
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5726.012 MHz : -14.066 dBm M2 : 5743.046 MHz : 12.554 dBm Delta1 : 39.379 MHz : -0.083 dB T1 : 5734.529 MHz : -6.944 dBm T2 : 5759.279 MHz : -7.163 dBm OBW : 24.749 MHz	Measured 26 dB Bandwidth: 39.379 MHz Measured 99% Bandwidth: 24.749 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: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



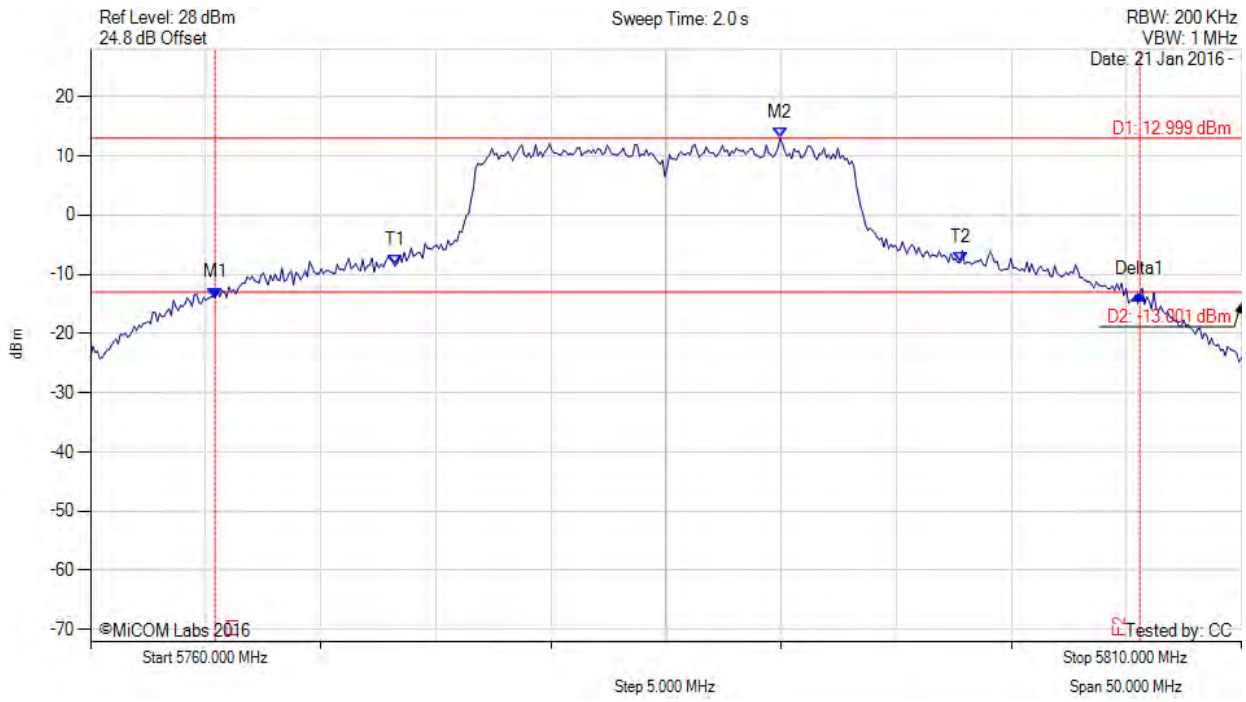
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5764.810 MHz : -14.955 dBm M2 : 5789.960 MHz : 11.927 dBm Delta1 : 40.281 MHz : -0.592 dB T1 : 5773.026 MHz : -6.944 dBm T2 : 5797.375 MHz : -8.040 dBm OBW : 24.349 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 24.349 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: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



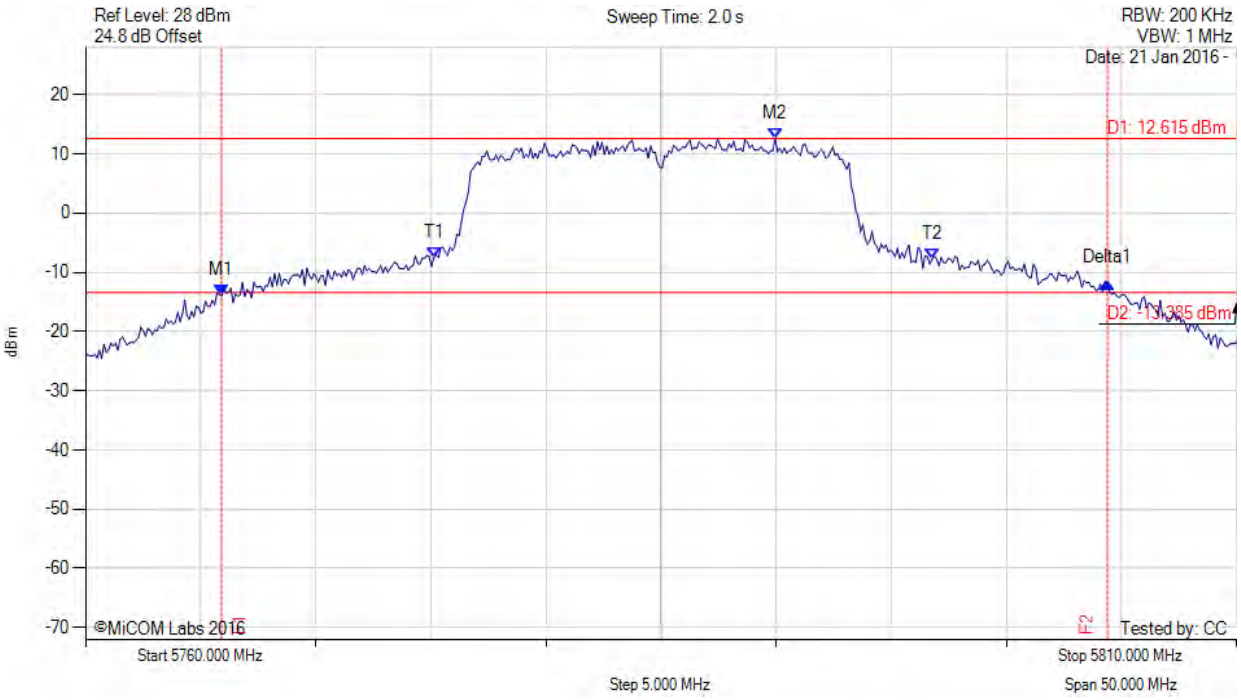
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5765.411 MHz : -13.977 dBm M2 : 5789.960 MHz : 12.999 dBm Delta1 : 40.180 MHz : 0.675 dB T1 : 5773.226 MHz : -8.585 dBm T2 : 5797.776 MHz : -8.020 dBm OBW : 24.549 MHz	Measured 26 dB Bandwidth: 40.180 MHz Measured 99% Bandwidth: 24.549 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: 802.11a, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5765.912 MHz : -13.950 dBm M2 : 5789.960 MHz : 12.615 dBm Delta1 : 38.477 MHz : 2.093 dB T1 : 5775.130 MHz : -7.491 dBm T2 : 5796.774 MHz : -7.841 dBm OBW : 21.643 MHz	Measured 26 dB Bandwidth: 38.477 MHz Measured 99% Bandwidth: 21.643 MHz

back to matrix

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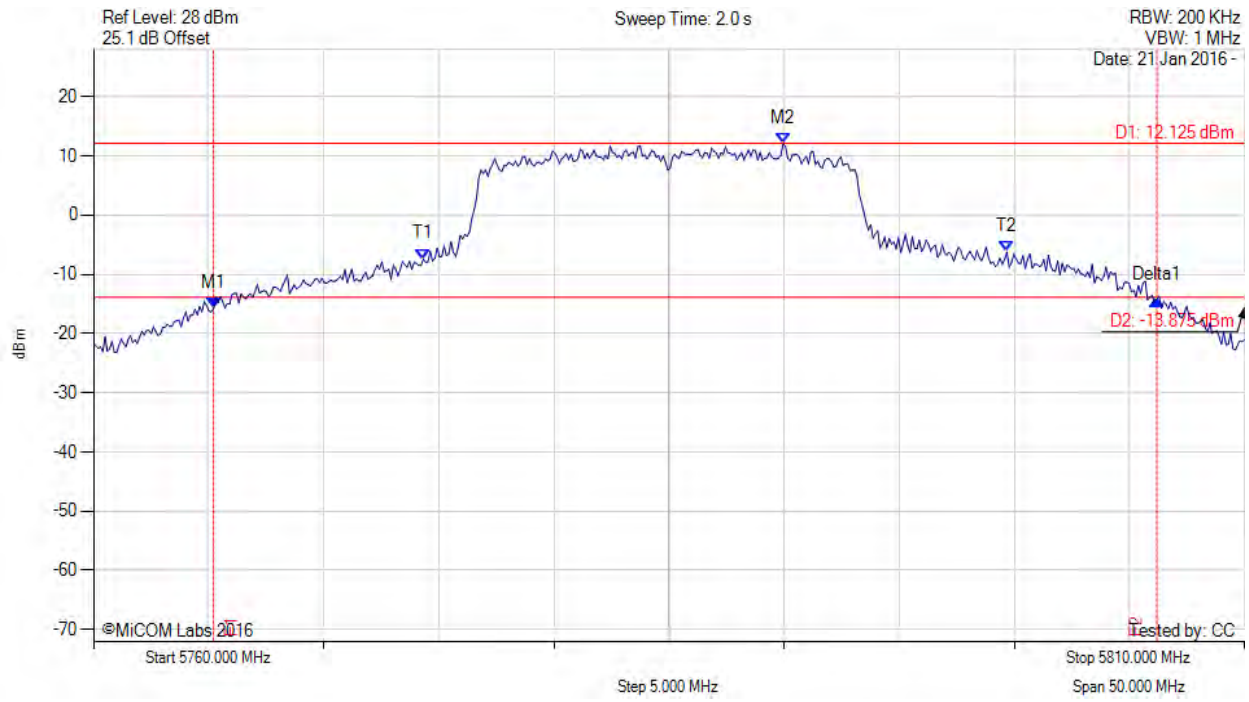
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



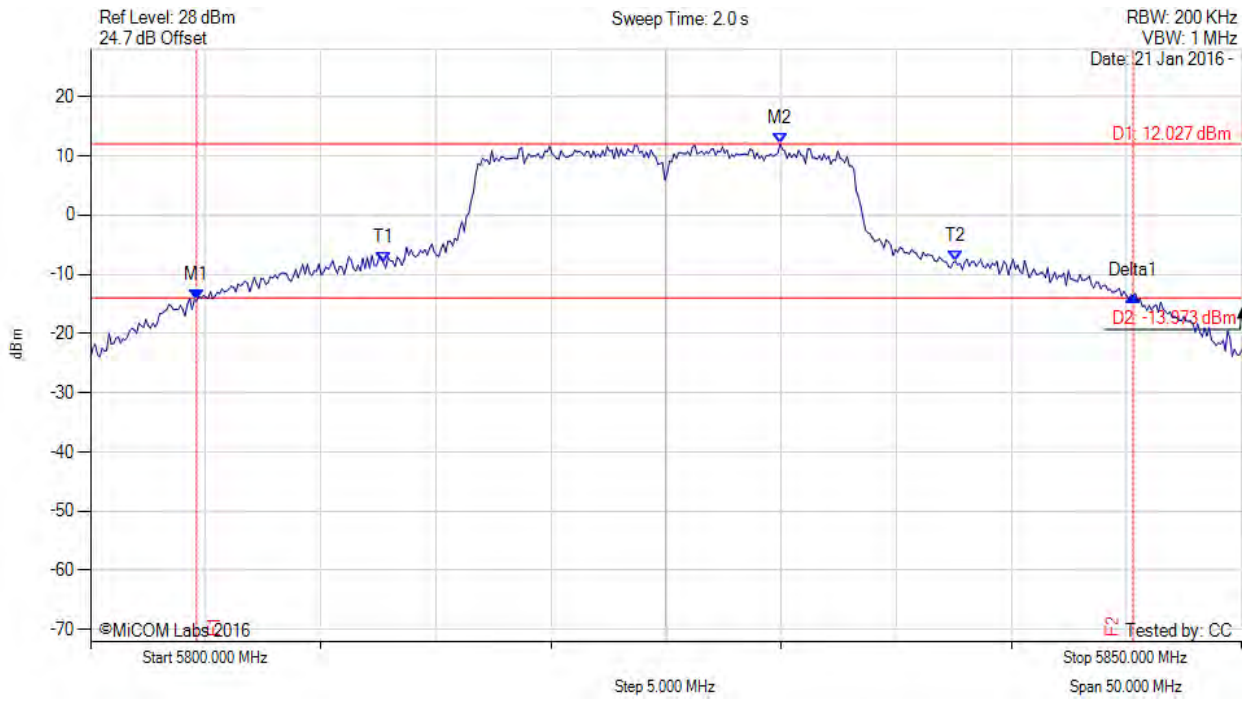
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5765.210 MHz : -15.811 dBm M2 : 5789.960 MHz : 12.125 dBm Delta1 : 40.982 MHz : 1.513 dB T1 : 5774.329 MHz : -7.428 dBm T2 : 5799.679 MHz : -6.244 dBm OBW : 25.351 MHz	Measured 26 dB Bandwidth: 40.982 MHz Measured 99% Bandwidth: 25.351 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: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



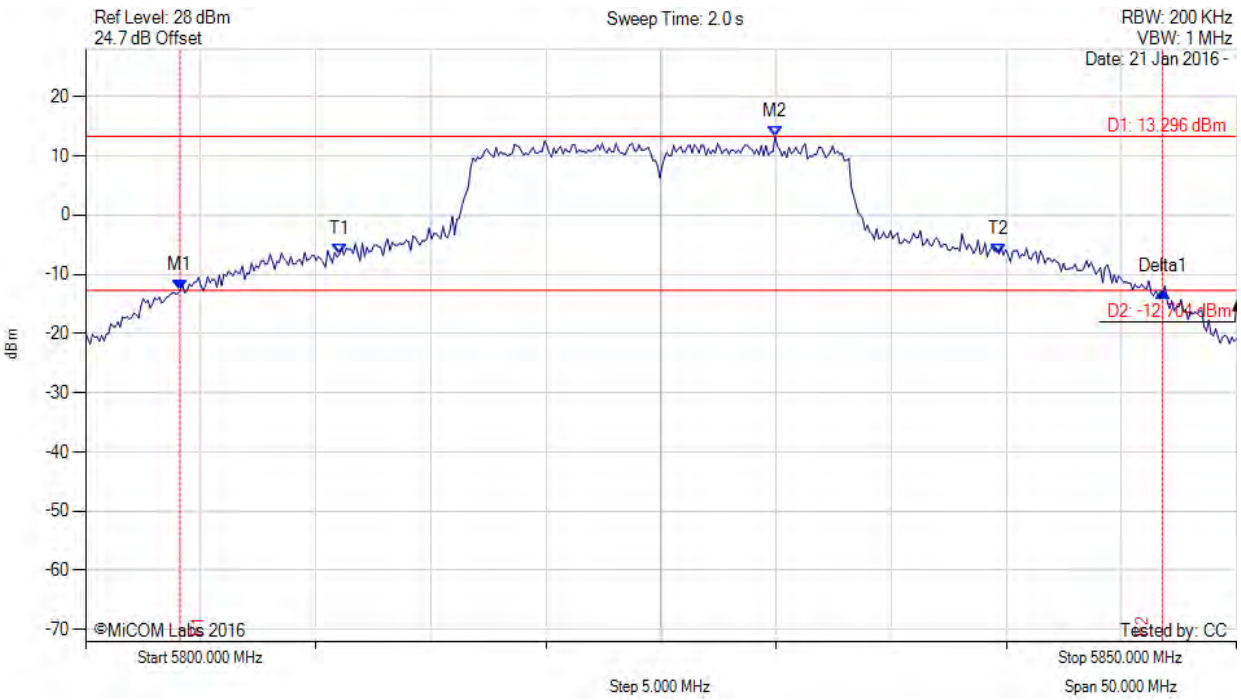
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5804.609 MHz : -14.412 dBm M2 : 5829.960 MHz : 12.027 dBm Delta1 : 40.681 MHz : 0.787 dB T1 : 5812.725 MHz : -8.099 dBm T2 : 5837.575 MHz : -7.798 dBm OBW : 24.850 MHz	Measured 26 dB Bandwidth: 40.681 MHz Measured 99% Bandwidth: 24.850 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: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5804.108 MHz : -12.712 dBm M2 : 5829.960 MHz : 13.296 dBm Delta1 : 42.685 MHz : -0.124 dB T1 : 5811.022 MHz : -6.659 dBm T2 : 5839.679 MHz : -6.600 dBm OBW : 28.657 MHz	Measured 26 dB Bandwidth: 42.685 MHz Measured 99% Bandwidth: 28.657 MHz

back to matrix

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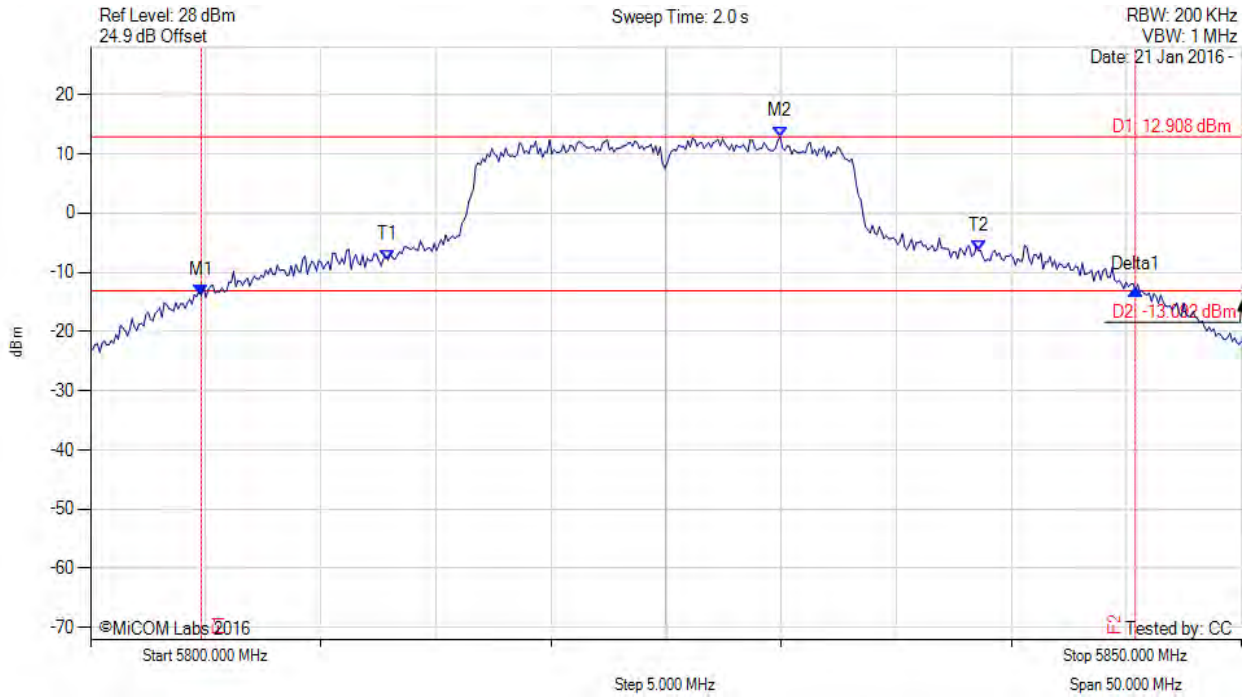
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5804.810 MHz : -13.962 dBm M2 : 5829.960 MHz : 12.908 dBm Delta1 : 40.581 MHz : 1.121 dB T1 : 5812.926 MHz : -7.900 dBm T2 : 5838.577 MHz : -6.393 dBm OBW : 25.651 MHz	Measured 26 dB Bandwidth: 40.581 MHz Measured 99% Bandwidth: 25.651 MHz

back to matrix

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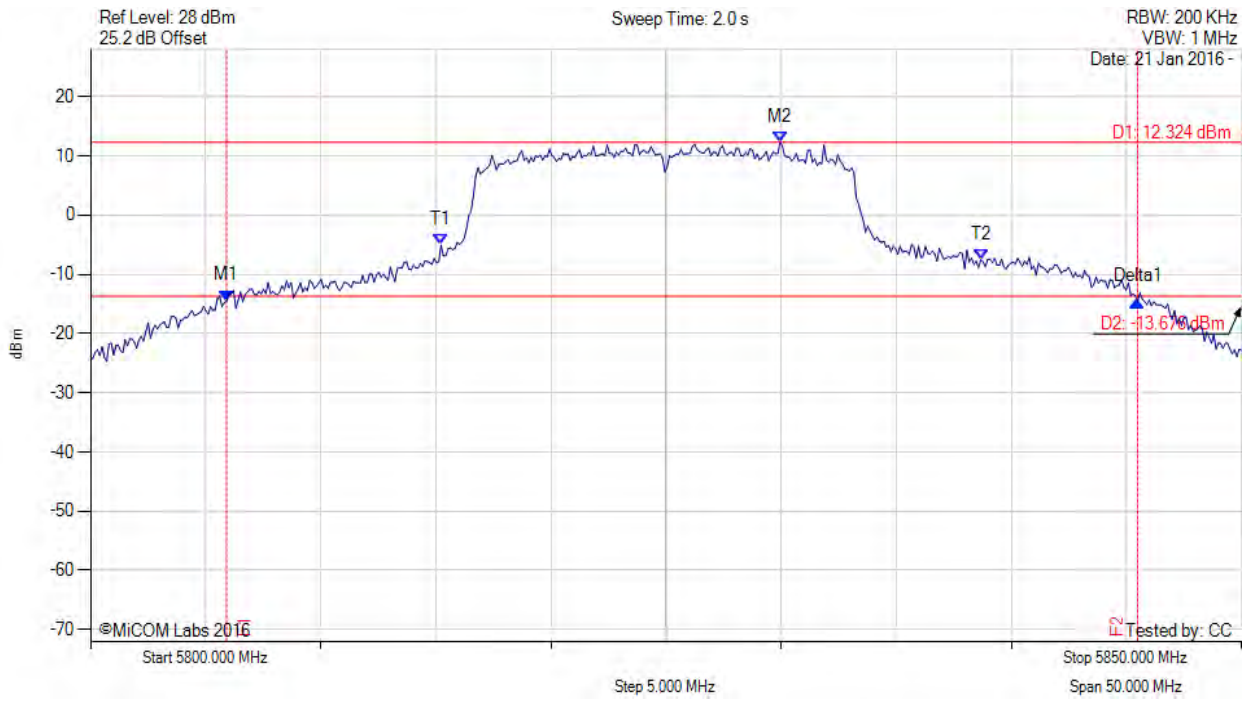
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5805.912 MHz : -14.446 dBm M2 : 5829.960 MHz : 12.324 dBm Delta1 : 39.579 MHz : -0.138 dB T1 : 5815.230 MHz : -5.054 dBm T2 : 5838.677 MHz : -7.519 dBm OBW : 23.447 MHz	Measured 26 dB Bandwidth: 39.579 MHz Measured 99% Bandwidth: 23.447 MHz

back to matrix

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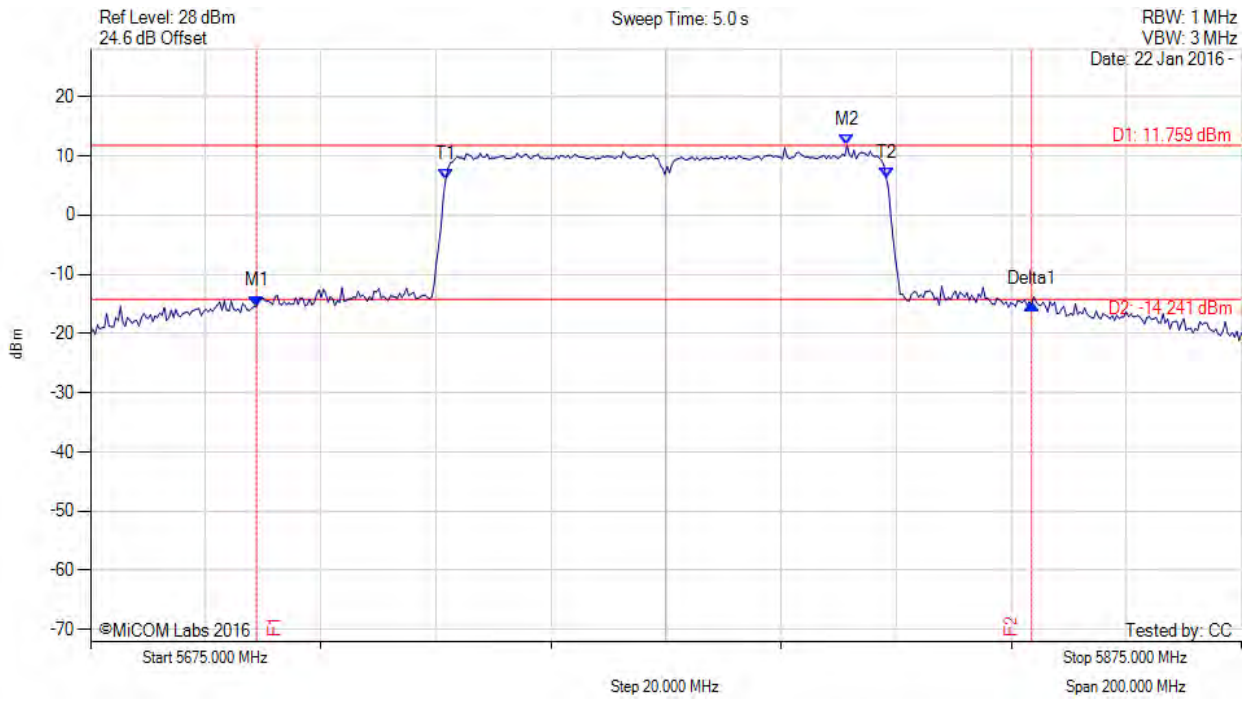
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5703.858 MHz : -15.378 dBm M2 : 5806.463 MHz : 11.759 dBm Delta1 : 134.669 MHz : 0.299 dB T1 : 5736.723 MHz : 6.056 dBm T2 : 5813.277 MHz : 6.332 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 134.669 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

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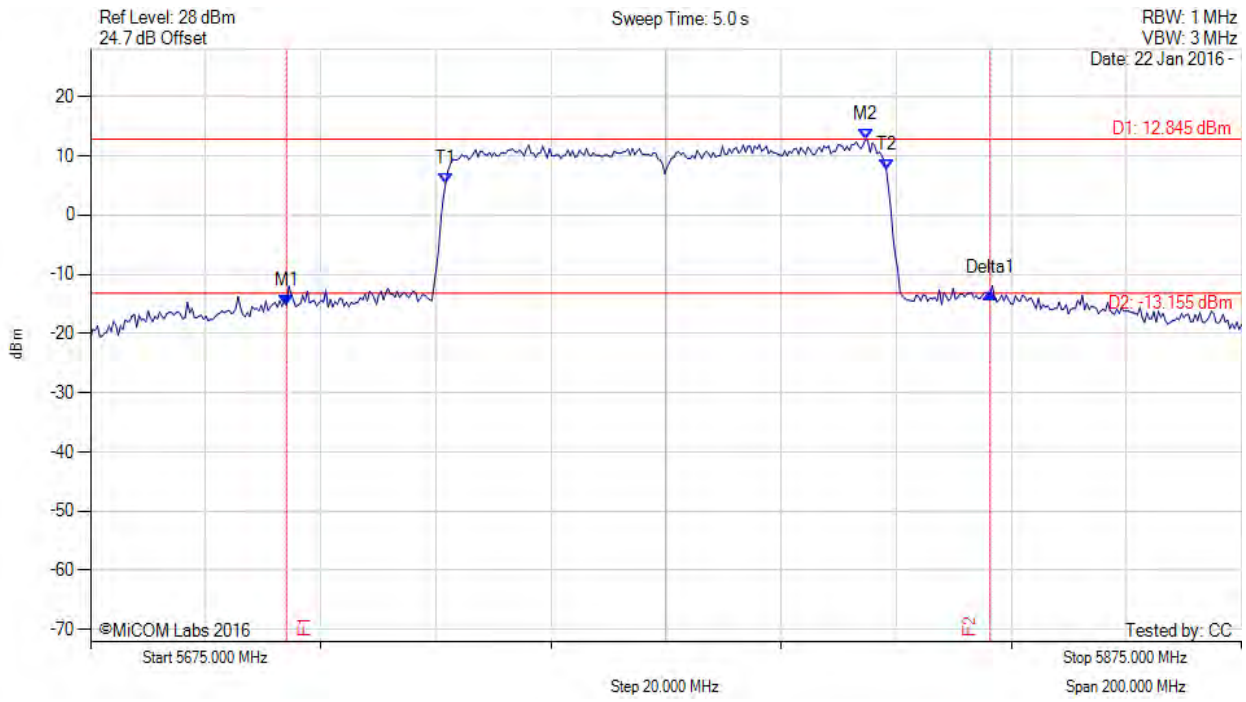
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5709.068 MHz : -15.237 dBm M2 : 5809.669 MHz : 12.845 dBm Delta1 : 122.244 MHz : 2.013 dB T1 : 5736.723 MHz : 5.364 dBm T2 : 5813.277 MHz : 7.732 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 122.244 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

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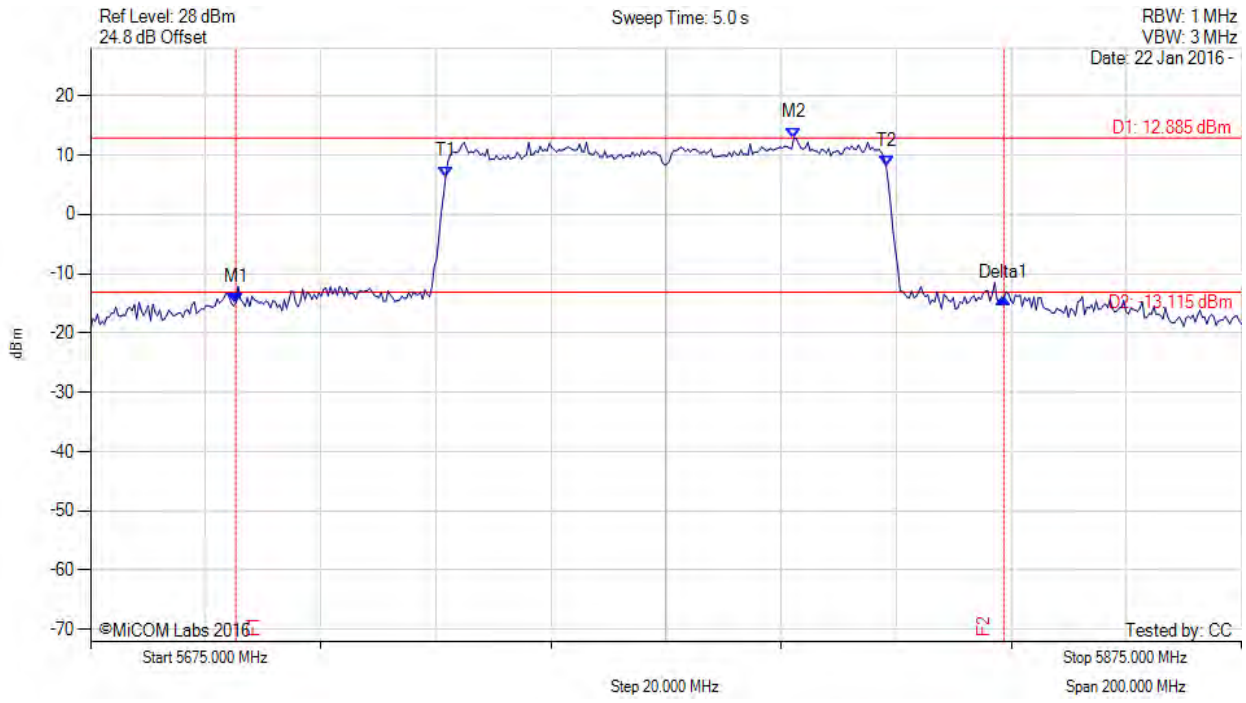
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5700.251 MHz : -14.922 dBm M2 : 5797.244 MHz : 12.885 dBm Delta1 : 133.467 MHz : 0.789 dB T1 : 5736.723 MHz : 6.351 dBm T2 : 5813.277 MHz : 8.088 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 133.467 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

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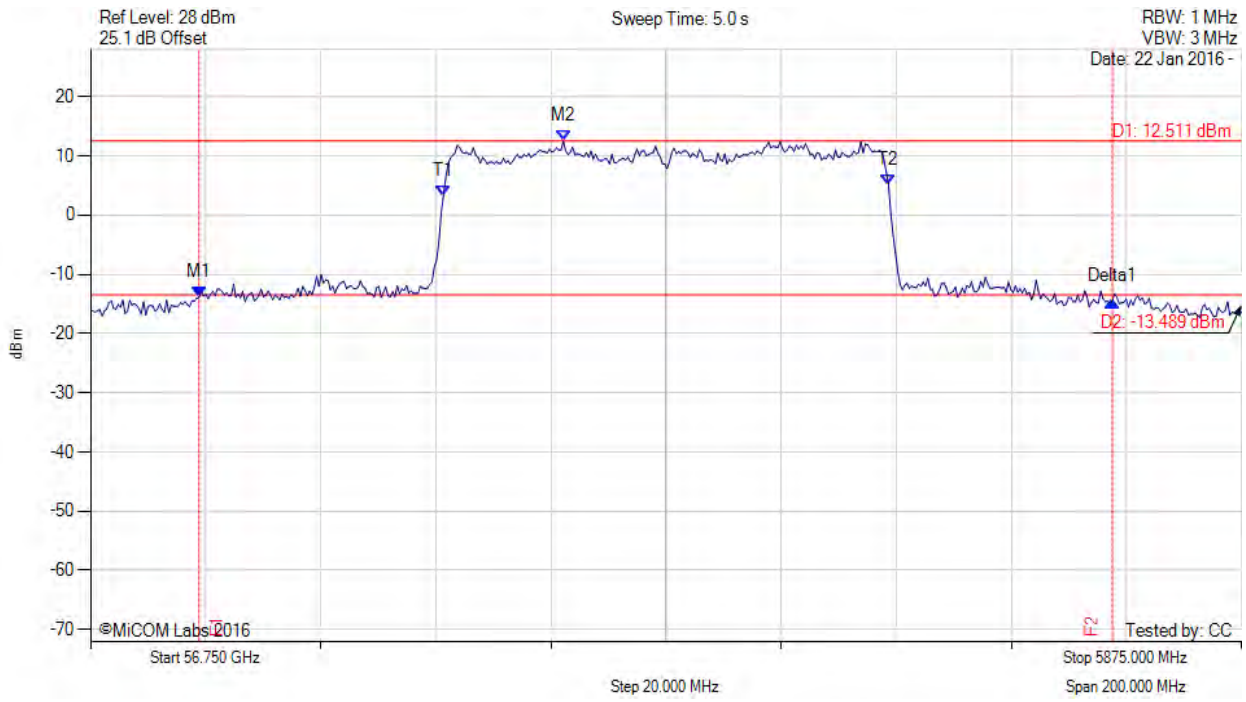
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5693.838 MHz : -13.916 dBm M2 : 5757.164 MHz : 12.511 dBm Delta1 : 158.717 MHz : -0.628 dB T1 : 5736.323 MHz : 3.270 dBm T2 : 5813.677 MHz : 5.061 dBm OBW : 77.355 MHz	Measured 26 dB Bandwidth: 158.717 MHz Measured 99% Bandwidth: 77.355 MHz

back to matrix

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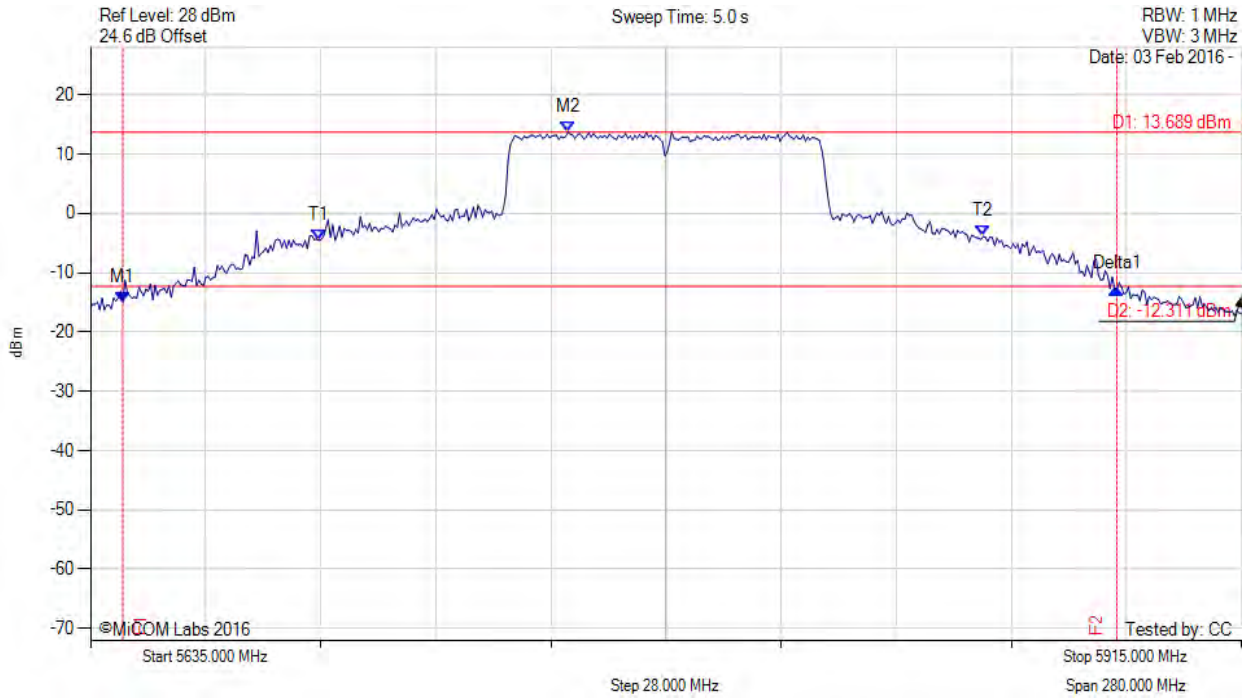
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5642.856 MHz : -14.941 dBm M2 : 5751.152 MHz : 13.689 dBm Delta1 : 241.844 MHz : 2.286 dB T1 : 5690.551 MHz : -4.556 dBm T2 : 5852.154 MHz : -3.897 dBm OBW : 161.603 MHz	Measured 26 dB Bandwidth: 241.844 MHz Measured 99% Bandwidth: 161.603 MHz

back to matrix

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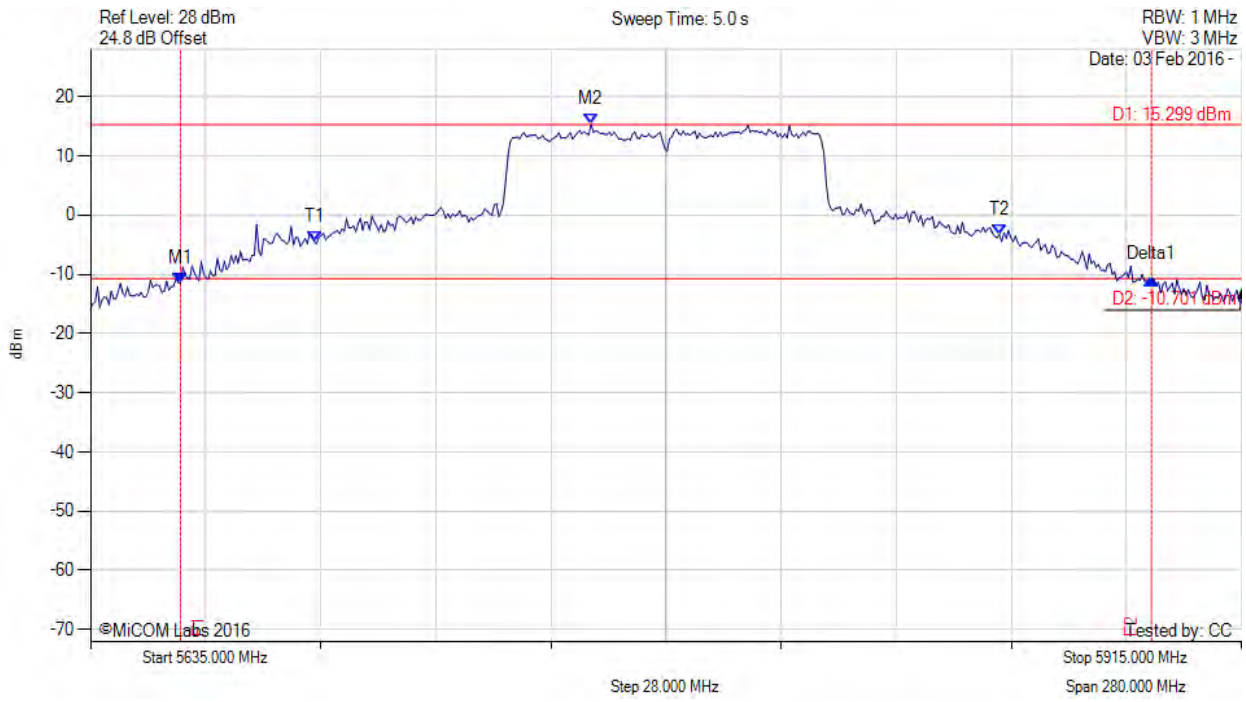
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5656.884 MHz : -11.512 dBm M2 : 5756.764 MHz : 15.299 dBm Delta1 : 236.232 MHz : 0.651 dB T1 : 5689.429 MHz : -4.475 dBm T2 : 5856.082 MHz : -3.277 dBm OBW : 166.653 MHz	Measured 26 dB Bandwidth: 236.232 MHz Measured 99% Bandwidth: 166.653 MHz

back to matrix

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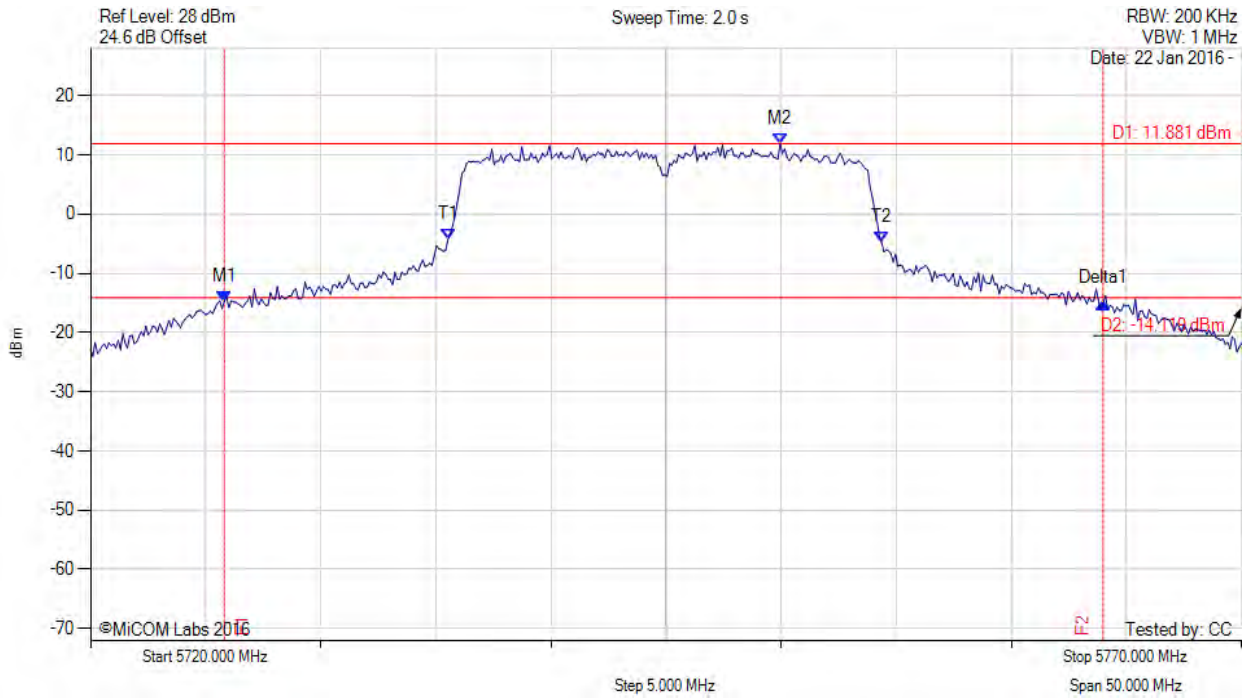
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5725.812 MHz : -14.713 dBm M2 : 5749.960 MHz : 11.881 dBm Delta1 : 38.176 MHz : -0.354 dB T1 : 5735.531 MHz : -4.204 dBm T2 : 5754.369 MHz : -4.796 dBm OBW : 18.838 MHz	Measured 26 dB Bandwidth: 38.176 MHz Measured 99% Bandwidth: 18.838 MHz

back to matrix

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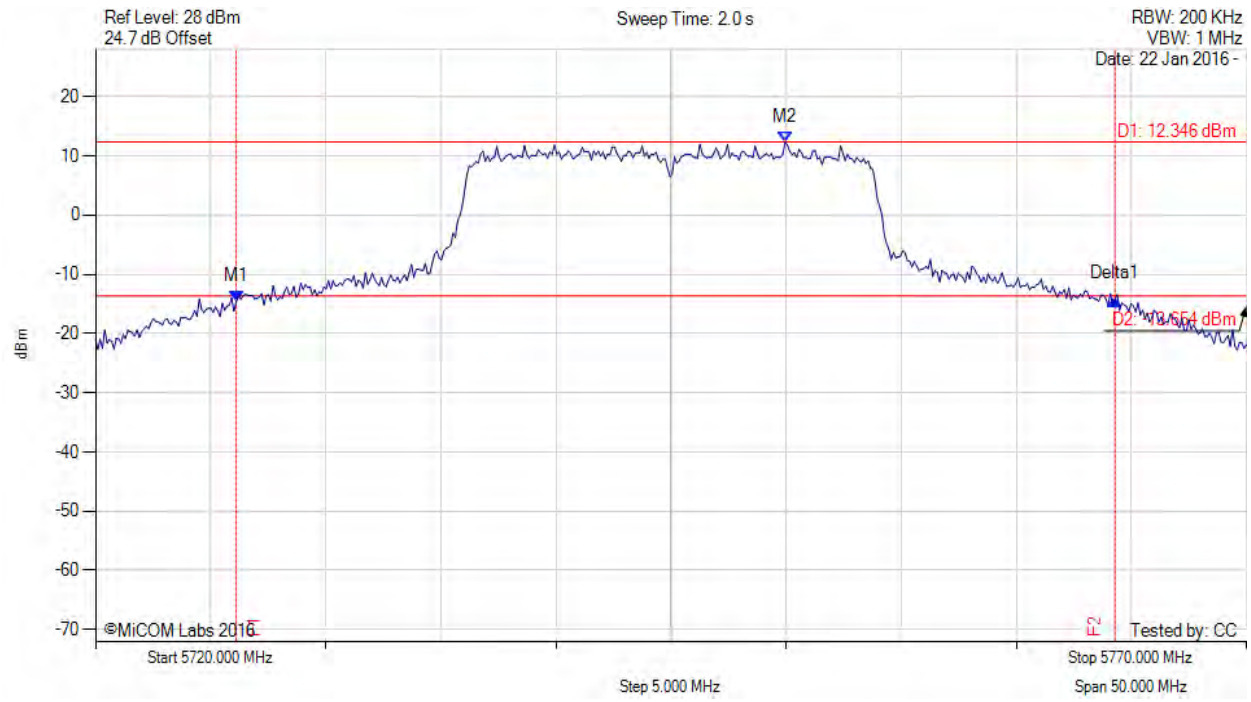
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5726.112 MHz : -14.615 dBm M2 : 5749.960 MHz : 12.346 dBm Delta1 : 38.176 MHz : 0.409 dB T1 : 0 Hz : 500.000 dBm T2 : 0 Hz : 500.000 dBm OBW : 19.138 MHz	Measured 26 dB Bandwidth: 38.176 MHz Measured 99% Bandwidth: 19.138 MHz

back to matrix

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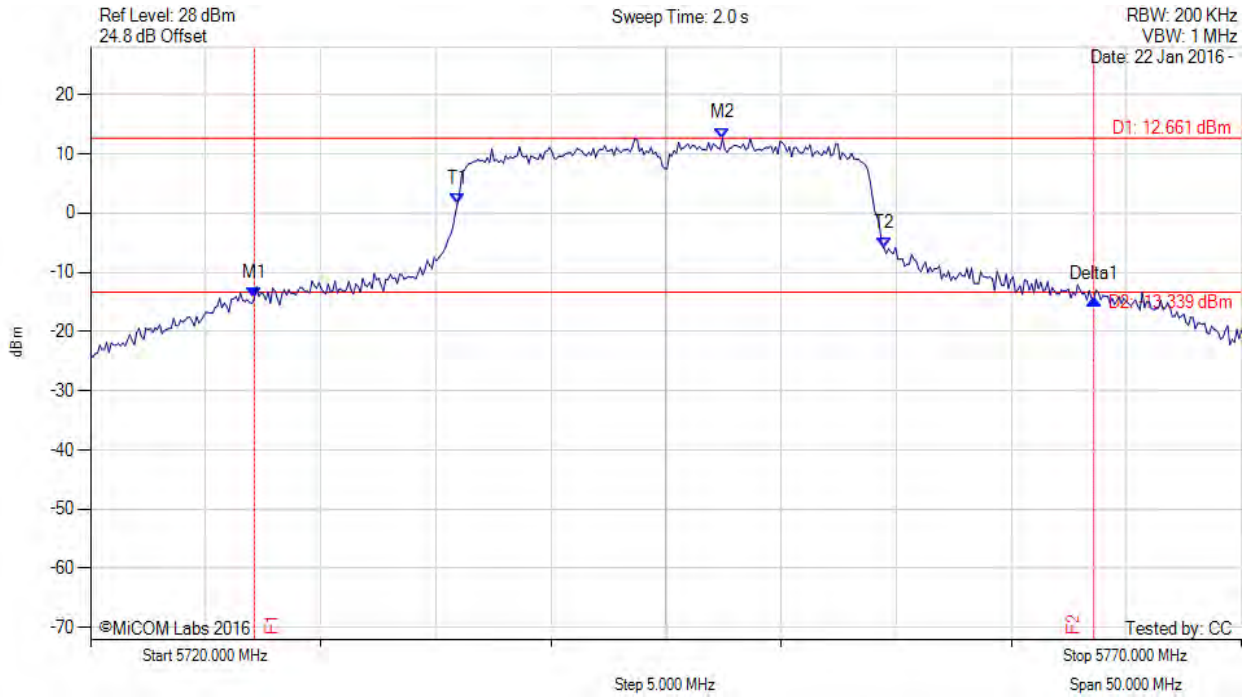
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5727.114 MHz : -14.349 dBm M2 : 5747.455 MHz : 12.661 dBm Delta1 : 36.473 MHz : -0.232 dB T1 : 5735.932 MHz : 1.533 dBm T2 : 5754.469 MHz : -5.919 dBm OBW : 18.537 MHz	Measured 26 dB Bandwidth: 36.473 MHz Measured 99% Bandwidth: 18.537 MHz

back to matrix

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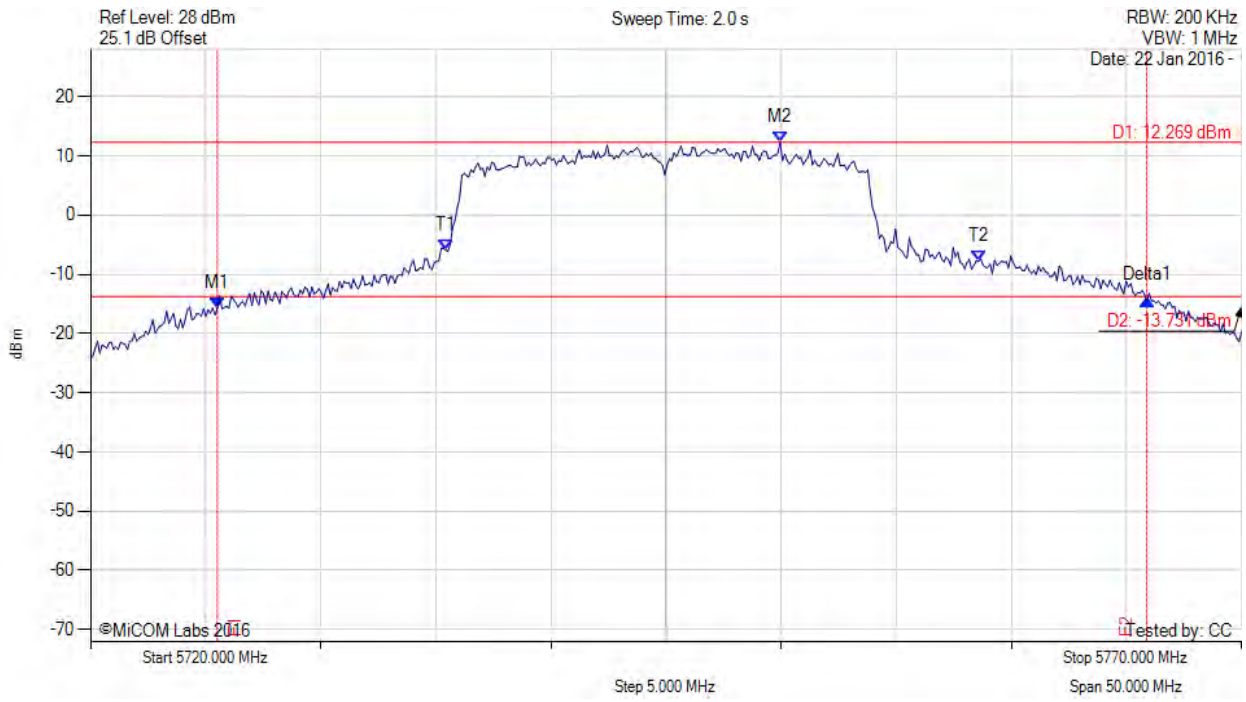
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5725.511 MHz : -15.742 dBm M2 : 5749.960 MHz : 12.269 dBm Delta1 : 40.381 MHz : 1.320 dB T1 : 5735.431 MHz : -5.929 dBm T2 : 5758.577 MHz : -7.780 dBm OBW : 23.146 MHz	Measured 26 dB Bandwidth: 40.381 MHz Measured 99% Bandwidth: 23.146 MHz

back to matrix

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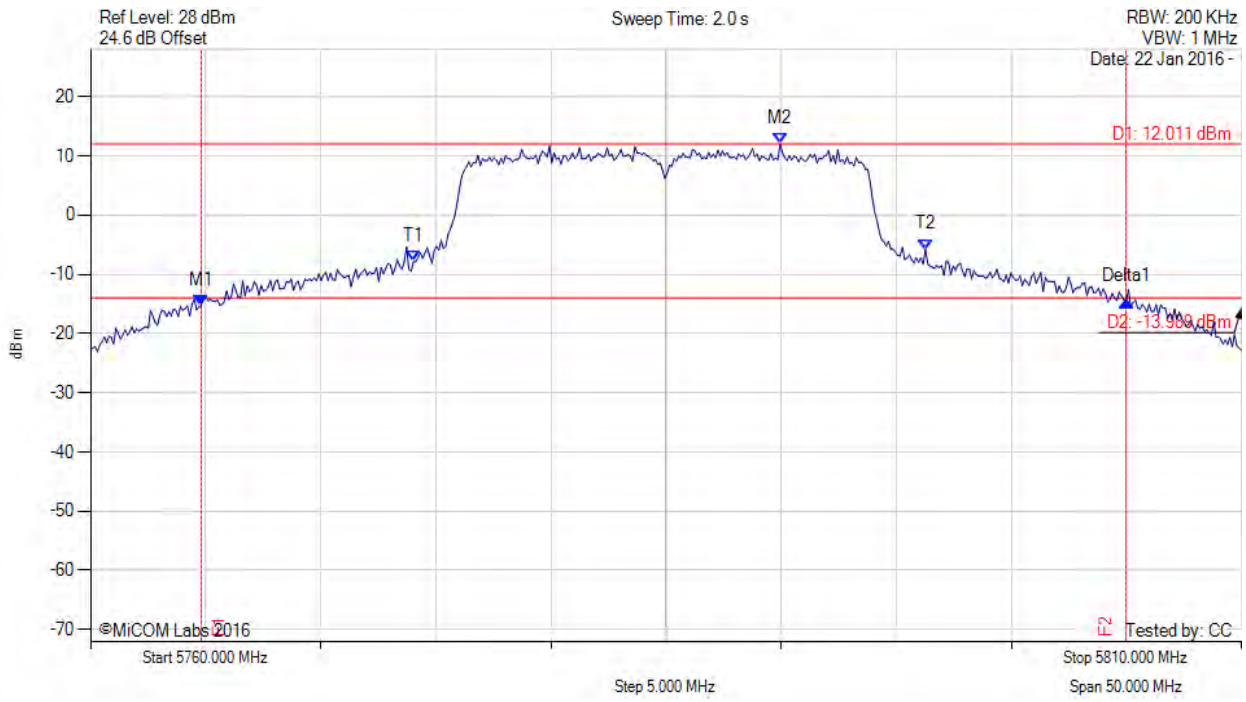
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5764.810 MHz : -15.166 dBm M2 : 5789.960 MHz : 12.011 dBm Delta1 : 40.180 MHz : 0.704 dB T1 : 5774.028 MHz : -7.887 dBm T2 : 5796.273 MHz : -5.809 dBm OBW : 22.244 MHz	Measured 26 dB Bandwidth: 40.180 MHz Measured 99% Bandwidth: 22.244 MHz

back to matrix

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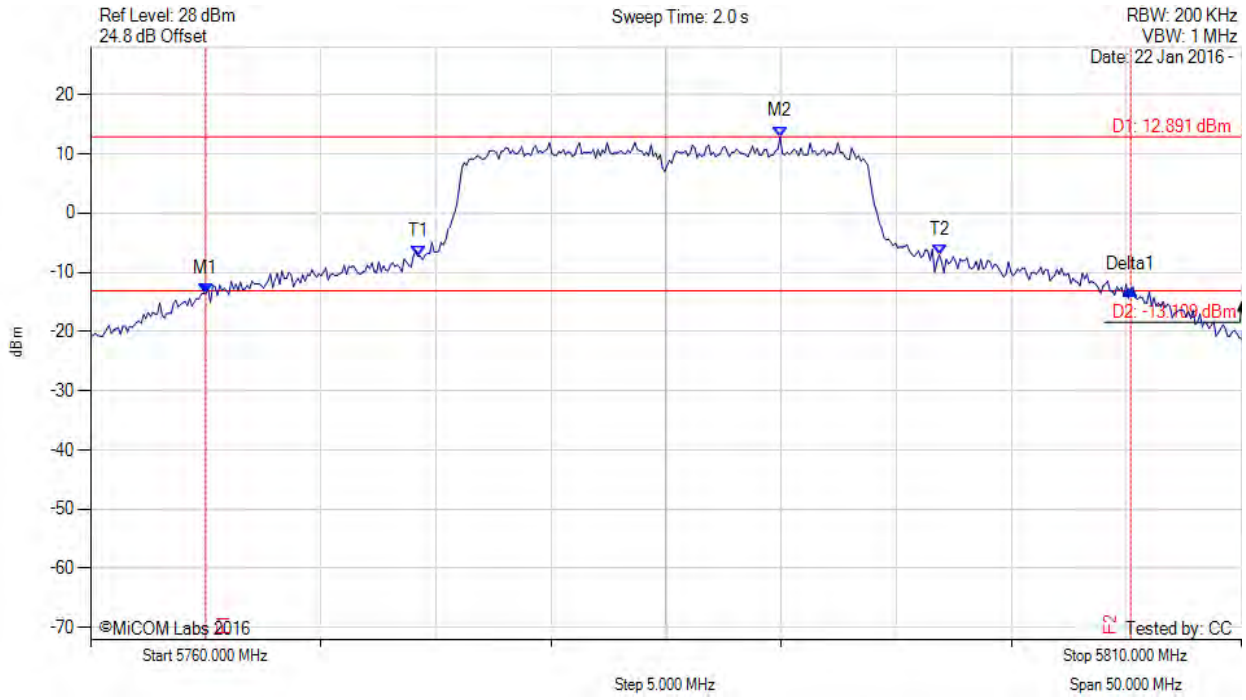
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5765.010 MHz : -13.529 dBm M2 : 5789.960 MHz : 12.891 dBm Delta1 : 40.180 MHz : 0.669 dB T1 : 5774.228 MHz : -7.296 dBm T2 : 5796.874 MHz : -7.062 dBm OBW : 22.645 MHz	Measured 26 dB Bandwidth: 40.180 MHz Measured 99% Bandwidth: 22.645 MHz

back to matrix

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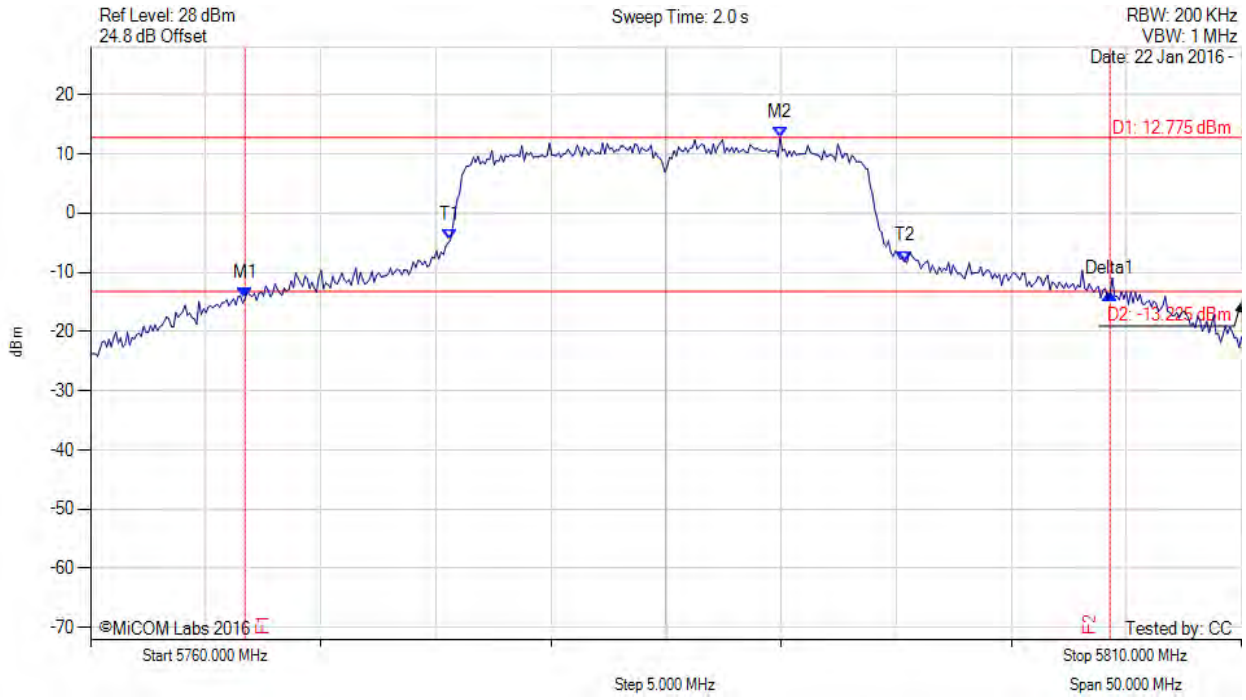
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



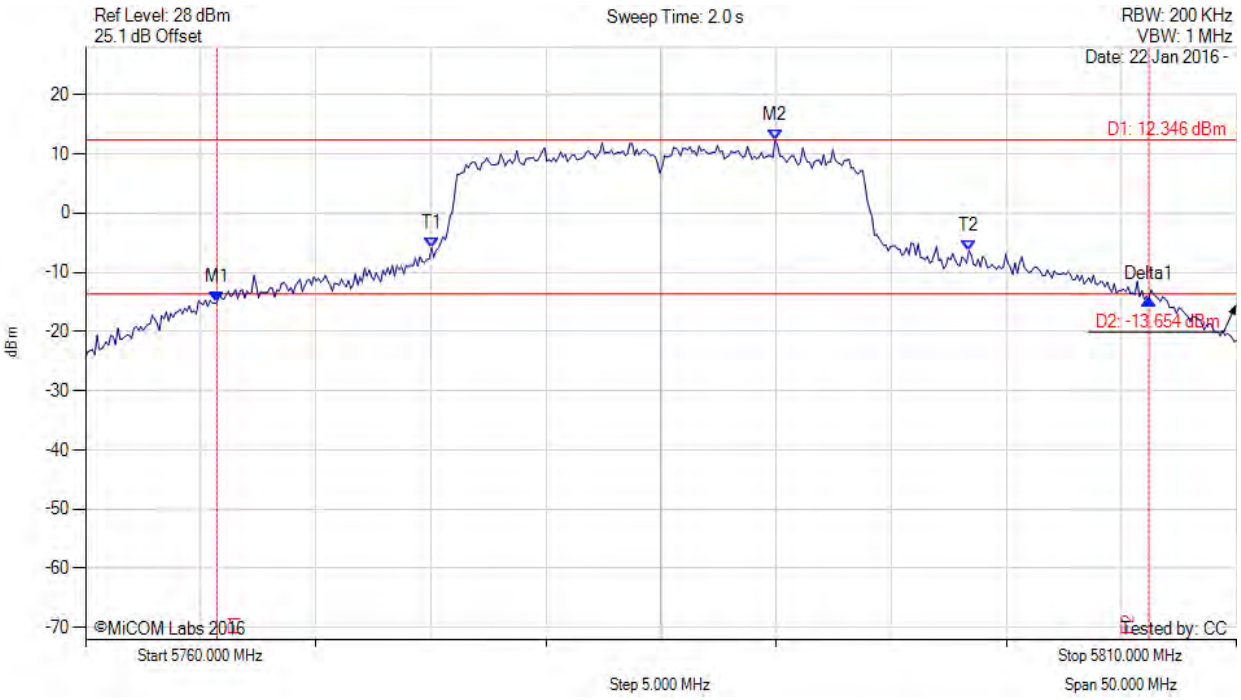
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5766.713 MHz : -14.406 dBm M2 : 5789.960 MHz : 12.775 dBm Delta1 : 37.575 MHz : 0.797 dB T1 : 5775.631 MHz : -4.605 dBm T2 : 5795.371 MHz : -8.127 dBm OBW : 19.739 MHz	Measured 26 dB Bandwidth: 37.575 MHz Measured 99% Bandwidth: 19.739 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: 802.11n HT-20, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



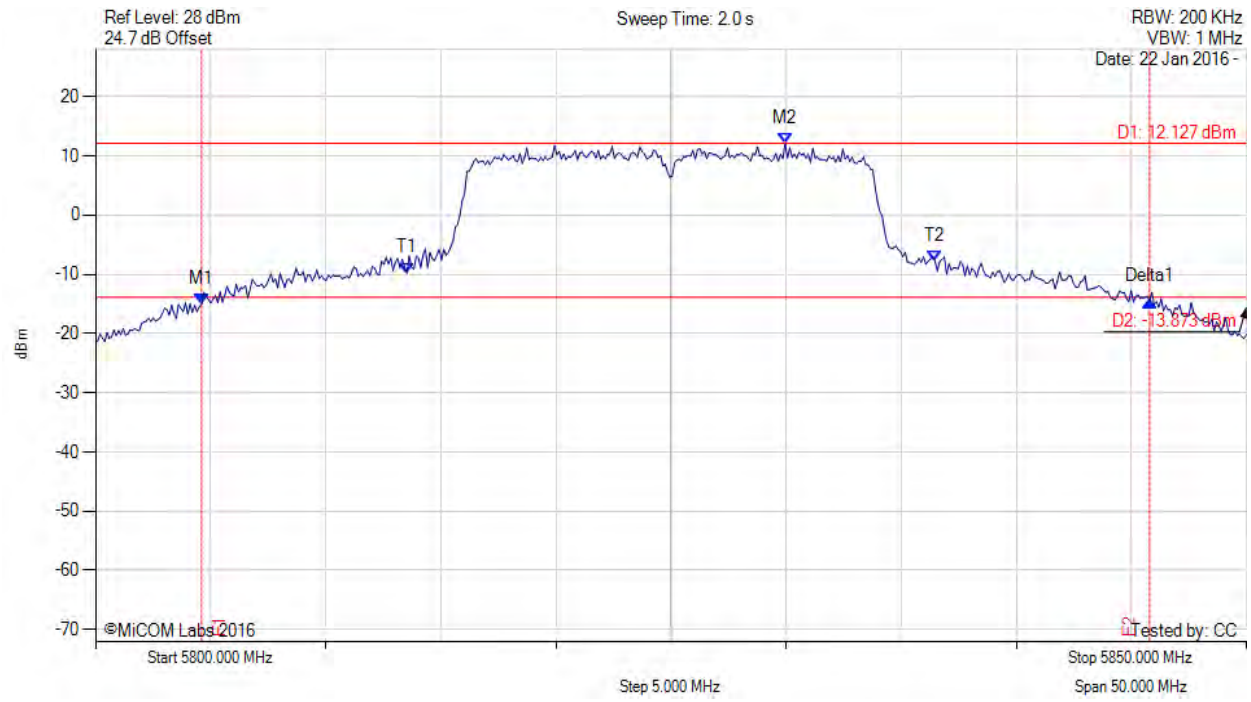
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5765.711 MHz : -15.079 dBm M2 : 5789.960 MHz : 12.346 dBm Delta1 : 40.481 MHz : 0.602 dB T1 : 5775.030 MHz : -5.921 dBm T2 : 5798.377 MHz : -6.360 dBm OBW : 23.347 MHz	Measured 26 dB Bandwidth: 40.481 MHz Measured 99% Bandwidth: 23.347 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: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5804.609 MHz : -15.018 dBm M2 : 5829.960 MHz : 12.127 dBm Delta1 : 41.182 MHz : 0.539 dB T1 : 5813.527 MHz : -9.777 dBm T2 : 5836.473 MHz : -7.853 dBm OBW : 22.946 MHz	Measured 26 dB Bandwidth: 41.182 MHz Measured 99% Bandwidth: 22.946 MHz

back to matrix

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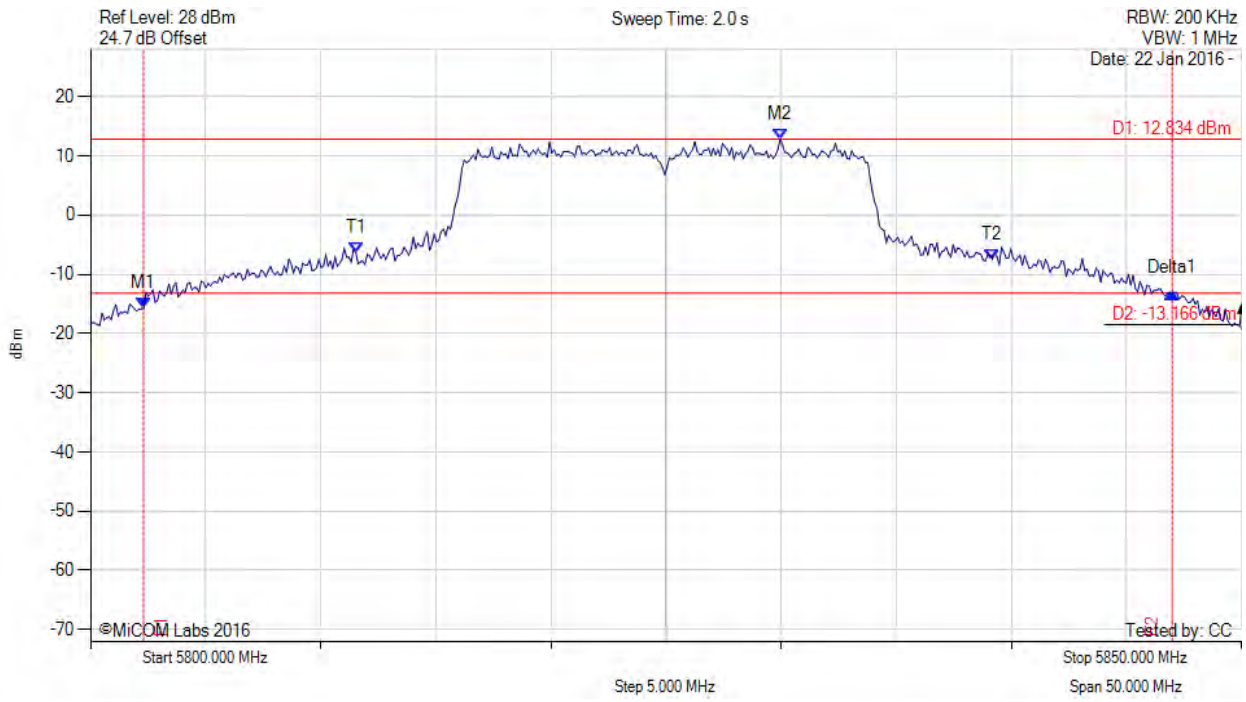
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5802.305 MHz : -15.815 dBm M2 : 5829.960 MHz : 12.834 dBm Delta1 : 44.689 MHz : 2.581 dB T1 : 5811.523 MHz : -6.289 dBm T2 : 5839.178 MHz : -7.491 dBm OBW : 27.655 MHz	Measured 26 dB Bandwidth: 44.689 MHz Measured 99% Bandwidth: 27.655 MHz

back to matrix

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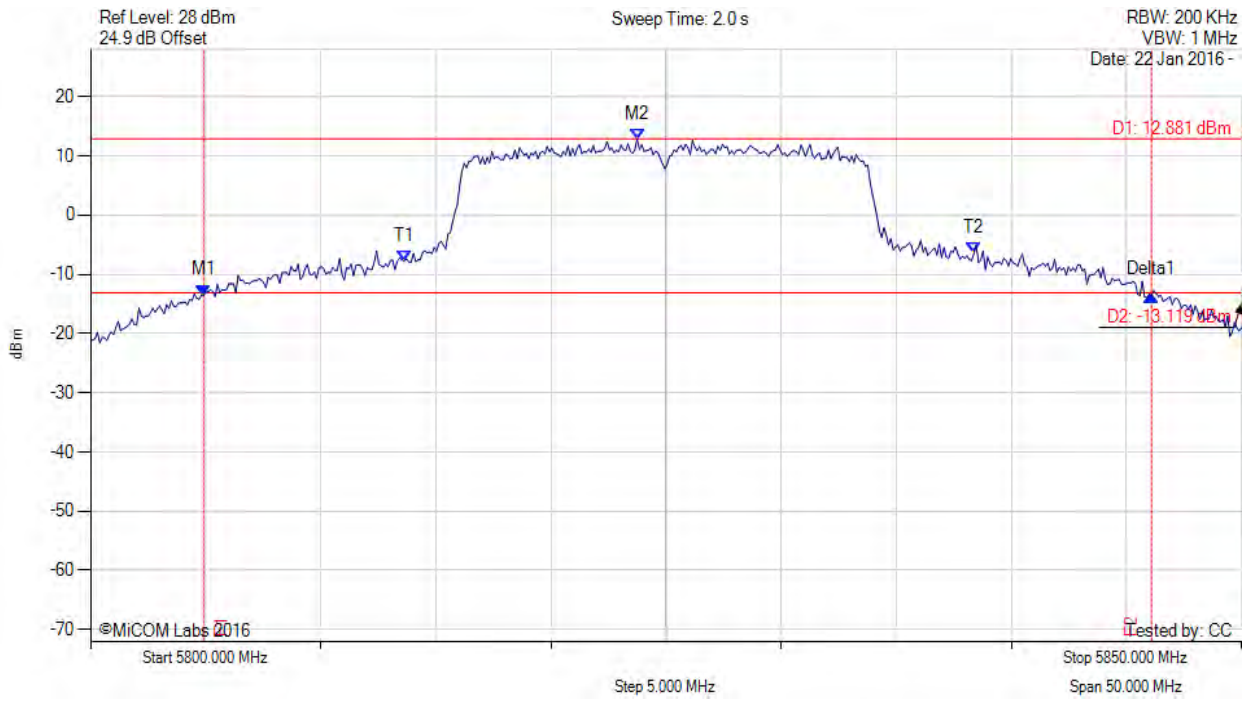
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5804.910 MHz : -13.507 dBm M2 : 5823.747 MHz : 12.881 dBm Delta1 : 41.182 MHz : 0.002 dB T1 : 5813.627 MHz : -7.729 dBm T2 : 5838.377 MHz : -6.484 dBm OBW : 24.749 MHz	Measured 26 dB Bandwidth: 41.182 MHz Measured 99% Bandwidth: 24.749 MHz

back to matrix

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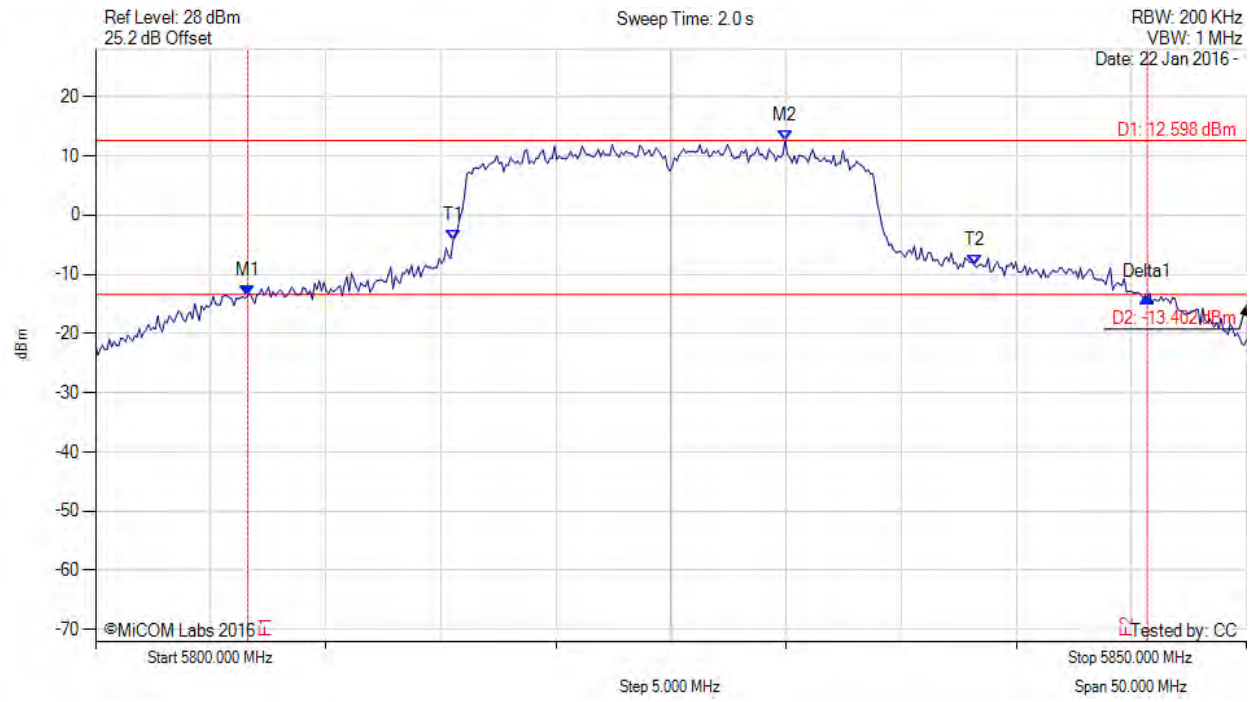
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5806.613 MHz : -13.529 dBm M2 : 5829.960 MHz : 12.598 dBm Delta1 : 39.078 MHz : -0.315 dB T1 : 5815.531 MHz : -4.296 dBm T2 : 5838.176 MHz : -8.473 dBm OBW : 22.645 MHz	Measured 26 dB Bandwidth: 39.078 MHz Measured 99% Bandwidth: 22.645 MHz

back to matrix

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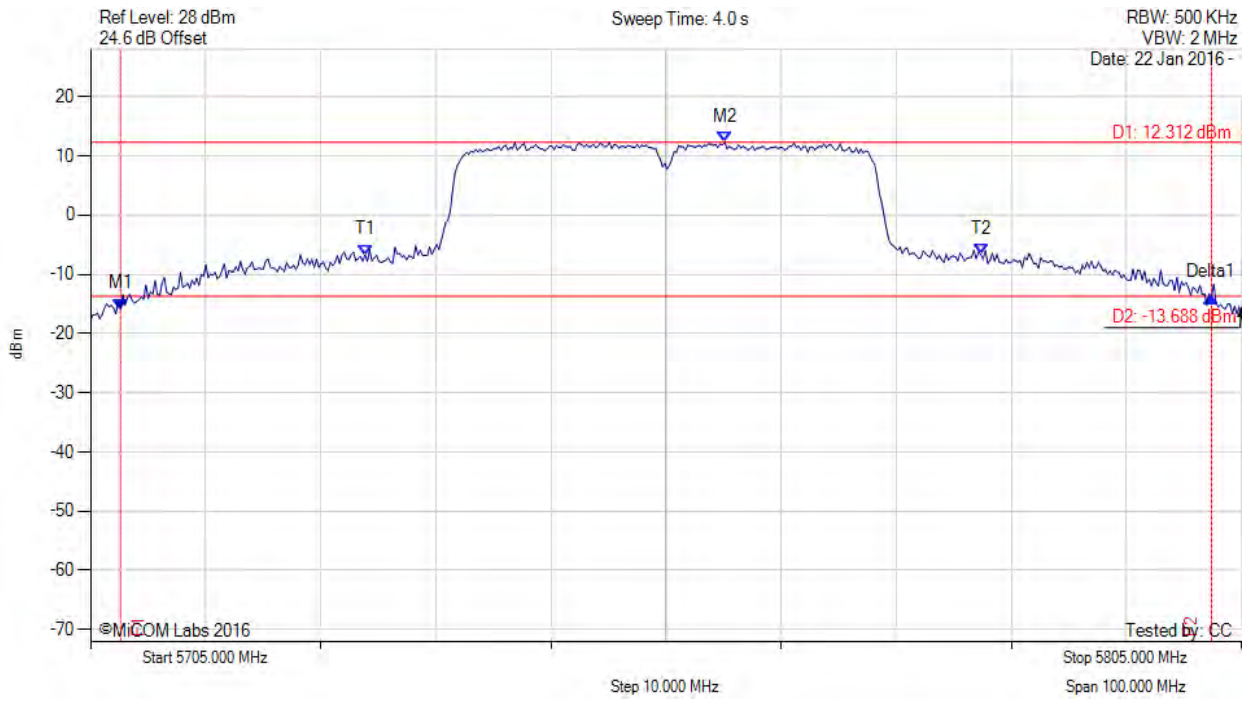
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.605 MHz : -15.856 dBm M2 : 5760.110 MHz : 12.312 dBm Delta1 : 94.790 MHz : 2.054 dB T1 : 5728.848 MHz : -6.738 dBm T2 : 5782.355 MHz : -6.659 dBm OBW : 53.507 MHz	Measured 26 dB Bandwidth: 94.790 MHz Measured 99% Bandwidth: 53.507 MHz

back to matrix

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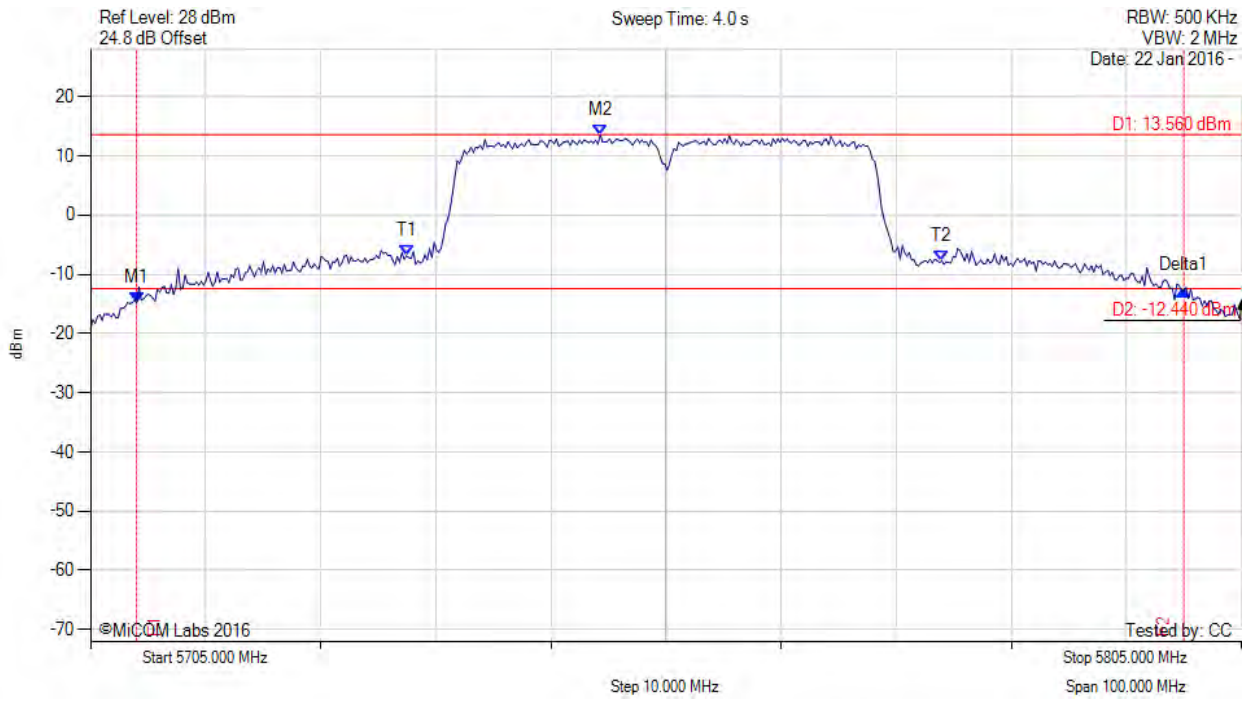
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5709.008 MHz : -14.884 dBm M2 : 5749.289 MHz : 13.560 dBm Delta1 : 90.982 MHz : 2.180 dB T1 : 5732.455 MHz : -6.854 dBm T2 : 5778.948 MHz : -7.747 dBm OBW : 46.493 MHz	Measured 26 dB Bandwidth: 90.982 MHz Measured 99% Bandwidth: 46.493 MHz

back to matrix

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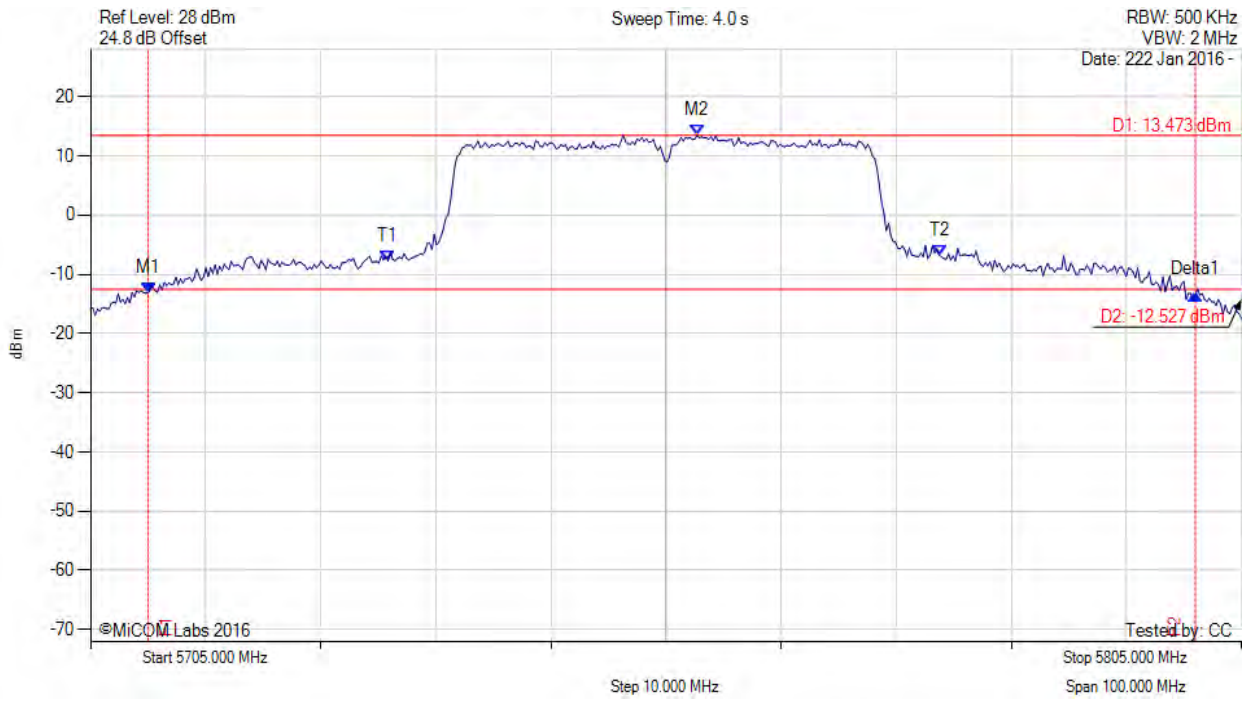
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5710.010 MHz : -13.169 dBm M2 : 5757.705 MHz : 13.473 dBm Delta1 : 90.982 MHz : -0.315 dB T1 : 5730.852 MHz : -7.692 dBm T2 : 5778.747 MHz : -6.749 dBm OBW : 47.896 MHz	Measured 26 dB Bandwidth: 90.982 MHz Measured 99% Bandwidth: 47.896 MHz

back to matrix

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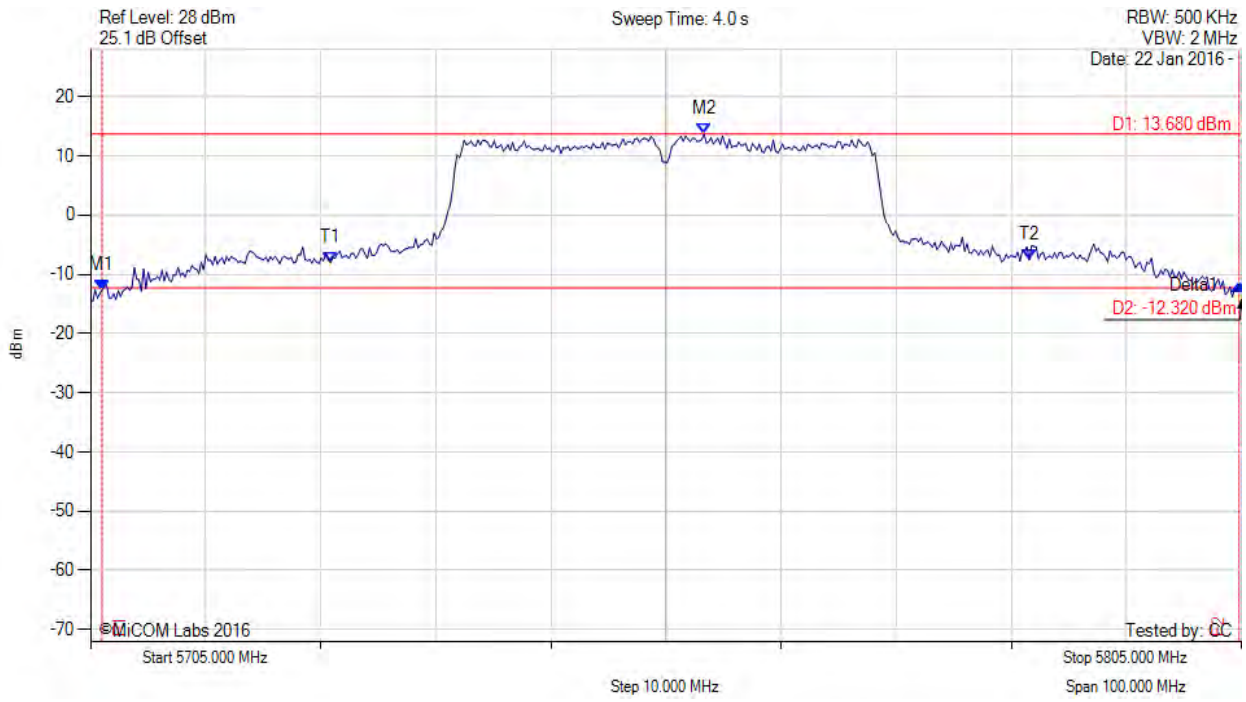
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5706.002 MHz : -12.616 dBm M2 : 5758.307 MHz : 13.680 dBm Delta1 : 98.798 MHz : 0.775 dB T1 : 5725.842 MHz : -8.028 dBm T2 : 5786.563 MHz : -7.542 dBm OBW : 60.721 MHz	Measured 26 dB Bandwidth: 98.798 MHz Measured 99% Bandwidth: 60.721 MHz

back to matrix

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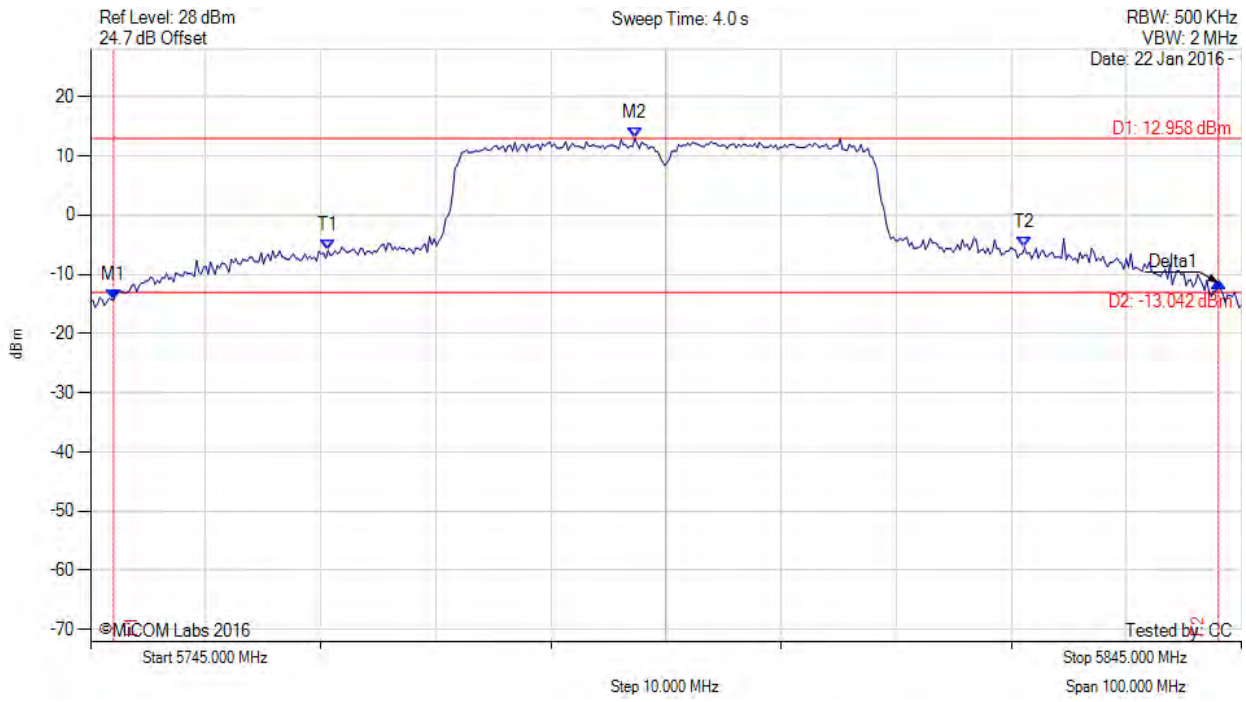
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5747.004 MHz : -14.318 dBm M2 : 5792.295 MHz : 12.958 dBm Delta1 : 95.992 MHz : 2.949 dB T1 : 5765.641 MHz : -5.964 dBm T2 : 5826.162 MHz : -5.504 dBm OBW : 60.521 MHz	Measured 26 dB Bandwidth: 95.992 MHz Measured 99% Bandwidth: 60.521 MHz

back to matrix

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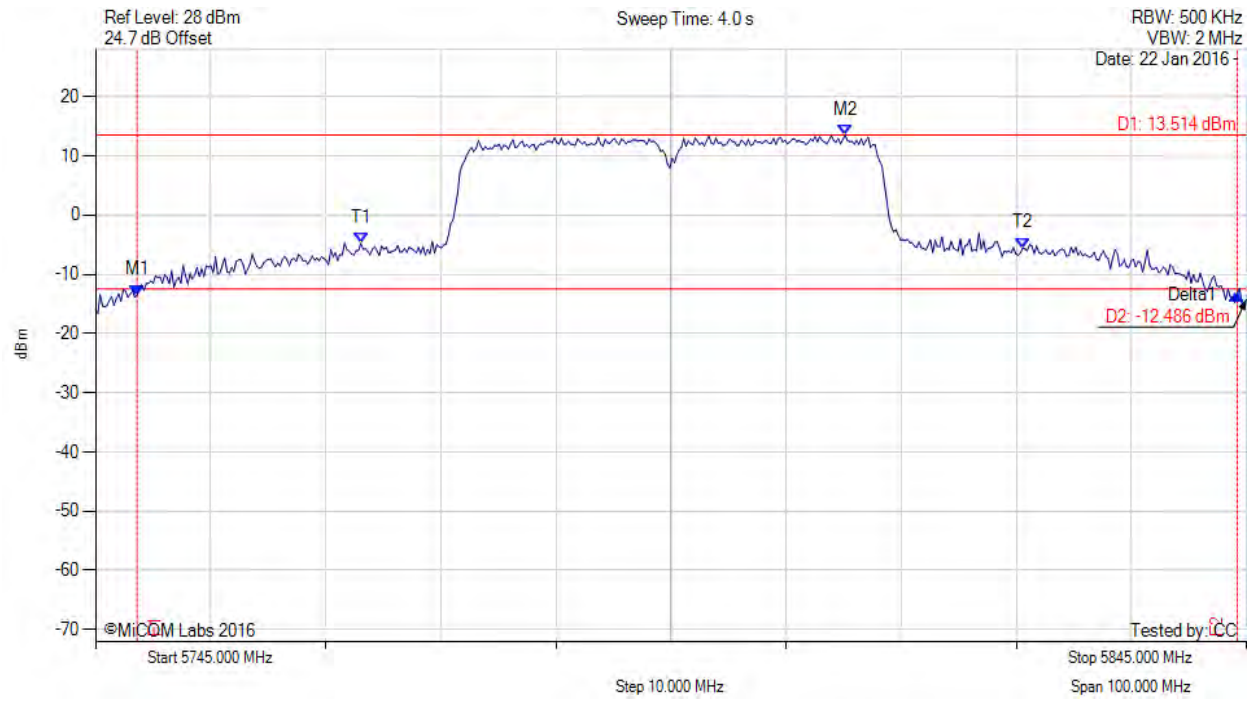
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5748.607 MHz : -13.519 dBm M2 : 5810.130 MHz : 13.514 dBm Delta1 : 95.591 MHz : 0.055 dB T1 : 5768.046 MHz : -4.790 dBm T2 : 5825.561 MHz : -5.569 dBm OBW : 57.515 MHz	Measured 26 dB Bandwidth: 95.591 MHz Measured 99% Bandwidth: 57.515 MHz

back to matrix

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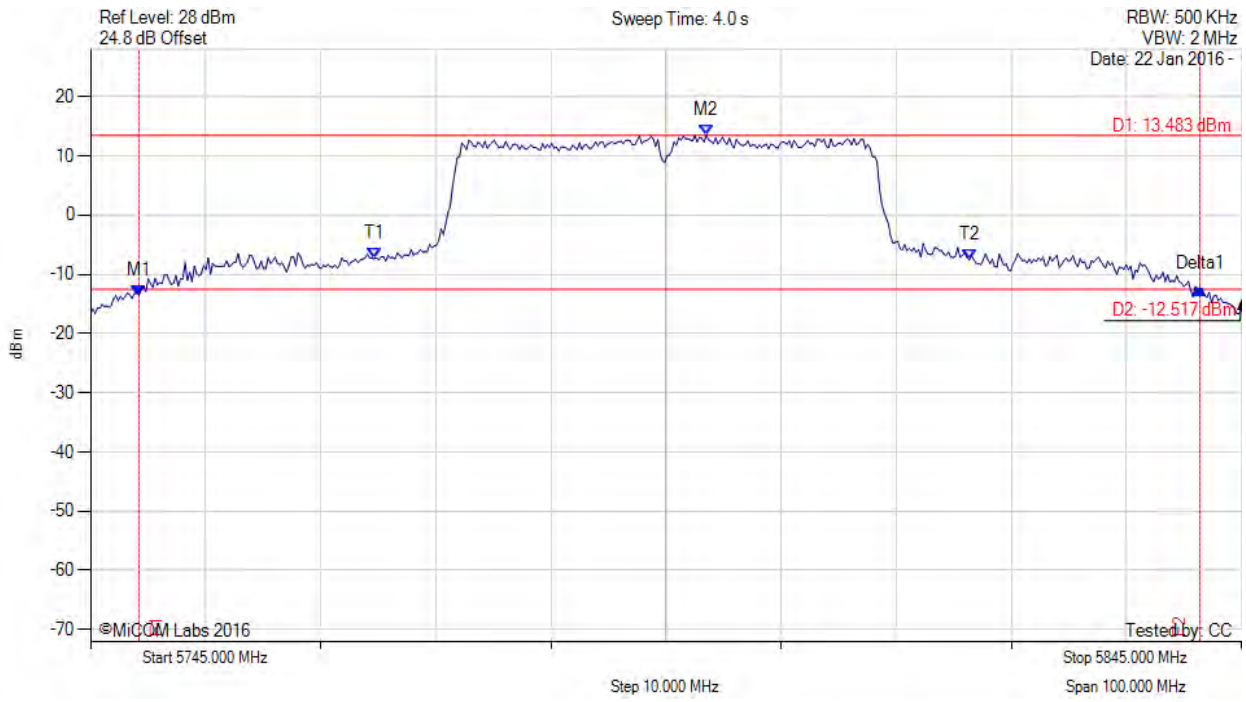
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5749.208 MHz : -13.531 dBm M2 : 5798.507 MHz : 13.483 dBm Delta1 : 92.184 MHz : 1.143 dB T1 : 5769.649 MHz : -7.349 dBm T2 : 5821.353 MHz : -7.548 dBm OBW : 51.703 MHz	Measured 26 dB Bandwidth: 92.184 MHz Measured 99% Bandwidth: 51.703 MHz

back to matrix

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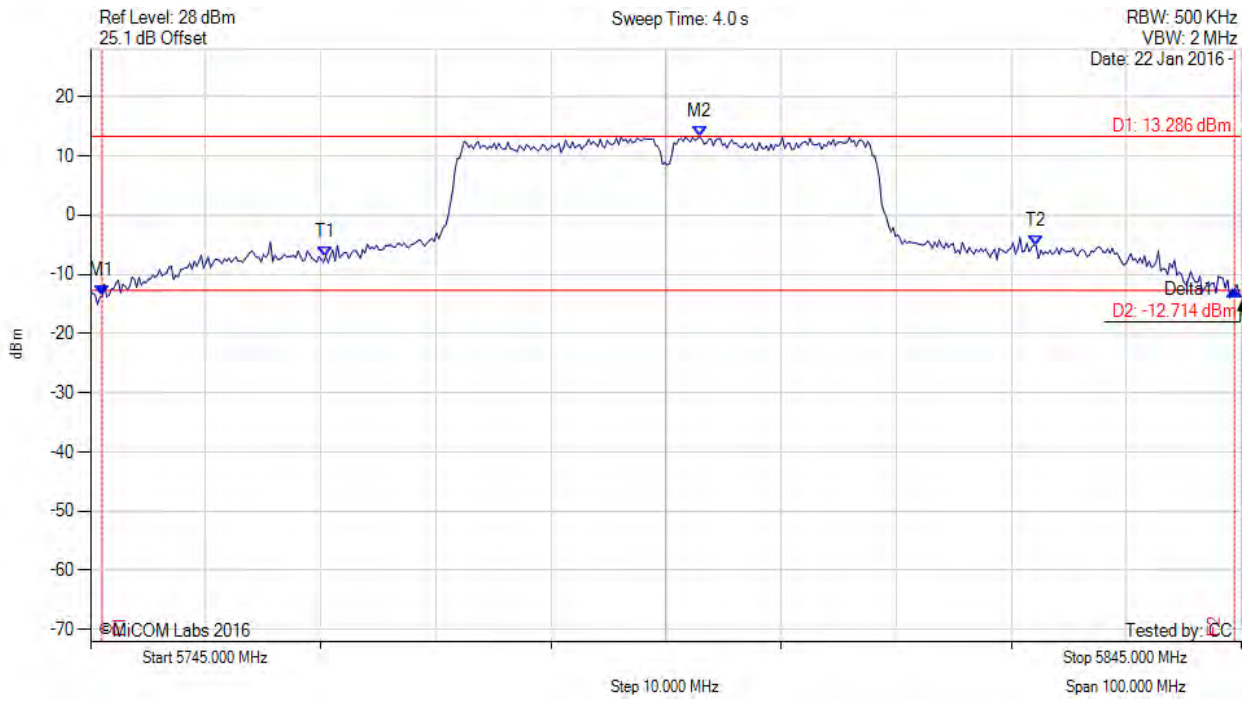
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5746.002 MHz : -13.708 dBm M2 : 5797.906 MHz : 13.286 dBm Delta1 : 98.397 MHz : 1.088 dB T1 : 5765.441 MHz : -6.999 dBm T2 : 5827.164 MHz : -5.211 dBm OBW : 61.723 MHz	Measured 26 dB Bandwidth: 98.397 MHz Measured 99% Bandwidth: 61.723 MHz

back to matrix

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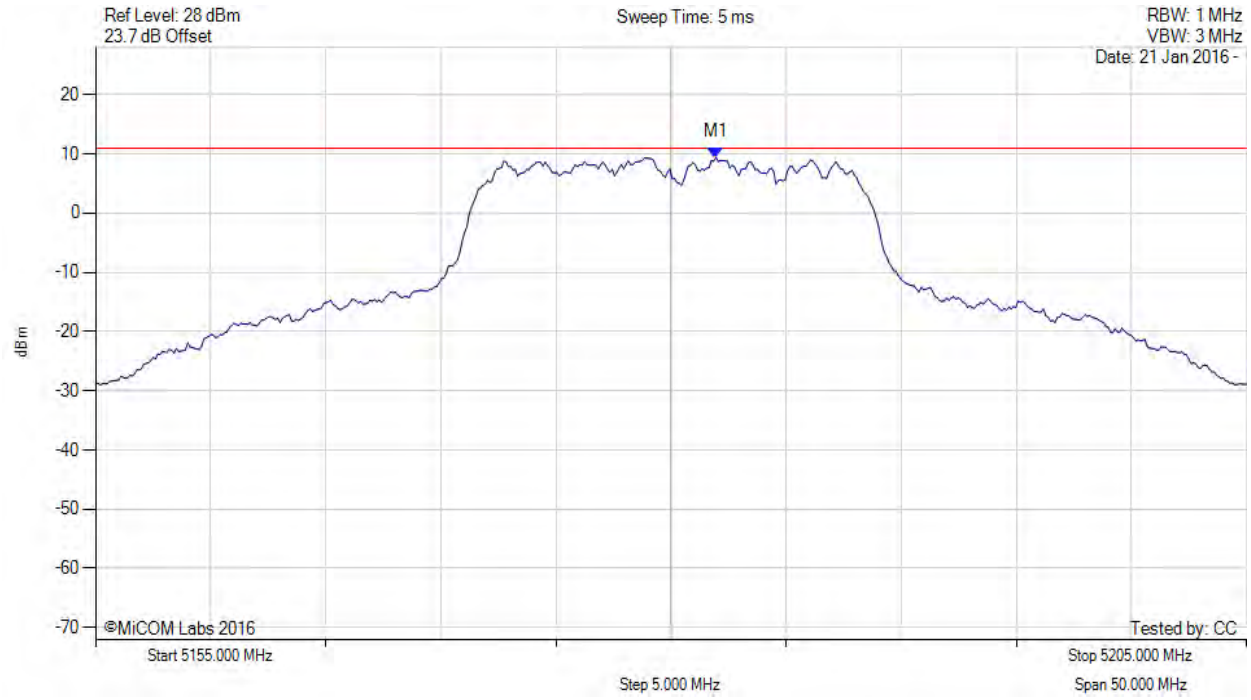
A.2. Power Spectral Density

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



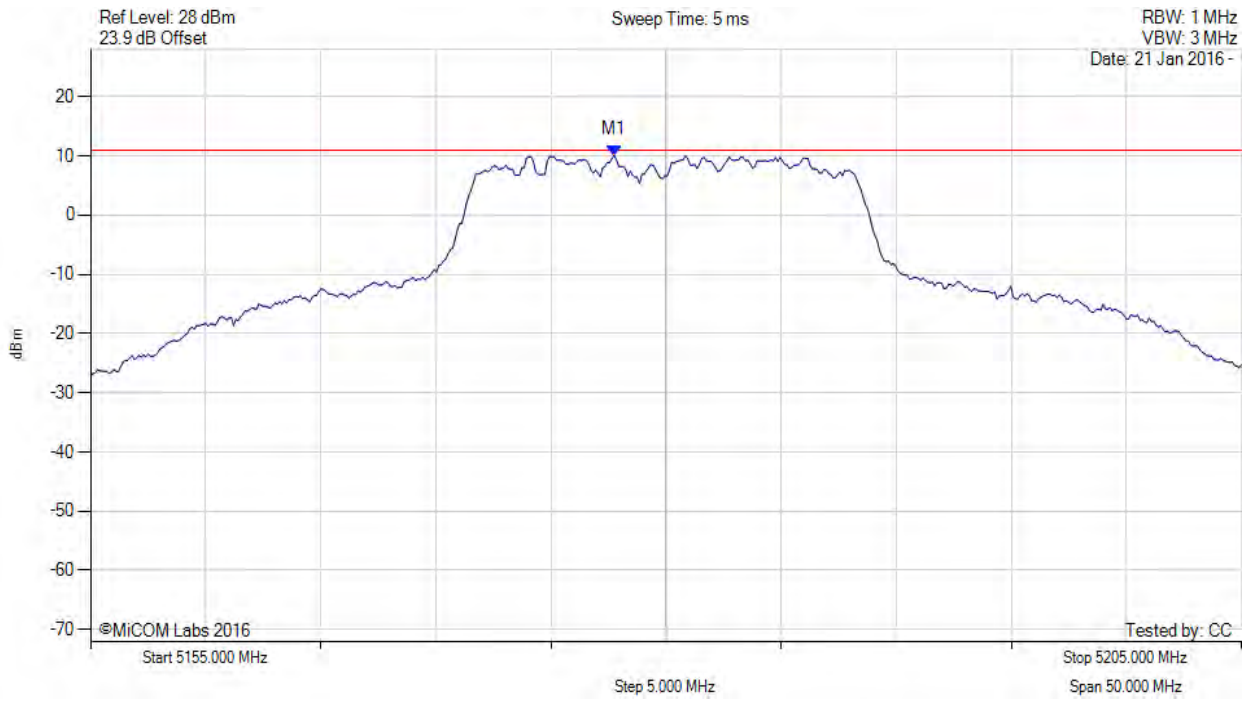
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5181.954 MHz : 9.382 dBm	Limit: ≤ 10.980 dBm

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: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5177.745 MHz : 10.102 dBm	Limit: ≤ 10.980 dBm

back to matrix

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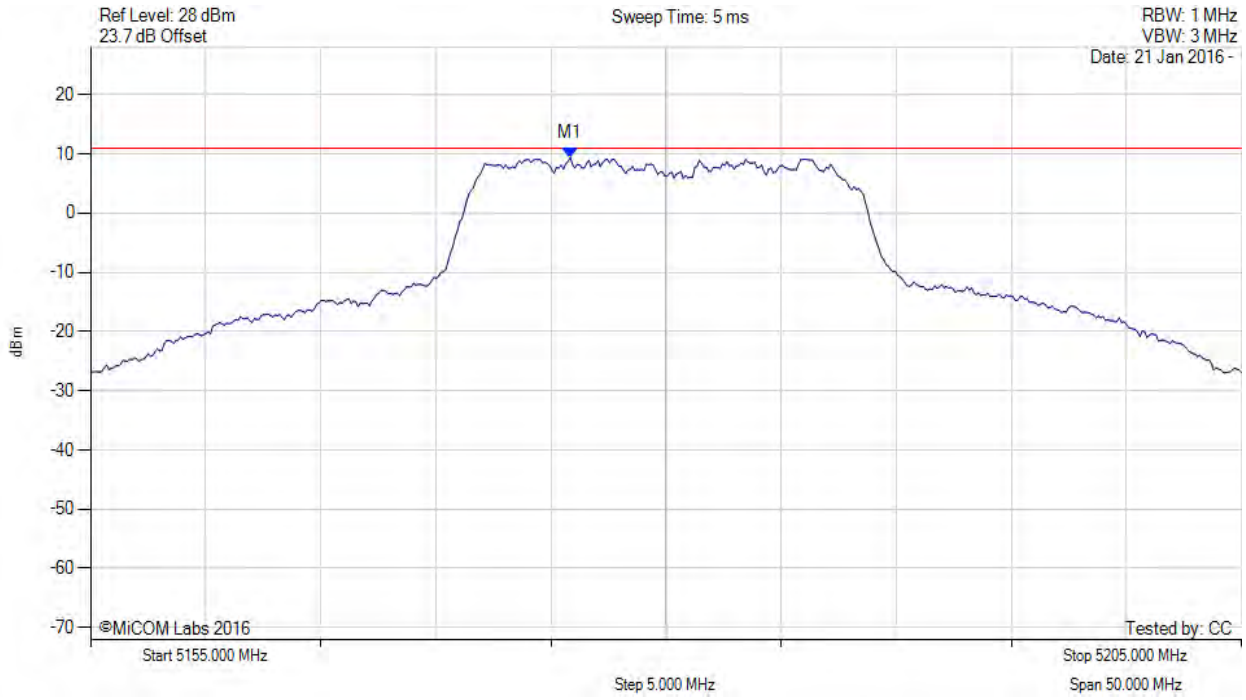
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5175.842 MHz : 9.358 dBm	Limit: ≤ 10.980 dBm

back to matrix

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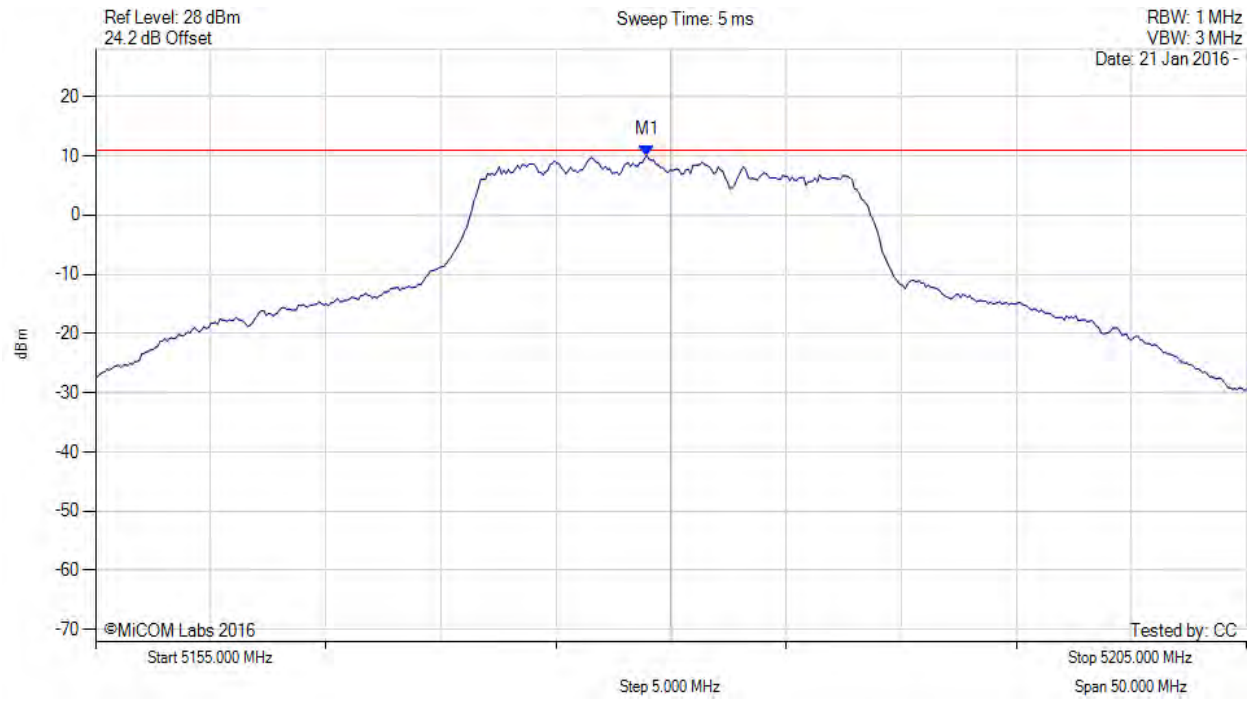
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5178.948 MHz : 10.094 dBm	Limit: ≤ 10.980 dBm

back to matrix

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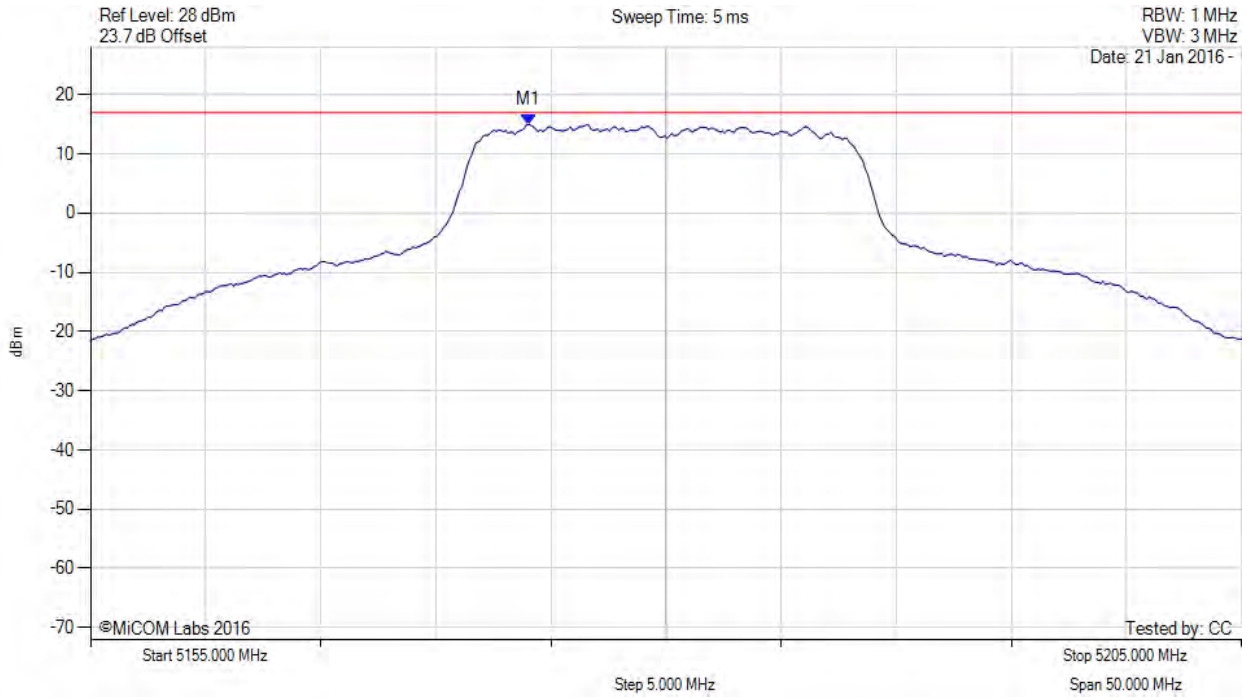
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5174.000 MHz : 14.971 dBm M1 + DCCF : 5174.000 MHz : 15.148 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 17.0 dBm Margin: -1.9 dB

back to matrix

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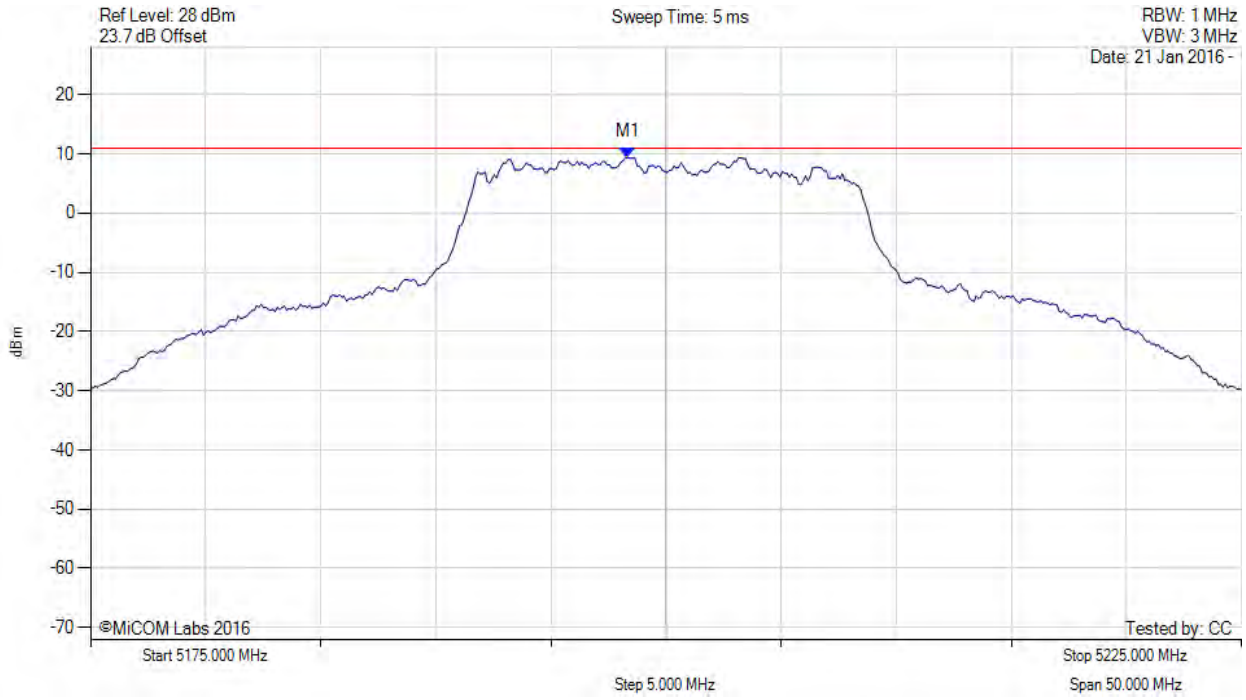
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5198.347 MHz : 9.396 dBm	Limit: ≤ 10.980 dBm

back to matrix

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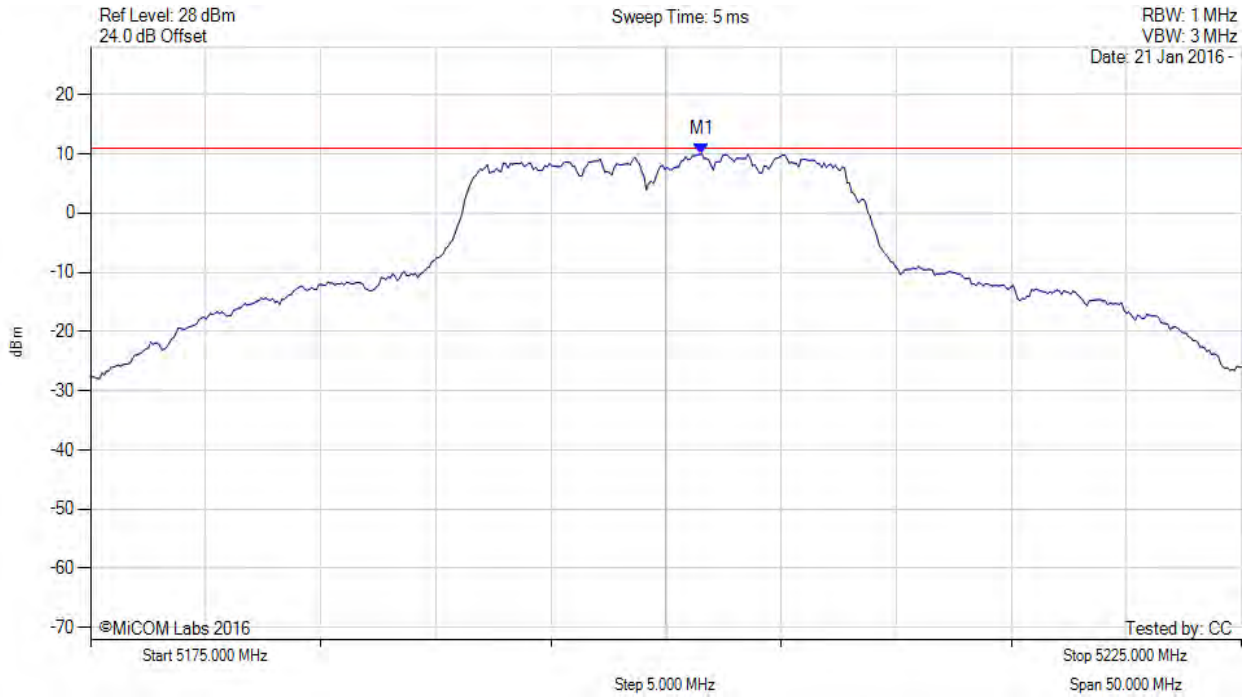
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5201.553 MHz : 10.013 dBm	Channel Frequency: 5200.00 MHz

back to matrix

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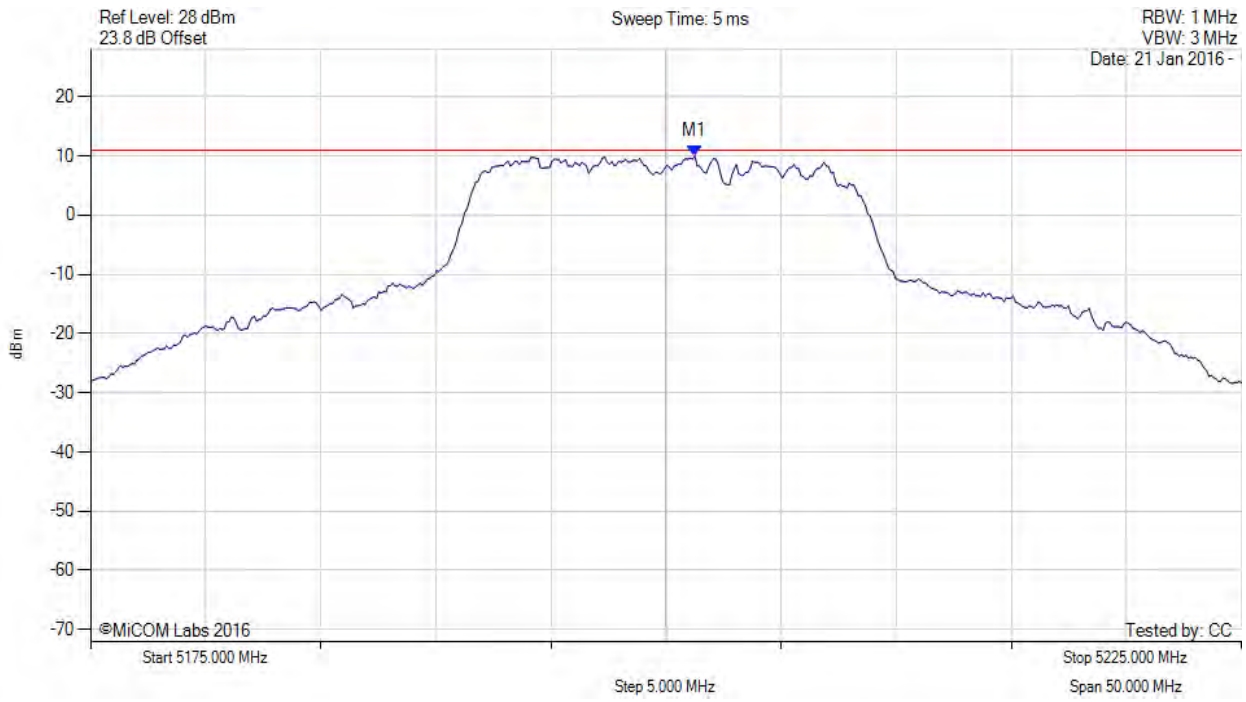
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5201.253 MHz : 10.002 dBm	Limit: ≤ 10.980 dBm

back to matrix

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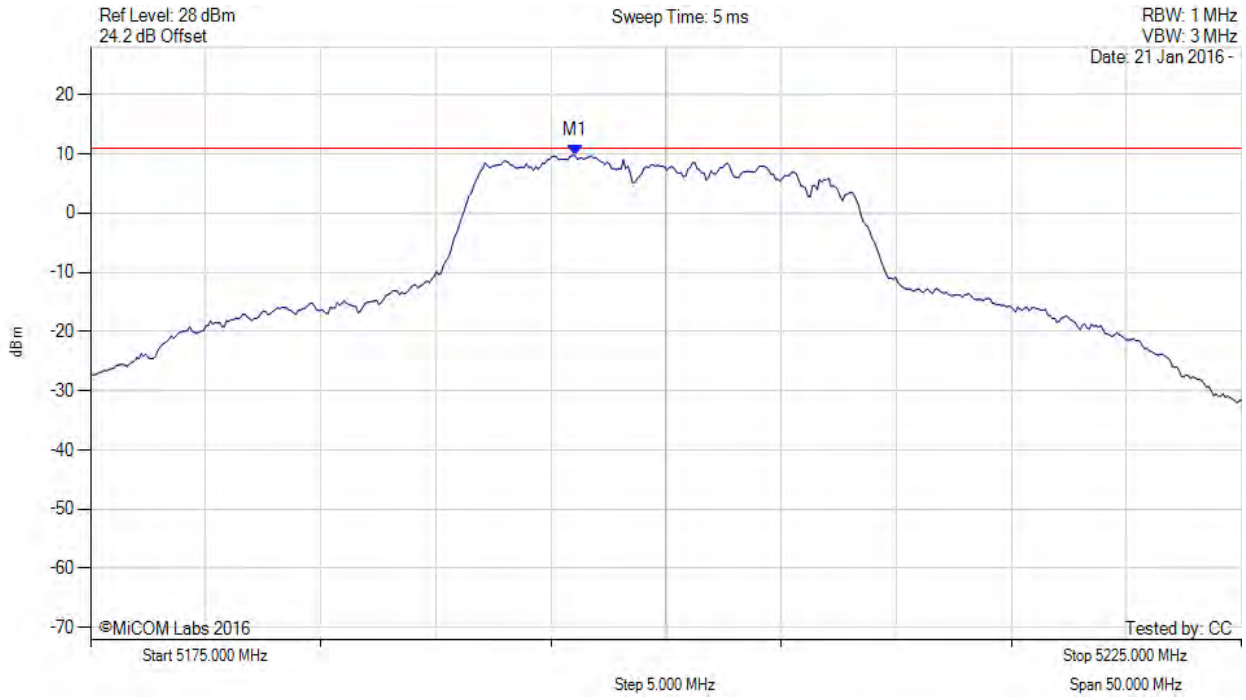
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5196.042 MHz : 9.722 dBm	Limit: ≤ 10.980 dBm

back to matrix

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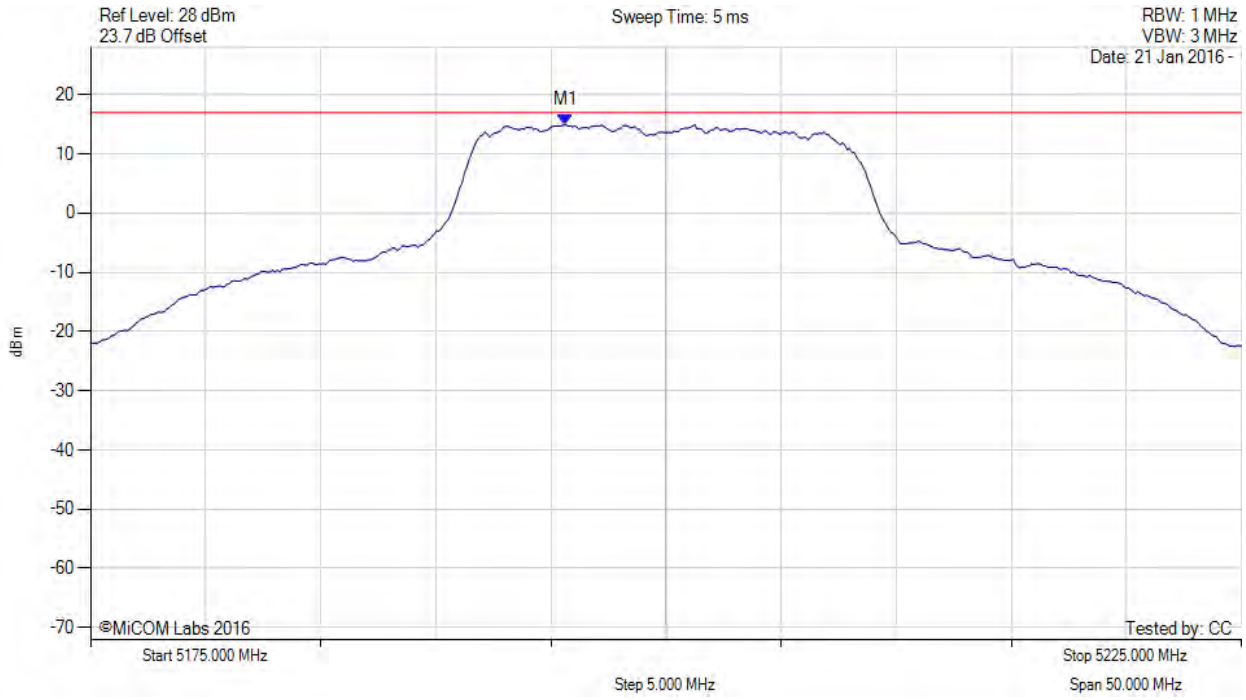
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5195.600 MHz : 14.917 dBm M1 + DCCF : 5195.600 MHz : 15.094 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 17.0 dBm Margin: -1.9 dB

back to matrix

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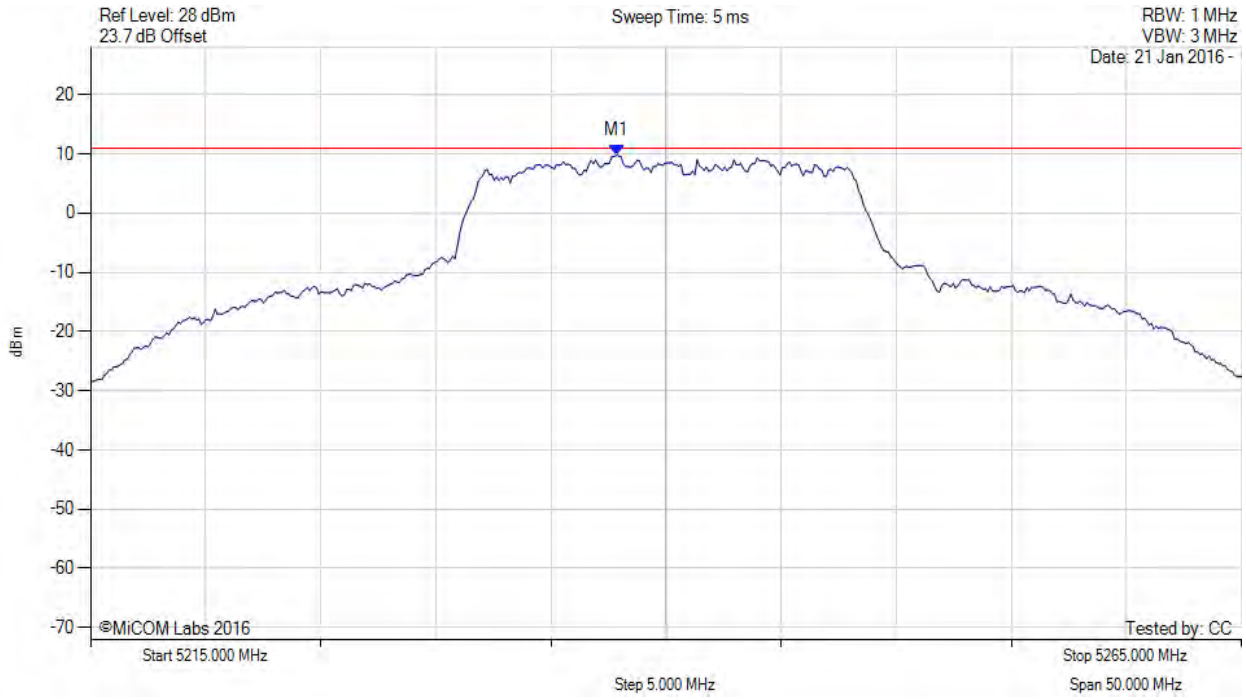
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5237.846 MHz : 9.732 dBm	Limit: ≤ 10.980 dBm

back to matrix

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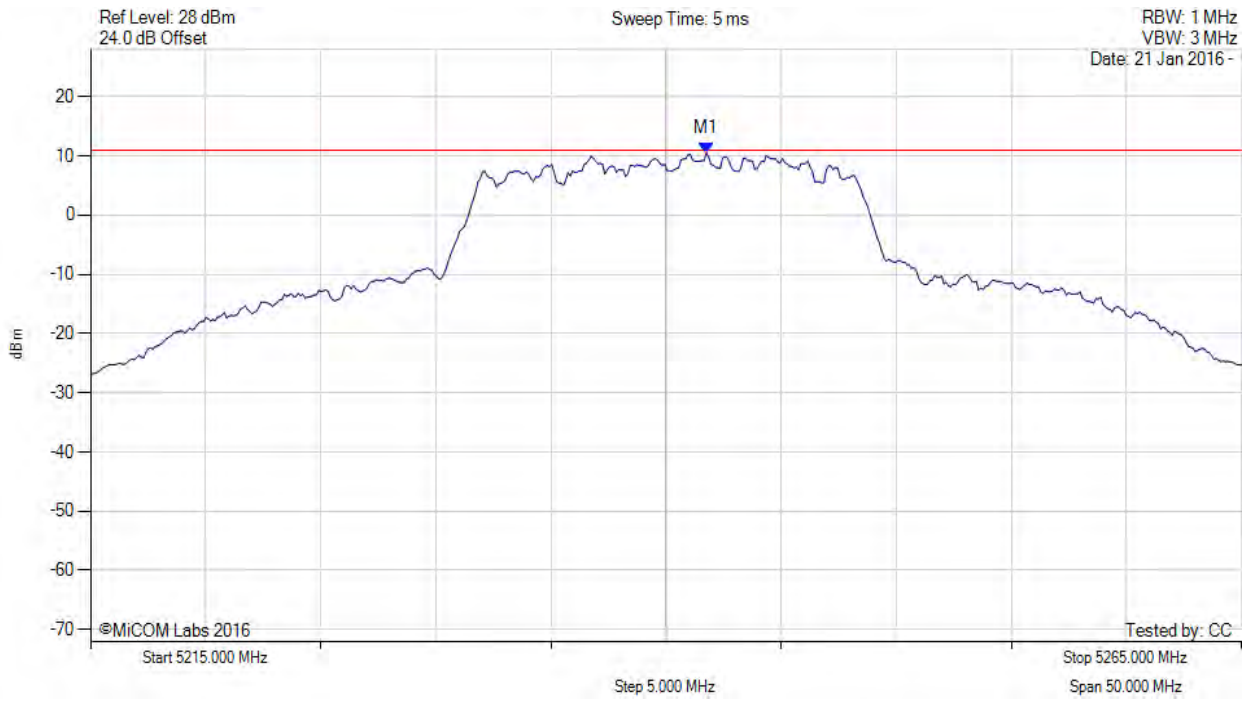
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5241.754 MHz : 10.486 dBm	Limit: ≤ 10.980 dBm

back to matrix

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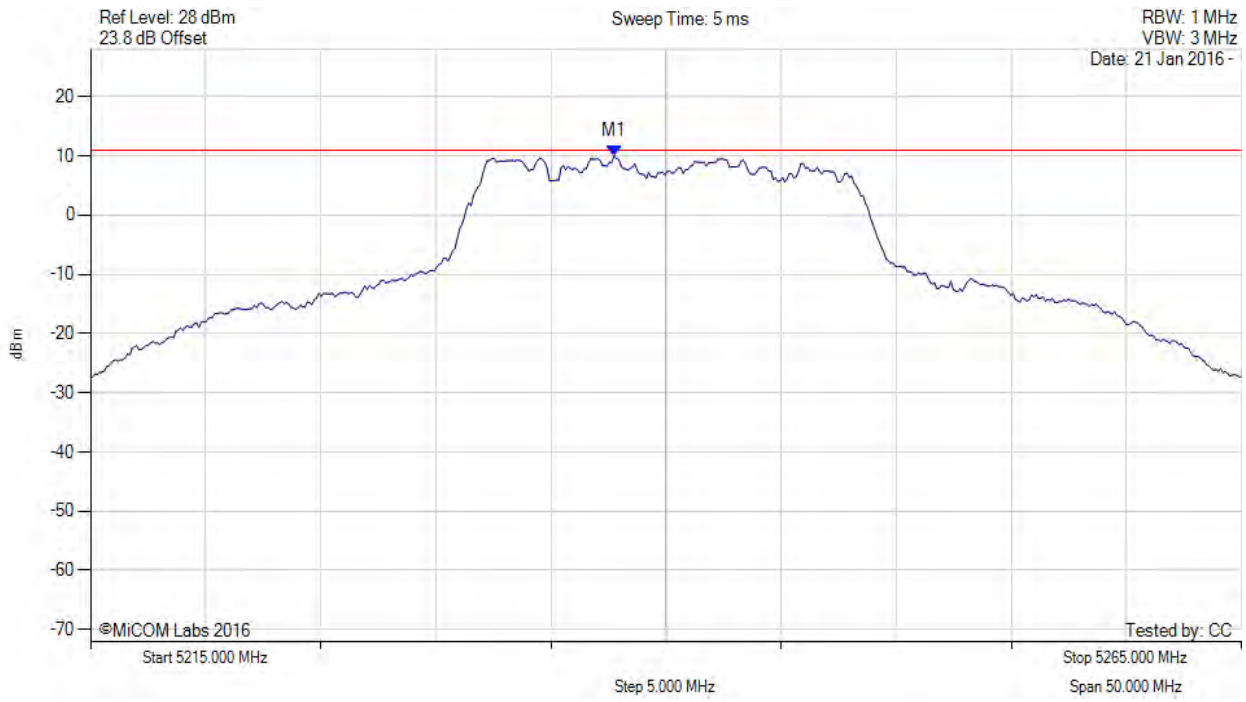
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5237.745 MHz : 10.058 dBm	Limit: ≤ 10.980 dBm

back to matrix

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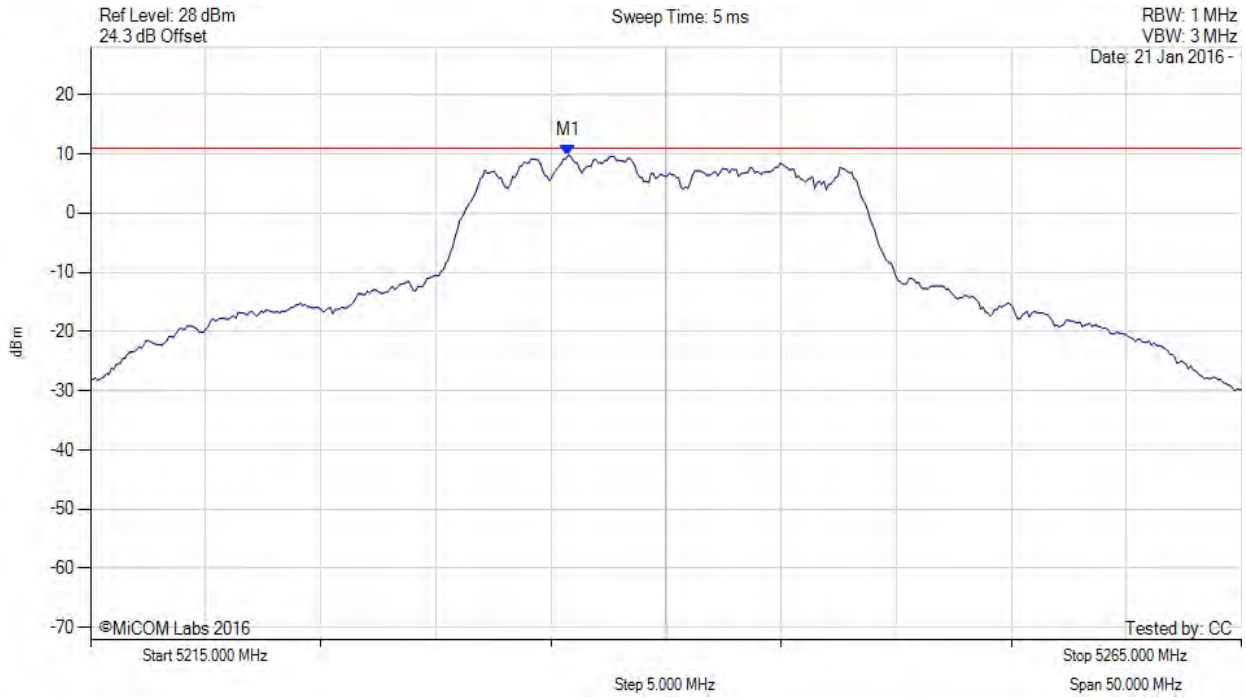
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5235.741 MHz : 9.736 dBm	Limit: ≤ 10.980 dBm

back to matrix

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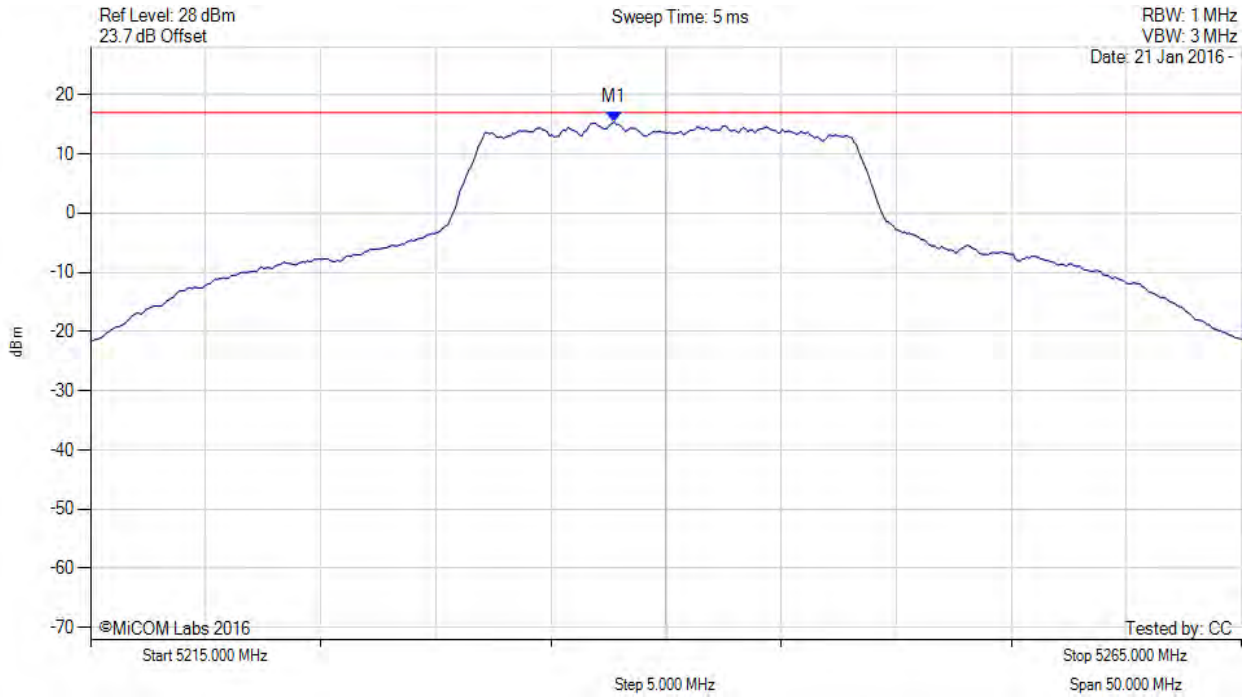
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5237.700 MHz : 15.409 dBm M1 + DCCF : 5237.700 MHz : 15.586 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 17.0 dBm Margin: -1.4 dB

back to matrix

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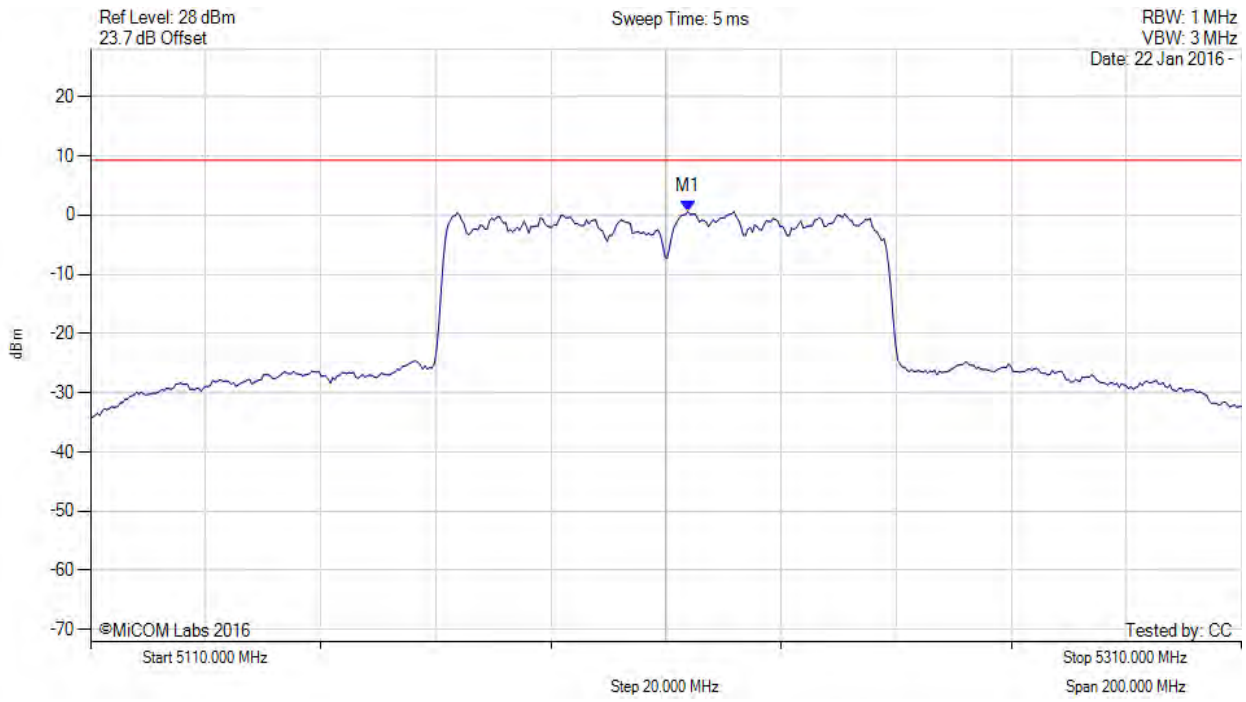
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5213.808 MHz : 0.603 dBm	Limit: ≤ 9.280 dBm

back to matrix

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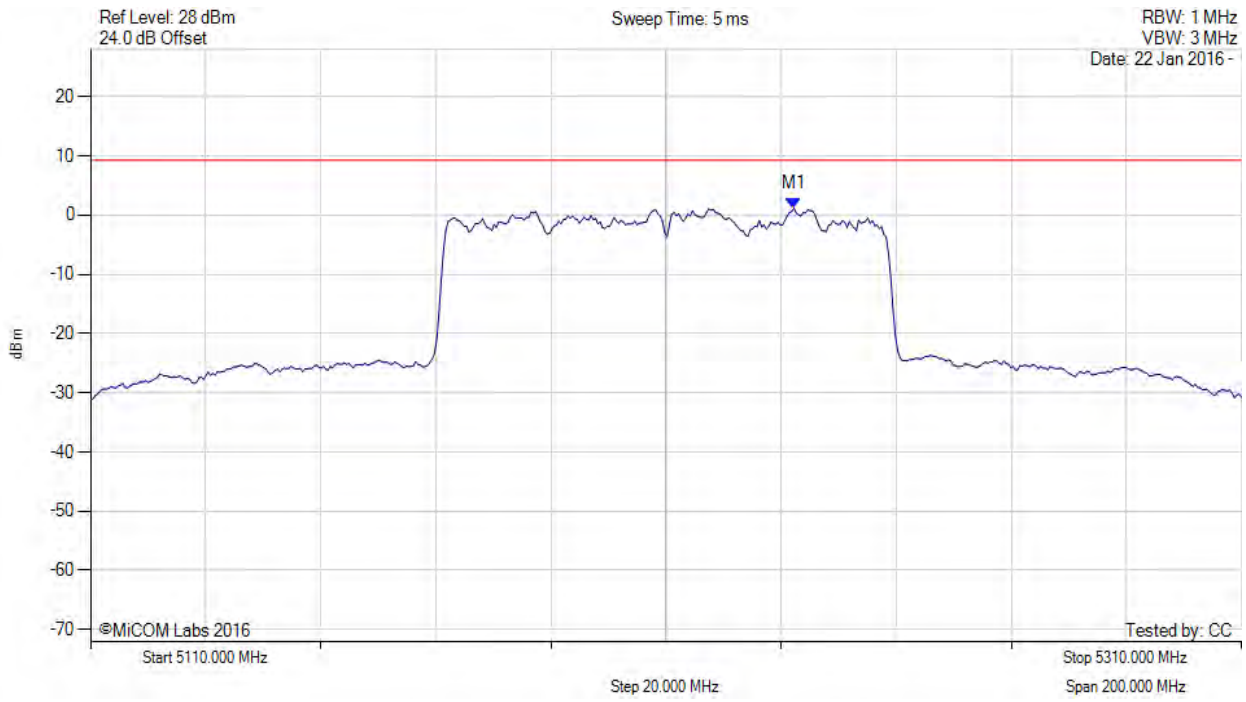
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5232.244 MHz : 1.128 dBm	Limit: ≤ 9.280 dBm

back to matrix

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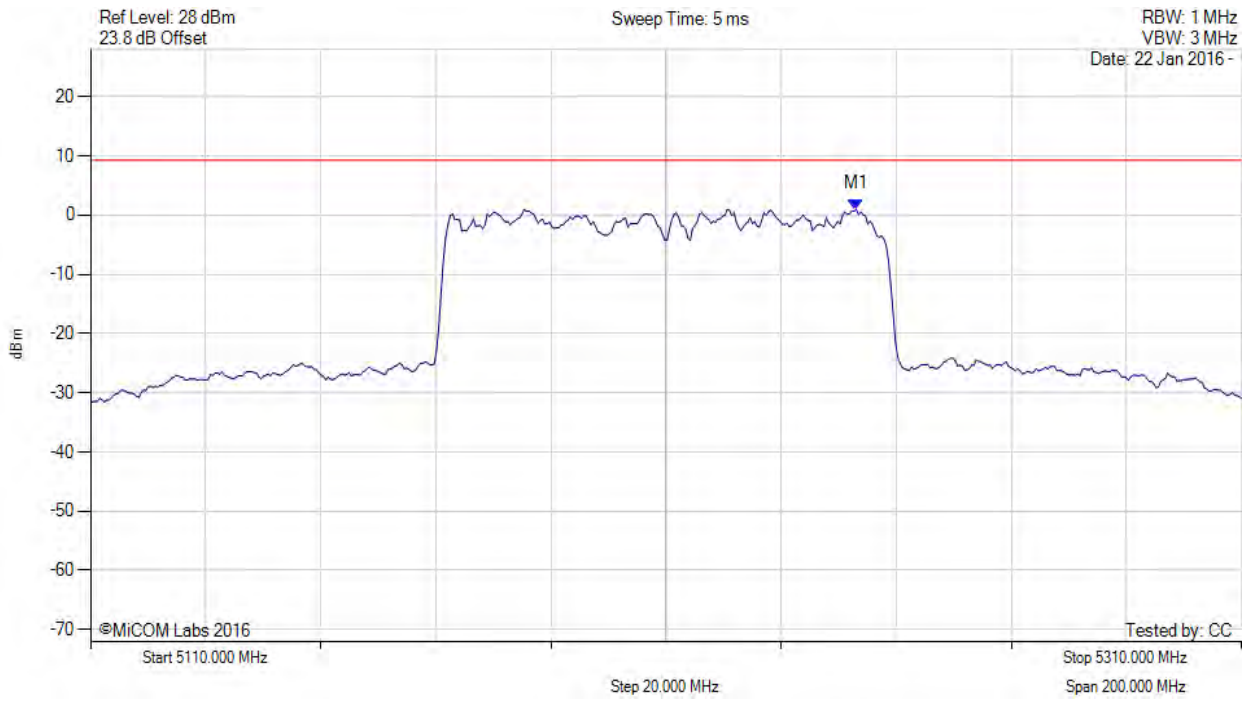
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5243.066 MHz : 0.977 dBm	Limit: ≤ 9.280 dBm

back to matrix

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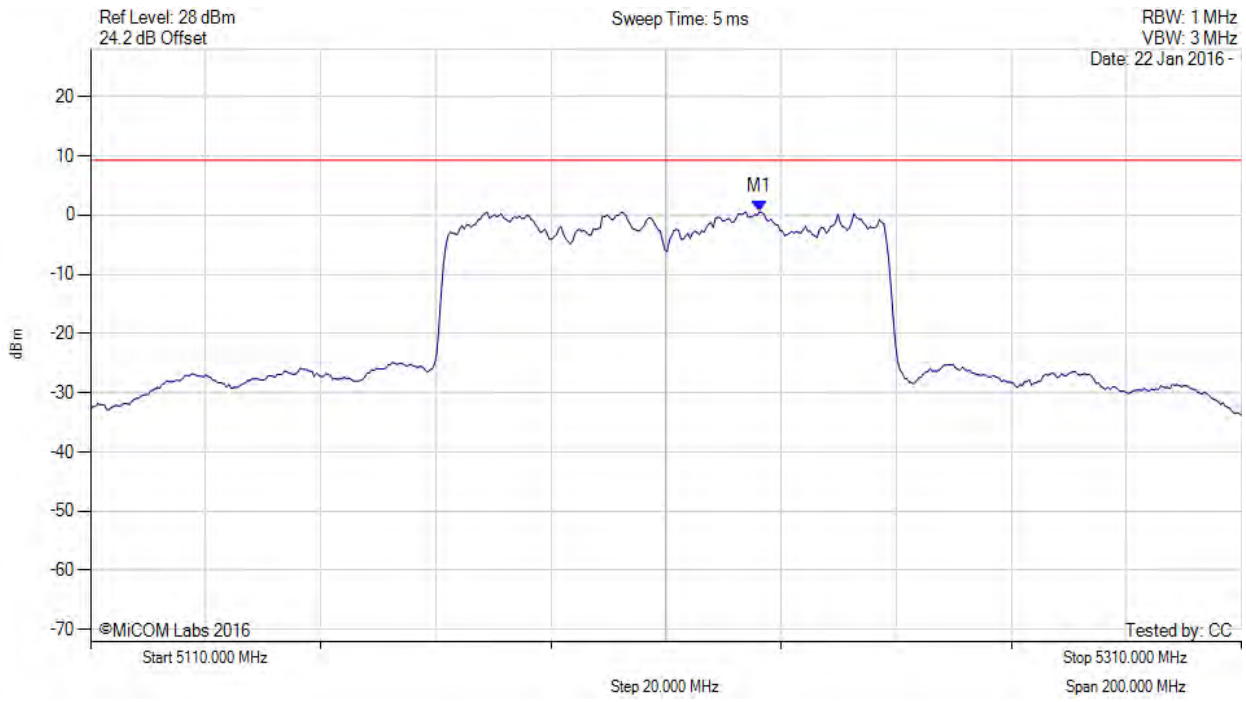
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5226.232 MHz : 0.556 dBm	Limit: ≤ 9.280 dBm

back to matrix

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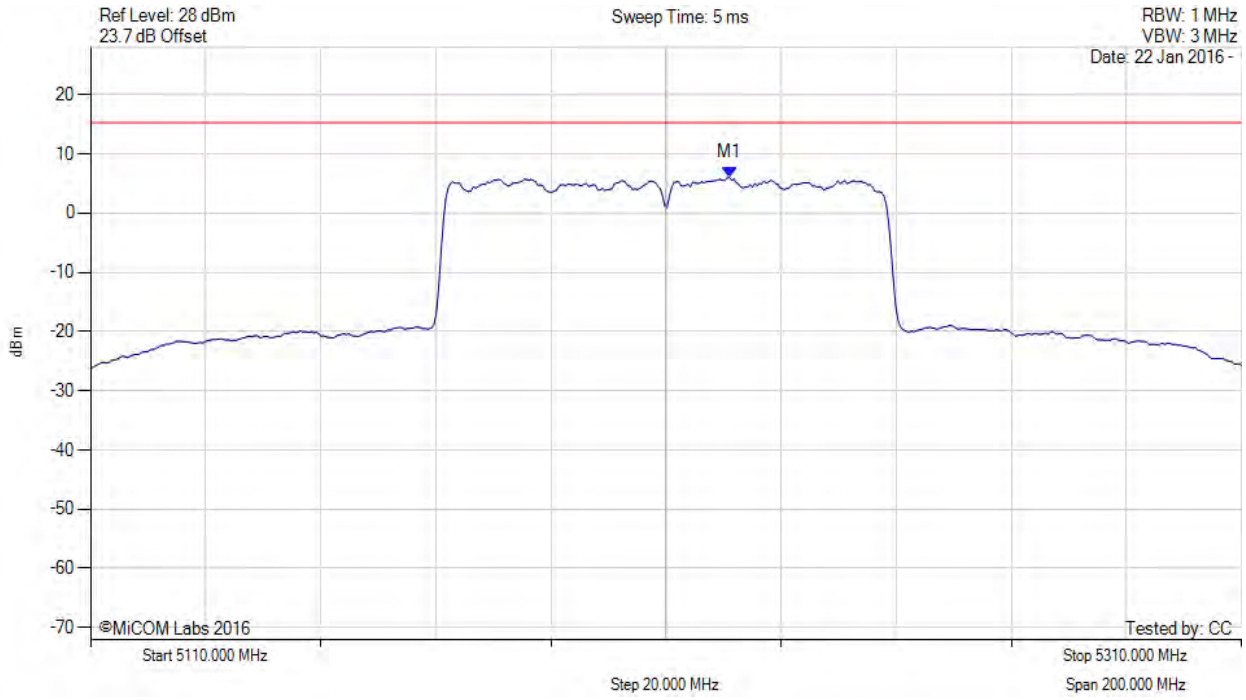
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5221.000 MHz : 6.044 dBm M1 + DCCF : 5221.000 MHz : 6.454 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 15.3 dBm Margin: -8.9 dB

back to matrix

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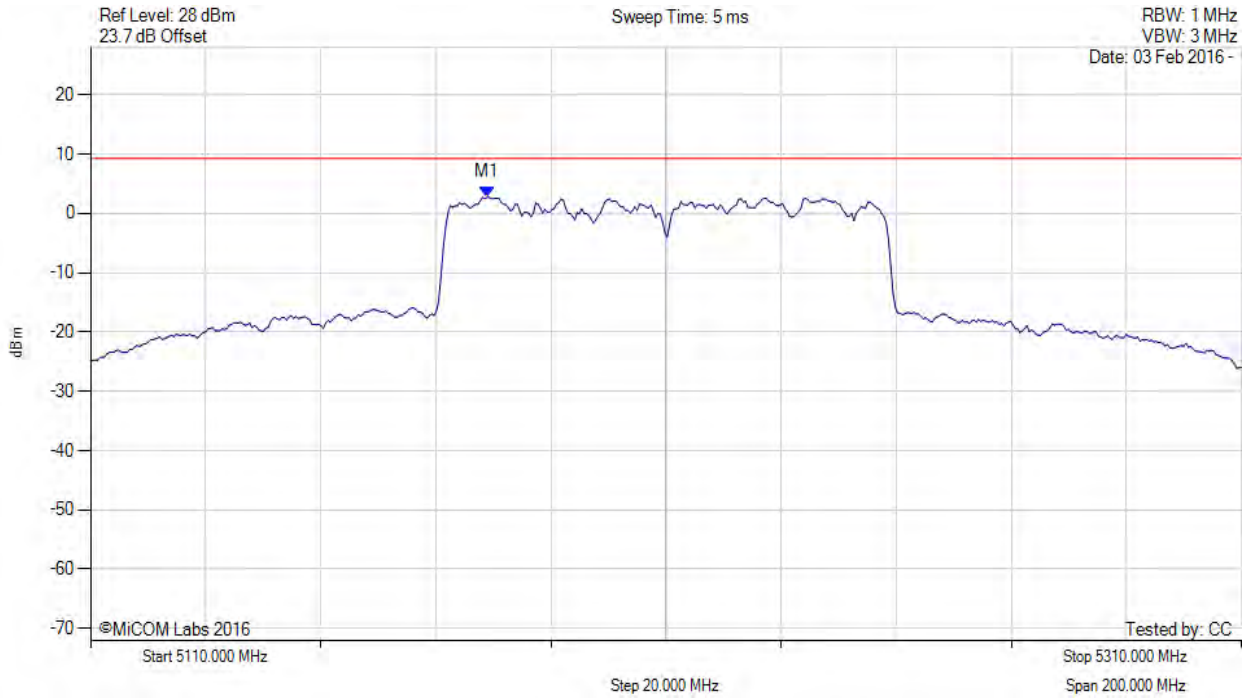
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5178.938 MHz : 2.728 dBm	Limit: ≤ 9.280 dBm

back to matrix

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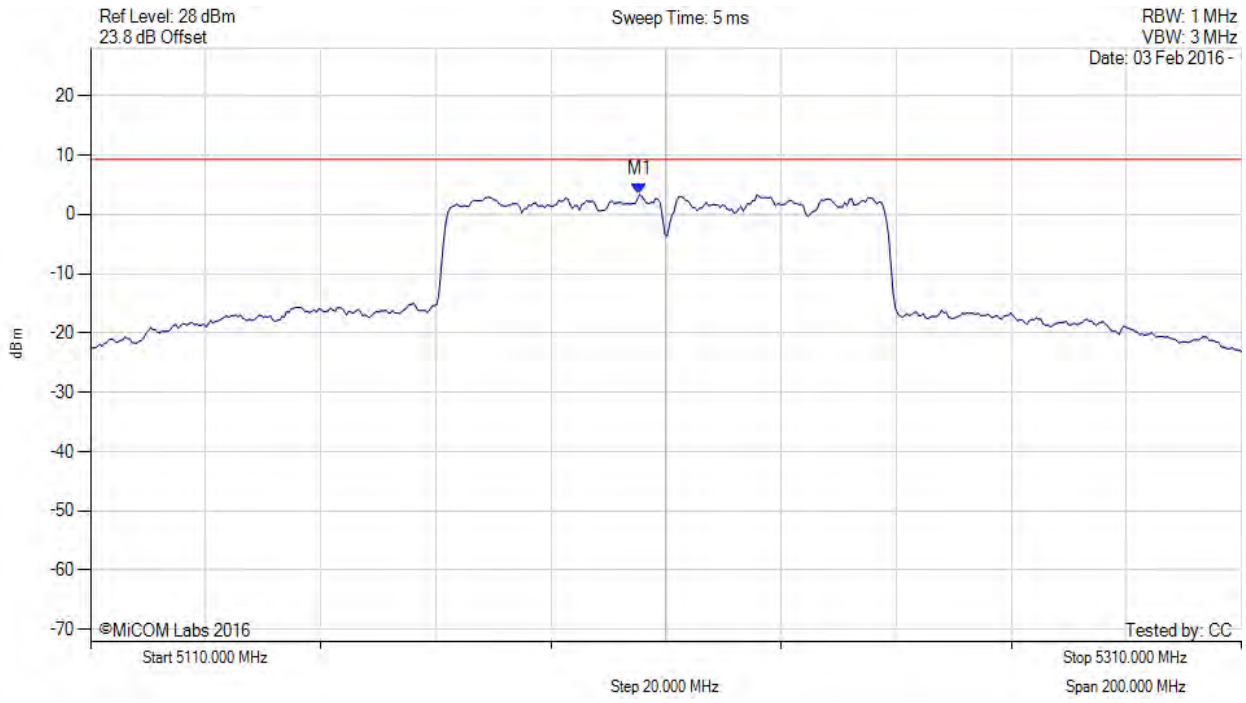
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5205.391 MHz : 3.371 dBm	Limit: ≤ 9.280 dBm

back to matrix

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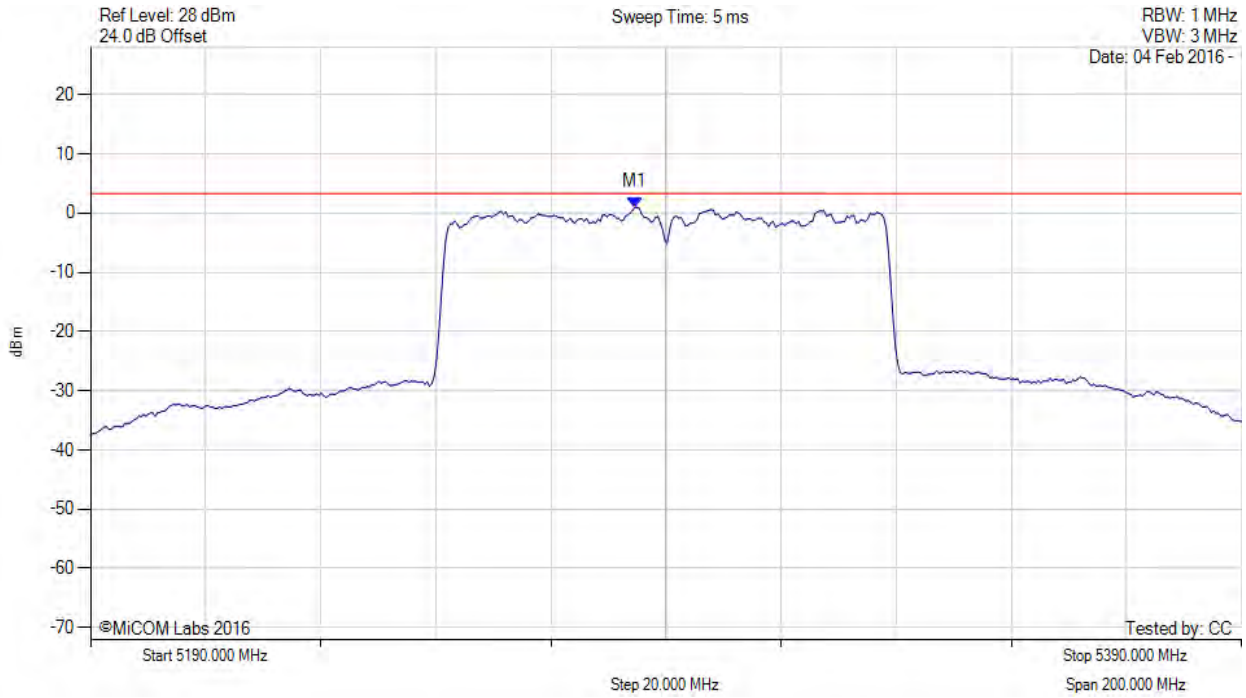
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5284.589 MHz : 0.977 dBm	Limit: ≤ 3.280 dBm

back to matrix

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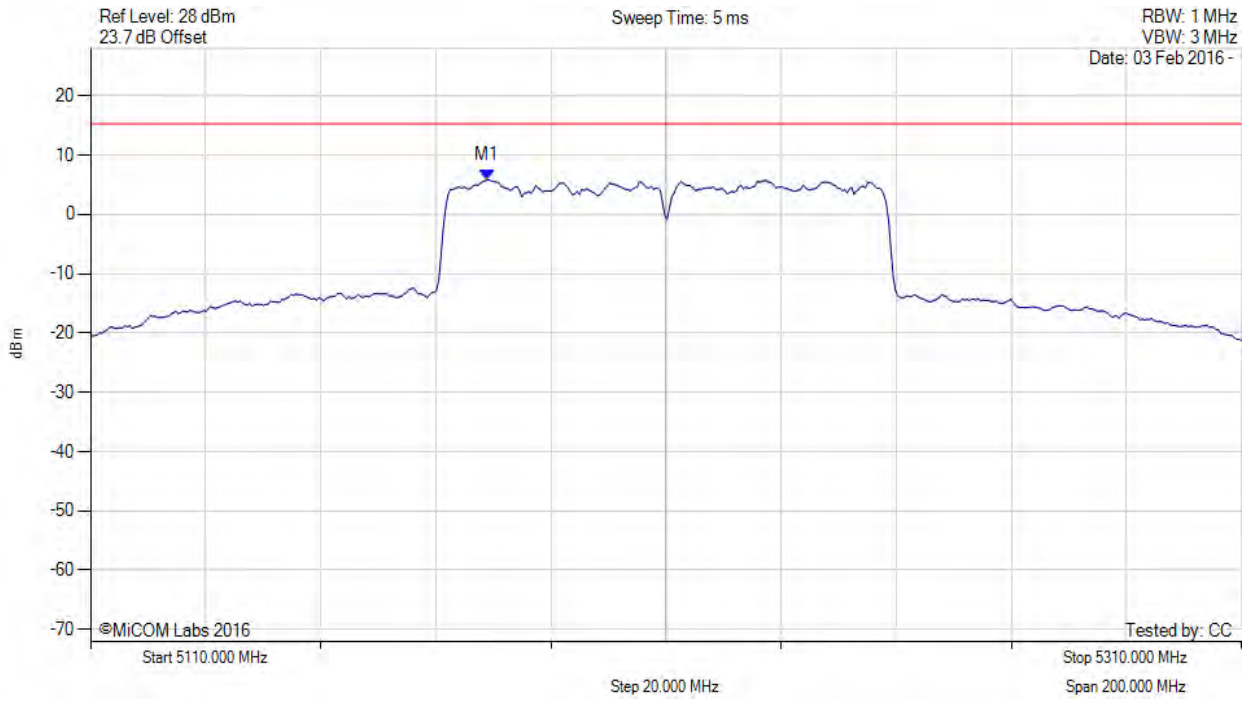
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5178.900 MHz : 5.819 dBm M1 + DCCF : 5178.900 MHz : 6.229 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 15.3 dBm Margin: -9.1 dB

back to matrix

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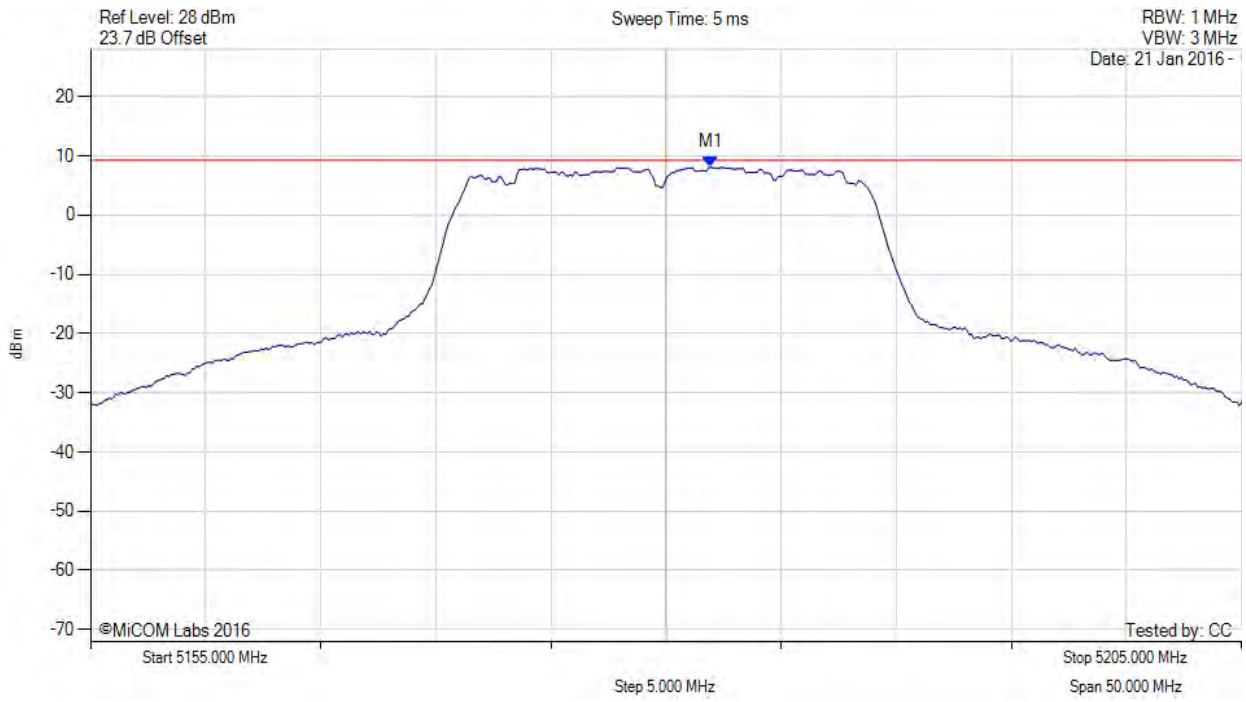
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5181.954 MHz : 8.083 dBm	Limit: ≤ 9.280 dBm

back to matrix

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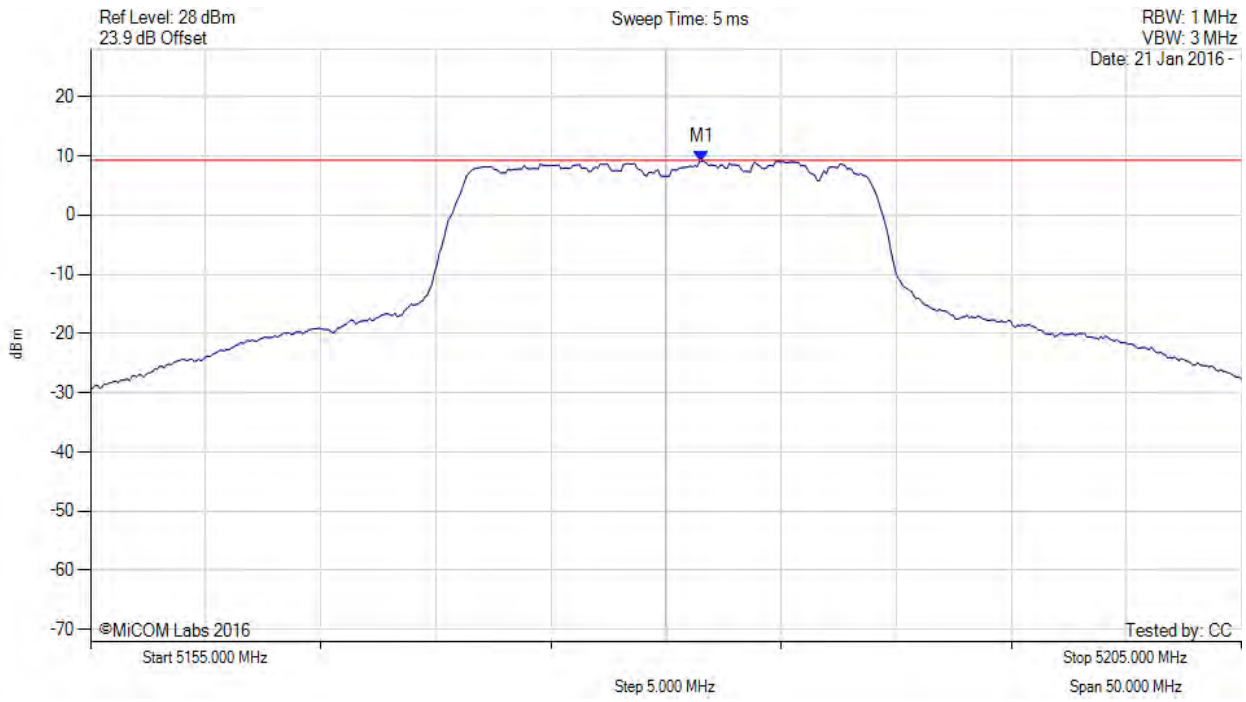
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5181.553 MHz : 9.098 dBm	Limit: ≤ 9.280 dBm

back to matrix

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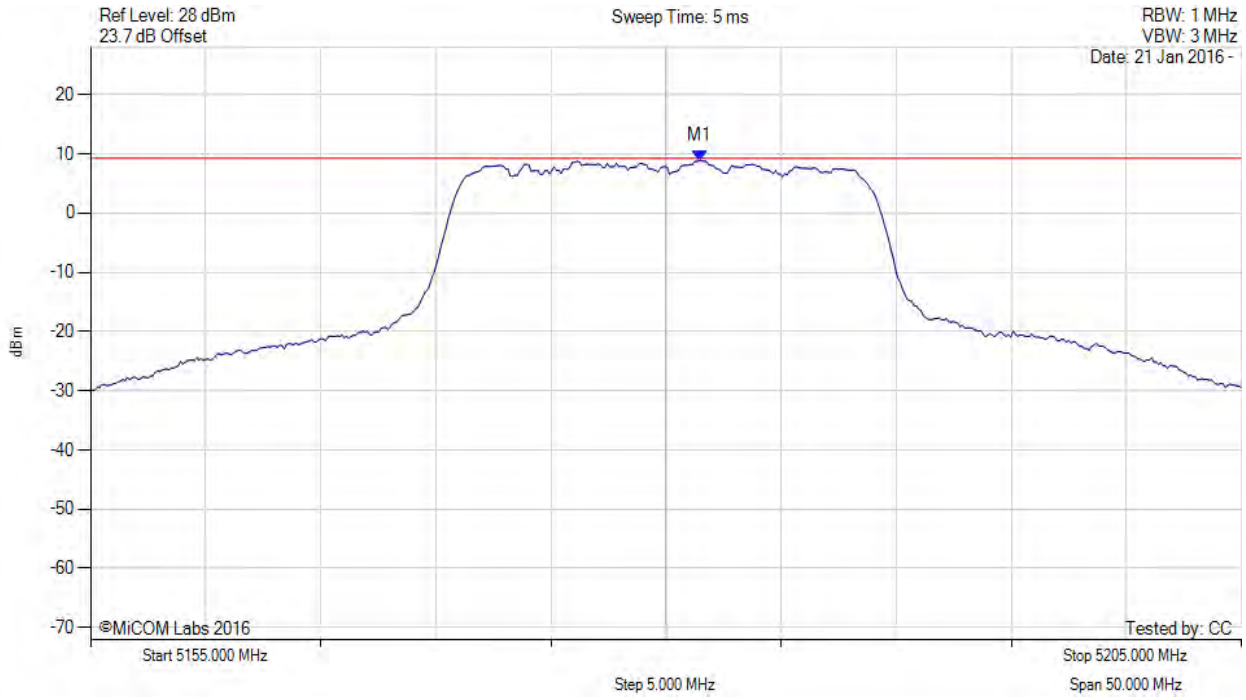
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5181.453 MHz : 8.849 dBm	Limit: ≤ 9.280 dBm

back to matrix

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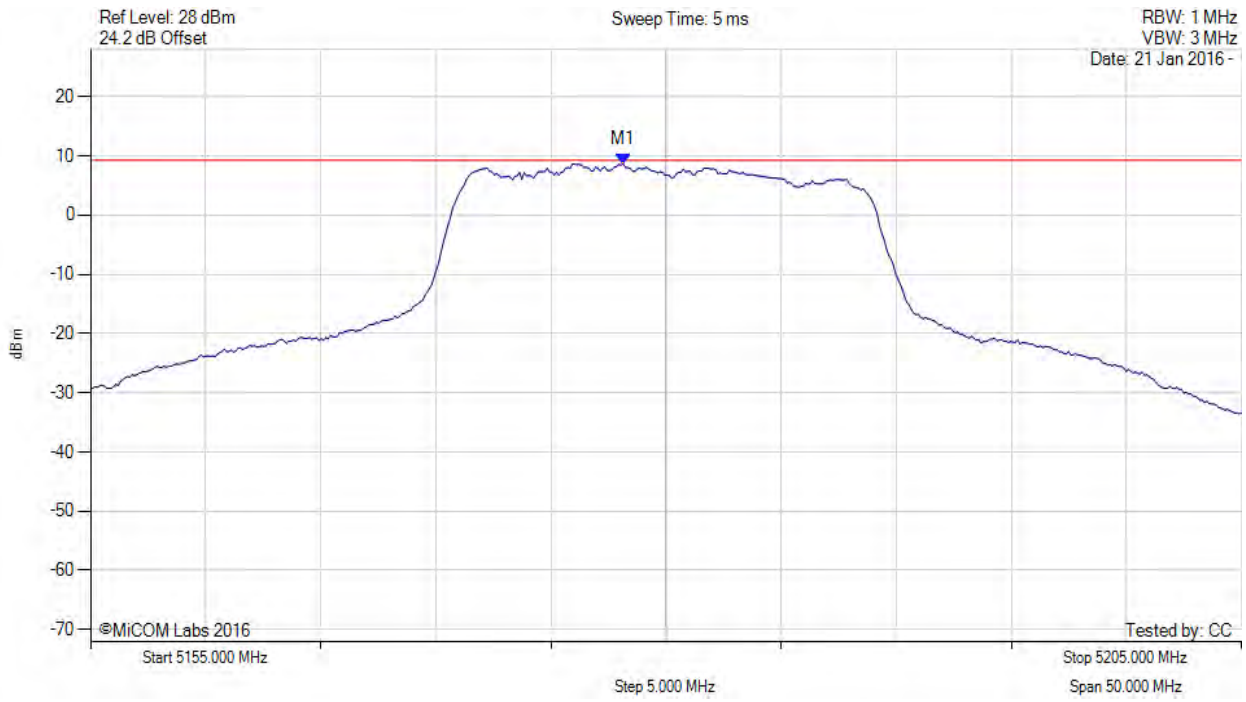
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5178.146 MHz : 8.652 dBm	Limit: ≤ 9.280 dBm

back to matrix

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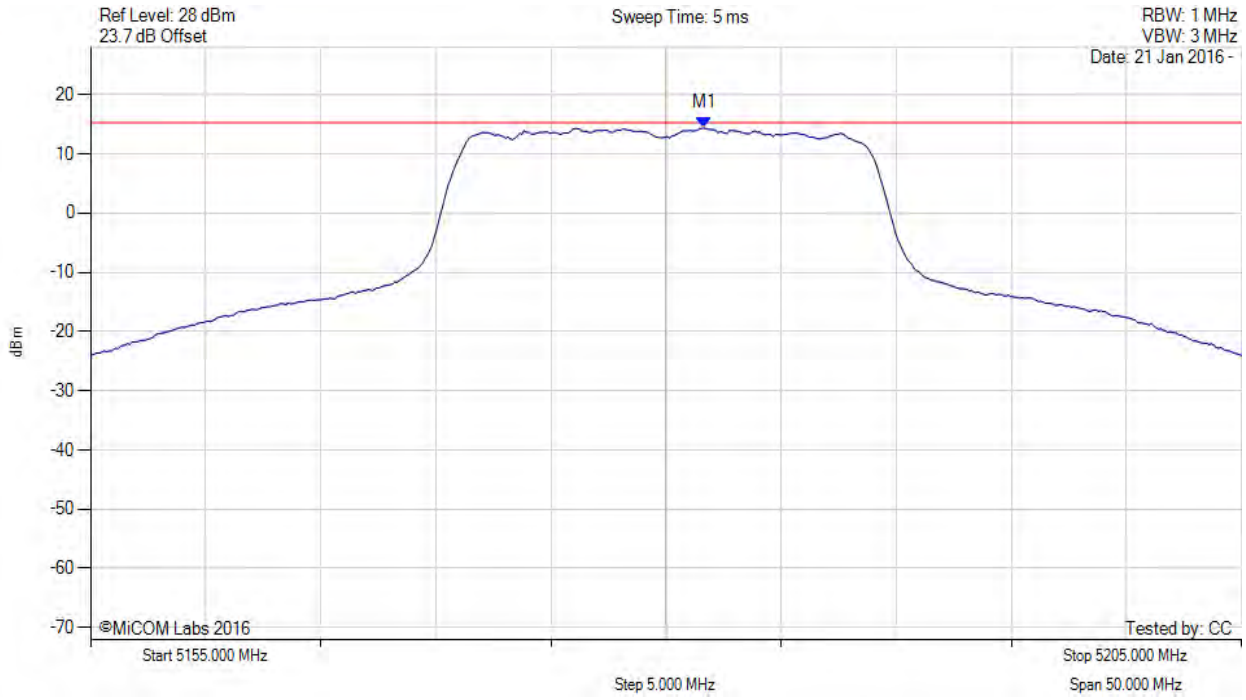
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



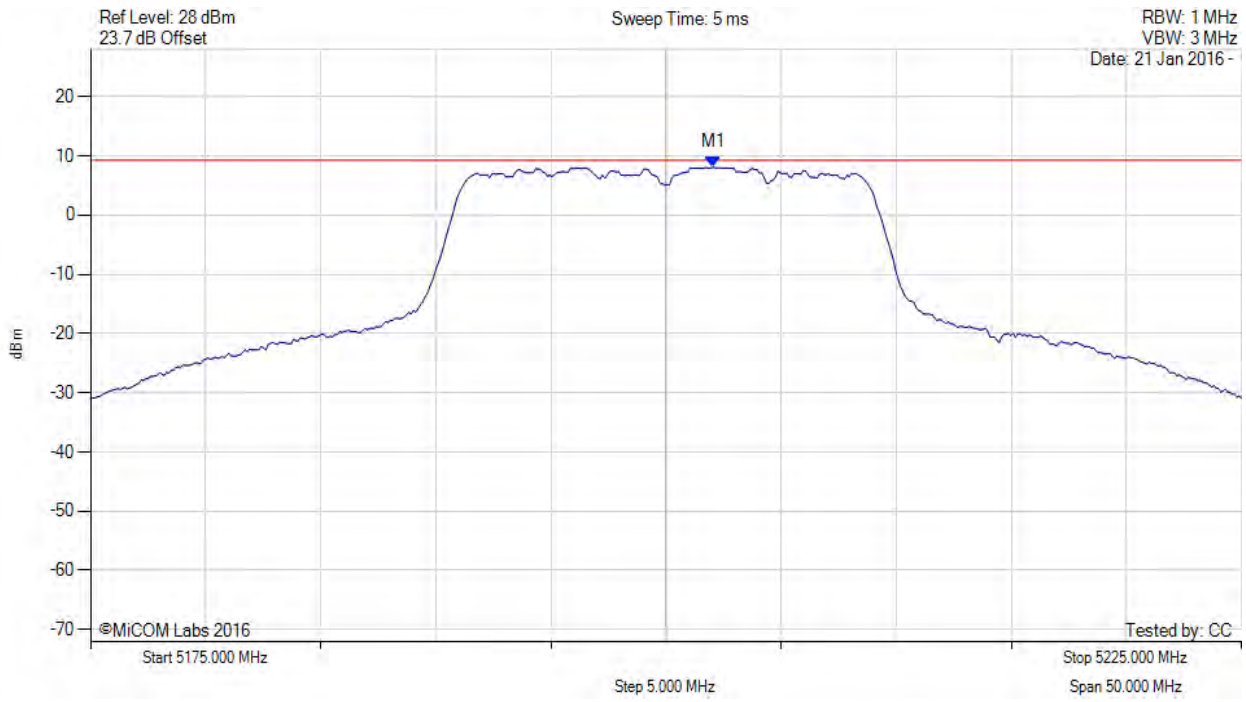
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5181.700 MHz : 14.380 dBm M1 + DCCF : 5181.700 MHz : 14.468 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 15.3 dBm Margin: -0.9 dB

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: 5200.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5202.054 MHz : 8.078 dBm	Limit: ≤ 9.280 dBm

back to matrix

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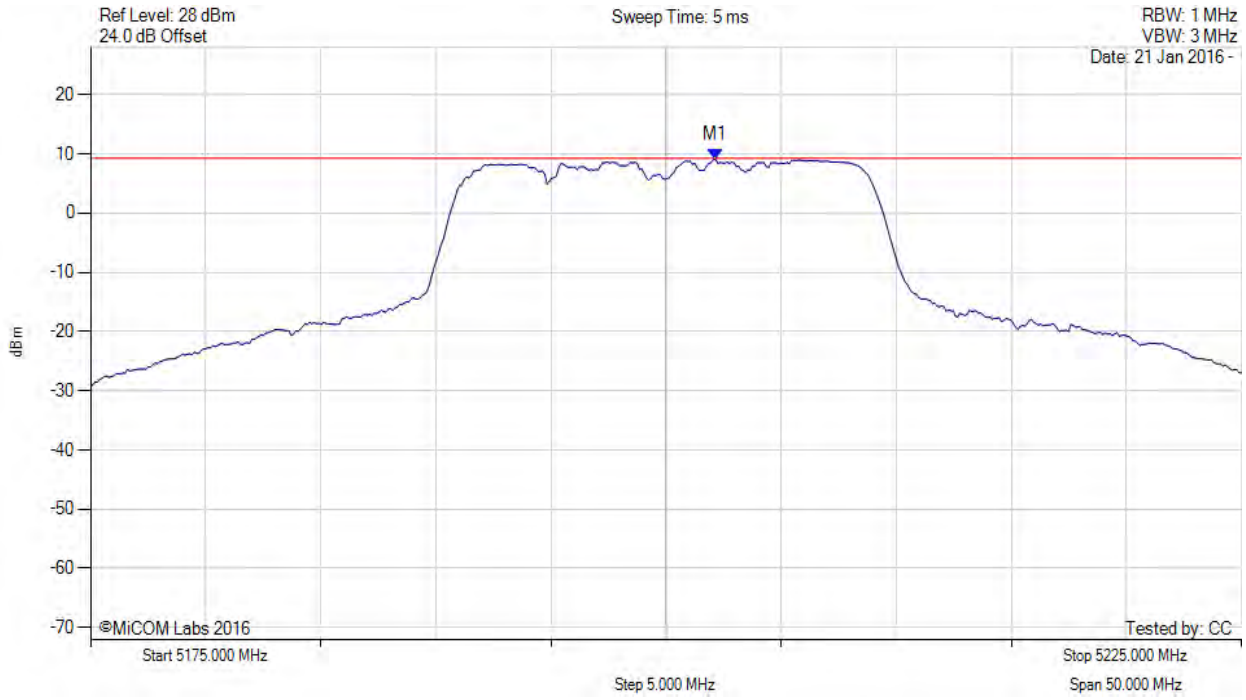
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5202.154 MHz : 9.076 dBm	Channel Frequency: 5200.00 MHz

back to matrix

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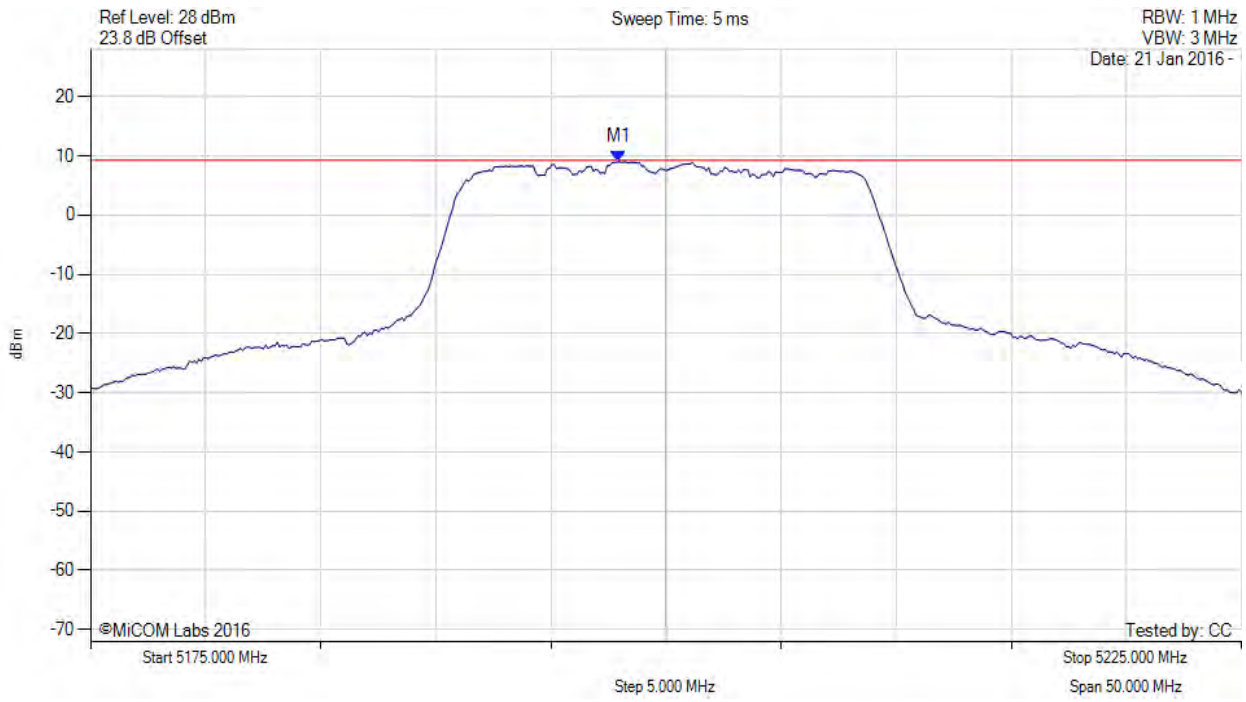
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5197.946 MHz : 9.030 dBm	Limit: ≤ 9.280 dBm

back to matrix

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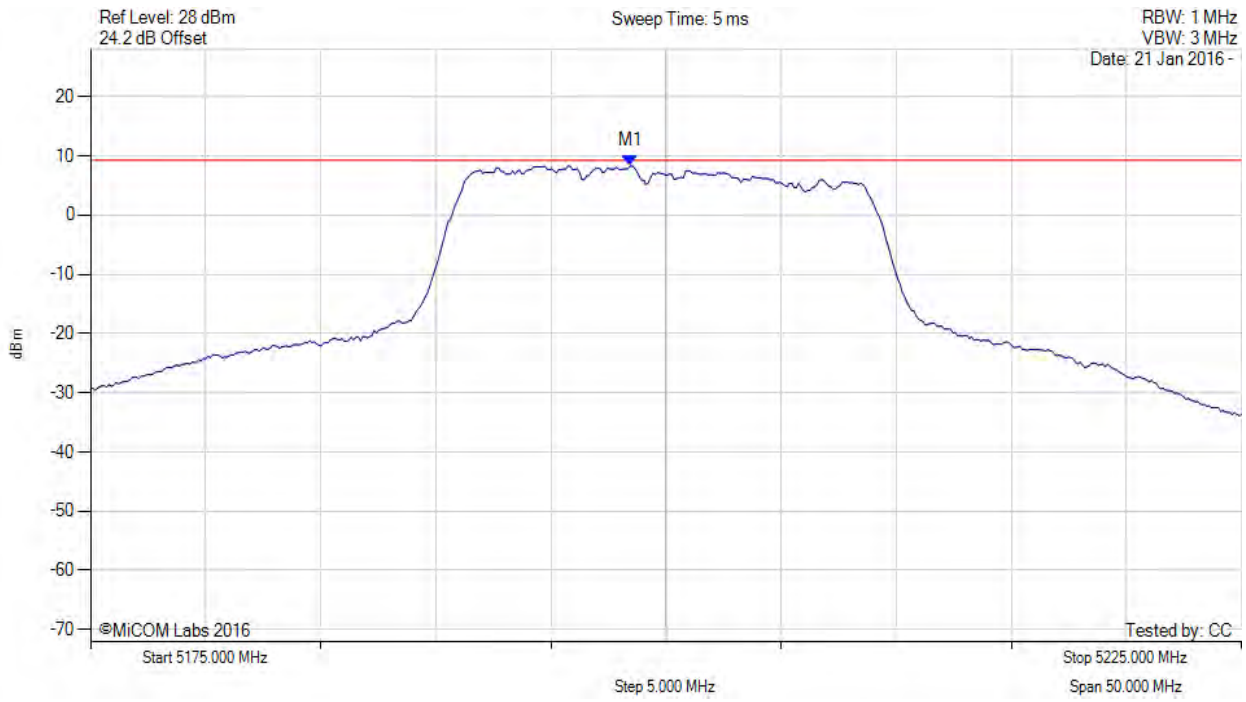
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5198.447 MHz : 8.299 dBm	Limit: ≤ 9.280 dBm

back to matrix

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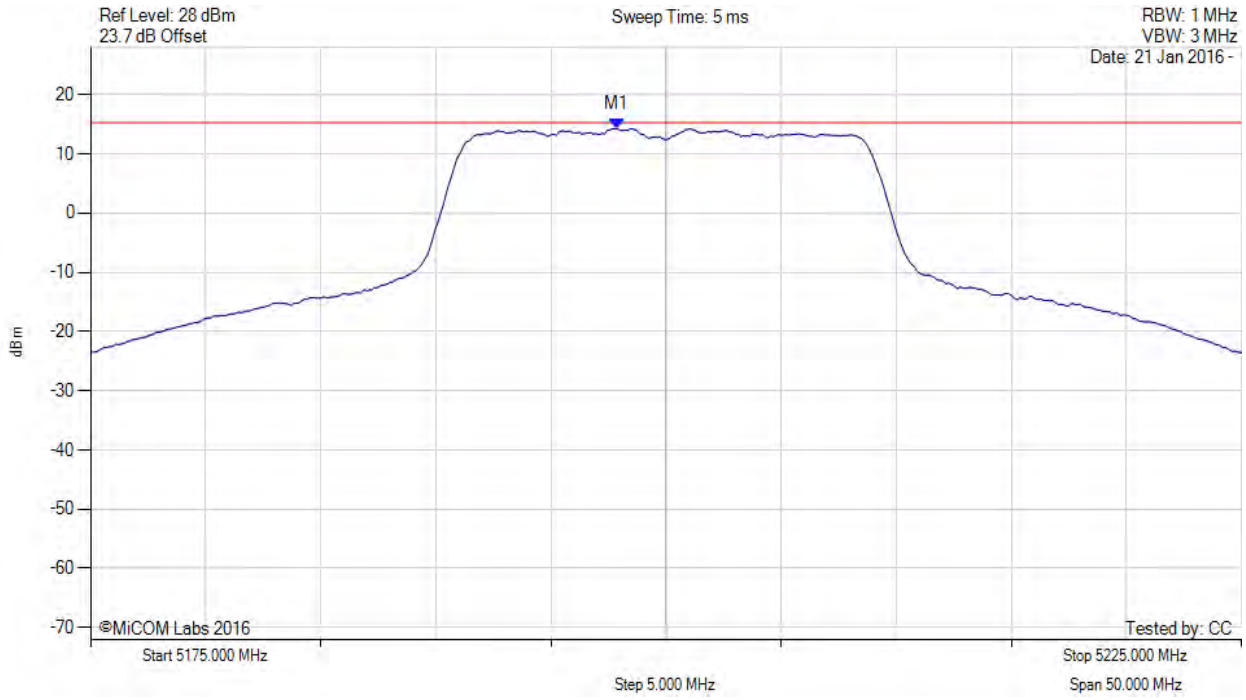
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5197.800 MHz : 14.267 dBm M1 + DCCF : 5197.800 MHz : 14.355 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 15.3 dBm Margin: -1.0 dB

back to matrix

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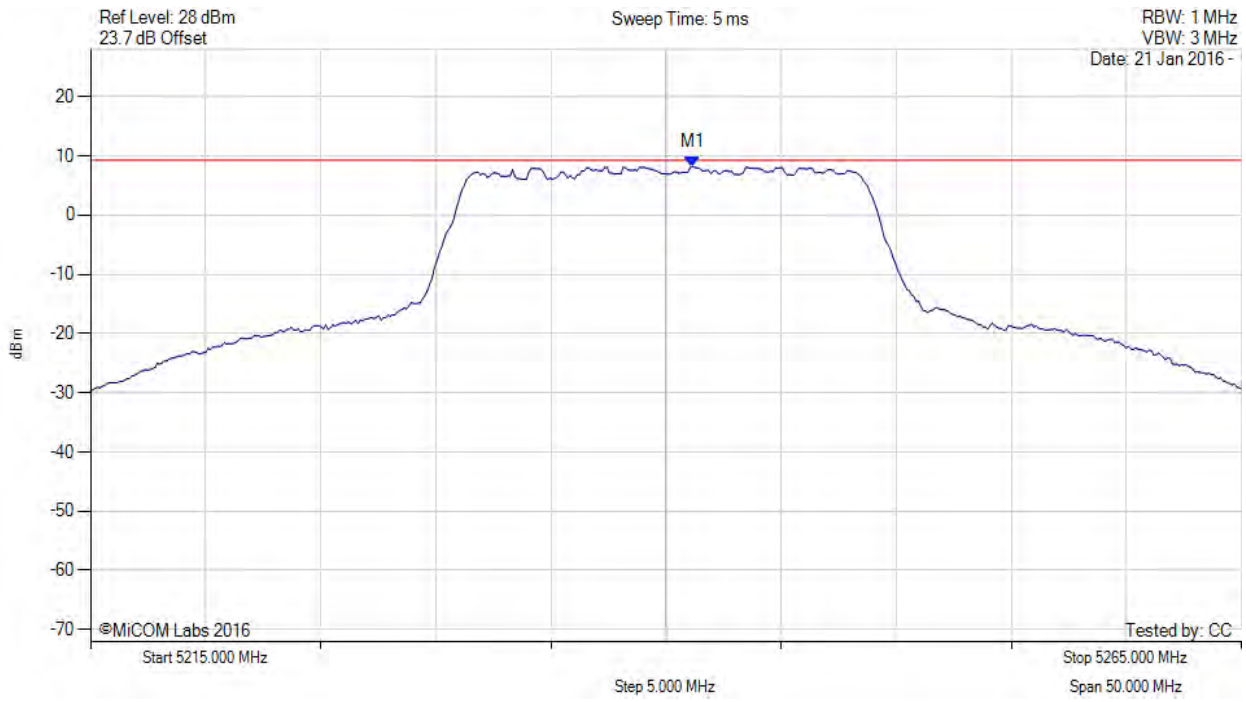
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5241.152 MHz : 8.149 dBm	Limit: ≤ 9.280 dBm

back to matrix

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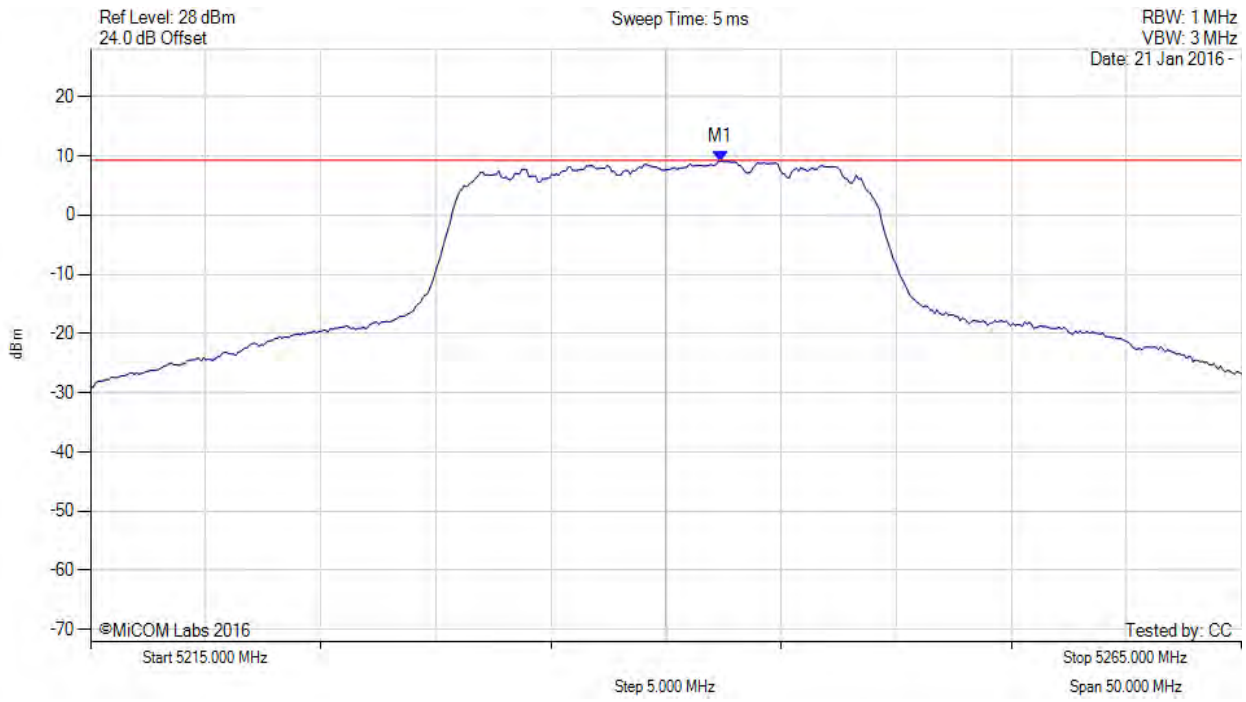
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5242.355 MHz : 9.129 dBm	Limit: ≤ 9.280 dBm

back to matrix

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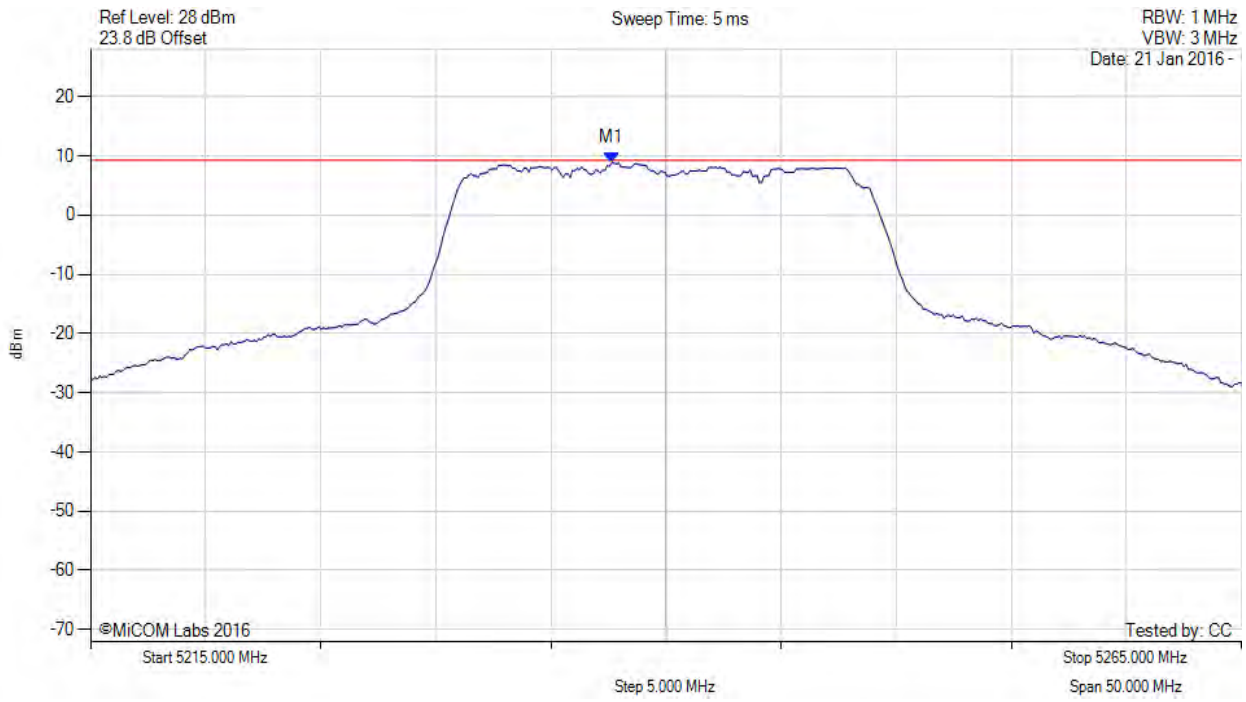
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5237.645 MHz : 8.838 dBm	Limit: ≤ 9.280 dBm

back to matrix

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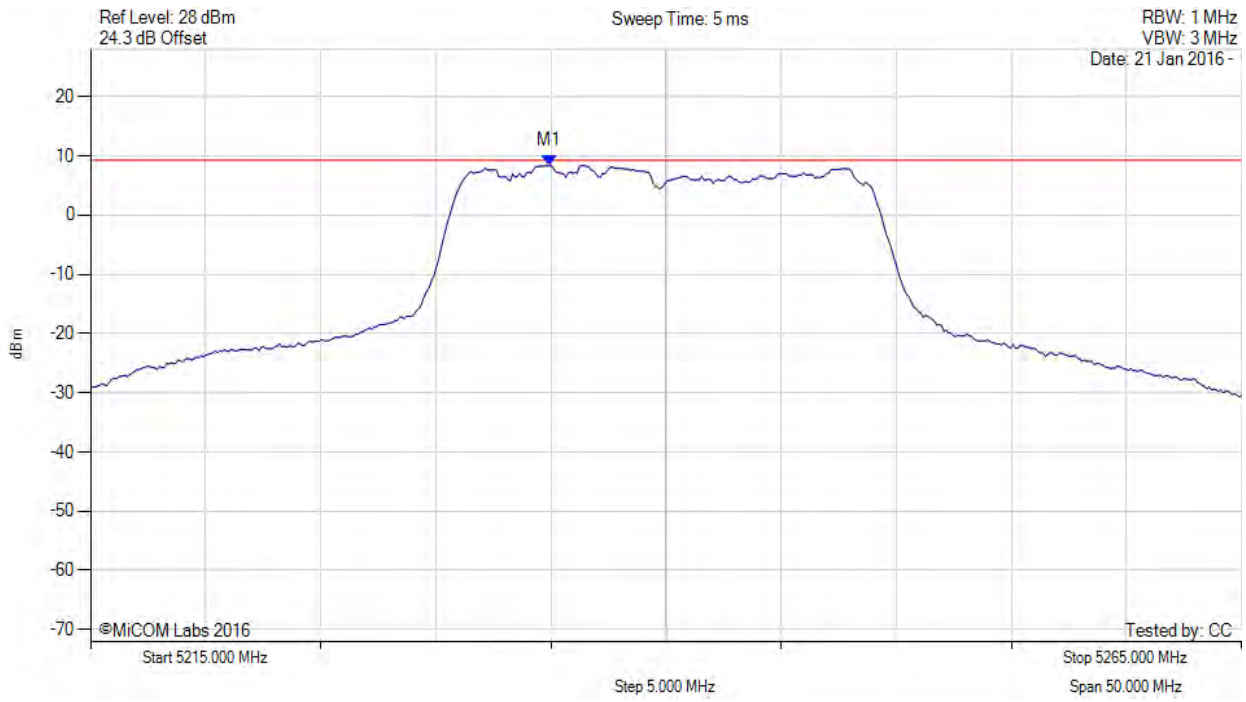
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5234.940 MHz : 8.350 dBm	Limit: ≤ 9.280 dBm

back to matrix

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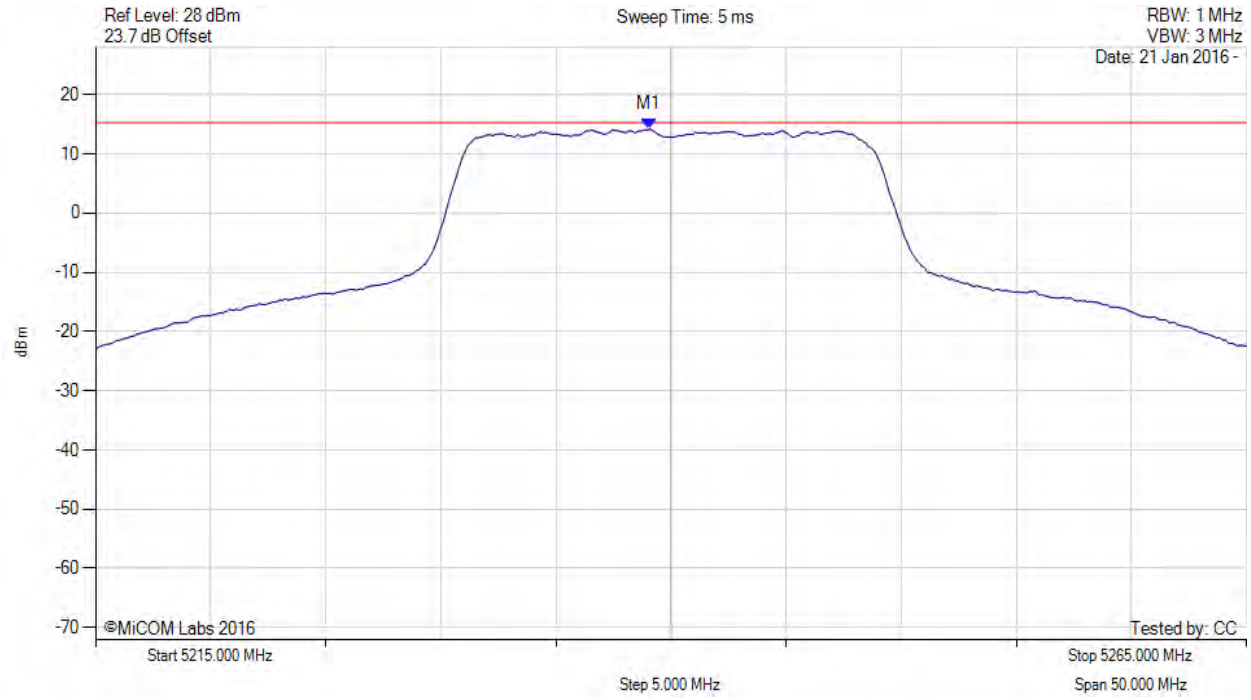
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5239.000 MHz : 14.160 dBm M1 + DCCF : 5239.000 MHz : 14.248 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 15.3 dBm Margin: -1.1 dB

back to matrix

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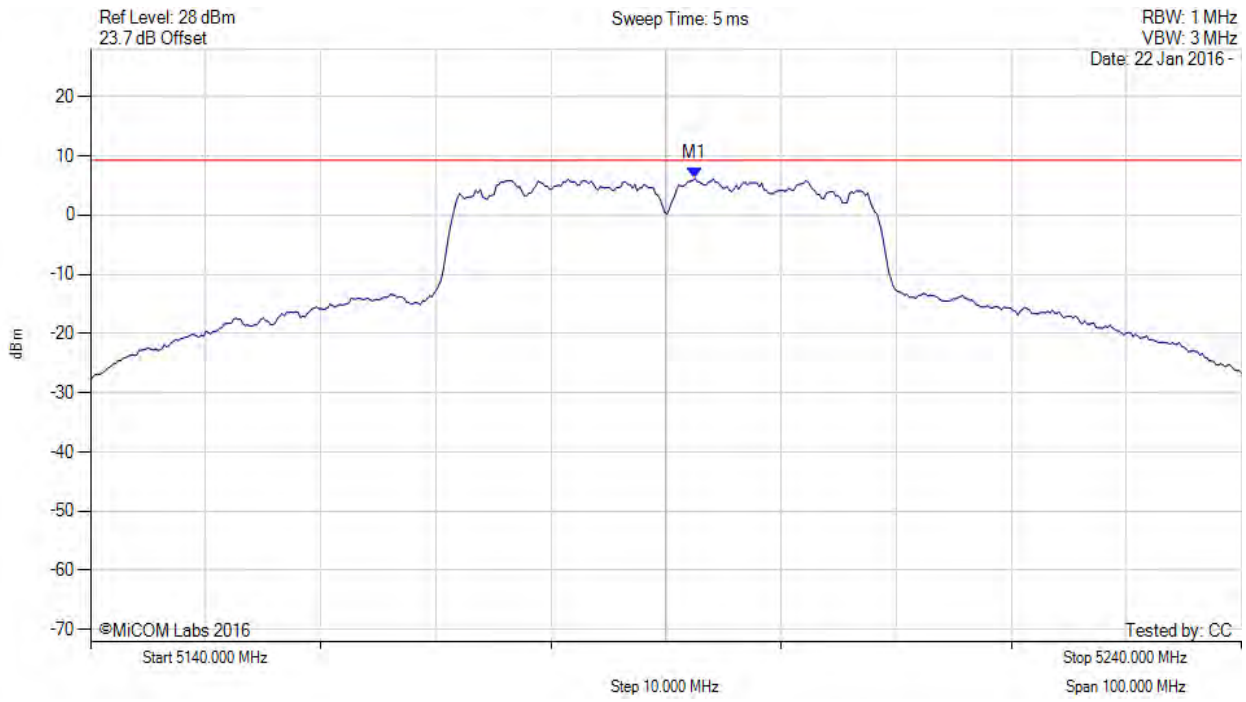
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5192.505 MHz : 6.206 dBm	Limit: ≤ 9.280 dBm

back to matrix

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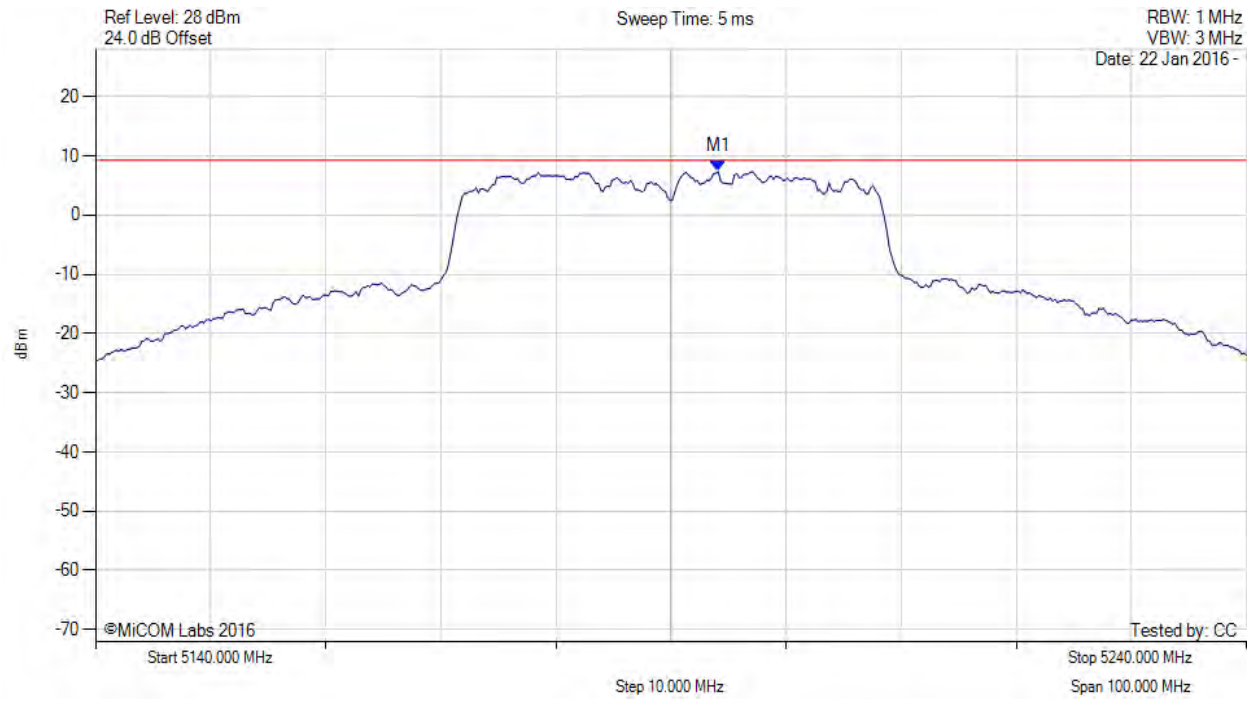
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5194.108 MHz : 7.328 dBm	Limit: ≤ 9.280 dBm

back to matrix

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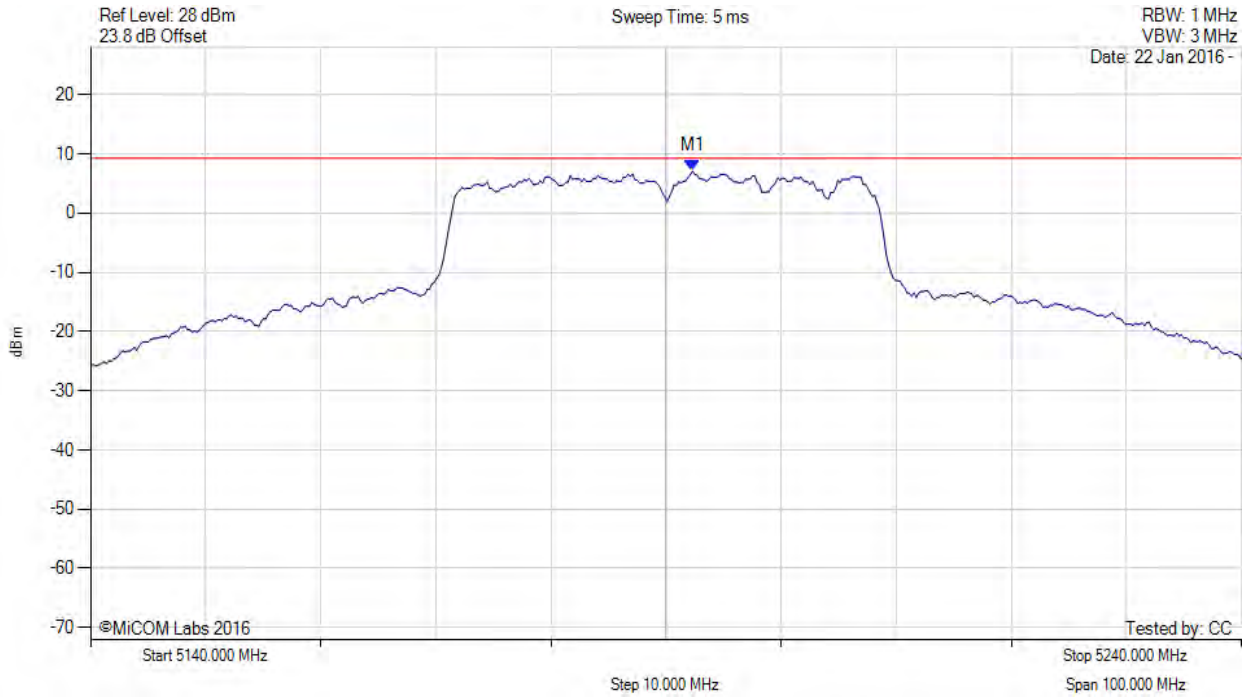
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5192.305 MHz : 7.089 dBm	Limit: ≤ 9.280 dBm

back to matrix

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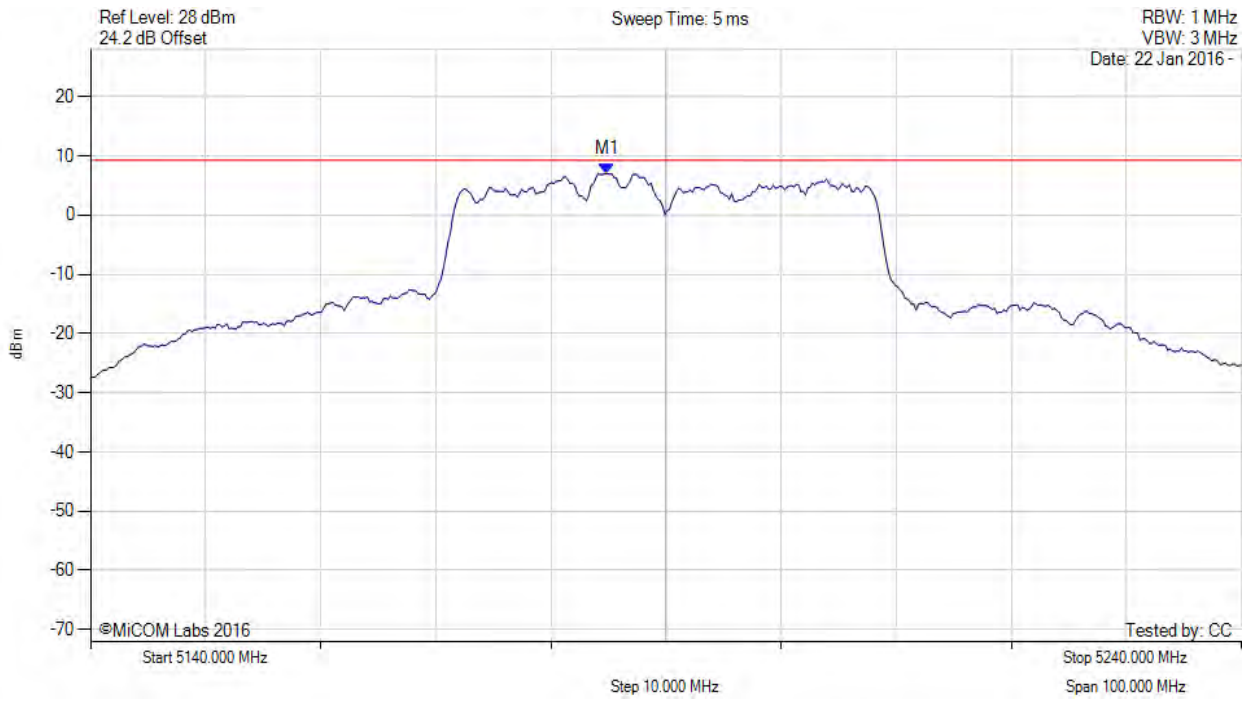
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5184.890 MHz : 6.967 dBm	Limit: ≤ 9.280 dBm

back to matrix

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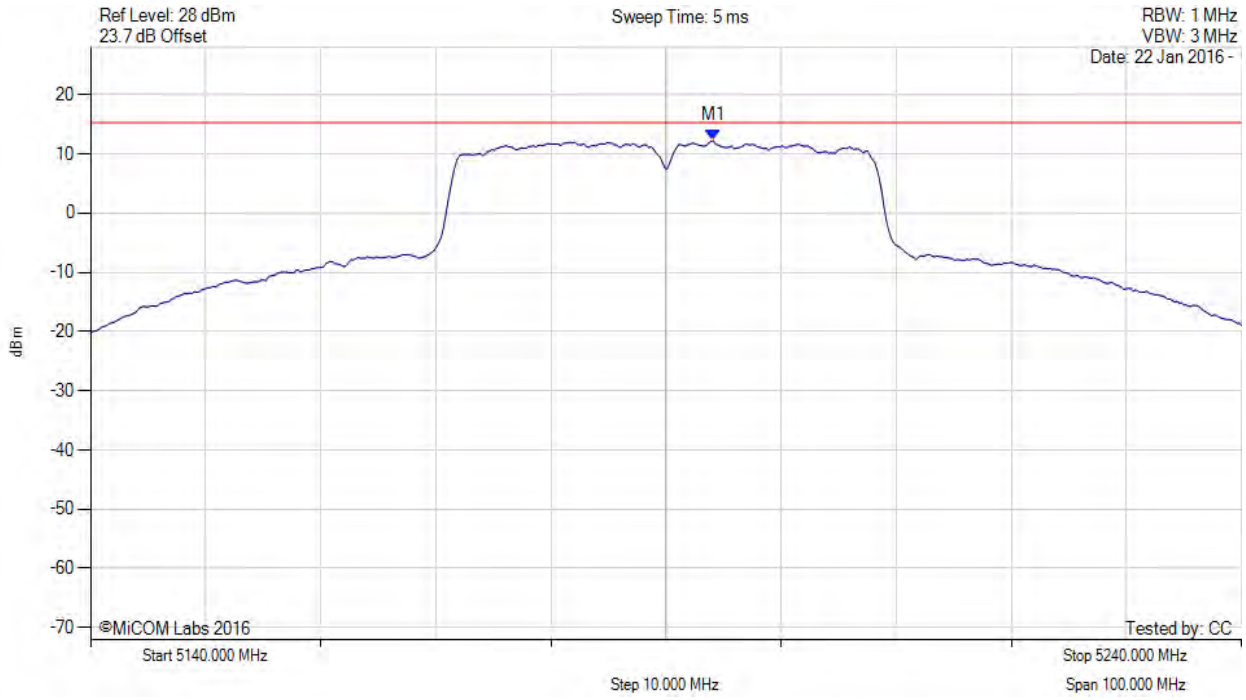
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5194.100 MHz : 12.235 dBm M1 + DCCF : 5194.100 MHz : 12.458 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 15.3 dBm Margin: -2.9 dB

back to matrix

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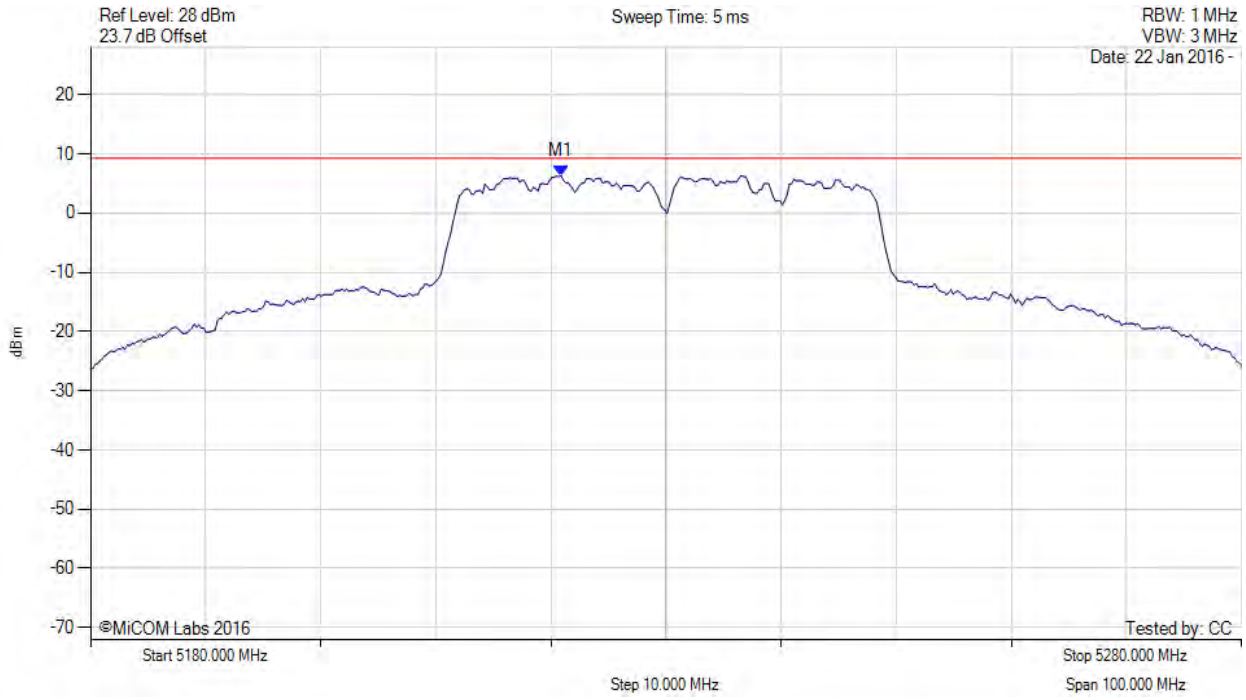
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5220.882 MHz : 6.316 dBm	Limit: ≤ 9.280 dBm

back to matrix

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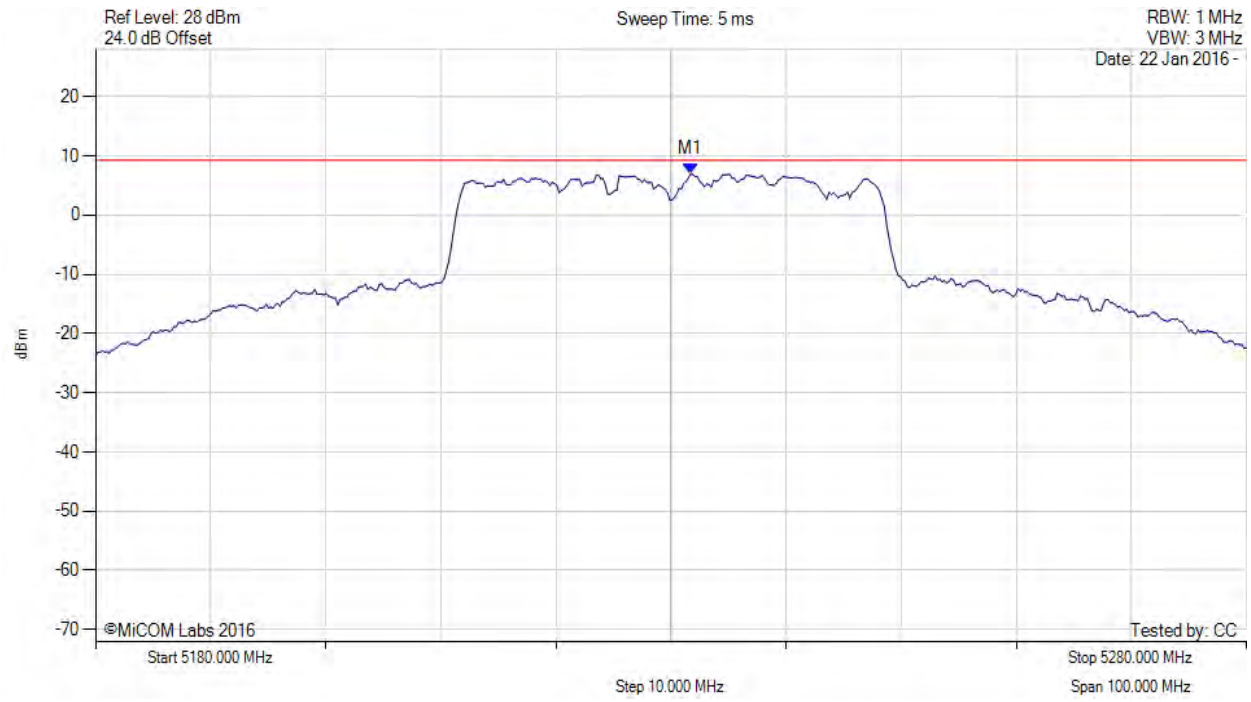
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5231.703 MHz : 6.911 dBm	Limit: ≤ 9.280 dBm

back to matrix

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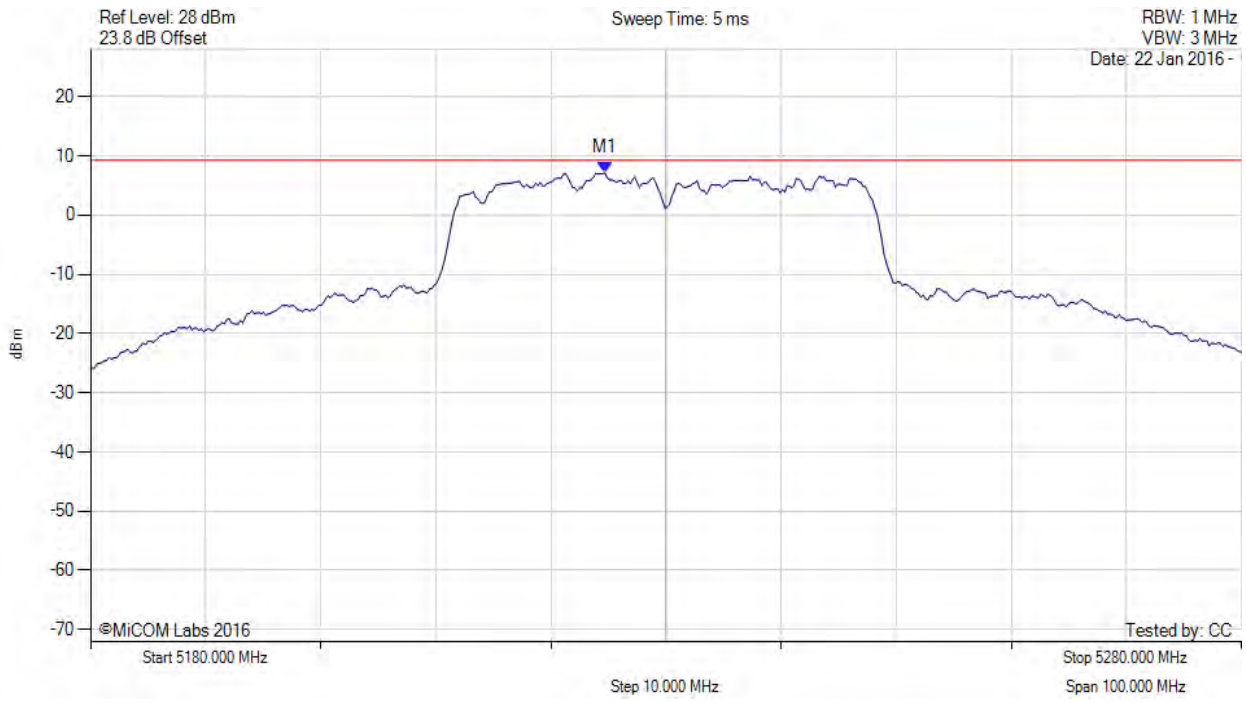
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5224.689 MHz : 7.116 dBm	Limit: ≤ 9.280 dBm

back to matrix

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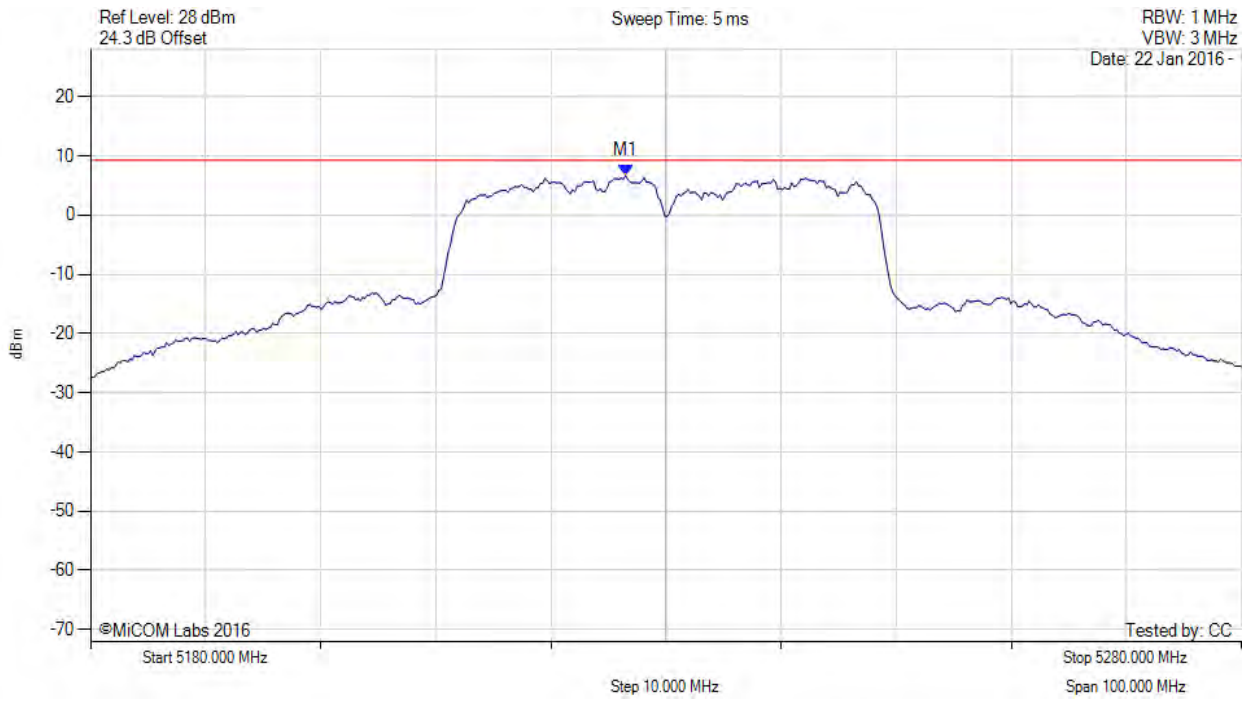
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5226.493 MHz : 6.688 dBm	Limit: ≤ 9.280 dBm

back to matrix

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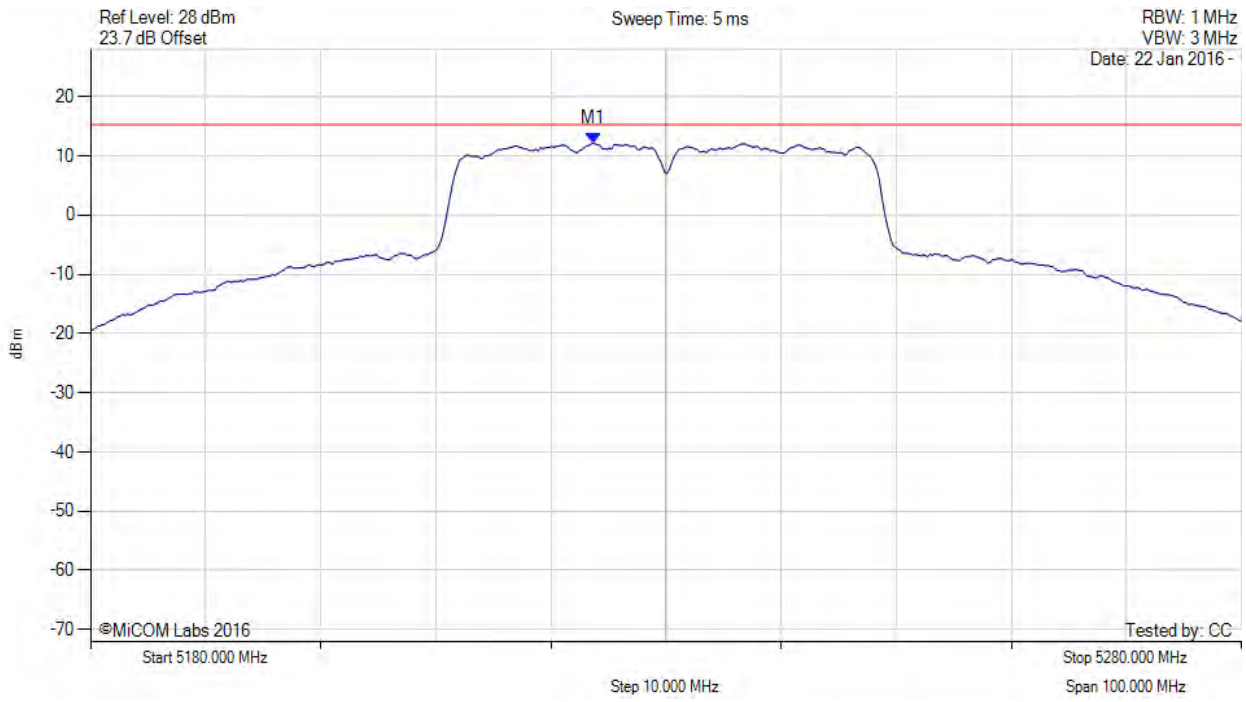
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



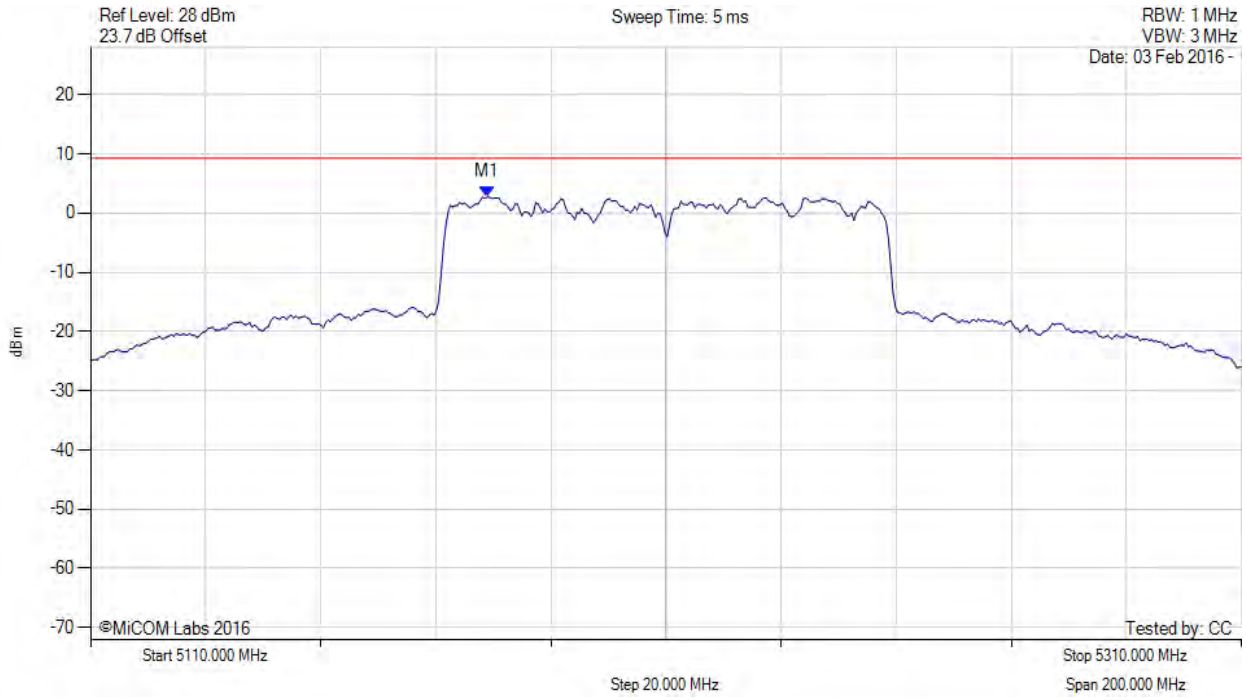
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5223.700 MHz : 12.124 dBm M1 + DCCF : 5223.700 MHz : 12.347 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 15.3 dBm Margin: -3.0 dB

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: 802.11ac-160, Channel: 5210.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5178.938 MHz : 2.728 dBm	Limit: ≤ 9.280 dBm

back to matrix

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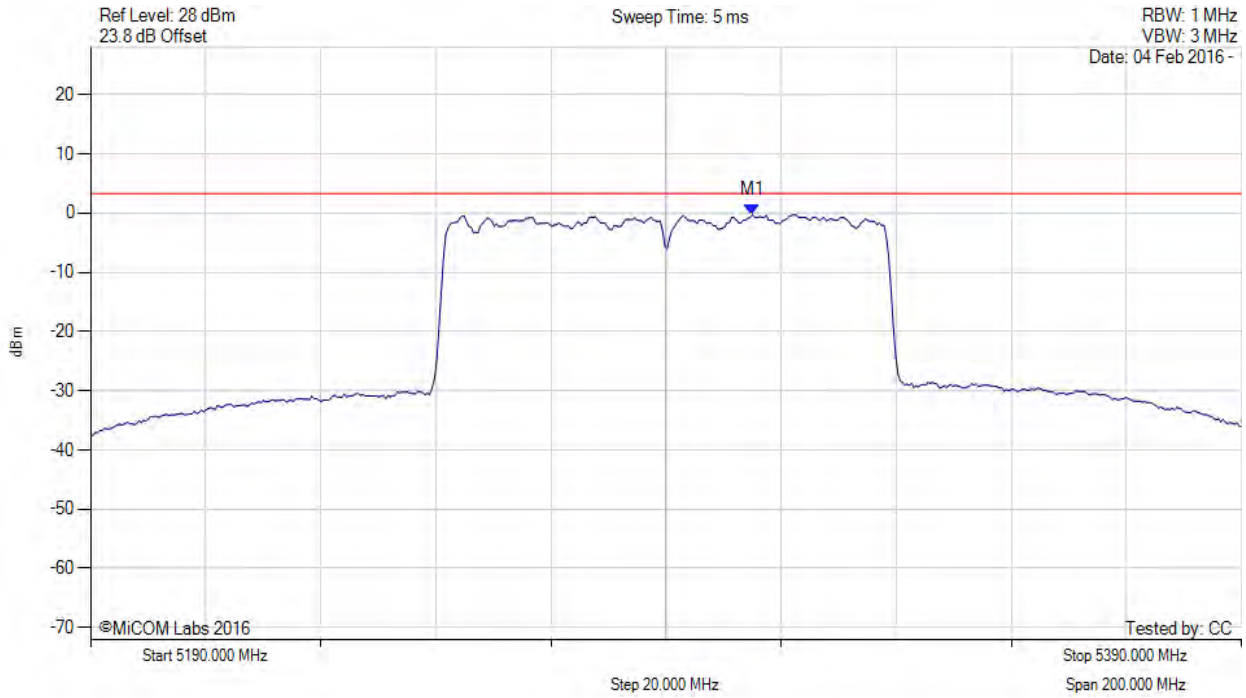
POWER SPECTRAL DENSITY

Variant: 802.11ac-160, Channel: 5290.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5305.030 MHz : -0.251 dBm	Limit: ≤ 3.280 dBm

back to matrix

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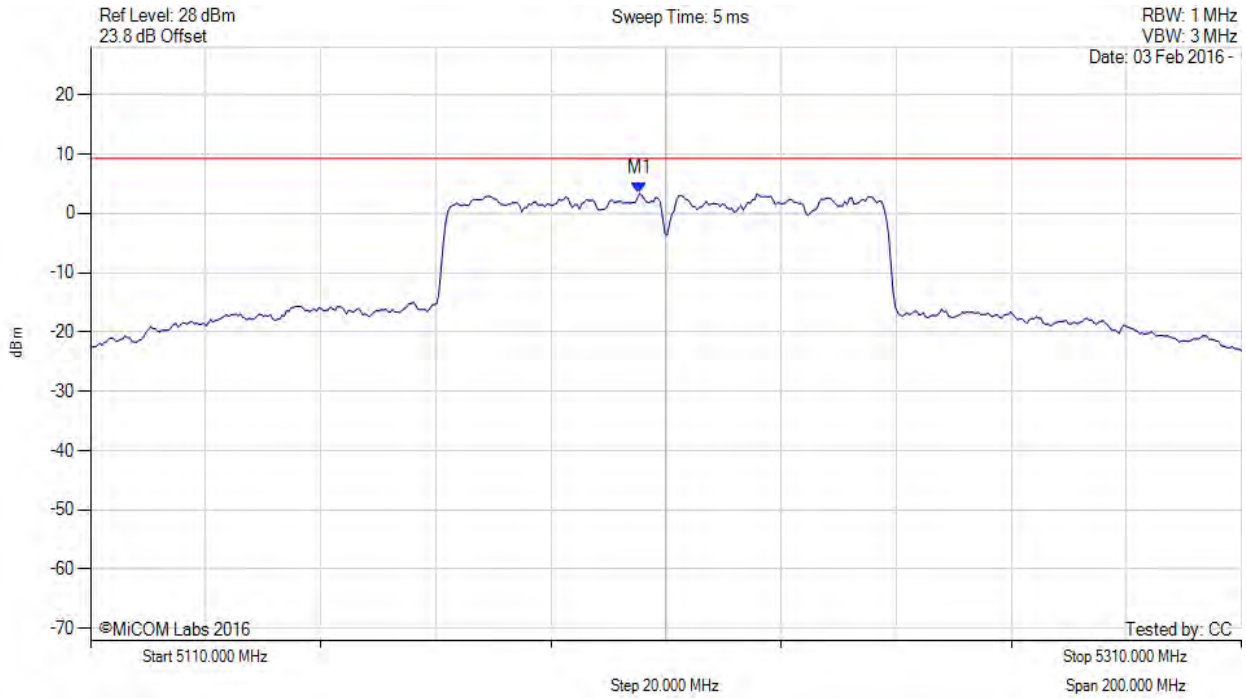
POWER SPECTRAL DENSITY

Variant: 802.11ac-160, Channel: 5210.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5205.391 MHz : 3.371 dBm	Limit: ≤ 9.280 dBm

back to matrix

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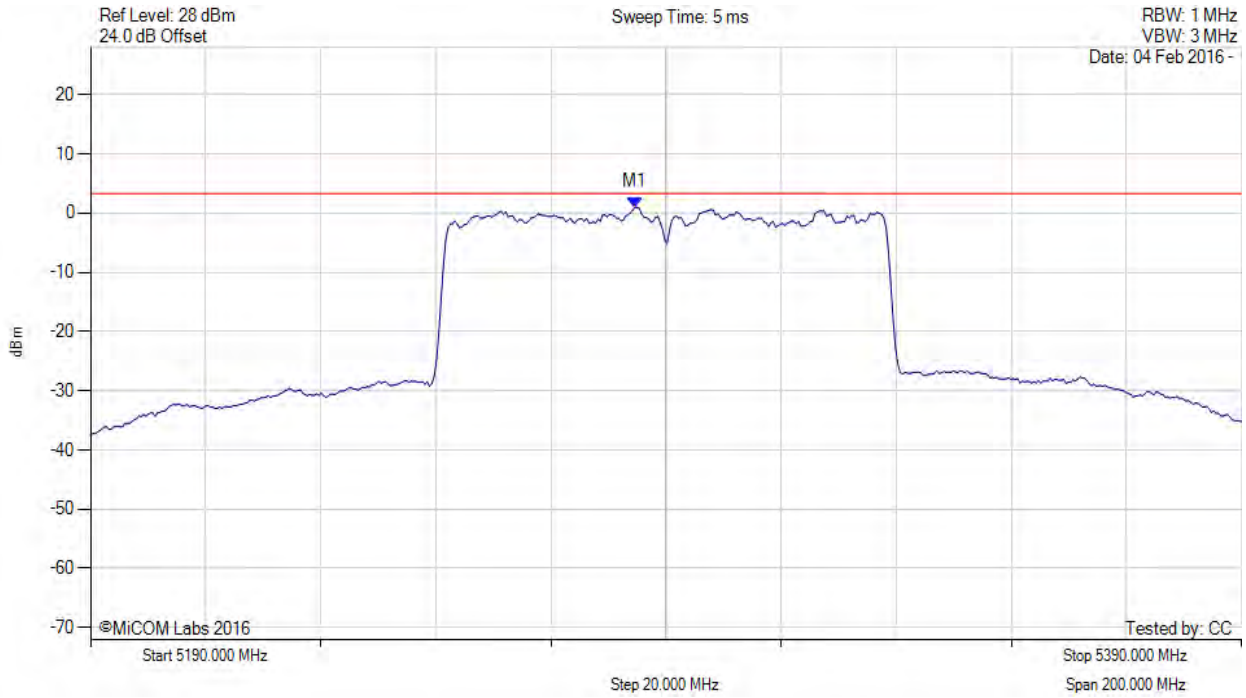
POWER SPECTRAL DENSITY

Variant: 802.11ac-160, Channel: 5290.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5284.589 MHz : 0.977 dBm	Limit: ≤ 3.280 dBm

back to matrix

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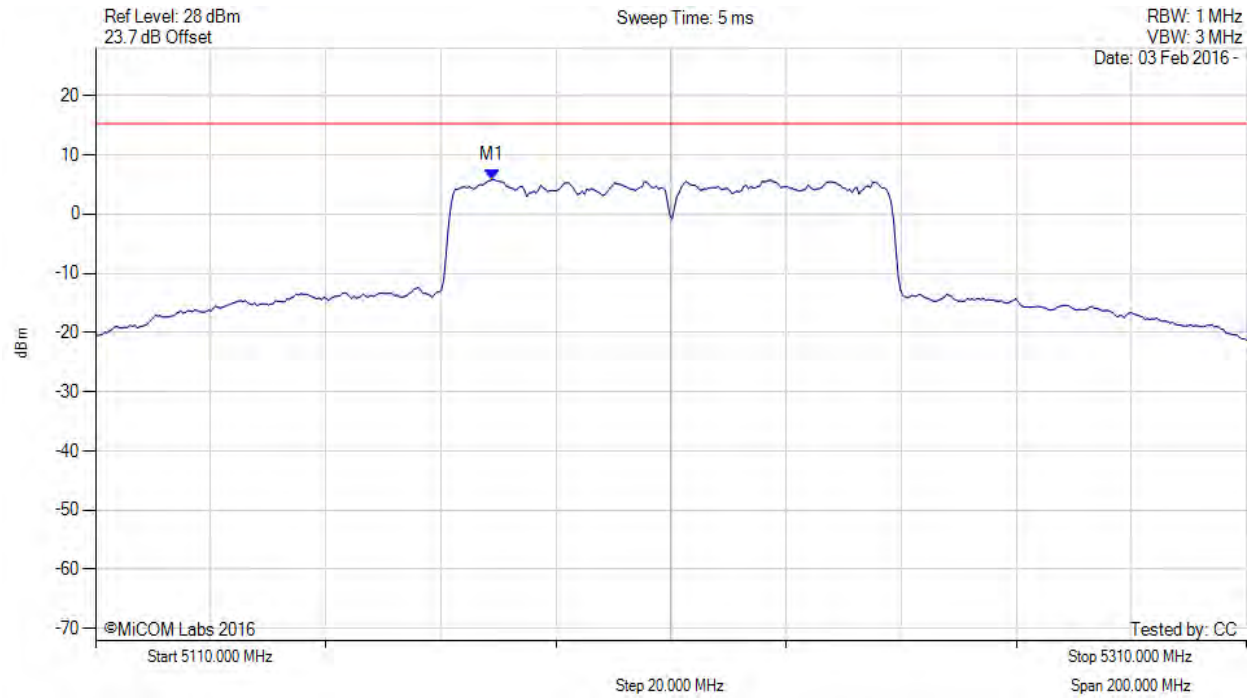
POWER SPECTRAL DENSITY

Variant: 802.11ac-160, Channel: 5210.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5178.900 MHz : 5.819 dBm M1 + DCCF : 5178.900 MHz : 6.229 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 15.3 dBm Margin: -9.1 dB

back to matrix

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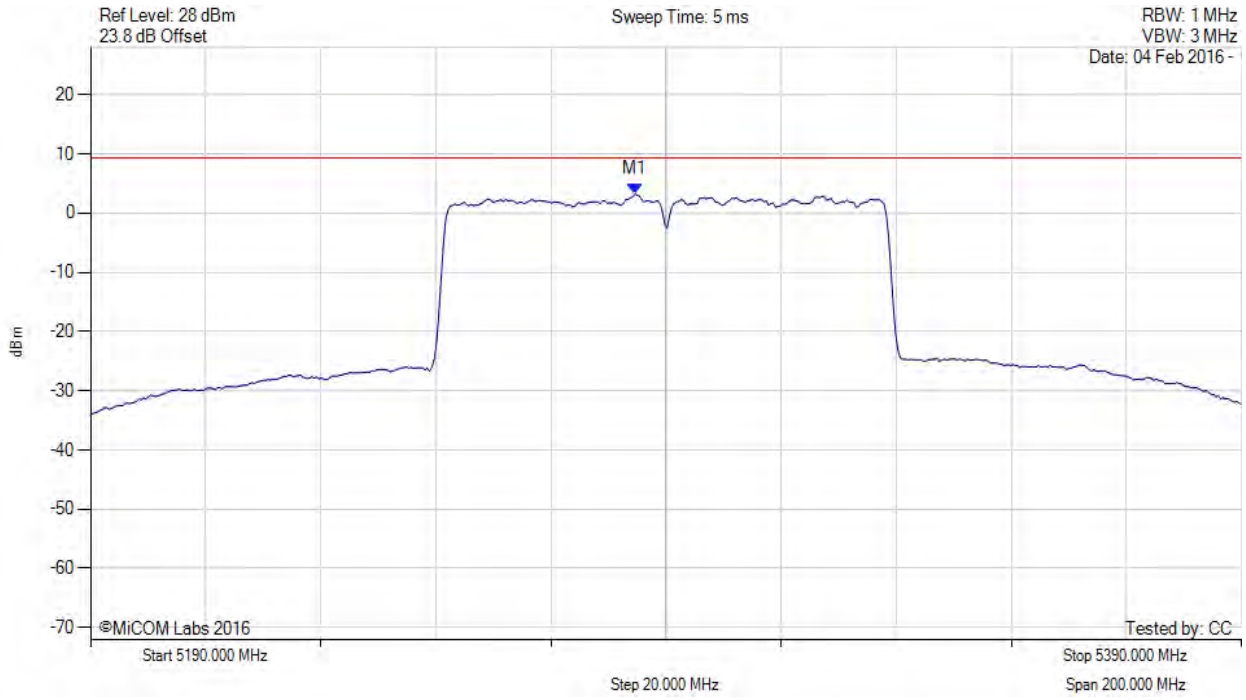
POWER SPECTRAL DENSITY

Variant: 802.11ac-160, Channel: 5290.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5284.600 MHz : 3.222 dBm M1 + DCCF : 5284.600 MHz : 3.632 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 9.3 dBm Margin: -5.7 dB

back to matrix

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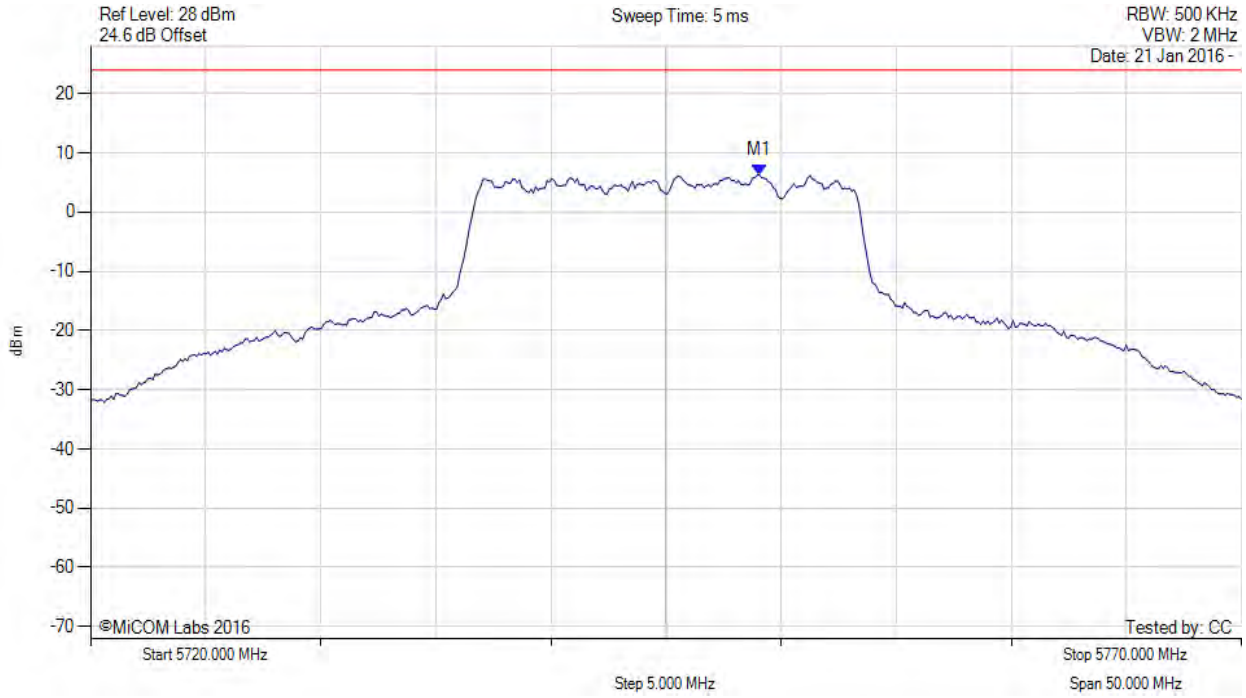
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5749.058 MHz : 6.308 dBm	Limit: ≤ 24.000 dBm

back to matrix

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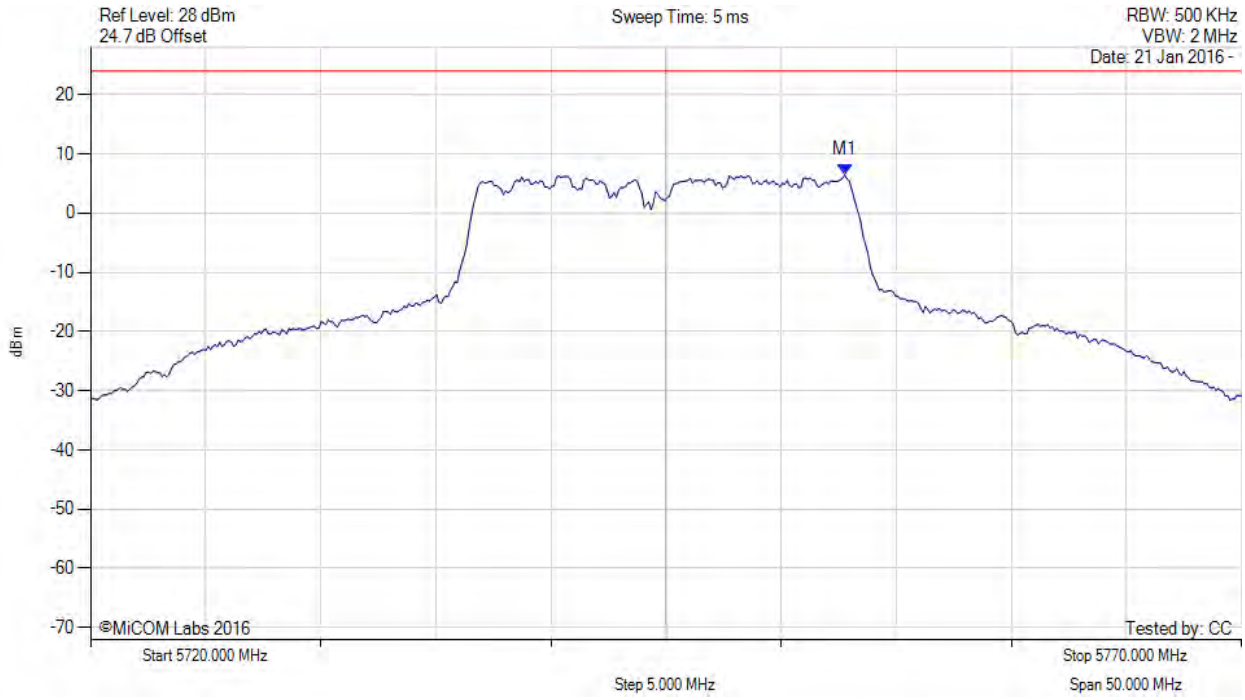
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5752.766 MHz : 6.459 dBm	Limit: ≤ 24.000 dBm

back to matrix

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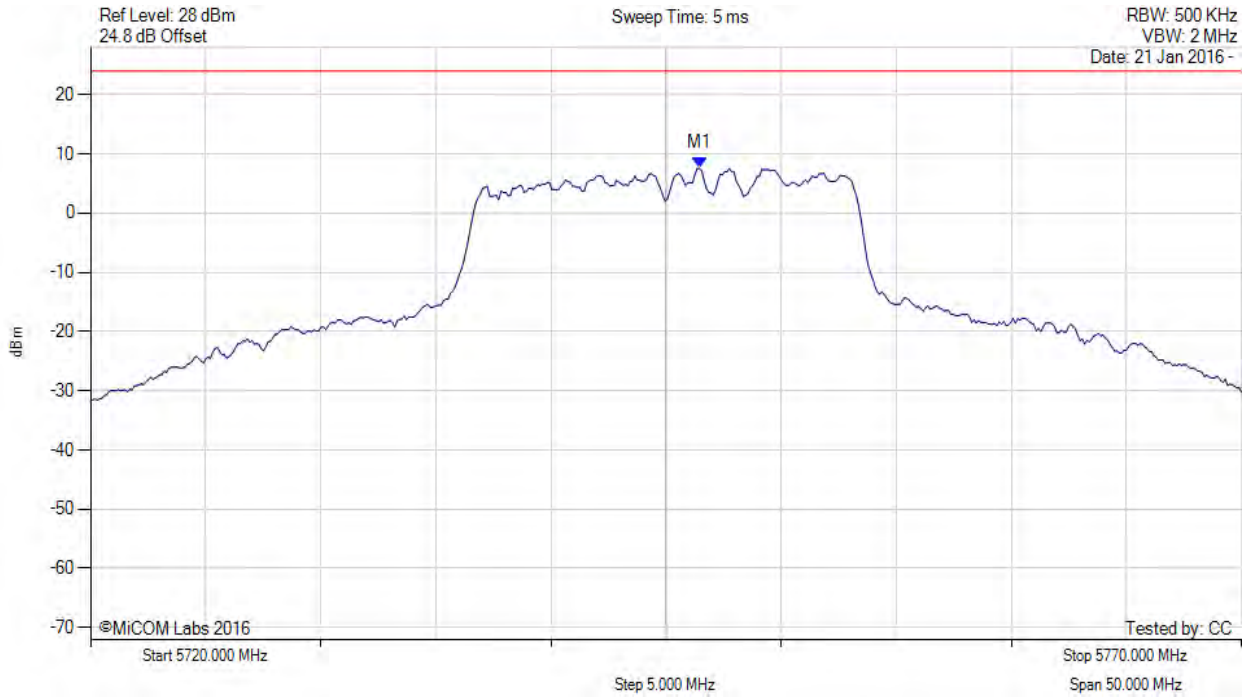
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.453 MHz : 7.558 dBm	Limit: ≤ 24.000 dBm

back to matrix

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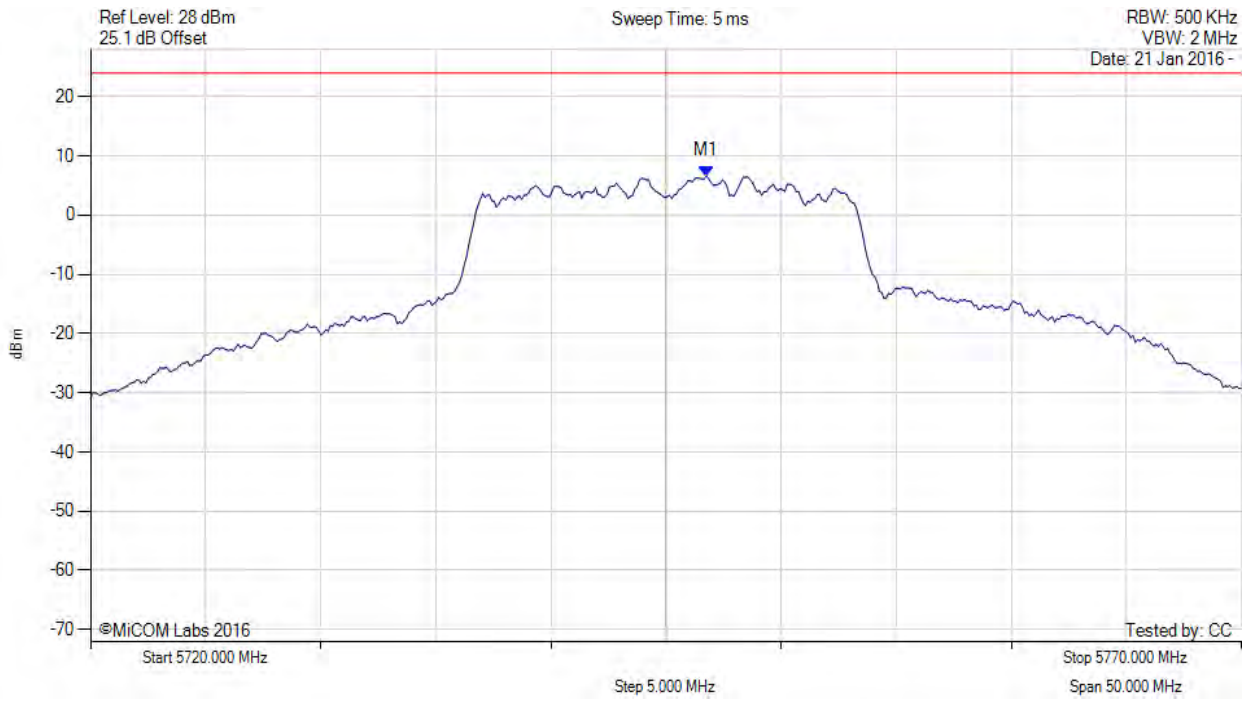
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.754 MHz : 6.586 dBm	Limit: ≤ 24.000 dBm

back to matrix

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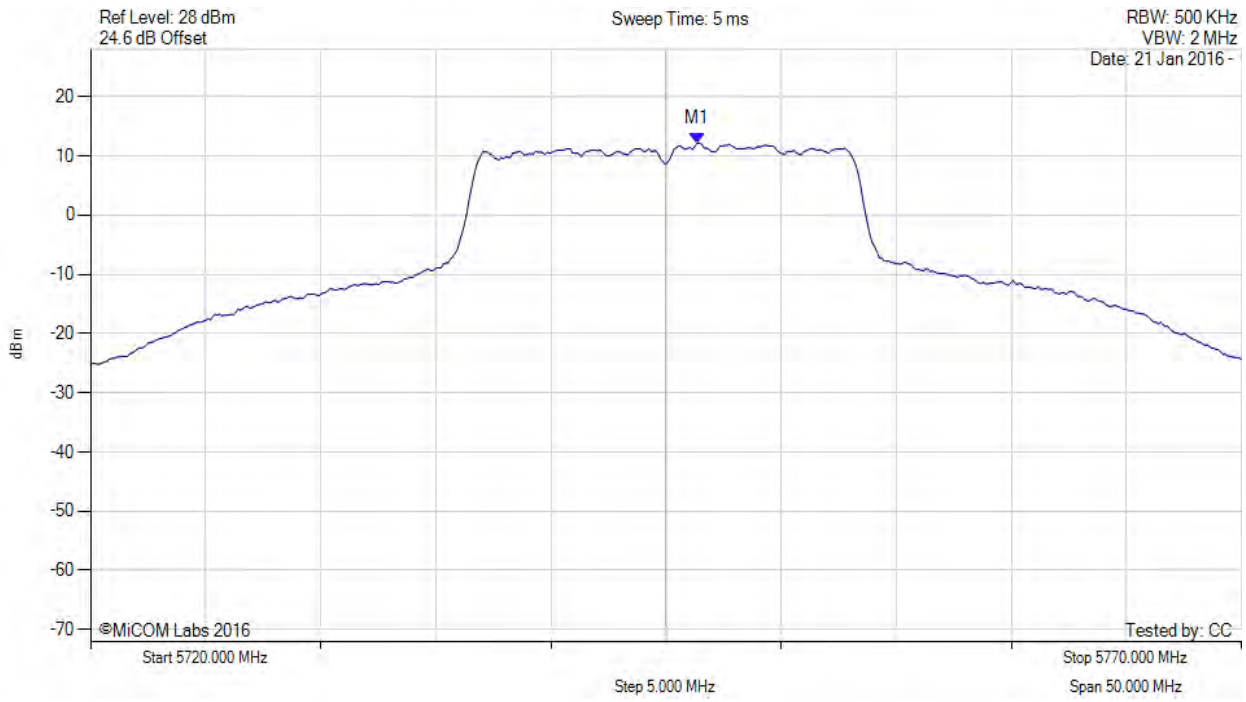
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.400 MHz : 12.136 dBm M1 + DCCF : 5746.400 MHz : 12.313 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 30.0 dBm Margin: -17.7 dB

back to matrix

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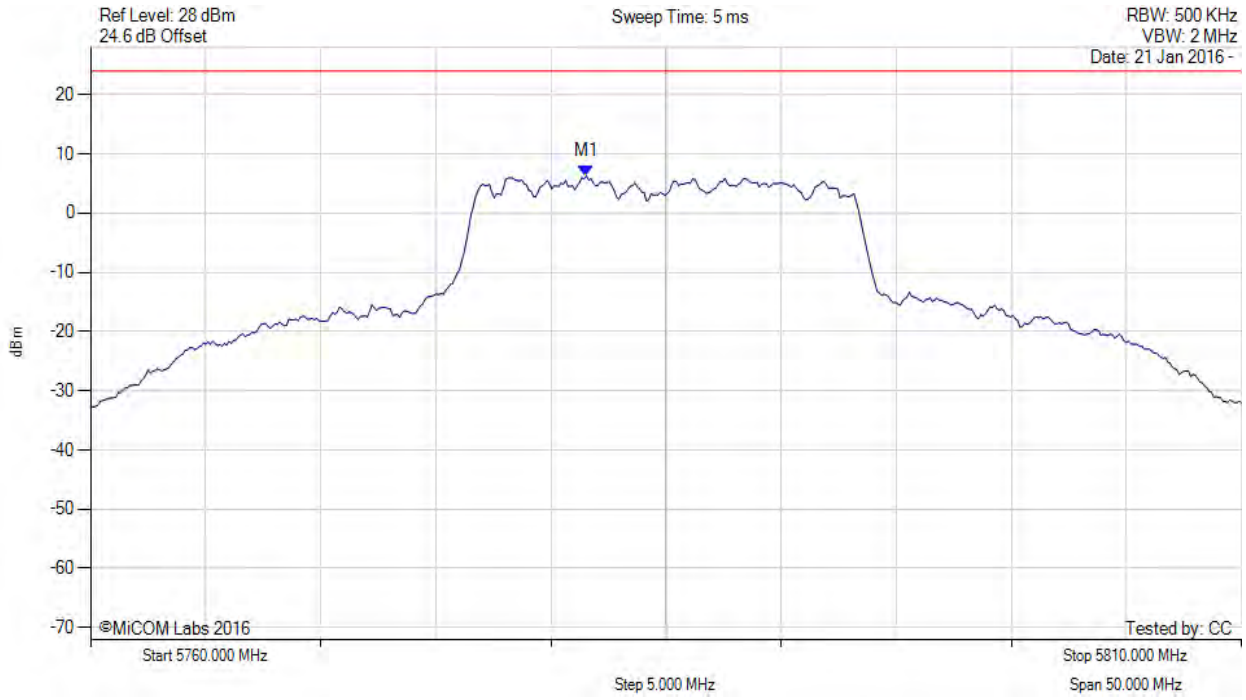
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5781.543 MHz : 6.262 dBm	Limit: ≤ 24.000 dBm

back to matrix

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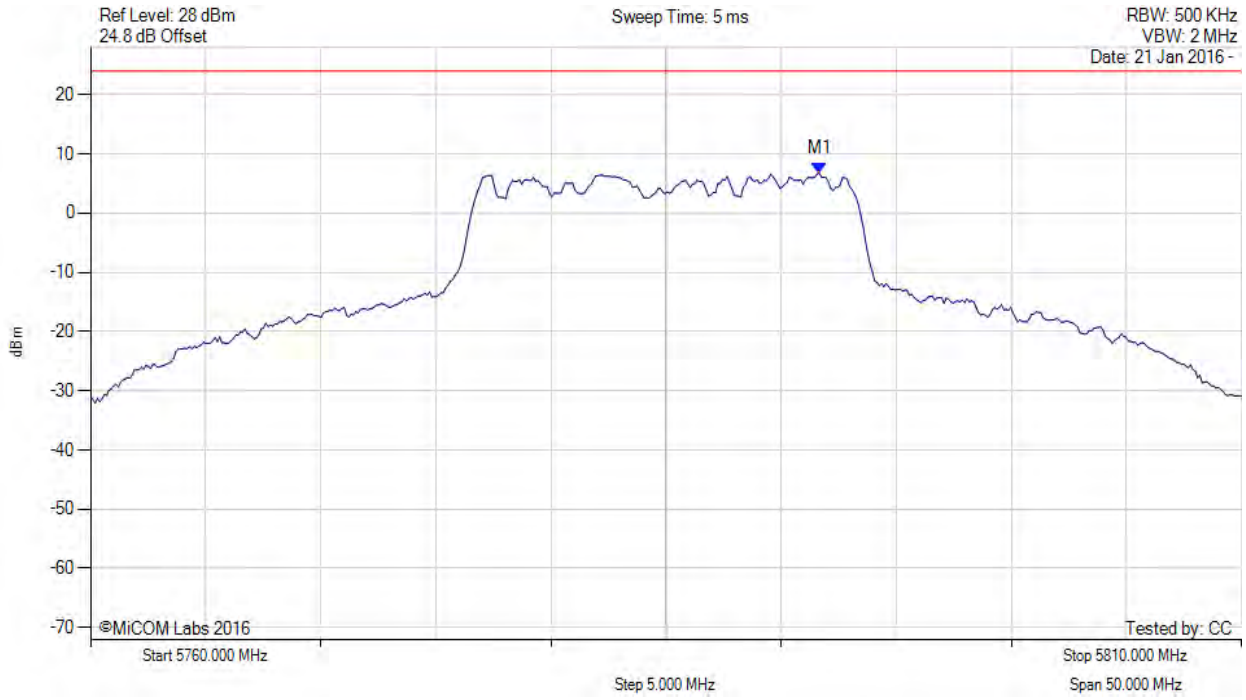
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.663 MHz : 6.742 dBm	Channel Frequency: 5785.00 MHz

back to matrix

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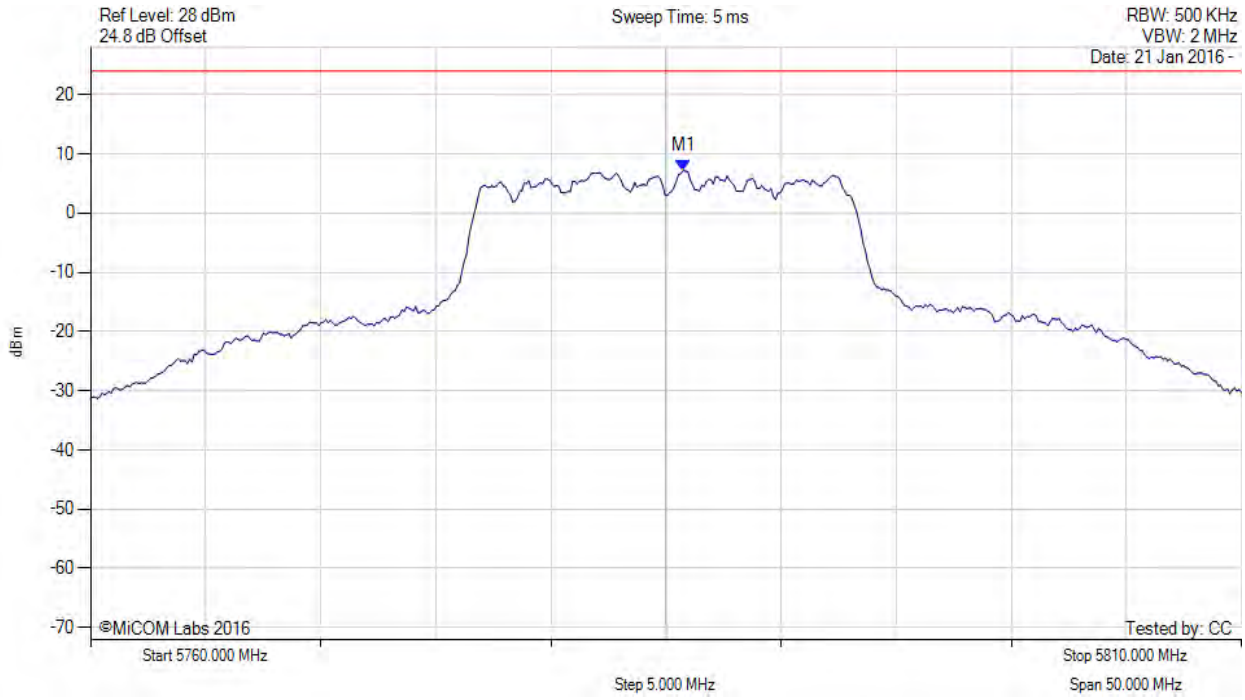
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5785.752 MHz : 7.215 dBm	Limit: ≤ 24.000 dBm

back to matrix

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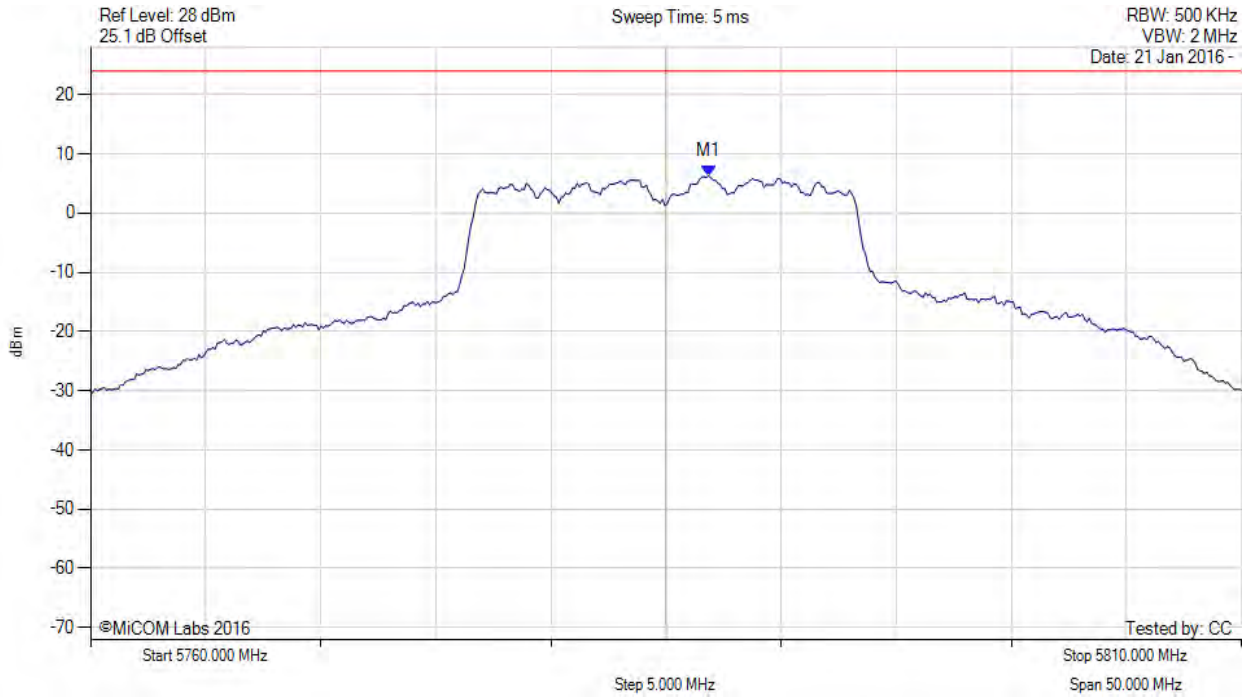
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5786.854 MHz : 6.294 dBm	Limit: ≤ 24.000 dBm

back to matrix

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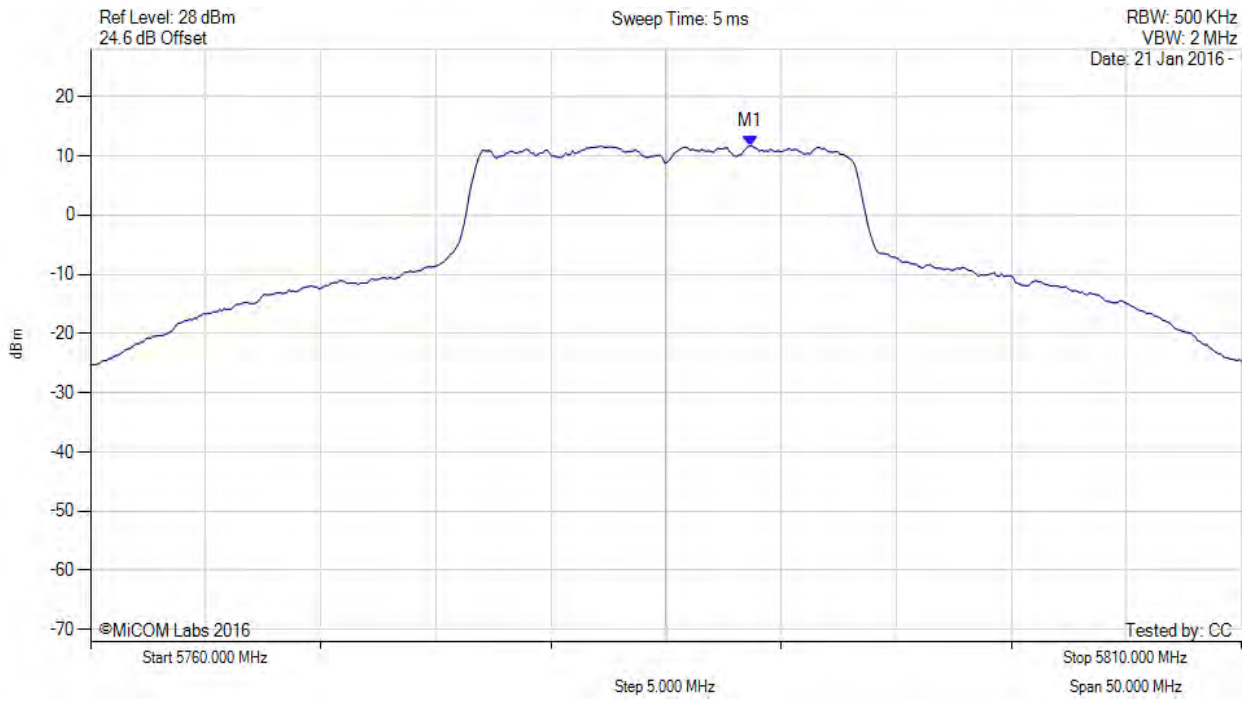
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5788.700 MHz : 11.694 dBm M1 + DCCF : 5788.700 MHz : 11.871 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 30.0 dBm Margin: -18.1 dB

back to matrix

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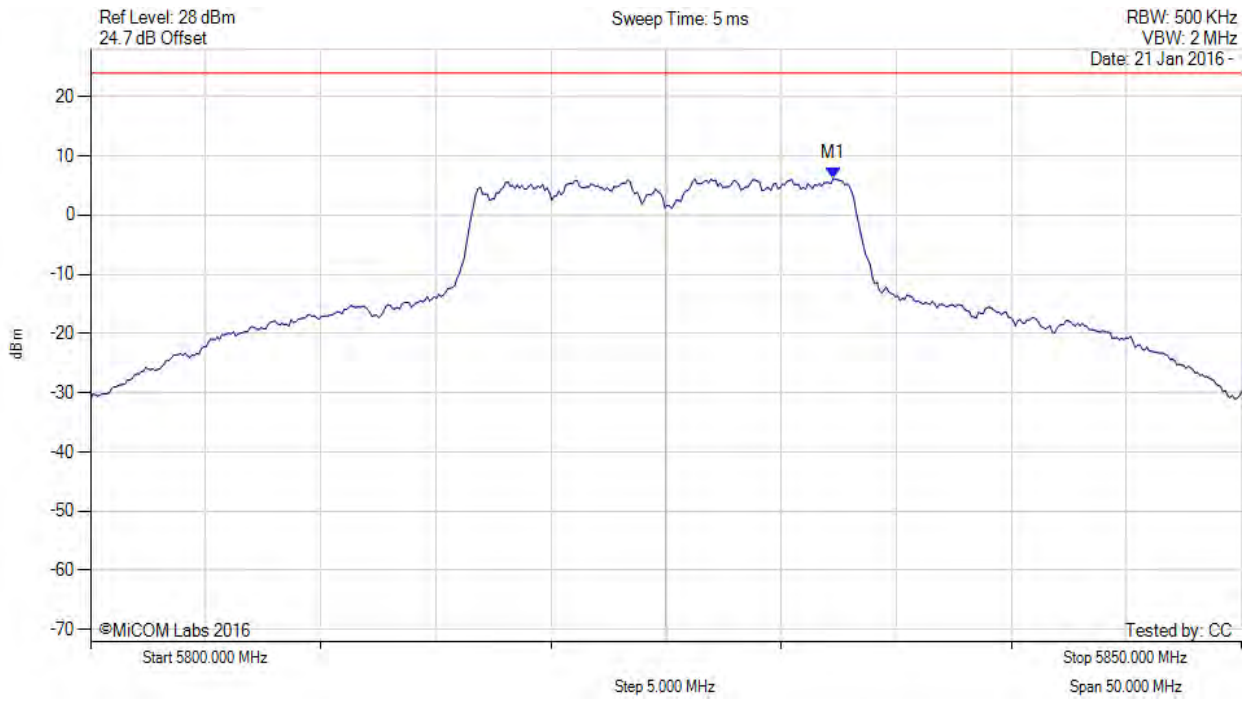
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5832.265 MHz : 6.179 dBm	Limit: ≤ 24.000 dBm

back to matrix

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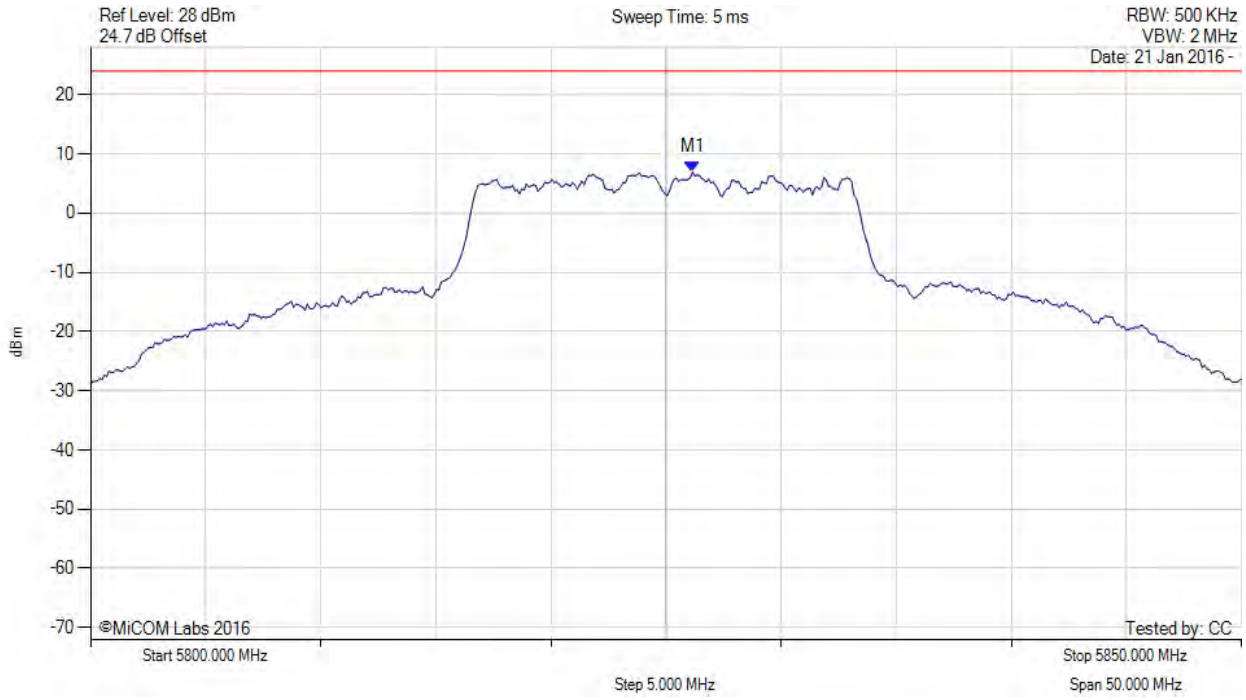
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5826.152 MHz : 6.885 dBm	Limit: ≤ 24.000 dBm

back to matrix

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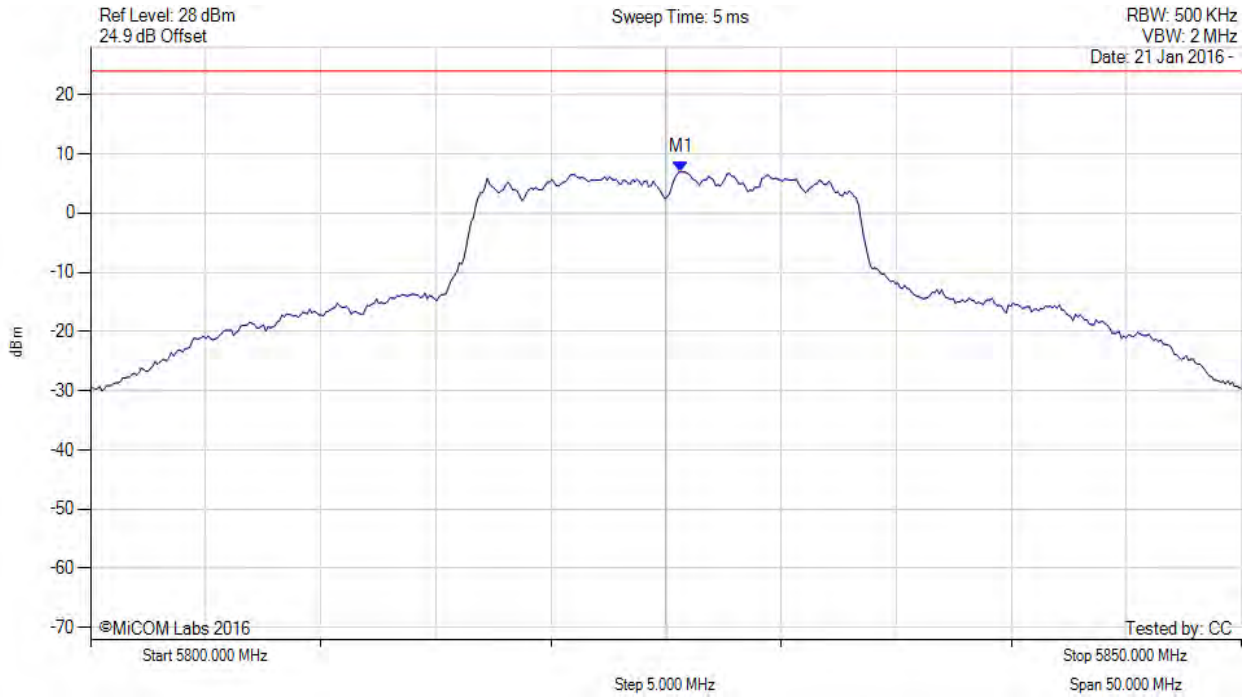
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5825.651 MHz : 6.964 dBm	Limit: ≤ 24.000 dBm

back to matrix

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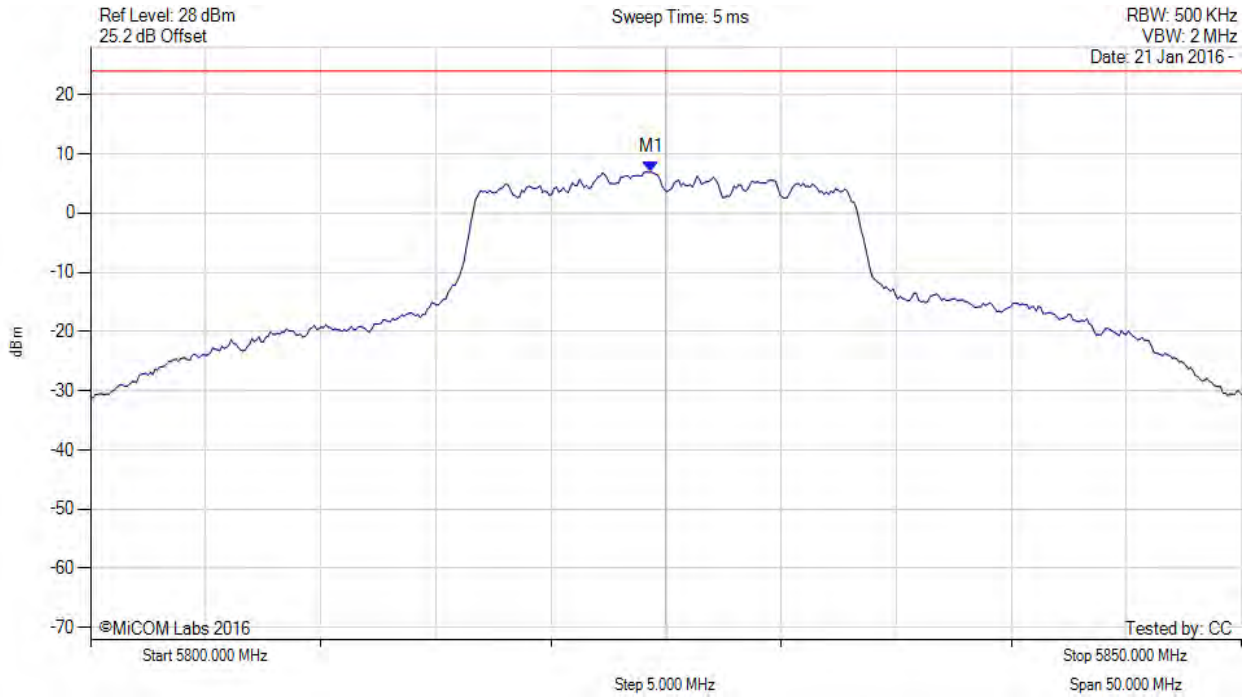
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5824.349 MHz : 6.946 dBm	Limit: ≤ 24.000 dBm

back to matrix

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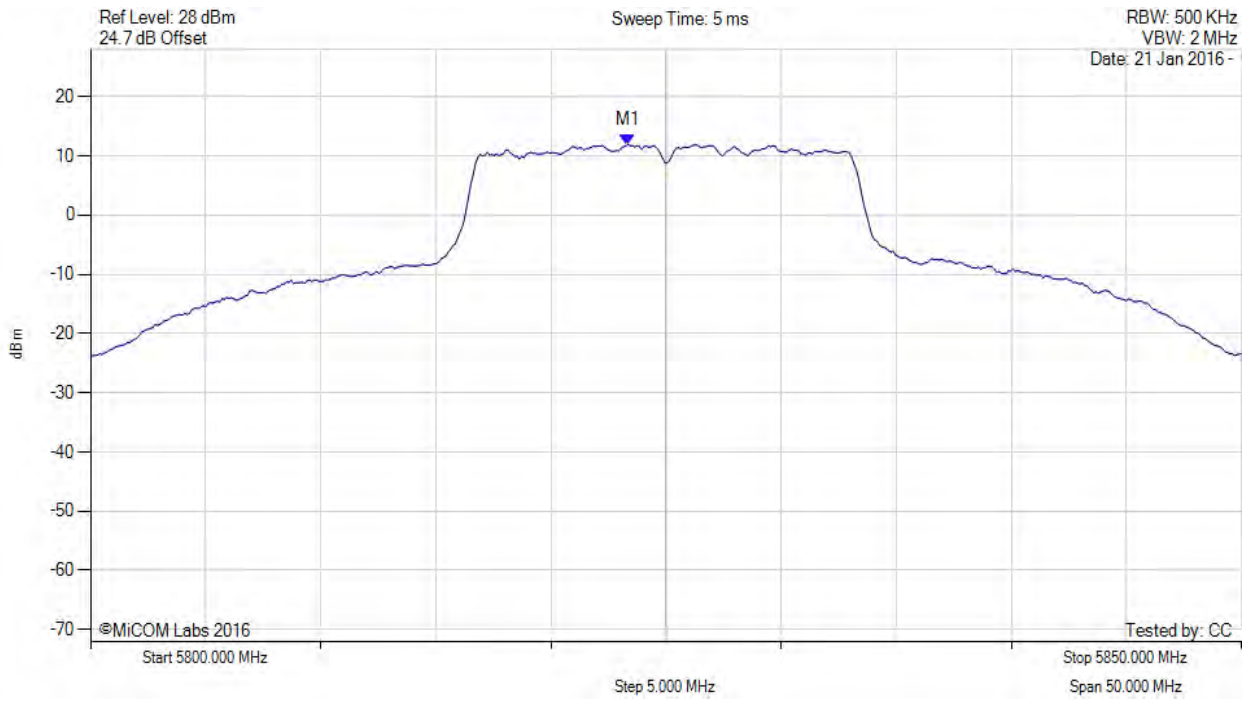
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5823.300 MHz : 11.927 dBm M1 + DCCF : 5823.300 MHz : 12.104 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 30.0 dBm Margin: -17.9 dB

back to matrix

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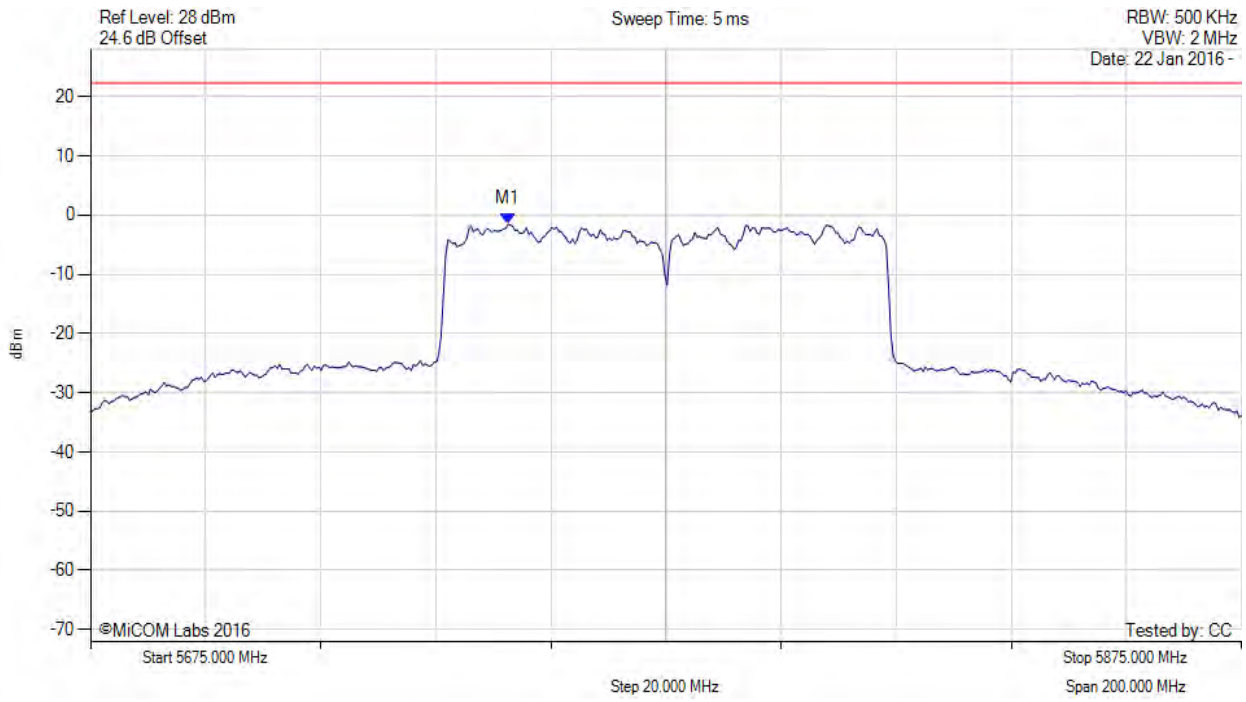
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5747.545 MHz : -1.560 dBm	Limit: ≤ 22.280 dBm

back to matrix

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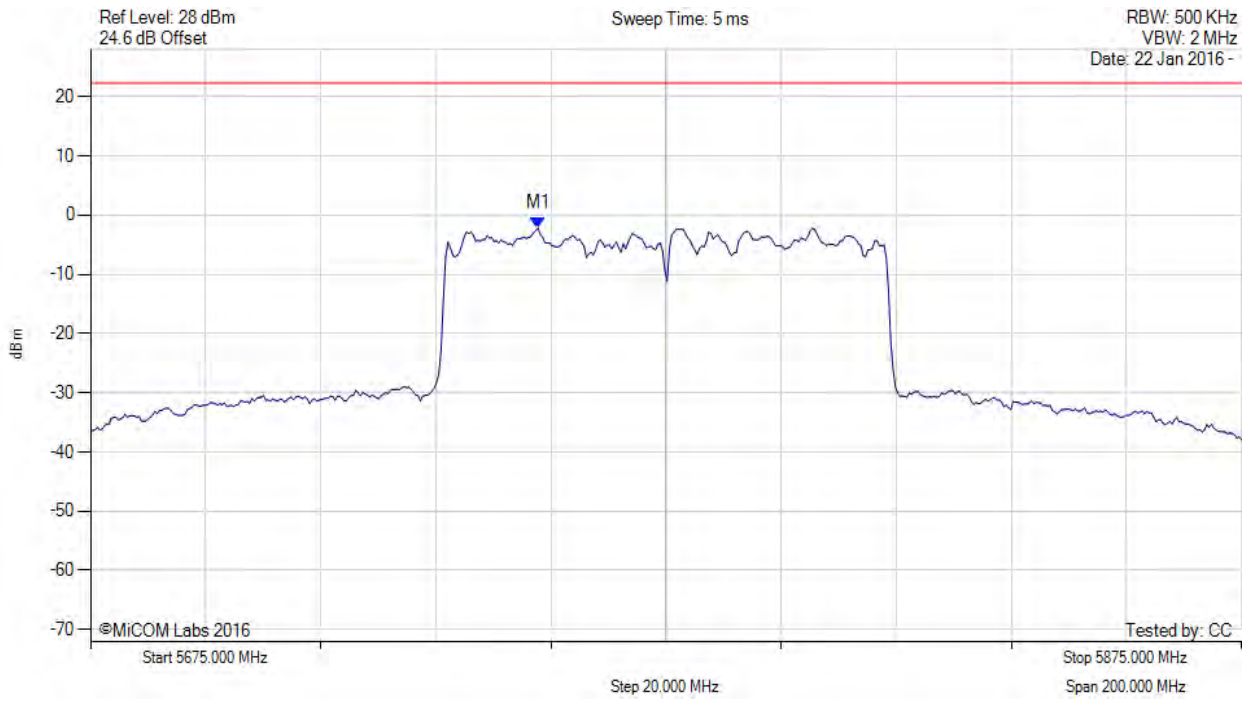
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5752.756 MHz : -2.195 dBm	Limit: ≤ 22.280 dBm

back to matrix

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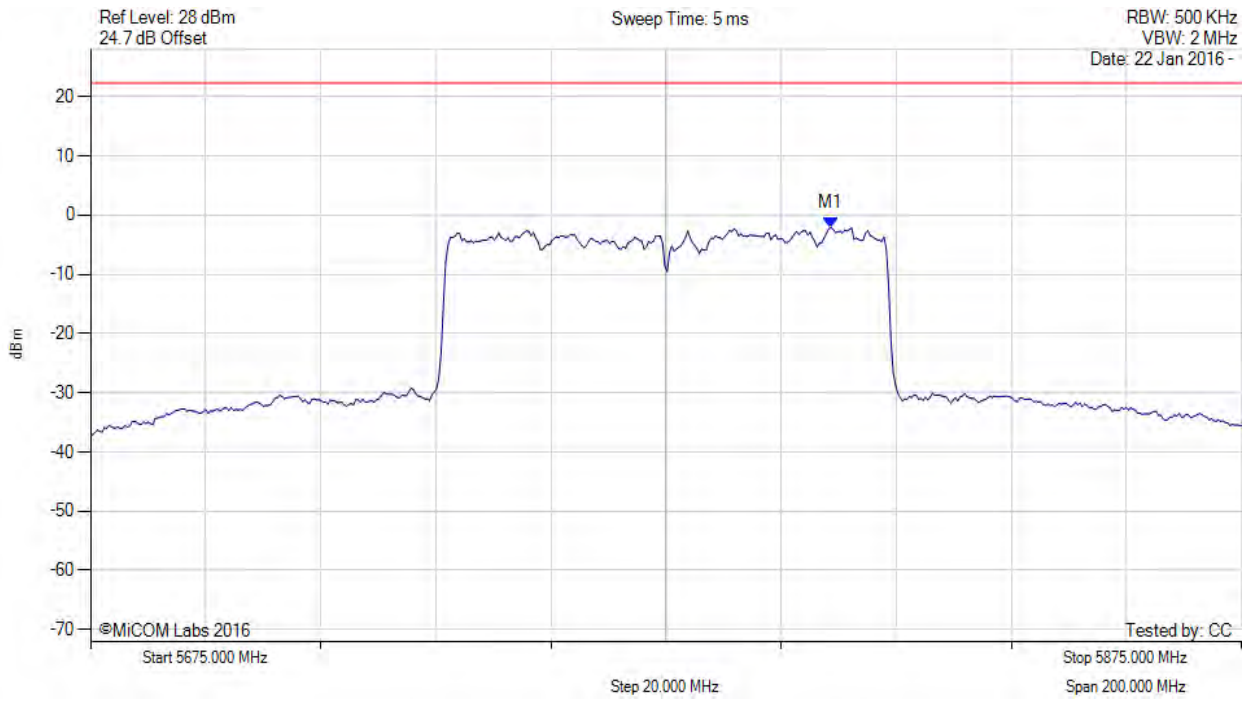
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5803.657 MHz : -2.119 dBm	Limit: ≤ 22.280 dBm

back to matrix

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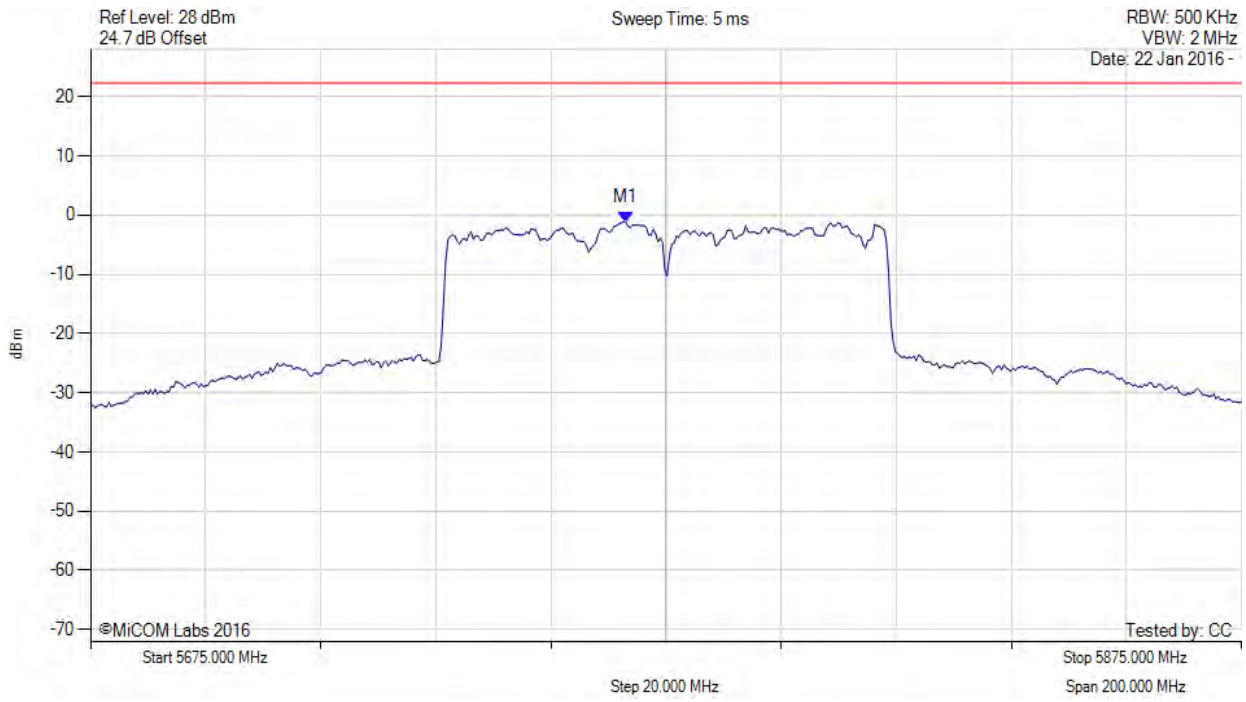
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5767.986 MHz : -1.162 dBm	Limit: ≤ 22.280 dBm

back to matrix

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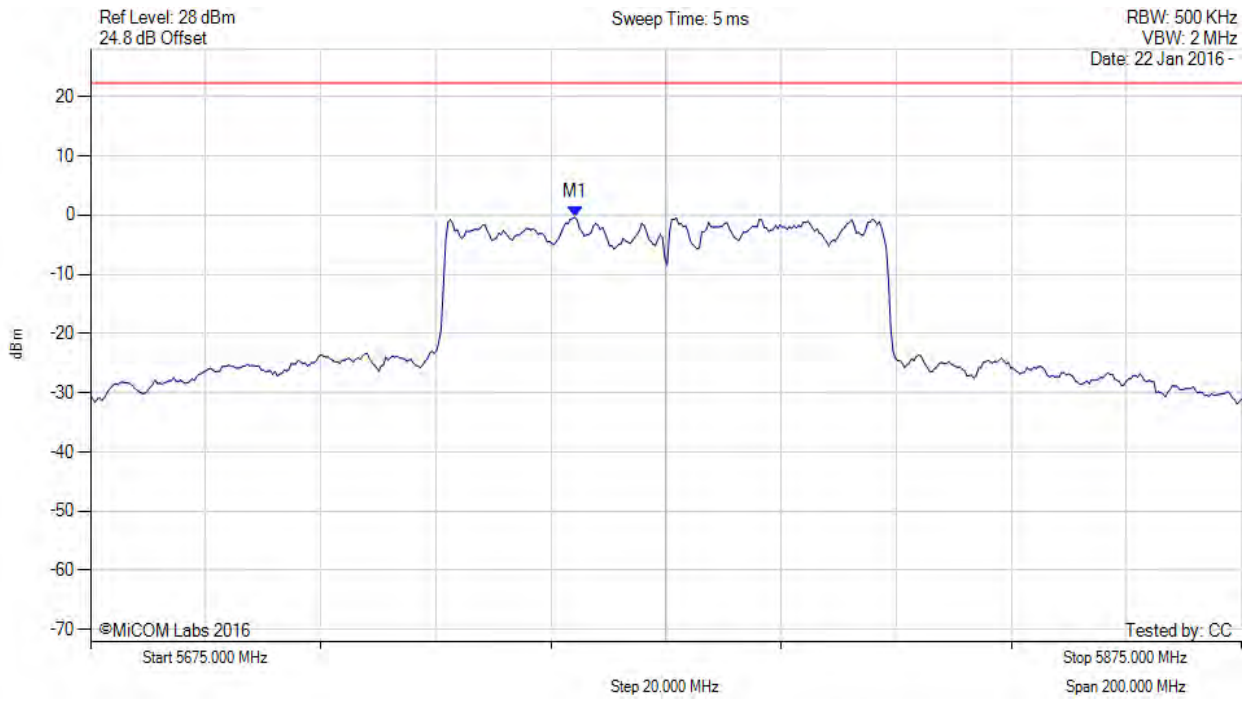
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5759.168 MHz : -0.351 dBm	Limit: ≤ 22.280 dBm

back to matrix

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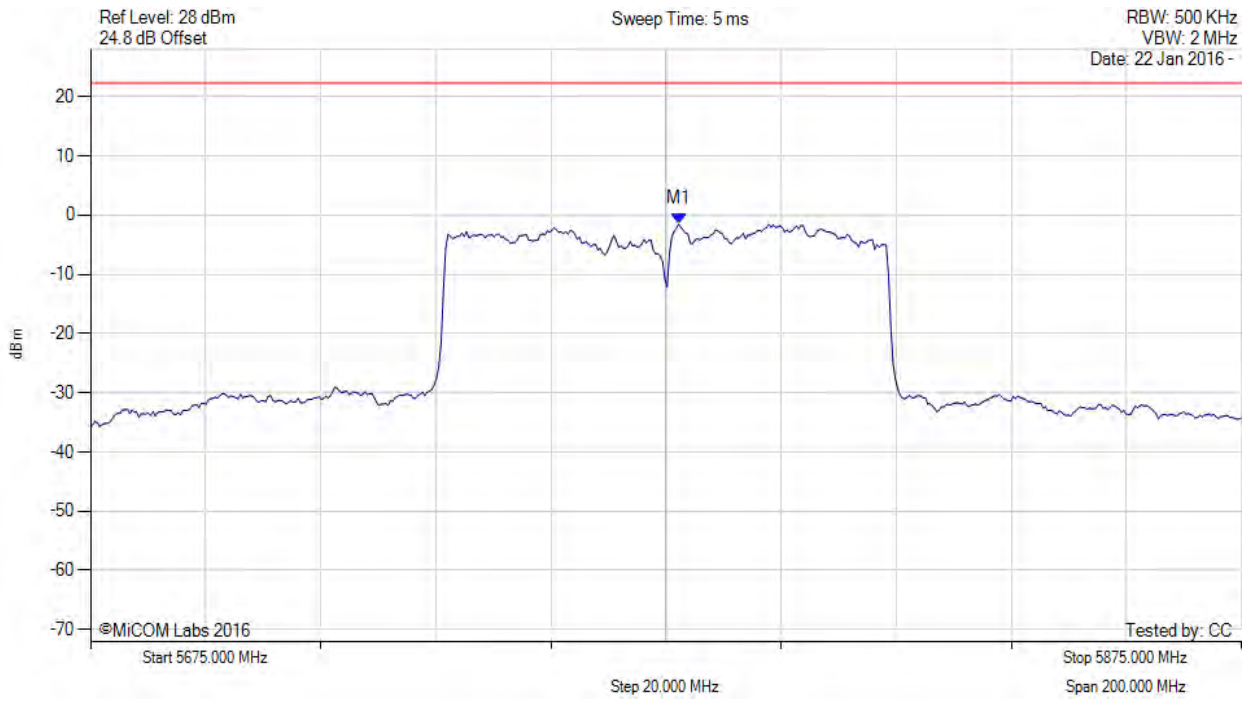
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5777.204 MHz : -1.526 dBm	Limit: ≤ 22.280 dBm

back to matrix

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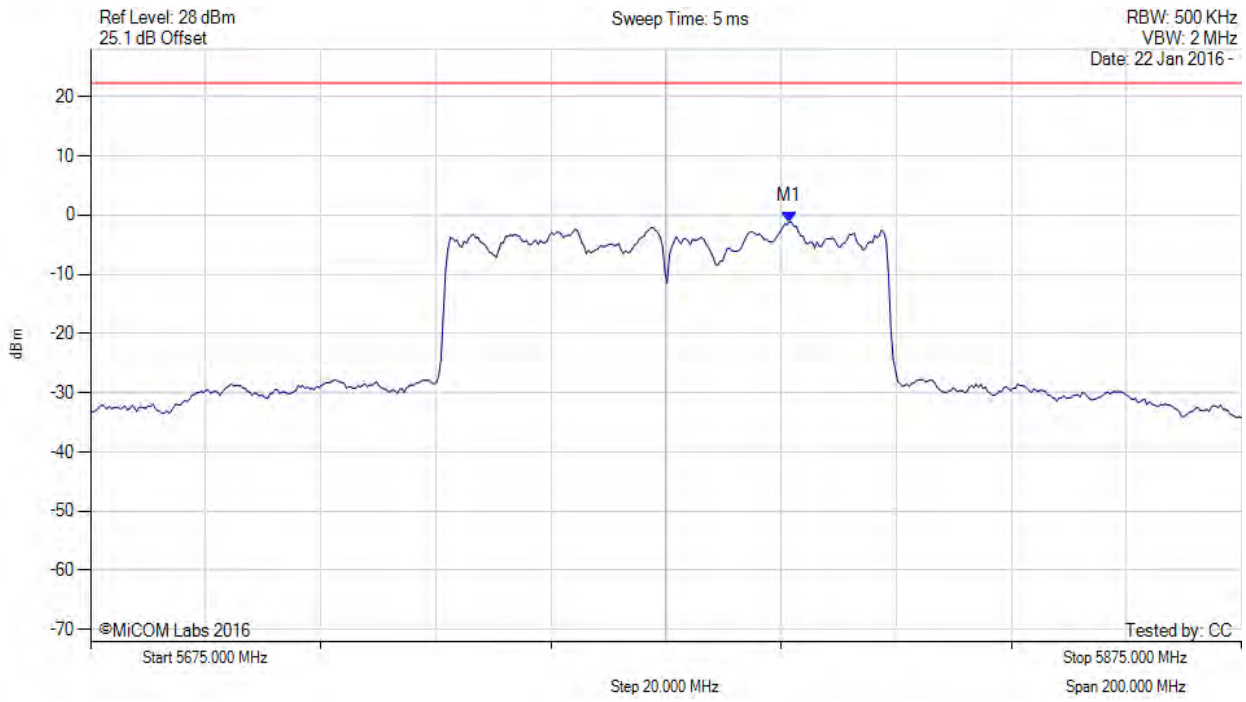
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5796.443 MHz : -1.128 dBm	Limit: ≤ 22.280 dBm

back to matrix

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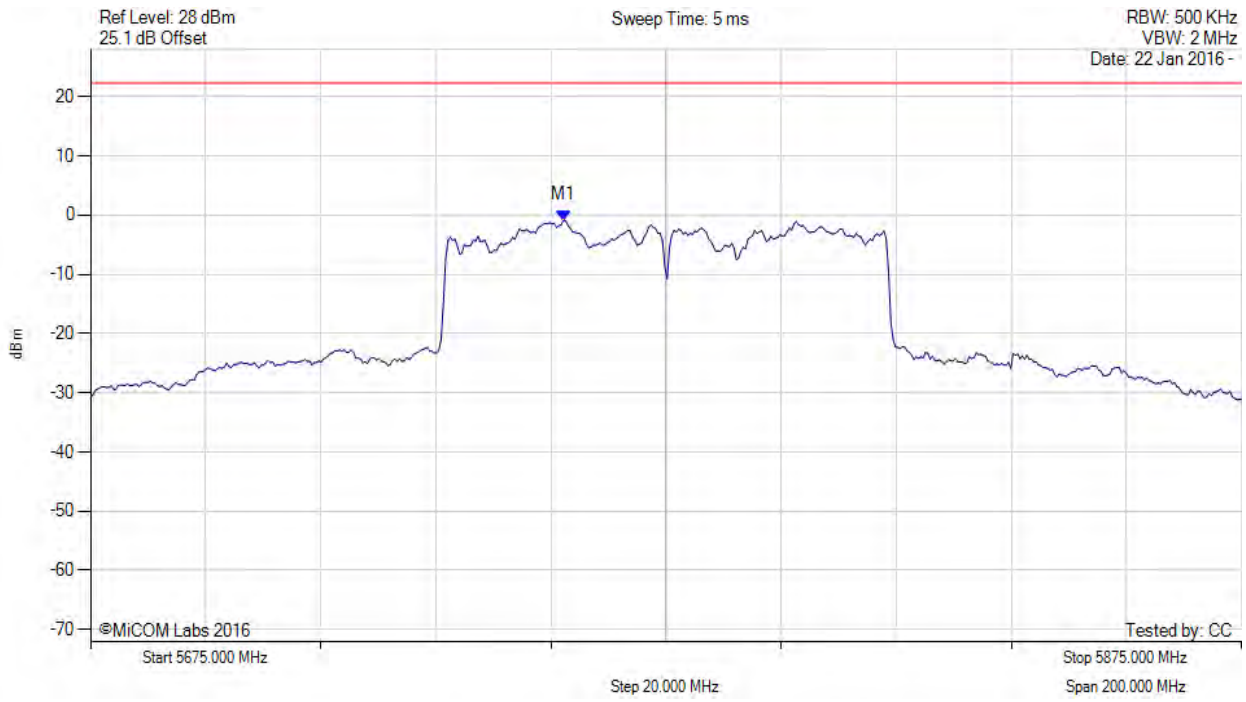
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5757.164 MHz : -0.903 dBm	Limit: ≤ 22.280 dBm

back to matrix

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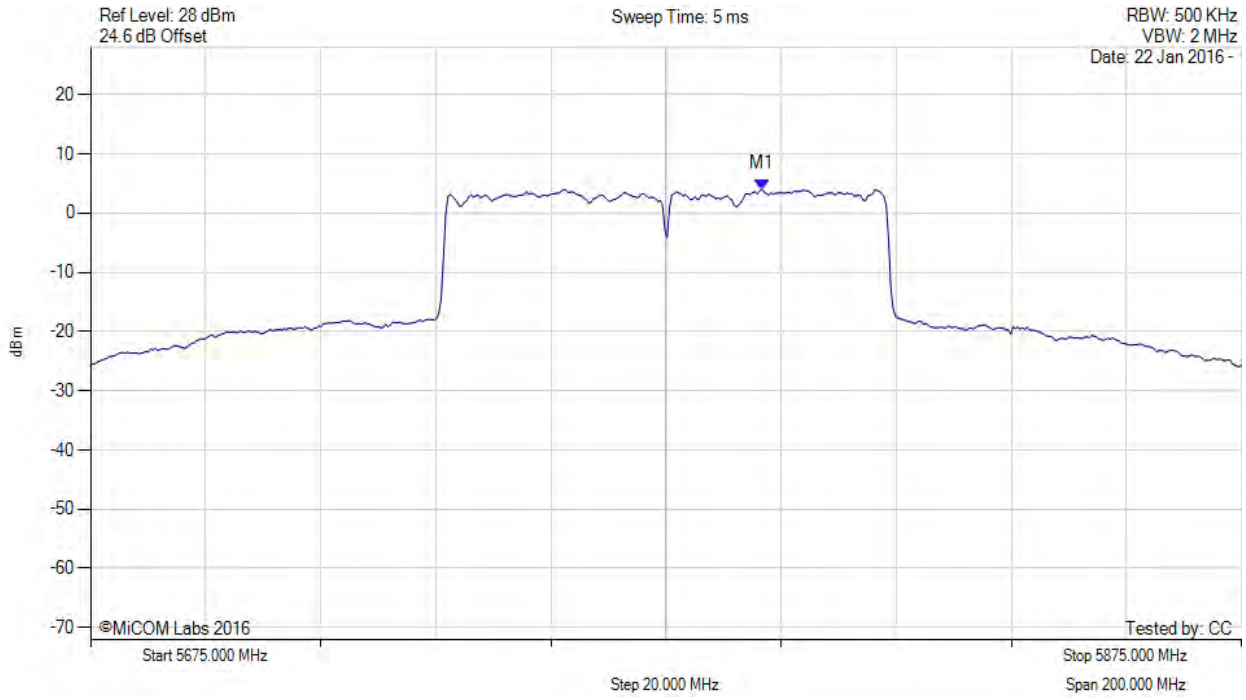
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.600 MHz : 4.016 dBm M1 + DCCF : 5791.600 MHz : 4.426 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 28.3 dBm Margin: -23.9 dB

back to matrix

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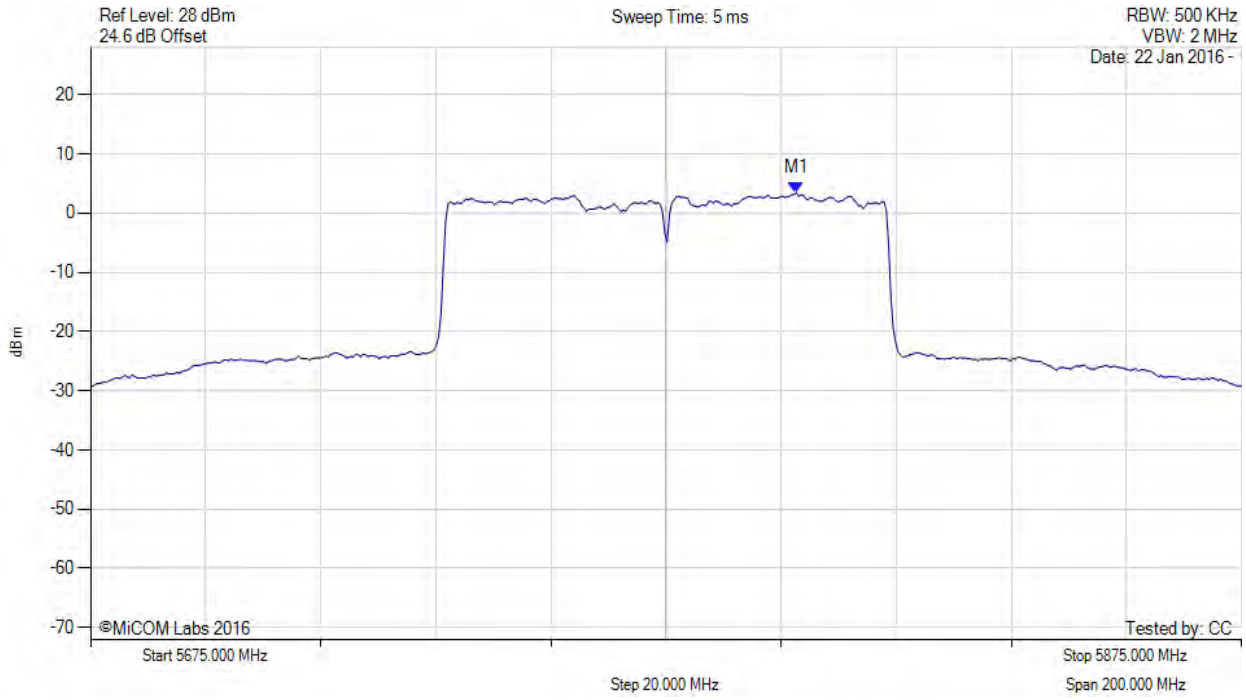
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.600 MHz : 3.456 dBm M1 + DCCF : 5797.600 MHz : 3.866 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 28.3 dBm Margin: -24.5 dB

back to matrix

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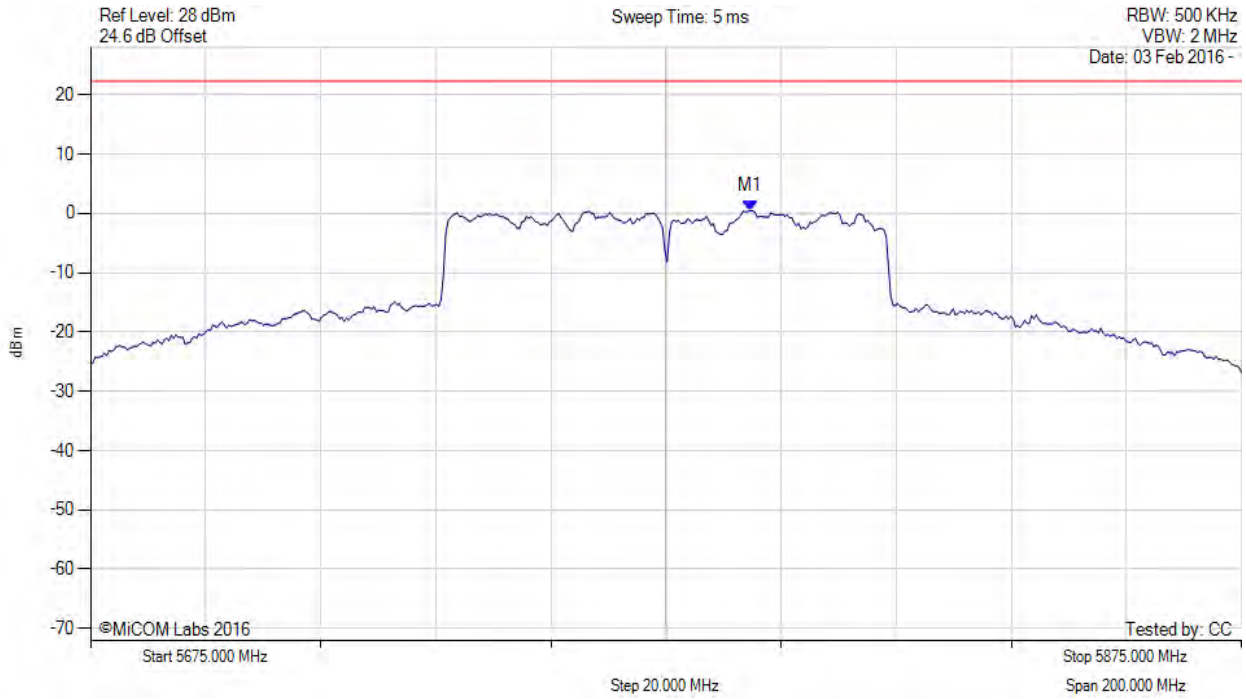
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5789.629 MHz : 0.429 dBm	Limit: ≤ 22.280 dBm

back to matrix

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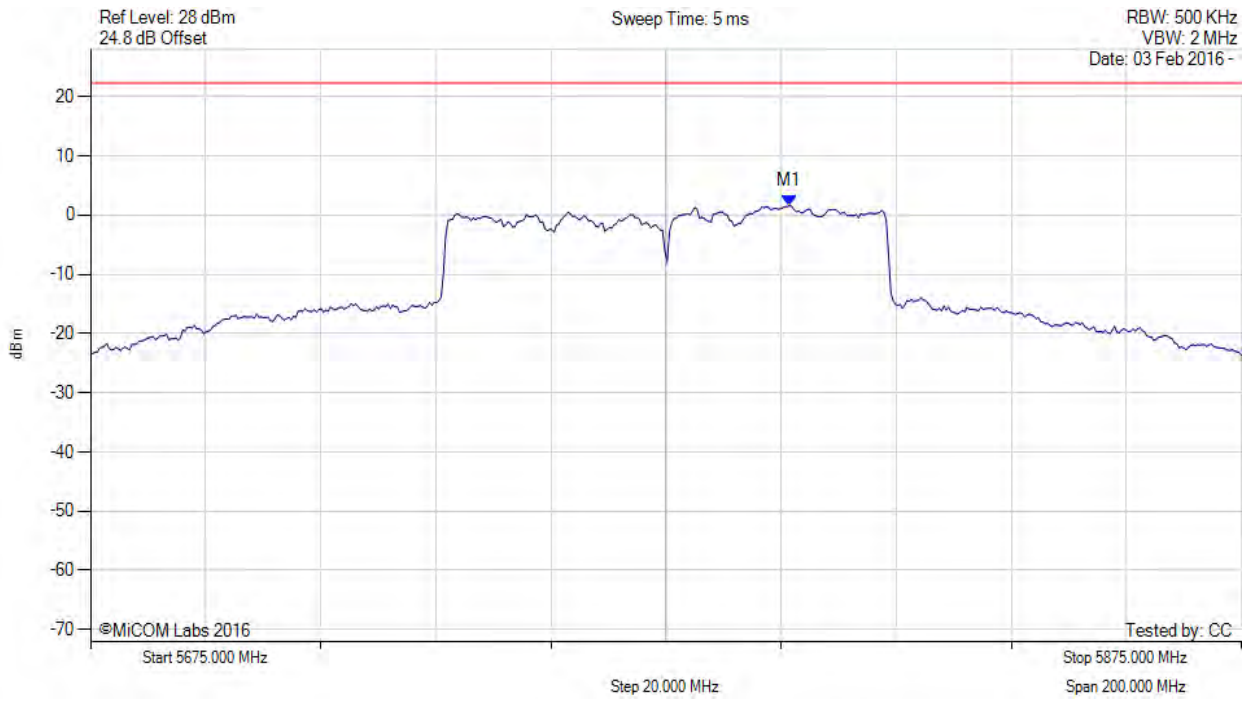
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5796.443 MHz : 1.581 dBm	Limit: ≤ 22.280 dBm

back to matrix

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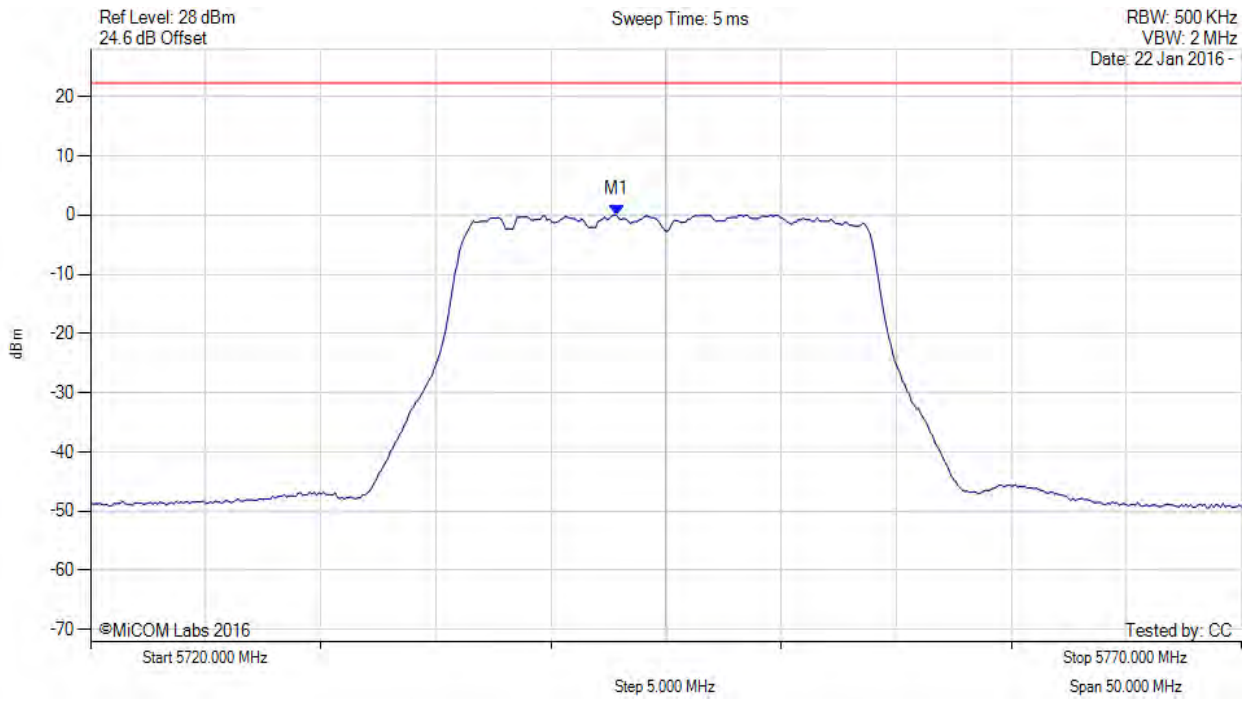
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5742.846 MHz : 0.030 dBm	Limit: ≤ 22.280 dBm

back to matrix

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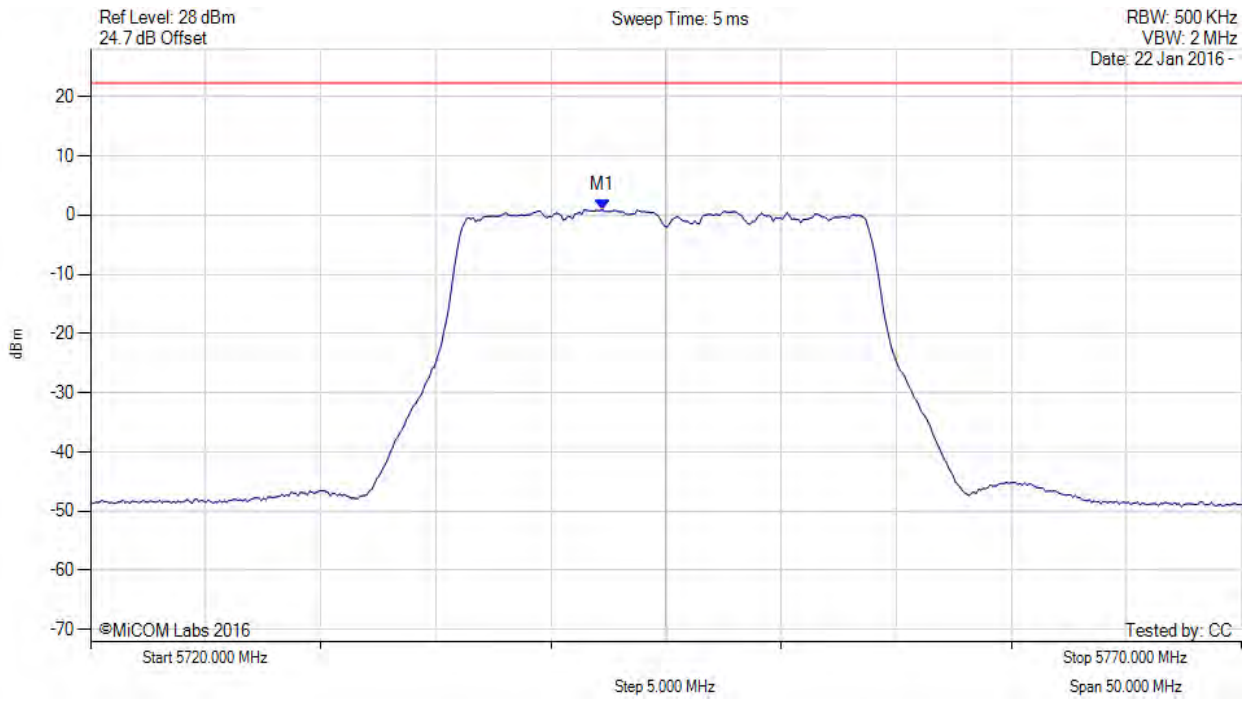
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5742.244 MHz : 0.892 dBm	Limit: ≤ 22.280 dBm

back to matrix

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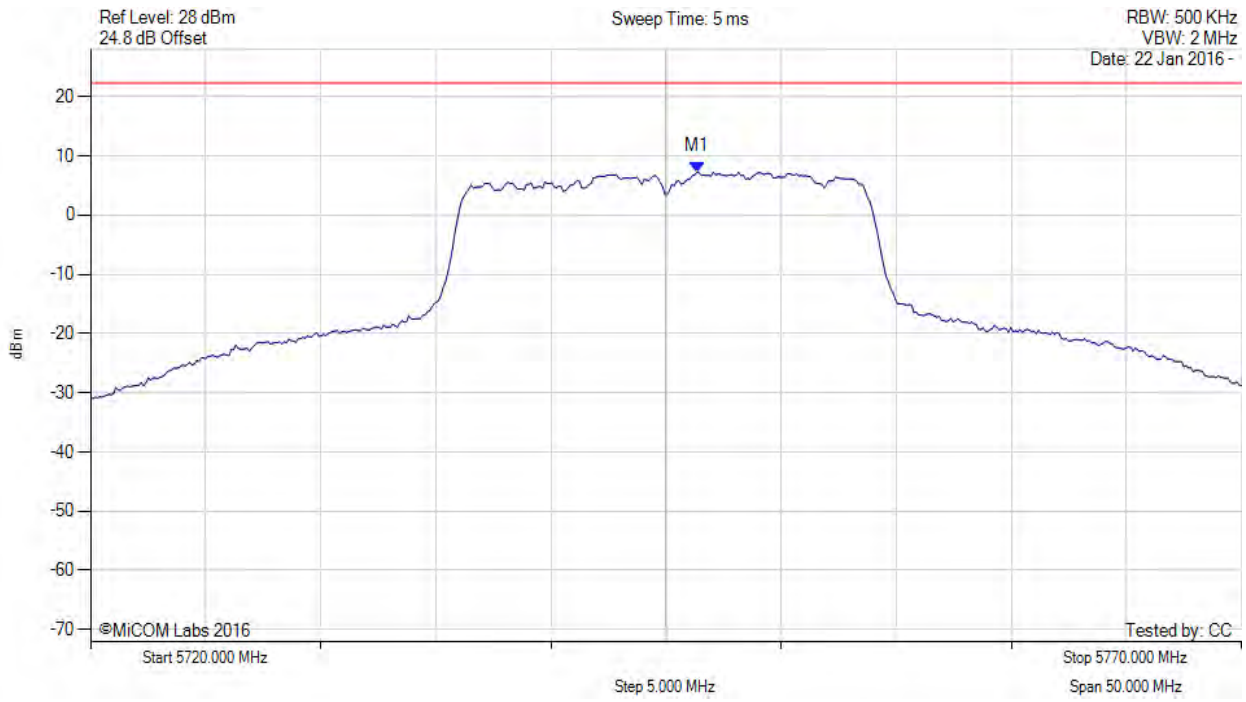
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.353 MHz : 7.274 dBm	Limit: ≤ 22.280 dBm

back to matrix

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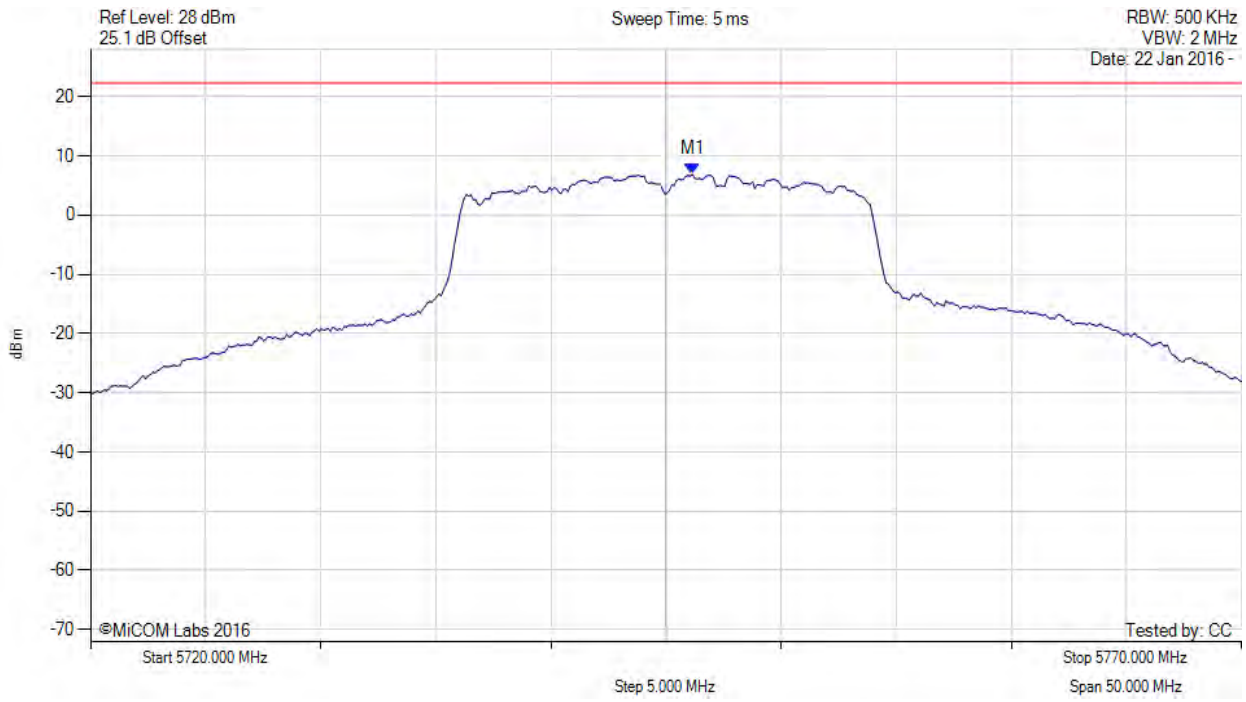
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.152 MHz : 6.872 dBm	Limit: ≤ 22.280 dBm

back to matrix

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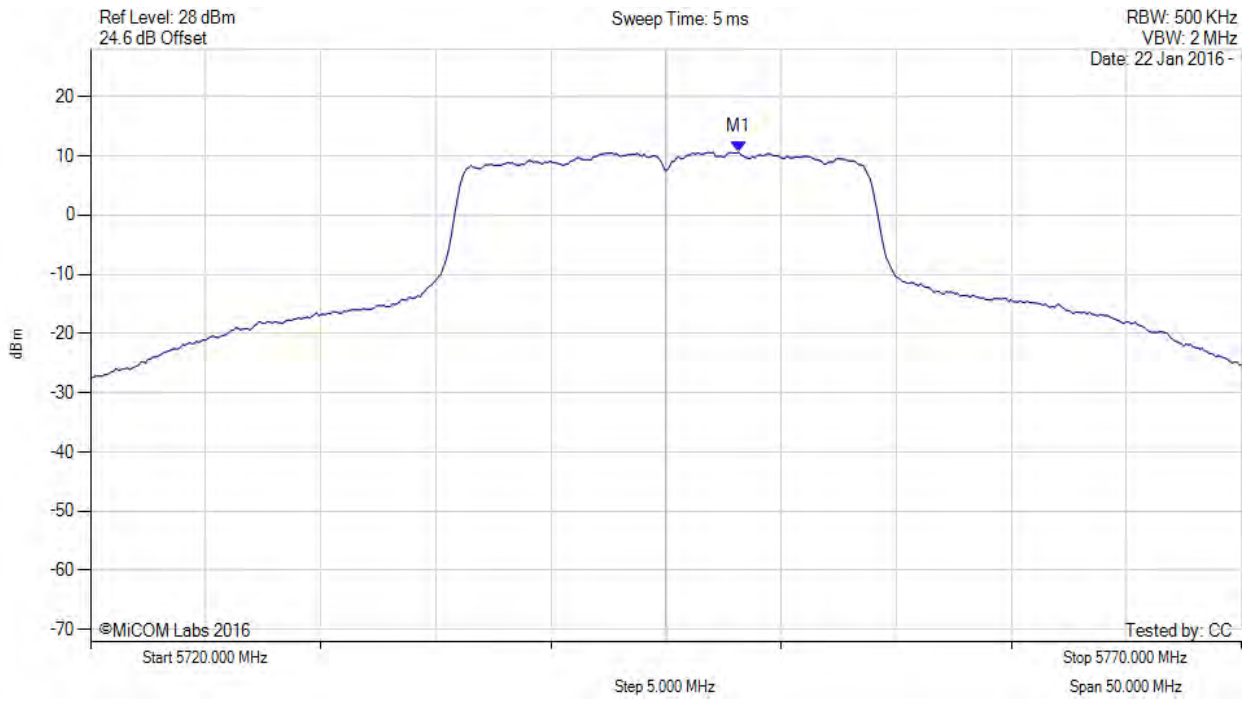
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.200 MHz : 10.617 dBm M1 + DCCF : 5748.200 MHz : 10.705 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 28.3 dBm Margin: -17.6 dB

back to matrix

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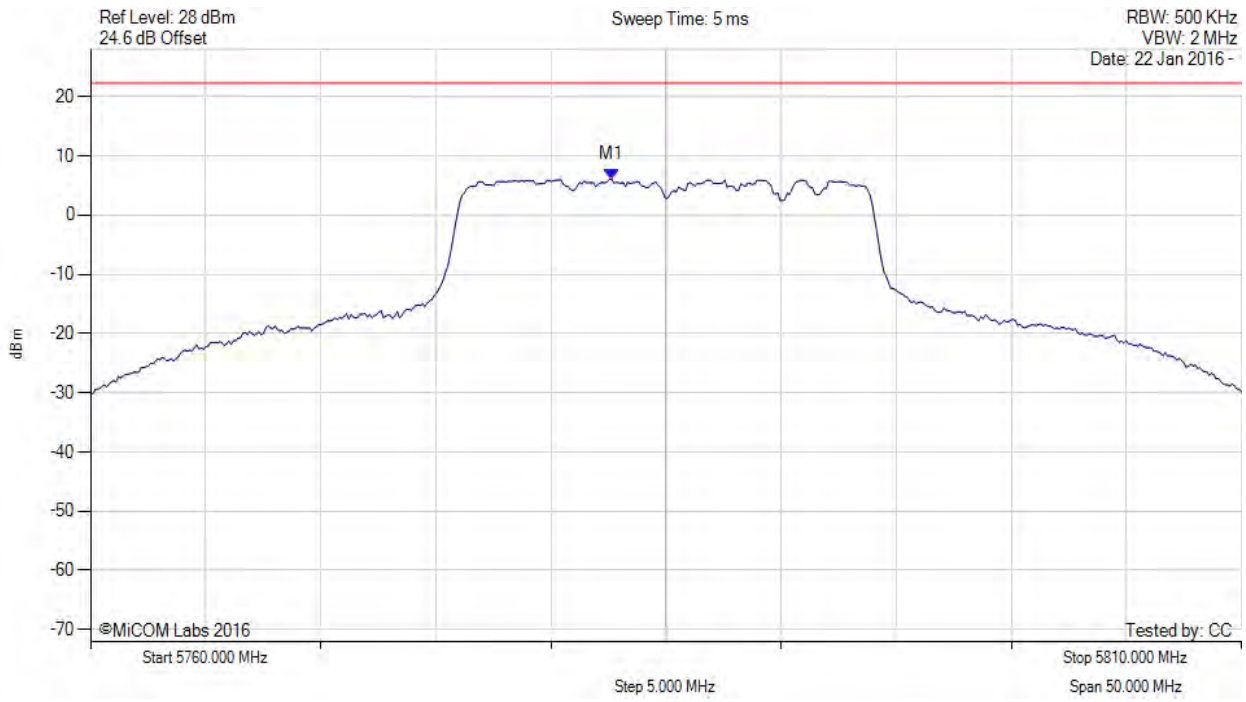
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5782.645 MHz : 6.065 dBm	Limit: ≤ 22.280 dBm

back to matrix

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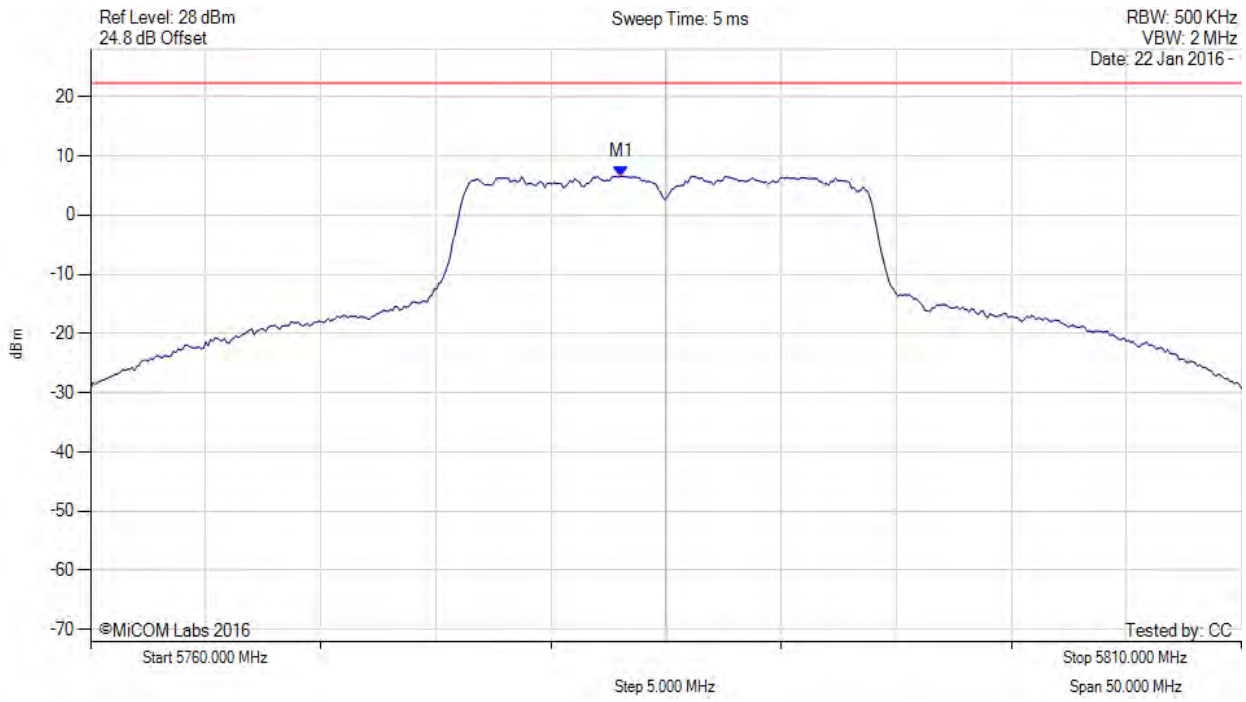
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5783.046 MHz : 6.561 dBm	Channel Frequency: 5785.00 MHz

back to matrix

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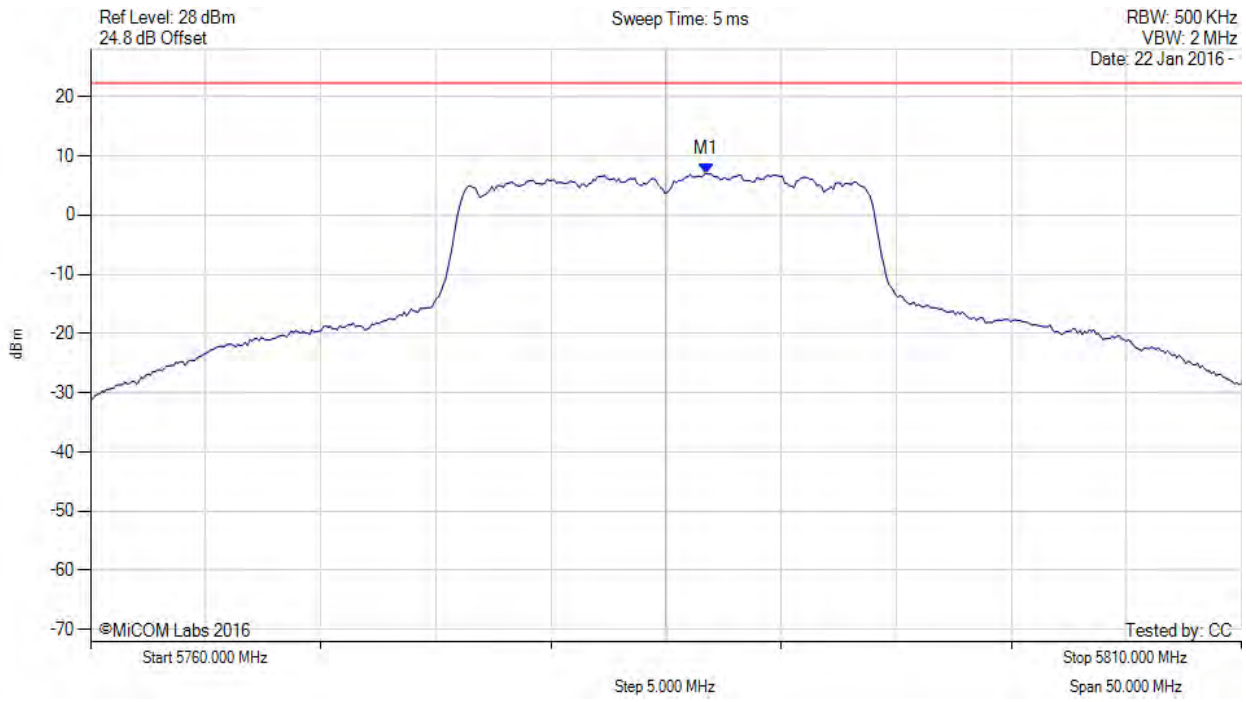
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5786.754 MHz : 7.026 dBm	Limit: ≤ 22.280 dBm

back to matrix

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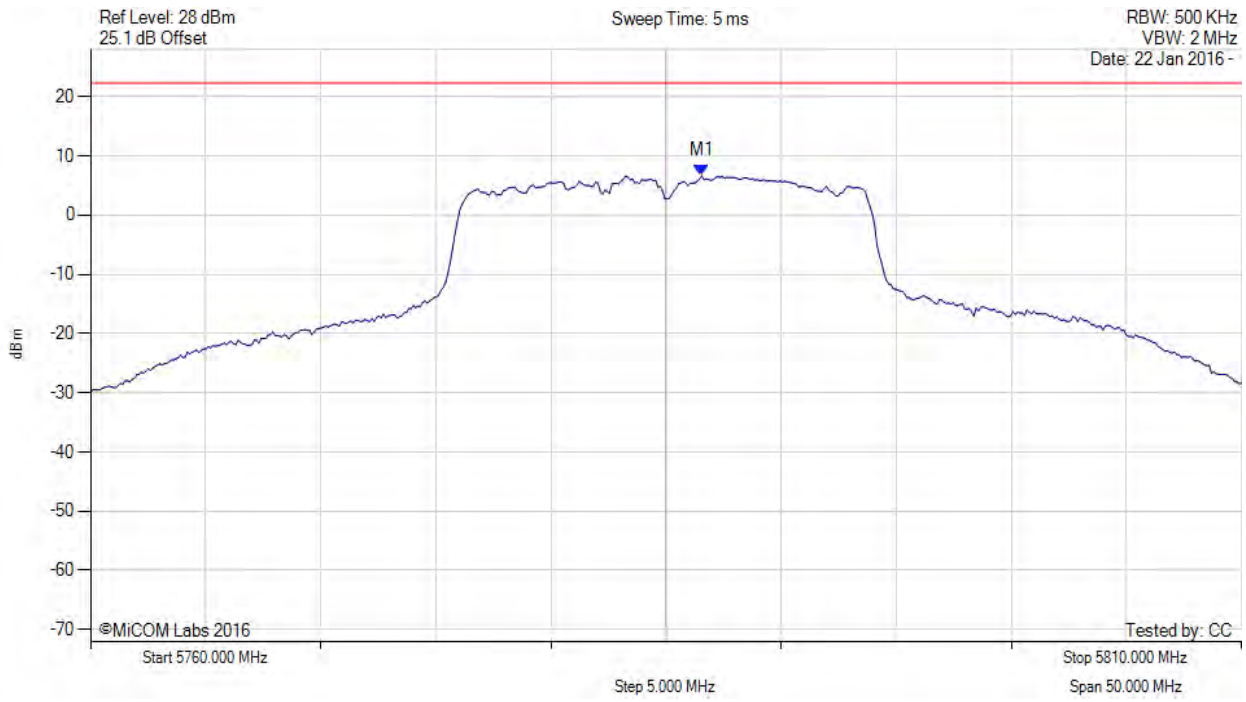
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5786.553 MHz : 6.660 dBm	Limit: ≤ 22.280 dBm

back to matrix

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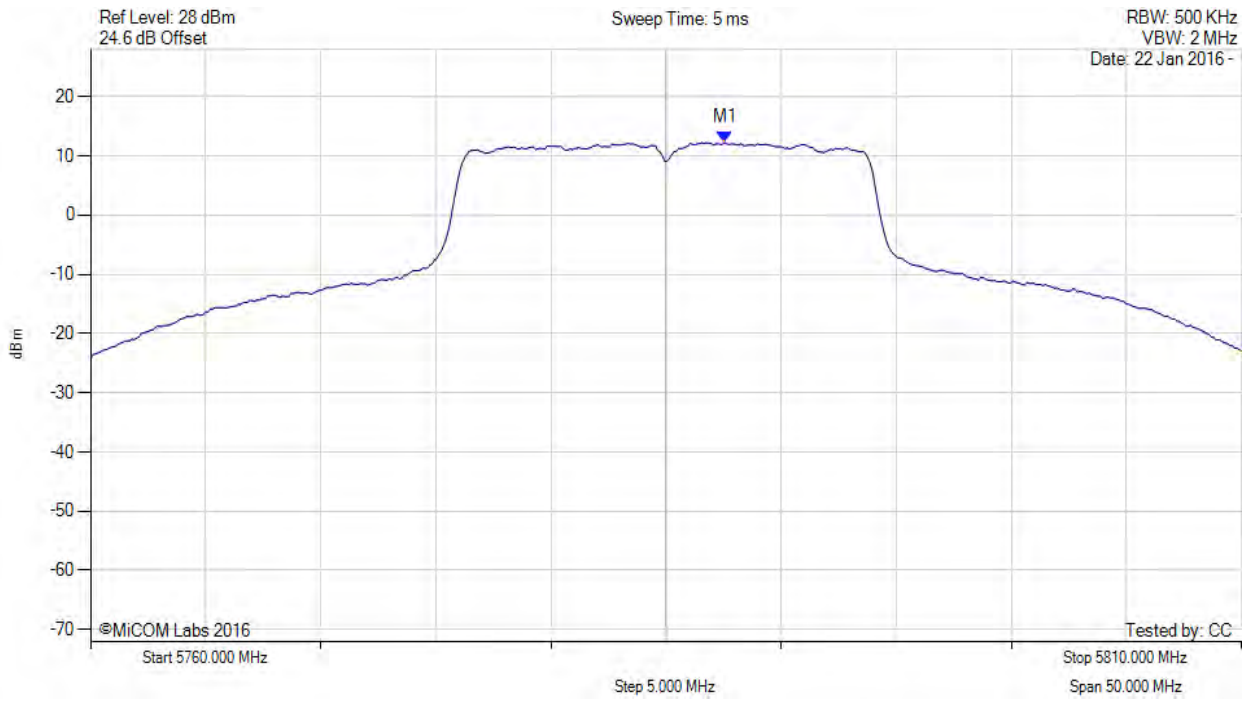
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5787.600 MHz : 12.273 dBm M1 + DCCF : 5787.600 MHz : 12.361 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 28.3 dBm Margin: -16.0 dB

back to matrix

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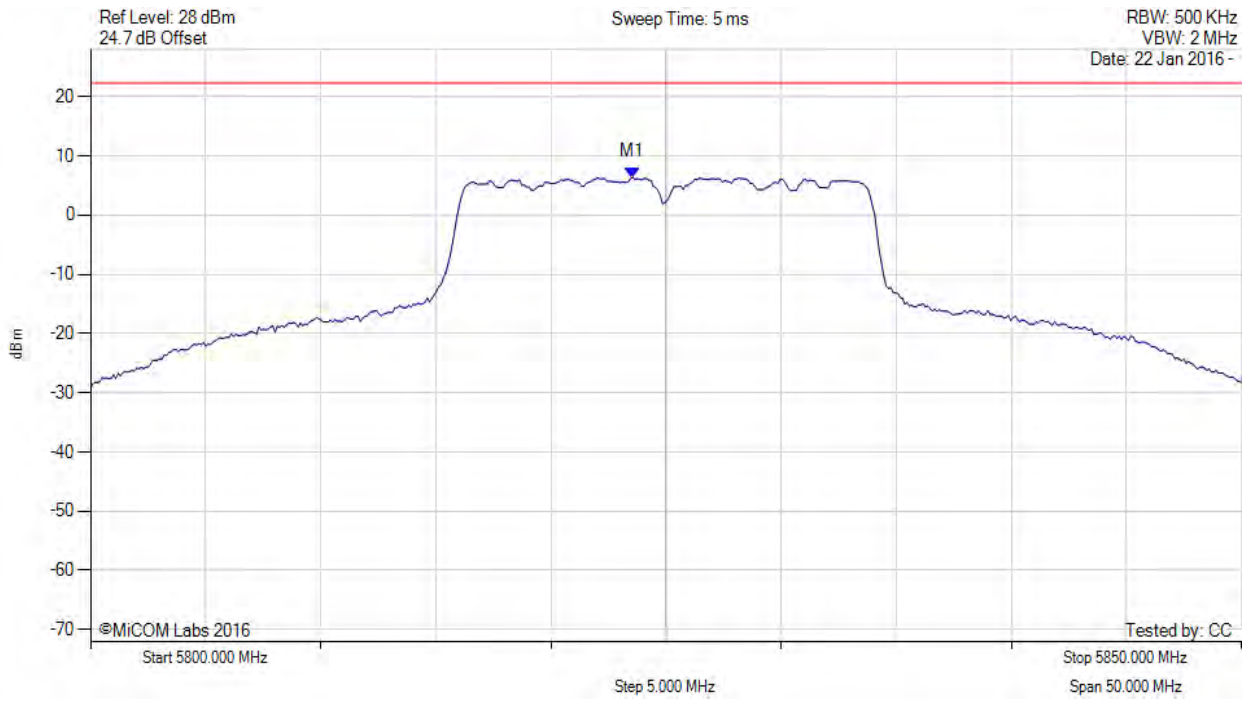
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5823.547 MHz : 6.366 dBm	Limit: ≤ 22.280 dBm

back to matrix

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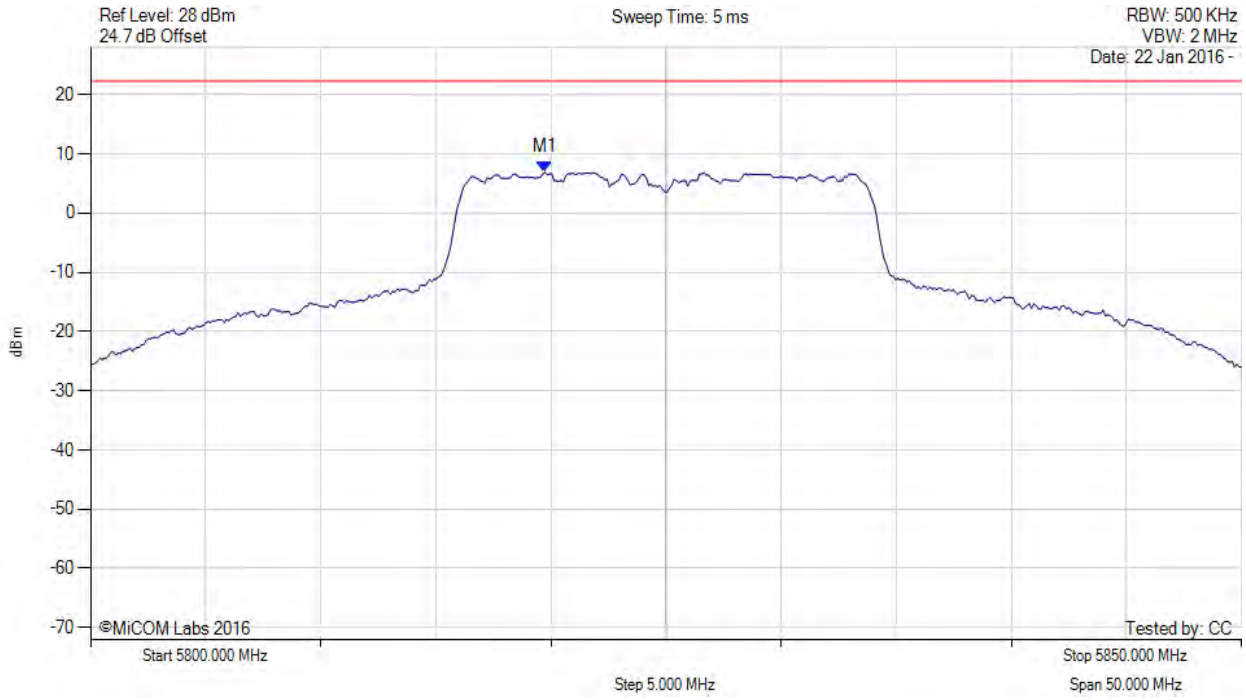
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5819.739 MHz : 6.872 dBm	Limit: ≤ 22.280 dBm

back to matrix

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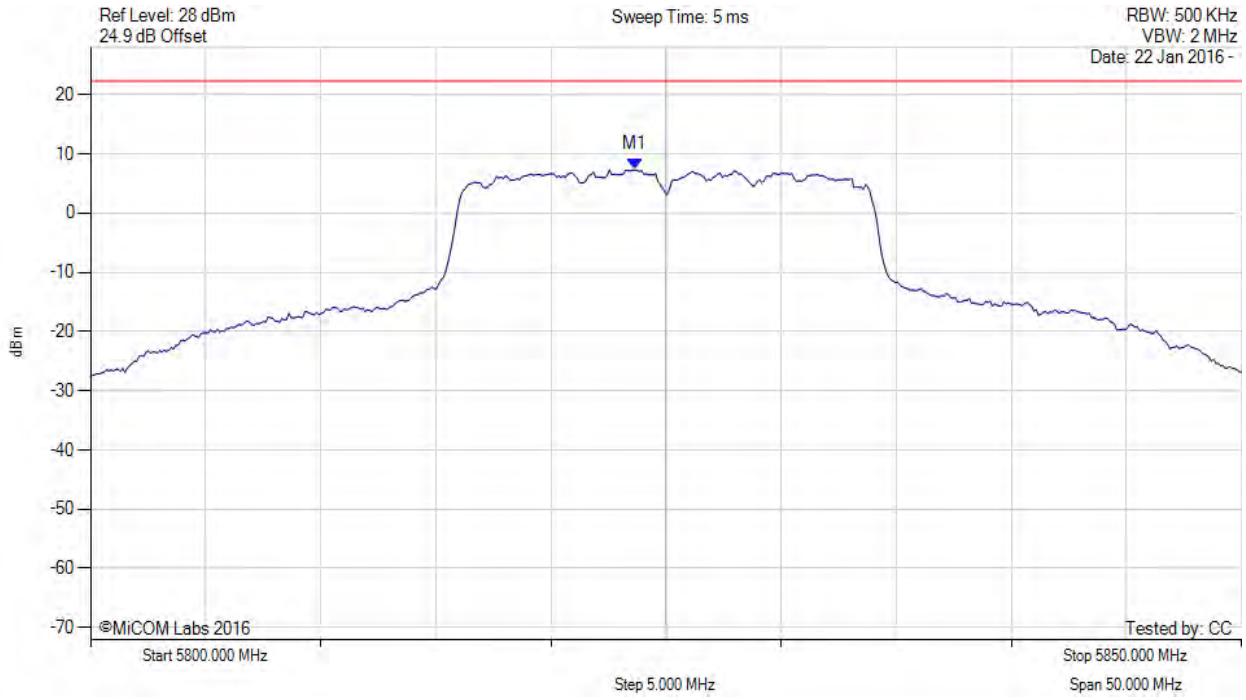
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5823.647 MHz : 7.329 dBm	Limit: ≤ 22.280 dBm

back to matrix

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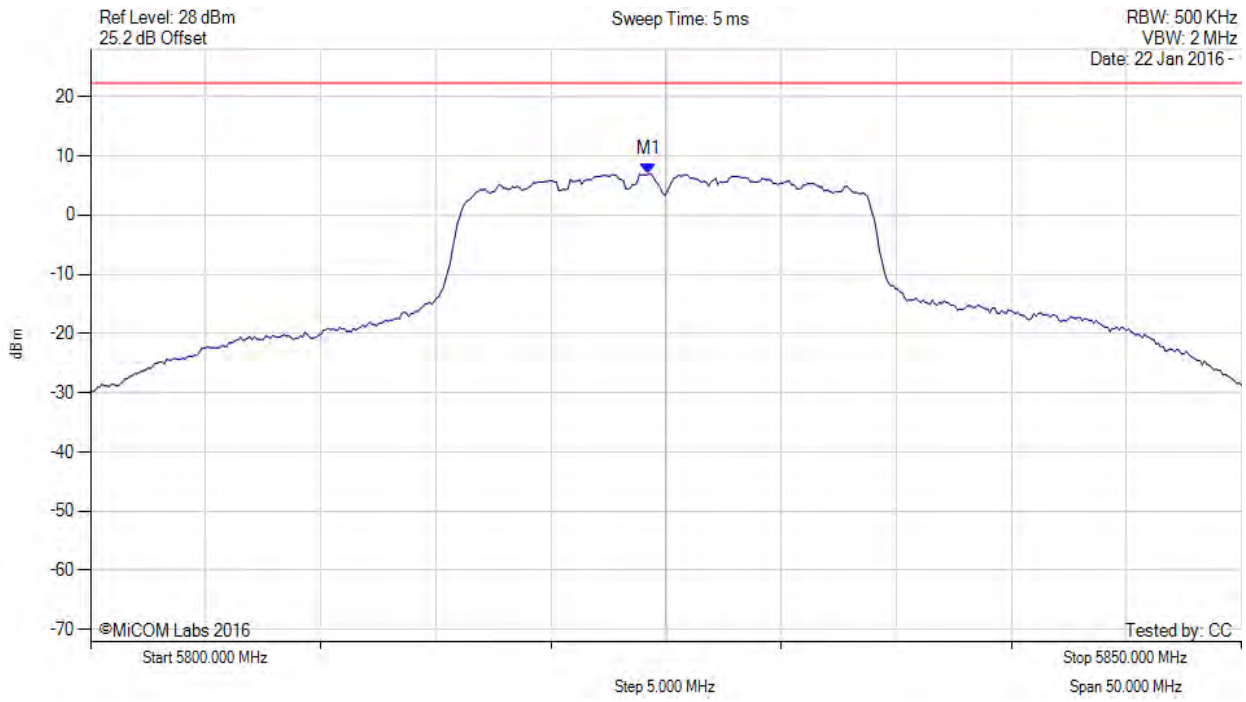
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5824.248 MHz : 6.923 dBm	Limit: ≤ 22.280 dBm

back to matrix

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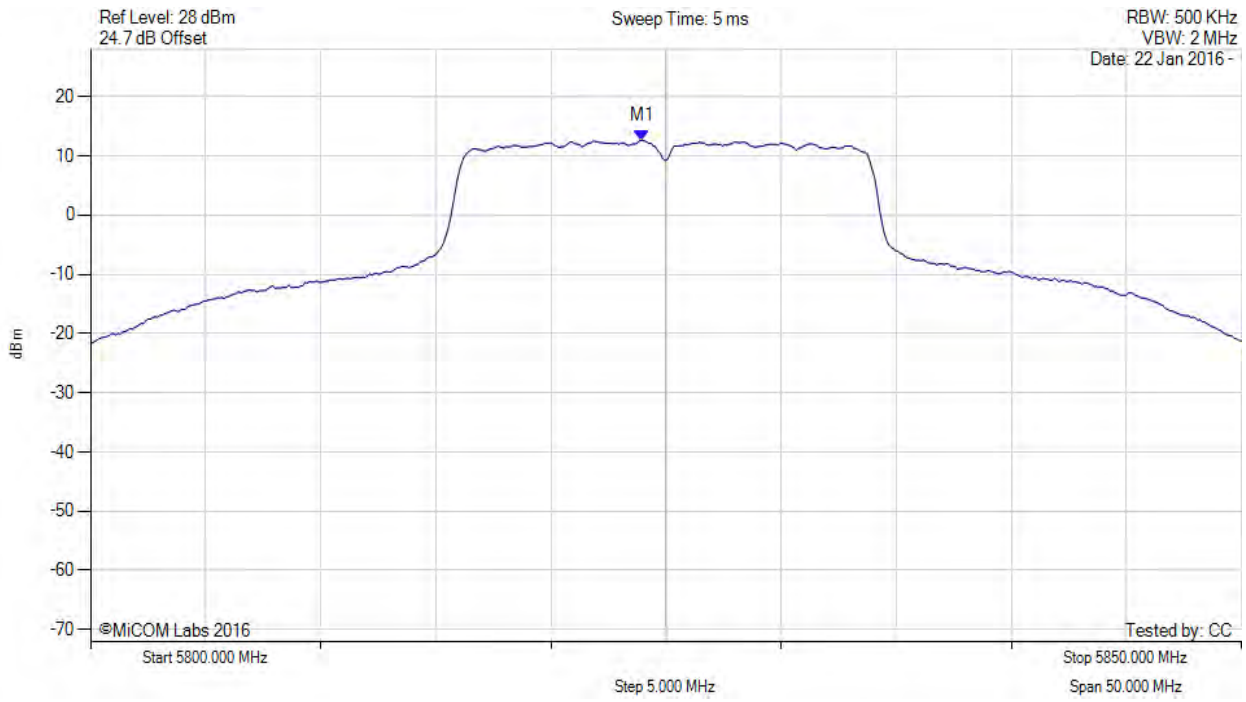
POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5823.900 MHz : 12.635 dBm M1 + DCCF : 5823.900 MHz : 12.723 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 28.3 dBm Margin: -15.6 dB

back to matrix

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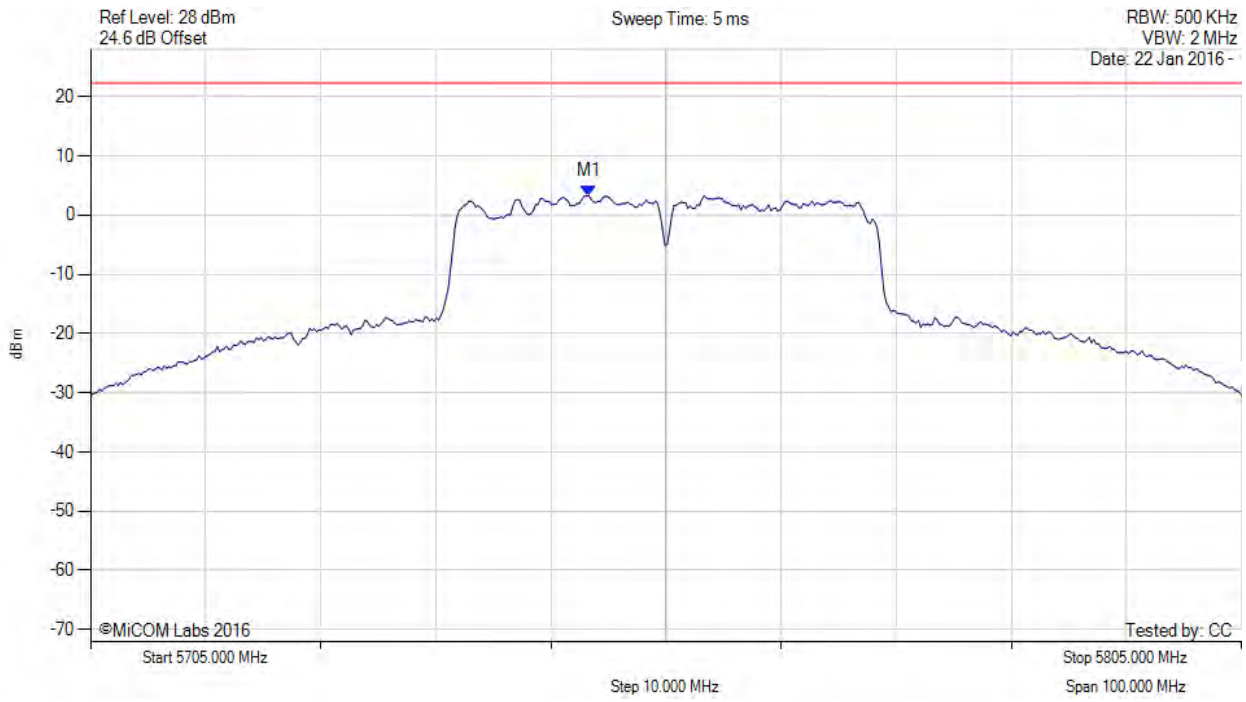
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.287 MHz : 3.268 dBm	Limit: ≤ 22.280 dBm

back to matrix

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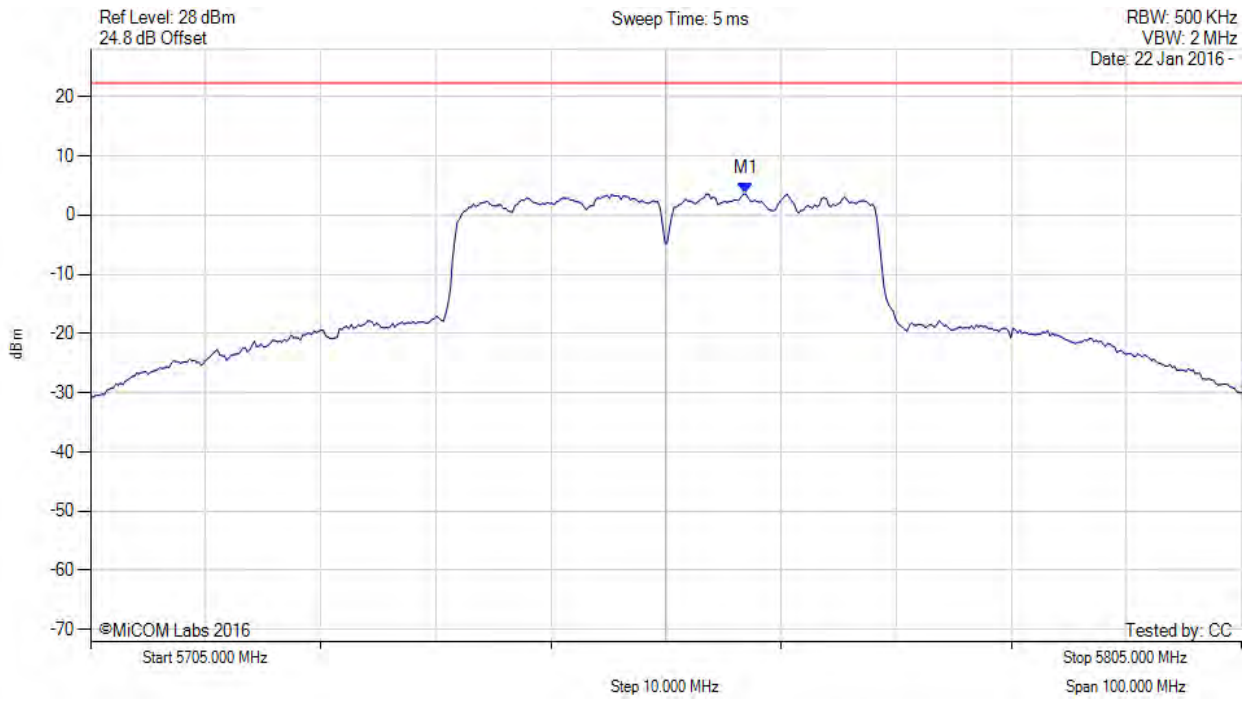
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5761.914 MHz : 3.583 dBm	Limit: ≤ 22.280 dBm

back to matrix

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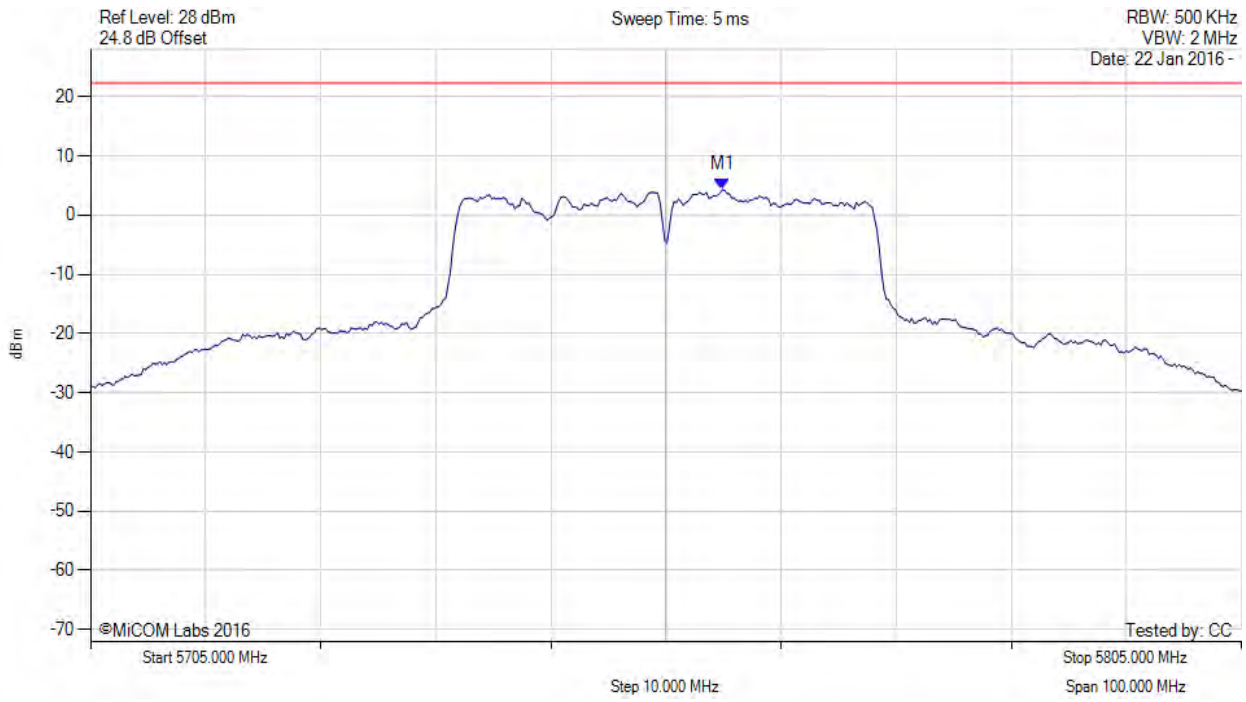
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5759.910 MHz : 4.311 dBm	Limit: ≤ 22.280 dBm

back to matrix

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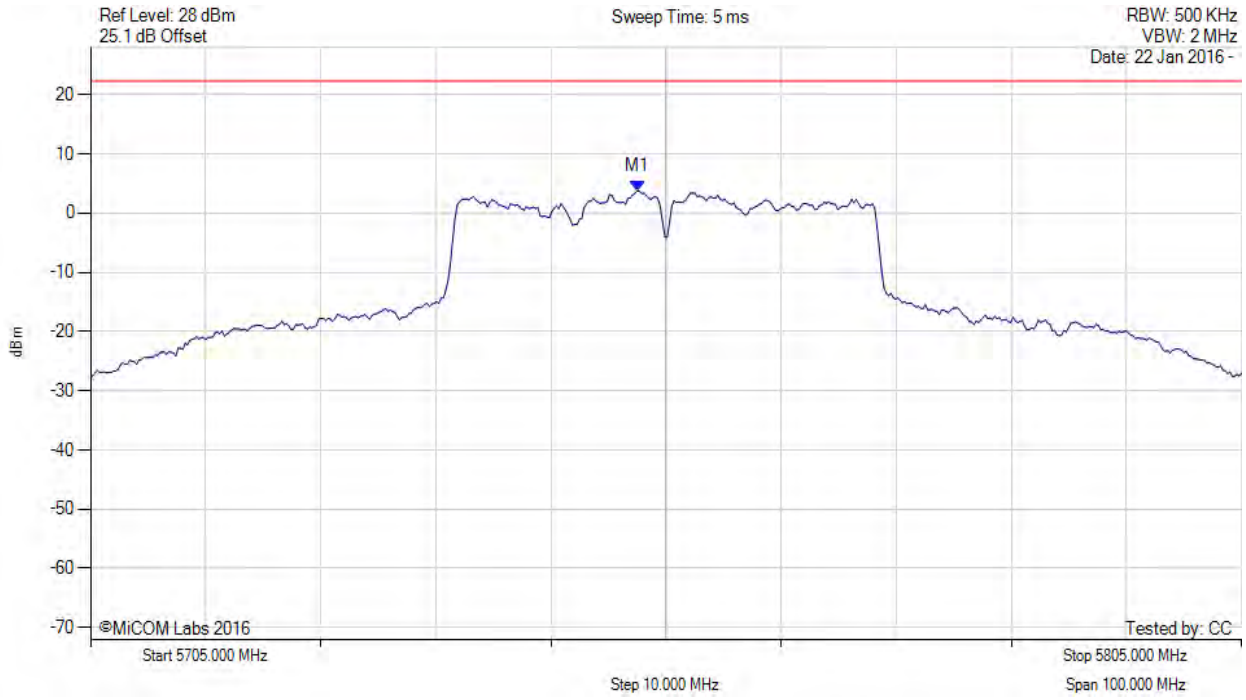
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5752.495 MHz : 3.725 dBm	Limit: ≤ 22.280 dBm

back to matrix

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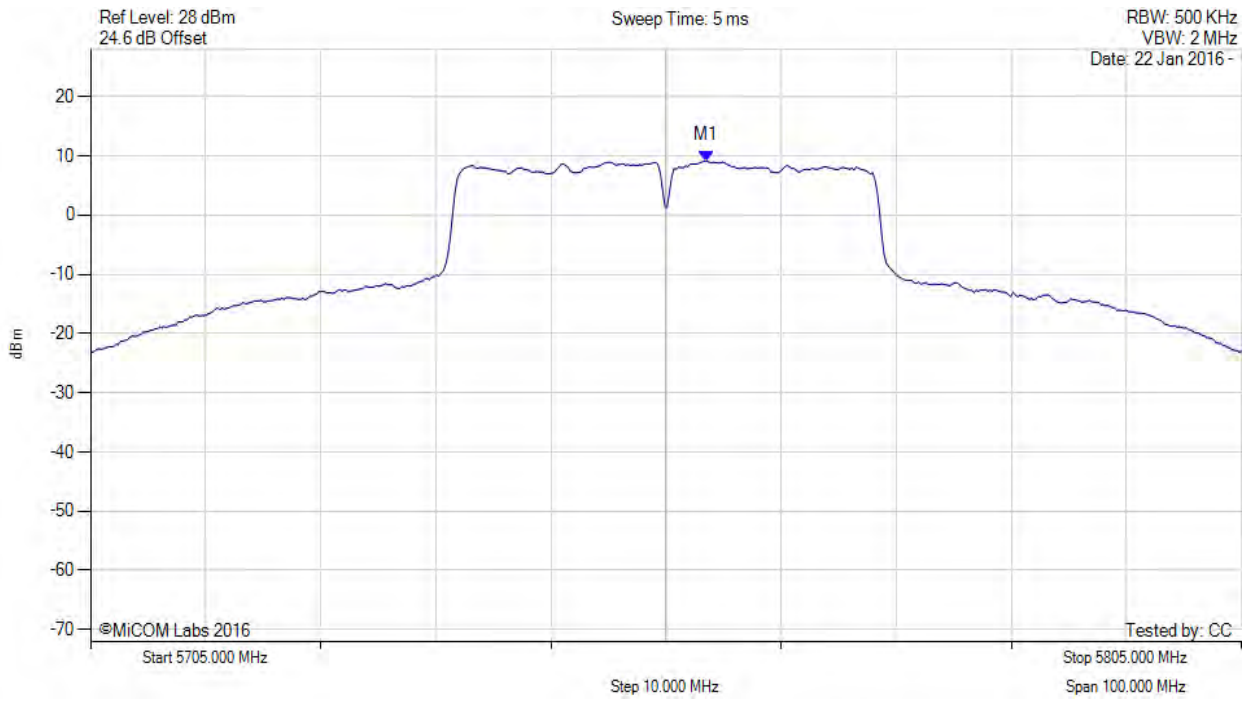
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5758.500 MHz : 9.165 dBm M1 + DCCF : 5758.500 MHz : 9.388 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 28.3 dBm Margin: -18.9 dB

back to matrix

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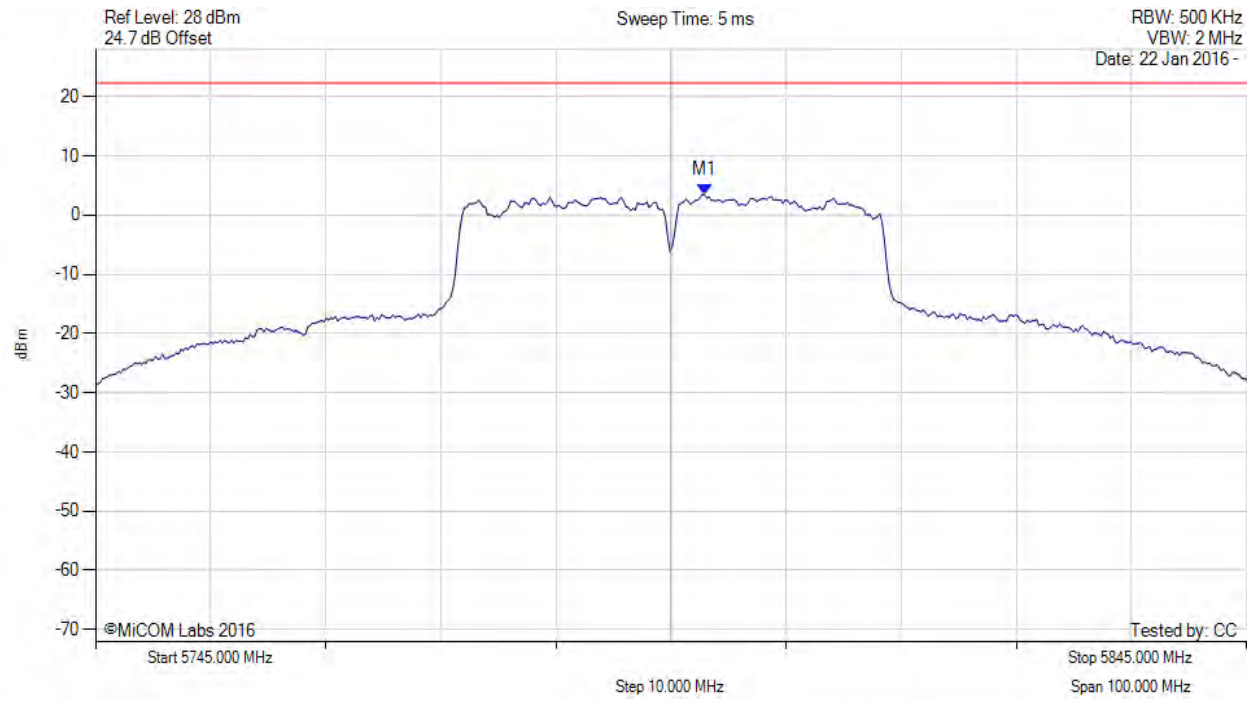
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.906 MHz : 3.471 dBm	Limit: ≤ 22.280 dBm

back to matrix

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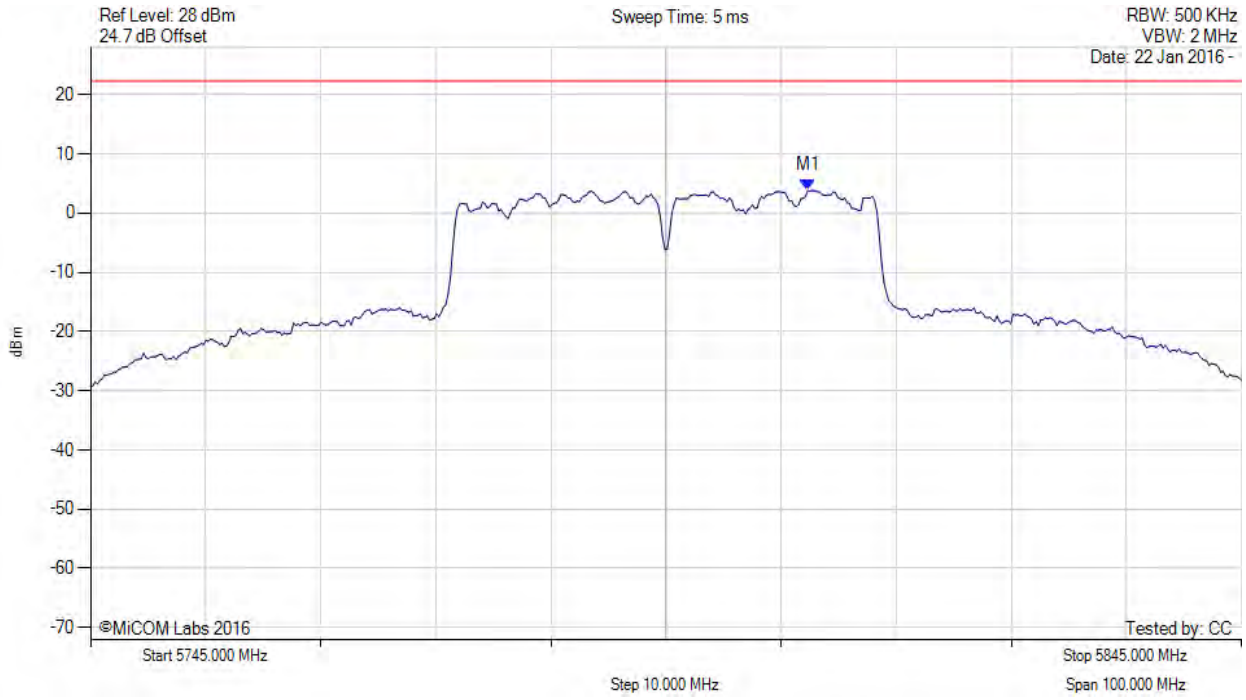
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5807.325 MHz : 3.866 dBm	Limit: ≤ 22.280 dBm

back to matrix

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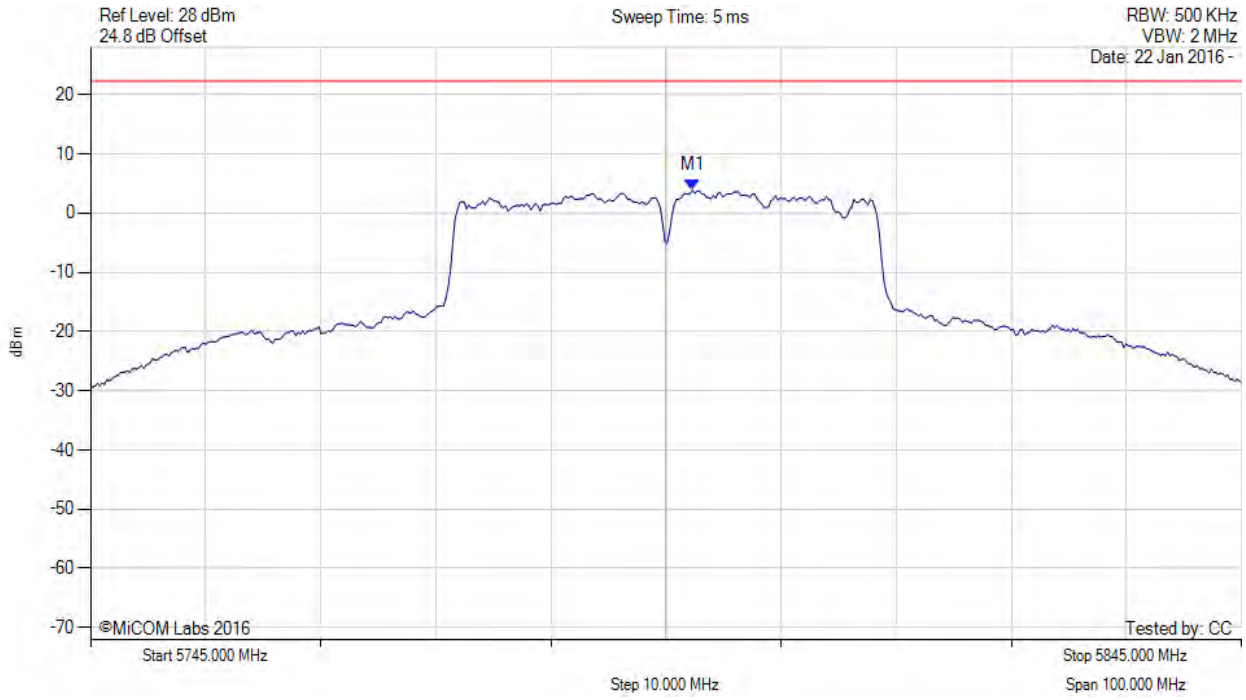
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.305 MHz : 3.872 dBm	Limit: ≤ 22.280 dBm

back to matrix

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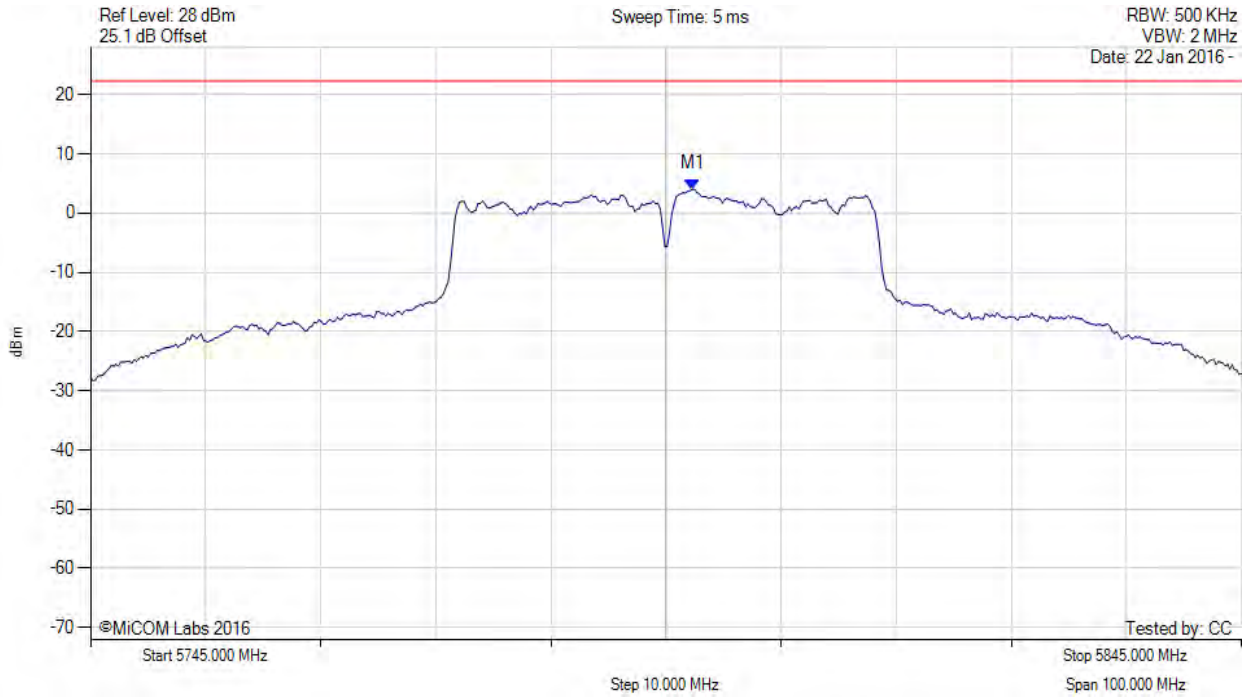
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.305 MHz : 4.012 dBm	Limit: ≤ 22.280 dBm

back to matrix

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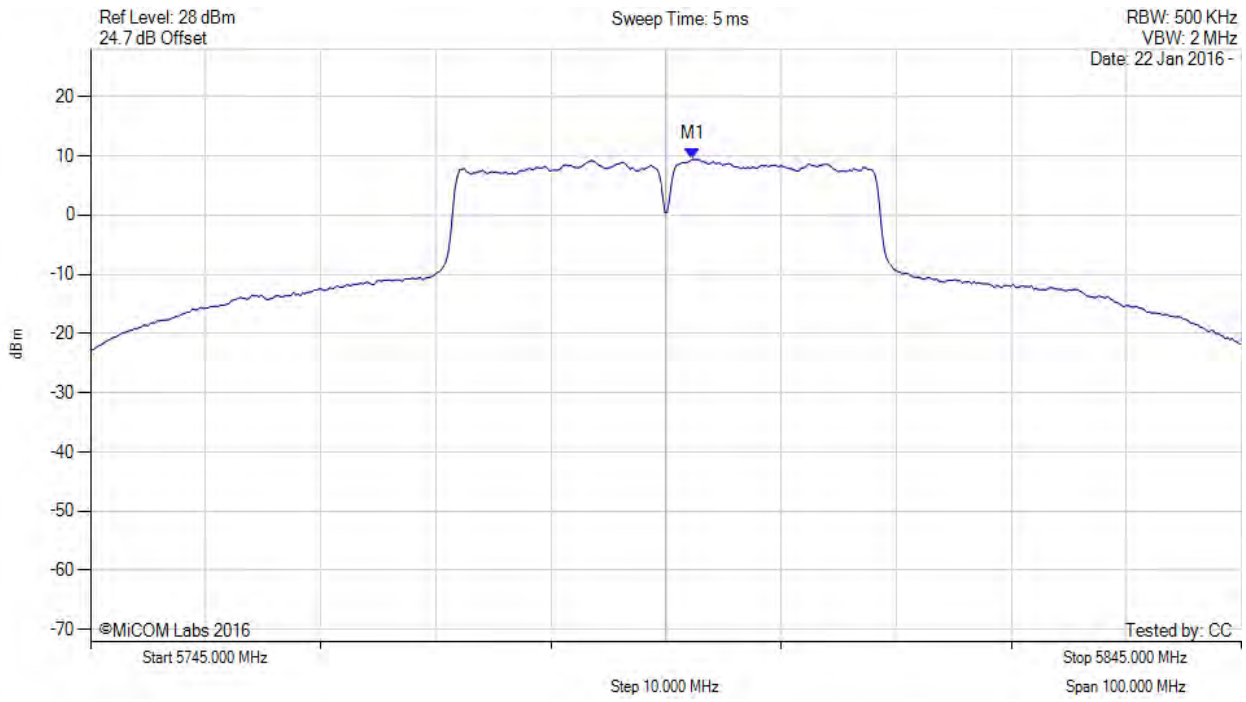
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, SUM, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5797.300 MHz : 9.434 dBm M1 + DCCF : 5797.300 MHz : 9.657 dBm Duty Cycle Correction Factor : +0.22 dB	Limit: ≤ 28.3 dBm Margin: -18.7 dB

back to matrix

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