TEST REPORT ADDENDUM – CONDUCTED

FROM

Test of: Aruba Networks APIN0314, APIN0315

to

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

Test Report Serial No.: ARUB204-U10_Conducted Rev A

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Master Document Number	Addendum Reports
ARUB204-U10_Master	ARUB204-U10_Conducted
	ARUB204-U10_Radiated
	ARUB204-U10_DFS
	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 20
3.3. Power Spectral Density 34
A. APPENDIX - GRAPHICAL IMAGES 48
A.1. 26 dB & 99% Bandwidth 49
A.2. Power Spectral Density 187

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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

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802.11ac-160

Equipment Configuration for Peak Transmit Power

Variant:	802.11ac-160	**Duty Cycle (%):**	95.0
Data Rate:	58.5 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 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	
5250.0	5210.0	21.21	--	21.88	--	24.57	--	28.30	-3.73	18.00
5250.0	5290.0	--	18.48	--	18.98	21.75	214.910	22.30	-0.55	18.00

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB18

DCCF - Duty Cycle Correction Factor

* APIN0314 operational mode ac-160 transmits different channels on two different antenna ports, for example antenna Port ‘c’ is set to operate with frequency 5210.0MHz and antenna Port ‘a’ on frequency 5290.0MHz.

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Equipment Configuration for Peak Transmit Power			
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 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	
5260.0	16.41	16.92	16.56	15.75	22.45	19.539	23.91	-1.46	16.00
5300.0	16.55	16.84	16.86	15.74	22.54	19.439	23.89	-1.35	16.00
5320.0	16.28	16.99	16.56	15.74	22.43	19.138	23.82	-1.39	16.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power

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 Conducted Output Power + DCCF (+0.41 dB) (dBm)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5290.0	15.61	16.05	15.74	14.81	21.60	80.160	22.30	-0.70	15.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power

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 5290 + 5690 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	
5290.0	17.96	--	18.43	--	21.75	214.910	22.30	-	18.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
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 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	
5260.0	14.19	14.62	14.25	13.54	20.19	20.341	22.30	-2.11	14.00
5300.0	14.18	14.91	14.55	13.55	20.34	20.140	22.30	-1.96	14.00
5320.0	13.92	14.35	14.42	13.61	20.11	20.140	22.30	-2.19	14.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
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 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	
5270.0	15.43	15.86	15.57	14.71	21.44	39.479	22.30	-0.86	15.00
5310.0	15.30	15.90	15.59	14.58	21.39	39.479	22.30	-0.91	15.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power

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 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	
5500.0	16.11	16.99	16.64	16.16	22.51	19.038	23.80	-1.29	16.00
5580.0	16.06	16.77	16.24	15.95	22.28	19.038	23.80	-1.51	15.00
5720.0	16.08	16.66	16.78	16.10	22.43	18.938	23.77	-1.34	15.50

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
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 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	
5530.0	15.66	16.15	16.04	15.83	21.94	80.561	22.30	-0.36	15.00
5610.0	15.15	15.87	15.71	15.60	21.61	80.561	22.30	-0.69	14.00
5690.0	15.80	16.25	16.63	16.13	22.23	80.160	22.30	-0.07	15.00

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

DCCF - Duty Cycle Correction Factor

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Transmission of 80 + 80 MHz within the same frequency band – output power aggregated over all ports

802.11ac-80 (80+80) 5530.00+5690.00 MHz

Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-160	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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								
Measured Conducted Output Power + DCCF (+0.41 dB) (dBm)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
Test Frequency (MHz)								
5530		5690						
Port(s)								
a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
15.89	16.05	16.22	16.11	22.09	204.81	22.30	-0.21	15.00

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

DCCF - Duty Cycle Correction Factor

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Transmission of 80 + 80 MHz within the same frequency band – output power aggregated over all ports

802.11ac-80 (80+80) 5610.00+5690.00 MHz

Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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								
Measured Conducted Output Power + DCCF (+0.41 dB) (dBm)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
Test Frequency (MHz)								
5610.0		5690.0						
Port(s)								
a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
15.41	15.65	15.23	15.24	21.41	204.81	22.30	--	14.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-160	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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

Measured Conducted Output Power + DCCF (+0.41 dB) (dBm)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
Test Frequency (MHz)								
5570.0								
5530.0	5530	5610	5610					
Port(s)								
a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
15.89	16.05	16.70	16.26	22.26	204.81	22.3	--	15.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
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 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	
5500.0	14.08	14.43	14.42	14.14	20.29	19.940	22.30	-2.01	14.00
5580.0	13.99	14.23	13.95	13.93	20.05	20.040	22.30	-2.25	13.00
5720.0	13.60	13.81	14.05	13.37	19.73	19.739	22.30	-2.57	13.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
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 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	
5510.0	15.34	15.51	15.56	15.42	21.48	39.679	22.30	-0.82	15.00
5550.0	15.84	16.10	15.94	15.83	21.95	39.880	22.30	-0.35	15.00
5710.0	15.45	16.12	16.27	15.82	21.95	39.880	22.30	-0.35	15.00

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 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-160	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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**		
5250.0	194.309	194.309	194.309	194.309		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)		99% Bandwidth (MHz)			
MHz	**a + b**	**c + d**	**Highest**	**Lowest**		
5250.0	155.190	155.190	155.190	155.190		

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).

* APIN0314 operational mode ac-160 transmits different channels on two different antenna ports, for example antenna Port ‘c’ is set to operate with frequency 5210.0MHz and antenna Port ‘a’ on frequency 5290.0MHz.

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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):**	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**		
5260.0	20.140	19.539	19.539	19.639	20.140	19.539		
5300.0	19.739	19.439	19.840	19.940	19.940	19.439		
5320.0	19.940	19.138	19.940	19.840	19.940	19.138		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5260.0	16.433	16.433	16.433	16.633	16.633	16.433		
5300.0	16.433	16.433	16.533	16.533	16.533	16.433		
5320.0	16.433	16.433	16.533	16.533	16.533	16.433		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	
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**		
5290.0	80.962	80.561	80.160	80.160	80.962	80.160		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5290.0	75.752	76.152	75.752	75.351	76.152	75.351		

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**		
5290.0	215.471	--	214.910	--	215.471	214.910		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5290.0	143.647	--	151.503	--	151.503	143.647		

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**		
5260.0	20.441	20.341	20.641	20.541	20.641	20.341		
5300.0	20.441	20.140	20.641	20.541	20.641	20.140		
5320.0	20.341	20.140	20.541	20.441	20.541	20.140		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5260.0	17.635	17.635	17.635	17.735	17.735	17.635		
5300.0	17.735	17.535	17.735	17.735	17.735	17.535		
5320.0	17.735	17.535	17.735	17.735	17.735	17.535		

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**		
5270.0	40.281	40.281	40.080	39.479	40.281	39.479		
5310.0	40.281	40.481	39.880	39.479	40.481	39.479		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5270.0	36.273	36.273	36.273	36.072	36.273	36.072		
5310.0	36.273	36.273	36.072	35.872	36.273	35.872		

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):**	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**		
5500.0	20.040	19.739	20.040	19.038	20.040	19.038		
5580.0	19.940	19.339	19.439	19.038	19.940	19.038		
5720.0	19.739	19.639	19.238	18.938	19.739	18.938		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5500.0	16.433	16.433	16.533	16.533	16.533	16.433		
5580.0	16.433	16.433	16.533	16.433	16.533	16.433		
5720.0	16.433	16.433	16.433	16.333	16.433	16.333		

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**		
5530.0	80.962	80.561	80.561	80.561	80.962	80.561		
5610.0	80.962	80.561	80.561	80.561	80.962	80.561		
5690.0	80.962	80.160	80.561	80.561	80.962	80.160		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5530.0	76.152	75.752	75.752	75.752	76.152	75.752		
5610.0	76.152	76.152	75.752	76.152	76.152	75.752		
5690.0	76.152	75.752	76.152	75.752	76.152	75.752		

Traceability to Industry Recognized Test Methodologies

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11ac-80	**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**		
5530.0	216.593	--	204.810	--	216.593	204.810		
5610.0	227.255	--	213.226	--	227.255	213.226		
5690.0	204.248	--	206.493	--	206.493	204.248		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5530.0	144.208	--	125.691	--	144.208	125.691		
5610.0	156.553	--	139.158	--	156.553	139.158		
5690.0	125.691	--	125.691	--	125.691	125.691		

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-160	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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**		
5570.0	162.325	162.325	194.309	194.309		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)		99% Bandwidth (MHz)			
MHz	**a + b**	**c + d**	**Highest**	**Lowest**		
5570.0	155.190	155.190	155.190	155.190		

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-160	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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**		
5650.0	161.202	161.202	194.309	194.309		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)		99% Bandwidth (MHz)			
MHz	**a + b**	**c + d**	**Highest**	**Lowest**		
5650.0	155.190	155.190	155.190	155.190		

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**		
5500.0	20.341	20.341	20.541	19.940	20.541	19.940		
5580.0	20.641	20.240	20.441	20.040	20.641	20.040		
5720.0	20.741	20.441	20.140	19.739	20.741	19.739		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5500.0	17.735	17.635	17.735	17.735	17.735	17.635		
5580.0	17.635	17.635	17.735	17.635	17.735	17.635		
5720.0	17.635	17.635	17.635	17.535	17.635	17.535		

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**		
5510.0	40.281	40.281	40.281	39.679	40.281	39.679		
5550.0	40.681	40.281	40.080	39.880	40.681	39.880		
5710.0	40.080	40.281	40.281	39.880	40.281	39.880		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5510.0	36.273	36.273	36.273	36.273	36.273	36.273		
5550.0	36.273	36.273	36.273	36.273	36.273	36.273		
5710.0	36.273	36.273	36.273	36.473	36.473	36.273		

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

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

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3.3. Power Spectral Density

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

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

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

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

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

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

Limits Power Spectral Density

Operating Frequency Band 5150-5250 MHz

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

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

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

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

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

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

Operating Frequency Band 5725 – 5850 MHz

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

Power Spectral Density - Amplitude Summation

The following Power Spectral Density measurement data consists of measuring data from each antenna port. The data is then linearly summed pixel by pixel for each of the spectrum data i.e Port a, Pixel 1+ Port b, Pixel 1 + Port c, Pixel 1+ Port d, Pixel 1 = Pixel 1 SUMMATION. This process is repeated for all pixels and the summation is compared to the limit. Its 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:	802.11ac-160	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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 5210 + 5250 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
5250.0	5210.0	2.728	--	3.371	--	6.229	15.3	-9.1
5250.0	5290.0	--	-0.251	--	0.977	3.632	9.3	-5.7

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).

* APIN0314 operational mode ac-160 transmits different channels on two different antenna ports, for example antenna Port ‘c’ is set to operate with frequency 5210.0MHz and antenna Port ‘a’ on frequency 5290.0MHz.

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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
5260.0	4.714	5.745	4.822	4.169	10.223	11.0	-0.8
5300.0	4.914	5.661	5.597	4.736	10.700	11.0	-0.3
5320.0	4.571	5.684	4.964	4.765	10.528	11.0	-0.5

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	**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**
5290.0	-3.195	-2.101	-2.670	-2.737	2.714	9.3	-6.6

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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802.11ac-80 (80+80)

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
5290.0	-0.251	--	0.977	--	3.632	9.3	-5.7

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n 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
5260.0	2.490	3.091	2.672	2.385	8.244	9.3	-1.1
5300.0	2.547	3.755	3.394	2.808	8.536	9.3	-0.8
5320.0	2.276	3.360	3.358	2.795	8.520	9.3	-0.8

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n 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
5270.0	1.563	2.253	2.141	1.797	7.271	9.3	-2.0
5310.0	0.423	1.348	1.278	0.746	6.602	9.3	-2.7

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	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
5500.0	4.245	5.387	4.950	5.624	10.390	11.0	-0.6
5580.0	4.690	5.682	5.434	5.513	10.756	11.0	-0.3
5720.0	4.680	5.485	6.067	5.381	10.706	11.0	-0.3

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	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
5530.0	-3.155	-2.104	-2.177	-1.732	3.529	9.3	-5.8
5610.0	-2.798	-2.377	-2.082	-2.402	3.333	9.3	-6.0
5690.0	-2.521	-1.809	-1.276	-1.806	3.680	9.3	-5.6

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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802.11ac-80 (80+80)

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
5530.0	0.493	--	1.567	--	4.200	9.3	-5.1
5610.0	1.249	--	2.266	--	4.850	9.3	-4.5
5690.0	0.741	--	1.970	--	4.332	9.3	-5.0

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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802.11ac-160

Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-160	**Duty Cycle (%):**	91.0
Data Rate:	58.5 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
5570.0	5530.0	0.493	--	1.567	--	4.200	9.3	-5.1
5570.0	5610.0	--	1.249	--	2.266	4.850	9.3	-4.5

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:	802.11n 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
5500.0	2.295	3.037	3.186	3.686	8.788	9.3	-0.5
5580.0	2.571	3.050	3.258	3.852	8.970	9.3	-0.4
5720.0	2.020	2.541	3.454	2.757	8.202	9.3	-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
5510.0	0.465	0.765	1.416	1.958	6.823	9.3	-2.5
5550.0	0.943	1.527	1.473	1.933	7.230	9.3	-2.1
5710.0	0.943	1.541	2.314	2.468	7.396	9.3	-1.9

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

DCCF - Duty Cycle Correction Factor

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A. APPENDIX - GRAPHICAL IMAGES

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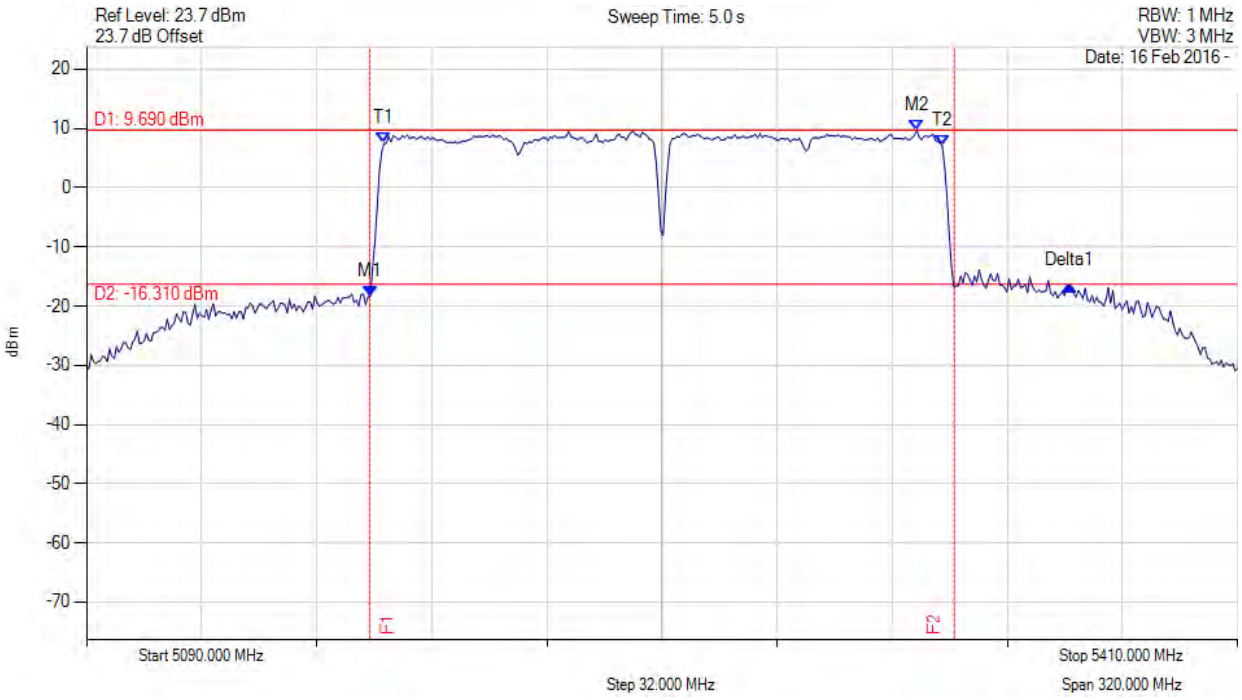
A.1. 26 dB & 99% Bandwidth

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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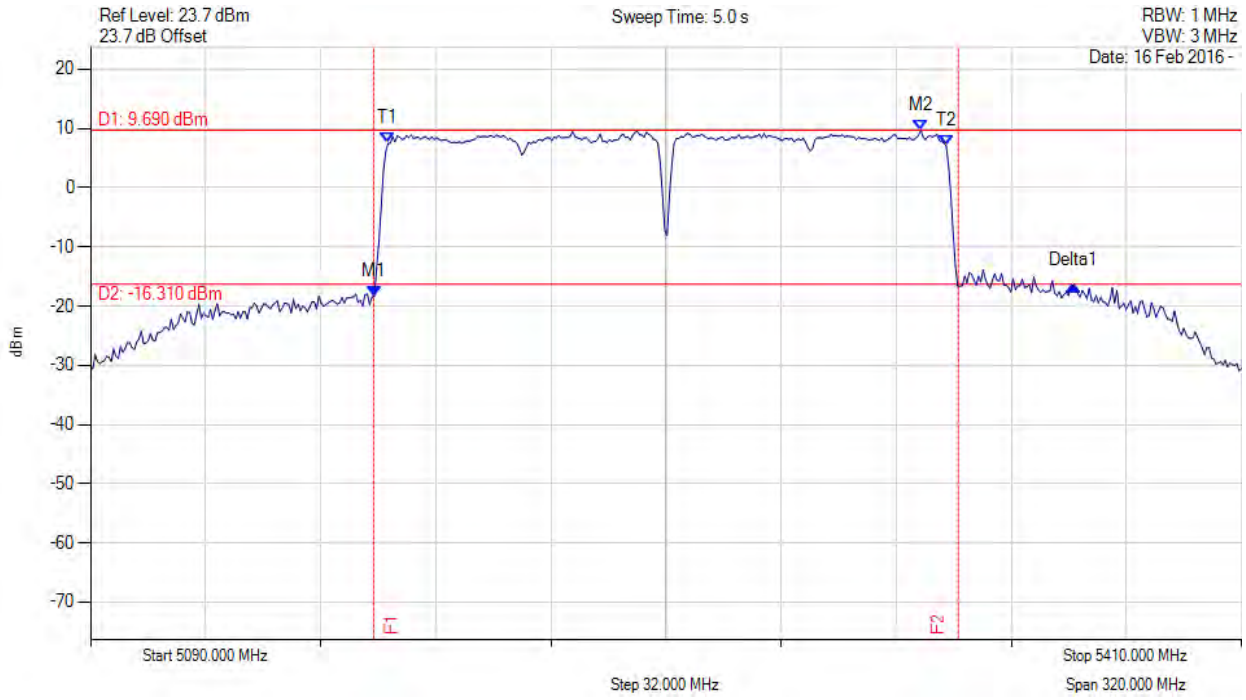
26 dB & 99% BANDWIDTH

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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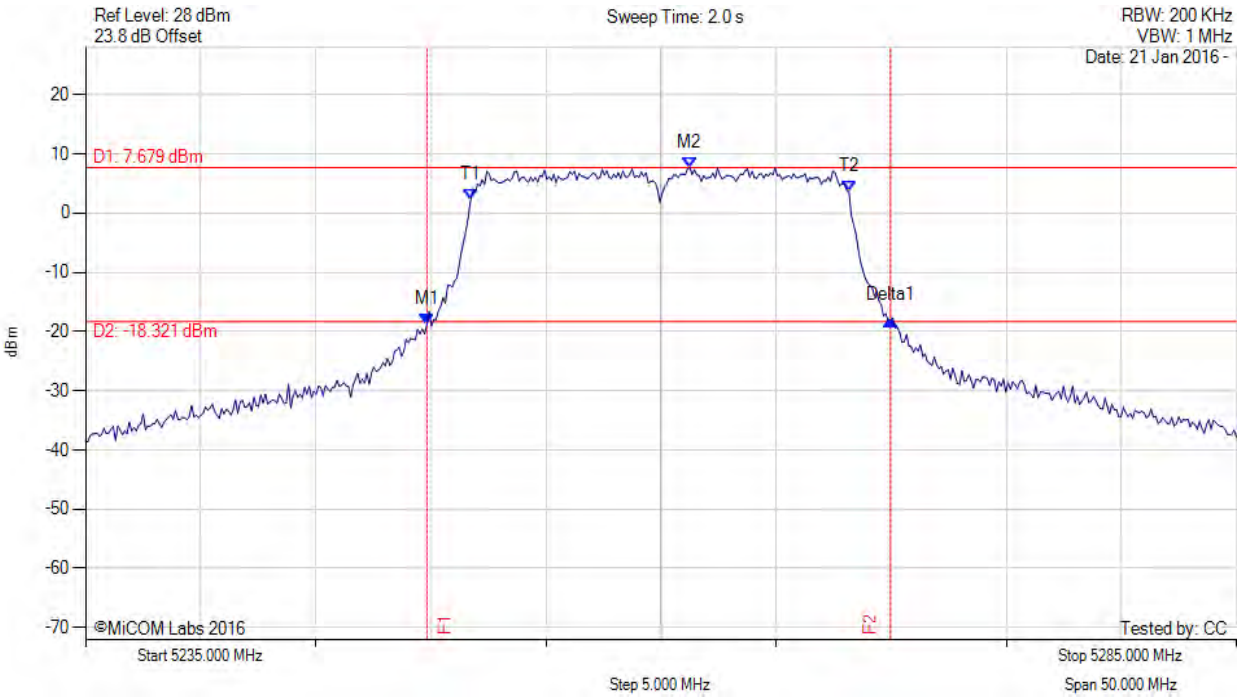
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 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 : 5249.830 MHz : -18.782 dBm M2 : 5261.253 MHz : 7.679 dBm Delta1 : 20.140 MHz : 0.736 dB T1 : 5251.733 MHz : 2.330 dBm T2 : 5268.166 MHz : 3.599 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 20.140 MHz Measured 99% Bandwidth: 16.433 MHz

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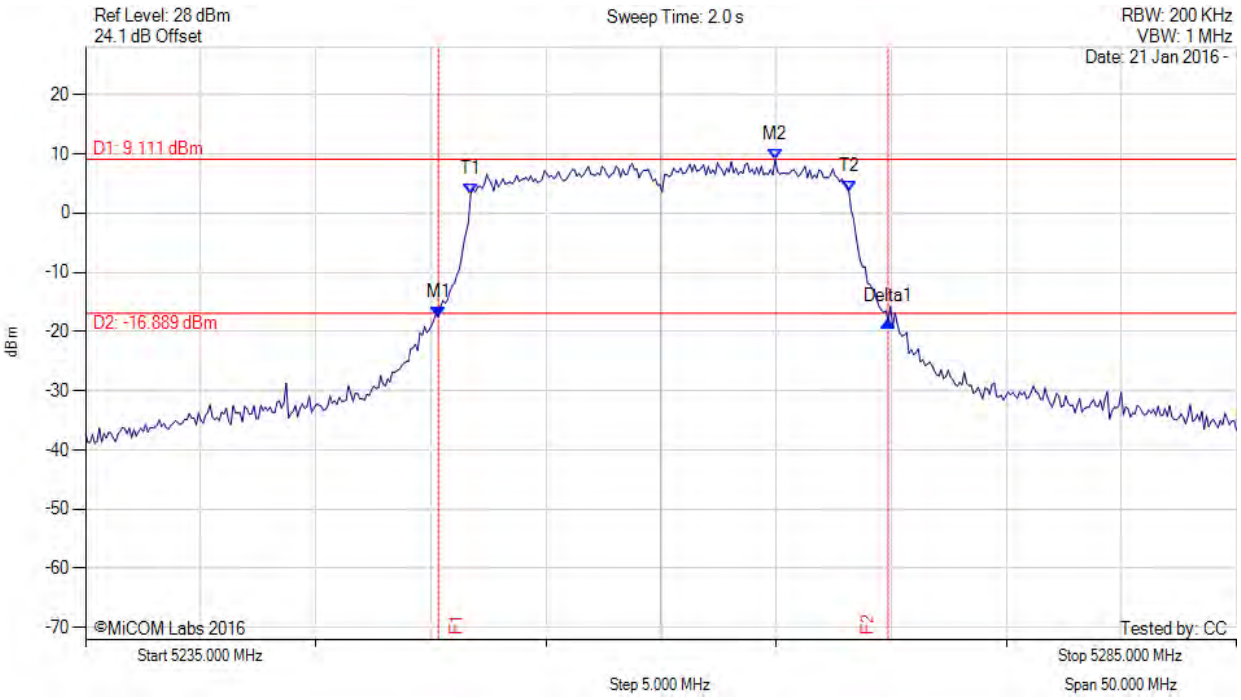
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 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 : 5250.331 MHz : -17.599 dBm M2 : 5264.960 MHz : 9.111 dBm Delta1 : 19.539 MHz : -0.759 dB T1 : 5251.733 MHz : 3.255 dBm T2 : 5268.166 MHz : 3.573 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.539 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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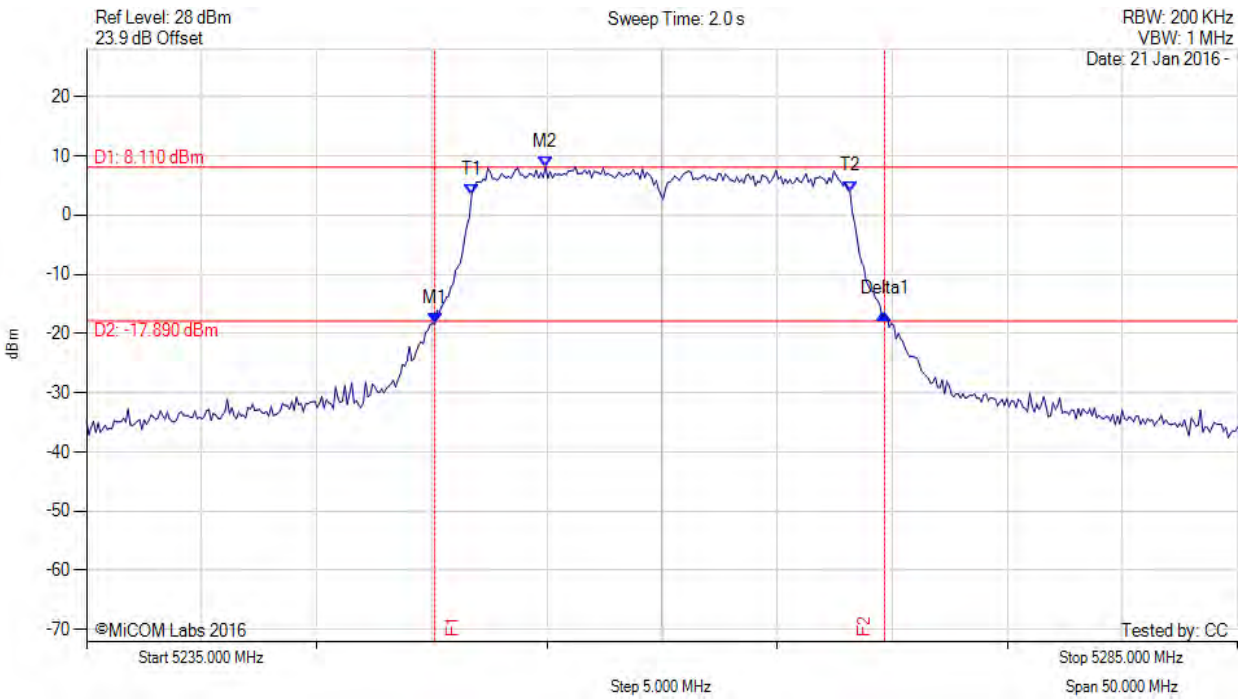
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 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 : 5250.130 MHz : -18.394 dBm M2 : 5254.940 MHz : 8.110 dBm Delta1 : 19.539 MHz : 1.761 dB T1 : 5251.733 MHz : 3.469 dBm T2 : 5268.166 MHz : 4.028 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.539 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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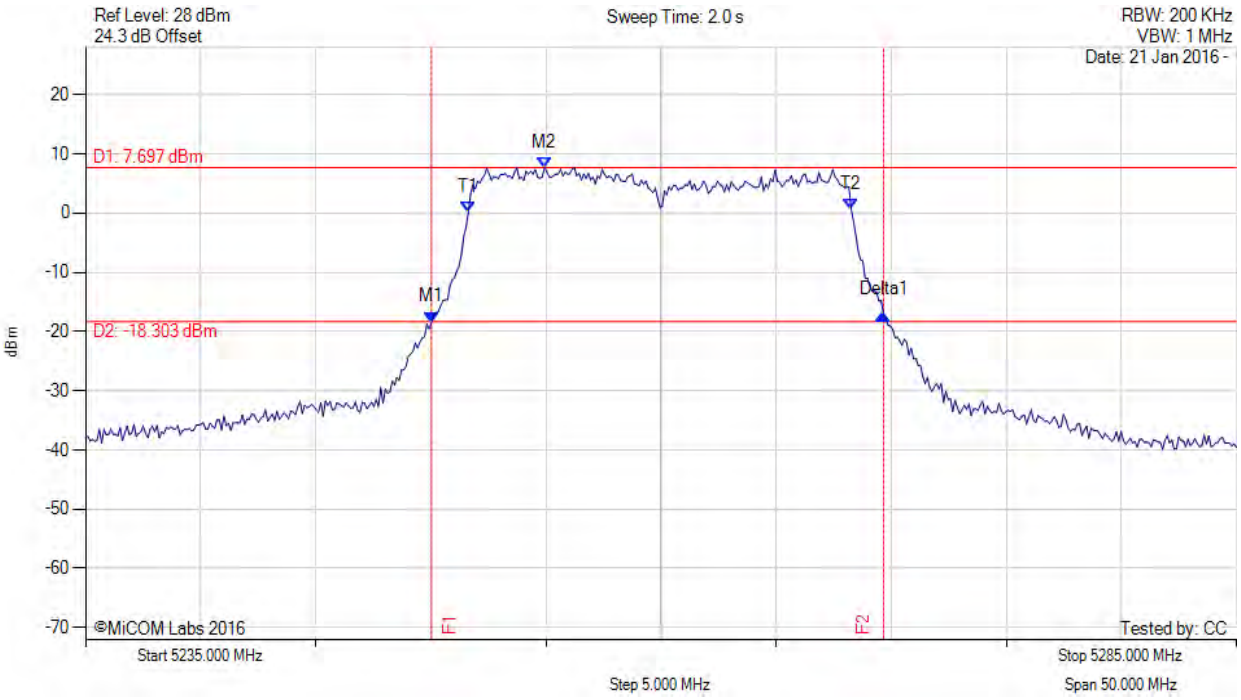
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 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 : 5250.030 MHz : -18.422 dBm M2 : 5254.940 MHz : 7.697 dBm Delta1 : 19.639 MHz : 1.259 dB T1 : 5251.633 MHz : 0.166 dBm T2 : 5268.267 MHz : 0.656 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.639 MHz Measured 99% Bandwidth: 16.633 MHz

back to matrix

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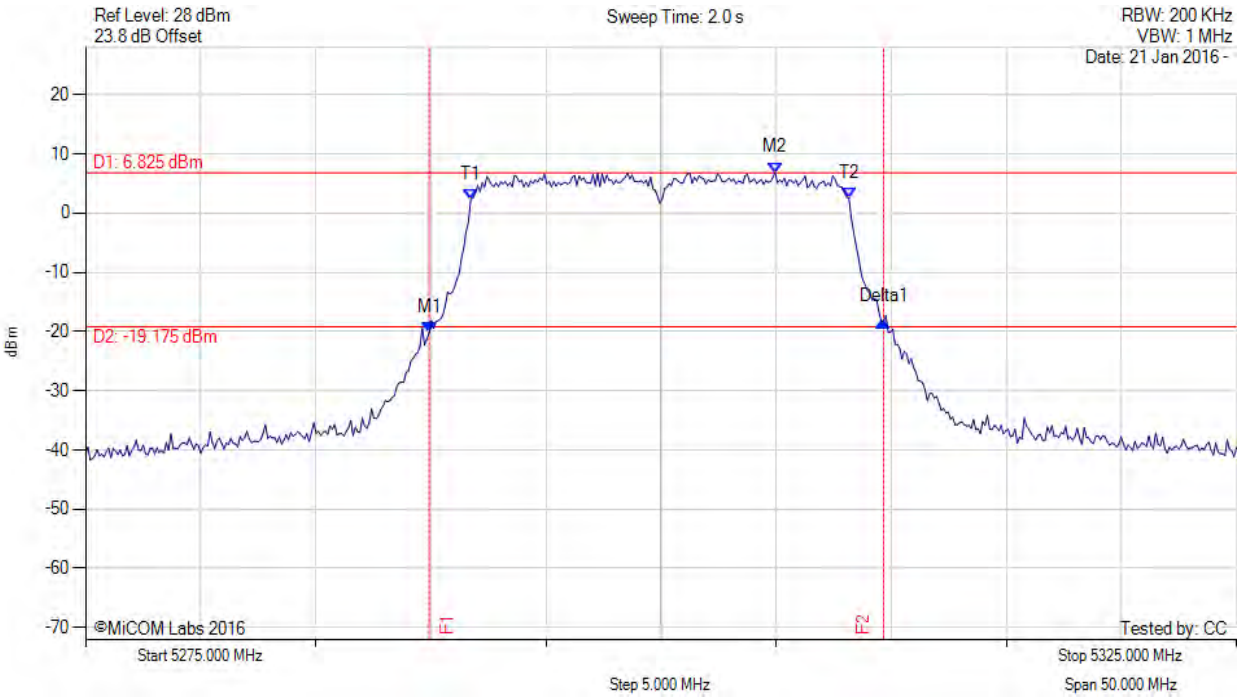
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 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 : 5289.930 MHz : -20.184 dBm M2 : 5304.960 MHz : 6.825 dBm Delta1 : 19.739 MHz : 1.944 dB T1 : 5291.733 MHz : 2.226 dBm T2 : 5308.166 MHz : 2.535 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 16.433 MHz

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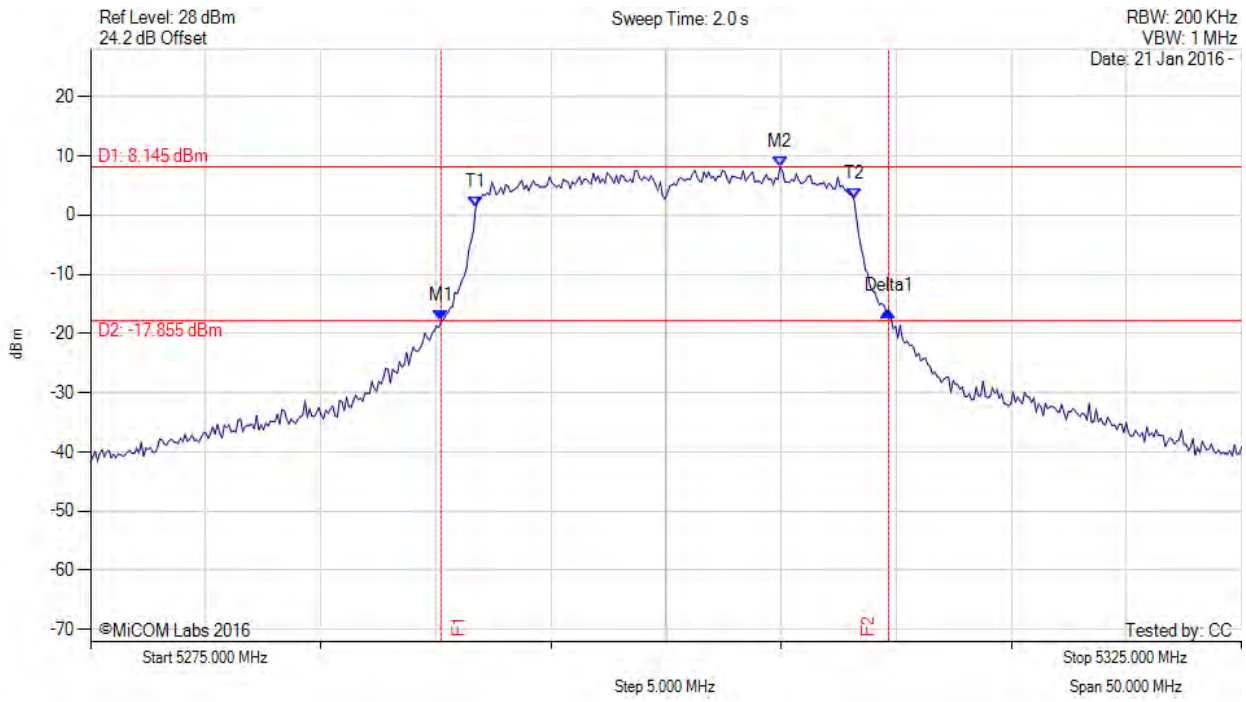
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 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 : 5290.230 MHz : -17.938 dBm M2 : 5304.960 MHz : 8.145 dBm Delta1 : 19.439 MHz : 1.678 dB T1 : 5291.733 MHz : 1.254 dBm T2 : 5308.166 MHz : 2.694 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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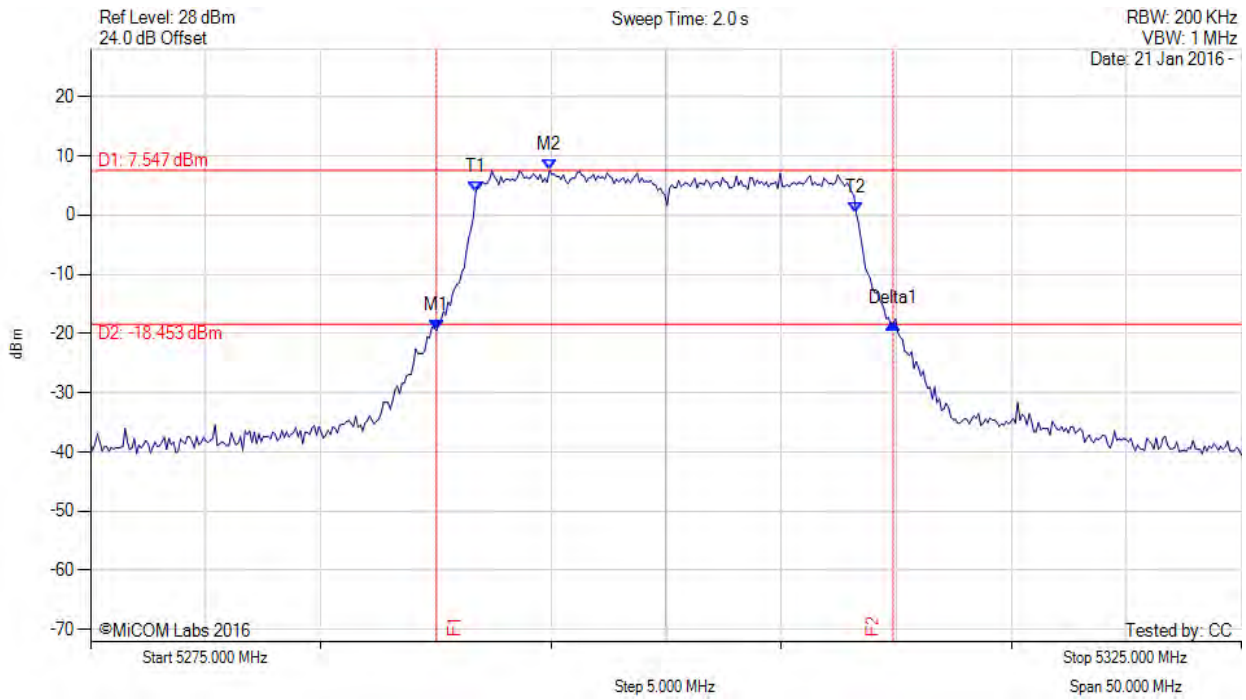
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 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 : 5290.030 MHz : -19.525 dBm M2 : 5294.940 MHz : 7.547 dBm Delta1 : 19.840 MHz : 1.267 dB T1 : 5291.733 MHz : 3.949 dBm T2 : 5308.267 MHz : 0.339 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.533 MHz

back to matrix

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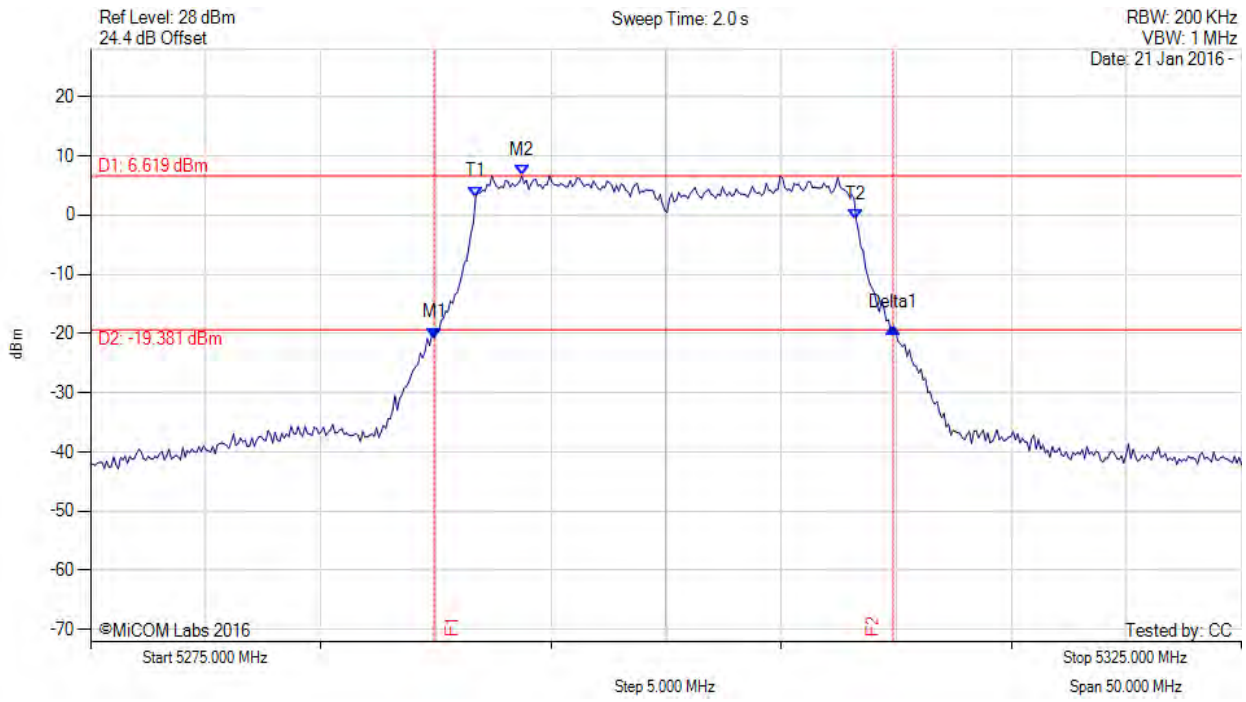
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 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 : 5289.930 MHz : -20.753 dBm M2 : 5293.737 MHz : 6.619 dBm Delta1 : 19.940 MHz : 1.845 dB T1 : 5291.733 MHz : 3.083 dBm T2 : 5308.267 MHz : -0.828 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.533 MHz

back to matrix

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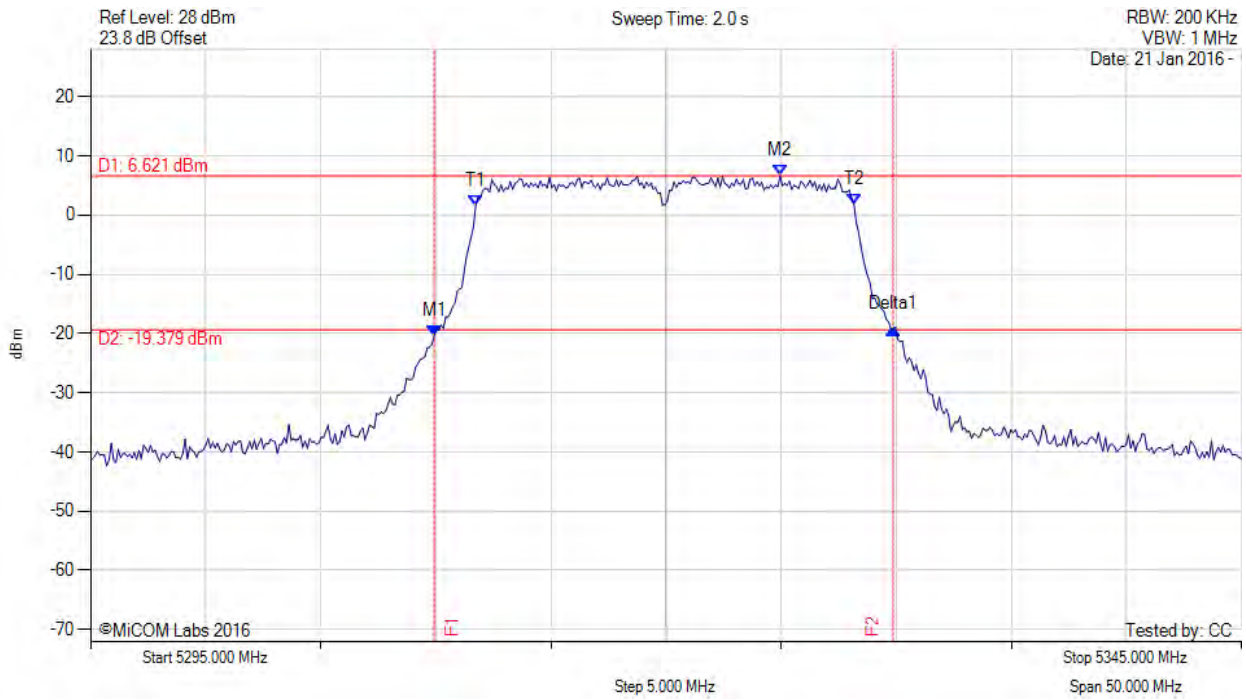
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 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 : 5309.930 MHz : -20.342 dBm M2 : 5324.960 MHz : 6.621 dBm Delta1 : 19.940 MHz : 1.194 dB T1 : 5311.733 MHz : 1.537 dBm T2 : 5328.166 MHz : 1.858 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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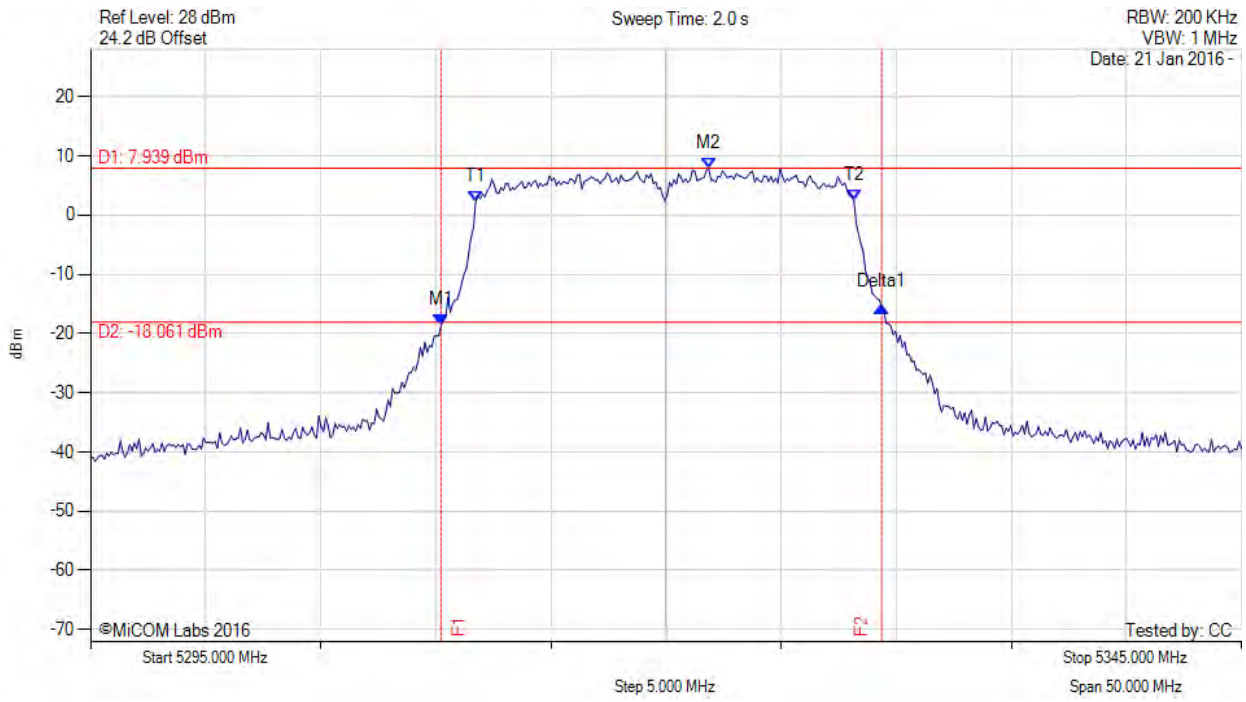
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 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 : 5310.230 MHz : -18.587 dBm M2 : 5321.854 MHz : 7.939 dBm Delta1 : 19.138 MHz : 3.079 dB T1 : 5311.733 MHz : 2.293 dBm T2 : 5328.166 MHz : 2.413 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.138 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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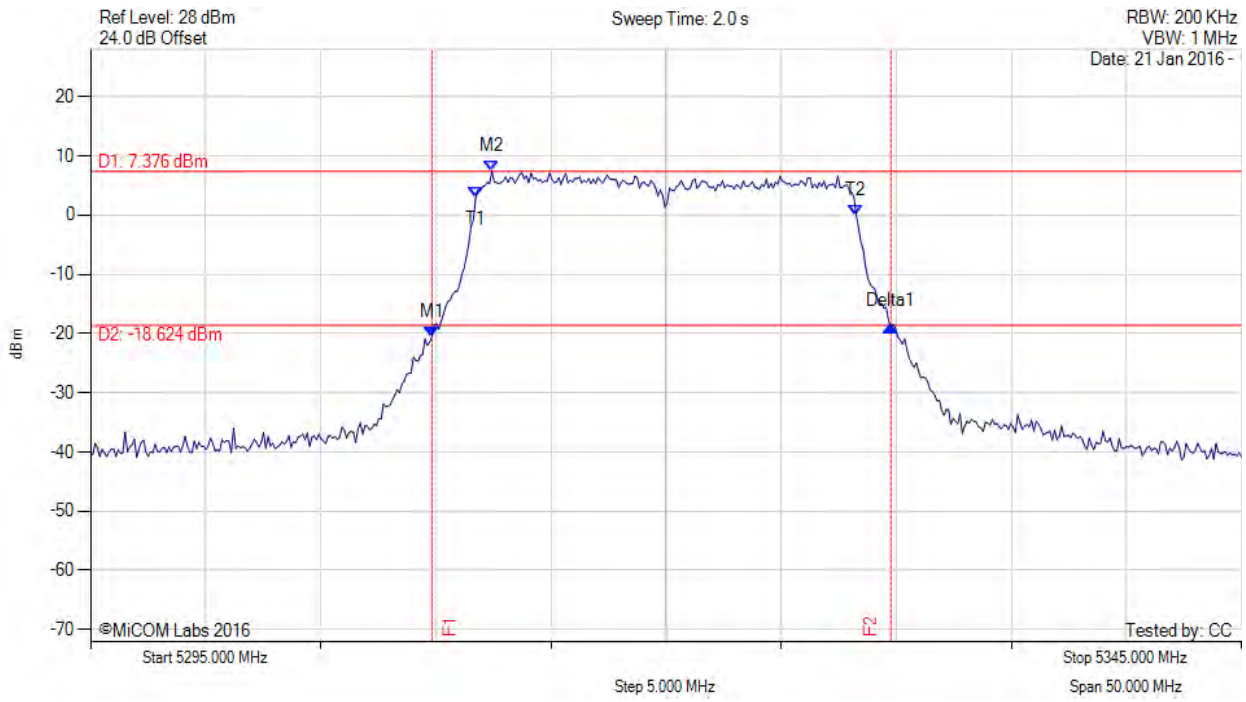
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 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 : 5309.830 MHz : -20.558 dBm M2 : 5312.435 MHz : 7.376 dBm Delta1 : 19.940 MHz : 1.696 dB T1 : 5311.733 MHz : 2.956 dBm T2 : 5328.267 MHz : 0.005 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.533 MHz

back to matrix

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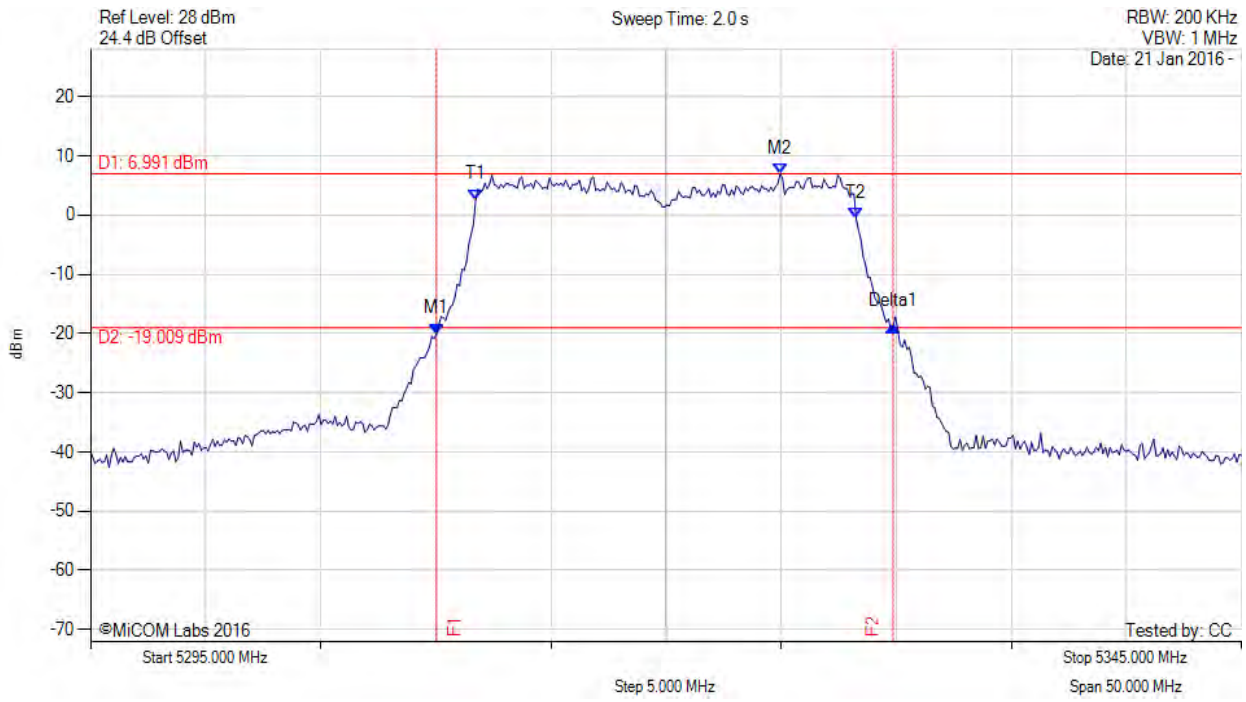
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 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 : 5310.030 MHz : -20.055 dBm M2 : 5324.960 MHz : 6.991 dBm Delta1 : 19.840 MHz : 1.249 dB T1 : 5311.733 MHz : 2.625 dBm T2 : 5328.267 MHz : -0.633 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.533 MHz

back to matrix

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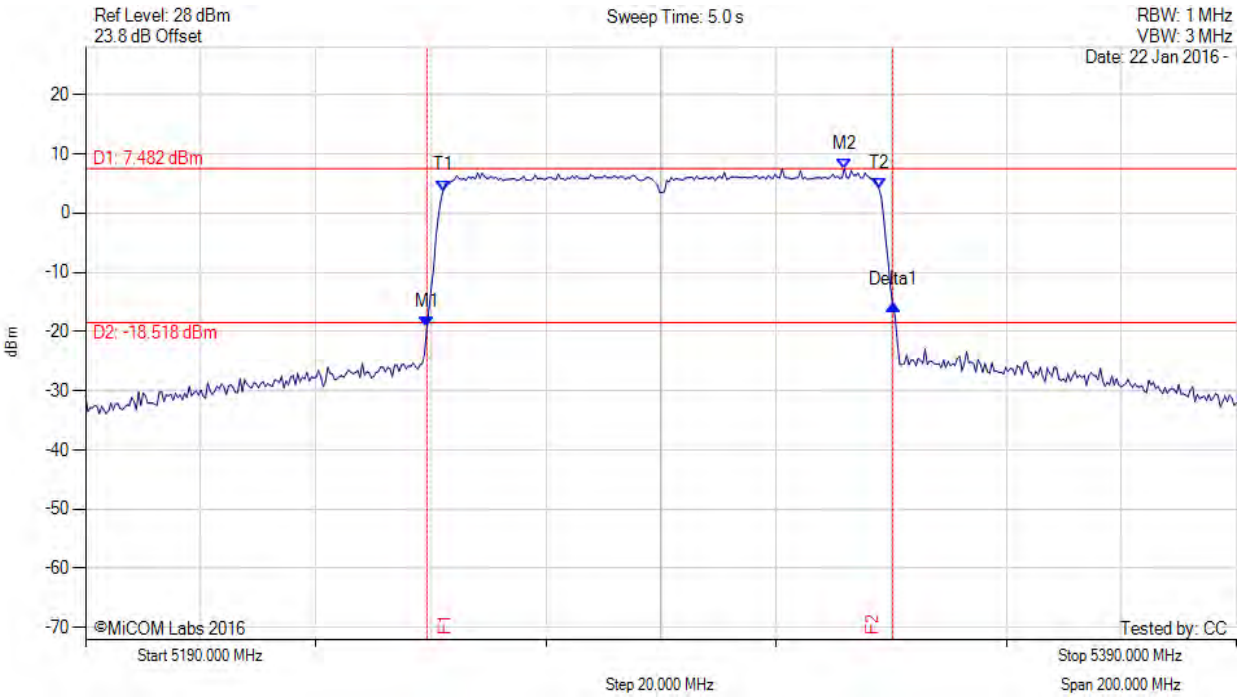
26 dB & 99% BANDWIDTH

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



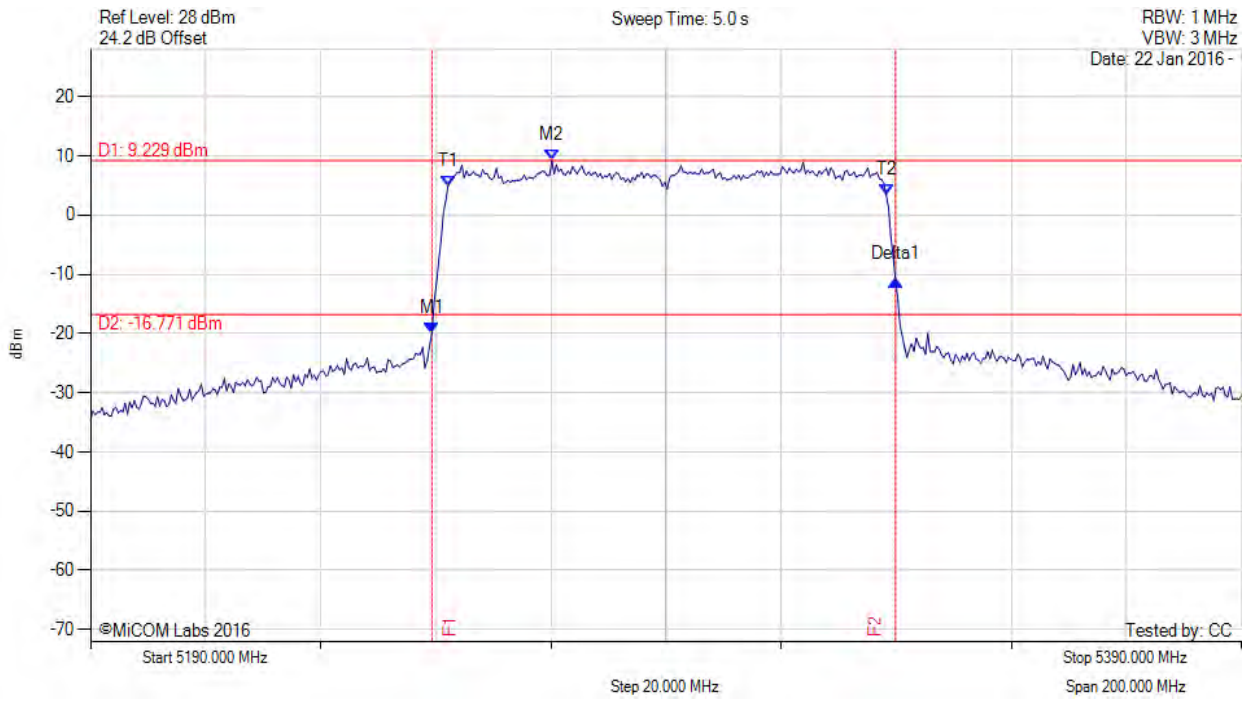
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5249.319 MHz : -19.327 dBm M2 : 5321.864 MHz : 7.482 dBm Delta1 : 80.962 MHz : 3.886 dB T1 : 5252.124 MHz : 3.786 dBm T2 : 5327.876 MHz : 4.118 dBm OBW : 75.752 MHz	Channel Frequency: 5290.00 MHz

back to matrix

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

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 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 : 5249.319 MHz : -19.927 dBm M2 : 5270.160 MHz : 9.229 dBm Delta1 : 80.561 MHz : 8.983 dB T1 : 5252.124 MHz : 4.872 dBm T2 : 5328.277 MHz : 3.461 dBm OBW : 76.152 MHz	Channel Frequency: 5290.00 MHz

back to matrix

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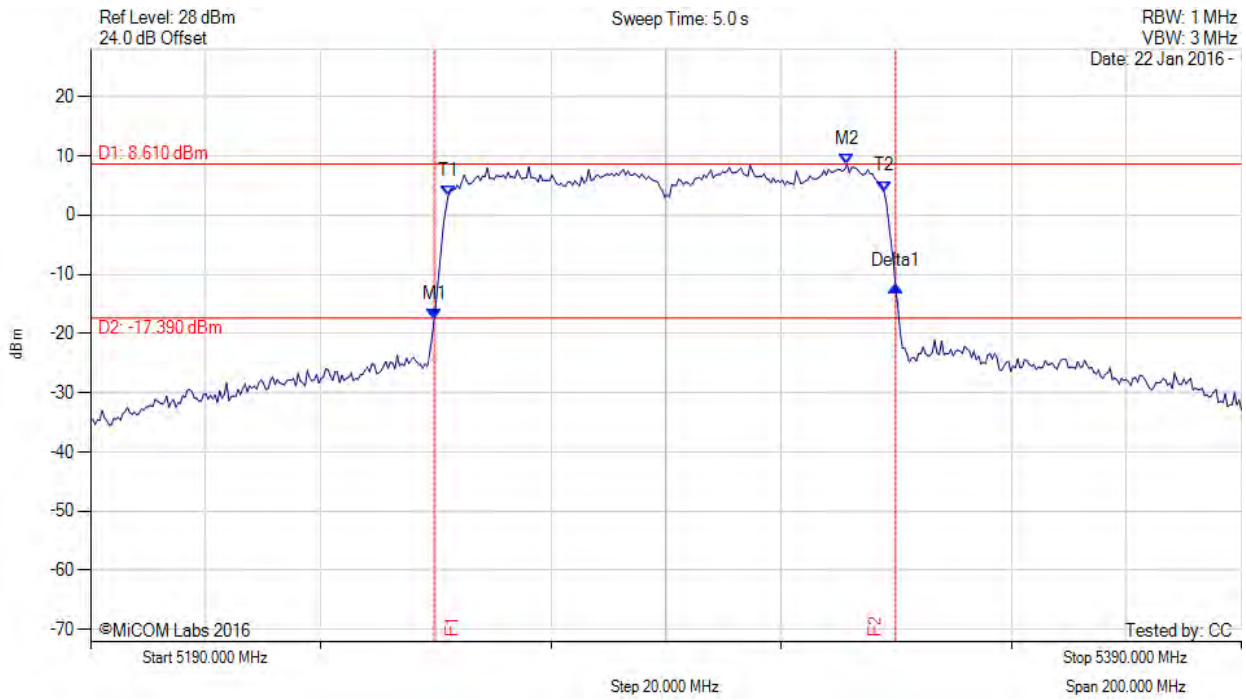
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 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 : 5249.719 MHz : -17.629 dBm M2 : 5321.463 MHz : 8.610 dBm Delta1 : 80.160 MHz : 5.737 dB T1 : 5252.124 MHz : 3.166 dBm T2 : 5327.876 MHz : 4.024 dBm OBW : 75.752 MHz	Channel Frequency: 5290.00 MHz

back to matrix

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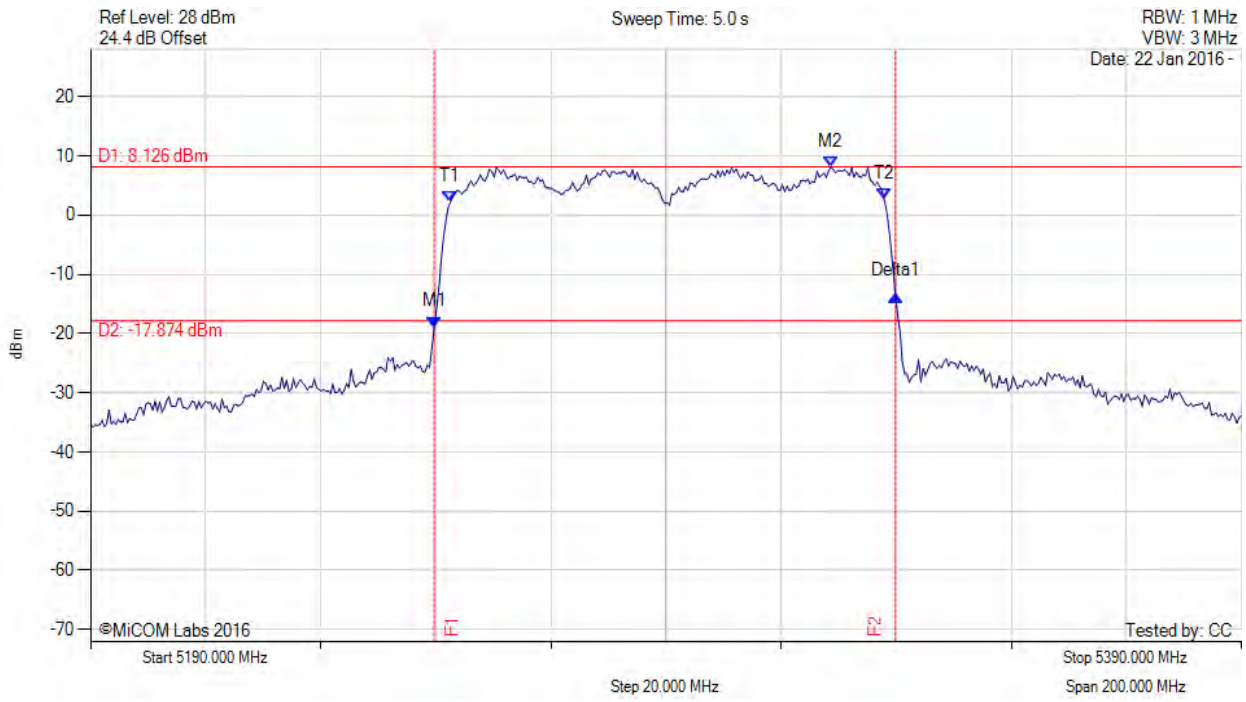
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 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 : 5249.719 MHz : -18.874 dBm M2 : 5318.657 MHz : 8.126 dBm Delta1 : 80.160 MHz : 5.200 dB T1 : 5252.525 MHz : 2.163 dBm T2 : 5327.876 MHz : 2.798 dBm OBW : 75.351 MHz	Channel Frequency: 5290.00 MHz

back to matrix

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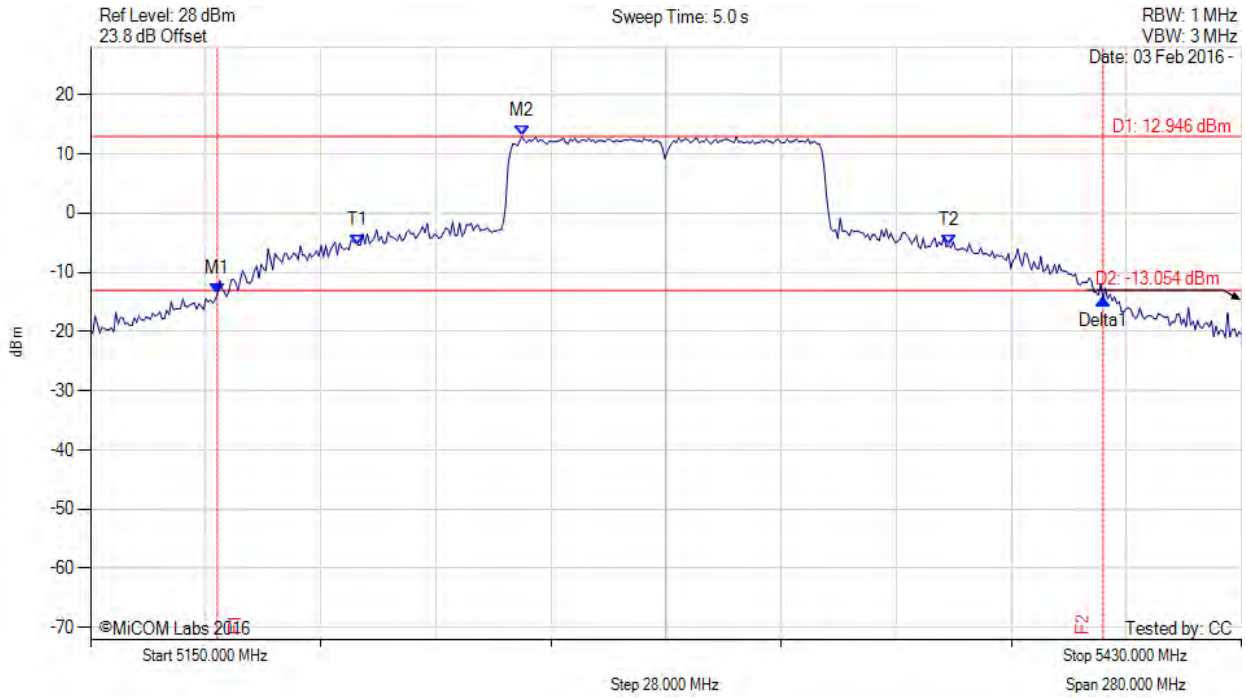
26 dB & 99% BANDWIDTH

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



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5180.862 MHz : -13.728 dBm M2 : 5254.930 MHz : 12.946 dBm Delta1 : 215.471 MHz : -0.836 dB T1 : 5215.090 MHz : -5.364 dBm T2 : 5358.737 MHz : -5.455 dBm OBW : 143.647 MHz	Measured 26 dB Bandwidth: 215.471 MHz Measured 99% Bandwidth: 143.647 MHz

back to matrix

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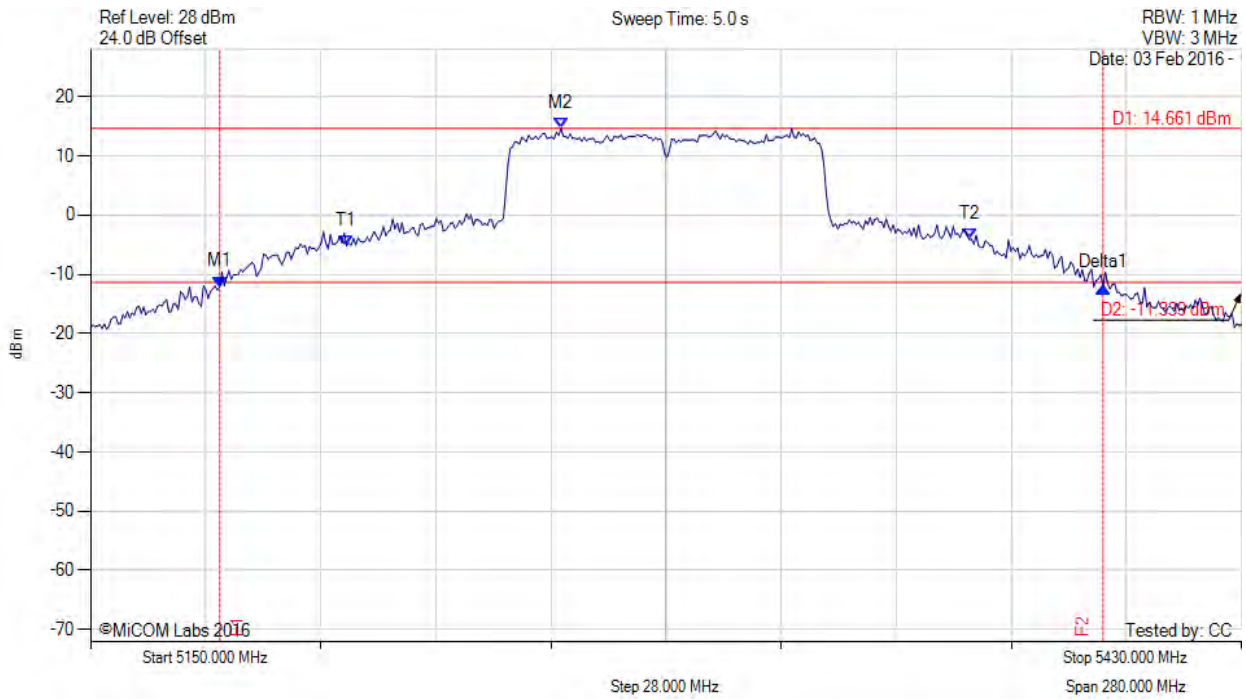
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 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 : 5181.423 MHz : -12.112 dBm M2 : 5264.469 MHz : 14.661 dBm Delta1 : 214.910 MHz : -0.057 dB T1 : 5212.285 MHz : -5.213 dBm T2 : 5363.788 MHz : -4.137 dBm OBW : 151.503 MHz	Measured 26 dB Bandwidth: 214.910 MHz Measured 99% Bandwidth: 151.503 MHz

back to matrix

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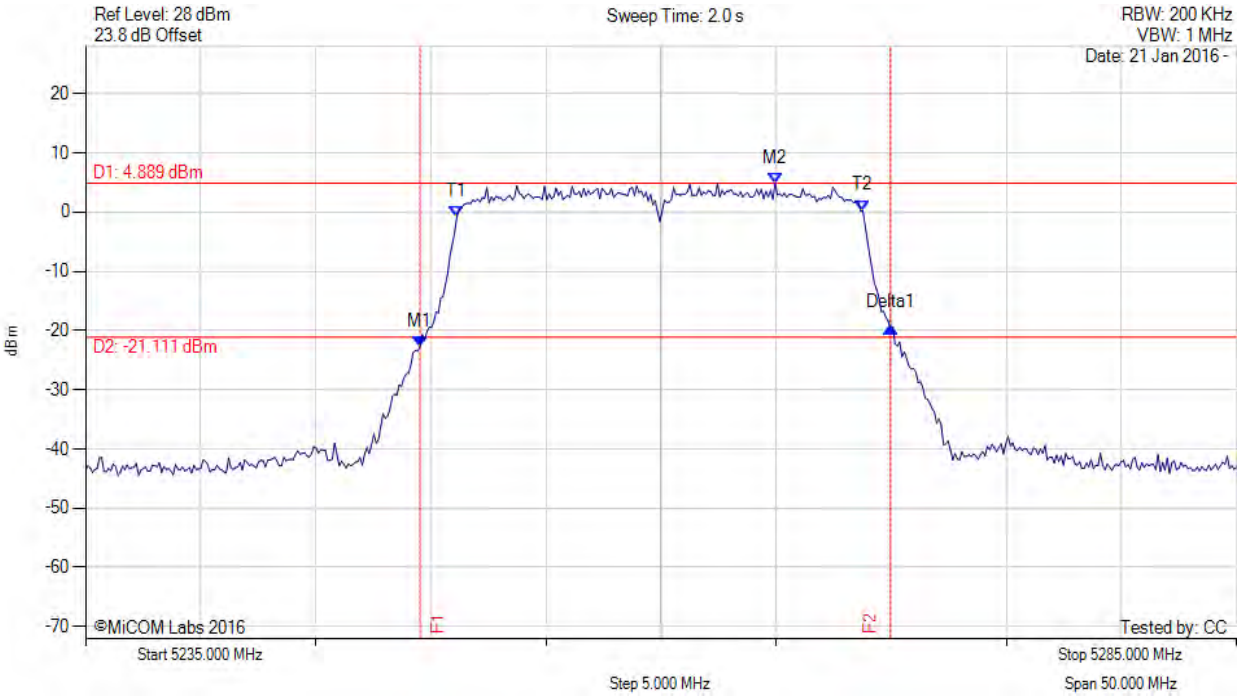
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 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 : 5249.529 MHz : -22.781 dBm M2 : 5264.960 MHz : 4.889 dBm Delta1 : 20.441 MHz : 3.221 dB T1 : 5251.132 MHz : -0.757 dBm T2 : 5268.768 MHz : 0.270 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.441 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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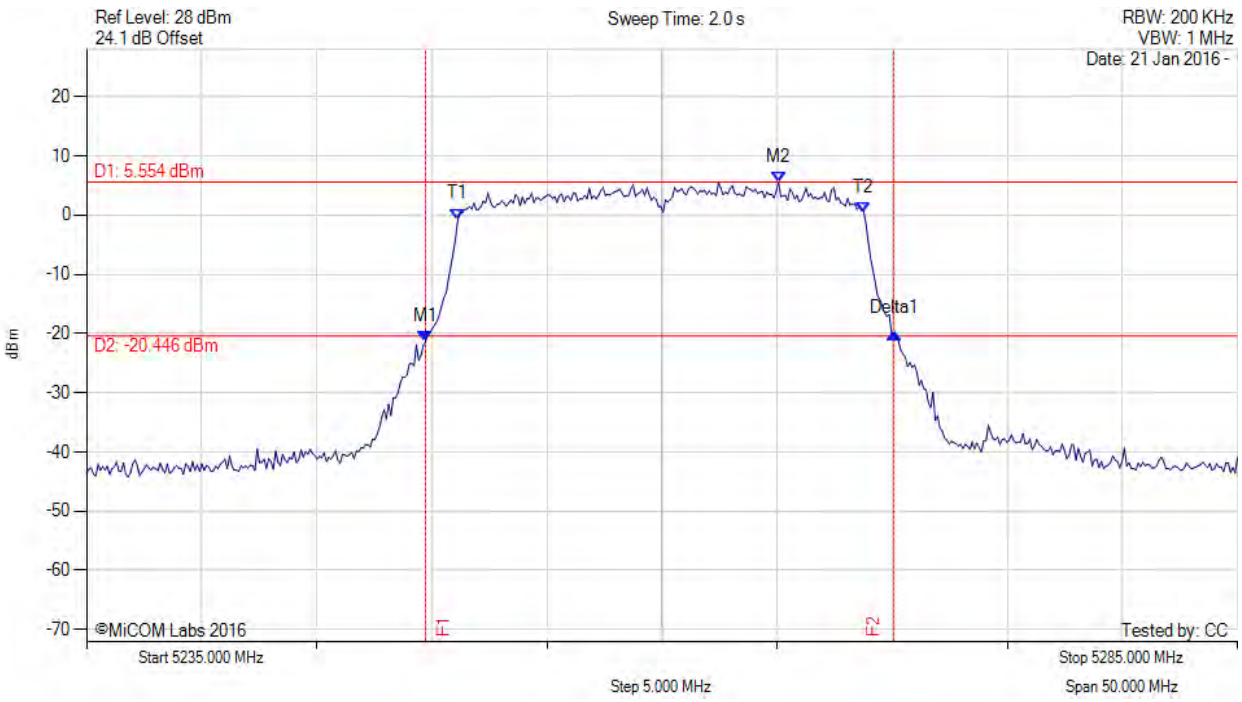
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 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 : 5249.729 MHz : -21.396 dBm M2 : 5265.060 MHz : 5.554 dBm Delta1 : 20.341 MHz : 1.357 dB T1 : 5251.132 MHz : -0.672 dBm T2 : 5268.768 MHz : 0.475 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.341 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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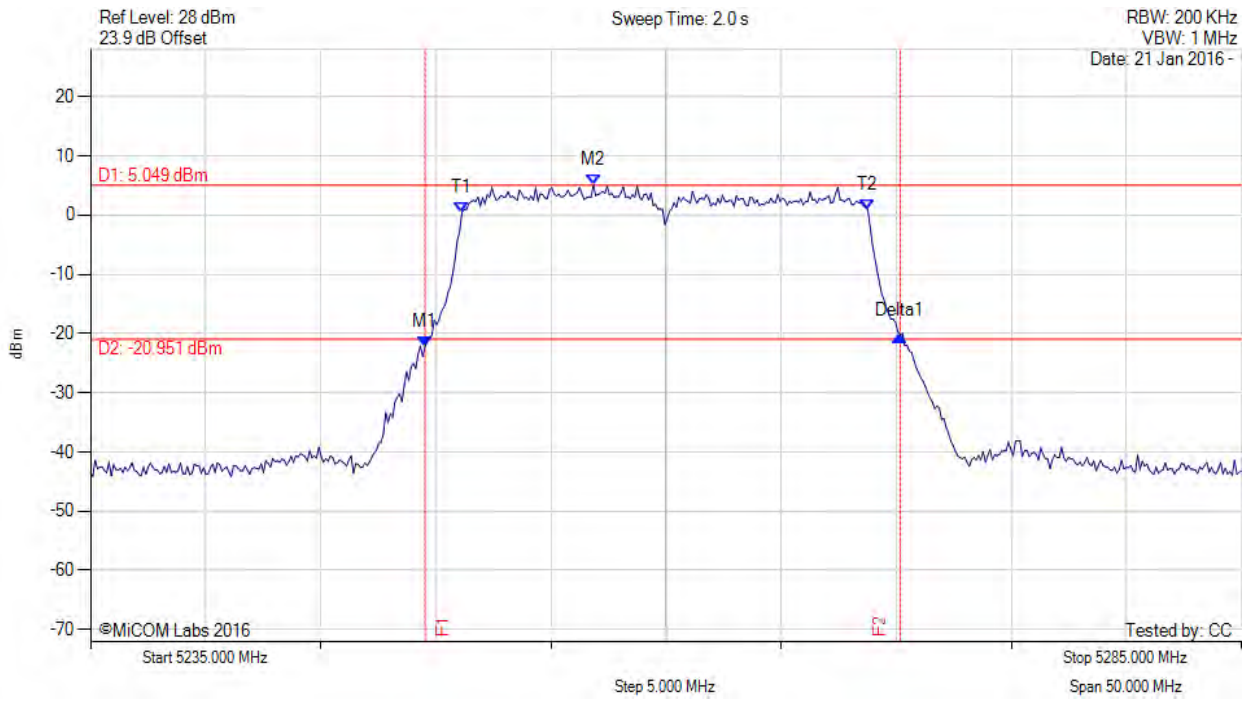
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 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 : 5249.529 MHz : -22.333 dBm M2 : 5256.844 MHz : 5.049 dBm Delta1 : 20.641 MHz : 2.017 dB T1 : 5251.132 MHz : 0.396 dBm T2 : 5268.768 MHz : 0.811 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.641 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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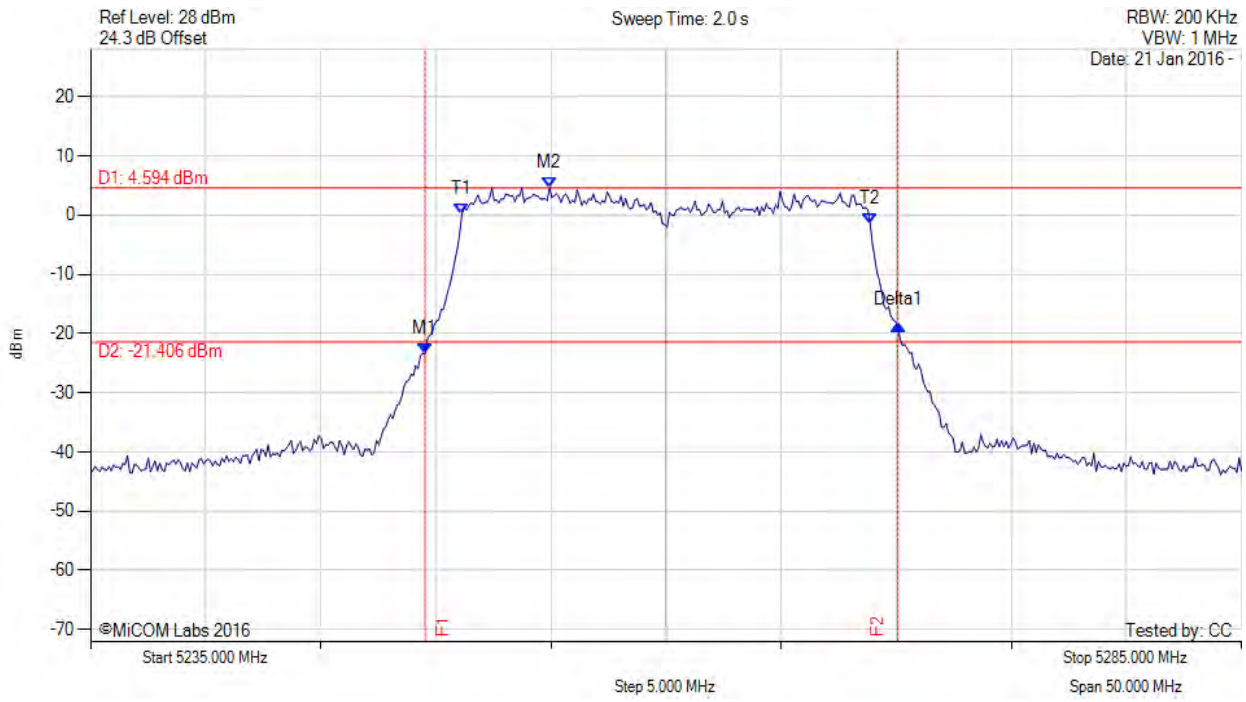
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 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 : 5249.529 MHz : -23.476 dBm M2 : 5254.940 MHz : 4.594 dBm Delta1 : 20.541 MHz : 4.905 dB T1 : 5251.132 MHz : 0.219 dBm T2 : 5268.868 MHz : -1.379 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.541 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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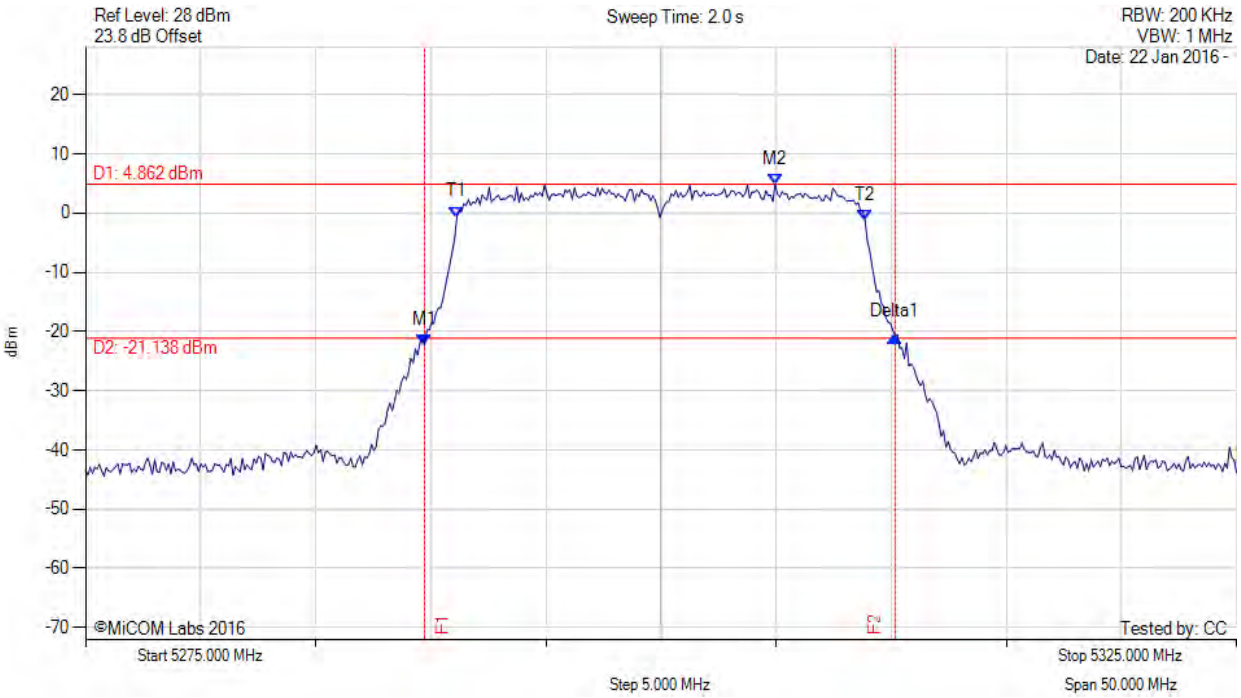
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 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 : 5289.729 MHz : -22.335 dBm M2 : 5304.960 MHz : 4.862 dBm Delta1 : 20.441 MHz : 1.523 dB T1 : 5291.132 MHz : -0.668 dBm T2 : 5308.868 MHz : -1.296 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.441 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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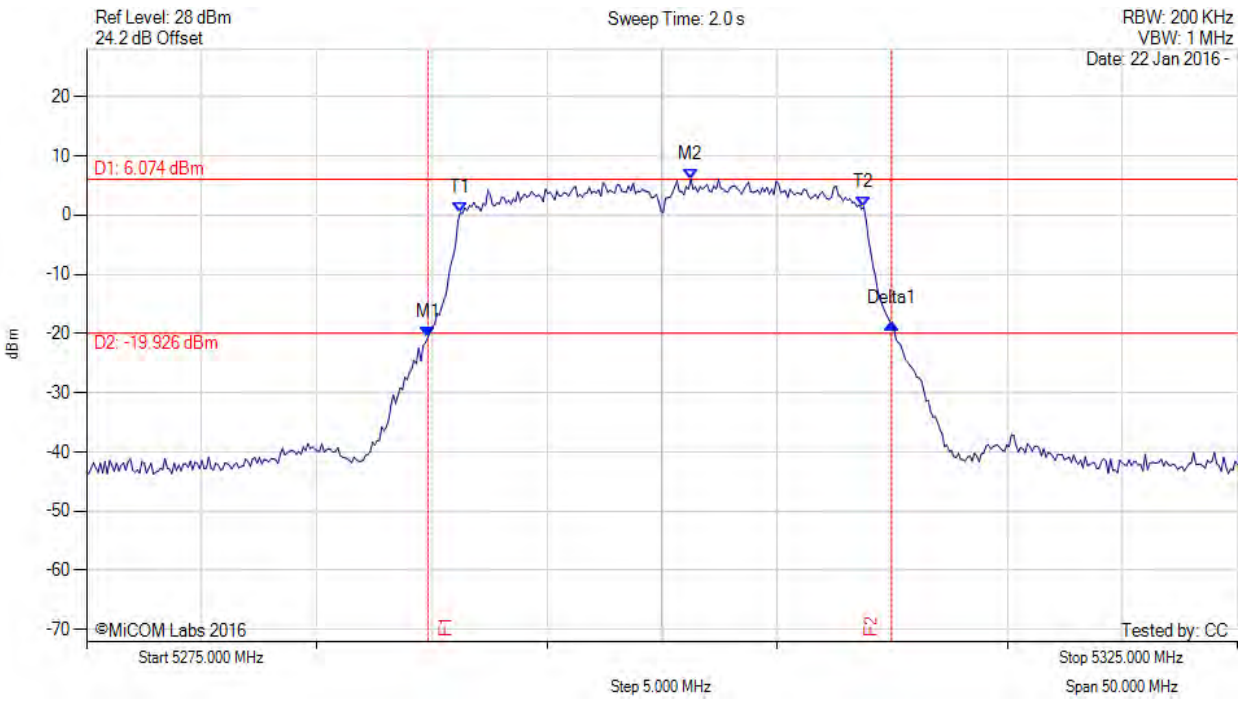
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 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 : 5289.830 MHz : -20.625 dBm M2 : 5301.253 MHz : 6.074 dBm Delta1 : 20.140 MHz : 2.266 dB T1 : 5291.232 MHz : 0.355 dBm T2 : 5308.768 MHz : 1.407 dBm OBW : 17.535 MHz	Measured 26 dB Bandwidth: 20.140 MHz Measured 99% Bandwidth: 17.535 MHz

back to matrix

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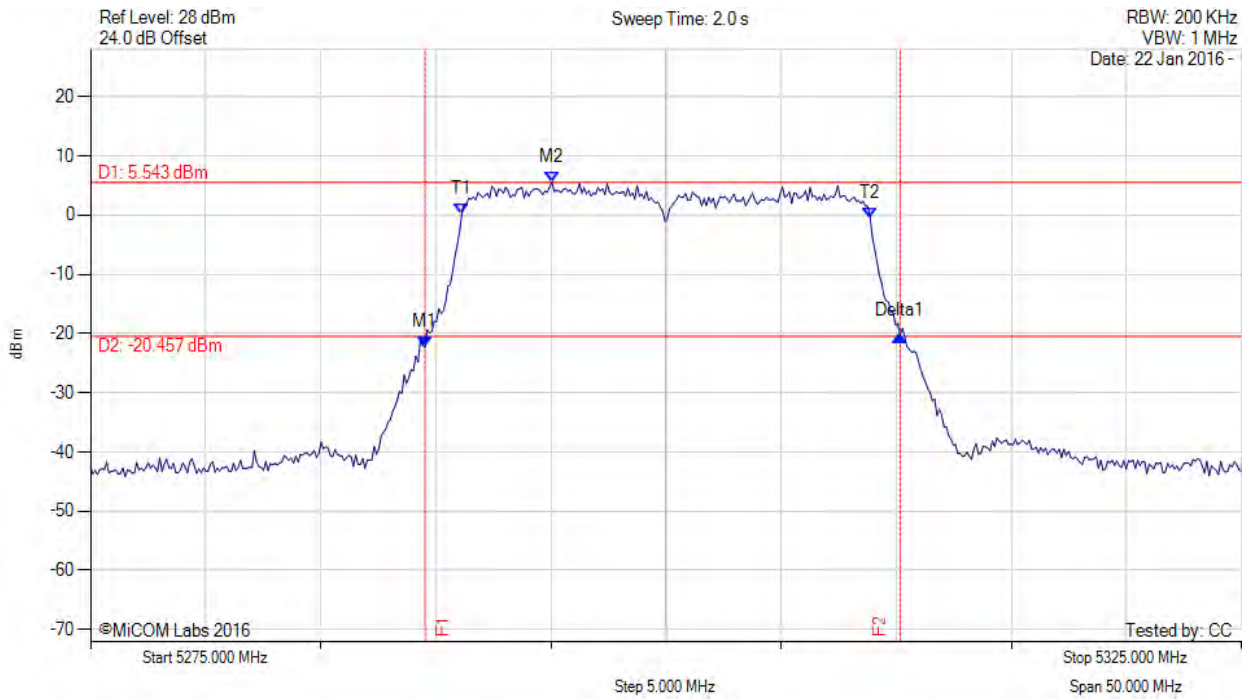
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 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 : 5289.529 MHz : -22.303 dBm M2 : 5295.040 MHz : 5.543 dBm Delta1 : 20.641 MHz : 1.973 dB T1 : 5291.132 MHz : 0.258 dBm T2 : 5308.868 MHz : -0.442 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.641 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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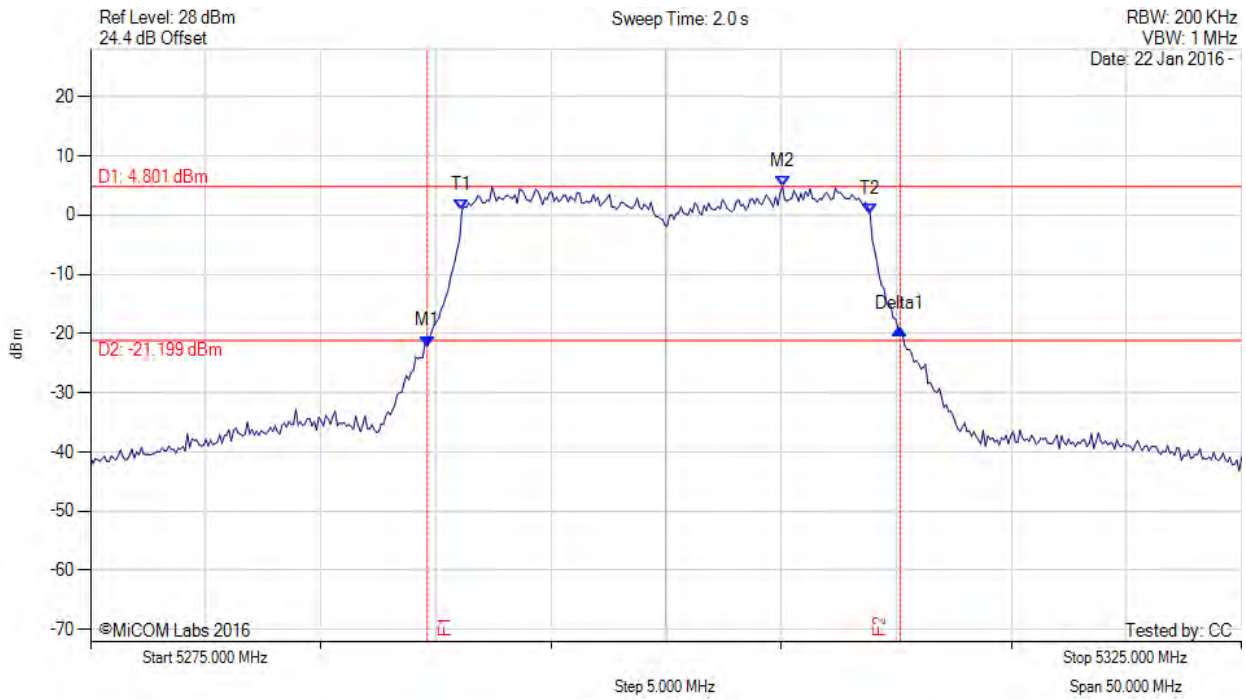
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 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 : 5289.629 MHz : -22.150 dBm M2 : 5305.060 MHz : 4.801 dBm Delta1 : 20.541 MHz : 2.971 dB T1 : 5291.132 MHz : 0.799 dBm T2 : 5308.868 MHz : 0.109 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.541 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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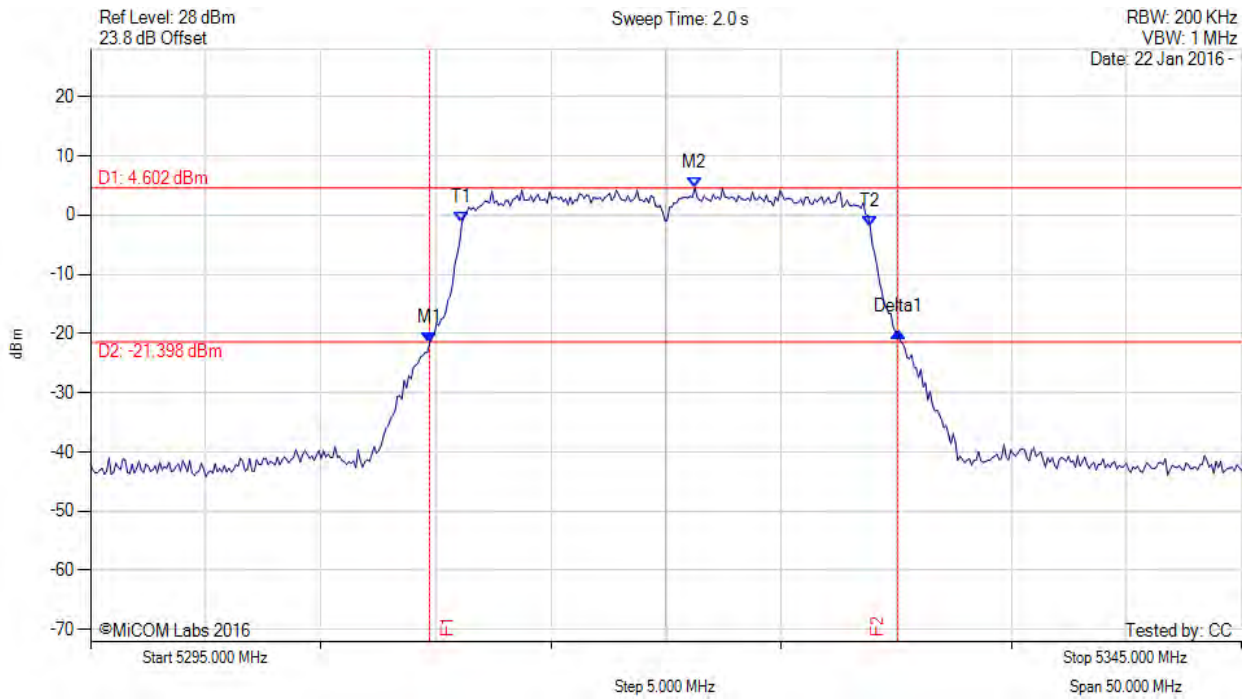
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 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 : 5309.729 MHz : -21.656 dBm M2 : 5321.253 MHz : 4.602 dBm Delta1 : 20.341 MHz : 1.981 dB T1 : 5311.132 MHz : -1.294 dBm T2 : 5328.868 MHz : -1.931 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.341 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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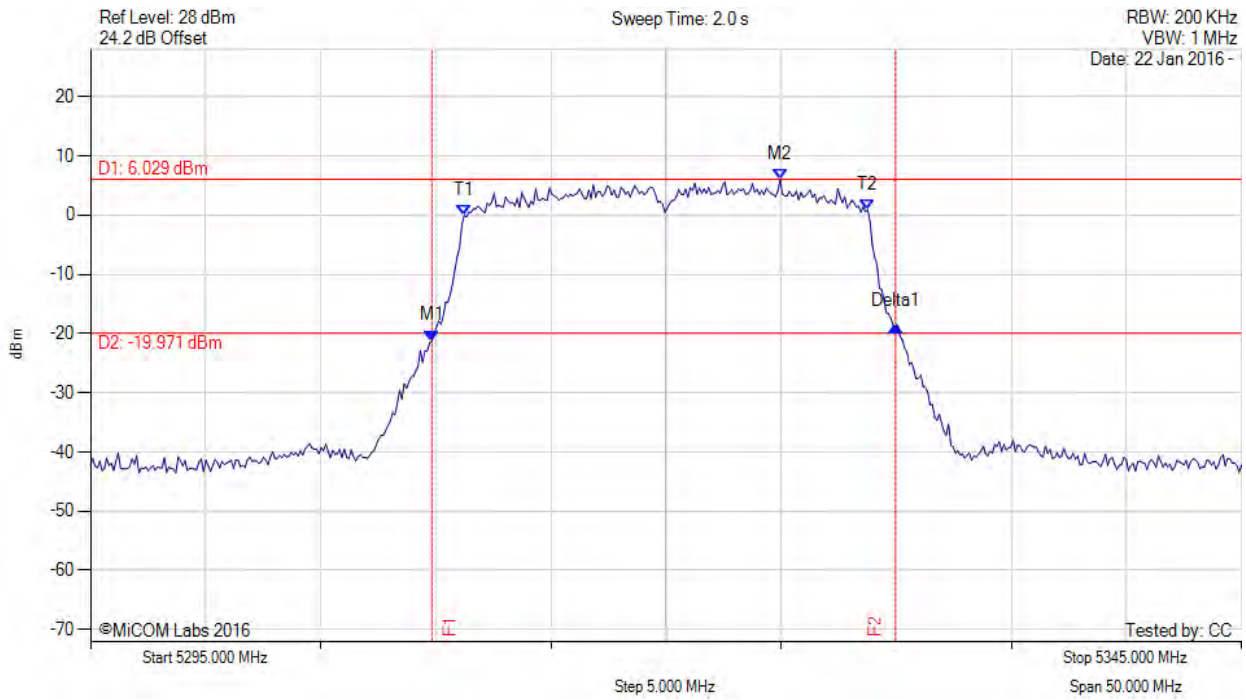
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 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 : 5309.830 MHz : -21.233 dBm M2 : 5324.960 MHz : 6.029 dBm Delta1 : 20.140 MHz : 2.430 dB T1 : 5311.232 MHz : -0.058 dBm T2 : 5328.768 MHz : 0.862 dBm OBW : 17.535 MHz	Measured 26 dB Bandwidth: 20.140 MHz Measured 99% Bandwidth: 17.535 MHz

back to matrix

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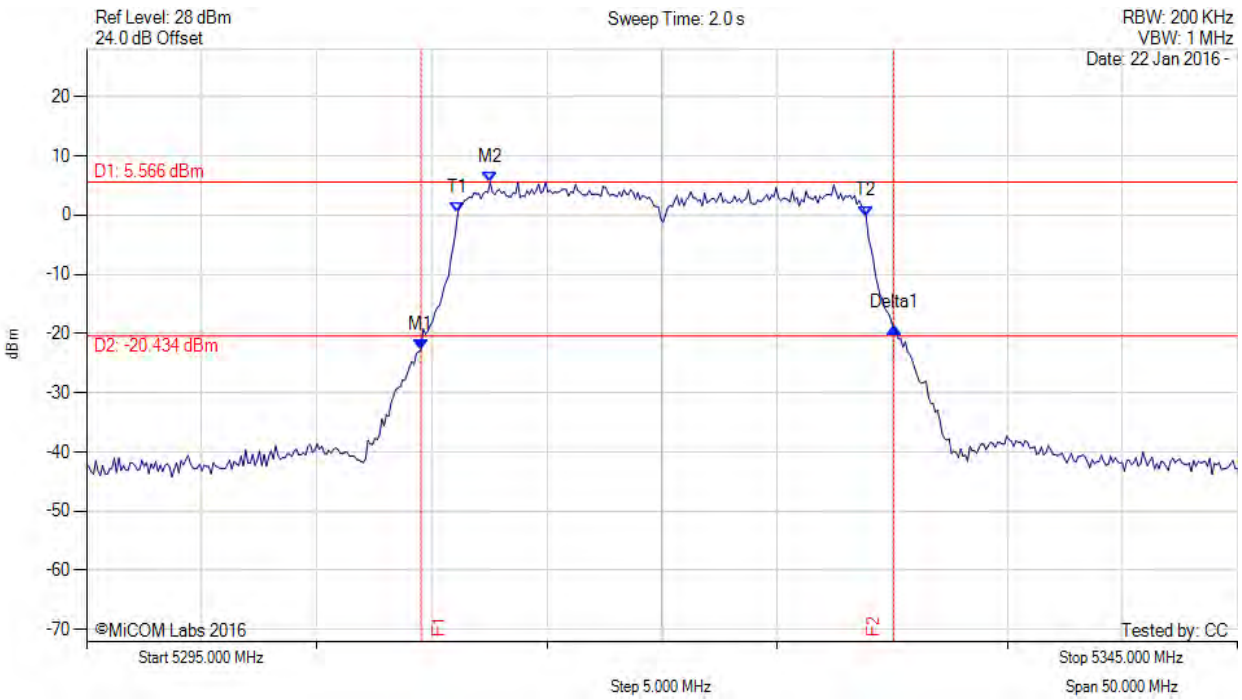
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 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 : 5309.529 MHz : -22.825 dBm M2 : 5312.535 MHz : 5.566 dBm Delta1 : 20.541 MHz : 3.779 dB T1 : 5311.132 MHz : 0.424 dBm T2 : 5328.868 MHz : -0.188 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.541 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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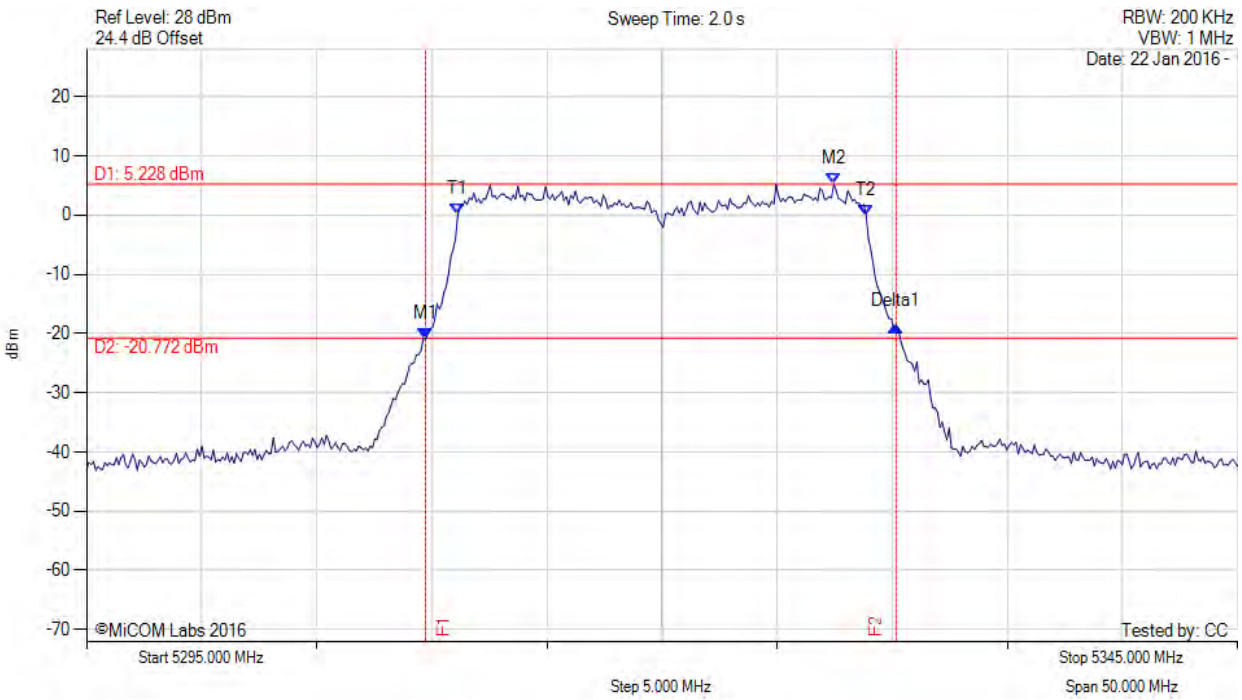
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 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 : 5309.729 MHz : -20.903 dBm M2 : 5327.465 MHz : 5.228 dBm Delta1 : 20.441 MHz : 2.103 dB T1 : 5311.132 MHz : 0.180 dBm T2 : 5328.868 MHz : 0.018 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.441 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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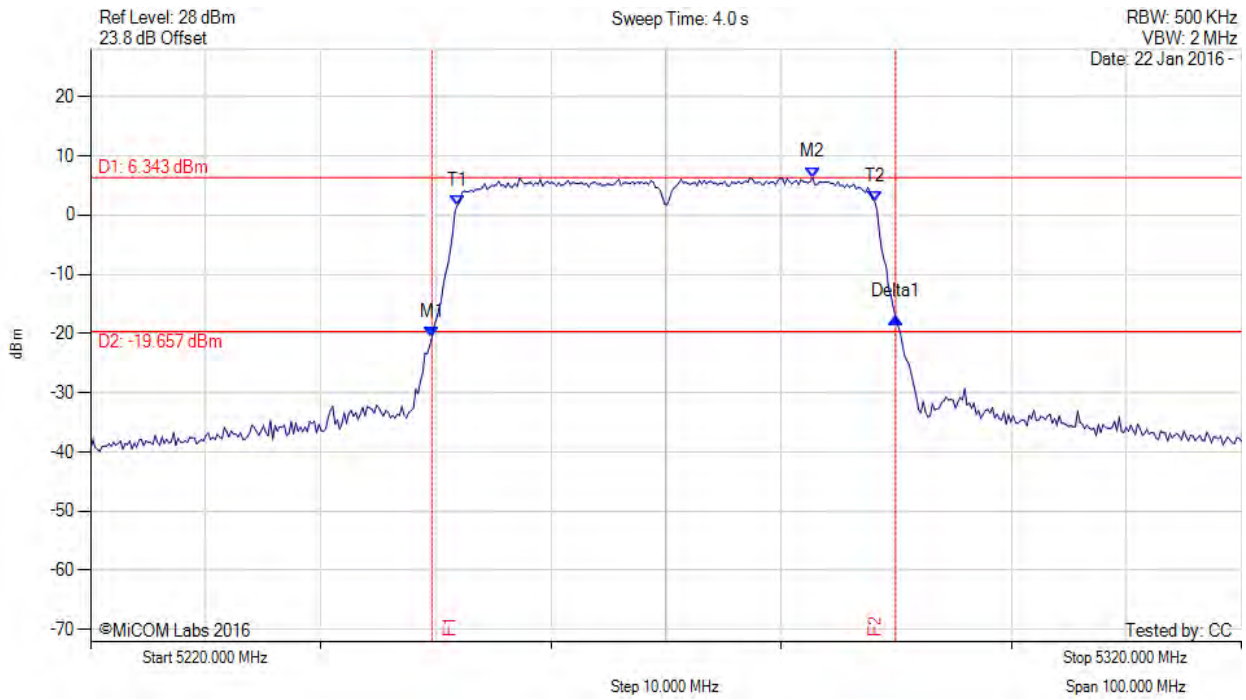
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 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 : 5249.659 MHz : -20.651 dBm M2 : 5282.725 MHz : 6.343 dBm Delta1 : 40.281 MHz : 3.386 dB T1 : 5251.864 MHz : 1.647 dBm T2 : 5288.136 MHz : 2.314 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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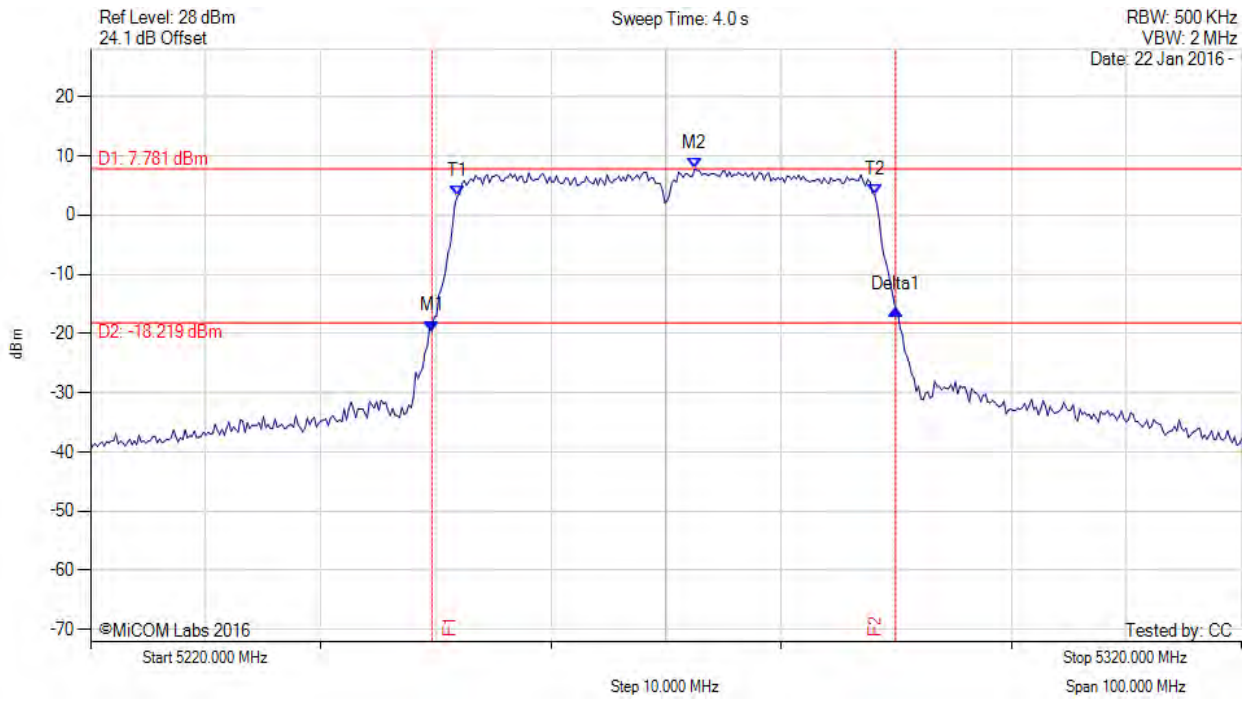
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 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 : 5249.659 MHz : -19.575 dBm M2 : 5272.505 MHz : 7.781 dBm Delta1 : 40.281 MHz : 3.653 dB T1 : 5251.864 MHz : 3.172 dBm T2 : 5288.136 MHz : 3.467 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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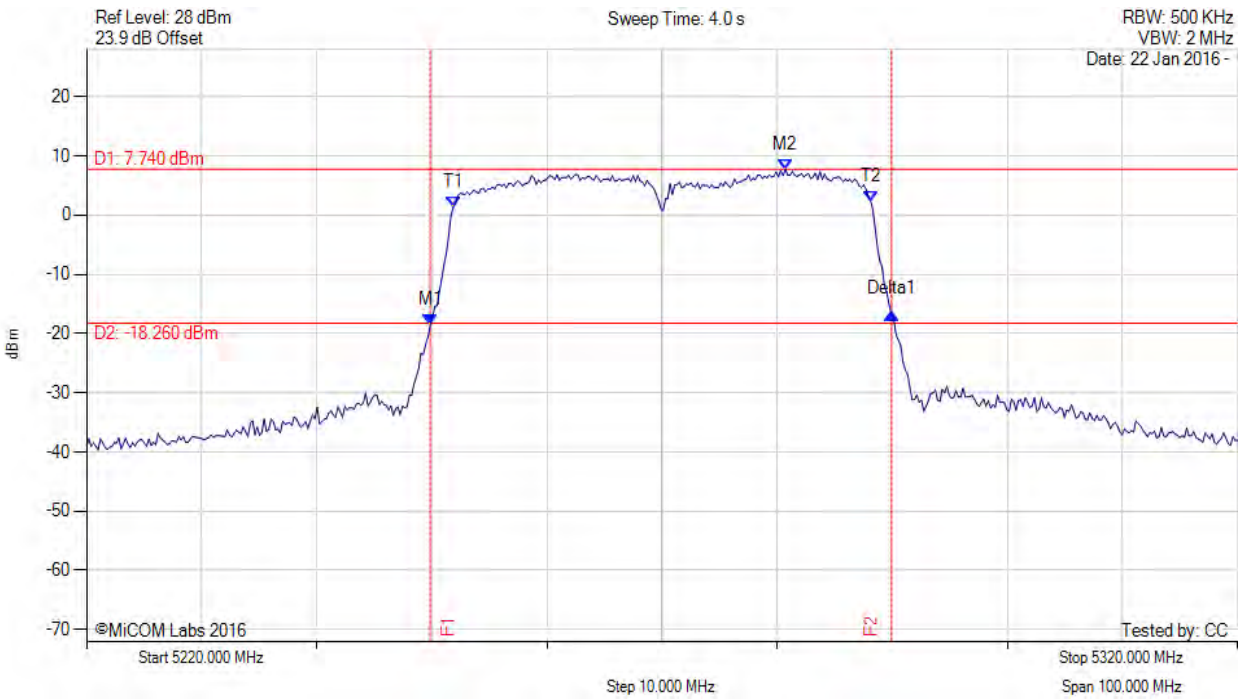
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 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 : 5249.860 MHz : -18.579 dBm M2 : 5280.721 MHz : 7.740 dBm Delta1 : 40.080 MHz : 1.889 dB T1 : 5251.864 MHz : 1.348 dBm T2 : 5288.136 MHz : 2.350 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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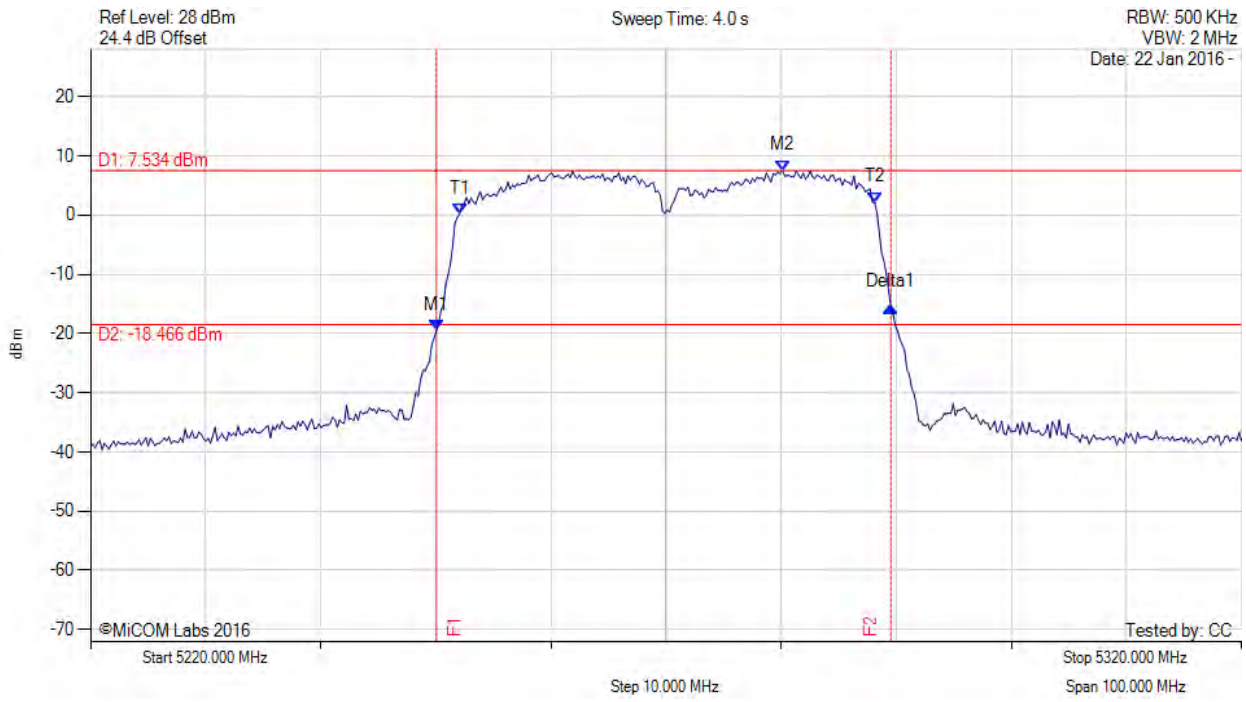
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 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 : 5250.060 MHz : -19.419 dBm M2 : 5280.120 MHz : 7.534 dBm Delta1 : 39.479 MHz : 3.872 dB T1 : 5252.064 MHz : 0.199 dBm T2 : 5288.136 MHz : 2.147 dBm OBW : 36.072 MHz	Measured 26 dB Bandwidth: 39.479 MHz Measured 99% Bandwidth: 36.072 MHz

back to matrix

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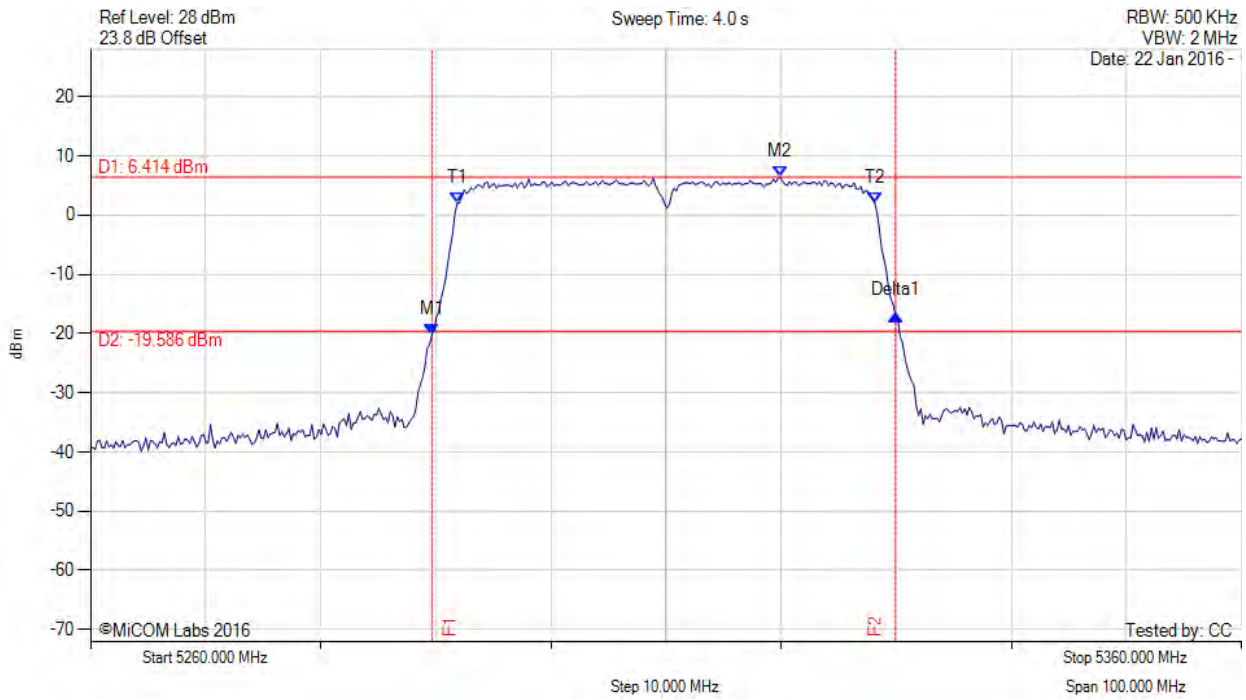
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 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 : 5289.659 MHz : -20.210 dBm M2 : 5319.920 MHz : 6.414 dBm Delta1 : 40.281 MHz : 3.223 dB T1 : 5291.864 MHz : 2.027 dBm T2 : 5328.136 MHz : 2.088 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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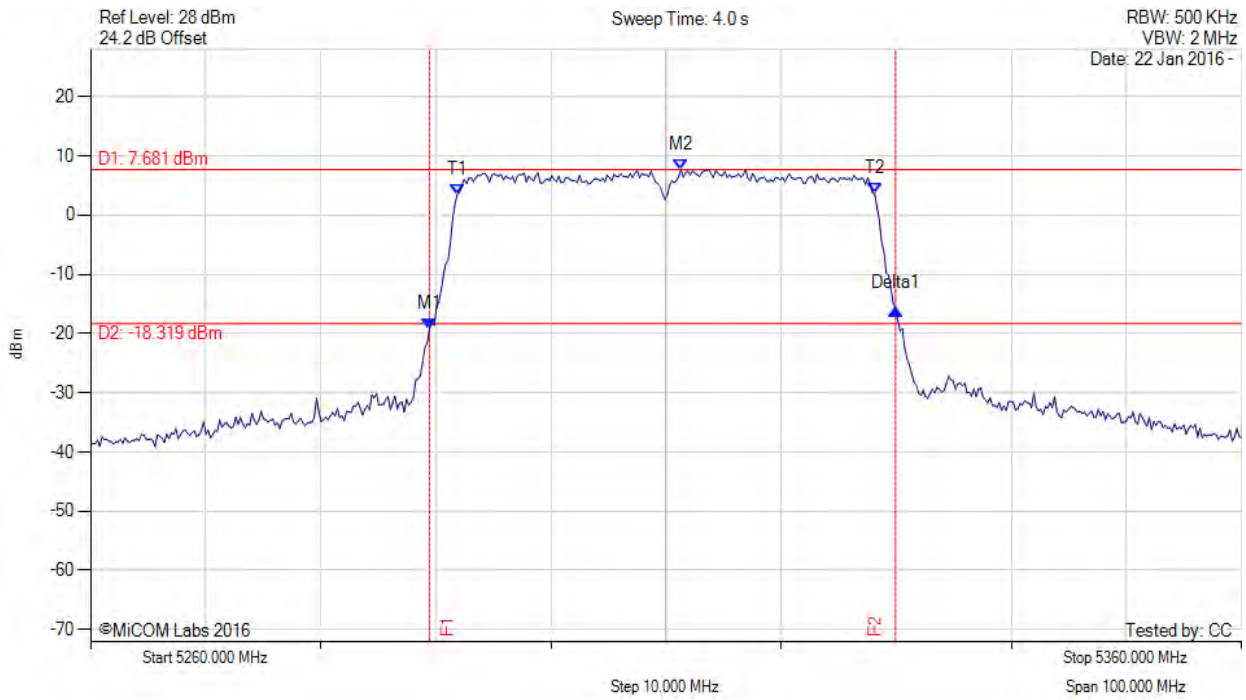
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 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 : 5289.459 MHz : -19.146 dBm M2 : 5311.303 MHz : 7.681 dBm Delta1 : 40.481 MHz : 3.287 dB T1 : 5291.864 MHz : 3.477 dBm T2 : 5328.136 MHz : 3.599 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.481 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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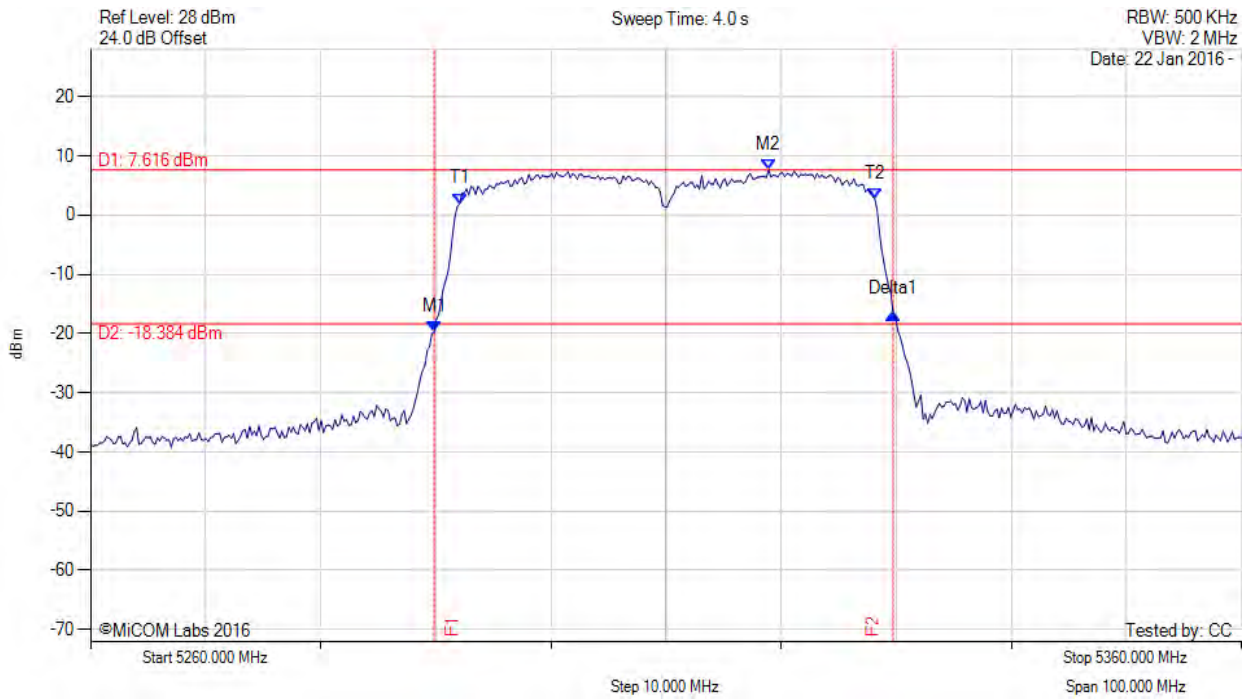
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 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 : 5289.860 MHz : -19.734 dBm M2 : 5318.918 MHz : 7.616 dBm Delta1 : 39.880 MHz : 3.148 dB T1 : 5292.064 MHz : 1.901 dBm T2 : 5328.136 MHz : 2.725 dBm OBW : 36.072 MHz	Measured 26 dB Bandwidth: 39.880 MHz Measured 99% Bandwidth: 36.072 MHz

back to matrix

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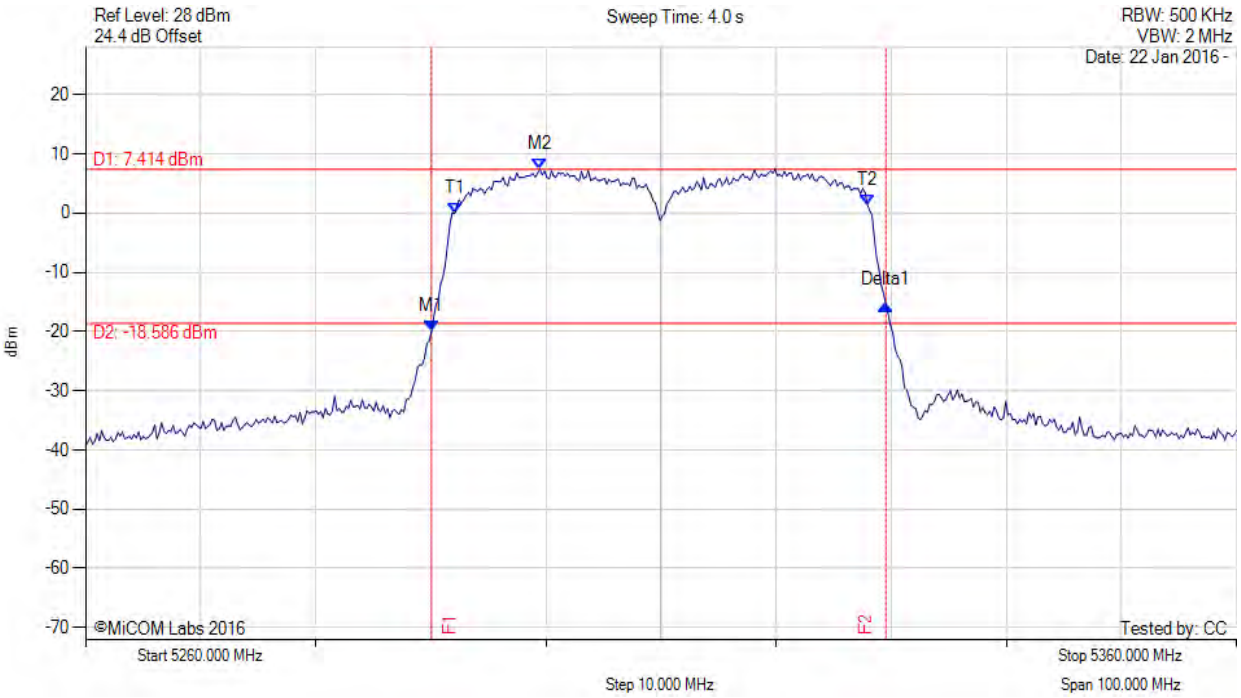
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 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 : 5290.060 MHz : -19.976 dBm M2 : 5299.479 MHz : 7.414 dBm Delta1 : 39.479 MHz : 4.436 dB T1 : 5292.064 MHz : -0.098 dBm T2 : 5327.936 MHz : 1.378 dBm OBW : 35.872 MHz	Measured 26 dB Bandwidth: 39.479 MHz Measured 99% Bandwidth: 35.872 MHz

back to matrix

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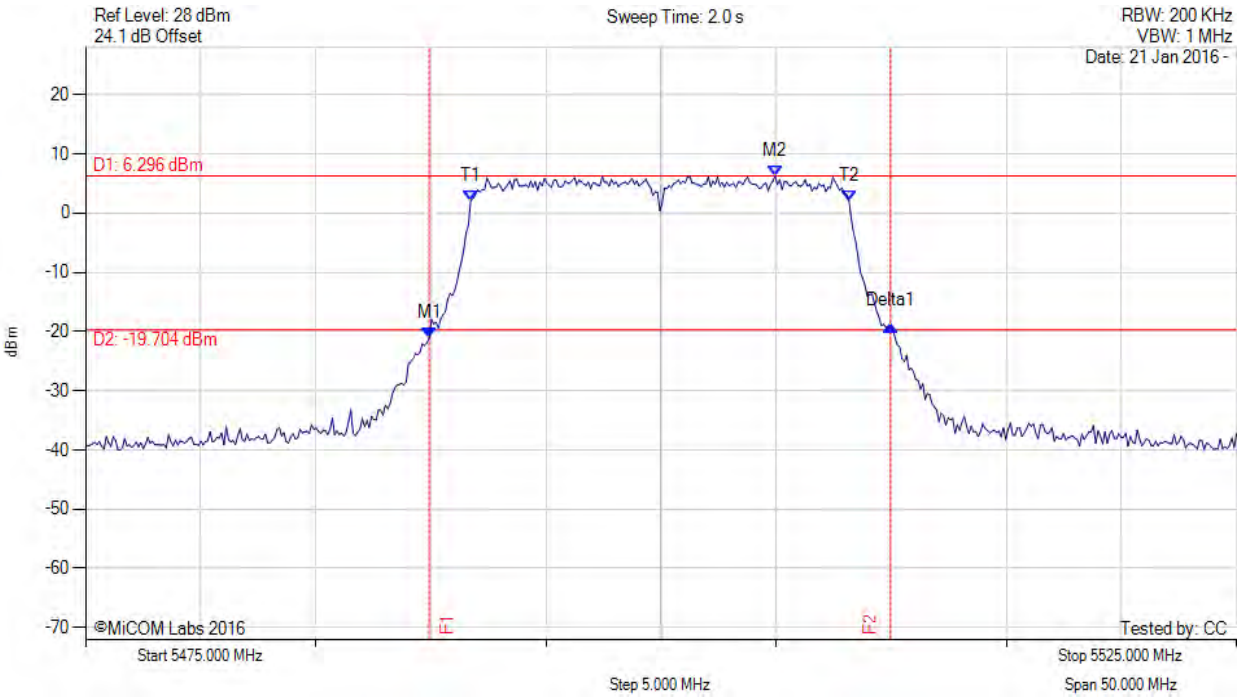
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 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 : 5489.930 MHz : -21.084 dBm M2 : 5504.960 MHz : 6.296 dBm Delta1 : 20.040 MHz : 2.011 dB T1 : 5491.733 MHz : 2.086 dBm T2 : 5508.166 MHz : 2.086 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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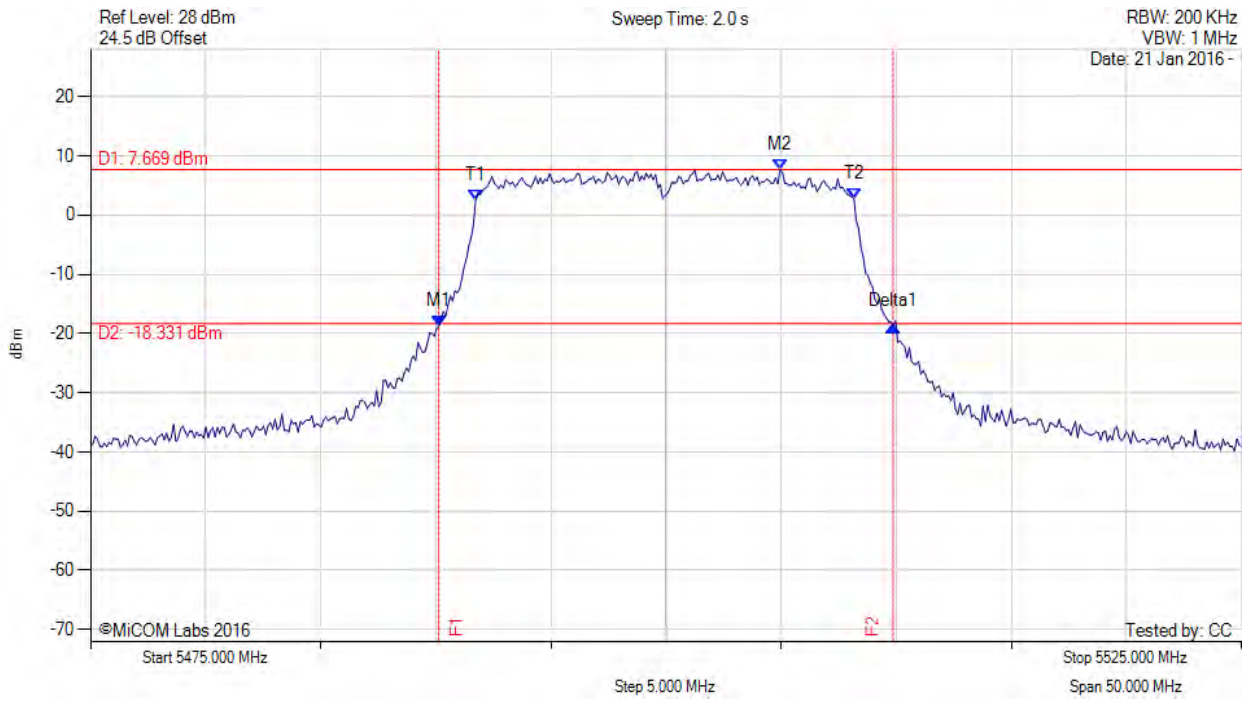
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 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 : 5490.130 MHz : -18.811 dBm M2 : 5504.960 MHz : 7.669 dBm Delta1 : 19.739 MHz : 0.136 dB T1 : 5491.733 MHz : 2.568 dBm T2 : 5508.166 MHz : 2.769 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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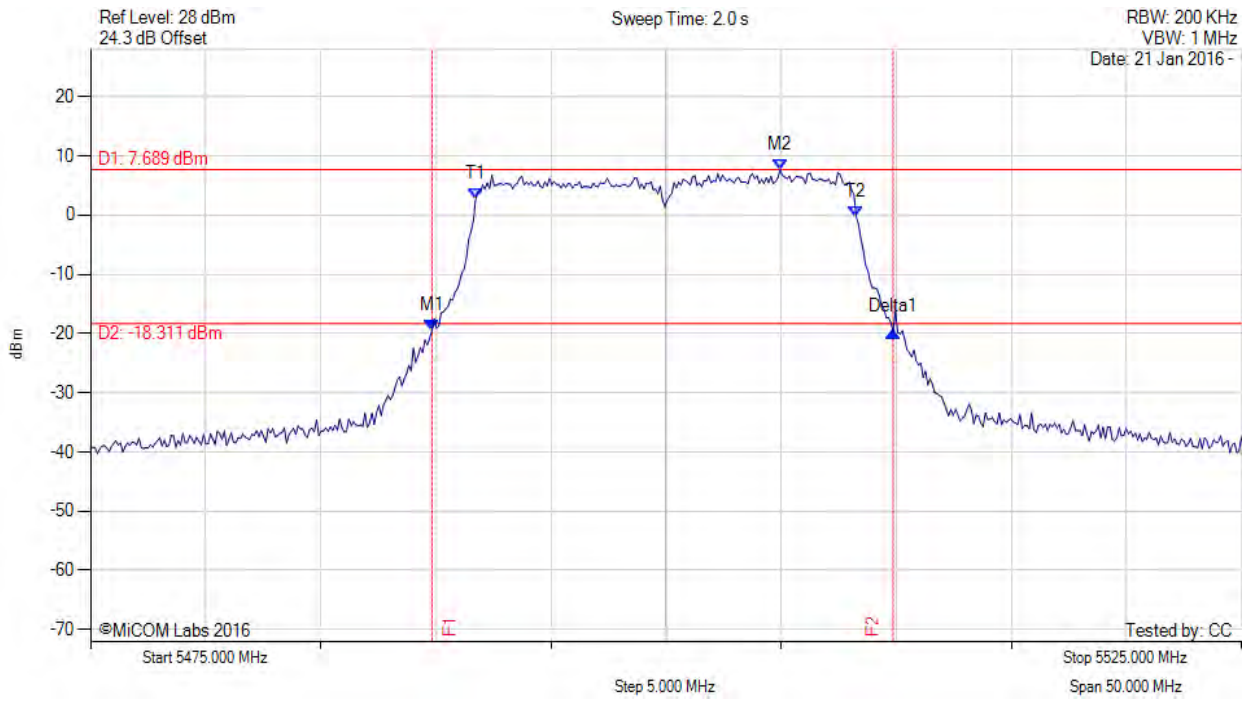
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 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 : 5489.830 MHz : -19.490 dBm M2 : 5504.960 MHz : 7.689 dBm Delta1 : 20.040 MHz : -0.242 dB T1 : 5491.733 MHz : 2.777 dBm T2 : 5508.267 MHz : -0.277 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 16.533 MHz

back to matrix

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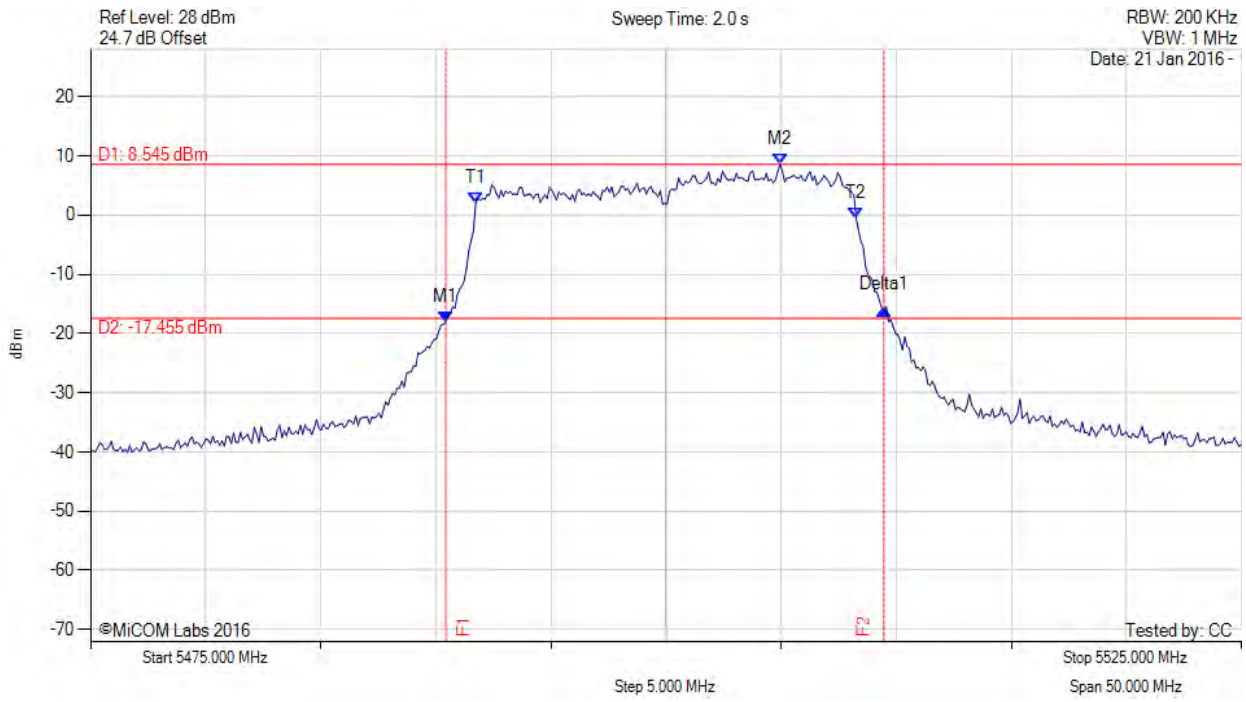
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 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 : 5490.431 MHz : -17.971 dBm M2 : 5504.960 MHz : 8.545 dBm Delta1 : 19.038 MHz : 2.064 dB T1 : 5491.733 MHz : 1.968 dBm T2 : 5508.267 MHz : -0.572 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.038 MHz Measured 99% Bandwidth: 16.533 MHz

back to matrix

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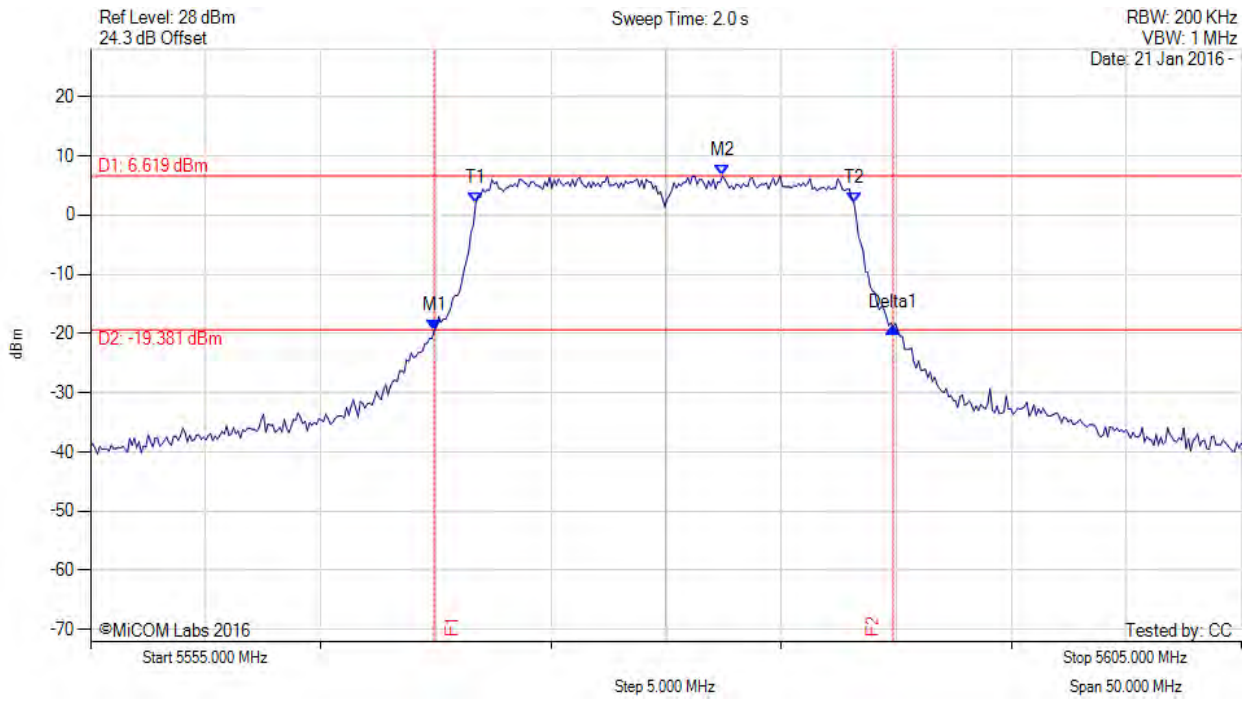
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 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 : 5569.930 MHz : -19.557 dBm M2 : 5582.455 MHz : 6.619 dBm Delta1 : 19.940 MHz : 0.651 dB T1 : 5571.733 MHz : 2.005 dBm T2 : 5588.166 MHz : 2.082 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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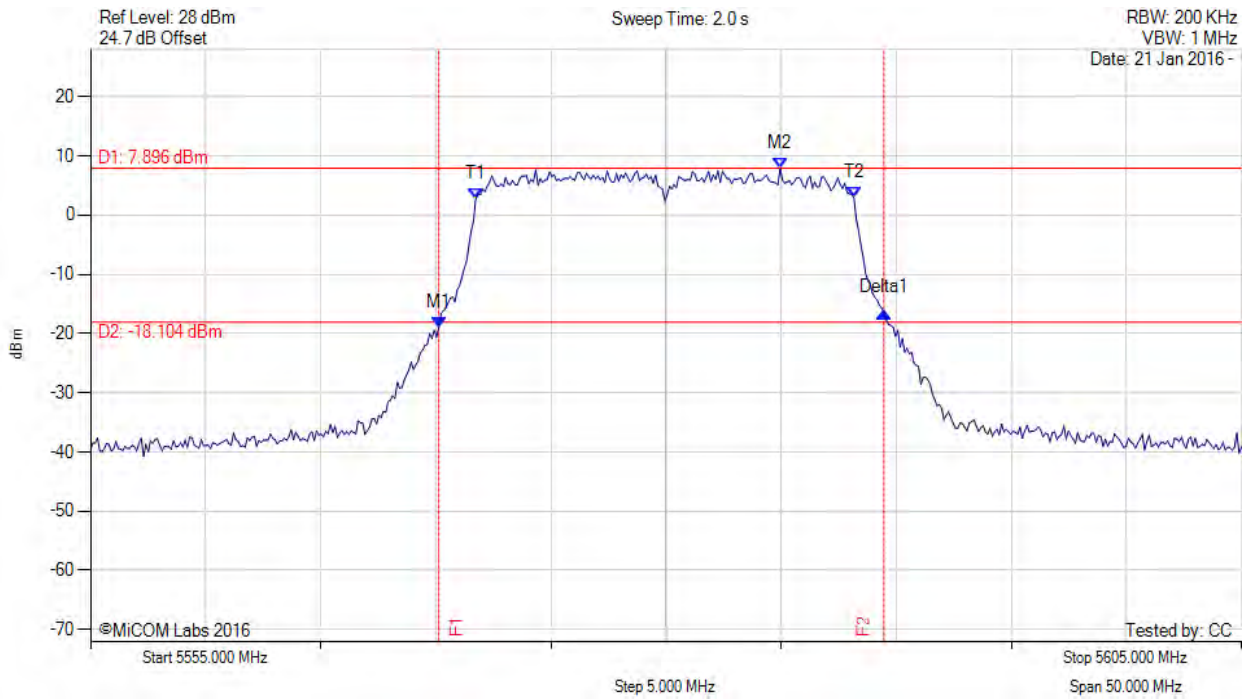
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 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 : 5570.130 MHz : -18.927 dBm M2 : 5584.960 MHz : 7.896 dBm Delta1 : 19.339 MHz : 2.516 dB T1 : 5571.733 MHz : 2.729 dBm T2 : 5588.166 MHz : 2.877 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.339 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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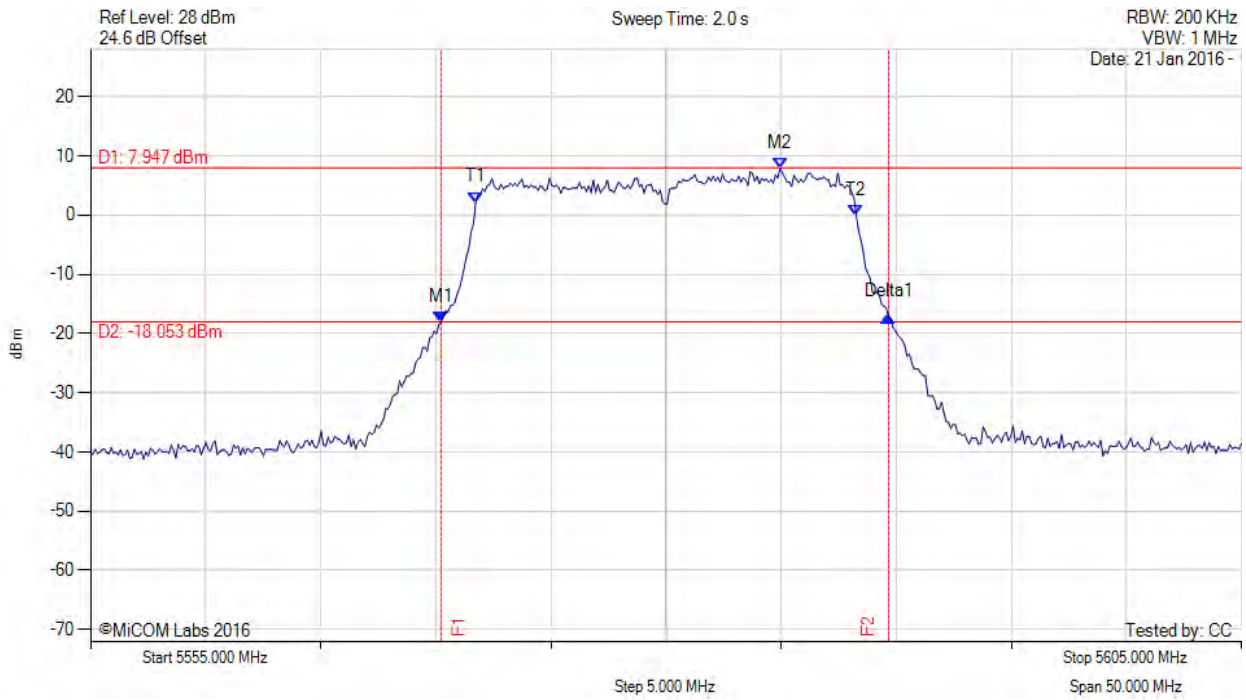
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 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 : 5570.230 MHz : -18.072 dBm M2 : 5584.960 MHz : 7.947 dBm Delta1 : 19.439 MHz : 0.901 dB T1 : 5571.733 MHz : 2.135 dBm T2 : 5588.267 MHz : -0.005 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.533 MHz

back to matrix

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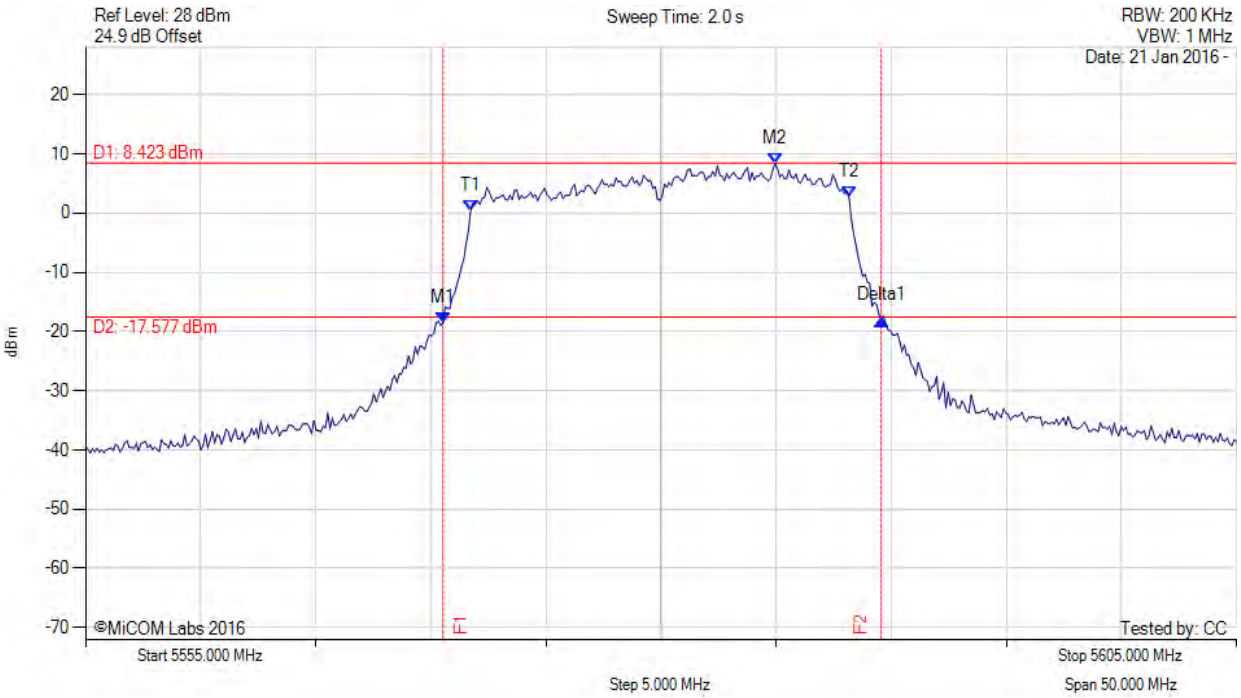
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 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 : 5570.531 MHz : -18.502 dBm M2 : 5584.960 MHz : 8.423 dBm Delta1 : 19.038 MHz : 0.517 dB T1 : 5571.733 MHz : 0.496 dBm T2 : 5588.166 MHz : 2.784 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.038 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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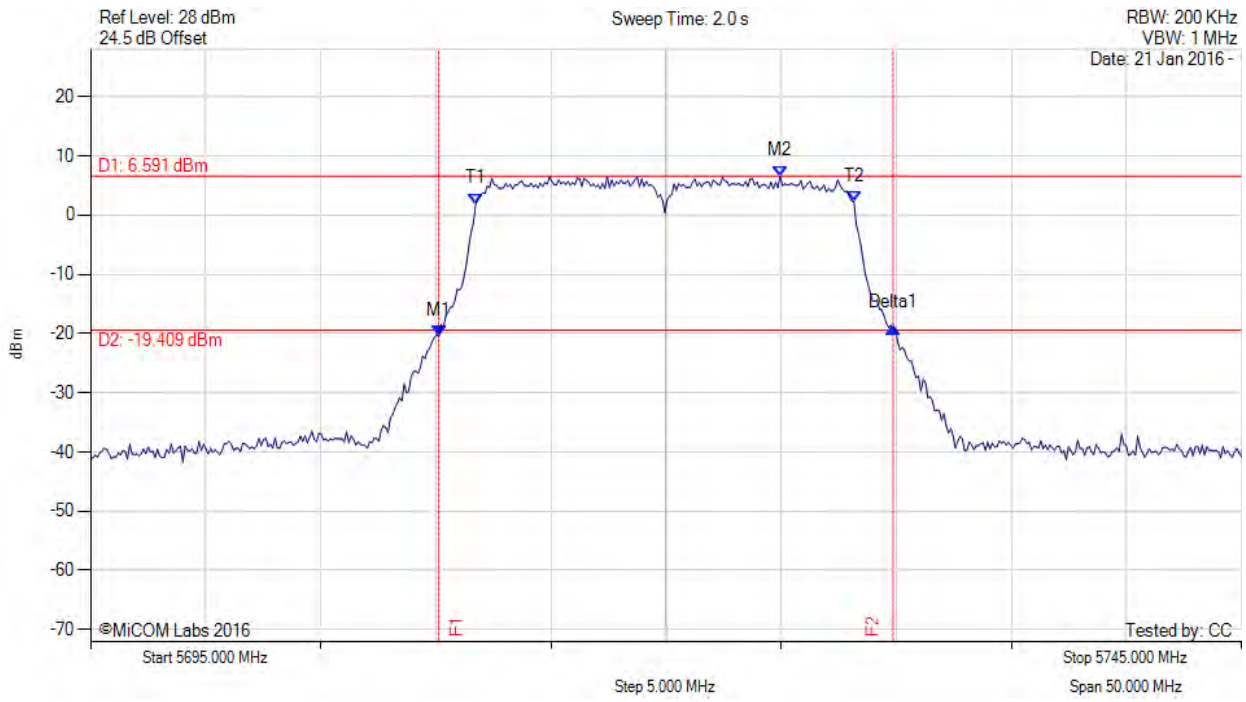
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 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 : 5710.130 MHz : -20.505 dBm M2 : 5724.960 MHz : 6.591 dBm Delta1 : 19.739 MHz : 1.542 dB T1 : 5711.733 MHz : 1.901 dBm T2 : 5728.166 MHz : 2.324 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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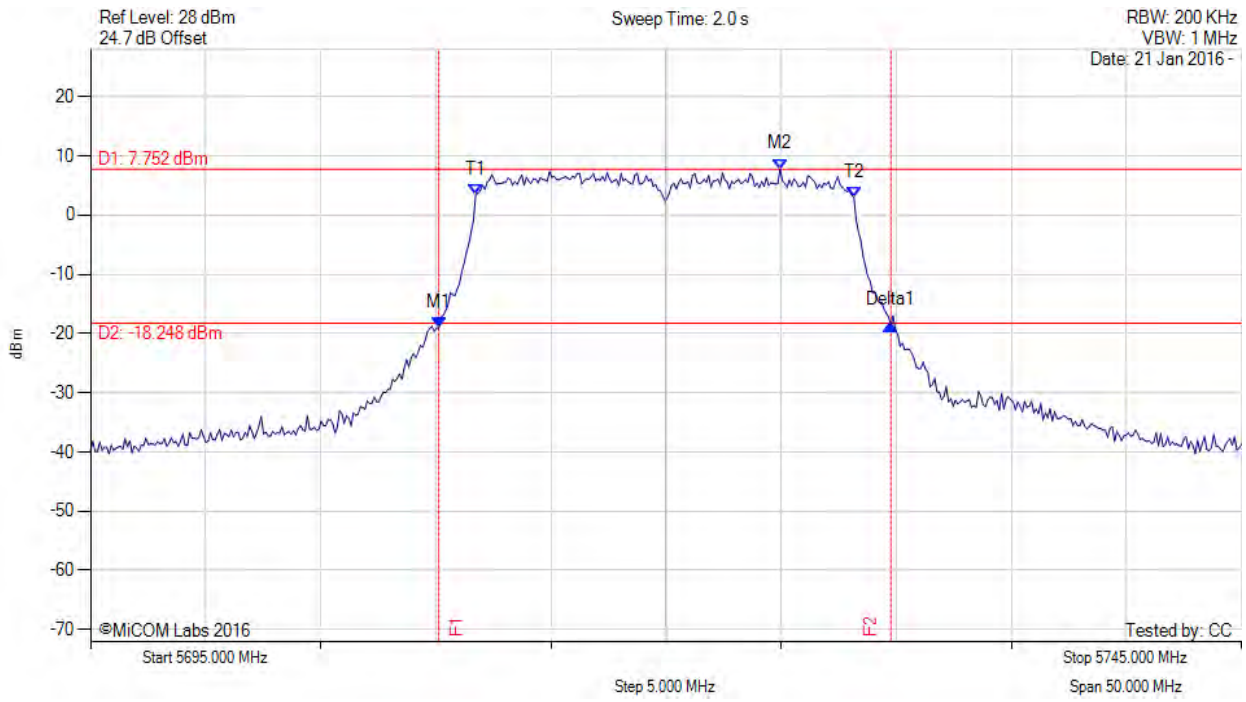
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 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 : 5710.130 MHz : -19.071 dBm M2 : 5724.960 MHz : 7.752 dBm Delta1 : 19.639 MHz : 0.474 dB T1 : 5711.733 MHz : 3.384 dBm T2 : 5728.166 MHz : 2.942 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.639 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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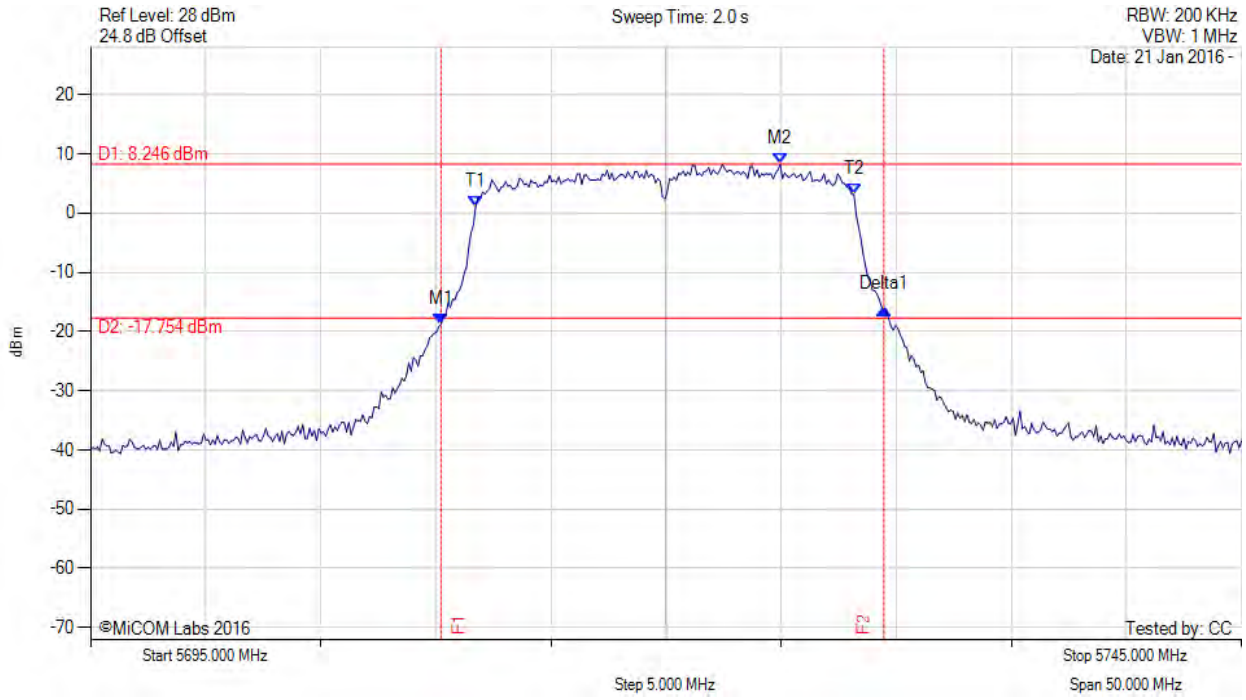
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 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 : 5710.230 MHz : -18.754 dBm M2 : 5724.960 MHz : 8.246 dBm Delta1 : 19.238 MHz : 2.495 dB T1 : 5711.733 MHz : 1.142 dBm T2 : 5728.166 MHz : 3.133 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.433 MHz

back to matrix

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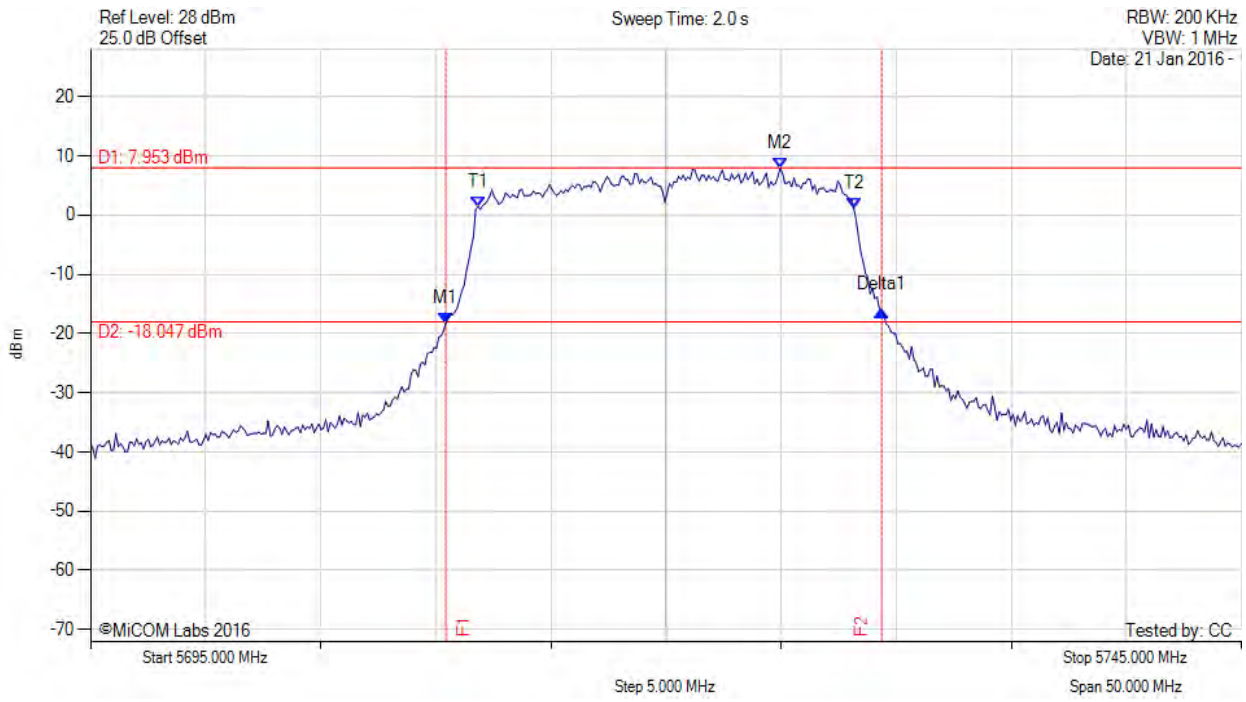
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 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 : 5710.431 MHz : -18.300 dBm M2 : 5724.960 MHz : 7.953 dBm Delta1 : 18.938 MHz : 2.223 dB T1 : 5711.834 MHz : 1.429 dBm T2 : 5728.166 MHz : 1.083 dBm OBW : 16.333 MHz	Measured 26 dB Bandwidth: 18.938 MHz Measured 99% Bandwidth: 16.333 MHz

back to matrix

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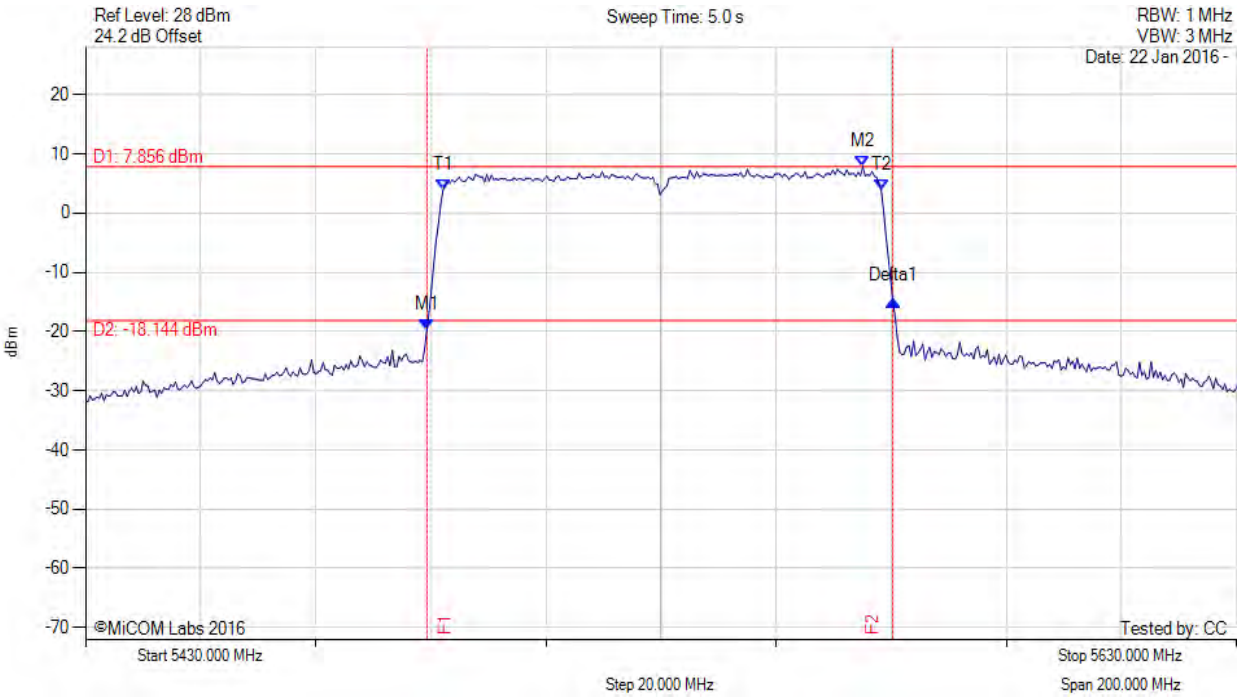
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5489.319 MHz : -19.612 dBm M2 : 5565.070 MHz : 7.856 dBm Delta1 : 80.962 MHz : 4.863 dB T1 : 5492.124 MHz : 3.872 dBm T2 : 5568.277 MHz : 3.894 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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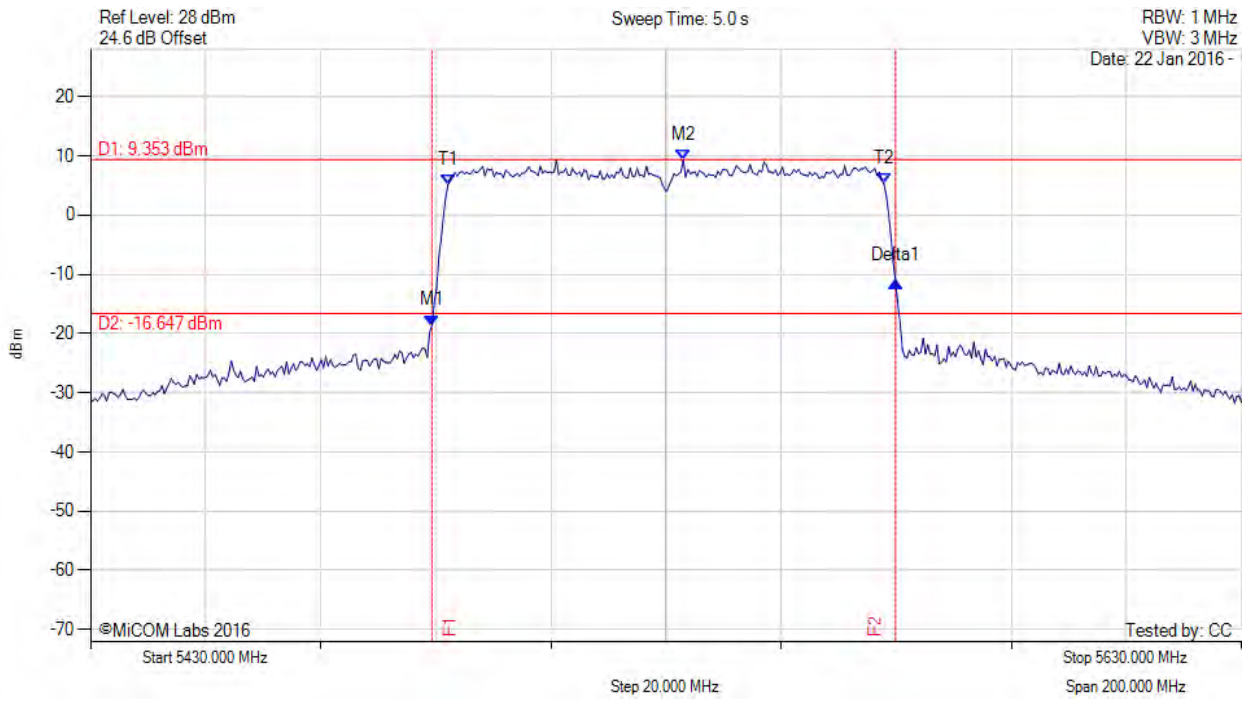
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 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 : 5489.319 MHz : -18.646 dBm M2 : 5533.006 MHz : 9.353 dBm Delta1 : 80.561 MHz : 7.476 dB T1 : 5492.124 MHz : 5.151 dBm T2 : 5567.876 MHz : 5.265 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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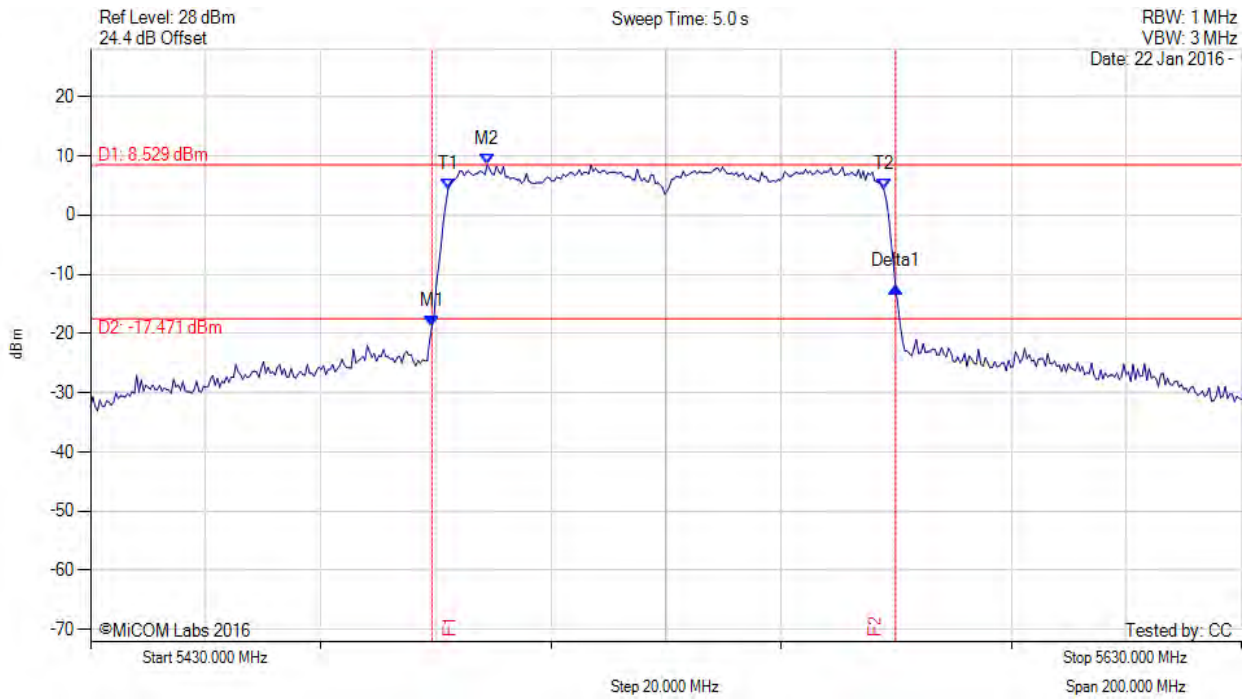
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 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 : 5489.319 MHz : -18.780 dBm M2 : 5498.938 MHz : 8.529 dBm Delta1 : 80.561 MHz : 6.675 dB T1 : 5492.124 MHz : 4.368 dBm T2 : 5567.876 MHz : 4.272 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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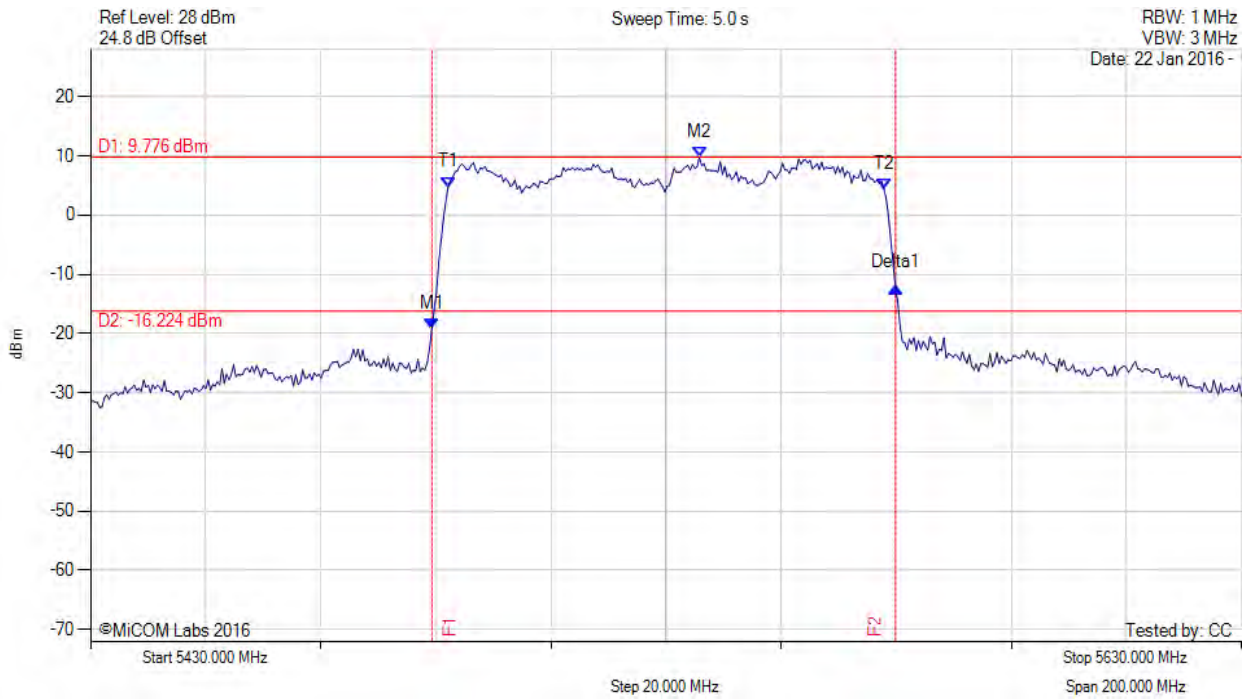
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 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 : 5489.319 MHz : -19.161 dBm M2 : 5535.812 MHz : 9.776 dBm Delta1 : 80.561 MHz : 6.858 dB T1 : 5492.124 MHz : 4.716 dBm T2 : 5567.876 MHz : 4.417 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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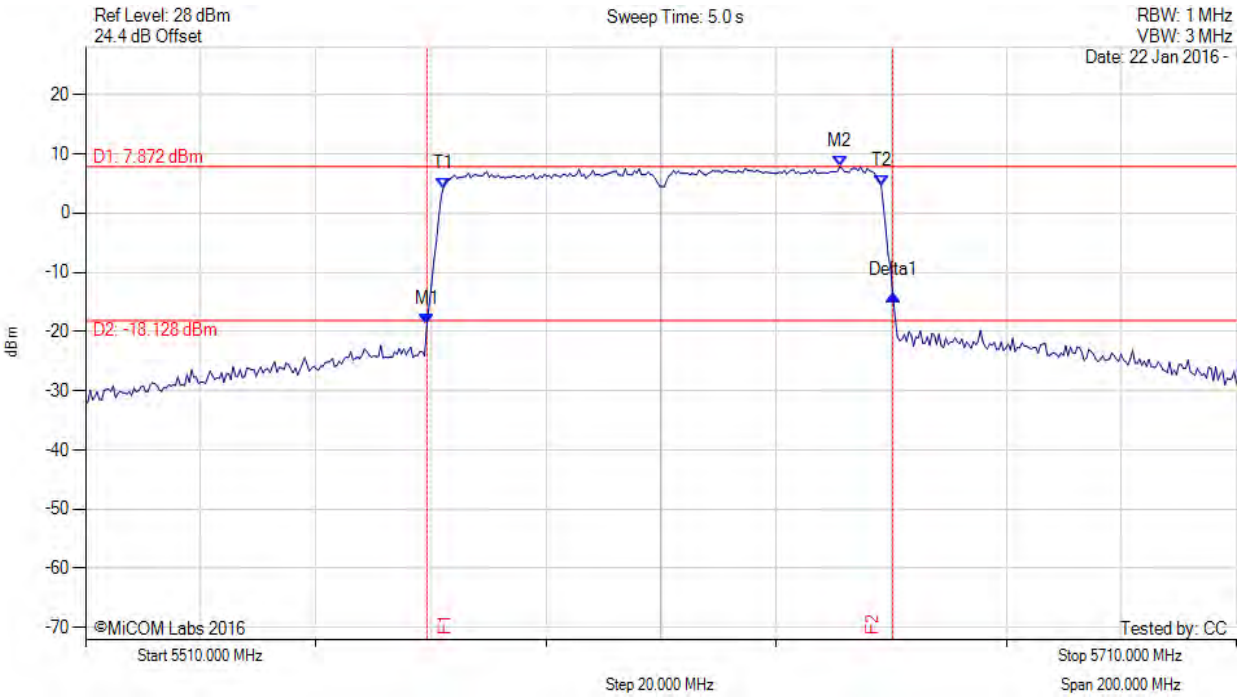
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5569.319 MHz : -18.872 dBm M2 : 5641.062 MHz : 7.872 dBm Delta1 : 80.962 MHz : 5.019 dB T1 : 5572.124 MHz : 4.148 dBm T2 : 5648.277 MHz : 4.592 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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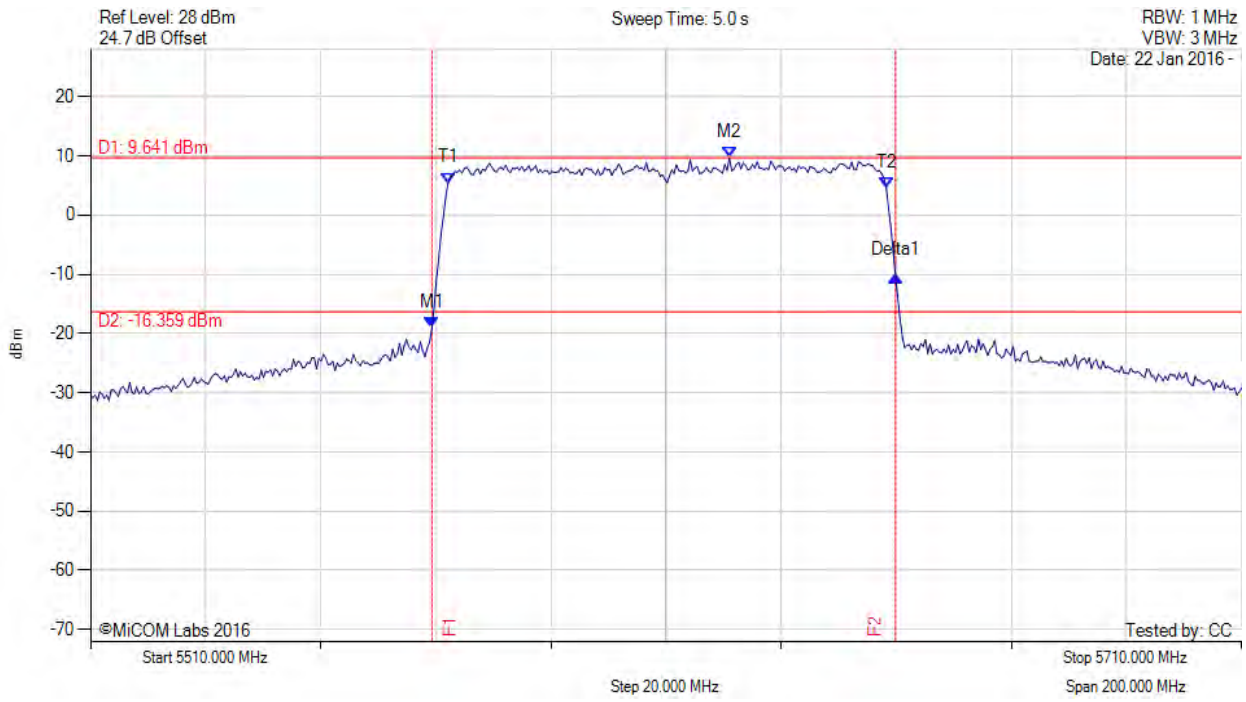
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 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 : 5569.319 MHz : -19.028 dBm M2 : 5621.022 MHz : 9.641 dBm Delta1 : 80.561 MHz : 8.782 dB T1 : 5572.124 MHz : 5.407 dBm T2 : 5648.277 MHz : 4.697 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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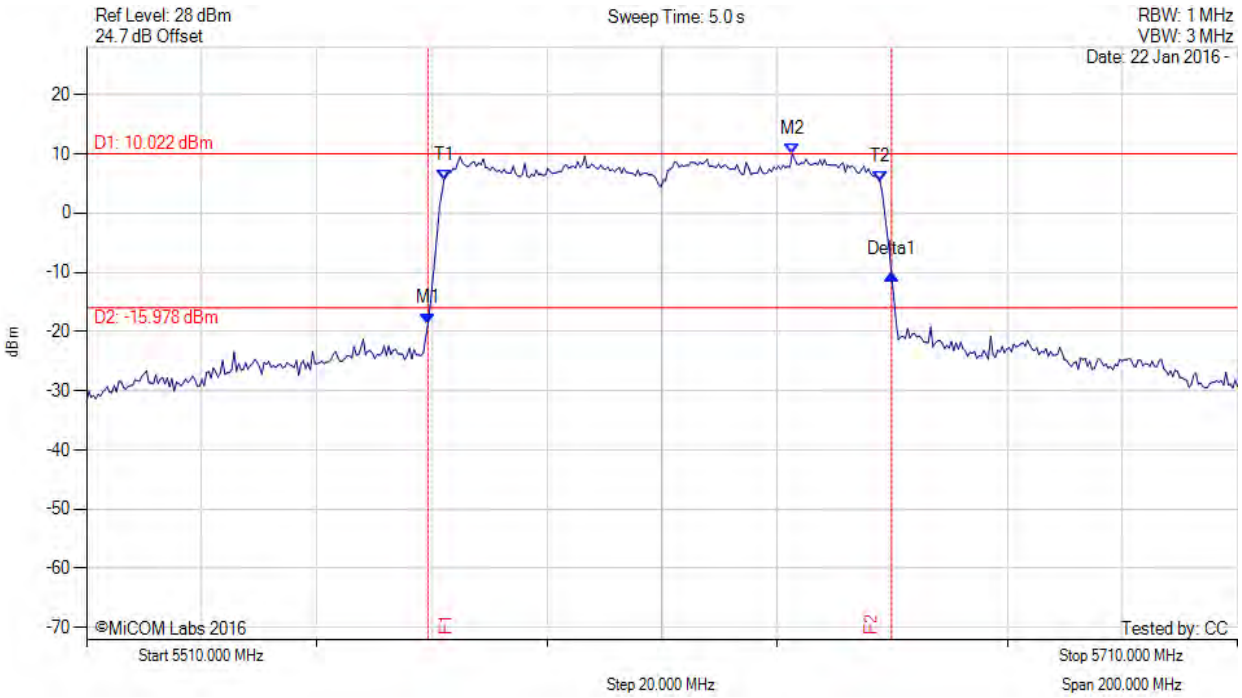
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain 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 : 5569.319 MHz : -18.648 dBm M2 : 5632.645 MHz : 10.022 dBm Delta1 : 80.561 MHz : 8.308 dB T1 : 5572.124 MHz : 5.608 dBm T2 : 5647.876 MHz : 5.364 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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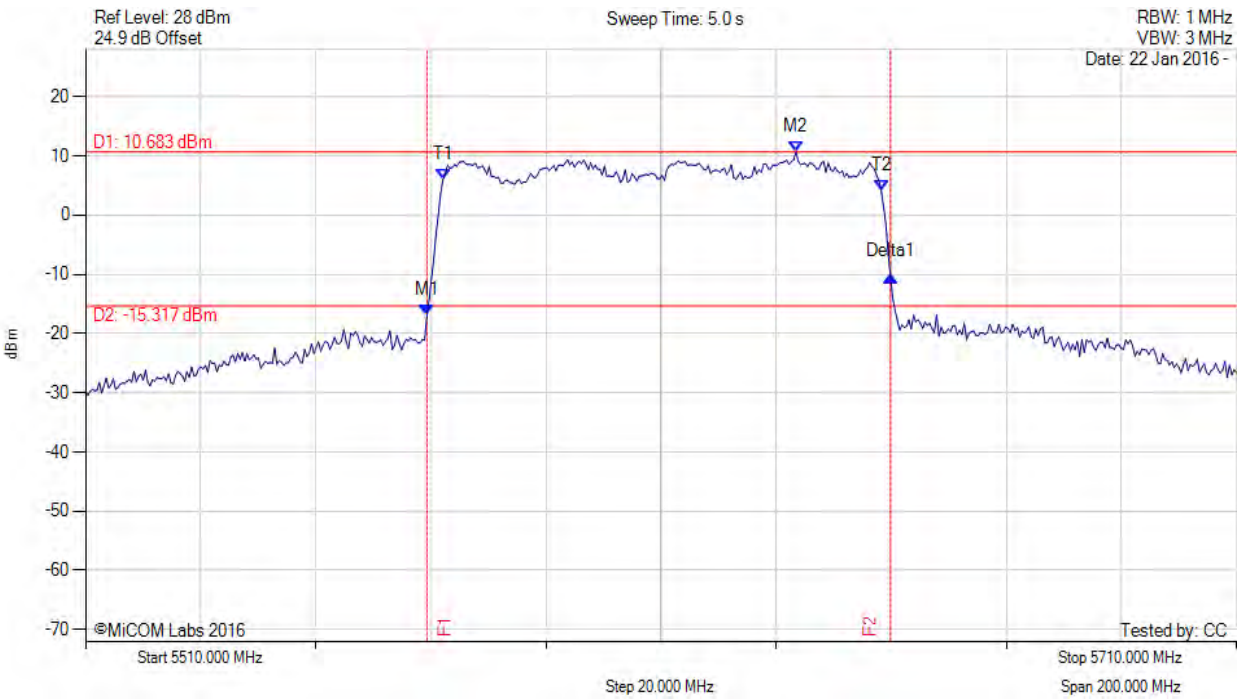
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain 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 : 5569.319 MHz : -16.921 dBm M2 : 5633.447 MHz : 10.683 dBm Delta1 : 80.561 MHz : 6.526 dB T1 : 5572.124 MHz : 6.019 dBm T2 : 5648.277 MHz : 4.126 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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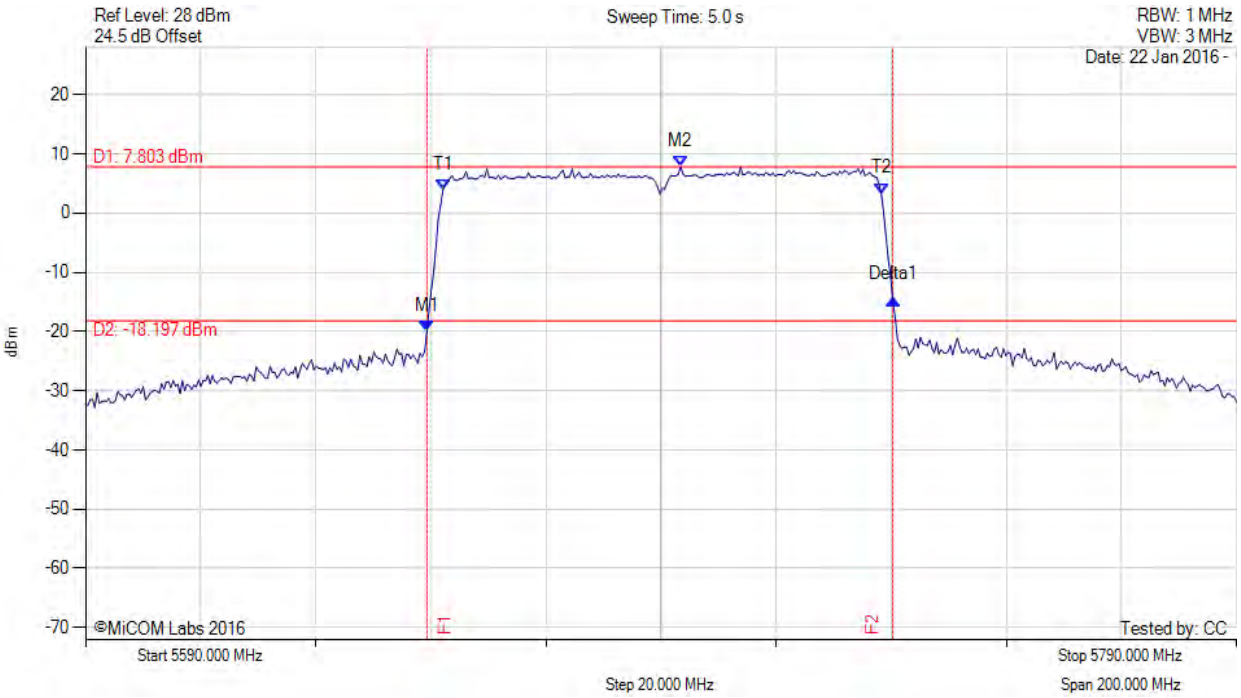
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5649.319 MHz : -19.939 dBm M2 : 5693.407 MHz : 7.803 dBm Delta1 : 80.962 MHz : 5.335 dB T1 : 5652.124 MHz : 3.896 dBm T2 : 5728.277 MHz : 3.310 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.962 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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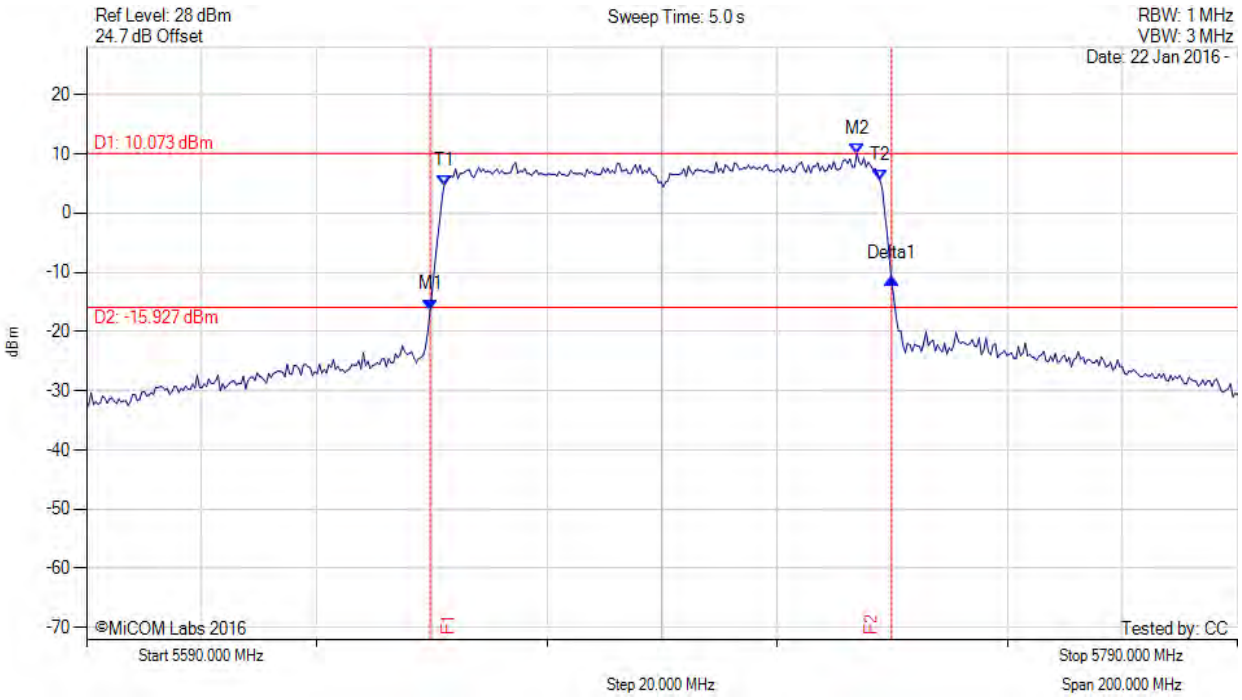
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5649.719 MHz : -16.317 dBm M2 : 5723.868 MHz : 10.073 dBm Delta1 : 80.160 MHz : 5.174 dB T1 : 5652.124 MHz : 4.665 dBm T2 : 5727.876 MHz : 5.623 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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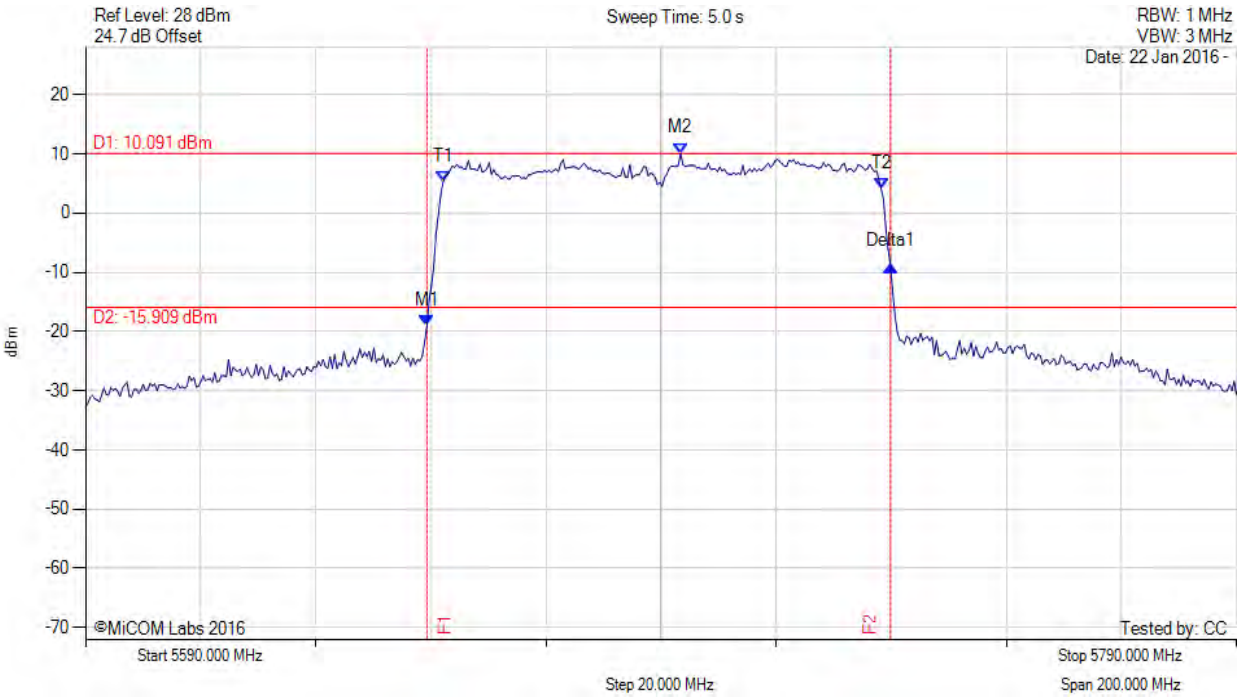
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 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 : 5649.319 MHz : -19.065 dBm M2 : 5693.407 MHz : 10.091 dBm Delta1 : 80.561 MHz : 10.122 dB T1 : 5652.124 MHz : 5.214 dBm T2 : 5728.277 MHz : 4.073 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

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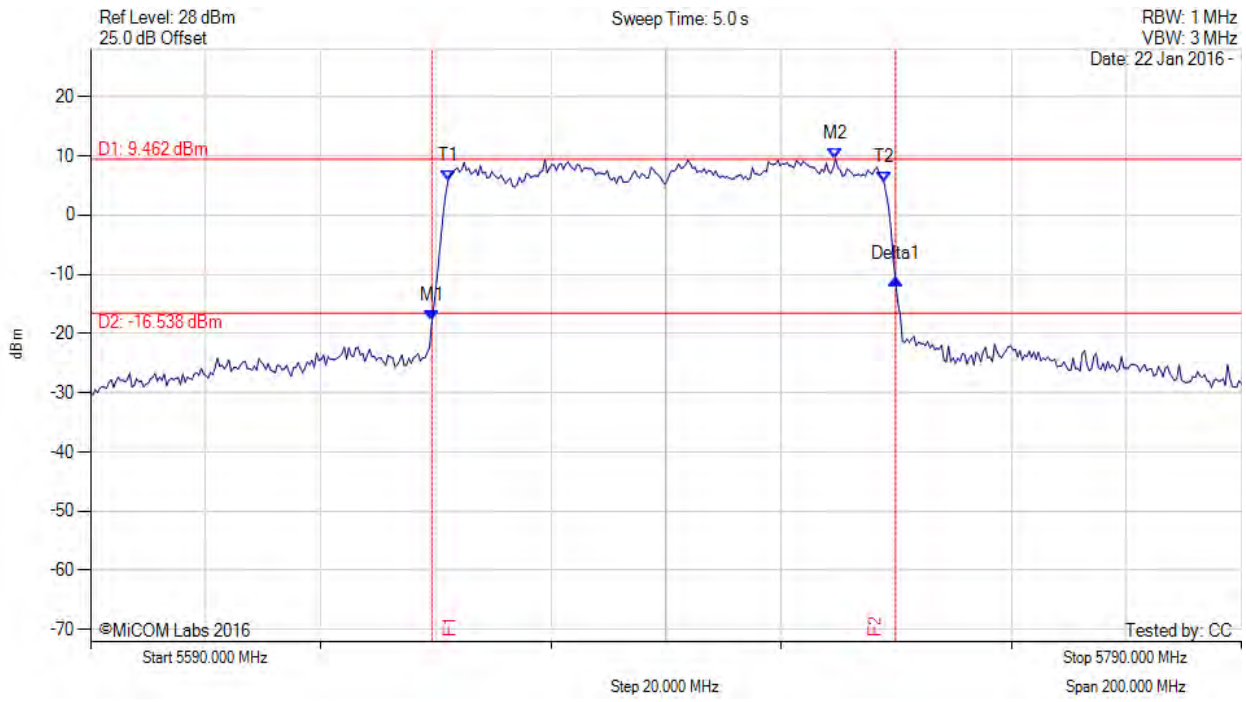
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain 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 : 5649.319 MHz : -17.916 dBm M2 : 5719.459 MHz : 9.462 dBm Delta1 : 80.561 MHz : 7.090 dB T1 : 5652.124 MHz : 5.791 dBm T2 : 5727.876 MHz : 5.562 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.561 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

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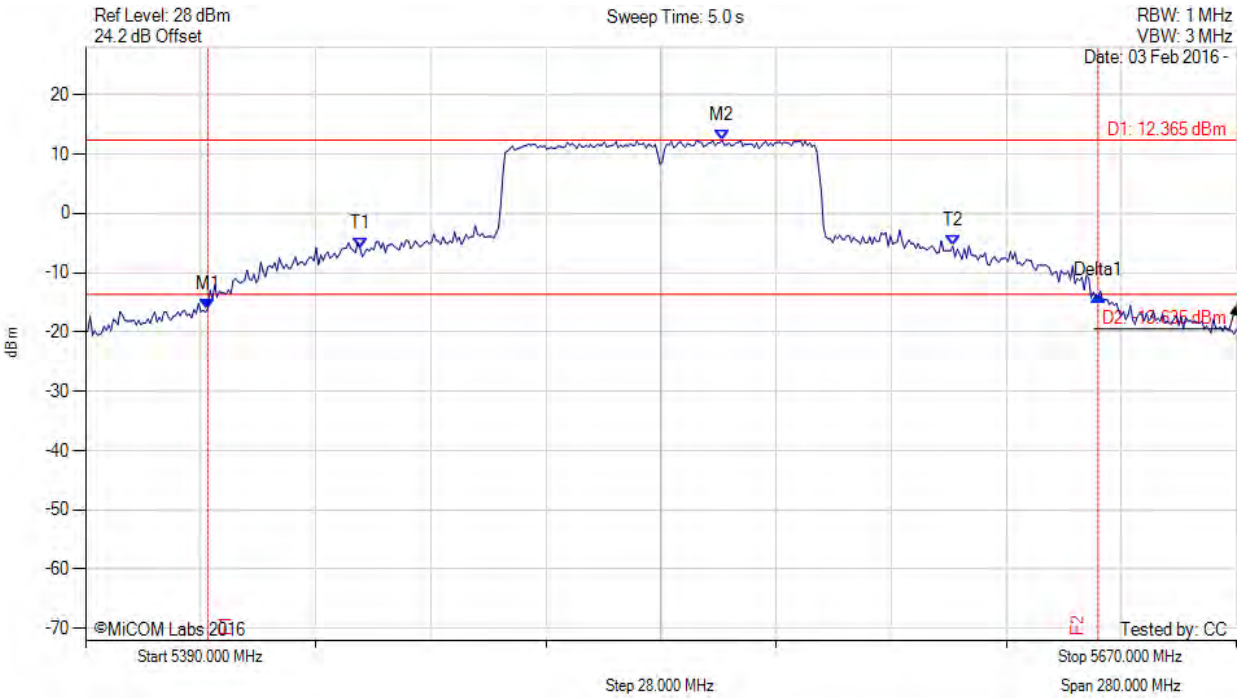
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 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 : 5419.739 MHz : -16.110 dBm M2 : 5544.870 MHz : 12.365 dBm Delta1 : 216.593 MHz : 2.166 dB T1 : 5456.774 MHz : -5.852 dBm T2 : 5600.982 MHz : -5.530 dBm OBW : 144.208 MHz	Measured 26 dB Bandwidth: 216.593 MHz Measured 99% Bandwidth: 144.208 MHz

back to matrix

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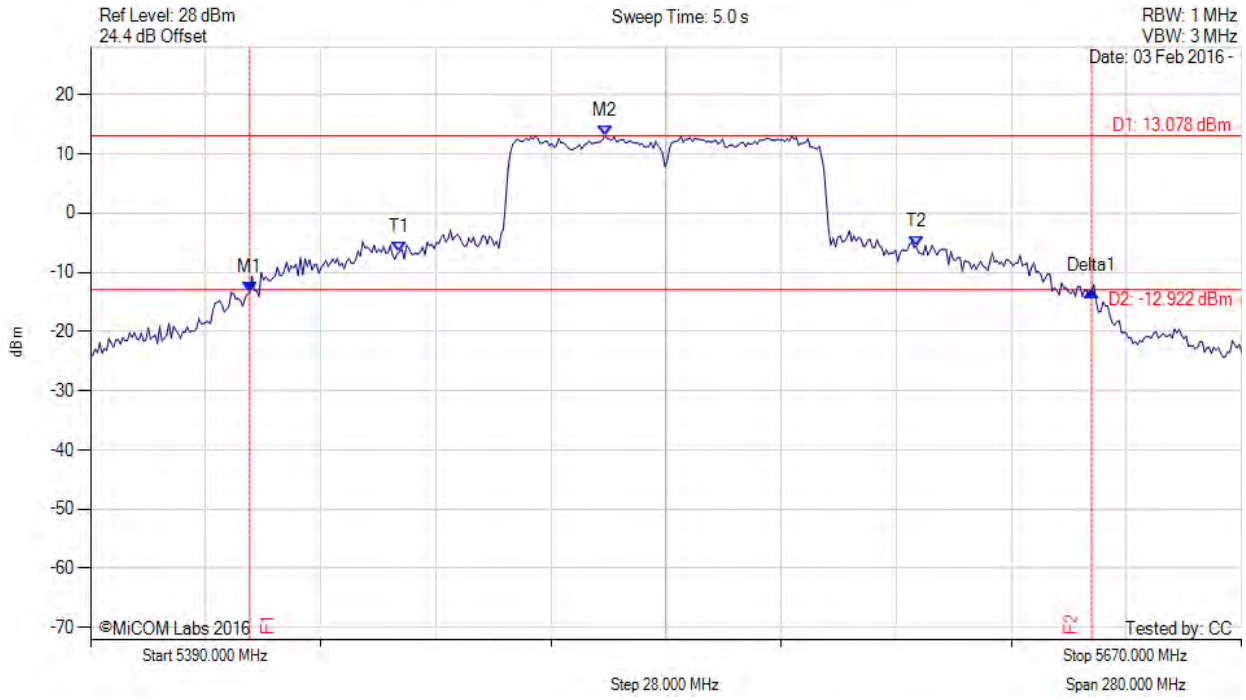
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 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 : 5428.717 MHz : -13.309 dBm M2 : 5515.130 MHz : 13.078 dBm Delta1 : 204.810 MHz : 0.130 dB T1 : 5465.190 MHz : -6.531 dBm T2 : 5590.882 MHz : -5.638 dBm OBW : 125.691 MHz	Measured 26 dB Bandwidth: 204.810 MHz Measured 99% Bandwidth: 125.691 MHz

back to matrix

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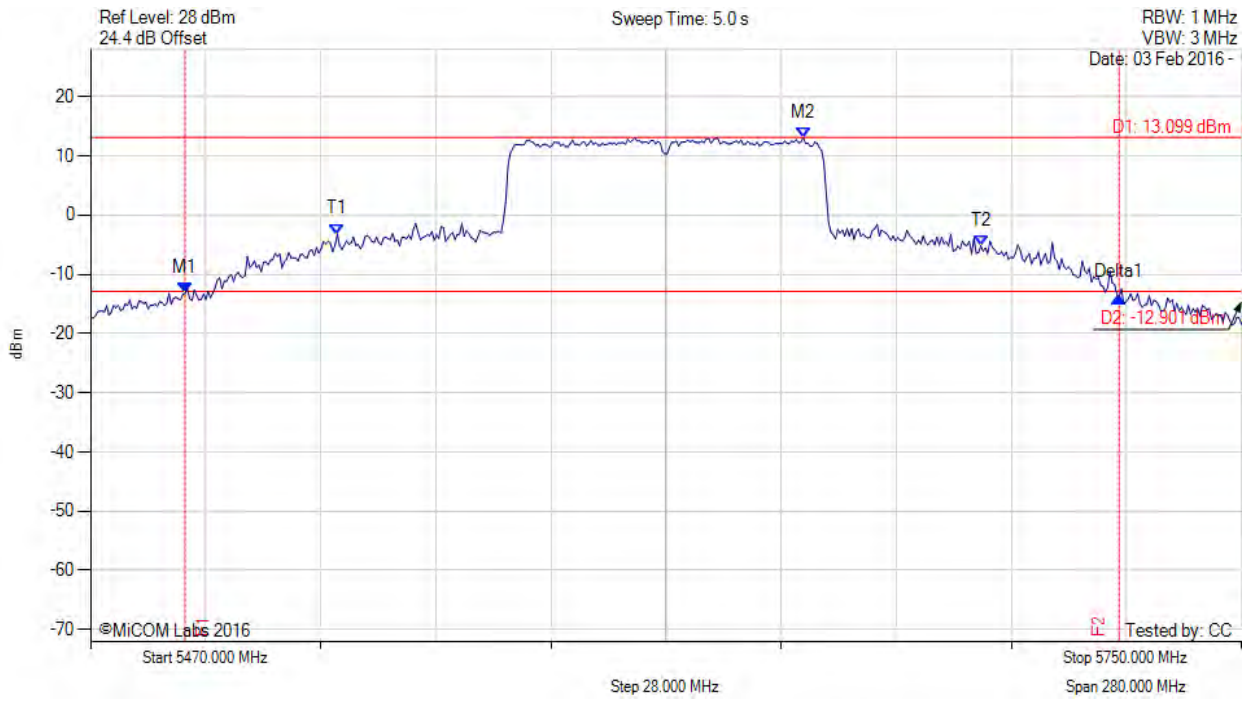
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5493.006 MHz : -13.216 dBm M2 : 5643.387 MHz : 13.099 dBm Delta1 : 227.255 MHz : -0.704 dB T1 : 5530.040 MHz : -3.236 dBm T2 : 5686.593 MHz : -5.160 dBm OBW : 156.553 MHz	Measured 26 dB Bandwidth: 227.255 MHz Measured 99% Bandwidth: 156.553 MHz

back to matrix

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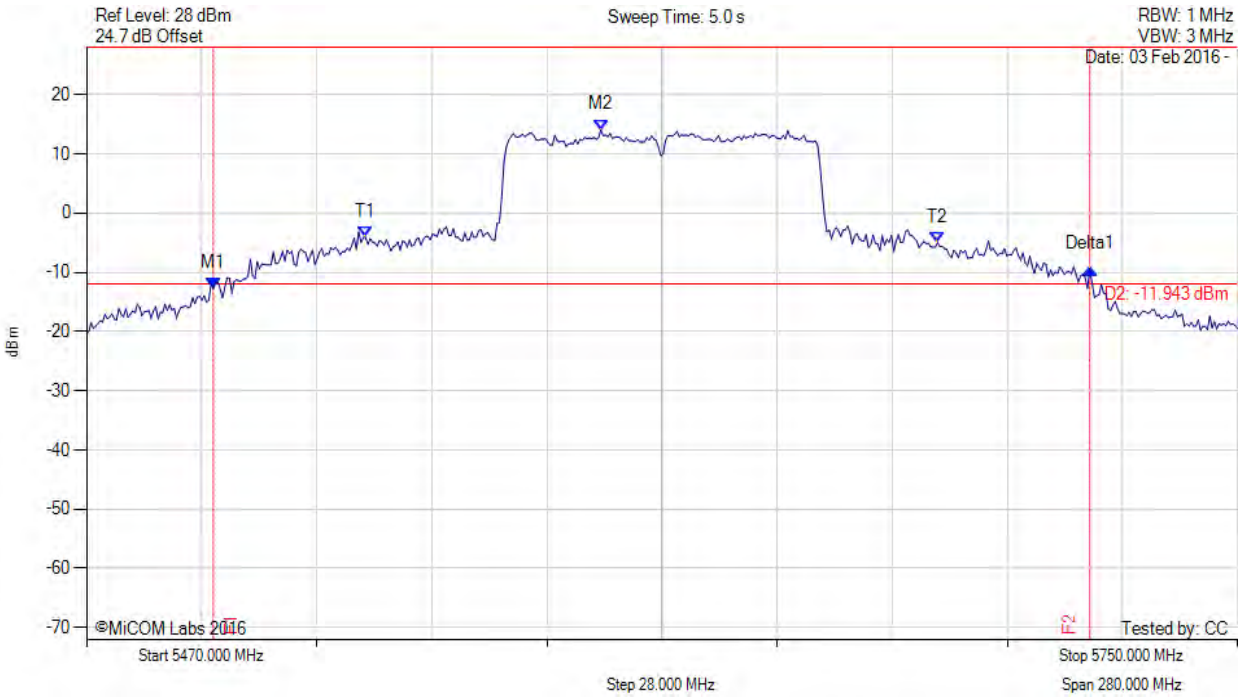
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 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 : 5500.862 MHz : -12.691 dBm M2 : 5595.130 MHz : 14.057 dBm Delta1 : 213.226 MHz : 3.278 dB T1 : 5537.896 MHz : -4.109 dBm T2 : 5677.054 MHz : -4.983 dBm OBW : 139.158 MHz	Measured 26 dB Bandwidth: 213.226 MHz Measured 99% Bandwidth: 139.158 MHz

back to matrix

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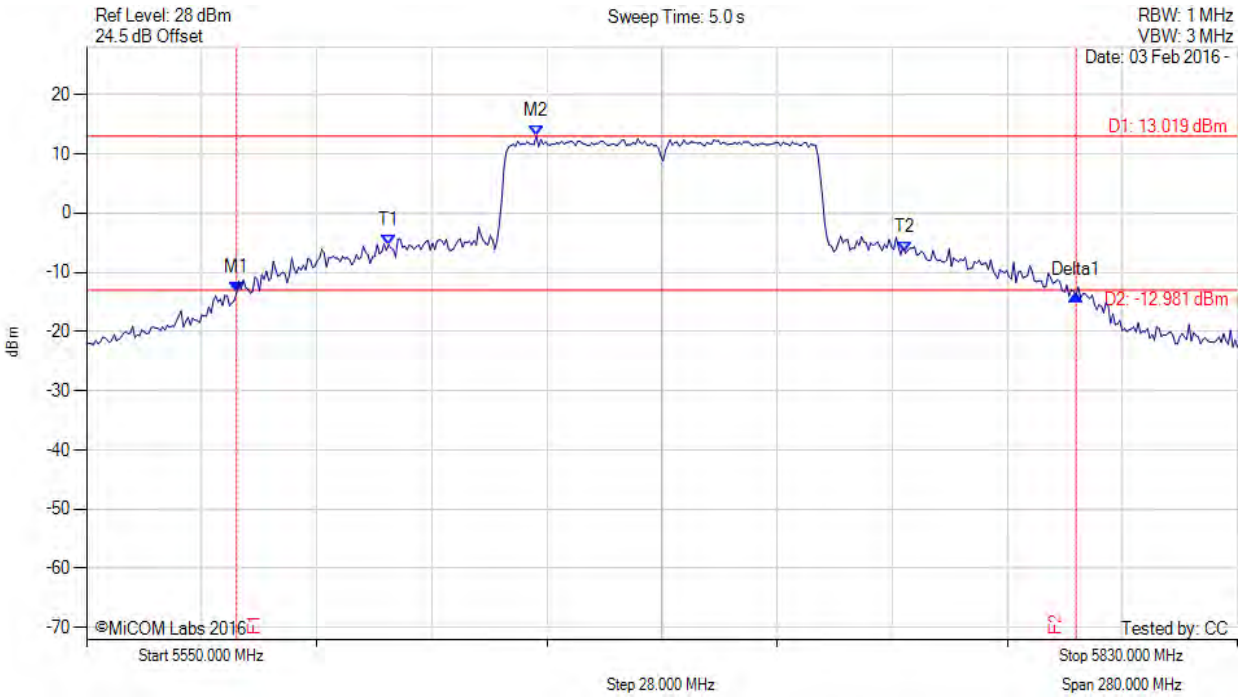
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5586.473 MHz : -13.480 dBm M2 : 5659.419 MHz : 13.019 dBm Delta1 : 204.248 MHz : -0.395 dB T1 : 5623.507 MHz : -5.364 dBm T2 : 5749.198 MHz : -6.714 dBm OBW : 125.691 MHz	Measured 26 dB Bandwidth: 204.248 MHz Measured 99% Bandwidth: 125.691 MHz

back to matrix

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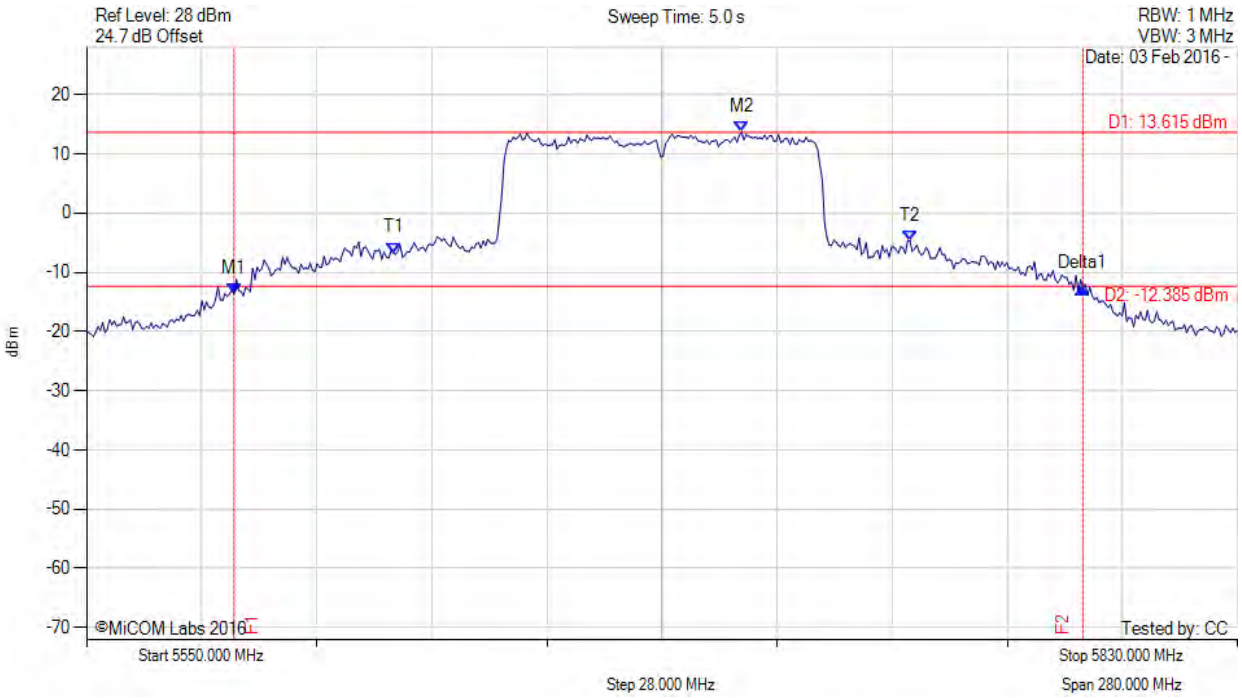
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 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 : 5585.912 MHz : -13.574 dBm M2 : 5709.359 MHz : 13.615 dBm Delta1 : 206.493 MHz : 0.927 dB T1 : 5624.629 MHz : -6.730 dBm T2 : 5750.321 MHz : -4.705 dBm OBW : 125.691 MHz	Measured 26 dB Bandwidth: 206.493 MHz Measured 99% Bandwidth: 125.691 MHz

back to matrix

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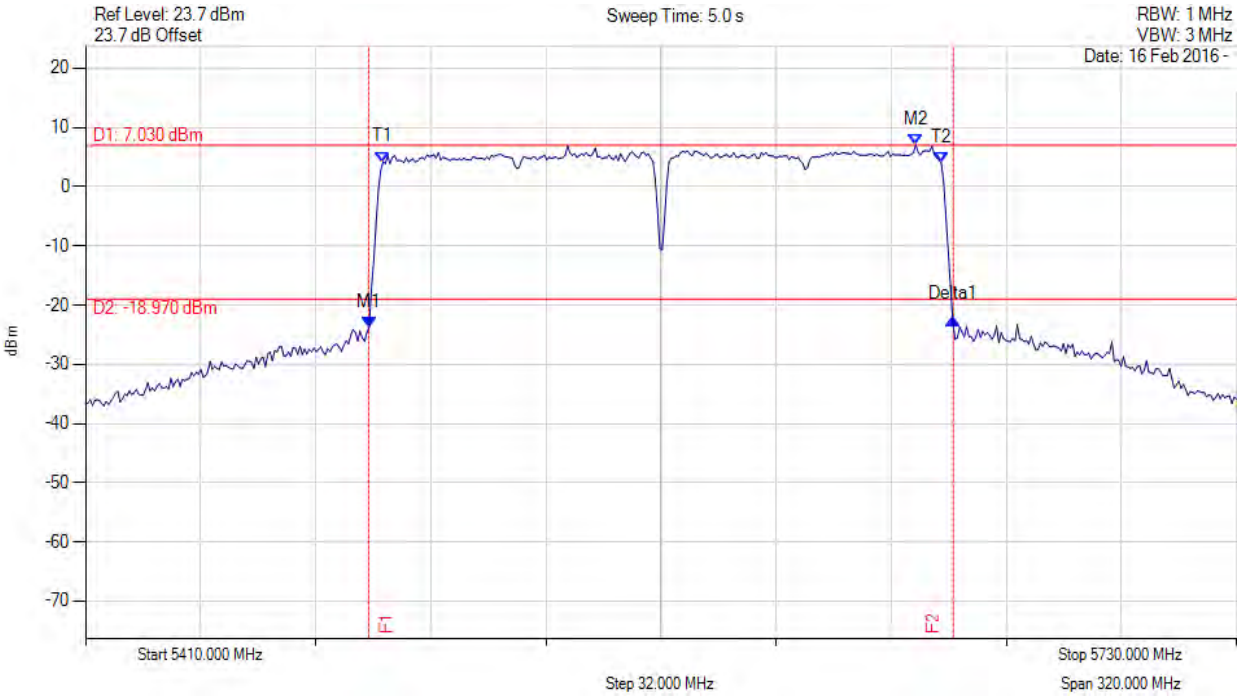
26 dB & 99% BANDWIDTH

Variant: 802.11ac-160, Channel: 5570.00 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 : 5488.878 MHz : -23.674 dBm M2 : 5640.862 MHz : 7.031 dBm Delta1 : 162.325 MHz : 1.253 dB T1 : 5492.725 MHz : 4.166 dBm T2 : 5647.916 MHz : 4.038 dBm OBW : 155.190 MHz	Channel Frequency: 5570.00 MHz

back to matrix

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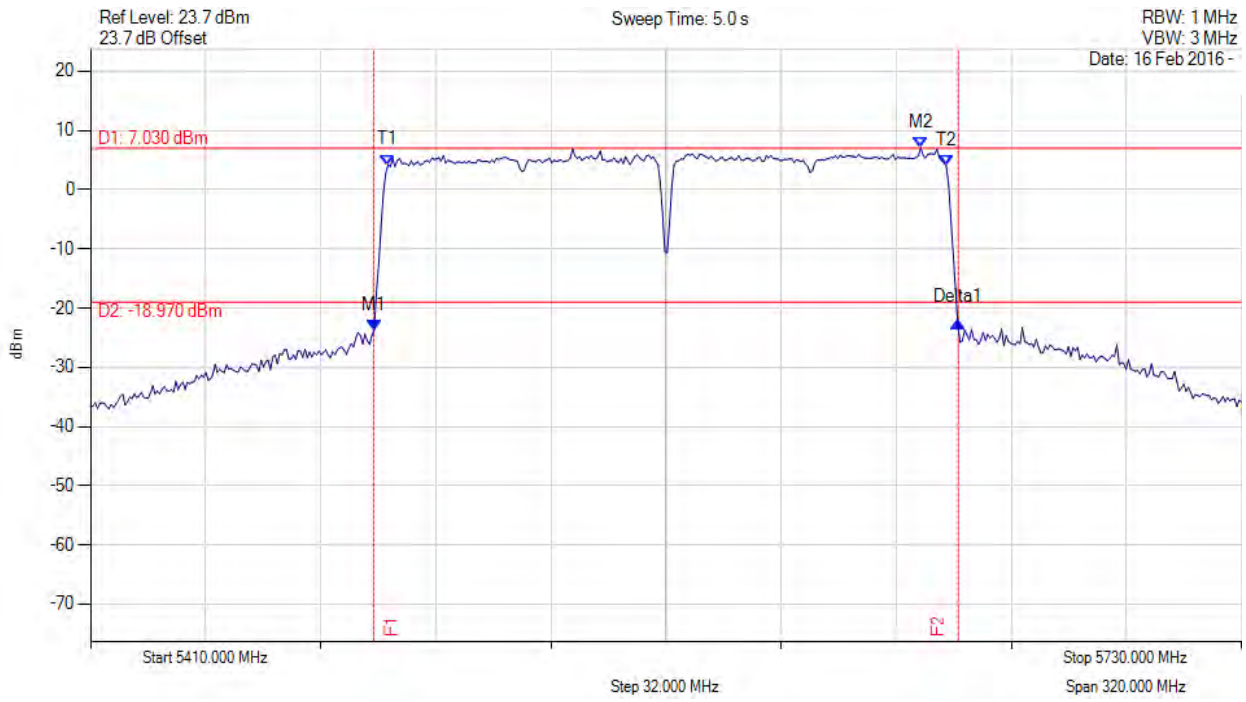
26 dB & 99% BANDWIDTH

Variant: 802.11ac-160, Channel: 5570.00 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 : 5488.878 MHz : -23.674 dBm M2 : 5640.862 MHz : 7.031 dBm Delta1 : 162.325 MHz : 1.253 dB T1 : 5492.725 MHz : 4.166 dBm T2 : 5647.916 MHz : 4.038 dBm OBW : 155.190 MHz	Channel Frequency: 5570.00 MHz

back to matrix

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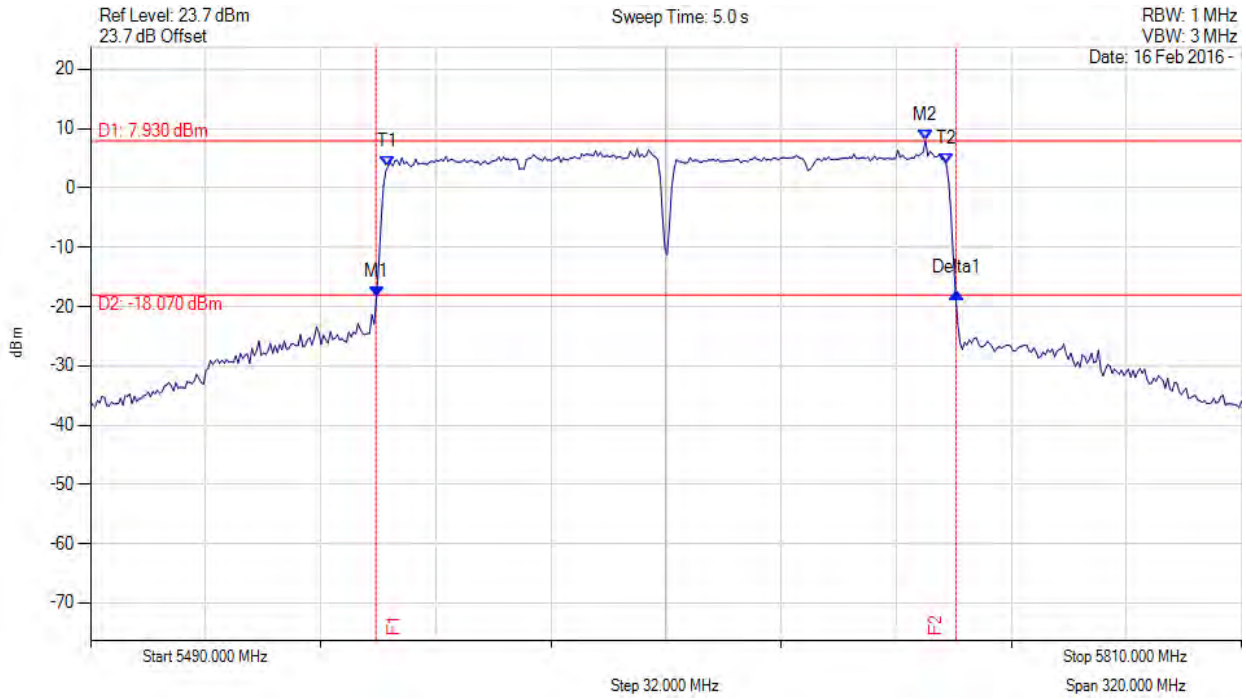
26 dB & 99% BANDWIDTH

Variant: 802.11ac-160, Channel: 5650.00 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 : 5569.519 MHz : -18.419 dBm M2 : 5722.144 MHz : 7.926 dBm Delta1 : 161.202 MHz : 0.720 dB T1 : 5572.725 MHz : 3.609 dBm T2 : 5727.916 MHz : 4.070 dBm OBW : 155.190 MHz	Channel Frequency: 5650.00 MHz

back to matrix

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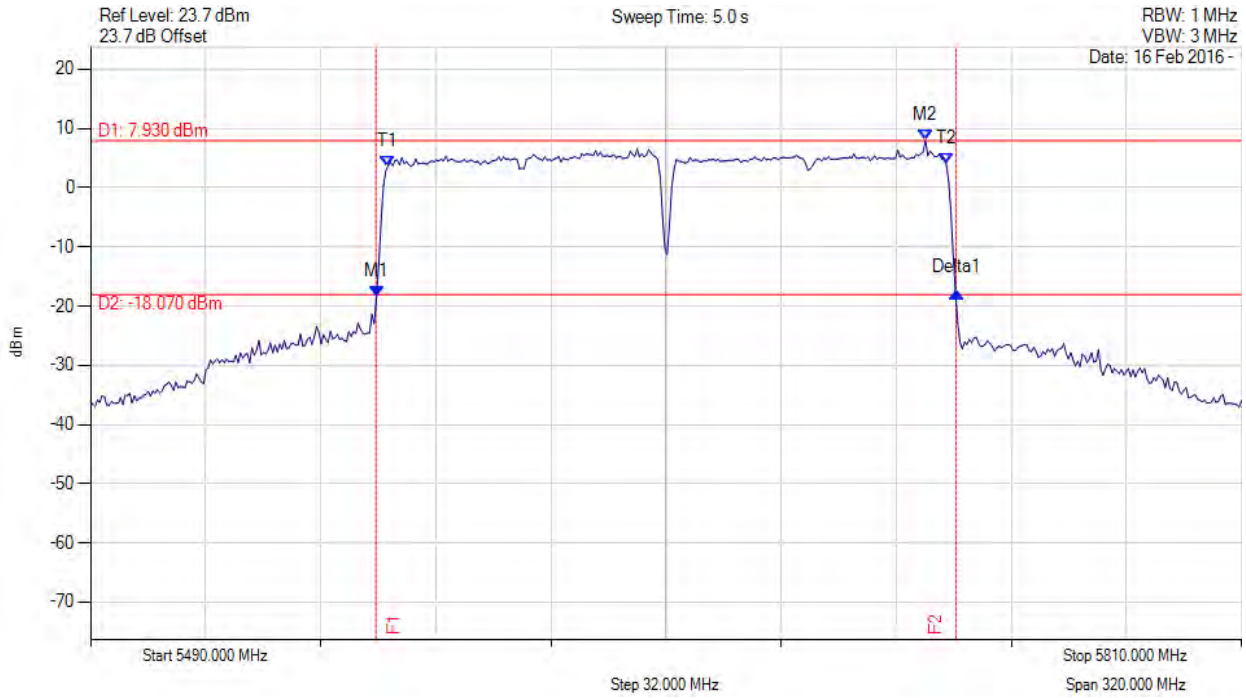
26 dB & 99% BANDWIDTH

Variant: 802.11ac-160, Channel: 5650.00 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 : 5569.519 MHz : -18.419 dBm M2 : 5722.144 MHz : 7.926 dBm Delta1 : 161.202 MHz : 0.720 dB T1 : 5572.725 MHz : 3.609 dBm T2 : 5727.916 MHz : 4.070 dBm OBW : 155.190 MHz	Channel Frequency: 5650.00 MHz

back to matrix

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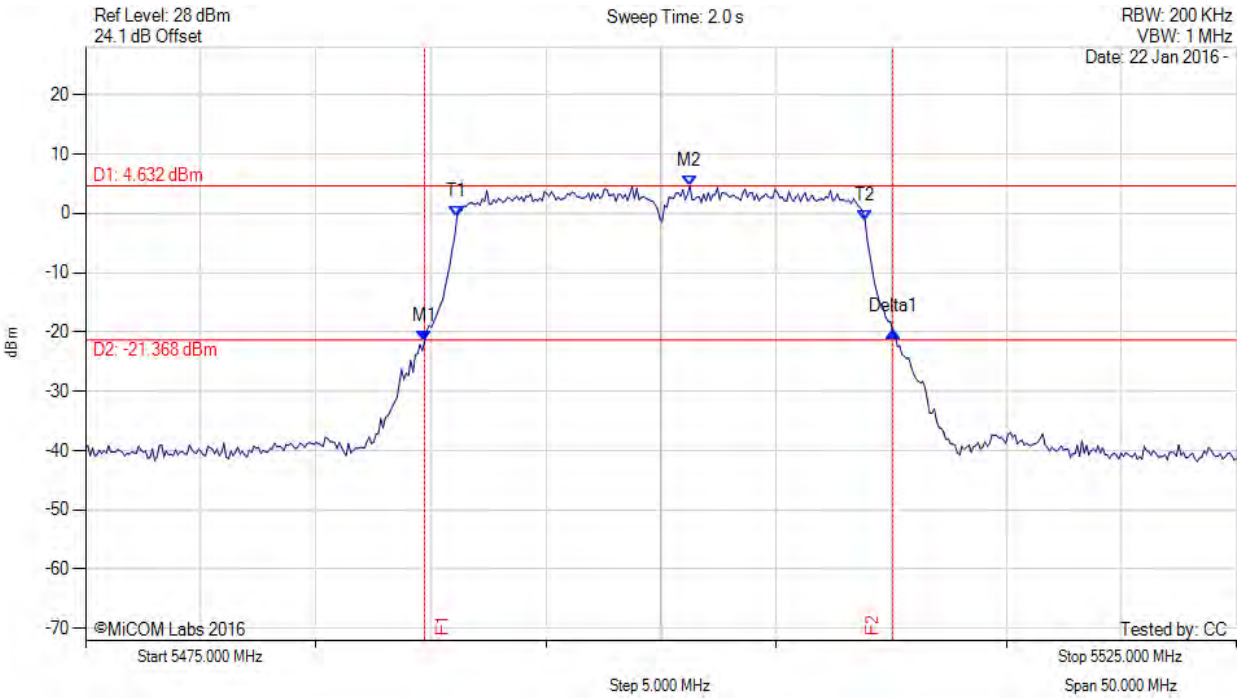
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 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 : 5489.729 MHz : -21.581 dBm M2 : 5501.253 MHz : 4.632 dBm Delta1 : 20.341 MHz : 1.664 dB T1 : 5491.132 MHz : -0.574 dBm T2 : 5508.868 MHz : -1.282 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.341 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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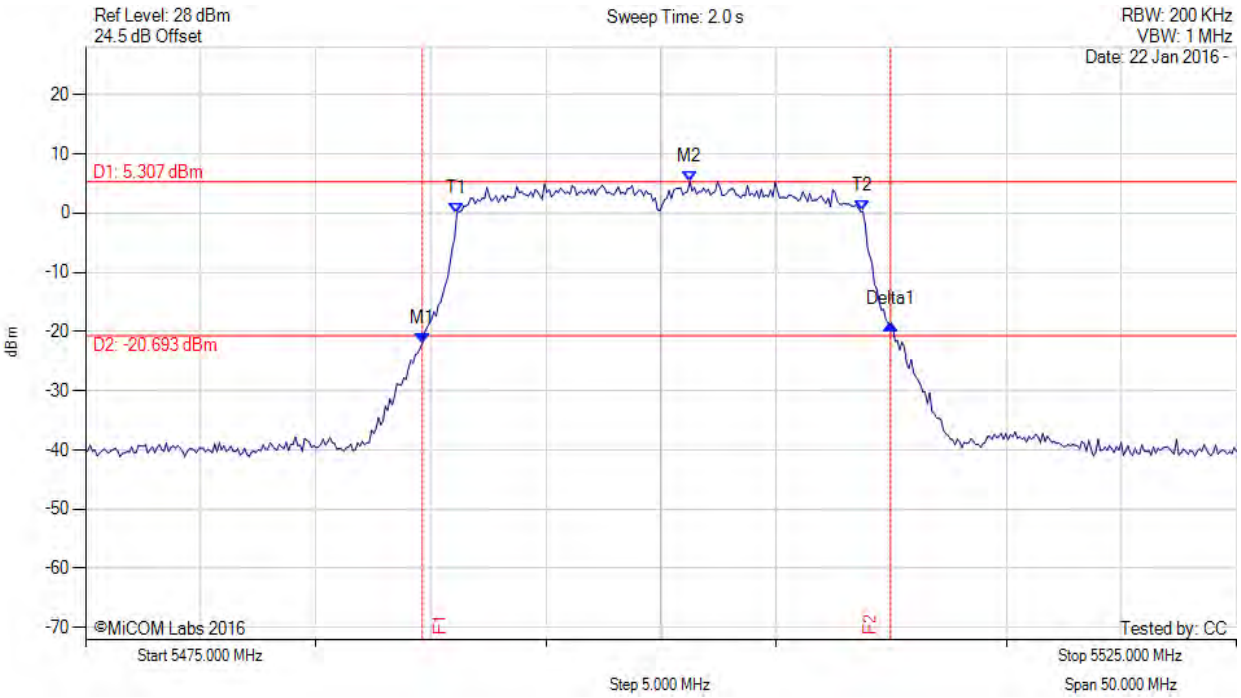
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 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 : 5489.629 MHz : -21.945 dBm M2 : 5501.253 MHz : 5.307 dBm Delta1 : 20.341 MHz : 3.211 dB T1 : 5491.132 MHz : 0.014 dBm T2 : 5508.768 MHz : 0.296 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.341 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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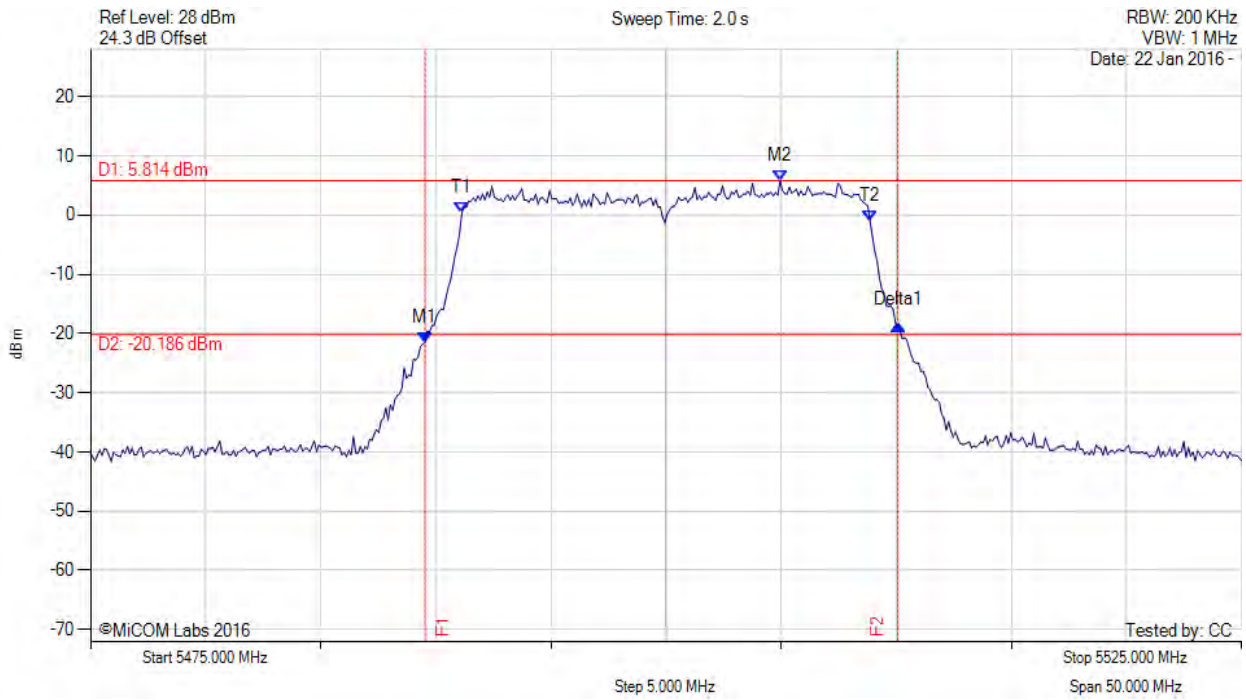
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 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 : 5489.529 MHz : -21.516 dBm M2 : 5504.960 MHz : 5.814 dBm Delta1 : 20.541 MHz : 3.071 dB T1 : 5491.132 MHz : 0.408 dBm T2 : 5508.868 MHz : -1.087 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.541 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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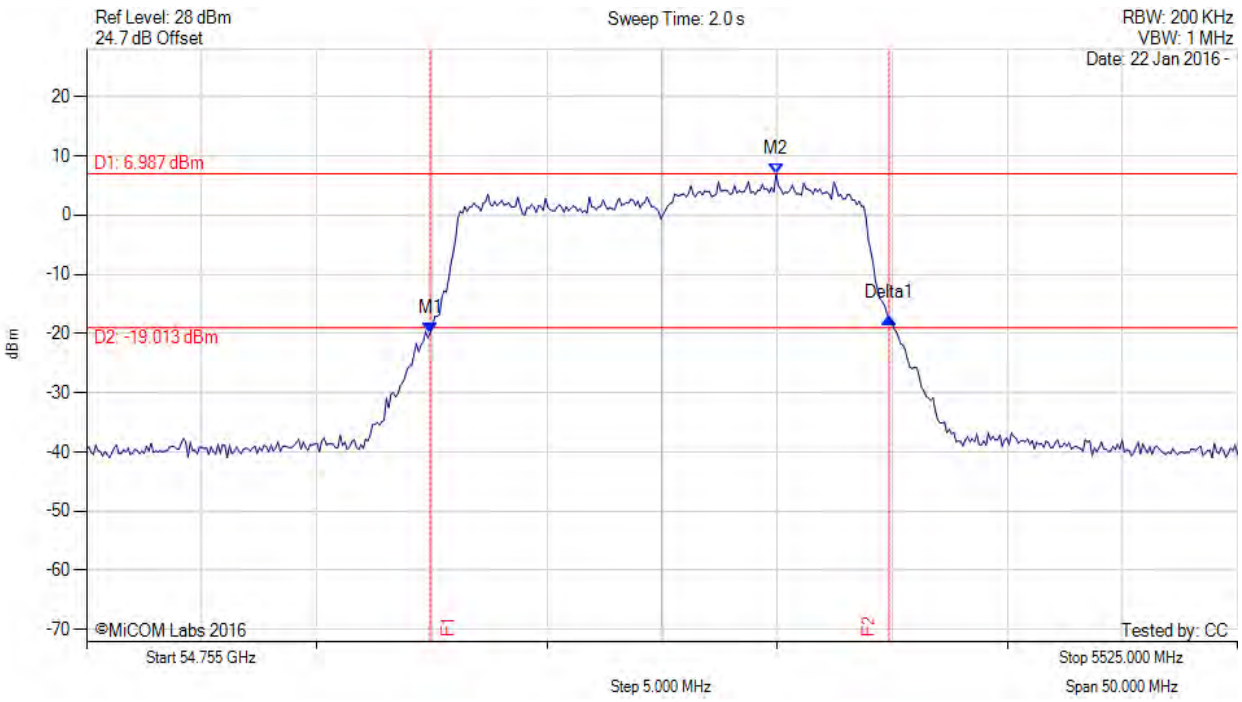
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



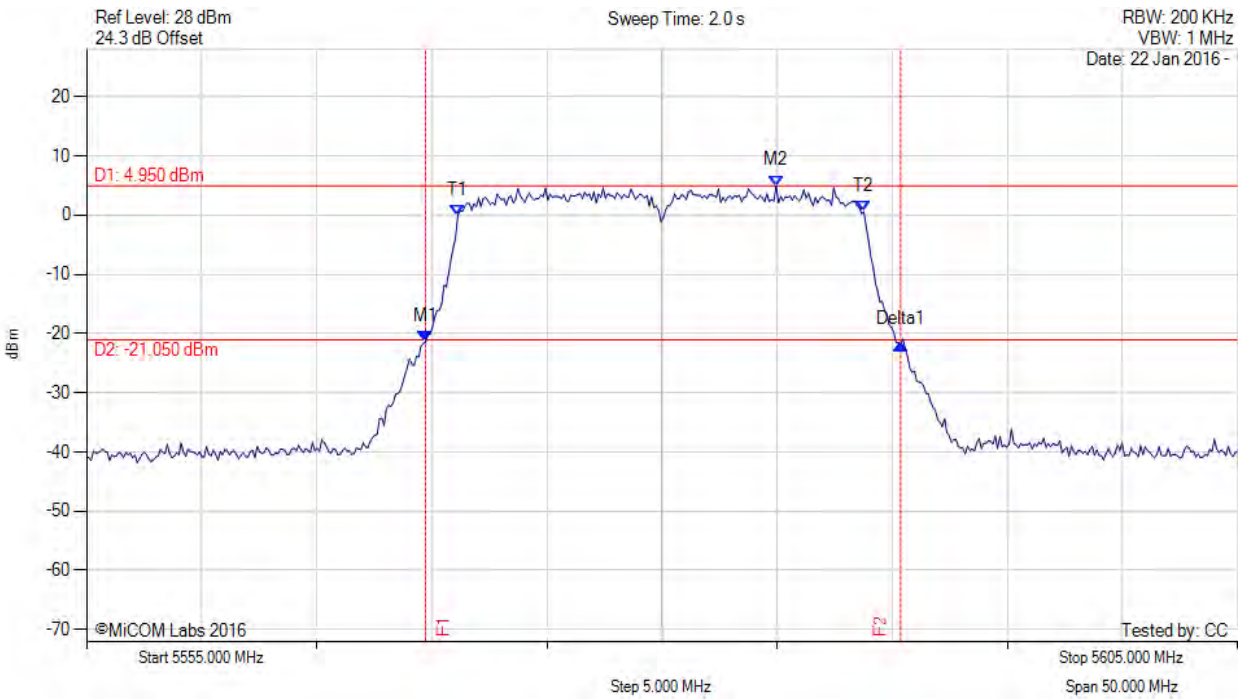
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5489.930 MHz : -19.935 dBm M2 : 5504.960 MHz : 6.987 dBm Delta1 : 19.940 MHz : 2.563 dB T1 : 0 Hz : 500.000 dBm T2 : 0 Hz : 500.000 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 17.735 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: 5580.00 MHz, Chain a, Temp: Ambient, Voltage: 55 Vdc



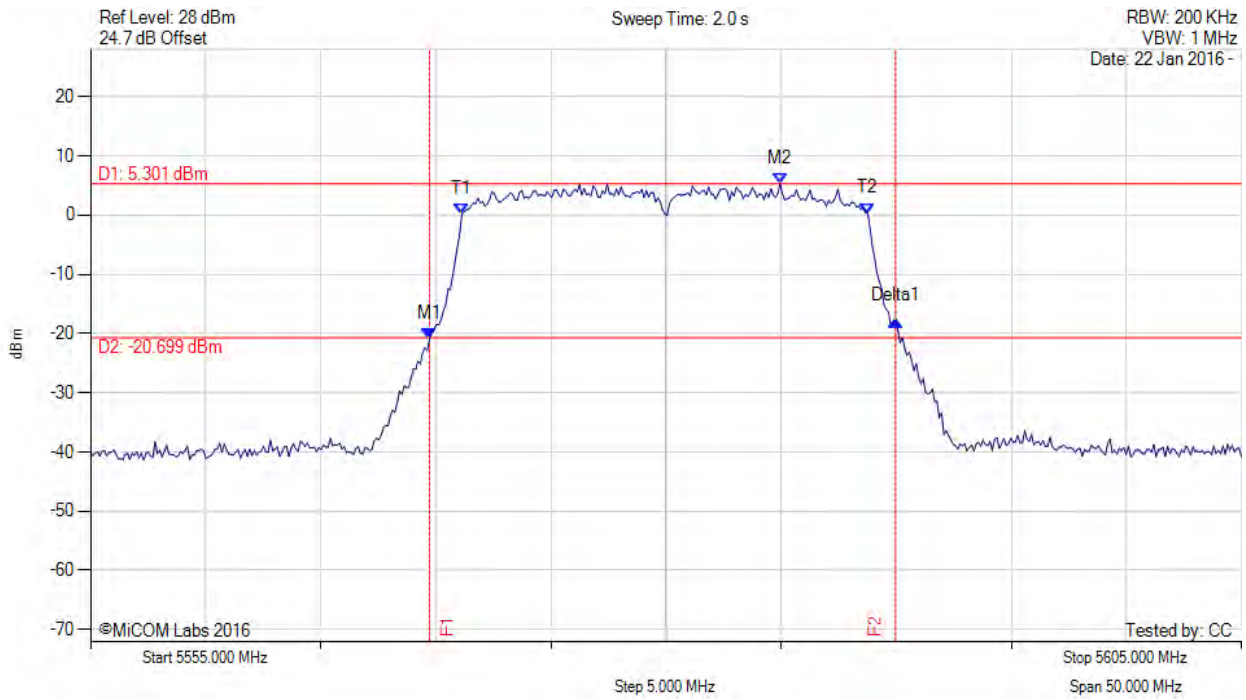
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5569.729 MHz : -21.440 dBm M2 : 5584.960 MHz : 4.950 dBm Delta1 : 20.641 MHz : -0.283 dB T1 : 5571.132 MHz : -0.009 dBm T2 : 5588.768 MHz : 0.544 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.641 MHz Measured 99% Bandwidth: 17.635 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: 5580.00 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 : 5569.729 MHz : -20.960 dBm M2 : 5584.960 MHz : 5.301 dBm Delta1 : 20.240 MHz : 3.032 dB T1 : 5571.132 MHz : 0.174 dBm T2 : 5588.768 MHz : 0.266 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.240 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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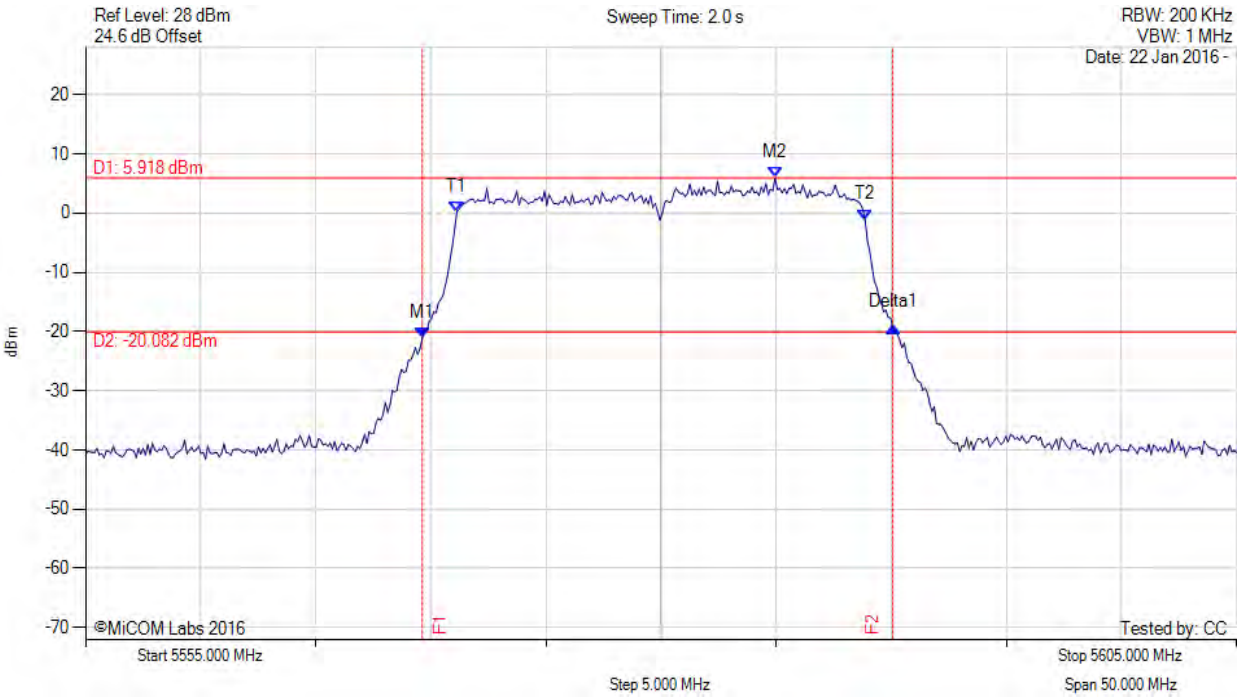
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 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 : 5569.629 MHz : -21.066 dBm M2 : 5584.960 MHz : 5.918 dBm Delta1 : 20.441 MHz : 1.751 dB T1 : 5571.132 MHz : 0.239 dBm T2 : 5588.868 MHz : -1.127 dBm OBW : 17.735 MHz	Measured 26 dB Bandwidth: 20.441 MHz Measured 99% Bandwidth: 17.735 MHz

back to matrix

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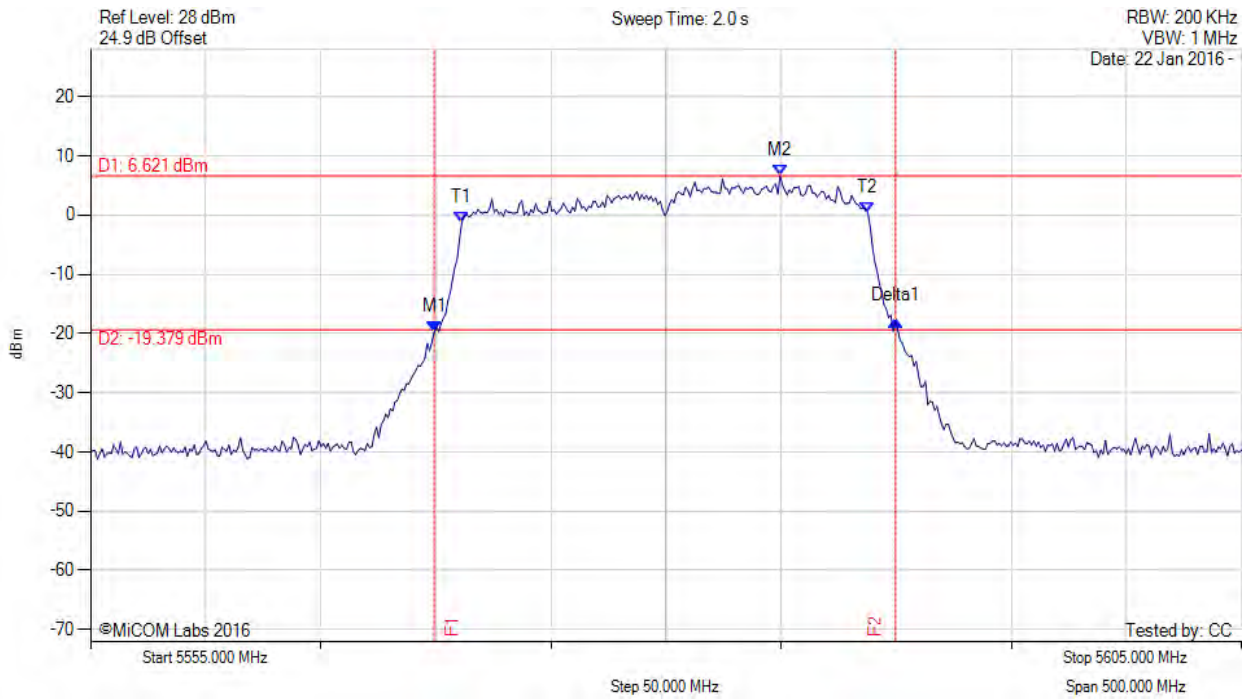
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 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 : 5569.930 MHz : -19.799 dBm M2 : 5584.960 MHz : 6.621 dBm Delta1 : 20.040 MHz : 1.914 dB T1 : 5571.132 MHz : -1.160 dBm T2 : 5588.768 MHz : 0.402 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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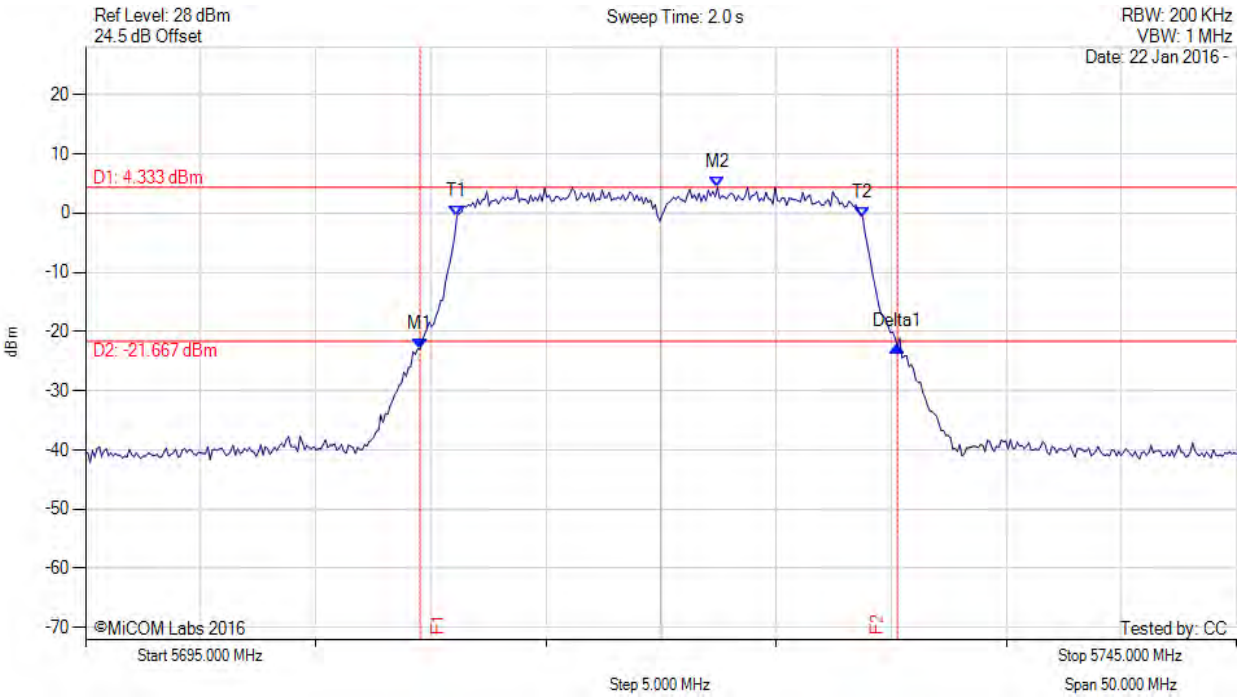
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 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 : 5709.529 MHz : -22.933 dBm M2 : 5722.455 MHz : 4.333 dBm Delta1 : 20.741 MHz : 0.348 dB T1 : 5711.132 MHz : -0.556 dBm T2 : 5728.768 MHz : -0.761 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.741 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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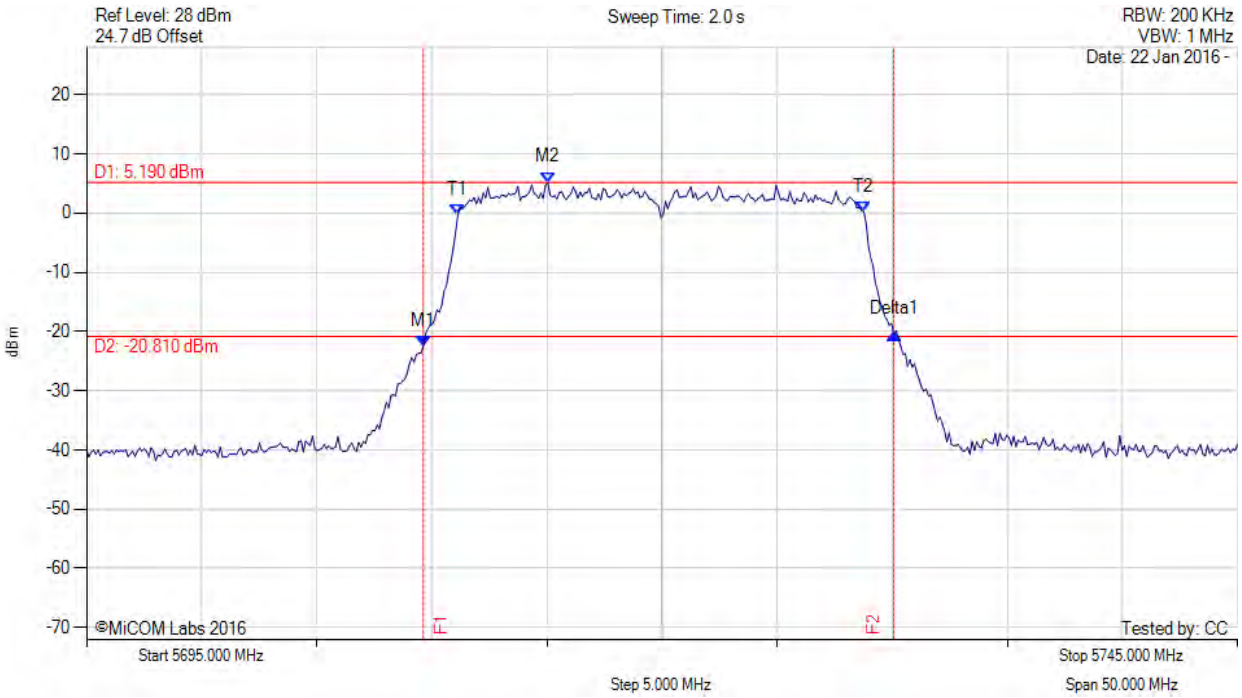
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 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 : 5709.629 MHz : -22.447 dBm M2 : 5715.040 MHz : 5.190 dBm Delta1 : 20.441 MHz : 2.026 dB T1 : 5711.132 MHz : -0.226 dBm T2 : 5728.768 MHz : 0.207 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.441 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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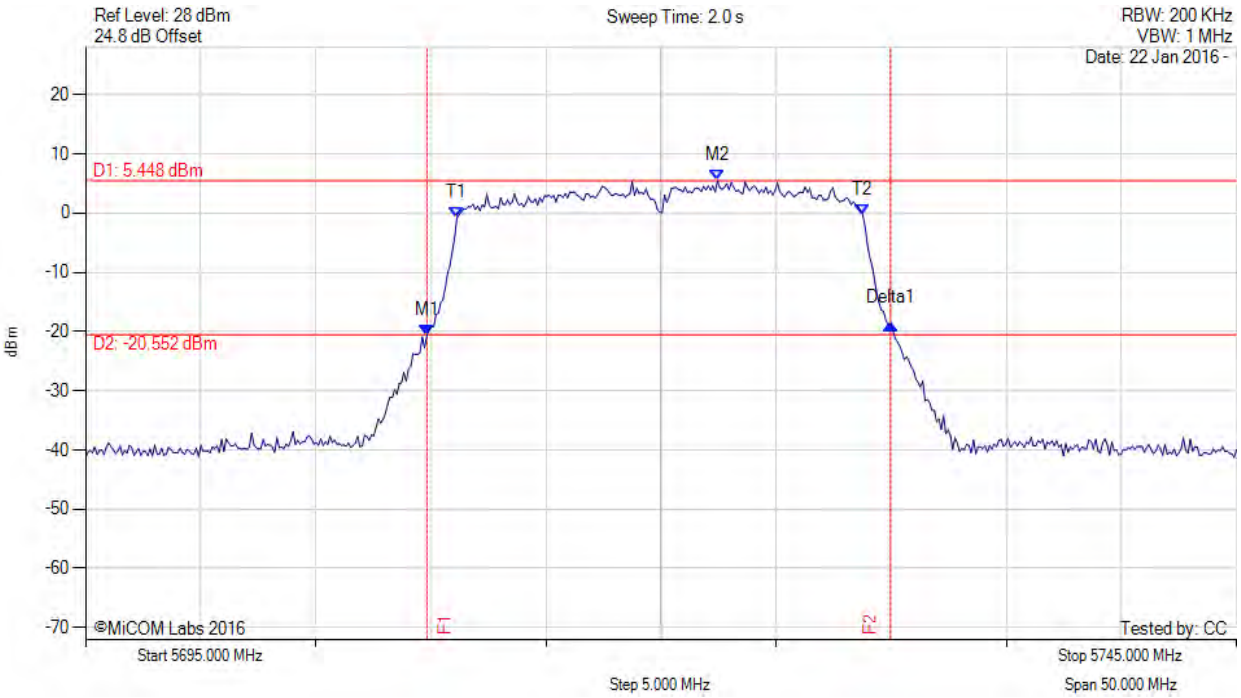
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 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 : 5709.830 MHz : -20.617 dBm M2 : 5722.455 MHz : 5.448 dBm Delta1 : 20.140 MHz : 1.977 dB T1 : 5711.132 MHz : -0.775 dBm T2 : 5728.768 MHz : -0.310 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 20.140 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

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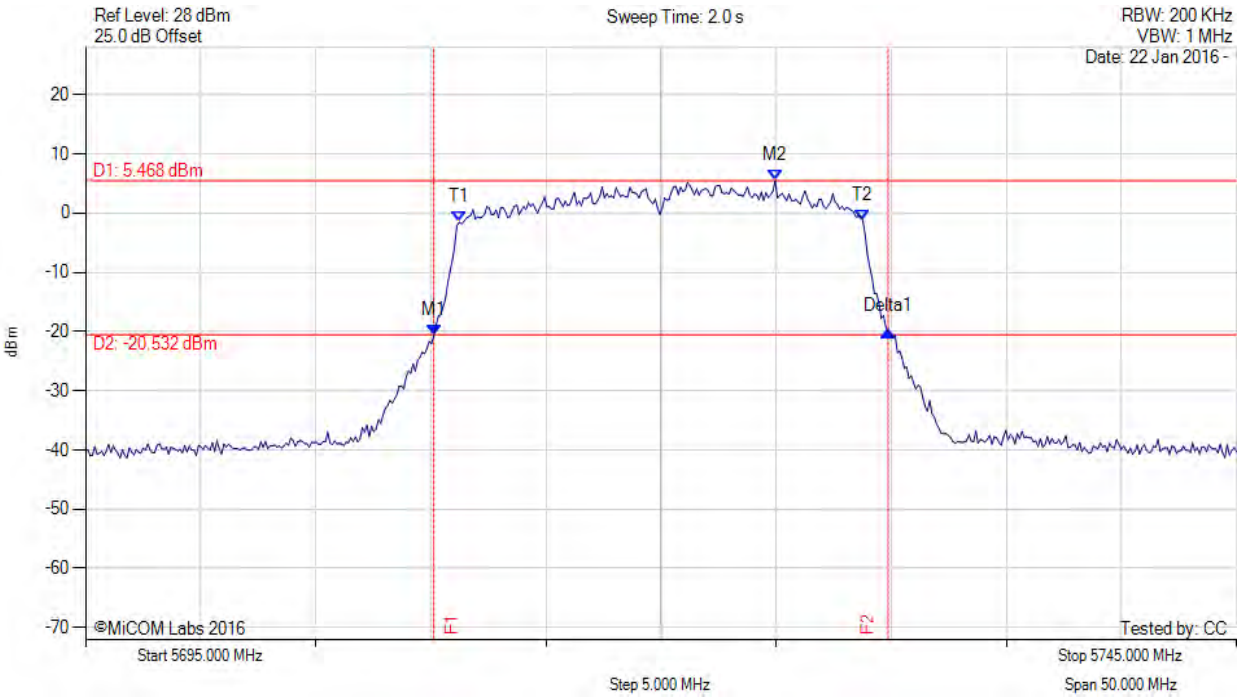
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 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 : 5710.130 MHz : -20.704 dBm M2 : 5724.960 MHz : 5.468 dBm Delta1 : 19.739 MHz : 0.700 dB T1 : 5711.232 MHz : -1.550 dBm T2 : 5728.768 MHz : -1.259 dBm OBW : 17.535 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 17.535 MHz

back to matrix

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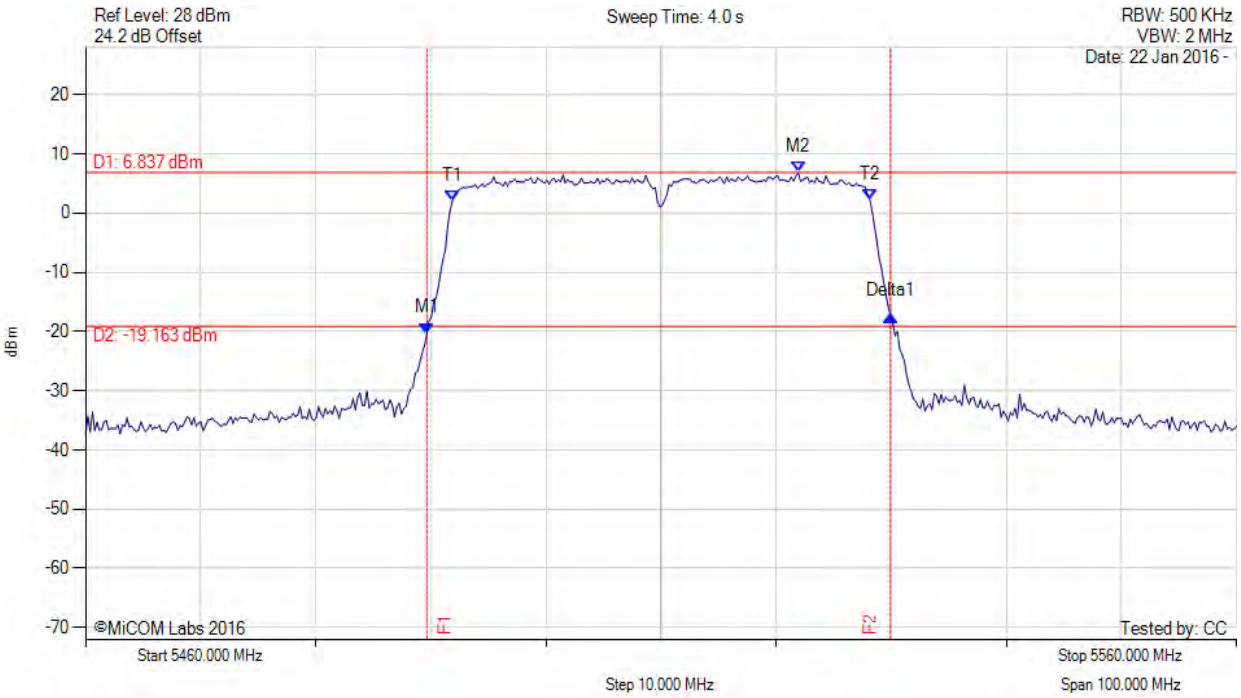
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 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 : 5489.659 MHz : -20.297 dBm M2 : 5521.924 MHz : 6.837 dBm Delta1 : 40.281 MHz : 2.945 dB T1 : 5491.864 MHz : 1.988 dBm T2 : 5528.136 MHz : 2.326 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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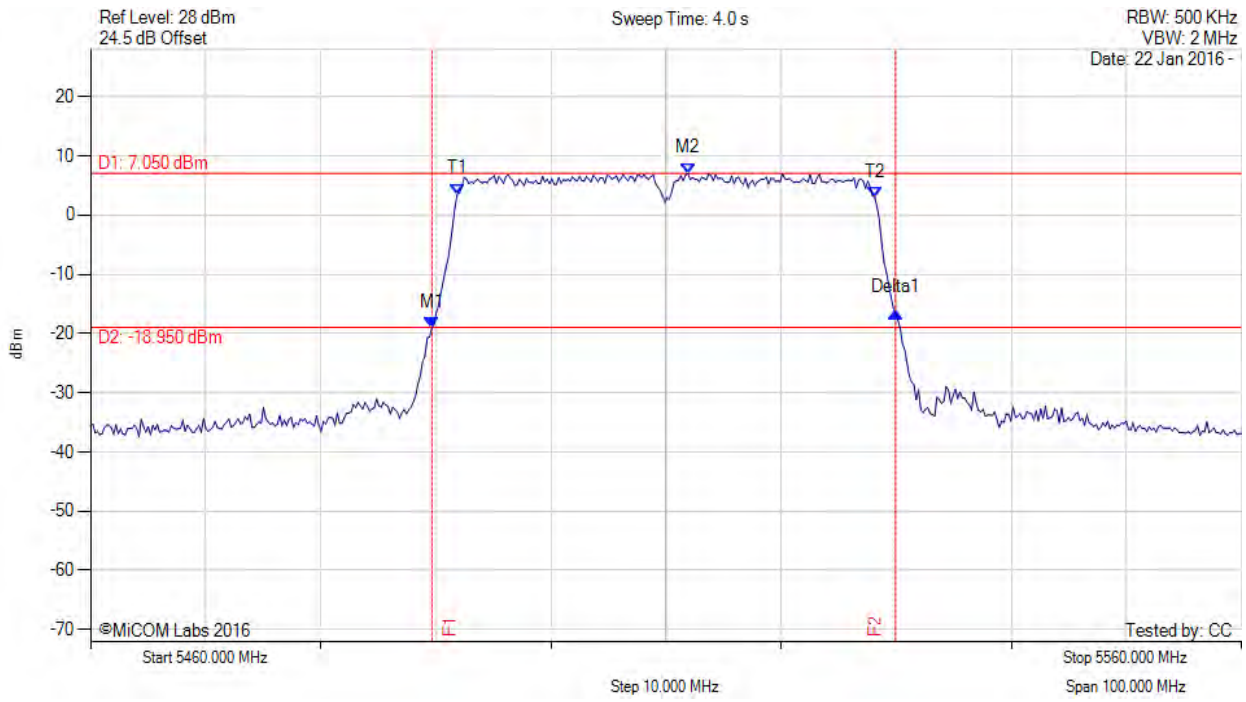
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 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 : 5489.659 MHz : -19.028 dBm M2 : 5511.904 MHz : 7.050 dBm Delta1 : 40.281 MHz : 2.532 dB T1 : 5491.864 MHz : 3.544 dBm T2 : 5528.136 MHz : 3.036 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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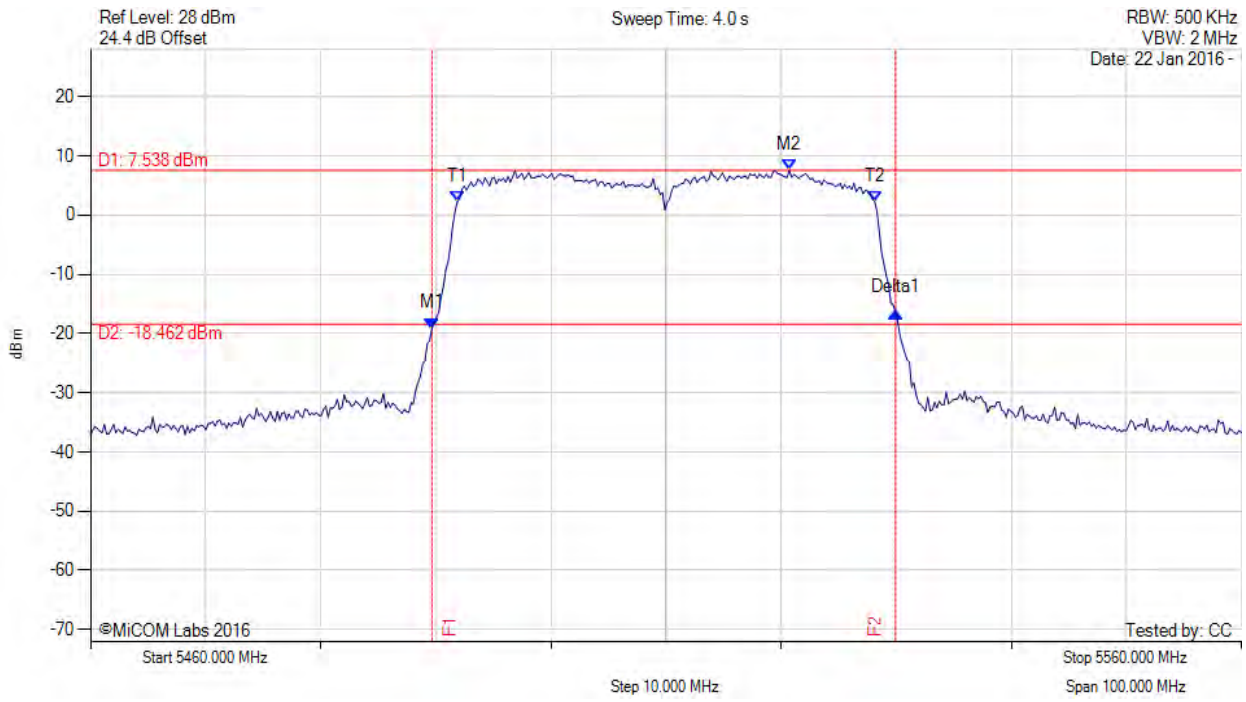
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 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 : 5489.659 MHz : -19.124 dBm M2 : 5520.721 MHz : 7.538 dBm Delta1 : 40.281 MHz : 2.699 dB T1 : 5491.864 MHz : 2.275 dBm T2 : 5528.136 MHz : 2.241 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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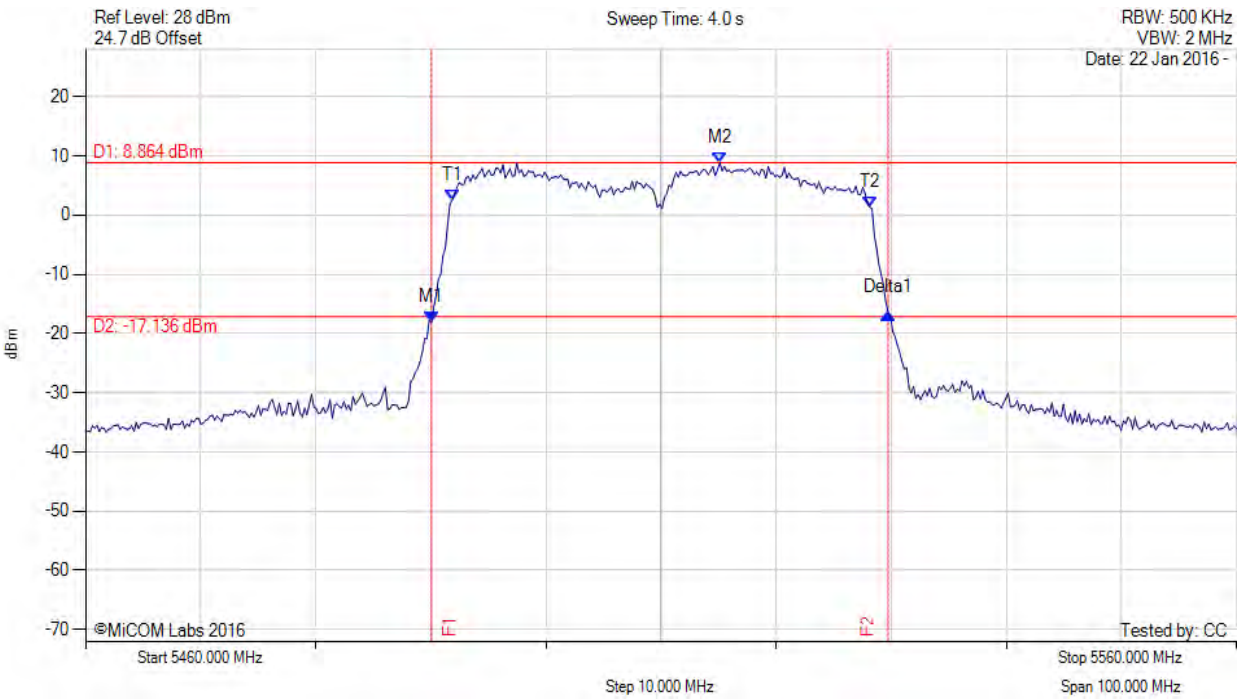
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 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 : 5490.060 MHz : -18.036 dBm M2 : 5515.110 MHz : 8.864 dBm Delta1 : 39.679 MHz : 1.493 dB T1 : 5491.864 MHz : 2.556 dBm T2 : 5528.136 MHz : 1.378 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 39.679 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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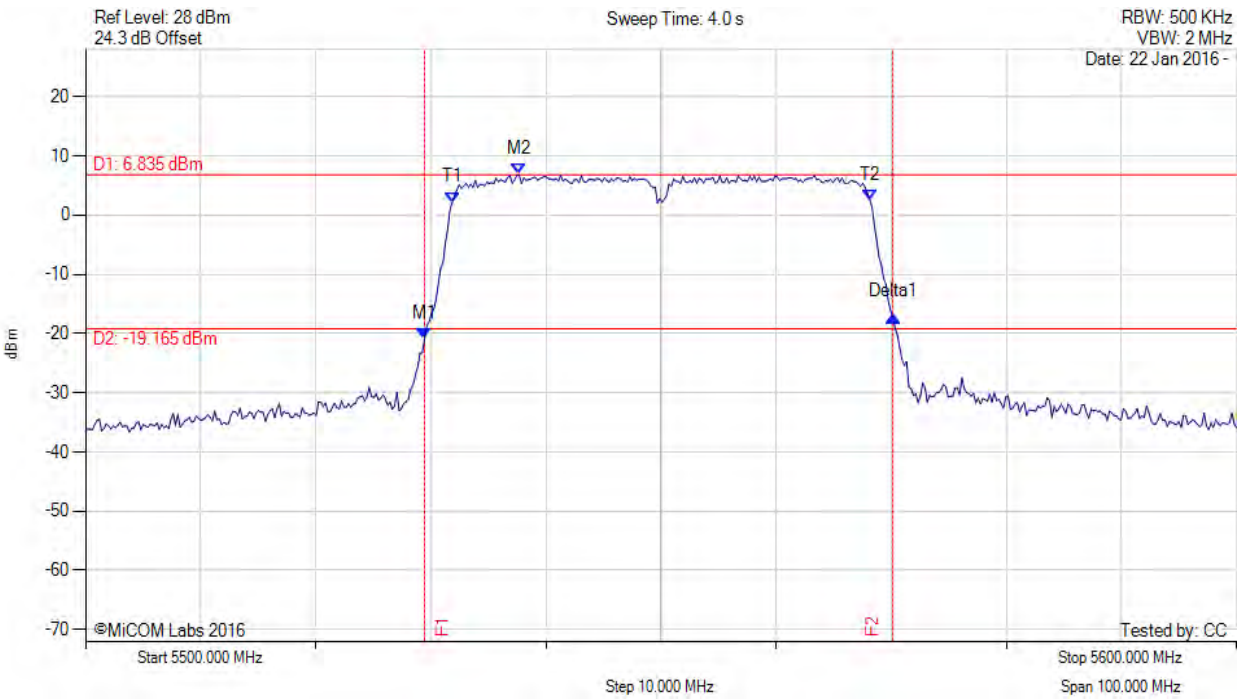
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 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 : 5529.459 MHz : -20.903 dBm M2 : 5537.675 MHz : 6.835 dBm Delta1 : 40.681 MHz : 3.775 dB T1 : 5531.864 MHz : 2.147 dBm T2 : 5568.136 MHz : 2.572 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.681 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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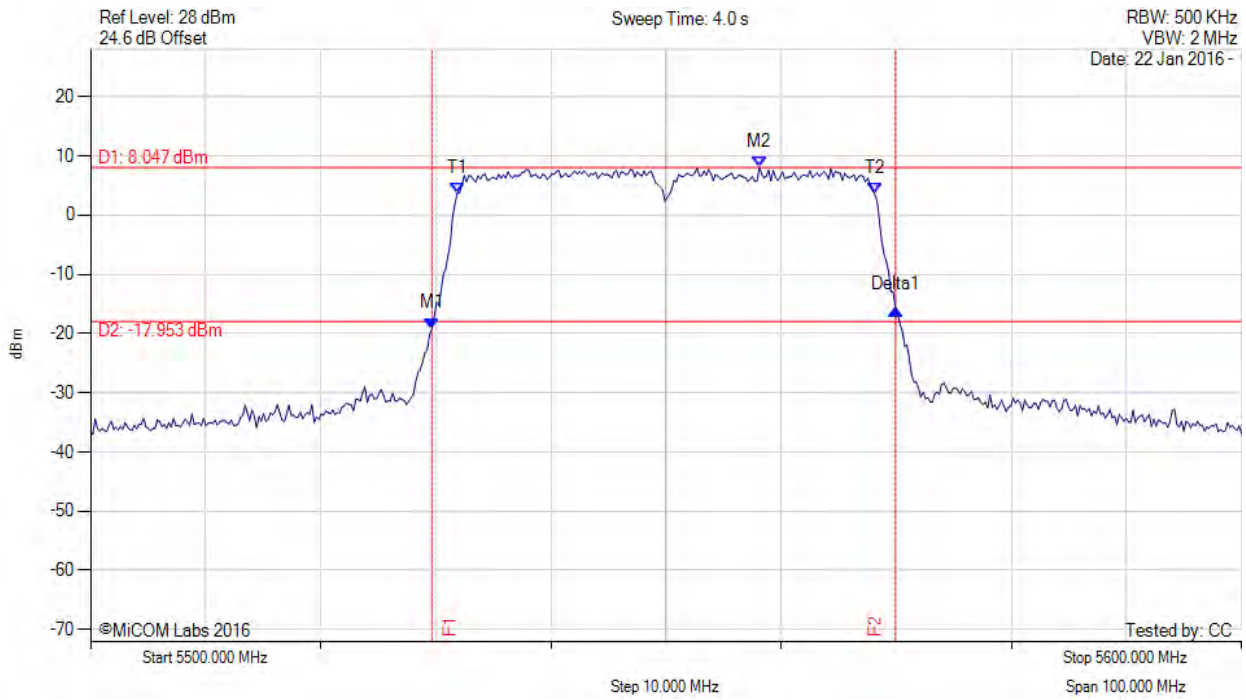
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 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 : 5529.659 MHz : -19.130 dBm M2 : 5558.116 MHz : 8.047 dBm Delta1 : 40.281 MHz : 3.219 dB T1 : 5531.864 MHz : 3.768 dBm T2 : 5568.136 MHz : 3.573 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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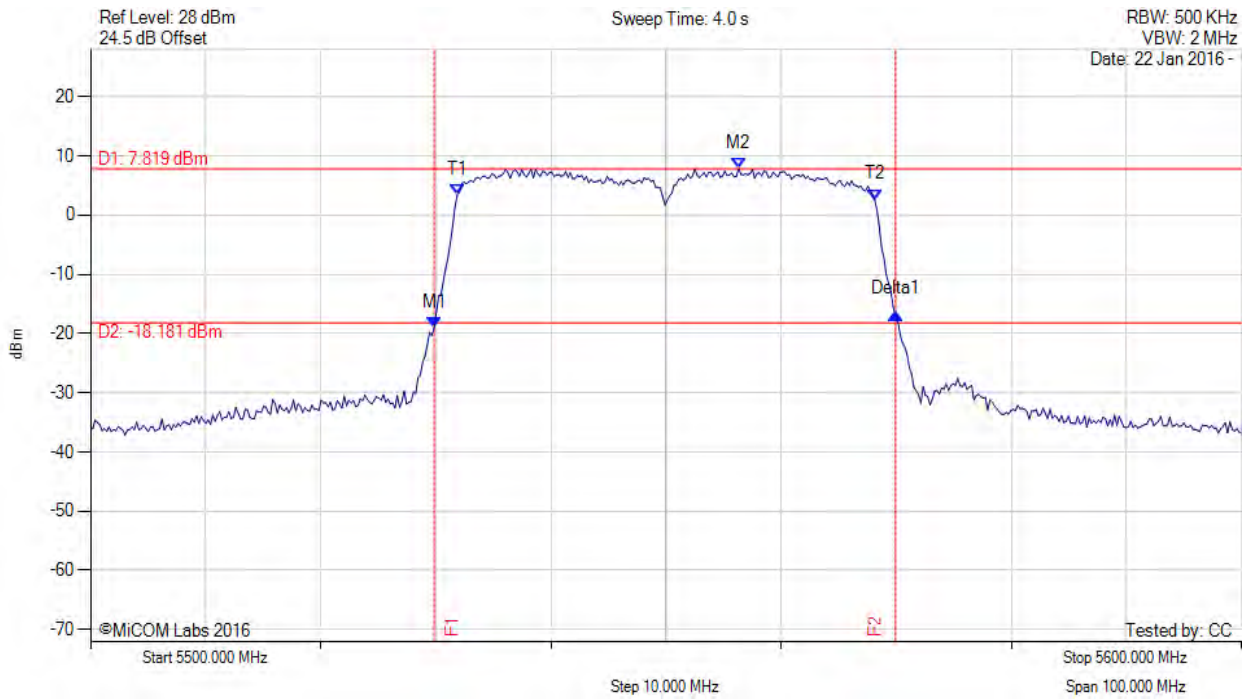
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 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 : 5529.860 MHz : -18.933 dBm M2 : 5556.313 MHz : 7.819 dBm Delta1 : 40.080 MHz : 2.186 dB T1 : 5531.864 MHz : 3.438 dBm T2 : 5568.136 MHz : 2.617 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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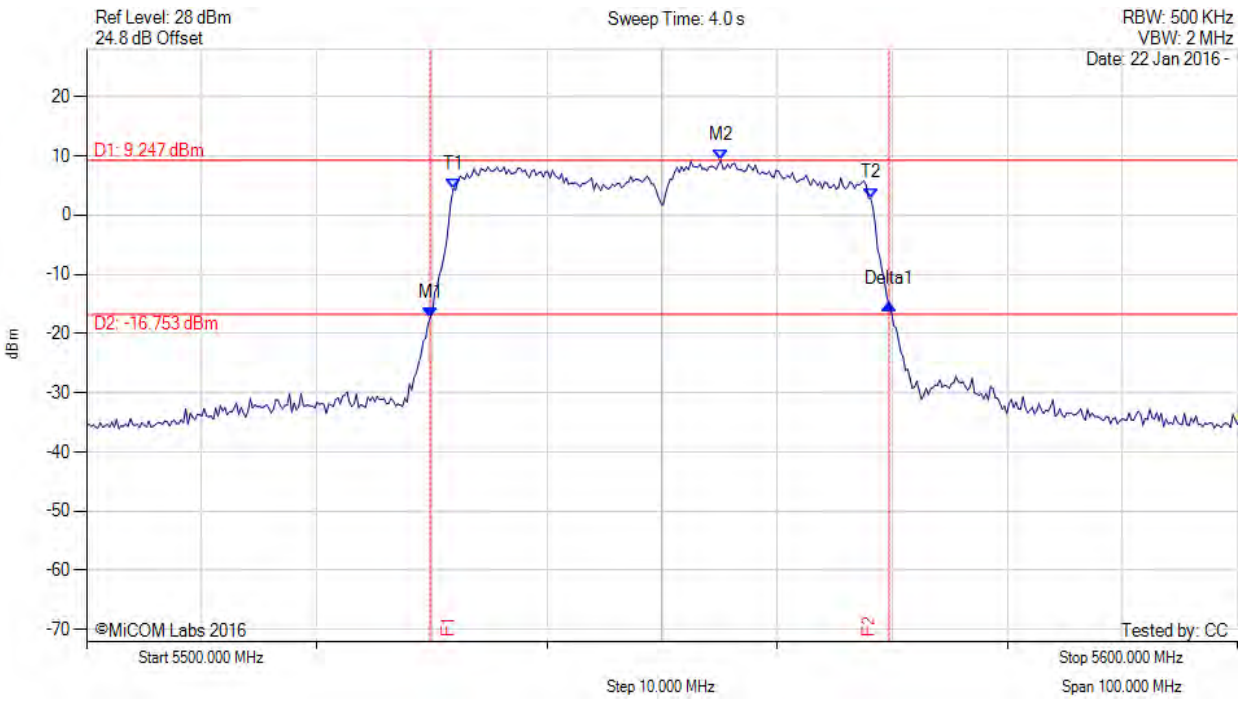
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 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 : 5529.860 MHz : -17.346 dBm M2 : 5555.110 MHz : 9.247 dBm Delta1 : 39.880 MHz : 2.217 dB T1 : 5531.864 MHz : 4.449 dBm T2 : 5568.136 MHz : 2.834 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 39.880 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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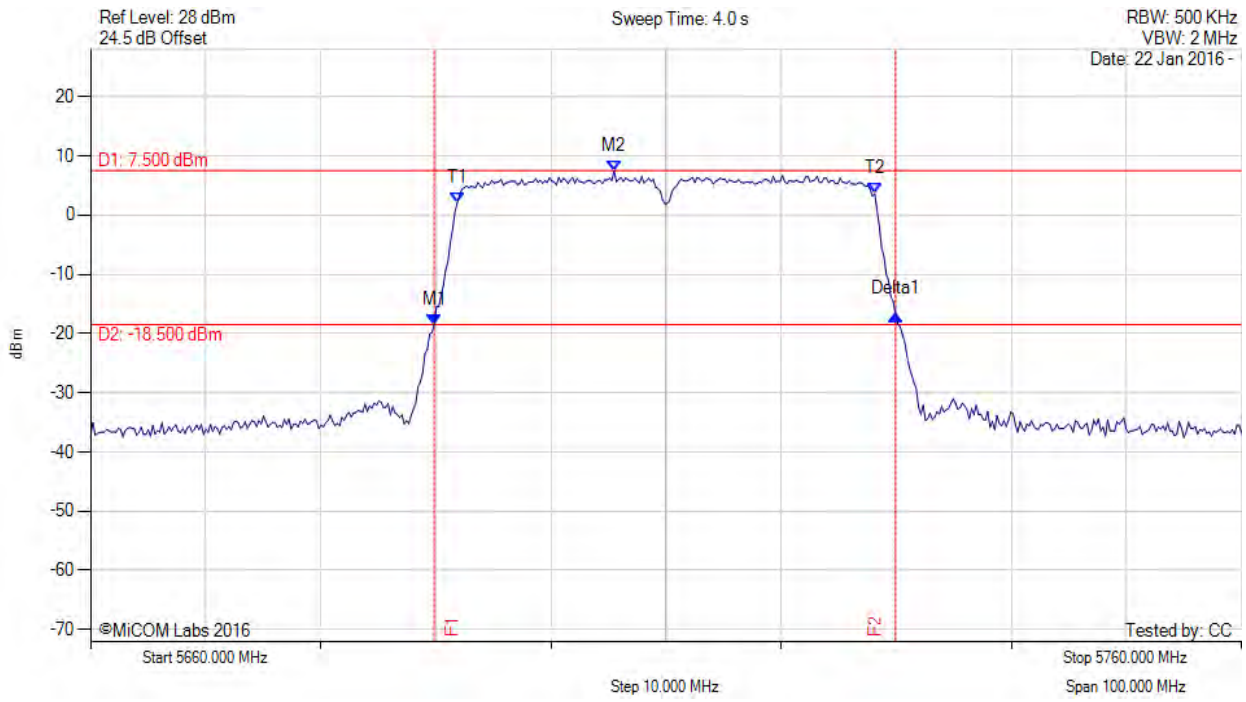
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 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 : 5689.860 MHz : -18.522 dBm M2 : 5705.491 MHz : 7.500 dBm Delta1 : 40.080 MHz : 1.725 dB T1 : 5691.864 MHz : 2.096 dBm T2 : 5728.136 MHz : 3.613 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.080 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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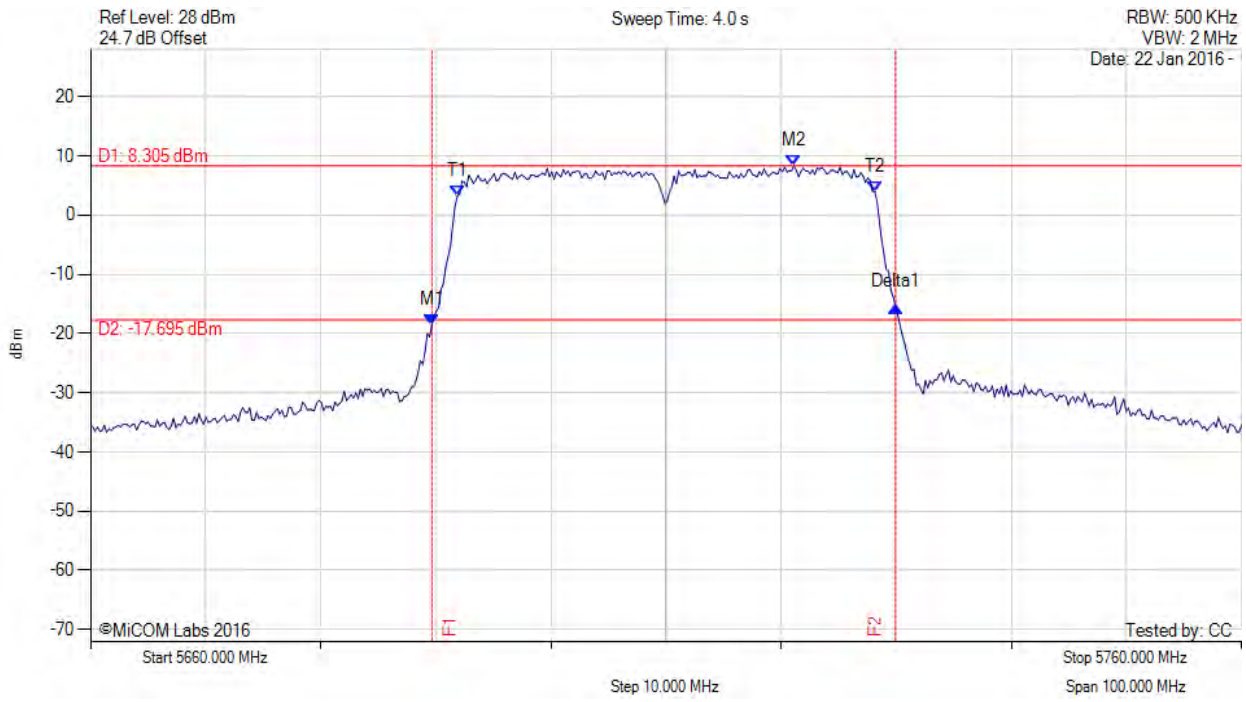
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 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 : 5689.659 MHz : -18.437 dBm M2 : 5721.122 MHz : 8.305 dBm Delta1 : 40.281 MHz : 2.961 dB T1 : 5691.864 MHz : 3.198 dBm T2 : 5728.136 MHz : 3.988 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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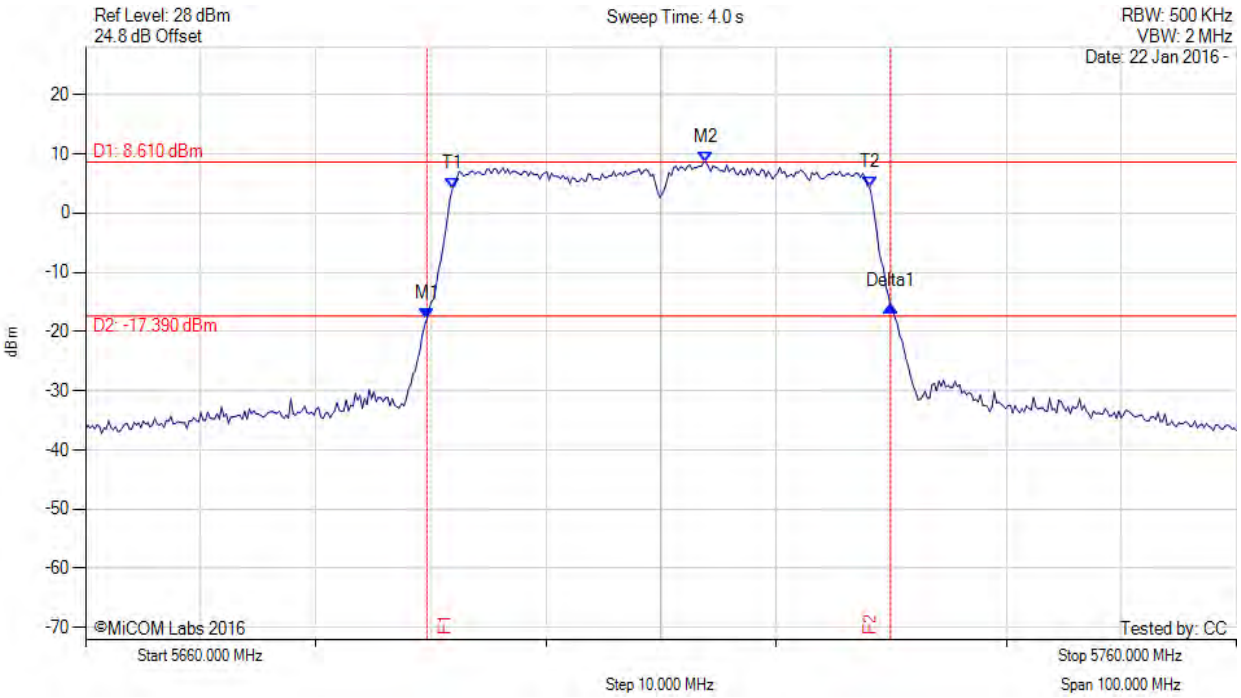
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 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 : 5689.659 MHz : -17.845 dBm M2 : 5713.908 MHz : 8.610 dBm Delta1 : 40.281 MHz : 2.119 dB T1 : 5691.864 MHz : 4.057 dBm T2 : 5728.136 MHz : 4.346 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 40.281 MHz Measured 99% Bandwidth: 36.273 MHz

back to matrix

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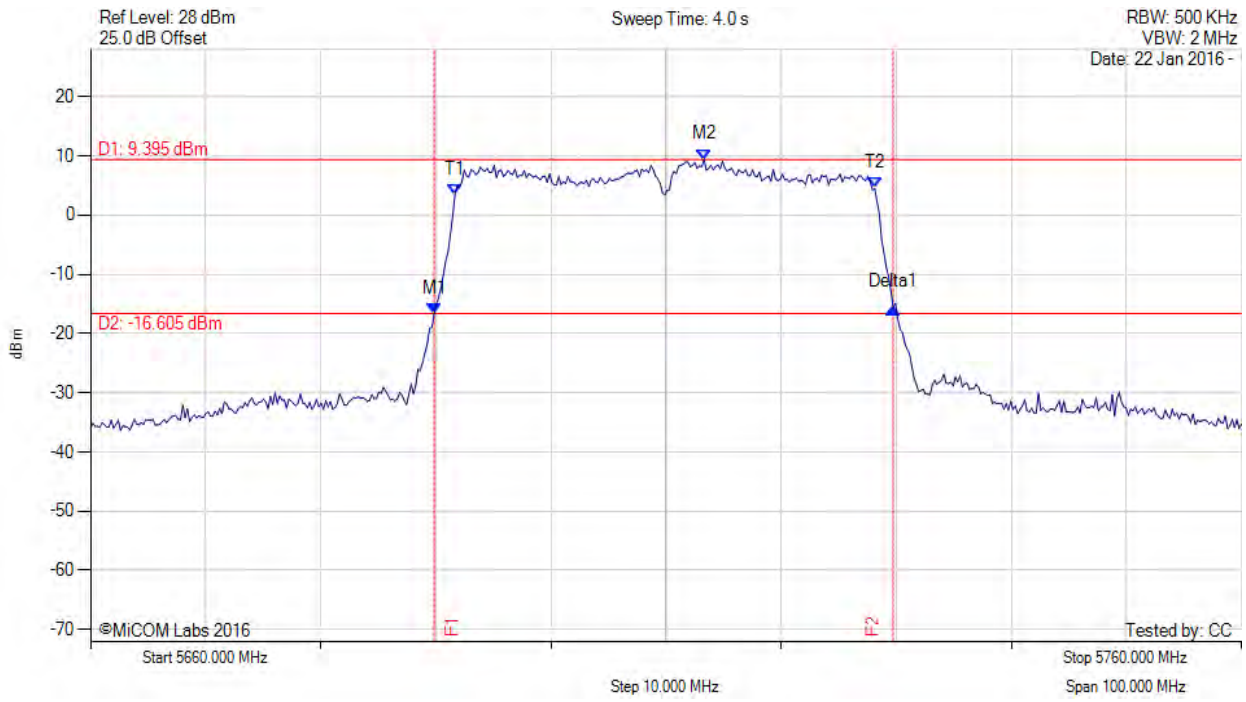
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 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 : 5689.860 MHz : -16.685 dBm M2 : 5713.307 MHz : 9.395 dBm Delta1 : 39.880 MHz : 1.082 dB T1 : 5691.663 MHz : 3.463 dBm T2 : 5728.136 MHz : 4.516 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 39.880 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

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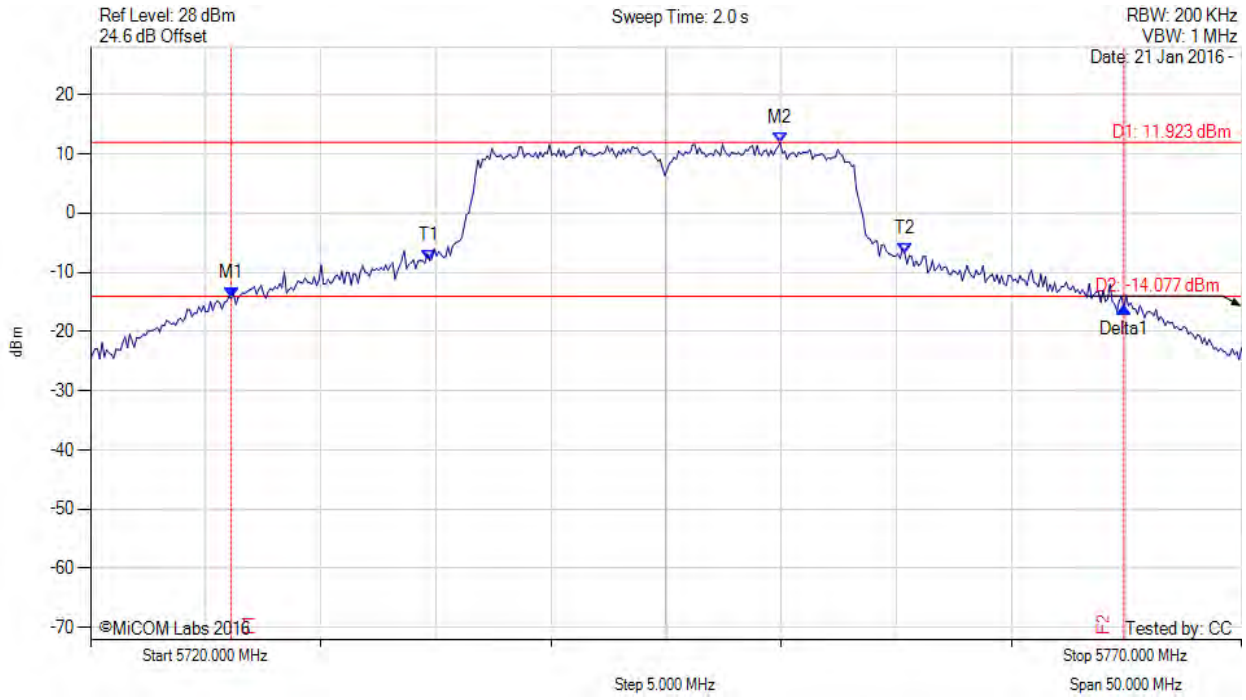
26 dB & 99% BANDWIDTH

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



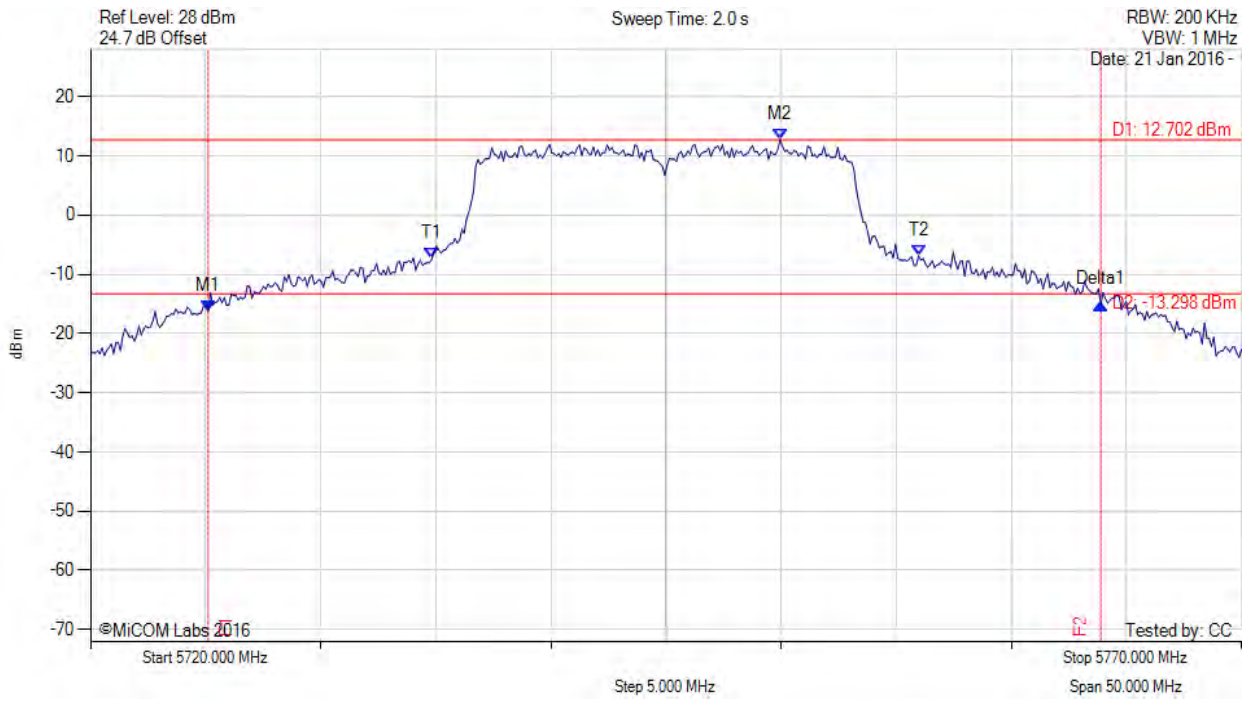
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5726.112 MHz : -14.334 dBm M2 : 5749.960 MHz : 11.923 dBm Delta1 : 38.778 MHz : -1.684 dB T1 : 5734.729 MHz : -7.997 dBm T2 : 5755.371 MHz : -6.773 dBm OBW : 20.641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

back to matrix

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: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 55 Vdc



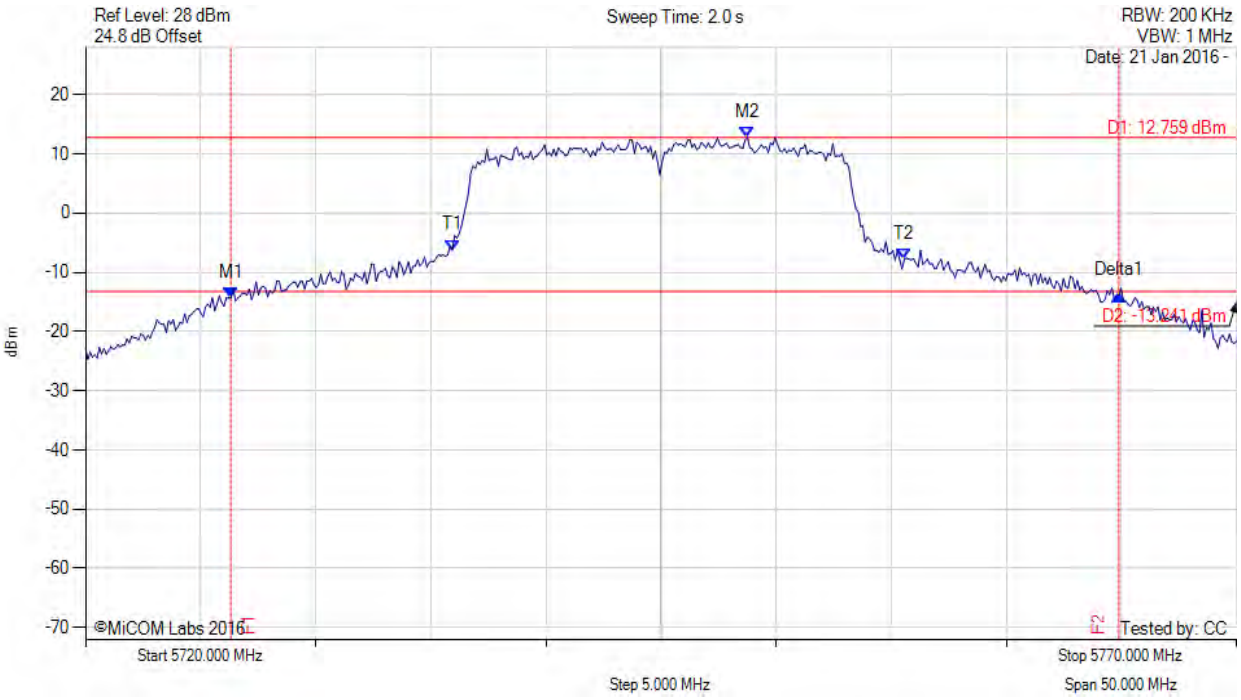
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5725.110 MHz : -16.242 dBm M2 : 5749.960 MHz : 12.702 dBm Delta1 : 38.778 MHz : 1.131 dB T1 : 5734.830 MHz : -7.420 dBm T2 : 5755.972 MHz : -6.871 dBm OBW : 21.142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

back to matrix

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: 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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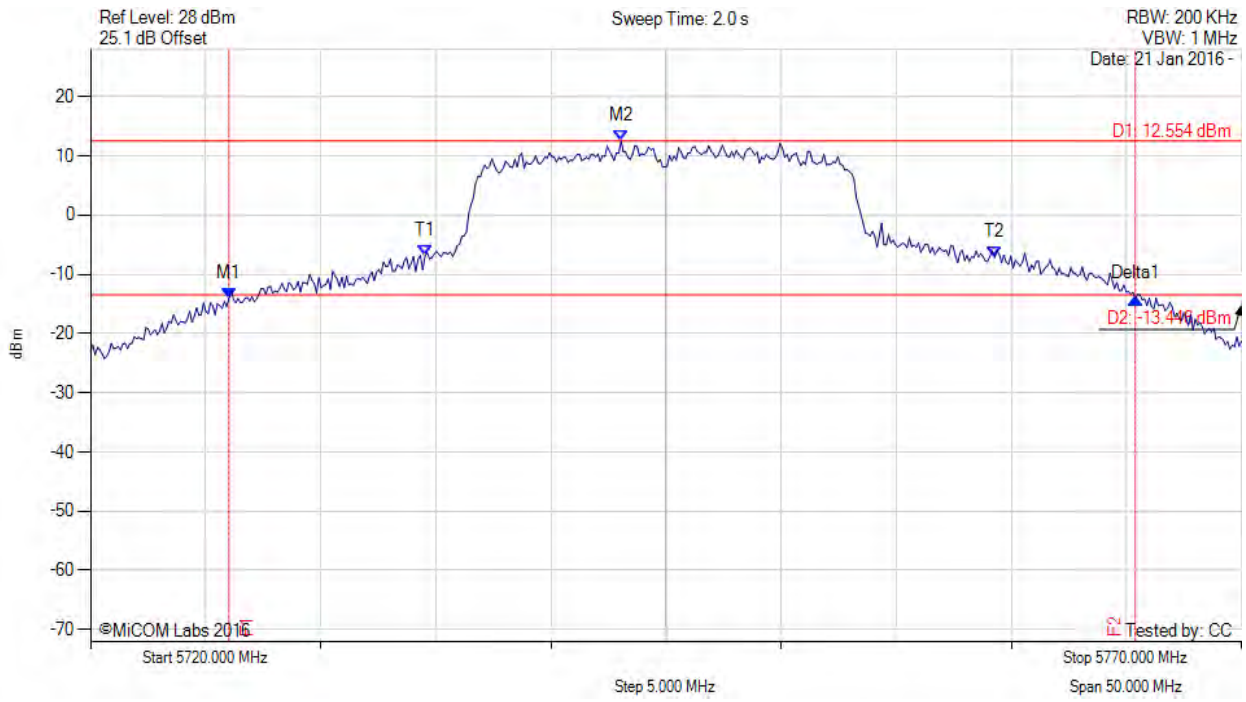
26 dB & 99% BANDWIDTH

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



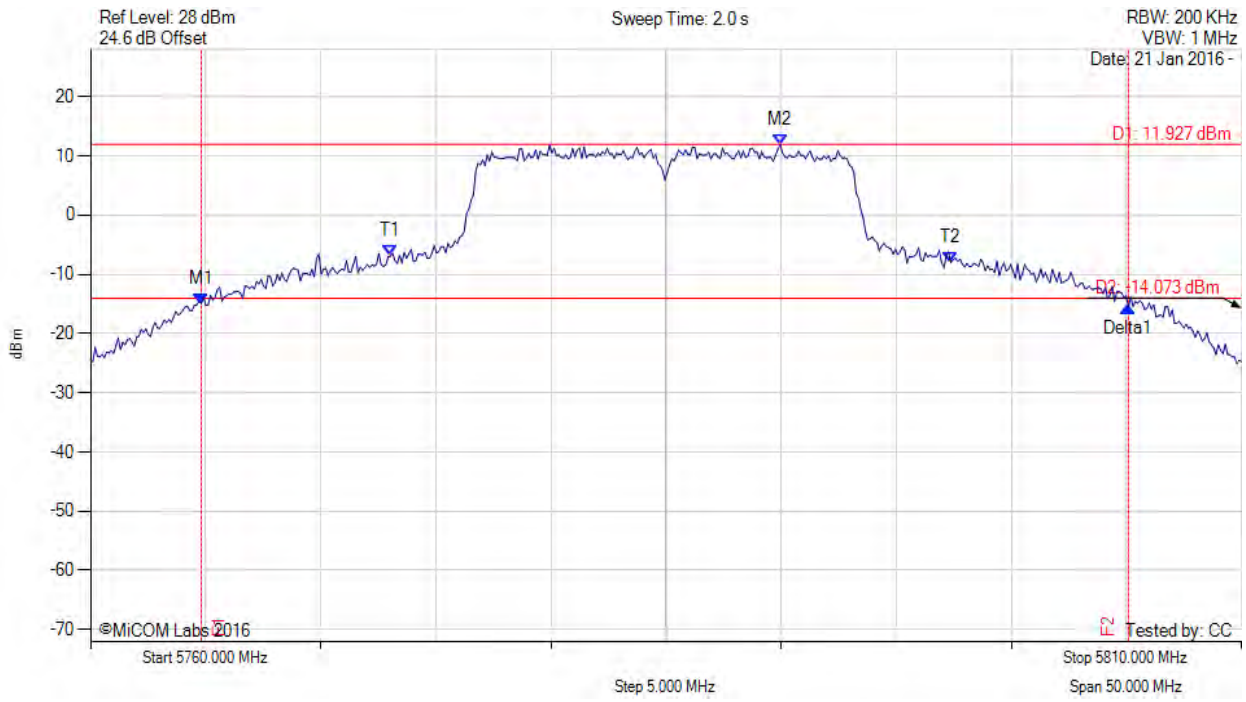
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5726.012 MHz : -14.066 dBm M2 : 5743.046 MHz : 12.554 dBm Delta1 : 39.379 MHz : -0.083 dB T1 : 5734.529 MHz : -6.944 dBm T2 : 5759.279 MHz : -7.163 dBm OBW : 24.749 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



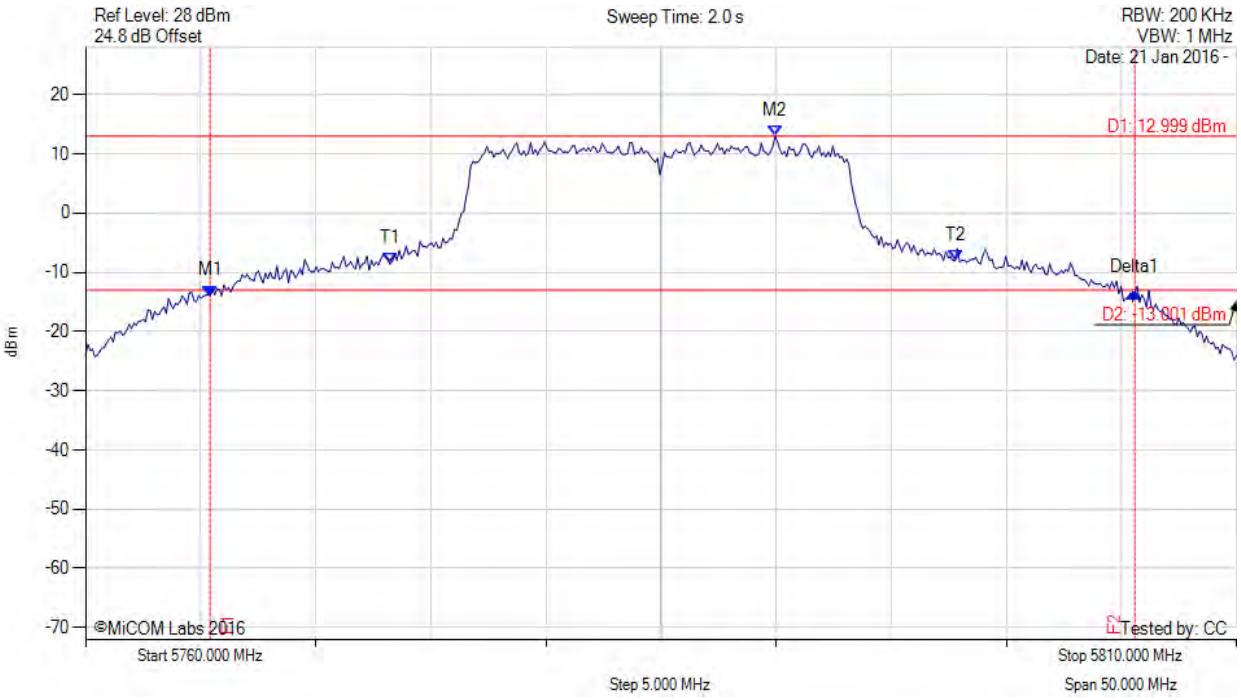
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5764.810 MHz : -14.955 dBm M2 : 5789.960 MHz : 11.927 dBm Delta1 : 40.281 MHz : -0.592 dB T1 : 5773.026 MHz : -6.944 dBm T2 : 5797.375 MHz : -8.040 dBm OBW : 24.349 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

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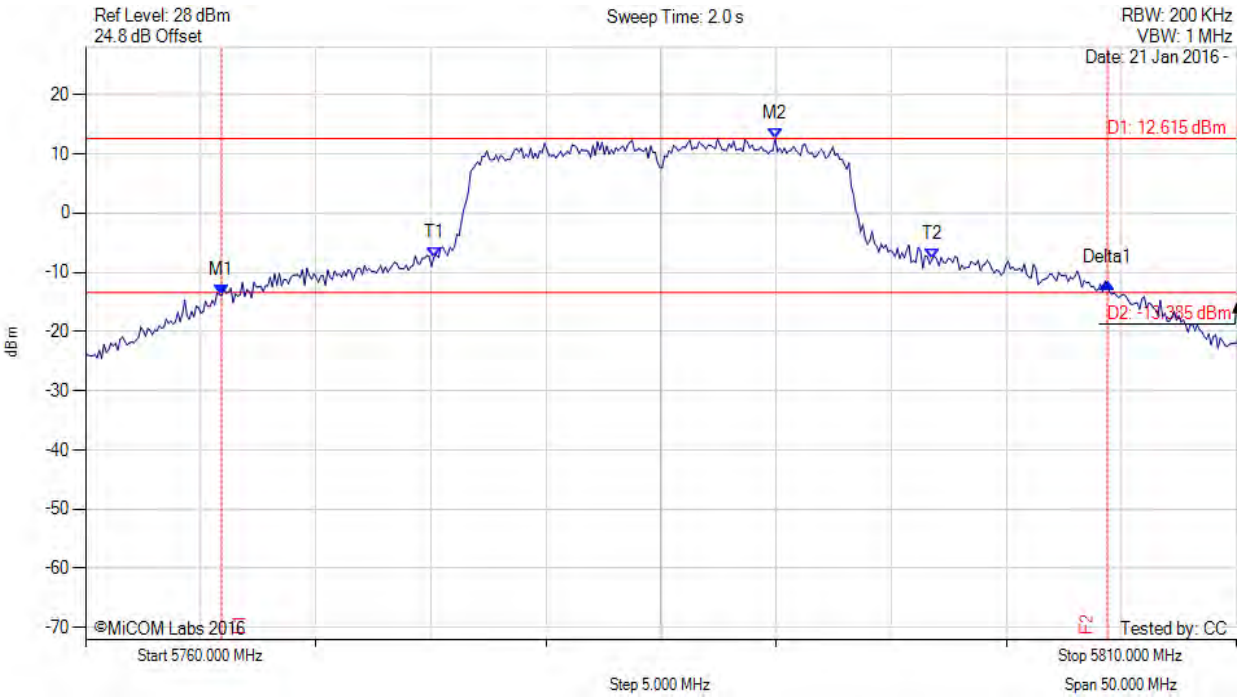
26 dB & 99% BANDWIDTH

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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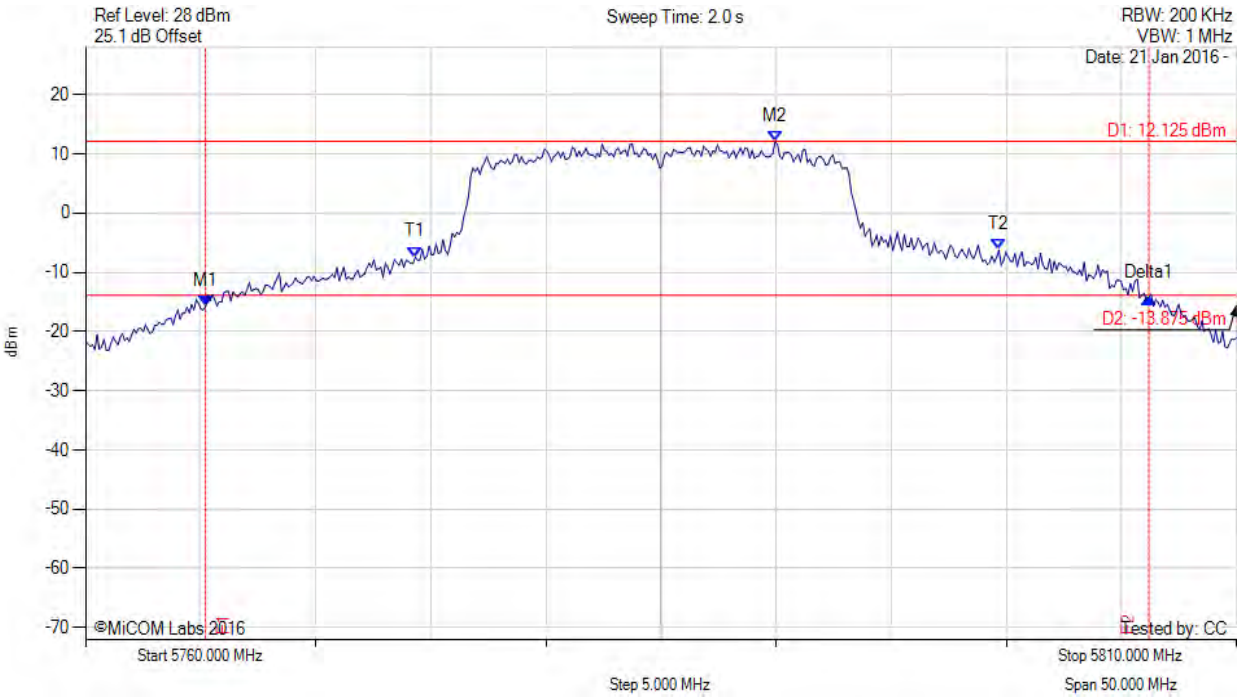
26 dB & 99% BANDWIDTH

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

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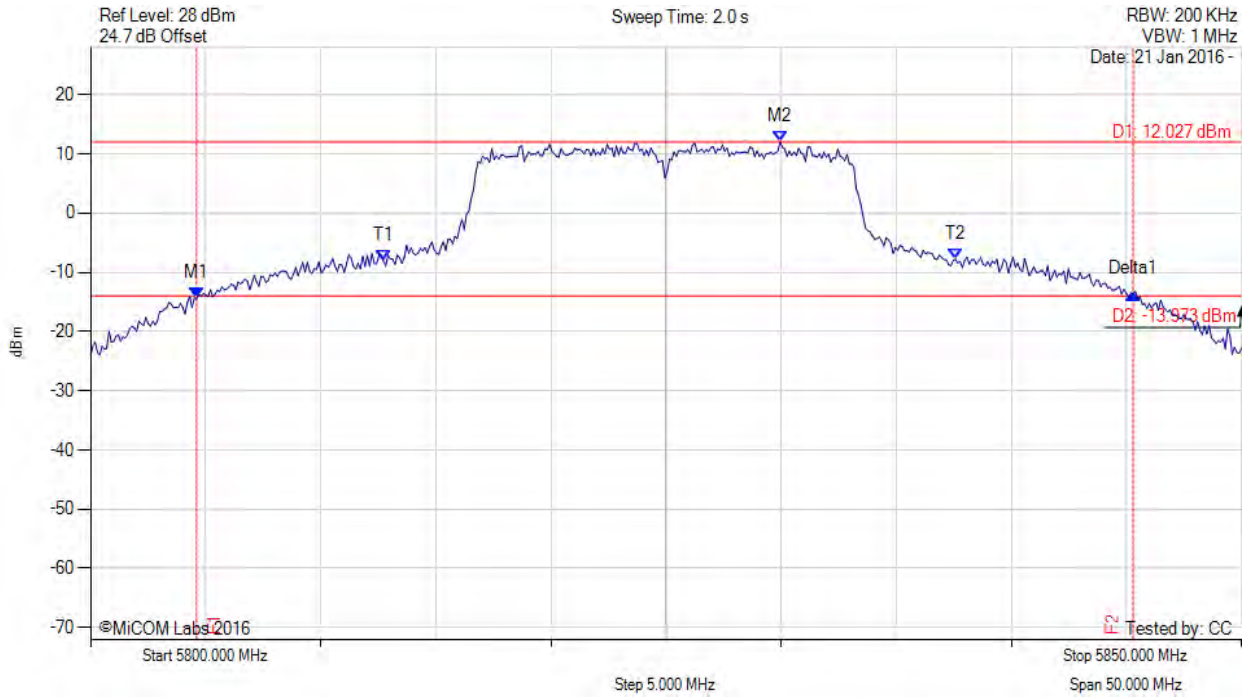
26 dB & 99% BANDWIDTH

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

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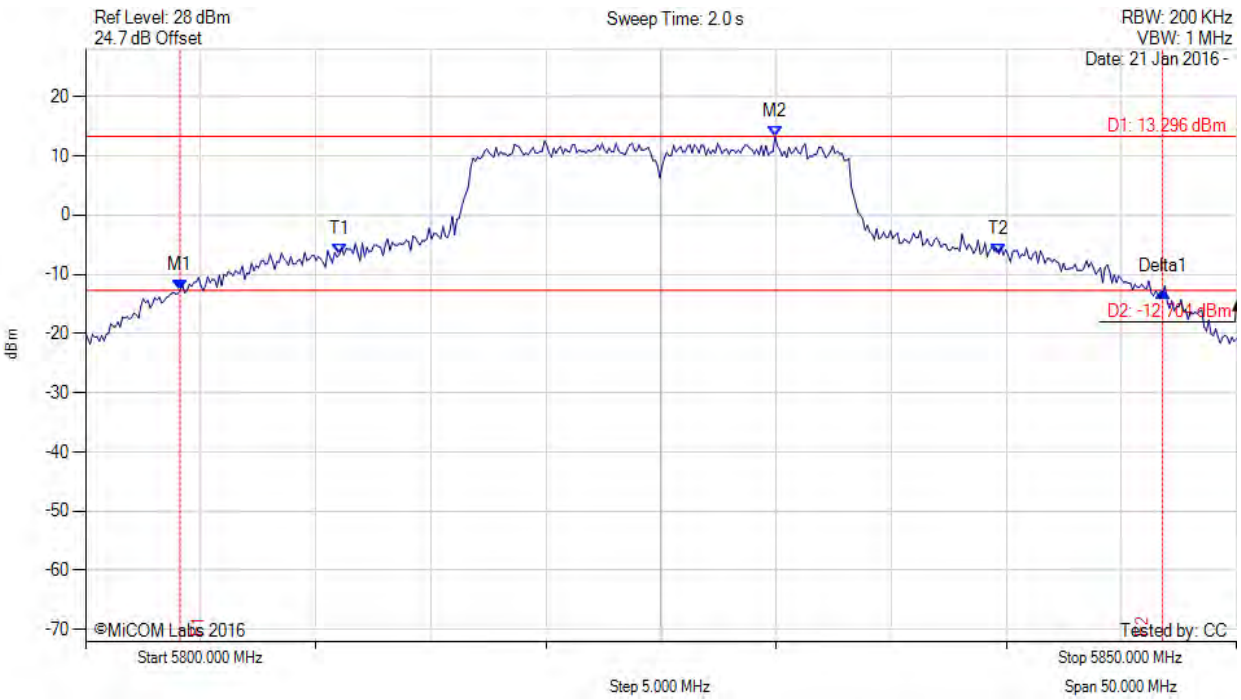
26 dB & 99% BANDWIDTH

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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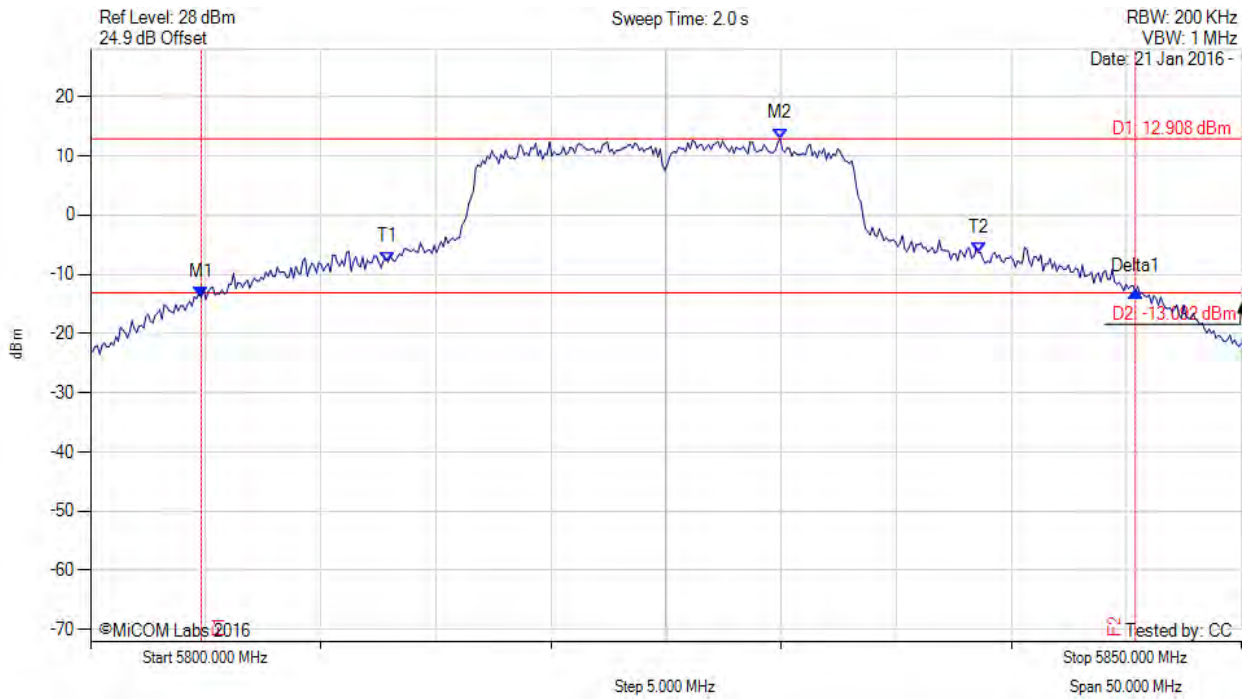
26 dB & 99% BANDWIDTH

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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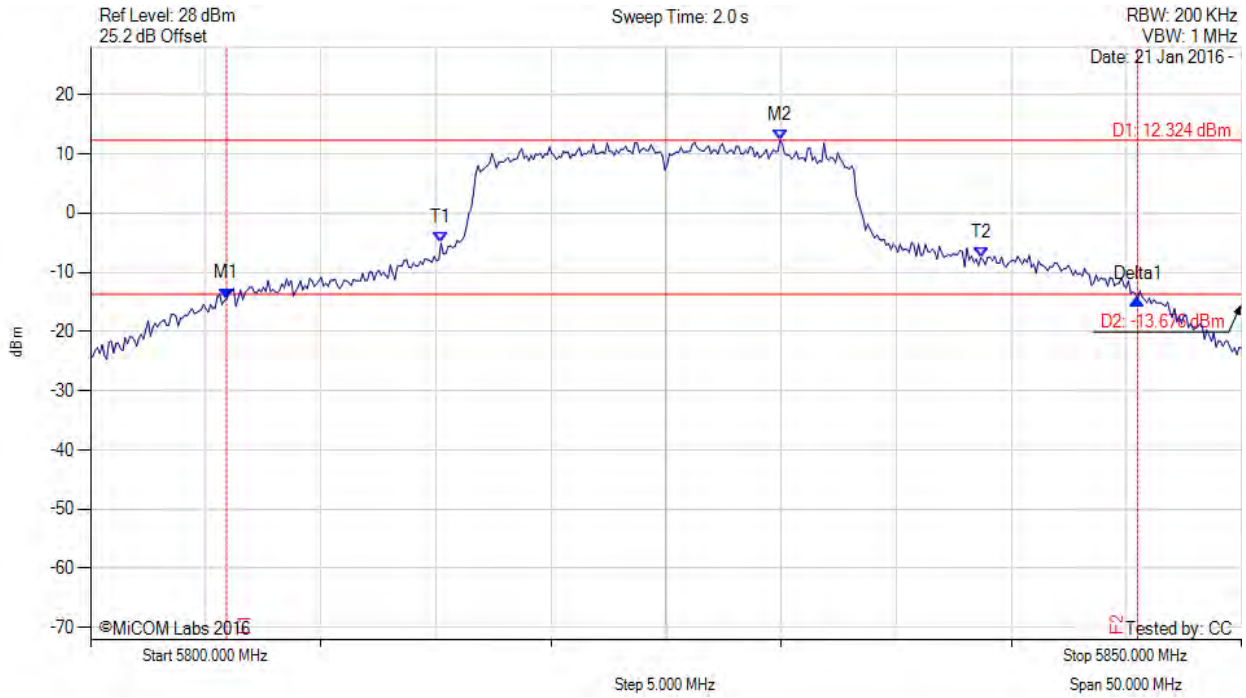
26 dB & 99% BANDWIDTH

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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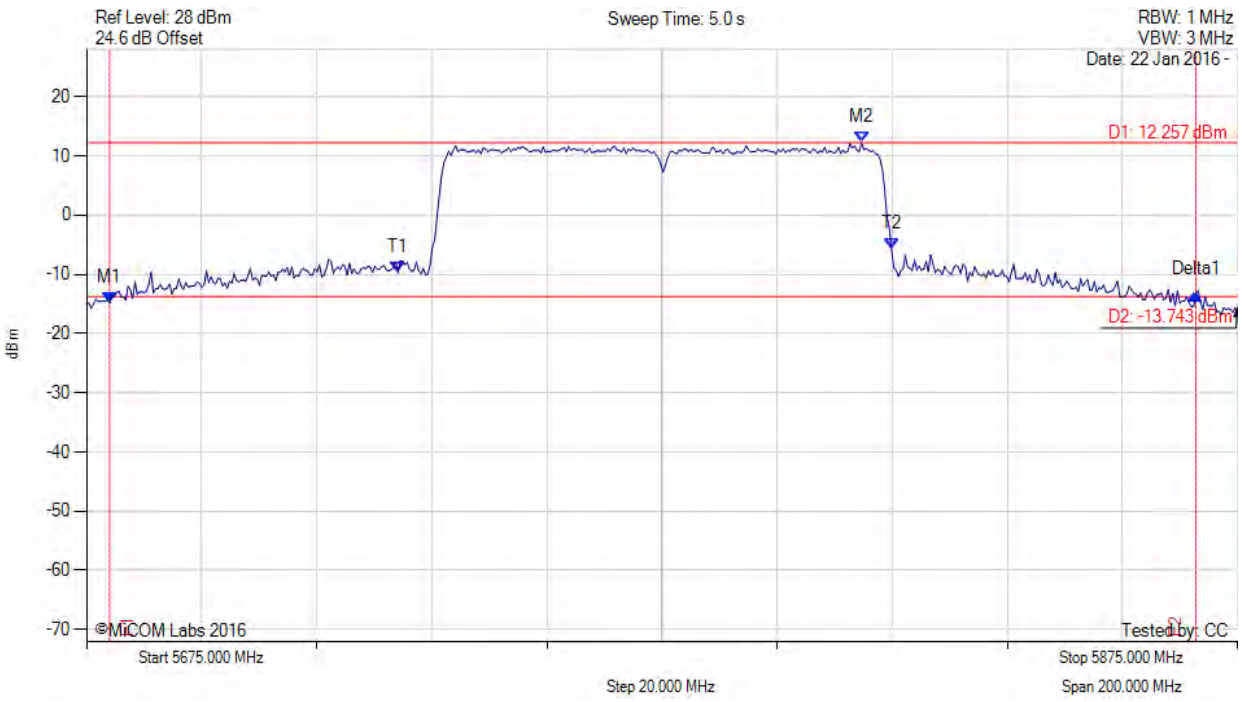
26 dB & 99% BANDWIDTH

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 : 5679.008 MHz : -14.859 dBm M2 : 5809.669 MHz : 12.257 dBm Delta1 : 188.778 MHz : 1.479 dB T1 : 5729.108 MHz : -9.718 dBm T2 : 5814.880 MHz : -5.709 dBm OBW : 85.772 MHz	Measured 26 dB Bandwidth: 188.778 MHz Measured 99% Bandwidth: 85.772 MHz

back to matrix

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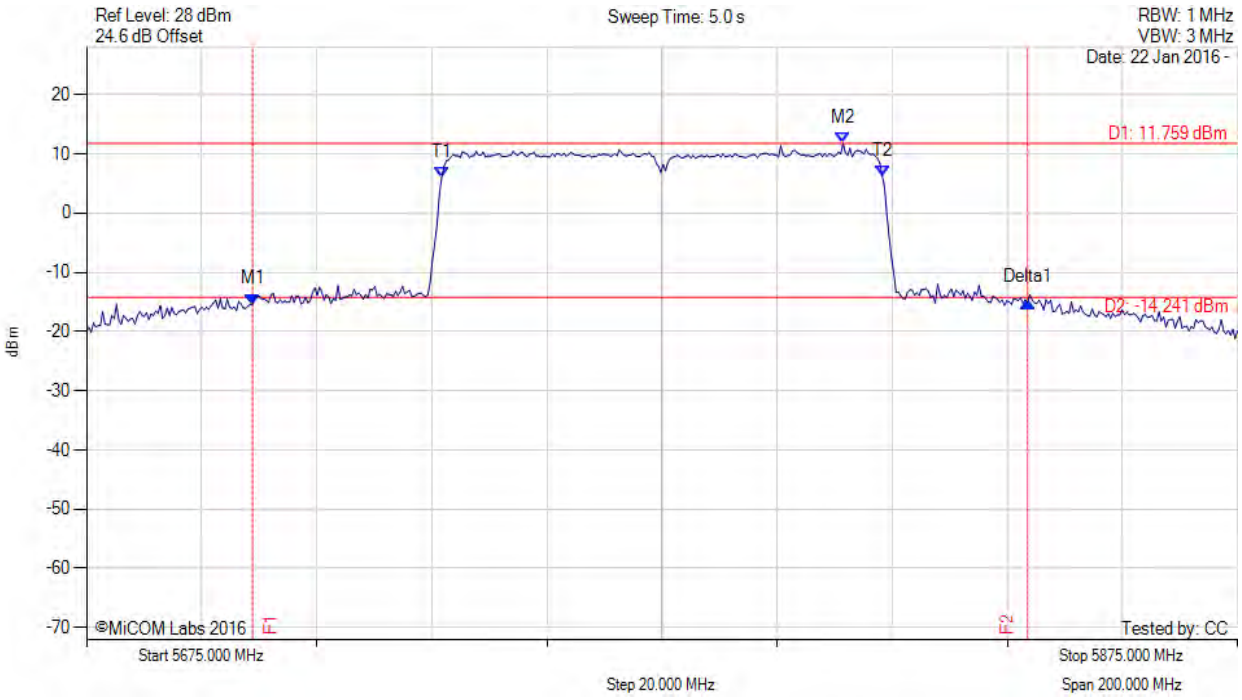
26 dB & 99% BANDWIDTH

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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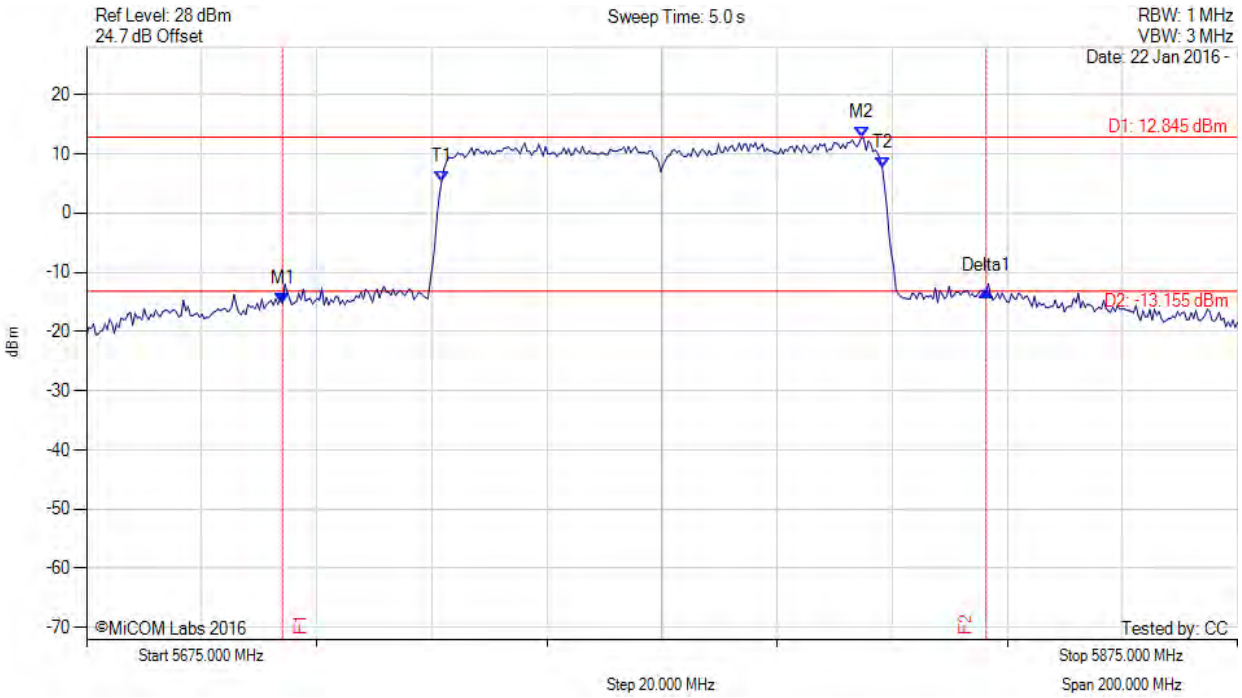
26 dB & 99% BANDWIDTH

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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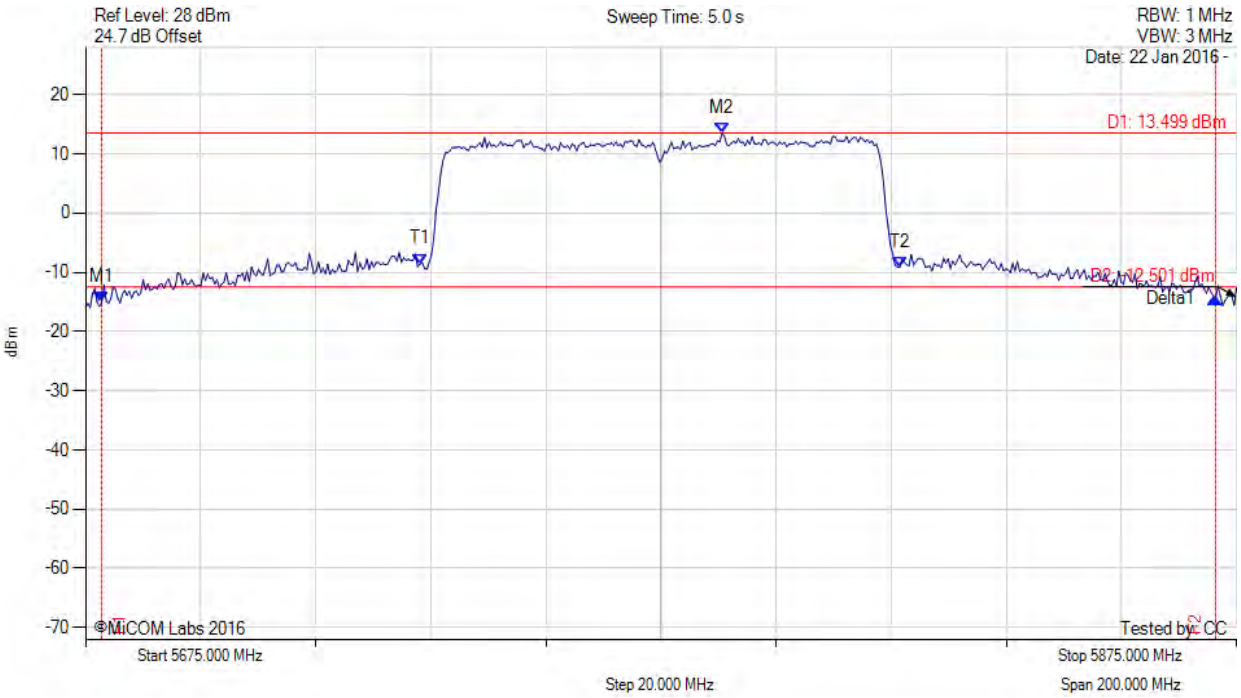
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain 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 : 5677.806 MHz : -15.105 dBm M2 : 5785.621 MHz : 13.499 dBm Delta1 : 193.587 MHz : 0.698 dB T1 : 5733.116 MHz : -8.591 dBm T2 : 5816.483 MHz : -9.116 dBm OBW : 83.367 MHz	Measured 26 dB Bandwidth: 193.587 MHz Measured 99% Bandwidth: 83.367 MHz

back to matrix

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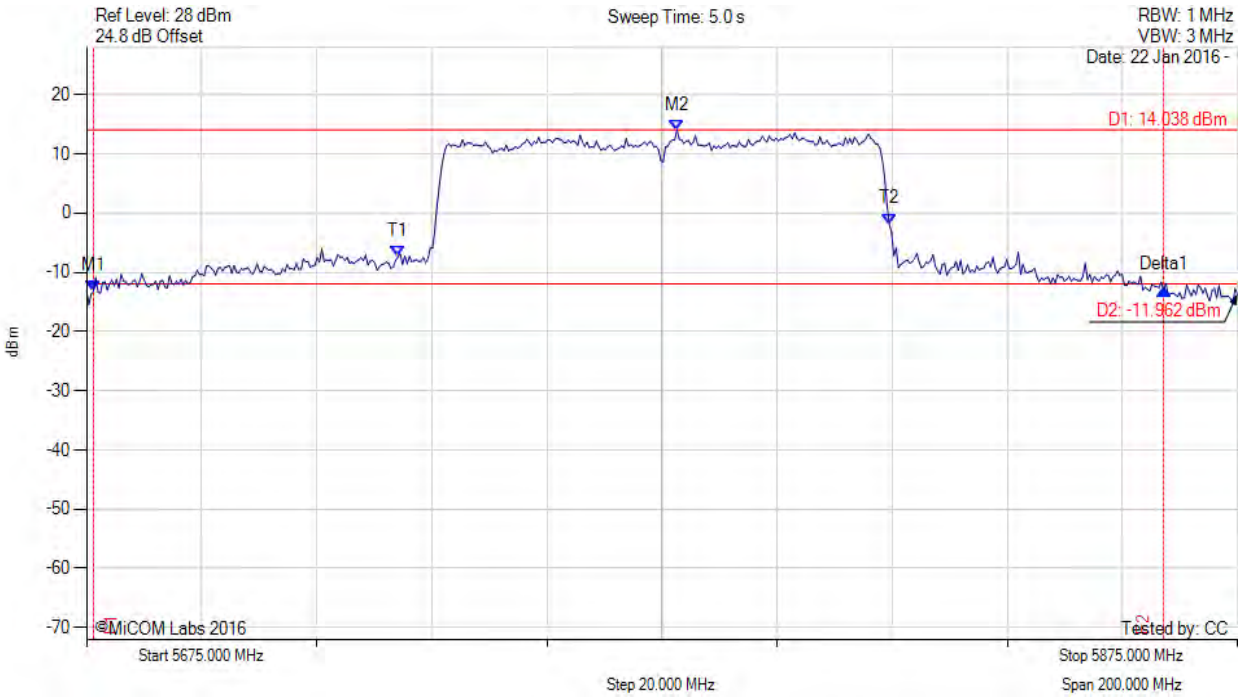
26 dB & 99% BANDWIDTH

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 : 5676.202 MHz : -13.210 dBm M2 : 5777.605 MHz : 14.038 dBm Delta1 : 185.972 MHz : 0.258 dB T1 : 5729.108 MHz : -7.379 dBm T2 : 5814.479 MHz : -1.835 dBm OBW : 85.371 MHz	Measured 26 dB Bandwidth: 185.972 MHz Measured 99% Bandwidth: 85.371 MHz

back to matrix

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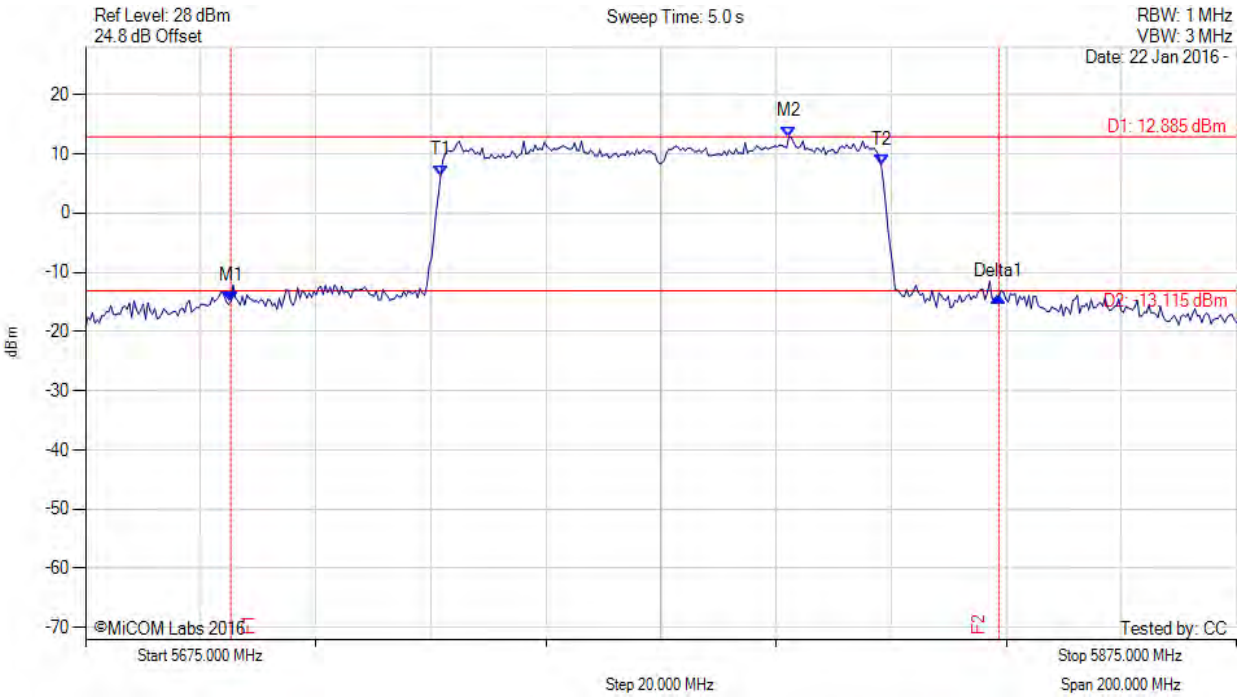
26 dB & 99% BANDWIDTH

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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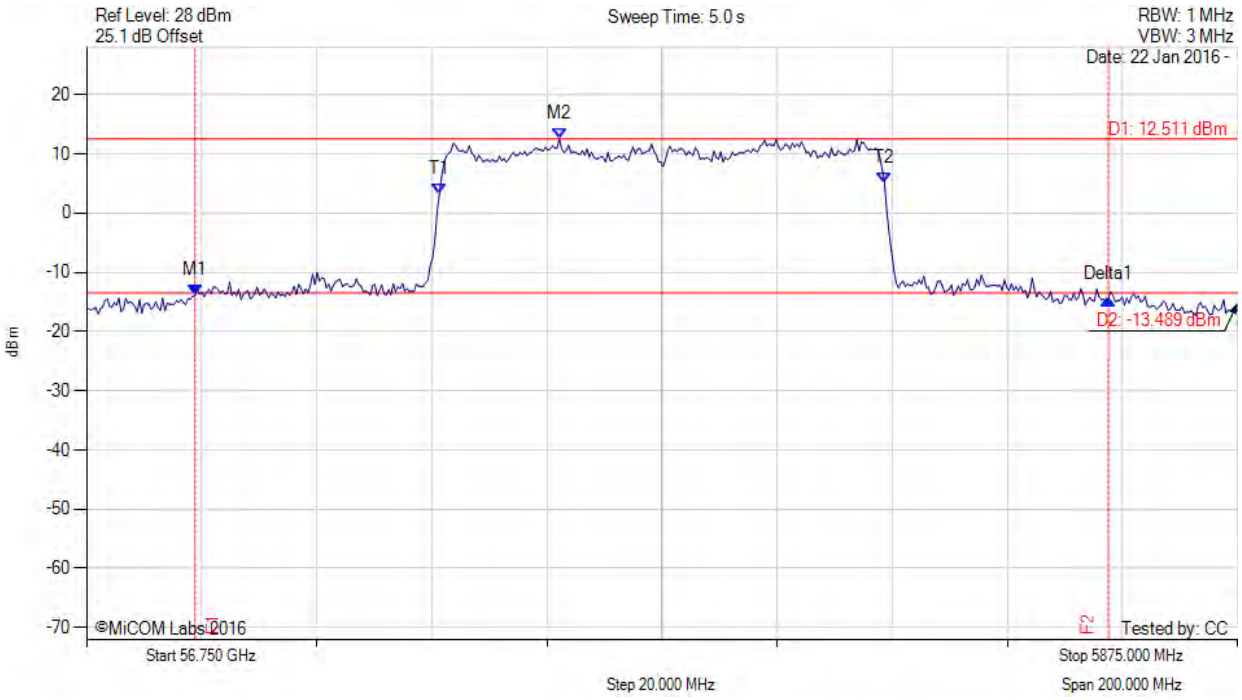
26 dB & 99% BANDWIDTH

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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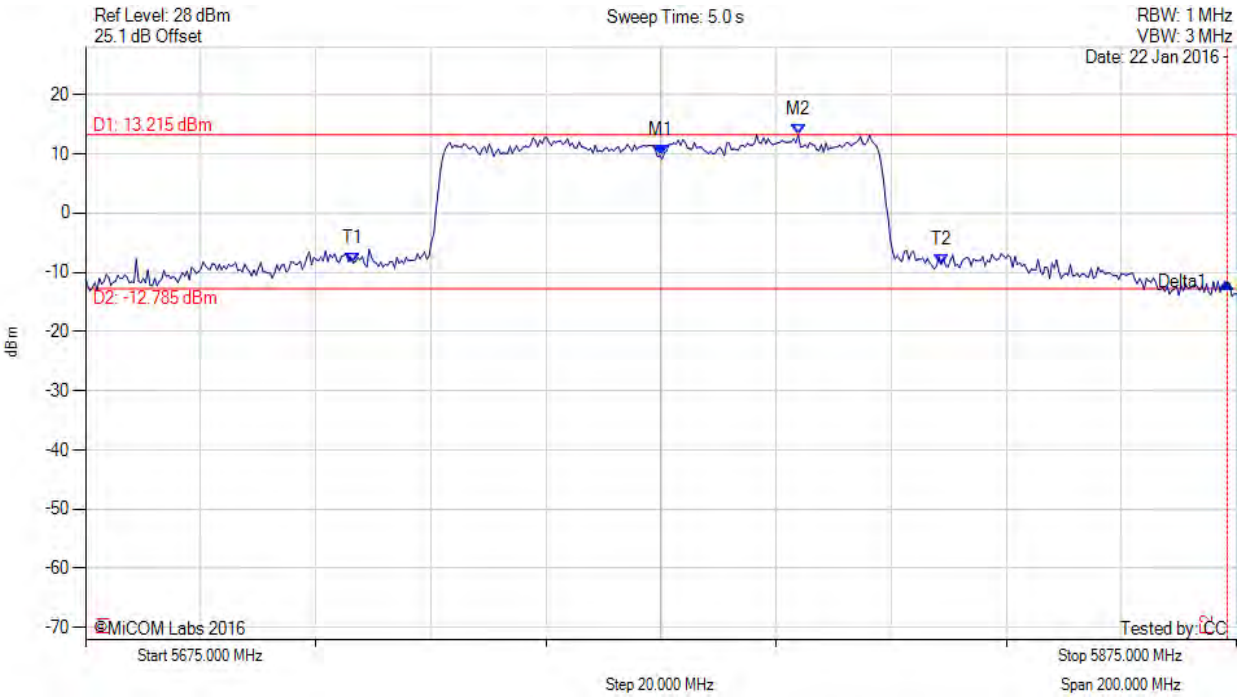
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain 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 : 5775.000 MHz : 9.711 dBm M2 : 5798.848 MHz : 13.215 dBm Delta1 : 98.397 MHz : -21.393 dB T1 : 5721.493 MHz : -8.430 dBm T2 : 5823.697 MHz : -8.681 dBm OBW : 102.204 MHz	Measured 26 dB Bandwidth: 98.397 MHz Measured 99% Bandwidth: 102.204 MHz

back to matrix

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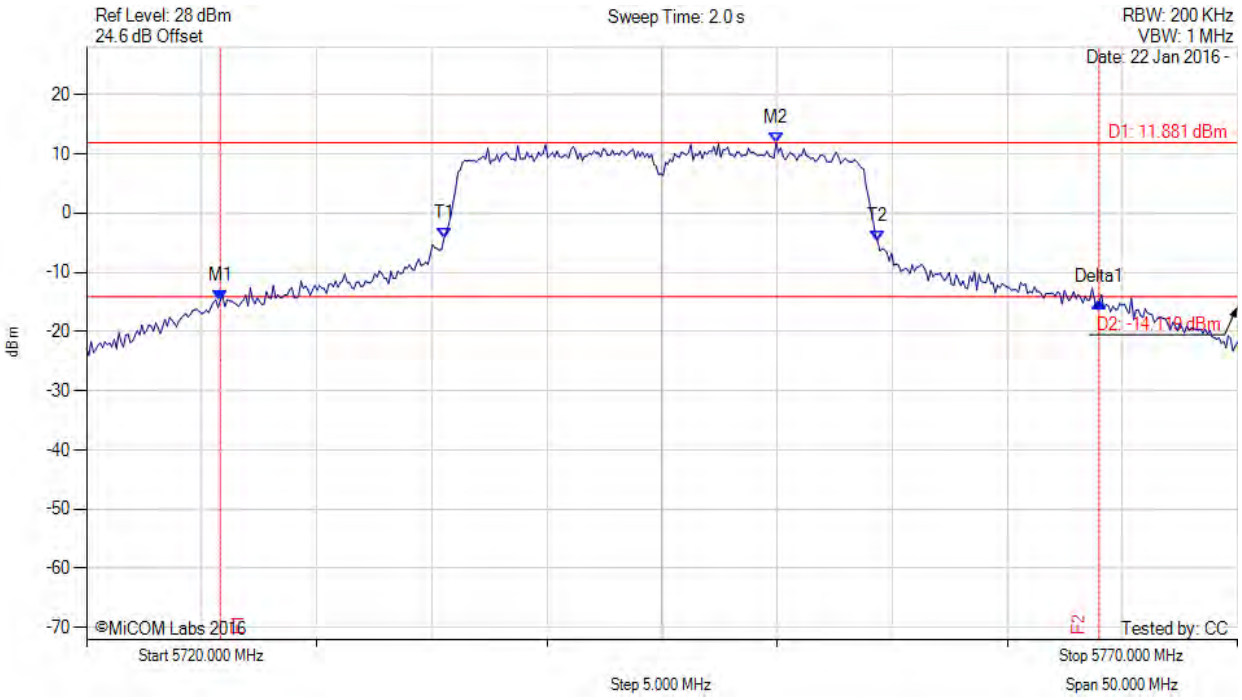
26 dB & 99% BANDWIDTH

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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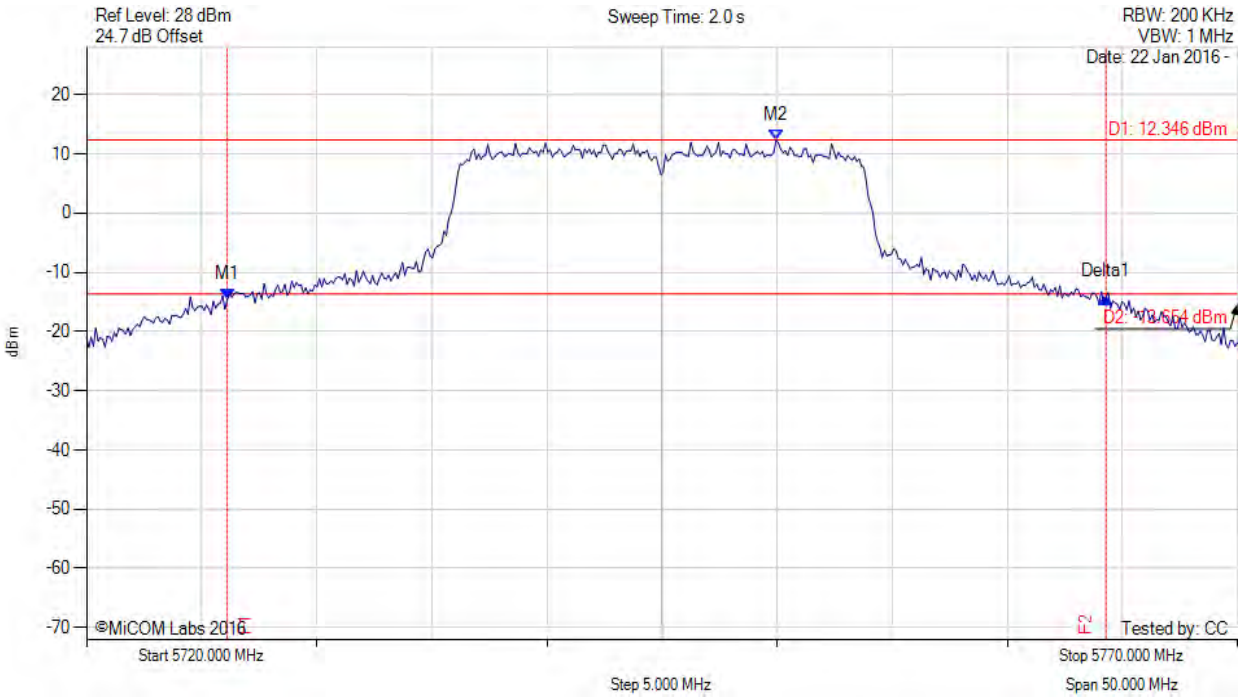
26 dB & 99% BANDWIDTH

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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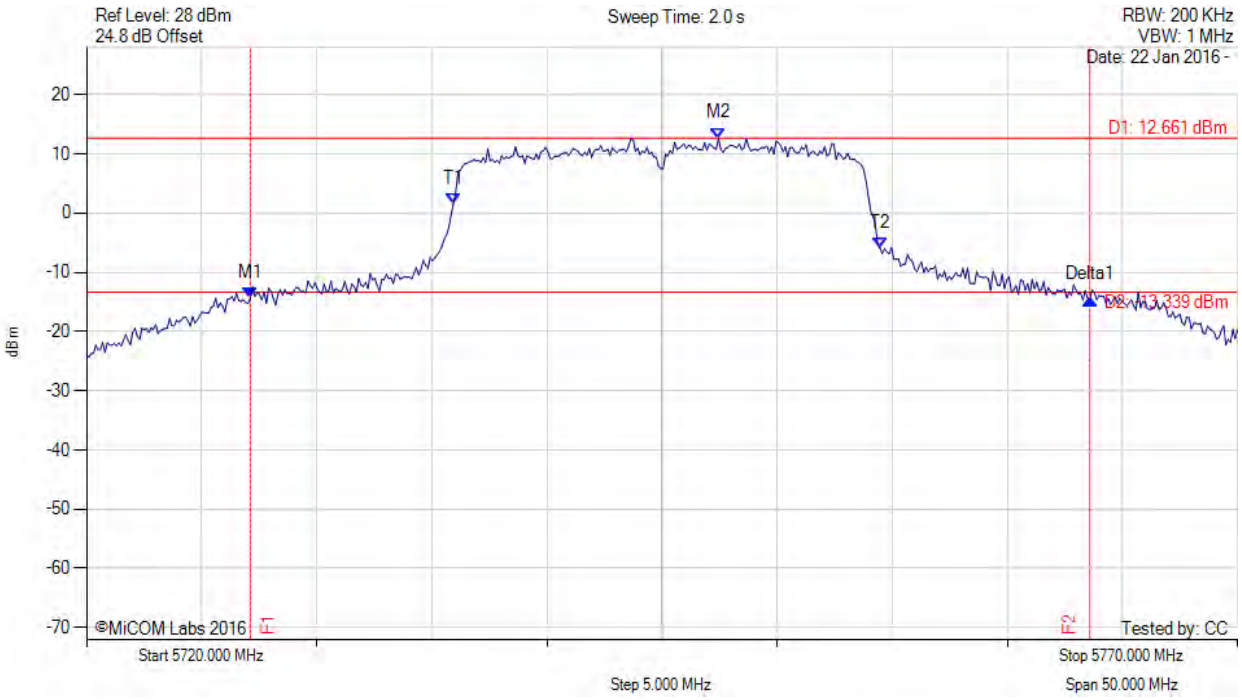
26 dB & 99% BANDWIDTH

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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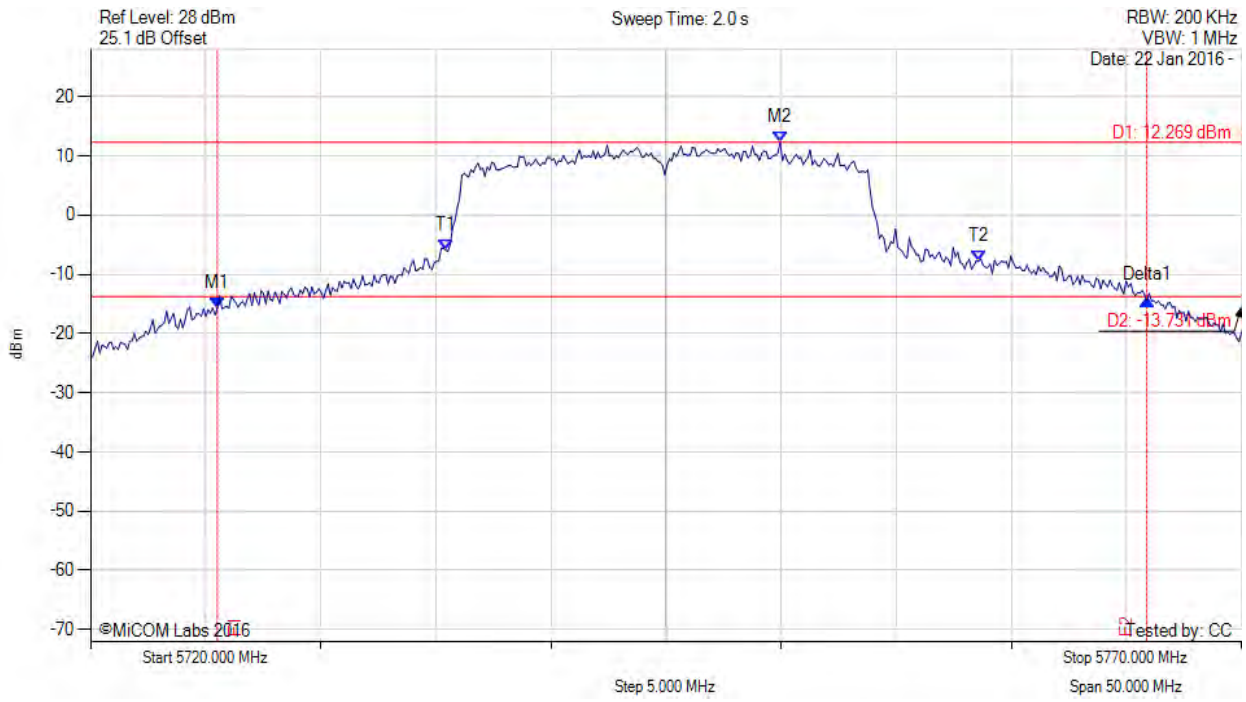
26 dB & 99% BANDWIDTH

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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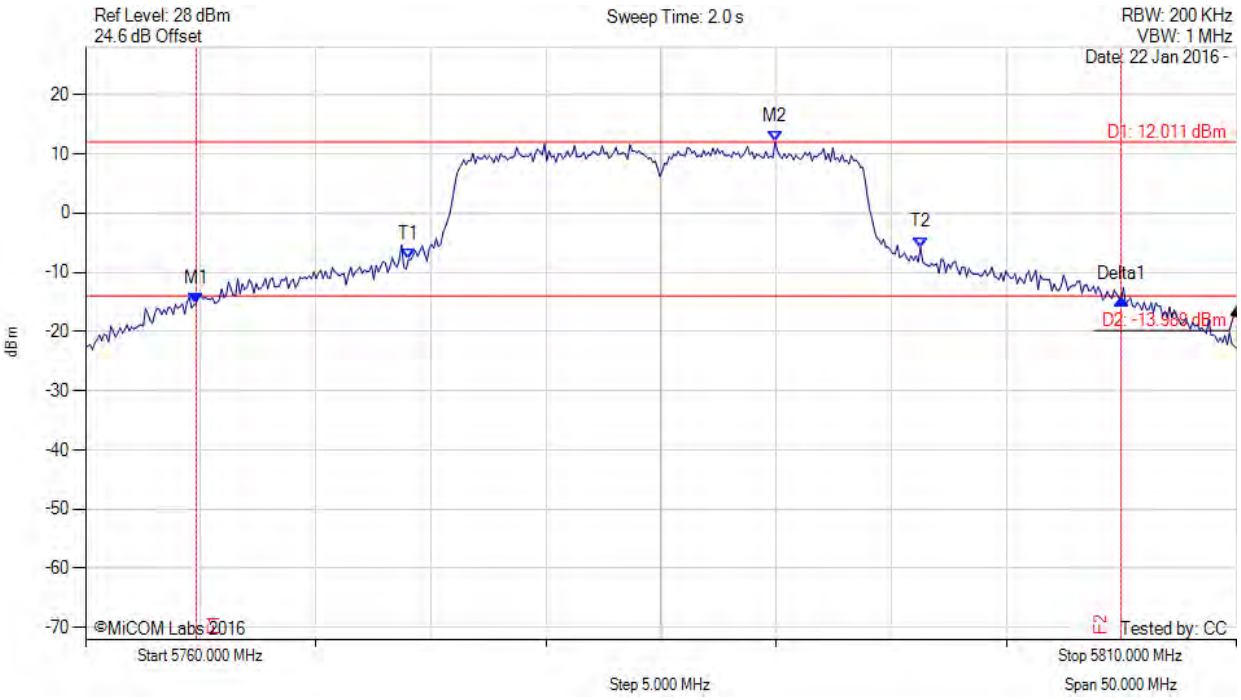
26 dB & 99% BANDWIDTH

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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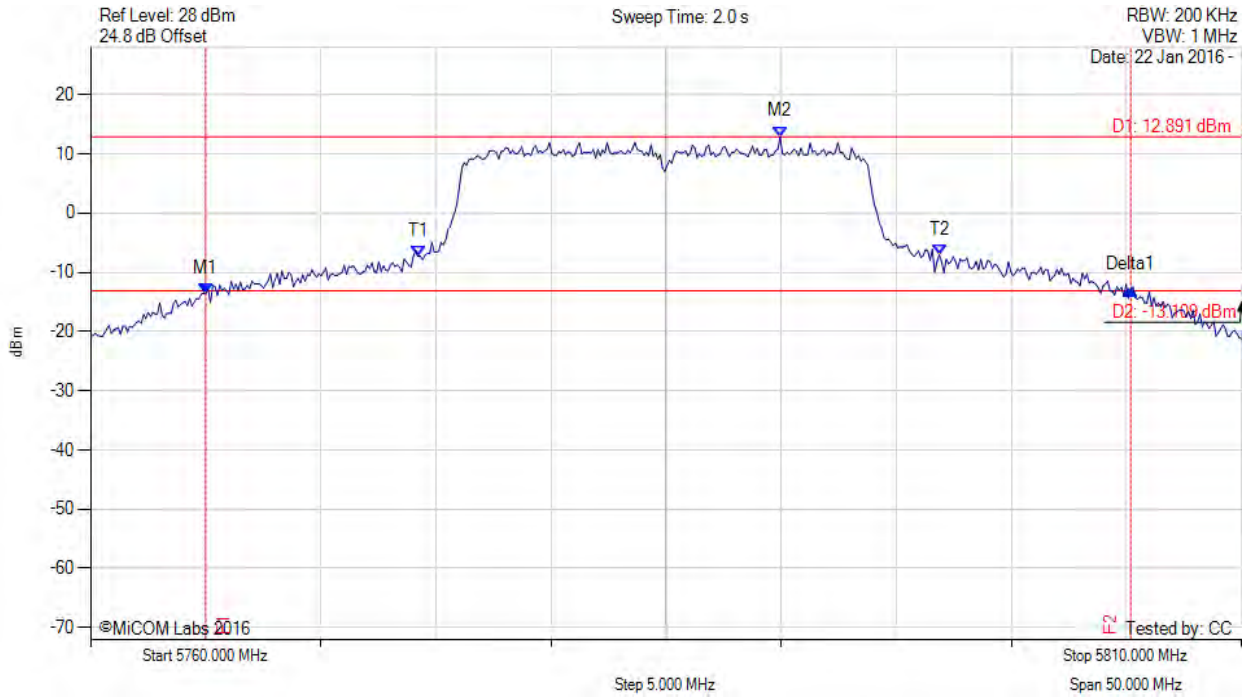
26 dB & 99% BANDWIDTH

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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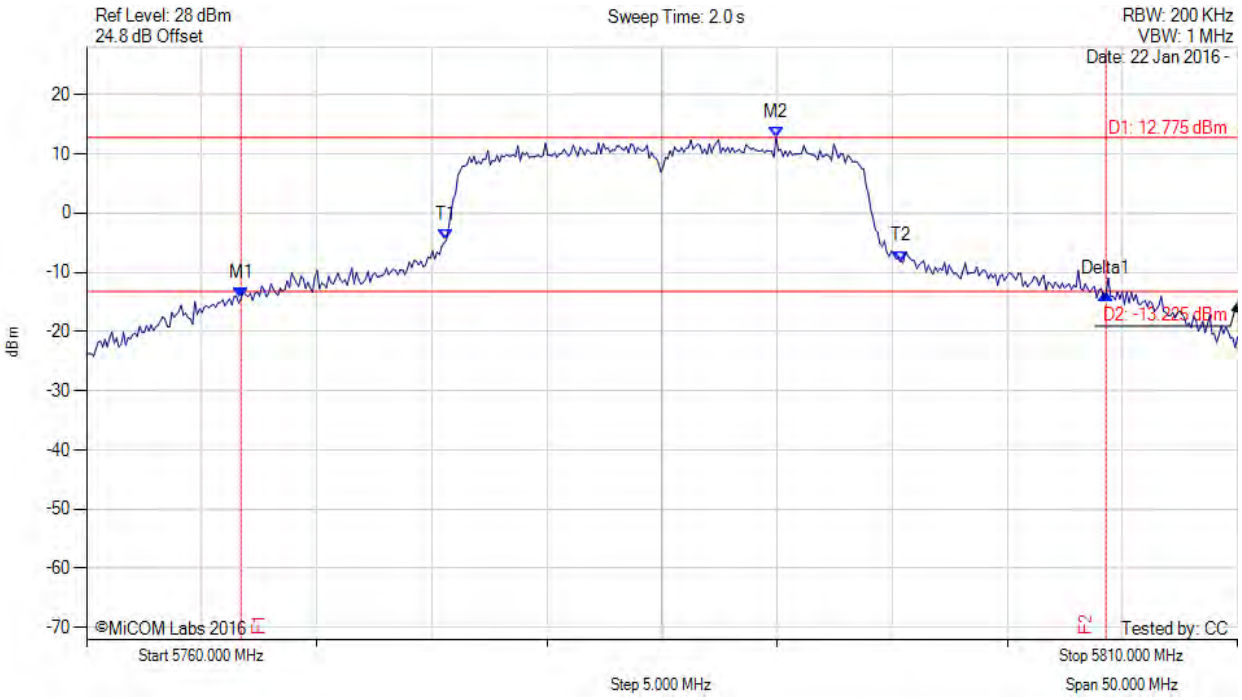
26 dB & 99% BANDWIDTH

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

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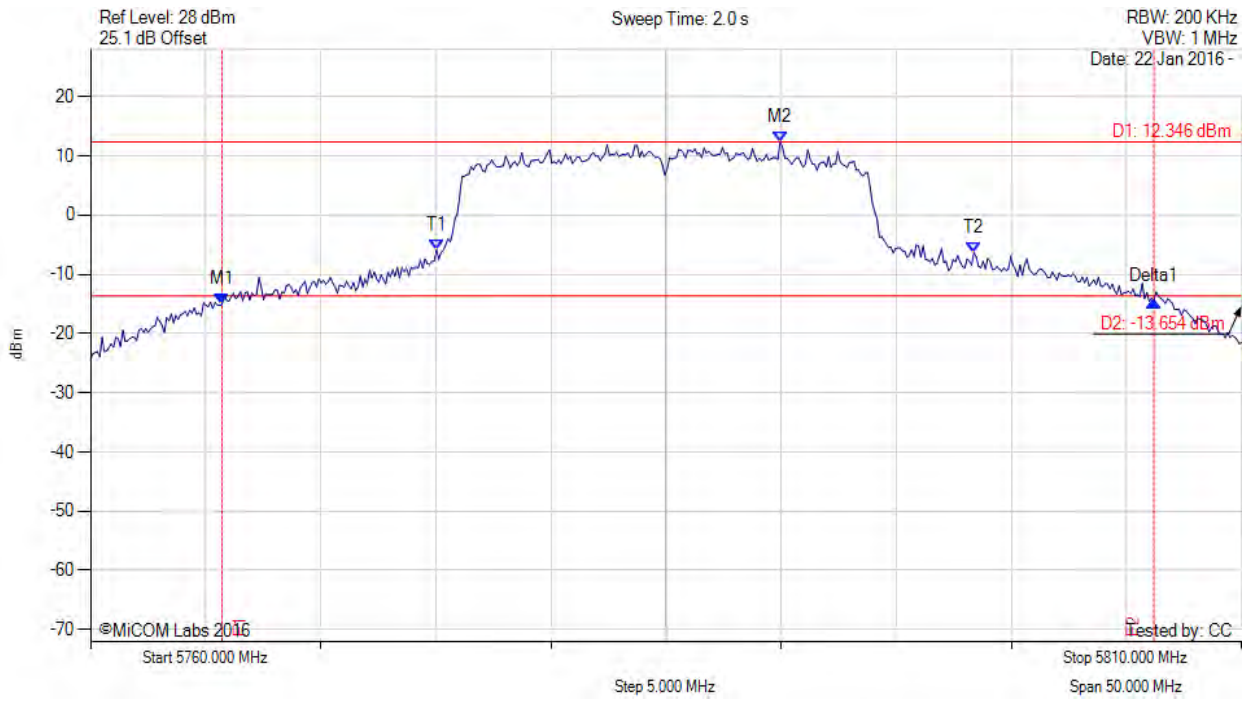
26 dB & 99% BANDWIDTH

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

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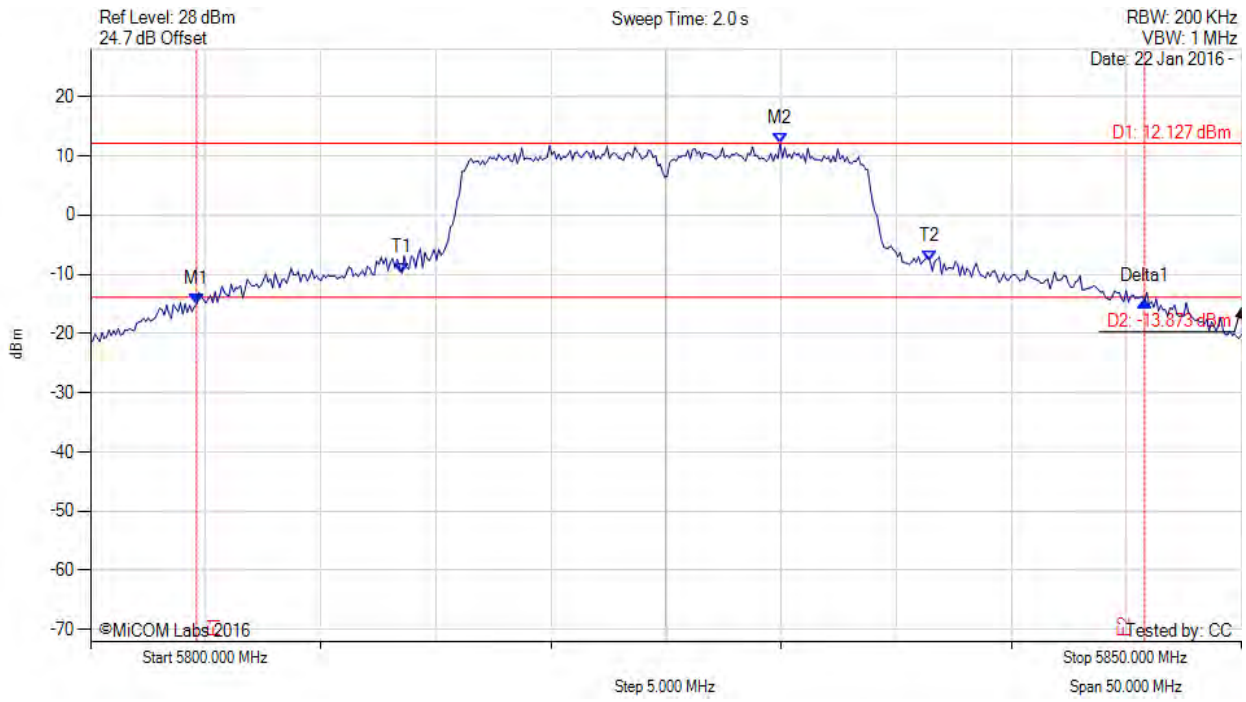
26 dB & 99% BANDWIDTH

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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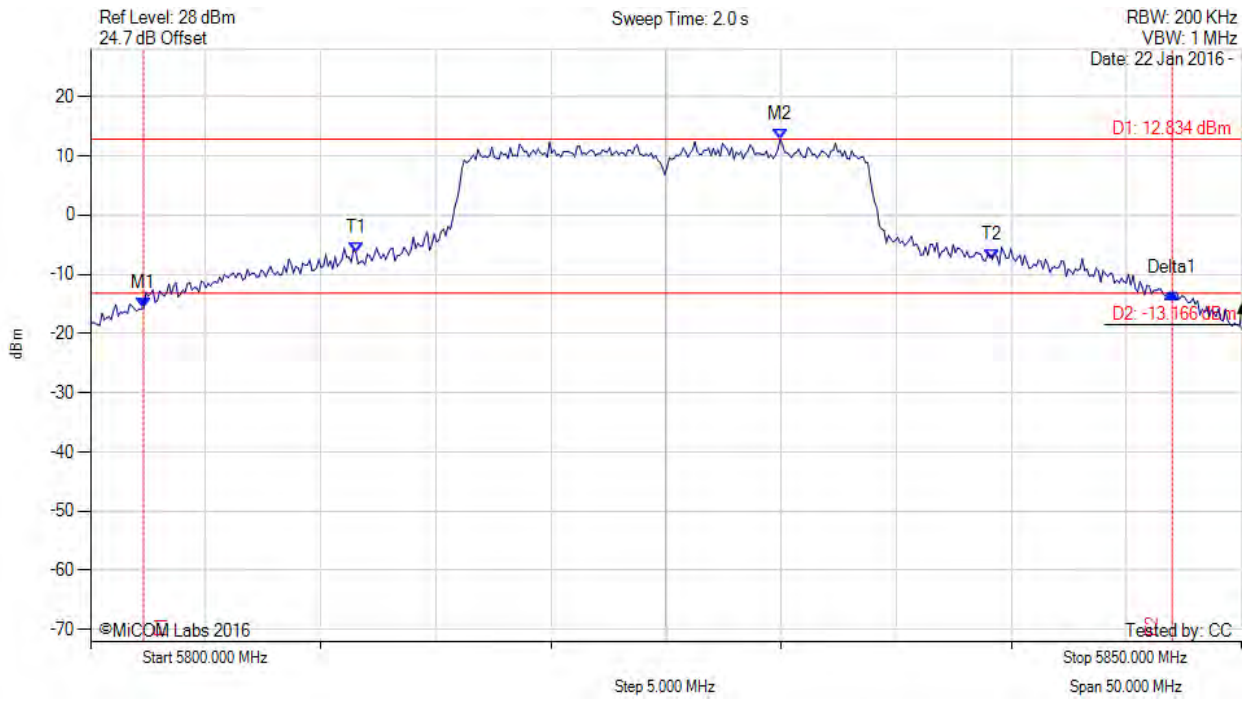
26 dB & 99% BANDWIDTH

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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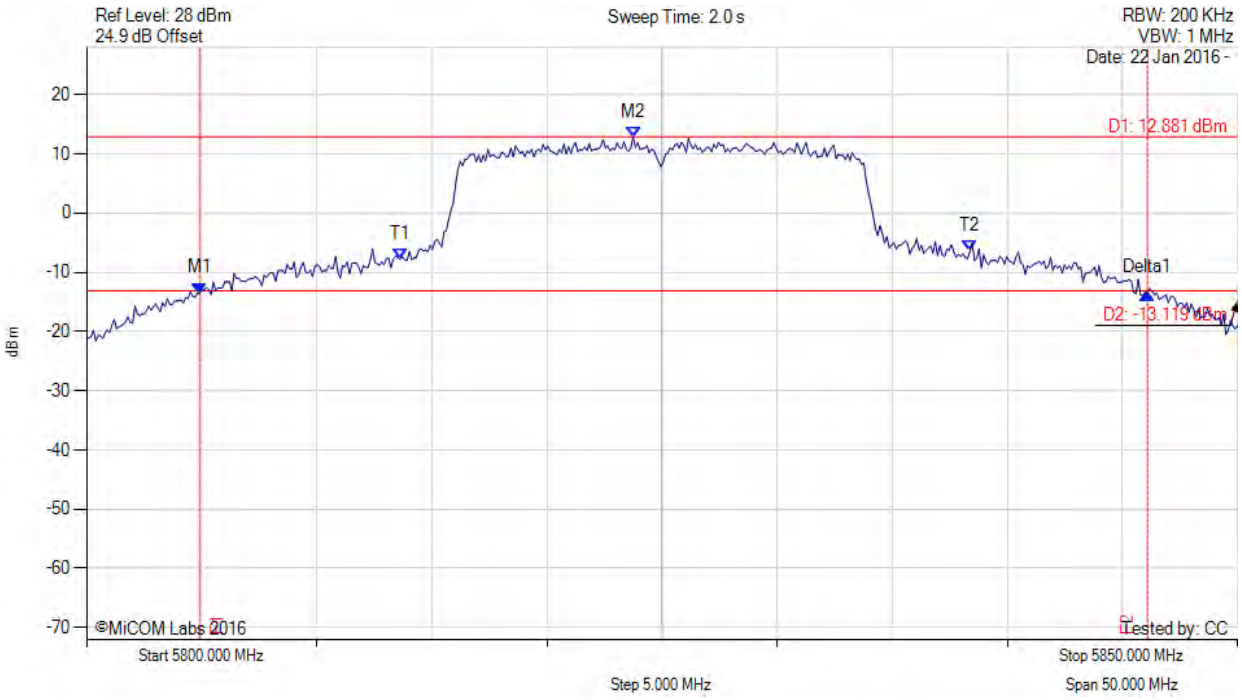
26 dB & 99% BANDWIDTH

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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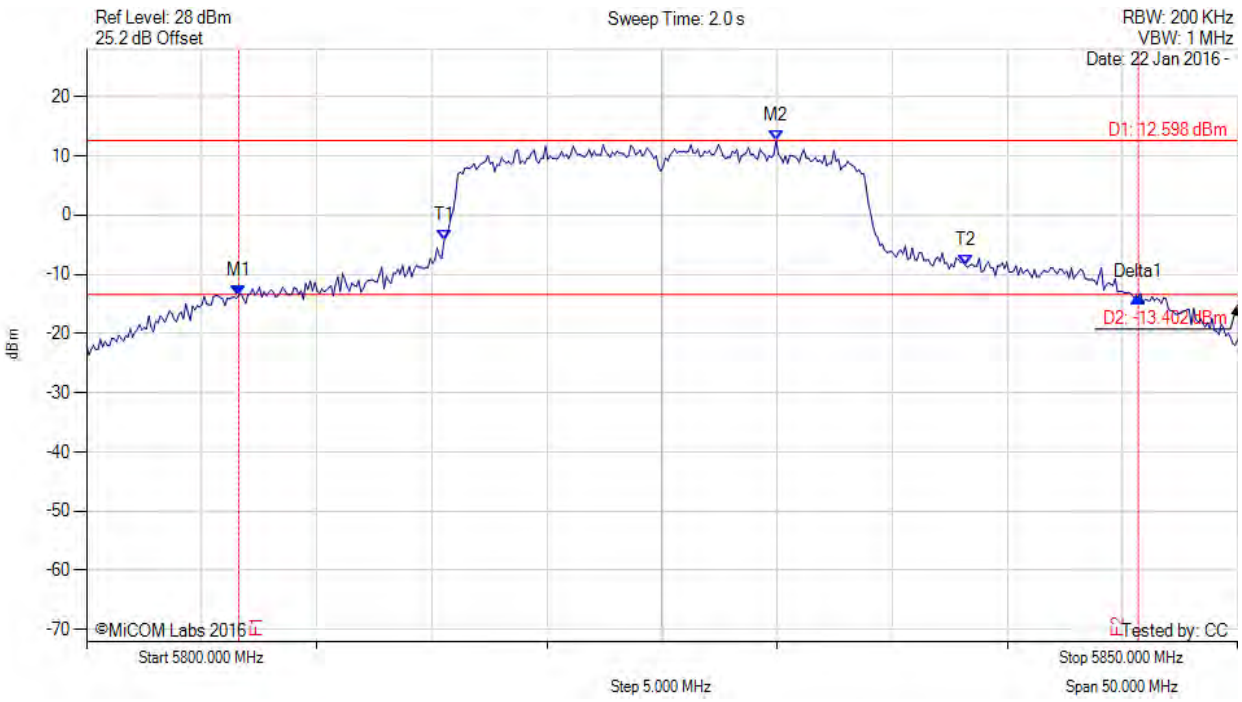
26 dB & 99% BANDWIDTH

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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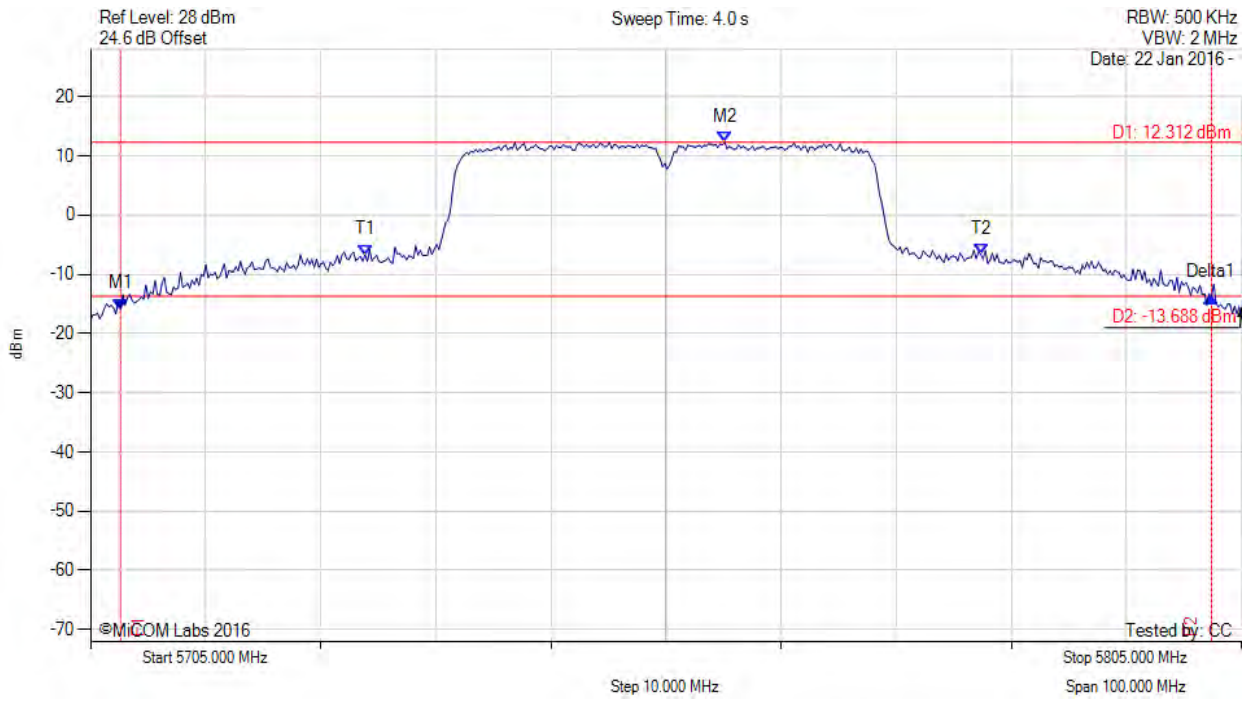
26 dB & 99% BANDWIDTH

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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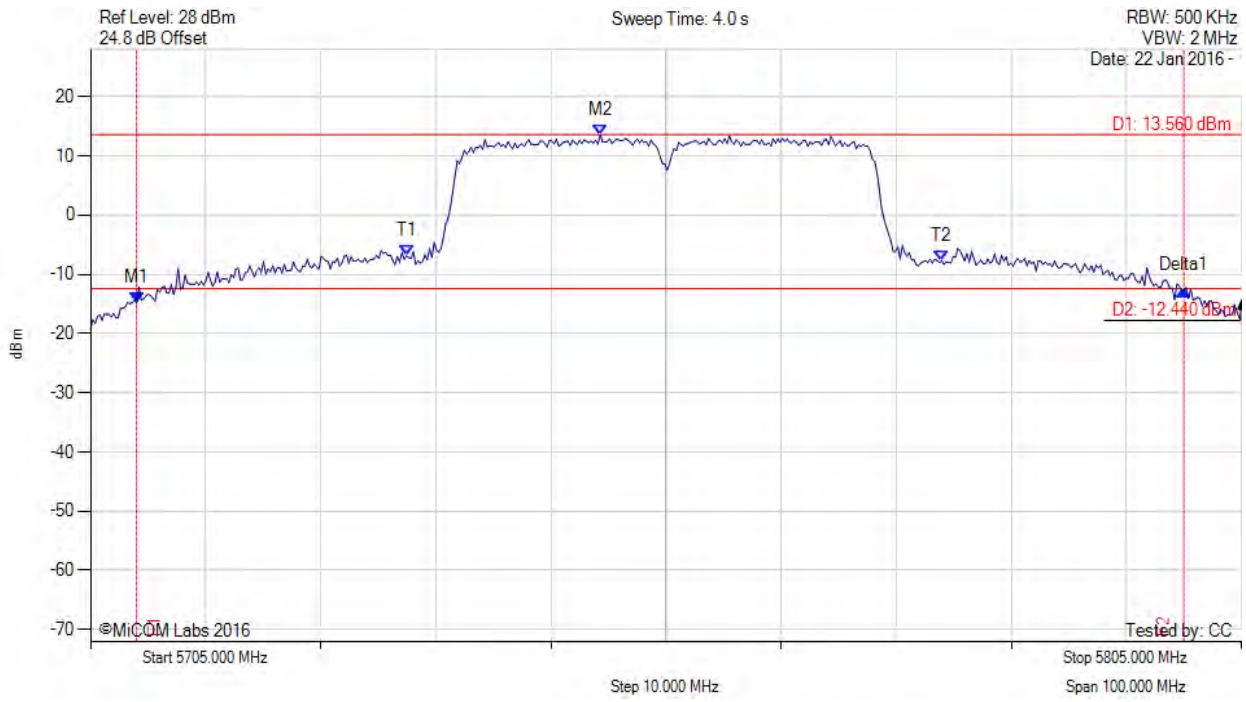
26 dB & 99% BANDWIDTH

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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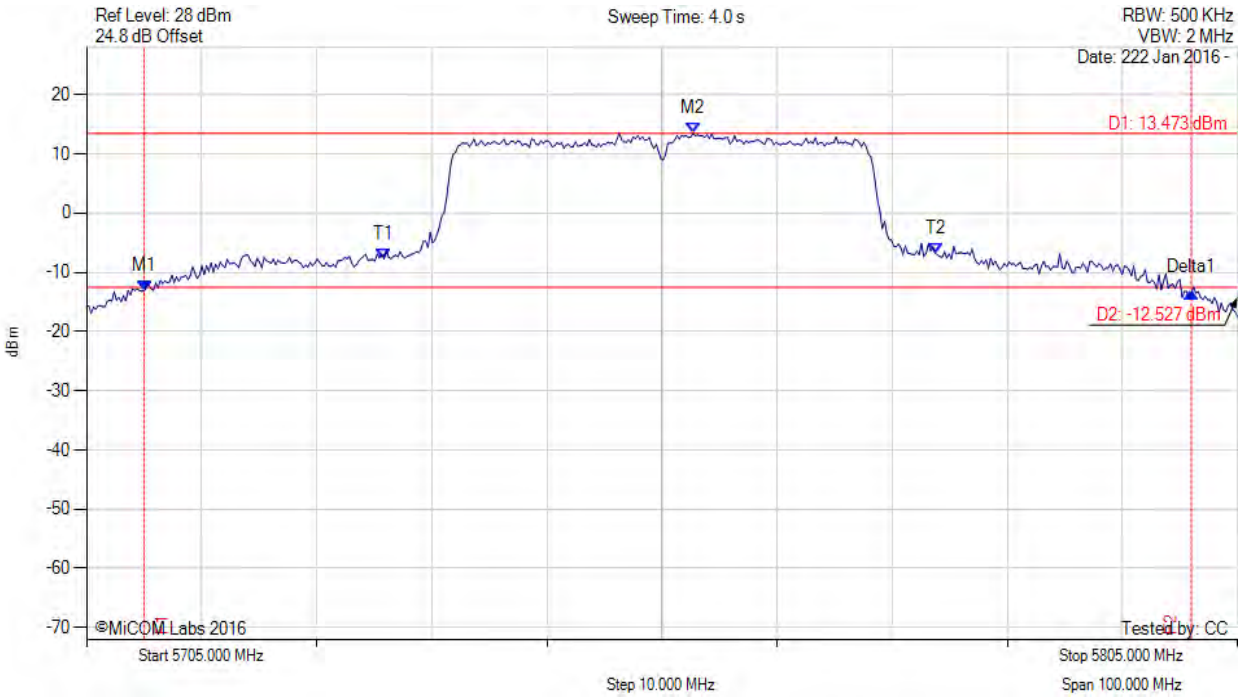
26 dB & 99% BANDWIDTH

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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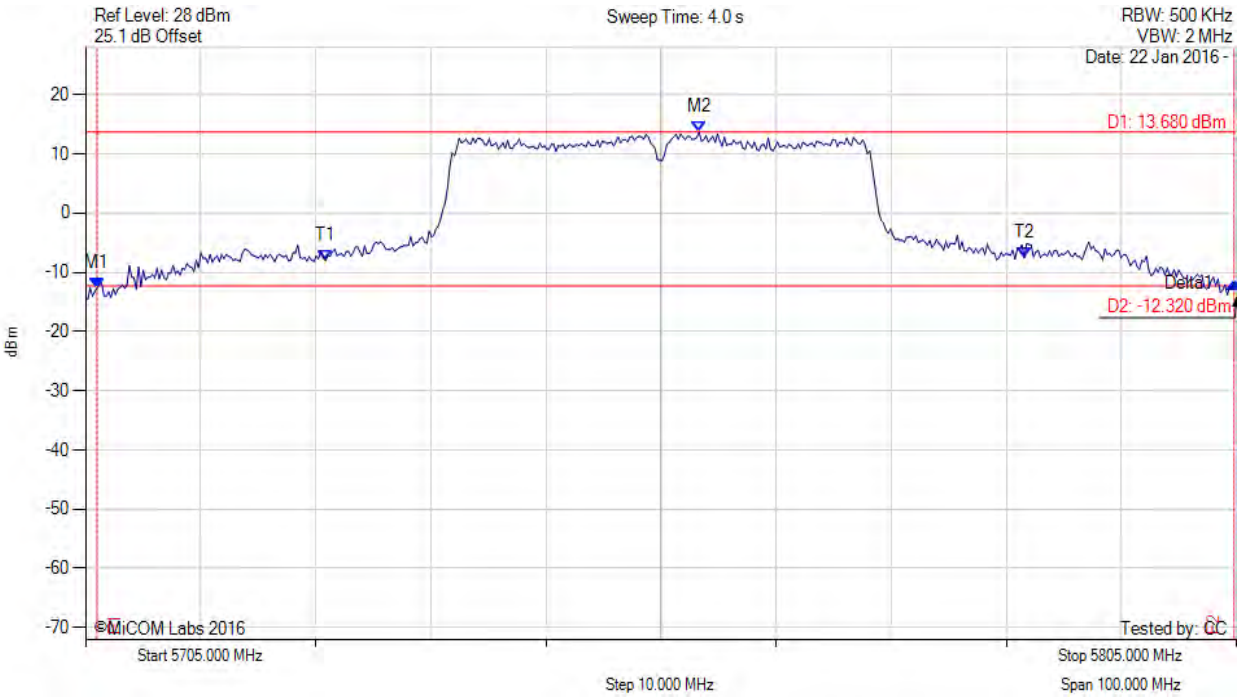
26 dB & 99% BANDWIDTH

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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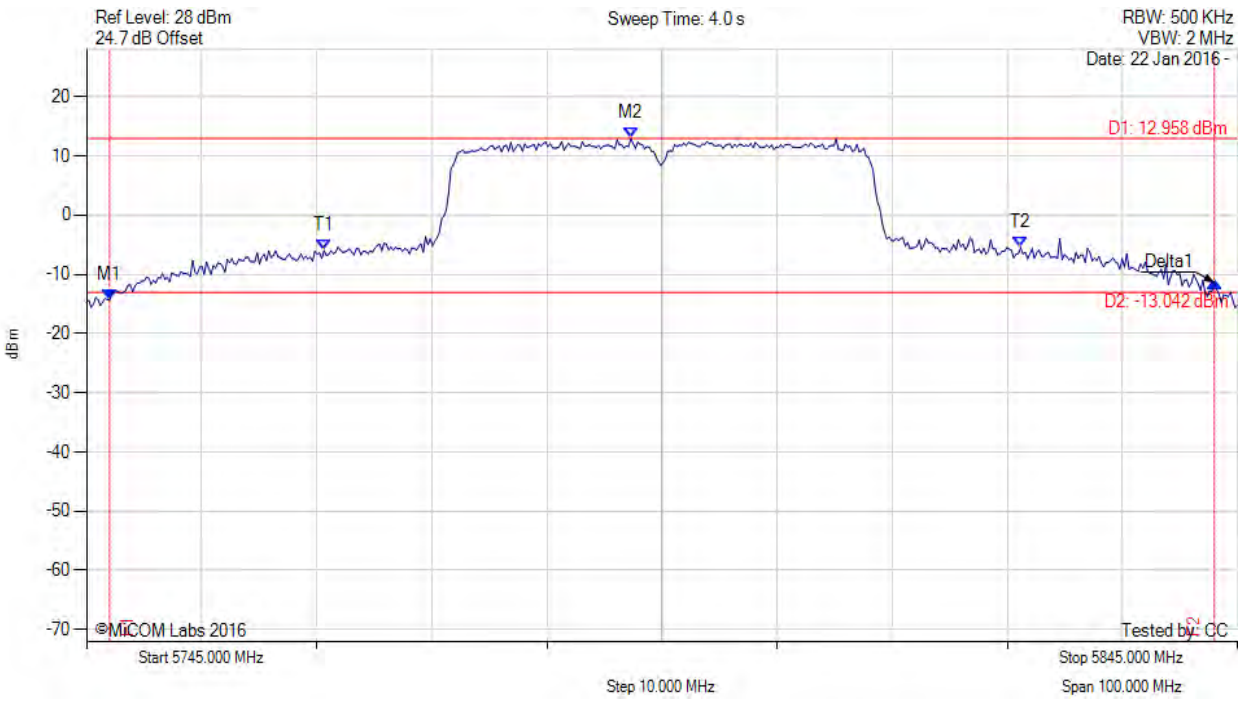
26 dB & 99% BANDWIDTH

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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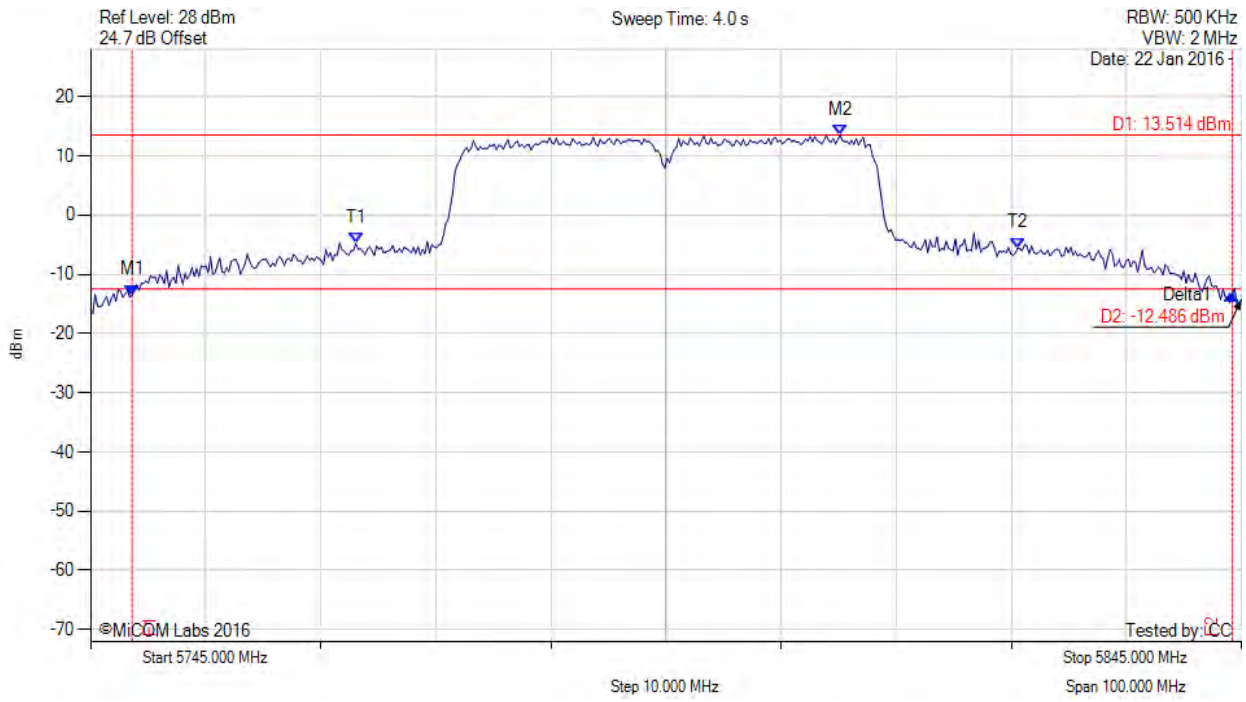
26 dB & 99% BANDWIDTH

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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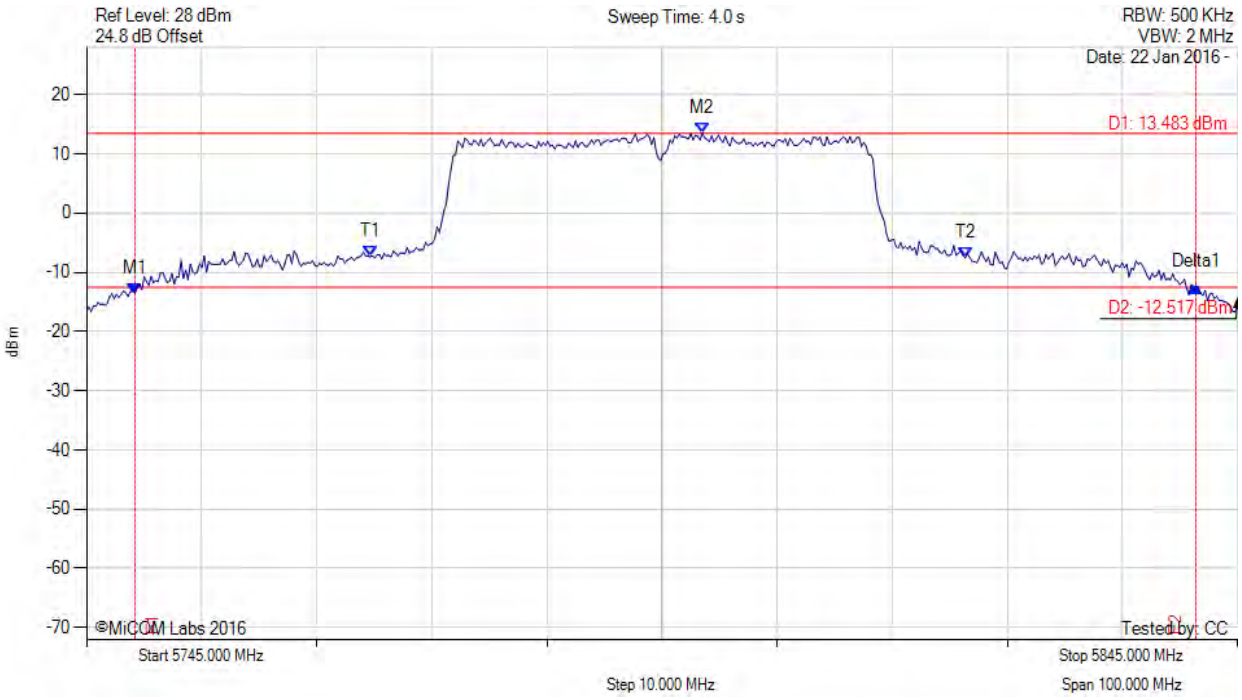
26 dB & 99% BANDWIDTH

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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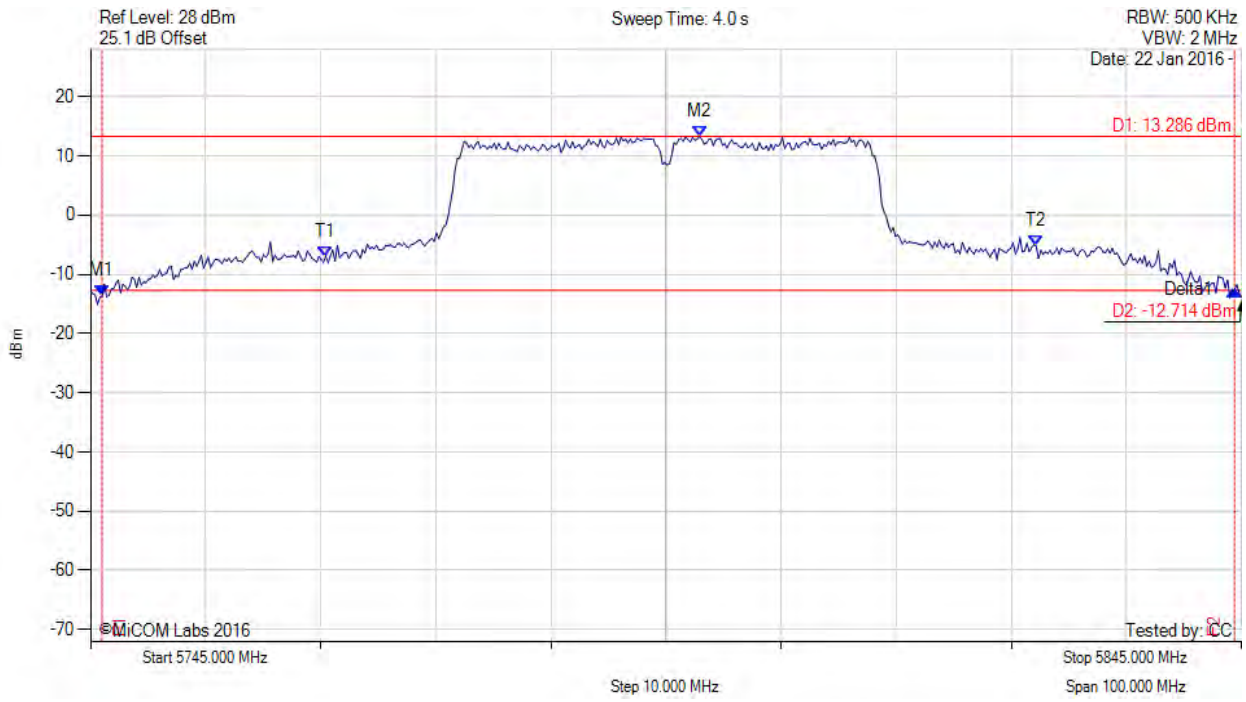
26 dB & 99% BANDWIDTH

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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