



Title: Aruba Networks APIN0214, APIN0215
To: FCC 47 CFR Part 15.407 & IC RSS-210
Serial #: ARUB179-U8 Rev A
Issue Date: 19th August 2014
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Asset #	Instrument	Manufacturer	Part #	Serial #	Calibration Due Date
399	Horn Antenna 1-18G	ETS	3117	00154575	10 Oct '14
405	Power Supply 0 -60 Vdc	Agilent	6654A	MY4001826	N/A
406	Preamplifier 1-18 GHz	MiCOM Labs		0406	30 May '15
411	Mast/Turntable Control	Sunol Sciences	SC98V	060199-1D	N/A
413	Mast Controller	Sunol Sciences	TWR95-4	030801-3	N/A
415	Turntable Controller	Sunol Sciences		0415	N/A
416	Gigabit Ethernet Filter	ETS	260366	0416	N/A
502	EMC Test Software	EMISoft	Vasona	5.0051	N/A
503	RF Conducted Test Software	National Instruments	Labview	Version 8.2	N/A
RF#1SMA #SA	SMA Cable	Flexco	--	--	20 th Dec '14
RF#1SMA #1	SMA Cable	Flexco	--	--	20 th Dec '14
RF#1SMA #2	SMA Cable	Flexco	--	--	20 th Dec '14
RF#1SMA #3	SMA Cable	Flexco	--	--	20 th Dec '14
RF#1SMA #4	SMA Cable	Flexco	--	--	20 th Dec '14

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APPENDIX

A. SUPPORTING INFORMATION

A.1. CONDUCTED TEST PLOTS

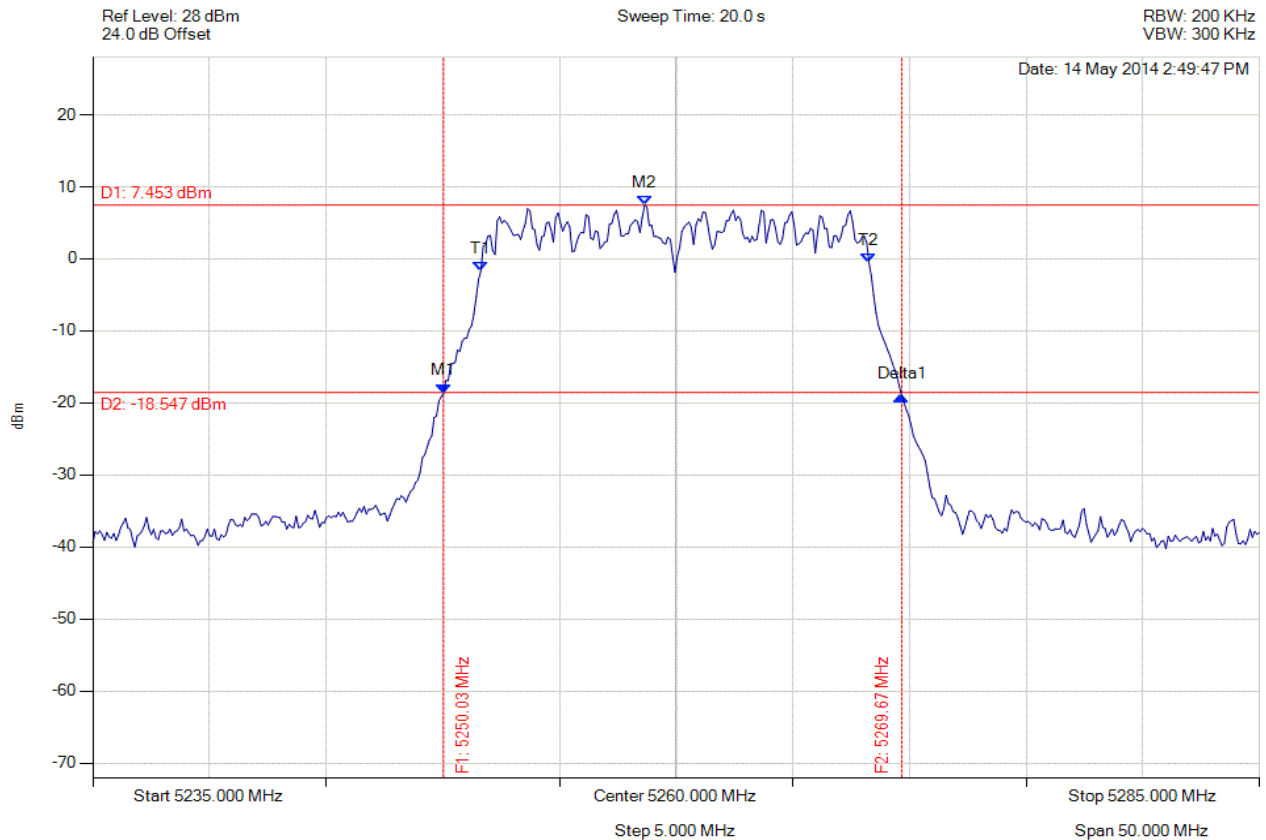
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A.1.1. 26 dB & 99% Bandwidth



26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



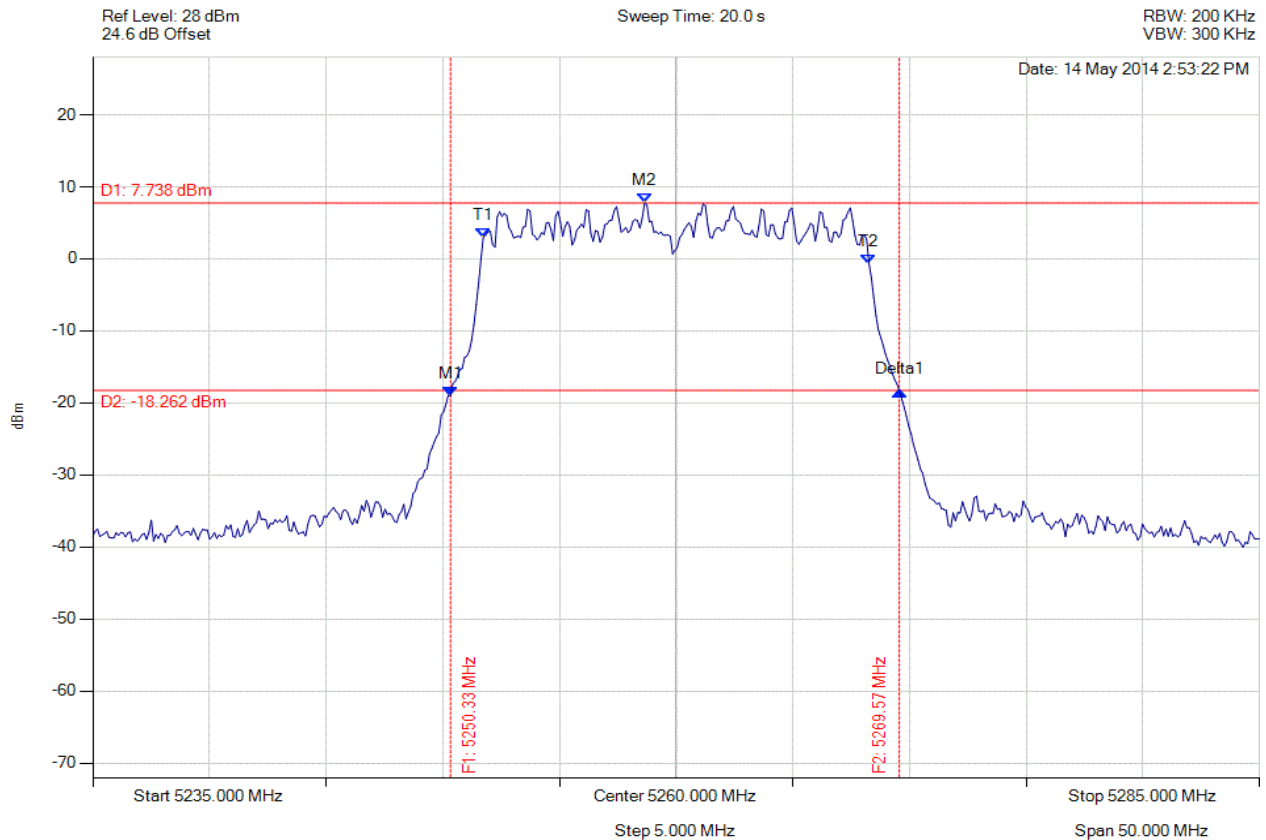
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.030 MHz : -18.628 dBm M2 : 5258.647 MHz : 7.453 dBm Delta1 : 19.639 MHz : -0.382 dB T1 : 5251.633 MHz : -1.636 dBm T2 : 5268.267 MHz : -0.548 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.639 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



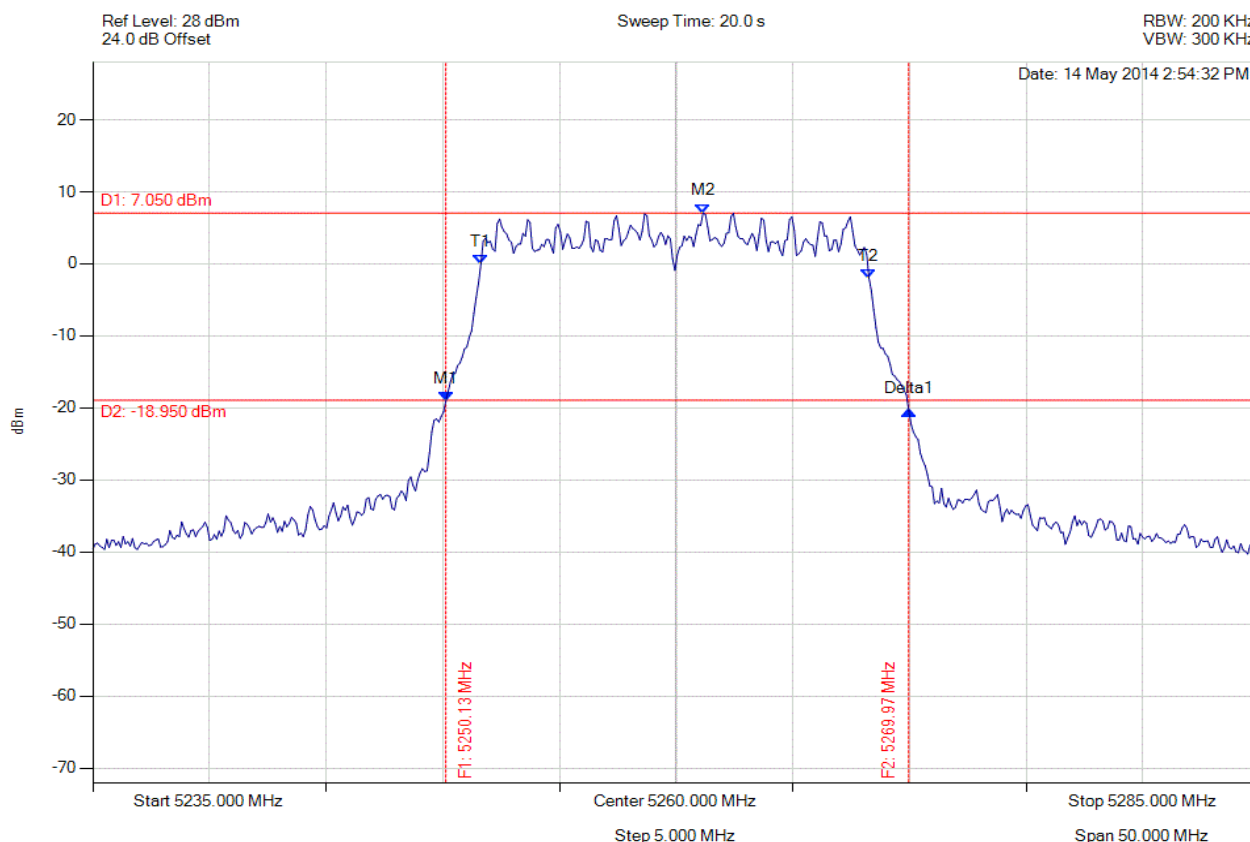
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.331 MHz : -19.010 dBm M2 : 5258.647 MHz : 7.738 dBm Delta1 : 19.238 MHz : 0.649 dB T1 : 5251.733 MHz : 2.944 dBm T2 : 5268.267 MHz : -0.653 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

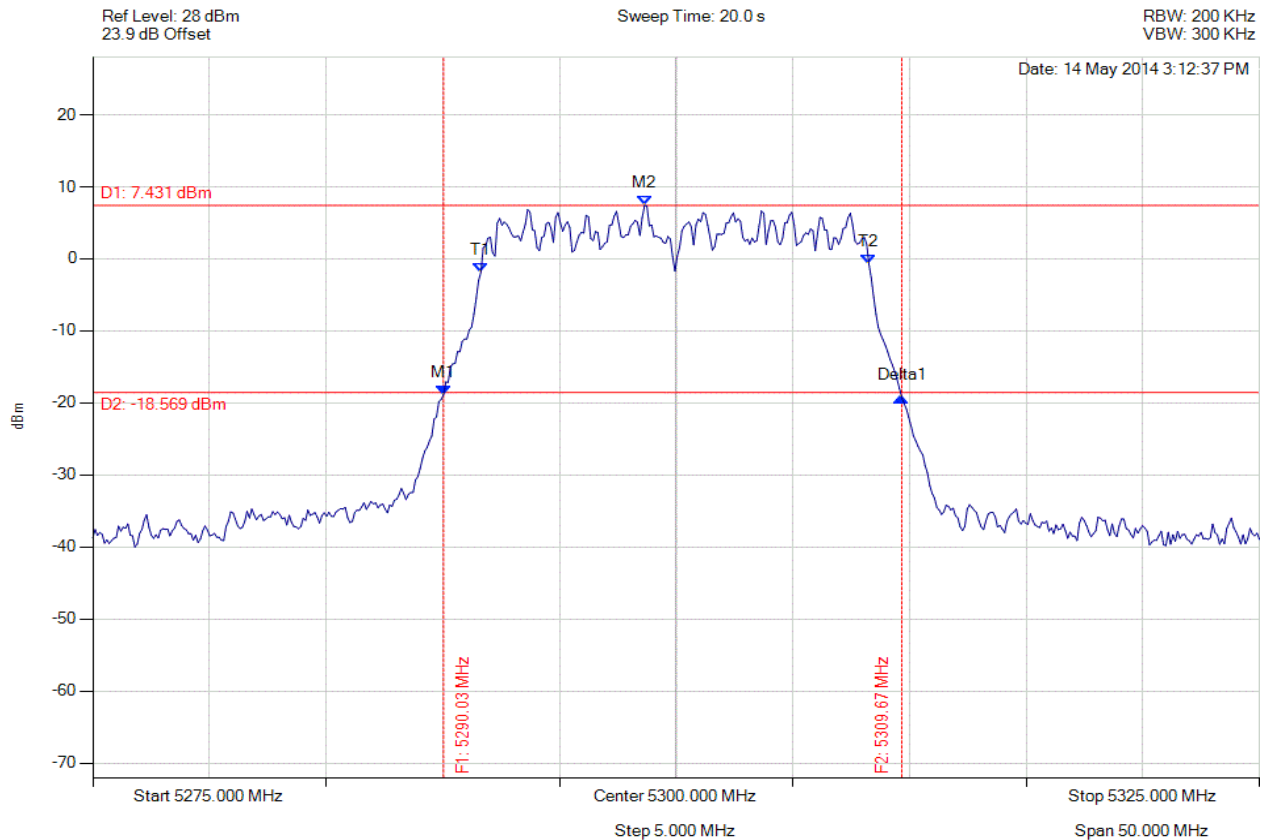


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.130 MHz : -19.004 dBm M2 : 5261.152 MHz : 7.050 dBm Delta1 : 19.840 MHz : -1.395 dB T1 : 5251.633 MHz : -0.015 dBm T2 : 5268.267 MHz : -1.975 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

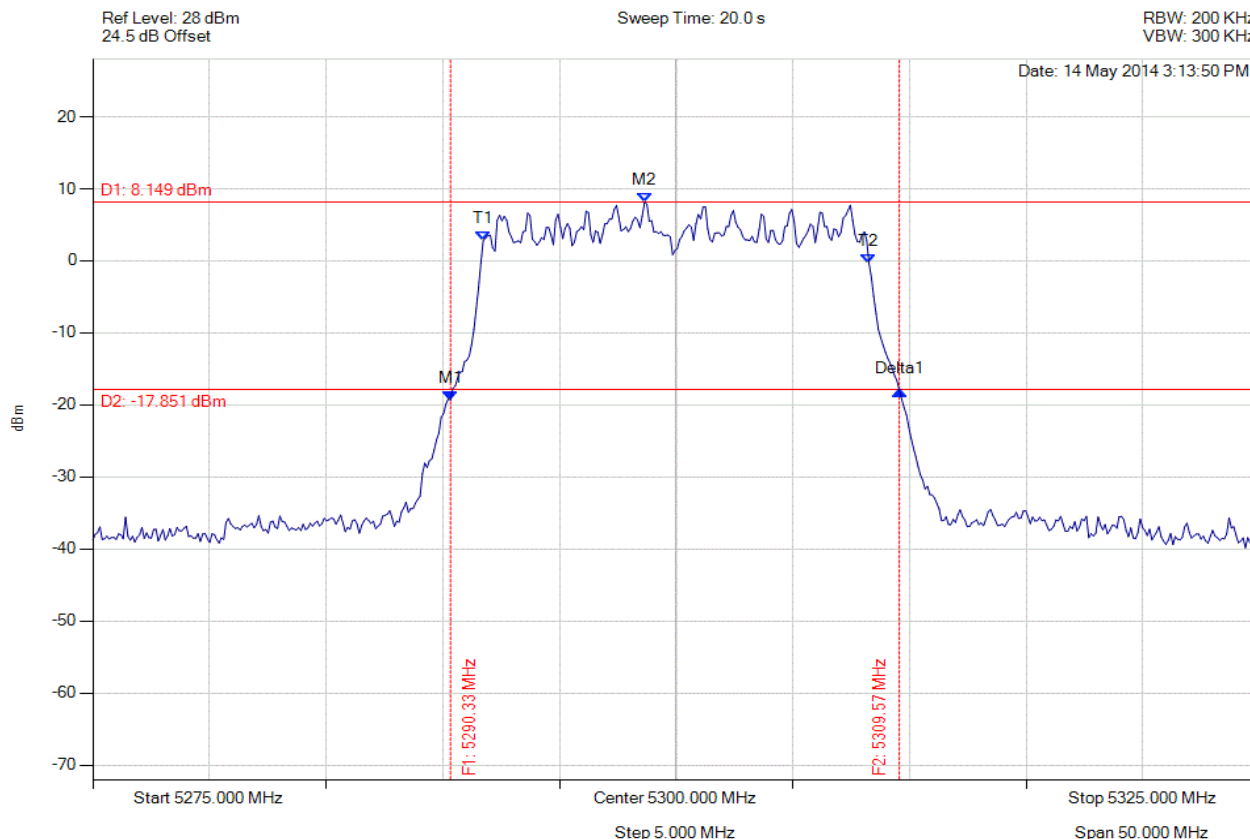


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.030 MHz : -18.849 dBm M2 : 5298.647 MHz : 7.431 dBm Delta1 : 19.639 MHz : -0.311 dB T1 : 5291.633 MHz : -1.829 dBm T2 : 5308.267 MHz : -0.773 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.639 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

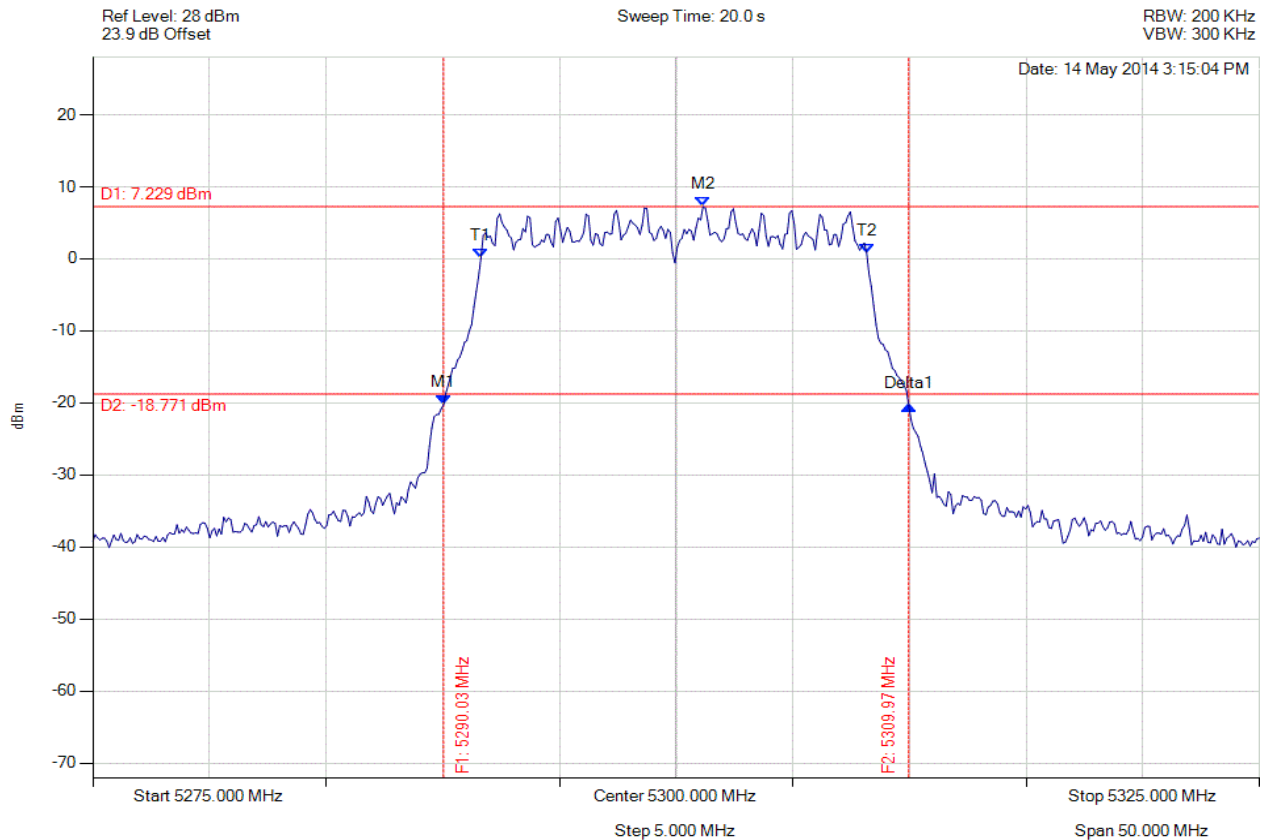


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.331 MHz : -19.325 dBm M2 : 5298.647 MHz : 8.149 dBm Delta1 : 19.238 MHz : 1.322 dB T1 : 5291.733 MHz : 2.794 dBm T2 : 5308.267 MHz : -0.306 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



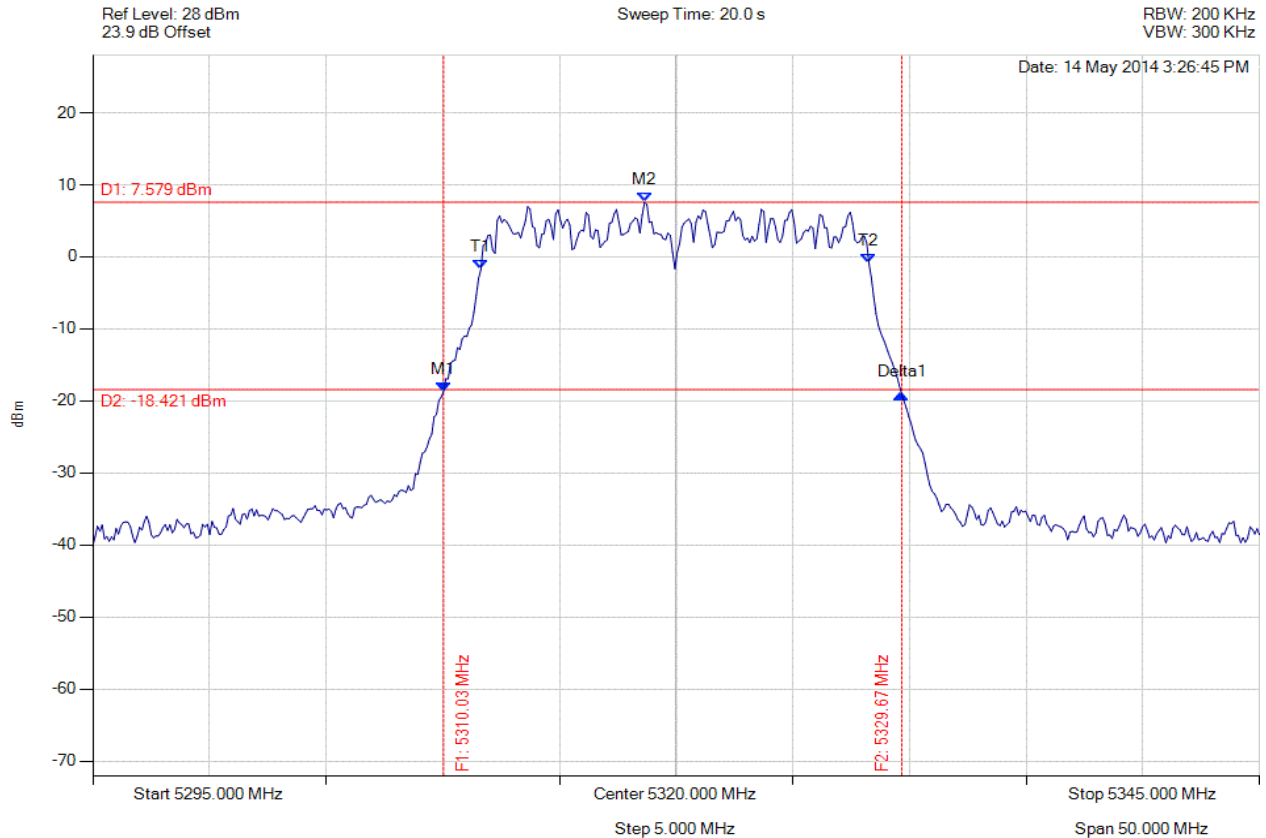
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.030 MHz : -20.277 dBm M2 : 5301.152 MHz : 7.229 dBm Delta1 : 19.940 MHz : -0.150 dB T1 : 5291.633 MHz : 0.089 dBm T2 : 5308.166 MHz : 0.795 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5310.030 MHz : -18.681 dBm M2 : 5318.647 MHz : 7.579 dBm Delta1 : 19.639 MHz : -0.441 dB T1 : 5311.633 MHz : -1.752 dBm T2 : 5328.267 MHz : -0.922 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.639 MHz Measured 99% Bandwidth: 16.633 MHz

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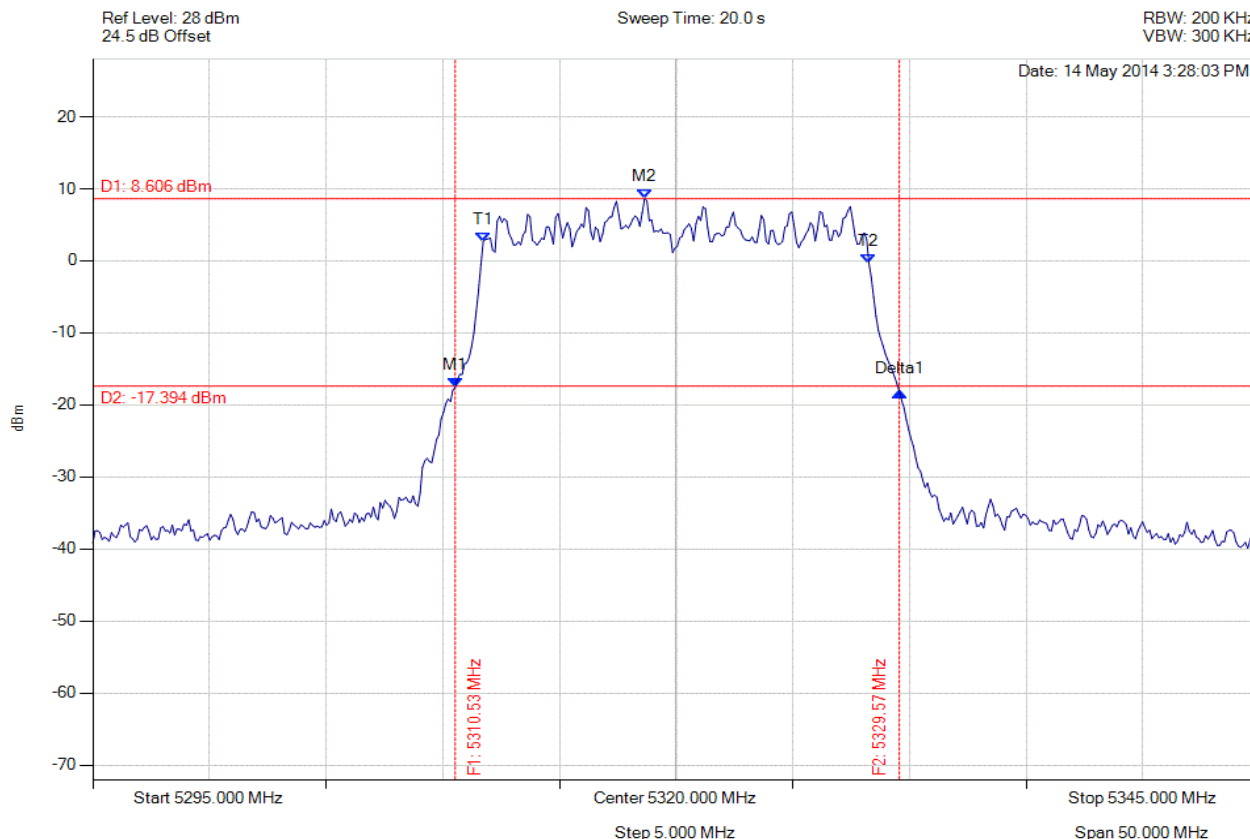


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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



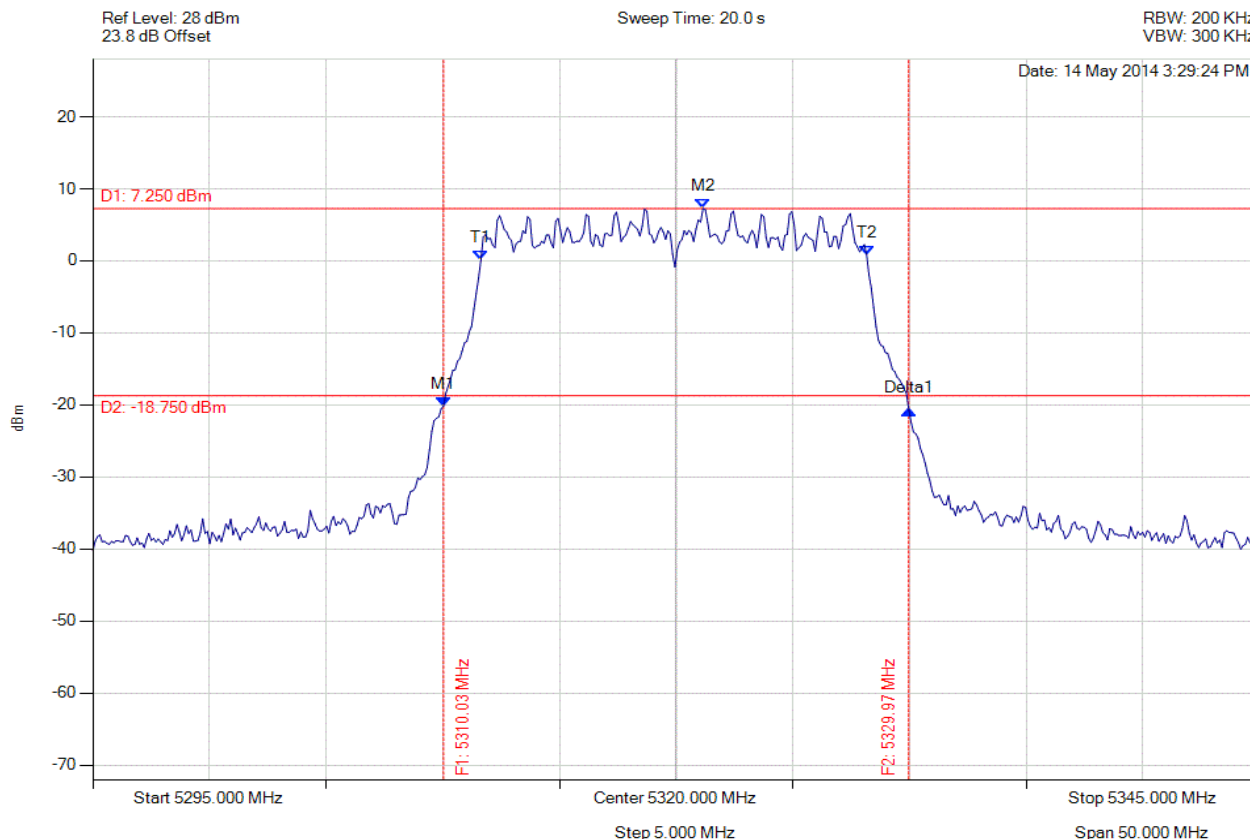
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5310.531 MHz : -17.515 dBm M2 : 5318.647 MHz : 8.606 dBm Delta1 : 19.038 MHz : -0.614 dB T1 : 5311.733 MHz : 2.694 dBm T2 : 5328.267 MHz : -0.375 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.038 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

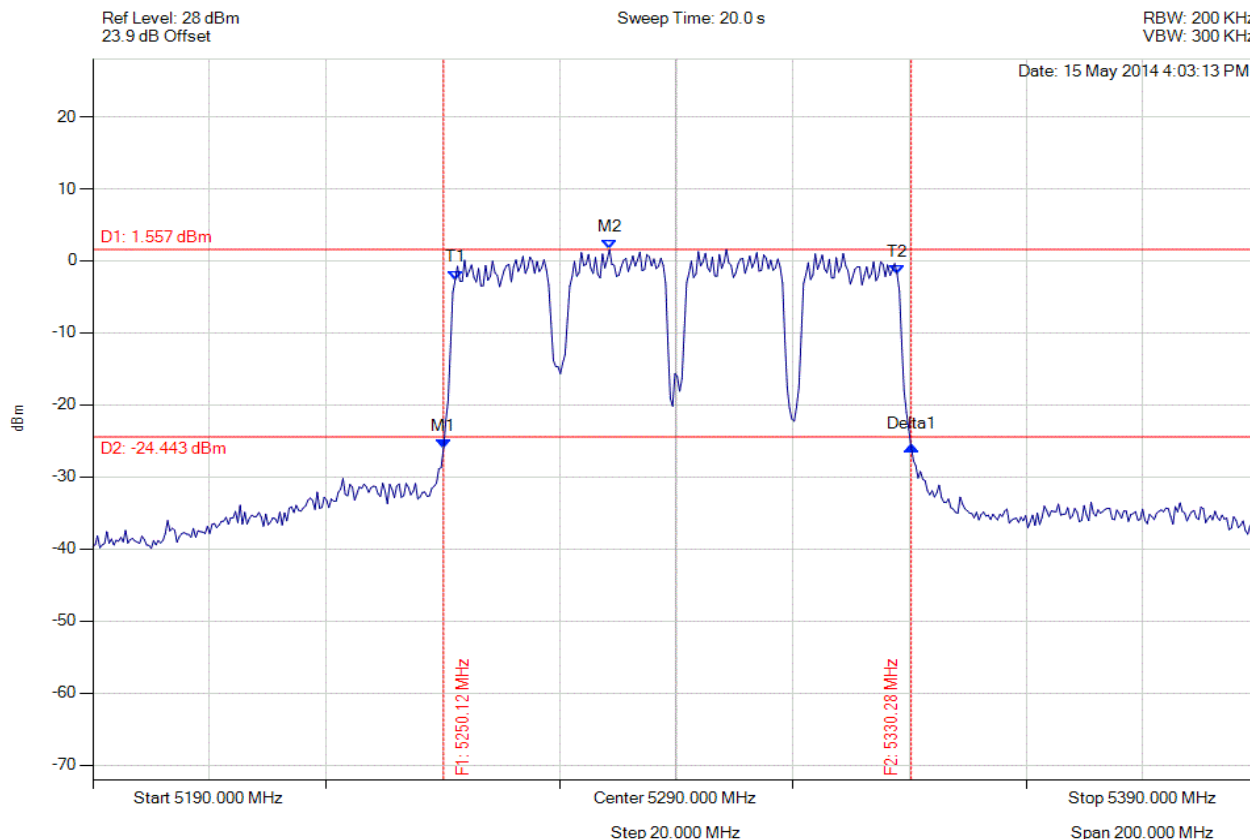


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5310.030 MHz : -20.145 dBm M2 : 5321.152 MHz : 7.250 dBm Delta1 : 19.940 MHz : -0.525 dB T1 : 5311.633 MHz : 0.101 dBm T2 : 5328.166 MHz : 0.780 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

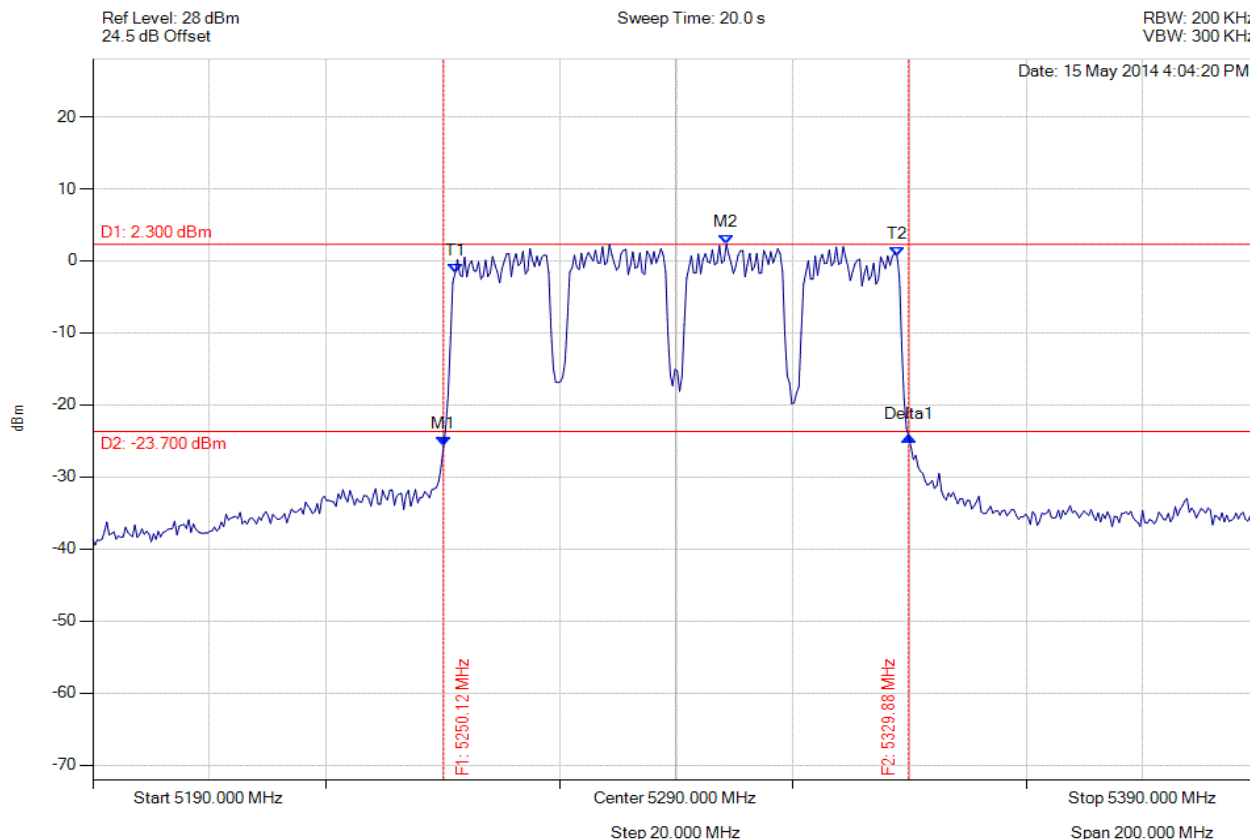


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.120 MHz : -26.010 dBm M2 : 5278.577 MHz : 1.557 dBm Delta1 : 80.160 MHz : 0.232 dB T1 : 5252.124 MHz : -2.626 dBm T2 : 5327.876 MHz : -1.807 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

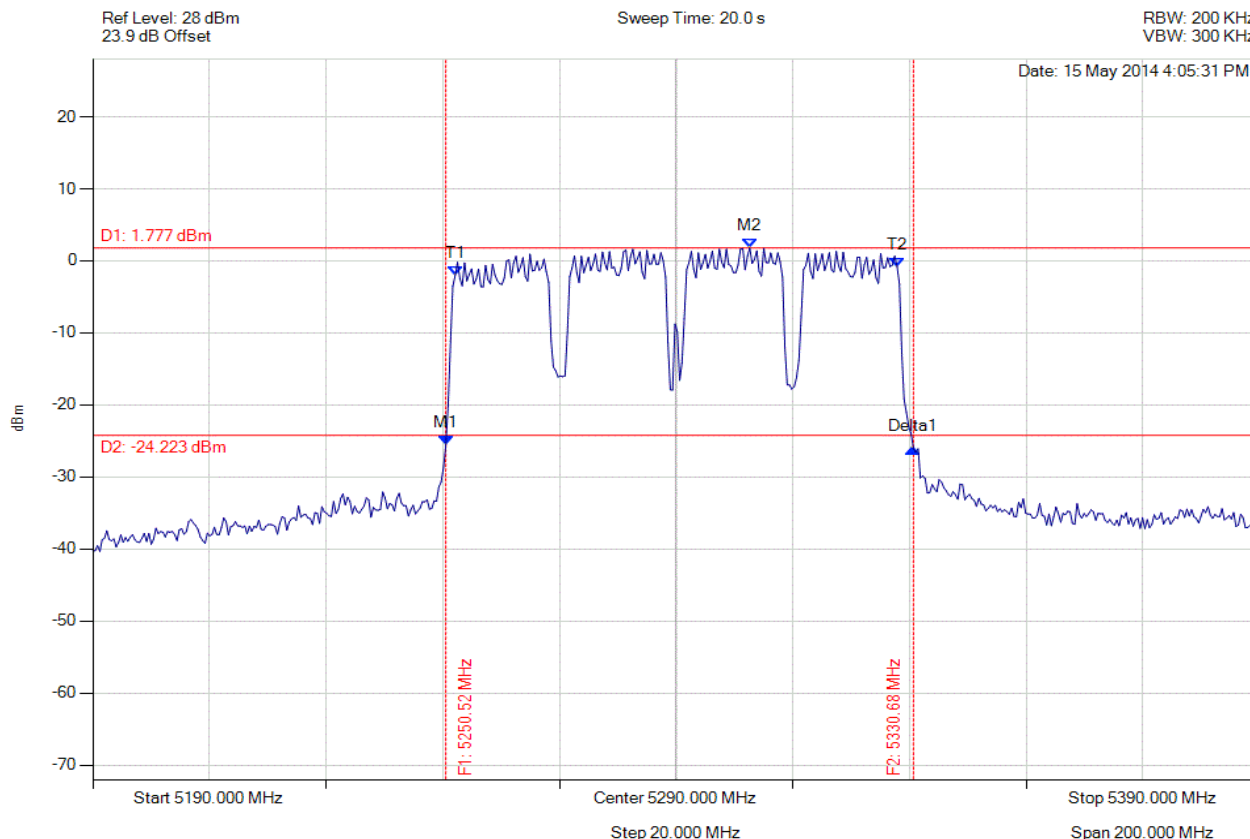


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.120 MHz : -25.780 dBm M2 : 5298.617 MHz : 2.300 dBm Delta1 : 79.760 MHz : 1.373 dB T1 : 5252.124 MHz : -1.674 dBm T2 : 5327.876 MHz : 0.612 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 79.760 MHz Measured 99% Bandwidth: 75.752 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

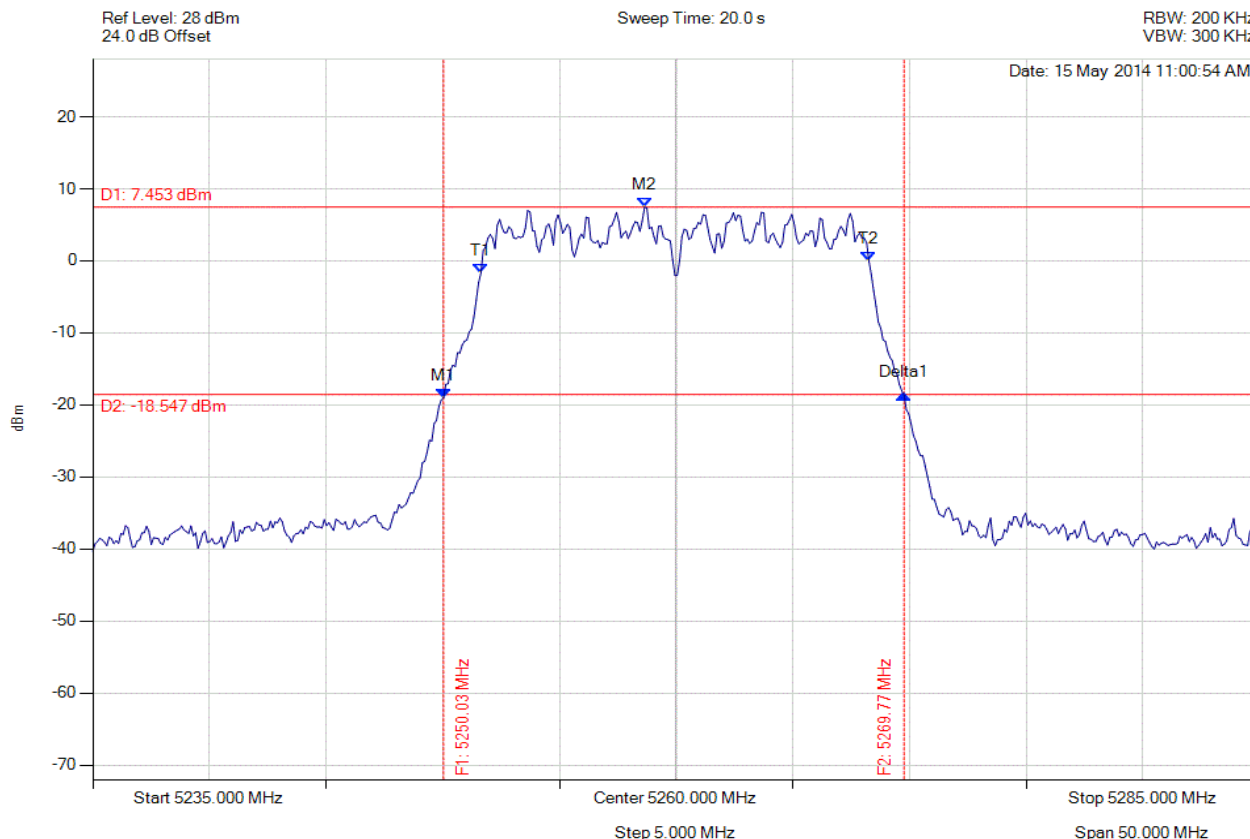


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.521 MHz : -25.502 dBm M2 : 5302.625 MHz : 1.777 dBm Delta1 : 80.160 MHz : -0.559 dB T1 : 5252.124 MHz : -2.022 dBm T2 : 5327.876 MHz : -0.808 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

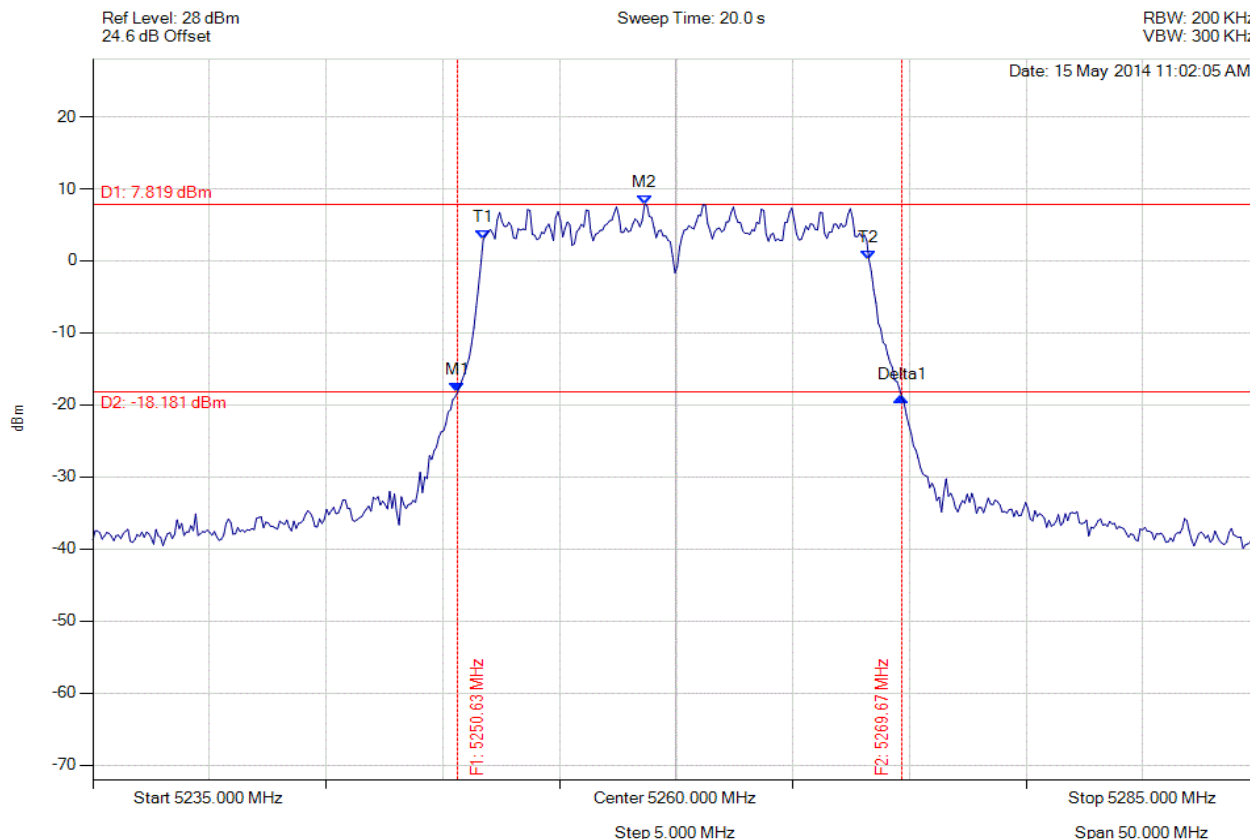


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.030 MHz : -19.026 dBm M2 : 5258.647 MHz : 7.453 dBm Delta1 : 19.739 MHz : 0.407 dB T1 : 5251.633 MHz : -1.691 dBm T2 : 5268.267 MHz : -0.100 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

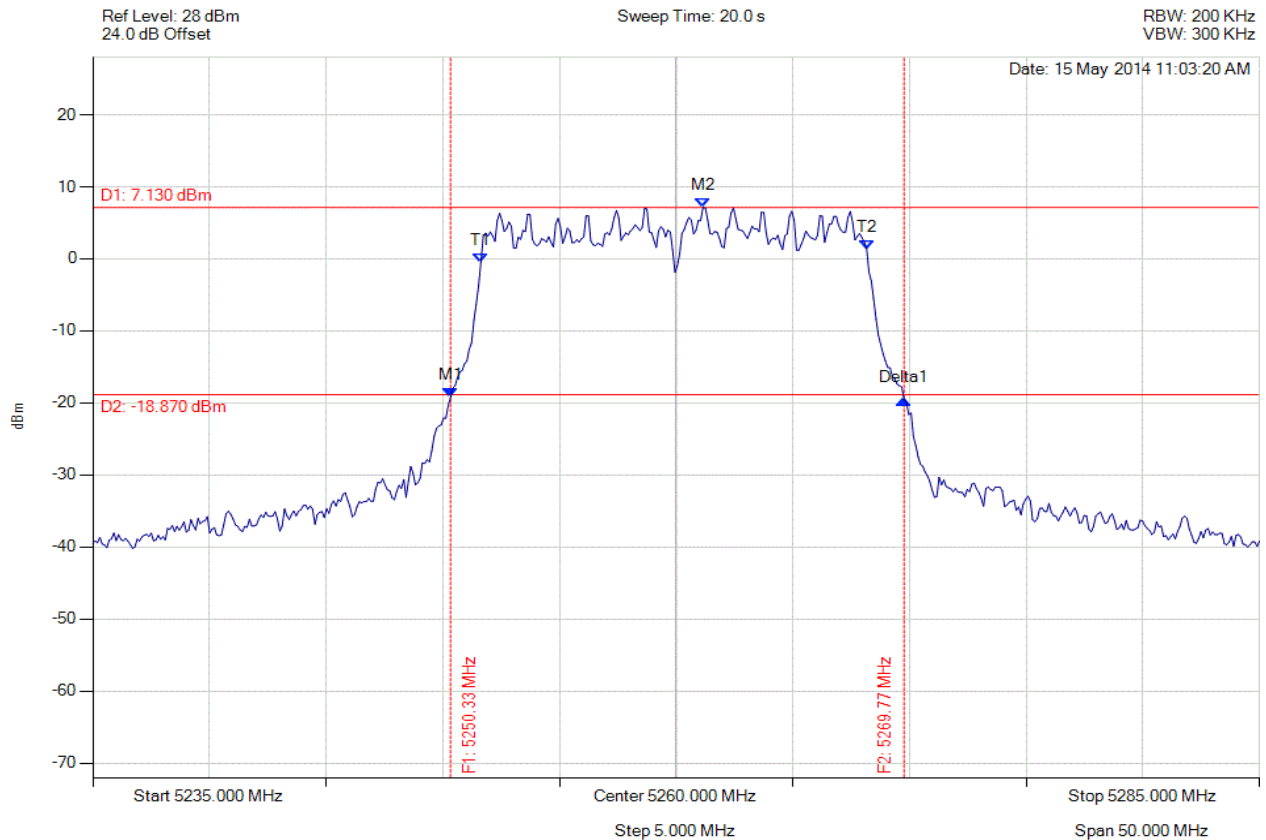


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.631 MHz : -18.258 dBm M2 : 5258.647 MHz : 7.819 dBm Delta1 : 19.038 MHz : -0.665 dB T1 : 5251.733 MHz : 2.950 dBm T2 : 5268.267 MHz : 0.158 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.038 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



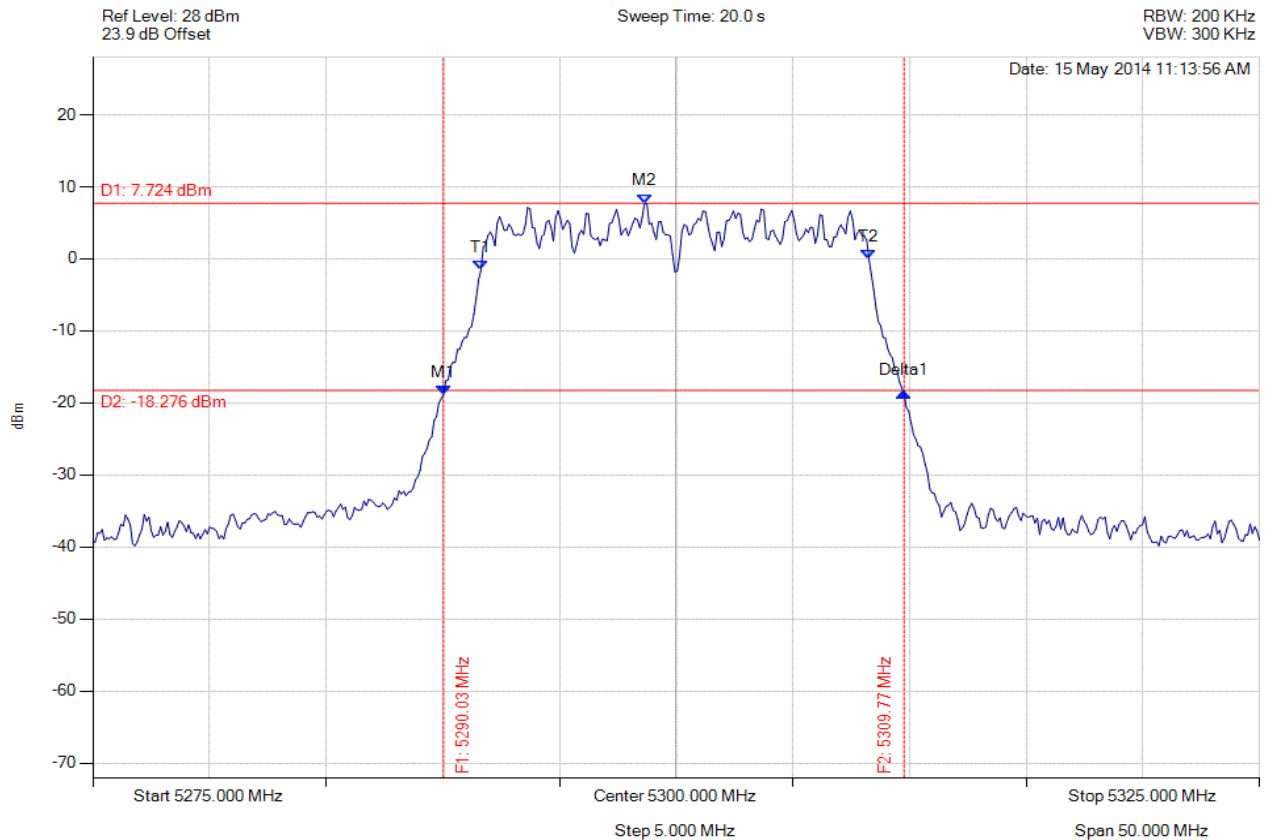
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.331 MHz : -19.289 dBm M2 : 5261.152 MHz : 7.130 dBm Delta1 : 19.439 MHz : -0.256 dB T1 : 5251.633 MHz : -0.474 dBm T2 : 5268.166 MHz : 1.368 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

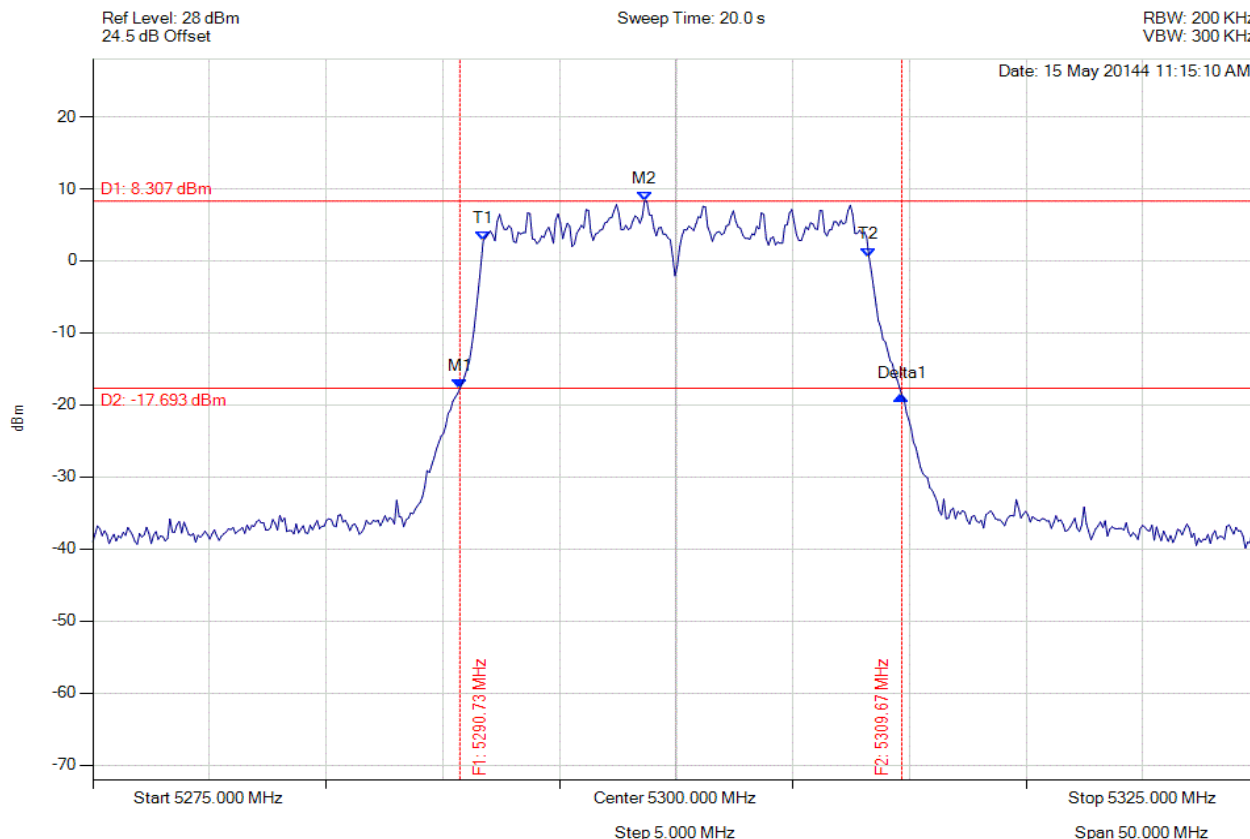


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.030 MHz : -18.823 dBm M2 : 5298.647 MHz : 7.724 dBm Delta1 : 19.739 MHz : 0.260 dB T1 : 5291.633 MHz : -1.601 dBm T2 : 5308.267 MHz : -0.068 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

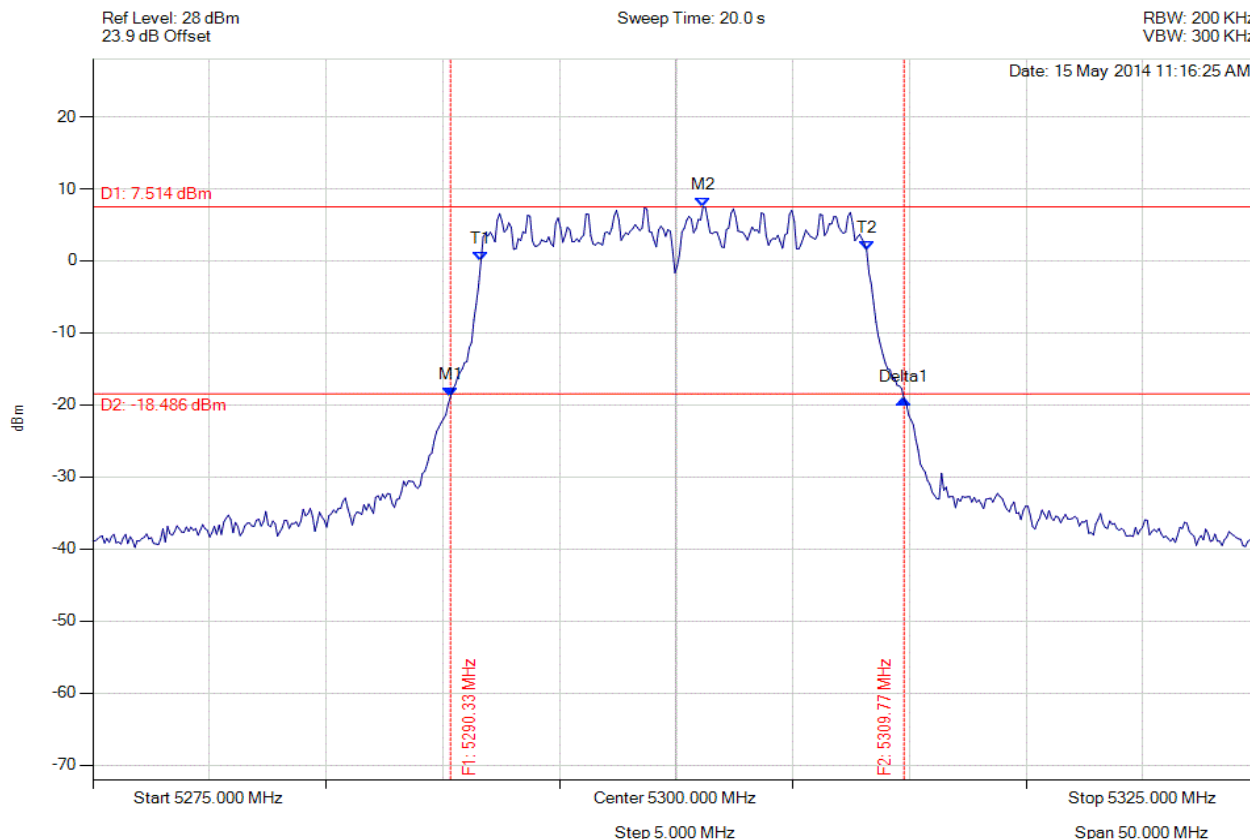


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.731 MHz : -17.731 dBm M2 : 5298.647 MHz : 8.307 dBm Delta1 : 18.938 MHz : -0.950 dB T1 : 5291.733 MHz : 2.794 dBm T2 : 5308.267 MHz : 0.551 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 18.938 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

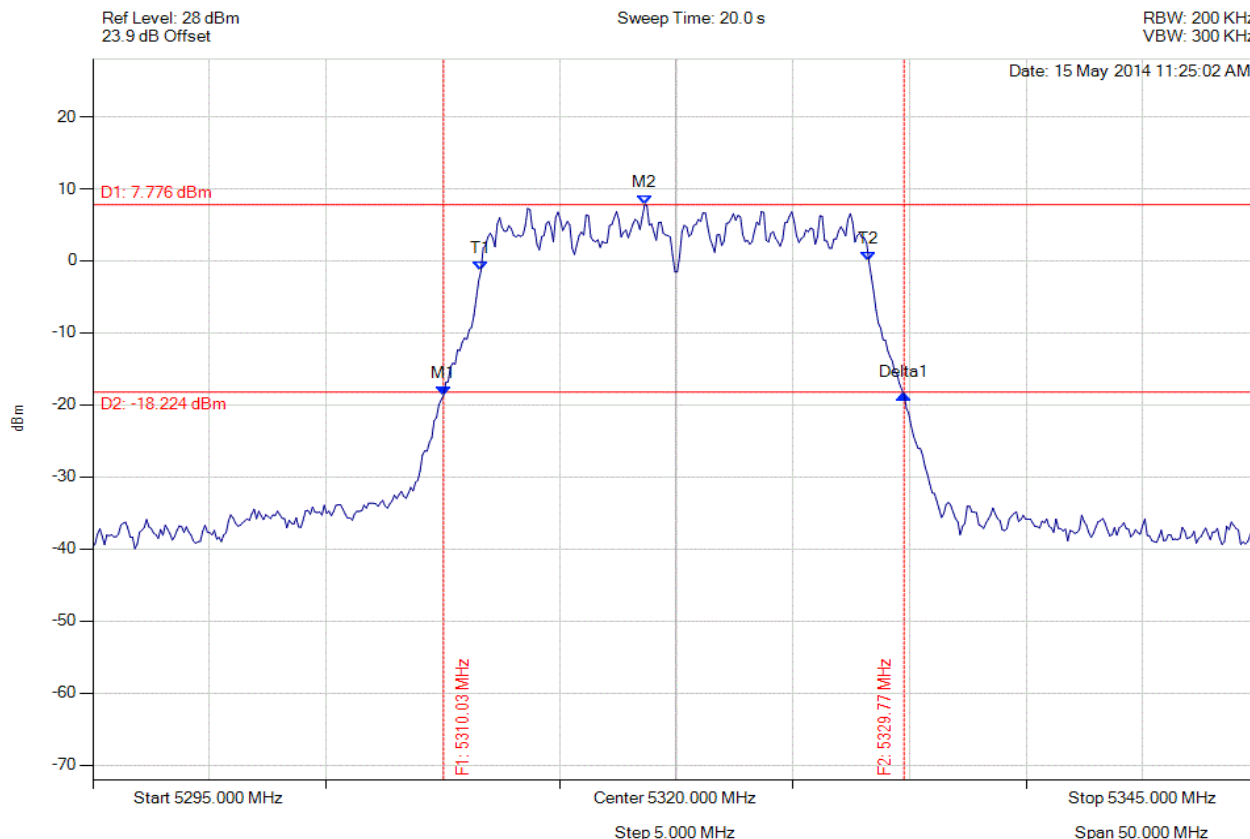


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.331 MHz : -18.894 dBm M2 : 5301.152 MHz : 7.514 dBm Delta1 : 19.439 MHz : -0.325 dB T1 : 5291.633 MHz : -0.045 dBm T2 : 5308.166 MHz : 1.433 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

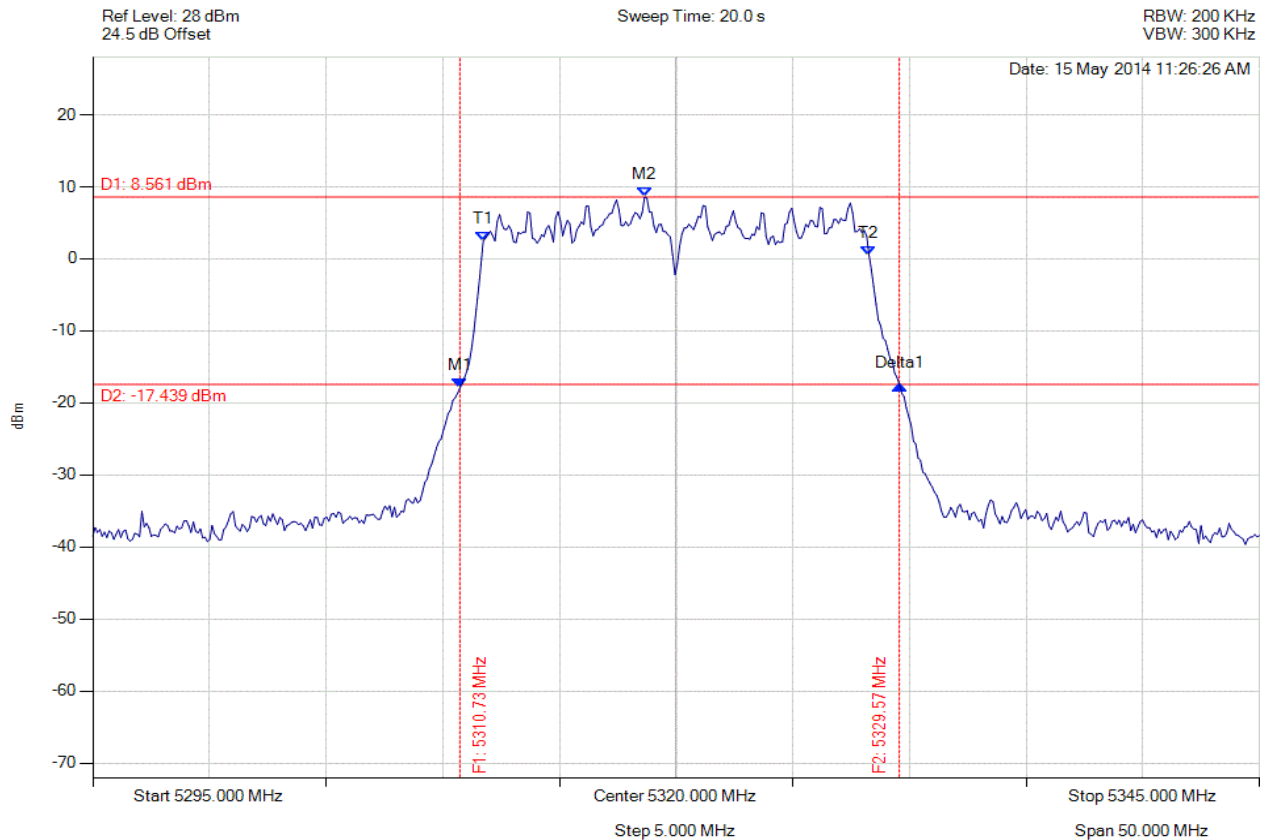


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5310.030 MHz : -18.654 dBm M2 : 5318.647 MHz : 7.776 dBm Delta1 : 19.739 MHz : 0.130 dB T1 : 5311.633 MHz : -1.430 dBm T2 : 5328.267 MHz : -0.106 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.739 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

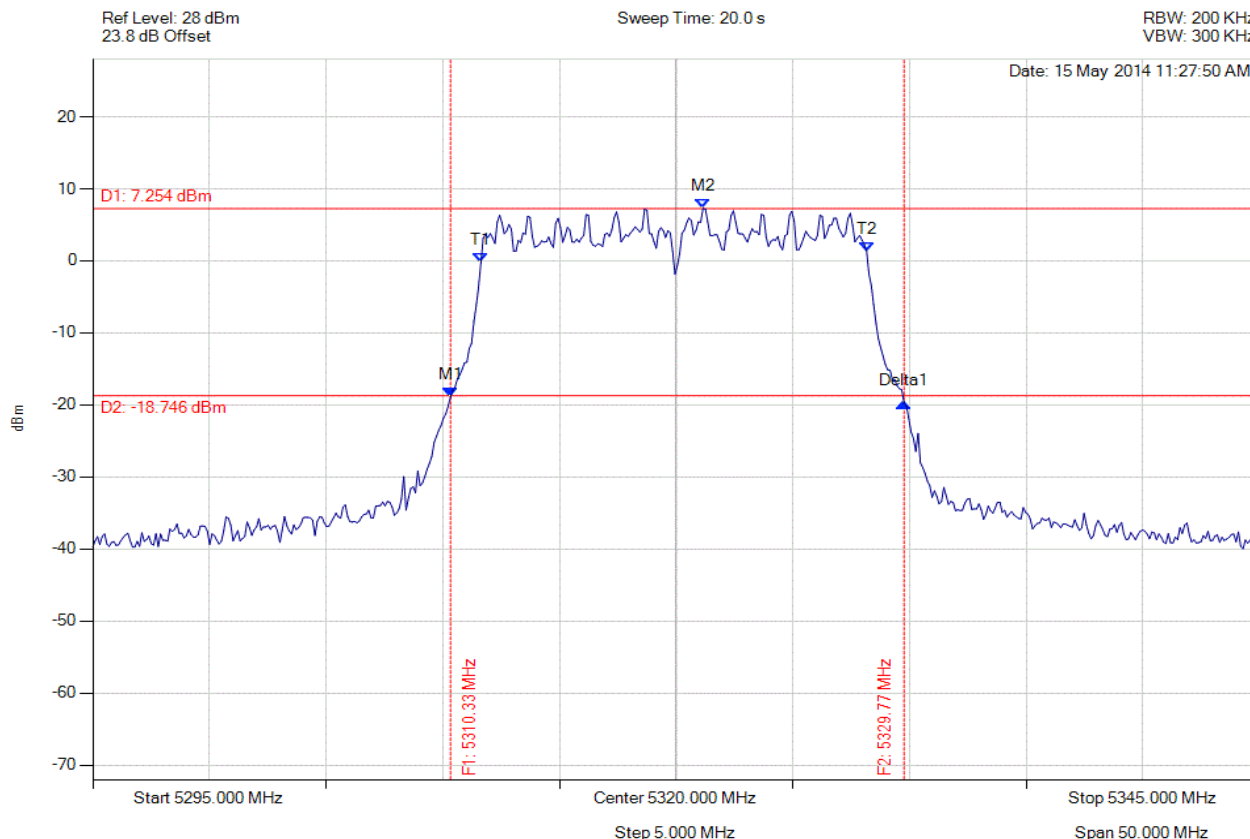


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5310.731 MHz : -17.946 dBm M2 : 5318.647 MHz : 8.561 dBm Delta1 : 18.838 MHz : 0.462 dB T1 : 5311.733 MHz : 2.452 dBm T2 : 5328.267 MHz : 0.534 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 18.838 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5310.331 MHz : -18.914 dBm M2 : 5321.152 MHz : 7.254 dBm Delta1 : 19.439 MHz : -0.809 dB T1 : 5311.633 MHz : -0.261 dBm T2 : 5328.166 MHz : 1.283 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.533 MHz

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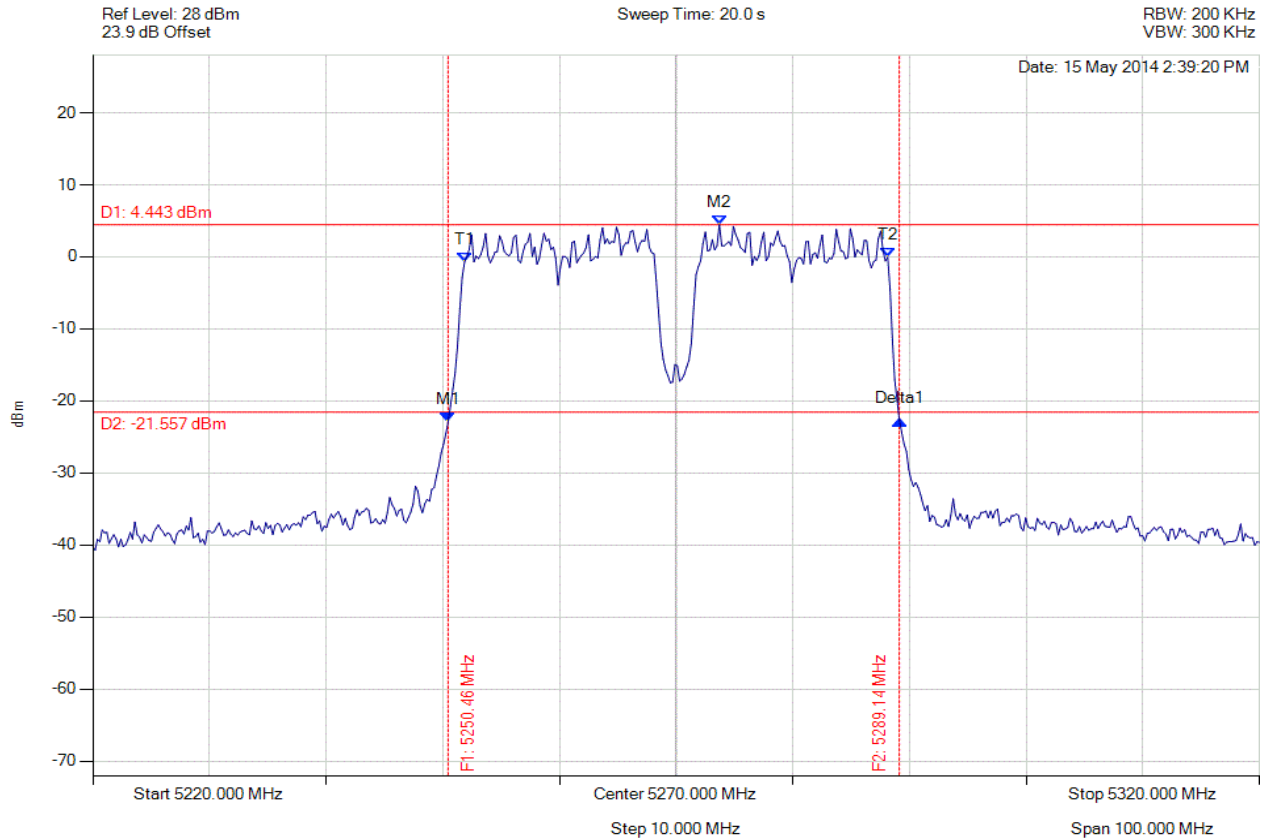


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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



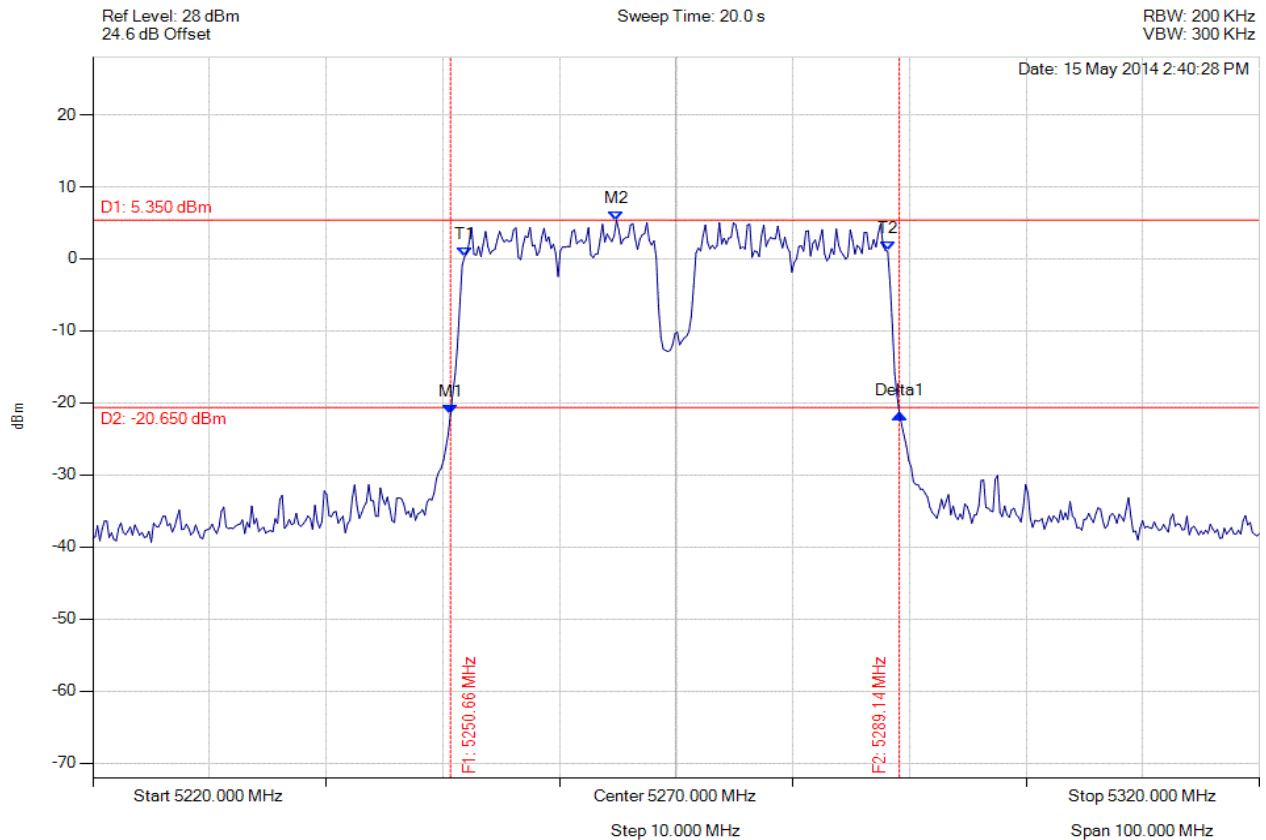
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.461 MHz : -22.913 dBm M2 : 5273.707 MHz : 4.443 dBm Delta1 : 38.677 MHz : 0.246 dB T1 : 5251.864 MHz : -0.729 dBm T2 : 5288.136 MHz : -0.041 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.677 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

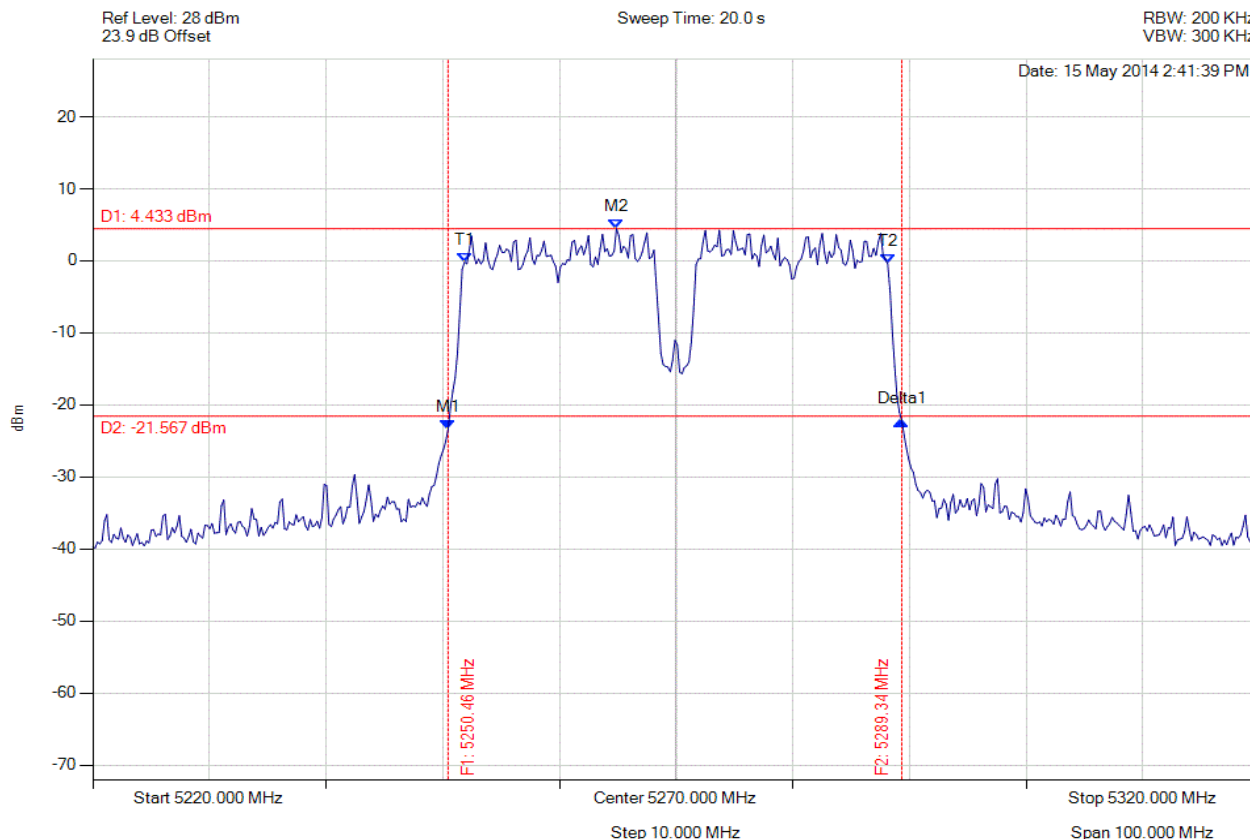


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.661 MHz : -21.564 dBm M2 : 5264.890 MHz : 5.350 dBm Delta1 : 38.477 MHz : 0.100 dB T1 : 5251.864 MHz : 0.302 dBm T2 : 5288.136 MHz : 1.055 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.477 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

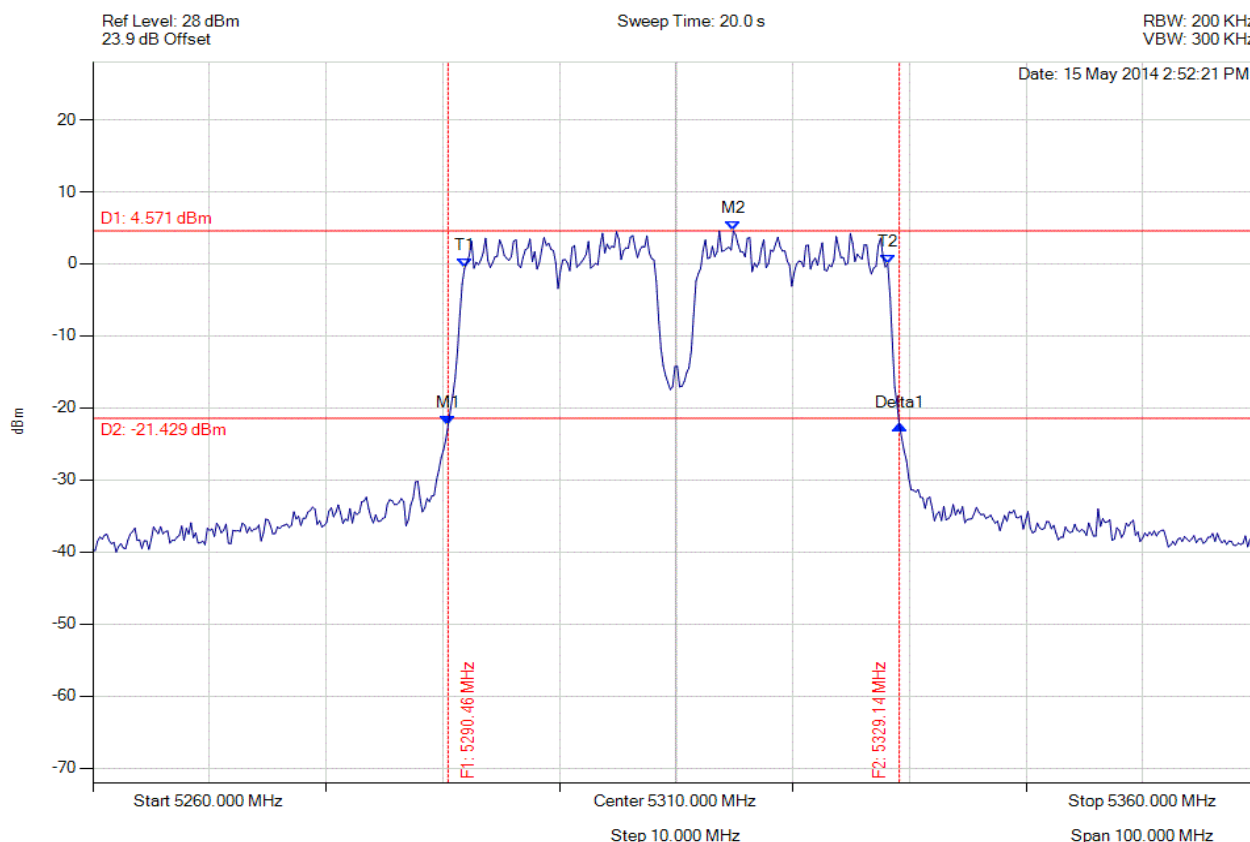


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5250.461 MHz : -23.376 dBm M2 : 5264.890 MHz : 4.433 dBm Delta1 : 38.878 MHz : 1.182 dB T1 : 5251.864 MHz : -0.180 dBm T2 : 5288.136 MHz : -0.409 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.878 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

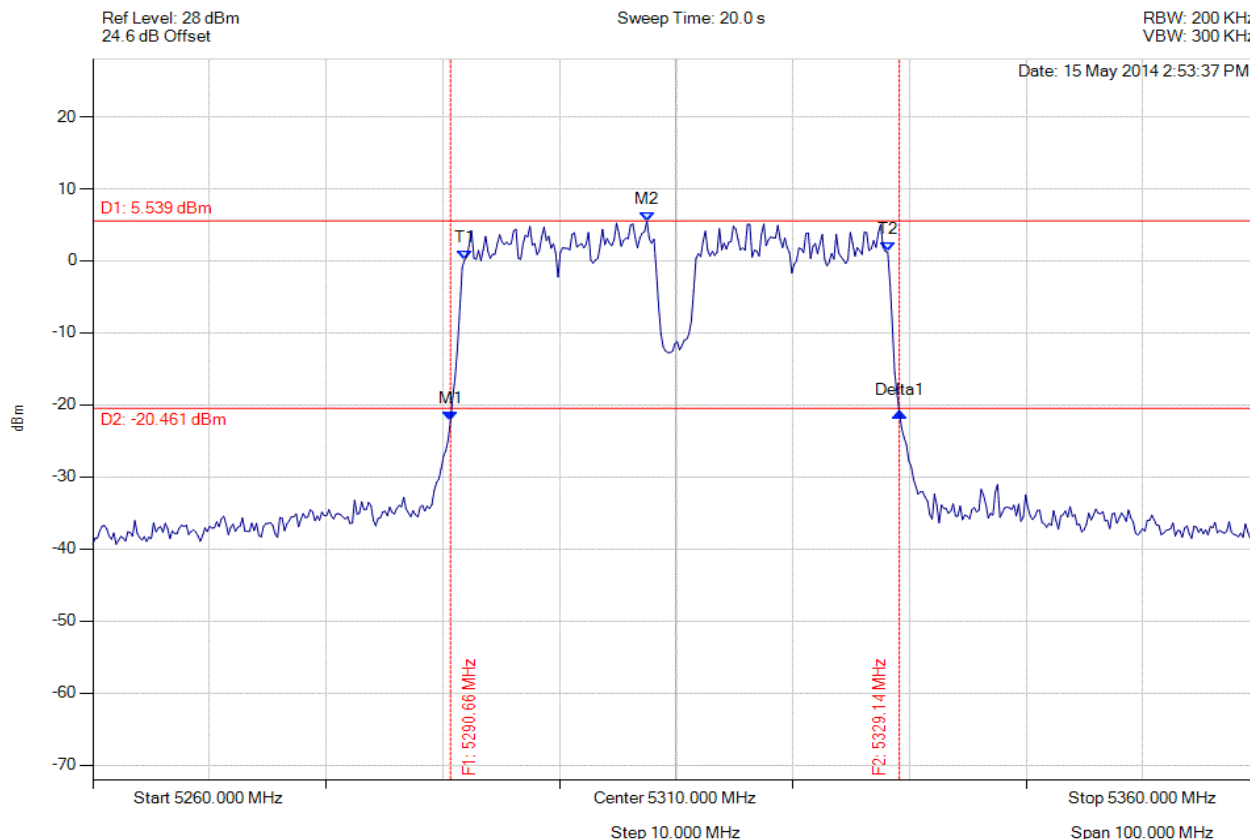


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.461 MHz : -22.419 dBm M2 : 5314.910 MHz : 4.571 dBm Delta1 : 38.677 MHz : -0.028 dB T1 : 5291.864 MHz : -0.607 dBm T2 : 5328.136 MHz : 0.014 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.677 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

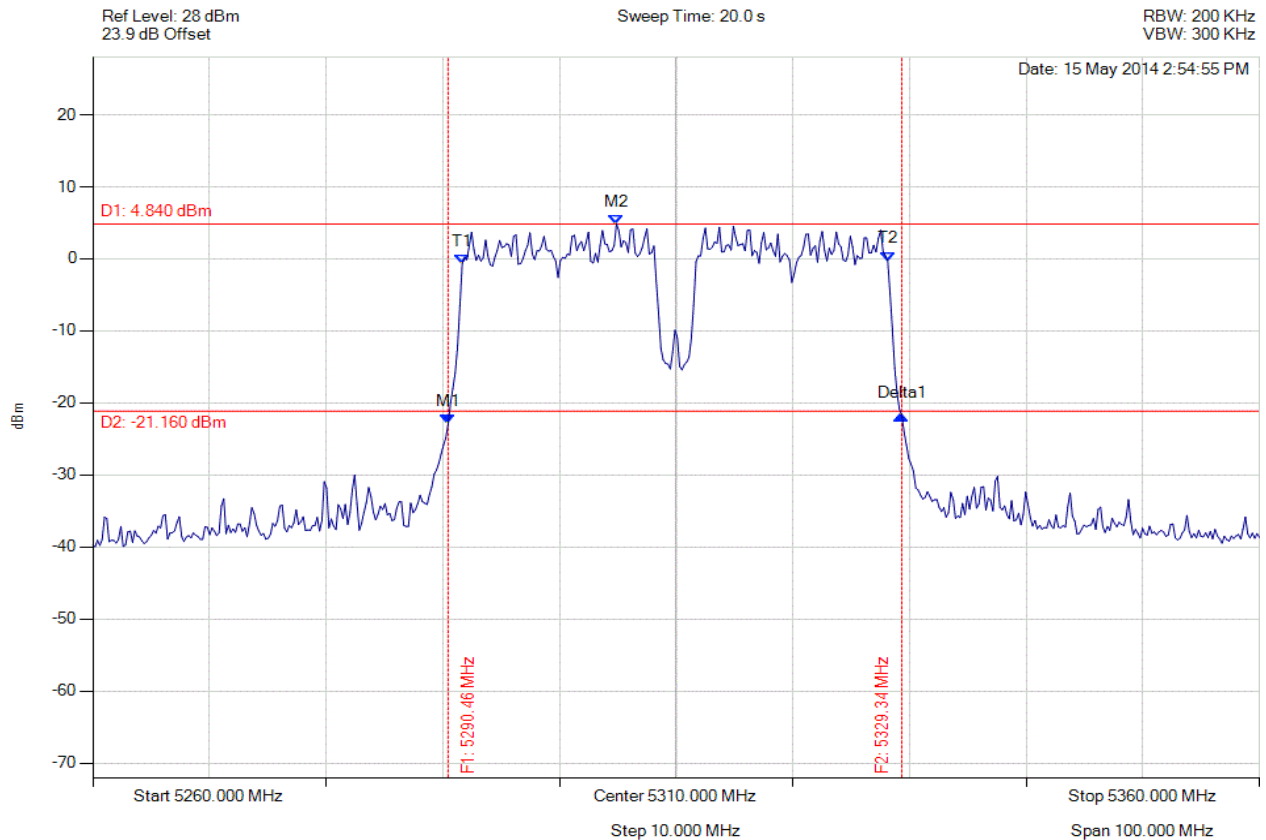


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.661 MHz : -22.274 dBm M2 : 5307.495 MHz : 5.539 dBm Delta1 : 38.477 MHz : 1.224 dB T1 : 5291.864 MHz : 0.150 dBm T2 : 5328.136 MHz : 1.232 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.477 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5290.461 MHz : -22.945 dBm M2 : 5304.890 MHz : 4.840 dBm Delta1 : 38.878 MHz : 1.169 dB T1 : 5291.663 MHz : -0.727 dBm T2 : 5328.136 MHz : -0.281 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 38.878 MHz Measured 99% Bandwidth: 36.473 MHz

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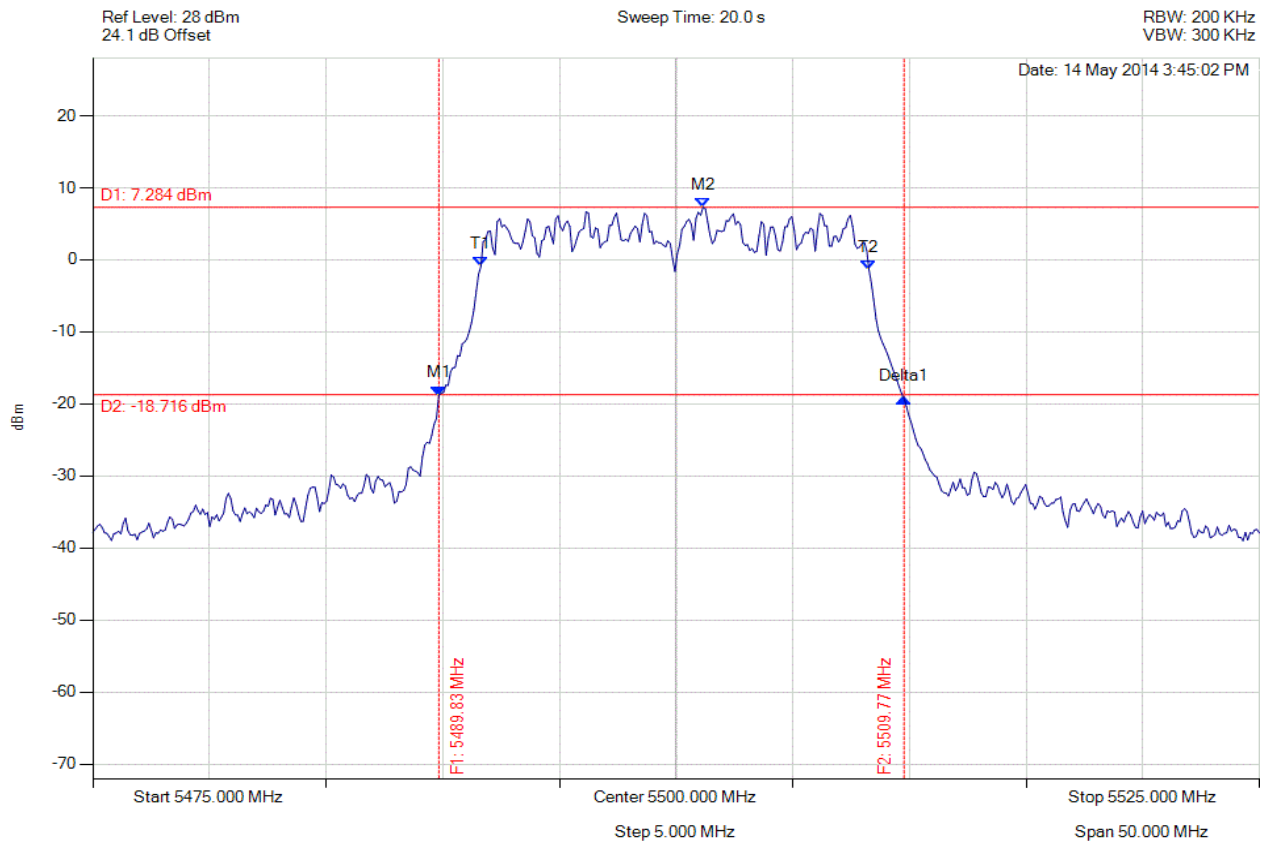


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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



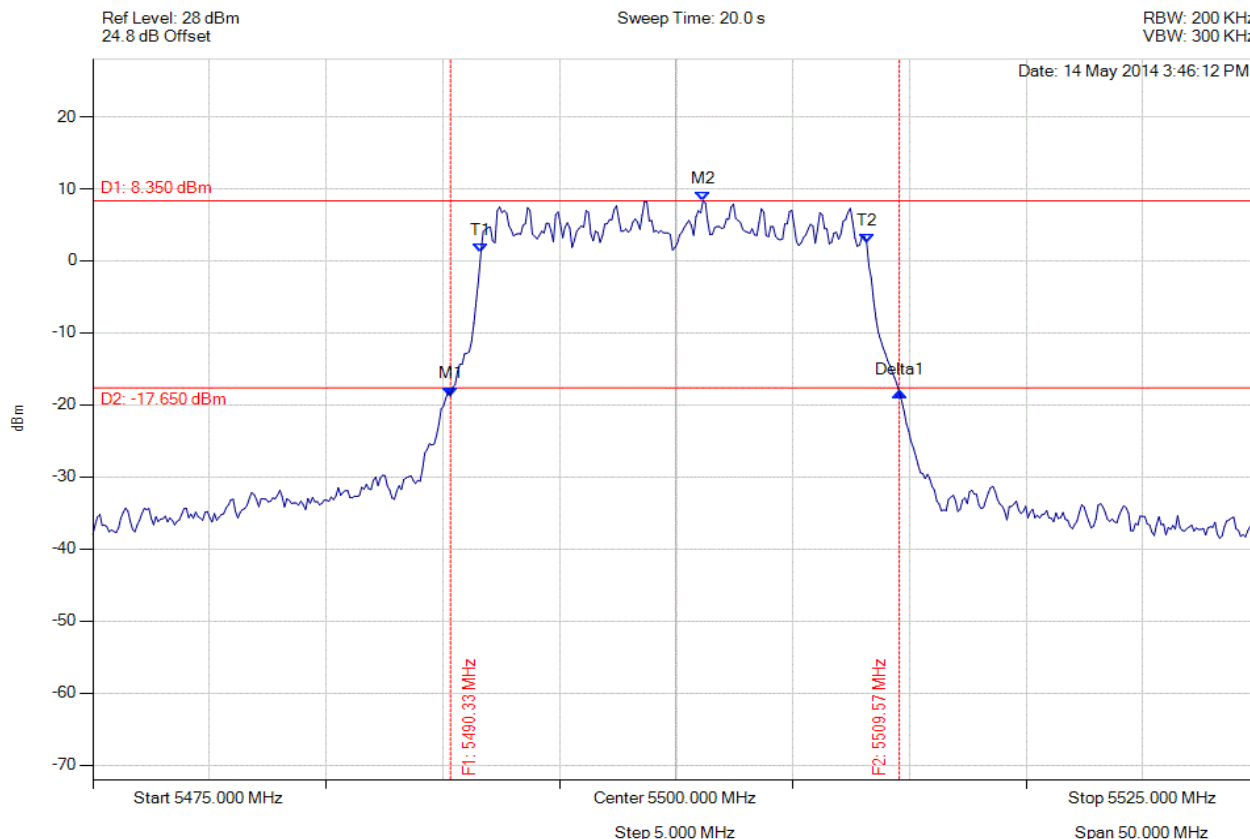
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5489.830 MHz : -18.796 dBm M2 : 5501.152 MHz : 7.284 dBm Delta1 : 19.940 MHz : -0.423 dB T1 : 5491.633 MHz : -0.887 dBm T2 : 5508.267 MHz : -1.355 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

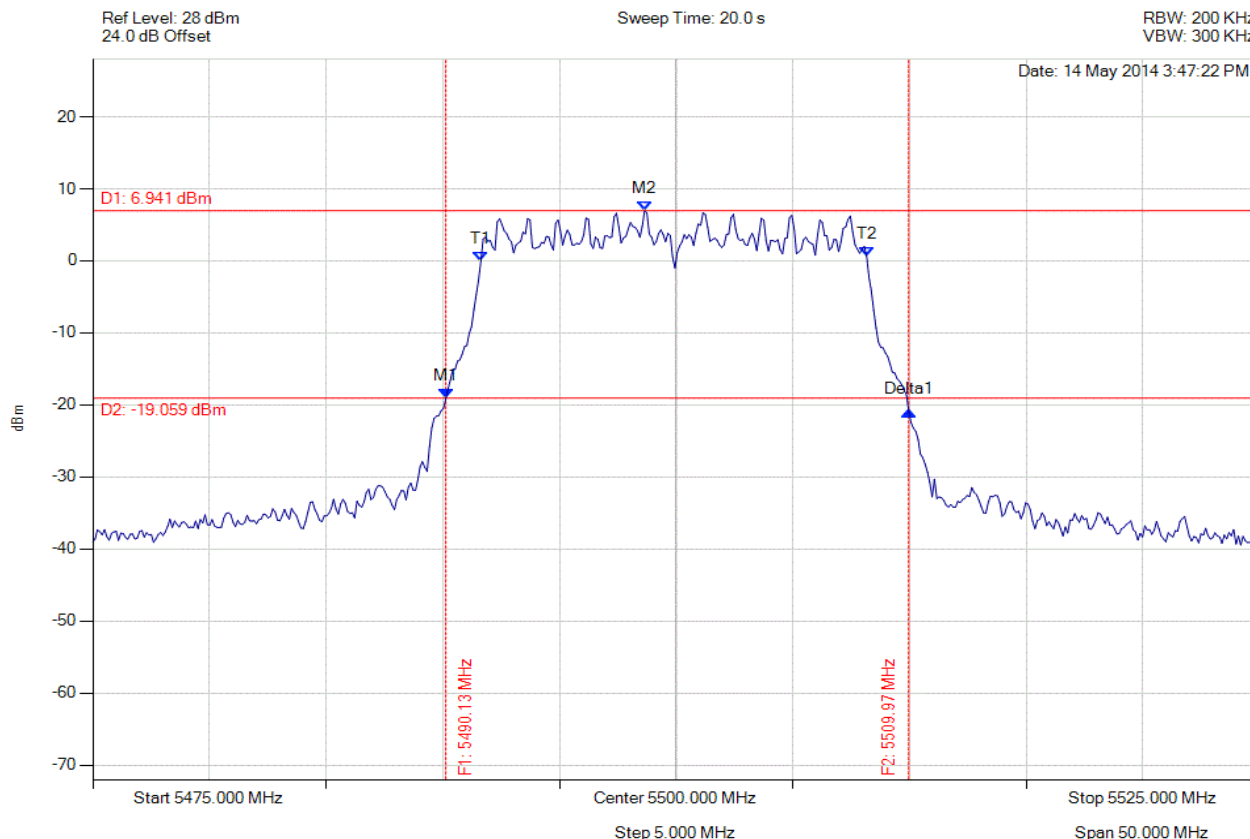


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.331 MHz : -18.796 dBm M2 : 5501.152 MHz : 8.350 dBm Delta1 : 19.238 MHz : 0.547 dB T1 : 5491.633 MHz : 1.118 dBm T2 : 5508.166 MHz : 2.462 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

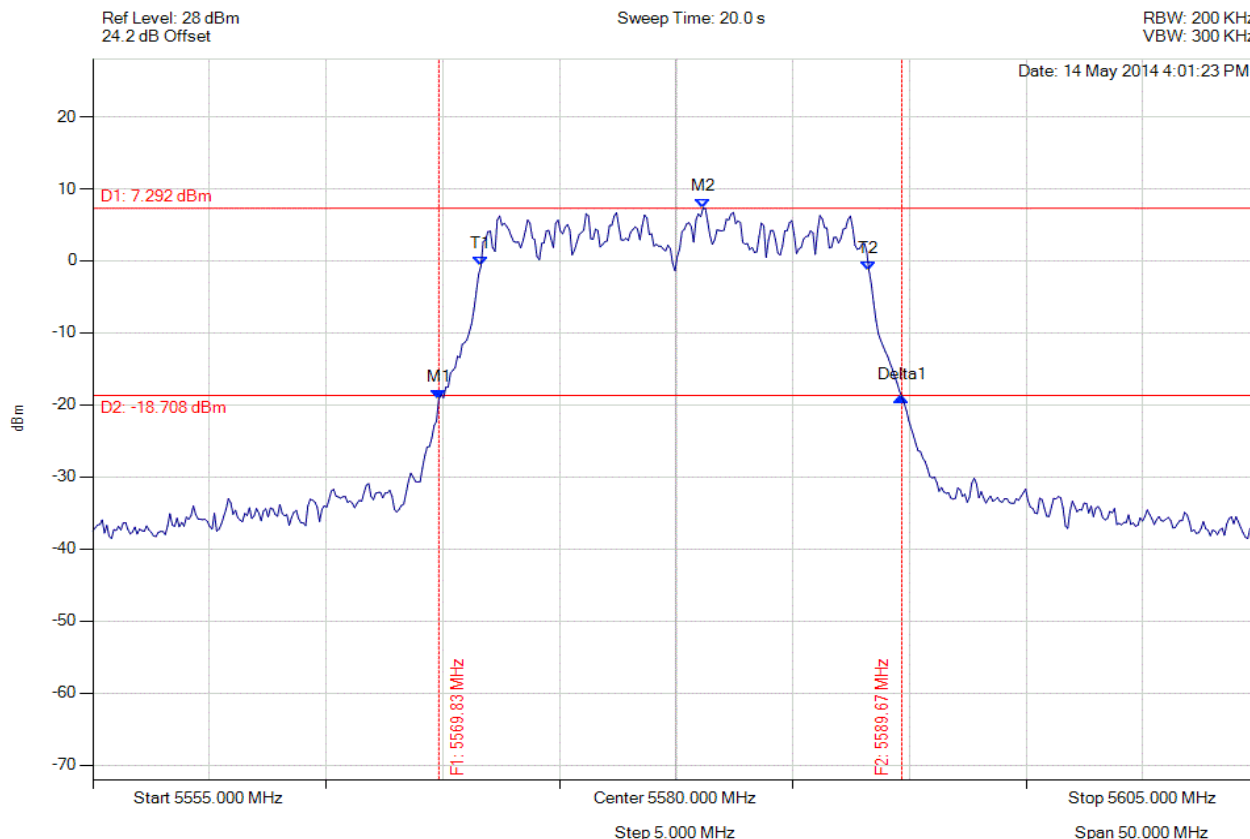


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.130 MHz : -19.106 dBm M2 : 5498.647 MHz : 6.941 dBm Delta1 : 19.840 MHz : -1.847 dB T1 : 5491.633 MHz : -0.009 dBm T2 : 5508.166 MHz : 0.597 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

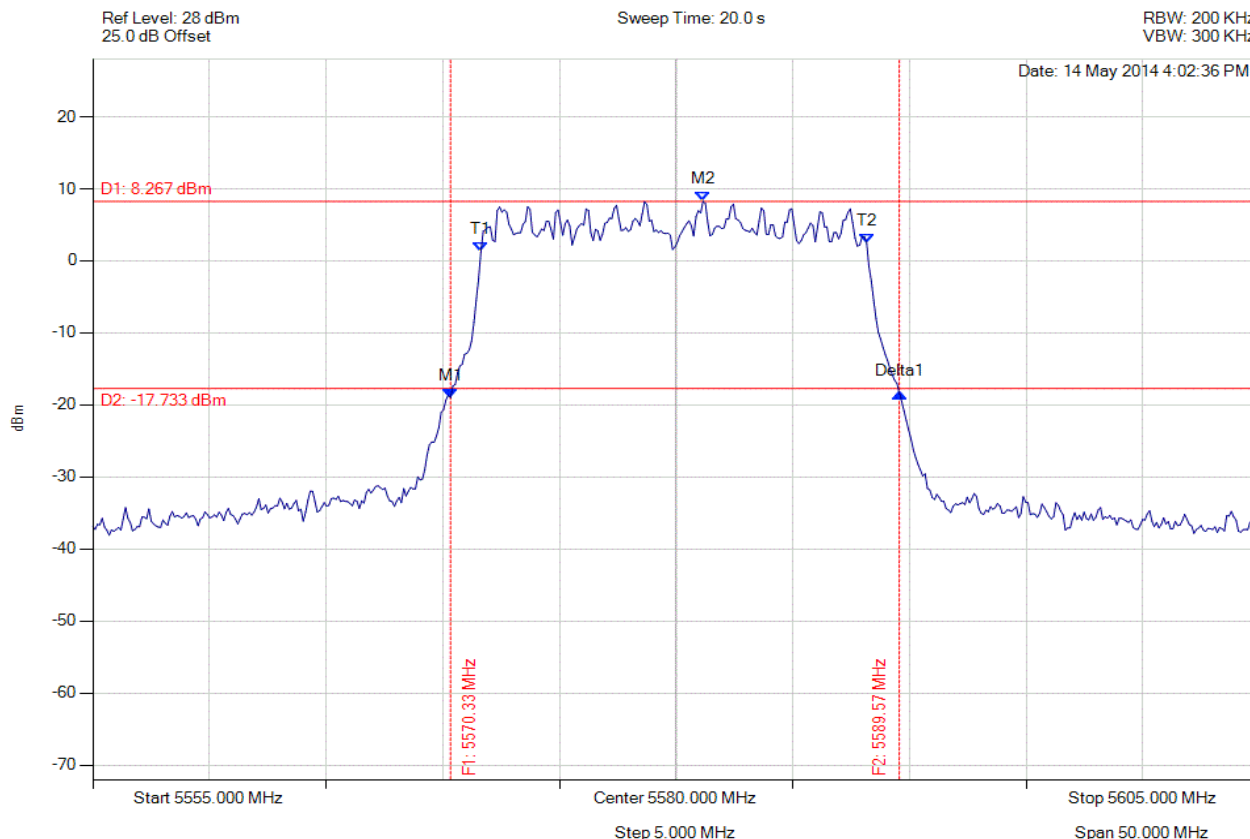


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5569.830 MHz : -19.161 dBm M2 : 5581.152 MHz : 7.292 dBm Delta1 : 19.840 MHz : 0.281 dB T1 : 5571.633 MHz : -0.769 dBm T2 : 5588.267 MHz : -1.306 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5570.331 MHz : -19.000 dBm M2 : 5581.152 MHz : 8.267 dBm Delta1 : 19.238 MHz : 0.618 dB T1 : 5571.633 MHz : 1.266 dBm T2 : 5588.166 MHz : 2.422 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.533 MHz

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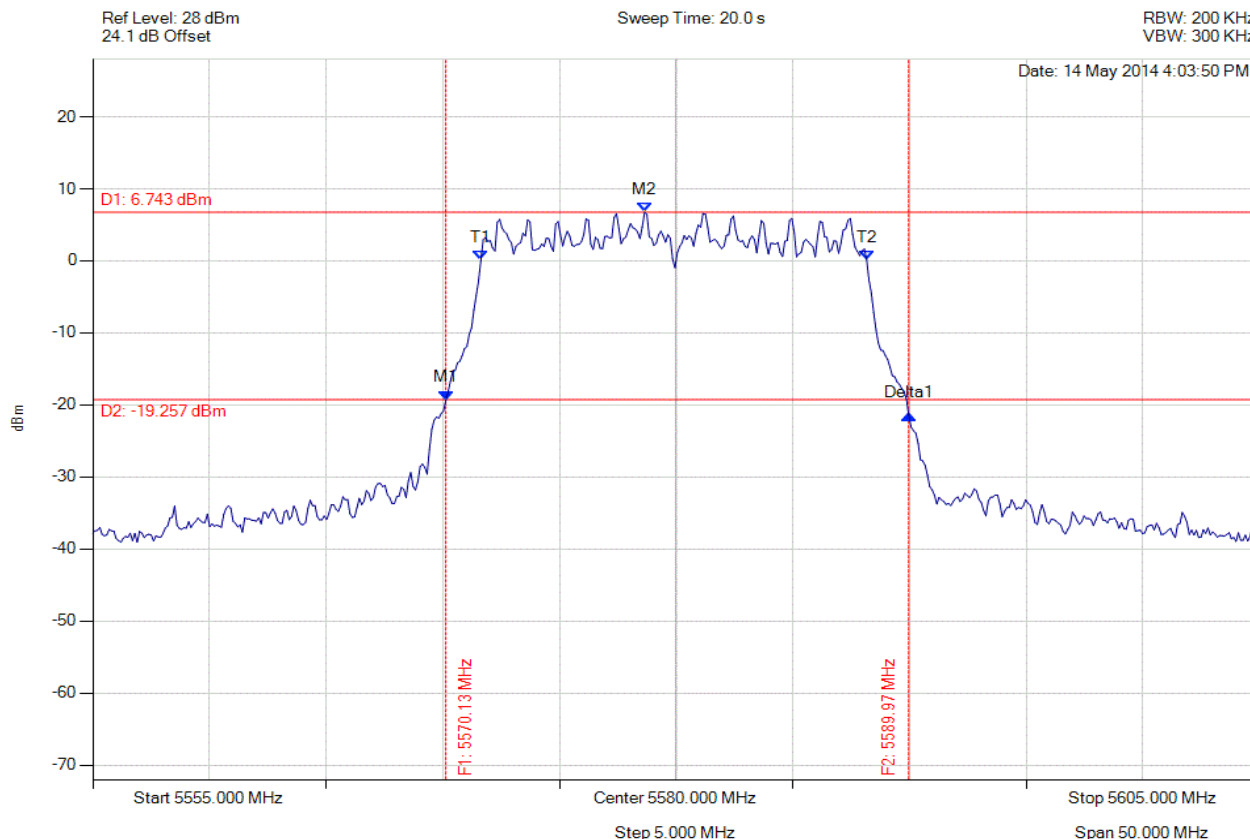


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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



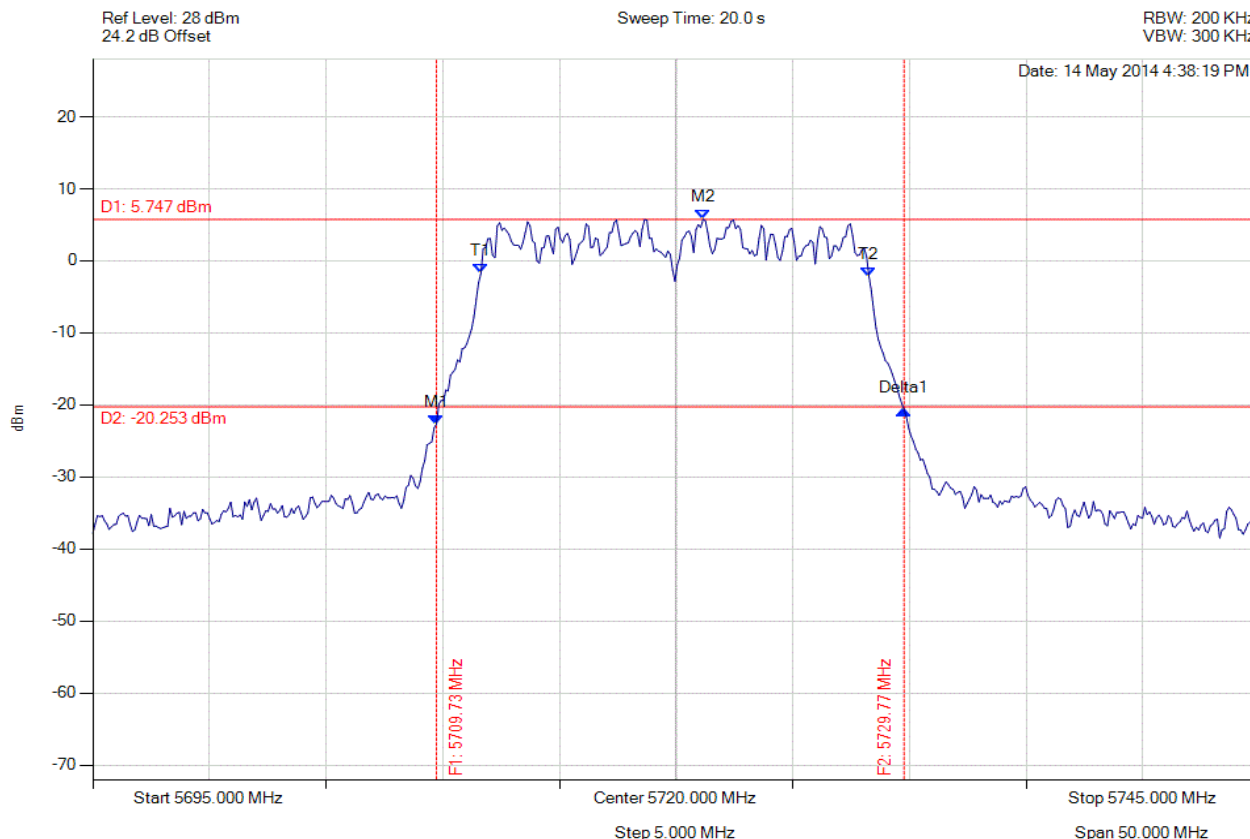
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5570.130 MHz : -19.305 dBm M2 : 5578.647 MHz : 6.743 dBm Delta1 : 19.840 MHz : -2.144 dB T1 : 5571.633 MHz : 0.103 dBm T2 : 5588.166 MHz : 0.113 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.840 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

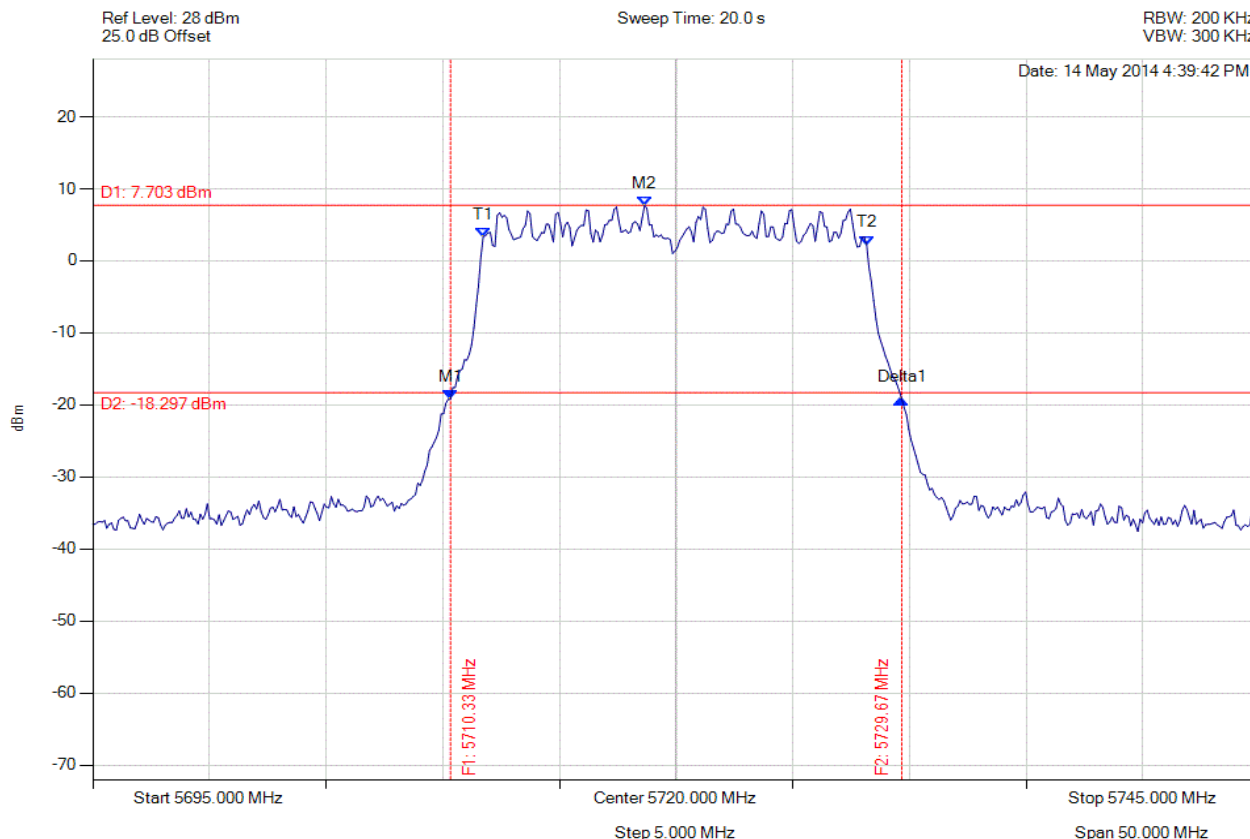


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5709.729 MHz : -22.661 dBm M2 : 5721.152 MHz : 5.747 dBm Delta1 : 20.040 MHz : 2.011 dB T1 : 5711.633 MHz : -1.741 dBm T2 : 5728.267 MHz : -2.165 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 20.040 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



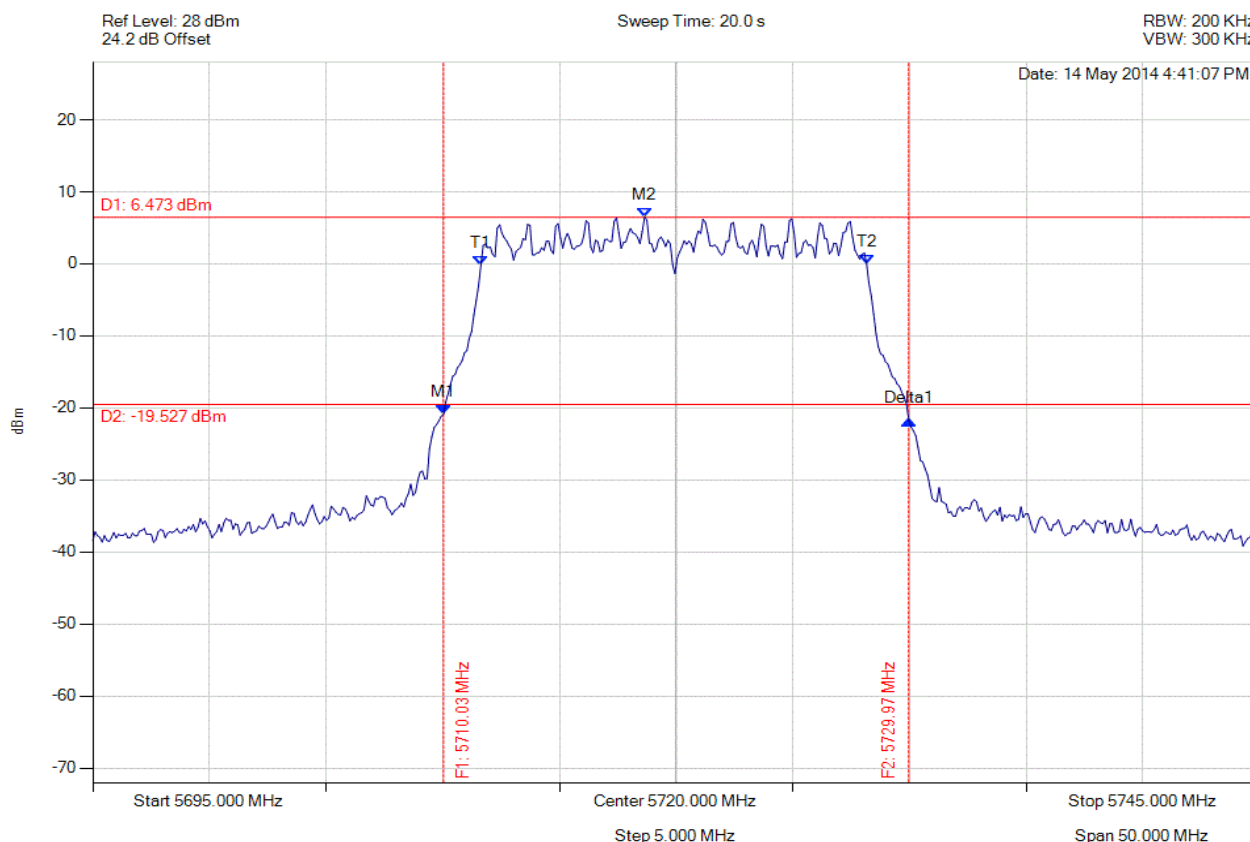
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5710.331 MHz : -19.215 dBm M2 : 5718.647 MHz : 7.703 dBm Delta1 : 19.339 MHz : -0.022 dB T1 : 5711.733 MHz : 3.347 dBm T2 : 5728.166 MHz : 2.210 dBm OBW : 16.433 MHz	Measured 26 dB Bandwidth: 19.339 MHz Measured 99% Bandwidth: 16.433 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



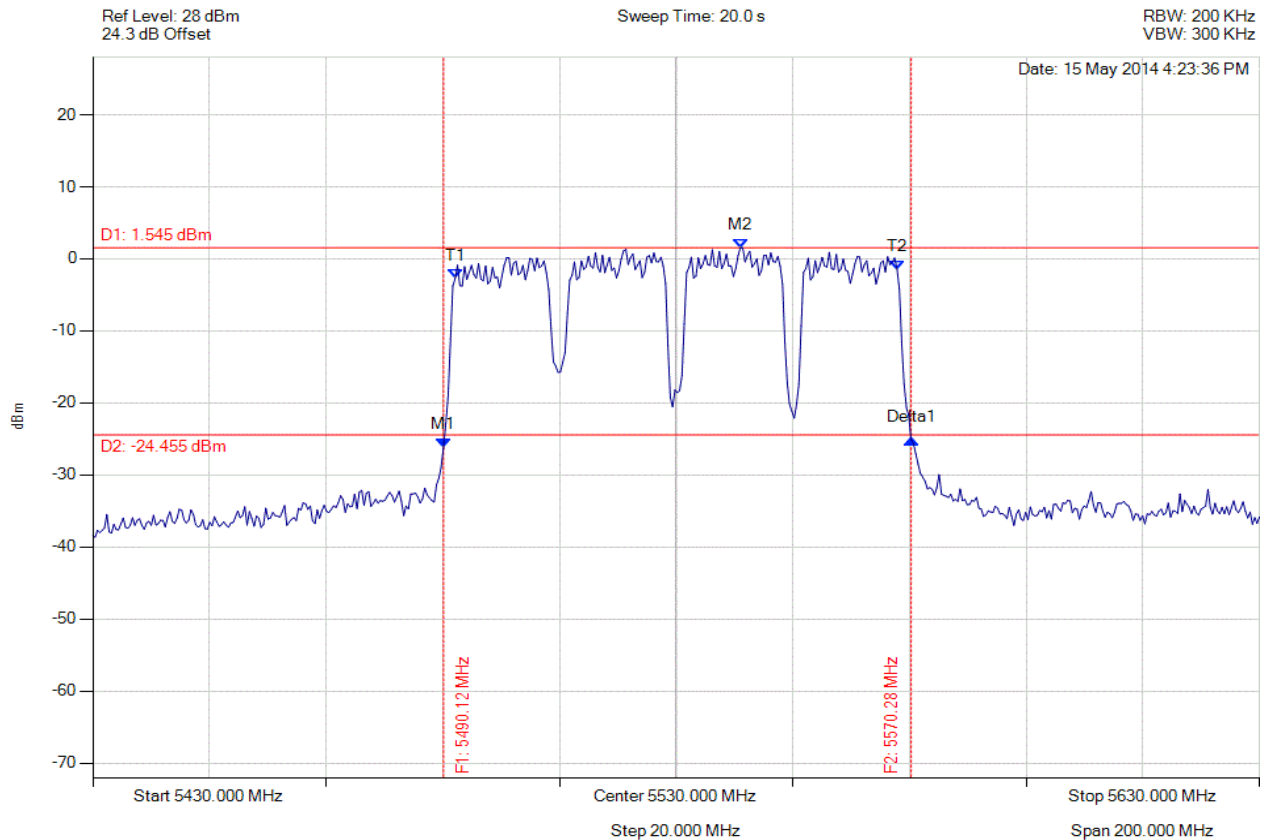
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5710.030 MHz : -20.877 dBm M2 : 5718.647 MHz : 6.473 dBm Delta1 : 19.940 MHz : -0.803 dB T1 : 5711.633 MHz : -0.192 dBm T2 : 5728.166 MHz : -0.072 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.120 MHz : -26.138 dBm M2 : 5541.022 MHz : 1.545 dBm Delta1 : 80.160 MHz : 1.015 dB T1 : 5492.124 MHz : -2.730 dBm T2 : 5567.876 MHz : -1.449 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

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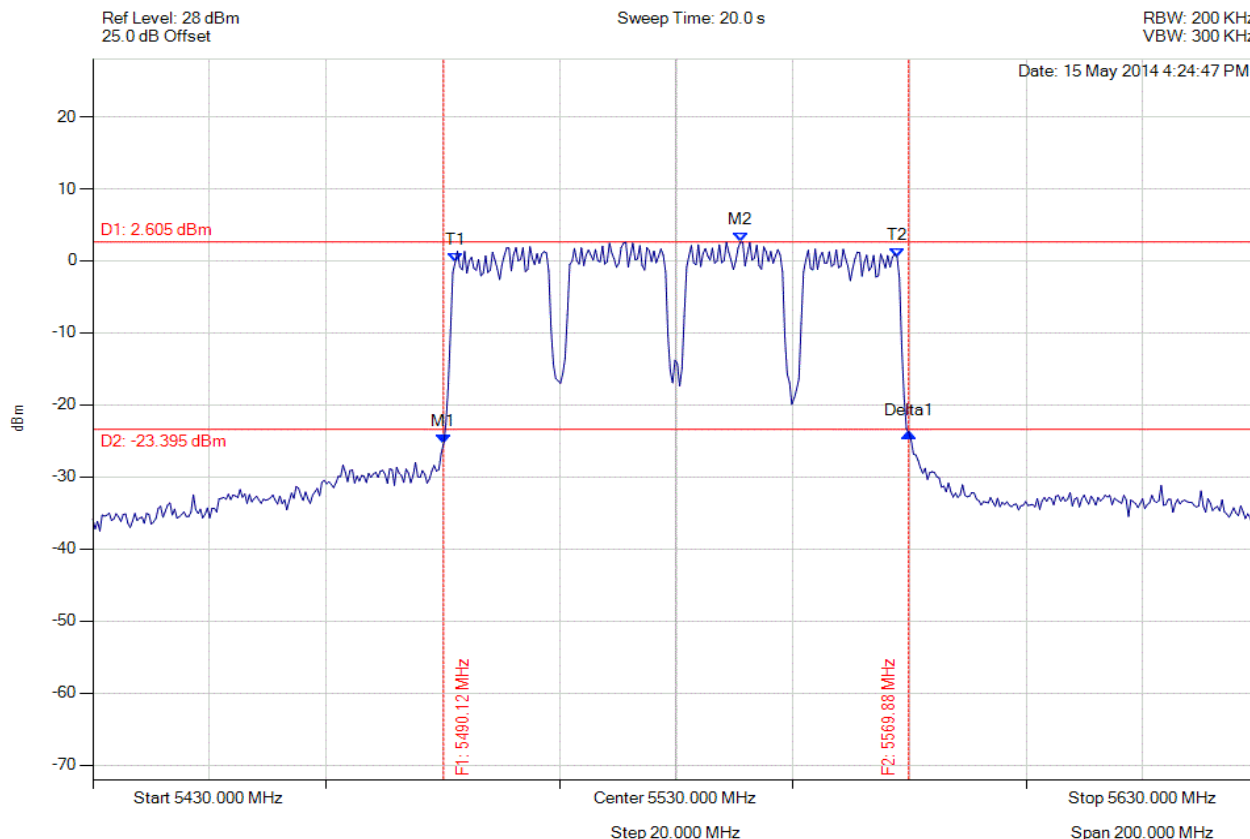


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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



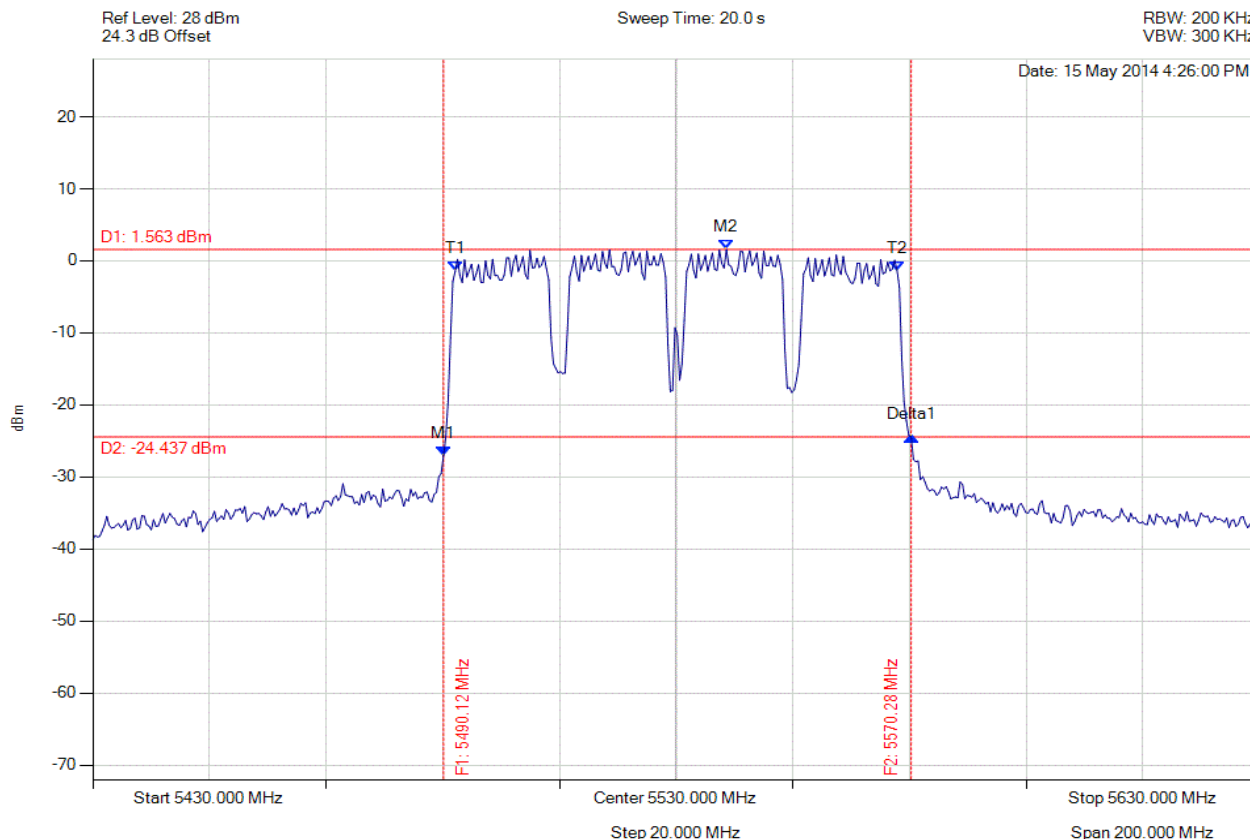
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.120 MHz : -25.422 dBm M2 : 5541.022 MHz : 2.605 dBm Delta1 : 79.760 MHz : 1.546 dB T1 : 5492.124 MHz : -0.180 dBm T2 : 5567.876 MHz : 0.530 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 79.760 MHz Measured 99% Bandwidth: 75.752 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.120 MHz : -26.986 dBm M2 : 5538.617 MHz : 1.563 dBm Delta1 : 80.160 MHz : 2.548 dB T1 : 5492.124 MHz : -1.434 dBm T2 : 5567.876 MHz : -1.339 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

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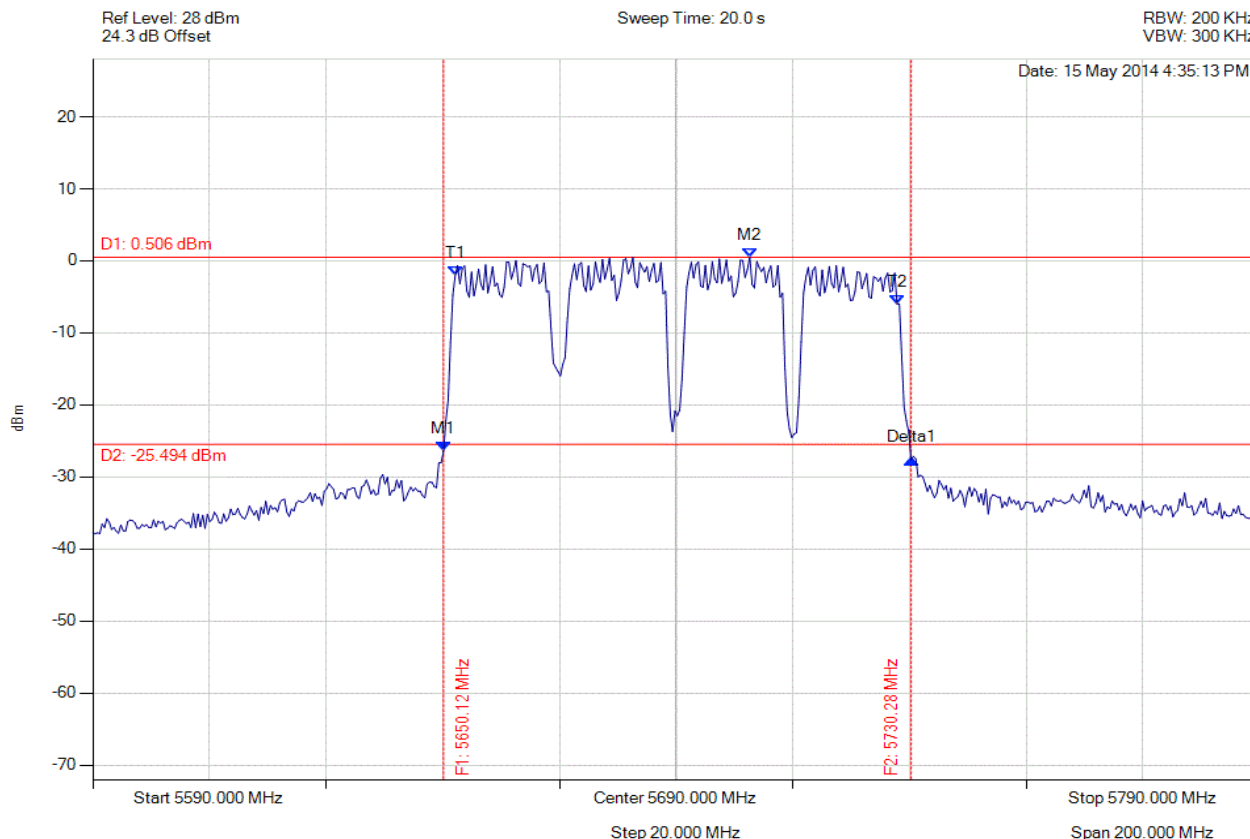


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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



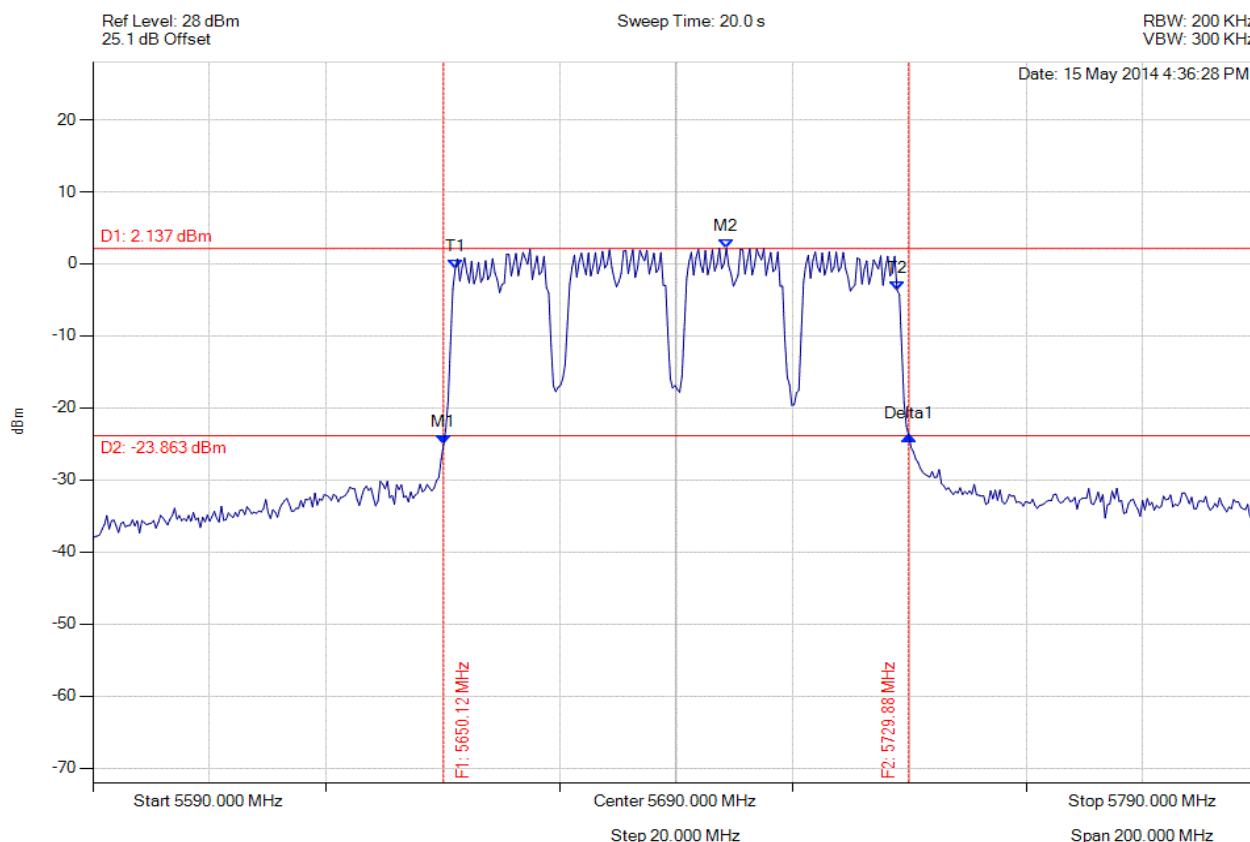
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5650.120 MHz : -26.403 dBm M2 : 5702.625 MHz : 0.506 dBm Delta1 : 80.160 MHz : -1.200 dB T1 : 5652.124 MHz : -2.065 dBm T2 : 5727.876 MHz : -6.035 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5650.120 MHz : -25.128 dBm M2 : 5698.617 MHz : 2.137 dBm Delta1 : 79.760 MHz : 1.255 dB T1 : 5652.124 MHz : -0.708 dBm T2 : 5727.876 MHz : -3.635 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 79.760 MHz Measured 99% Bandwidth: 75.752 MHz

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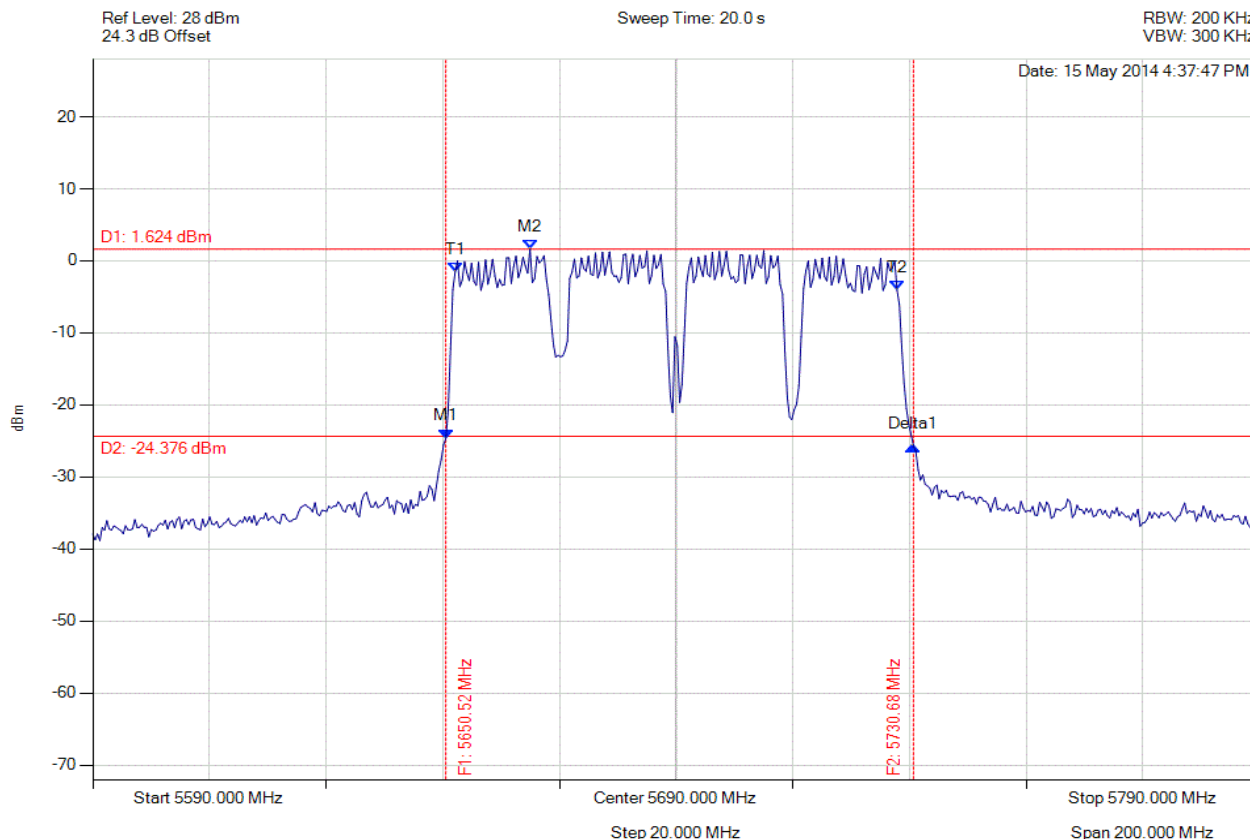


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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



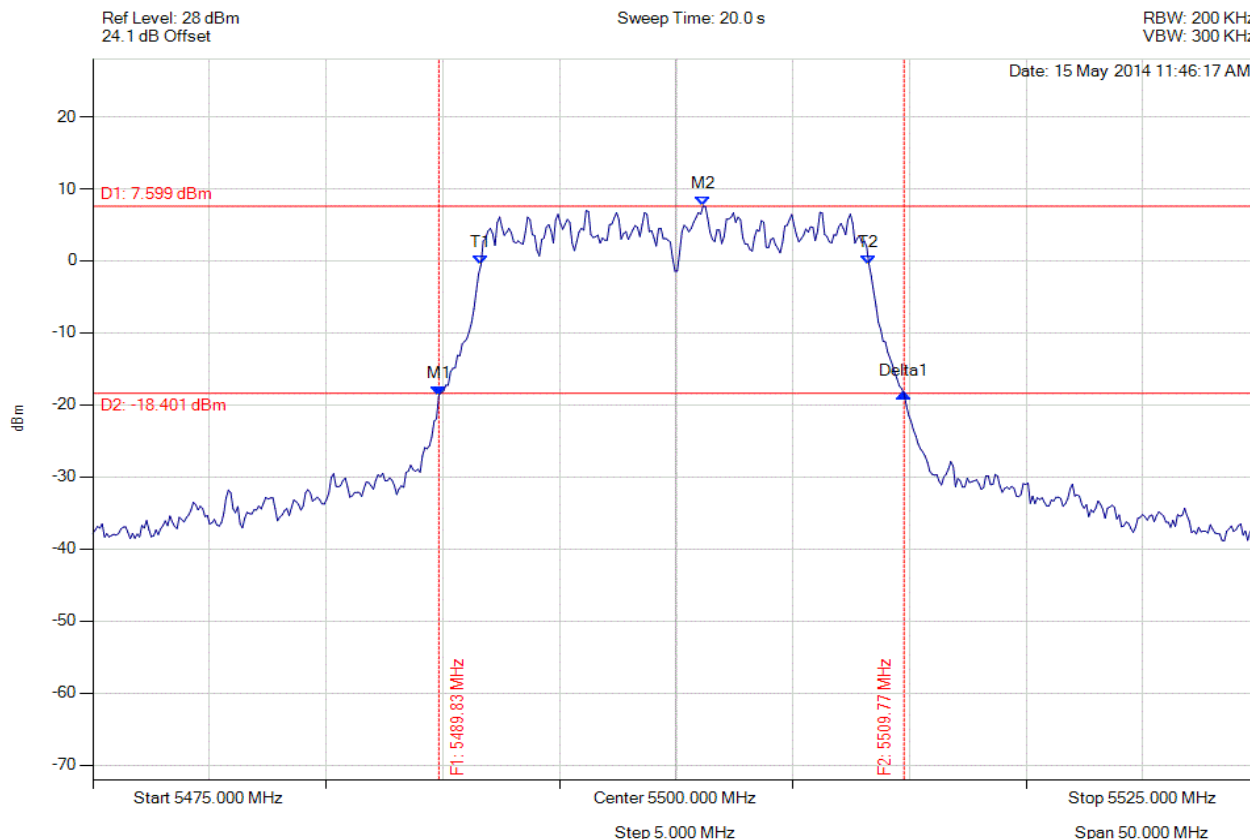
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5650.521 MHz : -24.633 dBm M2 : 5664.950 MHz : 1.624 dBm Delta1 : 80.160 MHz : -1.035 dB T1 : 5652.124 MHz : -1.512 dBm T2 : 5727.876 MHz : -4.068 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 80.160 MHz Measured 99% Bandwidth: 75.752 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

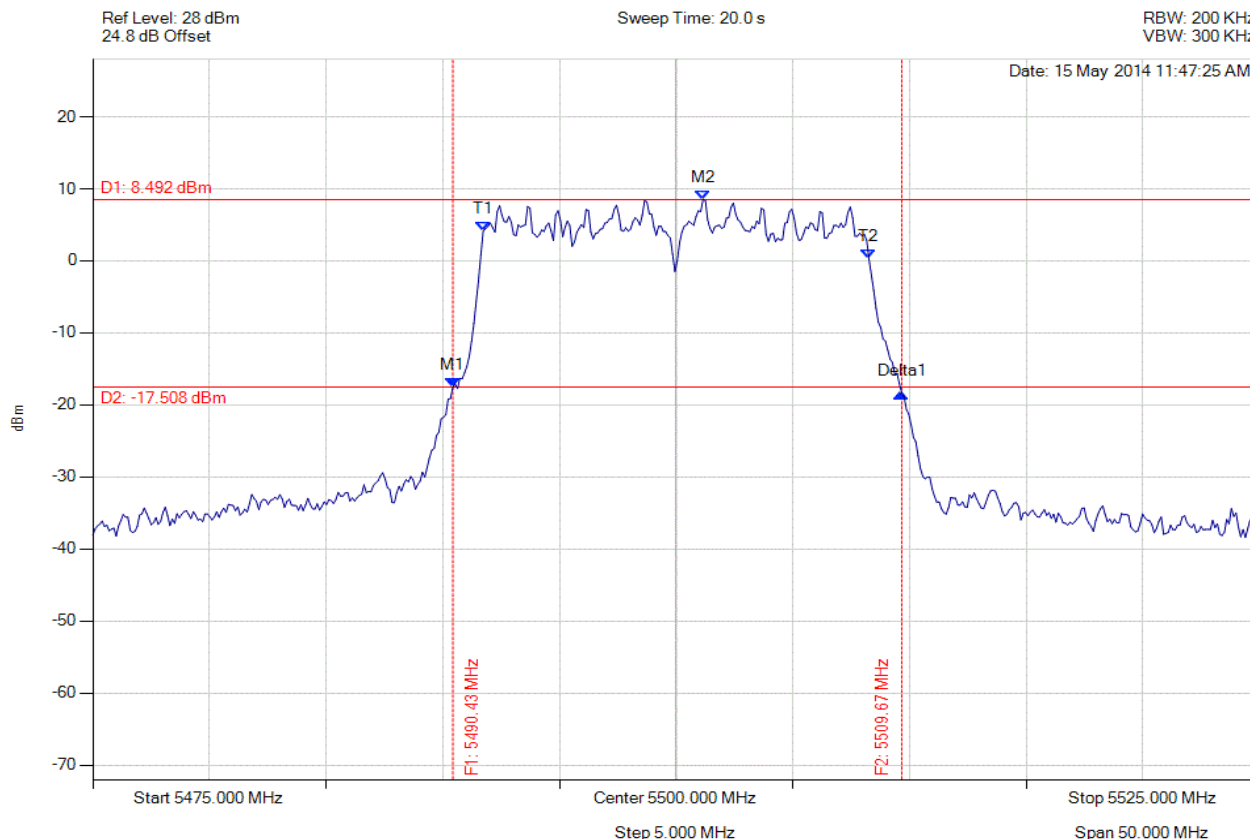


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5489.830 MHz : -18.650 dBm M2 : 5501.152 MHz : 7.599 dBm Delta1 : 19.940 MHz : 0.224 dB T1 : 5491.633 MHz : -0.586 dBm T2 : 5508.267 MHz : -0.470 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

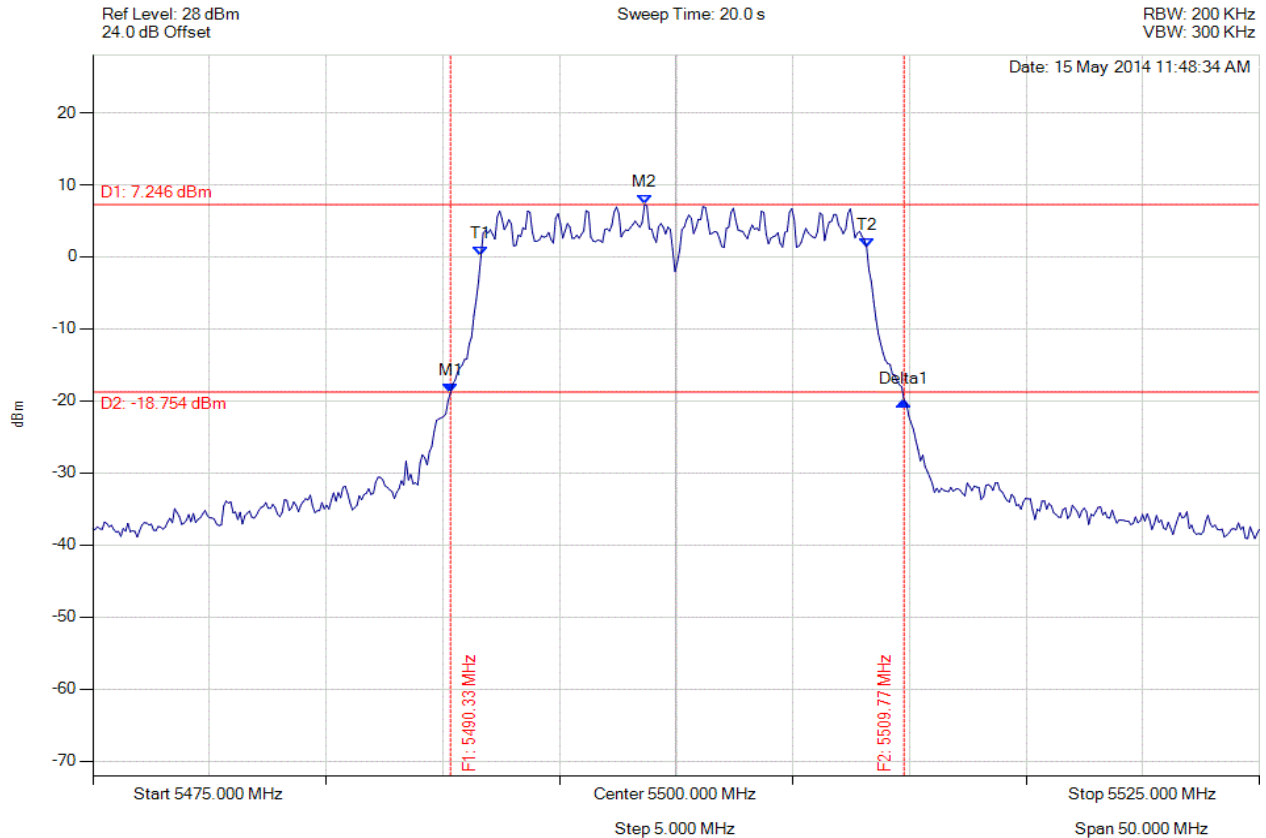


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.431 MHz : -17.582 dBm M2 : 5501.152 MHz : 8.492 dBm Delta1 : 19.238 MHz : -0.785 dB T1 : 5491.733 MHz : 4.114 dBm T2 : 5508.267 MHz : 0.239 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.238 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

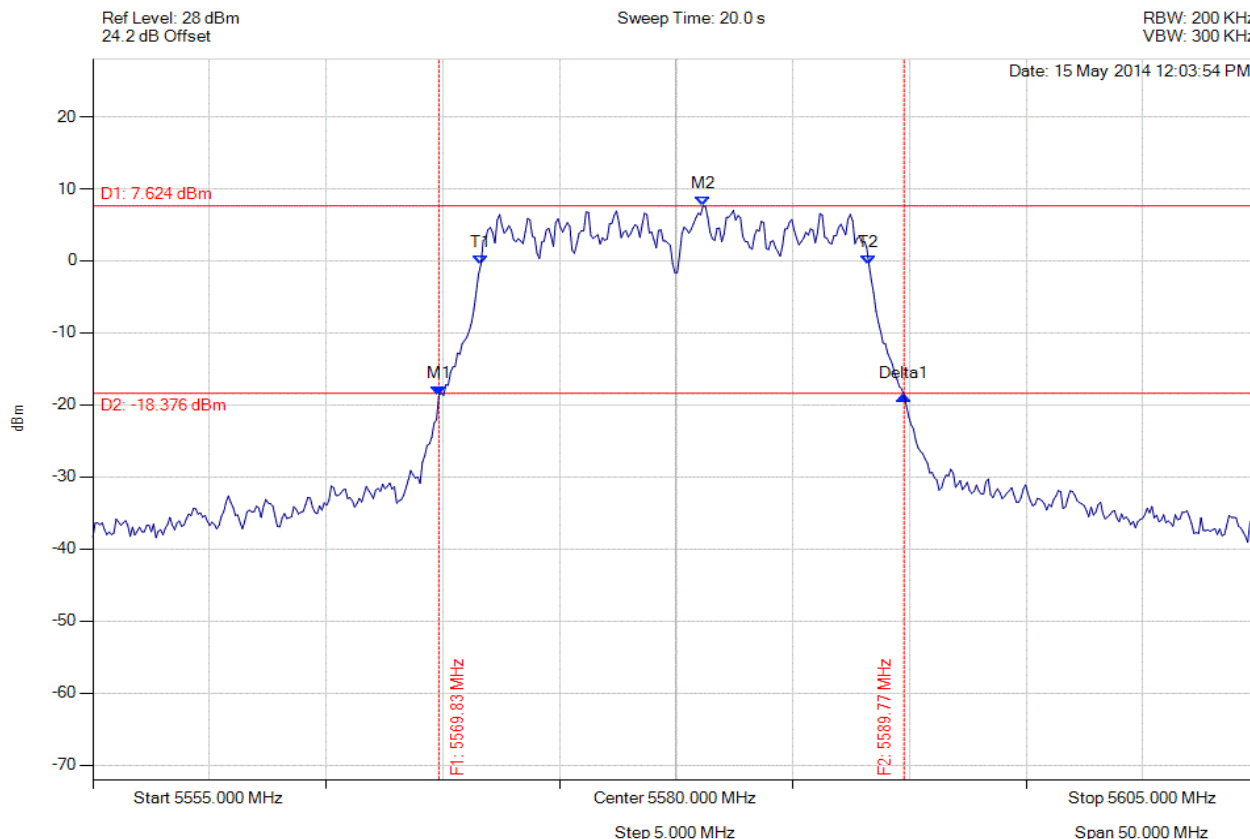


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.331 MHz : -18.904 dBm M2 : 5498.647 MHz : 7.246 dBm Delta1 : 19.439 MHz : -1.076 dB T1 : 5491.633 MHz : 0.060 dBm T2 : 5508.166 MHz : 1.289 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

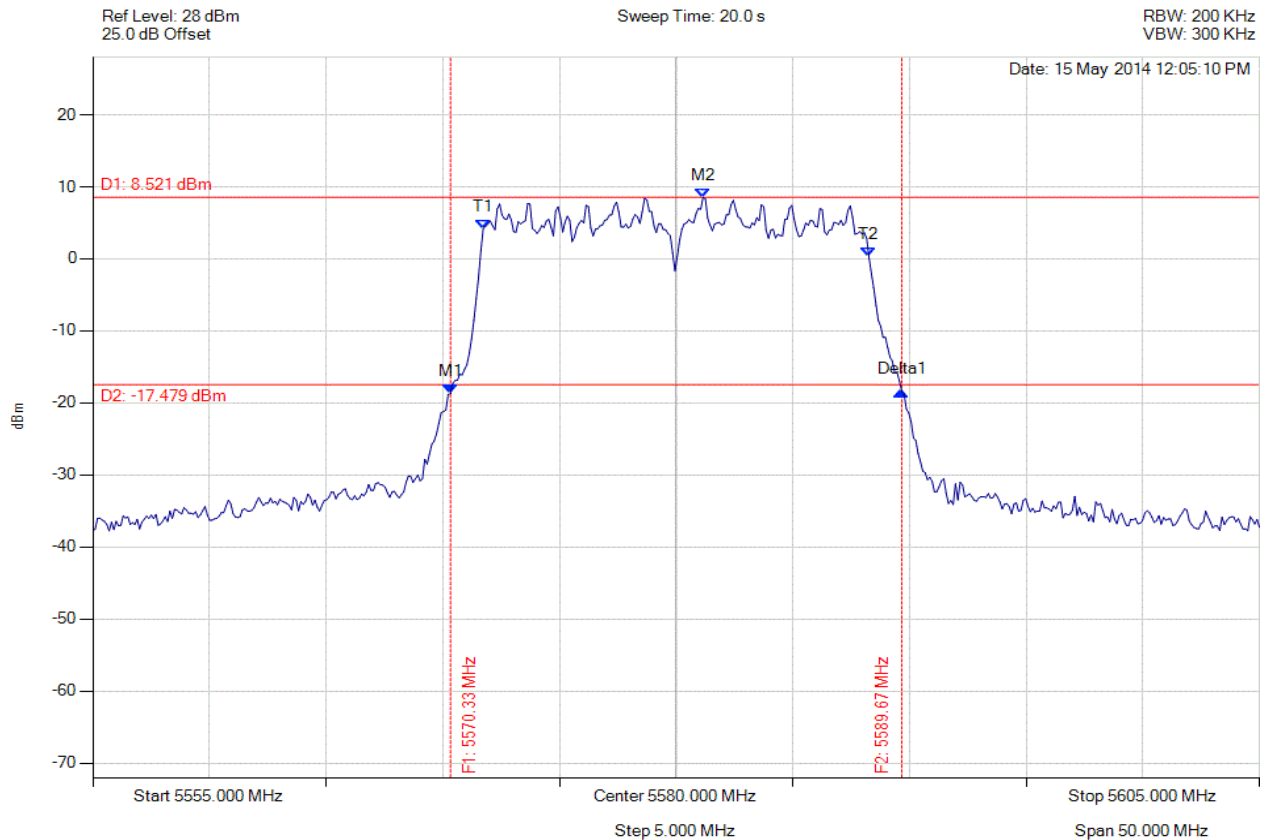


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5569.830 MHz : -18.768 dBm M2 : 5581.152 MHz : 7.624 dBm Delta1 : 19.940 MHz : 0.104 dB T1 : 5571.633 MHz : -0.505 dBm T2 : 5588.267 MHz : -0.556 dBm OBW : 16.633 MHz	Measured 26 dB Bandwidth: 19.940 MHz Measured 99% Bandwidth: 16.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



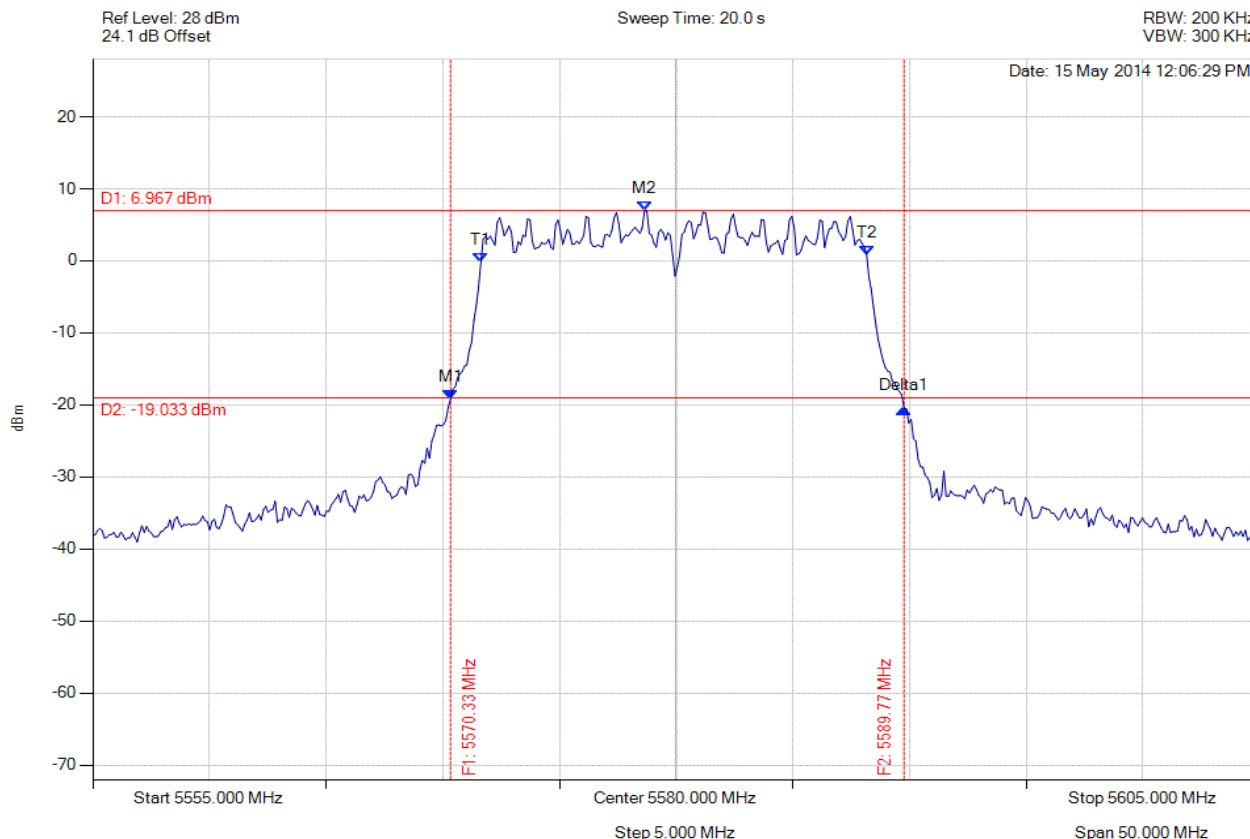
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5570.331 MHz : -18.729 dBm M2 : 5581.152 MHz : 8.521 dBm Delta1 : 19.339 MHz : 0.346 dB T1 : 5571.733 MHz : 4.193 dBm T2 : 5588.267 MHz : 0.241 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.339 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

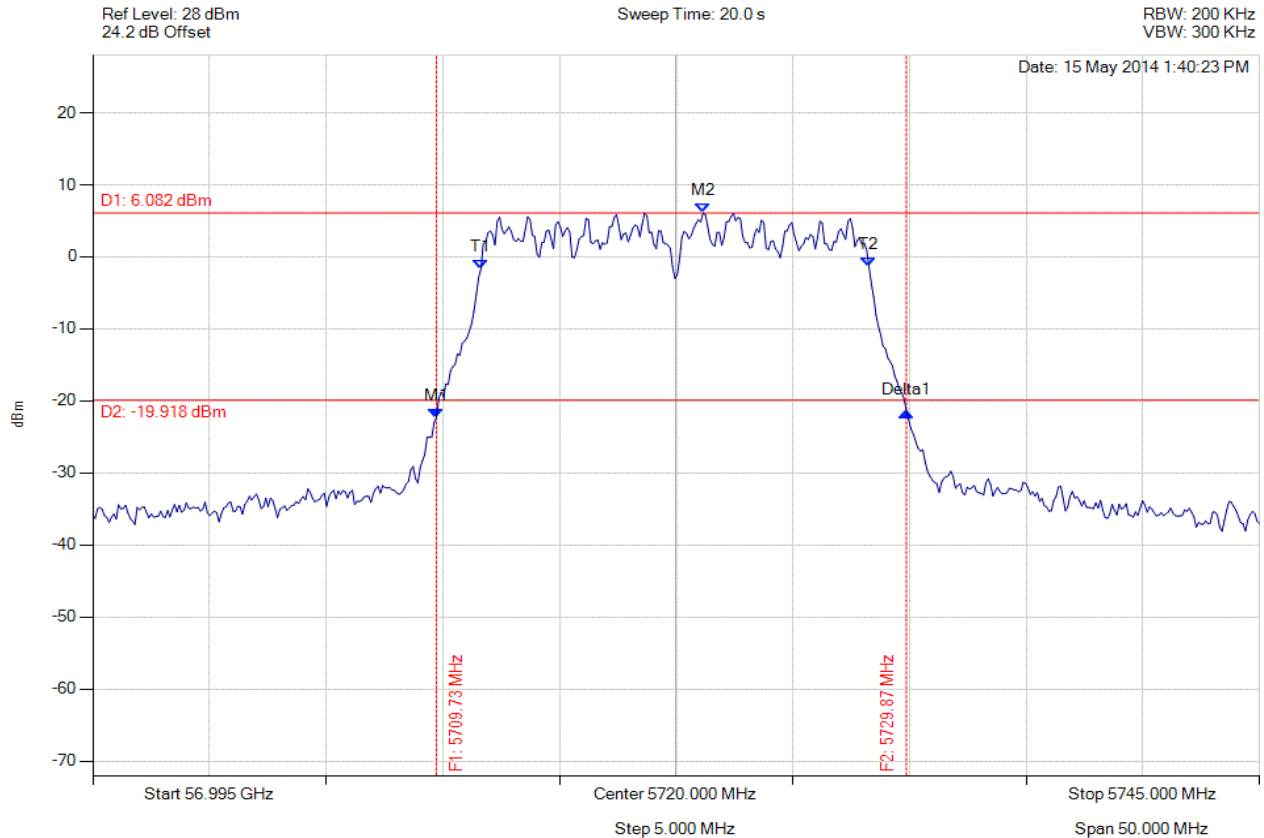


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5570.331 MHz : -19.203 dBm M2 : 5578.647 MHz : 6.967 dBm Delta1 : 19.439 MHz : -1.261 dB T1 : 5571.633 MHz : -0.200 dBm T2 : 5588.166 MHz : 0.778 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.439 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



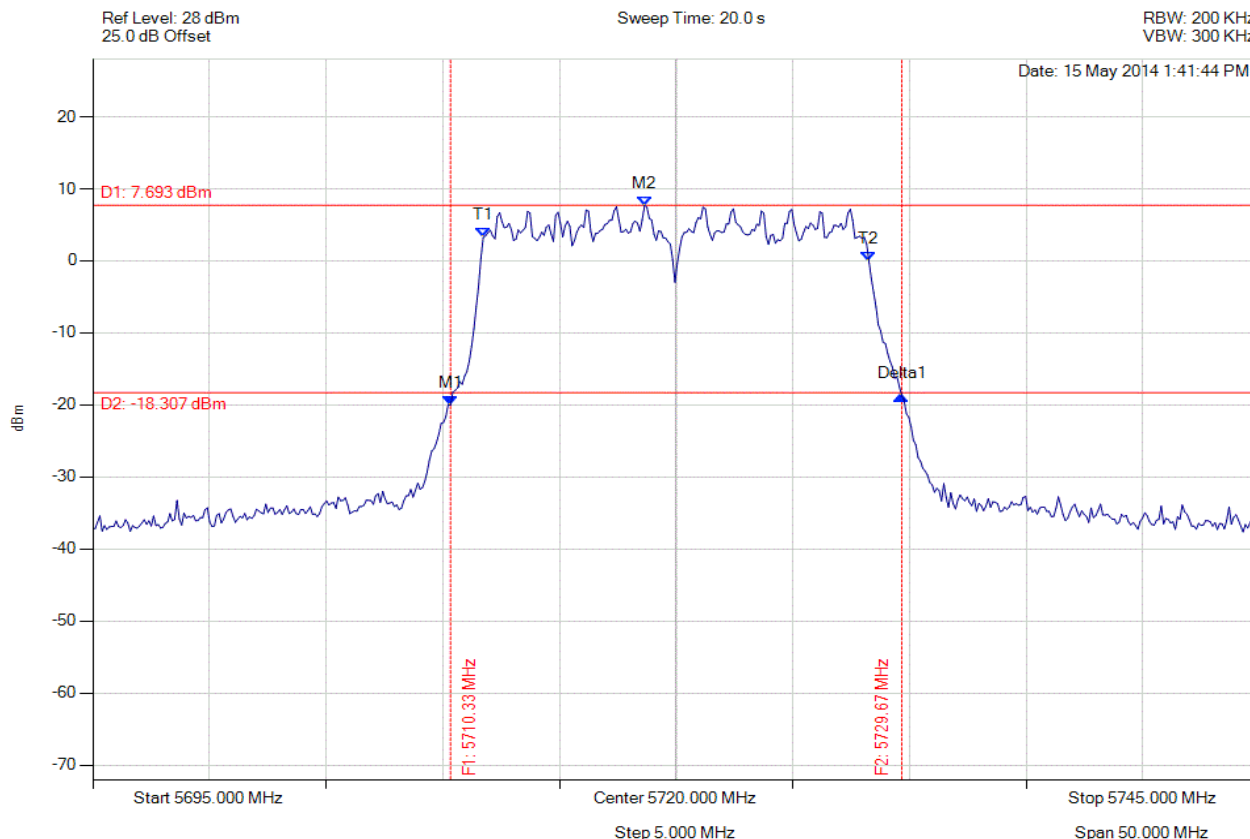
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5709.729 MHz : -22.323 dBm M2 : 5721.152 MHz : 6.082 dBm Delta1 : 20.140 MHz : 0.842 dB T1 : 5711.633 MHz : -1.733 dBm T2 : 5728.267 MHz : -1.402 dBm OBW : 16.633 MHz	Channel Frequency: 5720.00 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

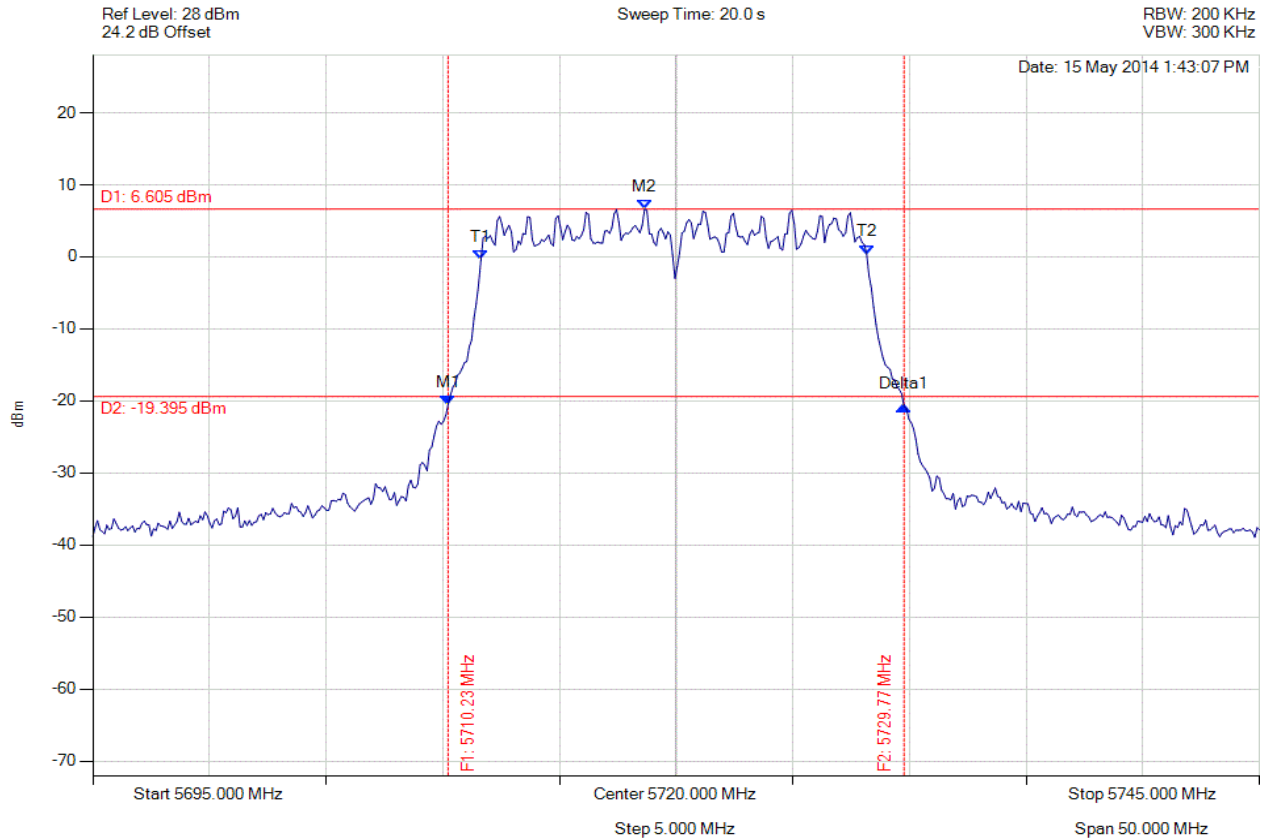


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	ERROR!!! MULTIPLE TEST RESULTS MATCHES...	Measured 26 dB Bandwidth: 19.339 MHz Measured 99% Bandwidth: 16.533 MHz ERROR!!! MULTIPLE TEST RESULTS MATCHES...

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

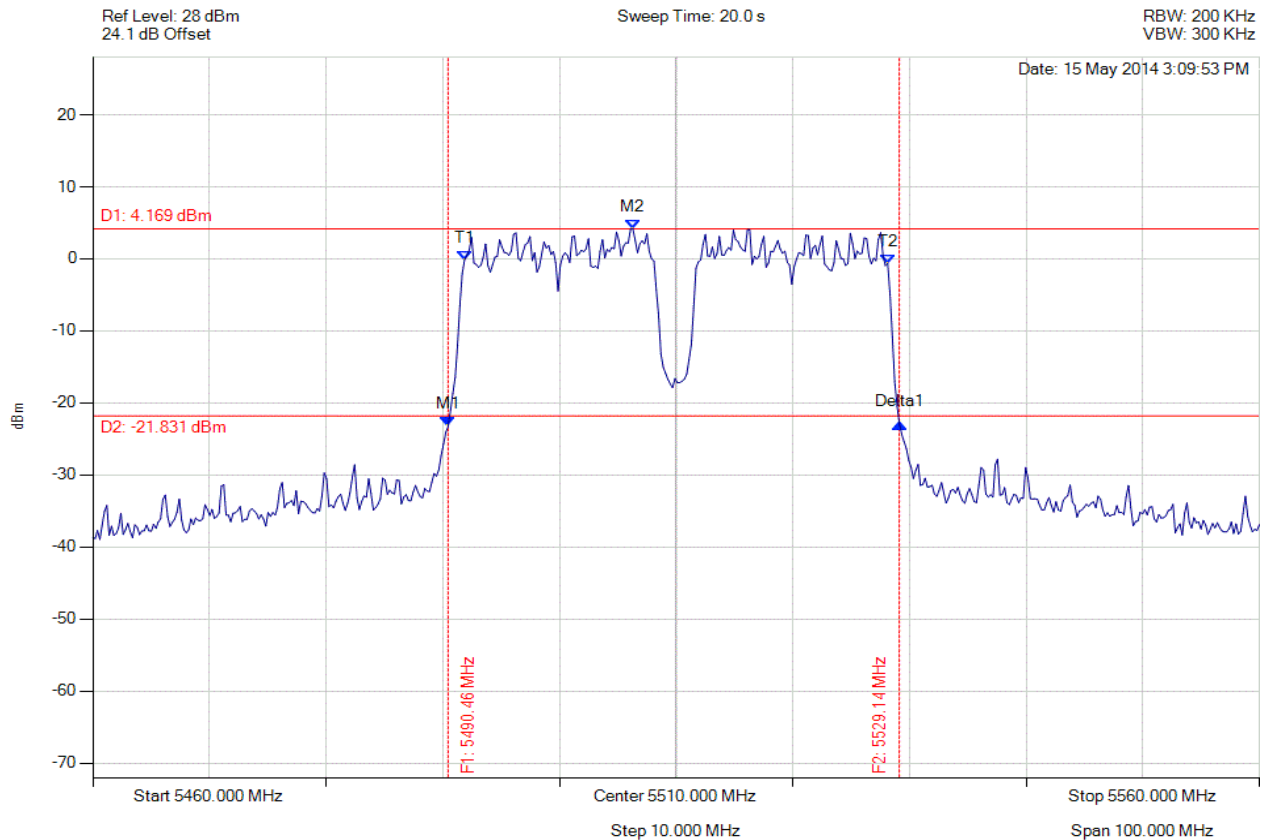


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5710.230 MHz : -20.489 dBm M2 : 5718.647 MHz : 6.605 dBm Delta1 : 19.539 MHz : -0.275 dB T1 : 5711.633 MHz : -0.442 dBm T2 : 5728.166 MHz : 0.382 dBm OBW : 16.533 MHz	Measured 26 dB Bandwidth: 19.539 MHz Measured 99% Bandwidth: 16.533 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

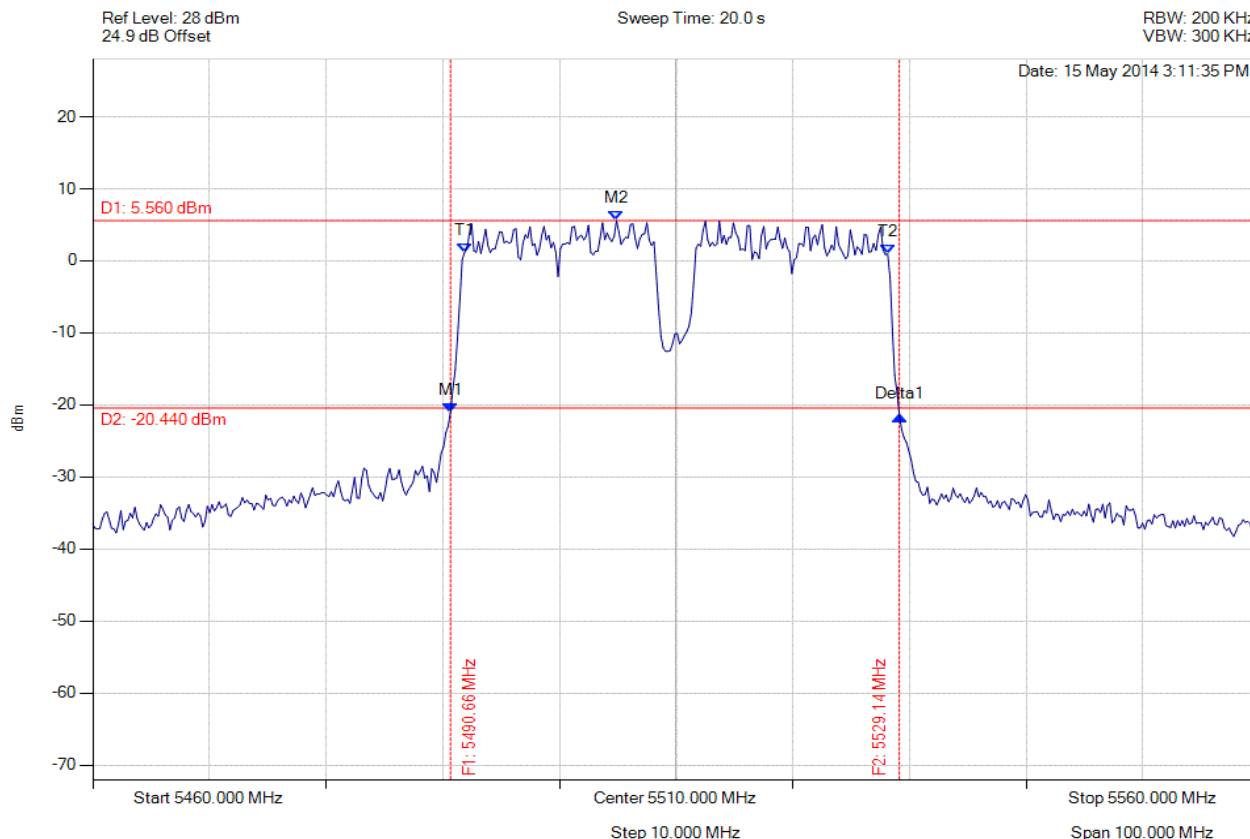


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.461 MHz : -23.277 dBm M2 : 5506.293 MHz : 4.169 dBm Delta1 : 38.677 MHz : 0.397 dB T1 : 5491.864 MHz : -0.145 dBm T2 : 5528.136 MHz : -0.641 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.677 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

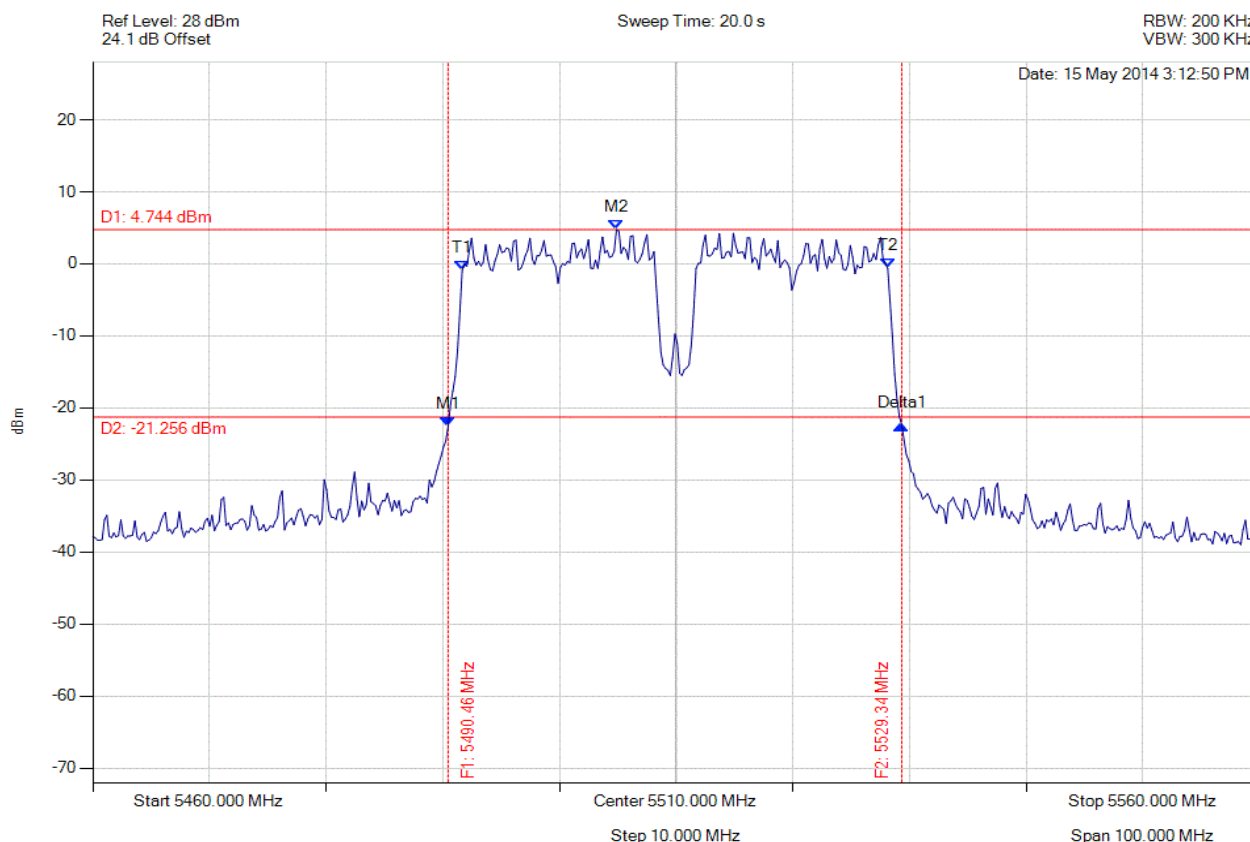


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.661 MHz : -20.999 dBm M2 : 5504.890 MHz : 5.560 dBm Delta1 : 38.477 MHz : -0.527 dB T1 : 5491.864 MHz : 1.161 dBm T2 : 5528.136 MHz : 0.959 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.477 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5490.461 MHz : -22.543 dBm M2 : 5504.890 MHz : 4.744 dBm Delta1 : 38.878 MHz : 0.081 dB T1 : 5491.663 MHz : -0.908 dBm T2 : 5528.136 MHz : -0.586 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 38.878 MHz Measured 99% Bandwidth: 36.473 MHz

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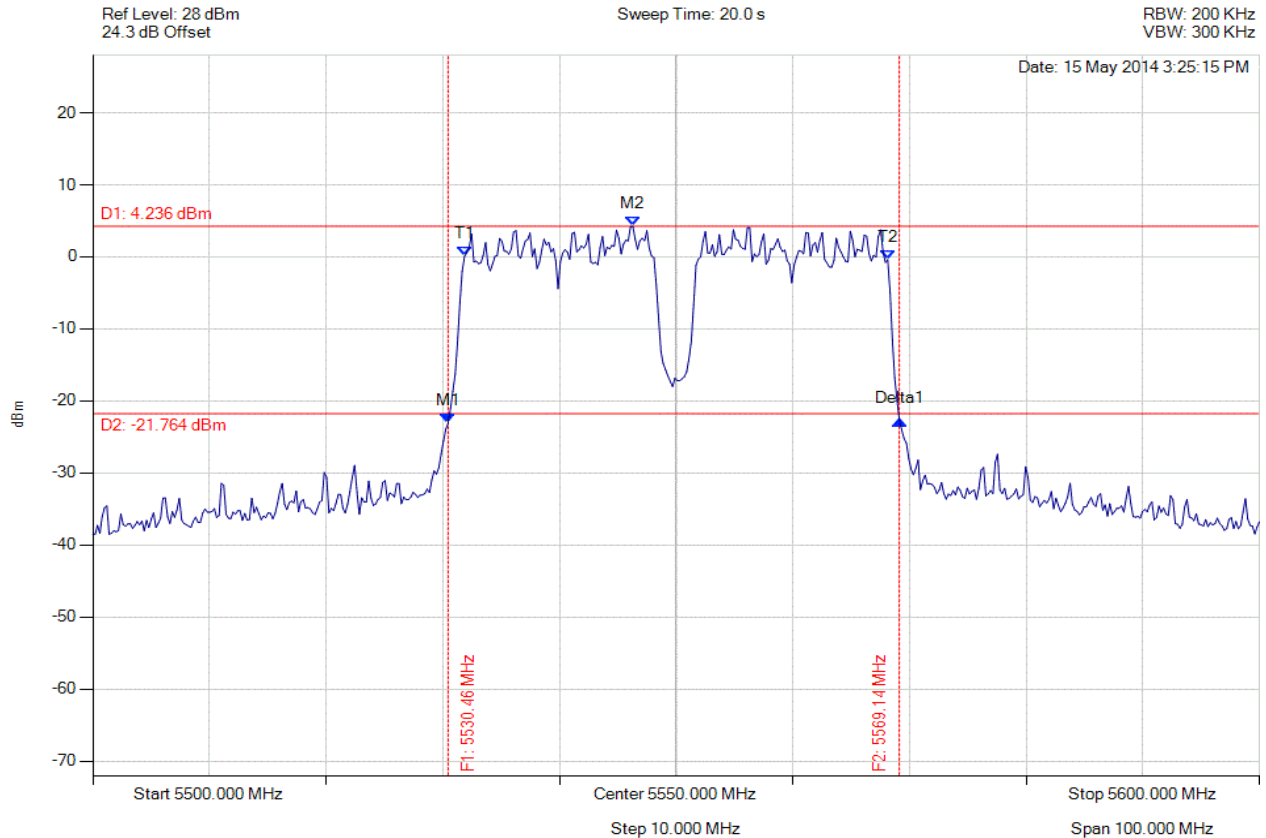


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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc



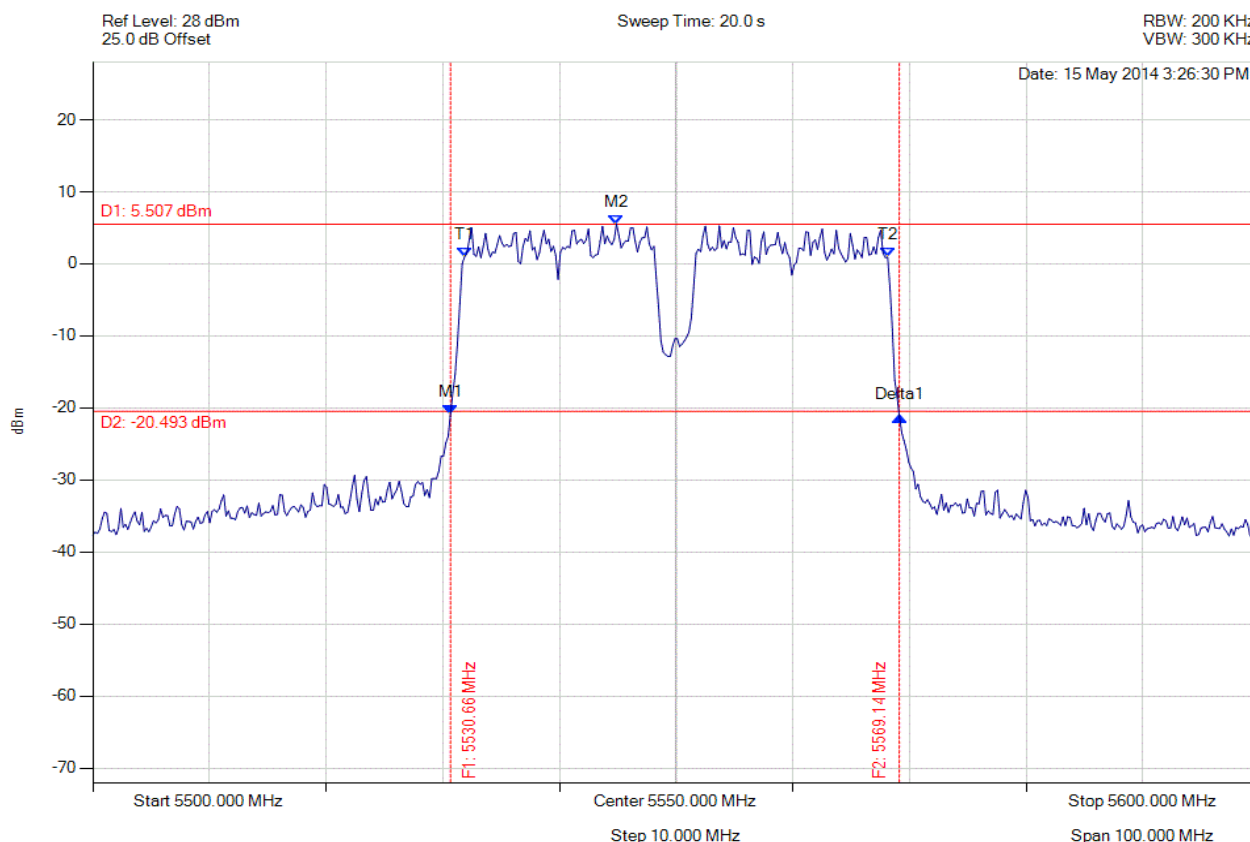
Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5530.461 MHz : -23.100 dBm M2 : 5546.293 MHz : 4.236 dBm Delta1 : 38.677 MHz : 0.407 dB T1 : 5531.864 MHz : 0.075 dBm T2 : 5568.136 MHz : -0.391 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.677 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc

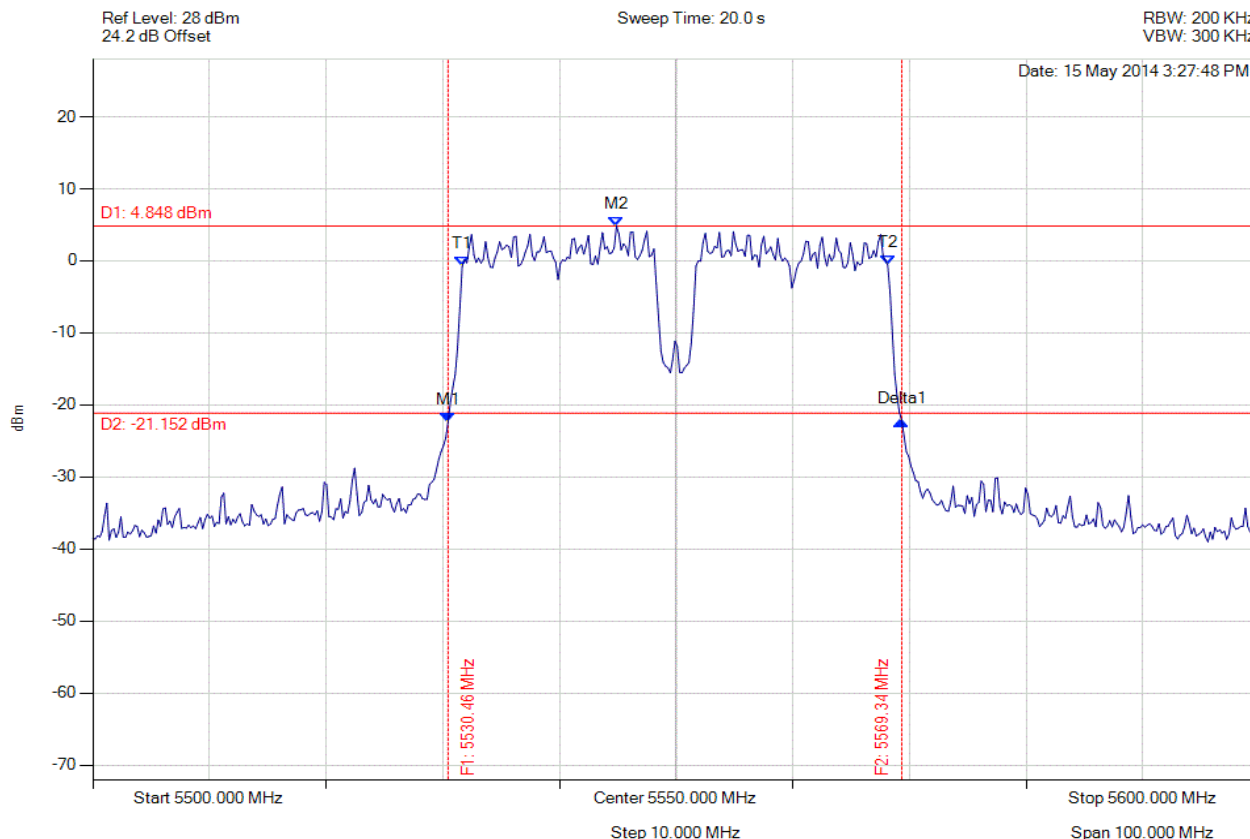


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5530.661 MHz : -20.826 dBm M2 : 5544.890 MHz : 5.507 dBm Delta1 : 38.477 MHz : -0.397 dB T1 : 5531.864 MHz : 0.963 dBm T2 : 5568.136 MHz : 0.913 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.477 MHz Measured 99% Bandwidth: 36.273 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc

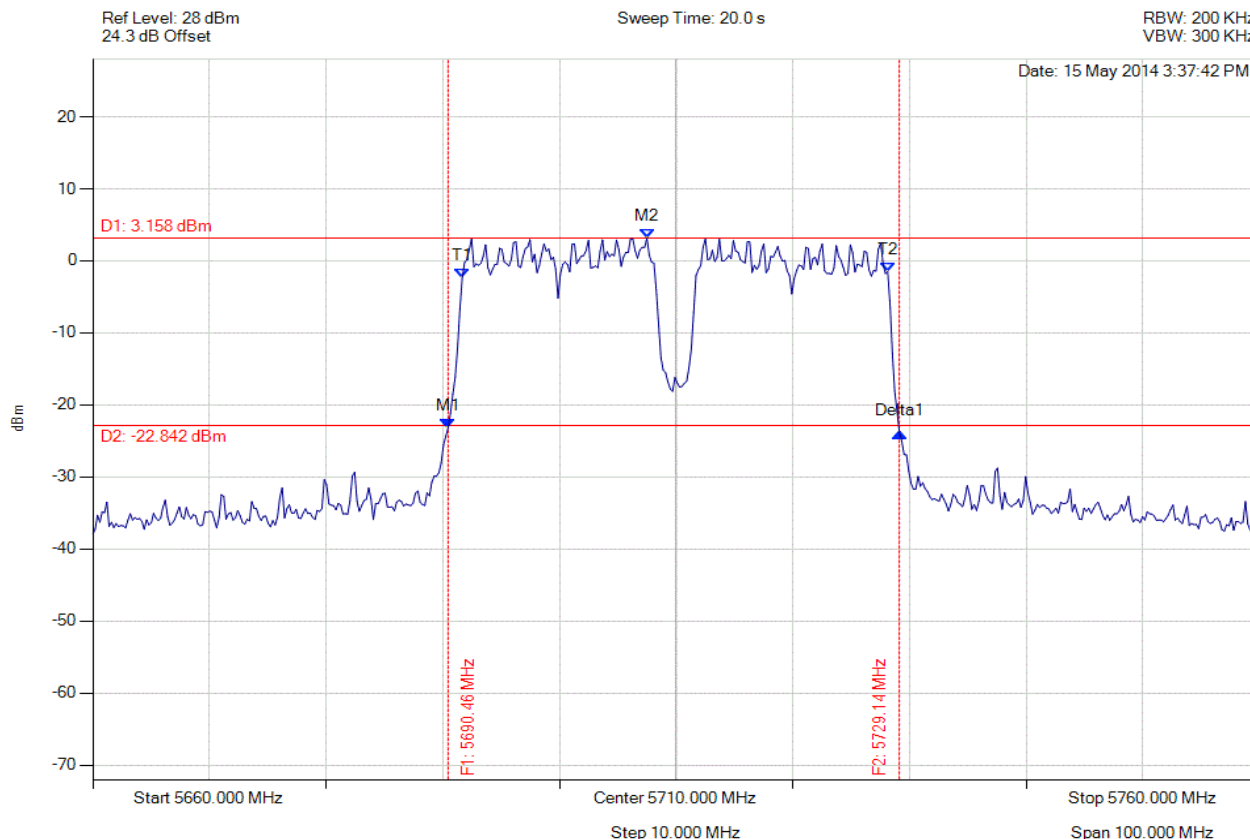


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5530.461 MHz : -22.329 dBm M2 : 5544.890 MHz : 4.848 dBm Delta1 : 38.878 MHz : 0.116 dB T1 : 5531.663 MHz : -0.765 dBm T2 : 5568.136 MHz : -0.564 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 38.878 MHz Measured 99% Bandwidth: 36.473 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain a, Temp: Ambient, Voltage: 12 Vdc

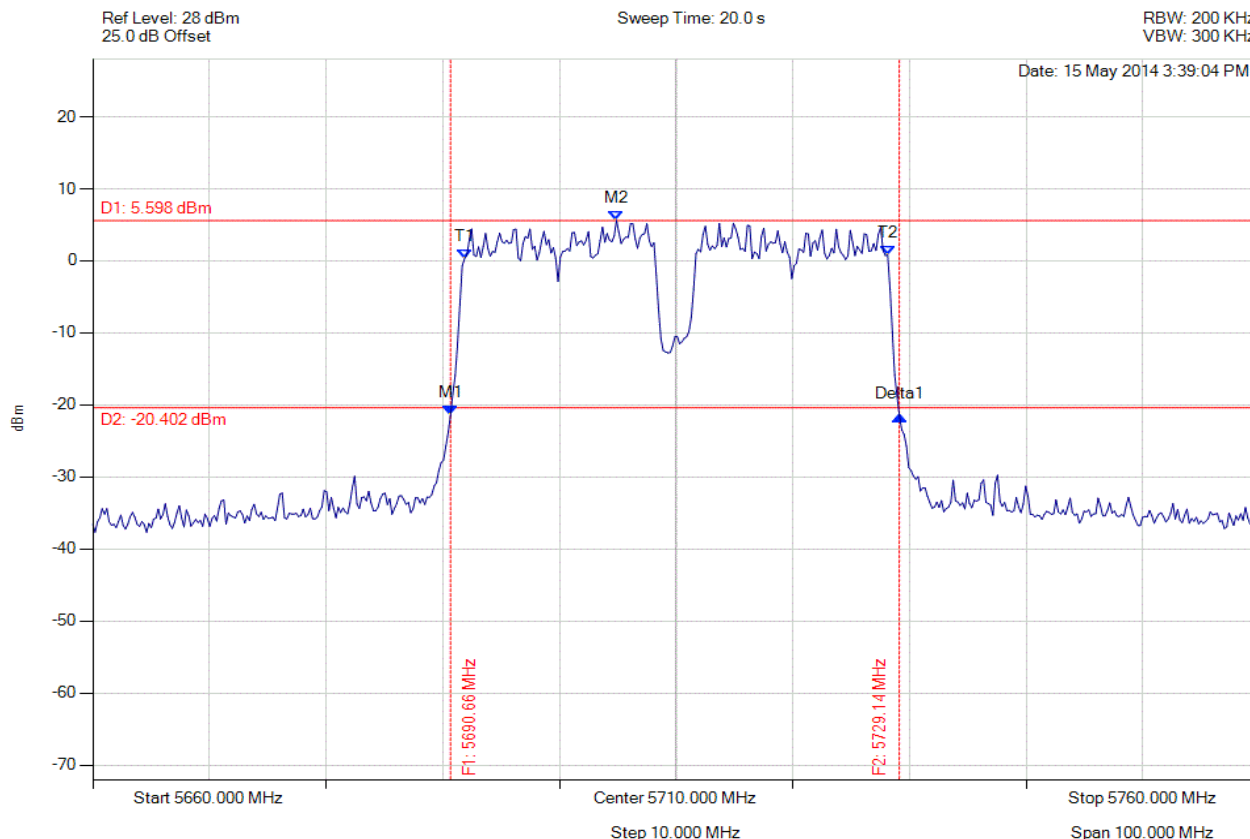


Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5690.461 MHz : -23.198 dBm M2 : 5707.495 MHz : 3.158 dBm Delta1 : 38.677 MHz : -0.622 dB T1 : 5691.663 MHz : -2.402 dBm T2 : 5728.136 MHz : -1.504 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 38.677 MHz Measured 99% Bandwidth: 36.473 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain b, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5690.661 MHz : -21.459 dBm M2 : 5704.890 MHz : 5.598 dBm Delta1 : 38.477 MHz : -0.065 dB T1 : 5691.864 MHz : 0.304 dBm T2 : 5728.136 MHz : 0.797 dBm OBW : 36.273 MHz	Measured 26 dB Bandwidth: 38.477 MHz Measured 99% Bandwidth: 36.273 MHz

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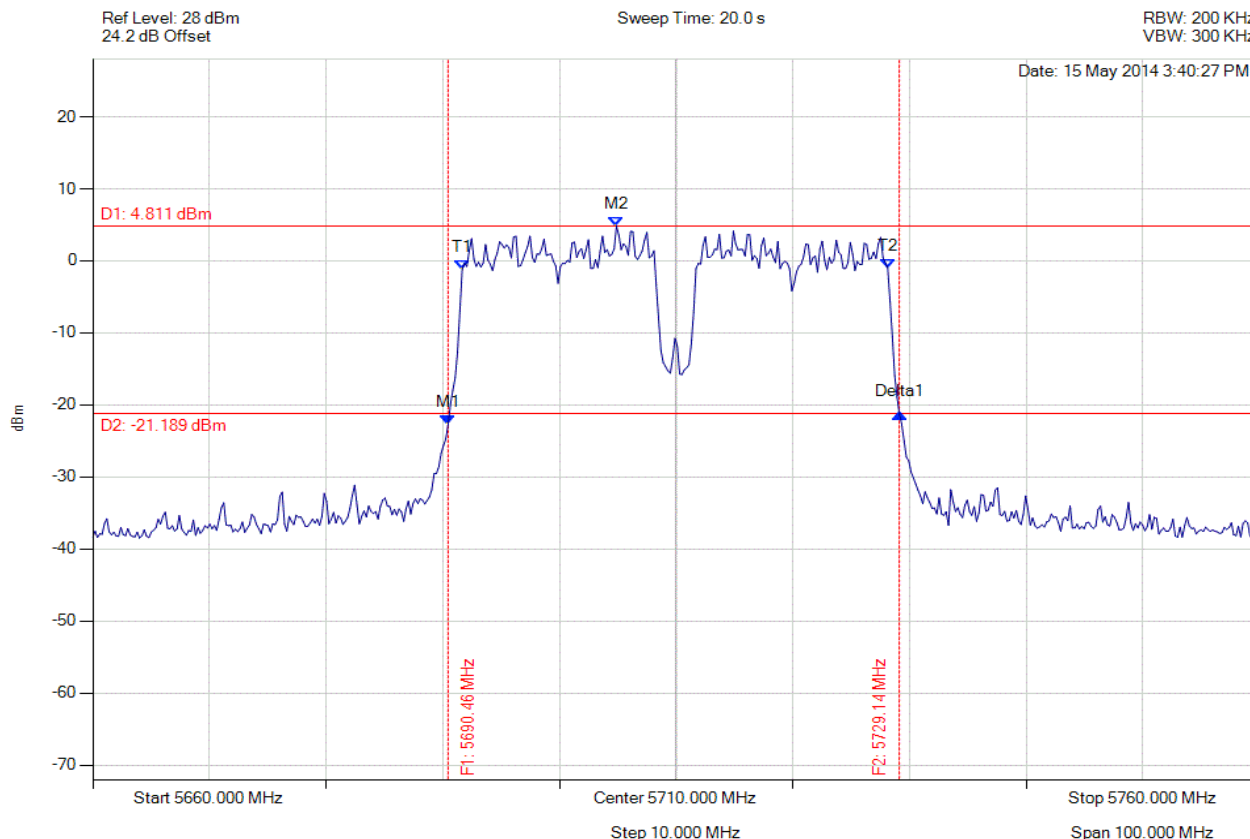


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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain c, Temp: Ambient, Voltage: 12 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5690.461 MHz : -22.705 dBm M2 : 5704.890 MHz : 4.811 dBm Delta1 : 38.677 MHz : 1.460 dB T1 : 5691.663 MHz : -1.205 dBm T2 : 5728.136 MHz : -1.009 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 38.677 MHz Measured 99% Bandwidth: 36.473 MHz

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