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FCC RADIO TEST REPORT

Applicant's company	Cisco Systems, Inc.
Applicant Address	170 West Tasman Drive San Jose, CA 95134 USA
FCC ID	UDX-60043010
Manufacturer's company	Accton Technology Corporation
Manufacturer Address	1, Creation Road 3, Hsinchu Science Park Hsinchu 20077, Taiwan R.O.C.

Product Name	802.11a/b/g/n/ac Wireless Access Point
Brand Name	CISCO
Model No.	MR84-HW
Test Rule Part(s)	47 CFR FCC Part 15 Subpart E § 15.407
Test Freq. Range	5150 ~ 5250 MHz / 5725 ~ 5850 MHz
Received Date	Jan. 27, 2016
Final Test Date	Jun. 02, 2016
Submission Type	Original Equipment

Statement

Test result included is for the IEEE 802.11n and IEEE 802.11a/ac of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.10-2013, 47 CFR FCC Part 15 Subpart E, KDB789033 D02 v01r02, KDB662911 D01 v02r01, KDB644545 D03 v01, ET Docket No. 13-49; FCC 16-24.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.





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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR641615AB	Rev. 01	Initial issue of report	Jul. 13, 2016

1. VERIFICATION OF COMPLIANCE

Product Name : 802.11a/b/g/n/ac Wireless Access Point
Brand Name : CISCO
Model No. : MR84-HW
Applicant : Cisco Systems, Inc.
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart E § 15.407

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jan. 27, 2016 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.



Sam Chen

SPORTON INTERNATIONAL INC.

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart E			
Part	Rule Section	Description of Test	Result
4.1	15.207	AC Power Line Conducted Emissions	Complies
4.2	15.407(a)	26dB Spectrum Bandwidth and 99% Occupied Bandwidth	Complies
4.3	15.407(e)	6dB Spectrum Bandwidth	Complies
4.4	15.407(a)	Maximum Conducted Output Power	Complies
4.5	15.407(a)	Power Spectral Density	Complies
4.6	15.407(b)	Radiated Emissions	Complies
4.7	15.407(b)	Band Edge Emissions	Complies
4.8	15.407(g)	Frequency Stability	Complies
4.9	15.203	Antenna Requirements	Complies

3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Product Type	For Radio 2: WLAN (4TX, 4RX) For Radio 3: WLAN (1TX, 1RX)
Radio Type	Intentional Transceiver
Power Type	From PoE
Modulation	IEEE 802.11a: OFDM IEEE 802.11n/ac: see the below table
Data Modulation	IEEE 802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Data Rate (Mbps)	IEEE 802.11a: OFDM (6/9/12/18/24/36/48/54) IEEE 802.11n/ac: see the below table
Frequency Range	5150 ~ 5250 MHz / 5725 ~ 5850 MHz
Channel Number	9 for 20MHz bandwidth ; 4 for 40MHz bandwidth 2 for 80MHz bandwidth
Channel Band Width (99%)	<p><For Radio 2 Non-beamforming Mode></p> <p>For Mode 1:</p> <p>Band 1:</p> <p>IEEE 802.11a: 16.50 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 17.71 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.18 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 17.97 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 37.19 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 75.83 MHz</p> <p>Band 4:</p> <p>IEEE 802.11a: 22.49 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 27.18 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.32 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 33.43 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 38.78 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz</p>

	<p>For Mode 2:</p> <p>Band 1:</p> <p>IEEE 802.11a: 16.50 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 17.63 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.03 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 75.83 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 18.06 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 37.19 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.41 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 75.83 MHz</p> <p>Band 4:</p> <p>IEEE 802.11a: 28.91 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 27.18 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.32 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 32.74 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 38.78 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 75.83 MHz</p> <p>For Mode 3:</p> <p>Band 1:</p> <p>IEEE 802.11a: 16.58 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 17.63 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.03 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 75.83 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 18.06 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 37.19 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz</p> <p>Band 4:</p> <p>IEEE 802.11a: 16.50 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 17.63 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.03 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 17.97 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 37.34 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz</p>
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	<p>For Mode 4:</p> <p>Band 1:</p> <p>IEEE 802.11a: 16.50 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 17.63 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.03 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 75.83 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 17.97 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 37.19 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 75.83 MHz</p> <p>Band 4:</p> <p>IEEE 802.11a: 16.58 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 17.63 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.03 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 18.06 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 37.34 MHz</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 75.83 MHz</p> <p><For Radio 2 Beamforming Mode></p> <p>For Mode 1:</p> <p>Band 1:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 17.80 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.32 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 76.99 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT20): 17.80 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT40): 36.18 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss3 (VHT20): 18.06 MHz</p> <p>IEEE 802.11ac MCS0/Nss3 (VHT40): 37.19 MHz</p> <p>IEEE 802.11ac MCS0/Nss3 (VHT80): 76.41 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz</p> <p>Band 4:</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 20.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 36.04 MHz</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT20): 17.89 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT40): 36.32 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80): 76.12 MHz</p> <p>IEEE 802.11ac MCS0/Nss3 (VHT20): 29.78 MHz</p> <p>IEEE 802.11ac MCS0/Nss3 (VHT40): 47.76 MHz</p> <p>IEEE 802.11ac MCS0/Nss3 (VHT80): 76.70 MHz</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz</p>
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For Mode 2:

Band 1:

IEEE 802.11ac MCS0/Nss1 (VHT20): 17.71 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 36.18 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss2 (VHT20): 17.80 MHz
IEEE 802.11ac MCS0/Nss2 (VHT40): 36.04 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss3 (VHT20): 18.06 MHz
IEEE 802.11ac MCS0/Nss3 (VHT40): 37.48 MHz
IEEE 802.11ac MCS0/Nss3 (VHT80): 80.75 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz

Band 4:

IEEE 802.11ac MCS0/Nss1 (VHT20): 17.71 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 36.04 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss2 (VHT20): 17.89 MHz
IEEE 802.11ac MCS0/Nss2 (VHT40): 36.32 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss3 (VHT20): 30.65 MHz
IEEE 802.11ac MCS0/Nss3 (VHT40): 38.64 MHz
IEEE 802.11ac MCS0/Nss3 (VHT80): 78.15 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz

For Mode 3:

Band 1:

IEEE 802.11ac MCS0/Nss1 (VHT20): 17.71 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 36.18 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss2 (VHT20): 17.80 MHz
IEEE 802.11ac MCS0/Nss2 (VHT40): 36.04 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss3 (VHT20): 18.06 MHz
IEEE 802.11ac MCS0/Nss3 (VHT40): 37.19 MHz
IEEE 802.11ac MCS0/Nss3 (VHT80): 76.41 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz

Band 4:

IEEE 802.11ac MCS0/Nss1 (VHT20): 17.71 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 36.18 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss2 (VHT20): 17.80 MHz
IEEE 802.11ac MCS0/Nss2 (VHT40): 36.18 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss3 (VHT20): 18.06 MHz
IEEE 802.11ac MCS0/Nss3 (VHT40): 37.48 MHz
IEEE 802.11ac MCS0/Nss3 (VHT80): 76.41 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz

For Mode 4:

Band 1:

IEEE 802.11ac MCS0/Nss1 (VHT20): 17.63 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 36.18 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss2 (VHT20): 17.80 MHz
IEEE 802.11ac MCS0/Nss2 (VHT40): 36.18 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80): 84.64 MHz
IEEE 802.11ac MCS0/Nss3 (VHT20): 18.06 MHz
IEEE 802.11ac MCS0/Nss3 (VHT40): 37.19 MHz
IEEE 802.11ac MCS0/Nss3 (VHT80): 76.41 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz

Band 4:

IEEE 802.11ac MCS0/Nss1 (VHT20): 17.63 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 36.18 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss2 (VHT20): 17.80 MHz
IEEE 802.11ac MCS0/Nss2 (VHT40): 36.32 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80): 76.12 MHz
IEEE 802.11ac MCS0/Nss3 (VHT20): 18.06 MHz
IEEE 802.11ac MCS0/Nss3 (VHT40): 37.48 MHz
IEEE 802.11ac MCS0/Nss3 (VHT80): 76.41 MHz
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 76.12 MHz

<For Radio 3 Mode>

For Mode 5:

Band 1:

IEEE 802.11a: 32.21 MHz
IEEE 802.11ac MCS0/Nss1 (VHT20): 35.08 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 39.22 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 76.70 MHz

Band 4:

IEEE 802.11a: 39.16 MHz
IEEE 802.11ac MCS0/Nss1 (VHT20): 40.29 MHz
IEEE 802.11ac MCS0/Nss1 (VHT40): 63.68 MHz
IEEE 802.11ac MCS0/Nss1 (VHT80): 87.70 MHz

<p>Maximum Conducted Output Power</p>	<p><For Radio 2 Non-beamforming Mode></p> <p>For Mode 1:</p> <p>Band 1:</p> <p>IEEE 802.11a: 16.07 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 15.90 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 16.02 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 15.85 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 16.18 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 15.96 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 16.18 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 16.01 dBm</p> <p>Band 4:</p> <p>IEEE 802.11a: 29.66 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 28.96 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 27.21 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 23.99 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 28.86 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 26.37 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 21.85 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 15.45 dBm</p> <p>For Mode 2:</p> <p>Band 1:</p> <p>IEEE 802.11a: 24.40 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 24.08 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 24.47 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 21.62 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 24.26 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 24.16 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 20.15 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 20.19 dBm</p> <p>Band 4:</p> <p>IEEE 802.11a: 28.96 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 28.96 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 27.26 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 23.99 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 28.86 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 26.37 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 21.85 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 20.06 dBm</p>
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	<p>For Mode 3:</p> <p>Band 1:</p> <p>IEEE 802.11a: 20.25 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 20.39 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 23.48 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 18.47 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 23.68 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 23.39 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 18.17 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 19.22 dBm</p> <p>Band 4:</p> <p>IEEE 802.11a: 25.81 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 26.03 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 25.79 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 23.10 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 26.02 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 25.99 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 22.72 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 18.80 dBm</p> <p>For Mode 4:</p> <p>Band 1:</p> <p>IEEE 802.11a: 20.23 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 19.95 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 23.07 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 18.47 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 25.34 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 23.95 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 17.97 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 20.19 dBm</p> <p>Band 4:</p> <p>IEEE 802.11a: 25.98 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 25.82 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 25.85 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 21.27 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT20): 25.75 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT40): 24.92 dBm</p> <p>IEEE 802.11ac MCS0/Nss4 (VHT80): 20.42 dBm</p> <p>IEEE 802.11ac MCS0/Nss2 (VHT80+80): 20.06 dBm</p>
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<For Radio 2 Beamforming Mode>
For Mode 1:

Band 1:

IEEE 802.11ac MCS0/Nss1 (VHT20): 10.07 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT40): 9.86 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT80): 9.87 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT20): 12.92 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT40): 12.95 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80): 13.10 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT20): 14.85 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT40): 14.93 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT80): 14.58 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80+80): 12.47 dBm

Band 4:

IEEE 802.11ac MCS0/Nss1 (VHT20): 22.78 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT40): 22.94 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT80): 22.96 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT20): 26.98 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT40): 25.97 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80): 22.03 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT20): 27.36 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT40): 25.77 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT80): 24.33 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80+80): 11.78 dBm

For Mode 2:

Band 1:

IEEE 802.11ac MCS0/Nss1 (VHT20): 18.48 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT40): 18.48 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT80): 16.91 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT20): 21.49 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT40): 21.36 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80): 20.75 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT20): 23.03 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT40): 23.10 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT80): 22.08 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80+80): 21.01 dBm

Band 4:

IEEE 802.11ac MCS0/Nss1 (VHT20): 24.94 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT40): 24.95 dBm
 IEEE 802.11ac MCS0/Nss1 (VHT80): 23.97 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT20): 27.94 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT40): 25.97 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80): 23.17 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT20): 27.36 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT40): 24.77 dBm
 IEEE 802.11ac MCS0/Nss3 (VHT80): 21.42 dBm
 IEEE 802.11ac MCS0/Nss2 (VHT80+80): 19.39 dBm

For Mode 3:

Band 1:

IEEE 802.11ac MCS0/Nss1 (VHT20): 17.39 dBm
IEEE 802.11ac MCS0/Nss1 (VHT40): 17.58 dBm
IEEE 802.11ac MCS0/Nss1 (VHT80): 16.91 dBm
IEEE 802.11ac MCS0/Nss2 (VHT20): 20.58 dBm
IEEE 802.11ac MCS0/Nss2 (VHT40): 20.39 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80): 17.65 dBm
IEEE 802.11ac MCS0/Nss3 (VHT20): 22.08 dBm
IEEE 802.11ac MCS0/Nss3 (VHT40): 22.25 dBm
IEEE 802.11ac MCS0/Nss3 (VHT80): 18.14 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 20.11 dBm

Band 4:

IEEE 802.11ac MCS0/Nss1 (VHT20): 20.13 dBm
IEEE 802.11ac MCS0/Nss1 (VHT40): 19.76 dBm
IEEE 802.11ac MCS0/Nss1 (VHT80): 20.03 dBm
IEEE 802.11ac MCS0/Nss2 (VHT20): 22.94 dBm
IEEE 802.11ac MCS0/Nss2 (VHT40): 22.95 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80): 22.93 dBm
IEEE 802.11ac MCS0/Nss3 (VHT20): 24.31 dBm
IEEE 802.11ac MCS0/Nss3 (VHT40): 24.02 dBm
IEEE 802.11ac MCS0/Nss3 (VHT80): 19.58 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 19.39 dBm

For Mode 4:

Band 1:

IEEE 802.11ac MCS0/Nss1 (VHT20): 16.60 dBm
IEEE 802.11ac MCS0/Nss1 (VHT40): 16.85 dBm
IEEE 802.11ac MCS0/Nss1 (VHT80): 10.92 dBm
IEEE 802.11ac MCS0/Nss2 (VHT20): 19.45 dBm
IEEE 802.11ac MCS0/Nss2 (VHT40): 19.62 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80): 18.63 dBm
IEEE 802.11ac MCS0/Nss3 (VHT20): 21.73 dBm
IEEE 802.11ac MCS0/Nss3 (VHT40): 21.41 dBm
IEEE 802.11ac MCS0/Nss3 (VHT80): 19.06 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 20.11 dBm

Band 4:

IEEE 802.11ac MCS0/Nss1 (VHT20): 16.80 dBm
IEEE 802.11ac MCS0/Nss1 (VHT40): 16.96 dBm
IEEE 802.11ac MCS0/Nss1 (VHT80): 16.36 dBm
IEEE 802.11ac MCS0/Nss2 (VHT20): 19.91 dBm
IEEE 802.11ac MCS0/Nss2 (VHT40): 19.98 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80): 19.98 dBm
IEEE 802.11ac MCS0/Nss3 (VHT20): 21.74 dBm
IEEE 802.11ac MCS0/Nss3 (VHT40): 21.64 dBm
IEEE 802.11ac MCS0/Nss3 (VHT80): 18.57 dBm
IEEE 802.11ac MCS0/Nss2 (VHT80+80): 19.39 dBm

	<p><For Radio 3 Mode></p> <p>For Mode 5:</p> <p>Band 1:</p> <p>IEEE 802.11a: 21.26 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 21.46 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 17.46 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 11.12 dBm</p> <p>Band 4:</p> <p>IEEE 802.11a: 20.78 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT20): 20.19 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT40): 21.07 dBm</p> <p>IEEE 802.11ac MCS0/Nss1 (VHT80): 18.39 dBm</p>
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Note: The MIMO transmission mode is correlated.

Items	Description	
Communication Mode	<input checked="" type="checkbox"/> IP Based (Load Based)	<input type="checkbox"/> Frame Based
Beamforming Function	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming
Operate Condition	<input type="checkbox"/> Indoor	<input checked="" type="checkbox"/> Outdoor

Note: The Radio 1 and Radio 2 has beamforming function for 802.11n/ac.

Antenna and Band width

Antenna	Single (TX)			Four (TX)		
	20 MHz	40 MHz	80 MHz	20 MHz	40 MHz	80 MHz
IEEE 802.11a	V	X	X	V	X	X
IEEE 802.11n	V	V	X	V	V	X
IEEE 802.11ac	V	V	V	V	V	V

IEEE 11n/ac Spec.

Protocol		Number of Transmit Chains (NTX)	Data Rate / MCS
Radio 2	802.11n (HT20)	4	MCS 0-31
	802.11n (HT40)	4	MCS 0-31
	802.11ac (VHT20)	4	MCS 0-9/Nss1-4
	802.11ac (VHT40)	4	MCS 0-9/Nss1-4
	802.11ac (VHT80)	4	MCS 0-9/Nss1-4
Radio 3	802.11n (HT20)	1	MCS 0-7
	802.11n (HT40)	1	MCS 0-7
	802.11ac (VHT20)	1	MCS 0-9/Nss1
	802.11ac (VHT40)	1	MCS 0-9/Nss1
	802.11ac (VHT80)	1	MCS 0-9/Nss1
<p>Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). Then EUT supports HT20 and HT40.</p> <p>Note 2: IEEE Std. 802.11ac modulation consists of VHT20, VHT40, VHT80 and VHT160 (VHT: Very High Throughput). Then EUT supports VHT20, VHT40 and VHT80.</p> <p>Note 3: Modulation modes consist of below configuration: HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac</p>			

3.2. Accessories

Others
Wall-mounted rack*1
Antenna cable*12 for Set 4 use only (1. Long antenna cable*4, shielded 3m ; 2. Middle antenna cable*4, shielded 1.5m ; 3. Short antenna cable*4, shielded 0.6m)

3.3. Table for Filed Antenna

Radio	Set	Brand	P/N	Antenna Type	Connector	Gain		
						2.4GHz	5GHz	Buletooth
Radio 1/ Radio 2	1	Grand-Tek	ANT-20	Omni	N-Plug	Note 1		-
	2	Grand-Tek	ANT-25	Panel	N-Plug			-
	3	Grand-Tek	MA-ANT-27	Panel	N-Plug			-
	4	CISCO	AIR-ANT2513P4M-N	Patch	N-female bulkhead			-
Radio 3	5	Grand-Tek	610-43060	Metal	I-pex	6.30	5.40	-
Radio 4	6	Grand-Tek	610-43050	Metal	I-pex	-	-	7.30

Note1:

Radio	Set	Chain	Gain (dBi)		Internal Cable loss	External Cable loss	True Gain (dBi)	
			2.4GHz	5GHz			2.4GHz	5GHz
Radio 1/ Radio 2	1	1	4	7	1.4	N/A	2.6	5.6
		2	4	7	1.6		2.4	5.4
		3	4	7	1.6		2.4	5.4
		4	4	7	1.4		2.6	5.6
	2	1	8.1	6.5	1.4	Note2	6.7	5.1
		2	8.1	6.5	1.6		6.5	4.9
		3	8.1	6.5	1.6		6.5	4.9
		4	8.1	6.5	1.4		6.7	5.1
	3	1	9.8	11.3	1.4	Note2	8.4	9.9
		2	9.8	11.3	1.6		8.2	9.7
		3	9.8	11.3	1.6		8.2	9.7
		4	9.8	11.3	1.4		8.4	9.9
	4	1	13	13	1.4	1.6 Note3	10	10
		2	13	13	1.6		9.8	9.8
		3	13	13	1.6		9.8	9.8
		4	13	13	1.4		10	10

Note2: Antenna gain is including cable loss

Note3: This antenna can be used with long/middle/short antenna cable, due to the cable loss of long antenna cable is maximum, therefore the testing will use long antenna cable.

Note4:

The EUT has six sets of antenna. Each set has four antennas for set 1~4.

The EUT has four radios, Radio 1 supports WLAN 2.4GHz, Radio 2 supports WLAN 5GHz, Radio 3 supports WLAN 2.4GHz + 5GHz (scanning radio) and Radio 4 supports Bluetooth function.

<For Radio 1 / 2.4GHz and Radio 2 / 5GHz Functions>

Chain 1, Chain 2, Chain 3 and Chain 4 can be used as transmitting/receiving antenna.

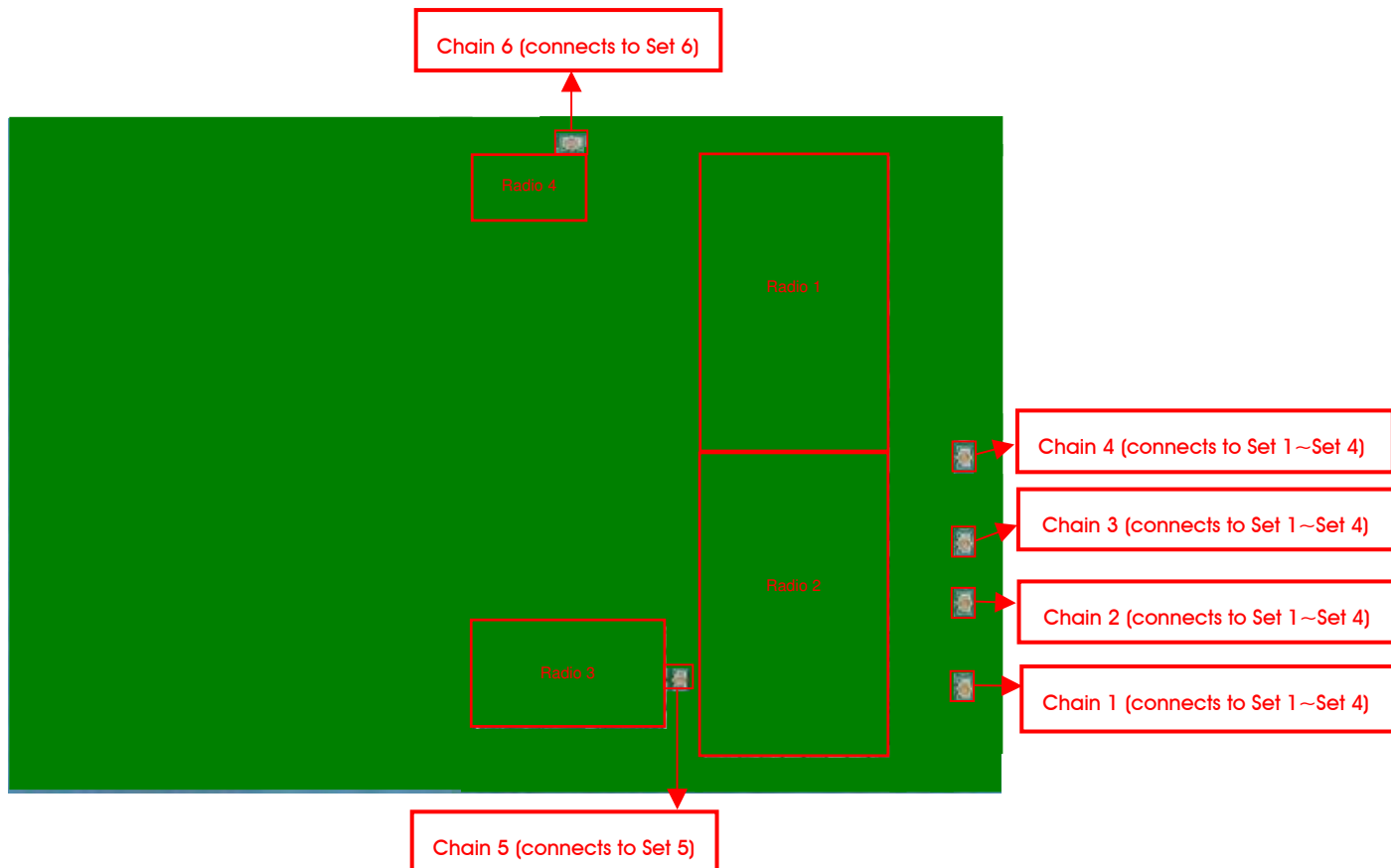
Chain 1, Chain 2, Chain 3 and Chain 4 could transmit/receive simultaneously.

<For Radio 3 / 2.4GHz + 5GHz Functions>

Only Chain 5 could transmit/receive.

<For Radio 4 / Bluetooth Functions>

Only Chain 6 could transmit/receive.



3.4. Table for Carrier Frequencies

There are three bandwidth systems.

For 20MHz bandwidth systems, use Channel 36, 40, 44, 48, 149, 153, 157, 161, 165.

For 40MHz bandwidth systems, use Channel 38, 46, 151, 159.

For 80MHz bandwidth systems, use Channel 42, 155.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5150~5250 MHz Band 1	36	5180 MHz	44	5220 MHz
	38	5190 MHz	46	5230 MHz
	40	5200 MHz	48	5240 MHz
	42	5210 MHz	-	-
5725~5850 MHz Band 4	149	5745 MHz	157	5785 MHz
	151	5755 MHz	159	5795 MHz
	153	5765 MHz	161	5805 MHz
	155	5775 MHz	165	5825 MHz

3.5. Table for 80+80 MHz Mode

Type	Channel No.	Frequency
1	42+155	5210+5775 MHz

3.6. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

For Radio 2:

Test Items	Mode		Data Rate	Channel	Chain
AC Power Conducted Emission	Normal Link		-	-	-
Max. Conducted Output Power	<For Non-Beamforming Mode>				
	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss4	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss4	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss4	42/155	1+2+3+4
	<For Beamforming Mode>				
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss2	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss2	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss2	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss3	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss3	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss3	42/155	1+2+3+4

Power Spectral Density	<For Non-Beamforming Mode>				
	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss4	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss4	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss4	42/155	1+2+3+4
	<For Beamforming Mode>				
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss2	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss2	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss2	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss3	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss3	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss3	42/155	1+2+3+4
	26dB Spectrum Bandwidth & 99% Occupied Bandwidth Measurement	<For Non-Beamforming Mode>			
11a/BPSK		Band 1&4	6Mbps	36/40/48/149/157/165	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss1	42/155	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss4	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss4	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss4	42/155	1+2+3+4
<For Beamforming Mode>					
11ac VHT20		Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss1	42/155	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss2	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss2	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss2	42/155	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss3	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss3	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss3	42/155	1+2+3+4

6dB Spectrum Bandwidth Measurement	<For Non-Beamforming Mode>				
	11a/BPSK	Band 4	6Mbps	149/157/165	1+2+3+4
	11ac VHT20	Band 4	MCS0/Nss1	149/157/165	1+2+3+4
	11ac VHT40	Band 4	MCS0/Nss1	151/159	1+2+3+4
	11ac VHT80	Band 4	MCS0/Nss1	155	1+2+3+4
	11ac VHT20	Band 4	MCS0/Nss4	149/157/165	1+2+3+4
	11ac VHT40	Band 4	MCS0/Nss4	151/159	1+2+3+4
	11ac VHT80	Band 4	MCS0/Nss4	155	1+2+3+4
	<For Beamforming Mode>				
	11ac VHT20	Band 4	MCS0/Nss1	149/157/165	1+2+3+4
	11ac VHT40	Band 4	MCS0/Nss1	151/159	1+2+3+4
	11ac VHT80	Band 4	MCS0/Nss1	155	1+2+3+4
	11ac VHT20	Band 4	MCS0/Nss2	149/157/165	1+2+3+4
	11ac VHT40	Band 4	MCS0/Nss2	151/159	1+2+3+4
	11ac VHT80	Band 4	MCS0/Nss2	155	1+2+3+4
	11ac VHT20	Band 4	MCS0/Nss3	149/157/165	1+2+3+4
	11ac VHT40	Band 4	MCS0/Nss3	151/159	1+2+3+4
11ac VHT80	Band 4	MCS0/Nss3	155	1+2+3+4	
Radiated Emission Below 1GHz	Normal Link		-	-	-

Radiated Emission Above 1GHz	<For Non-Beamforming Mode>				
	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss4	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss4	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss4	42/155	1+2+3+4
	<For Beamforming Mode>				
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss2	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss2	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss2	42/155	1+2+3+4
	11ac VHT20	Band 1&4	MCS0/Nss3	36/40/48/149/157/165	1+2+3+4
	11ac VHT40	Band 1&4	MCS0/Nss3	38/46/151/159	1+2+3+4
	11ac VHT80	Band 1&4	MCS0/Nss3	42/155	1+2+3+4
	Band Edge Emission	<For Non-Beamforming Mode>			
11a/BPSK		Band 1&4	6Mbps	36/40/48/149/157/165	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss1	42/155	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss4	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss4	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss4	42/155	1+2+3+4
<For Beamforming Mode>					
11ac VHT20		Band 1&4	MCS0/Nss1	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss1	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss1	42/155	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss2	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss2	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss2	42/155	1+2+3+4
11ac VHT20		Band 1&4	MCS0/Nss3	36/40/48/149/157/165	1+2+3+4
11ac VHT40		Band 1&4	MCS0/Nss3	38/46/151/159	1+2+3+4
11ac VHT80		Band 1&4	MCS0/Nss3	42/155	1+2+3+4

Frequency Stability	20 MHz	Band 1&4	-	40/157	2
	40 MHz	Band 1&4	-	38/151	2
	80 MHz	Band 1&4	-	42/155	2

For 802.11ac MCS0/Nss2 VHT80+80 (Non-Beamforming and Beamforming) Mode

Test Items	Mode		Data Rate	Type	Channel	Chain
Max. Conducted Output Power Power Spectral Density 26dB Spectrum Bandwidth & 99% Occupied Bandwidth Measurement Radiated Emission Above 1GHz Band Edge Emission	11ac VHT80+80	Band 1&4	MCS0/Nss2	1	42	1+2
					155	3+4
26dB Spectrum Bandwidth & 99% Occupied Bandwidth	11ac VHT80+80	Band 1&4	MCS0/Nss2	1	42	1,2
					155	3,4
6dB Spectrum Bandwidth Measurement	11ac VHT80+80	Band 4	MCS0/Nss2	1	42	-
					155	3,4

For Radio 3:

Test Items	Mode		Data Rate	Channel	Chain
AC Power Conducted Emission	Normal Link		-	-	-
Max. Conducted Output Power	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	5
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	5
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	5
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	5
Power Spectral Density	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	5
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	5
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	5
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	5
26dB Spectrum Bandwidth & 99% Occupied Bandwidth Measurement	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	5
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	5
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	5
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	5

6dB Spectrum Bandwidth Measurement	11a/BPSK	Band 4	6Mbps	149/157/165	5
	11ac VHT20	Band 4	MCS0/Nss1	149/157/165	5
	11ac VHT40	Band 4	MCS0/Nss1	151/159	5
	11ac VHT80	Band 4	MCS0/Nss1	155	5
Radiated Emission Below 1GHz	Normal Link		-	-	-
Radiated Emission Above 1GHz	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	5
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	5
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	5
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	5
Band Edge Emission	11a/BPSK	Band 1&4	6Mbps	36/40/48/149/157/165	5
	11ac VHT20	Band 1&4	MCS0/Nss1	36/40/48/149/157/165	5
	11ac VHT40	Band 1&4	MCS0/Nss1	38/46/151/159	5
	11ac VHT80	Band 1&4	MCS0/Nss1	42/155	5
Frequency Stability	20 MHz	Band 1&4	-	40/157	5
	40 MHz	Band 1&4	-	38/151	5
	80 MHz	Band 1&4	-	42/155	5

Note 1: VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

Note 2: There are two modes for Radio 2, one is beamforming mode, and the other is non-beamforming mode for 802.11n/ac. All test results were recorded in the report.

Note 3: The PoE is for measurement only, would not be marketed.

The PoE information as below:

Power	Brand	Model
PoE	Motorola	PD-7001G

The following test modes were performed for all tests:

Conducted Emission test							
The radio 3 was performed at WLAN 2.4GHz and 5GHz and the worst case was found at 2.4GHz. The radio 1 and radio 2 was performed at antenna set 1-4, and the worst case was found at antenna set 1. So the measurement will follow above same test configuration.							
Mode	Set 1	Set 2	Set 3	Set 4	Set 5	Set 6	PoE
1	● Radio1/2.4G Radio2/5G	-	-	-	● Radio3/2.4G	● Radio4/BT	●

Radiated Emission test <Below 1GHz>									
Mode	Z axis	Y axis	Set 1	Set 2	Set 3	Set 4	Set 5	Set 6	PoE
1	●	-	● Radio1/2.4G Radio2/5G	-	-	-	● Radio3/2.4G	● Radio4/BT	●
2	-	●	● Radio1/2.4G Radio2/5G	-	-	-	● Radio3/2.4G	● Radio4/BT	●
3 Note1	●	-	● Radio1/2.4G Radio2/5G	-	-	-	● Radio3/5G	● Radio4/BT	●
4 Note2	●	-	-	● Radio1/2.4G Radio2/5G	-	-	● Radio3/5G	● Radio4/BT	●
5 Note2	●	-	-	-	● Radio1/2.4G Radio2/5G	-	● Radio3/5G	● Radio4/BT	●
6 Note2	●	-	-	-	-	● Radio1/2.4G Radio2/5G	● Radio3/5G	● Radio4/BT	●
Note1: Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode. Note2: Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~6 will follow this same test mode. Mode 6 generated the worst test result, so it was recorded in this report.									

Radiated Emission test<Above 1GHz>									
The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.									
Mode	Z axis	Y axis	Set 1	Set 2	Set 3	Set 4	Set 5	Set 6	PoE
1	●	-	●	-	-	-	-	-	●
2	●	-	-	●	-	-	-	-	●
3	●	-	-	-	●	-	-	-	●
4	●	-	-	-	-	●	-	-	●
5	●	-	-	-	-	-	●	-	●

Co-location MPE and Radiated Emission Co-location Test									
The radio 1 and radio 2 can equip with antenna set 1-4, and the maximum gain was found at antenna set 4. So the measurement will follow above same test configuration.									
Mode	Z axis	Y axis	Set 1	Set 2	Set 3	Set 4	Set 5	Set 6	PoE
1	●	-	-	-	-	● Radio1/2.4G Radio2/5G	● Radio3/2.4G	● Radio4/BT	●
2	-	●	-	-	-	● Radio1/2.4G Radio2/5G	● Radio3/2.4G	● Radio4/BT	●
3 Note1	●	-	-	-	-	● Radio1/2.4G Radio2/5G	● Radio3/5G	● Radio4/BT	●
Note1: Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.									
Mode 1 generated the worst test result, so it was recorded in this report.									
Therefore Co-location Maximum Permissible Exposure (Please refer to FA641615) and Radiated Emission Co-location (please refer to Appendix B) tests are added for simultaneously transmit.									

3.7. Table for Testing Locations

Test Site Location					
Address:	No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.				
TEL:	886-3-656-9065				
FAX:	886-3-656-9085				
Test Site No.	Site Category	Location	FCC Designation No.	IC File No.	VCCI Reg. No
03CH01-CB	SAC	Hsin Chu	TW0006	IC 4086D	-
CO01-CB	Conduction	Hsin Chu	TW0006	IC 4086D	-
TH01-CB	OVEN Room	Hsin Chu	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC).

3.8. Table for Supporting Units

For Test Site No: 03CH01-CB (Below 1GHz)

Support Unit	Brand	Model	FCC ID
NB*4	DELL	E4300	DoC
NB	Apple	Mac Book	DoC
Cell Phone	SAMSUNG	SM-J200Y	DoC
PoE	Motorola	PD-7001G	DoC
Device	CISCO	MR84-HW	UDX-60043010

For Test Site No: 03CH01-CB (Above 1GHz)

<For Non-beamforming Mode>

Support Unit	Brand	Model	FCC ID
NB	DELL	E4300	DoC
PoE	Motorola	PD-7001G	DoC

<For Beamforming Mode>

Support Unit	Brand	Model	FCC ID
NB*2	DELL	E4300	DoC
PoE	Motorola	PD-7001G	DoC
Device	CISCO	MR84-HW	UDX-60043010

For Test Site No: CO01-CB

Support Unit	Brand	Model	FCC ID
NB*6	DELL	E6430	DoC
PoE	Motorola	PD-7001G	DoC
Bluetooth Dongle	WPI	CC2540	DoC
Device	CISCO	MR84-HW	UDX-60043010

For Test Site No: TH01-CB

Support Unit	Brand	Model	FCC ID
NB	DELL	E4300	DoC
PoE	Motorola	PD-7001G	DoC

3.9. Table for Parameters of Test Software Setting

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

<For Radio 2 Non-beamforming Mode>

For Mode 1:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11a	8.5	8.5	8.5	22	22.5	21.5
802.11ac MCS0/Nss1 VHT20	8.5	8.5	8.5	22	22	21.5
802.11ac MCS0/Nss4 VHT20	7.5	7.5	8	21.5	21.5	21.5
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
	5795 MHz					
802.11ac MCS0/Nss1 VHT40	8.5		9		19.5	
802.11ac MCS0/Nss4 VHT40	8.5		8.5		18.5	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	8.5			17		
802.11ac MCS0/Nss4 VHT80	8.5			14.5		

Test Software Version	QCARCT Ver3.0.126.0
Mode	NCB: 80MHz+80MHz
	Type 1
	5210+5775 MHz
802.11ac MCS0/Nss2 VHT80+80	11.5

For Mode 2:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11a	17	17	17	21	22	21
802.11ac MCS0/Nss1 VHT20	17	17	17	21	22	21
802.11ac MCS0/Nss4 VHT20	16	16	16	21.5	21.5	21
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
	5795 MHz					
802.11ac MCS0/Nss1 VHT40	16		17		20	
802.11ac MCS0/Nss4 VHT40	15.5		17		19	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	14.5			17		
802.11ac MCS0/Nss4 VHT80	12.5			1C5		

Test Software Version	QCARCT Ver3.0.126.0
Mode	NCB: 80MHz+80MHz
	Type 1
	5210+5775 MHz
802.11ac MCS0/Nss2 VHT80+80	16

For Mode 3:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11a	12.5	12.5	12.5	18.5	18.5	18.5
802.11ac MCS0/Nss1 VHT20	13	13	13	19	19	19
802.11ac MCS0/Nss4 VHT20	14.5	15.5	15.5	18	18	18
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
	5795 MHz					
802.11ac MCS0/Nss1 VHT40	12.5		16		19	
802.11ac MCS0/Nss4 VHT40	10		16		19	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	11			16		
802.11ac MCS0/Nss4 VHT80	10			15		

Test Software Version	QCARCT Ver3.0.126.0
Mode	NCB: 80MHz+80MHz
	Type 1
	5210+5775 MHz
802.11ac MCS0/Nss2 VHT80+80	15

For Mode 4:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11a	13	13	13	19	19	19
802.11ac MCS0/Nss1 VHT20	13	13	13	19	19	19
802.11ac MCS0/Nss4 VHT20	14	15.5	17.5	18	18	18
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
	5795 MHz					
802.11ac MCS0/Nss1 VHT40	12.5		16		19	
802.11ac MCS0/Nss4 VHT40	13		16.5		18	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	11			14.5		
802.11ac MCS0/Nss4 VHT80	10.5			13		

Test Software Version	QCARCT Ver3.0.126.0
Mode	NCB: 80MHz+80MHz
	Type 1
	5210+5775 MHz
802.11ac MCS0/Nss2 VHT80+80	16

<For Radio 2 Beamforming Mode>

For Mode 1:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11ac MCS0/Nss1 VHT20	9	9	9	23	22.5	22.5
802.11ac MCS0/Nss2 VHT20	12	12	12	27	27	27
802.11ac MCS0/Nss3 VHT20	14	13.5	13.5	26.5	27.5	27.5
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
802.11ac MCS0/Nss1 VHT40	9		9		23	
802.11ac MCS0/Nss2 VHT40	12		12		26.5	
802.11ac MCS0/Nss3 VHT40	14		14		26	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	9			23		
802.11ac MCS0/Nss2 VHT80	12			22.5		
802.11ac MCS0/Nss3 VHT80	13.5			24		

Test Software Version	QCARCT Ver3.0.126.0	
Mode	NCB: 80MHz+80MHz	
	Type 1	
	5210+5775 MHz	
802.11ac MCS0/Nss2 VHT80+80	12.5	

For Mode 2:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11ac MCS0/Nss1 VHT20	17.5	18	18	25	25	25
802.11ac MCS0/Nss2 VHT20	21	21	21	28	28	27.5
802.11ac MCS0/Nss3 VHT20	21.5	22.5	22.5	27.5	27.5	26.5
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
802.11ac MCS0/Nss1 VHT40	17		18		25	
802.11ac MCS0/Nss2 VHT40	21		21		25.5	
802.11ac MCS0/Nss3 VHT40	22		23		25	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	16.5			24		
802.11ac MCS0/Nss2 VHT80	20.5			23.5		
802.11ac MCS0/Nss3 VHT80	21.5			21.5		

Test Software Version	QCARCT Ver3.0.126.0	
Mode	NCB: 80MHz+80MHz	
	Type 1	
	5210+5775 MHz	
802.11ac MCS0/Nss2 VHT80+80	21	

For Mode 3:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11ac MCS0/Nss1 VHT20	17	17	17	20	20	20
802.11ac MCS0/Nss2 VHT20	20	20	20	23	23	23
802.11ac MCS0/Nss3 VHT20	20.5	21.5	21.5	24	24	24
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
802.11ac MCS0/Nss1 VHT40	16		17		20	
802.11ac MCS0/Nss2 VHT40	20		20		23	
802.11ac MCS0/Nss3 VHT40	18.5		22.5		24	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	16.5			20		
802.11ac MCS0/Nss2 VHT80	17.5			23		
802.11ac MCS0/Nss3 VHT80	17			19.5		

Test Software Version	QCARCT Ver3.0.126.0	
Mode	NCB: 80MHz+80MHz	
	Type 1	
	5210+5775 MHz	
802.11ac MCS0/Nss2 VHT80+80	20	

For Mode 4:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11ac MCS0/Nss1 VHT20	16	16	16	17	16.5	17
802.11ac MCS0/Nss2 VHT20	19	19	19	20	20	20
802.11ac MCS0/Nss3 VHT20	21	20.5	20.5	21	21	21
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
802.11ac MCS0/Nss1 VHT40	16		16		16.5	
802.11ac MCS0/Nss2 VHT40	19		19		20	
802.11ac MCS0/Nss3 VHT40	19		21.5		22	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	10.5			16.5		
802.11ac MCS0/Nss2 VHT80	18.5			20.5		
802.11ac MCS0/Nss3 VHT80	18.5			18		

Test Software Version	QCARCT Ver3.0.126.0	
Mode	NCB: 80MHz+80MHz	
	Type 1	
	5210+5775 MHz	
802.11ac MCS0/Nss2 VHT80+80	20	

<For Radio 3 Mode>

For Mode 5:

Test Software Version	QCARCT Ver3.0.126.0					
Mode	Test Frequency (MHz)					
	NCB: 20MHz					
	5180 MHz	5200 MHz	5240 MHz	5745 MHz	5785 MHz	5825 MHz
802.11a	17	25.5	16.5	28	27	25
802.11ac MCS0/Nss1 VHT20	18	26.5	15.5	26	26	27
Mode	NCB: 40MHz					
	5190 MHz		5230 MHz		5755 MHz	
	5795 MHz					
802.11ac MCS0/Nss1 VHT40	13		17		27.5	
Mode	NCB: 80MHz					
	5210 MHz			5775 MHz		
802.11ac MCS0/Nss1 VHT80	11			19.5		

3.10. EUT Operation during Test

<For Non-beamforming Mode>

The EUT was programmed to be in continuously transmitting mode.

<For Beamforming Mode>

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed "Lantest.exe " to link with the remote workstation to receive and transmit packet by Device and transmit duty cycle no less 98%

3.11. Duty Cycle

<For Radio 2 Non-beamforming Mode>

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.060	2.130	96.71%	0.15	0.49
802.11ac MCS0/Nss1 VHT20	5.020	5.120	98.05%	0.09	0.01
802.11ac MCS0/Nss1 VHT40	2.400	2.520	95.24%	0.21	0.42
802.11ac MCS0/Nss1 VHT80	1.138	1.210	94.05%	0.27	0.88
802.11ac MCS0/Nss4 VHT20	4.980	5.060	98.42%	0.07	0.01
802.11ac MCS0/Nss4 VHT40	2.400	2.480	96.77%	0.14	0.42
802.11ac MCS0/Nss4 VHT80	1.120	1.210	92.56%	0.34	0.89
802.11ac MCS0/Nss2 VHT80+80	1.120	1.210	92.56%	0.34	0.89

<For Radio 2 Beamforming Mode>

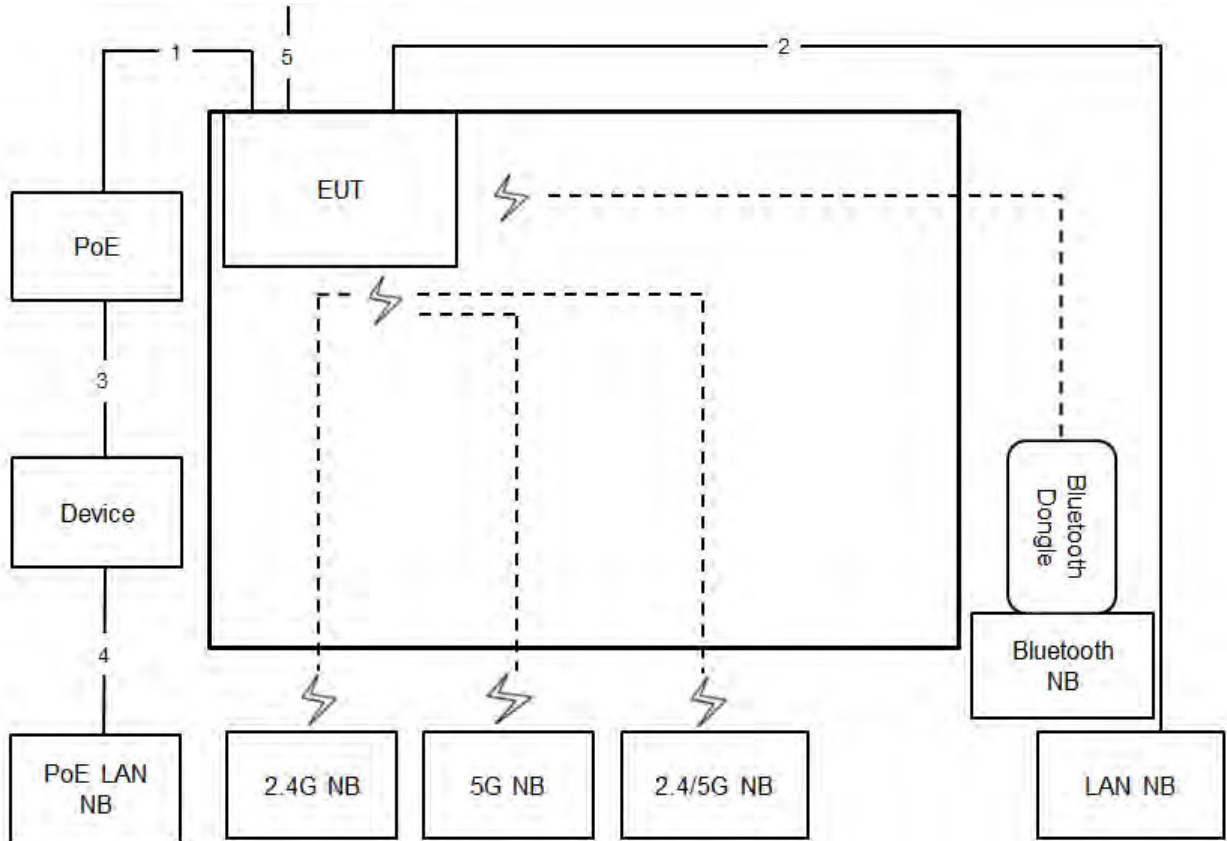
Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11ac MCS0/Nss1 VHT20	1.722	1.923	89.55%	0.48	0.58
802.11ac MCS0/Nss1 VHT40	1.667	1.843	90.43%	0.44	0.60
802.11ac MCS0/Nss1 VHT80	1.888	2.082	90.68%	0.42	0.53
802.11ac MCS0/Nss2 VHT20	1.754	1.934	90.69%	0.42	0.57
802.11ac MCS0/Nss2 VHT40	1.650	1.852	89.09%	0.50	0.61
802.11ac MCS0/Nss2 VHT80	1.900	2.092	90.82%	0.42	0.53
802.11ac MCS0/Nss3 VHT20	1.730	1.930	89.64%	0.48	0.58
802.11ac MCS0/Nss3 VHT40	1.940	2.150	90.23%	0.45	0.52
802.11ac MCS0/Nss3 VHT80	1.947	2.113	92.12%	0.36	0.51
802.11ac MCS0/Nss2 VHT80+80	1.930	2.120	91.04%	0.41	0.52

<For Radio 3 Mode>

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.060	2.120	97.17%	0.12	0.49
802.11ac MCS0/Nss1 VHT20	1.930	2.010	96.02%	0.18	0.52
802.11ac MCS0/Nss1 VHT40	0.940	1.060	88.68%	0.52	1.06
802.11ac MCS0/Nss1 VHT80	0.440	0.534	82.40%	0.84	2.27

3.12. Test Configurations

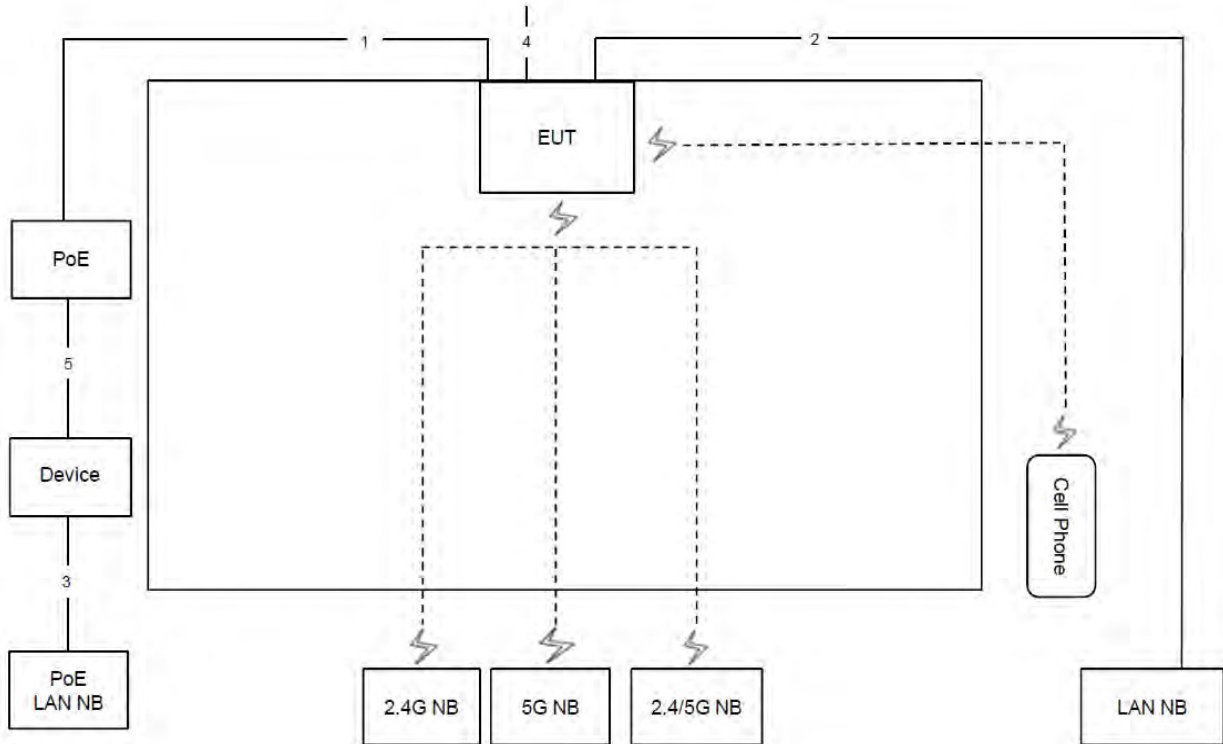
3.12.1. AC Power Line Conduction Emissions Test Configuration



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	1.5m
5	Ground cable	No	1.5m

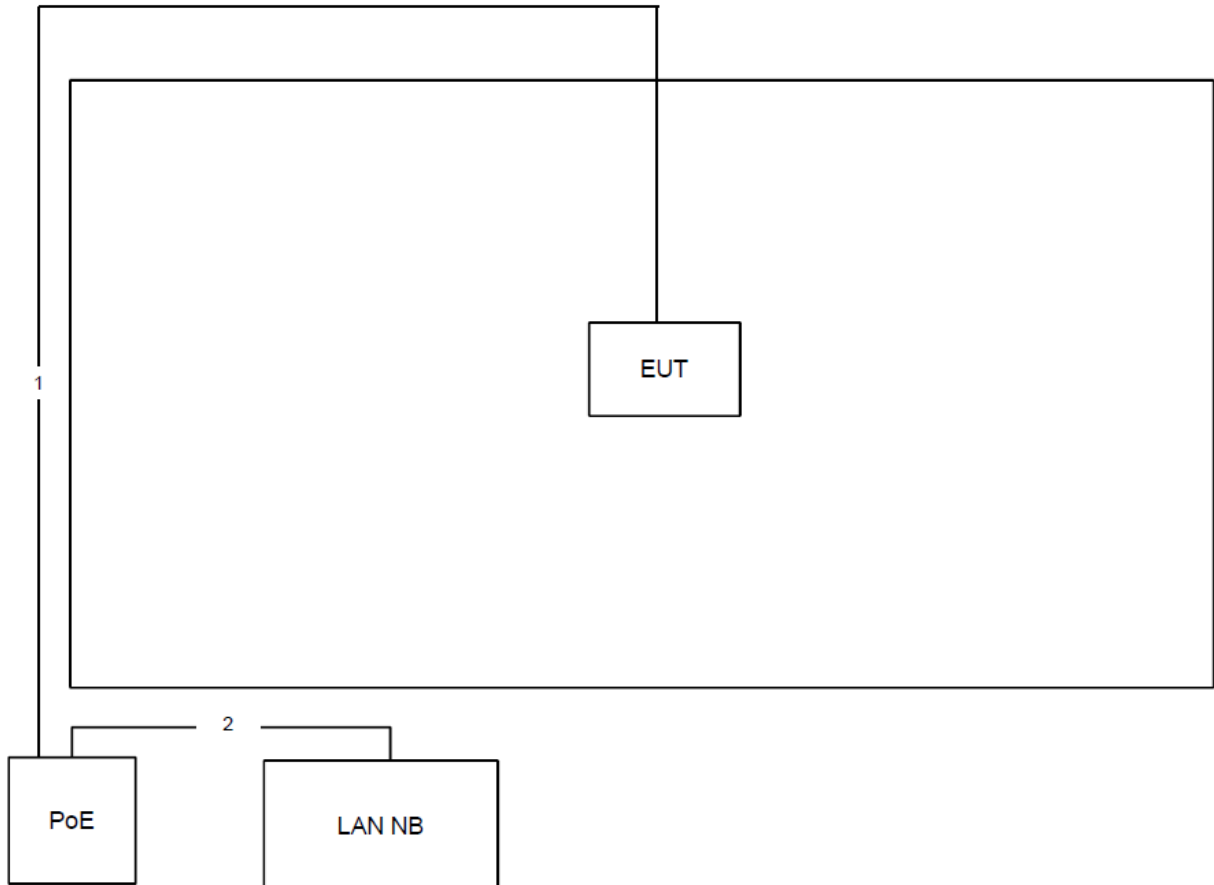
3.12.2. Radiation Emissions Test Configuration

Test Configuration: 30MHz~1GHz



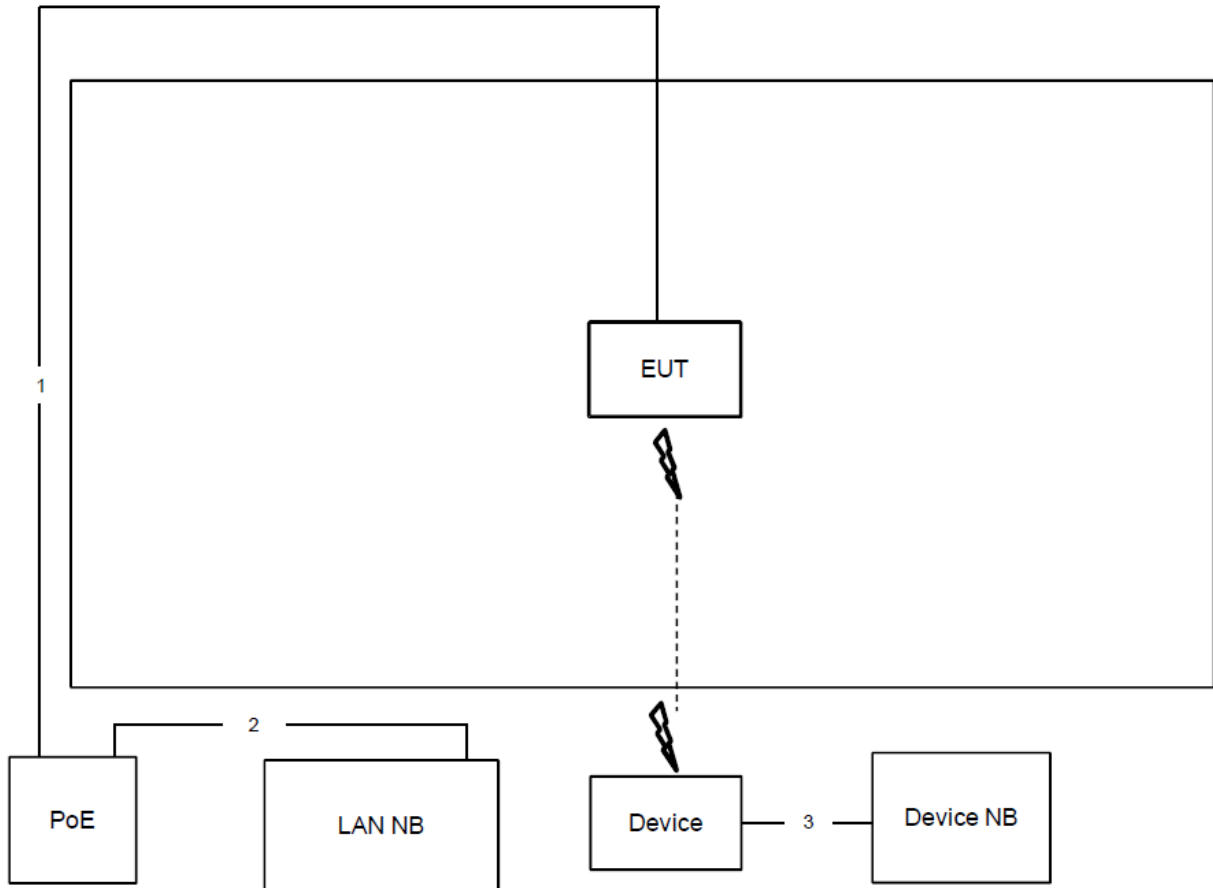
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m
4	Ground cable	No	1.5m
5	RJ-45 cable	No	1.5m

Test Configuration: above 1GHz
 <For Non-Beamforming Mode>



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m

<For Beamforming Mode>



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	1.5m

4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product that is designed to connect to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

4.1.2. Measuring Instruments and Setting

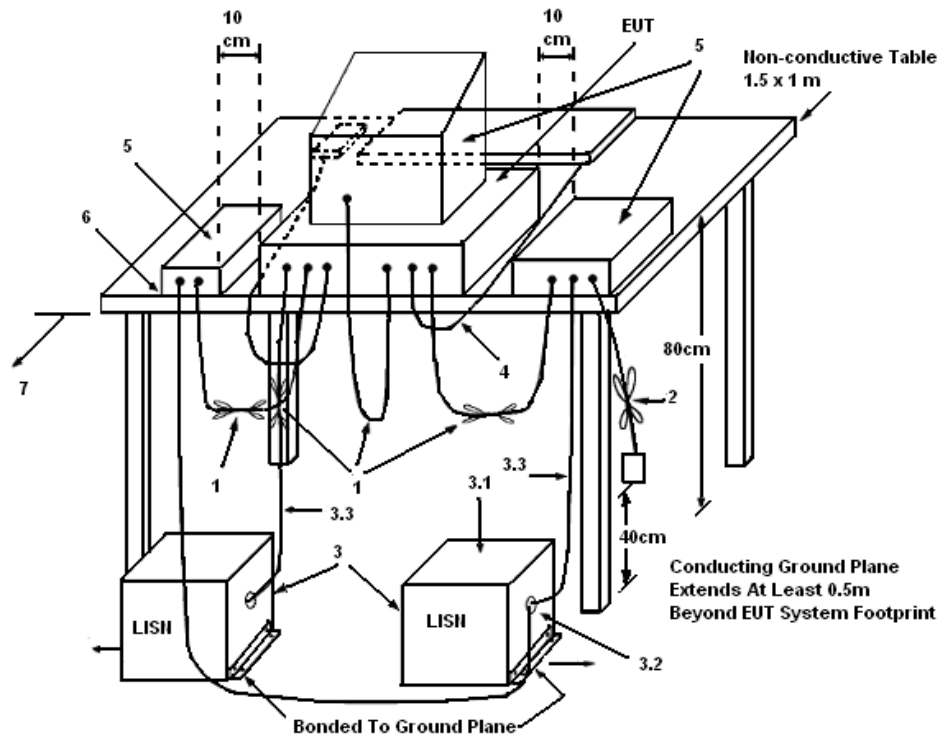
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 kHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4. Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
 - (3.1) All other equipment powered from additional LISN(s).
 - (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5. Test Deviation

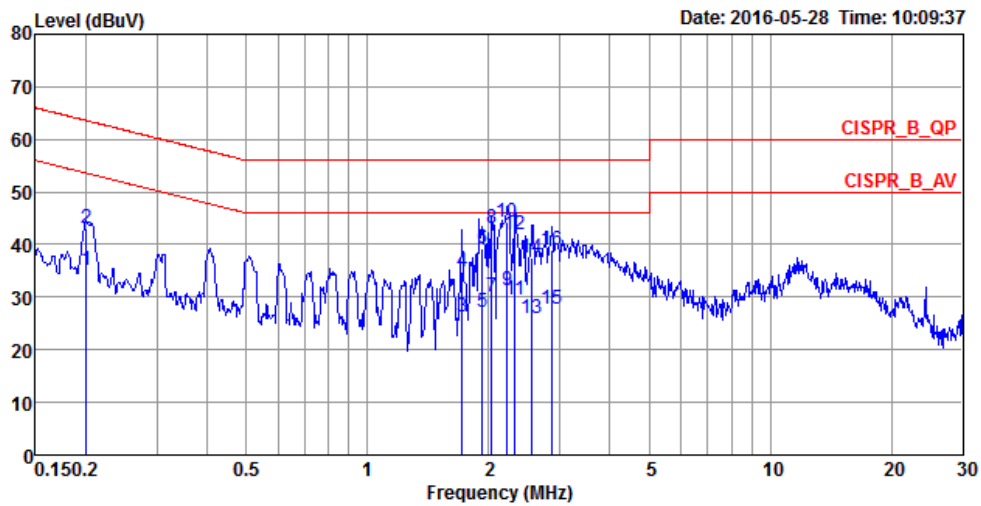
There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

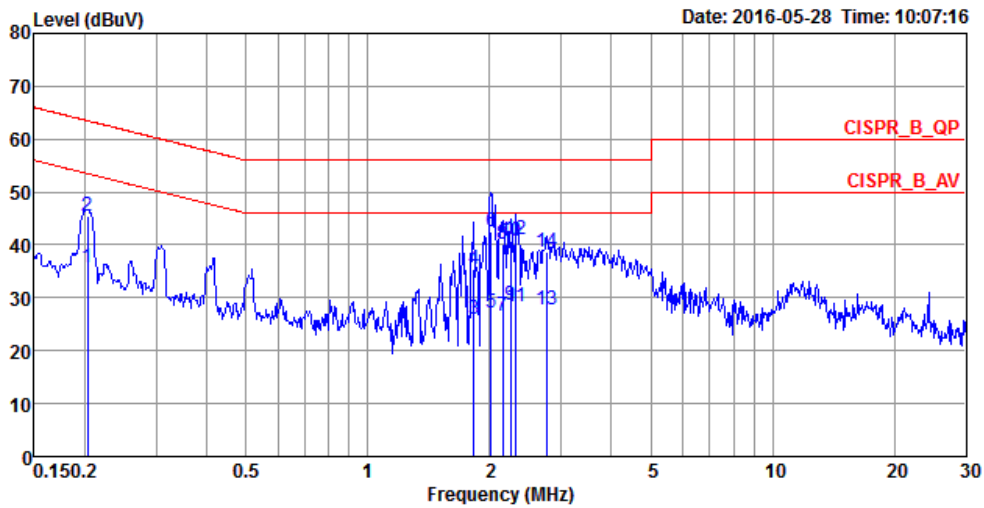
4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	23°C	Humidity	60%
Test Engineer	Deven Huang	Phase	Line
Configuration	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.2007	35.06	-18.52	53.58	25.12	9.92	0.02	LINE	Average
2	0.2007	43.09	-20.49	63.58	33.15	9.92	0.02	LINE	QP
3	1.7162	26.28	-19.72	46.00	16.27	9.95	0.06	LINE	Average
4	1.7162	34.93	-21.07	56.00	24.92	9.95	0.06	LINE	QP
5	1.9284	27.26	-18.74	46.00	17.24	9.96	0.06	LINE	Average
6	1.9284	39.33	-16.67	56.00	29.31	9.96	0.06	LINE	QP
7	2.0333	29.97	-16.03	46.00	19.95	9.96	0.06	LINE	Average
8	2.0333	43.07	-12.93	56.00	33.05	9.96	0.06	LINE	QP
9	2.2249	31.16	-14.84	46.00	21.14	9.96	0.06	LINE	Average
10	2.2249	44.13	-11.87	56.00	34.11	9.96	0.06	LINE	QP
11	2.3213	29.50	-16.50	46.00	19.48	9.96	0.06	LINE	Average
12	2.3213	41.91	-14.09	56.00	31.89	9.96	0.06	LINE	QP
13	2.5671	26.01	-19.99	46.00	15.99	9.97	0.05	LINE	Average
14	2.5671	37.47	-18.53	56.00	27.45	9.97	0.05	LINE	QP
15	2.8692	27.88	-18.12	46.00	17.86	9.97	0.05	LINE	Average
16	2.8692	38.87	-17.13	56.00	28.85	9.97	0.05	LINE	QP

Temperature	23°C	Humidity	60%
Test Engineer	Deven Huang	Phase	Neutral
Configuration	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.2029	35.62	-17.87	53.49	25.68	9.92	0.02	NEUTRAL	Average
2	0.2029	45.47	-18.02	63.49	35.53	9.92	0.02	NEUTRAL	QP
3	1.8288	26.01	-19.99	46.00	15.99	9.96	0.06	NEUTRAL	Average
4	1.8288	35.42	-20.58	56.00	25.40	9.96	0.06	NEUTRAL	QP
5	2.0119	27.30	-18.70	46.00	17.28	9.96	0.06	NEUTRAL	Average
6	2.0119	42.48	-13.52	56.00	32.46	9.96	0.06	NEUTRAL	QP
7	2.1553	26.57	-19.43	46.00	16.55	9.96	0.06	NEUTRAL	Average
8	2.1553	40.20	-15.80	56.00	30.18	9.96	0.06	NEUTRAL	QP
9	2.2486	28.72	-17.28	46.00	18.70	9.96	0.06	NEUTRAL	Average
10	2.2486	40.70	-15.30	56.00	30.68	9.96	0.06	NEUTRAL	QP
11	2.3213	28.45	-17.55	46.00	18.43	9.96	0.06	NEUTRAL	Average
12	2.3213	40.98	-15.02	56.00	30.96	9.96	0.06	NEUTRAL	QP
13	2.7648	27.73	-18.27	46.00	17.71	9.97	0.05	NEUTRAL	Average
14	2.7648	38.58	-17.42	56.00	28.56	9.97	0.05	NEUTRAL	QP

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. 26dB Bandwidth and 99% Occupied Bandwidth Measurement

4.2.1. Limit

No restriction limits.

4.2.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

26dB Bandwidth	
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth	
Spectrum Parameters	Setting
Span	1.5 times to 5.0 times the OBW
RBW	1 % to 5 % of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold

4.2.3. Test Procedures

1. The transmitter was conducted to the spectrum analyzer in peak hold mode.
2. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
3. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
4. Measurement perform conducted of each port.

4.2.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.2.7. Test Result of 26dB Bandwidth and 99% Occupied Bandwidth

Temperature	25°C	Humidity	62%
Test Engineer	Peter Wu		

<For Radio 2 Non-beamforming Mode>

For Mode 1:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11a	5180 MHz	19.65	19.83	19.30	19.91	16.50	16.50	16.41	16.50
	5200 MHz	19.91	19.57	19.39	19.57	16.50	16.41	16.41	16.50
	5240 MHz	19.91	19.65	19.65	19.65	16.50	16.41	16.41	16.41
	5745 MHz	33.22	36.52	33.30	34.26	17.11	19.62	17.11	17.02
	5785 MHz	32.96	35.83	33.13	34.00	17.02	18.41	17.19	17.02
	5825 MHz	36.70	40.70	37.65	38.00	18.41	22.49	19.45	18.49
802.11ac MCSO/Nss1 VHT20	5180 MHz	20.70	20.35	20.26	20.26	17.71	17.63	17.63	17.71
	5200 MHz	20.26	20.35	20.26	20.26	17.63	17.63	17.63	17.63
	5240 MHz	20.61	20.35	20.61	20.52	17.63	17.63	17.63	17.63
	5745 MHz	34.70	44.43	35.04	37.91	18.49	25.27	18.76	18.58
	5785 MHz	41.22	44.17	42.00	40.26	21.53	27.18	21.36	19.62
	5825 MHz	37.30	43.30	39.39	40.17	18.76	22.58	19.97	19.10
802.11ac MCSO/Nss1 VHT40	5190 MHz	40.15	40.15	40.44	39.71	36.18	36.03	36.18	35.89
	5230 MHz	40.29	40.29	40.15	40.00	36.03	36.03	36.03	35.89
	5755 MHz	40.58	40.87	40.29	40.15	36.03	36.18	36.03	36.03
	5795 MHz	40.73	40.73	40.44	39.86	36.18	36.32	36.32	36.32
802.11ac MCSO/Nss1 VHT80	5210 MHz	84.06	84.64	85.22	85.22	75.83	75.83	76.12	75.83
	5775 MHz	84.35	84.06	84.35	85.80	76.12	75.83	76.12	76.12
802.11ac MCSO/Nss4 VHT20	5180 MHz	22.26	21.91	22.44	22.61	17.89	17.89	17.97	17.97
	5200 MHz	22.61	22.52	22.00	22.26	17.89	17.97	17.97	17.97
	5240 MHz	22.26	22.17	22.70	22.44	17.89	17.89	17.89	17.97
	5745 MHz	45.74	47.65	44.44	46.61	27.79	31.26	25.44	27.09
	5785 MHz	47.48	48.26	44.61	44.52	30.48	32.74	27.18	28.05
	5825 MHz	46.87	48.78	47.30	48.09	31.09	33.43	29.00	29.61
802.11ac MCSO/Nss4 VHT40	5190 MHz	44.49	45.22	45.22	44.93	37.19	37.19	36.90	36.90
	5230 MHz	44.78	45.22	44.93	44.93	37.19	37.19	36.90	37.05
	5755 MHz	46.09	52.46	46.38	45.94	37.34	37.48	37.19	37.19
	5795 MHz	74.78	71.74	74.20	62.03	38.35	38.78	38.06	38.06
802.11ac MCSO/Nss4 VHT80	5210 MHz	88.41	89.86	87.54	88.12	76.41	76.70	76.41	76.41
	5775 MHz	88.70	88.70	87.54	88.12	76.41	76.41	76.41	76.70



Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCS0/Nss2	5210 MHz	85.51	85.22	-	-	75.83	75.83	-	-
VHT80+80	5775 MHz	-	-	84.93	85.51	-	-	76.12	75.83

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCS0/Nss2 VHT80+80	5210+5775 MHz	171.01

For Mode 2:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11a	5180 MHz	19.65	19.39	19.04	19.39	16.50	16.50	16.50	16.50
	5200 MHz	19.65	19.48	19.48	19.39	16.50	16.50	16.50	16.50
	5240 MHz	19.83	19.57	19.22	19.74	16.50	16.50	16.41	16.41
	5745 MHz	27.13	32.00	21.04	21.39	16.76	16.93	16.67	16.67
	5785 MHz	39.65	43.83	40.43	39.04	22.92	28.91	23.88	21.53
	5825 MHz	32.35	35.48	34.87	33.83	17.02	17.97	17.28	17.02
802.11ac MCS0/Nss1 VHT20	5180 MHz	20.35	20.35	20.17	20.43	17.63	17.63	17.63	17.63
	5200 MHz	20.17	20.17	20.35	20.17	17.63	17.63	17.63	17.63
	5240 MHz	20.35	20.43	20.35	20.26	17.63	17.63	17.63	17.63
	5745 MHz	21.48	26.87	22.78	22.09	17.71	17.89	17.80	17.80
	5785 MHz	41.22	44.17	42.00	40.26	21.53	27.18	21.36	19.62
	5825 MHz	27.74	31.65	32.61	30.78	17.89	18.15	18.06	17.97
802.11ac MCS0/Nss1 VHT40	5190 MHz	40.29	40.44	40.15	40.00	36.03	36.03	36.03	35.89
	5230 MHz	40.00	40.29	40.15	40.00	35.89	36.03	36.03	35.89
	5755 MHz	40.87	40.58	40.00	40.44	36.18	36.18	36.03	36.18
	5795 MHz	40.73	40.73	40.44	39.86	36.18	36.32	36.32	36.32
802.11ac MCS0/Nss1 VHT80	5210 MHz	84.64	84.35	85.22	85.51	75.83	75.83	75.83	75.83
	5775 MHz	84.35	84.06	84.35	85.80	76.12	75.83	76.12	76.12
802.11ac MCS0/Nss4 VHT20	5180 MHz	23.13	22.00	22.78	24.17	17.97	17.89	17.97	17.97
	5200 MHz	23.74	22.87	21.22	22.52	17.97	17.97	18.06	17.89
	5240 MHz	22.26	22.52	22.44	24.26	17.97	17.89	17.97	17.97
	5745 MHz	45.74	47.65	44.44	46.61	27.79	31.26	25.44	27.09
	5785 MHz	47.48	48.26	44.61	44.52	30.48	32.74	27.18	28.05
	5825 MHz	45.57	45.91	43.65	44.00	27.70	29.87	24.66	26.57
802.11ac MCS0/Nss4 VHT40	5190 MHz	44.49	45.80	44.64	44.78	37.05	37.19	36.76	36.90
	5230 MHz	44.78	44.78	44.49	45.65	37.19	37.19	37.05	37.19
	5755 MHz	49.86	57.25	50.58	45.80	37.63	37.63	37.19	37.34
	5795 MHz	74.78	71.74	74.20	62.03	38.35	38.78	38.06	38.06
802.11ac MCS0/Nss4 VHT80	5210 MHz	87.25	89.28	87.54	87.54	76.41	76.41	76.12	76.41
	5775 MHz	88.70	88.70	87.54	88.12	76.41	76.41	76.41	76.70



Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCS0/Nss2	5210 MHz	84.93	85.22	-	-	86.09	85.22	-	-
VHT80+80	5775 MHz	-	-	75.83	75.83	-	-	75.83	75.83

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCS0/Nss2 VHT80+80	5210+5775 MHz	171.30

For Mode 3:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11a	5180 MHz	19.30	19.48	19.30	19.13	16.58	16.50	16.41	16.41
	5200 MHz	19.83	19.57	19.13	19.48	16.50	16.41	16.41	16.50
	5240 MHz	19.74	19.57	19.39	19.48	16.50	16.41	16.41	16.41
	5745 MHz	19.74	19.65	19.65	19.65	16.41	16.41	16.50	16.41
	5785 MHz	20.00	19.74	19.74	20.00	16.50	16.50	16.50	16.41
	5825 MHz	19.83	19.39	19.57	19.74	16.41	16.50	16.50	16.41
802.11ac MCS0/Nss1 VHT20	5180 MHz	20.35	20.26	20.35	20.35	17.63	17.63	17.63	17.63
	5200 MHz	20.61	20.35	20.09	20.35	17.63	17.63	17.63	17.63
	5240 MHz	20.70	20.43	20.35	20.43	17.63	17.63	17.63	17.63
	5745 MHz	20.70	20.26	20.52	20.26	17.63	17.63	17.63	17.63
	5785 MHz	20.26	20.35	20.61	20.26	17.63	17.63	17.63	17.63
	5825 MHz	20.43	20.43	20.52	20.43	17.63	17.63	17.63	17.63
802.11ac MCS0/Nss1 VHT40	5190 MHz	40.44	40.15	40.44	40.29	36.03	36.03	36.03	35.89
	5230 MHz	40.44	40.58	40.29	40.00	35.89	36.03	36.03	35.89
	5755 MHz	40.44	40.44	40.44	40.29	36.03	36.03	36.03	36.03
	5795 MHz	40.73	40.58	40.15	40.15	36.03	36.03	36.03	36.03
802.11ac MCS0/Nss1 VHT80	5210 MHz	83.77	84.35	85.22	85.80	75.83	75.83	75.83	75.83
	5775 MHz	83.77	84.64	85.22	85.51	76.12	76.12	76.12	75.83
802.11ac MCS0/Nss4 VHT20	5180 MHz	23.04	21.91	21.83	22.87	17.97	17.89	17.97	17.97
	5200 MHz	22.17	21.83	22.17	22.70	17.89	17.89	17.89	18.06
	5240 MHz	22.26	22.26	22.52	22.52	17.89	17.89	17.97	18.06
	5745 MHz	22.61	22.78	22.35	22.70	17.89	17.89	17.97	17.97
	5785 MHz	22.52	23.22	23.04	22.61	17.97	17.97	17.97	17.97
	5825 MHz	22.96	22.96	22.96	22.61	17.89	17.89	17.97	17.97
802.11ac MCS0/Nss4 VHT40	5190 MHz	44.78	45.07	44.64	44.64	37.19	37.19	36.90	36.90
	5230 MHz	44.64	45.07	45.22	44.93	36.90	37.05	36.90	36.90
	5755 MHz	45.22	45.22	45.36	45.36	37.34	37.34	37.19	37.19
	5795 MHz	45.22	45.22	45.22	45.65	37.19	37.34	37.05	37.19
802.11ac MCS0/Nss4 VHT80	5210 MHz	88.41	87.83	86.67	84.93	76.41	76.70	76.70	76.12
	5775 MHz	88.70	89.28	86.96	86.38	76.70	76.41	76.41	76.70



Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCS0/Nss2	5210 MHz	85.22	85.51	-	-	75.83	76.12	-	-
VHT80+80	5775 MHz	-	-	85.80	86.09	-	-	76.12	75.83

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCS0/Nss2 VHT80+80	5210+5775 MHz	171.59

For Mode 4:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11a	5180 MHz	20.00	19.57	19.30	19.57	16.50	16.50	16.41	16.41
	5200 MHz	19.74	19.30	19.39	19.13	16.50	16.41	16.41	16.50
	5240 MHz	19.57	19.74	19.39	19.83	16.50	16.50	16.41	16.41
	5745 MHz	19.65	19.57	19.57	19.91	16.50	16.41	16.41	16.41
	5785 MHz	20.09	19.74	19.65	20.00	16.58	16.50	16.50	16.41
	5825 MHz	20.00	19.65	19.65	19.65	16.50	16.41	16.41	16.41
802.11ac MCS0/Nss1 VHT20	5180 MHz	20.43	20.26	20.26	20.26	17.63	17.63	17.63	17.63
	5200 MHz	20.43	20.26	20.26	20.26	17.63	17.63	17.63	17.63
	5240 MHz	20.43	20.52	20.26	20.43	12.63	17.63	17.63	17.63
	5745 MHz	20.43	20.52	20.61	20.43	17.63	17.63	17.63	17.63
	5785 MHz	20.26	20.35	20.61	20.43	17.63	17.63	17.63	17.63
	5825 MHz	20.17	20.26	20.52	20.43	17.63	17.63	17.63	17.63
802.11ac MCS0/Nss1 VHT40	5190 MHz	40.44	40.15	40.44	40.29	36.03	36.03	36.03	35.89
	5230 MHz	40.29	40.44	39.86	40.00	36.03	36.03	36.03	35.75
	5755 MHz	40.29	40.29	40.15	40.29	36.03	36.03	36.03	36.03
	5795 MHz	40.44	40.73	40.58	40.44	36.03	36.03	36.03	36.03
802.11ac MCS0/Nss1 VHT80	5210 MHz	83.77	84.35	85.22	85.80	75.83	75.83	75.83	75.83
	5775 MHz	84.06	84.35	85.51	85.51	76.12	76.12	76.12	76.12
802.11ac MCS0/Nss4 VHT20	5180 MHz	21.74	22.17	22.26	22.70	17.89	17.80	17.97	17.97
	5200 MHz	22.26	22.17	22.09	22.17	17.89	17.89	17.97	17.97
	5240 MHz	22.09	22.26	22.43	22.17	17.89	17.89	17.97	17.97
	5745 MHz	22.17	22.17	22.70	22.52	17.89	17.89	17.97	17.89
	5785 MHz	22.35	22.00	22.17	22.61	17.89	17.89	17.97	17.97
	5825 MHz	22.35	21.91	21.91	22.52	17.80	17.89	17.89	18.06
802.11ac MCS0/Nss4 VHT40	5190 MHz	45.22	45.07	45.22	45.22	37.19	37.19	36.90	36.90
	5230 MHz	44.35	44.49	44.35	44.20	37.05	37.05	36.90	37.05
	5755 MHz	44.93	44.93	44.93	45.36	37.19	37.34	36.90	37.05
	5795 MHz	44.78	45.22	44.64	45.22	37.19	37.34	37.05	37.05
802.11ac MCS0/Nss4 VHT80	5210 MHz	87.25	87.54	87.54	87.83	76.41	76.70	76.41	76.41
	5775 MHz	88.70	87.25	87.25	89.57	76.41	76.70	76.12	76.41



Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCS0/Nss2	5210 MHz	84.93	85.22	-	-	75.83	75.83	-	-
VHT80+80	5775 MHz	-	-	86.09	85.22	-	-	75.83	75.83

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCS0/Nss2 VHT80+80	5210+5775 MHz	171.30

<For Radio 2 Beamforming Mode>

For Mode 1:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCS0/Nss1 VHT20	5180 MHz	20.52	20.61	20.44	20.44	17.71	17.71	17.71	17.71
	5200 MHz	20.44	20.35	20.44	20.44	17.71	17.71	17.71	17.71
	5240 MHz	21.13	21.30	20.52	20.52	17.80	17.71	17.71	17.71
	5745 MHz	20.26	20.44	20.44	20.26	17.71	17.63	17.71	17.63
	5785 MHz	20.26	20.35	20.70	20.44	17.63	17.63	20.70	17.63
	5825 MHz	20.70	20.26	20.52	20.35	17.63	17.63	17.63	17.63
802.11ac MCS0/Nss1 VHT40	5190 MHz	40.44	40.44	40.73	40.87	36.18	36.18	36.32	36.18
	5230 MHz	40.29	40.73	40.15	40.58	36.18	36.18	36.32	36.18
	5755 MHz	40.44	40.58	40.44	40.44	36.04	36.04	36.04	36.04
	5795 MHz	40.58	40.58	40.29	40.15	36.04	36.04	36.04	36.04
802.11ac MCS0/Nss1 VHT80	5210 MHz	142.90	120.58	115.65	160.58	76.41	76.41	76.99	76.41
	5775 MHz	84.64	84.35	85.80	85.80	76.12	76.12	76.12	76.12
802.11ac MCS0/Nss2 VHT20	5180 MHz	20.44	20.35	20.44	19.91	17.71	17.71	17.71	17.71
	5200 MHz	20.00	20.26	20.26	19.91	17.80	17.71	17.80	17.80
	5240 MHz	20.26	20.52	20.52	20.09	17.80	17.80	17.80	17.71
	5745 MHz	20.44	20.87	20.52	20.17	17.80	17.80	17.80	17.80
	5785 MHz	20.44	20.87	20.87	20.17	17.80	17.80	17.80	17.80
	5825 MHz	20.52	21.13	21.13	19.91	17.80	17.80	17.89	17.80
802.11ac MCS0/Nss2 VHT40	5190 MHz	40.15	40.00	40.00	39.86	36.18	36.04	36.04	36.18
	5230 MHz	40.58	40.58	40.15	39.86	36.04	36.04	36.04	35.89
	5755 MHz	40.58	40.73	40.58	40.29	36.18	36.32	36.04	36.04
	5795 MHz	40.58	42.46	40.73	40.44	36.18	36.32	36.32	36.18
802.11ac MCS0/Nss2 VHT80	5210 MHz	85.22	84.35	85.51	85.22	75.83	76.12	76.12	75.83
	5775 MHz	84.93	84.64	84.93	85.51	76.12	76.12	76.12	76.12

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss3 VHT20	5180 MHz	22.87	21.48	21.74	22.26	17.97	17.89	18.06	17.89
	5200 MHz	22.52	21.48	21.74	22.35	17.97	17.89	18.06	17.89
	5240 MHz	22.70	21.39	21.74	22.61	17.97	17.97	18.06	17.80
	5745 MHz	44.00	45.57	38.17	44.00	21.88	29.78	20.93	22.84
	5785 MHz	42.78	48.17	36.87	47.57	21.45	29.78	22.32	24.83
	5825 MHz	44.78	45.22	38.52	44.87	22.58	28.31	21.97	24.92
802.11ac MCSO/Nss3 VHT40	5190 MHz	45.94	45.07	44.93	44.93	37.19	36.90	37.05	37.19
	5230 MHz	45.51	45.07	44.64	45.80	37.05	36.90	37.05	37.05
	5755 MHz	84.78	88.41	75.22	84.20	39.22	45.15	39.94	40.81
	5795 MHz	85.65	87.25	78.12	80.87	40.23	47.76	40.81	41.82
802.11ac MCSO/Nss3 VHT80	5210 MHz	86.67	87.25	86.67	86.38	76.12	76.41	76.41	76.41
	5775 MHz	140.29	139.42	154.78	126.09	76.70	76.70	76.70	76.70

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss2 VHT80+80	5210 MHz	84.93	84.93	-	-	76.12	76.12	-	-
	5775 MHz	-	-	86.96	85.80	-	-	76.12	75.83

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCSO/Nss2 VHT80+80	5210+5775 MHz	171.89

For Mode 2:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss1 VHT20	5180 MHz	20.35	20.35	20.17	20.26	17.71	17.71	17.71	17.63
	5200 MHz	20.44	20.44	20.52	20.17	17.71	17.71	17.71	17.71
	5240 MHz	20.70	20.35	20.35	20.44	17.71	17.71	17.63	17.71
	5745 MHz	20.26	20.44	20.44	20.26	17.71	17.63	17.71	17.63
	5785 MHz	20.61	20.44	20.35	20.44	17.63	17.71	17.71	17.63
	5825 MHz	20.35	20.44	20.61	20.26	17.63	17.63	17.63	17.63
802.11ac MCSO/Nss1 VHT40	5190 MHz	40.29	40.29	40.29	40.15	36.04	36.18	36.18	36.04
	5230 MHz	40.29	40.58	40.15	40.00	36.18	36.04	36.04	35.89
	5755 MHz	40.44	40.58	40.44	40.44	36.04	36.04	36.04	36.04
	5795 MHz	40.58	40.58	40.29	40.15	36.04	36.04	36.04	36.04
802.11ac MCSO/Nss1 VHT80	5210 MHz	84.35	84.64	84.64	84.93	75.83	75.83	75.83	76.12
	5775 MHz	84.64	84.35	85.80	85.80	76.12	76.12	76.12	76.12
802.11ac MCSO/Nss2 VHT20	5180 MHz	19.91	20.09	19.91	19.83	17.80	17.80	17.80	17.80
	5200 MHz	20.17	20.26	20.09	20.09	17.80	17.71	17.80	17.80
	5240 MHz	20.09	20.26	20.35	20.09	17.80	17.71	17.71	17.80
	5745 MHz	20.44	20.87	20.52	20.17	17.80	17.80	17.80	17.80
	5785 MHz	20.44	20.87	20.87	20.17	17.80	17.80	17.80	17.80
	5825 MHz	20.52	21.13	21.13	19.91	17.80	17.80	17.89	17.80
802.11ac MCSO/Nss2 VHT40	5190 MHz	40.15	40.15	40.00	40.15	36.04	36.04	36.04	36.04
	5230 MHz	40.15	39.86	39.86	40.15	36.04	36.04	36.04	36.04
	5755 MHz	40.29	40.15	40.15	40.15	36.18	36.04	36.04	36.18
	5795 MHz	40.58	42.46	40.73	40.44	36.18	36.32	36.32	36.18
802.11ac MCSO/Nss2 VHT80	5210 MHz	82.90	84.06	84.06	83.77	75.83	75.83	76.12	75.83
	5775 MHz	83.48	84.35	84.06	84.06	75.83	76.12	76.12	75.83

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss3 VHT20	5180 MHz	22.35	21.48	21.57	22.44	17.97	17.97	18.06	17.80
	5200 MHz	23.48	22.26	22.17	23.04	17.97	17.97	18.06	17.97
	5240 MHz	22.78	21.48	22.00	23.65	17.97	17.89	18.06	17.97
	5745 MHz	43.65	48.26	33.04	46.87	23.44	30.65	21.88	25.88
	5785 MHz	42.78	48.17	36.87	47.57	21.45	29.78	22.32	24.83
	5825 MHz	47.22	44.26	40.87	46.96	26.31	29.44	24.57	27.35
802.11ac MCSO/Nss3 VHT40	5190 MHz	45.94	44.78	44.49	46.81	37.19	37.05	37.05	37.19
	5230 MHz	50.29	44.93	45.80	52.75	37.34	36.90	37.05	37.48
	5755 MHz	63.62	65.36	63.48	54.06	38.06	37.63	37.77	37.63
	5795 MHz	68.99	75.36	71.16	75.36	38.21	38.21	38.06	38.64
802.11ac MCSO/Nss3 VHT80	5210 MHz	195.07	193.62	193.91	198.26	78.15	77.57	76.99	80.75
	5775 MHz	155.94	187.54	156.81	156.52	77.28	78.15	76.99	76.99

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss2 VHT80+80	5210 MHz	85.51	86.38	-	-	75.83	76.12	-	-
	5775 MHz	-	-	85.51	85.80	-	-	76.12	76.12

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCSO/Nss2 VHT80+80	5210+5775 MHz	172.17

For Mode 3:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss1 VHT20	5180 MHz	20.70	20.09	20.44	20.17	17.63	17.63	17.63	17.63
	5200 MHz	20.17	20.26	20.26	20.26	17.71	17.71	17.63	17.63
	5240 MHz	20.44	20.35	20.26	20.35	17.63	17.63	17.63	17.63
	5745 MHz	20.52	20.78	20.70	20.52	17.71	17.63	17.71	17.71
	5785 MHz	20.87	20.44	20.52	20.70	17.63	17.63	17.63	17.63
	5825 MHz	20.70	20.52	20.52	20.52	17.63	17.63	17.71	17.63
802.11ac MCSO/Nss1 VHT40	5190 MHz	40.29	40.29	40.15	40.29	36.18	36.04	36.04	36.04
	5230 MHz	40.44	40.15	40.00	40.00	36.04	36.04	36.04	35.89
	5755 MHz	40.58	40.44	40.44	40.00	36.18	36.04	36.04	36.18
	5795 MHz	40.73	40.73	40.58	40.29	36.18	36.18	36.04	36.04
802.11ac MCSO/Nss1 VHT80	5210 MHz	84.35	84.64	84.64	84.93	75.83	75.83	75.83	76.12
	5775 MHz	84.64	85.22	85.22	85.51	76.12	76.12	76.12	76.12
802.11ac MCSO/Nss2 VHT20	5180 MHz	20.70	20.09	20.17	19.83	17.80	17.71	17.71	17.80
	5200 MHz	19.91	20.26	20.44	19.91	17.80	17.80	17.80	17.80
	5240 MHz	20.17	20.17	20.44	20.00	17.80	17.80	17.80	17.80
	5745 MHz	20.26	20.44	20.26	20.09	17.71	17.71	17.80	17.71
	5785 MHz	20.52	20.52	20.44	20.00	17.80	17.71	17.80	17.80
	5825 MHz	20.26	20.17	20.44	20.09	17.80	17.80	17.80	17.80
802.11ac MCSO/Nss2 VHT40	5190 MHz	40.29	39.86	40.00	40.15	36.04	36.04	36.04	36.04
	5230 MHz	40.15	40.00	40.00	40.15	36.04	36.04	36.04	36.04
	5755 MHz	40.44	40.15	40.00	40.15	36.18	36.04	36.04	36.04
	5795 MHz	40.44	40.15	40.00	40.44	36.18	36.04	36.04	36.04
802.11ac MCSO/Nss2 VHT80	5210 MHz	83.19	83.19	84.35	85.22	75.83	75.83	76.12	76.12
	5775 MHz	82.61	84.35	84.06	84.35	75.83	75.83	76.12	75.83

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCS0/Nss3 VHT20	5180 MHz	22.87	21.83	21.91	23.13	17.97	17.89	18.06	17.89
	5200 MHz	22.96	21.57	21.74	23.22	17.97	17.89	18.06	17.89
	5240 MHz	23.22	21.39	22.00	23.39	17.89	17.97	18.06	17.89
	5745 MHz	23.39	22.26	21.91	23.22	17.89	17.97	18.06	17.97
	5785 MHz	23.48	23.57	21.91	24.17	17.97	17.97	18.06	17.97
	5825 MHz	22.87	23.30	22.52	23.04	17.97	17.97	18.06	17.97
802.11ac MCS0/Nss3 VHT40	5190 MHz	44.78	45.22	45.22	44.78	37.19	36.90	37.05	37.05
	5230 MHz	46.09	44.64	44.93	46.38	37.05	37.05	37.19	37.19
	5755 MHz	45.36	46.09	44.93	45.22	37.48	37.19	37.19	37.19
	5795 MHz	45.51	45.51	45.65	44.78	37.34	37.05	37.34	37.34
802.11ac MCS0/Nss3 VHT80	5210 MHz	86.09	86.96	85.80	85.96	76.41	76.41	76.12	76.12
	5775 MHz	86.96	87.83	87.25	86.96	76.41	76.41	76.12	76.41

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCS0/Nss2 VHT80+80	5210 MHz	86.38	85.51	-	-	75.83	76.12	-	-
	5775 MHz	-	-	85.51	86.09	-	-	76.12	76.12

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCS0/Nss2 VHT80+80	5210+5775 MHz	172.46

For Mode 4:

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss1 VHT20	5180 MHz	20.17	20.44	20.26	20.35	17.63	17.63	17.63	17.63
	5200 MHz	20.52	20.70	20.26	20.35	17.63	17.63	17.63	17.63
	5240 MHz	20.78	20.35	20.61	20.52	17.63	17.63	17.63	17.63
	5745 MHz	20.35	20.44	20.78	20.44	17.63	17.63	17.63	17.63
	5785 MHz	20.44	20.52	20.61	20.44	17.63	17.63	17.63	17.63
	5825 MHz	20.78	20.44	20.35	20.09	17.63	17.63	17.63	17.63
802.11ac MCSO/Nss1 VHT40	5190 MHz	40.29	40.29	40.15	40.29	36.18	36.04	36.04	36.04
	5230 MHz	40.29	40.29	40.15	40.00	36.18	36.04	36.18	36.04
	5755 MHz	40.58	40.44	40.44	40.29	36.04	36.04	36.04	36.18
	5795 MHz	40.58	40.29	40.44	40.15	36.04	36.18	36.04	36.18
802.11ac MCSO/Nss1 VHT80	5210 MHz	84.06	84.35	85.22	85.51	75.83	75.83	76.12	75.83
	5775 MHz	85.51	84.93	85.22	85.51	76.12	76.12	76.12	76.12
802.11ac MCSO/Nss2 VHT20	5180 MHz	20.61	20.26	20.26	20.17	17.71	17.71	17.71	17.71
	5200 MHz	20.35	20.17	20.26	19.83	17.71	17.80	17.71	17.71
	5240 MHz	20.09	20.44	20.35	20.17	17.71	17.71	17.71	17.71
	5745 MHz	20.44	20.35	20.44	20.00	17.71	17.71	17.71	17.71
	5785 MHz	20.26	20.26	20.52	20.26	17.80	17.80	17.80	17.80
	5825 MHz	20.17	20.17	20.52	20.26	17.80	17.80	17.80	17.80
802.11ac MCSO/Nss2 VHT40	5190 MHz	40.00	39.86	40.15	39.86	36.18	36.04	36.04	36.04
	5230 MHz	40.15	39.86	39.86	40.29	36.18	36.04	36.04	36.04
	5755 MHz	40.58	40.15	40.00	40.15	36.18	36.04	36.04	36.32
	5795 MHz	40.58	40.15	40.15	40.29	36.32	36.18	36.04	36.04
802.11ac MCSO/Nss2 VHT80	5210 MHz	83.19	83.19	83.77	75.83	75.83	75.83	76.12	84.64
	5775 MHz	83.48	83.19	84.06	84.64	75.83	76.12	76.12	75.83

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss3 VHT20	5180 MHz	23.04	22.70	21.74	22.52	17.89	17.97	17.97	17.97
	5200 MHz	22.87	21.13	22.70	22.09	17.97	17.97	18.06	17.89
	5240 MHz	22.52	21.30	22.17	22.61	17.97	17.89	18.06	17.80
	5745 MHz	22.78	21.30	21.65	22.96	17.97	17.97	18.06	17.97
	5785 MHz	22.09	21.74	21.91	22.96	18.06	17.97	18.06	17.97
	5825 MHz	22.96	21.48	22.00	23.04	17.97	17.89	18.06	17.97
802.11ac MCSO/Nss3 VHT40	5190 MHz	45.22	44.64	45.07	44.64	37.05	37.05	37.19	37.19
	5230 MHz	45.07	44.78	44.93	45.36	37.05	36.90	36.90	37.19
	5755 MHz	46.23	45.07	45.65	45.07	37.34	37.19	37.19	37.19
	5795 MHz	45.51	45.36	46.09	46.38	37.48	37.19	37.19	37.34
802.11ac MCSO/Nss3 VHT80	5210 MHz	87.25	86.96	86.67	87.54	76.41	76.41	76.12	76.41
	5775 MHz	87.54	87.25	86.67	86.09	76.41	76.41	76.12	76.41

Mode	Frequency	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain 1	Chain 2	Chain 3	Chain 4	Chain 1	Chain 2	Chain 3	Chain 4
802.11ac MCSO/Nss2 VHT80+80	5210 MHz	86.38	85.51	-	-	75.83	76.12	-	-
	5775 MHz	-	-	85.51	86.09	-	-	76.12	76.12

Mode	Frequency	26dB Total BW (MHz)
802.11ac MCSO/Nss2 VHT80+80	5210+5775 MHz	172.46

<For Radio 3 Mode>

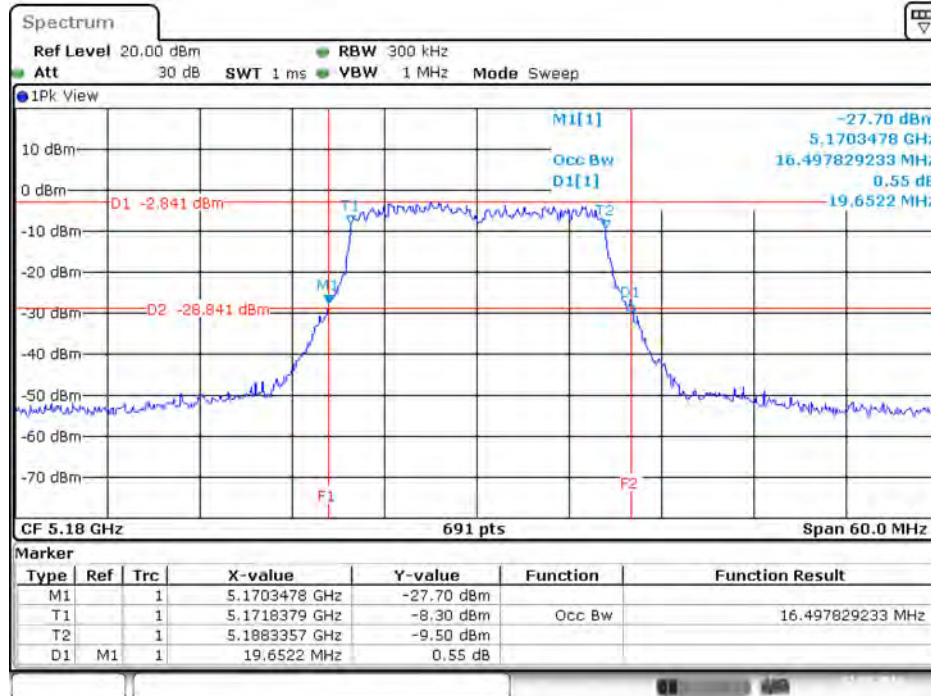
For Mode 5:

Mode	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5180 MHz	36.35	22.49
	5200 MHz	44.78	32.21
	5240 MHz	34.09	20.06
	5745 MHz	58.87	39.16
	5785 MHz	58.61	39.07
	5825 MHz	52.96	35.08
802.11ac MCS0/Nss1 VHT20	5180 MHz	42.61	24.57
	5200 MHz	51.57	35.08
	5240 MHz	31.91	19.36
	5745 MHz	55.57	38.55
	5785 MHz	58.09	39.68
	5825 MHz	58.35	40.29
802.11ac MCS0/Nss1 VHT40	5190 MHz	52.32	37.63
	5230 MHz	69.42	39.22
	5755 MHz	99.13	63.68
	5795 MHz	98.55	63.24
802.11ac MCS0/Nss1 VHT80	5210 MHz	101.74	76.70
	5775 MHz	159.13	87.70

<For Radio 2 Non-beamforming Mode>

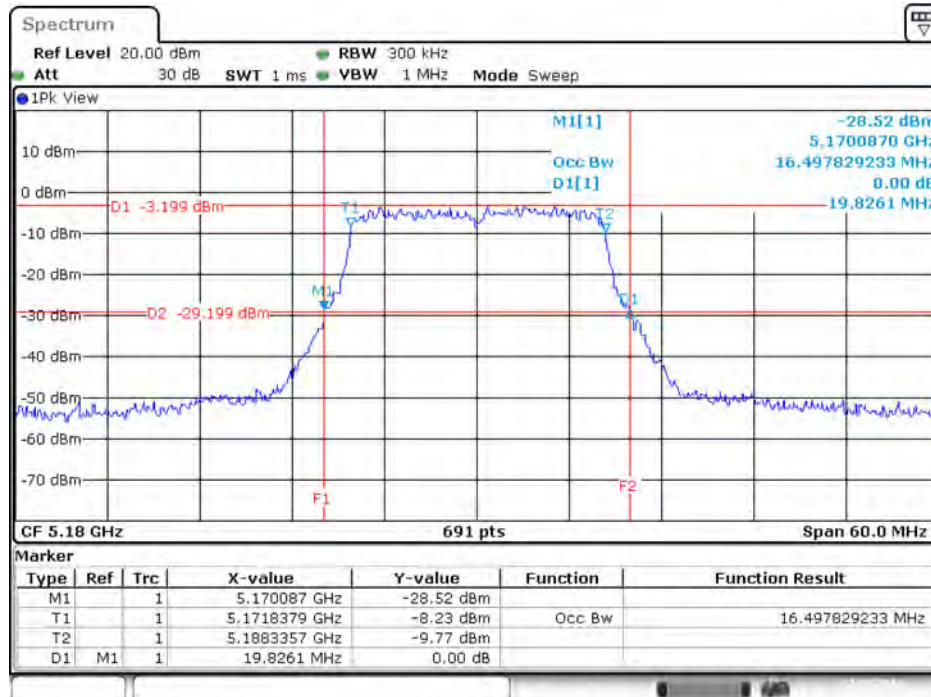
For Mode 1:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5180 MHz



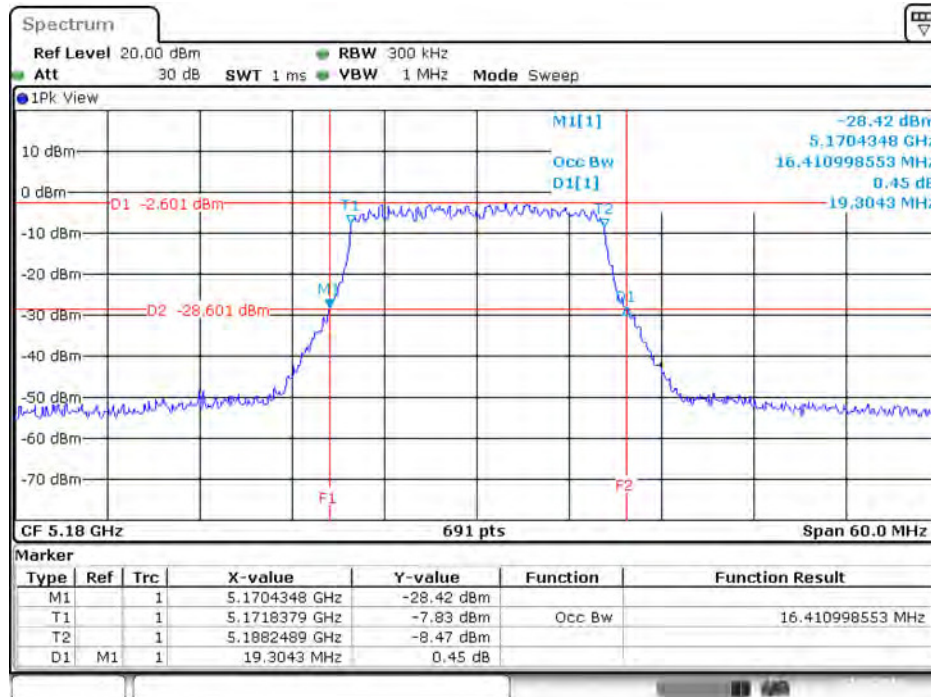
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5180 MHz



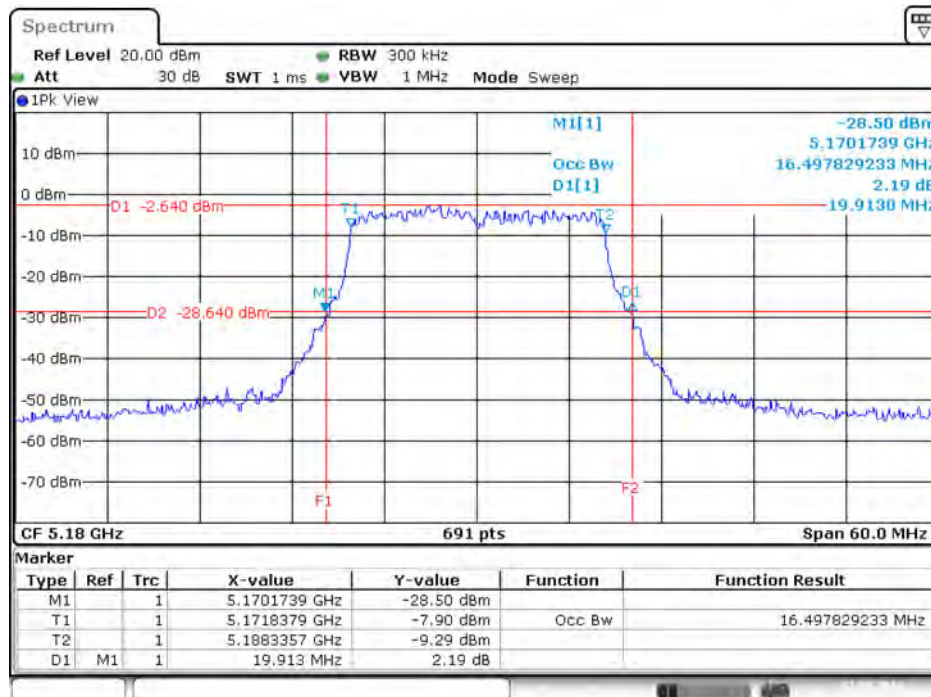
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5180 MHz



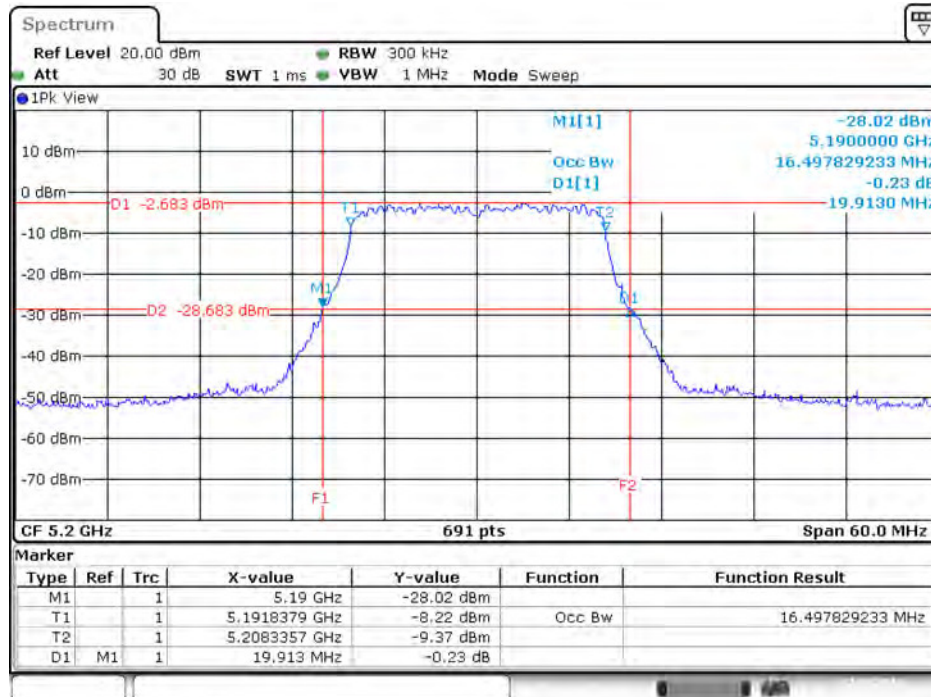
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5180 MHz



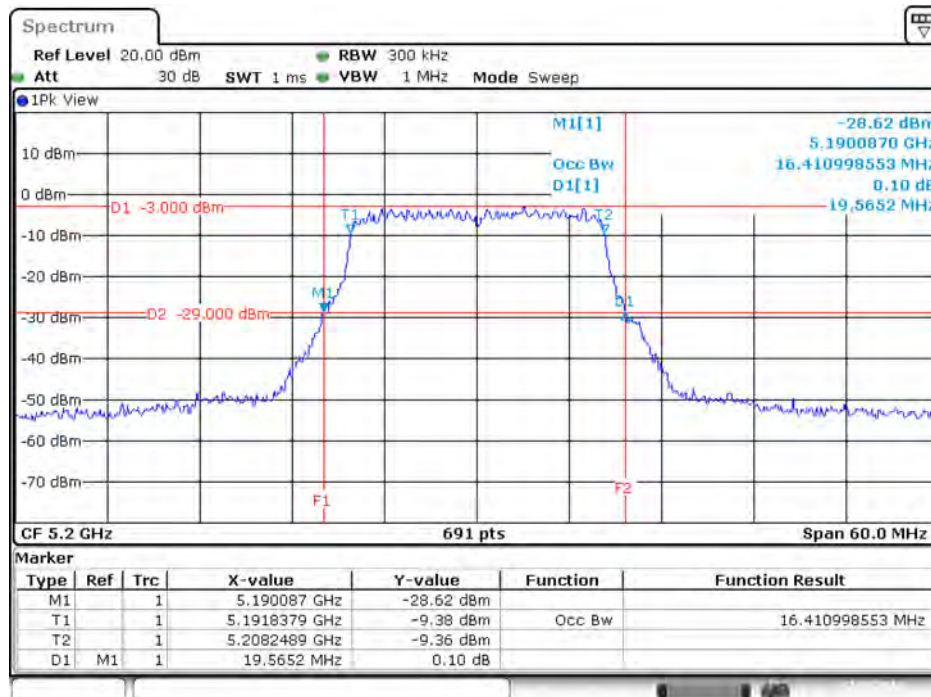
Date: 22.MAY.2016 13:16:49

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5200 MHz



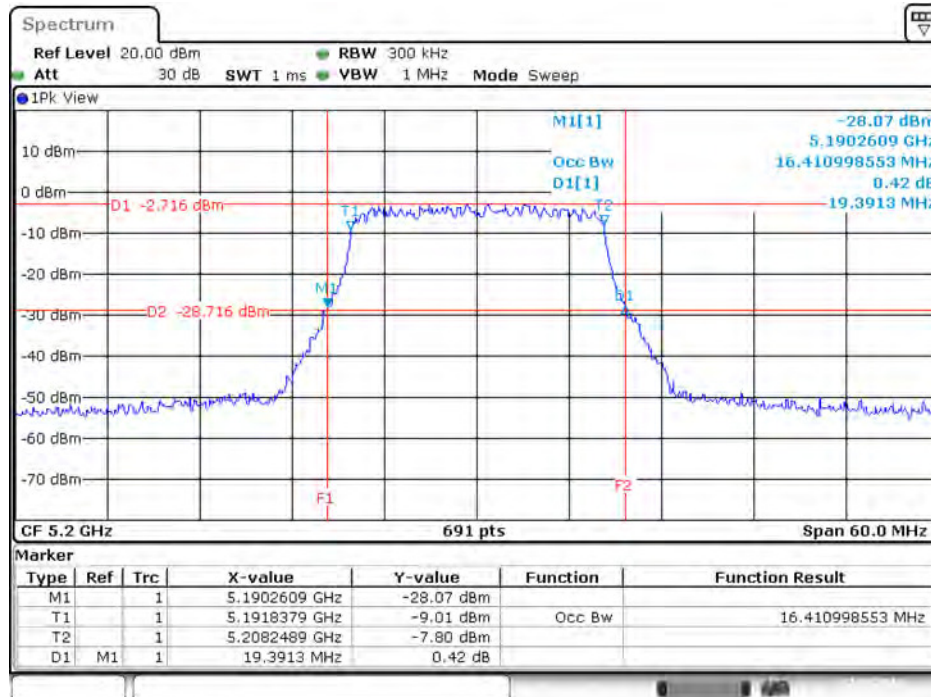
Date: 22.MAY.2016 13:25:35

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5200 MHz



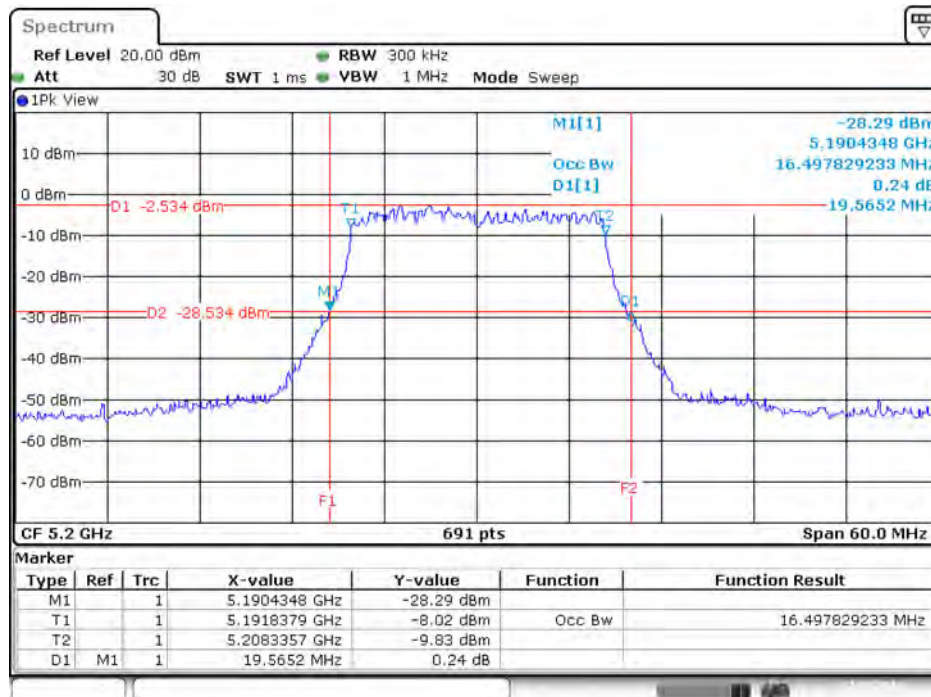
Date: 22.MAY.2016 13:25:15

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 3 / 5200 MHz



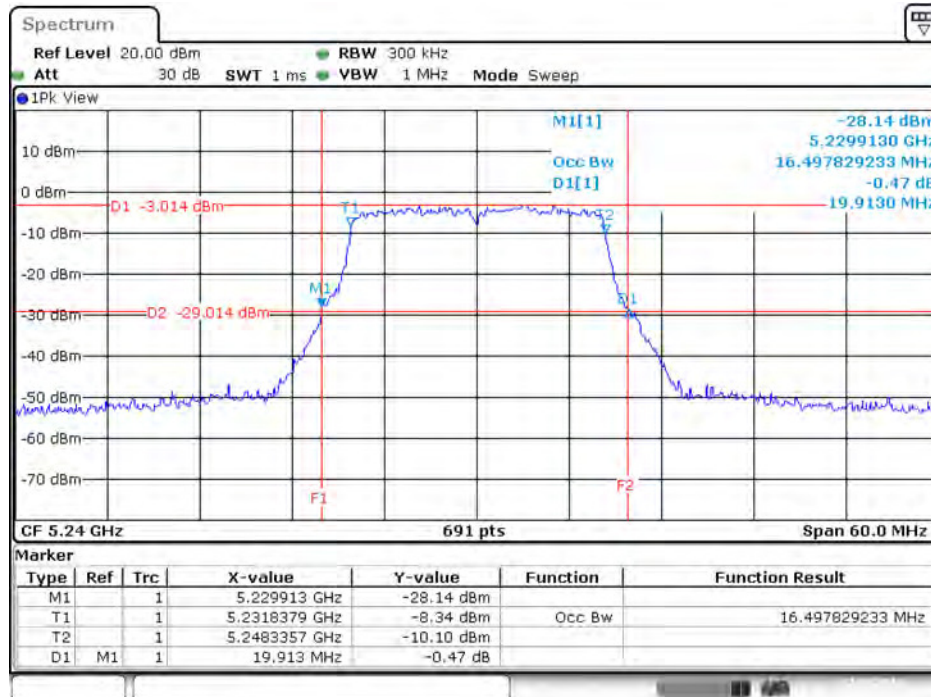
Date: 22.MAY.2016 13:24:48

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 4 / 5200 MHz



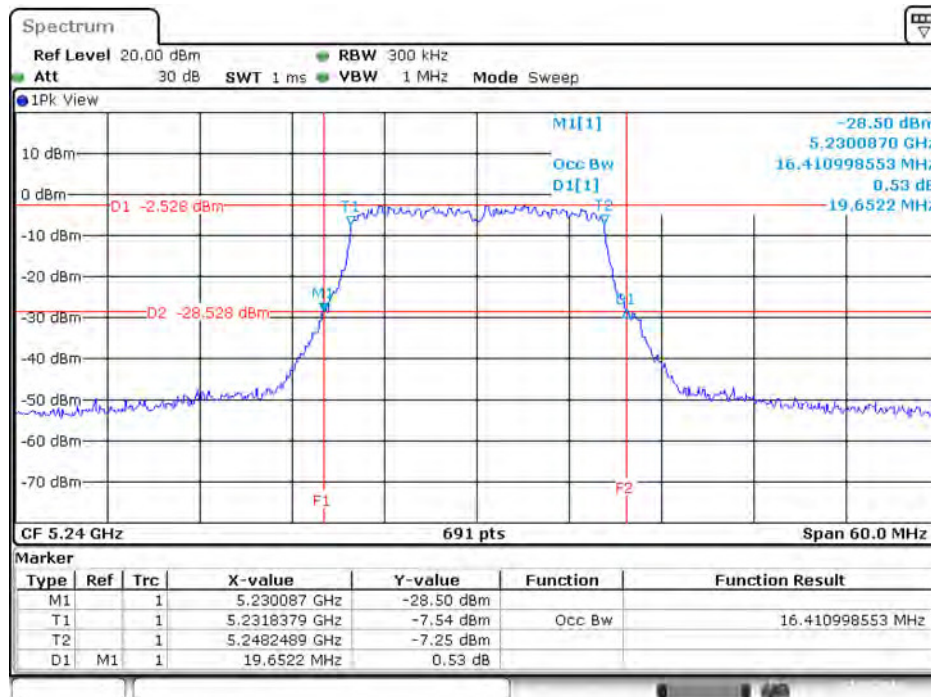
Date: 22.MAY.2016 13:22:46

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5240 MHz



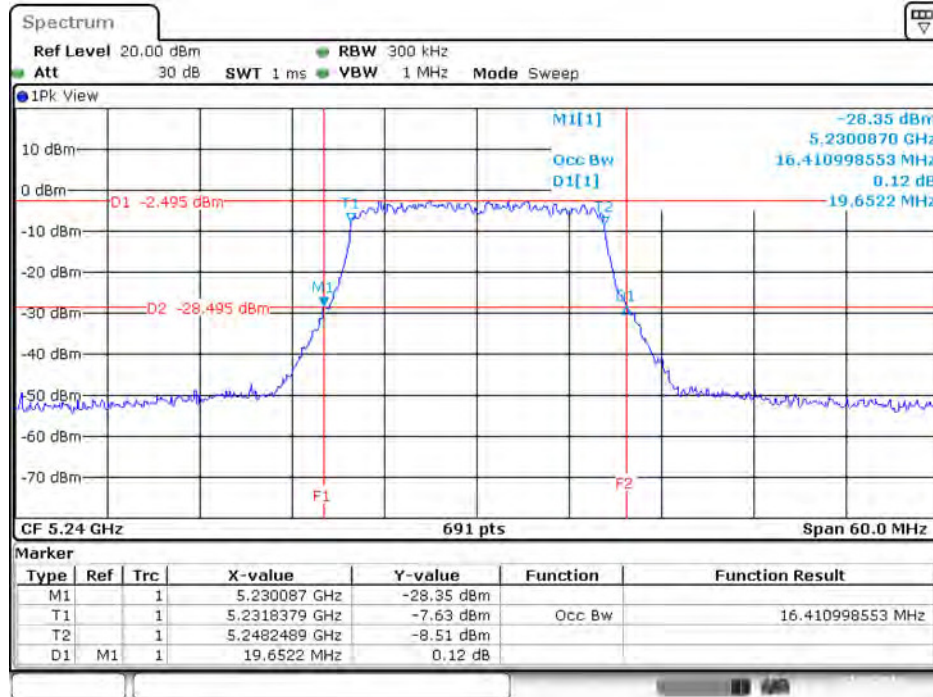
Date: 22.MAY.2016 13:26:29

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5240 MHz



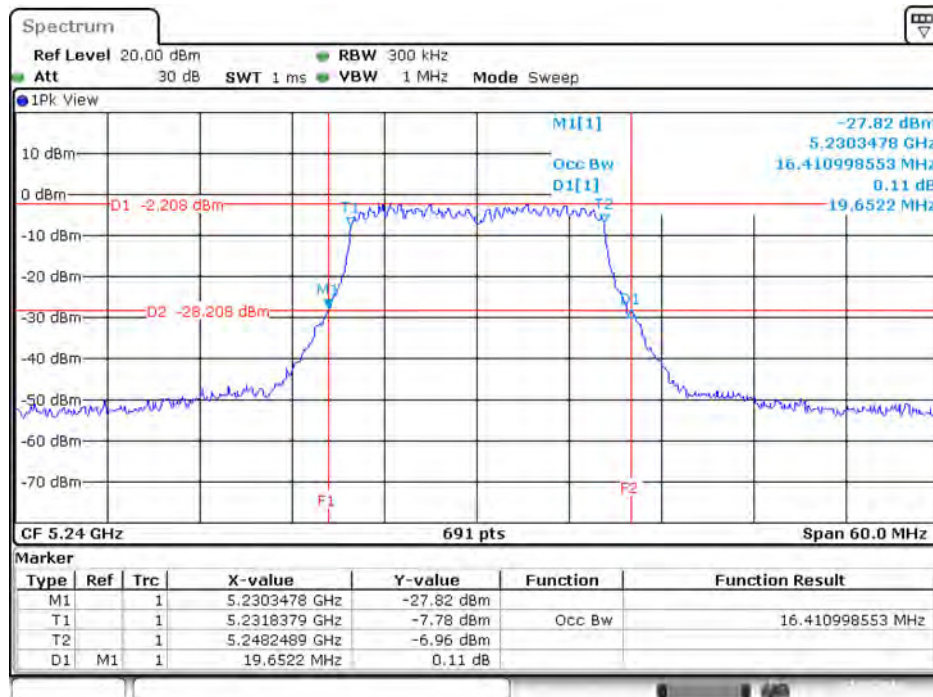
Date: 22.MAY.2016 13:26:44

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5240 MHz



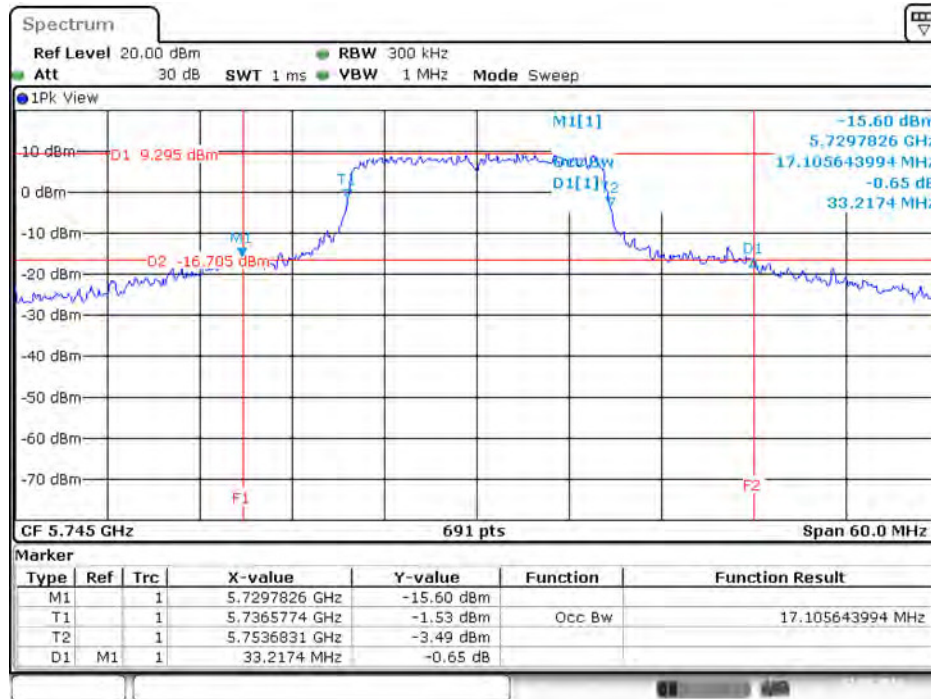
Date: 22.MAY.2016 13:27:04

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5240 MHz



Date: 22.MAY.2016 13:27:20

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5745 MHz



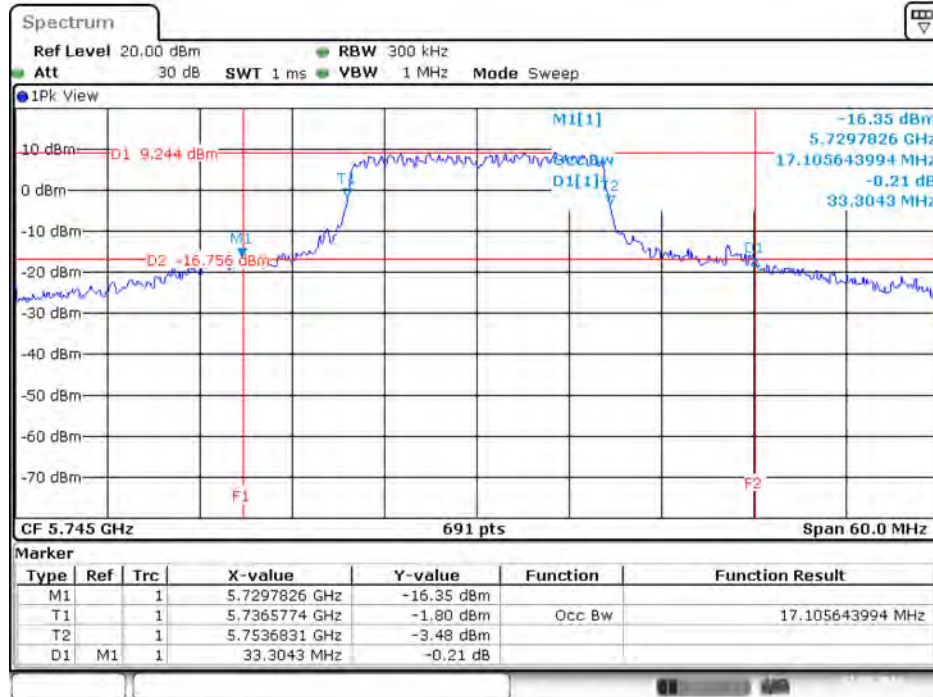
Date: 22.MAY.2016 13:32:06

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5745 MHz



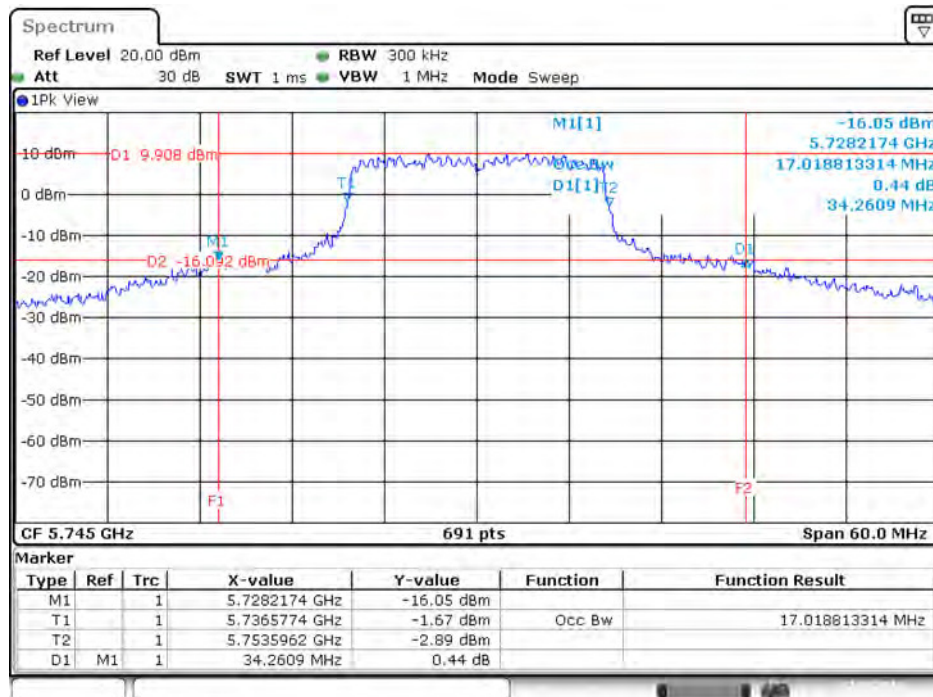
Date: 22.MAY.2016 13:31:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5745 MHz



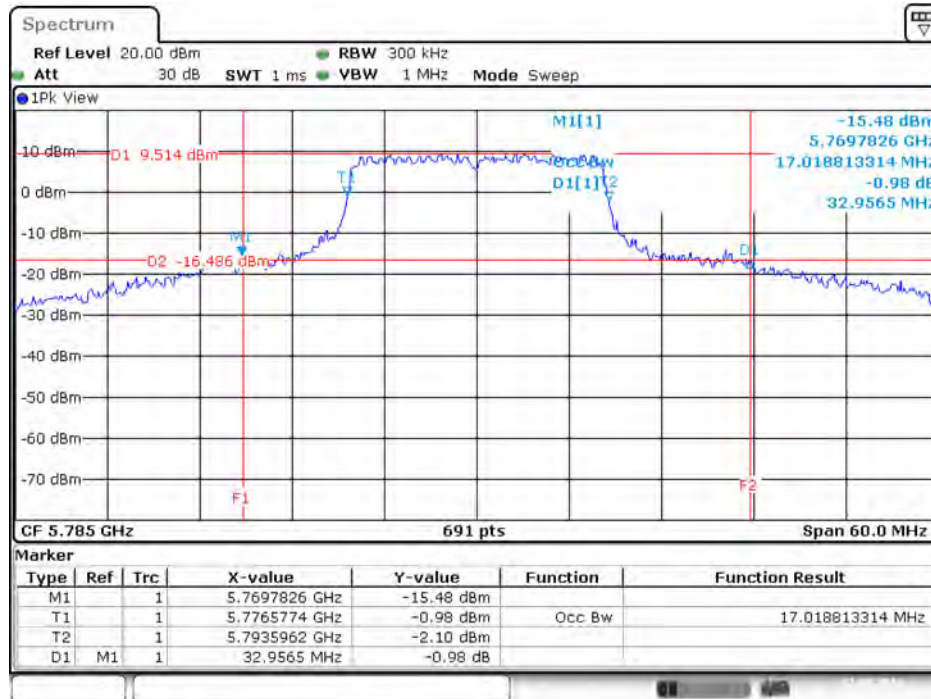
Date: 22.MAY.2016 13:31:45

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5745 MHz



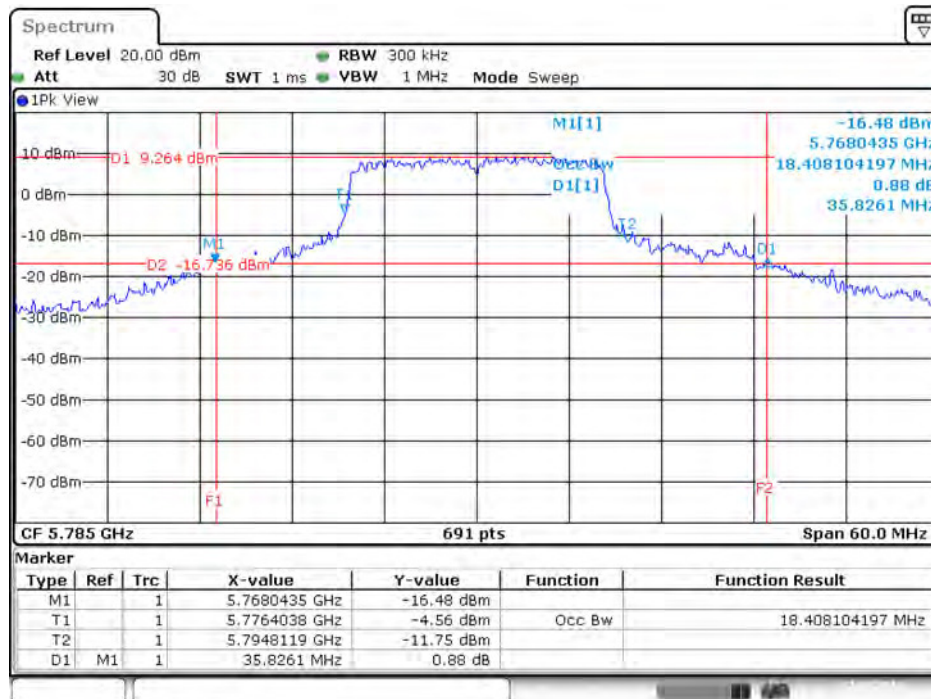
Date: 22.MAY.2016 13:31:29

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5785 MHz



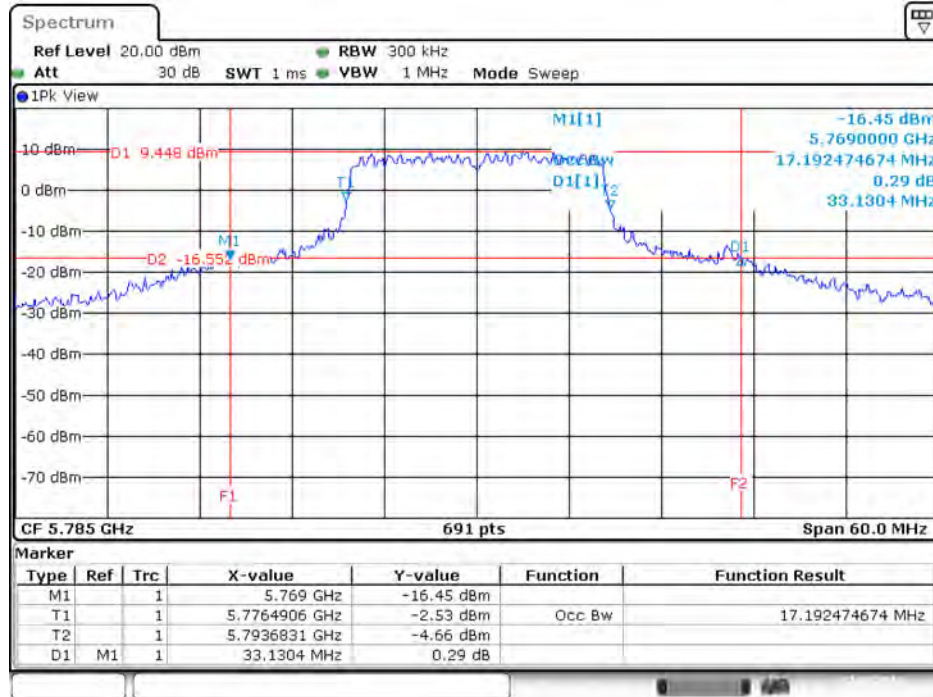
Date: 22.MAY.2016 14:46:22

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5785 MHz



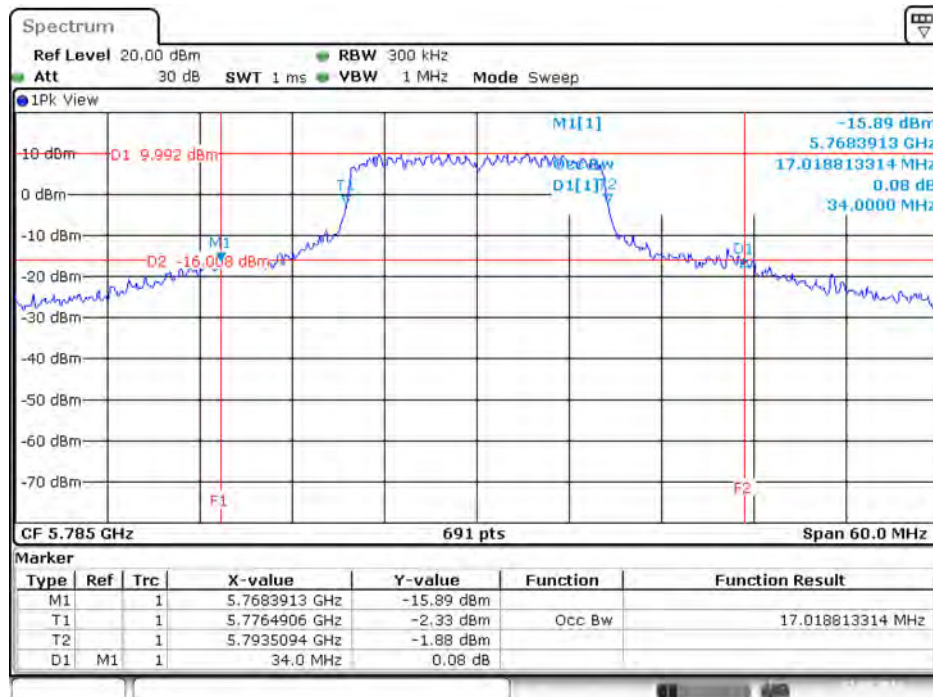
Date: 22.MAY.2016 14:46:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5785 MHz



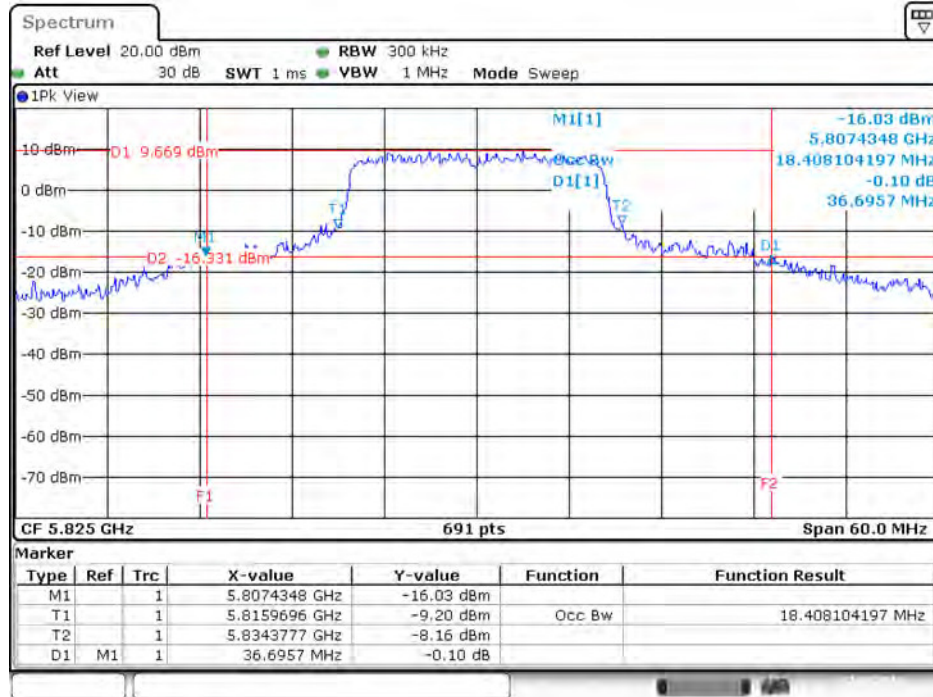
Date: 22.MAY.2016 14:46:50

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5785 MHz



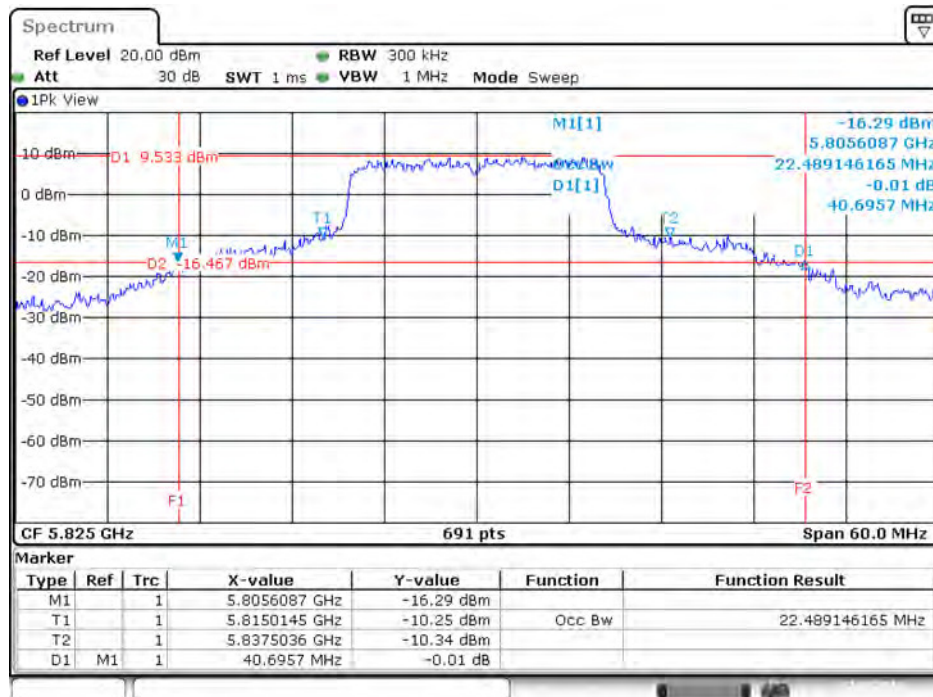
Date: 22.MAY.2016 14:47:02

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5825 MHz



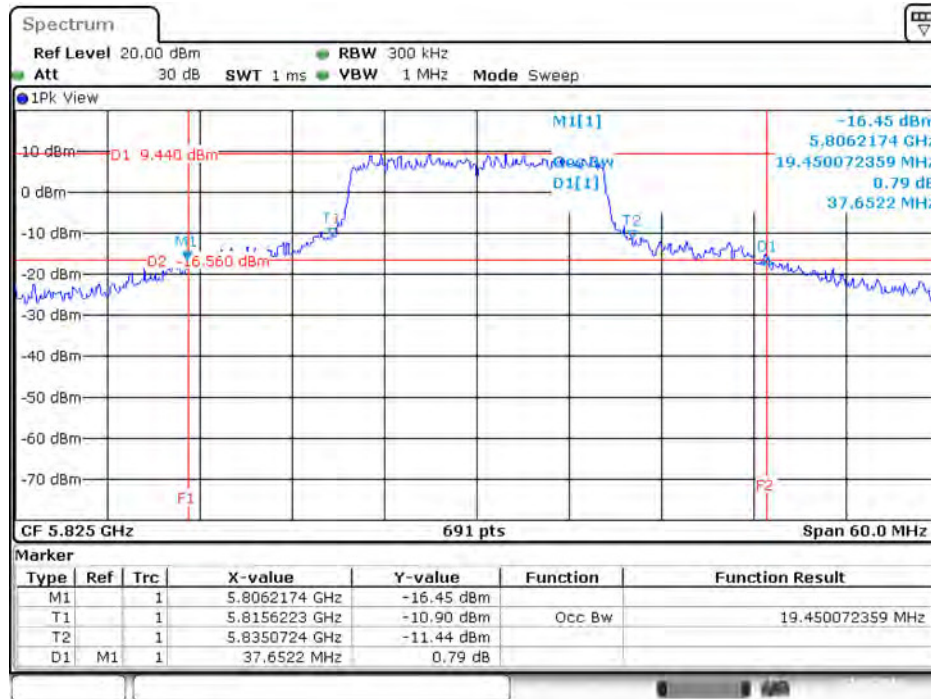
Date: 22.MAY.2016 14:48:01

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5825 MHz



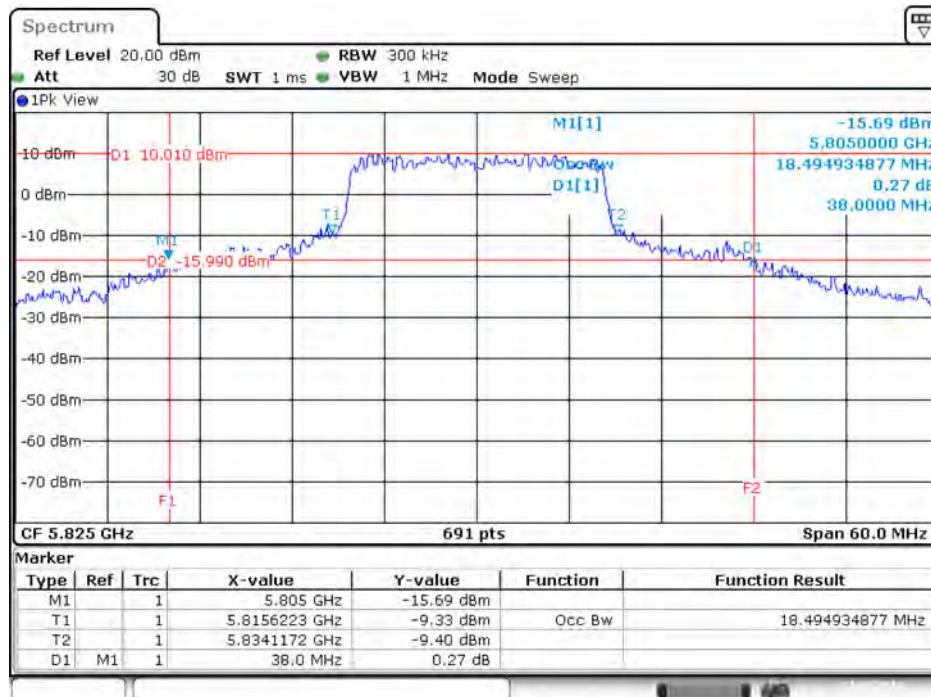
Date: 22.MAY.2016 14:47:50

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5825 MHz



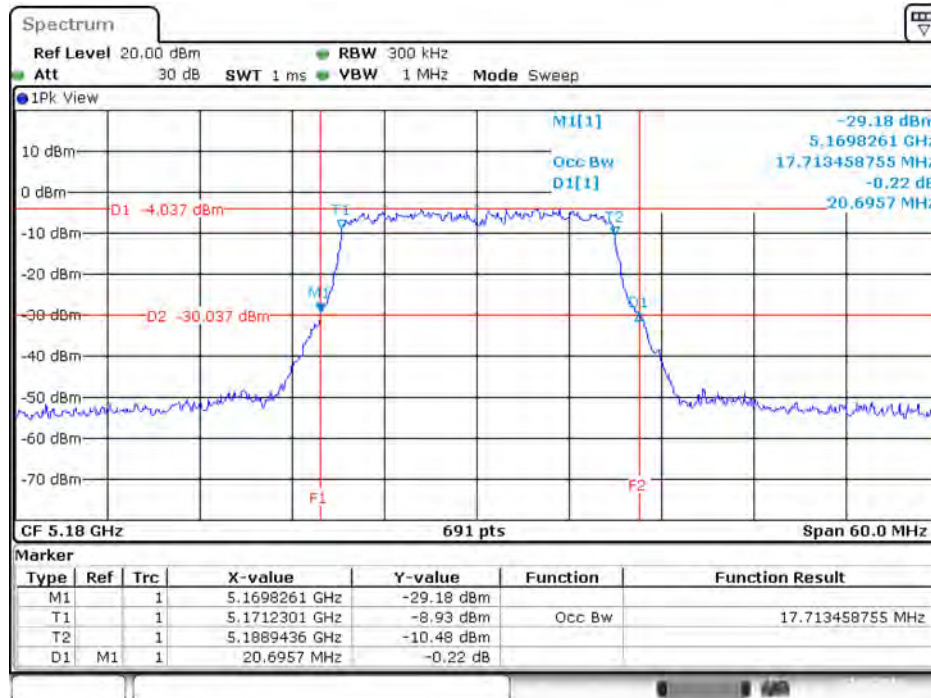
Date: 22.MAY.2016 14:47:40

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5825 MHz



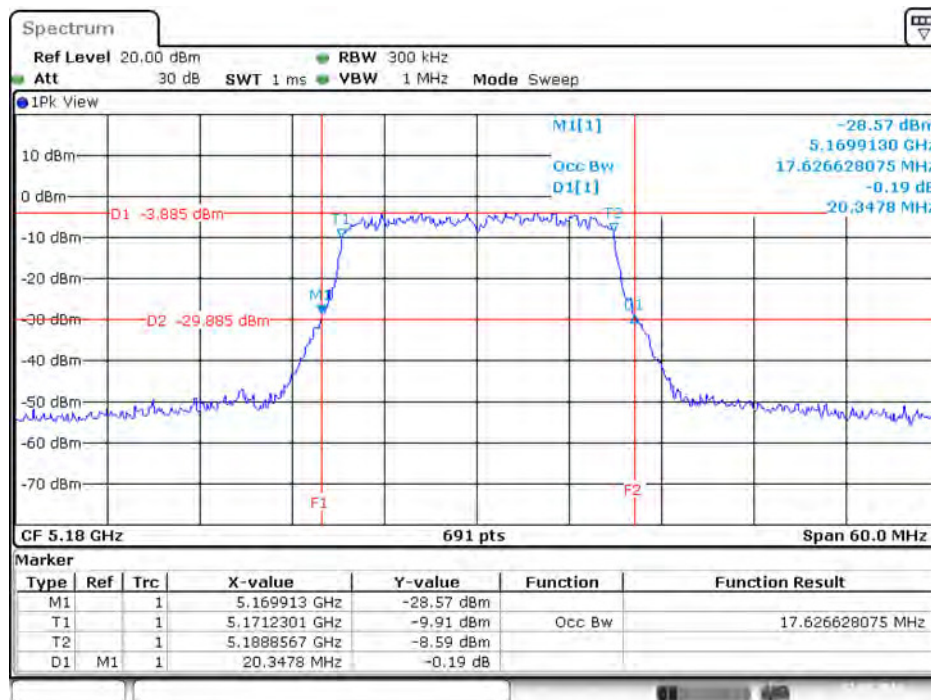
Date: 22.MAY.2016 14:47:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5180 MHz



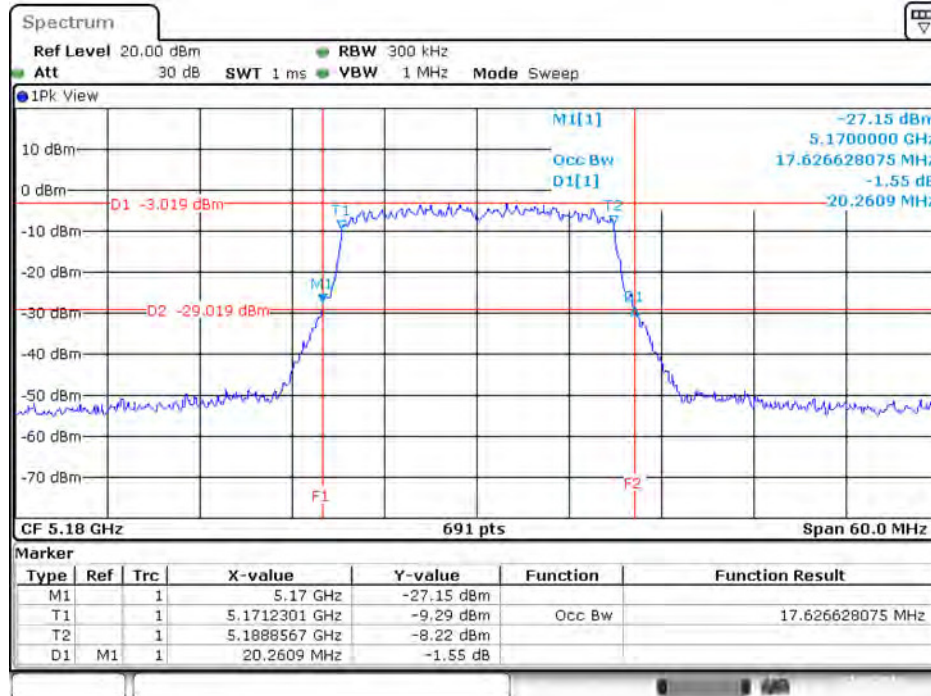
Date: 22.MAY.2016 14:55:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5180 MHz



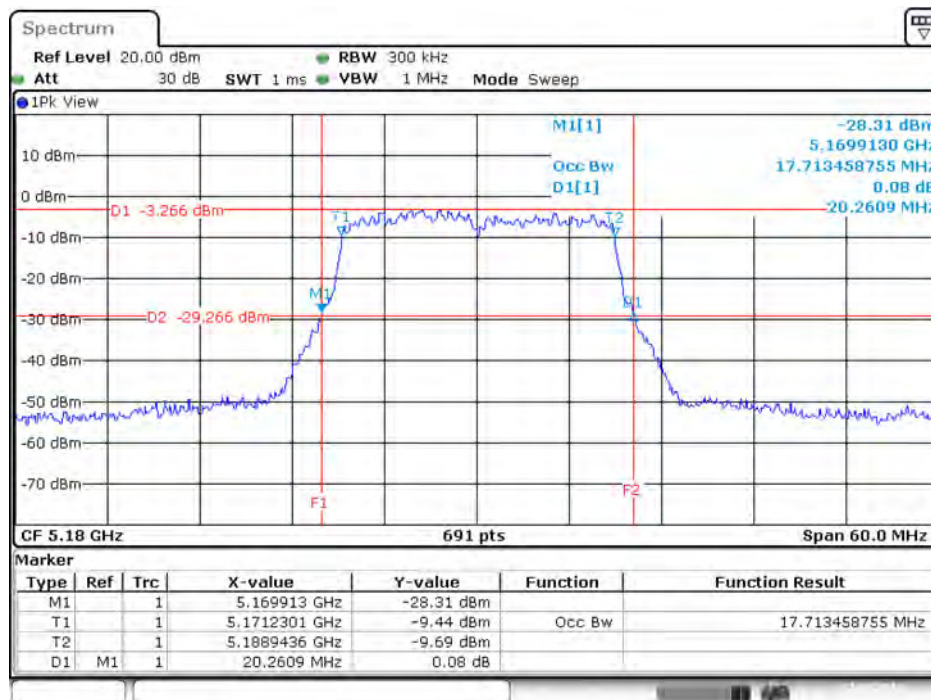
Date: 22.MAY.2016 14:55:44

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5180 MHz



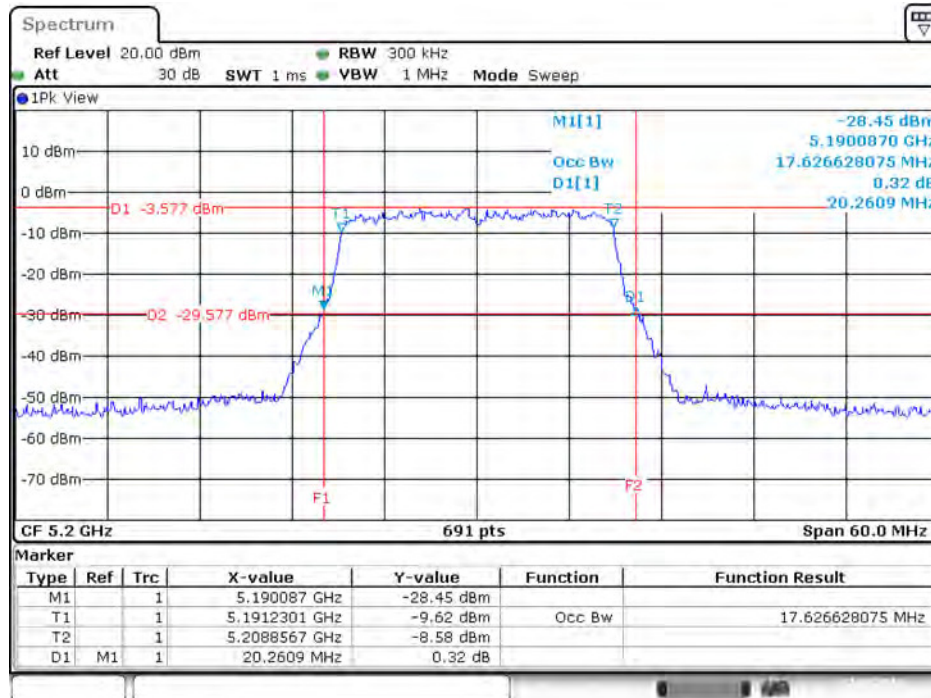
Date: 22.MAY.2016 14:55:34

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5180 MHz



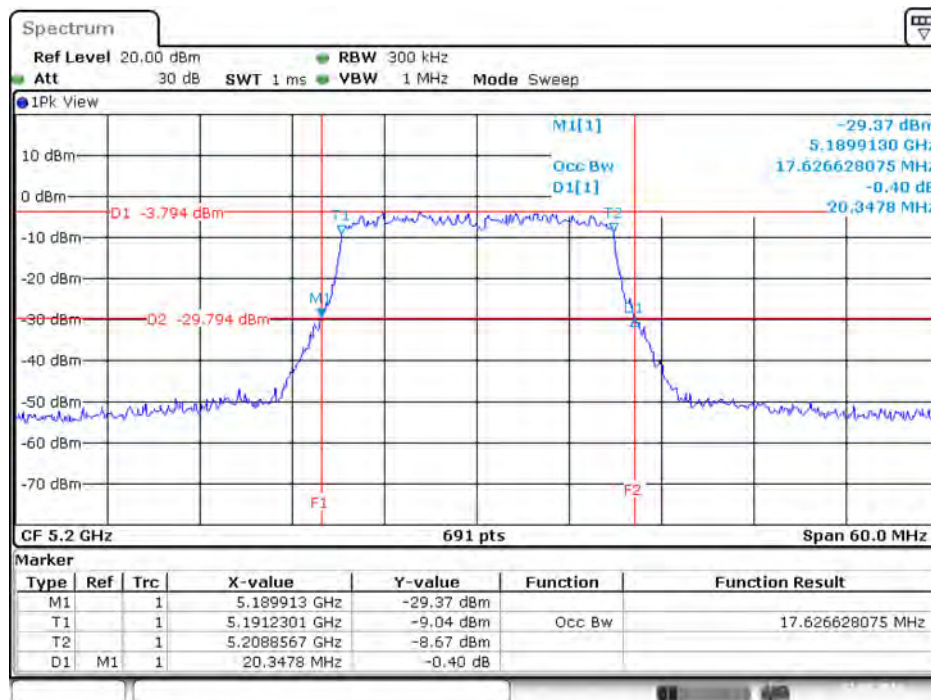
Date: 22.MAY.2016 14:55:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5200 MHz



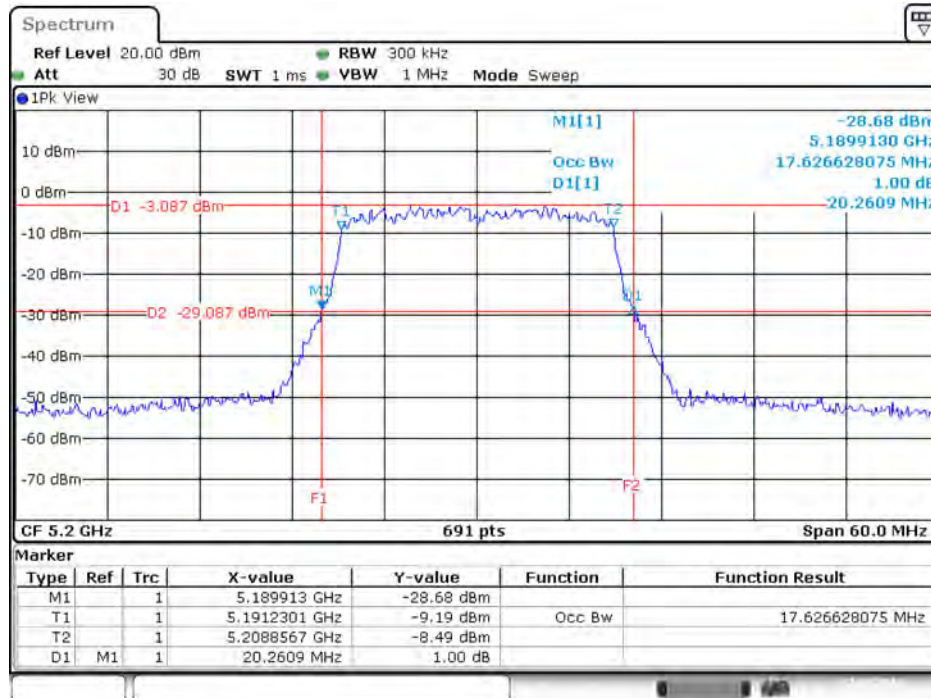
Date: 22.MAY.2016 14:56:20

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5200 MHz



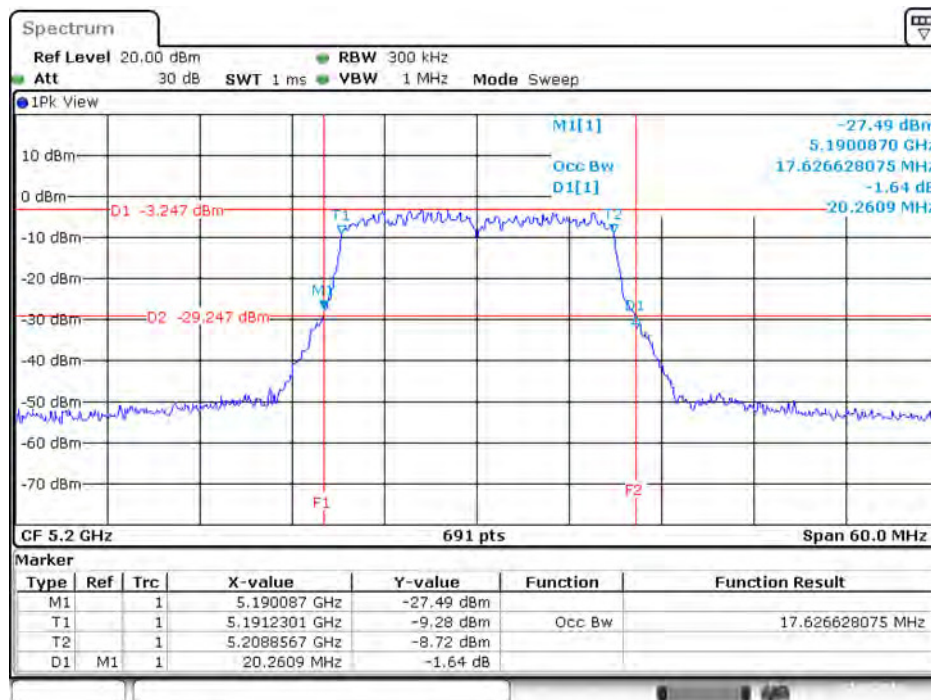
Date: 22.MAY.2016 14:56:34

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5200 MHz



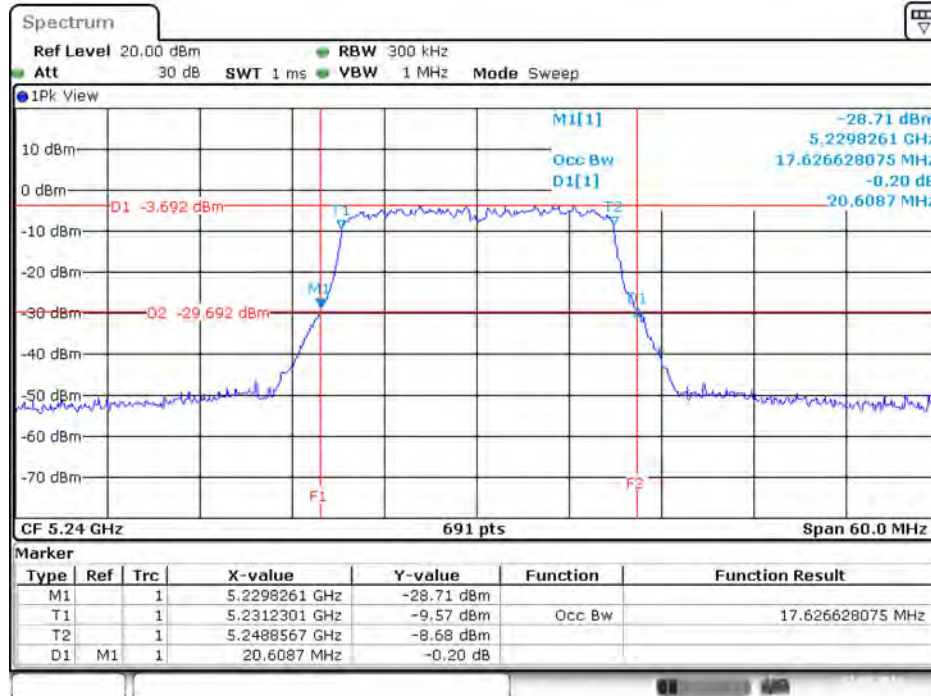
Date: 22.MAY.2016 14:56:49

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5200 MHz



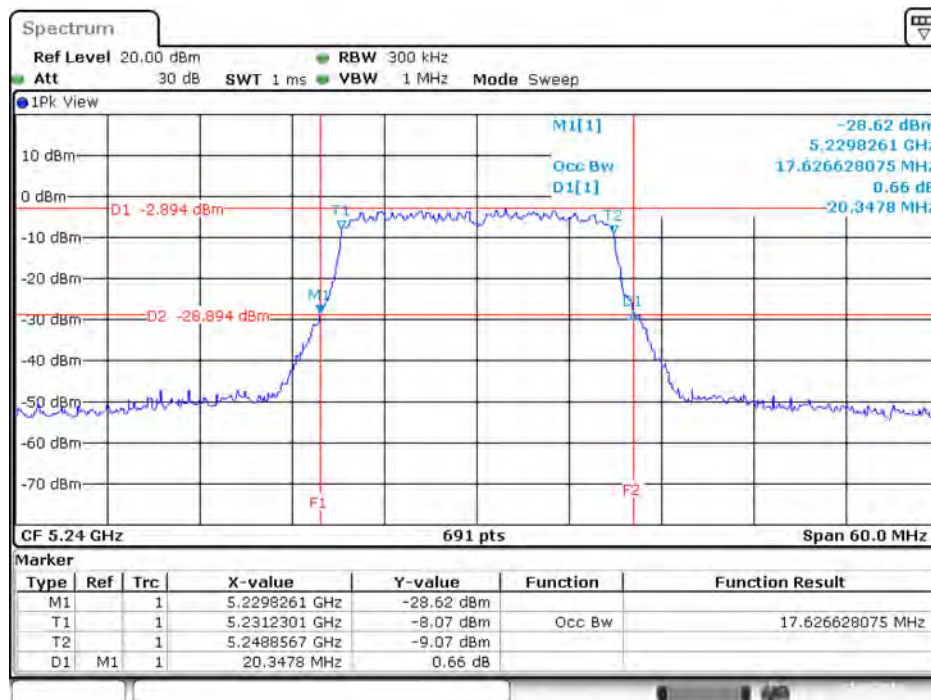
Date: 22.MAY.2016 14:57:01

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5240 MHz



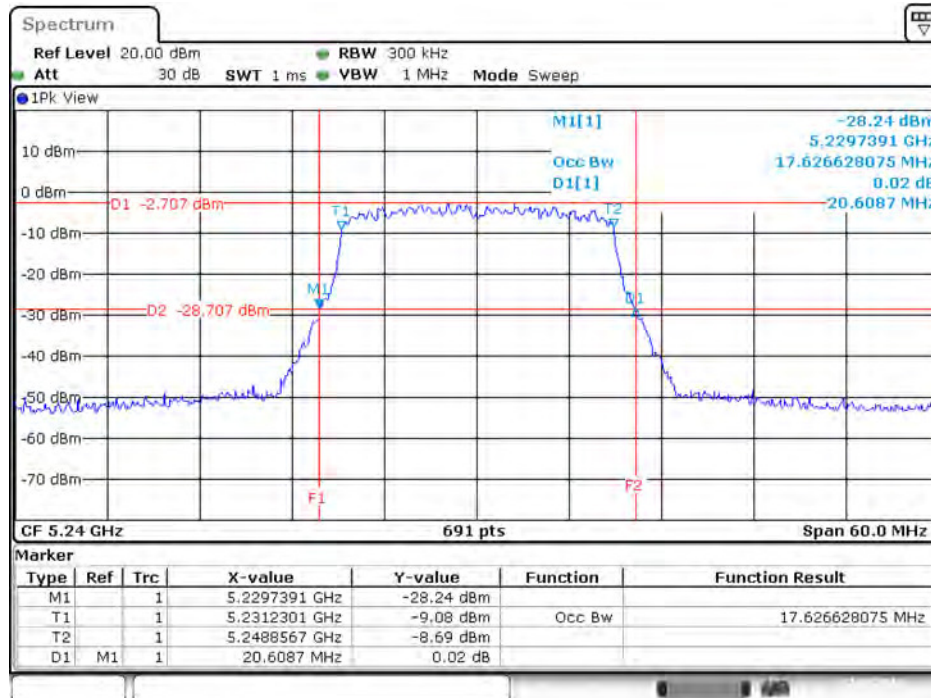
Date: 22.MAY.2016 14:58:05

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5240 MHz



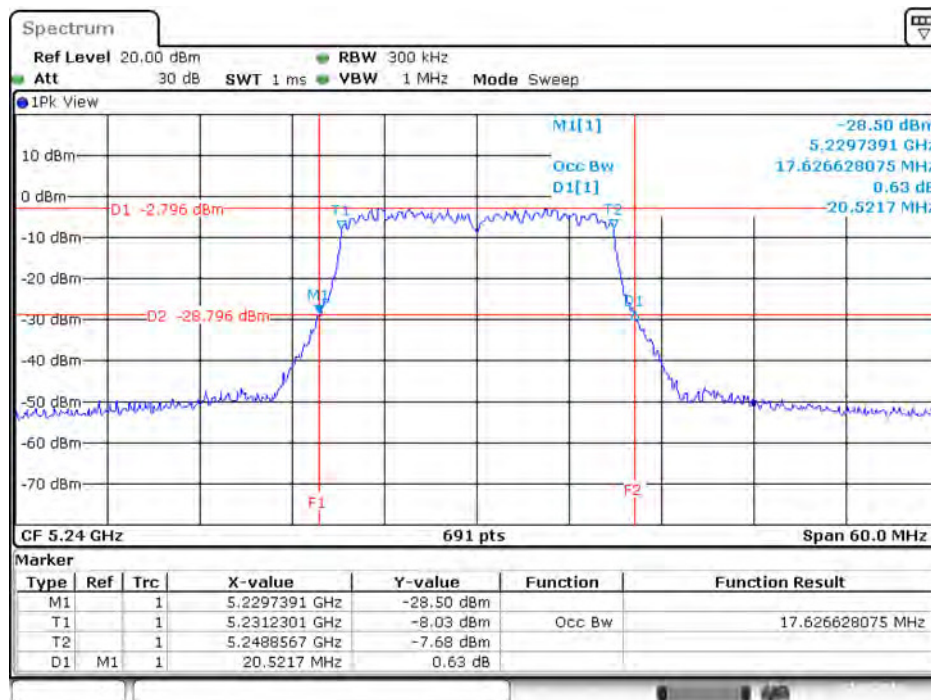
Date: 22.MAY.2016 14:57:54

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5240 MHz



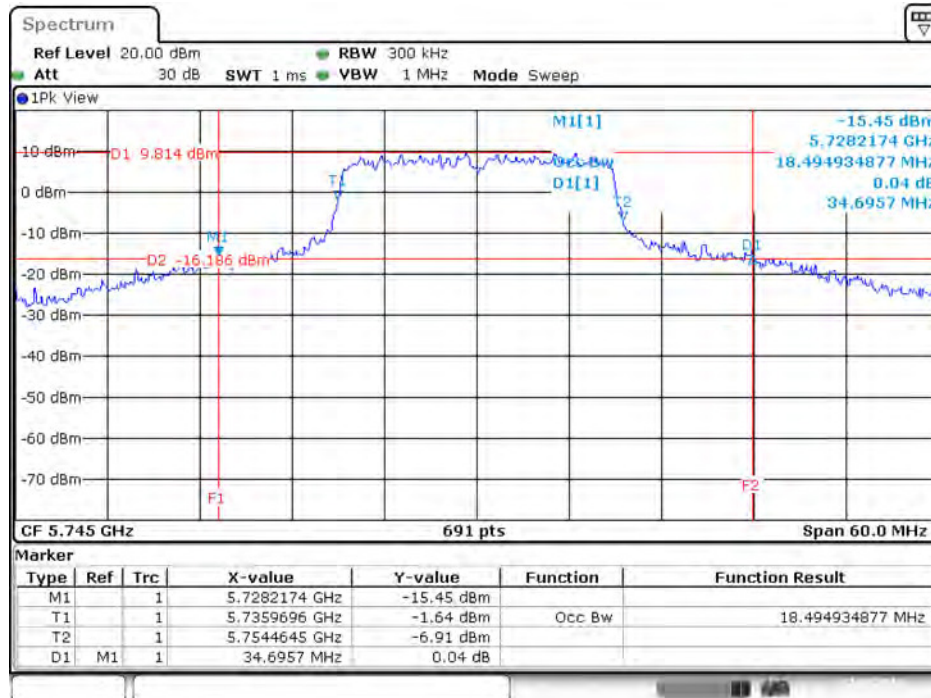
Date: 22.MAY.2016 14:57:44

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5240 MHz



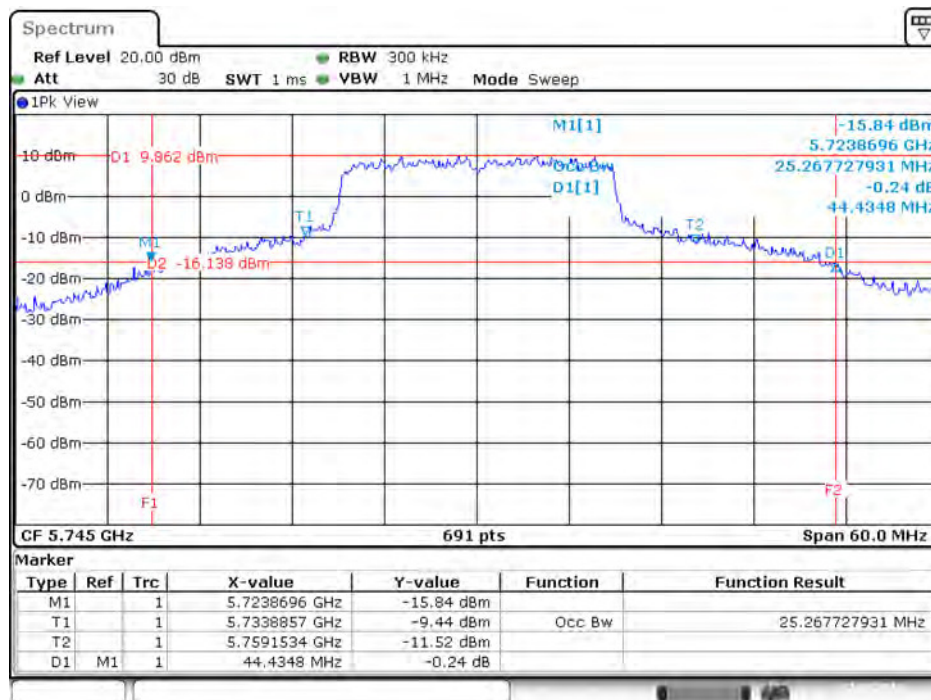
Date: 22.MAY.2016 14:57:31

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5745 MHz



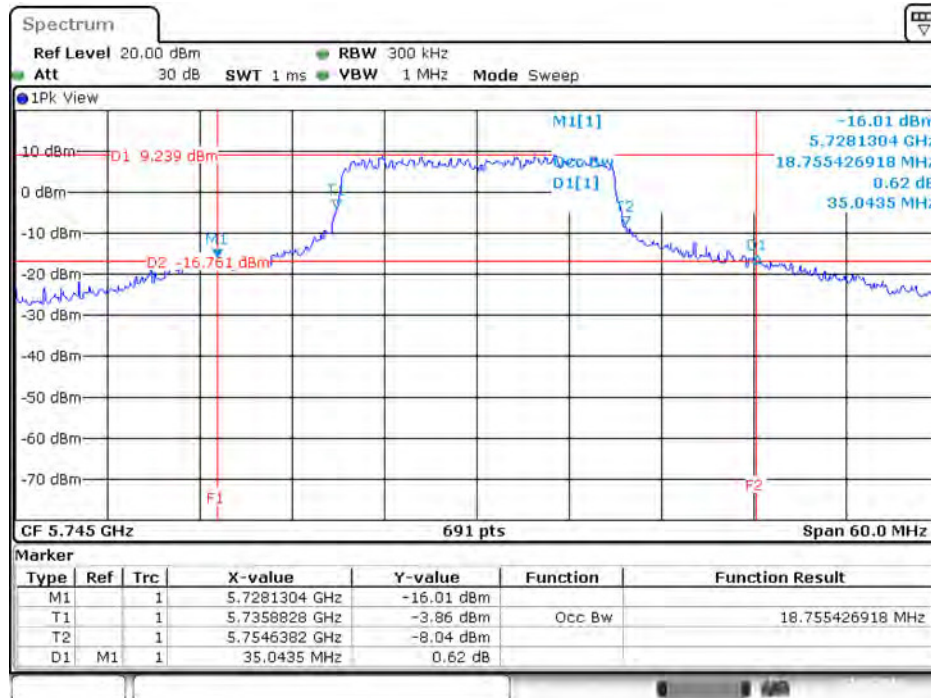
Date: 22.MAY.2016 14:52:24

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5745 MHz



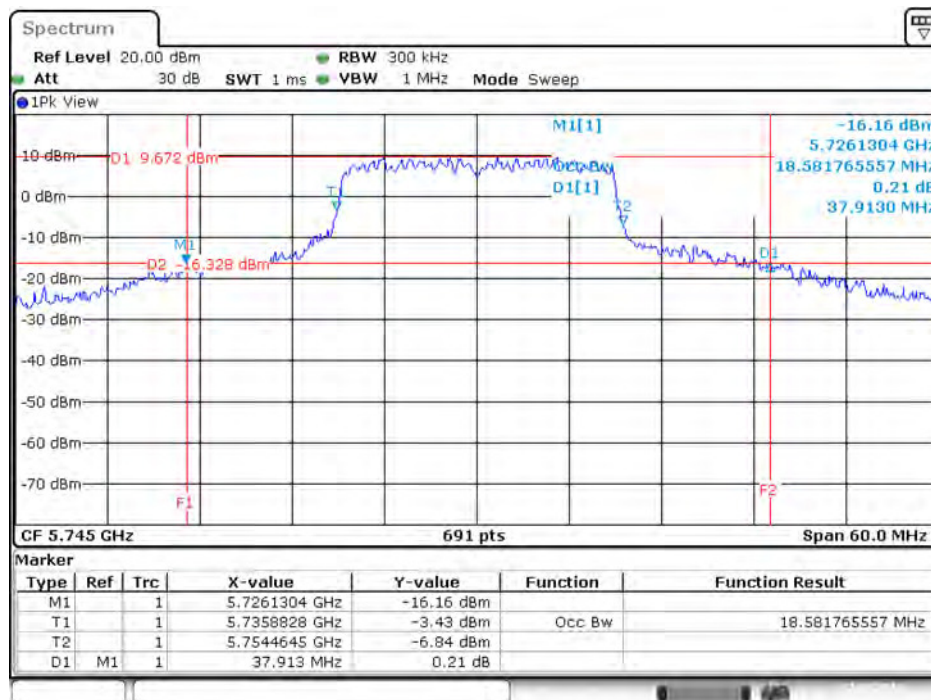
Date: 22.MAY.2016 14:52:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5745 MHz



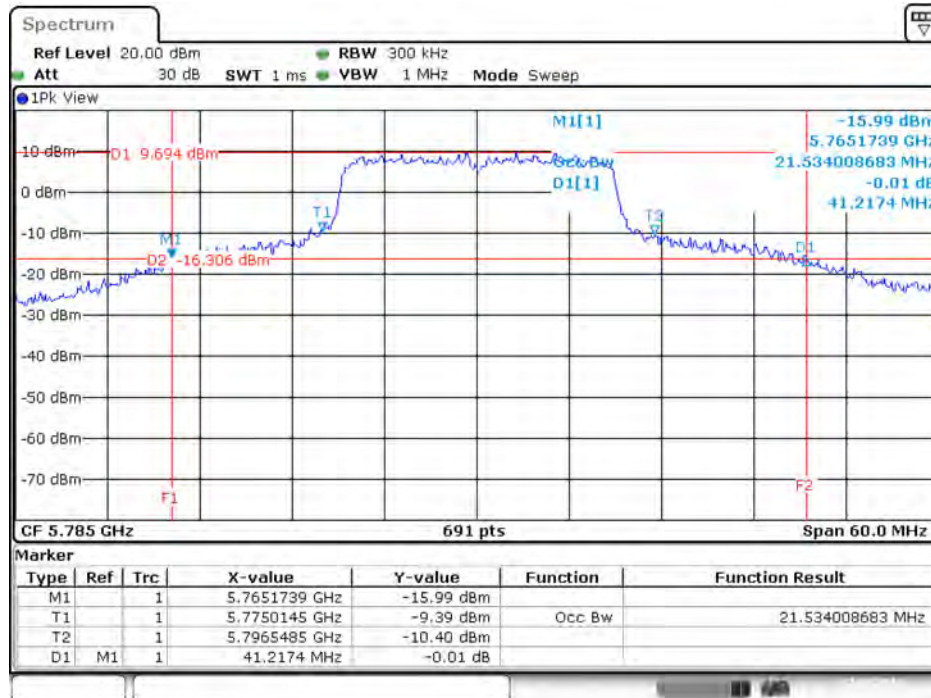
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5745 MHz



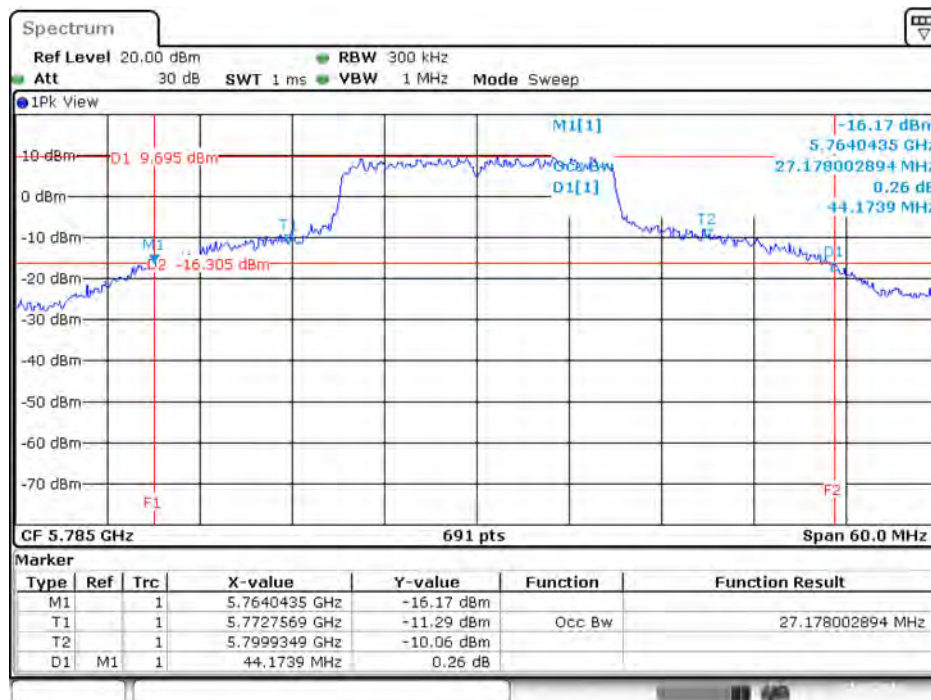
Date: 22.MAY.2016 14:53:04

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5785 MHz



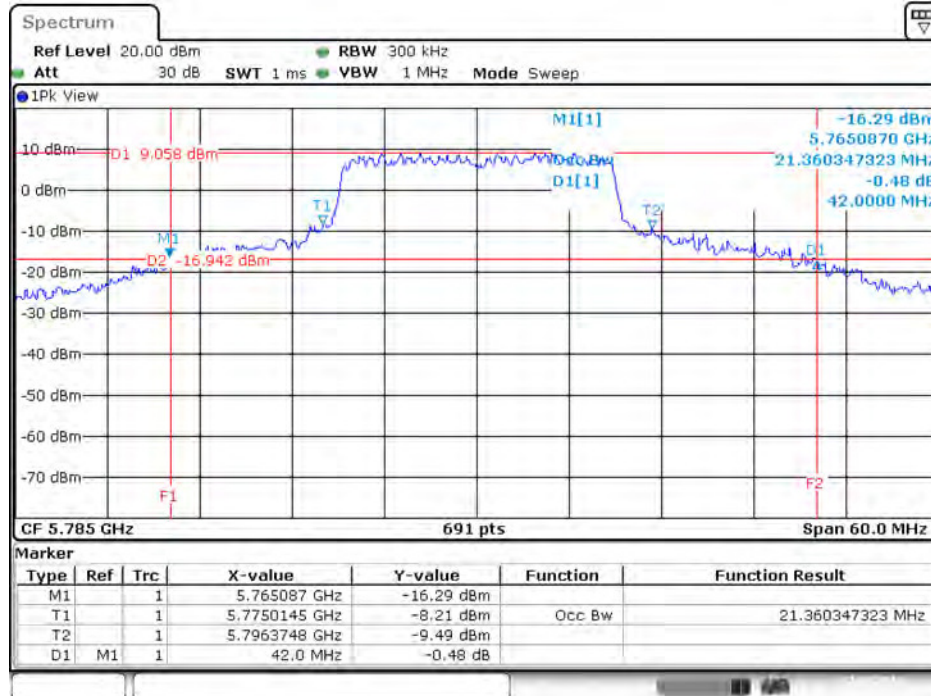
Date: 22.MAY.2016 14:51:54

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5785 MHz



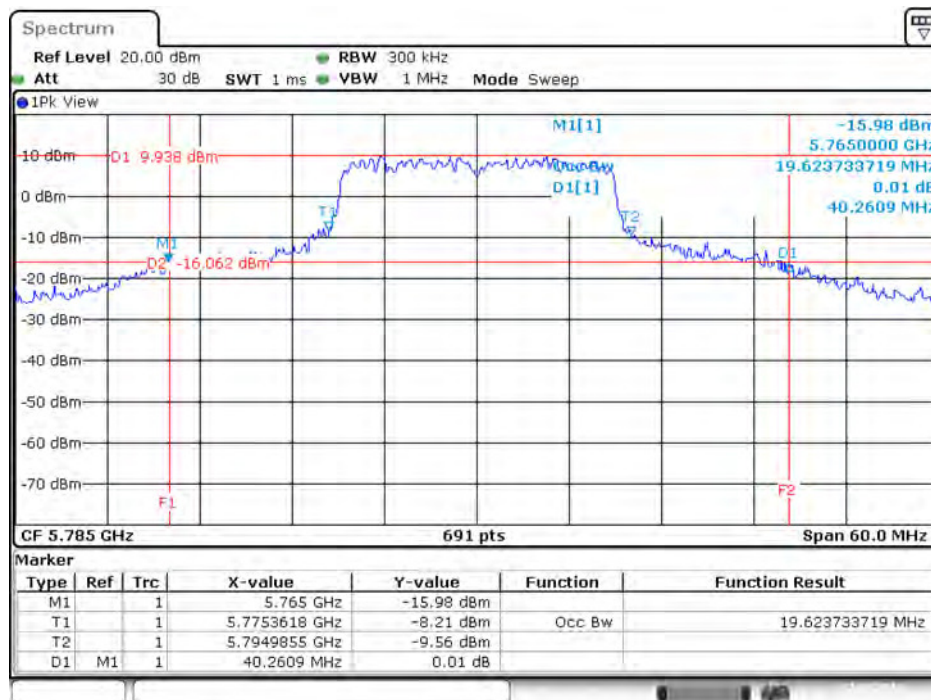
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5785 MHz



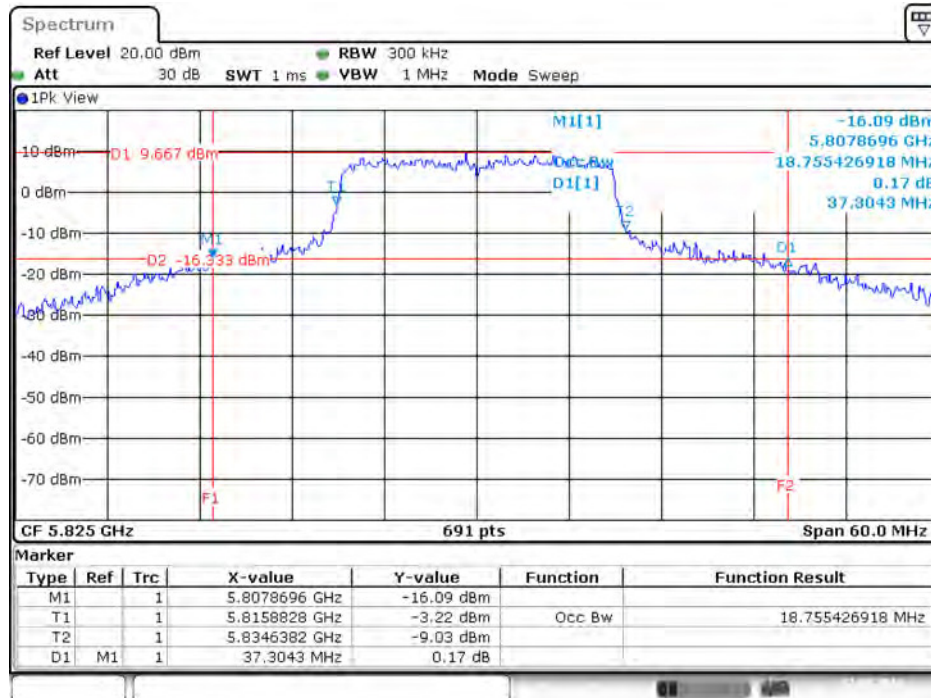
Date: 22.MAY.2016 14:51:32

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5785 MHz



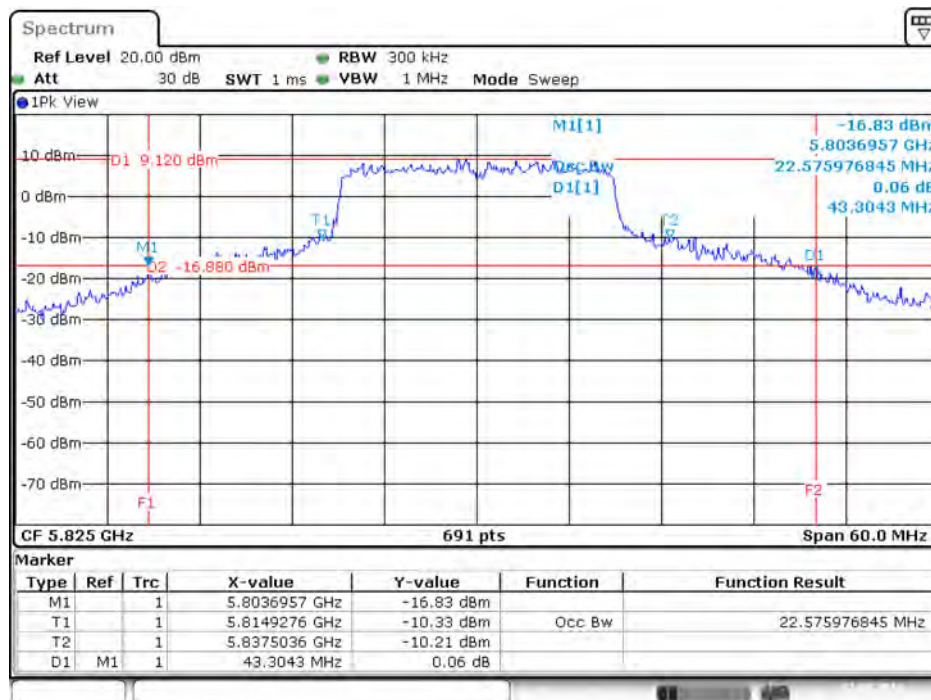
Date: 22.MAY.2016 14:51:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5825 MHz



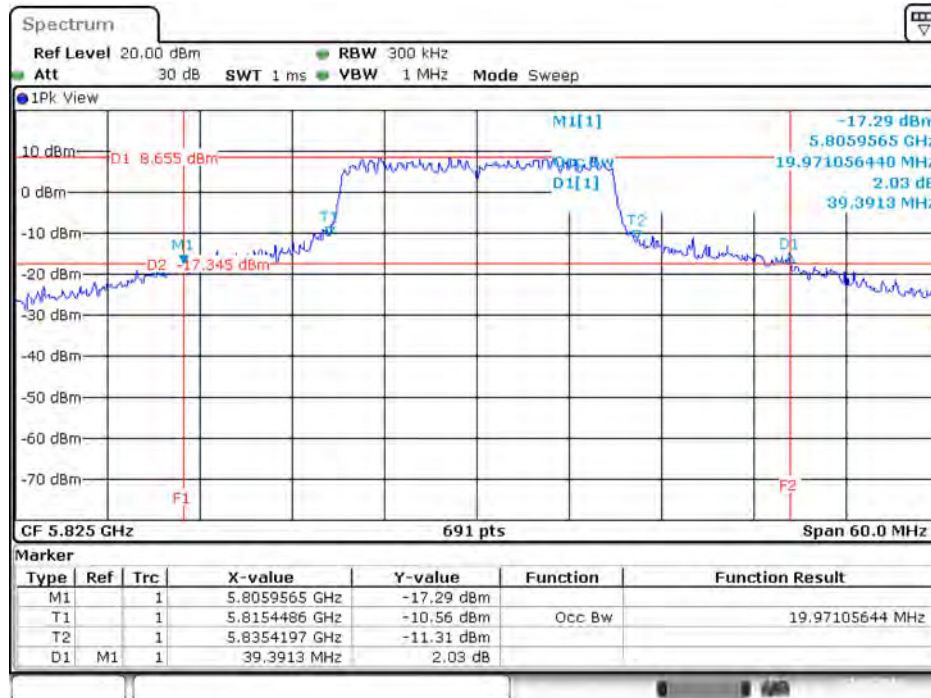
Date: 22.MAY.2016 14:50:19

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5825 MHz



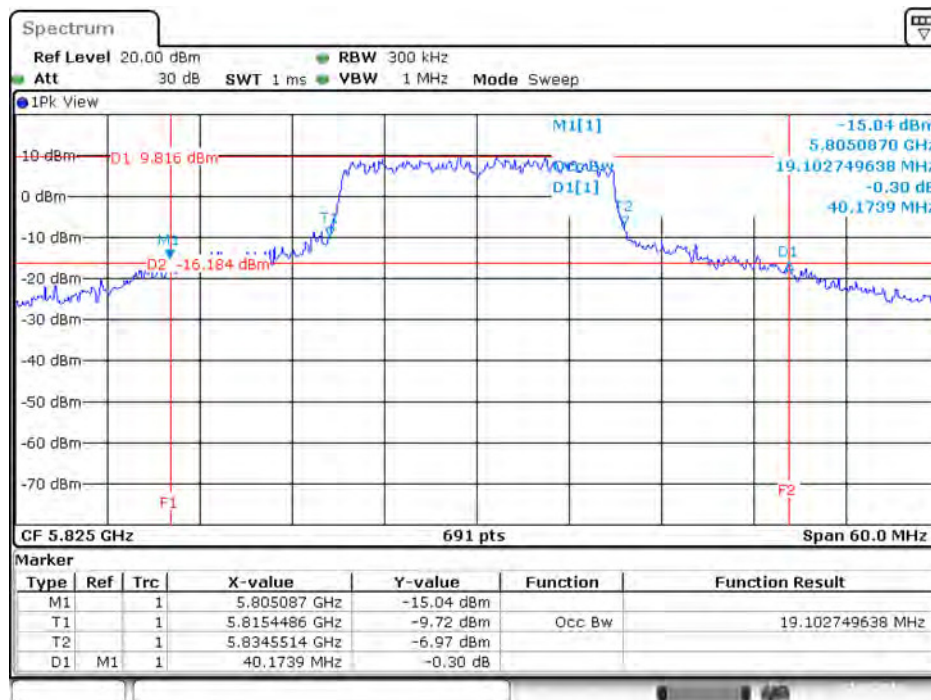
Date: 22.MAY.2016 14:50:31

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5825 MHz



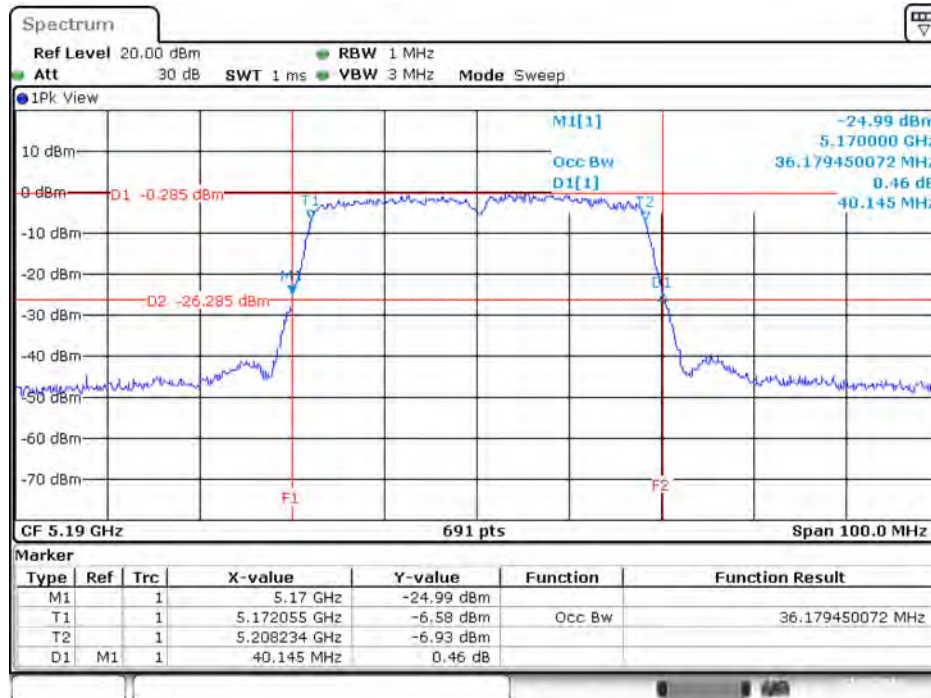
Date: 22.MAY.2016 14:50:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5825 MHz



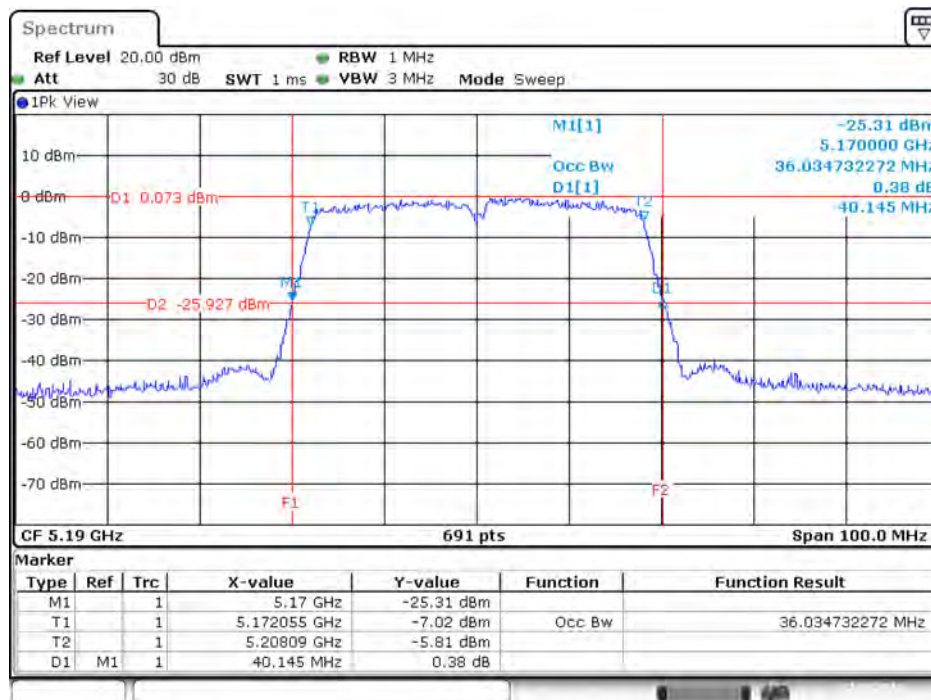
Date: 22.MAY.2016 14:50:52

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5190 MHz



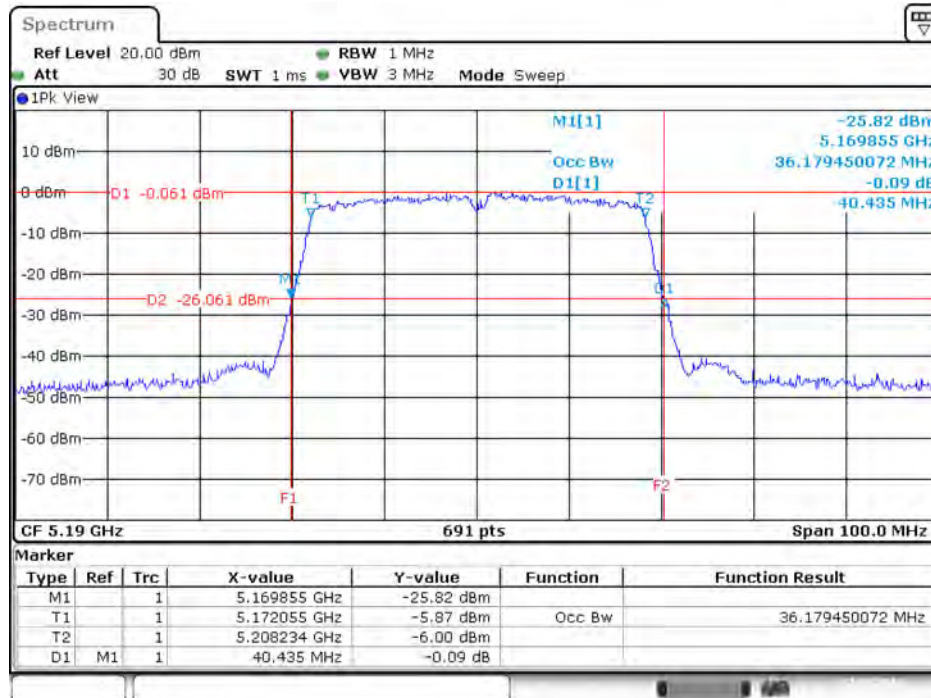
Date: 22.MAY.2016 15:00:20

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5190 MHz



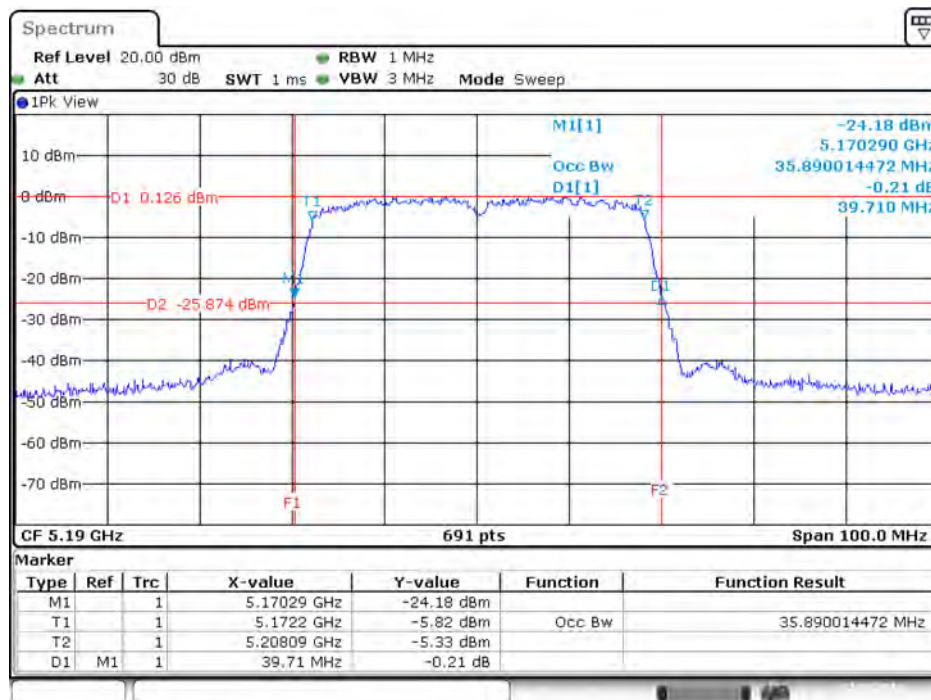
Date: 22.MAY.2016 15:00:36

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5190 MHz



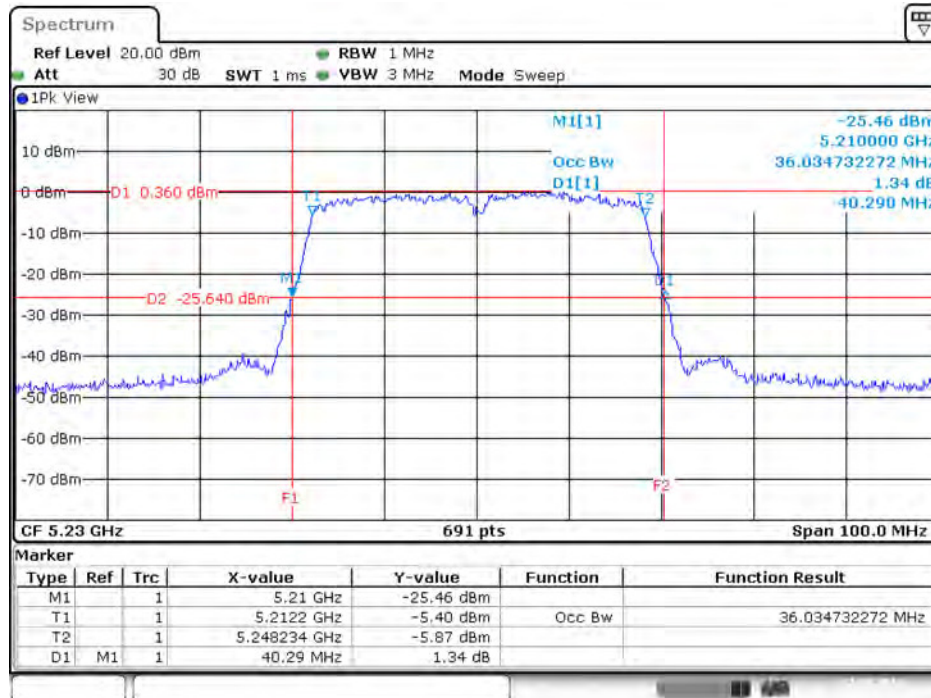
Date: 22.MAY.2016 15:00:46

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5190 MHz



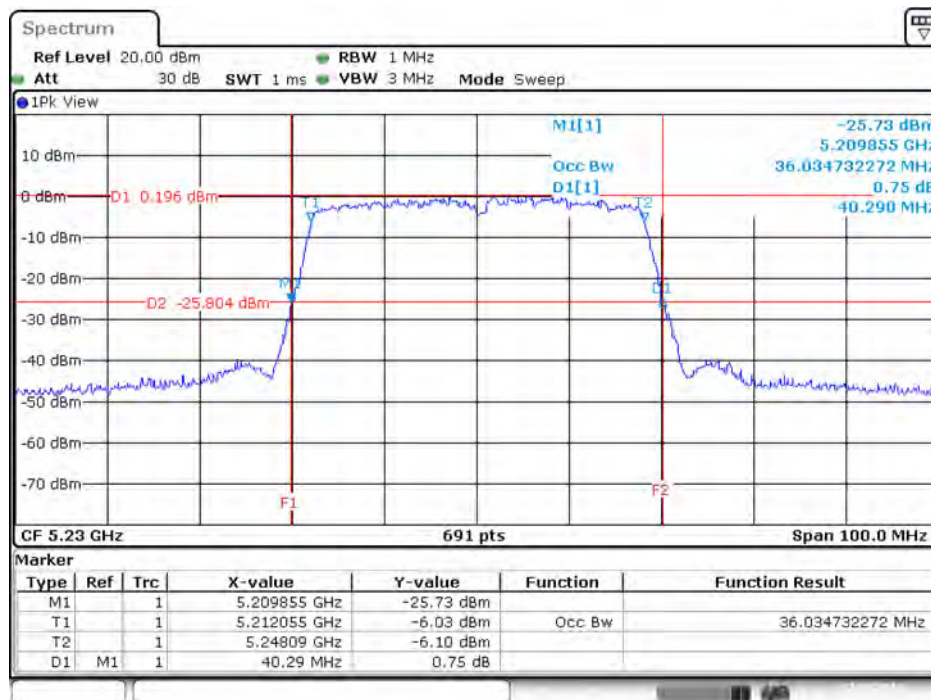
Date: 22.MAY.2016 15:00:58

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5230 MHz



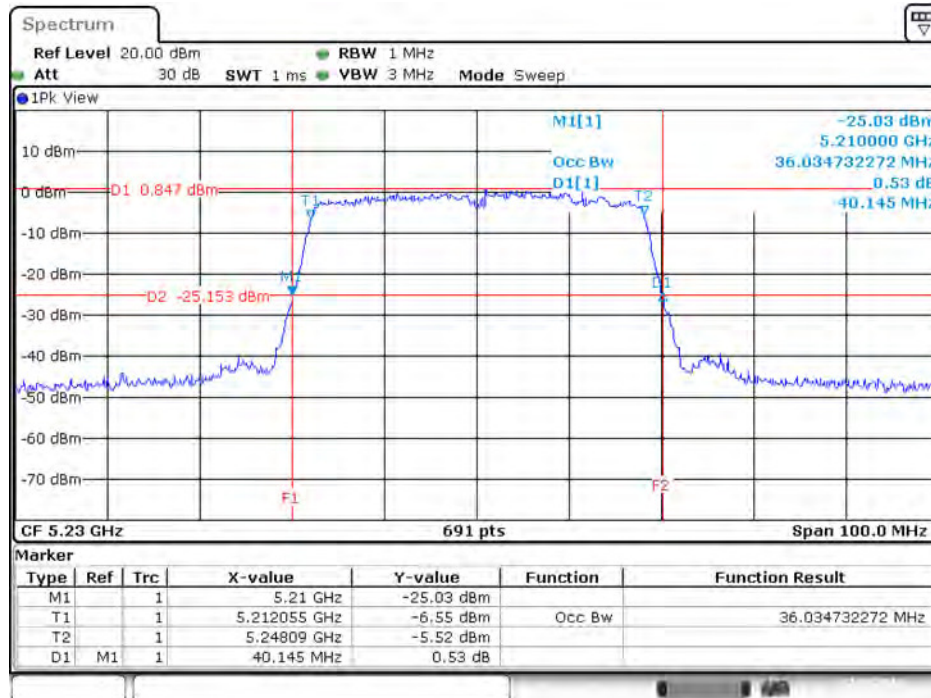
Date: 22.MAY.2016 15:02:04

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5230 MHz



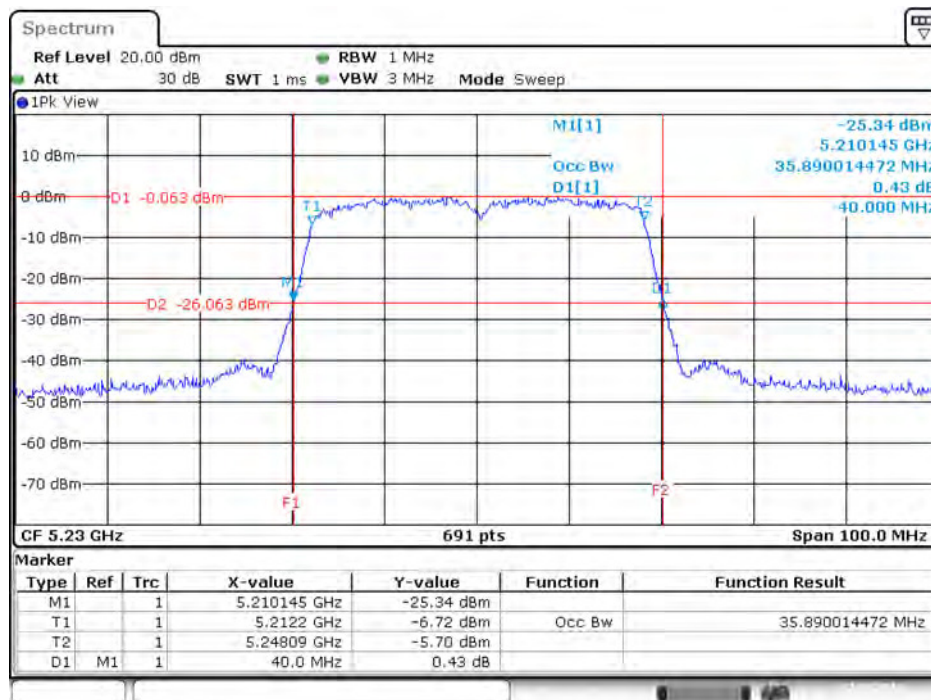
Date: 22.MAY.2016 15:01:53

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5230 MHz



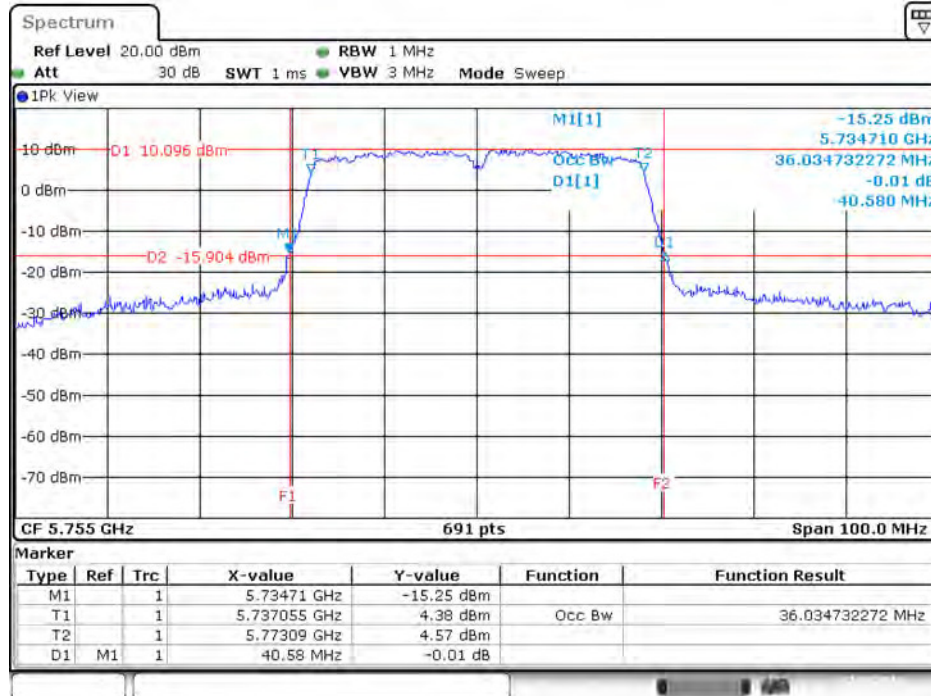
Date: 22.MAY.2016 15:01:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5230 MHz



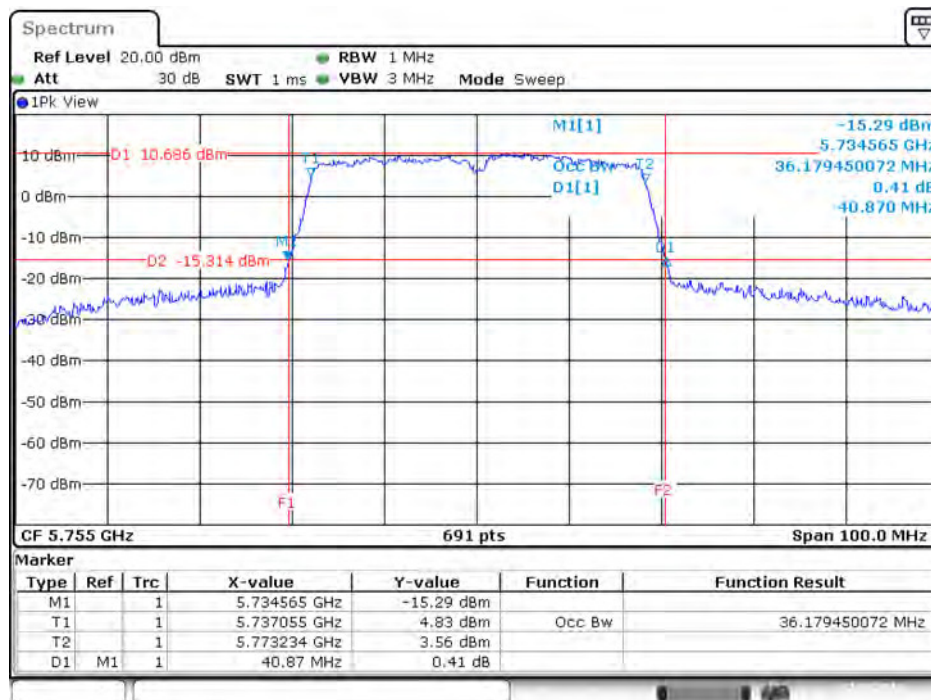
Date: 22.MAY.2016 15:01:28

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5755 MHz



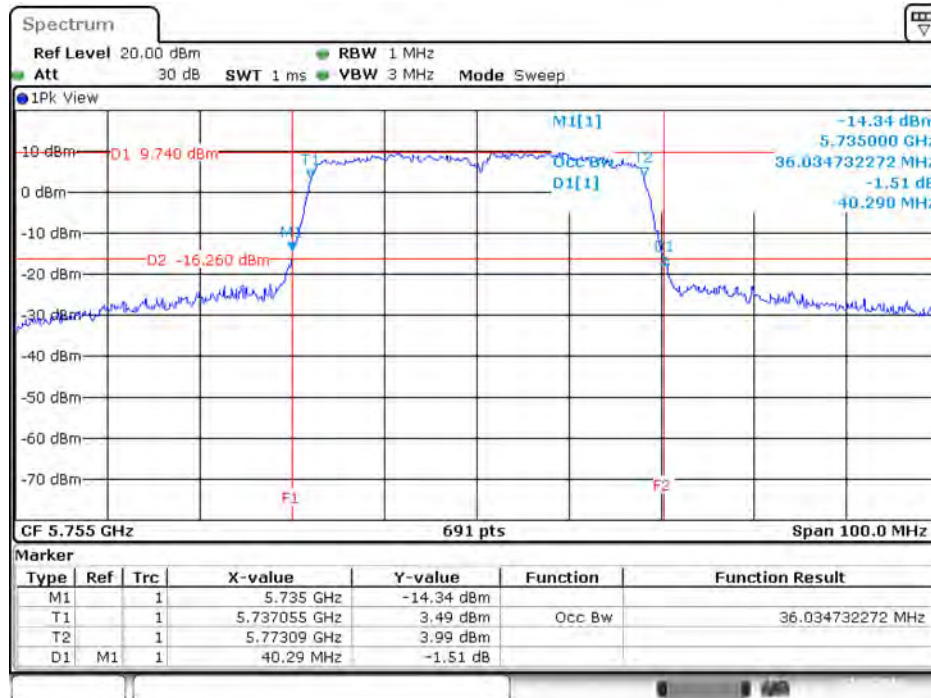
Date: 22.MAY.2016 15:02:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5755 MHz

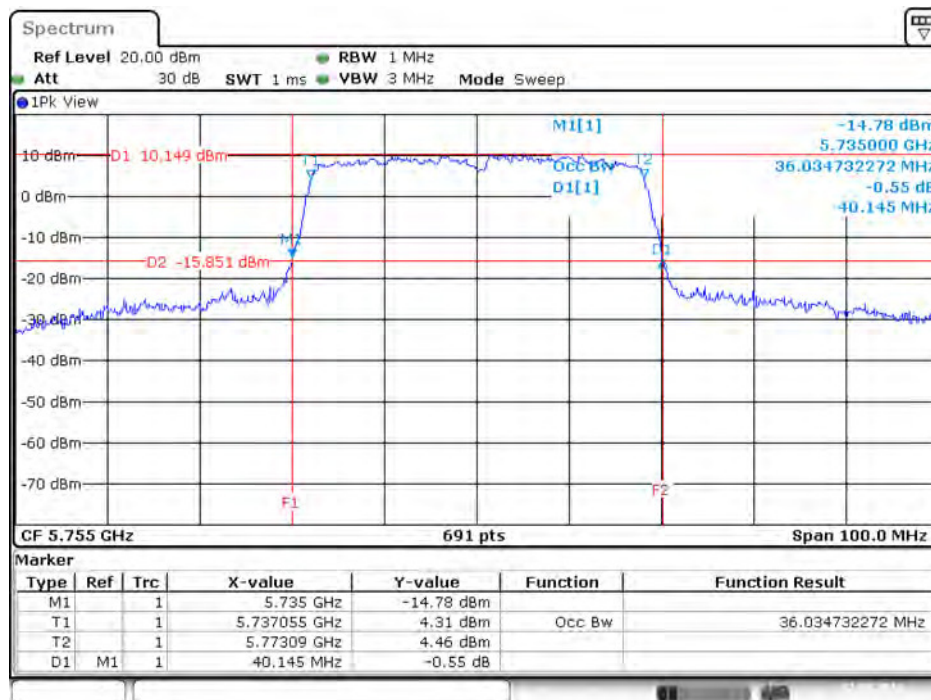


Date: 22.MAY.2016 15:03:06

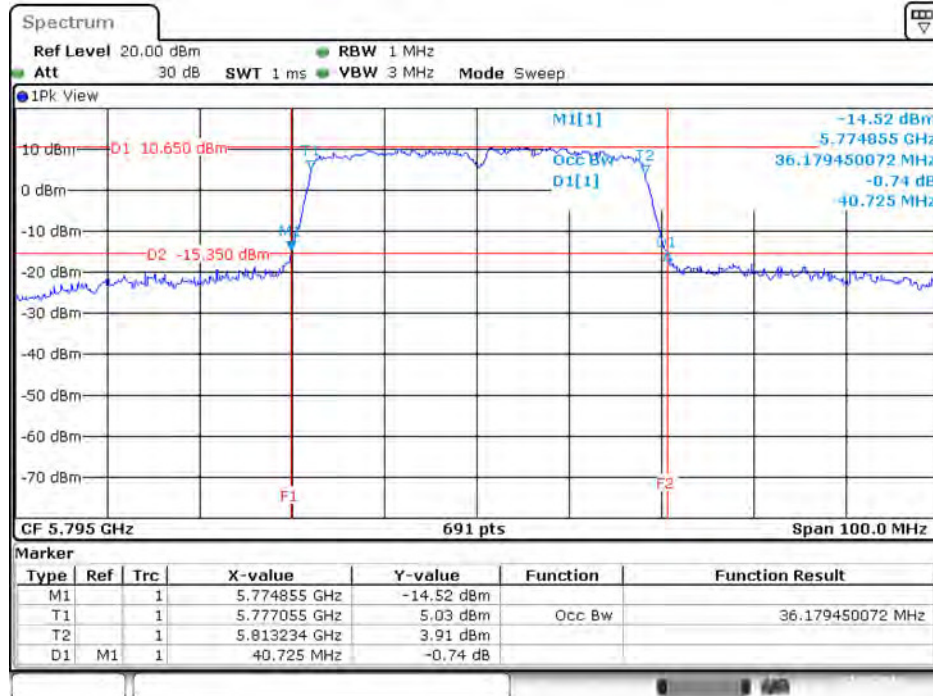
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5755 MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5755 MHz

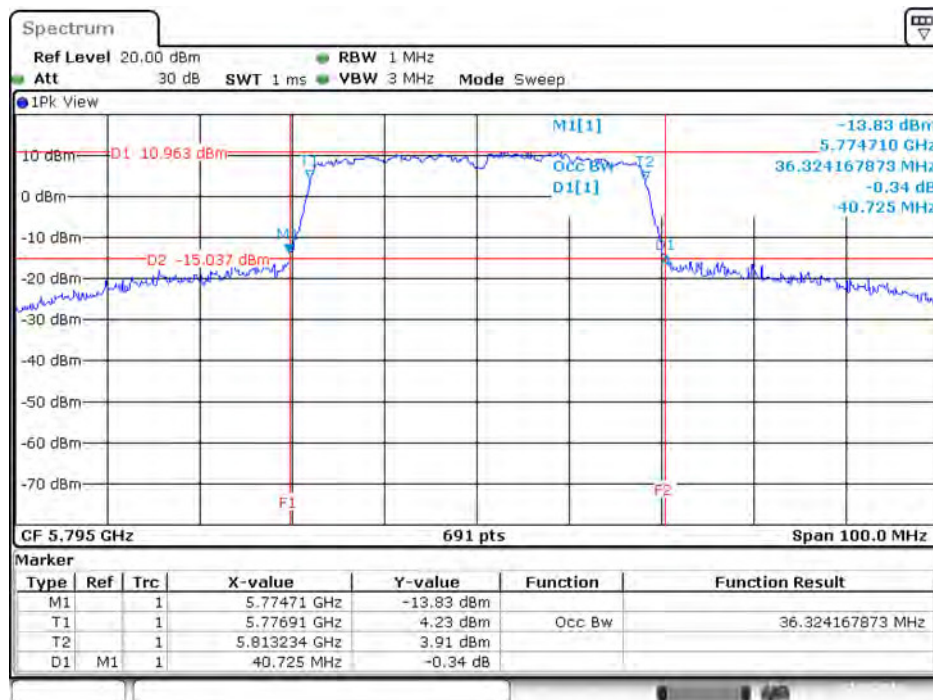


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5795 MHz



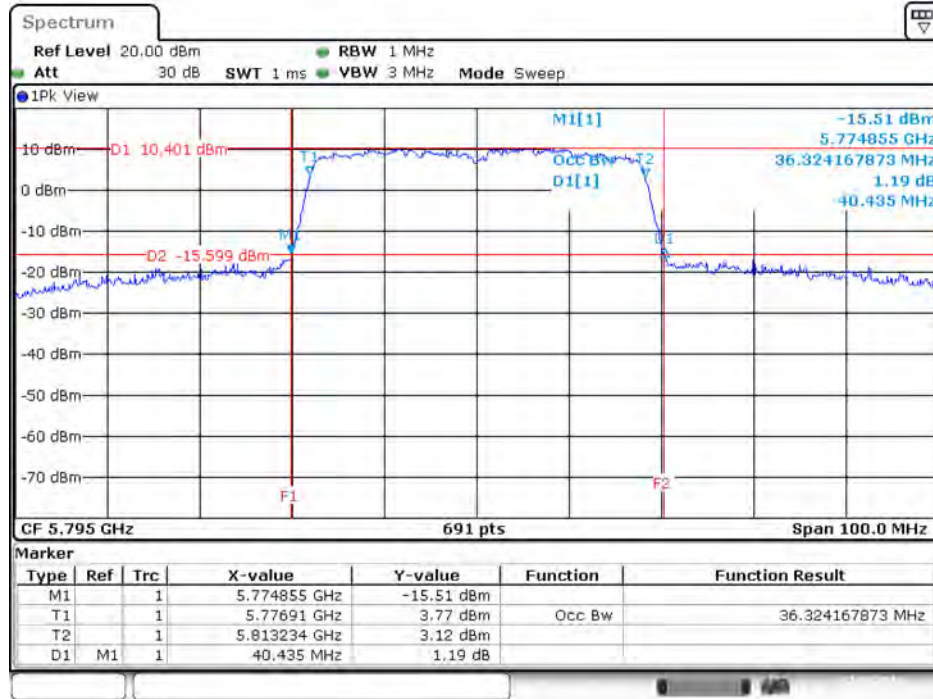
Date: 22.MAY.2016 15:04:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5795 MHz



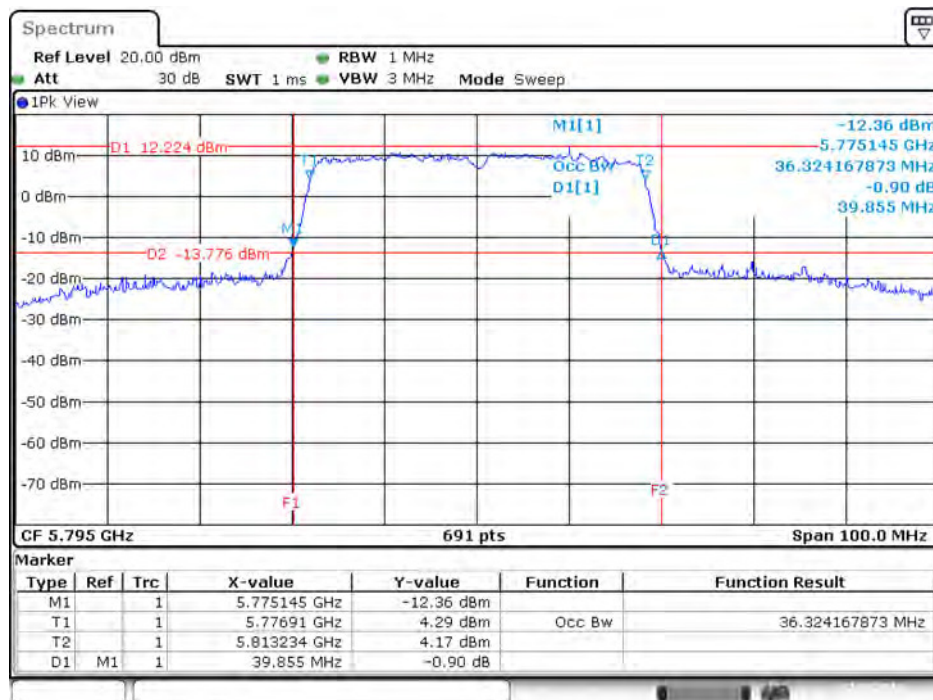
Date: 22.MAY.2016 15:04:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5795 MHz



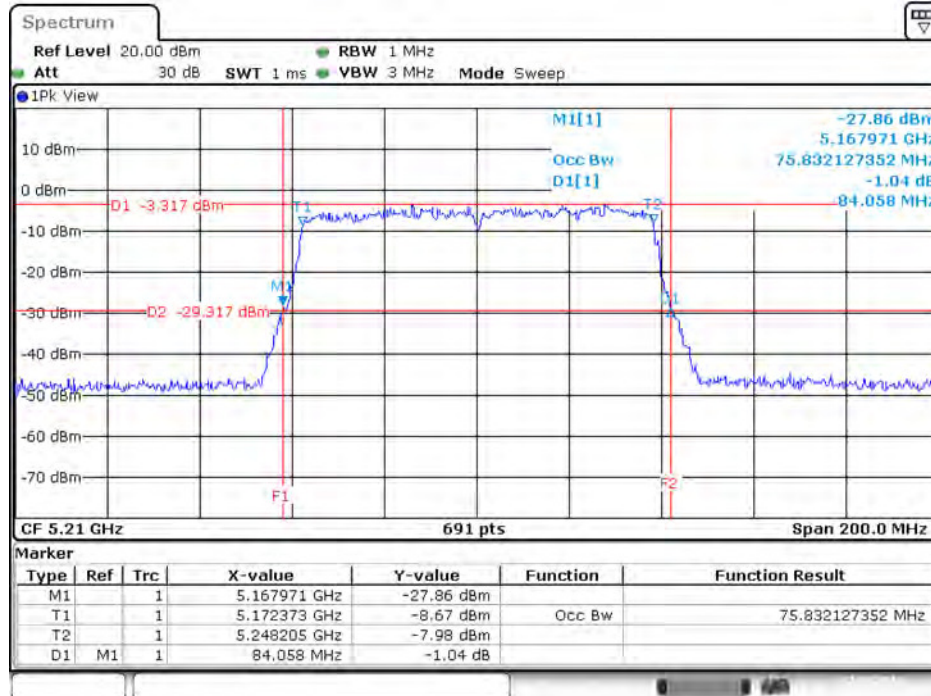
Date: 22.MAY.2016 15:04:16

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5795 MHz



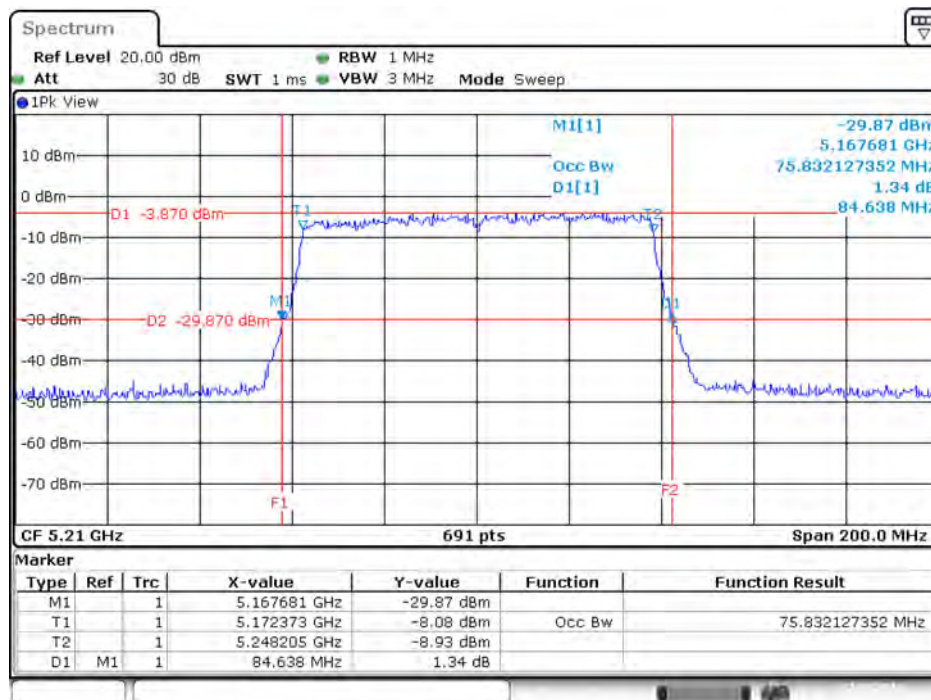
Date: 22.MAY.2016 15:04:03

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5210 MHz



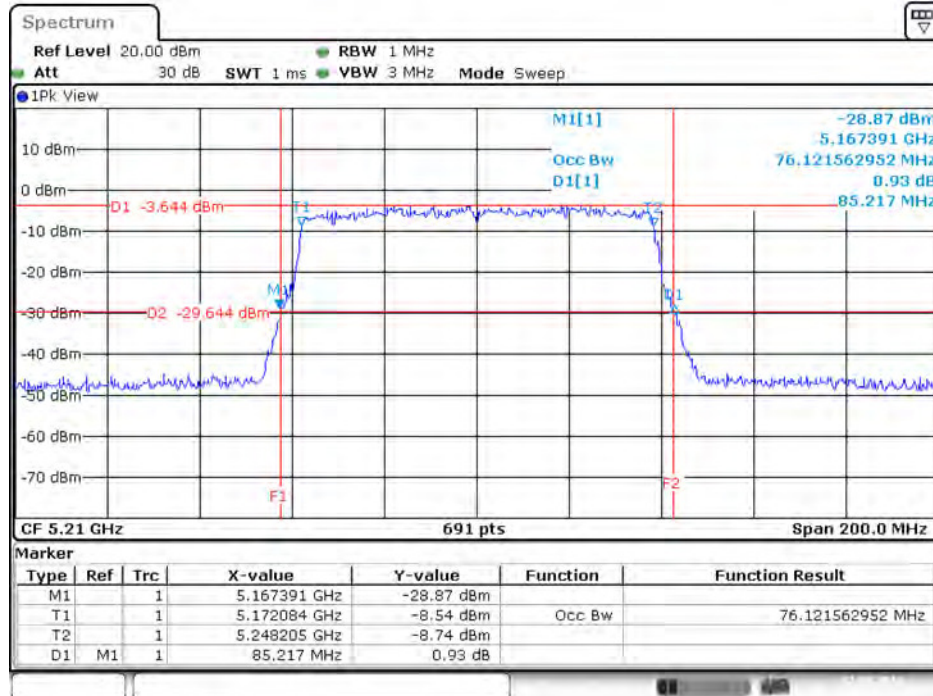
Date: 22.MAY.2016 15:07:24

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5210 MHz

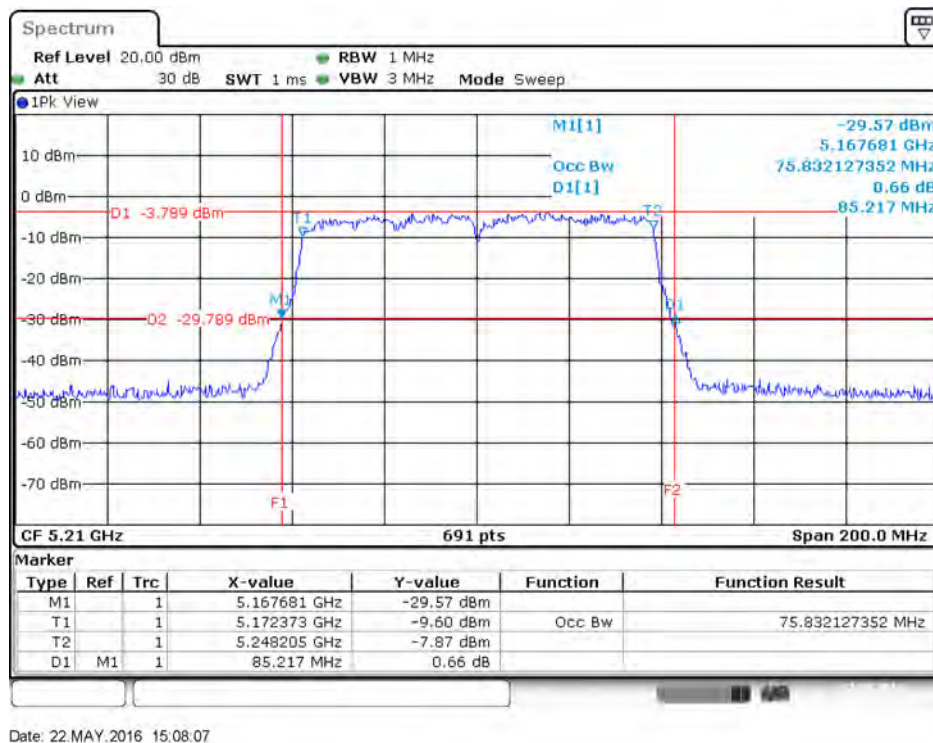


Date: 22.MAY.2016 15:07:39

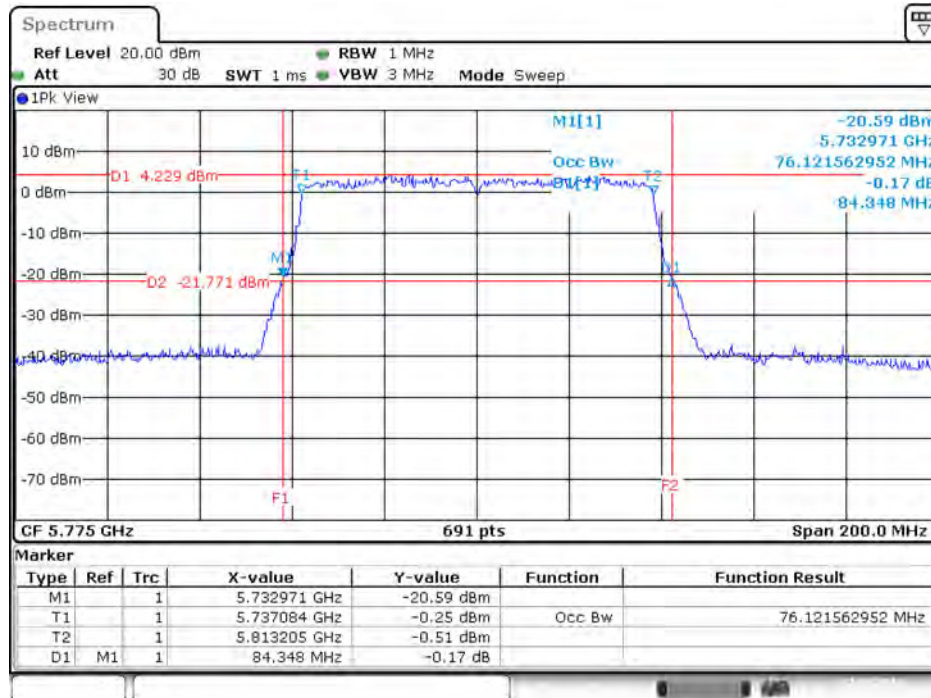
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5210 MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 4 / 5210 MHz

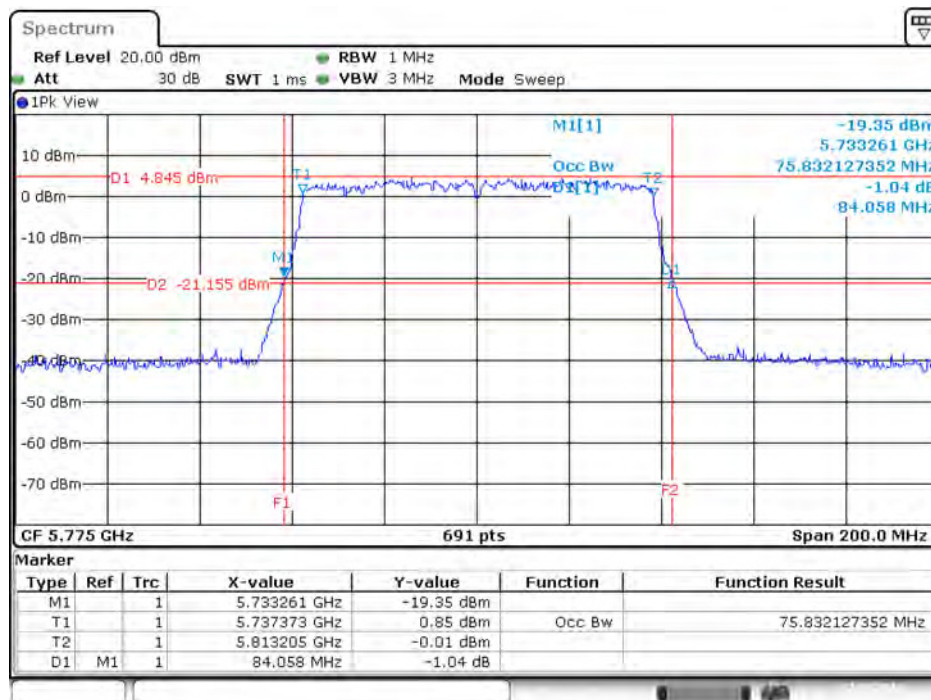


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5775 MHz



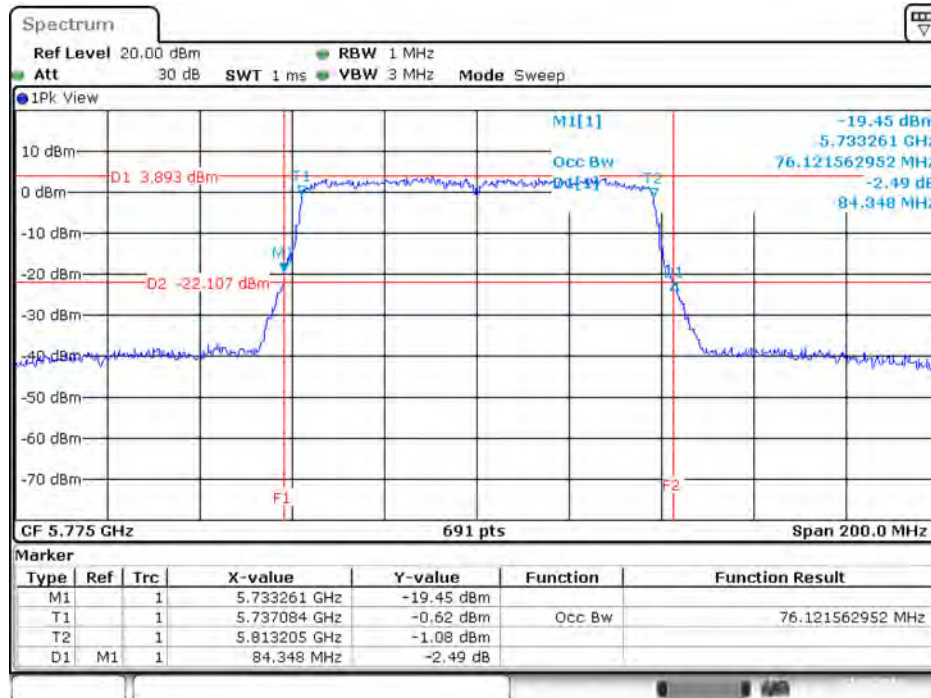
Date: 22.MAY.2016 15:09:28

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5775 MHz



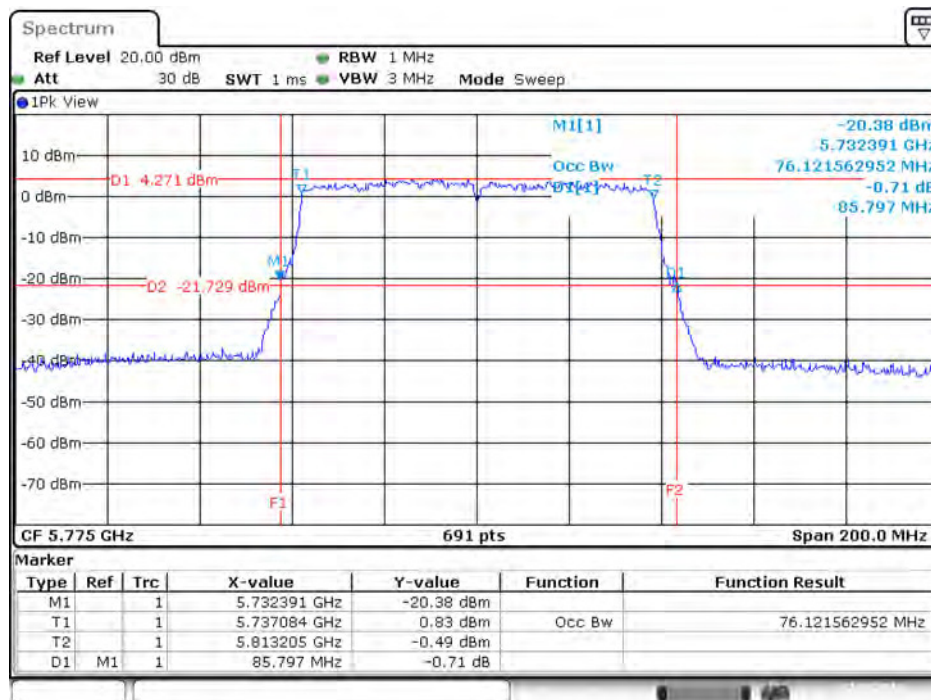
Date: 22.MAY.2016 15:09:16

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5775 MHz



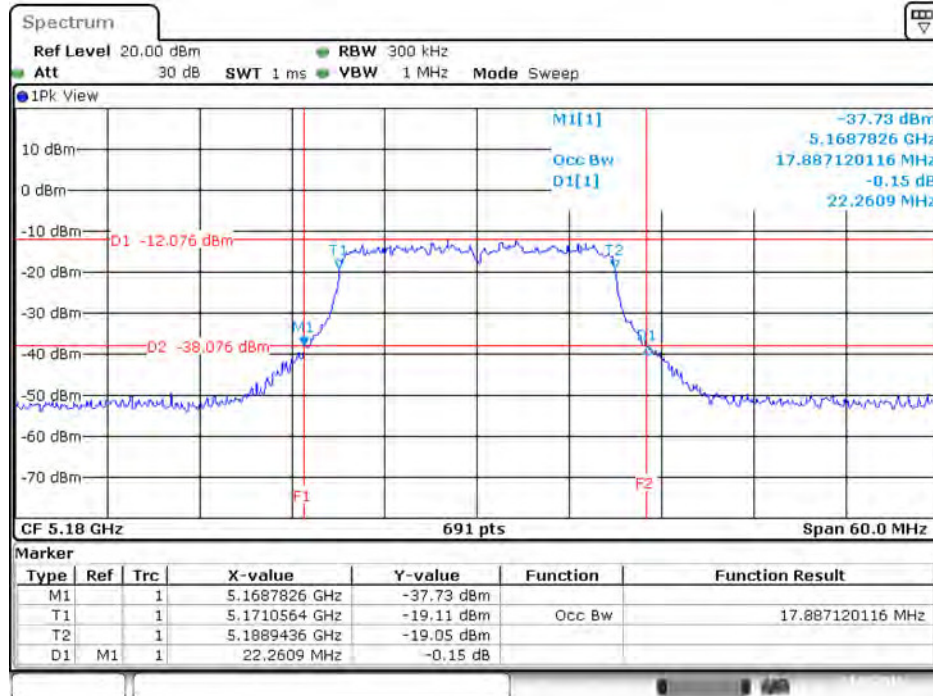
Date: 22.MAY.2016 15:09:03

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 4 / 5775 MHz



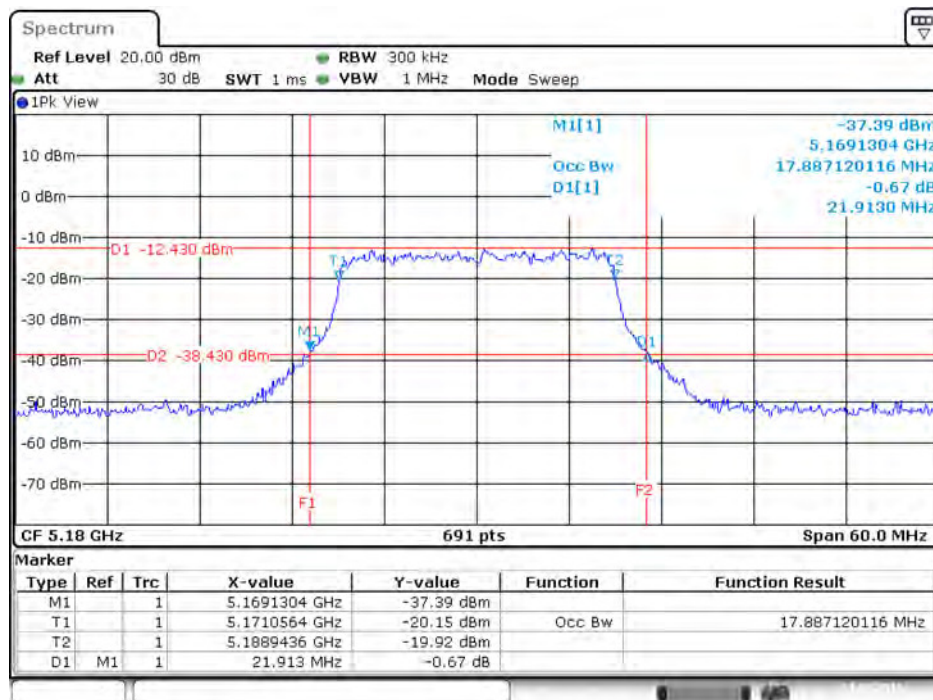
Date: 22.MAY.2016 15:08:51

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 1 / 5180 MHz



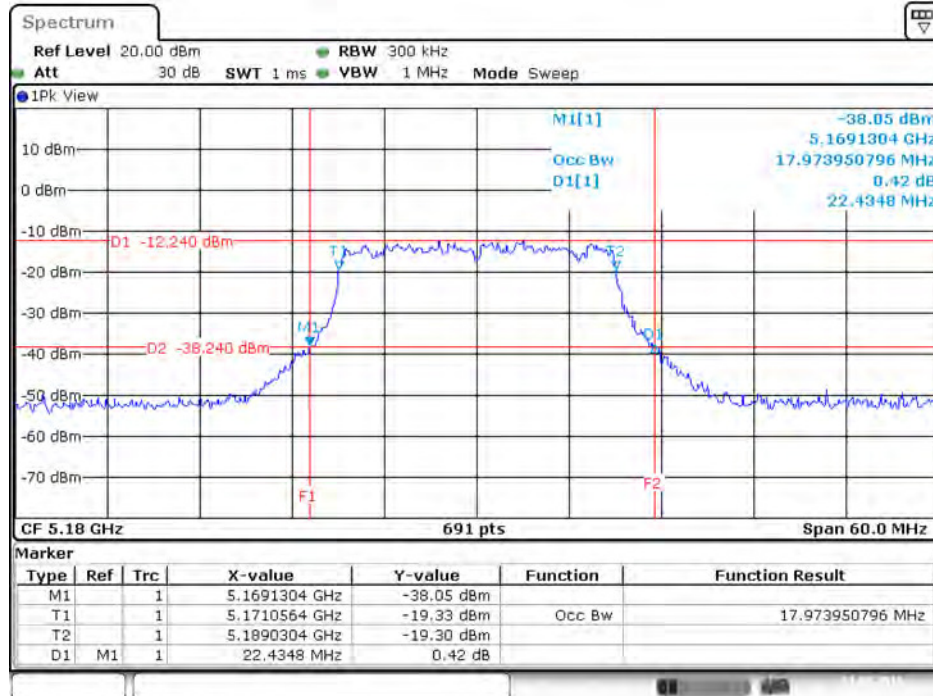
Date: 23.MAY.2016 15:35:15

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 2 / 5180 MHz



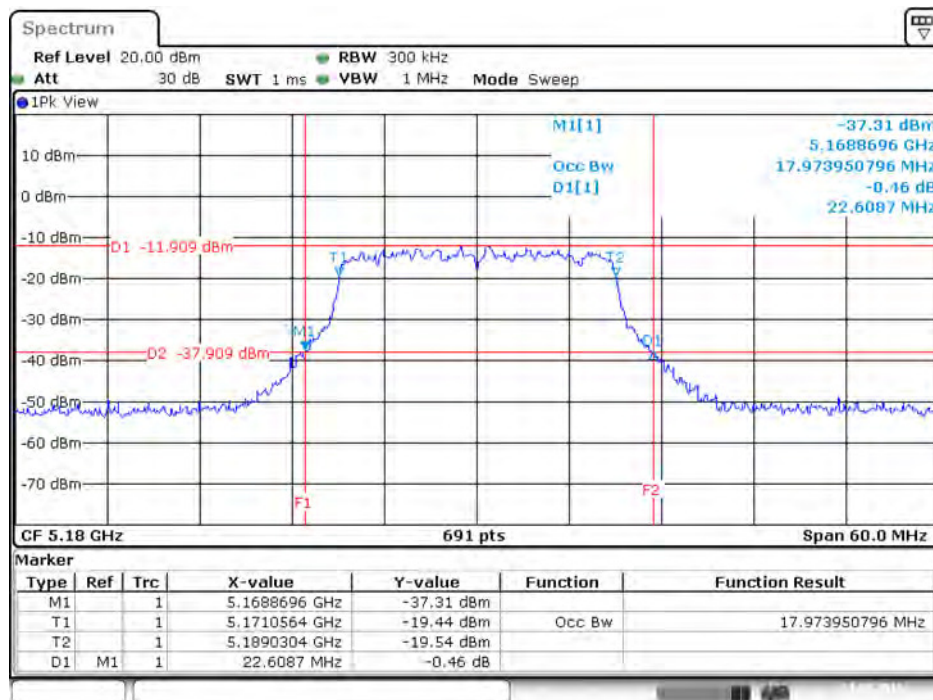
Date: 23.MAY.2016 15:36:08

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 3 / 5180 MHz



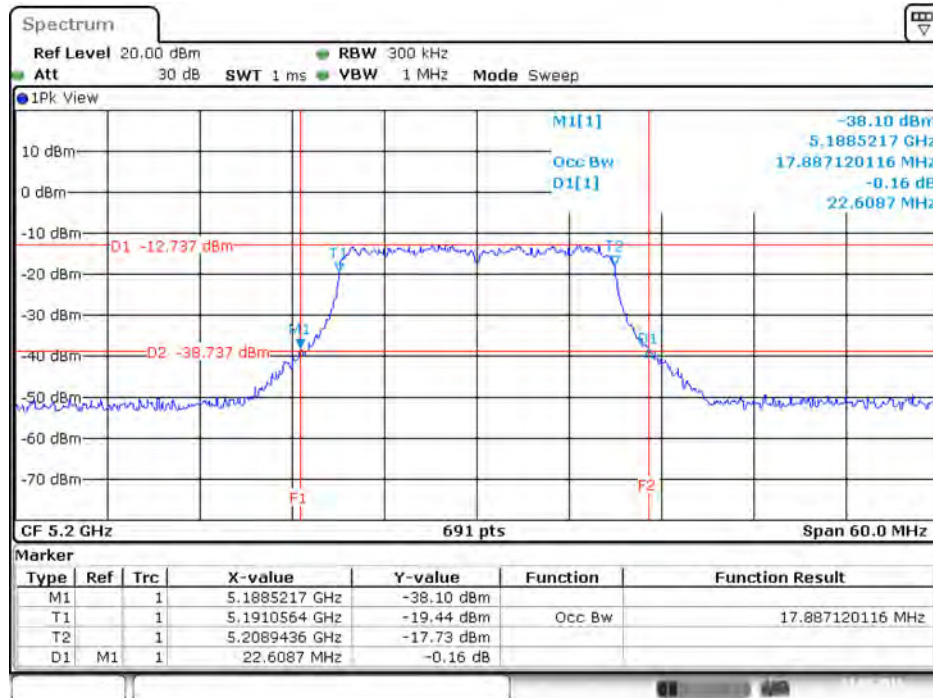
Date: 23.MAY.2016 15:36:50

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 4 / 5180 MHz



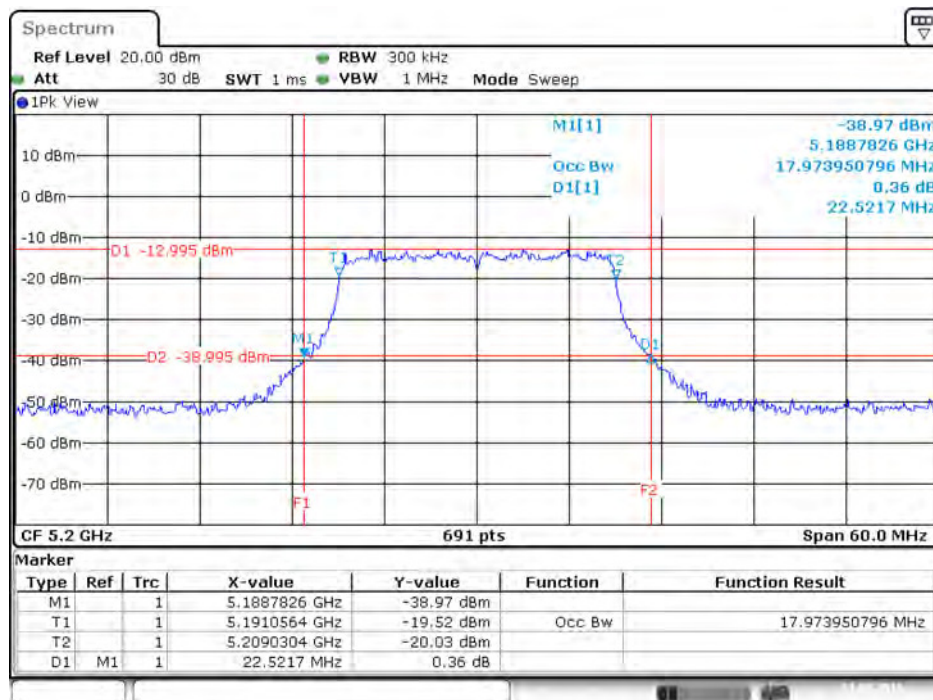
Date: 23.MAY.2016 15:37:16

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 1 / 5200 MHz



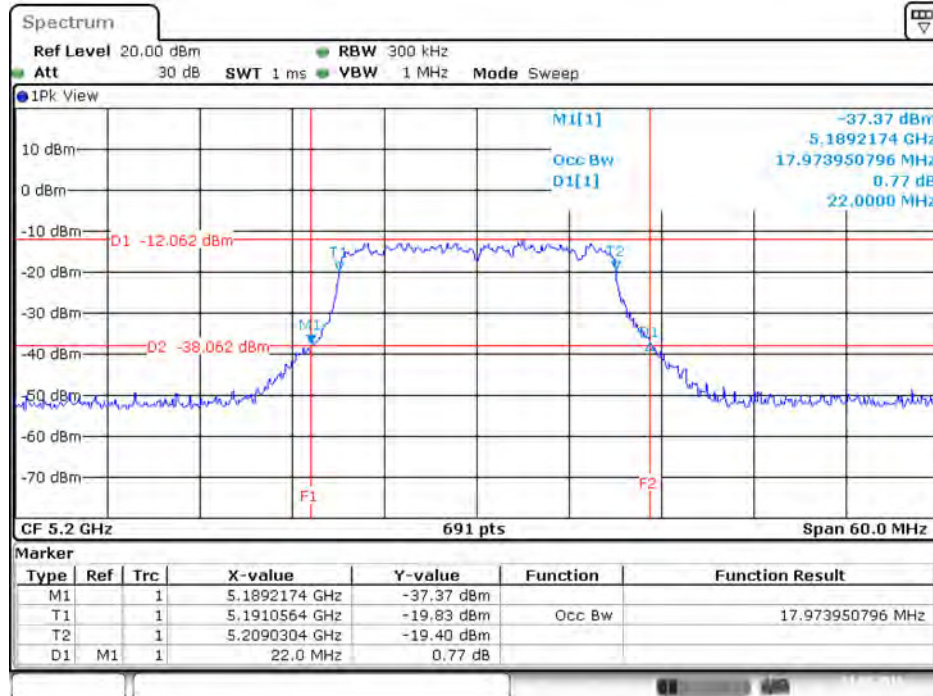
Date: 23.MAY.2016 15:38:08

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 2 / 5200 MHz



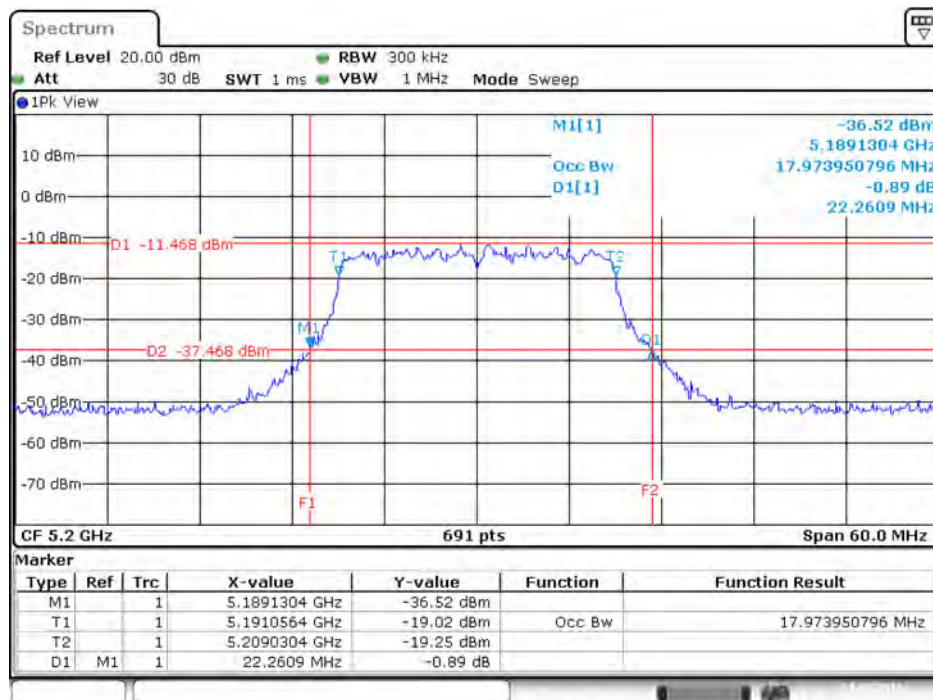
Date: 23.MAY.2016 15:38:34

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 3 / 5200 MHz



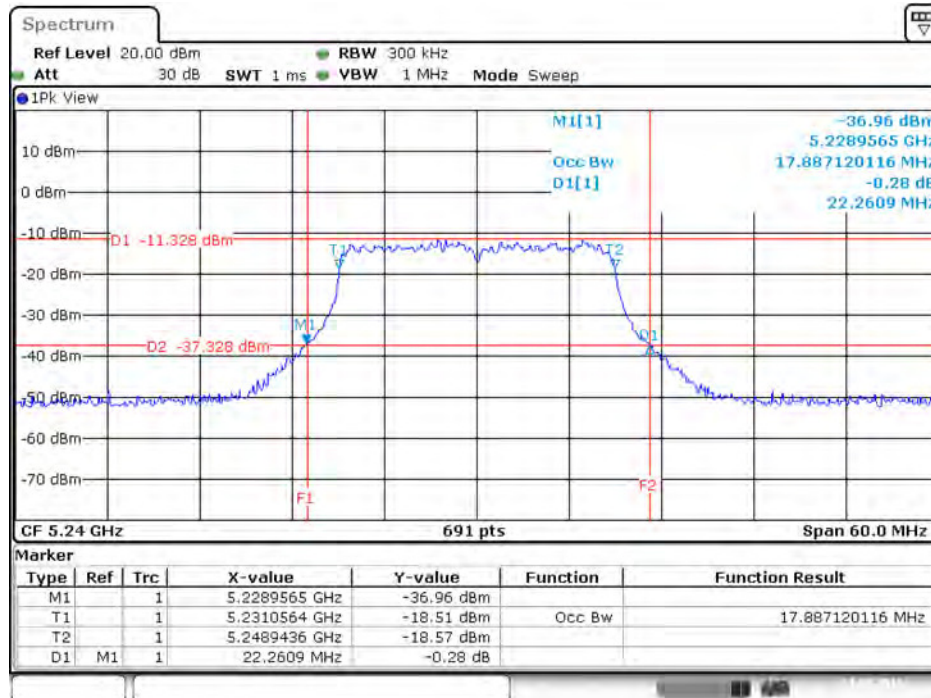
Date: 23.MAY.2016 15:38:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 4 / 5200 MHz



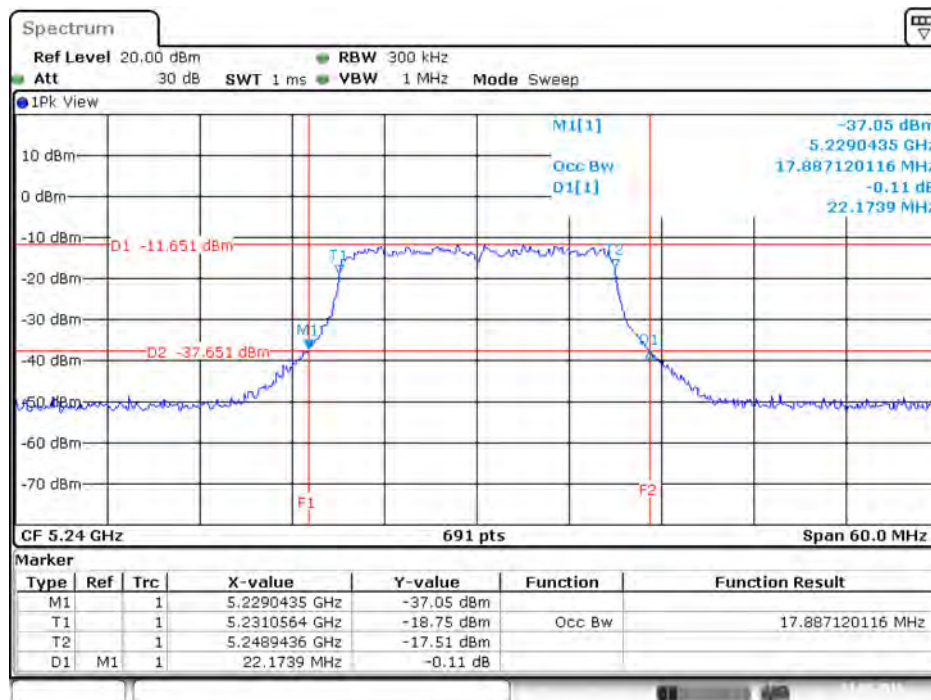
Date: 23.MAY.2016 15:39:26

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 1 / 5240 MHz



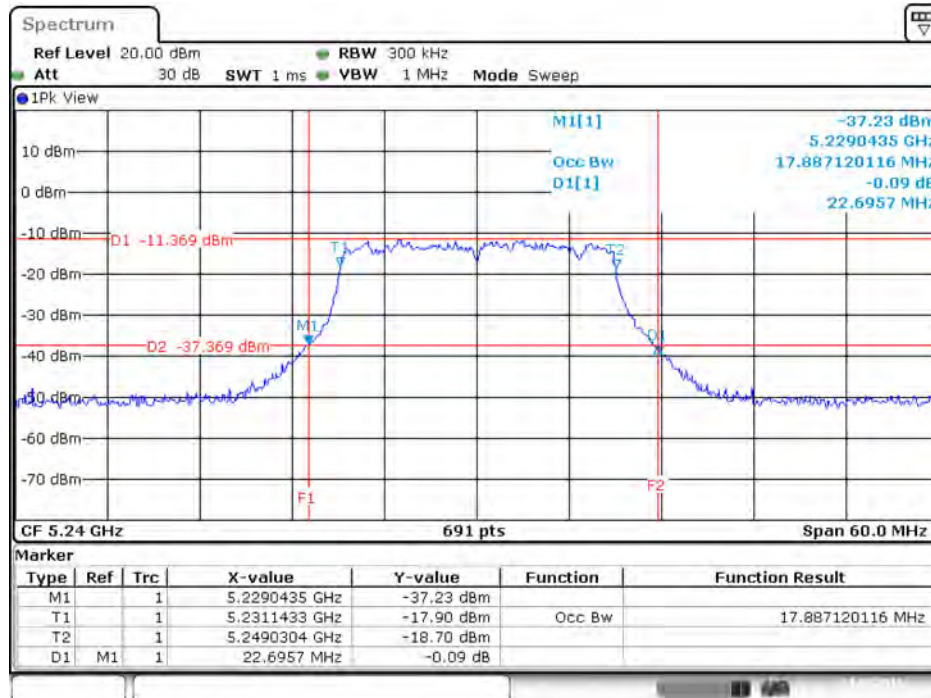
Date: 23.MAY.2016 15:40:17

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 2 / 5240 MHz



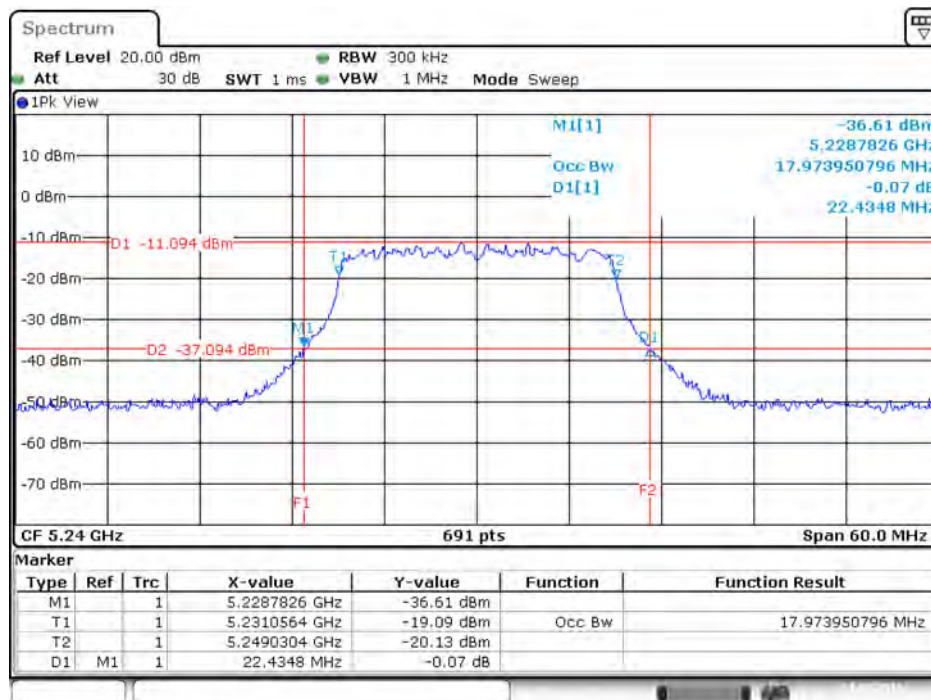
Date: 23.MAY.2016 15:40:39

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 3 / 5240 MHz



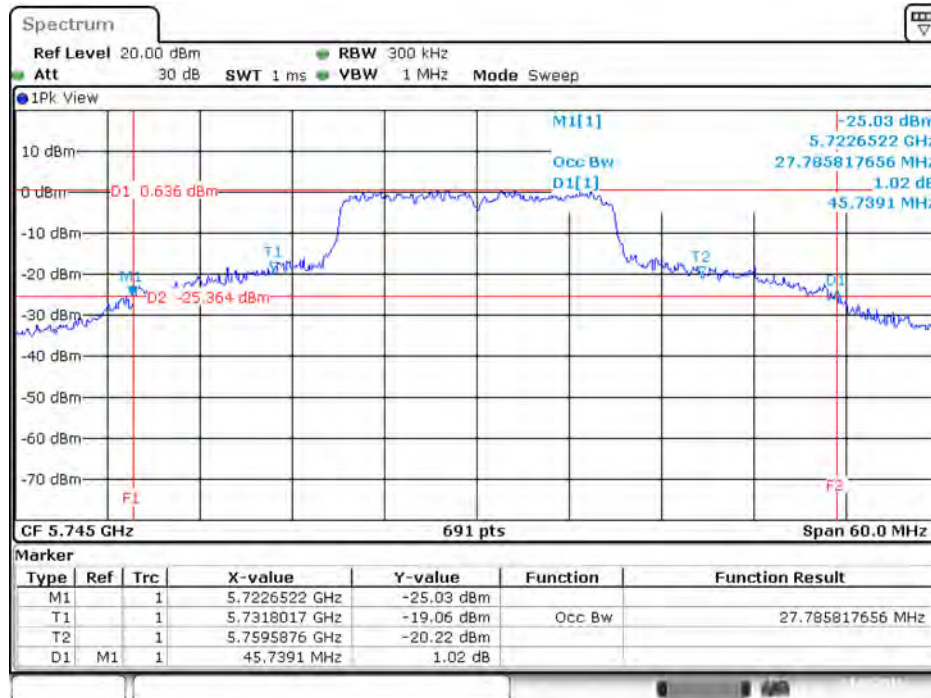
Date: 23.MAY.2016 15:40:58

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 4 / 5240 MHz



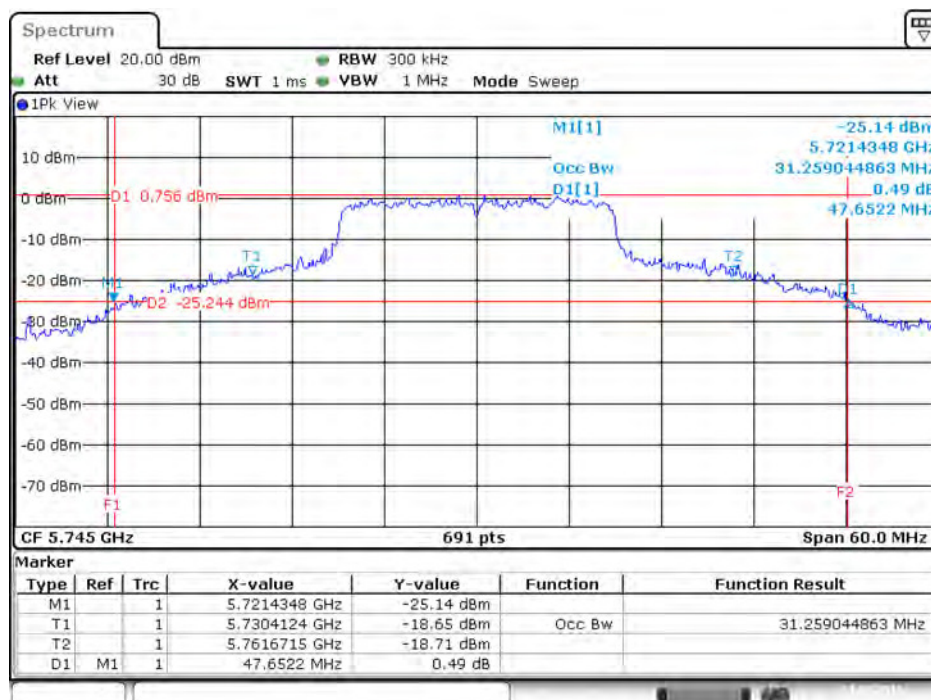
Date: 23.MAY.2016 15:41:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 1 / 5745 MHz



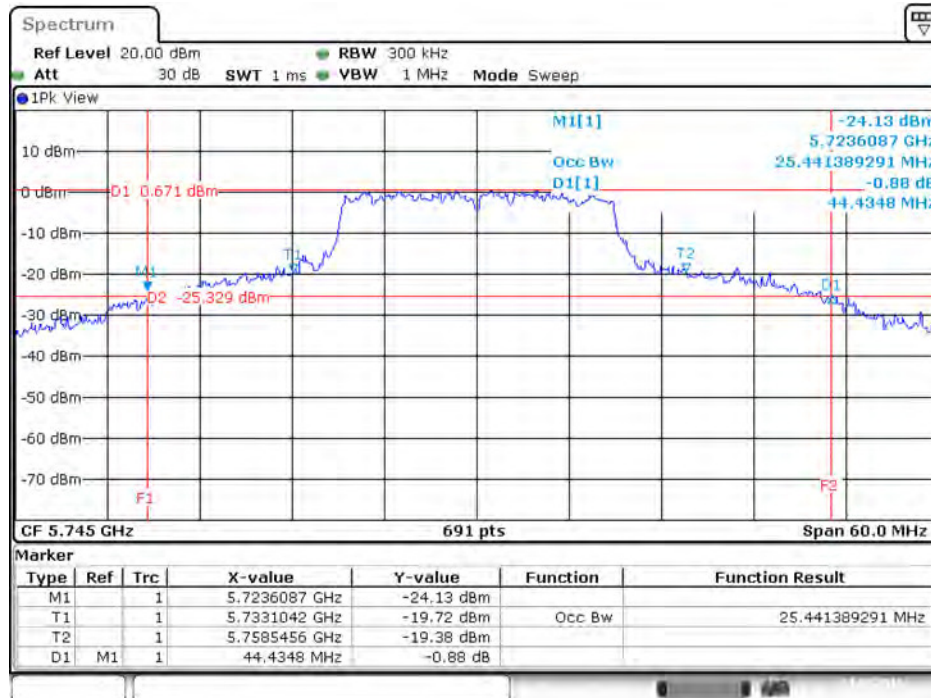
Date: 23.MAY.2016 15:42:53

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 2 / 5745 MHz



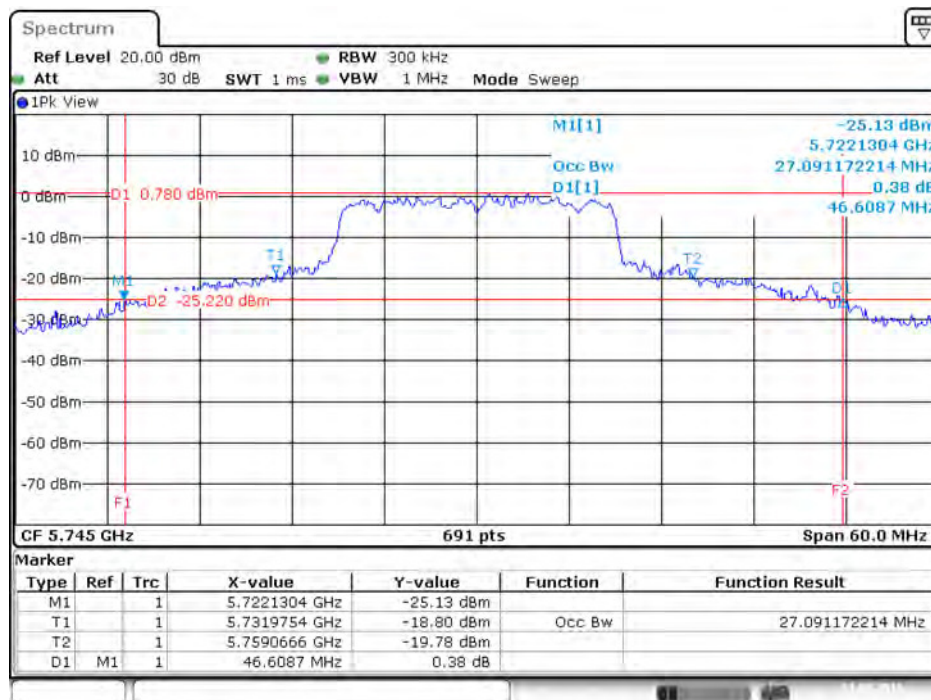
Date: 23.MAY.2016 15:43:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 3 / 5745 MHz



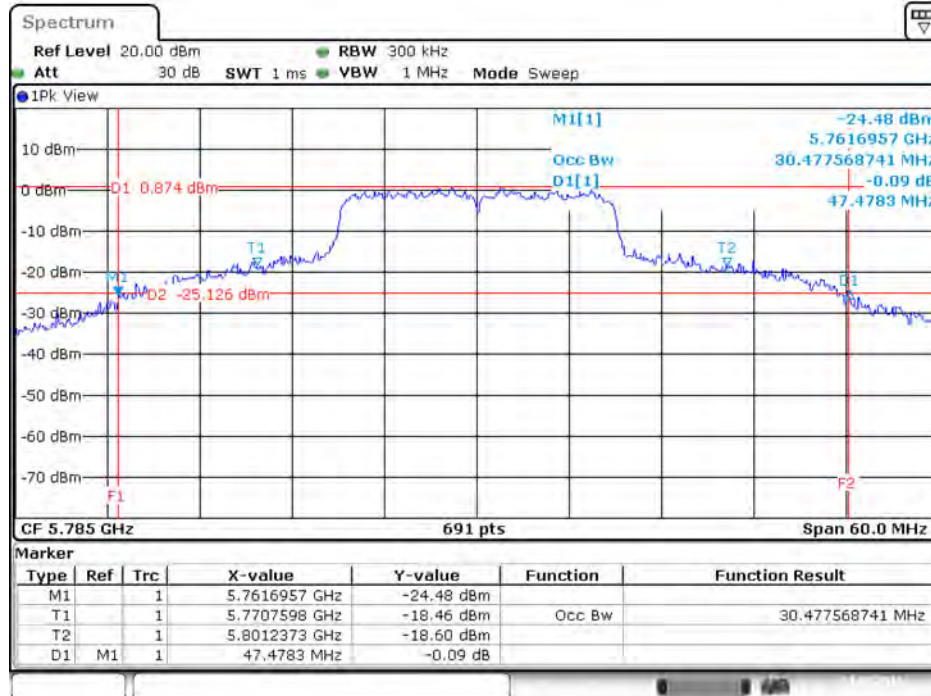
Date: 23.MAY.2016 15:43:42

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 4 / 5745 MHz



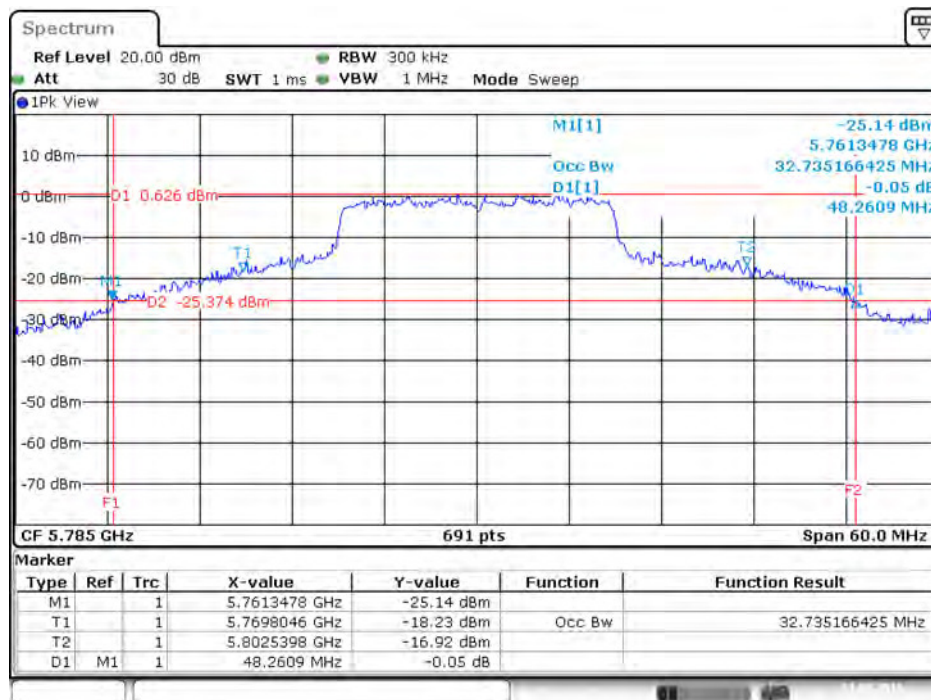
Date: 23.MAY.2016 15:44:06

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 1 / 5785 MHz



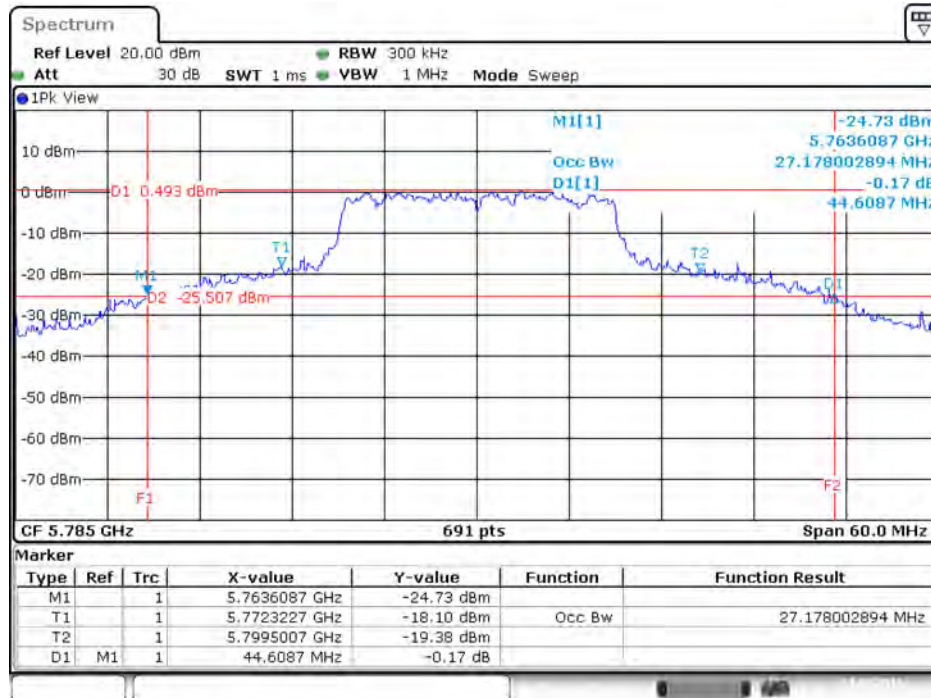
Date: 23.MAY.2016 15:44:47

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 2 / 5785 MHz



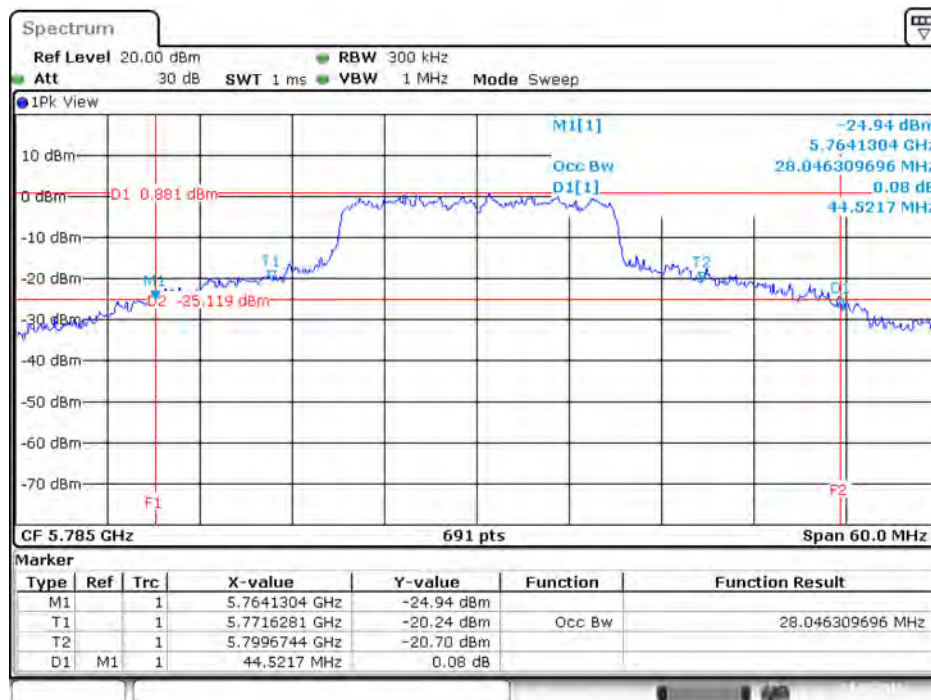
Date: 23.MAY.2016 15:45:07

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 3 / 5785 MHz



Date: 23.MAY.2016 15:45:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 4 / 5785 MHz



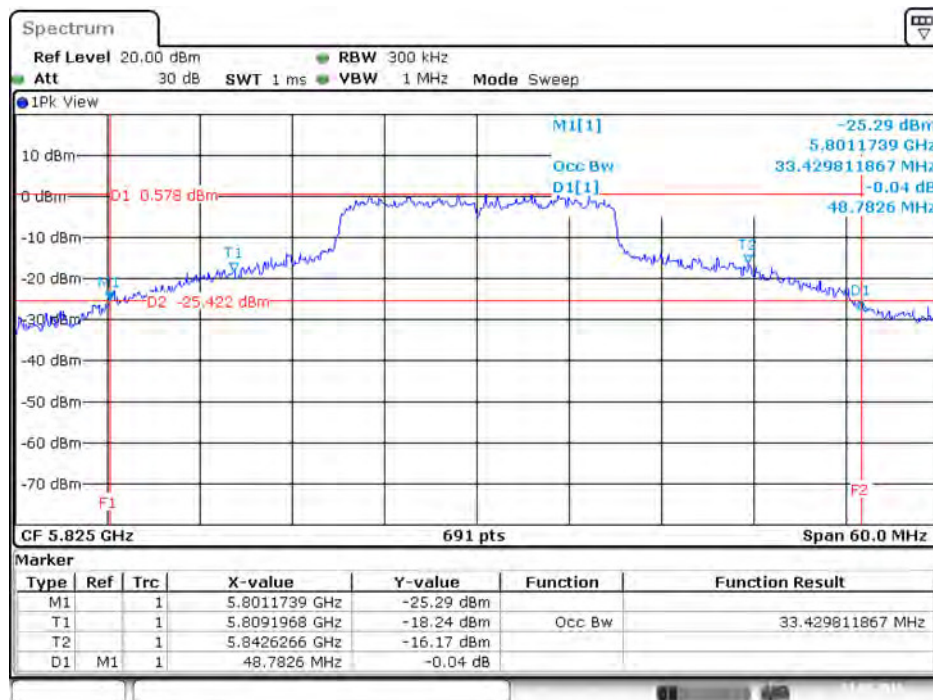
Date: 23.MAY.2016 15:45:49

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 1 / 5825 MHz



Date: 23.MAY.2016 15:46:36

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 2 / 5825 MHz



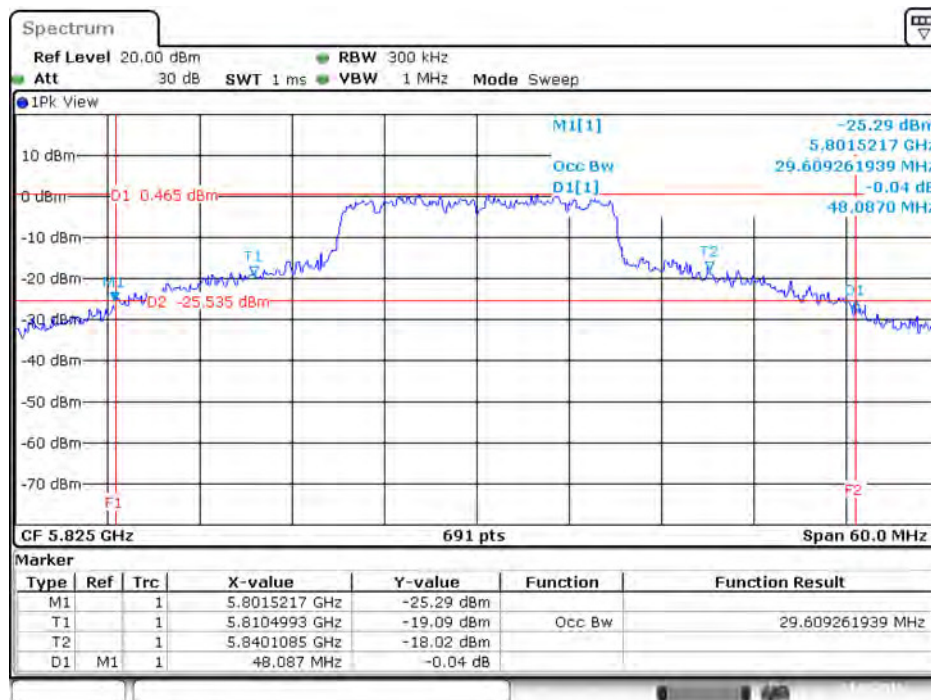
Date: 23.MAY.2016 15:47:16

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 3 / 5825 MHz



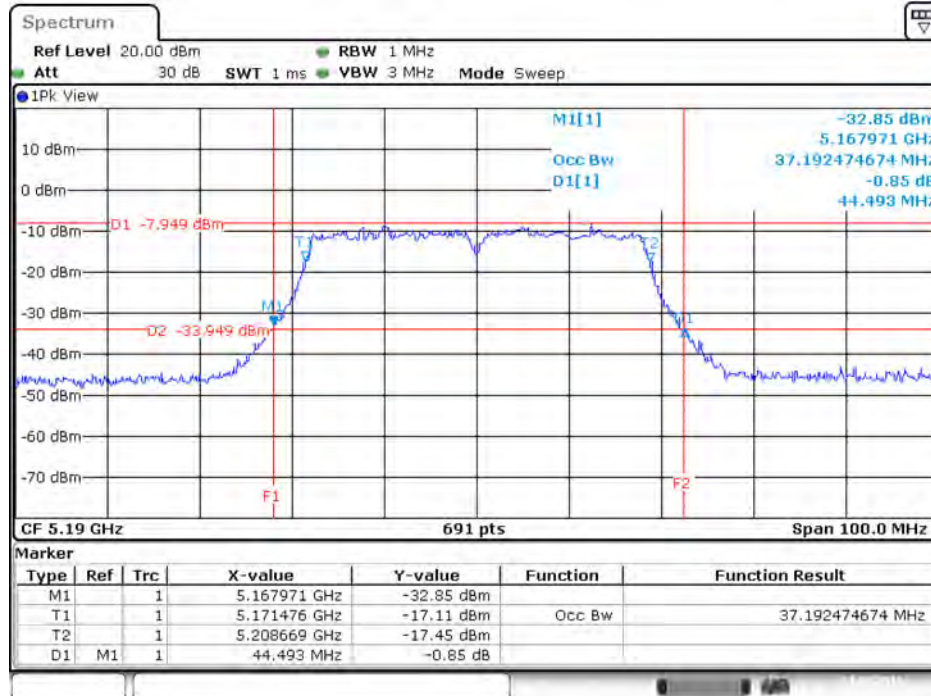
Date: 23.MAY.2016 15:47:46

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 4 / 5825 MHz



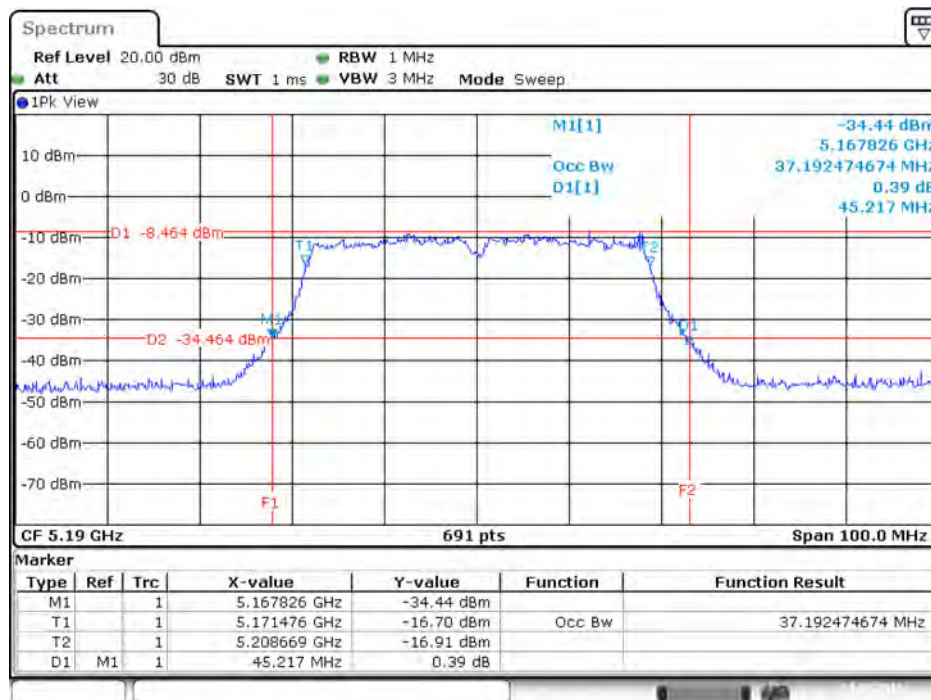
Date: 23.MAY.2016 15:48:06

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 1 / 5190 MHz



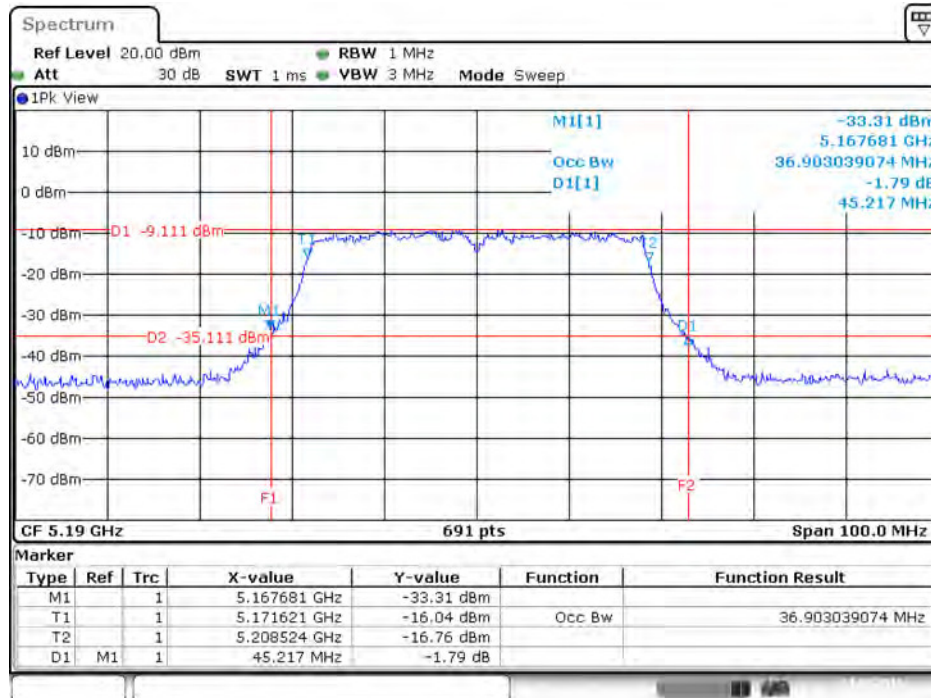
Date: 23.MAY.2016 15:57:31

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 2 / 5190 MHz



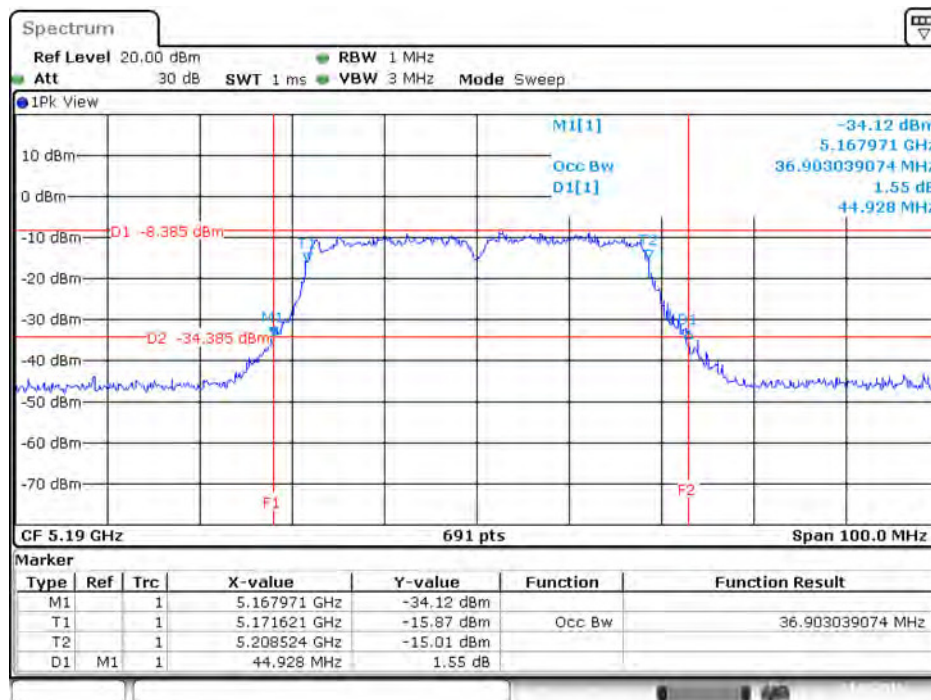
Date: 23.MAY.2016 15:59:14

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 3 / 5190 MHz



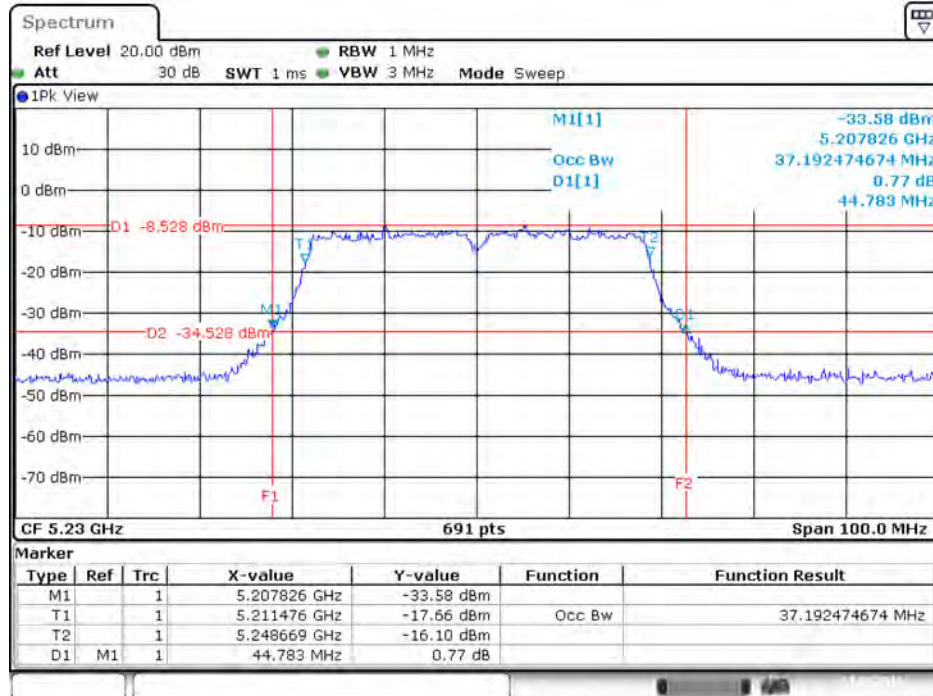
Date: 23.MAY.2016 15:59:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 4 / 5190 MHz

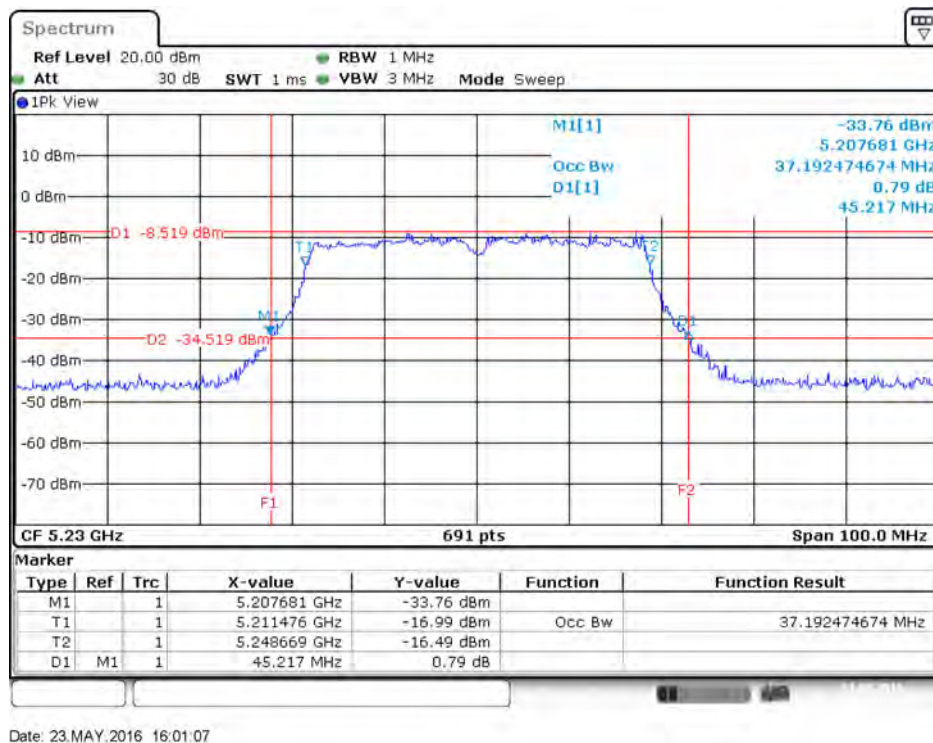


Date: 23.MAY.2016 16:00:04

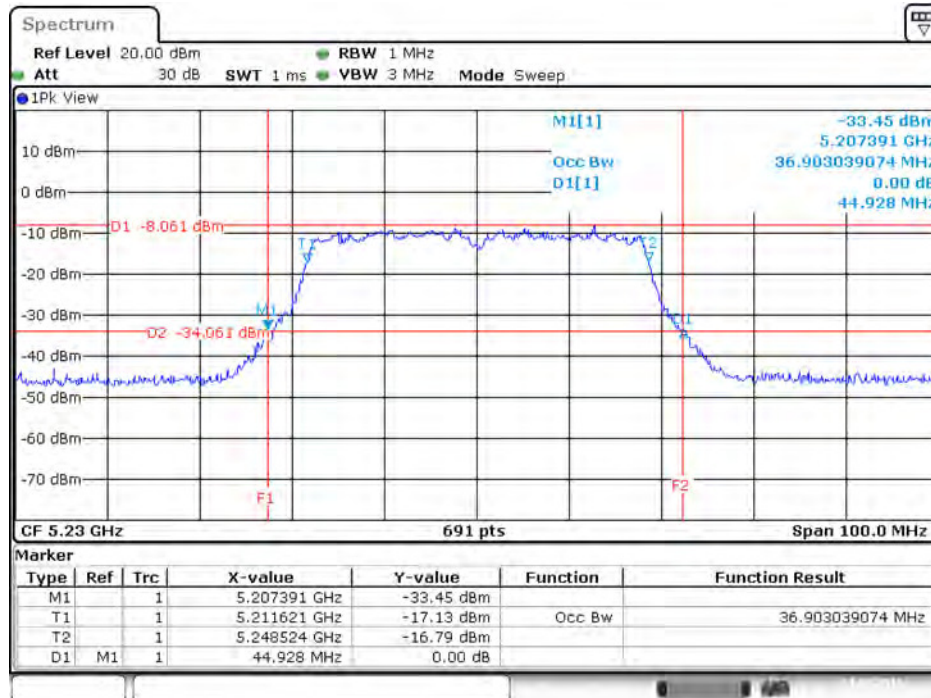
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 1 / 5230 MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 2 / 5230 MHz

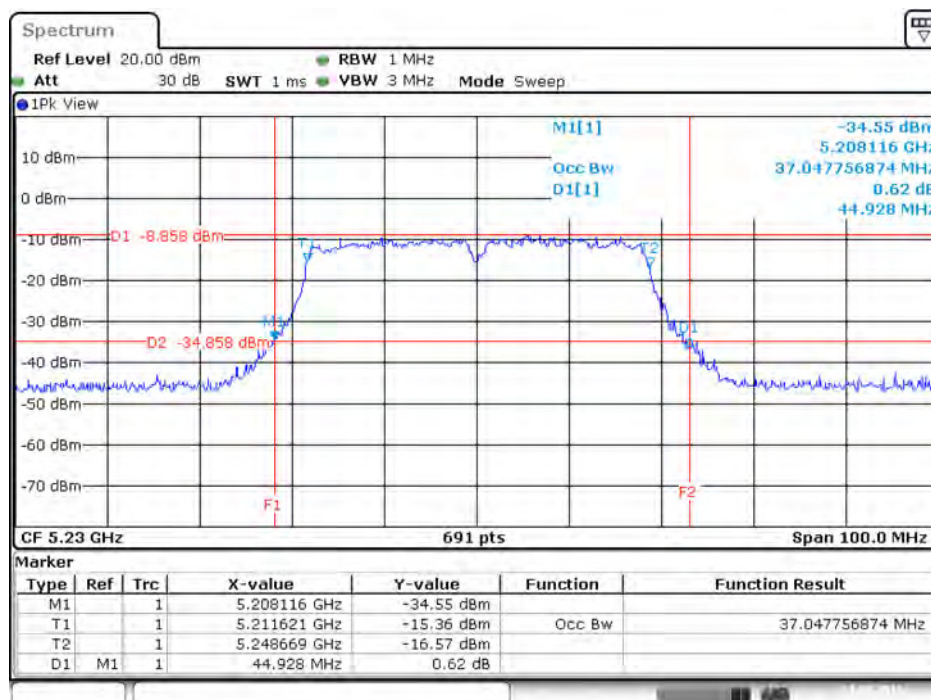


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 3 / 5230 MHz



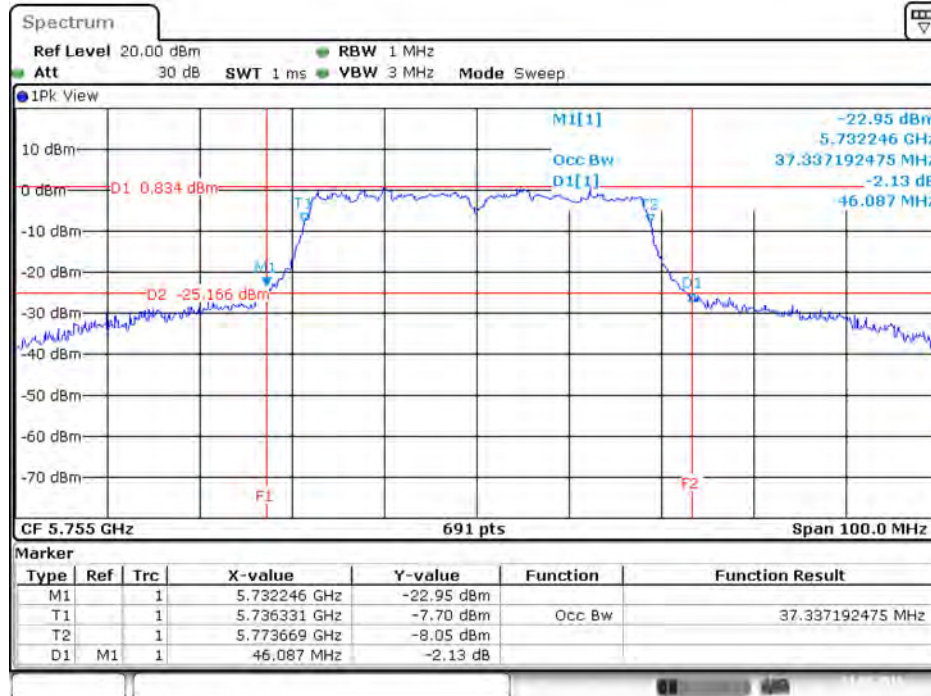
Date: 23.MAY.2016 16:01:37

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 4 / 5230 MHz



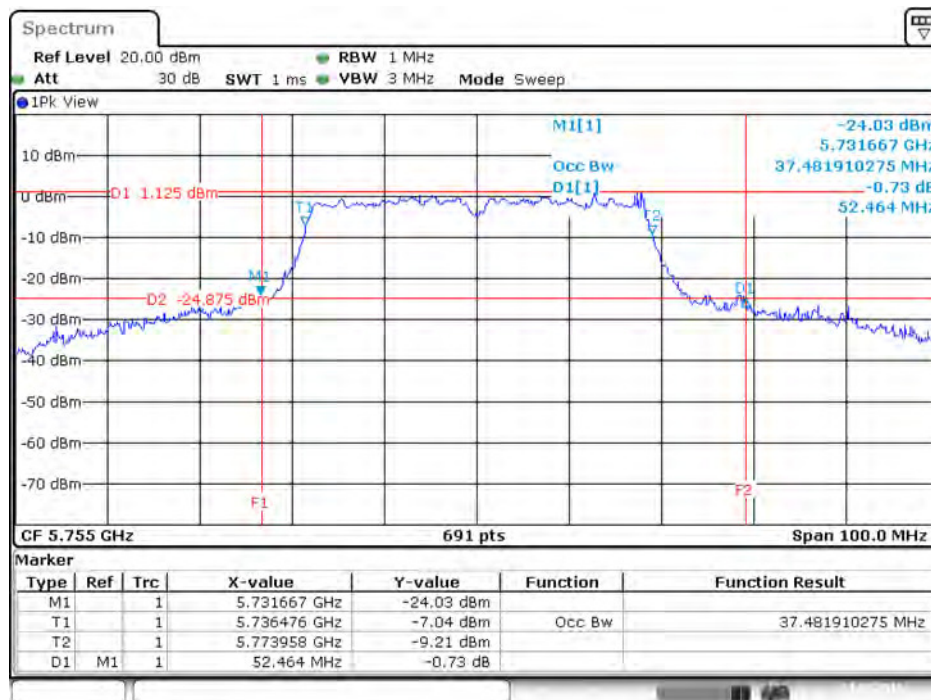
Date: 23.MAY.2016 16:02:00

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 1 / 5755 MHz



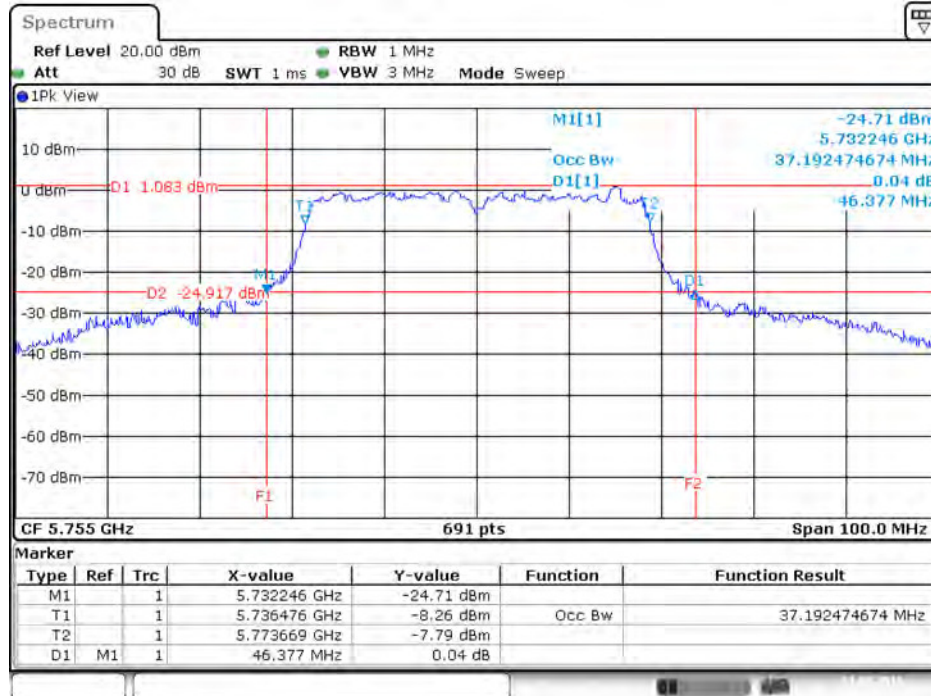
Date: 23.MAY.2016 16:02:51

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 2 / 5755 MHz



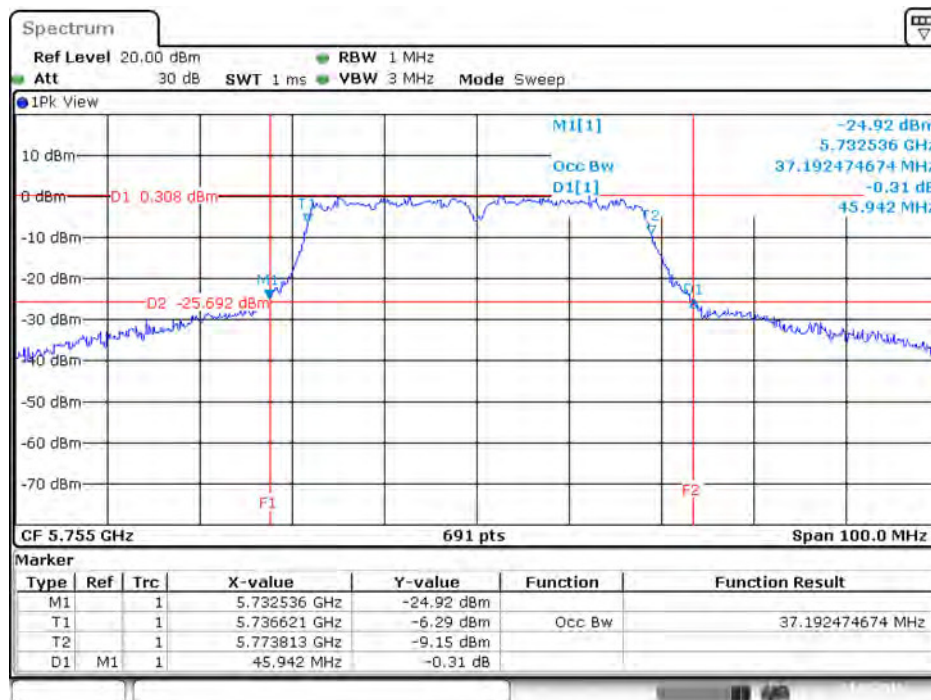
Date: 23.MAY.2016 16:03:10

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 3 / 5755 MHz



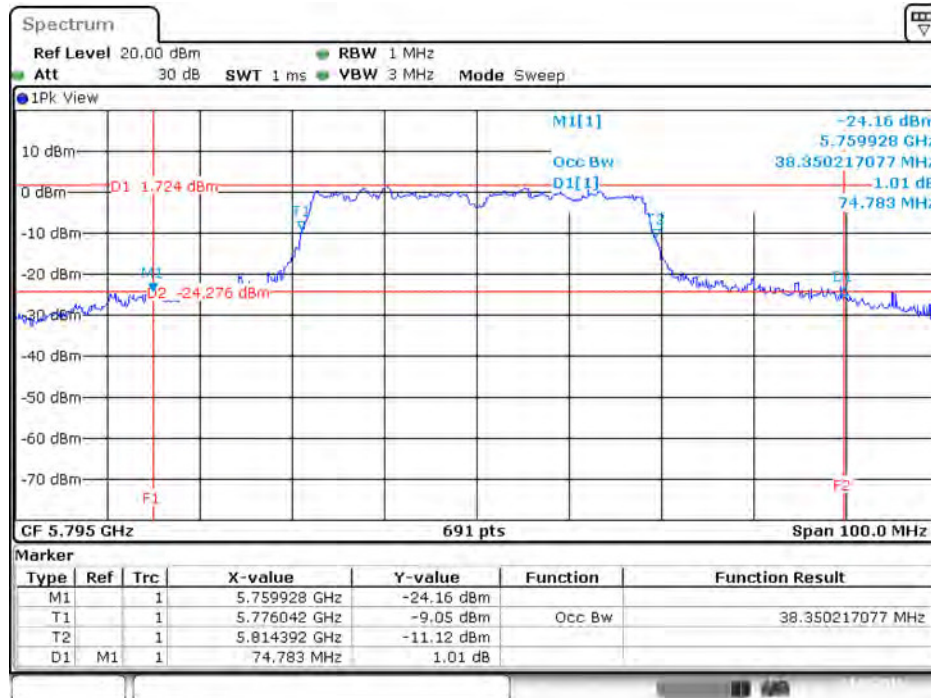
Date: 23.MAY.2016 16:03:29

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 4 / 5755 MHz



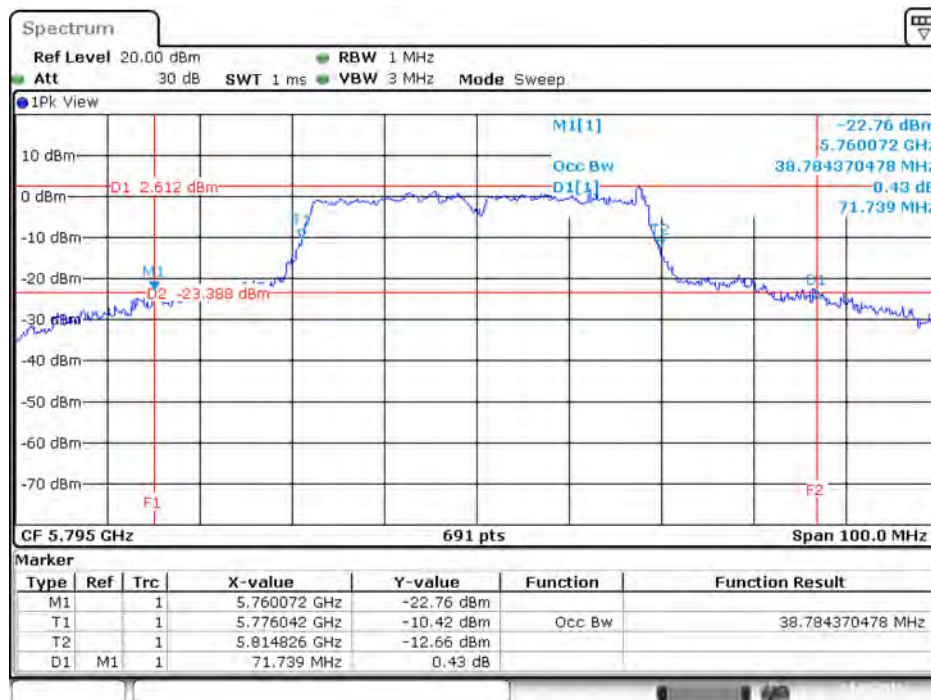
Date: 23.MAY.2016 16:03:48

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 1 / 5795 MHz



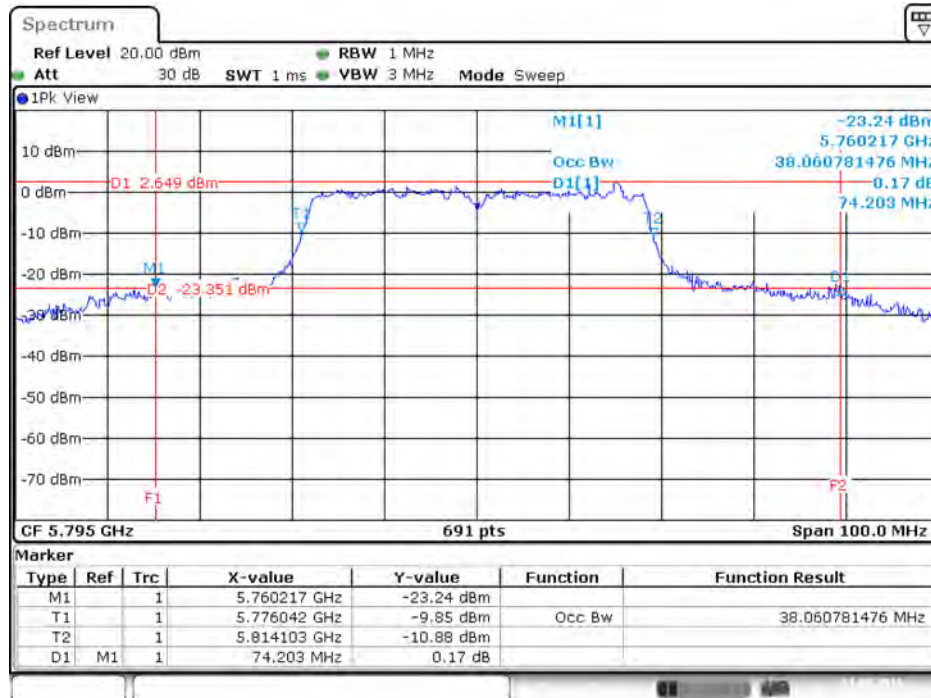
Date: 23.MAY.2016 16:06:51

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 2 / 5795 MHz



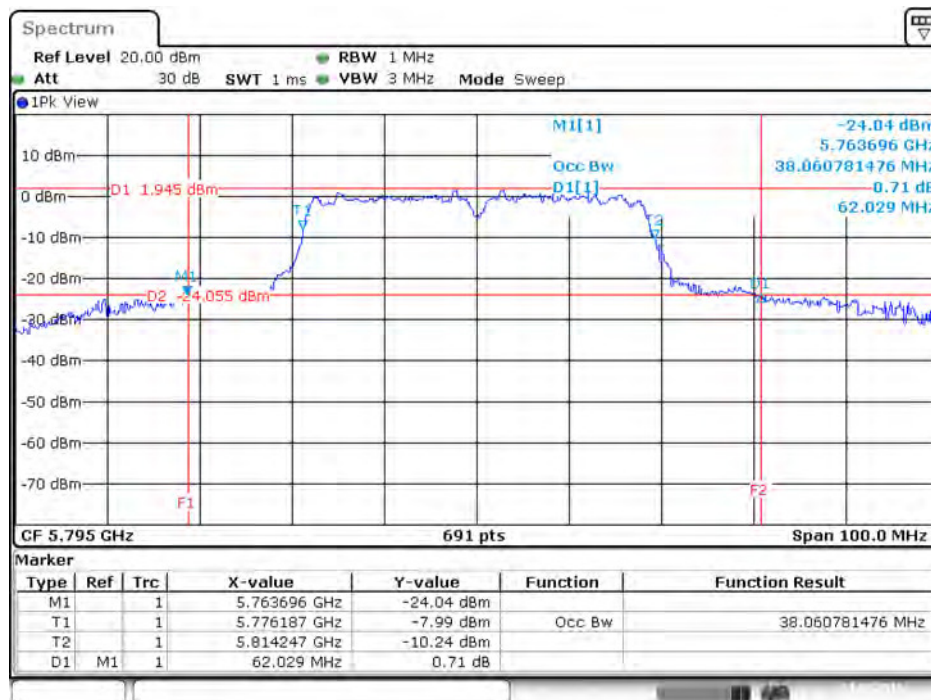
Date: 23.MAY.2016 16:06:34

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 3 / 5795 MHz



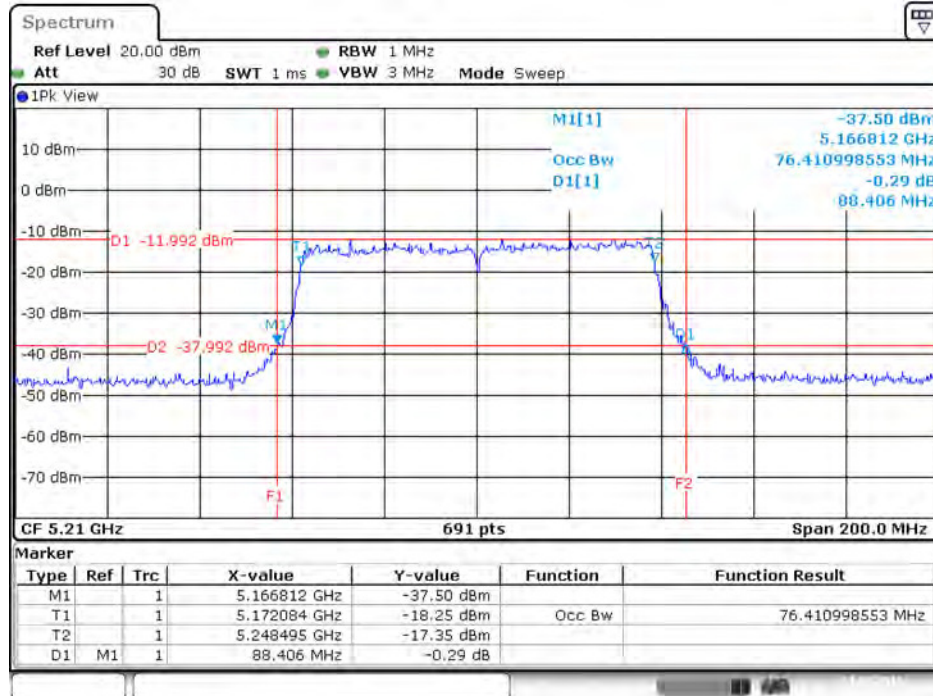
Date: 23.MAY.2016 16:05:52

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 4 / 5795 MHz



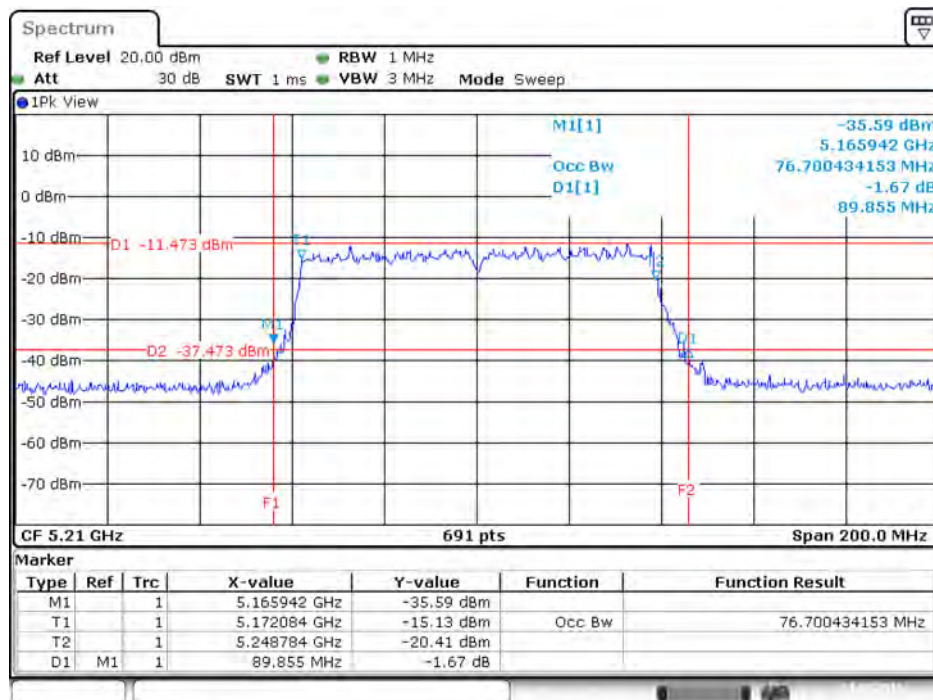
Date: 23.MAY.2016 16:05:10

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 1 / 5210 MHz



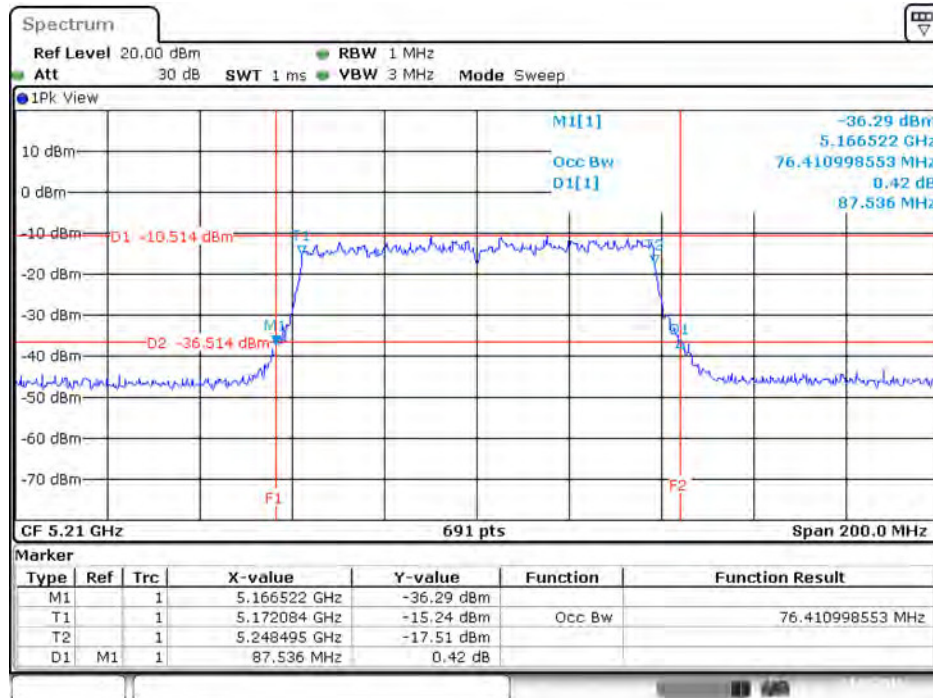
Date: 23.MAY.2016 16:08:46

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 2 / 5210 MHz



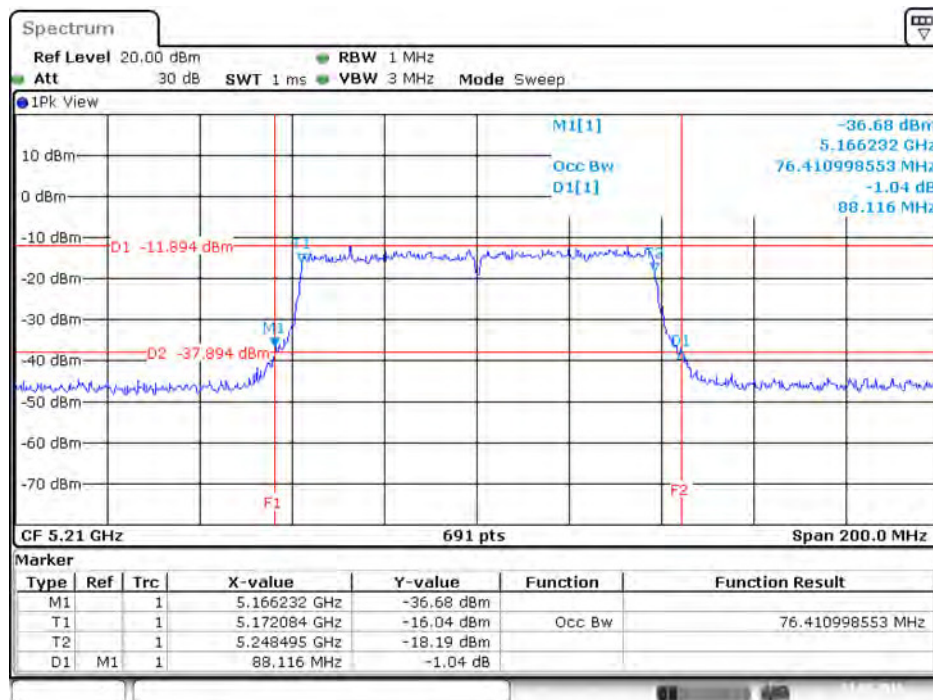
Date: 23.MAY.2016 16:09:22

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 3 / 5210 MHz



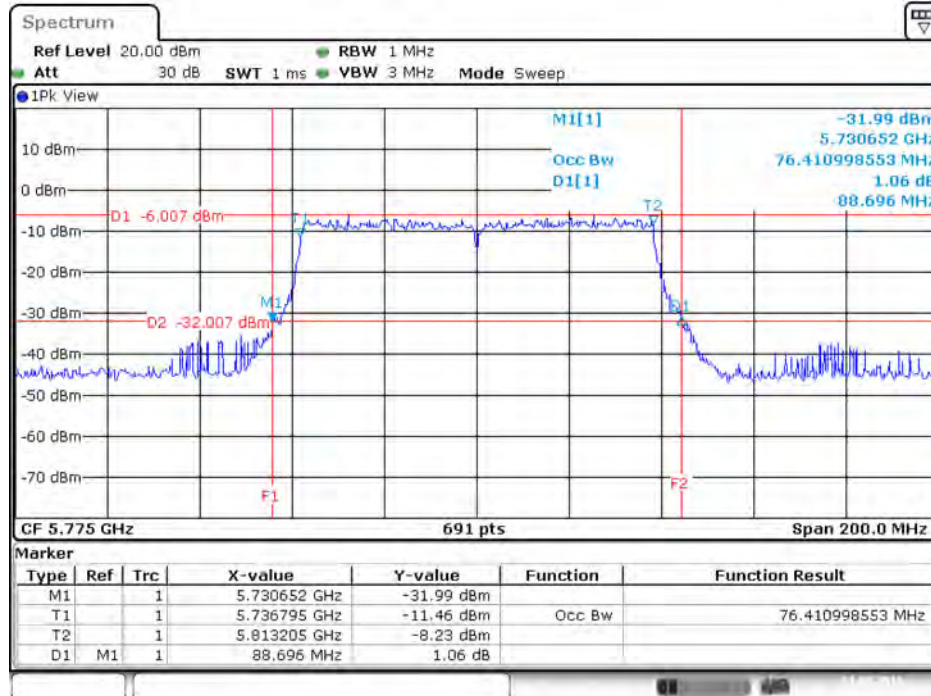
Date: 23.MAY.2016 16:12:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 4 / 5210 MHz



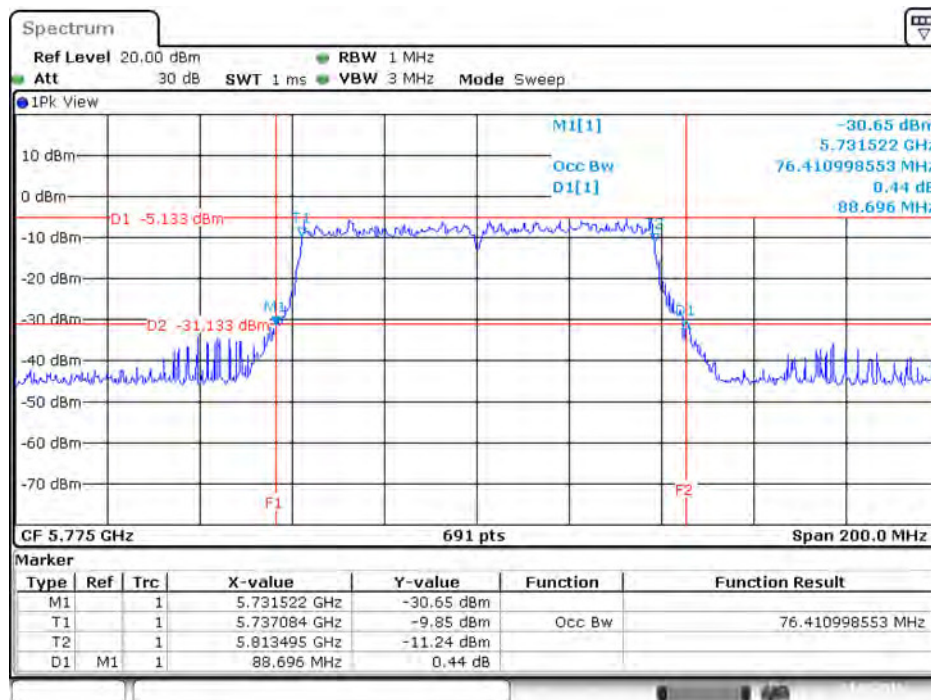
Date: 23.MAY.2016 16:13:20

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 1 / 5775 MHz



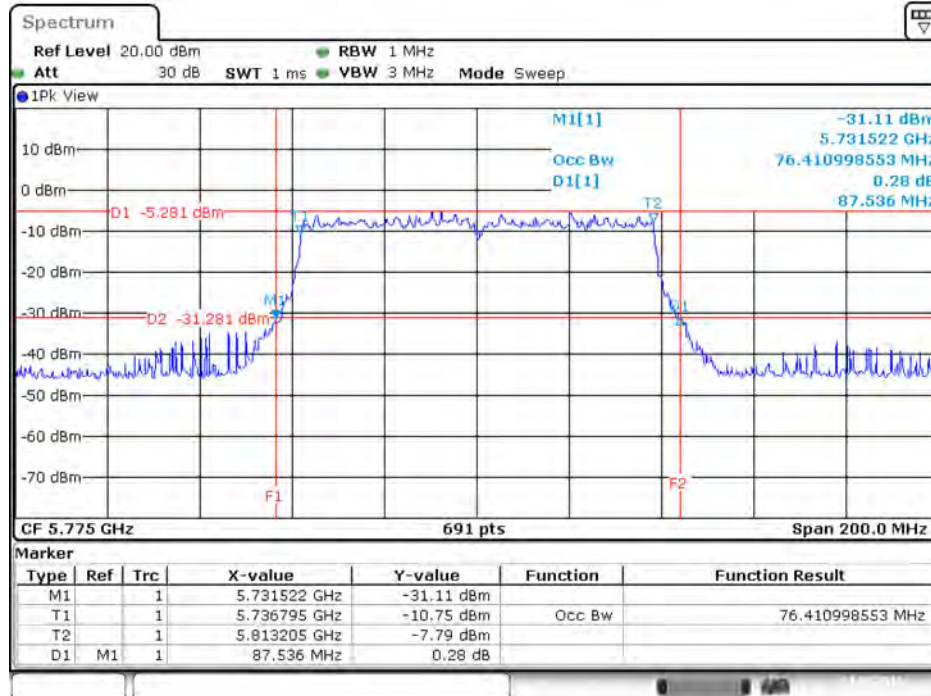
Date: 23.MAY.2016 16:15:24

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 2 / 5775 MHz



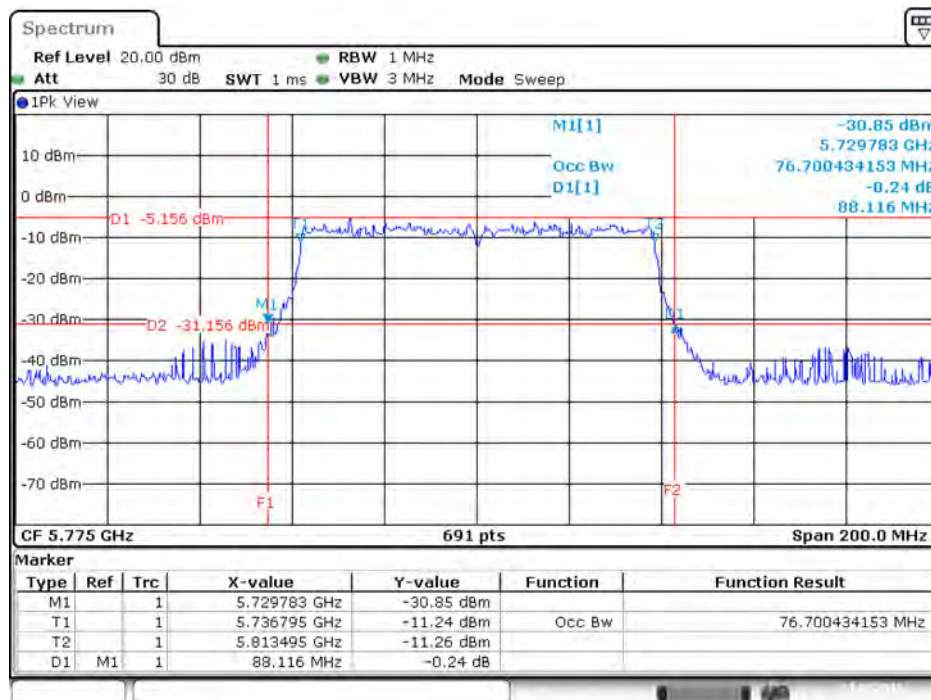
Date: 23.MAY.2016 16:15:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 3 / 5775 MHz



Date: 23.MAY.2016 16:16:44

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 4 / 5775 MHz

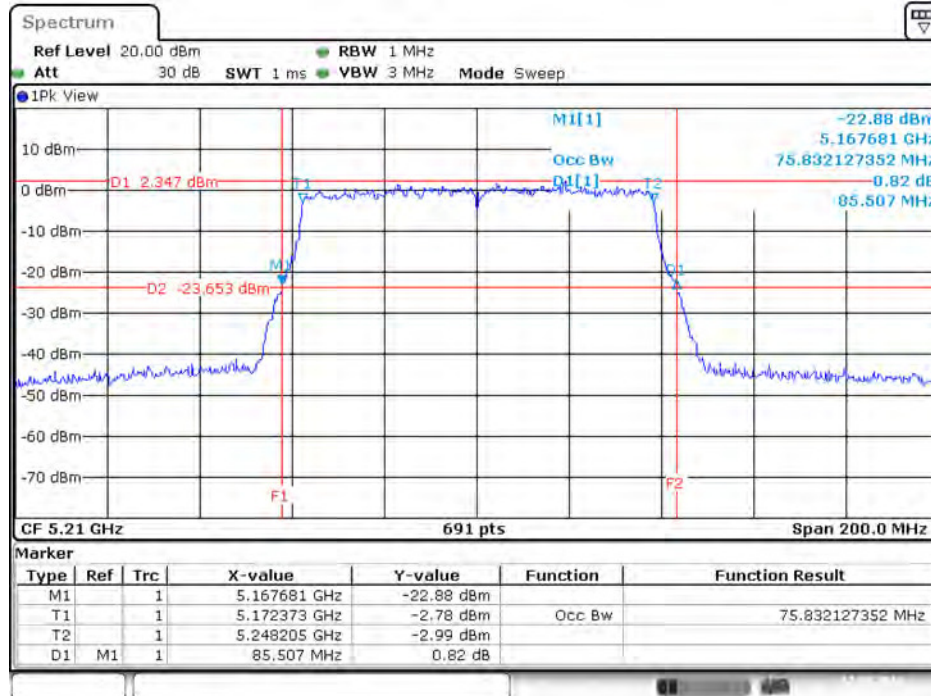


Date: 23.MAY.2016 16:17:19

For 802.11ac MCS0/Nss2 VHT80+80 Mode

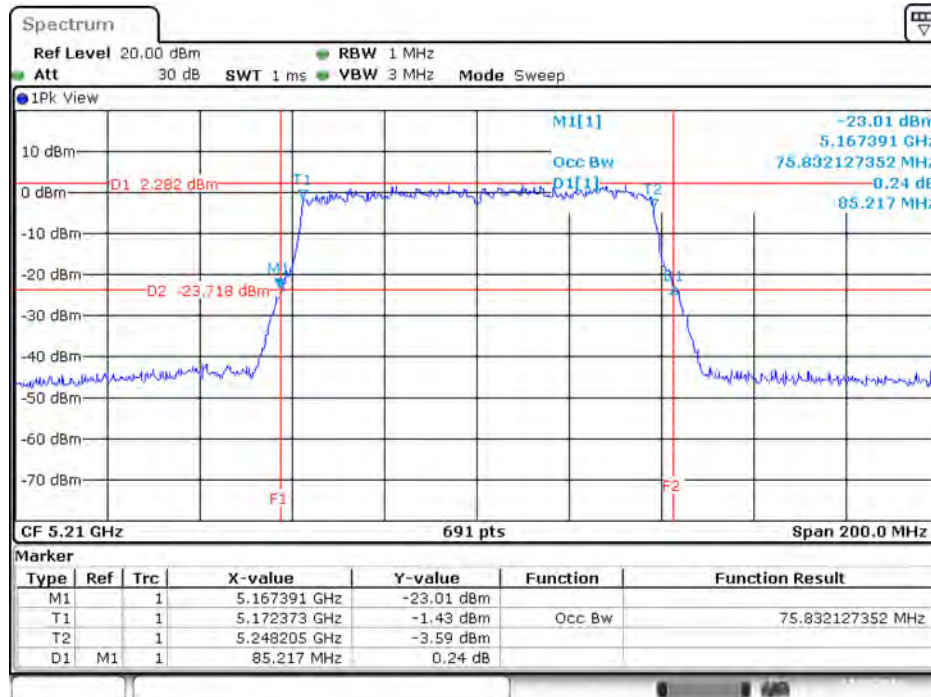
Type 1

26dB Bandwidth and 99% Occupied Bandwidth Plot on Chain 1 / 5210 MHz



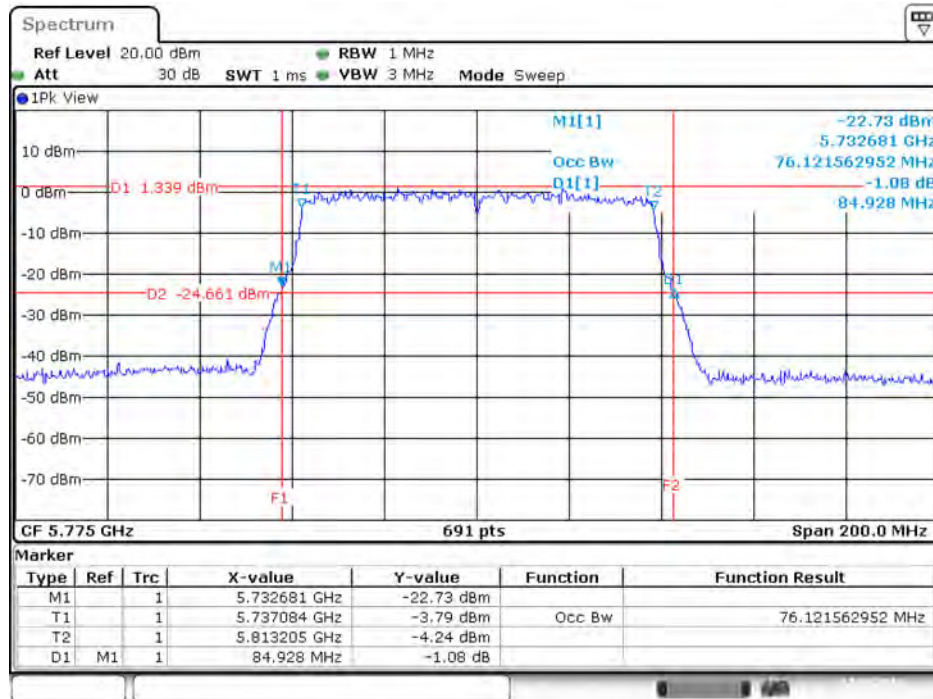
Date: 17.MAY.2016 22:02:19

26dB Bandwidth and 99% Occupied Bandwidth Plot on Chain 2 / 5210 MHz



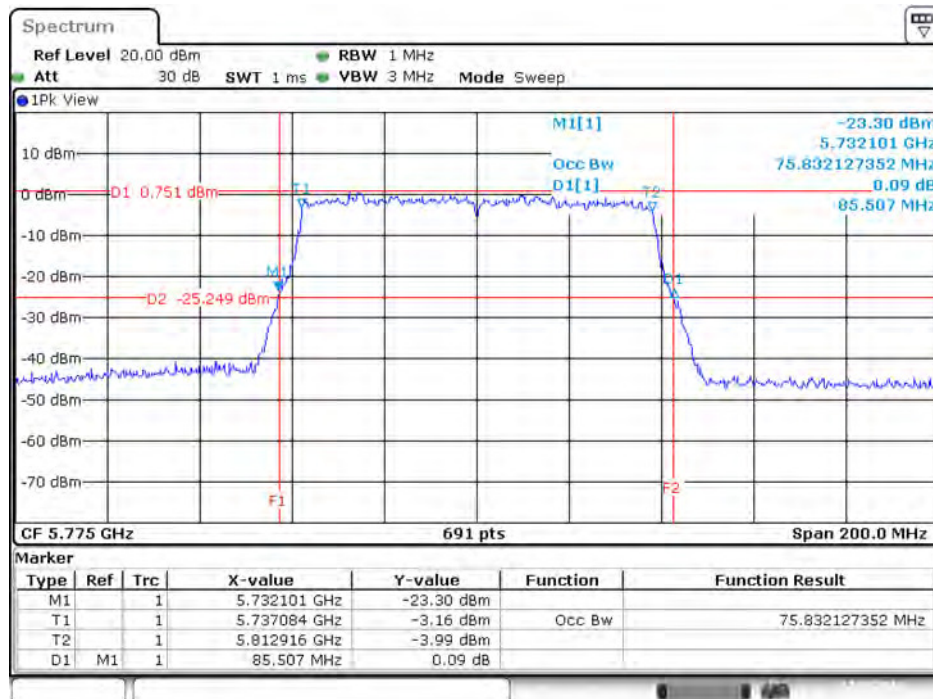
Date: 17.MAY.2016 21:56:40

26dB Bandwidth and 99% Occupied Bandwidth Plot on Chain 3 / 5775 MHz



Date: 17.MAY.2016 22:03:51

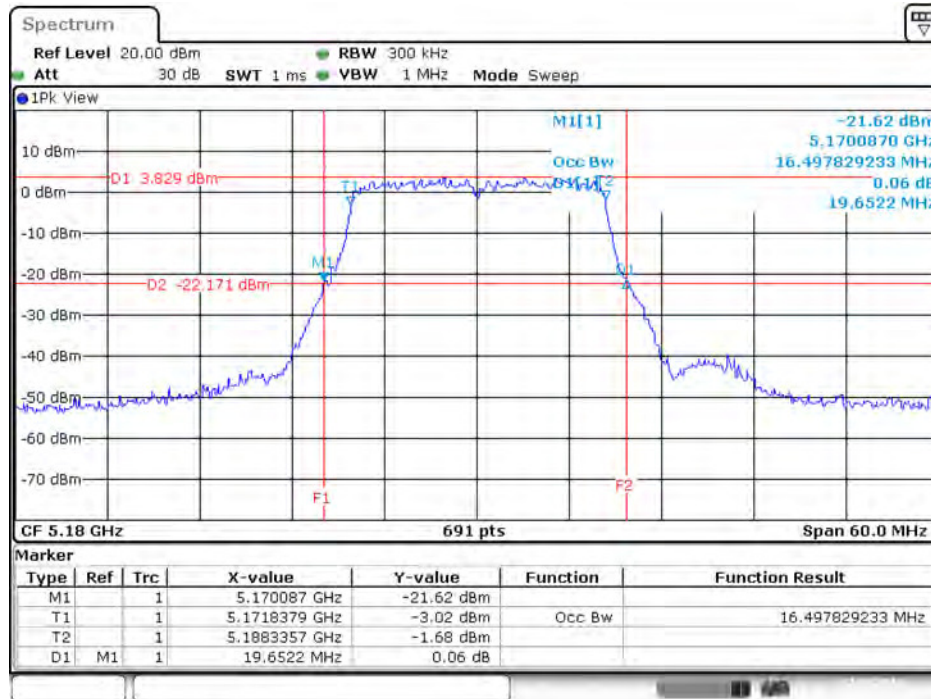
26dB Bandwidth and 99% Occupied Bandwidth Plot on Chain 4 / 5775 MHz



Date: 17.MAY.2016 22:03:12

For Mode 2:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5180 MHz



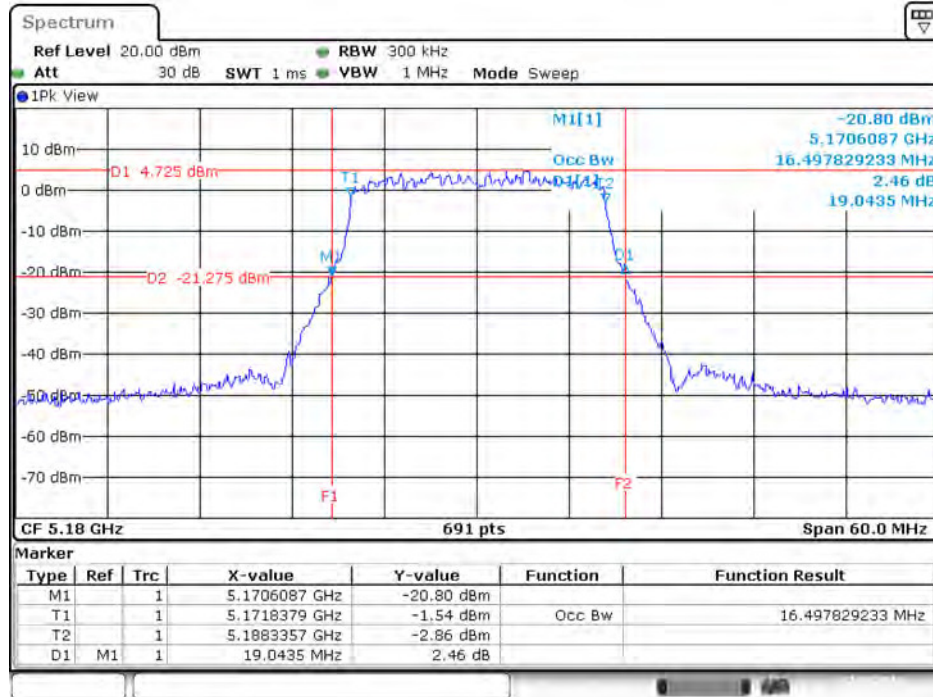
Date: 22.MAY.2016 16:01:37

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5180 MHz



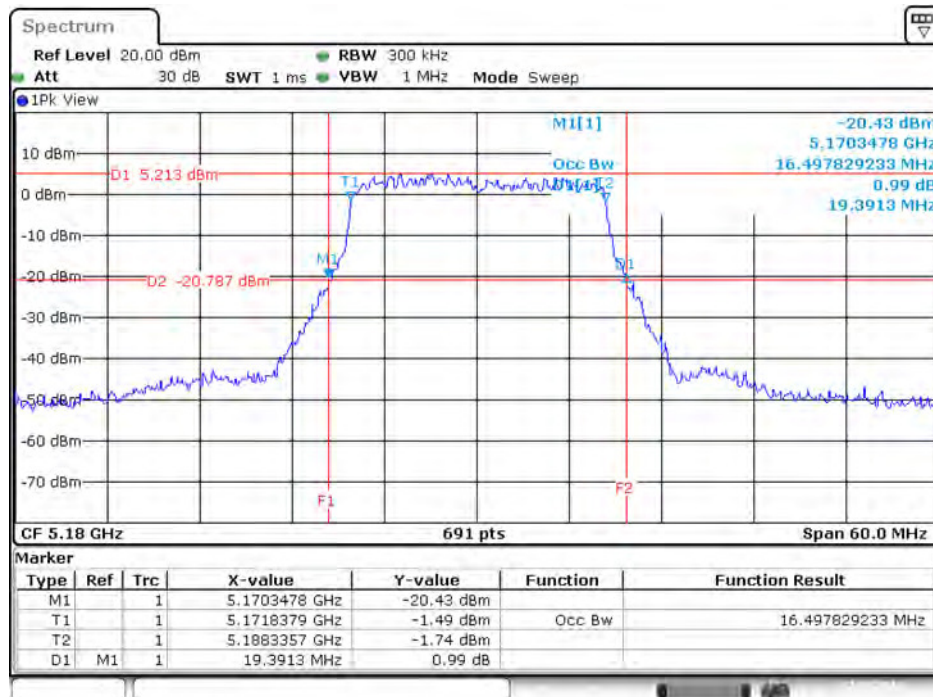
Date: 22.MAY.2016 16:01:48

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5180 MHz



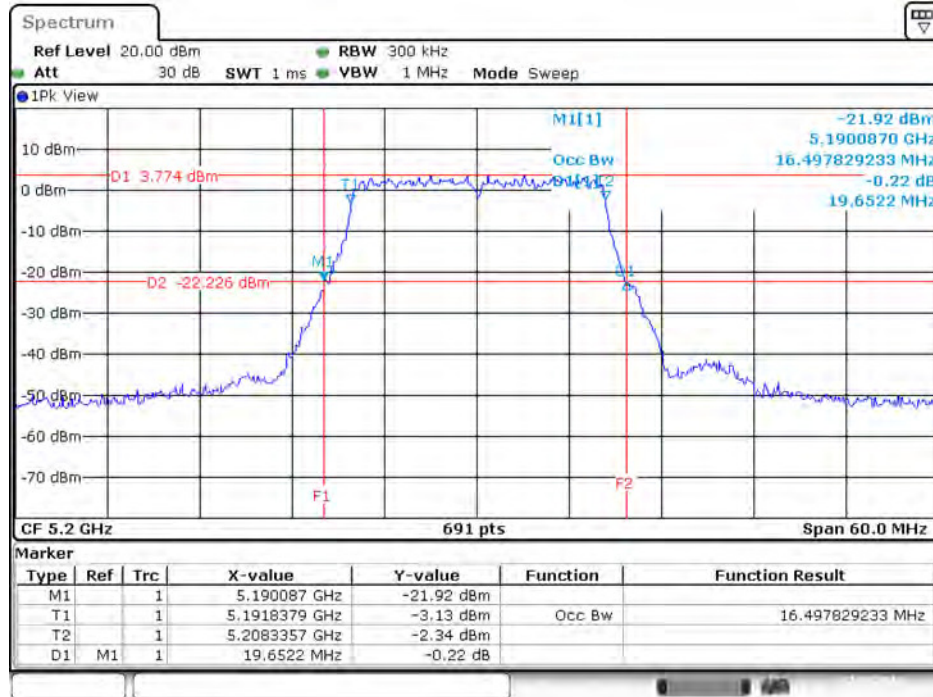
Date: 22.MAY.2016 16:02:01

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5180 MHz

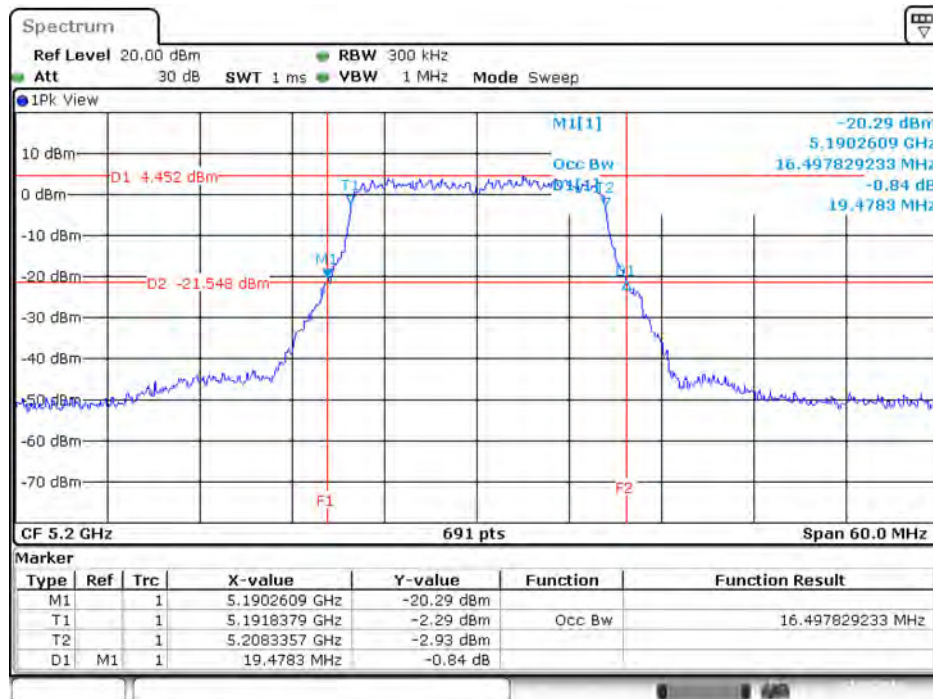


Date: 22.MAY.2016 16:02:12

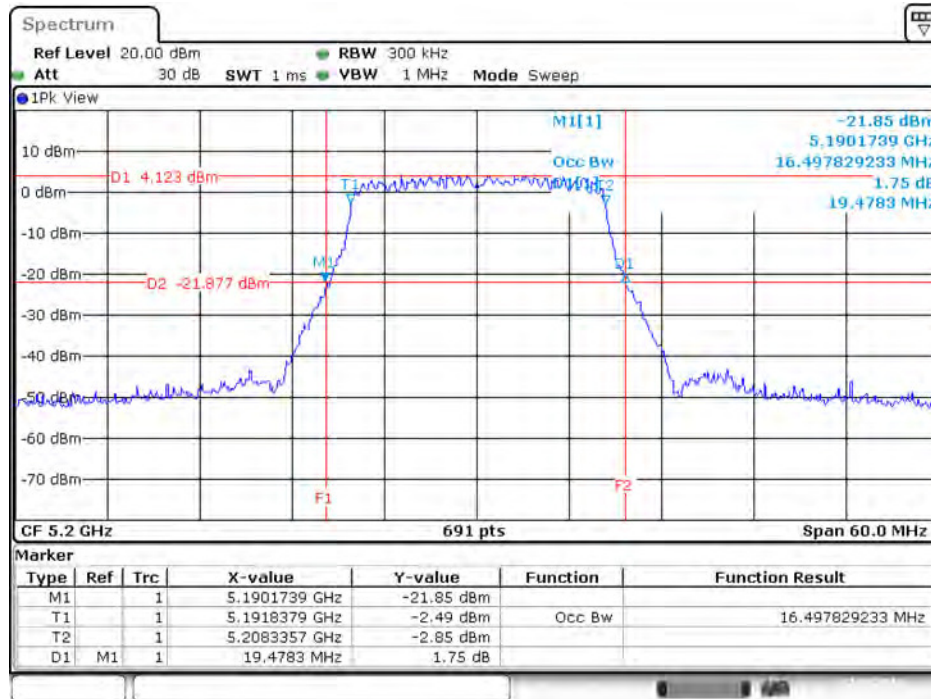
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 1 / 5200 MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 2 / 5200 MHz

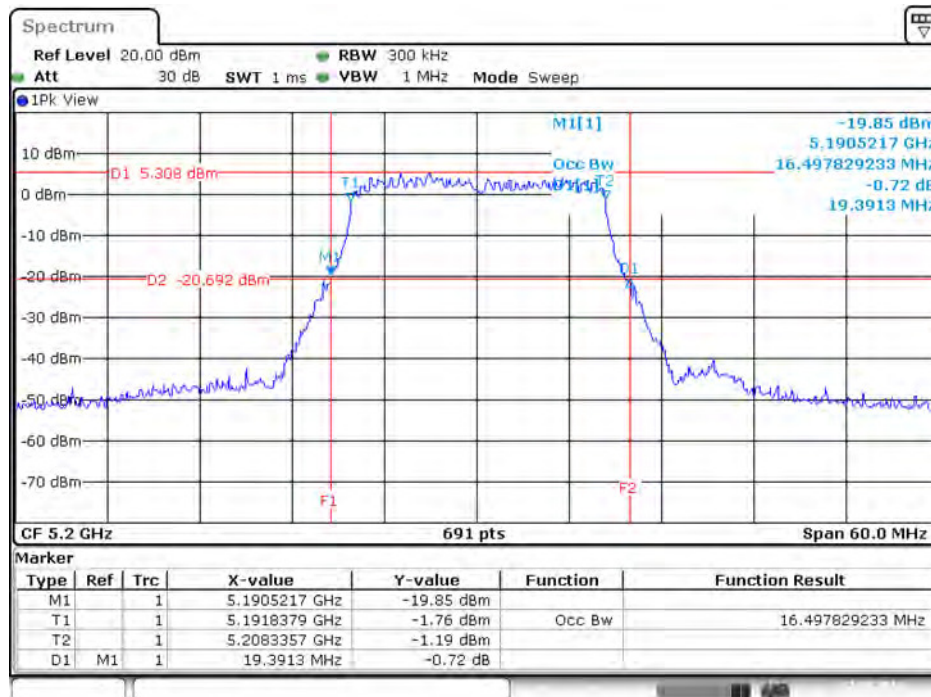


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5200 MHz



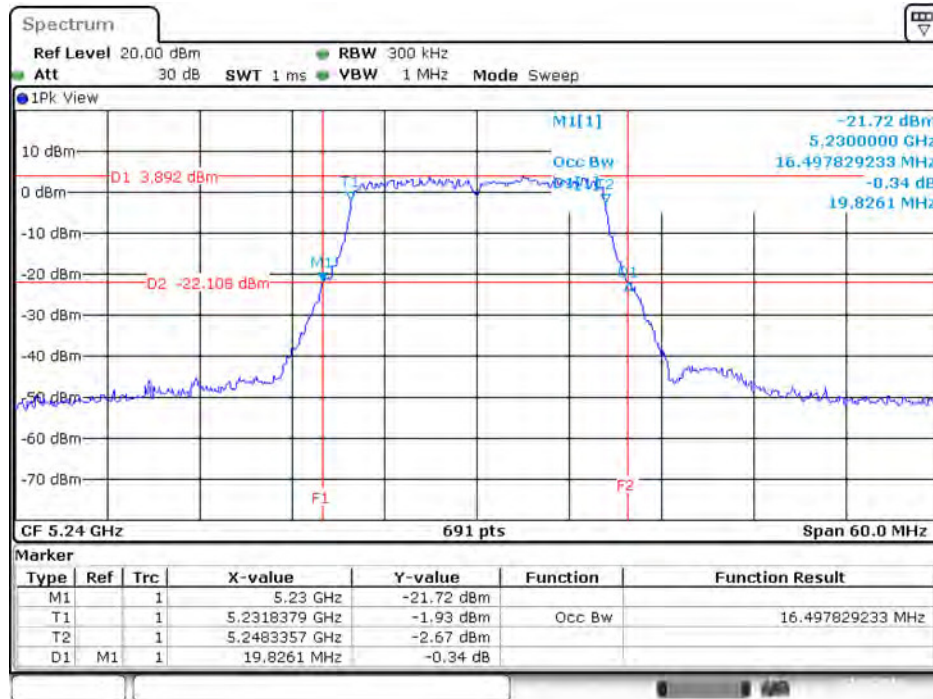
Date: 22.MAY.2016 16:02:53

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5200 MHz



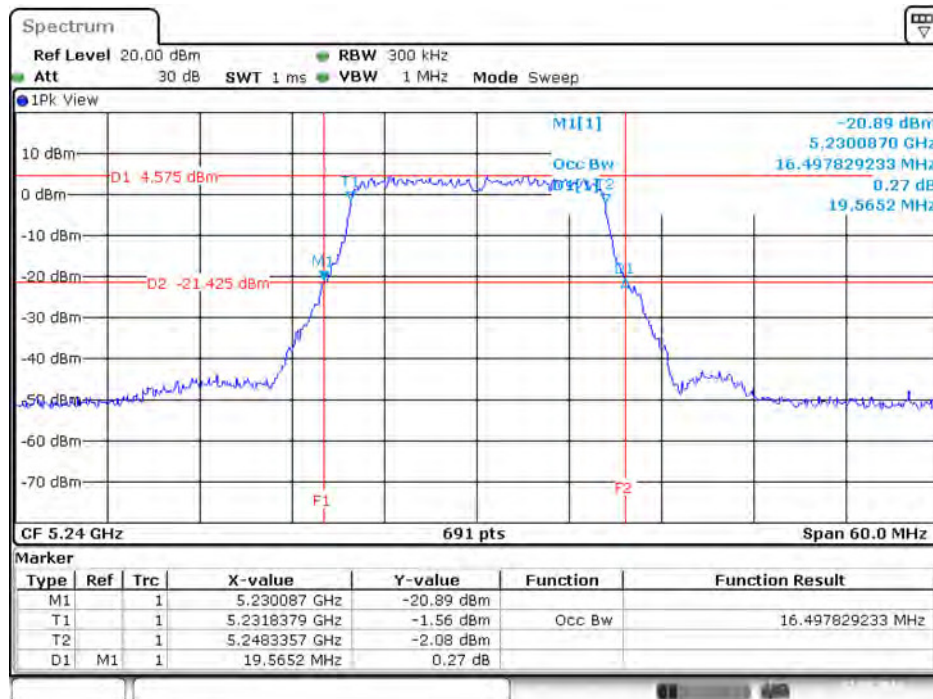
Date: 22.MAY.2016 16:02:33

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5240 MHz



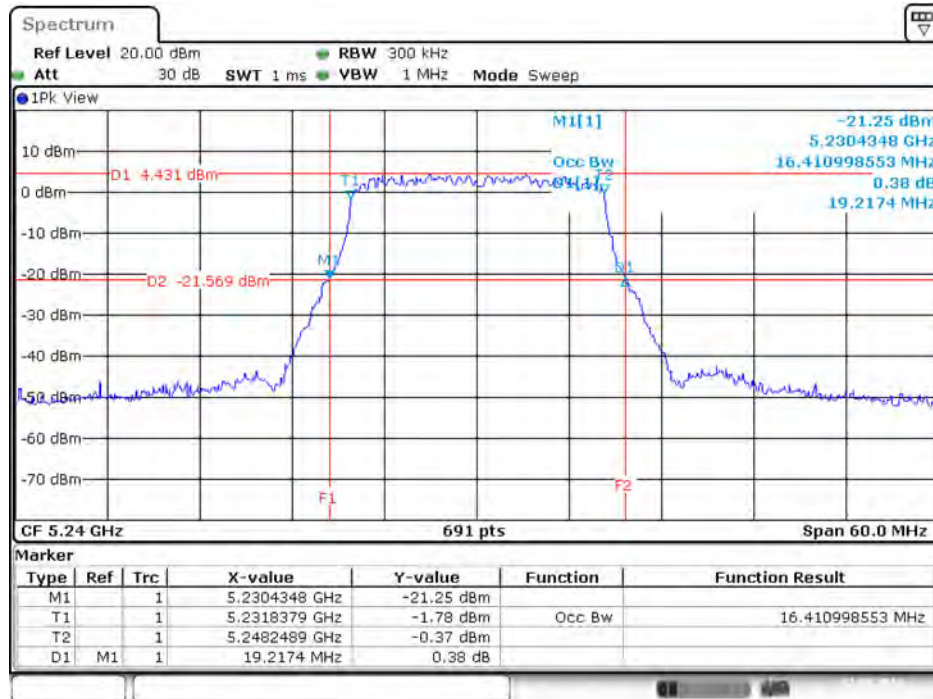
Date: 22.MAY.2016 16:03:37

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5240 MHz



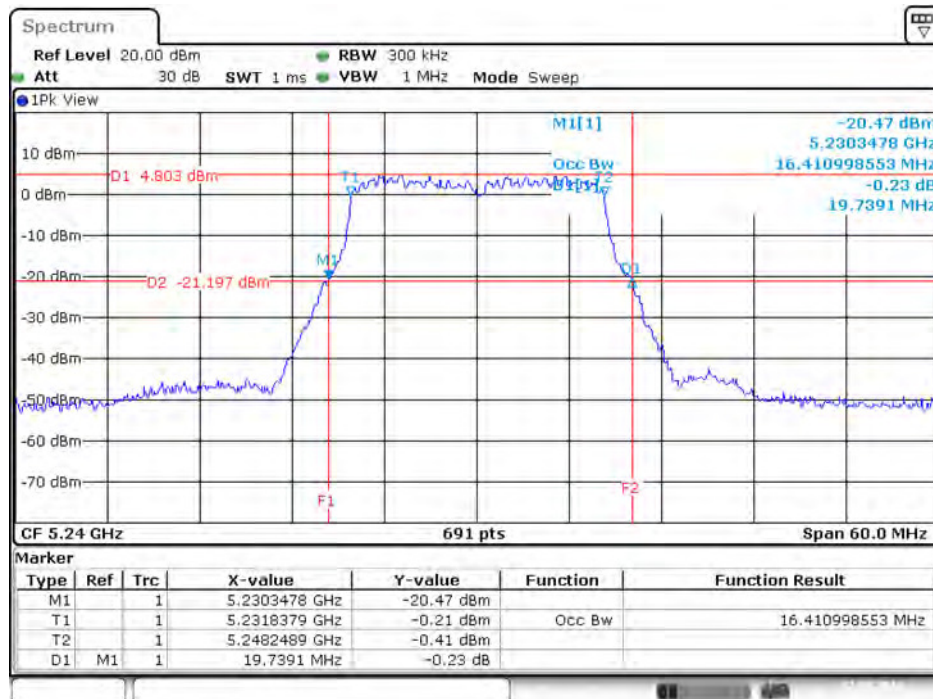
Date: 22.MAY.2016 16:03:49

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 3 / 5240 MHz



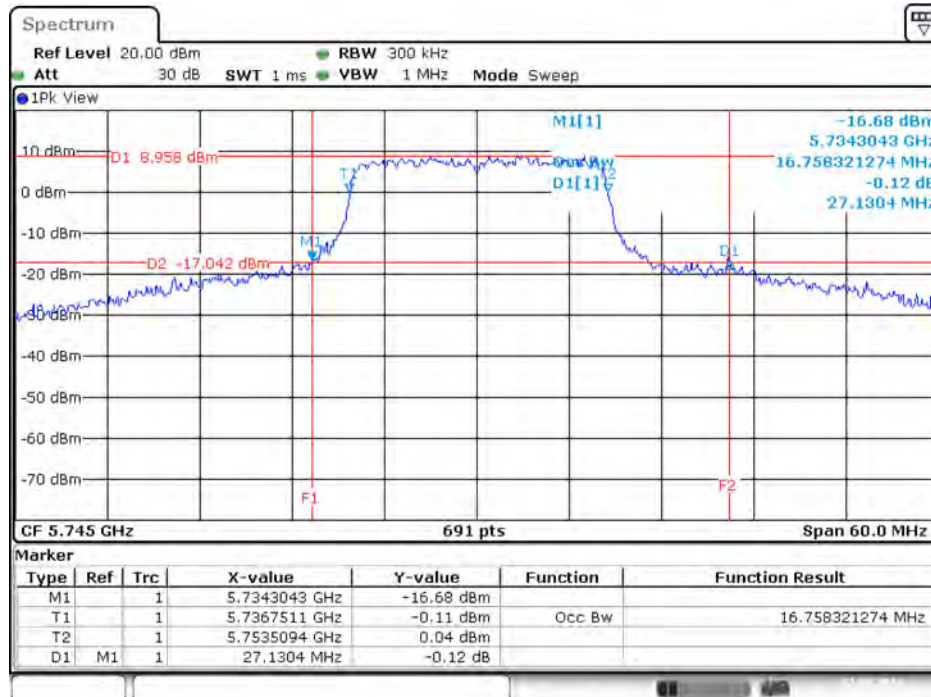
Date: 22.MAY.2016 16:04:03

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 4 / 5240 MHz



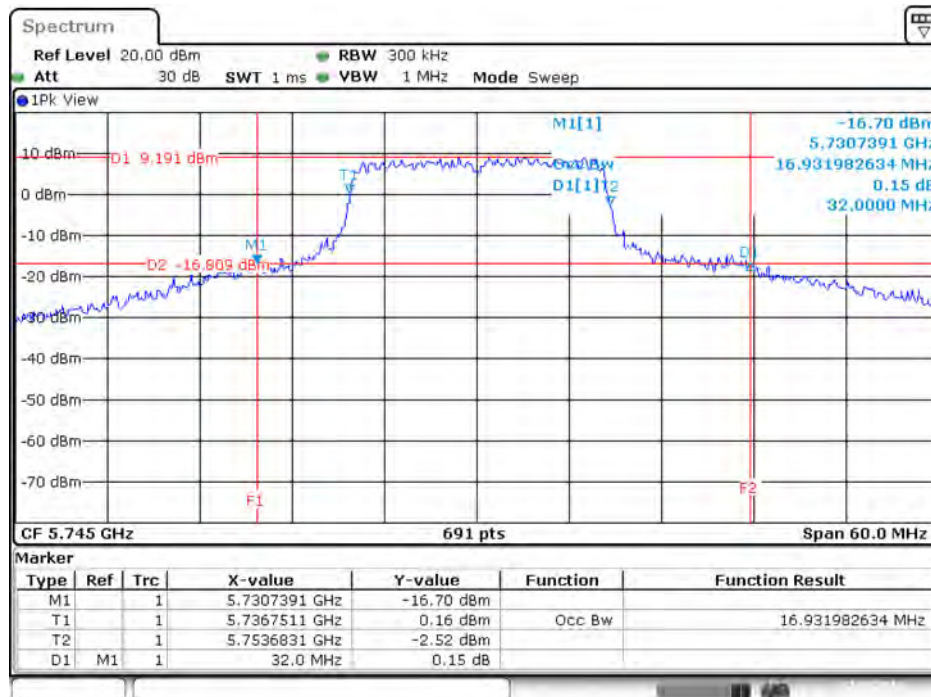
Date: 22.MAY.2016 16:04:14

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5745 MHz



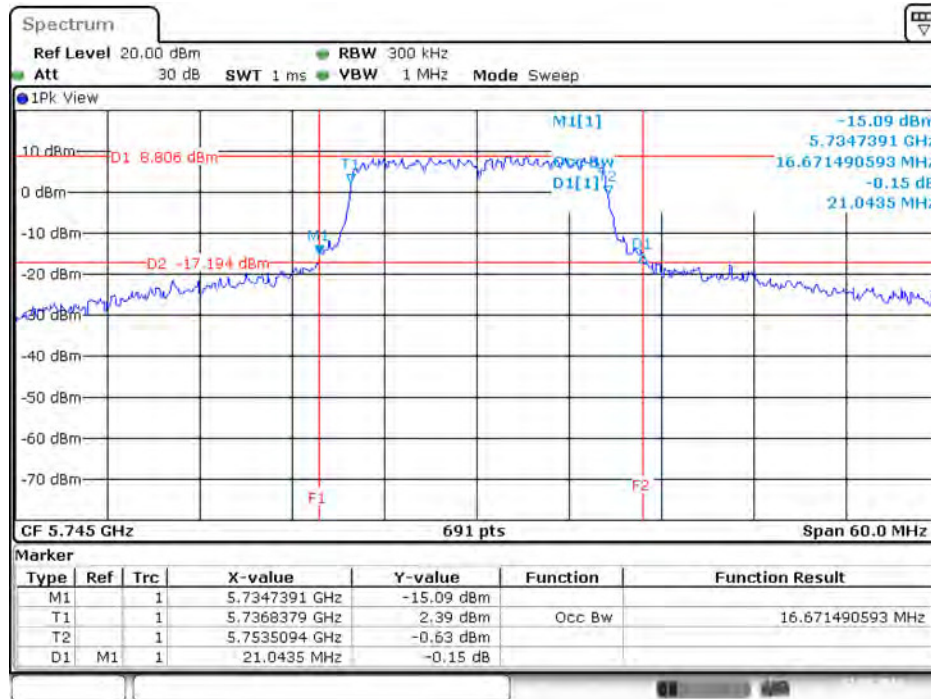
Date: 22.MAY.2016 16:01:08

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5745 MHz



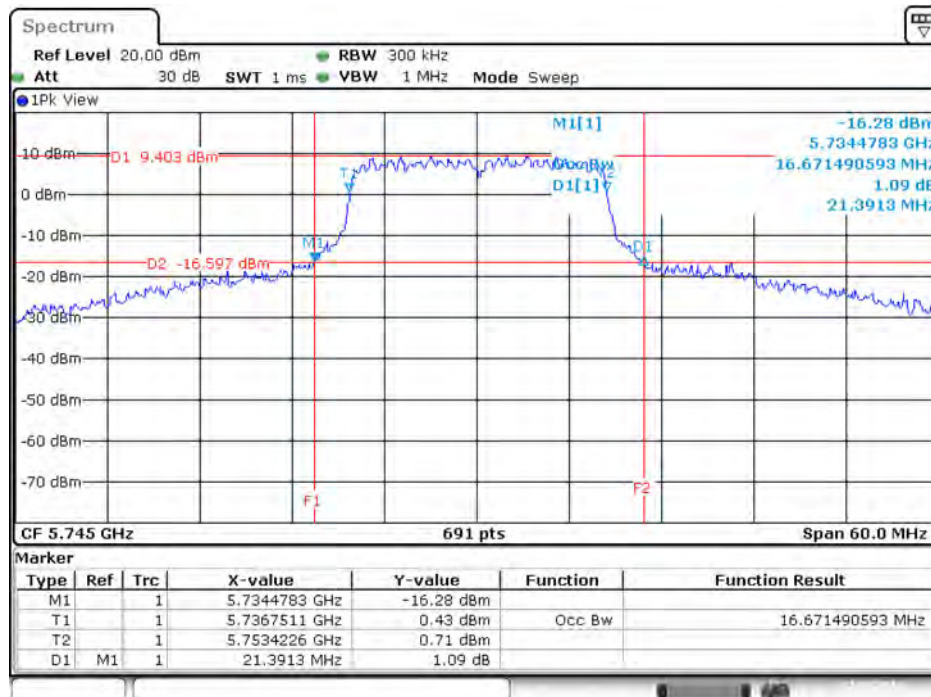
Date: 22.MAY.2016 16:00:55

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 3 / 5745 MHz



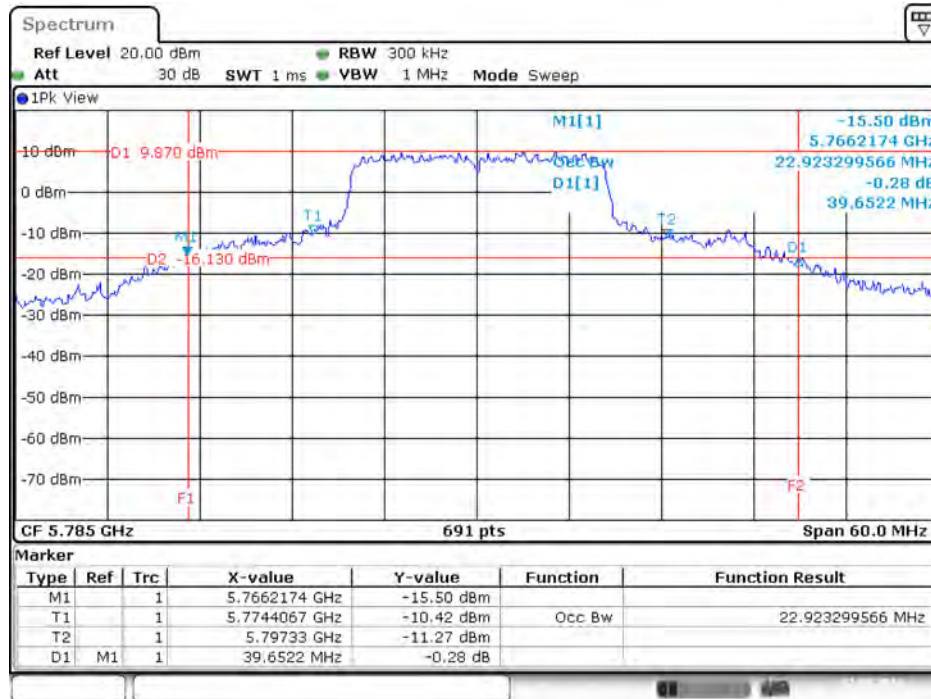
Date: 22.MAY.2016 16:00:43

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 4 / 5745 MHz



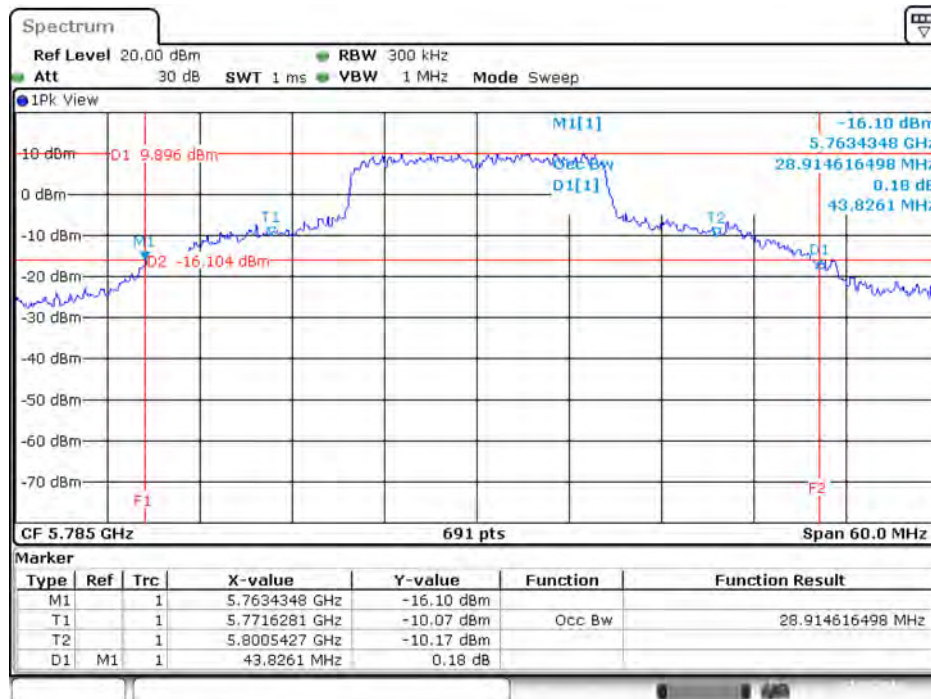
Date: 22.MAY.2016 16:00:30

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5785 MHz



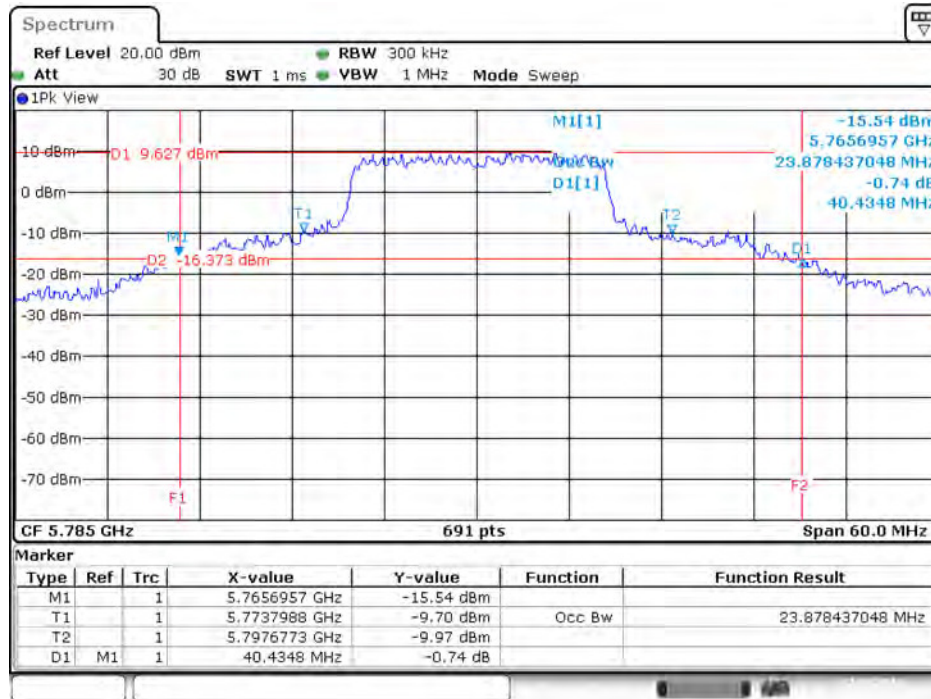
Date: 22.MAY.2016 15:59:30

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5785 MHz



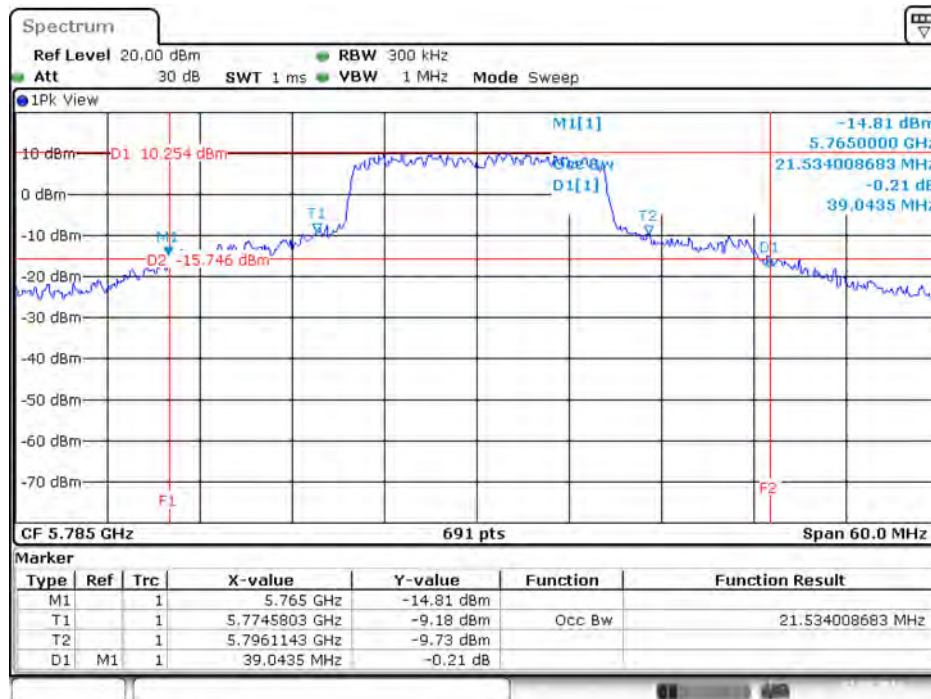
Date: 22.MAY.2016 15:59:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 3 / 5785 MHz



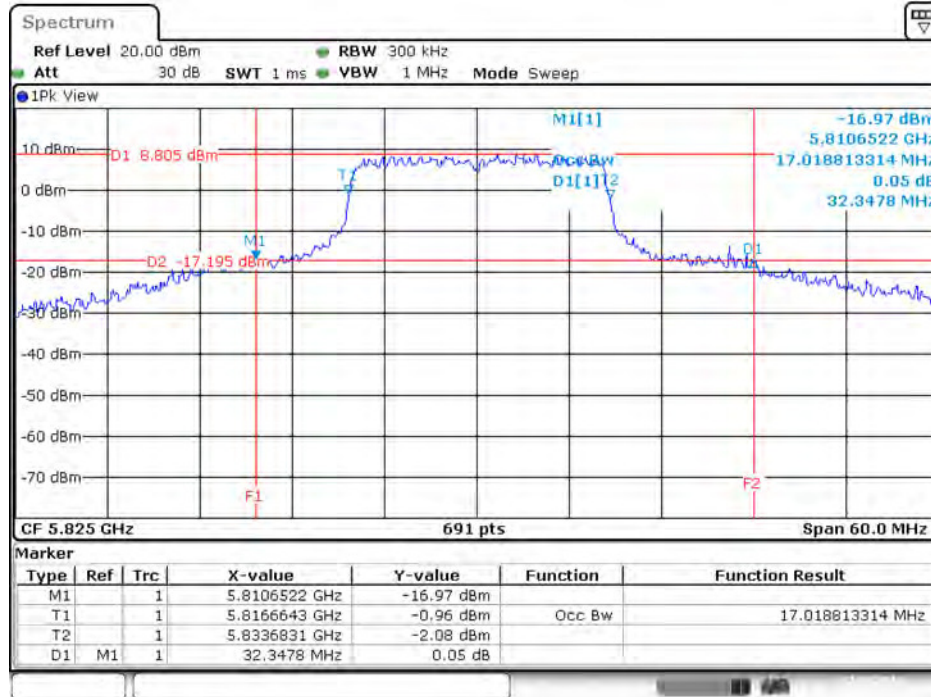
Date: 22.MAY.2016 15:59:54

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 4 / 5785 MHz



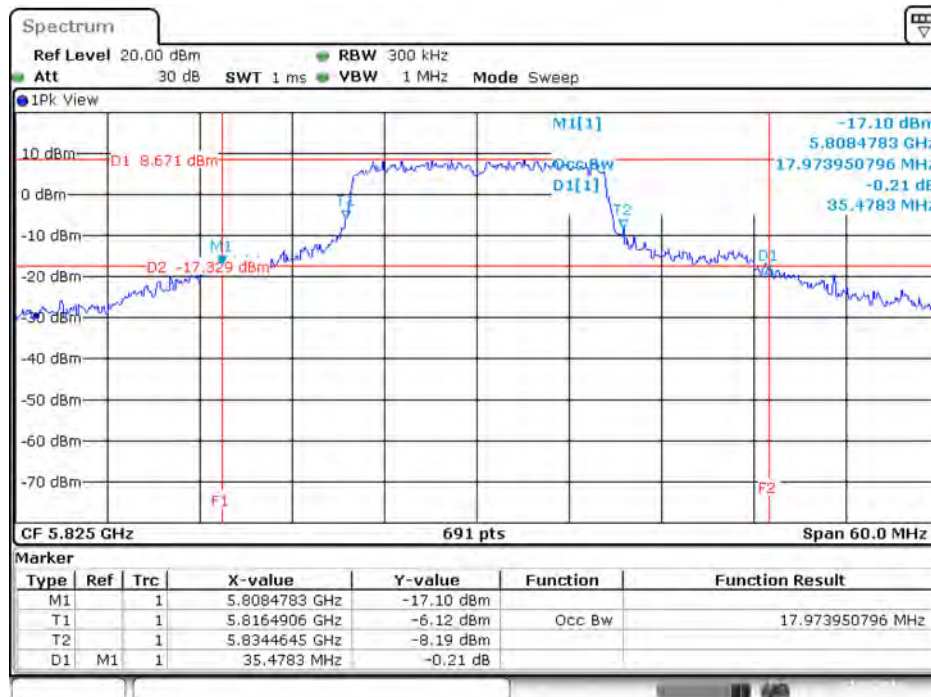
Date: 22.MAY.2016 16:00:05

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 / 5825 MHz



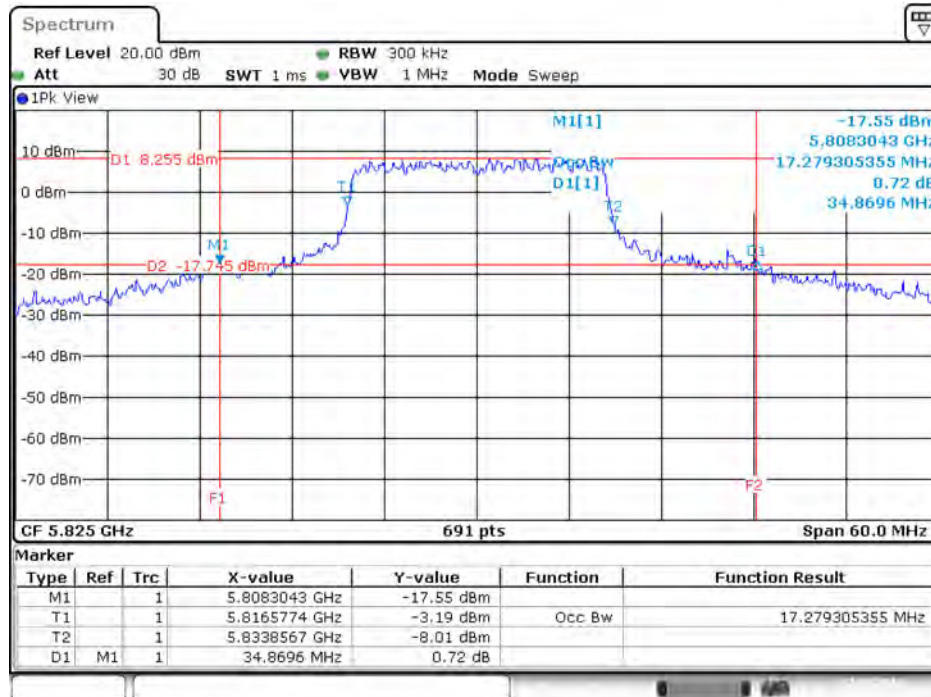
Date: 22.MAY.2016 15:59:05

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 2 / 5825 MHz



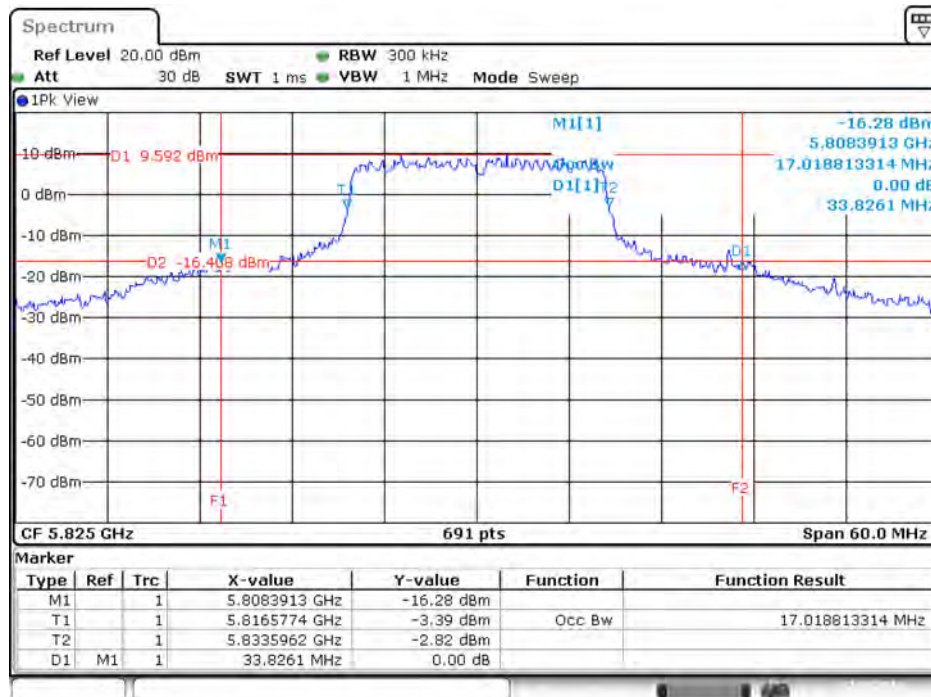
Date: 22.MAY.2016 15:58:54

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 3 / 5825 MHz



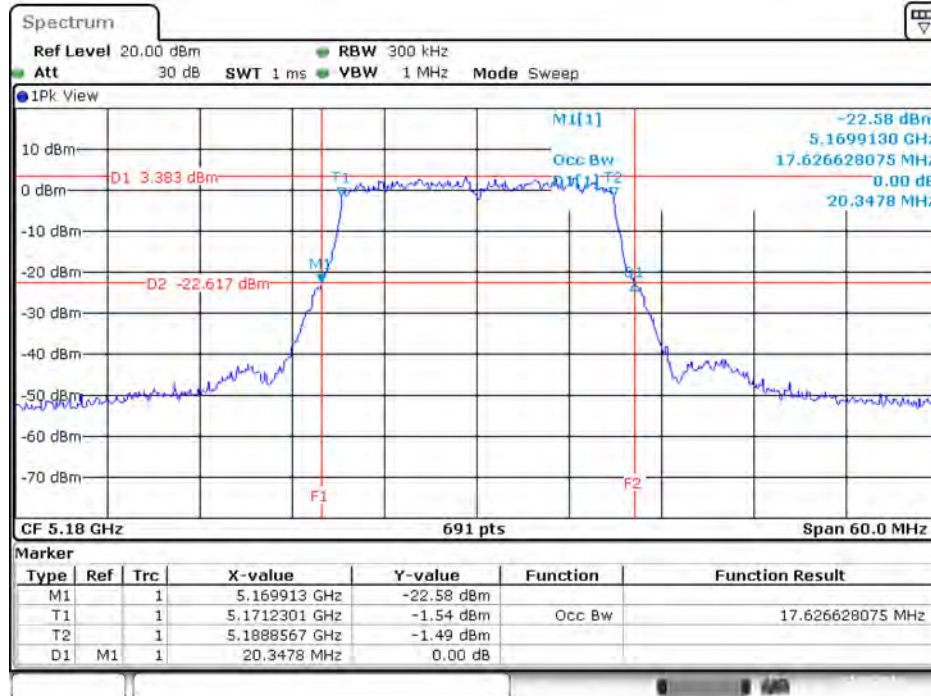
Date: 22.MAY.2016 15:58:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11 a / Chain 4 / 5825 MHz



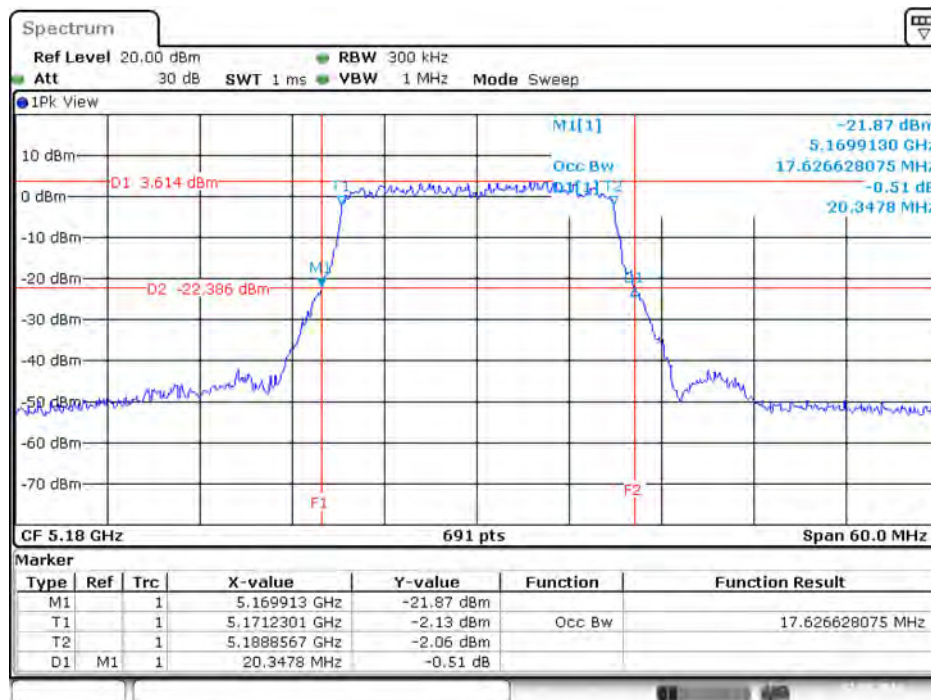
Date: 22.MAY.2016 15:58:30

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5180 MHz



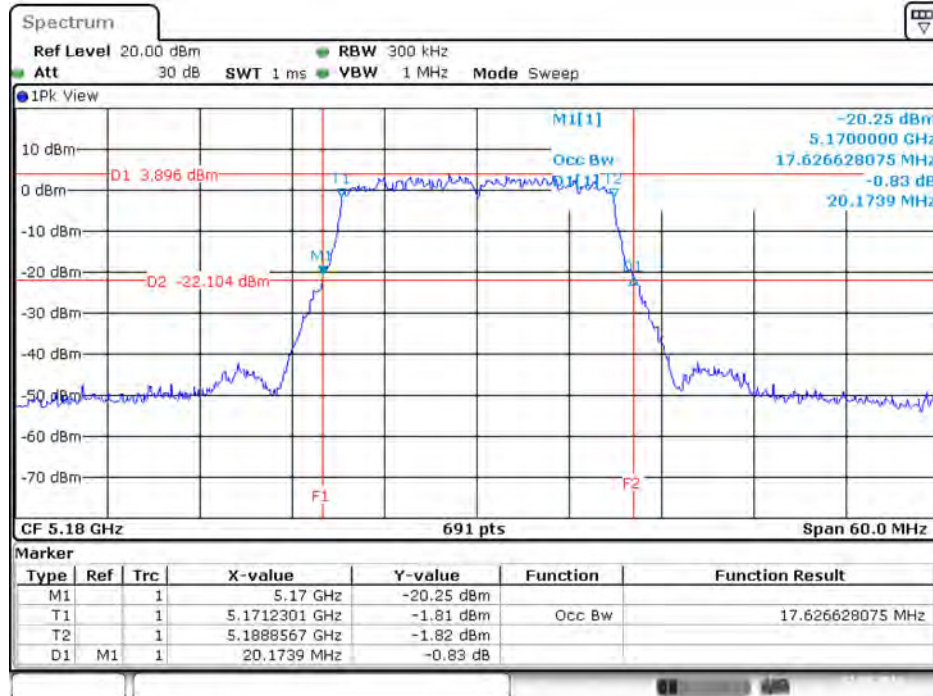
Date: 22.MAY.2016 15:50:00

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5180 MHz



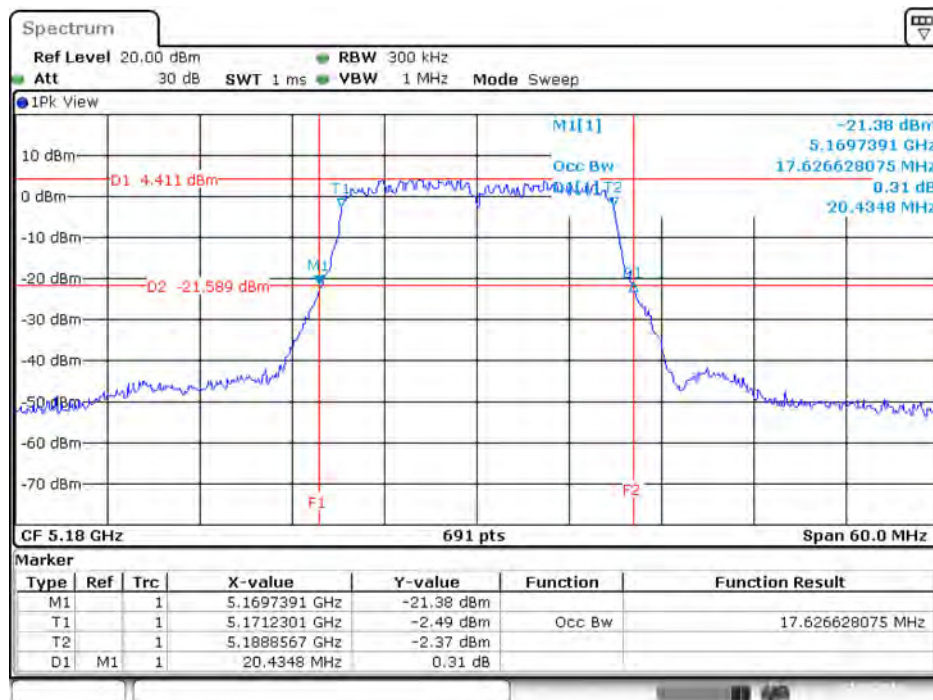
Date: 22.MAY.2016 15:50:11

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5180 MHz



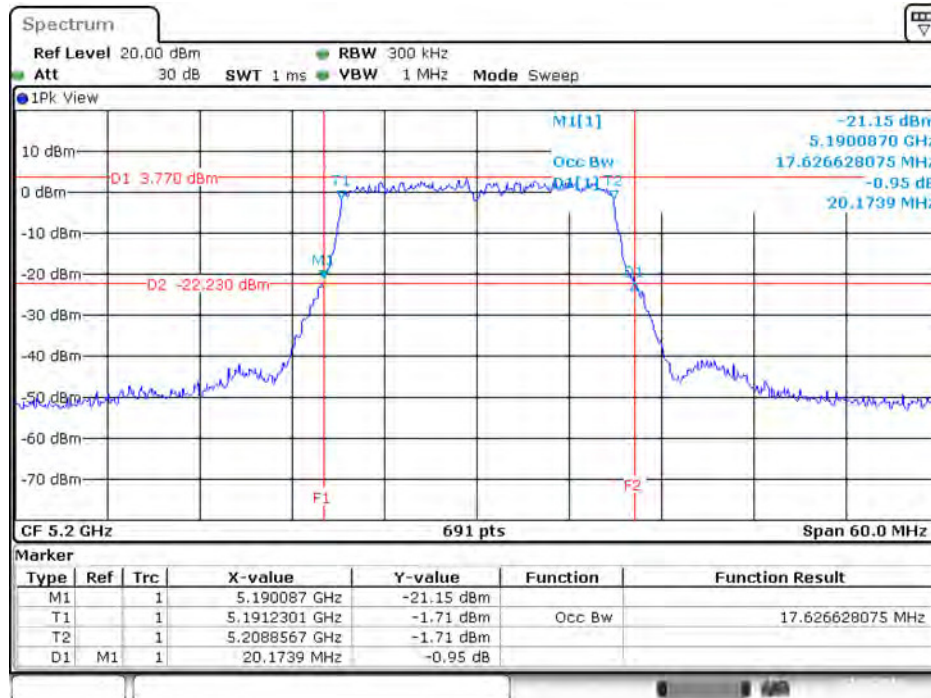
Date: 22.MAY.2016 15:50:22

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5180 MHz



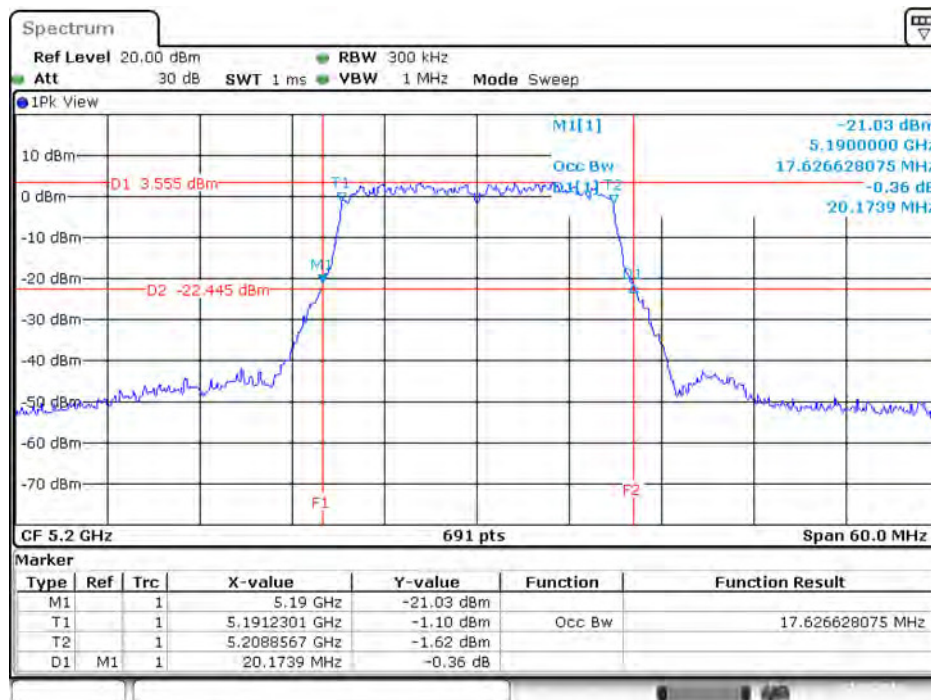
Date: 22.MAY.2016 15:50:35

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5200 MHz



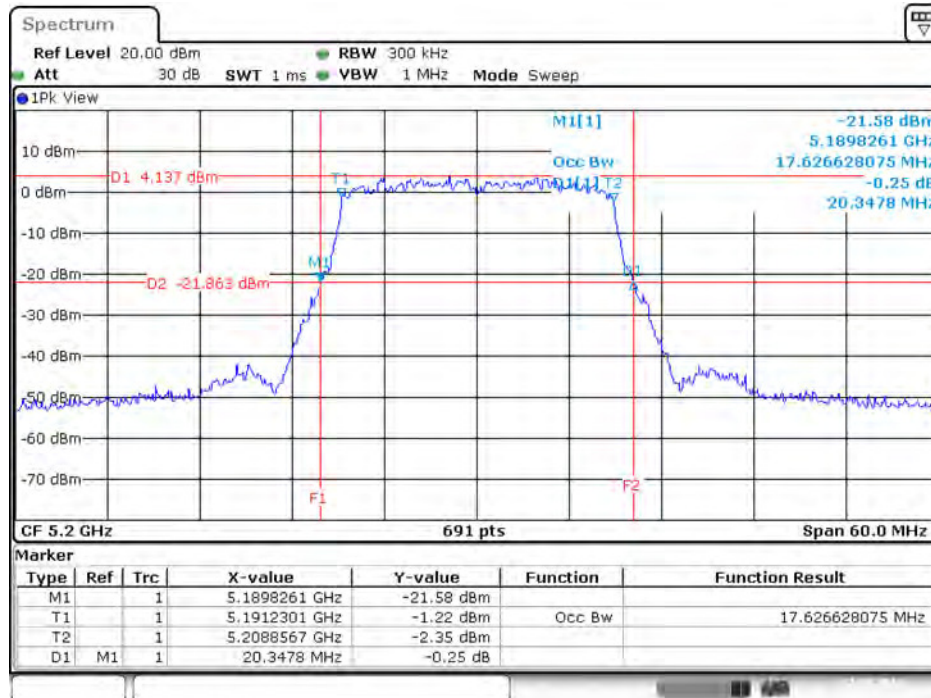
Date: 22.MAY.2016 15:51:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5200 MHz



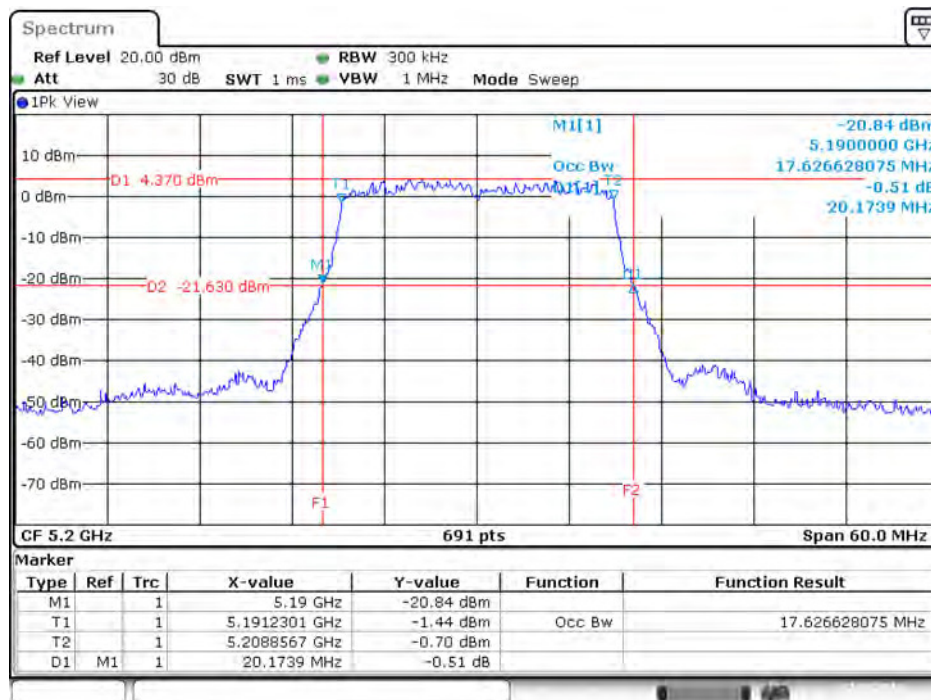
Date: 22.MAY.2016 15:51:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5200 MHz



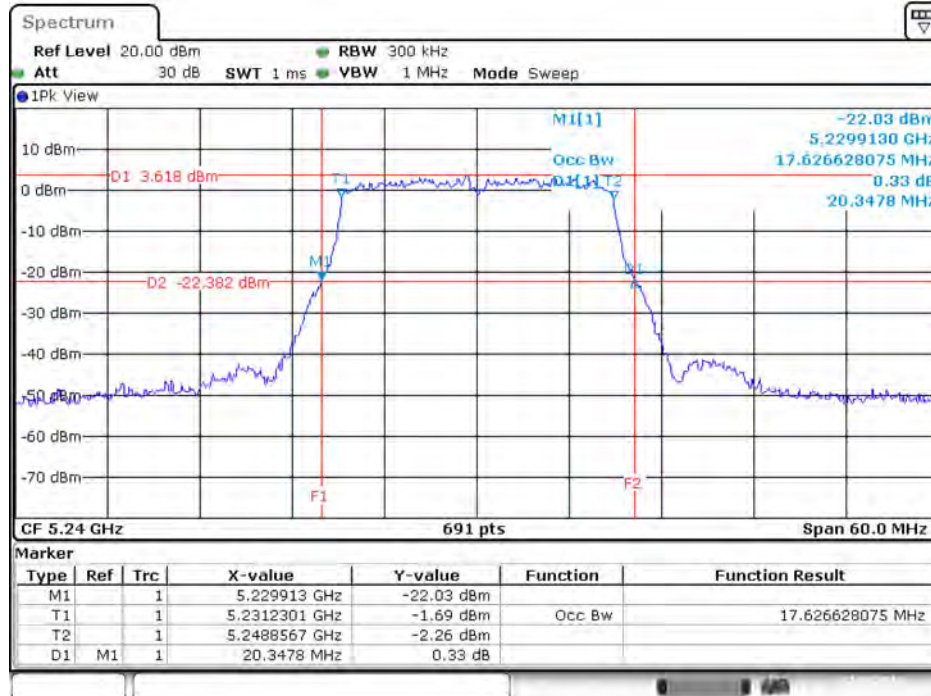
Date: 22.MAY.2016 15:51:12

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5200 MHz



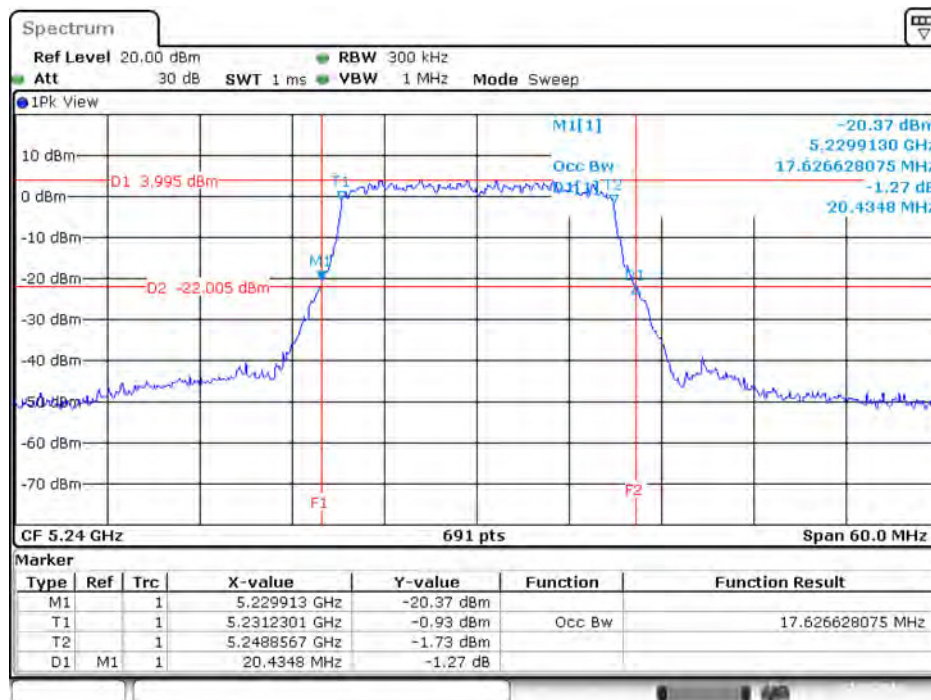
Date: 22.MAY.2016 15:51:00

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5240 MHz



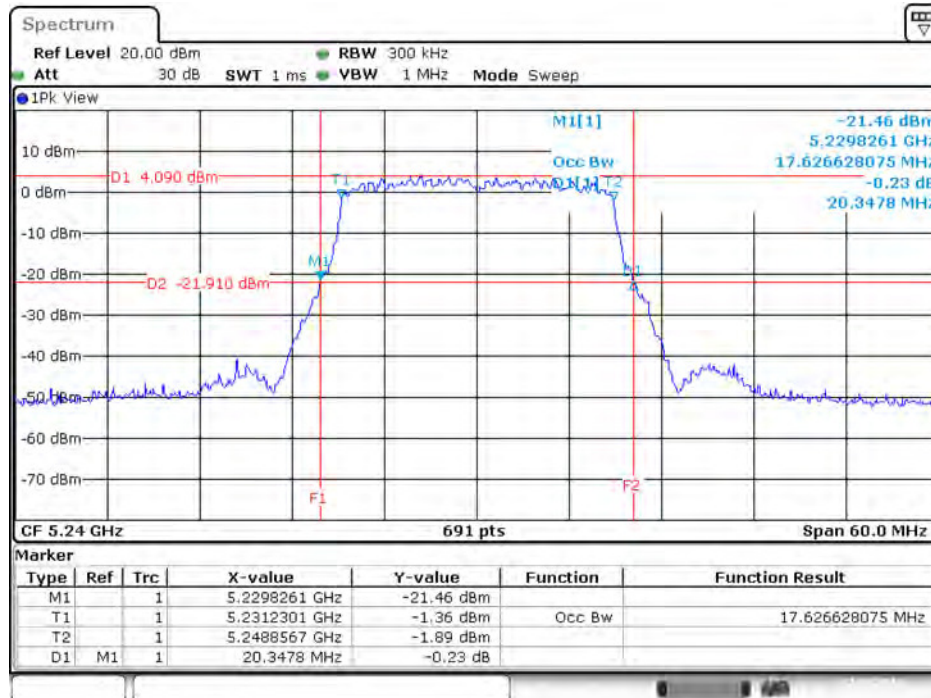
Date: 22.MAY.2016 15:52:05

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5240 MHz



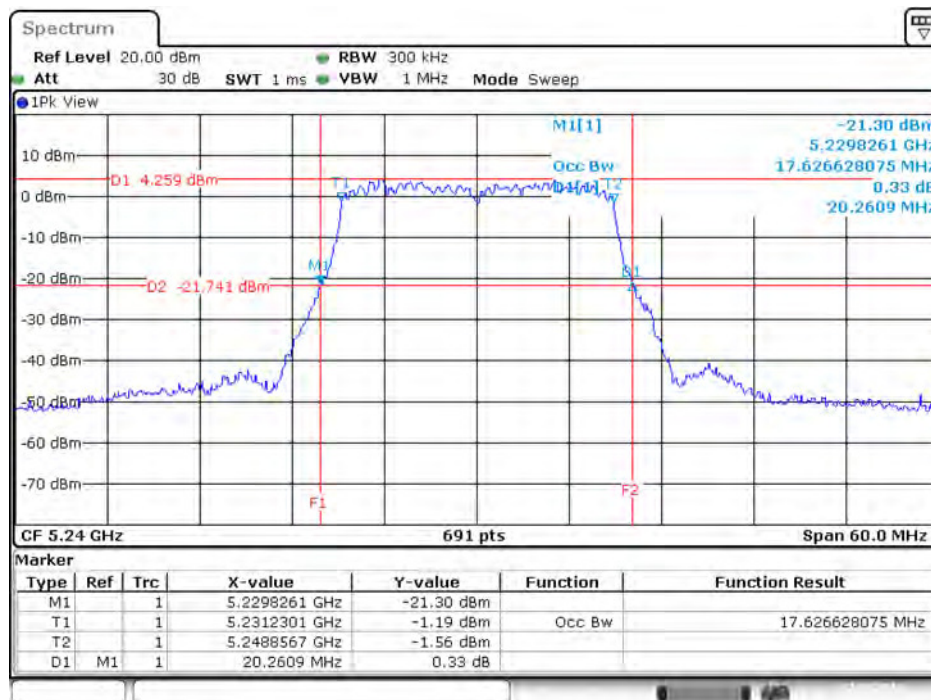
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5240 MHz



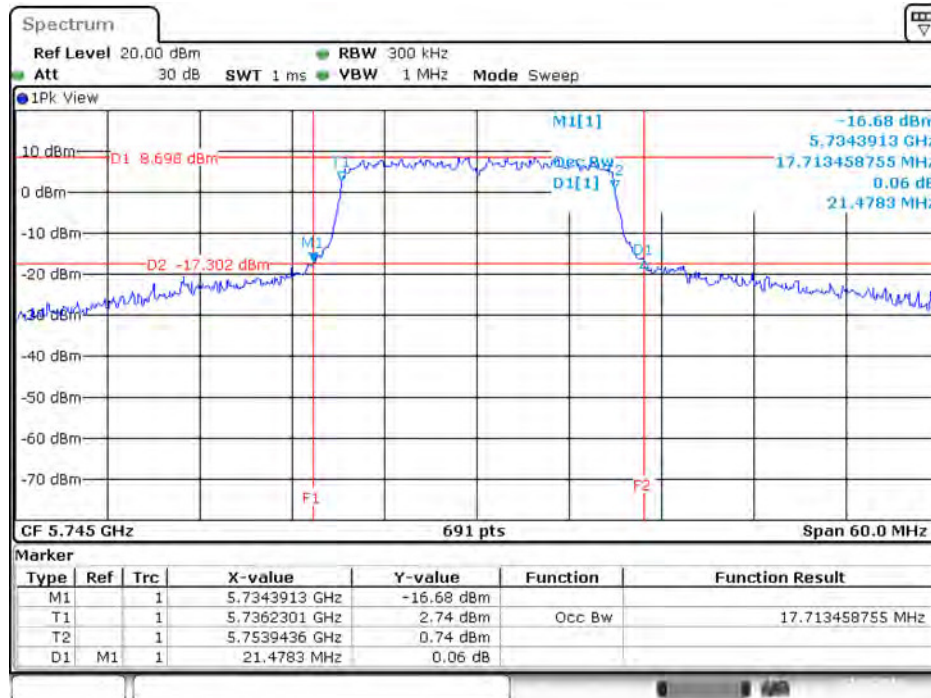
Date: 22.MAY.2016 15:52:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5240 MHz



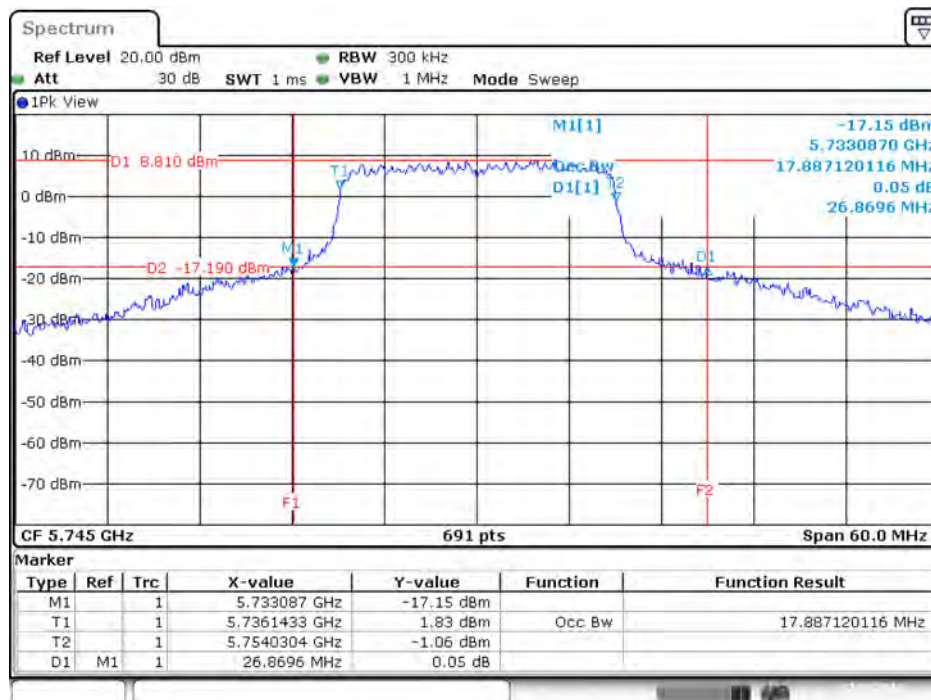
Date: 22.MAY.2016 15:52:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5745 MHz



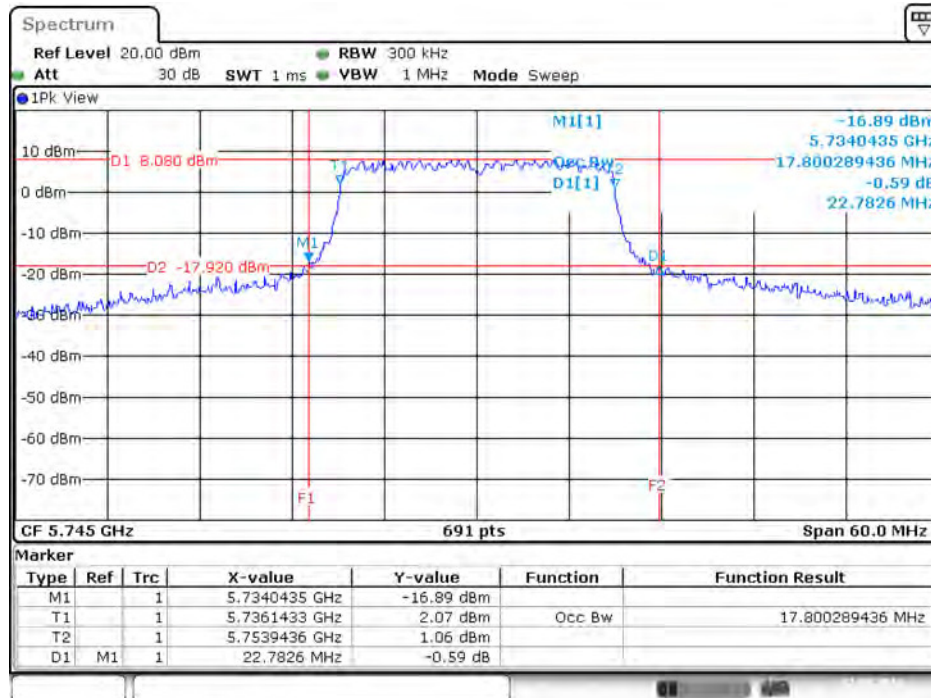
Date: 22.MAY.2016 15:53:57

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5745 MHz



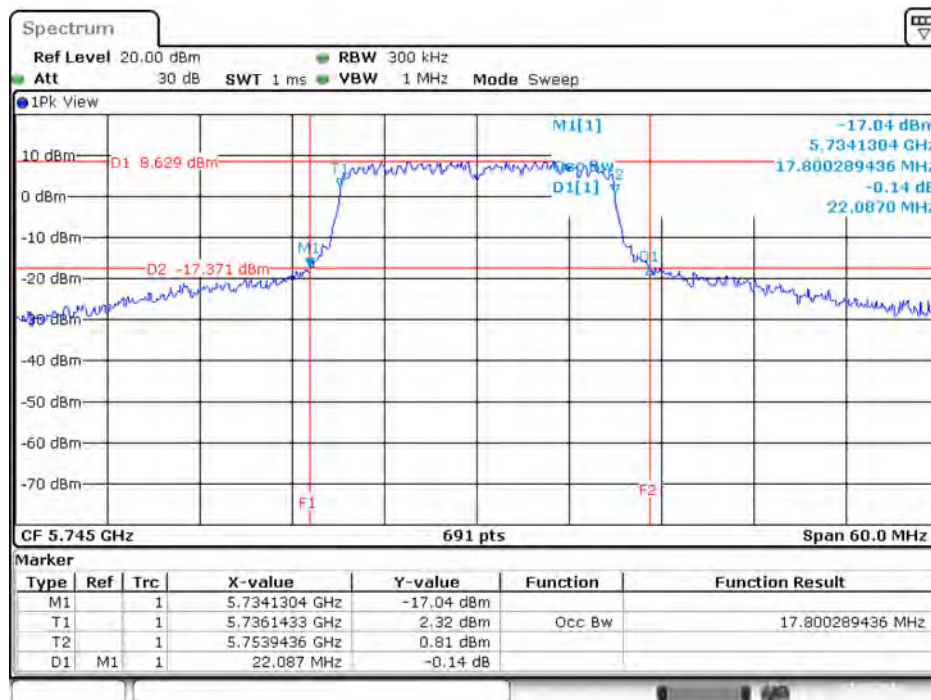
Date: 22.MAY.2016 15:53:46

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5745 MHz



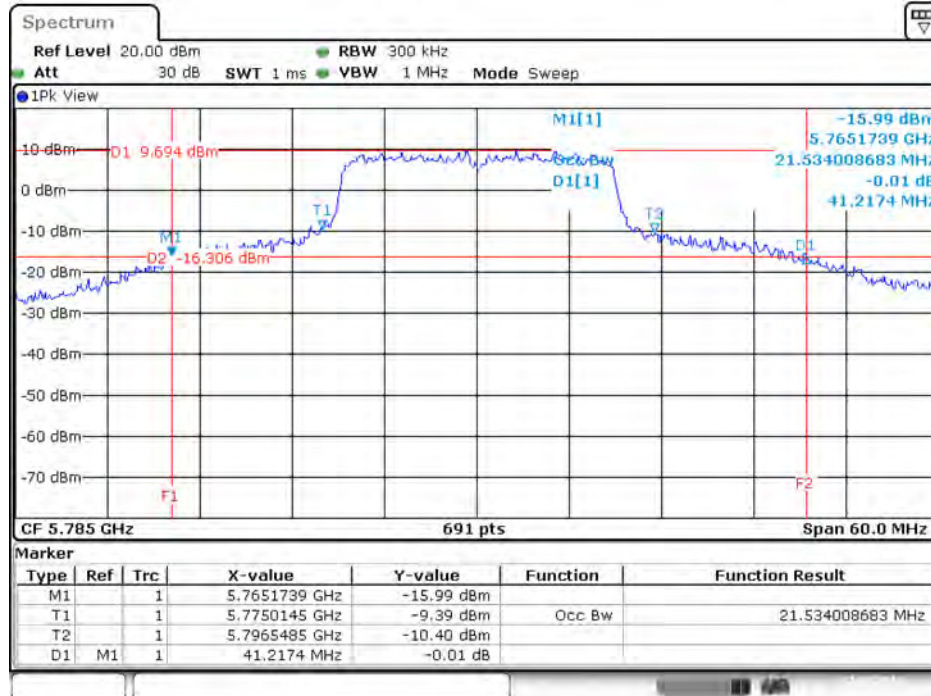
Date: 22.MAY.2016 15:53:33

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5745 MHz



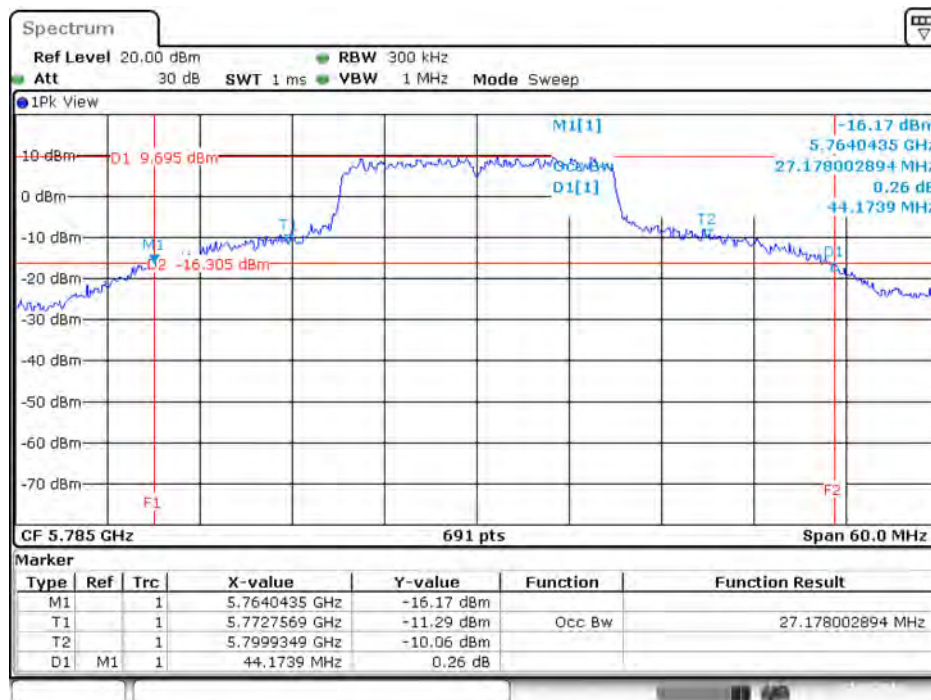
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5785 MHz



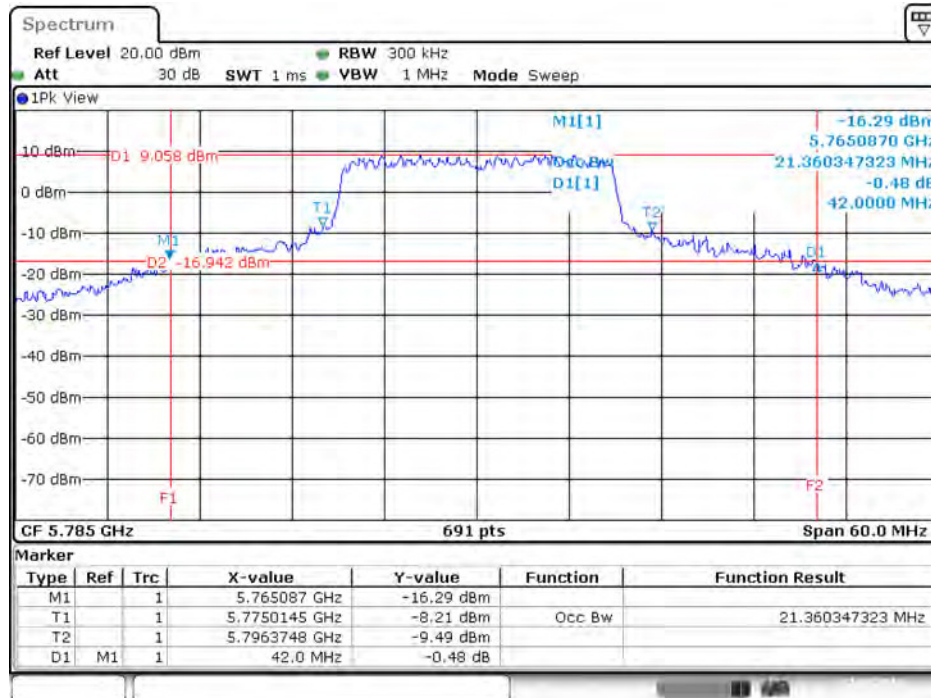
Date: 22.MAY.2016 14:51:54

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5785 MHz



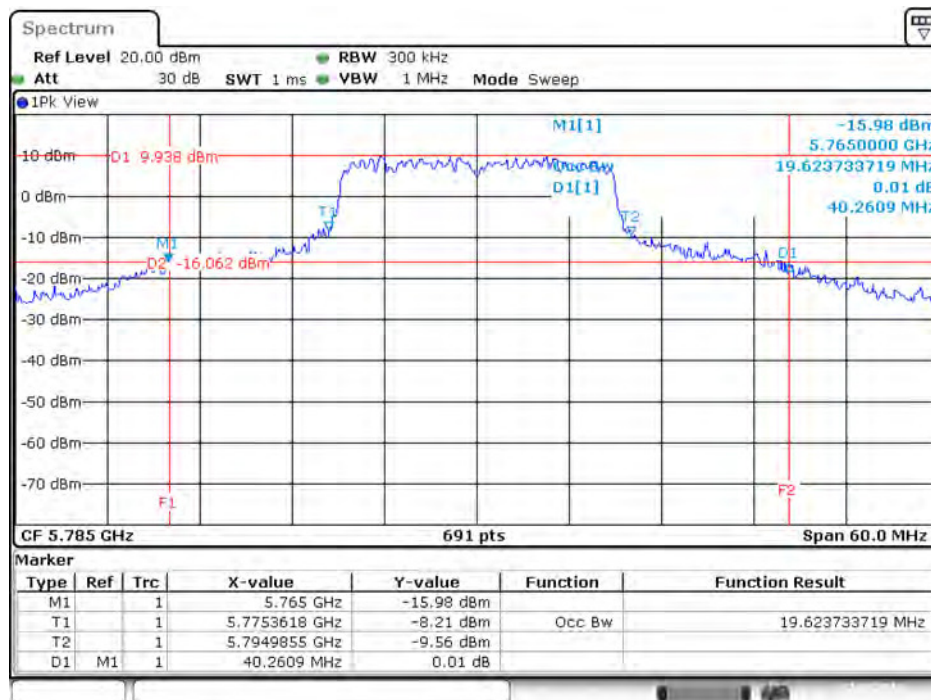
Date: 22.MAY.2016 14:51:43

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5785 MHz



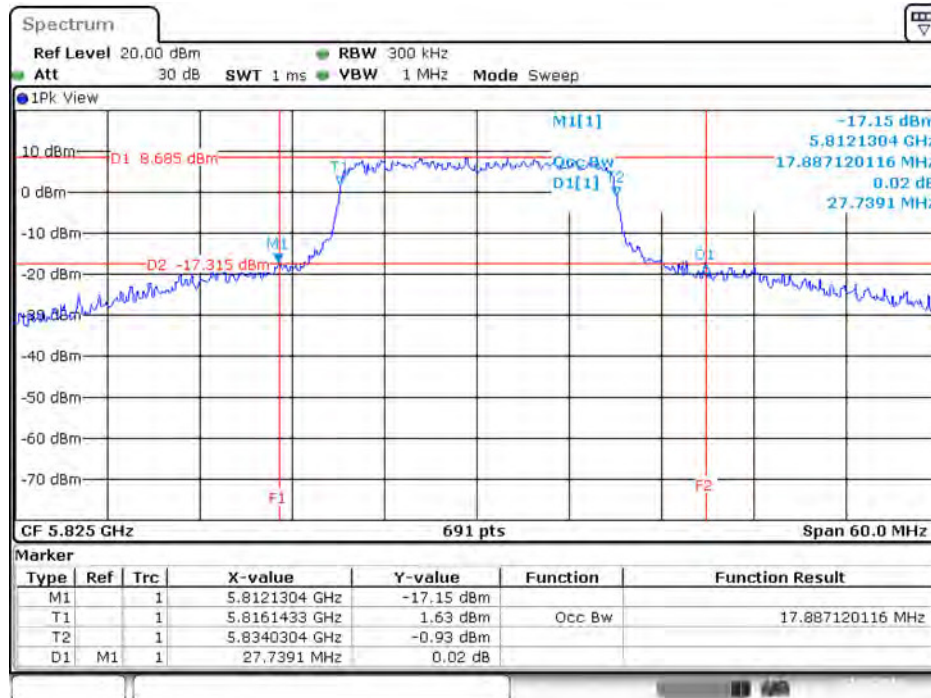
Date: 22.MAY.2016 14:51:32

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5785 MHz



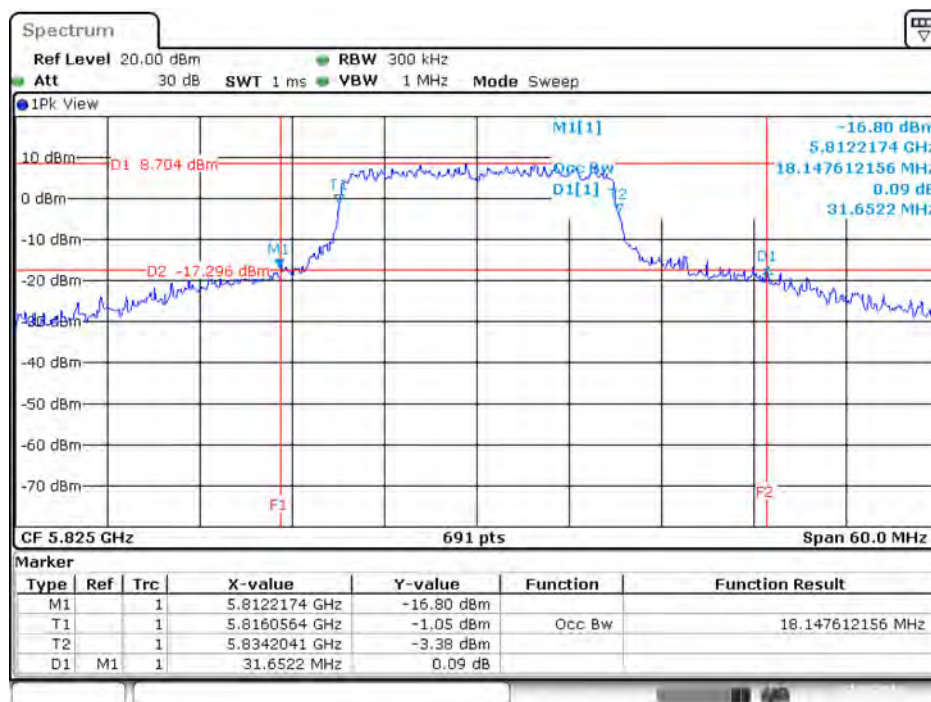
Date: 22.MAY.2016 14:51:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5825 MHz



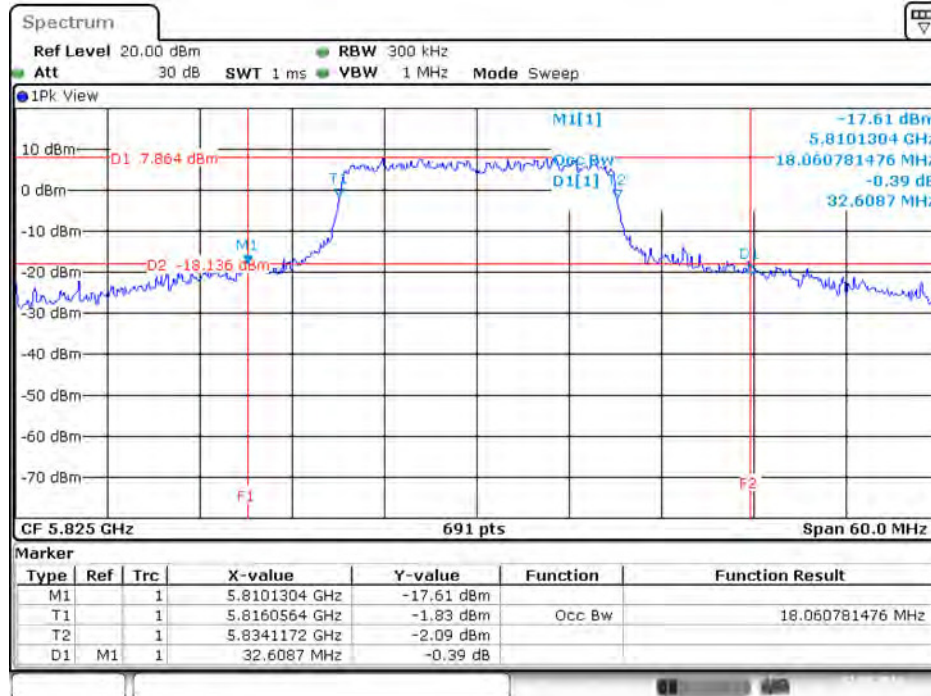
Date: 22.MAY.2016 15:54:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5825 MHz



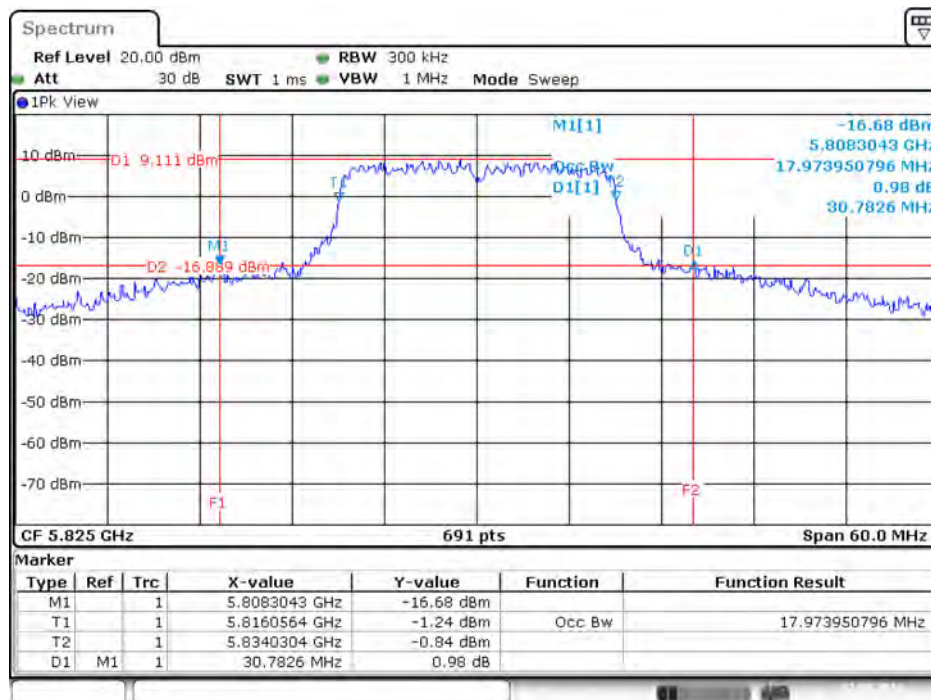
Date: 22.MAY.2016 15:54:38

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5825 MHz



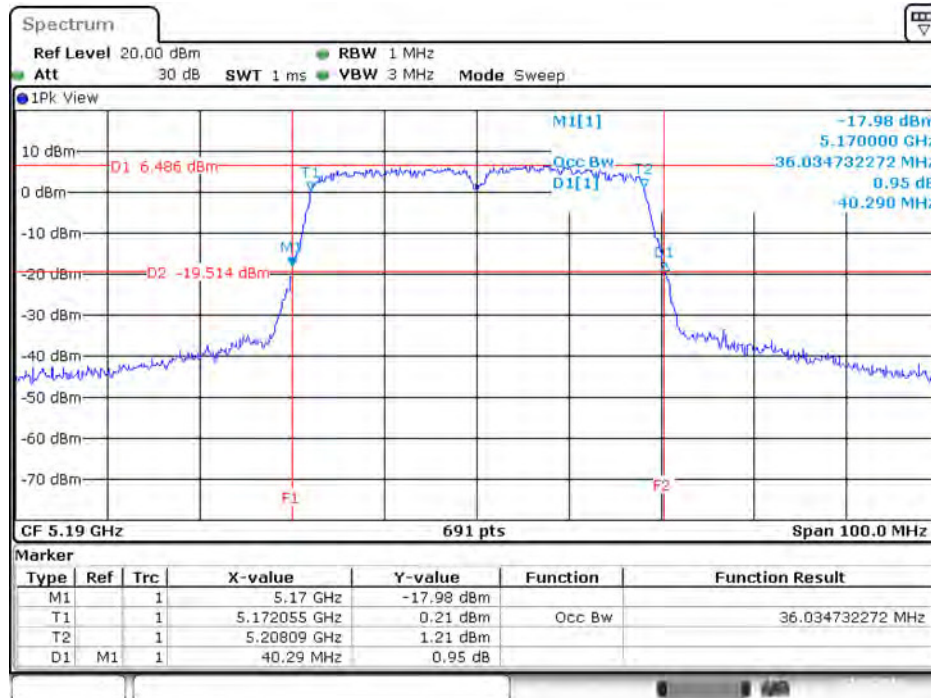
Date: 22.MAY.2016 15:54:50

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5825 MHz



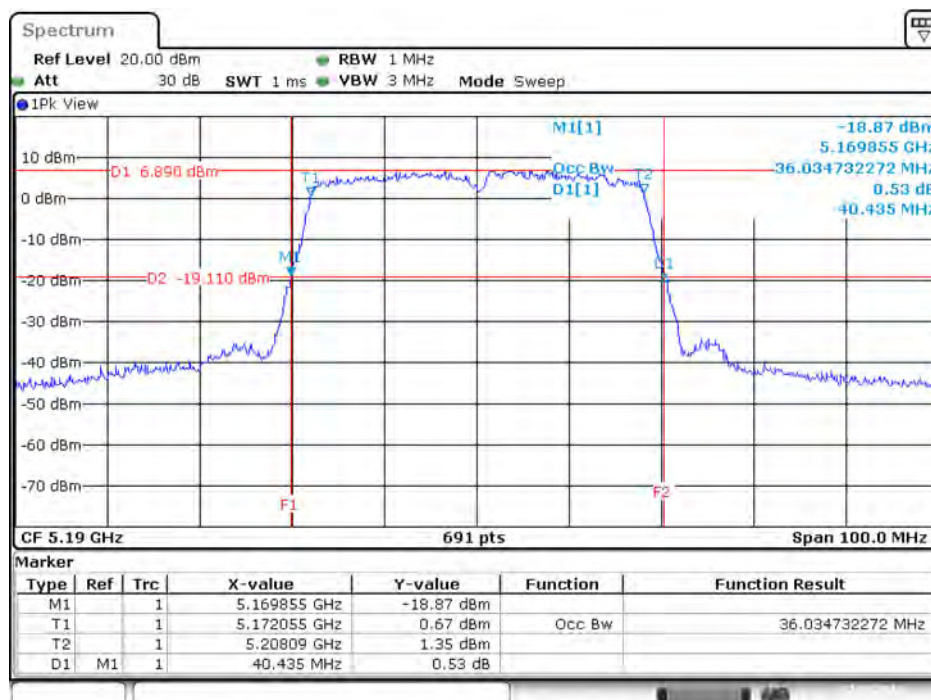
Date: 22.MAY.2016 15:55:01

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5190 MHz



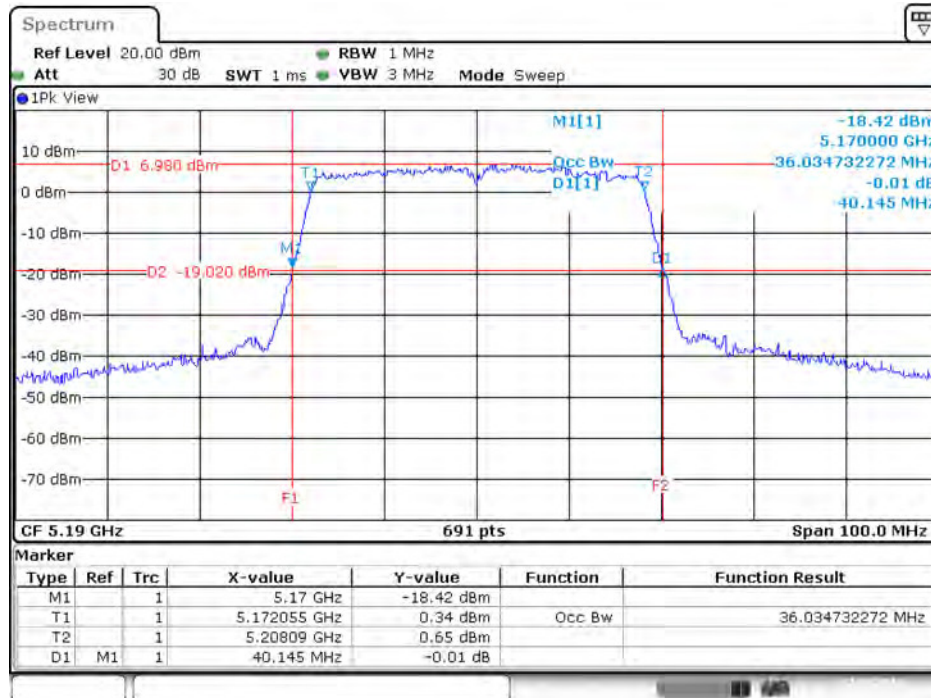
Date: 22.MAY.2016 15:22:52

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5190 MHz



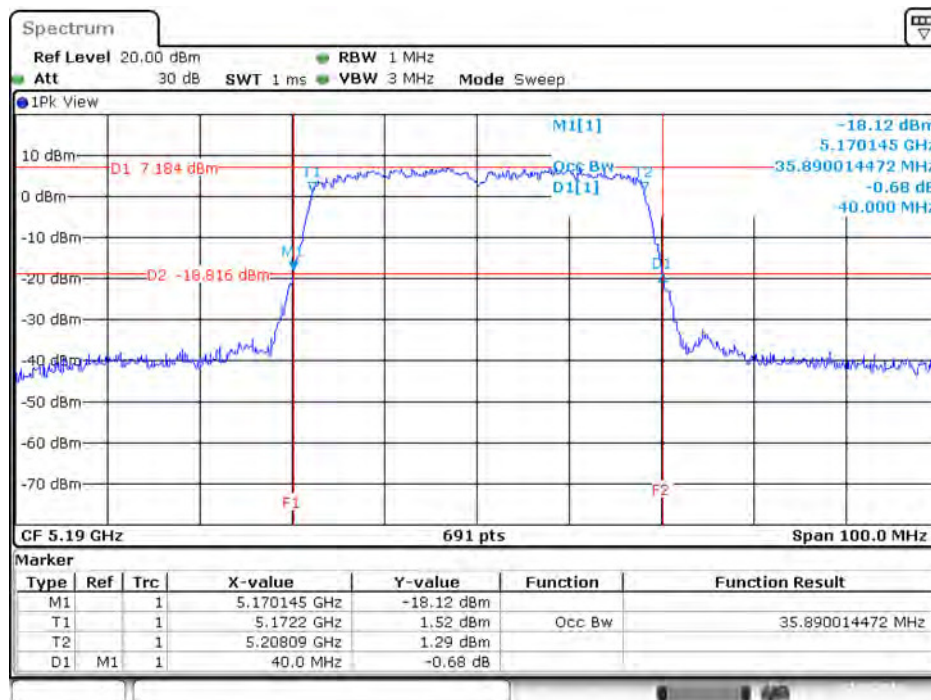
Date: 22.MAY.2016 15:22:42

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5190 MHz



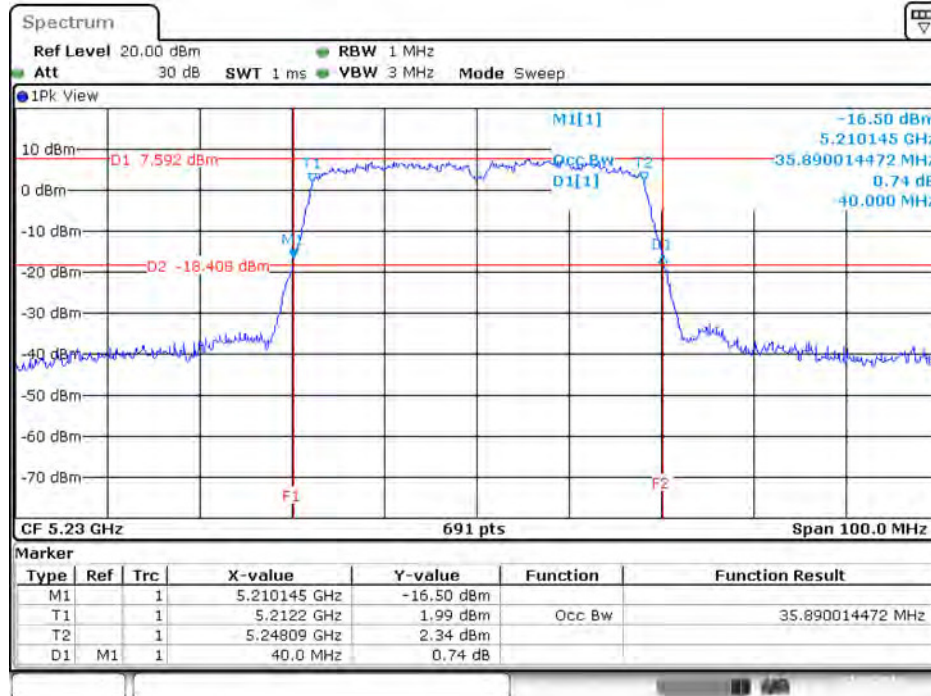
Date: 22.MAY.2016 15:22:31

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5190 MHz



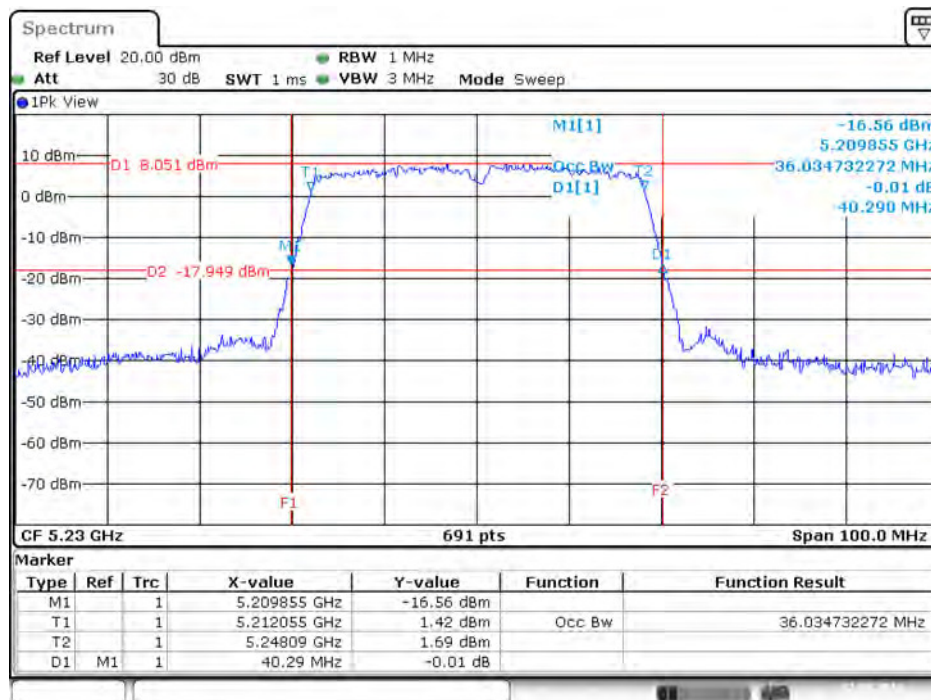
Date: 22.MAY.2016 15:22:05

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5230 MHz



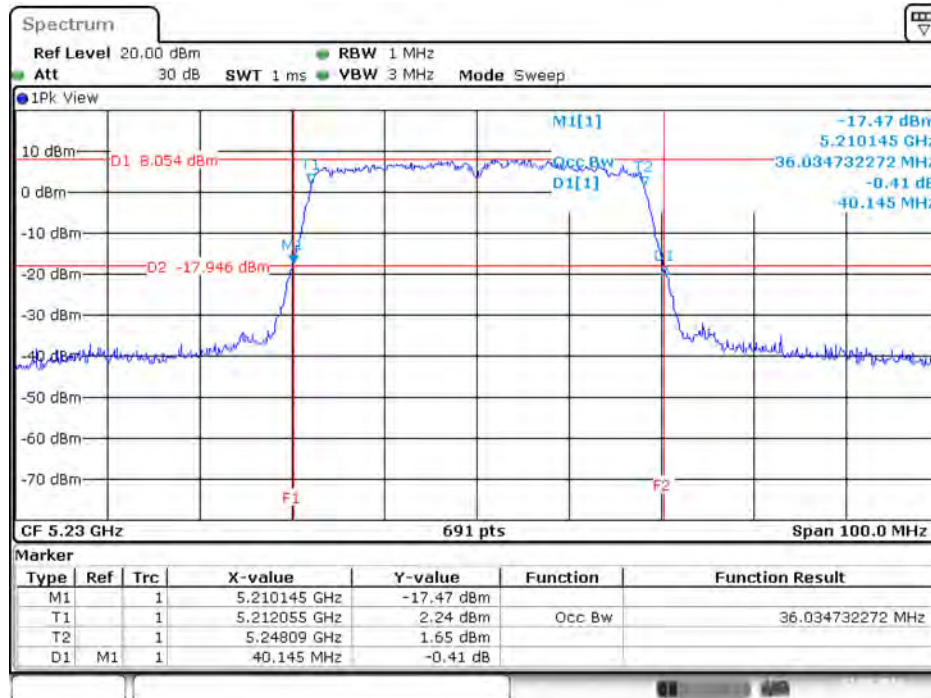
Date: 22.MAY.2016 15:23:23

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5230 MHz



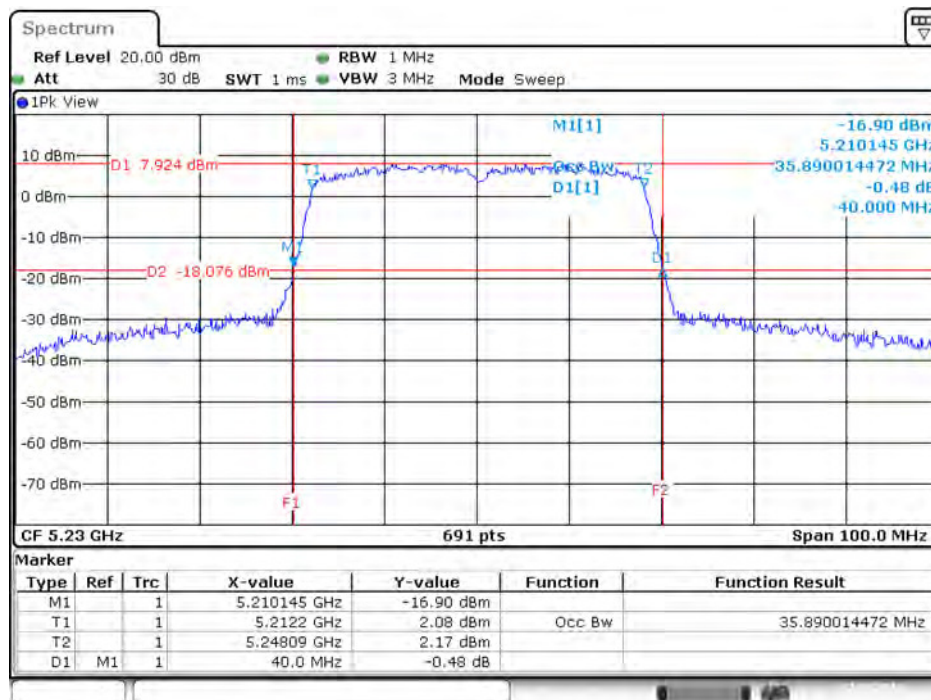
Date: 22.MAY.2016 15:23:36

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5230 MHz



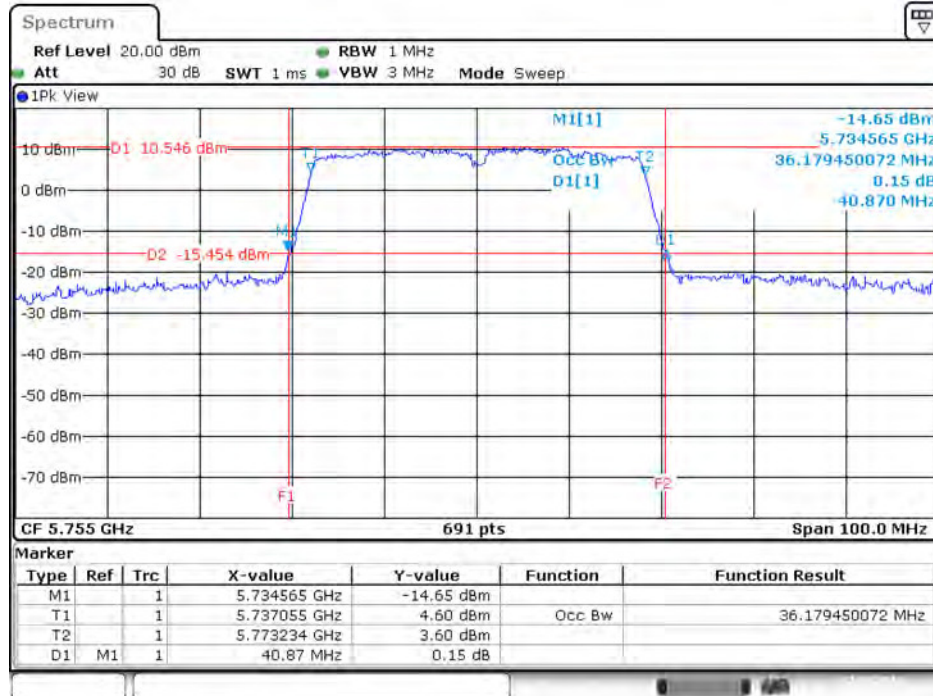
Date: 22.MAY.2016 15:23:50

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5230 MHz



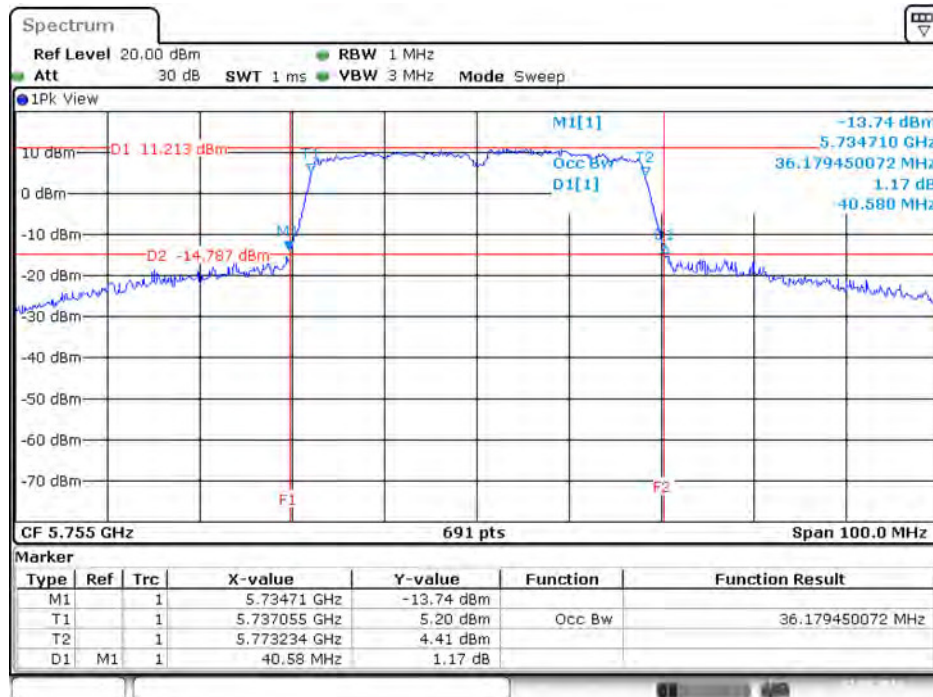
Date: 22.MAY.2016 15:24:03

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5755 MHz



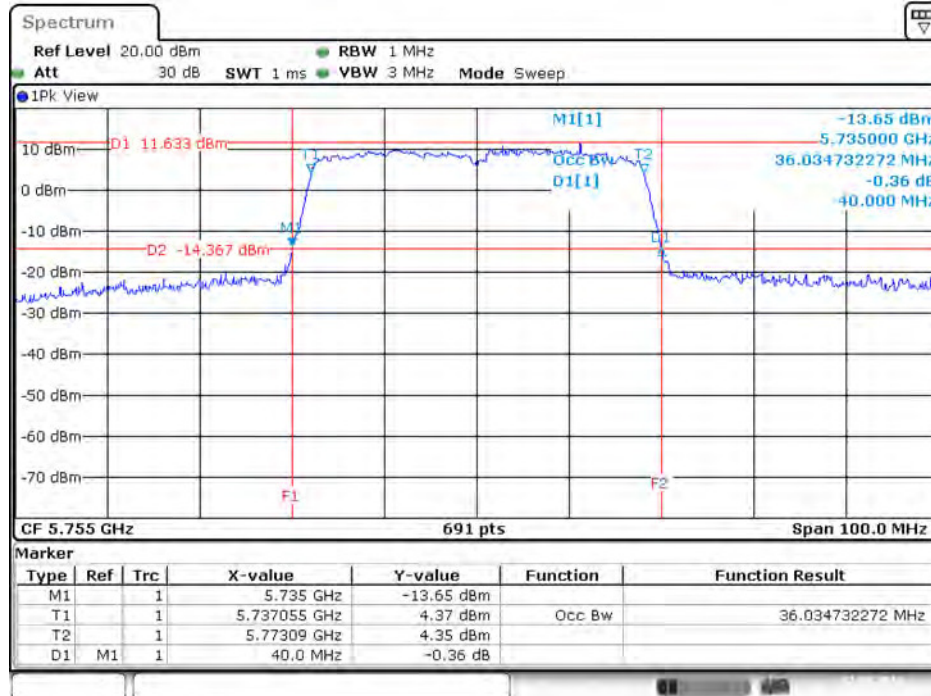
Date: 22.MAY.2016 15:25:21

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5755 MHz



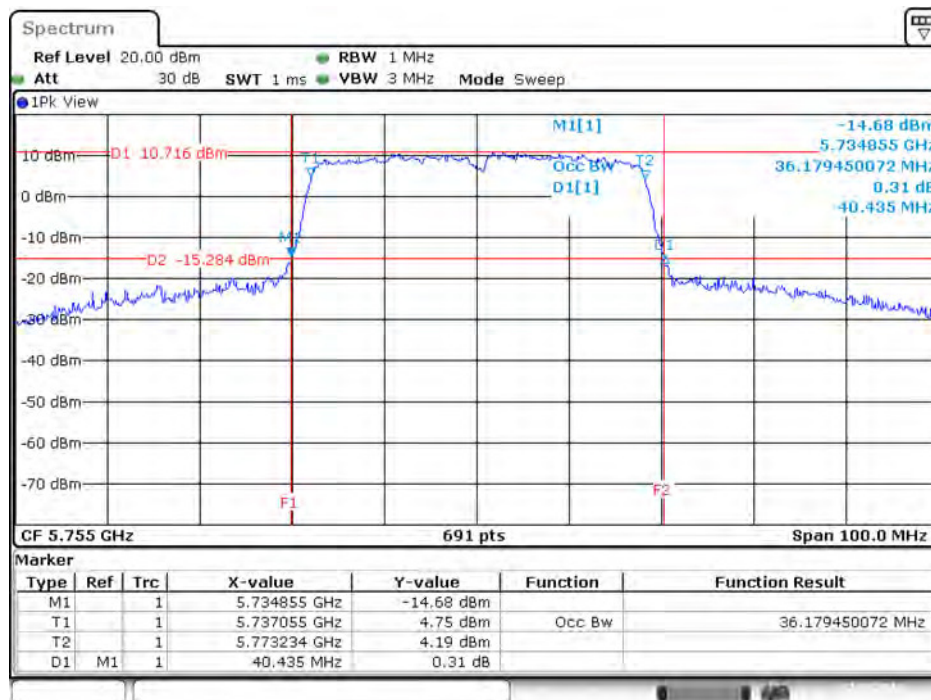
Date: 22.MAY.2016 15:25:09

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5755 MHz



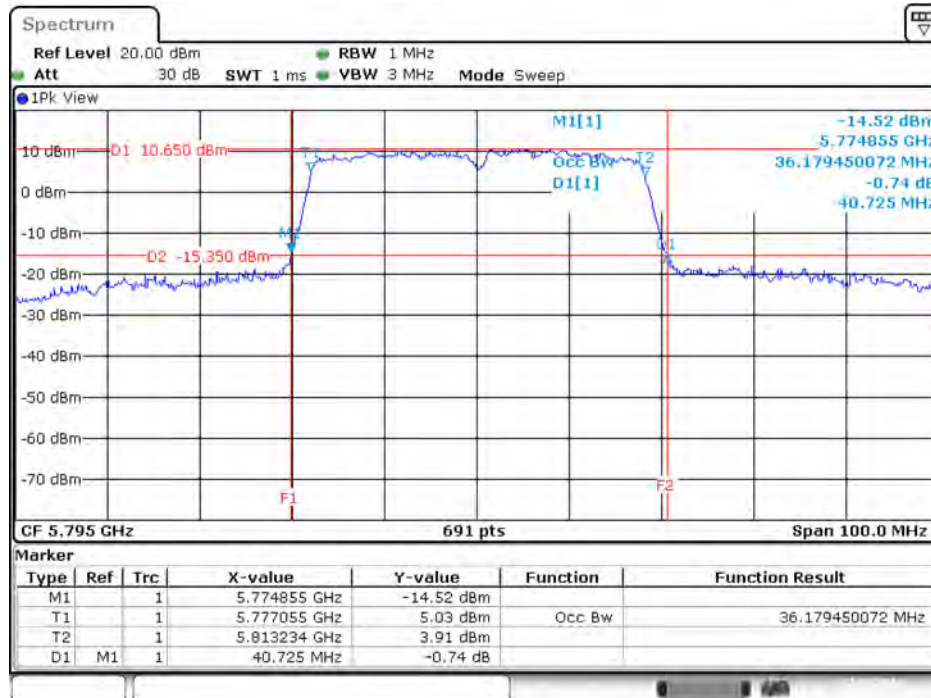
Date: 22.MAY.2016 15:24:58

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5755 MHz



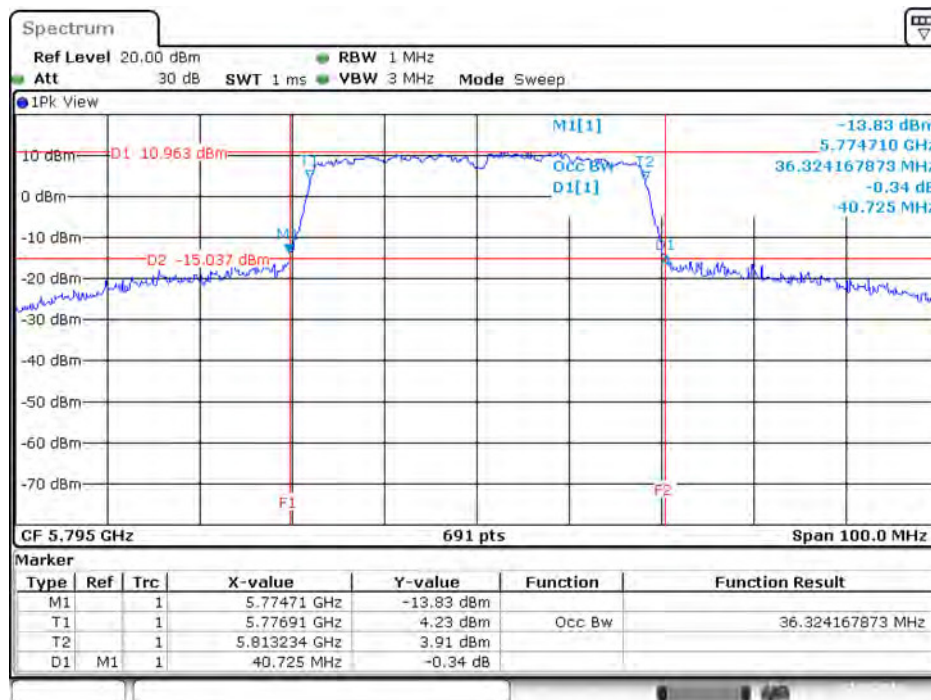
Date: 22.MAY.2016 15:24:40

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5795 MHz



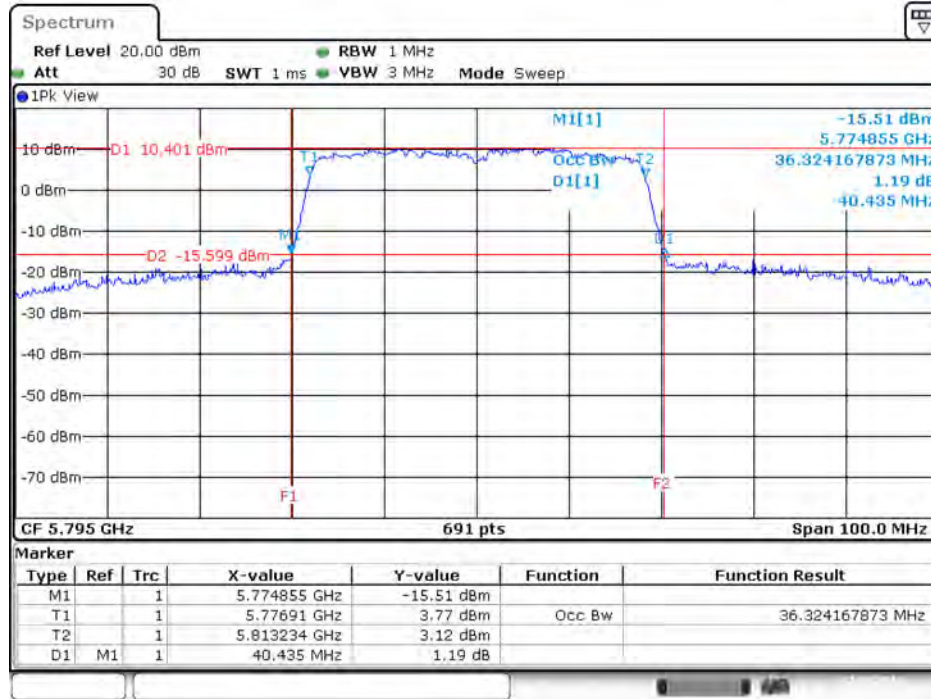
Date: 22.MAY.2016 15:04:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5795 MHz



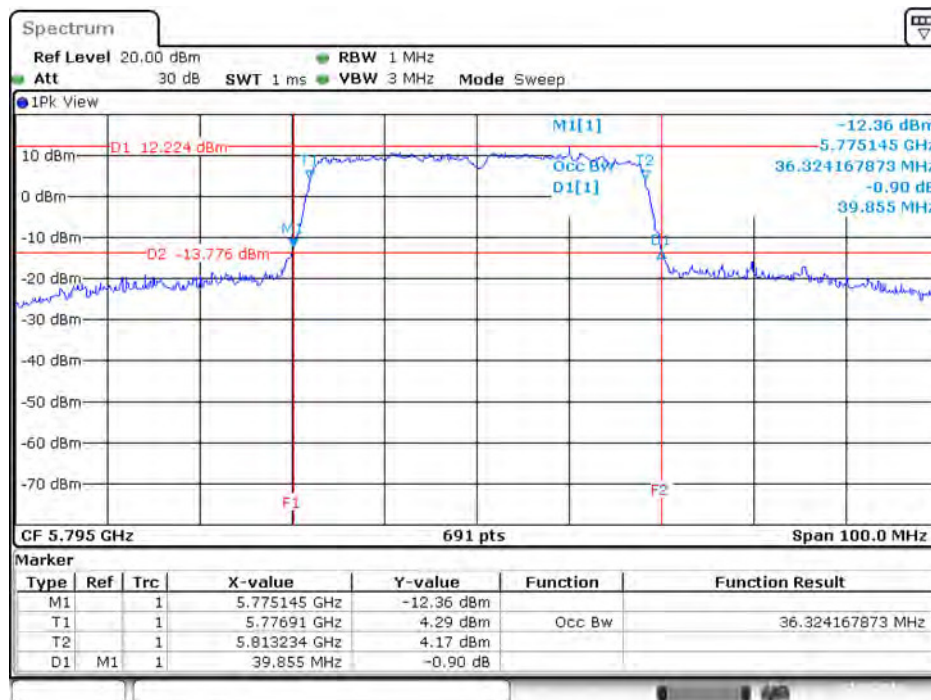
Date: 22.MAY.2016 15:04:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5795 MHz



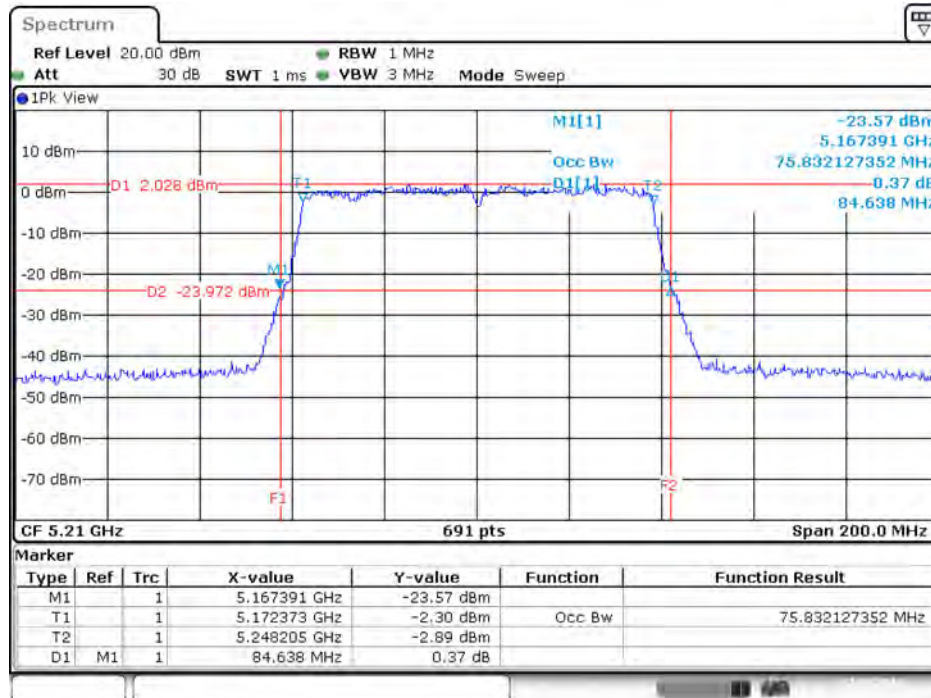
Date: 22.MAY.2016 15:04:16

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5795 MHz



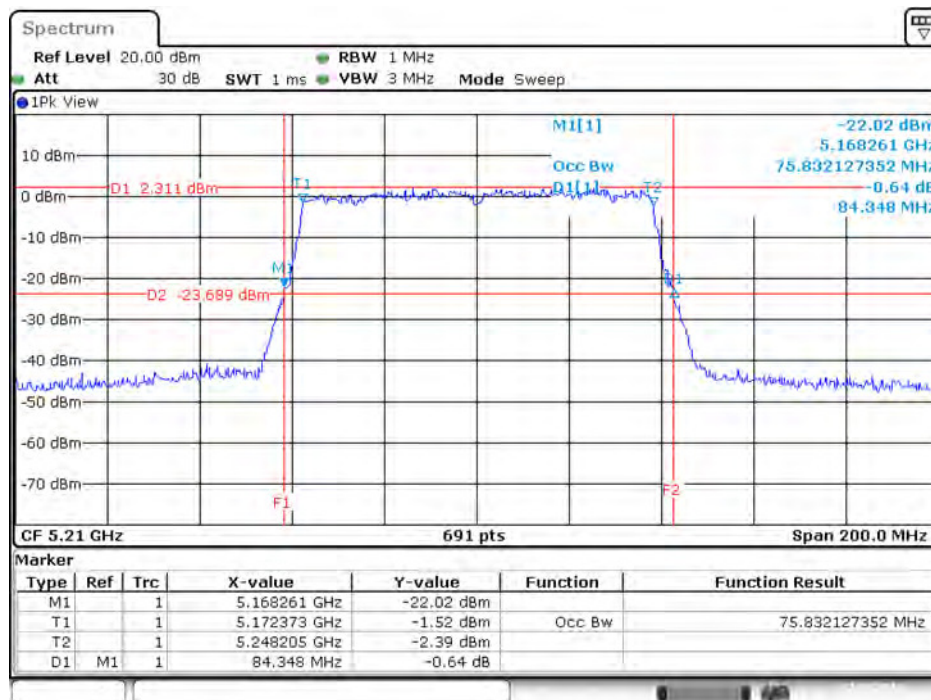
Date: 22.MAY.2016 15:04:03

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5210 MHz



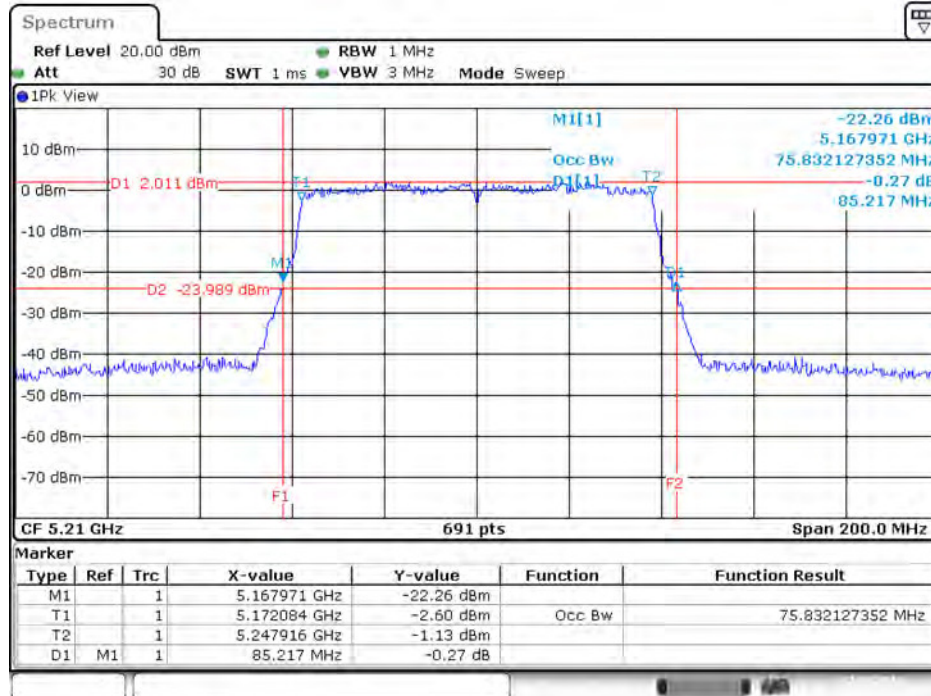
Date: 22.MAY.2016 15:16:09

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5210 MHz



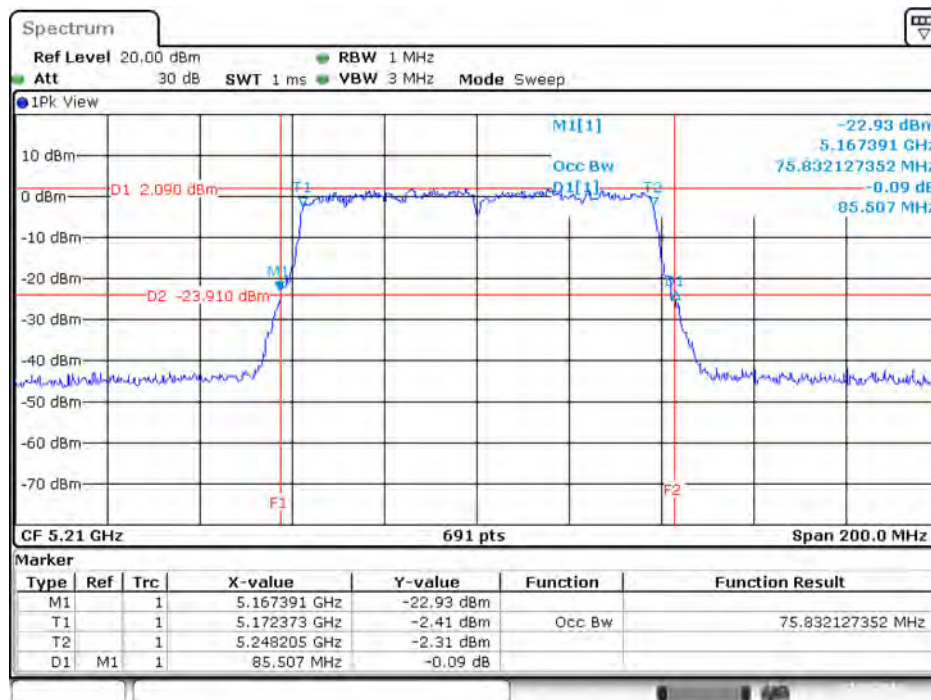
Date: 22.MAY.2016 15:16:22

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5210 MHz



Date: 22.MAY.2016 15:16:33

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 4 / 5210 MHz



Date: 22.MAY.2016 15:16:44