



Product Service

FCC 47 CFR Part 15, Limit Clause 15.407 (g)

Fundamental shall be maintained within the band of operation under all conditions of normal operations as specified in the user's manual.



Product Service

802.11ac 80 MHz Bandwidth, 5210 MHz, 0°C, 4.75 V DC, Frequency Band 1, Frequency Stability Plot



802.11ac 80 MHz Bandwidth, 5210 MHz, 0°C, 5.25 V DC, Frequency Band 1, Frequency Stability Plot





Product Service

802.11ac 80 MHz Bandwidth, 5210 MHz, +70°C, 4.75 V DC Frequency Band 1, Frequency Stability Plot



802.11ac 80 MHz Bandwidth, 5210 MHz, +70°C, 5.25 V DC, Frequency Band 1, Frequency Stability Plot



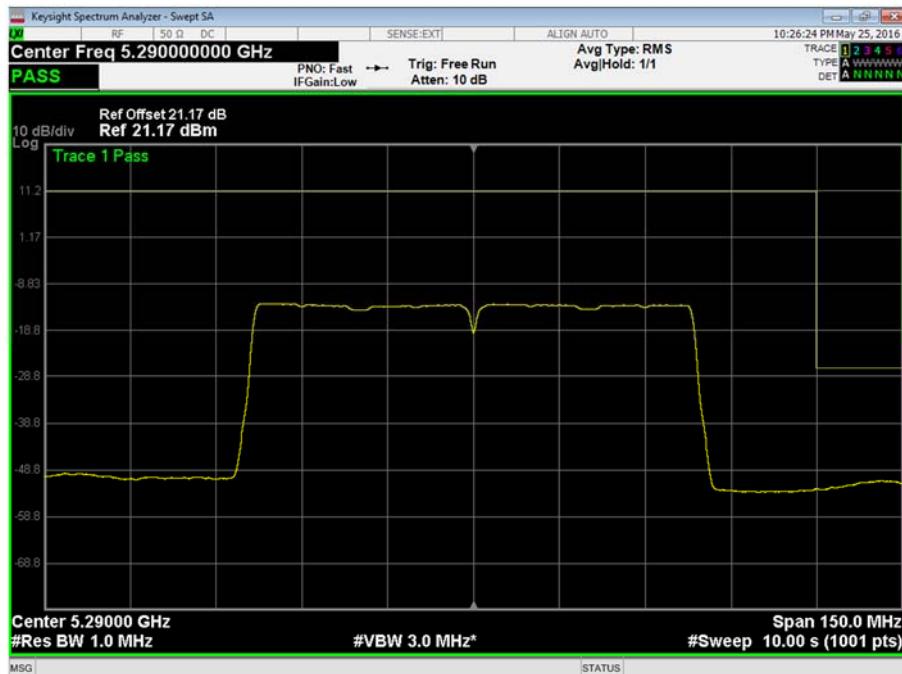


Product Service

802.11ac 80 MHz Bandwidth, 5290 MHz, 0°C, 4.75 V DC Frequency Band 2, Frequency Stability Plot



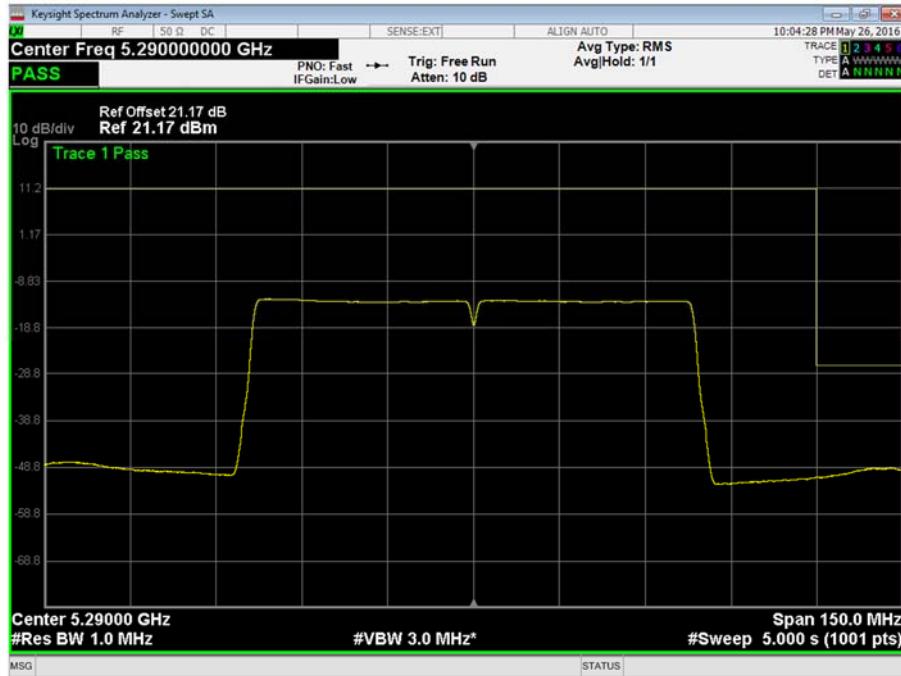
802.11ac 80 MHz Bandwidth, 5290 MHz, 0°C, 5.25 V DC, Frequency Band 2, Frequency Stability Plot





Product Service

802.11ac 80 MHz Bandwidth, 5290 MHz, +70°C, 4.75 V DC Frequency Band 2, Frequency Stability Plot



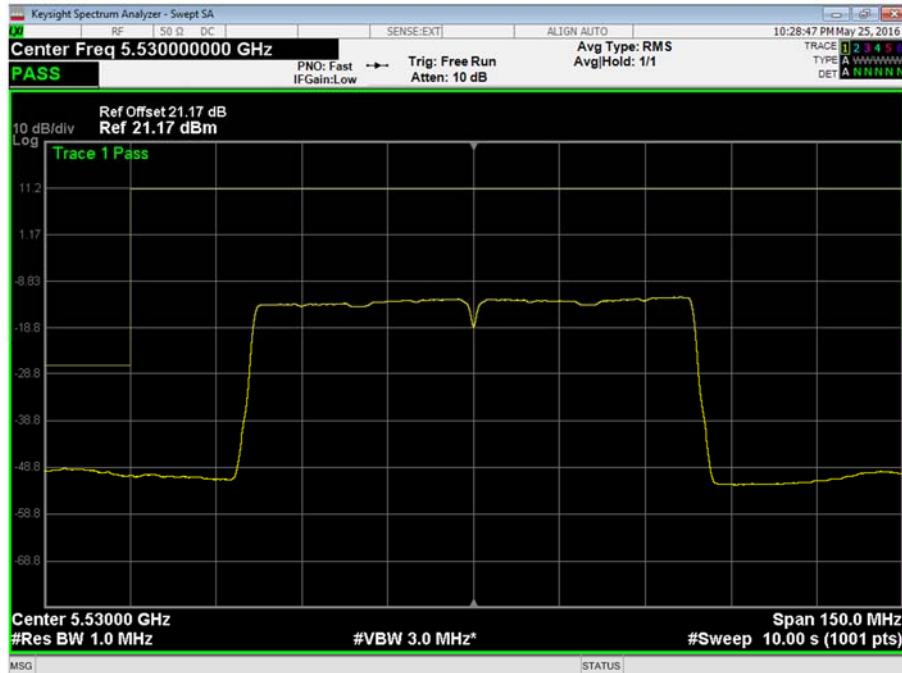
802.11ac 80 MHz Bandwidth, 5290 MHz, +70°C, 5.25 V DC, Frequency Band 2, Frequency Stability Plot



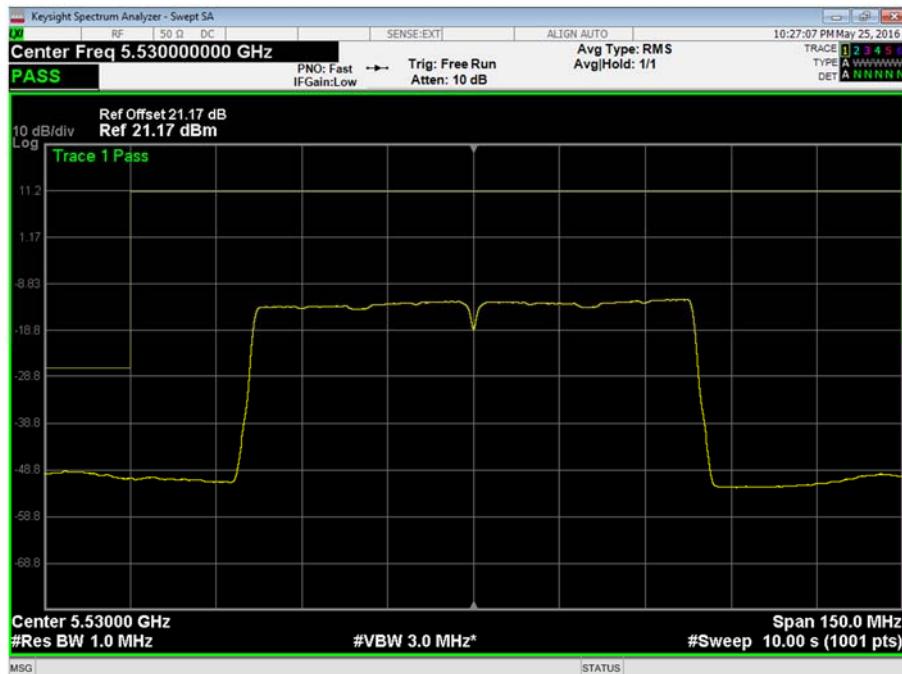


Product Service

802.11ac 80 MHz Bandwidth, 5530 MHz, 0°C, 4.75 V DC, Frequency Band 3, Frequency Stability Plot



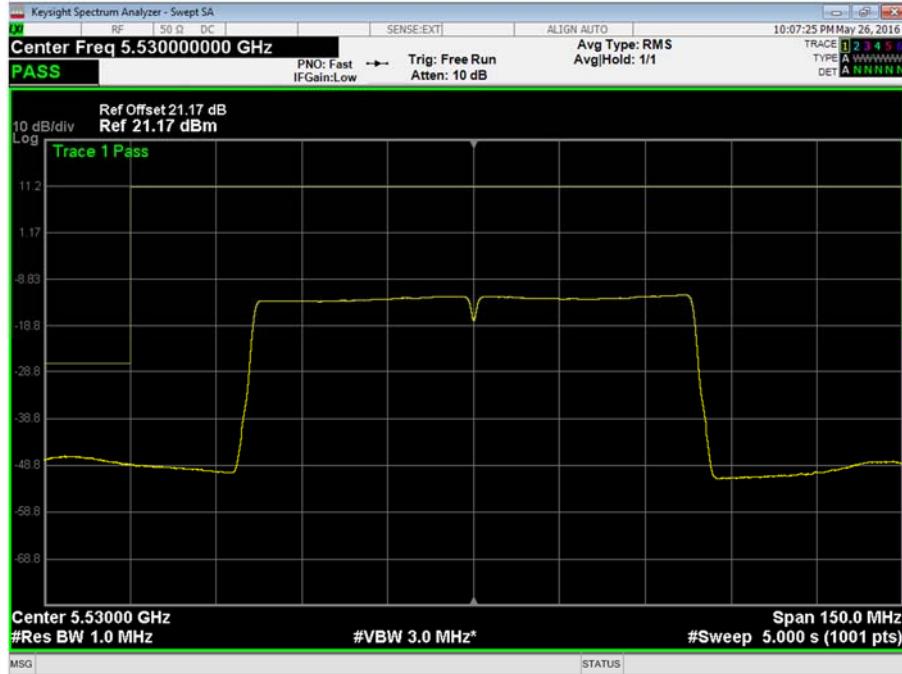
802.11ac 80 MHz Bandwidth, 5530 MHz, 0°C, 5.25 V DC, Frequency Band 3, Frequency Stability Plot



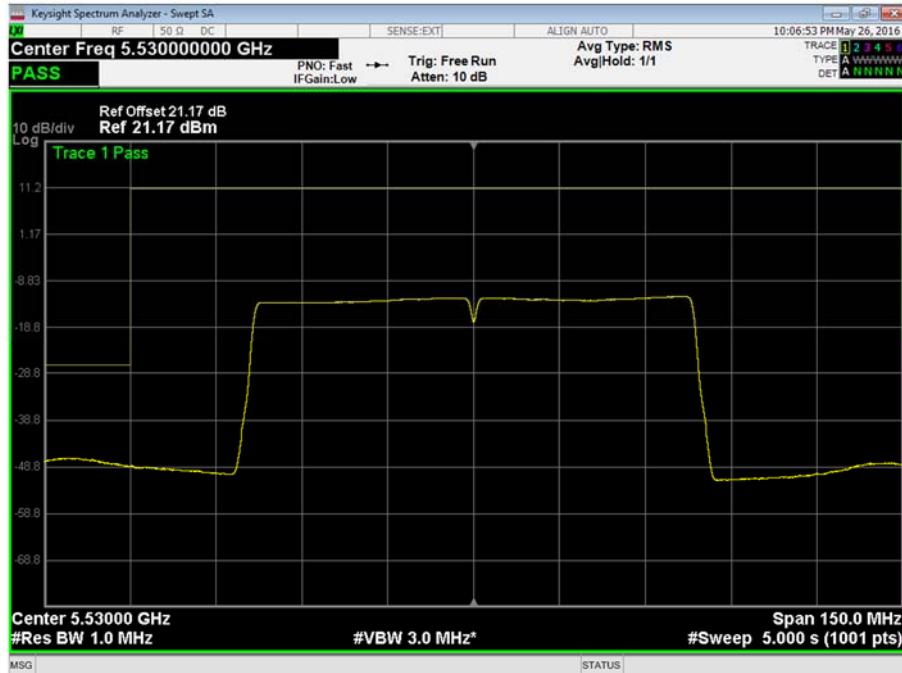


Product Service

802.11ac 80 MHz Bandwidth, 5530 MHz, +70°C, 4.75 V DC Frequency Band 3, Frequency Stability Plot



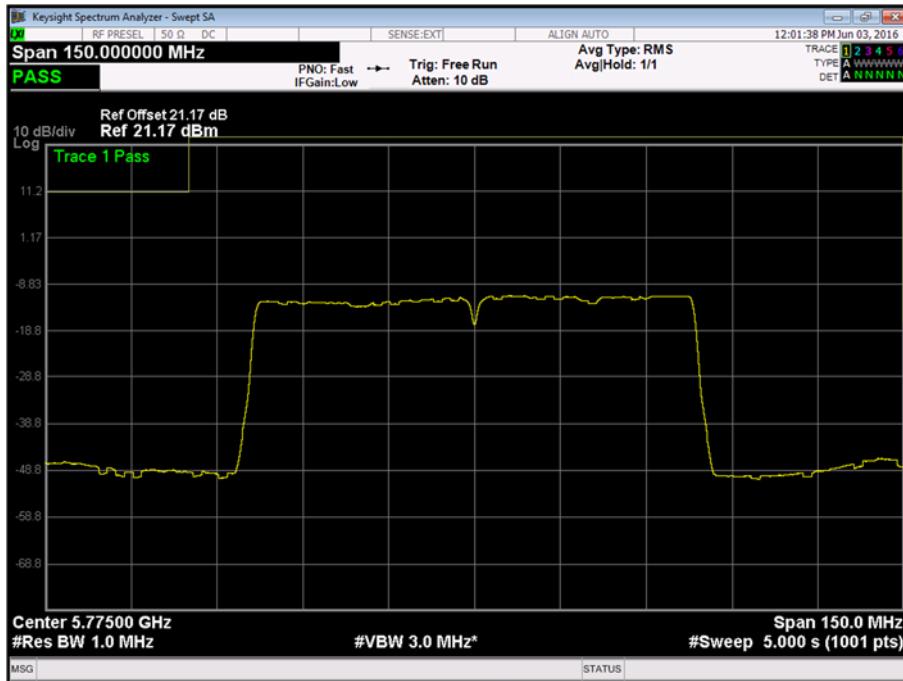
802.11ac 80 MHz Bandwidth, 5530 MHz, +70°C, 5.25 V DC, Frequency Band 3, Frequency Stability Plot



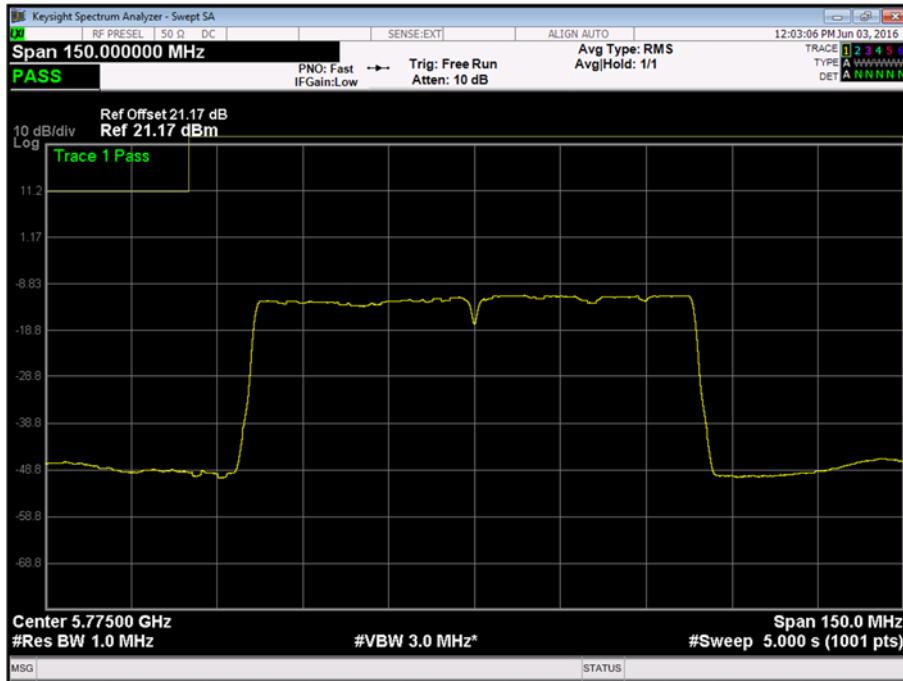


Product Service

802.11ac 80 MHz Bandwidth, 5775 MHz, 0°C, 4.75 V DC Frequency Band 4, Frequency Stability Plot



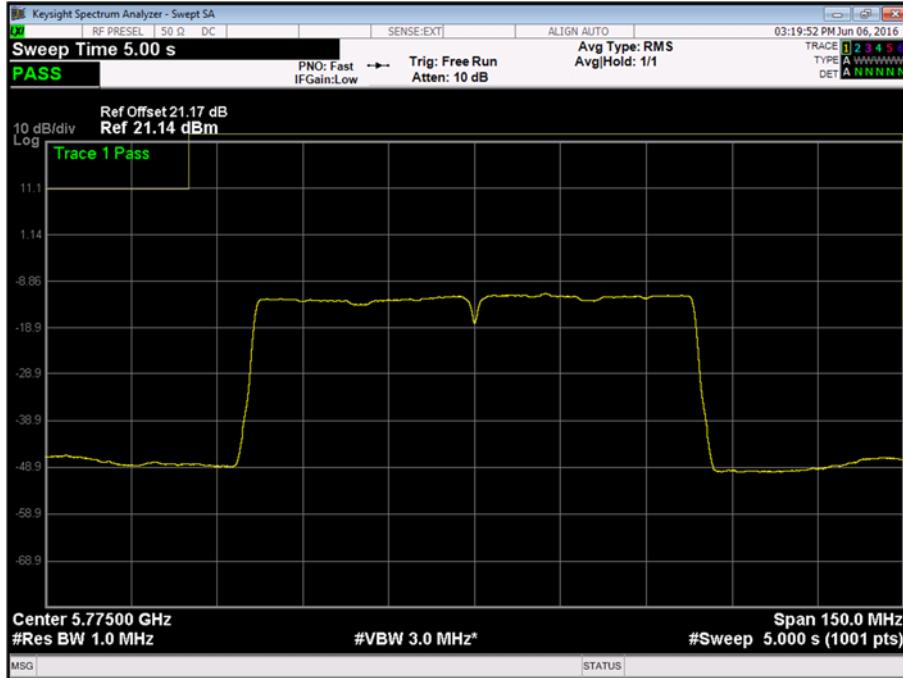
802.11ac 80 MHz Bandwidth, 5775 MHz, 0°C, 5.25 V DC, Frequency Band 4, Frequency Stability Plot



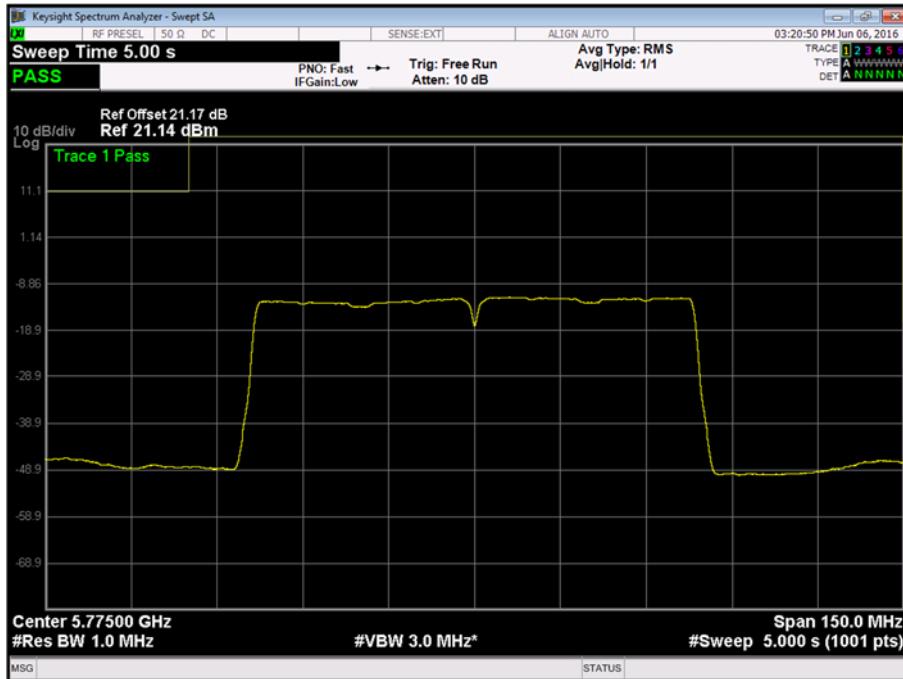


Product Service

802.11ac 80 MHz Bandwidth, 5775 MHz, +70°C, 4.75 V DC Frequency Band 4, Frequency Stability Plot



802.11ac 80 MHz Bandwidth, 5775 MHz, +70°C, 5.25 V DC, Frequency Band 4, Frequency Stability Plot





Product Service

FCC 47 CFR Part 15, Limit Clause 15.407 (g)

Fundamental shall be maintained within the band of operation under all conditions of normal operations as specified in the user's manual.



Product Service

802.11n 20 MHz Bandwidth, 5180 MHz, 0°C, 4.75 V DC, Frequency Band 1, Frequency Stability Plot



802.11n 20 MHz Bandwidth, 5180 MHz, 0°C, 5.25 V DC, Frequency Band 1, Frequency Stability Plot





Product Service

802.11n 20 MHz Bandwidth, 5180 MHz, +70°C, 4.75 V DC Frequency Band 1, Frequency Stability Plot



802.11n 20 MHz Bandwidth, 5180 MHz, +70°C, 5.25 V DC, Frequency Band 1, Frequency Stability Plot





Product Service

802.11n 20 MHz Bandwidth, 5320 MHz, 0°C, 4.75 V DC Frequency Band 2, Frequency Stability Plot



802.11n 20 MHz Bandwidth, 5320 MHz, 0°C, 5.25 V DC, Frequency Band 2, Frequency Stability Plot





Product Service

802.11n 20 MHz Bandwidth, 5320 MHz, +70°C, 4.75 V DC Frequency Band 2, Frequency Stability Plot



802.11n 20 MHz Bandwidth, 5320 MHz, +70°C, 5.25 V DC, Frequency Band 2, Frequency Stability Plot





Product Service

802.11n 20 MHz Bandwidth, 5500 MHz, 0°C, 4.75 V DC, Frequency Band 3, Frequency Stability Plot



802.11n 20 MHz Bandwidth, 5500 MHz, 0°C, 5.25 V DC, Frequency Band 3, Frequency Stability Plot





Product Service

802.11n 20 MHz Bandwidth, 5500 MHz, +70°C, 4.75 V DC Frequency Band 3, Frequency Stability Plot



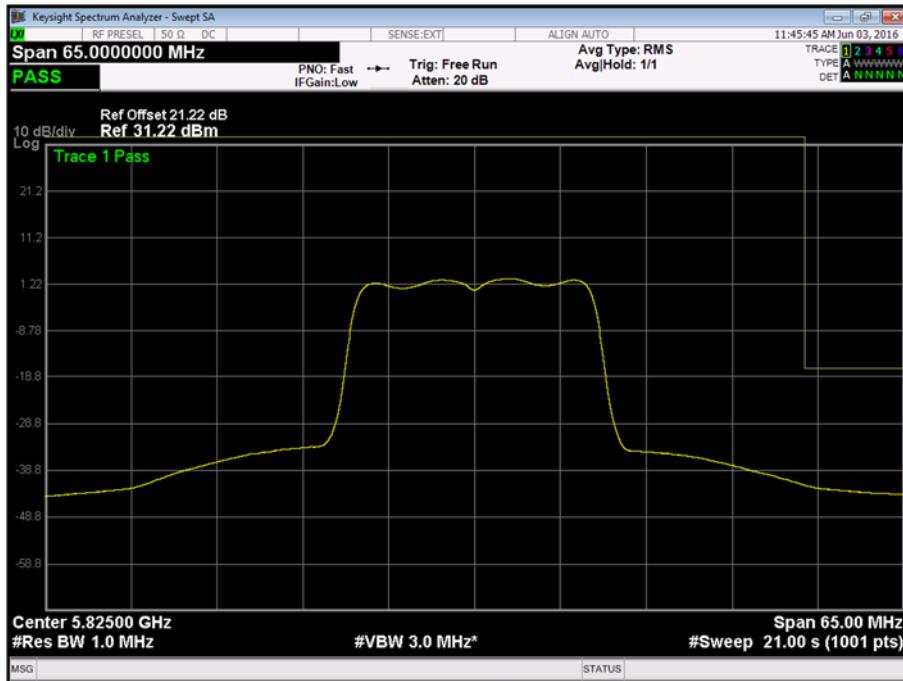
802.11n 20 MHz Bandwidth, 5500 MHz, +70°C, 5.25 V DC, Frequency Band 3, Frequency Stability Plot



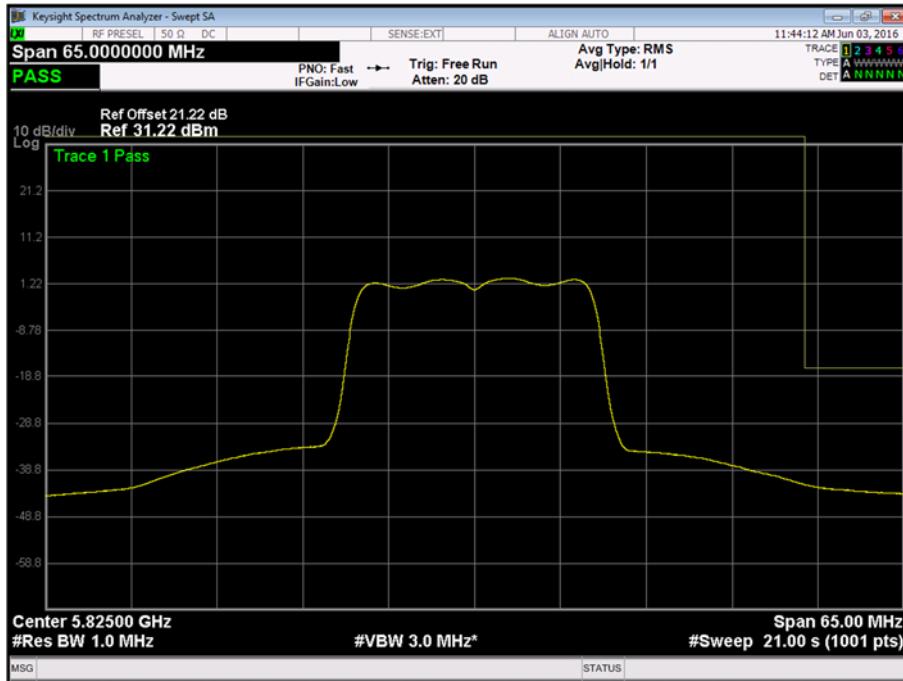


Product Service

802.11n 20 MHz Bandwidth, 5825 MHz, 0°C, 4.75 V DC Frequency Band 4, Frequency Stability Plot



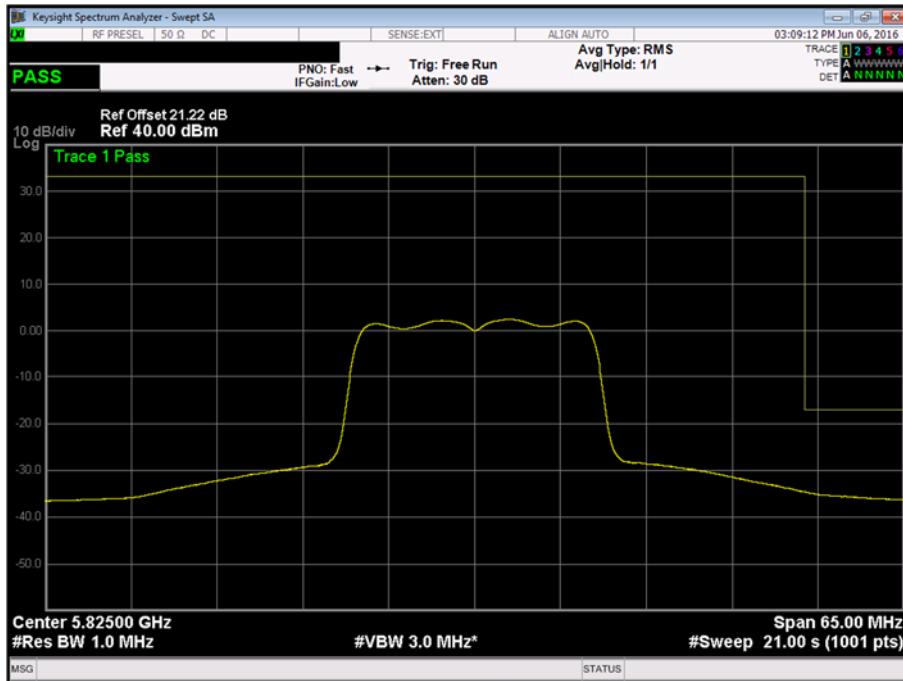
802.11n 20 MHz Bandwidth, 5825 MHz, 0°C, 5.25 V DC, Frequency Band 4, Frequency Stability Plot



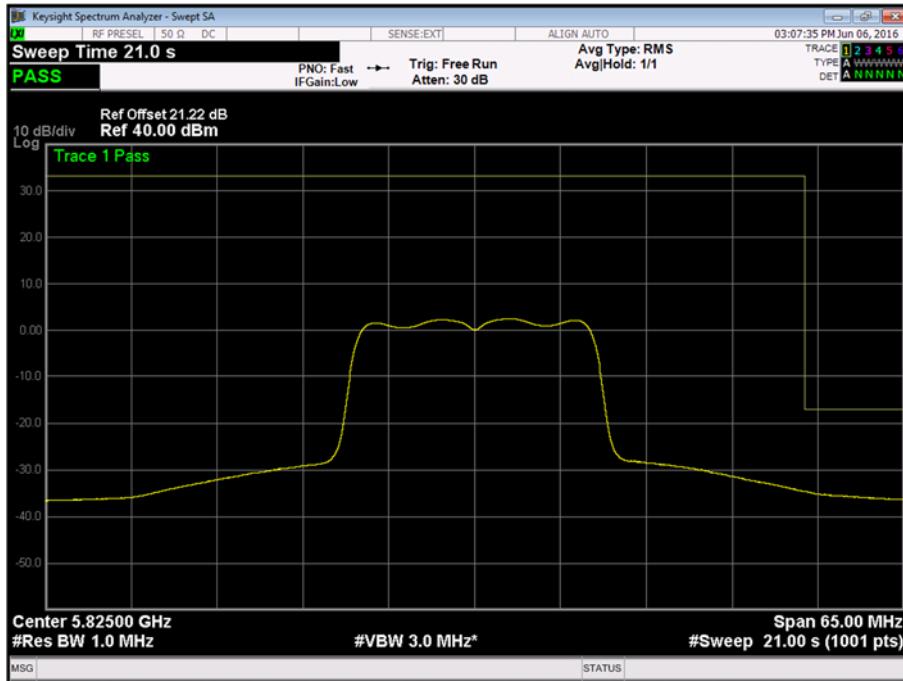


Product Service

802.11n 20 MHz Bandwidth, 5825 MHz, +70°C, 4.75 V DC Frequency Band 4, Frequency Stability Plot



802.11n 20 MHz Bandwidth, 5825 MHz, +70°C, 5.25 V DC, Frequency Band 4, Frequency Stability Plot





Product Service

FCC 47 CFR Part 15, Limit Clause 15.407 (g)

Fundamental shall be maintained within the band of operation under all conditions of normal operations as specified in the user's manual.

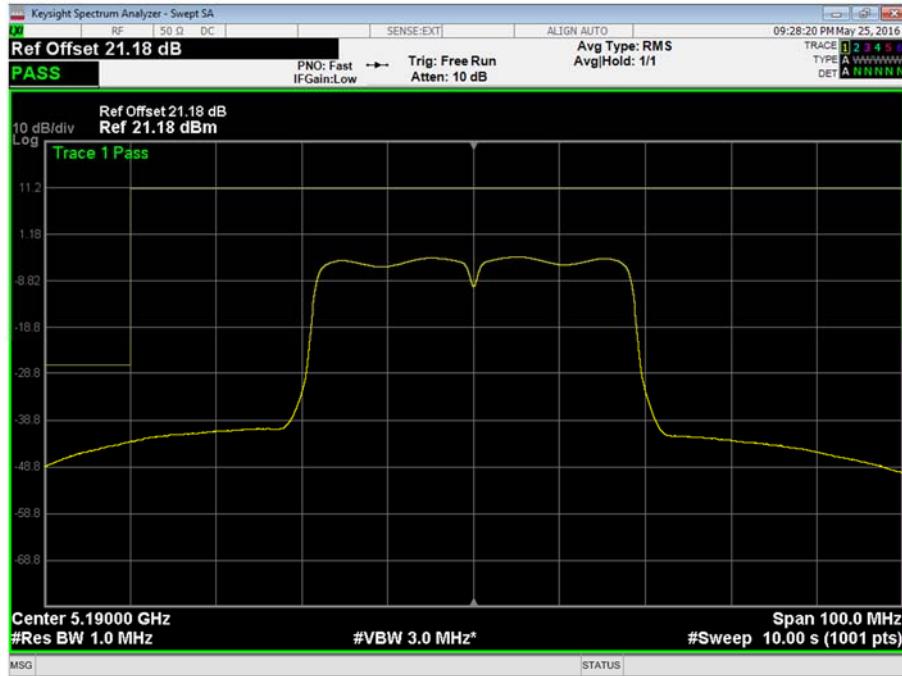


Product Service

802.11n 40 MHz Bandwidth, 5190 MHz, 0°C, 4.75 V DC, Frequency Band 1, Frequency Stability Plot



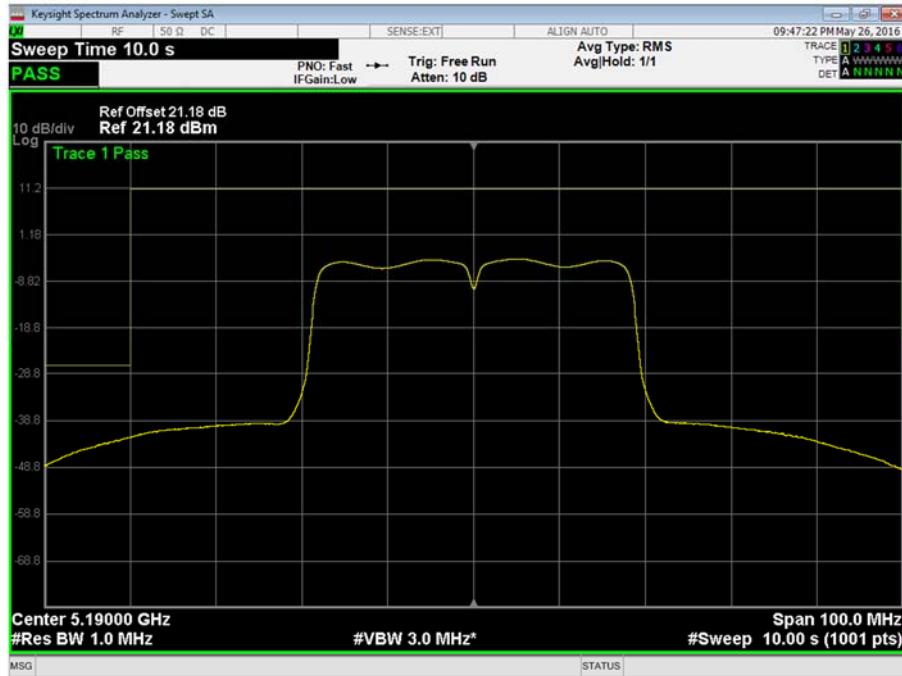
802.11n 40 MHz Bandwidth, 5190 MHz, 0°C, 5.25 V DC, Frequency Band 1, Frequency Stability Plot



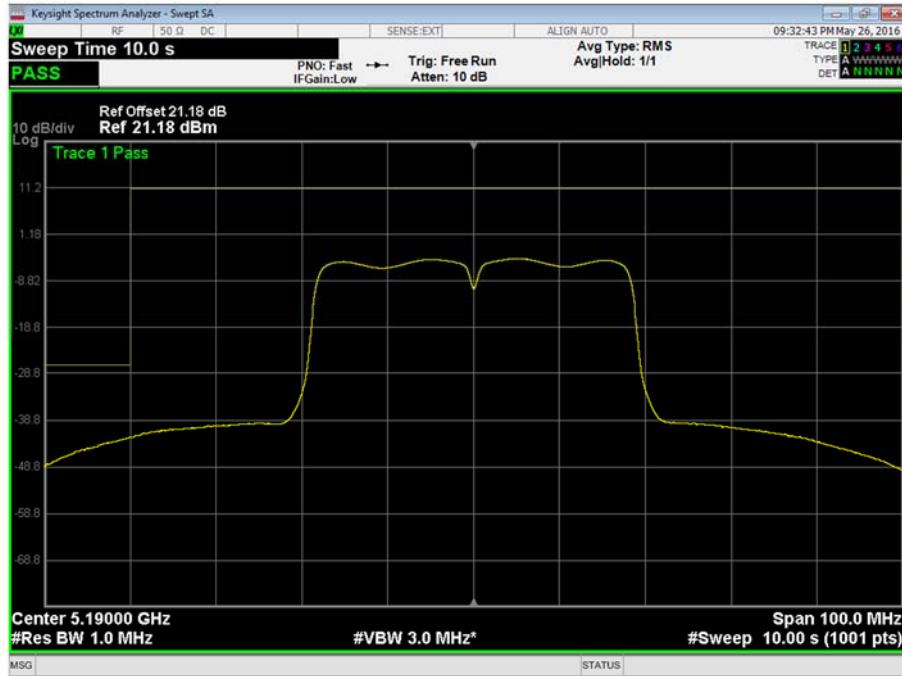


Product Service

802.11n 40 MHz Bandwidth, 5190 MHz, +70°C, 4.75 V DC Frequency Band 1, Frequency Stability Plot



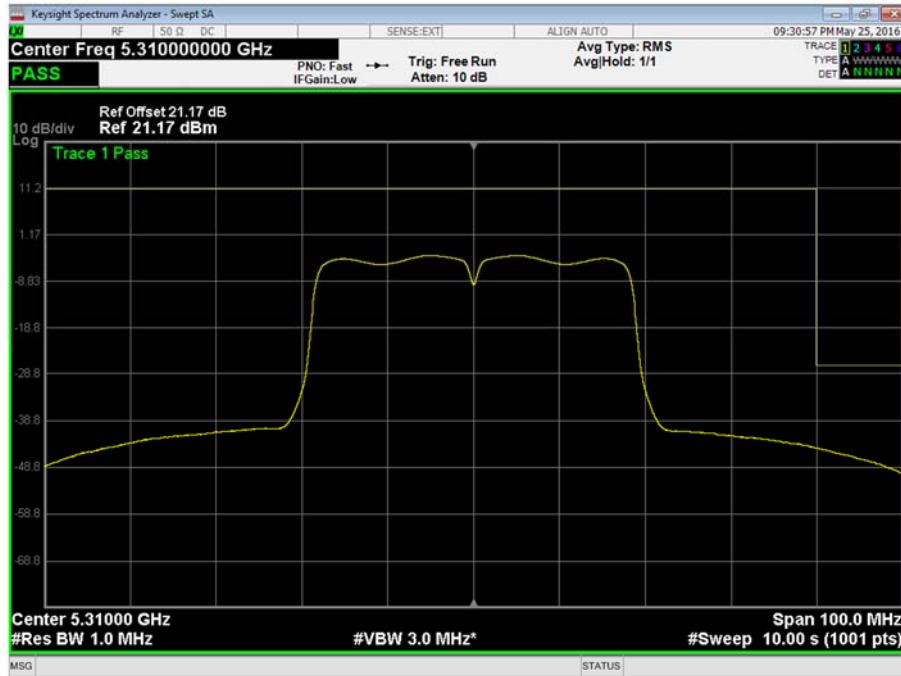
802.11n 40 MHz Bandwidth, 5190 MHz, +70°C, 5.25 V DC, Frequency Band 1, Frequency Stability Plot



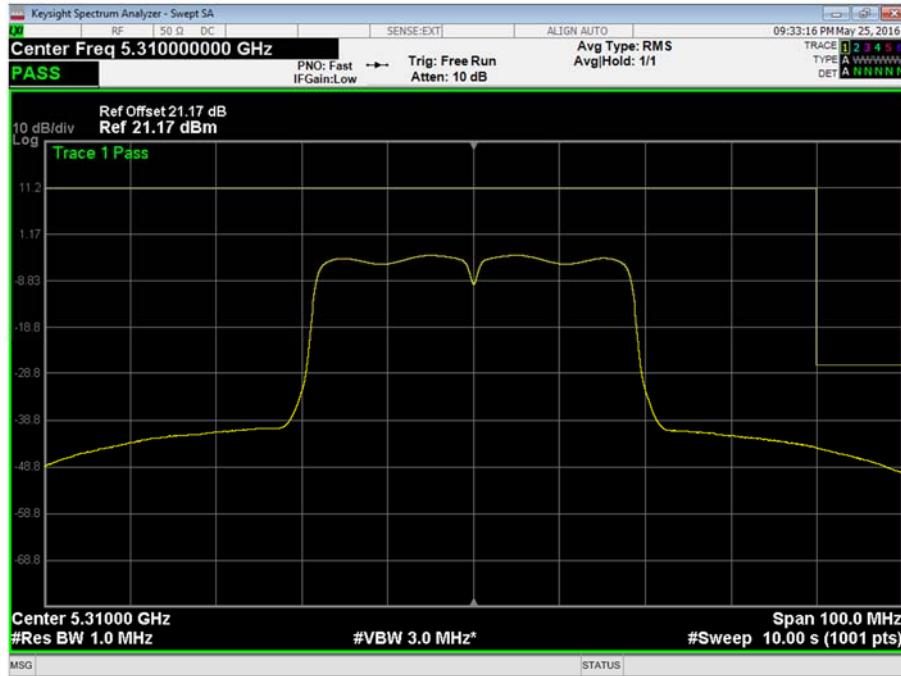


Product Service

802.11n 40 MHz Bandwidth, 5310 MHz, 0°C, 4.75 V DC Frequency Band 2, Frequency Stability Plot



802.11n 40 MHz Bandwidth, 5310 MHz, 0°C, 5.25 V DC, Frequency Band 2, Frequency Stability Plot





Product Service

802.11n 40 MHz Bandwidth, 5310 MHz, +70°C, 4.75 V DC Frequency Band 2, Frequency Stability Plot



802.11n 40 MHz Bandwidth, 5310 MHz, +70°C, 5.25 V DC, Frequency Band 2, Frequency Stability Plot



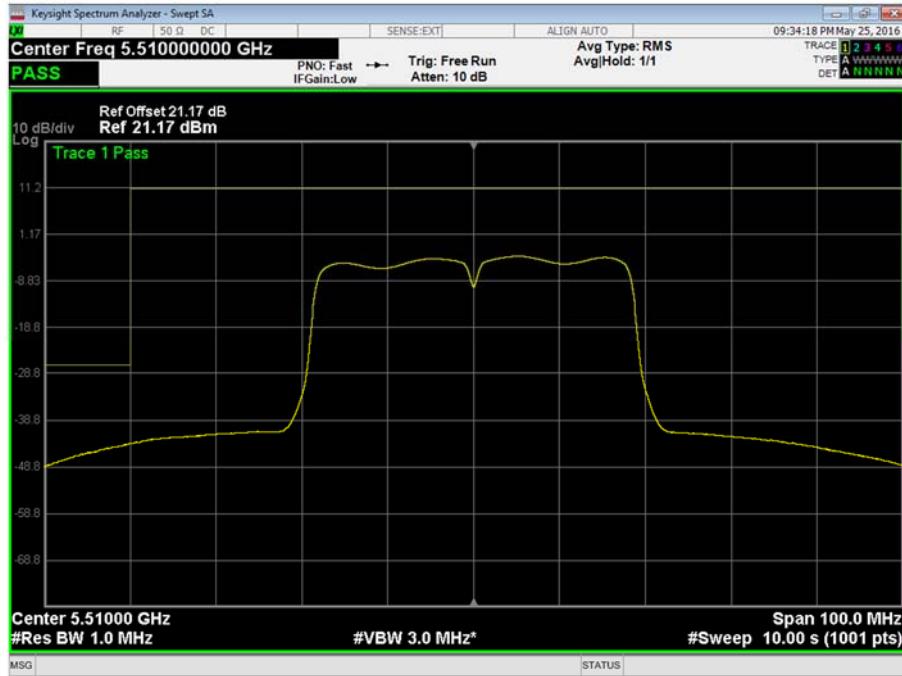


Product Service

802.11n 40 MHz Bandwidth, 5510 MHz, 0°C, 4.75 V DC, Frequency Band 3, Frequency Stability Plot



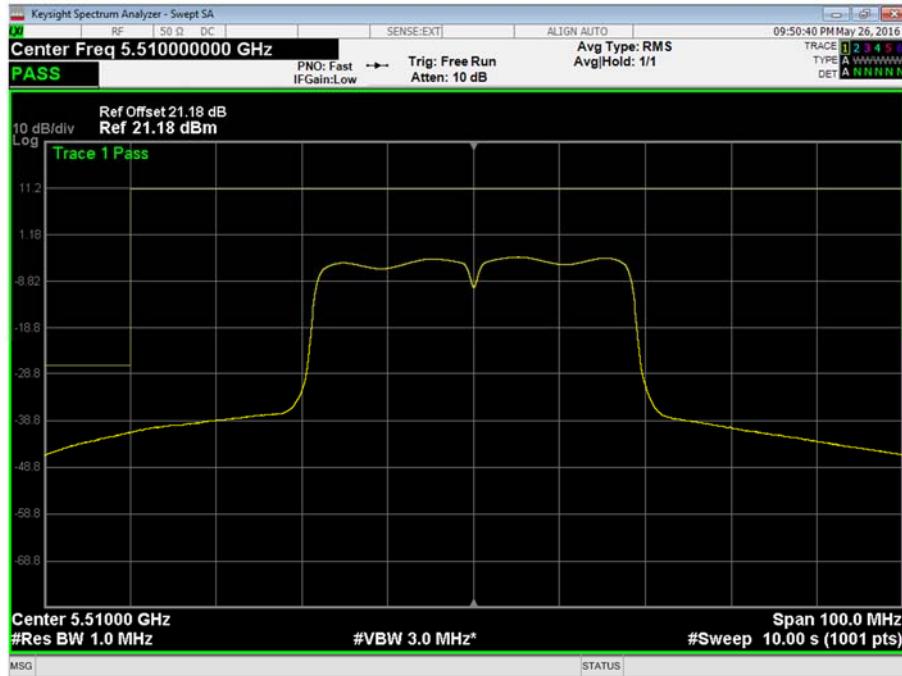
802.11n 40 MHz Bandwidth, 5510 MHz, 0°C, 5.25 V DC, Frequency Band 3, Frequency Stability Plot



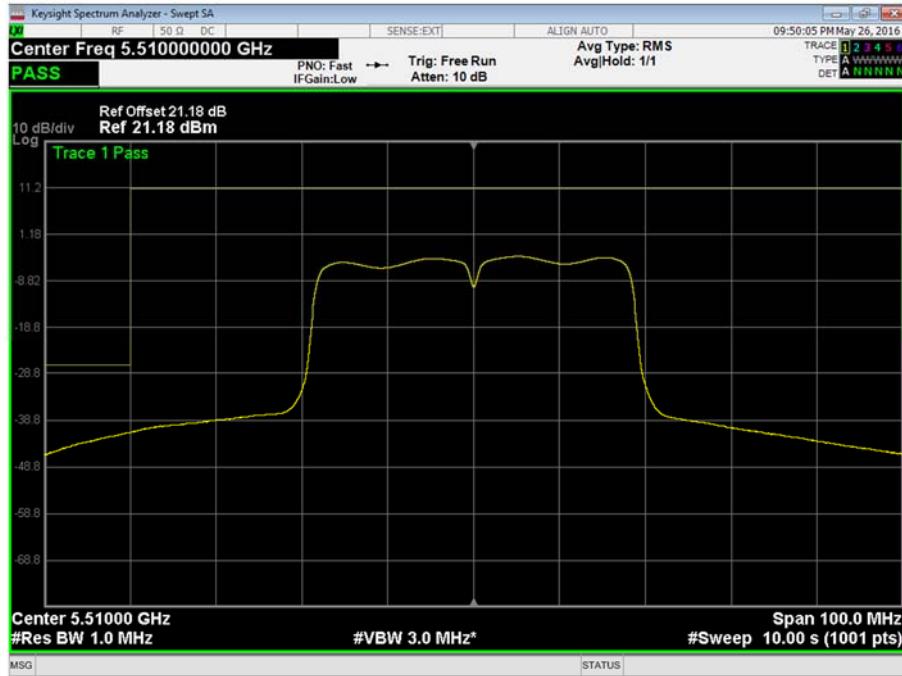


Product Service

802.11n 40 MHz Bandwidth, 5510 MHz, +70°C, 4.75 V DC Frequency Band 3, Frequency Stability Plot



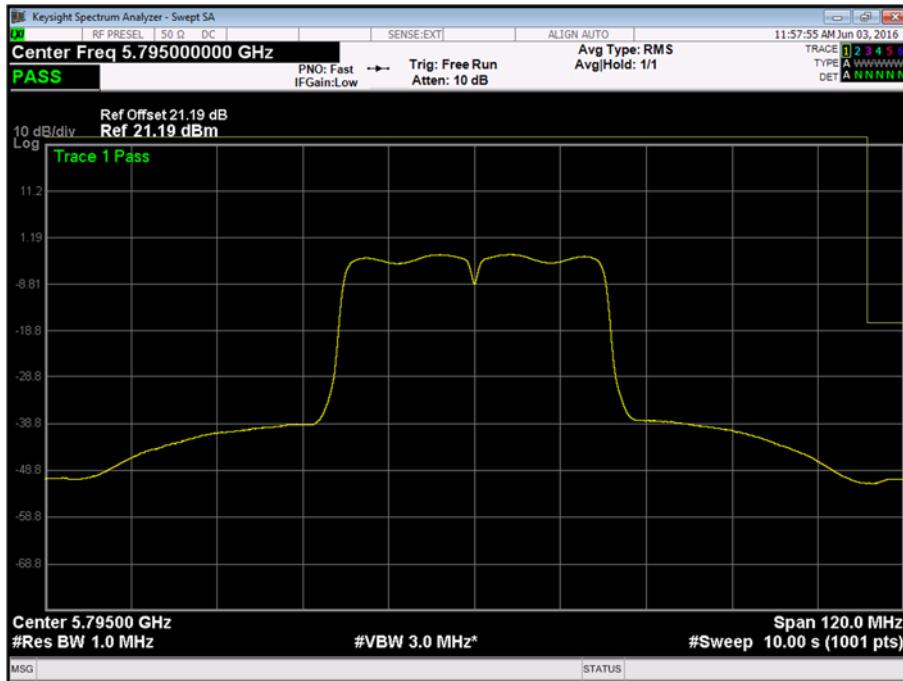
802.11n 40 MHz Bandwidth, 5510 MHz, +70°C, 5.25 V DC, Frequency Band 3, Frequency Stability Plot



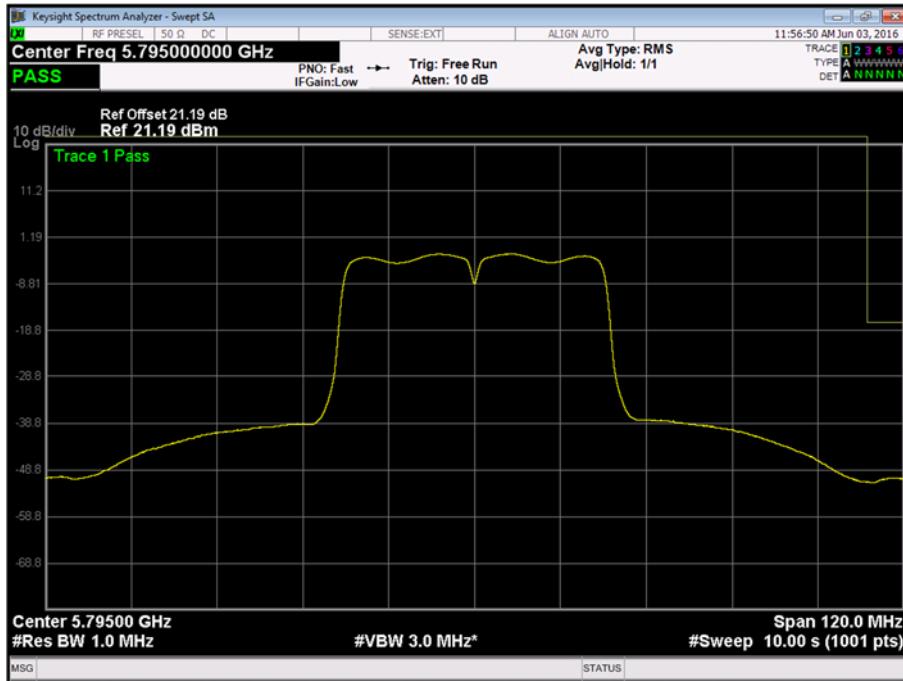


Product Service

802.11n 40 MHz Bandwidth, 5795 MHz, 0°C, 4.75 V DC Frequency Band 4, Frequency Stability Plot



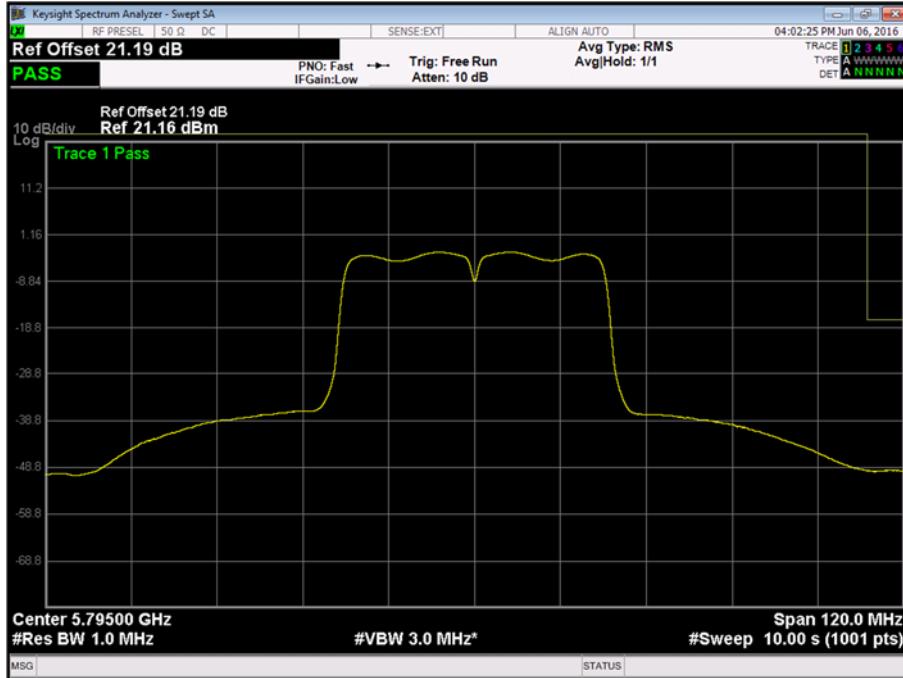
802.11n 40 MHz Bandwidth, 5795 MHz, 0°C, 5.25 V DC, Frequency Band 4, Frequency Stability Plot



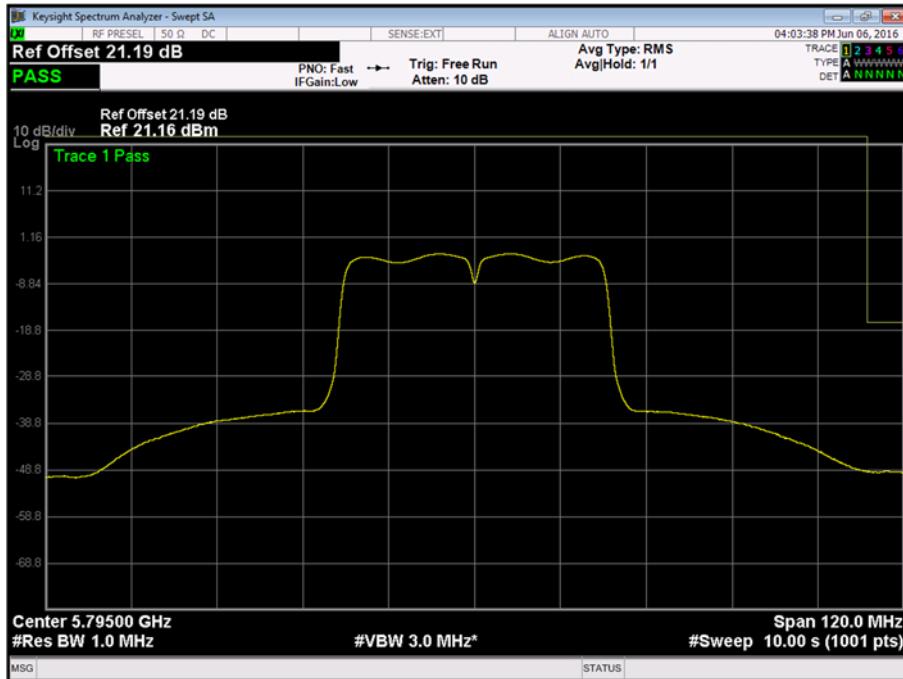


Product Service

802.11n 40 MHz Bandwidth, 5795 MHz, +70°C, 4.75 V DC Frequency Band 4, Frequency Stability Plot



802.11n 40 MHz Bandwidth, 5795 MHz, +70°C, 5.25 V DC, Frequency Band 4, Frequency Stability Plot





Product Service

FCC 47 CFR Part 15, Limit Clause 15.407 (g)

Fundamental shall be maintained within the band of operation under all conditions of normal operations as specified in the user's manual.



Product Service

2.7 RESTRICTED BAND EDGES

2.7.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.205
Industry Canada RSS-GEN, Clause 8.10

2.7.2 Equipment Under Test and Modification State

Minuet/FS5332 S/N: RAD108616 (Module) and RAD108700 (Platform) - Modification State 0

2.7.3 Date of Test

10 May 2016 & 11 May 2016

2.7.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.7.5 Test Procedure

Testing was performed in accordance with ANSI C63.10, Clause 12.7.4.4

Remarks

Average measurements were performed in accordance with ANSI C63.10, Clause 12.7.7.3

2.7.6 Environmental Conditions

Ambient Temperature	21.4 - 21.6°C
Relative Humidity	43.0 - 48.0%



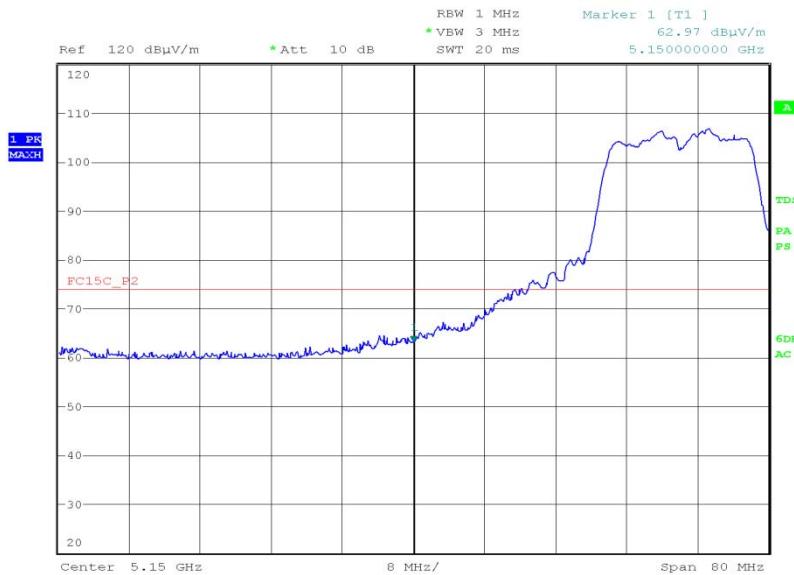
Product Service

2.7.7 Test Results

802.11a, 6 Mbps, Restricted Band Edges Results

5180 MHz		5320 MHz		5500 MHz	
Measured Frequency 5150 MHz		Measured Frequency 5350 MHz		Measured Frequency 5460 MHz	
dB μ V/m		dB μ V/m		dB μ V/m	
Final Peak	Final Average	Final Peak	Final Average	Final Peak	Final Average
62.97	51.20	61.00	50.63	62.44	50.01

802.11a, 5180 MHz, Measured Frequency 5150 MHz, 6 Mbps, Final Peak, Restricted Band Edges Plot

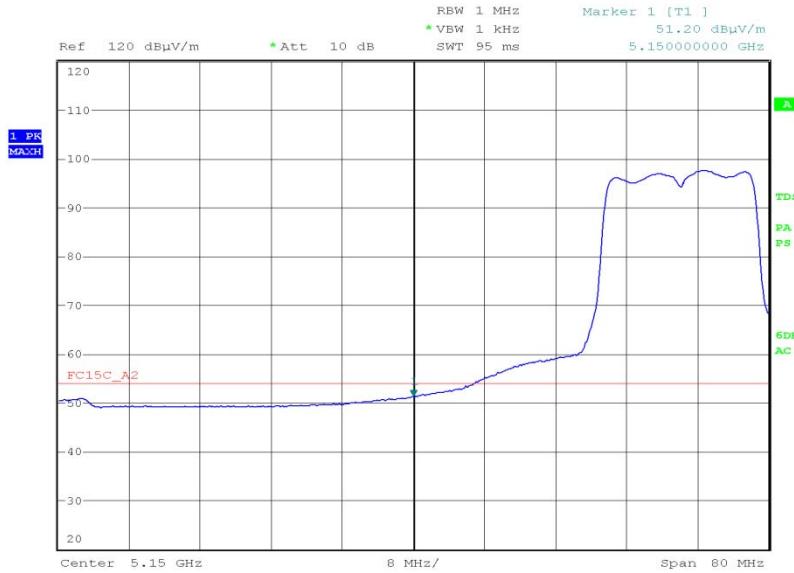


Date: 10.MAY.2016 10:42:48



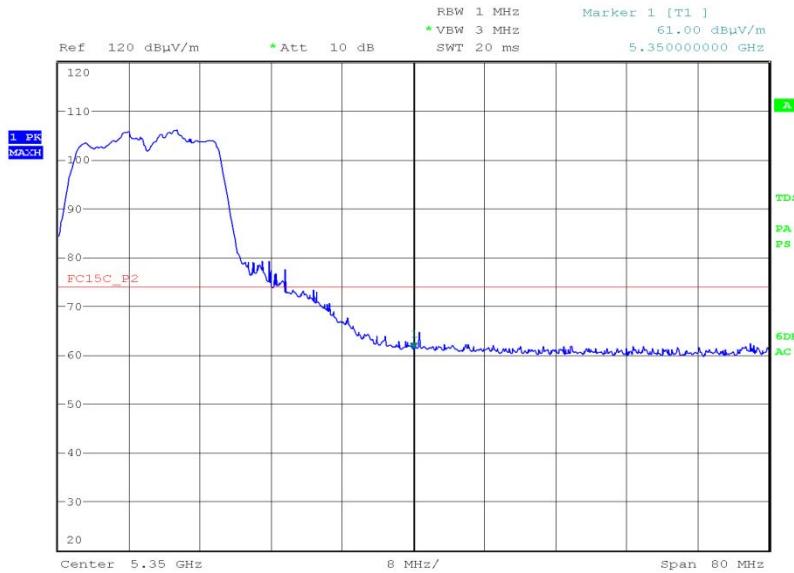
Product Service

802.11a, 5180 MHz, Measured Frequency 5150 MHz, 6 Mbps, Final Average, Restricted Band Edges Plot



Date: 10.MAY.2016 10:38:44

802.11a, 5320 MHz, Measured Frequency 5350 MHz, 6 Mbps, Final Peak, Restricted Band Edges Plot

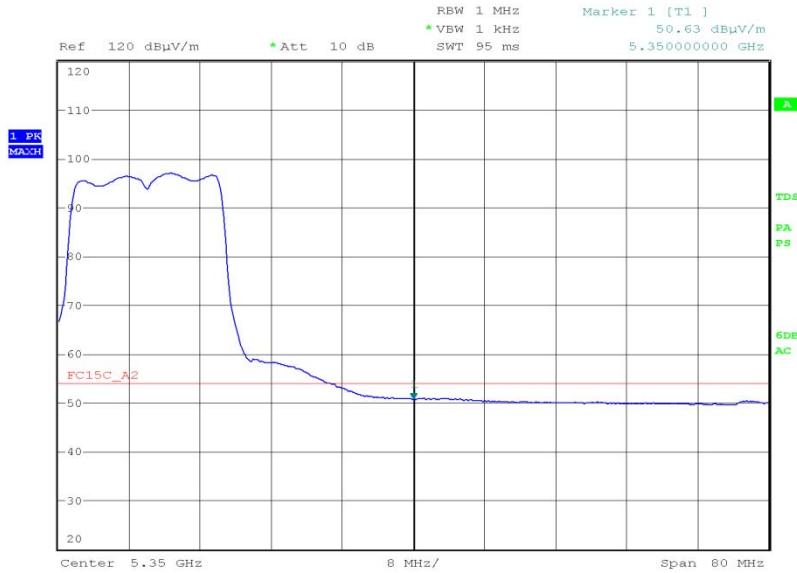


Date: 10.MAY.2016 11:24:36



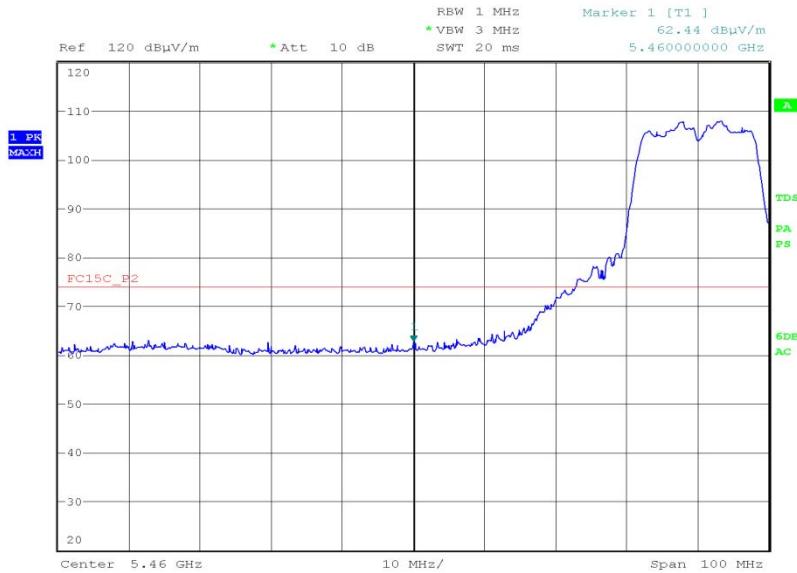
Product Service

802.11a, 5320 MHz, Measured Frequency 5350 MHz, 6 Mbps, Final Average, Restricted Band Edges Plot



Date: 10.MAY.2016 11:16:52

802.11a, 5500 MHz, Measured Frequency 5460 MHz, 6 Mbps, Final Peak, Restricted Band Edges Plot

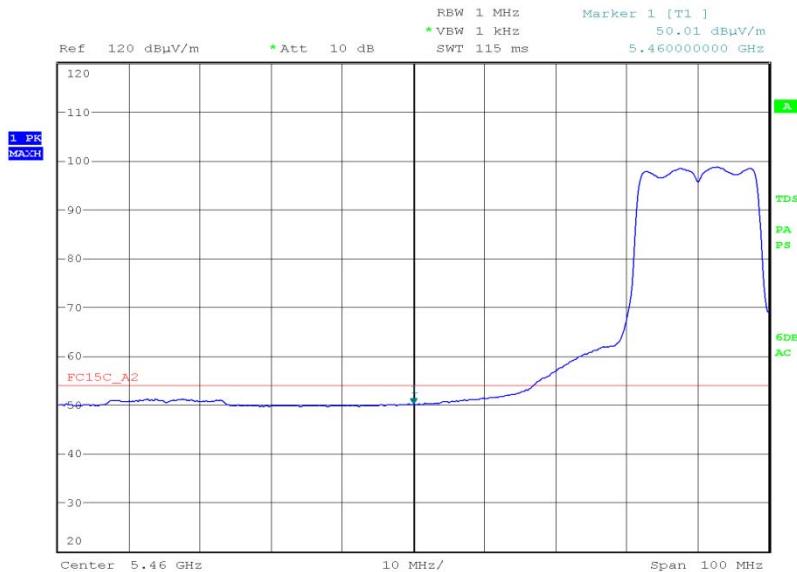


Date: 10.MAY.2016 11:38:54



Product Service

802.11a, 5500 MHz, Measured Frequency 5460 MHz, 6 Mbps, Final Average, Restricted Band Edges Plot



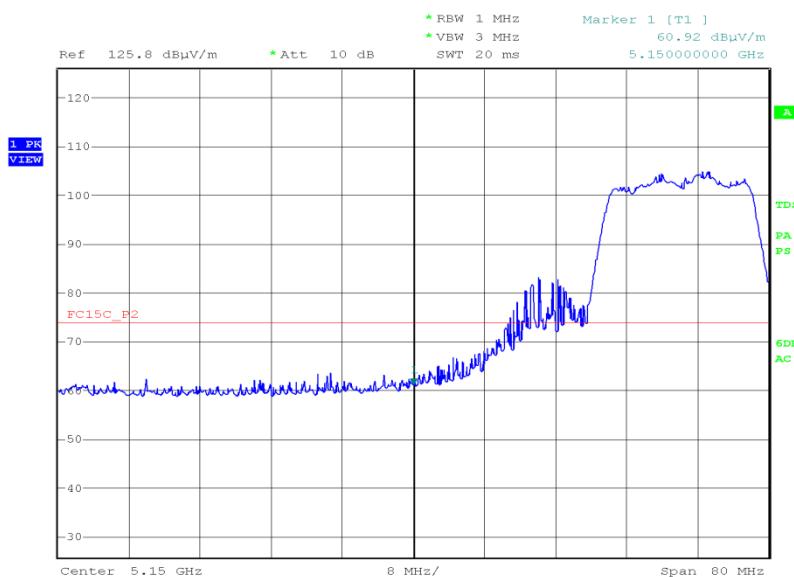
Date: 10.MAY.2016 11:36:56



Product Service

802.11a, 9 Mbps, Restricted Band Edges Results

5180 MHz		5320 MHz		5500 MHz	
Measured Frequency 5150 MHz		Measured Frequency 5350 MHz		Measured Frequency 5460 MHz	
dB μ V/m		dB μ V/m		dB μ V/m	
Final Peak	Final Average	Final Peak	Final Average	Final Peak	Final Average
60.92	50.71	62.56	50.61	61.04	50.05

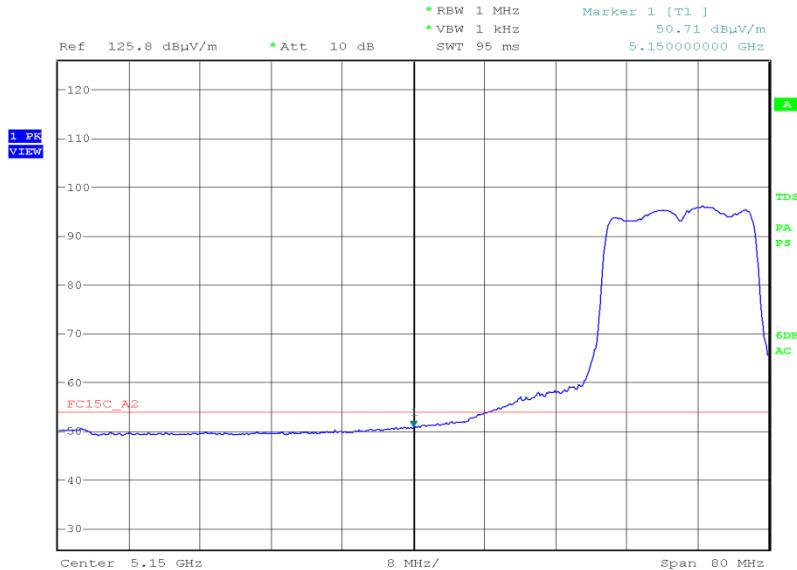
802.11a, 5180 MHz, Measured Frequency 5150 MHz, 9 Mbps, Final Peak, Restricted Band Edges Plot

Date: 10.MAY.2016 16:04:37



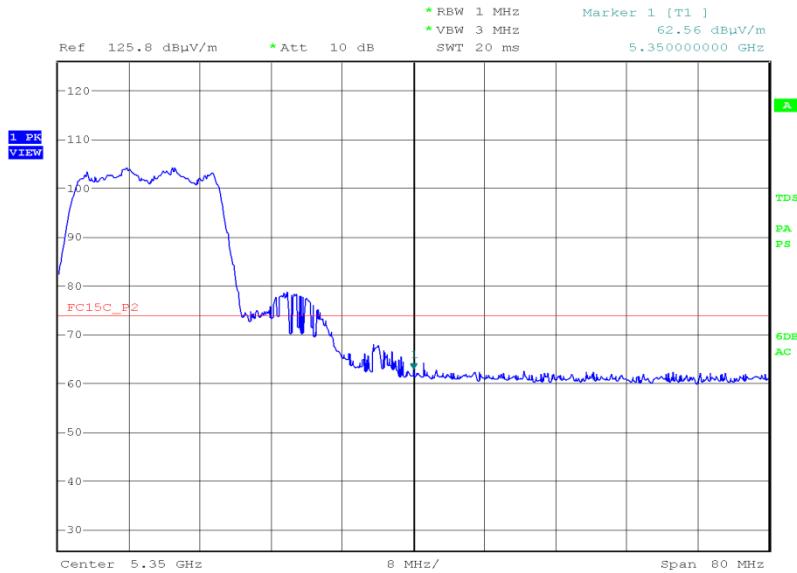
Product Service

802.11a, 5180 MHz, Measured Frequency 5150 MHz, 9 Mbps, Final Average, Restricted Band Edges Plot



Date: 10.MAY.2016 16:02:42

802.11a, 5320 MHz, Measured Frequency 5350 MHz, 9 Mbps, Final Peak, Restricted Band Edges Plot

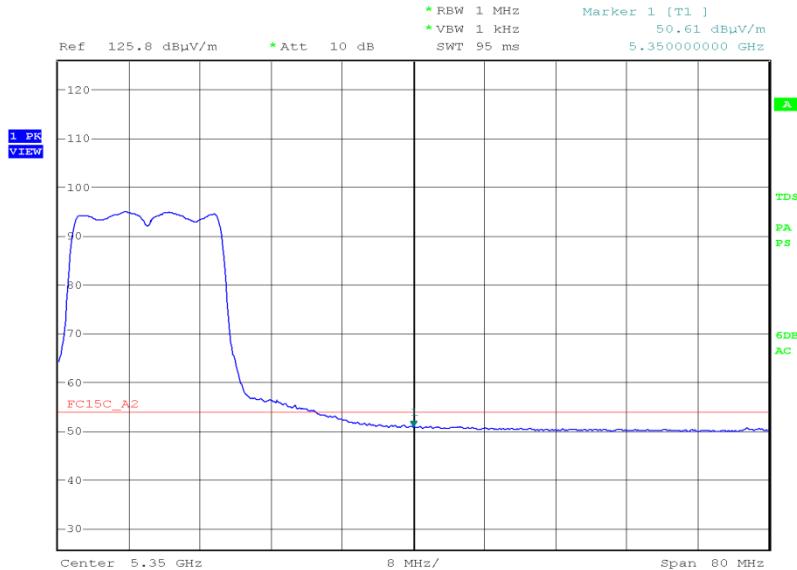


Date: 10.MAY.2016 15:54:20



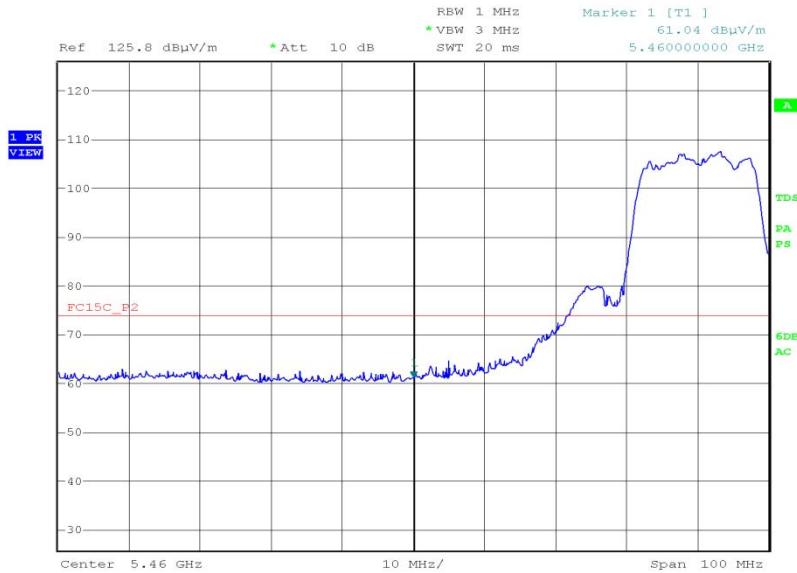
Product Service

802.11a, 5320 MHz, Measured Frequency 5350 MHz, 9 Mbps, Final Average, Restricted Band Edges Plot



Date: 10.MAY.2016 15:55:12

802.11a, 5500 MHz, Measured Frequency 5460 MHz, 9 Mbps, Final Peak, Restricted Band Edges Plot

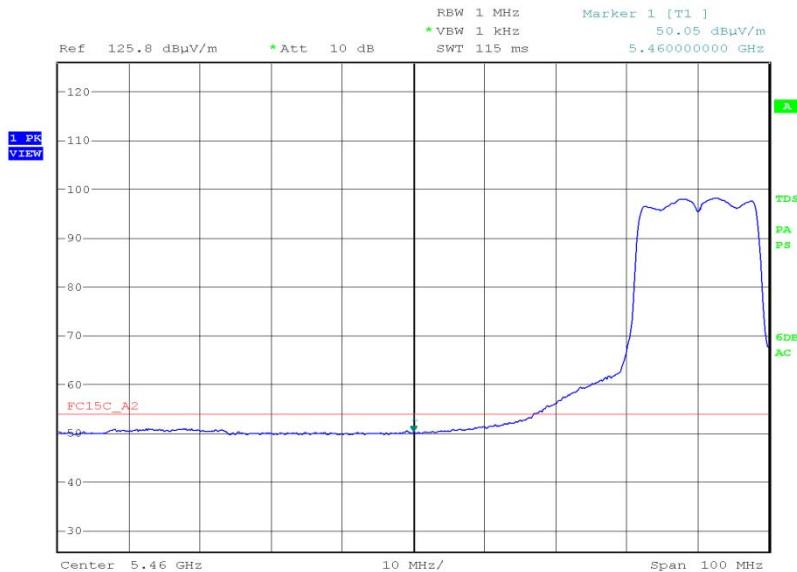


Date: 10.MAY.2016 15:37:43



Product Service

802.11a, 5500 MHz, Measured Frequency 5460 MHz, 9 Mbps, Final Average, Restricted Band Edges Plot



Date: 10.MAY.2016 15:39:03

Remark

The test was performed on 6 Mbps because this was deemed the worst case data rate for Conducted Output Power.

The test was performed on 9 Mbps because this was deemed the worst case data rate for 6 dB Bandwidth.

FCC 47 CFR Part 15, Limit Clause 15.205

	Peak (dBµV/m)	Average (dBµV/m)
Restricted Bands of Operation	74	54

Industry Canada RSS-GEN, Limit Clause 8.10

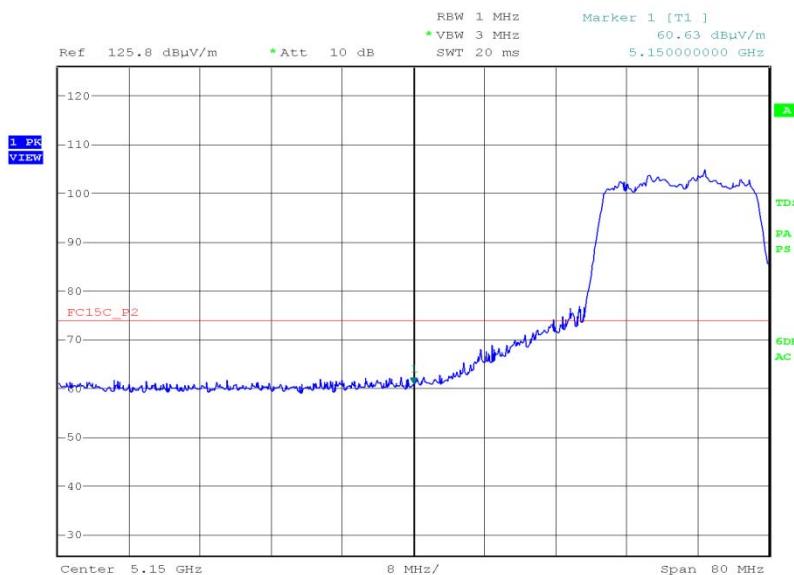
	Peak (dBµV/m)	Average (dBµV/m)
Restricted Bands of Operation	74	54



Product Service

802.11ac 20 MHz Bandwidth, MCS1, Restricted Band Edges Results

5180 MHz		5320 MHz		5500 MHz	
Measured Frequency 5150 MHz		Measured Frequency 5350 MHz		Measured Frequency 5460 MHz	
dB μ V/m		dB μ V/m		dB μ V/m	
Final Peak	Final Average	Final Peak	Final Average	Final Peak	Final Average
60.63	50.38	62.41	47.90	60.84	49.69

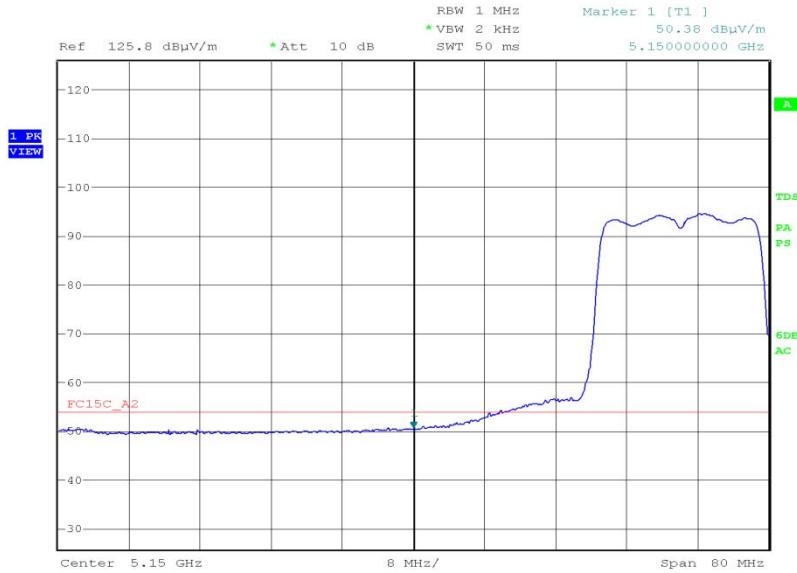
802.11ac 20 MHz Bandwidth, 5180 MHz, Measured Frequency 5150 MHz, MCS1, Final Peak, Restricted Band Edges Plot

Date: 11.MAY.2016 09:13:08



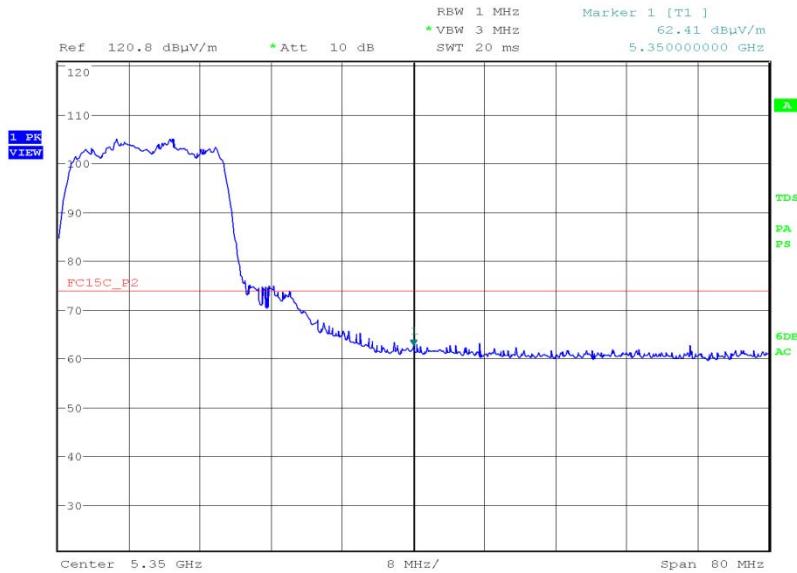
Product Service

802.11ac 20 MHz Bandwidth, 5180 MHz, Measured Frequency 5150 MHz, MCS1, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 09:12:10

802.11ac 20 MHz Bandwidth, 5320 MHz, Measured Frequency 5350 MHz, MCS1, Final Peak, Restricted Band Edges Plot

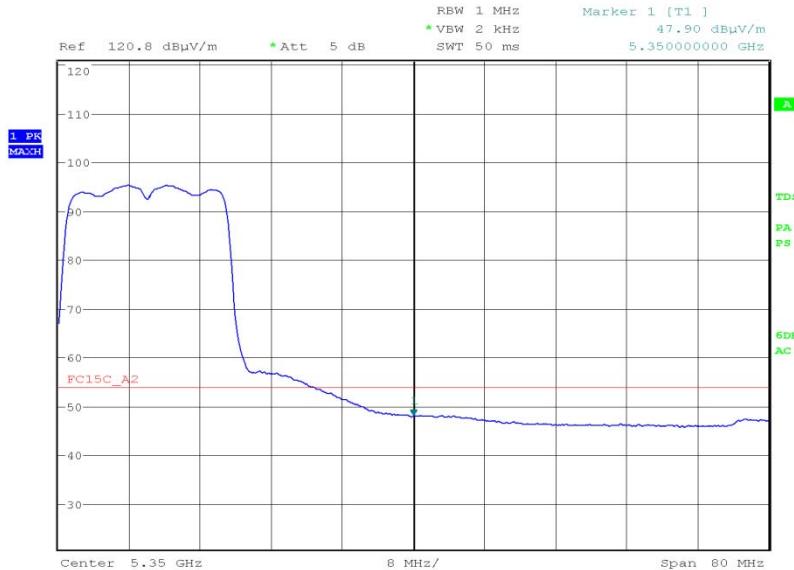


Date: 11.MAY.2016 09:23:57



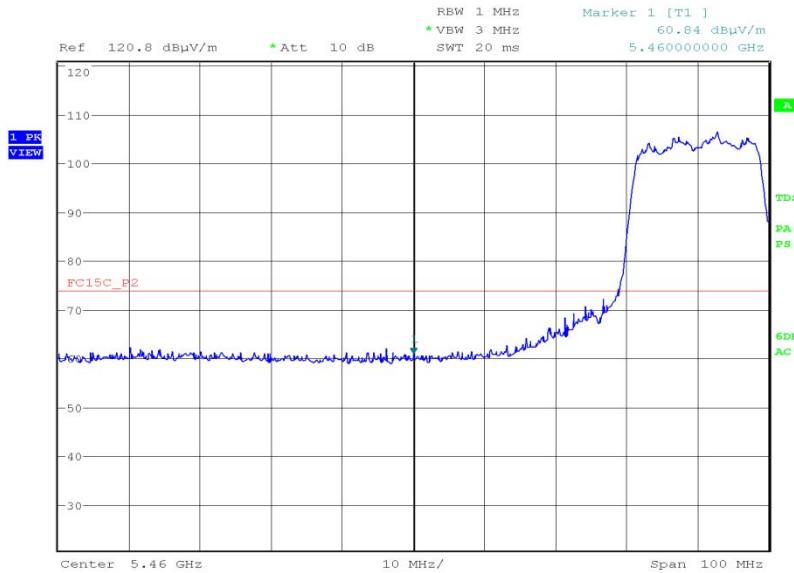
Product Service

802.11ac 20 MHz Bandwidth, 5320 MHz, Measured Frequency 5350 MHz, MCS1, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 09:23:08

802.11ac 20 MHz Bandwidth, 5500 MHz, Measured Frequency 5460 MHz, MCS1, Final Peak, Restricted Band Edges Plot

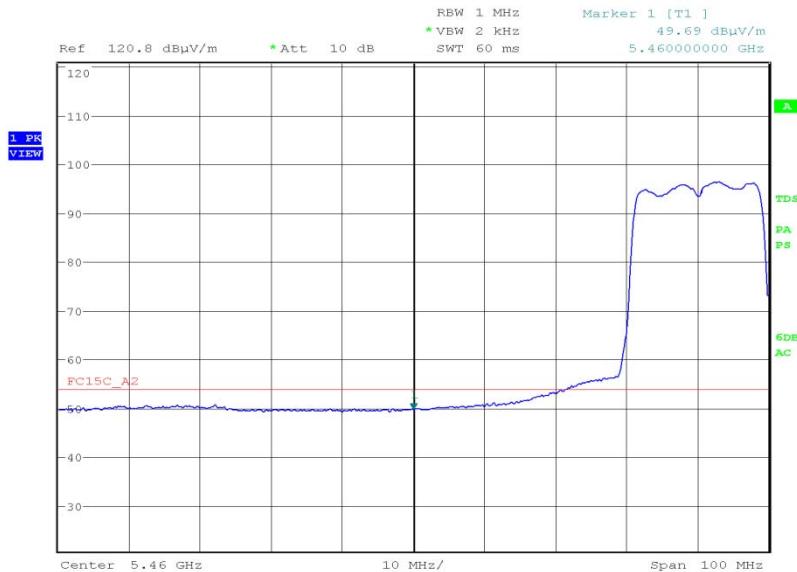


Date: 11.MAY.2016 09:43:27



Product Service

802.11ac 20 MHz Bandwidth, 5500 MHz, Measured Frequency 5460 MHz, MCS1, Final Average, Restricted Band Edges Plot



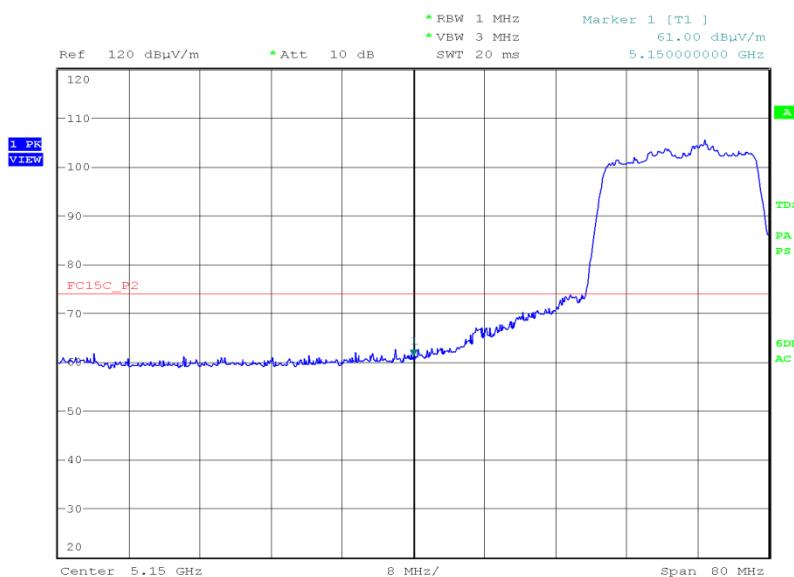
Date: 11.MAY.2016 09:44:00



Product Service

802.11ac 20 MHz Bandwidth, MCS7, Restricted Band Edges Results

5180 MHz		5320 MHz		5500 MHz	
Measured Frequency 5150 MHz		Measured Frequency 5350 MHz		Measured Frequency 5460 MHz	
dB μ V/m		dB μ V/m		dB μ V/m	
Final Peak	Final Average	Final Peak	Final Average	Final Peak	Final Average
61.00	50.30	61.26	50.66	60.24	49.89

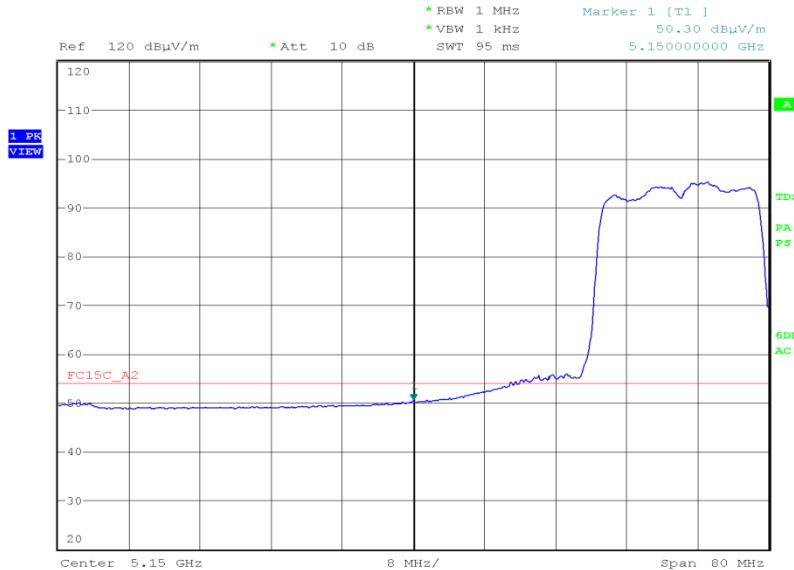
802.11ac 20 MHz Bandwidth, 5180 MHz, Measured Frequency 5150 MHz, MCS7, Final Peak, Restricted Band Edges Plot

Date: 11.MAY.2016 12:25:10



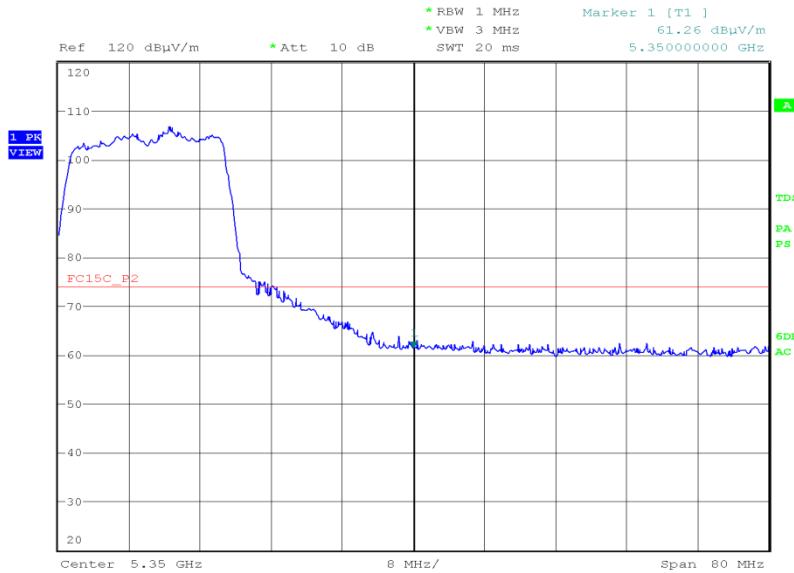
Product Service

802.11ac 20 MHz Bandwidth, 5180 MHz, Measured Frequency 5150 MHz, MCS7, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 12:26:42

802.11ac 20 MHz Bandwidth, 5320 MHz, Measured Frequency 5350 MHz, MCS7, Final Peak, Restricted Band Edges Plot

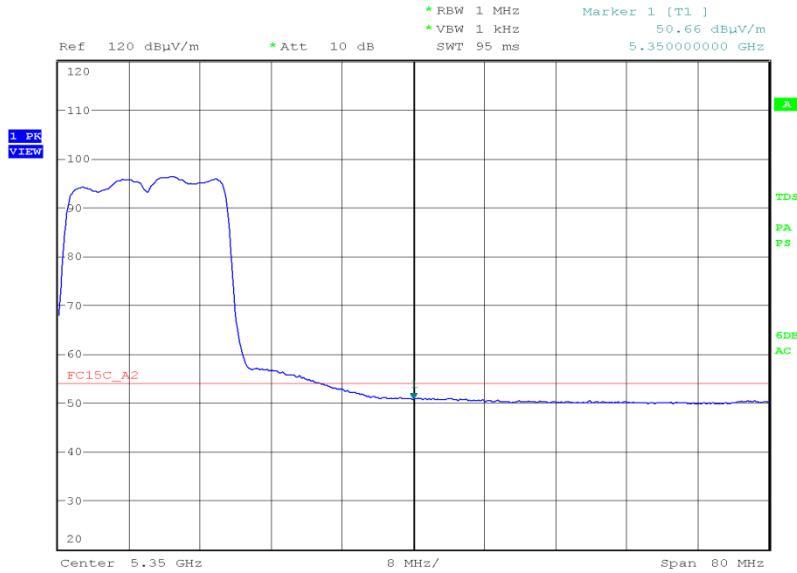


Date: 11.MAY.2016 12:02:40



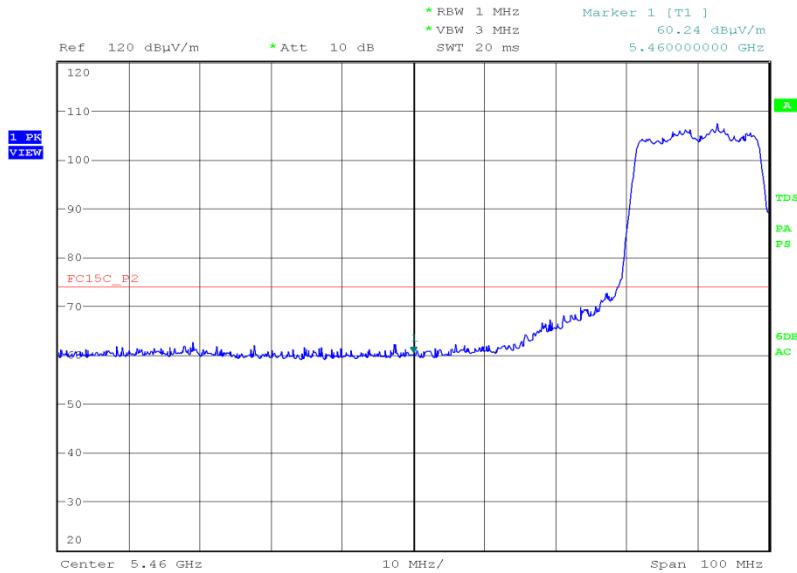
Product Service

802.11ac 20 MHz Bandwidth, 5320 MHz, Measured Frequency 5350 MHz, MCS7, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 12:04:31

802.11ac 20 MHz Bandwidth, 5500 MHz, Measured Frequency 5460 MHz, MCS7, Final Peak, Restricted Band Edges Plot

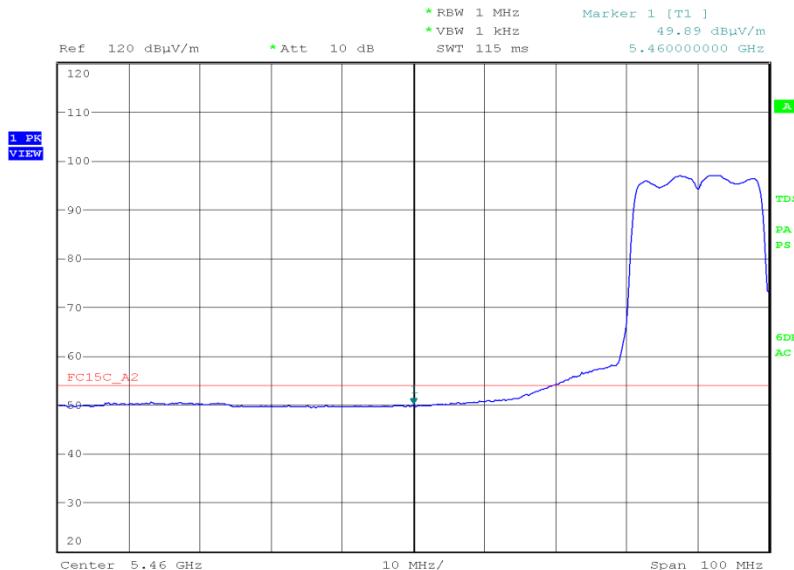


Date: 11.MAY.2016 11:39:43



Product Service

802.11ac 20 MHz Bandwidth, 5500 MHz, Measured Frequency 5460 MHz, MCS7, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 11:45:16

Remark

The test was performed on MCS1 because this was deemed the worst case data rate for Conducted Output Power.

The test was performed on MCS7 because this was deemed the worst case data rate for 6 dB Bandwidth.

FCC 47 CFR Part 15, Limit Clause 15.205

	Peak (dBμV/m)	Average (dBμV/m)
Restricted Bands of Operation	74	54

Industry Canada RSS-GEN, Limit Clause 8.10

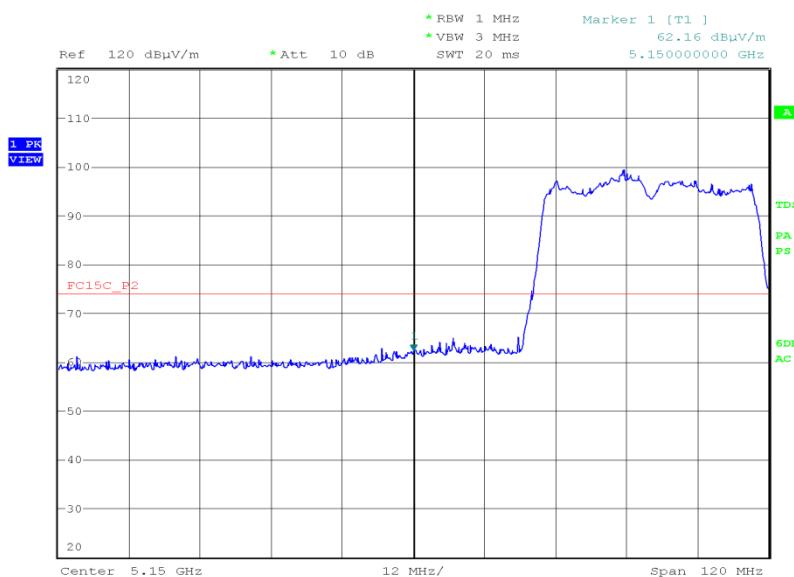
	Peak (dBμV/m)	Average (dBμV/m)
Restricted Bands of Operation	74	54



Product Service

802.11ac 40 MHz Bandwidth, MCS4, Restricted Band Edges Results

5190 MHz		5310 MHz		5510 MHz	
Measured Frequency 5150 MHz		Measured Frequency 5350 MHz		Measured Frequency 5460 MHz	
dB μ V/m		dB μ V/m		dB μ V/m	
Final Peak	Final Average	Final Peak	Final Average	Final Peak	Final Average
62.16	50.82	62.55	48.51	60.64	50.72

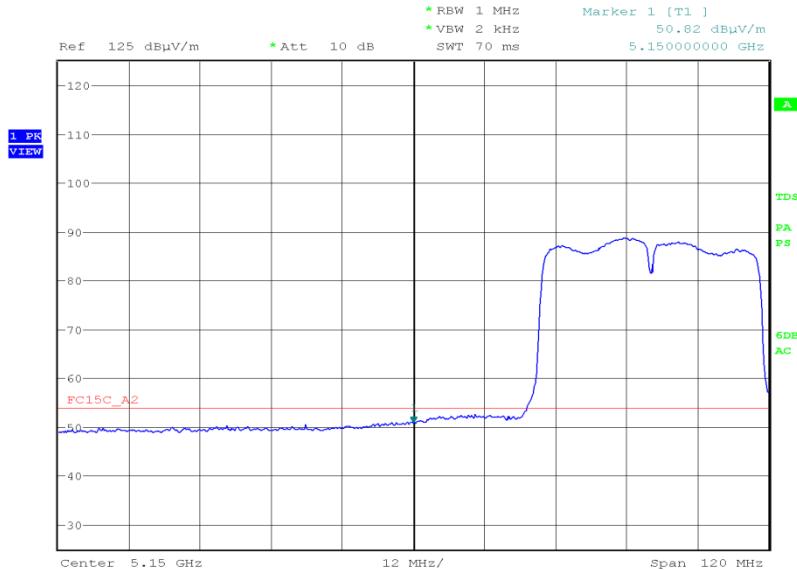
802.11ac 40 MHz Bandwidth, 5190 MHz, Measured Frequency 5150 MHz, MCS4, Final Peak, Restricted Band Edges Plot

Date: 11.MAY.2016 13:26:07



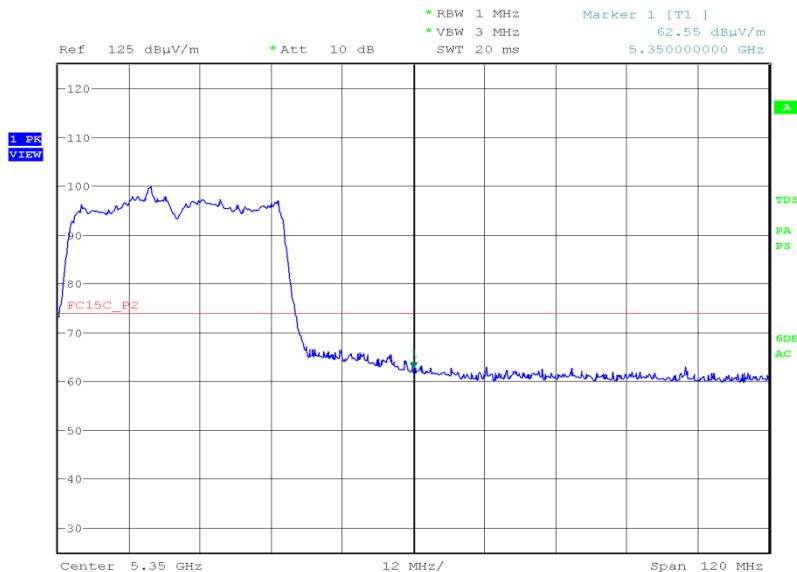
Product Service

802.11ac 40 MHz Bandwidth, 5190 MHz, Measured Frequency 5150 MHz, MCS4, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 13:29:37

802.11ac 40 MHz Bandwidth, 5310 MHz, Measured Frequency 5350 MHz, MCS4, Final Peak, Restricted Band Edges Plot

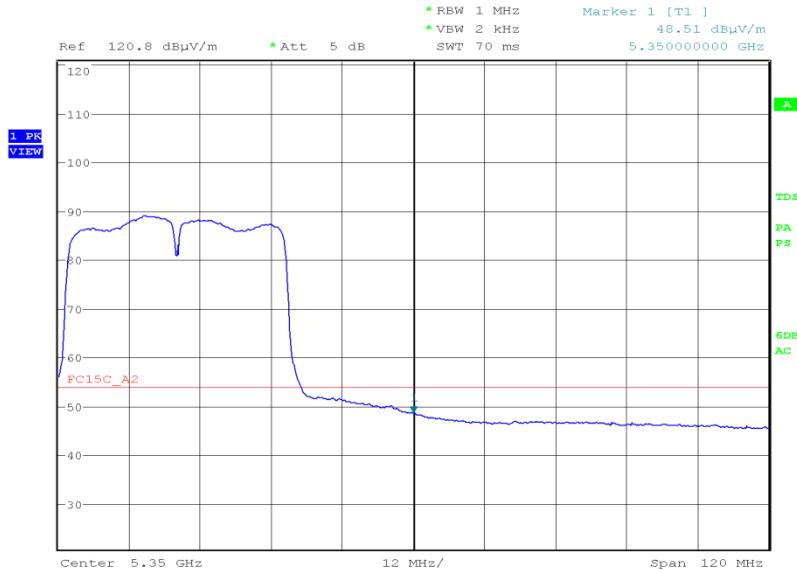


Date: 11.MAY.2016 13:37:49



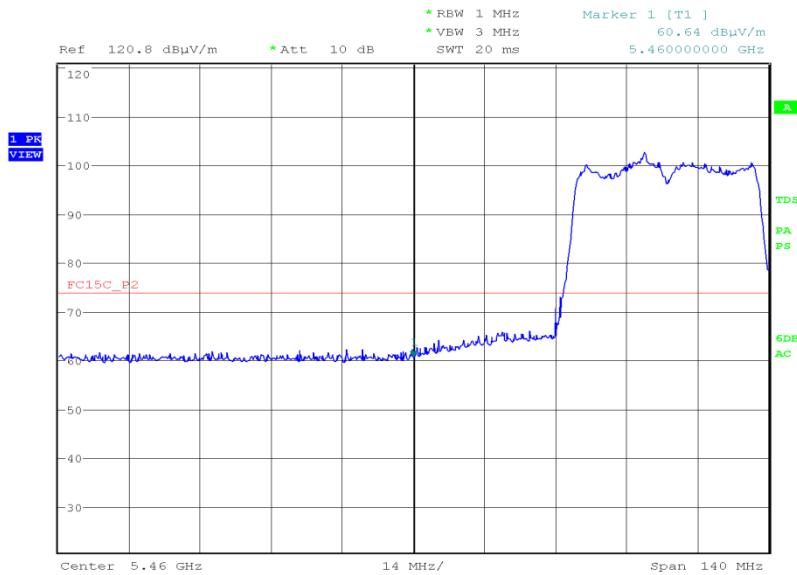
Product Service

802.11ac 40 MHz Bandwidth, 5310 MHz, Measured Frequency 5350 MHz, MCS4, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 13:40:15

802.11ac 40 MHz Bandwidth, 5510 MHz, Measured Frequency 5460 MHz, MCS4, Final Peak, Restricted Band Edges Plot

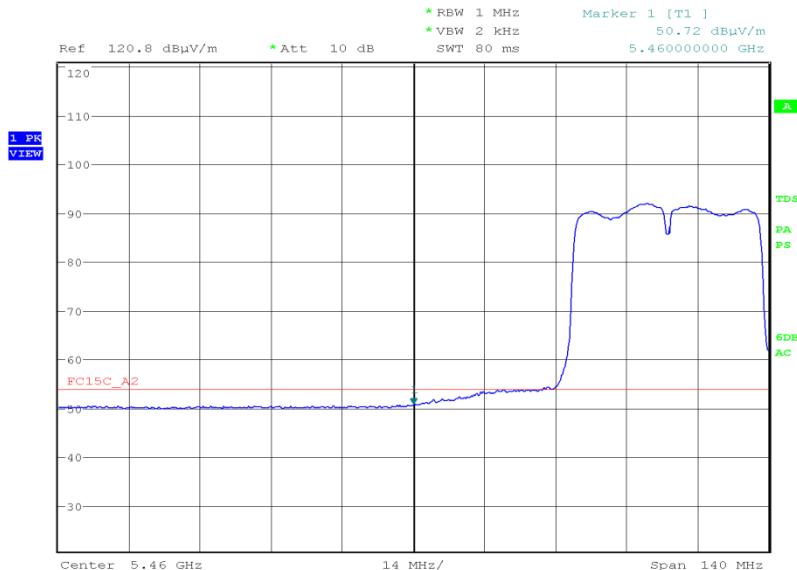


Date: 11.MAY.2016 13:47:38



Product Service

802.11ac 40 MHz Bandwidth, 5510 MHz, Measured Frequency 5460 MHz, MCS4, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 13:46:58

Remark

The test was performed on MCS4 because this was deemed the worst case data rate for Conducted Output Power.

The test was performed on MCS7 because this was deemed the worst case data rate for 6 dB Bandwidth.

FCC 47 CFR Part 15, Limit Clause 15.205

	Peak (dBμV/m)	Average (dBμV/m)
Restricted Bands of Operation	74	54

Industry Canada RSS-GEN, Limit Clause 8.10

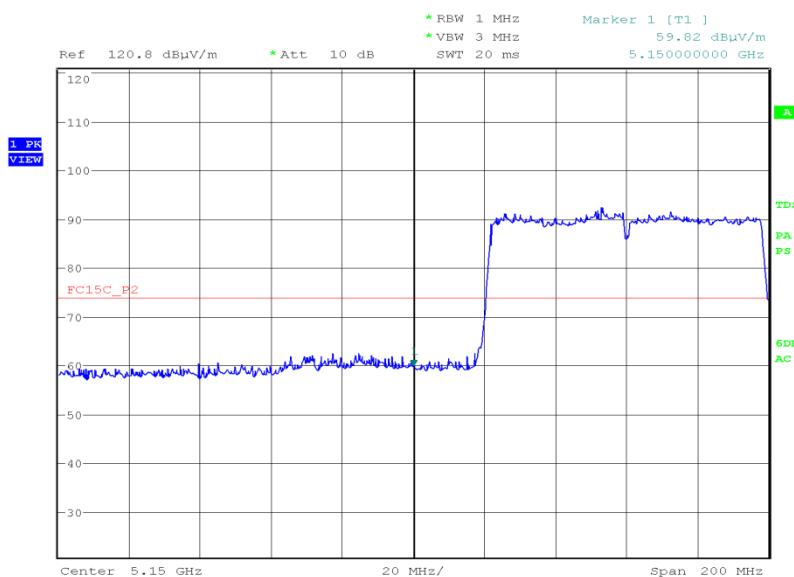
	Peak (dBμV/m)	Average (dBμV/m)
Restricted Bands of Operation	74	54



Product Service

802.11ac 80 MHz Bandwidth, MCS8, Restricted Band Edges Results

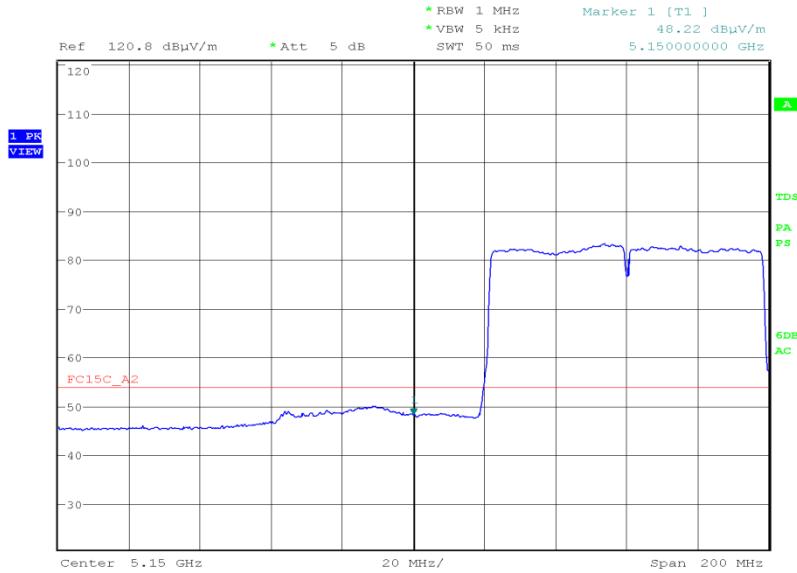
5210 MHz		5290 MHz		5530 MHz	
Measured Frequency 5150 MHz		Measured Frequency 5350 MHz		Measured Frequency 5460 MHz	
dB μ V/m		dB μ V/m		dB μ V/m	
Final Peak	Final Average	Final Peak	Final Average	Final Peak	Final Average
59.82	48.22	61.44	48.88	62.33	50.70

802.11ac 80 MHz Bandwidth, 5210 MHz, Measured Frequency 5150 MHz, MCS8, Final Peak, Restricted Band Edges Plot



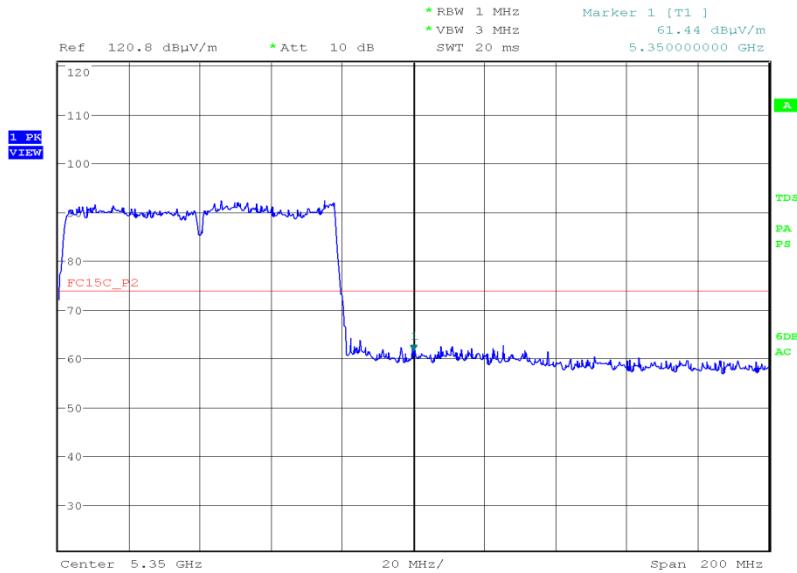
Product Service

802.11ac 80 MHz Bandwidth, 5210 MHz, Measured Frequency 5150 MHz, MCS8, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 14:31:57

802.11ac 80 MHz Bandwidth, 5290 MHz, Measured Frequency 5350 MHz, MCS8, Final Peak, Restricted Band Edges Plot

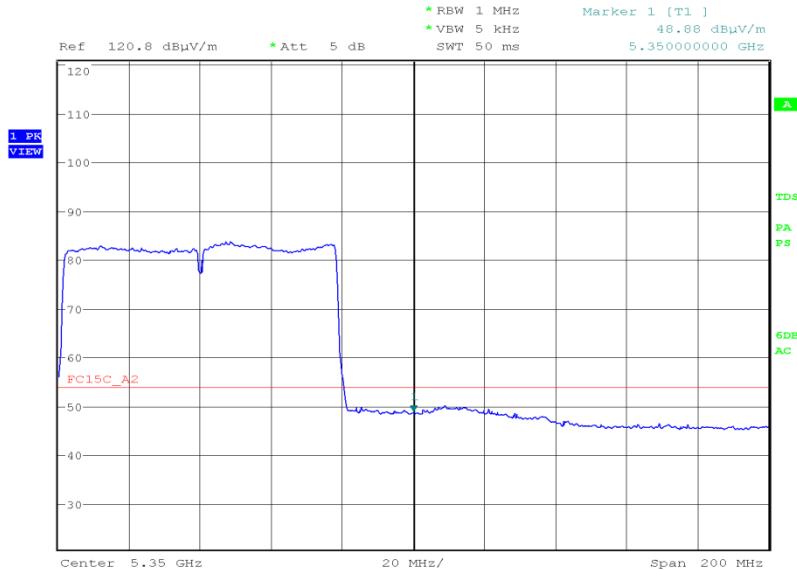


Date: 11.MAY.2016 14:40:07



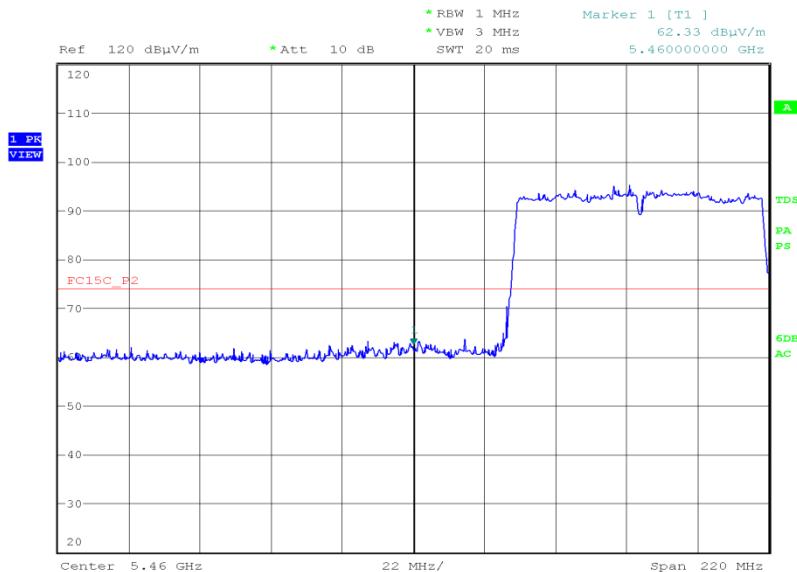
Product Service

802.11ac 80 MHz Bandwidth, 5290 MHz, Measured Frequency 5350 MHz, MCS8, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 14:39:10

802.11ac 80 MHz Bandwidth, 5530 MHz, Measured Frequency 5460 MHz, MCS8, Final Peak, Restricted Band Edges Plot

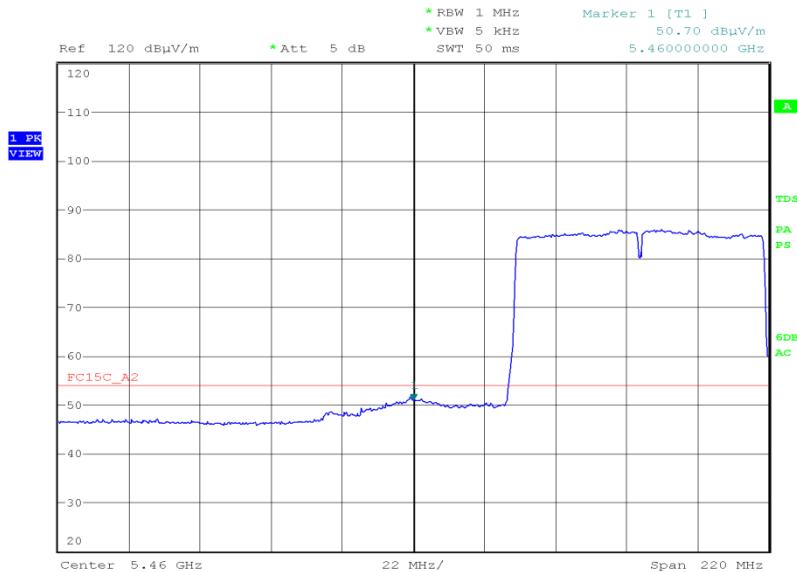


Date: 11.MAY.2016 15:10:24



Product Service

802.11ac 80 MHz Bandwidth, 5530 MHz, Measured Frequency 5460 MHz, MCS8, Final Average, Restricted Band Edges Plot



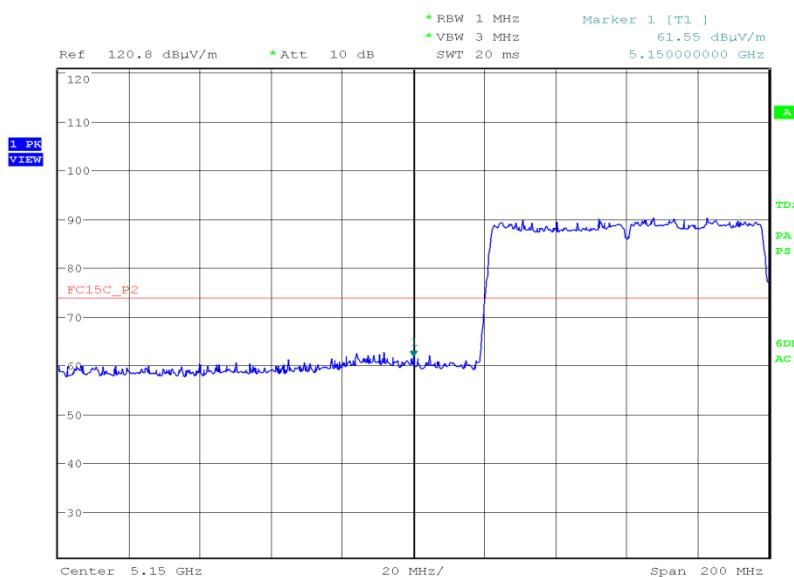
Date: 11.MAY.2016 15:09:41



Product Service

802.11ac 80 MHz Bandwidth, MCS0, Restricted Band Edges Results

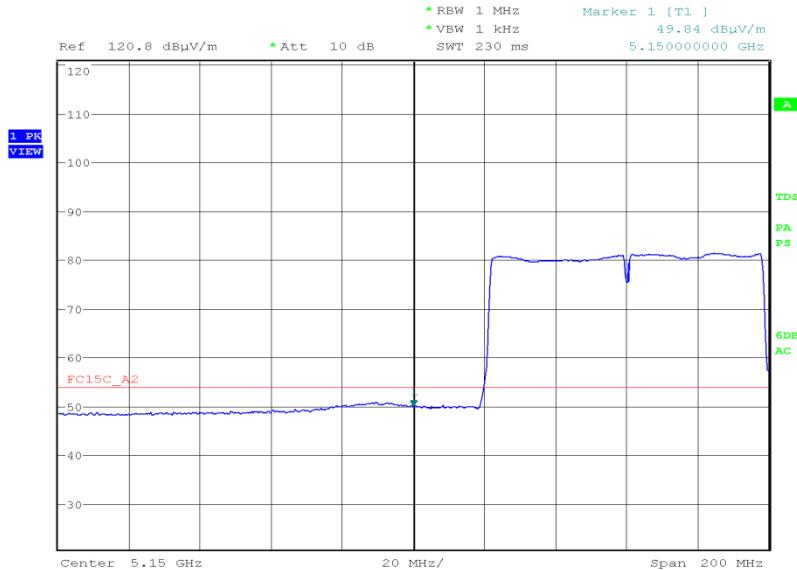
5210 MHz		5290 MHz		5530 MHz	
Measured Frequency 5150 MHz		Measured Frequency 5350 MHz		Measured Frequency 5460 MHz	
dB μ V/m		dB μ V/m		dB μ V/m	
Final Peak	Final Average	Final Peak	Final Average	Final Peak	Final Average
61.55	49.84	60.42	47.10	62.29	49.87

802.11ac 80 MHz Bandwidth, 5210 MHz, Measured Frequency 5150 MHz, MCS0, Final Peak, Restricted Band Edges Plot



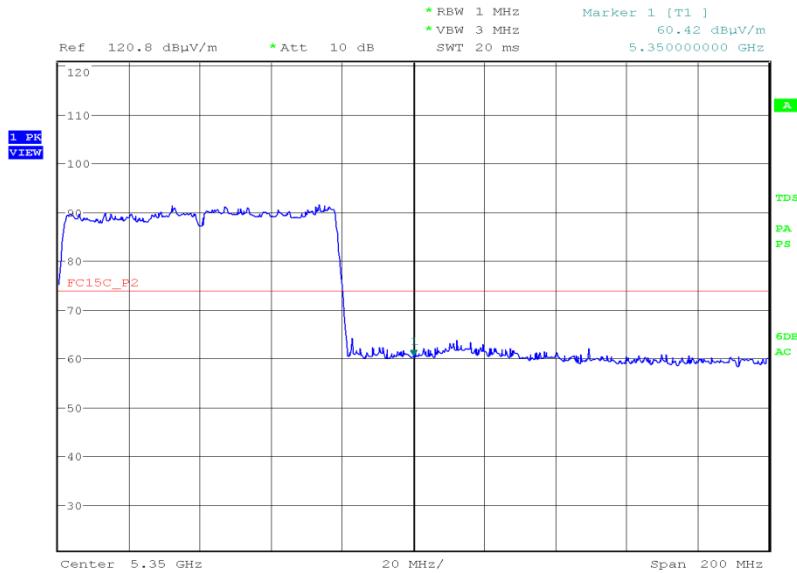
Product Service

802.11ac 80 MHz Bandwidth, 5210 MHz, Measured Frequency 5150 MHz, MCS0, Final Average, Restricted Band Edges Plot



Date: 11.MAY.2016 16:40:33

802.11ac 80 MHz Bandwidth, 5290 MHz, Measured Frequency 5350 MHz, MCS0, Final Peak, Restricted Band Edges Plot



Date: 11.MAY.2016 16:32:13