

Digital Path

TEST REPORT FOR

**Generation 5 Repeater
Model: RHK-G5RL10**

Tested To The Following Standards:

FCC Part 15 Subpart C Sections 15.207 and 15.247

Report No.: 92682-22

Date of issue: September 6, 2012



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

TABLE OF CONTENTS

Administrative Information	3
Test Report Information	3
Report Authorization	3
Test Facility Information	4
Site Registration & Accreditation Information	4
Summary of Results	5
Conditions During Testing	5
Equipment Under Test	6
Peripheral Devices	7
FCC Part 15 Subpart C	8
15.31(e) Voltage Variations	8
15.207 AC Conducted Emissions	9
-6dBc Occupied Bandwidth	16
15.247(b)(3) RF Power Output	31
Bandedge	46
G5RL10E	48
G5RL10T-ALL	56
15.247(d) Conducted Spurious Emissions	63
15.247(d) Radiated Spurious Emissions	168
15.247(e) Power Spectral Density	233
Appendix A: Customer Provided Information	248
EUT Software Settings During Testing	249
Appendix B	251
Conditions During Testing	252
Equipment Under Test	253
Peripheral Devices	253
15.247(d) Radiated Spurious Emissions	254
Supplemental Information	261
Measurement Uncertainty	261
Emissions Test Details	261

ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

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REPORT PREPARED BY:

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Project Number: 92682

DATE OF EQUIPMENT RECEIPT:

April 23, 2012

DATE(S) OF TESTING:

April 23-July 22, 2012

April 24, 2013

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Site Registration & Accreditation Information

Location	CB #	Taiwan	Canada	FCC	Japan
Fremont	US0082	SL2-IN-E-1148R	3082B-1	958979	R-2160 C-2332 T-228 G-522

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C Sections 15.207 and 15.247

Description	Test Procedure/Method	Results
Voltage Variation	FCC Part 15 Subpart C Section 15.31(e)	Pass
Conducted Emissions	FCC Part 15 Subpart C Section 15.207 / ANSI C63.4 (2003)	Pass
-6dBc Occupied Bandwidth	FCC Part 15 Subpart C Section 15.247 (a)(2) / KDB 558074 V01	Pass
RF Power Output	FCC Part 15 Subpart C Section 15.247 (b)(3) / KDB 558074 V01	Pass
Bandedge	FCC Part 15 Subpart C / KDB 558074 V01 / ITU-R 551	Pass
Conducted Spurious Emissions	FCC Part 15 Subpart C Section 15.247 (d) / KDB 558074 V01	Pass
Radiated Spurious Emissions	FCC Part 15 Subpart C Section 15.247(d) KDB 558074 V01	Pass
Power Spectral Density	FCC Part 15 Subpart C 15.247 (e) / KDB 558074 V01	Pass

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
Note: At the time of testing the omni antenna was recorded as having 11dBi. Since the time of testing the antenna manufacturer revised their specifications to 10dBi. There is no significant change in the data as recorded in the test report at 11dBi.
The Generation 5 Repeater had two modes of operation and was transmitting on two out of three chains. The two modes of operation are 10MHz Channel Width and 20MHz Channel Width. The two chains transmitted over are Chain 0 and Chain 2. The unit has two identical radios installed. Each radio feeds a separate antenna. One of the two chains of the radio feeds the horizontal component of the radio and the other chain feeds the vertical component of the radio. If a third antenna is used (as in the case of the 5GHz Tri-Sector), that antenna is receive only. Firmware/Software is setup such that the two radios cannot transmit in the same frequency band.
Power measurements were made for all data rates/modulations for each System Channel Width to determine the worst case data rate/modulation for all final measurements to be made.
Original 15.247(d) radiated spurious emissions testing done April 23-July 22, 2012. Modifications to EUT were done after original testing. For test data 15.247(d) radiated spurious emissions with modifications, see Appendix B.

EQUIPMENT UNDER TEST (EUT)

The following system has been tested by CKC Laboratories: **Generation 5 Repeater, RHK-G5RL10.**

The manufacturer states that the following additional models are identical electrically to the one which was tested, or any differences between them do not affect their EMC characteristics, and therefore they meet the level of testing equivalent to the tested models.

The Generation 5 Repeater has multiple configurations that are defined in the table below with Product Codes. The Emissions Data Sheets reference the Product Code of the actual configuration tested of the Generation 5 Repeater.

The different configurations cover the two main chassis for the Generation 5 Repeater plus the different options available. The 5GHZ Tri-Sector is a metal chassis using 17dBi Sector antennas. The 5GHz Panel is a plastic chassis with an integrated 18dBi Panel and either an integrated Omi Directional Antenna or external connectors to connect an external antenna to. The remaining differences in the configurations are if the device has GPS installed or not and for the Tri-Sector version, if there is a heater included or if the antennas are directed using shims.

PRODUCT CODE	DESCRIPTION
G5RL10	5GHz Panel (18dBi) w/ integrated 10dBi Omni Directional Antenna
G5RL10E	5GHz Panel w/ external connectors
G5RL10G	5GHz Panel (18dBi) w/ integrated 10dBi Omni Directional Antenna w/ GPS
G5RL10EG	5GHz Panel w/ external connectors w/ GPS
G5RL10T	5GHz Tri-Sector (17dBi)
G5RL10TG	5GHz Tri-Sector (17dBi) w/ GPS
G5RL10TH	5GHz Tri-Sector (17dBi) w/ 48v Heater
G5RL10THG	5GHz Tri-Sector (17dBi) w/ GPS and 48v Heater
G5RL10TS	5GHz Tri-Sector (17dBi) w/ shims
G5RL10TGS	5GHz Tri-Sector (17dBi) w/ GPS and shims
G5RL10THS	5GHz Tri-Sector (17dBi) w/ 48v heater / shims
G5RL10TGHS	5GHz Tri-Sector (17dBi) w/ GPS / 48v heater / shims
G5RL102XG	5GHz duo-sector (17dBi) w/ GPS and aluminum case
G5RL102X	5GHz duo-sector (17dBi) w/ aluminum case

EQUIPMENT UNDER TEST

5GHz Panel (18dBi) + Omni (11dBi)

Manuf: Digital Path
Model: G5RL10G
Serial: EMI 2

Power Supply

Manuf: Condor
Model: STD-2427P
Serial: NA

5GHz Tri-Sector (17dBi)

Manuf: Digital Path
Model: G5RL10T
Serial: EMI 1

5GHz Panel (23 dBi)

Manuf: Digital Path
Model: G5RL10E
Serial: EMI 3

5GHz Sector (20 dBi)

Manuf: Digital Path
Model: G5RL10E
Serial: EMI 5

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Laptop Computer

Manuf: HP
Model: ProBook 6565b
Serial: 5CB13637ZF

Laptop Power Supply

Manuf: HP
Model: 608428-002
Serial: F12941126327228

FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CFR 15C requirements for Unlicensed Radio Frequency Devices, Subpart C - Intentional Radiators.

15.31(e) Voltage Variations

Test Conditions / Setup

Voltage variations on the input of the power supply over the operating range of 100-240VAC, did not significantly change the transmit output.

Engineer Name: C. Nicklas

Test Equipment					
Asset/Serial #	Description	Model	Manufacturer	Cal Date	Cal Due
02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
P05843	Cable	32022-2-29094K-48TC	AstroLab	7/30/2010	7/30/2012
P05935	Attenuator	84A-10	Weinschel	10/19/2011	10/19/2013
P05913	Cable	32022-2-209094K-48TC	AstroLab	8/30/2011	8/30/2013

Test Setup Photos



15.207 AC Conducted Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **92682** Date: 6/3/2012
 Test Type: **Conducted Emissions** Time: 21:21:40
 Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 215
 Manufacturer: Digital Path Tested By: E. Wong
 Model: G5RL10G 110V 60Hz
 S/N: EMI 2

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP00081	Attenuator	PE7002-10	5/13/2011	5/13/2013
T2	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/2/2010	12/2/2012
T3	ANP05440	Cable		3/7/2011	3/7/2013
T4	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T5	AN00494	50uH LISN-Loss L1 (L) Black (dB)	3816/NM	3/29/2011	3/29/2013
	AN00494	50uH LISN-Loss L2 (N) White (dB)	3816/NM	3/29/2011	3/29/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2
Power Supply	Condor	STD-2427P	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities.

11dBi Omni antenna is connected to radio 0 (instance 1)

18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2).

Representing the worst case configuration for the product series, Receiver circuit and GPS receiver are active.

Freq: 5785MHz

BW= 10MHz

802.11a: 24 Mbps, TX power setting= 22

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 150kHz- 30MHz.

150 kHz-30 MHz; RBW=9 kHz, VBW=9kHz

Ext Attn: 0 dB

Measurement Data:

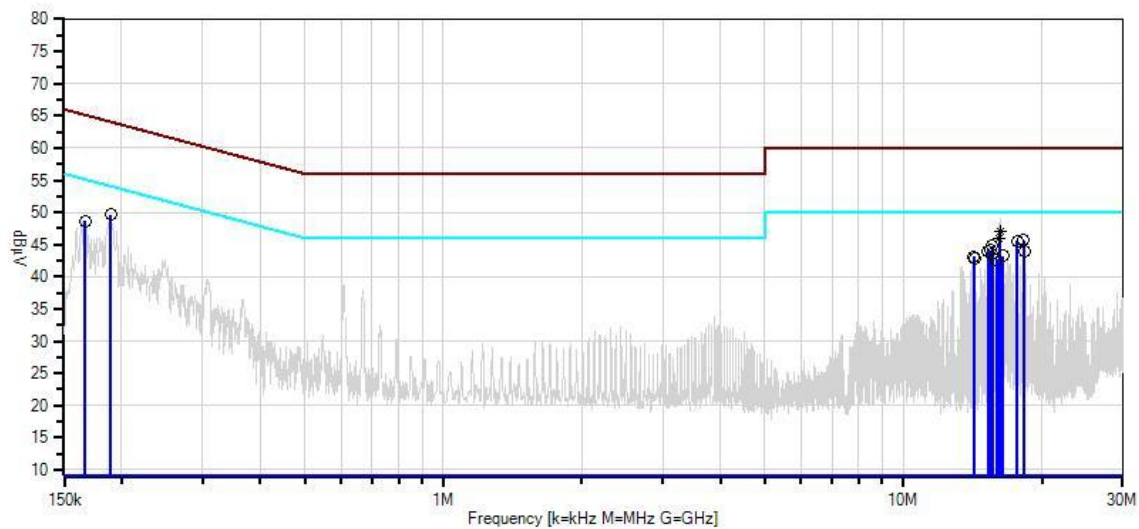
Reading listed by margin.

Test Lead: Black

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV	dBμV	dB	Ant
1	16.229M	36.6	+9.8	+0.2	+0.2	+0.1	+0.0	47.0	50.0	-3.0	Black
Ave			+0.1								
^	16.229M	38.7	+9.8	+0.2	+0.2	+0.1	+0.0	49.1	50.0	-0.9	Black
			+0.1								
3	16.166M	35.5	+9.8	+0.2	+0.2	+0.1	+0.0	45.9	50.0	-4.1	Black
Ave			+0.1								
^	16.166M	38.0	+9.8	+0.2	+0.2	+0.1	+0.0	48.4	50.0	-1.6	Black
			+0.1								
5	18.247M	35.6	+9.7	+0.1	+0.2	+0.1	+0.0	45.7	50.0	-4.3	Black
			+0.0								
6	17.697M	35.5	+9.7	+0.1	+0.2	+0.1	+0.0	45.6	50.0	-4.4	Black
			+0.0								
7	189.269k	39.4	+9.8	+0.3	+0.0	+0.0	+0.0	49.6	54.1	-4.5	Black
			+0.1								
8	15.616M	34.4	+9.8	+0.2	+0.2	+0.1	+0.0	44.8	50.0	-5.2	Black
			+0.1								
9	15.436M	33.7	+9.8	+0.2	+0.2	+0.1	+0.0	44.1	50.0	-5.9	Black
			+0.1								
10	15.256M	33.5	+9.8	+0.2	+0.2	+0.1	+0.0	43.9	50.0	-6.1	Black
			+0.1								
11	18.301M	33.8	+9.7	+0.1	+0.2	+0.1	+0.0	43.9	50.0	-6.1	Black
			+0.0								
12	166.726k	38.3	+9.8	+0.5	+0.0	+0.0	+0.0	48.6	55.1	-6.5	Black
			+0.0								
13	15.553M	33.0	+9.8	+0.2	+0.2	+0.1	+0.0	43.4	50.0	-6.6	Black
			+0.1								

14	16.472M	32.8	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	43.2	50.0	-6.8	Black
15	14.211M	32.8	+9.9 +0.0	+0.1	+0.2	+0.1	+0.0	43.1	50.0	-6.9	Black
16	14.274M	32.6	+9.9 +0.0	+0.1	+0.2	+0.1	+0.0	42.9	50.0	-7.1	Black
17	15.923M	32.3	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	42.7	50.0	-7.3	Black

CKC Laboratories, Inc. Date: 6/3/2012 Time: 21:21:40 Digital Path WO#: 92682
 15.207 AC Mains - Average Test Lead: Black 110V 60Hz Sequence#: 215 Black
 UNII Bands. 20MHz Channel width.



— Sweep Data
 ○ Peak Readings
 * Average Readings
 — 1 - 15.207 AC Mains - Average
 — Readings
 × QP Readings
 ▼ Ambient
 — 2 - 15.207 AC Mains - Quasi-peak

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **92682**
 Test Type: **Conducted Emissions**
 Equipment: **5GHz Panel (18dBi) + Omni (11dBi)**
 Manufacturer: **Digital Path**
 Model: **G5RL10G**
 S/N: **EMI 2**

Date: 6/3/2012
 Time: 21:20:12
 Sequence#: 216
 Tested By: E. Wong
 110V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP00081	Attenuator	PE7002-10	5/13/2011	5/13/2013
T2	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/2/2010	12/2/2012
T3	ANP05440	Cable		3/7/2011	3/7/2013
T4	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	AN00494	50uH LISN-Loss L1 (L) Black (dB)	3816/NM	3/29/2011	3/29/2013
T5	AN00494	50uH LISN-Loss L2 (N) White (dB)	3816/NM	3/29/2011	3/29/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2
Power Supply	Condor	STD-2427P	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

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Representing the worst case configuration for the product series, Receiver circuit and GPS receiver are active.

Freq: 5785MHz

BW= 10MHz

802.11a: 24 Mbps, TX power setting= 22

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 150kHz- 30MHz.

150 kHz-30 MHz; RBW=9 kHz, VBW=9kHz

Ext Attn: 0 dB

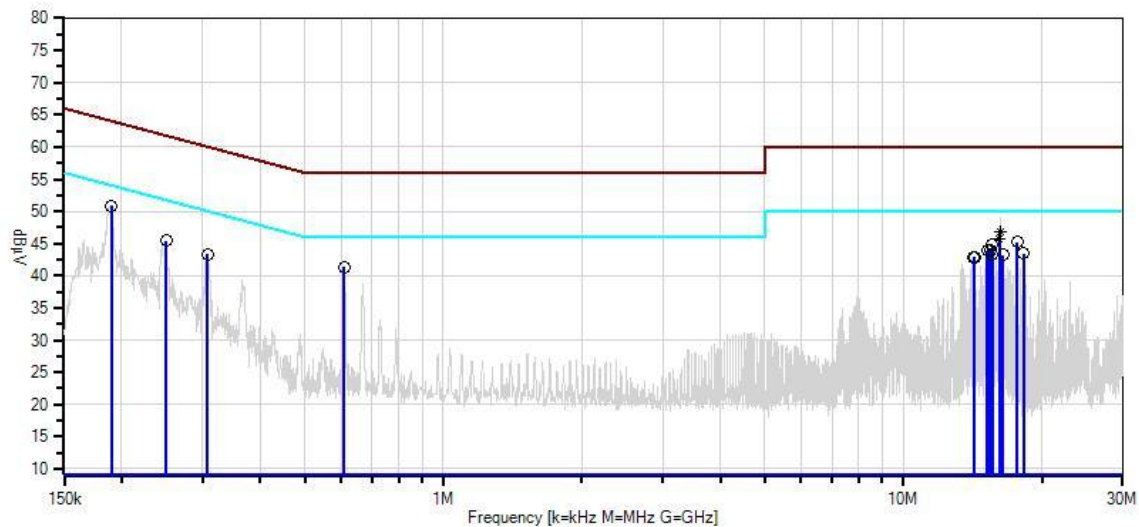
Measurement Data:

Reading listed by margin.

Test Lead: White

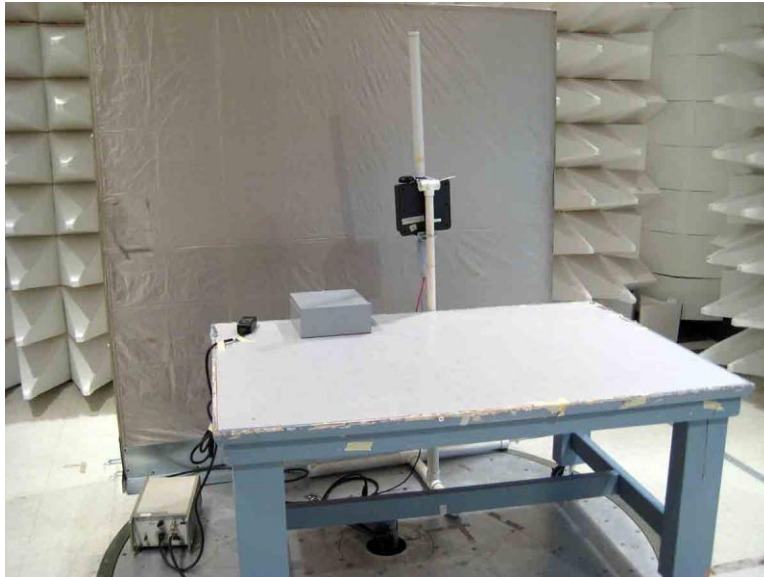
#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	189.996k	40.8	+9.8 +0.0	+0.3	+0.0	+0.0	+0.0	50.9	54.0	-3.1	White
2	16.229M Ave	36.5	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	46.9	50.0	-3.1	White
3	16.229M Ave	36.5	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	46.9	50.0	-3.1	White
4	16.229M Ave	36.5	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	46.9	50.0	-3.1	White
^	16.229M	38.8	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	49.2	50.0	-0.8	White
6	16.166M Ave	35.4	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	45.8	50.0	-4.2	White
^	16.166M	37.3	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	47.7	50.0	-2.3	White
8	608.867k	31.3	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	41.3	46.0	-4.7	White
9	17.688M	35.1	+9.7 +0.0	+0.1	+0.2	+0.1	+0.0	45.2	50.0	-4.8	White
10	15.616M	34.4	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	44.8	50.0	-5.2	White
11	15.247M	33.5	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	43.9	50.0	-6.1	White
12	15.436M	33.5	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	43.9	50.0	-6.1	White
13	250.354k	35.5	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	45.4	51.7	-6.3	White
14	18.247M	33.3	+9.7 +0.0	+0.1	+0.2	+0.1	+0.0	43.4	50.0	-6.6	White
15	15.553M	32.9	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	43.3	50.0	-6.7	White
16	307.804k	33.3	+9.8 +0.1	+0.1	+0.0	+0.0	+0.0	43.3	50.0	-6.7	White
17	16.472M	32.8	+9.8 +0.1	+0.2	+0.2	+0.1	+0.0	43.2	50.0	-6.8	White
18	14.211M	32.5	+9.9 +0.1	+0.1	+0.2	+0.1	+0.0	42.9	50.0	-7.1	White
19	14.274M	32.4	+9.9 +0.1	+0.1	+0.2	+0.1	+0.0	42.8	50.0	-7.2	White

CKC Laboratories, Inc. Date: 6/3/2012 Time: 21:20:12 Digital Path WO#: 92682
15.207 AC Mains - Average Test Lead: White 110V 60Hz Sequence#: 216 White
UNII Bands. 20MHz Channel width.



— Sweep Data	— Readings
○ Peak Readings	× QP Readings
* Average Readings	▼ Ambient
— 1 - 15.207 AC Mains - Average	— 2 - 15.207 AC Mains - Quasi-peak

Test Setup Photos



-6dBc Occupied Bandwidth

Test Conditions / Setup

The Emissions Bandwidth measurements were made using the automatic bandwidth capability of the spectrum analyzer using the settings set out in KDB "558704 D01 DTS Meas Guidance v01", Section 5.1.1. The units are dBm.

Engineer Name: C. Nicklas

Test Equipment					
Asset/Serial #	Description	Model	Manufacturer	Cal Date	Cal Due
02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
P05843	Cable	32022-2-29094K-48TC	AstroLab	7/30/2010	7/30/2012
P05935	Attenuator	84A-10	Weinschel	10/19/2011	10/19/2013

Plot Name Key

C1 – Chain 0
 C2 – Chain 2
 LO – LO Channel
 MID – MID Channel
 HI – HI Channel
 a – 802.11a
 n – 802.11n
 10M – System 10MHz Channel Width
 20 M– System 20MHz Channel Width

FCC 15.247(a)(2) – 6dB Bandwidth Measurements – for 10MHz System Channel Width

	Chain 0 – 6dB Bandwidth (MHz)		Chain 2 – 6dB Bandwidth (MHz)	
Channel	802.11a	802.11n	802.11a	802.11n
LO - 5735	8.346	9.141	8.376	9.001
MID – 5785	8.404	8.921	8.345	9.062
HI – 5840	8.304	8.909	8.342	9.101

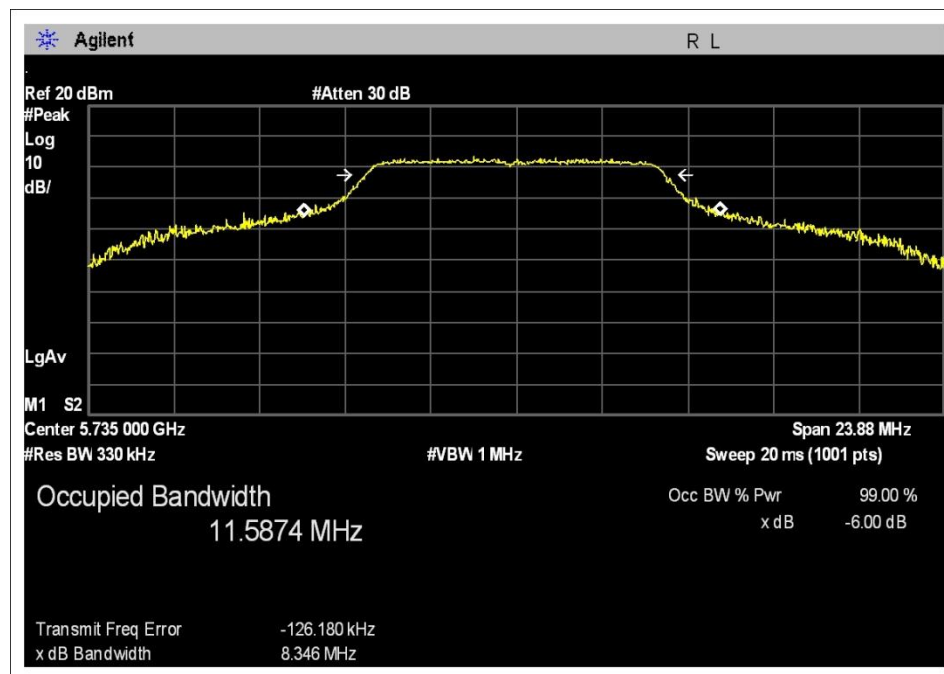
Worst Case 802.11a data rate is 24 Mbps, worst case 802.11n data rate is 13MCS HT20 2S.

FCC 15.247(a)(2) – 6dB Bandwidth Measurements – for 20MHz System Channel Width

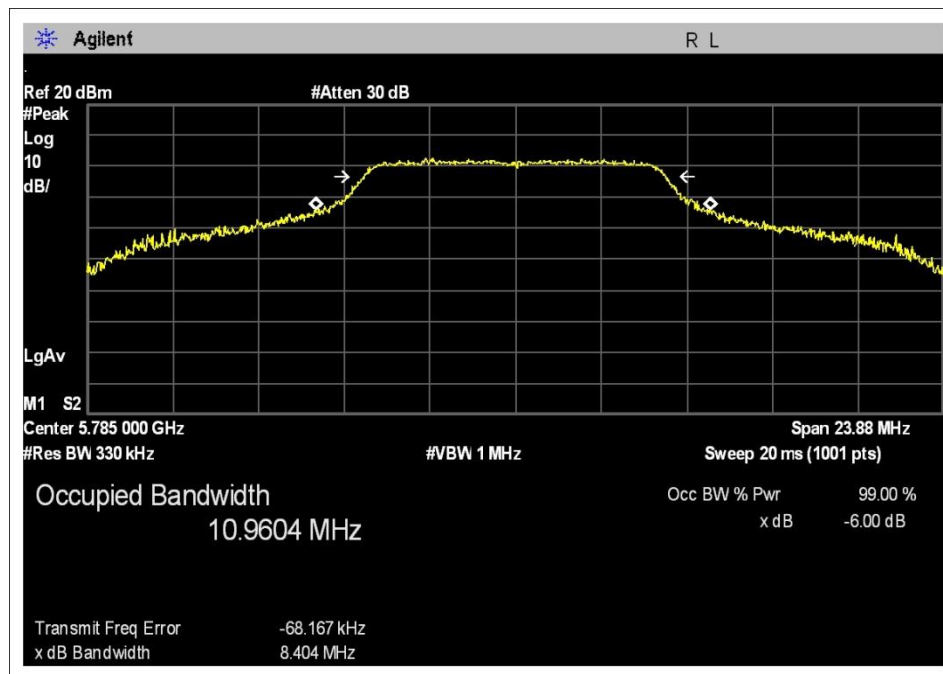
	Chain 0 – 6dB Bandwidth (MHz)		Chain 2 – 6dB Bandwidth (MHz)	
Channel	802.11a	802.11n	802.11a	802.11n
LO - 5740	16.343	17.566	16.498	17.667
MID – 5785	16.349	17.541	16.456	17.679
HI – 5835	16.456	17.679	16.462	17.741

Worst Case 802.11a data rate is 36 Mbps, worst case 802.11n data rate is 26MCS HT20 2S.

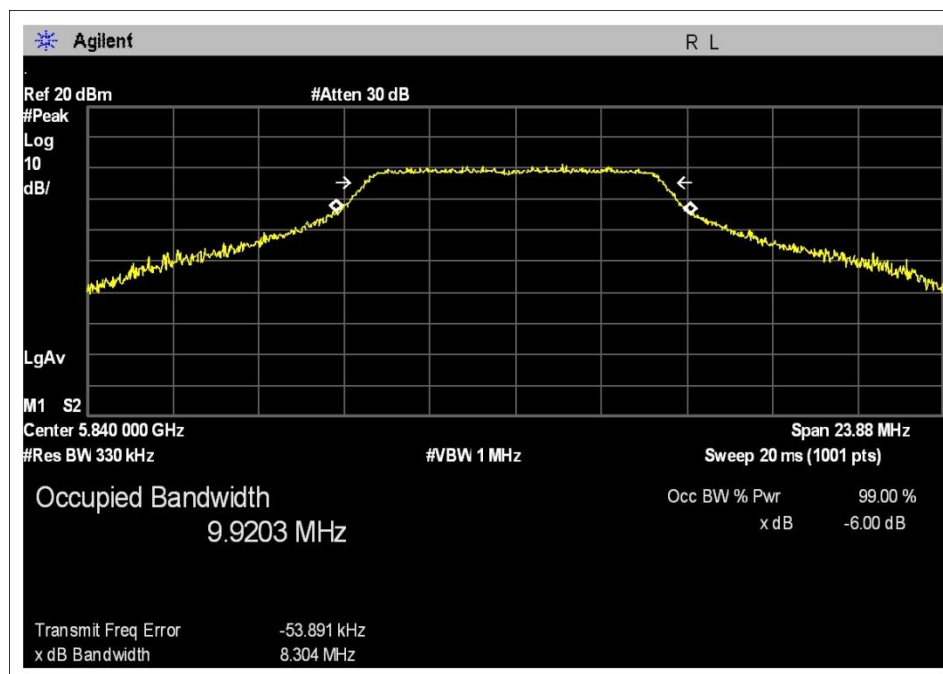
Test Plots



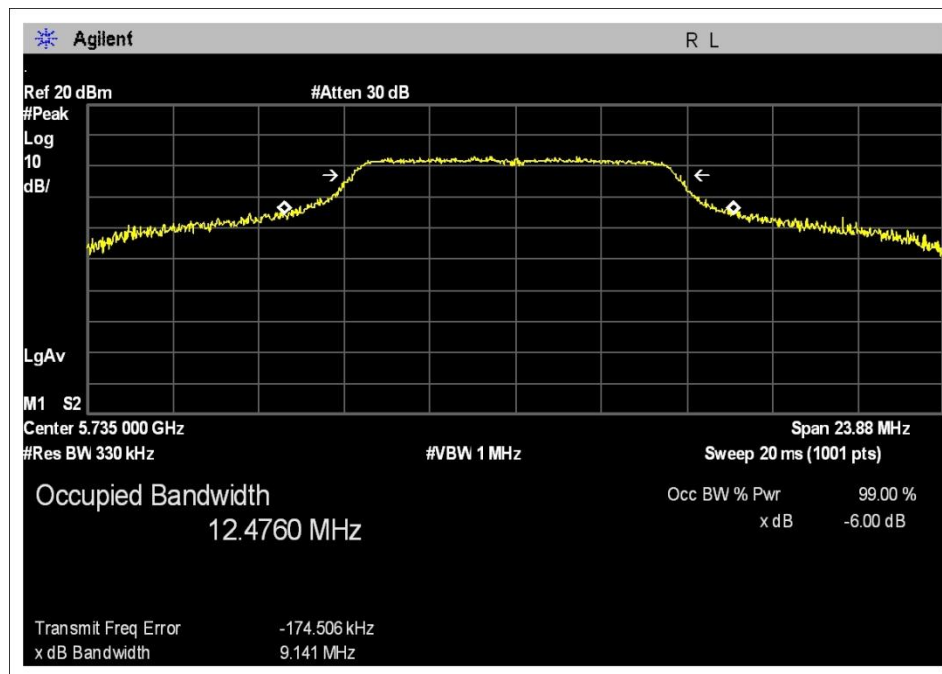
C0 10MHz, LOW CHANNEL, 802.11a



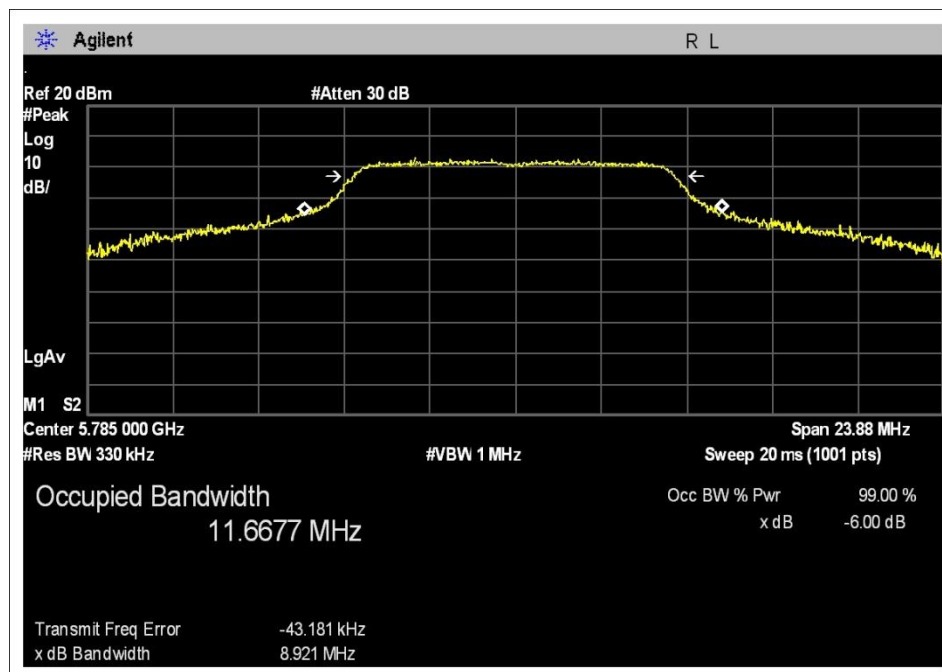
C0 10MHz, MID CHANNEL, 802.11a



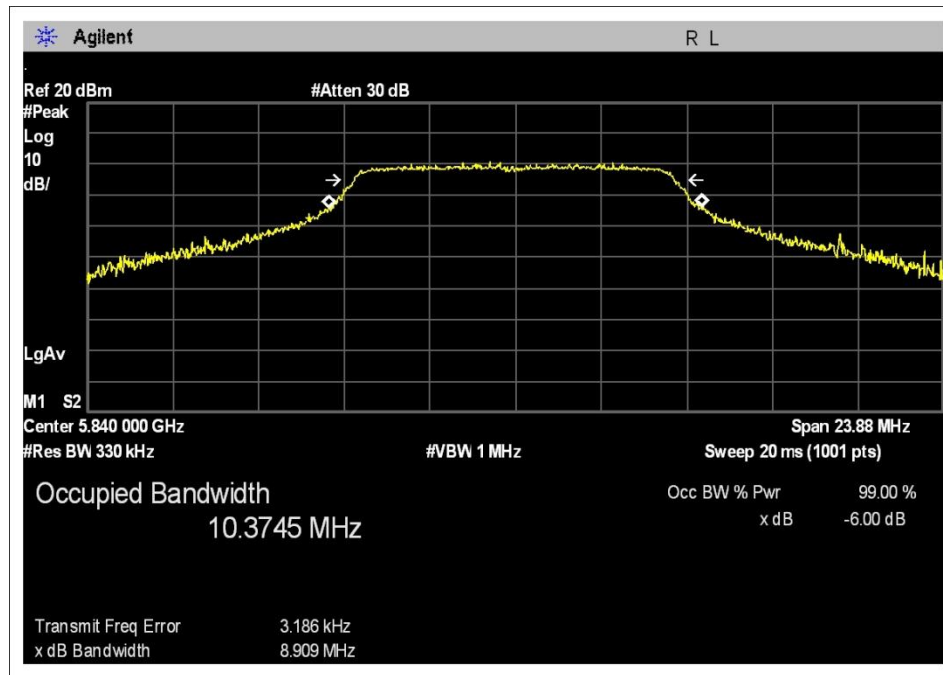
C0 10MHz, HIGH CHANNEL, 802.11a



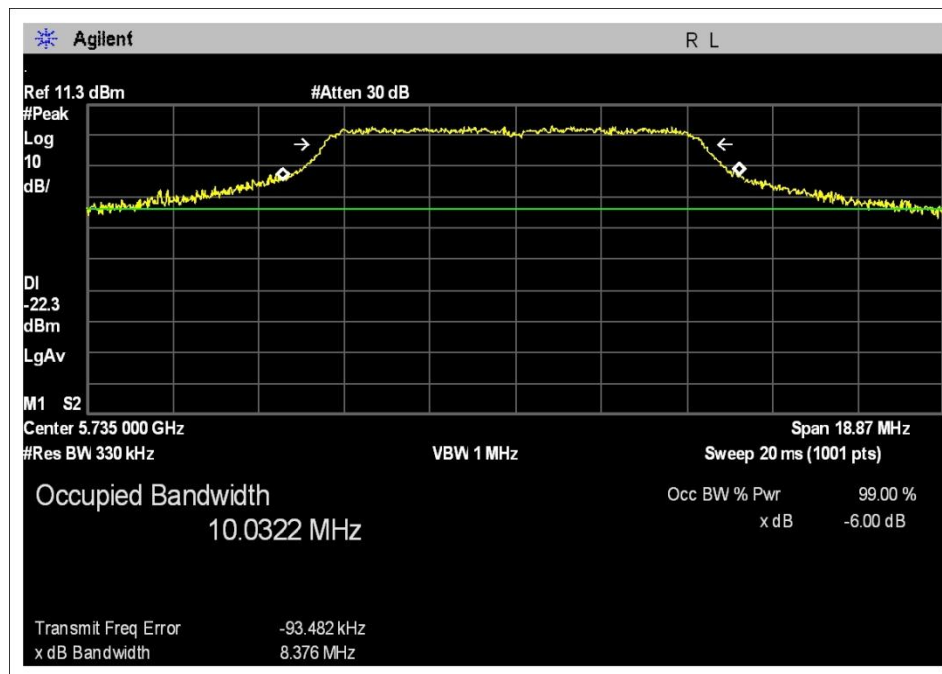
C0 10MHz, LOW CHANNEL, 802.11n



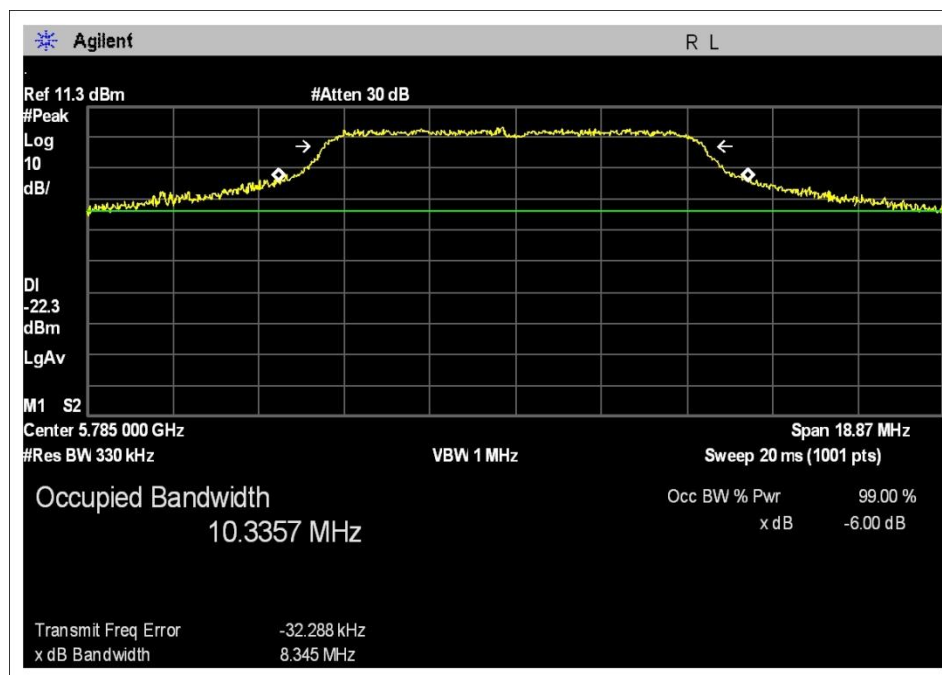
C0 10MHz, MID CHANNEL, 802.11n



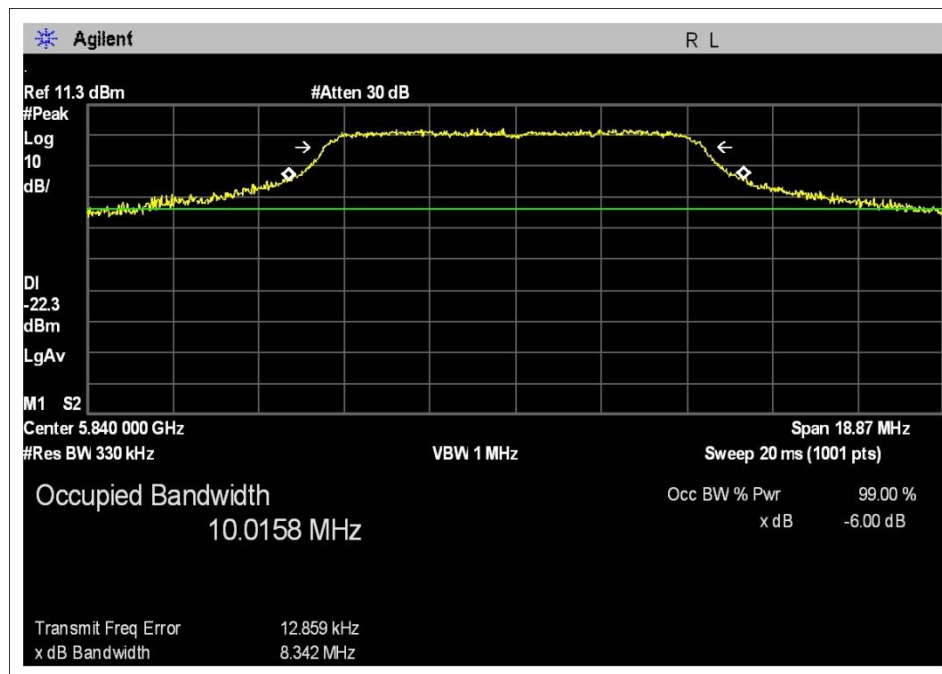
C0 10MHz, HIGH CHANNEL, 802.11n



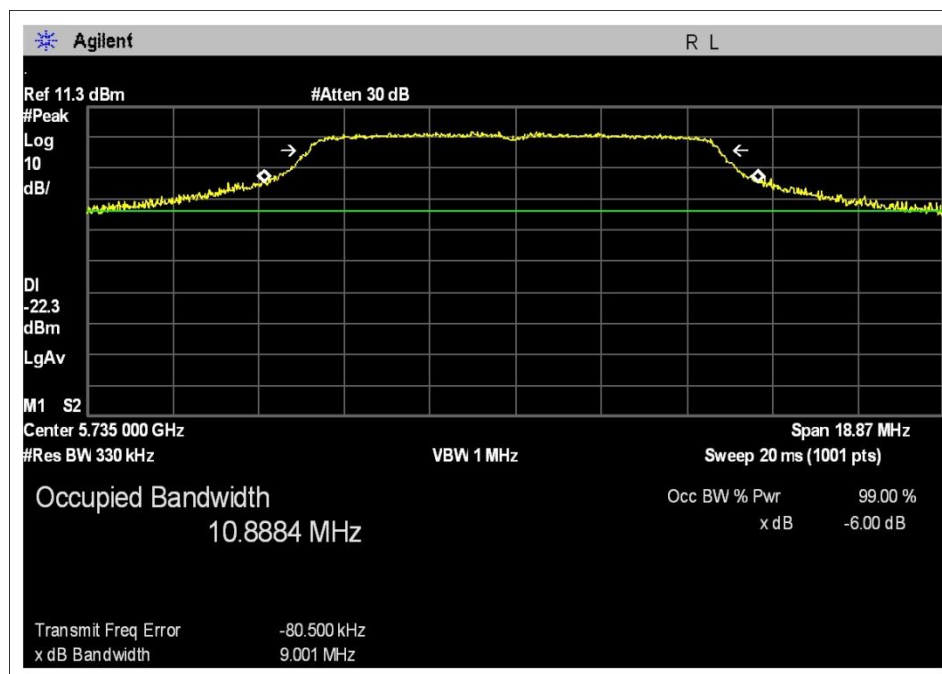
C2 10MHz, LOW CHANNEL, 802.11a



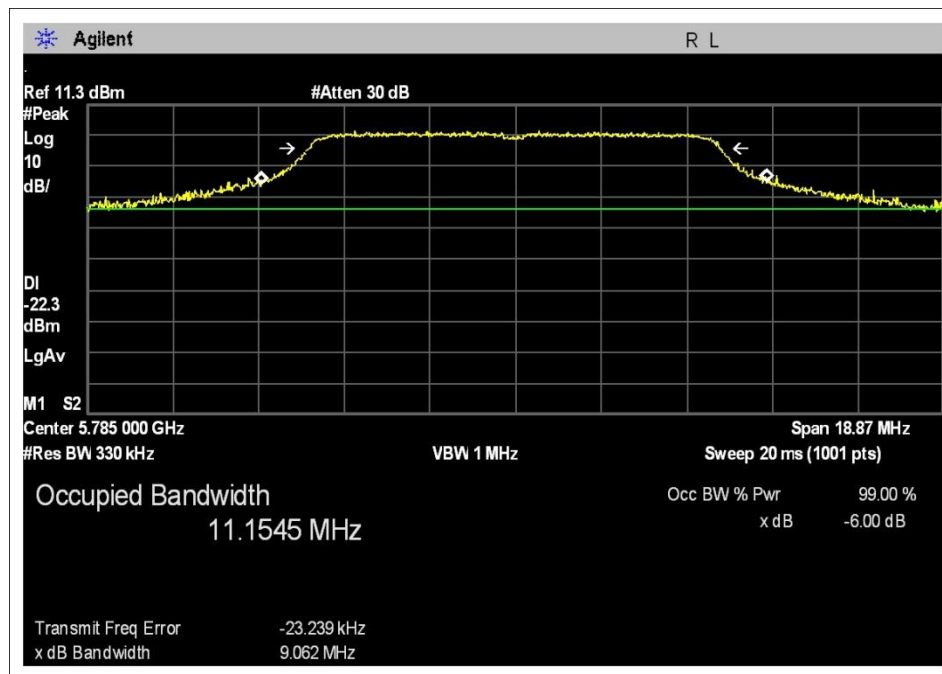
C2 10MHz, MID CHANNEL, 802.11a



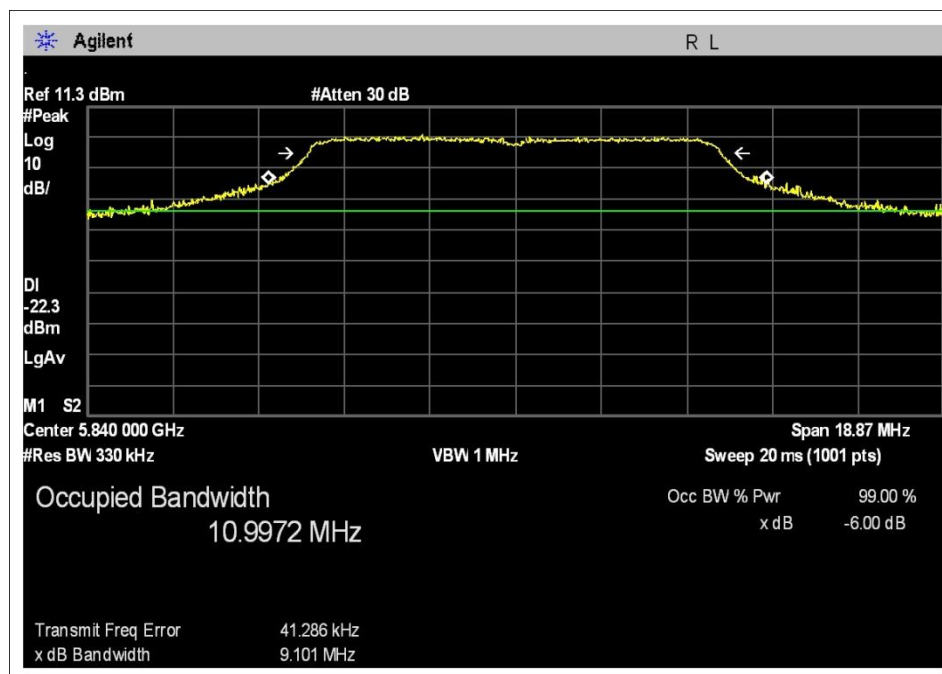
C2 10MHz, HIGH CHANNEL, 802.11a



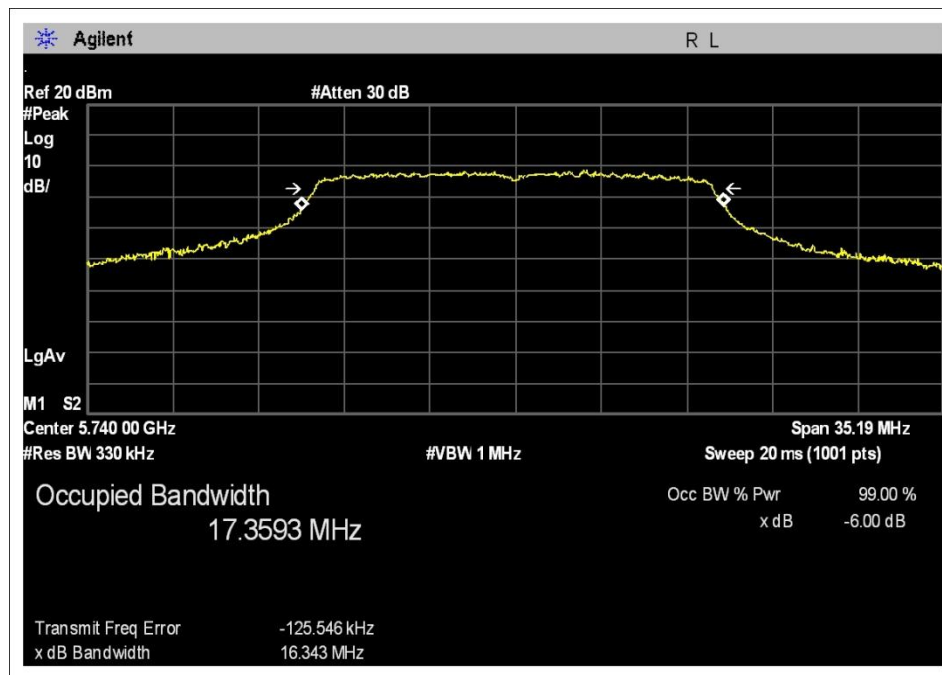
C2 10MHz, LOW CHANNEL, 802.11n



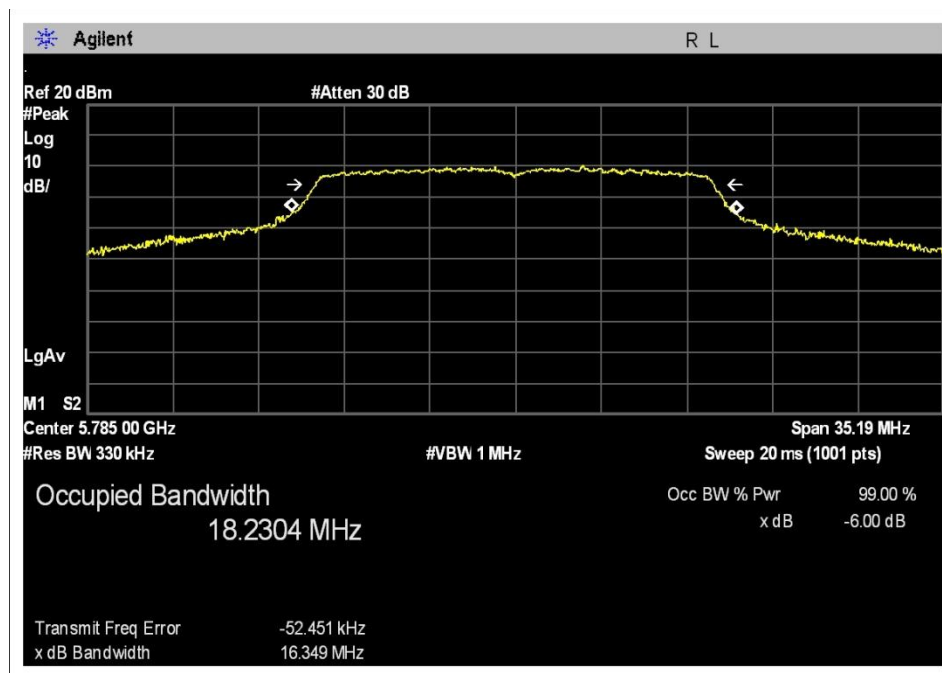
C2 10MHz, MID CHANNEL, 802.11n



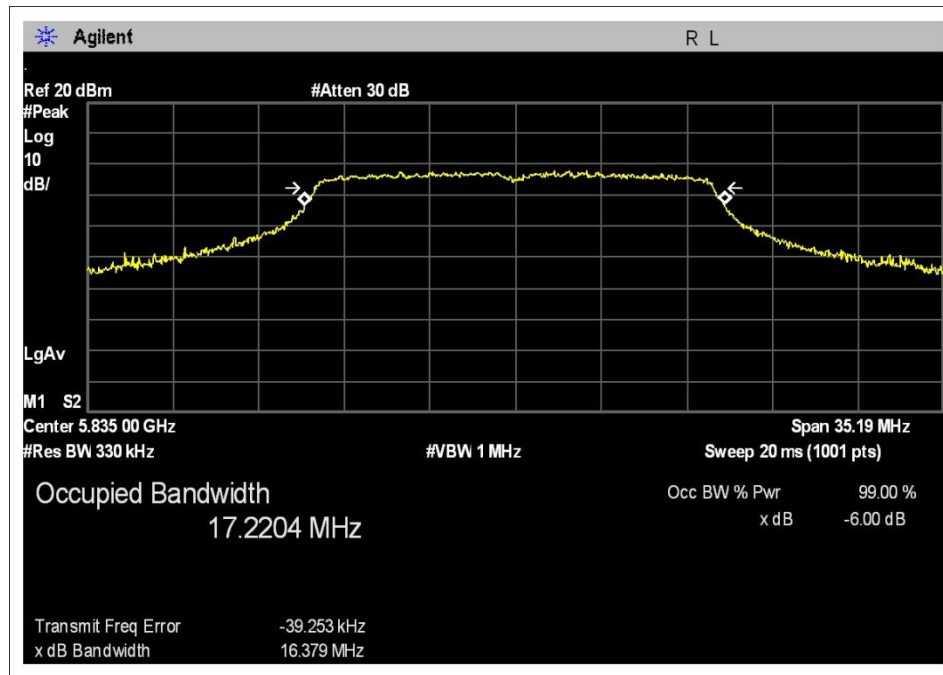
C2 10MHz, HIGH CHANNEL, 802.11n



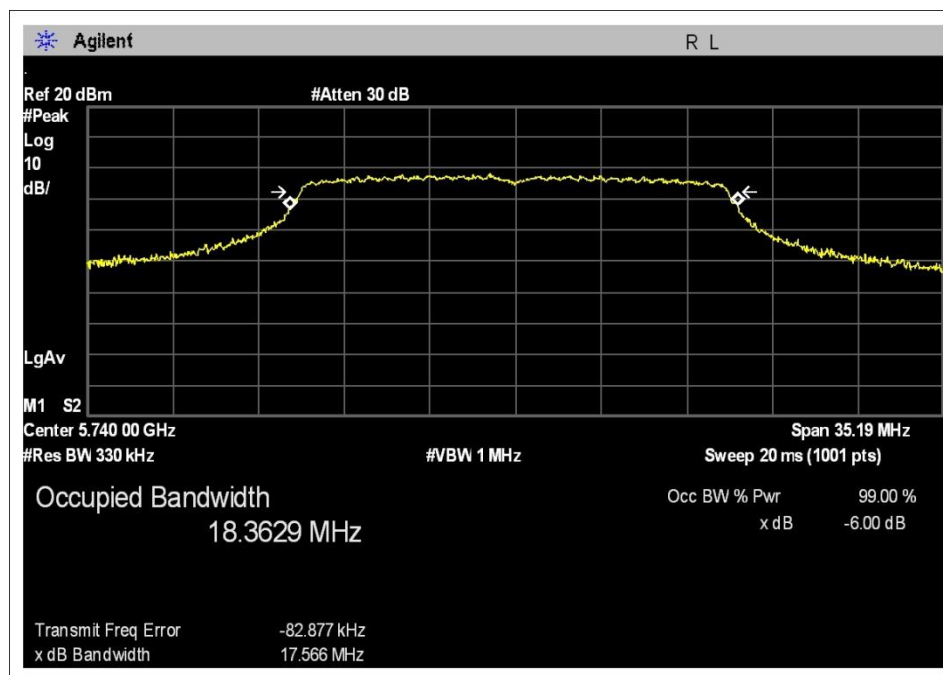
CO 20MHz, LOW CHANNEL, 802.11a



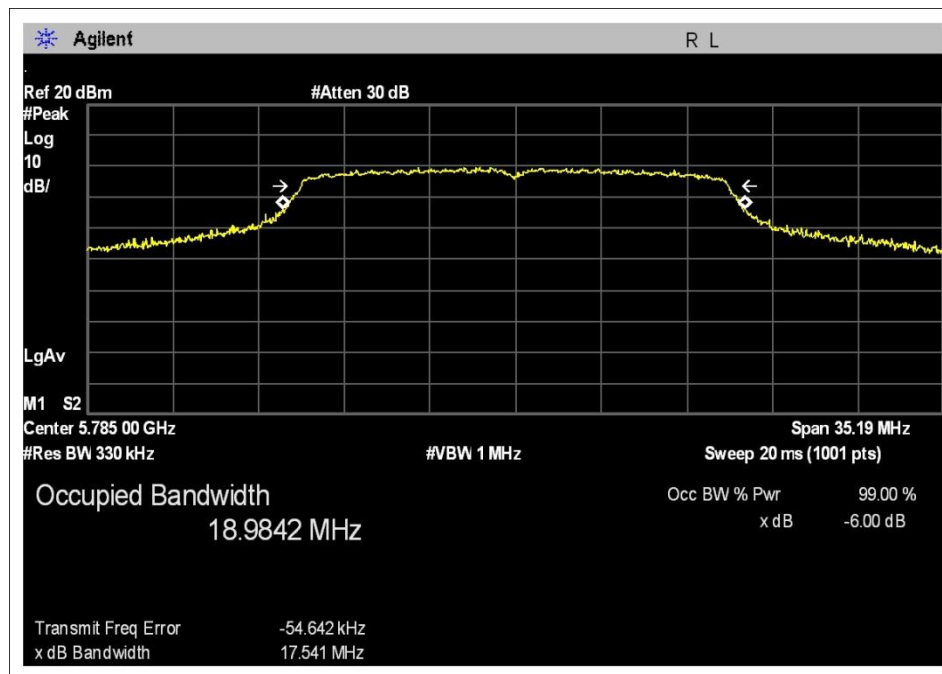
CO 20MHz, MID CHANNEL, 802.11a



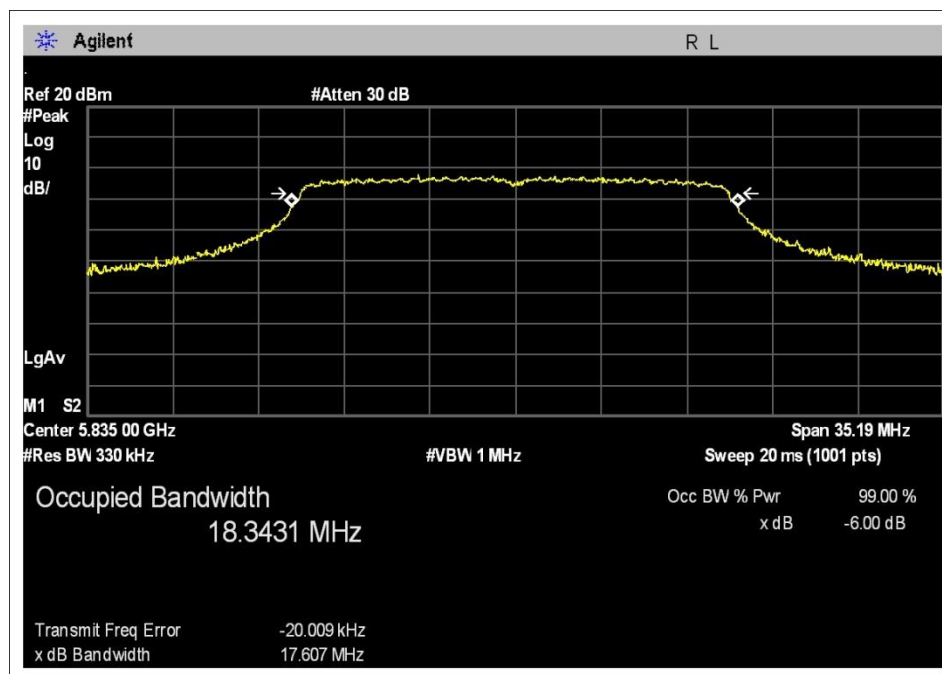
C0 20MHz, HIGH CHANNEL, 802.11a



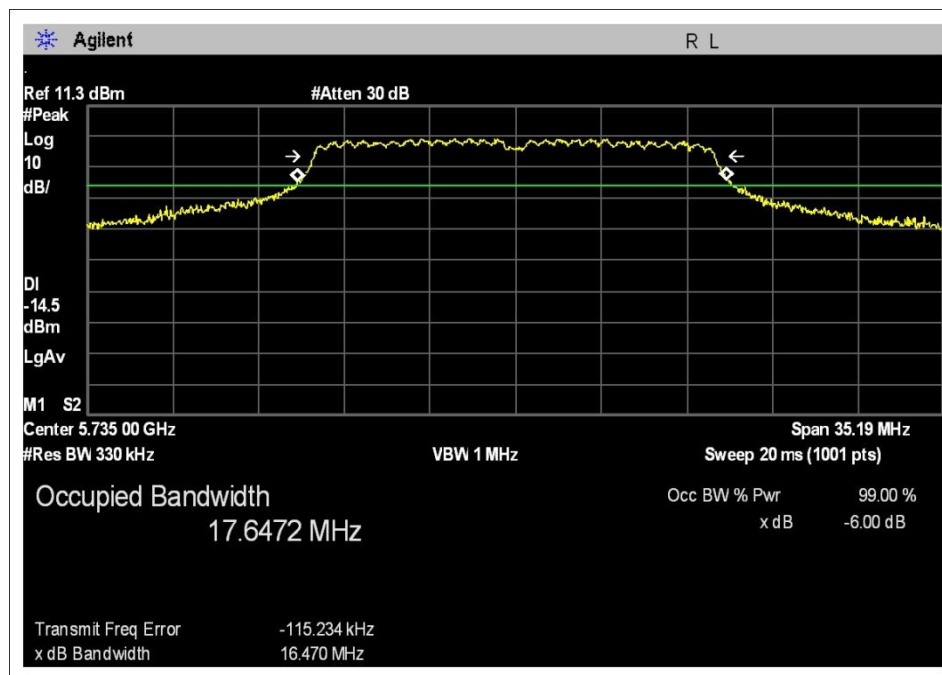
C0 20MHz, LOW CHANNEL, 802.11n



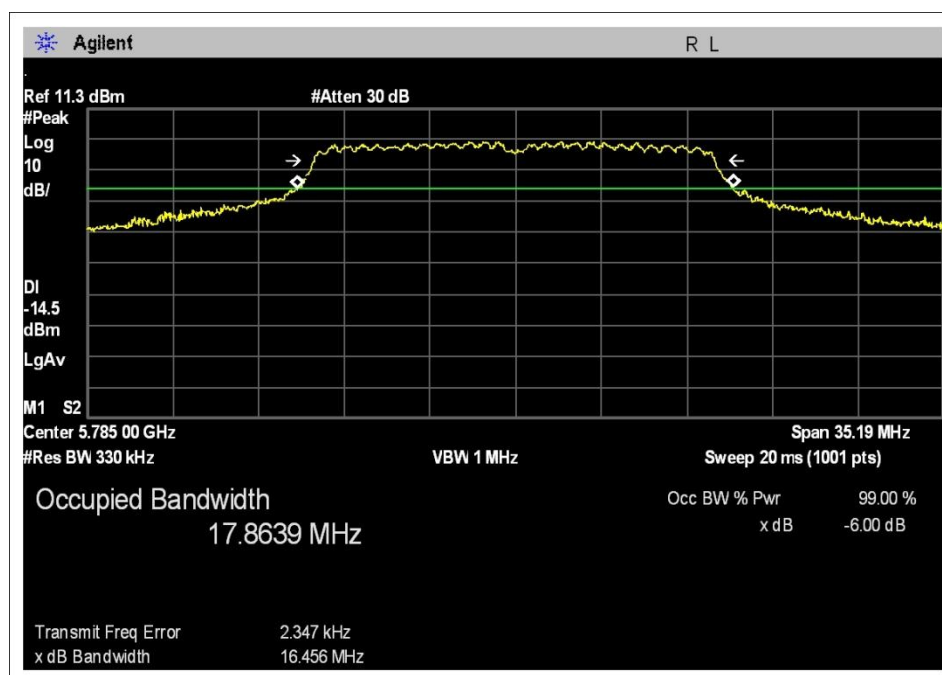
C0 20MHz, MID CHANNEL, 802.11n



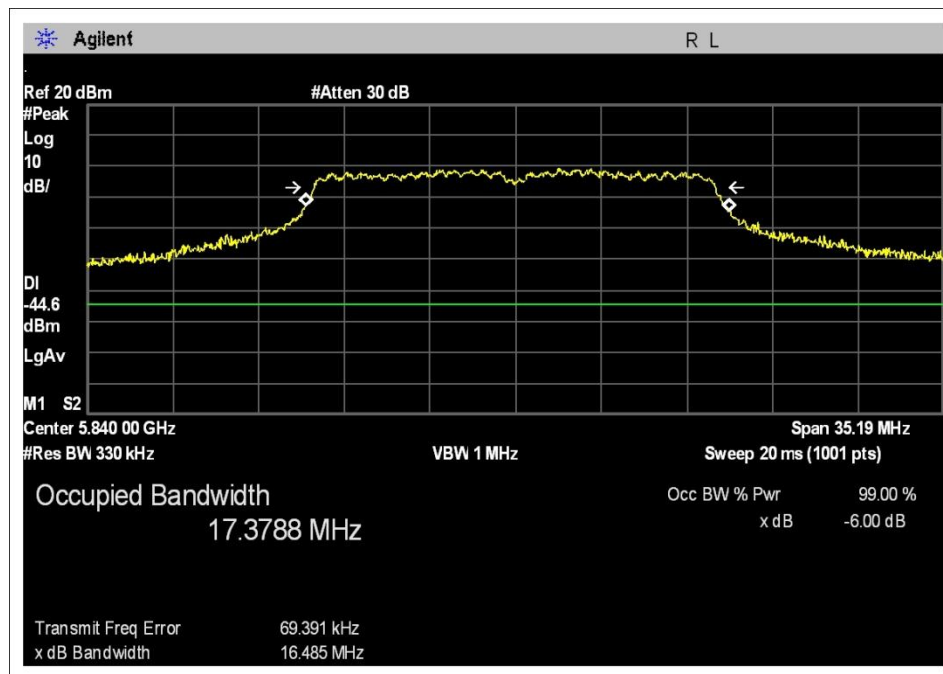
C0 20MHz, HIGH CHANNEL, 802.11n



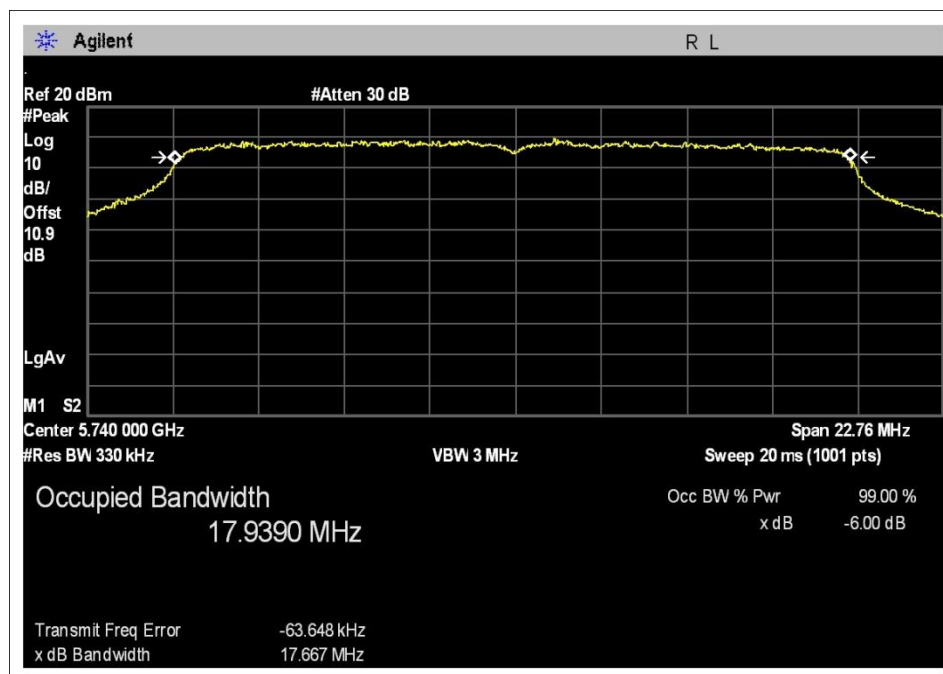
C2 20MHz, LOW CHANNEL, 802.11a



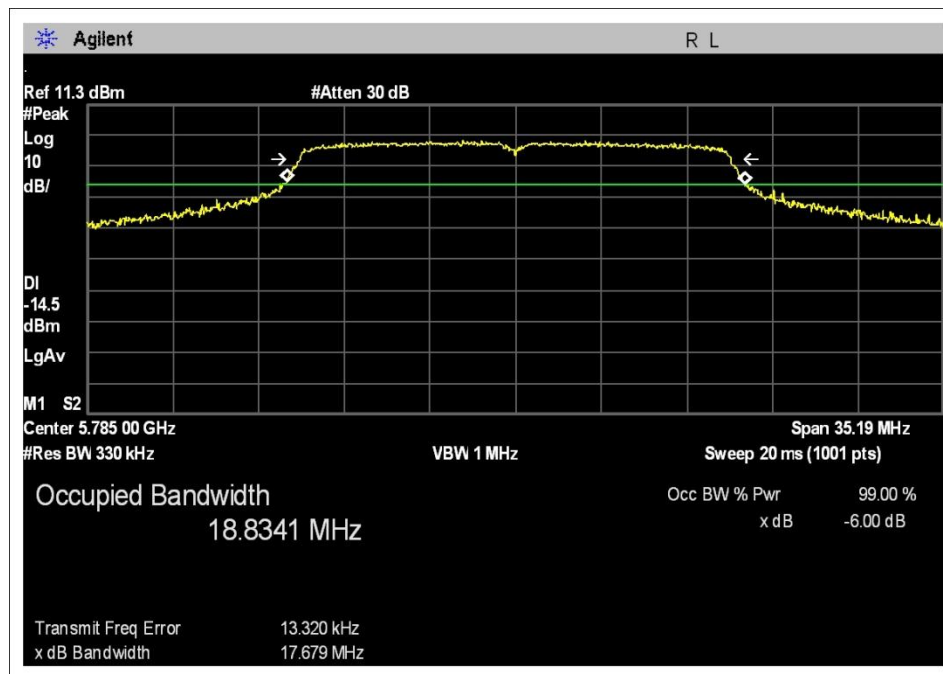
C2 20MHz, MID CHANNEL, 802.11a



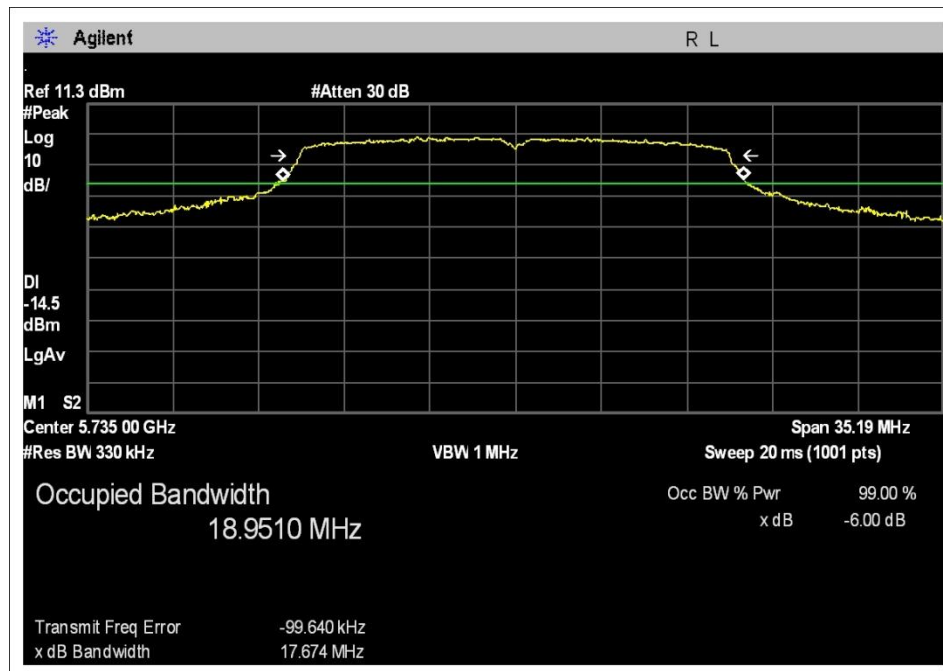
C2 20MHz, HIGH CHANNEL, 802.11a



C2 20MHz, LOW CHANNEL, 802.11n



C2 20MHz, MID CHANNEL, 802.11n



C2 20MHz, HIGH CHANNEL, 802.11n

Test Setup Photos

