



**HONEYWELL INTERNATIONAL INC.
ADDENDUM TO TEST REPORT FC07-089A**

FOR THE

WIRELESS ETHERNET CLIENT BRIDGE, 965-1702-001R

**FCC PART 15 SUBPART C SECTIONS 15.209 & 15.247,
SUBPART B SECTION 15.109 CLASS B AND RSS-210 ISSUE 7**

TESTING

DATE OF ISSUE: MAY 26, 2010

PREPARED FOR:

Honeywell International Inc.
15001 NE 36th St.
Redmond, WA 98052

PREPARED BY:

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CKC Laboratories, Inc.
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Date of test: May 19, 2010

Report No.: FC07-089B

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ADMINISTRATIVE INFORMATION

DATE OF TEST: May 19, 2010

DATE OF RECEIPT: May 19, 2010

REPRESENTATIVE: Yuwu Zhang

MANUFACTURER:

Honeywell International Inc.
15001 NE 36th St.
Redmond, WA 98052

TEST LOCATION:

CKC Laboratories, Inc.
22116 23rd Drive S.E., Suite A
Bothell, WA 98021-4413

TEST METHOD: ANSI C63.4 (2003), RSS-210 Issue 7 and RSS GEN Issue 2

PURPOSE OF TEST:

Original Report: To perform the testing of the Wireless LAN Unit, 965-1702-001 with the requirements for FCC Part 15 Subpart C Sections 15.209 & 15.247 and Subpart B Section 15.109 Class B and RSS-210 devices.

Addendum A: To correct the test conditions on pages 10 and 13 with no new testing.

Addendum B: To perform testing of the Wireless Ethernet client bridge, 965-1702-001R to validate that the test data has not changed from original testing. Note: RF Power Output original average measurements were replaced with peak measurements.

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.

A handwritten signature in black ink, reading "Steve Behm", is written over a horizontal line.

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

FCC TO CANADA STANDARD CORRELATION MATRIX

Canadian Standard	Canadian Section	FCC Standard	FCC Section	Test Description
RSS GEN	7.1.4	47CFR	15.203	Antenna Connector Requirements
RSS GEN	7.2.1	47CFR	15.35(c)	Pulsed Operation
RSS GEN	7.2.2	47CFR	15.207	AC Mains Conducted Emissions Requirement
RSS 210	2.1	47CFR	15.215(c)	Frequency Stability Recommendation
RSS 210	2.2	47CFR	15.205	Restricted Bands of Operation
RSS 210	2.6	47CFR	15.209	General Radiated Emissions Requirement
RSS 210	A8.2(1)	47CFR	15.247(a)(2)	Minimum 6dB Bandwidth
RSS 210	A8.2(2)	47CFR	15.247(e)	Peak Power Spectral Density
RSS 210	A8.4(4)	47CFR	15.247(b)(3)	RF Power Output
RSS 210	A8.4(4)	NA	NA	EIRP Limit
RSS 210	A8.4(5)	47CFR	15.247(c)(1)	Directional Gain Requirements
RSS 210	A8.4(6)	47CFR	15.247(c)(2)	Beam Steering Antennas
RSS 210	A8.5	47CFR	15.247(d)	Spurious Emissions
	IC 4653		318736	Site File No.

CONDITIONS DURING TESTING

The 2010 data recorded for this equipment correlates with the original test results.

FCC 15.31(e) Voltage Variations

Voltage Variations were checked at the time of RF output power test and no measurable change was found.

FCC 15.31(m) Number Of Channels

This device was tested on three channels.

FCC 15.33(a) Frequency Ranges Tested

15.109 Radiated Emissions: 30 MHz – 1000 MHz

15.209/15.247 Radiated Emissions: 9 kHz – 25 GHz

FCC SECTION 15.35: ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	?? GHz	1 MHz

FCC 15.203 Antenna Requirements

The antenna is professionally installed; therefore the EUT complies with Section 15.203 of the FCC rules.

EUT Operating Frequency

The EUT is a direct sequencing device tested at 2412 – 2462 MHz operating in the 2400 – 2483.5 MHz band.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

The following model was tested by CKC Laboratories: **965-1702-001R**

Since the time of testing the manufacturer has chosen to use the following model name in its place. Any differences between the names does not affect their EMC characteristics and therefore meets the level of testing equivalent to the tested model name shown on the data sheets: **965-1702-001**.

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: **965-1702-001, 965-1702-001R**

EQUIPMENT UNDER TEST

Wireless LAN Unit

Manuf: Honeywell International Inc.
Model: 965-1702-001R
Serial: WLU-00208

2.4 GHz S-Band Antenna

Manuf: Honeywell International Inc.
Sensor Systems Part No: S65-5366-31SR
Model: 956-0033-002
Serial: 235-0348

2.4 GHz L-Band Antenna

Manuf: Honeywell International Inc.
Sensor Systems Part No: S65-5366-71SR
Model: 956-0033-001
Serial: 258-1471

PERIPHERAL DEVICES

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

3COM OfficeConnect Wireless 11g Access

Point

Manuf: 3COM
Model: 3CRWE454G72 or equiv.
Serial: NA

WLU Breakout Box

Manuf: Honeywell International Inc.
Model: 951-0456-003
Serial: NA

WLU WiFi Antenna

Manuf: Sensor Systems
Model: PNR 956-0033-001R
Serial: 258-1262

PC / Laptop

Manuf: Various
Model: 700-8846-009 or equiv.
Serial: NA

REPORT OF EMISSIONS MEASUREMENTS

TESTING PARAMETERS

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.

The relative humidity was between 20% and 75%.

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dB μ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. The following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings were recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.

FCC 15.109 – RADIATED EMISSIONS

ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz

Test Setup Photos



Test Data Sheets

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**

Specification: **15.109 CLASS B**

Work Order #: **86870**

Date: 7/26/2007

Test Type: **Radiated Scan**

Time: 20:26:48

Equipment: **Wireless LAN Unit**

Sequence#: 1

Manufacturer: Honeywell International

Tested By: Ryan Rutledge

Model: 965-1702-001R

S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
Bothell 5m Cable Set	S/N: P05444	04/26/2007	04/26/2009	ANP05444
20' RG-214 Coax	S/N: 16	11/09/2006	11/09/2008	ANP05360
HP 8447D PreAmp	S/N: 2944A08601	07/10/2006	07/10/2008	AN01517
Chase BILOG	S/N: 2458	01/31/2007	01/31/2009	AN01993

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU connected to access point verified and WiFi in standby mode. Frequency range tested: 30-1000 MHz.

Transducer Legend:

T1=ANT AN01993 25-1000MHz	T2=AMP-AN01517-071006
T3=CAB-ANP05444-042607 - CPC3 Cable Set	T4=CAB-ANP05360-110906

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	250.002M	53.2	+12.8	-27.0	+1.4	+0.9	+0.0	41.3	46.0	-4.7	Vert
	QP						31				100
^	250.008M	53.4	+12.8	-27.0	+1.4	+0.9	+0.0	41.5	46.0	-4.5	Vert
							32				100
3	468.749M	47.2	+17.4	-27.9	+2.0	+1.2	+0.0	39.9	46.0	-6.1	Vert
	QP						188				100
^	468.747M	48.4	+17.4	-27.9	+2.0	+1.2	+0.0	41.1	46.0	-4.9	Vert
							188				100
5	312.500M	50.1	+13.8	-27.1	+1.6	+0.9	+0.0	39.3	46.0	-6.7	Vert
	QP						33				100
^	312.501M	50.8	+13.8	-27.1	+1.6	+0.9	+0.0	40.0	46.0	-6.0	Vert
							33				100

7	248.066M QP	51.2	+12.7	-27.0	+1.4	+0.9	+0.0 313	39.2	46.0	-6.8	Vert 100
^	248.067M	52.9	+12.7	-27.0	+1.4	+0.9	+0.0 313	40.9	46.0	-5.1	Vert 100
9	310.084M QP	48.7	+13.7	-27.0	+1.6	+0.9	+0.0 30	37.9	46.0	-8.1	Vert 100
^	310.081M	49.7	+13.7	-27.0	+1.6	+0.9	+0.0 30	38.9	46.0	-7.1	Vert 100
11	781.248M QP	40.0	+22.0	-28.5	+2.5	+1.8	+0.0 312	37.8	46.0	-8.2	Vert 100
^	781.247M	42.0	+22.0	-28.5	+2.5	+1.8	+0.0 312	39.8	46.0	-6.2	Vert 100
13	300.015M	45.6	+13.4	-27.0	+1.5	+0.9	+0.0 360	34.4	46.0	-11.6	Vert 100
14	625.040M	39.0	+20.0	-28.5	+2.3	+1.4	+0.0 360	34.2	46.0	-11.8	Vert 100
15	47.802M	43.8	+10.2	-27.7	+0.8	+0.4	+0.0 360	27.5	40.0	-12.5	Vert 100
16	55.982M QP	46.9	+6.7	-27.6	+0.8	+0.5	+0.0 360	27.3	40.0	-12.7	Vert 100
^	55.966M	50.7	+6.7	-27.6	+0.8	+0.5	+0.0 360	31.1	40.0	-8.9	Vert 100
18	275.063M	44.4	+13.1	-27.0	+1.5	+0.9	+0.0 360	32.9	46.0	-13.1	Vert 100
19	48.434M	43.6	+9.7	-27.7	+0.8	+0.4	+0.0 360	26.8	40.0	-13.2	Vert 100
20	55.289M	45.2	+6.9	-27.6	+0.8	+0.5	+0.0 360	25.8	40.0	-14.2	Vert 100
21	56.553M	45.3	+6.5	-27.6	+0.8	+0.5	+0.0 360	25.5	40.0	-14.5	Vert 100
22	49.000M	42.5	+9.3	-27.7	+0.8	+0.4	+0.0 360	25.3	40.0	-14.7	Vert 100
23	372.074M	40.6	+15.3	-27.5	+1.7	+1.1	+0.0 360	31.2	46.0	-14.8	Vert 100
24	45.206M	39.0	+12.3	-27.6	+0.7	+0.4	+0.0 360	24.8	40.0	-15.2	Vert 100
25	937.498M	29.8	+23.8	-27.7	+2.8	+2.0	+0.0 360	30.7	46.0	-15.3	Vert 100
26	744.140M	33.4	+21.4	-28.5	+2.4	+1.7	+0.0 360	30.4	46.0	-15.6	Vert 100
27	45.839M	39.0	+11.8	-27.6	+0.7	+0.4	+0.0 360	24.3	40.0	-15.7	Vert 100
28	48.068M	40.8	+10.0	-27.7	+0.8	+0.4	+0.0 360	24.3	40.0	-15.7	Vert 100
29	47.103M	39.9	+10.8	-27.6	+0.7	+0.4	+0.0 360	24.2	40.0	-15.8	Vert 100
30	870.606M	30.4	+23.1	-28.0	+2.7	+1.9	+0.0 360	30.1	46.0	-15.9	Vert 100
31	806.223M	31.6	+22.4	-28.4	+2.6	+1.8	+0.0 360	30.0	46.0	-16.0	Vert 100

32	844.999M	30.8	+22.8	-28.0	+2.6	+1.8	+0.0	30.0	46.0	-16.0	Vert
							360				100
33	46.171M	38.7	+11.5	-27.6	+0.7	+0.4	+0.0	23.7	40.0	-16.3	Vert
							360				100
34	956.416M	28.5	+24.0	-27.6	+2.8	+2.0	+0.0	29.7	46.0	-16.3	Vert
							360				100
35	425.020M	37.8	+16.5	-27.8	+1.9	+1.2	+0.0	29.6	46.0	-16.4	Vert
							360				100
36	496.096M	36.7	+17.9	-28.2	+2.0	+1.2	+0.0	29.6	46.0	-16.4	Vert
							360				100
37	882.626M	29.6	+23.2	-27.9	+2.7	+1.9	+0.0	29.5	46.0	-16.5	Vert
							360				100

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**

Specification: **15.109 CLASS B**

Work Order #: **86870**

Date: 7/26/2007

Test Type: **Radiated Scan**

Time: 21:01:34

Equipment: **Wireless LAN Unit**

Sequence#: 2

Manufacturer: Honeywell International

Tested By: Ryan Rutledge

Model: 965-1702-001R

S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
Bothell 5m Cable Set	S/N: P05444	04/26/2007	04/26/2009	ANP05444
20' RG-214 Coax	S/N: 16	11/09/2006	11/09/2008	ANP05360
HP 8447D PreAmp	S/N: 2944A08601	07/10/2006	07/10/2008	AN01517
Chase BILOG	S/N: 2458	01/31/2007	01/31/2009	AN01993

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

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WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

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T3=CAB-ANP05444-042607 - CPC3 Cable Set	T4=CAB-ANP05360-110906

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	312.500M	53.5	+13.8	-27.1	+1.6	+0.9	+0.0	42.7	46.0	-3.3	Horiz
	QP						73				101
^	312.496M	54.2	+13.8	-27.1	+1.6	+0.9	+0.0	43.4	46.0	-2.6	Horiz
							73				101
3	250.006M	54.6	+12.8	-27.0	+1.4	+0.9	+0.0	42.7	46.0	-3.3	Horiz
	QP						194				100
^	250.011M	58.3	+12.8	-27.0	+1.4	+0.9	+0.0	46.4	46.0	+0.4	Horiz
							194				100
5	248.066M	54.2	+12.7	-27.0	+1.4	+0.9	+0.0	42.2	46.0	-3.8	Horiz
	QP						194				100
^	248.051M	55.4	+12.7	-27.0	+1.4	+0.9	+0.0	43.4	46.0	-2.6	Horiz
							194				100

7	275.004M	51.8	+13.1	-27.0	+1.5	+0.9	+0.0	40.3	46.0	-5.7	Horiz
	QP						253				100
^	274.999M	53.0	+13.1	-27.0	+1.5	+0.9	+0.0	41.5	46.0	-4.5	Horiz
							253				100
9	468.749M	46.8	+17.4	-27.9	+2.0	+1.2	+0.0	39.5	46.0	-6.5	Horiz
	QP						285				100
^	468.742M	47.6	+17.4	-27.9	+2.0	+1.2	+0.0	40.3	46.0	-5.7	Horiz
							285				100
11	190.679M	46.0	+9.0	-27.3	+1.2	+0.8	+0.0	29.7	43.5	-13.8	Horiz
											200
12	937.498M	31.3	+23.8	-27.7	+2.8	+2.0	+0.0	32.2	46.0	-13.8	Horiz
											200
13	310.081M	42.6	+13.7	-27.0	+1.6	+0.9	+0.0	31.8	46.0	-14.2	Horiz
											200
14	781.238M	33.7	+22.0	-28.5	+2.5	+1.8	+0.0	31.5	46.0	-14.5	Horiz
											200
15	300.015M	41.1	+13.4	-27.0	+1.5	+0.9	+0.0	29.9	46.0	-16.1	Horiz
											200
16	874.996M	29.9	+23.1	-27.9	+2.7	+1.9	+0.0	29.7	46.0	-16.3	Horiz
											200
17	955.162M	28.3	+24.0	-27.6	+2.8	+2.0	+0.0	29.5	46.0	-16.5	Horiz
											200
18	496.096M	36.5	+17.9	-28.2	+2.0	+1.2	+0.0	29.4	46.0	-16.6	Horiz
											200
19	936.348M	28.5	+23.8	-27.7	+2.8	+2.0	+0.0	29.4	46.0	-16.6	Horiz
											200
20	936.662M	28.2	+23.8	-27.7	+2.8	+2.0	+0.0	29.1	46.0	-16.9	Horiz
											200
21	947.427M	28.0	+23.9	-27.6	+2.8	+2.0	+0.0	29.1	46.0	-16.9	Horiz
											200
22	954.848M	27.9	+24.0	-27.6	+2.8	+2.0	+0.0	29.1	46.0	-16.9	Horiz
											200
23	943.247M	27.8	+23.9	-27.6	+2.8	+2.0	+0.0	28.9	46.0	-17.1	Horiz
											200
24	868.202M	29.1	+23.1	-28.0	+2.7	+1.8	+0.0	28.7	46.0	-17.3	Horiz
											200
25	910.010M	28.3	+23.5	-27.8	+2.7	+2.0	+0.0	28.7	46.0	-17.3	Horiz
											200
26	886.284M	28.6	+23.3	-27.9	+2.7	+1.9	+0.0	28.6	46.0	-17.4	Horiz
											200
27	897.677M	28.5	+23.4	-27.9	+2.7	+1.9	+0.0	28.6	46.0	-17.4	Horiz
											200
28	949.100M	27.4	+24.0	-27.6	+2.8	+2.0	+0.0	28.6	46.0	-17.4	Horiz
											200
29	952.444M	27.4	+24.0	-27.6	+2.8	+2.0	+0.0	28.6	46.0	-17.4	Horiz
											200
30	876.355M	28.6	+23.2	-27.9	+2.7	+1.9	+0.0	28.5	46.0	-17.5	Horiz
											200

31	806.118M	30.0	+22.4	-28.4	+2.6	+1.8	+0.0	28.4	46.0	-17.6	Horiz 200
32	890.151M	28.4	+23.3	-27.9	+2.7	+1.9	+0.0	28.4	46.0	-17.6	Horiz 200
33	902.902M	28.3	+23.4	-27.9	+2.7	+1.9	+0.0	28.4	46.0	-17.6	Horiz 200
34	744.140M	31.3	+21.4	-28.5	+2.4	+1.7	+0.0	28.3	46.0	-17.7	Horiz 200
35	850.016M	29.0	+22.9	-28.0	+2.6	+1.8	+0.0	28.3	46.0	-17.7	Horiz 200

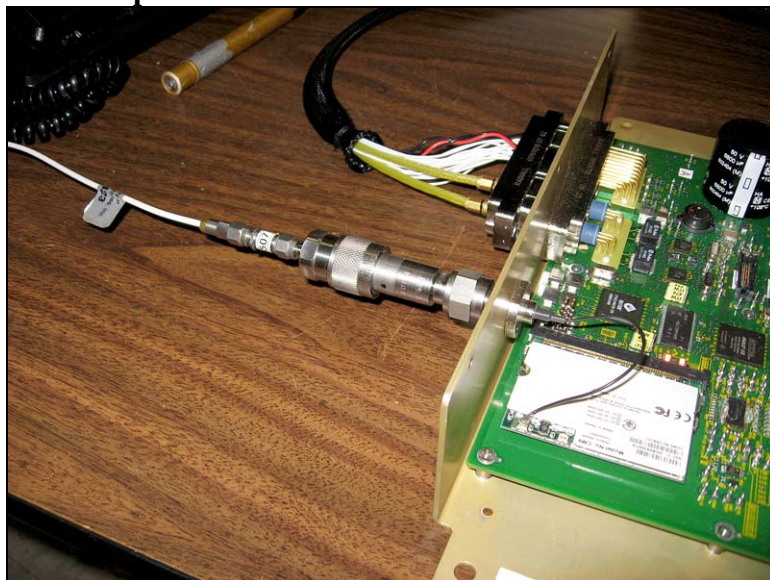
RSS-210 – 20 dB BANDWIDTH

Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05507

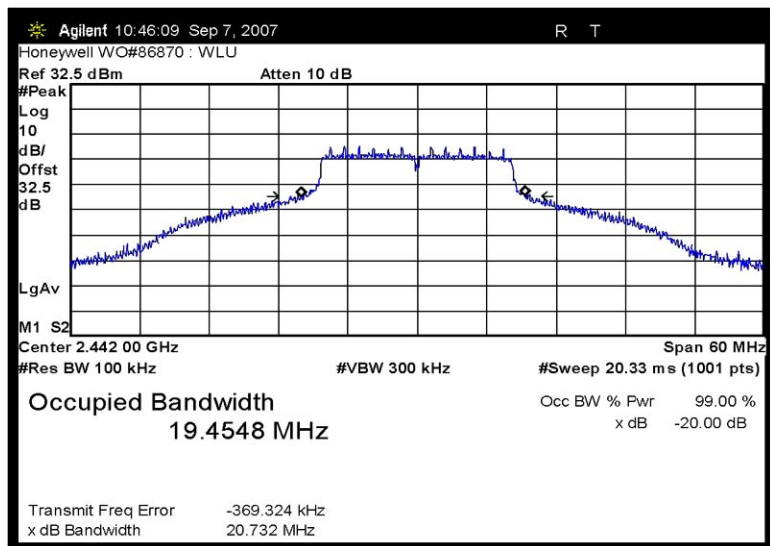
Test Conditions: WLU set up on bench top and connected to analyzer through 30 dB pad.

Test Setup Photos

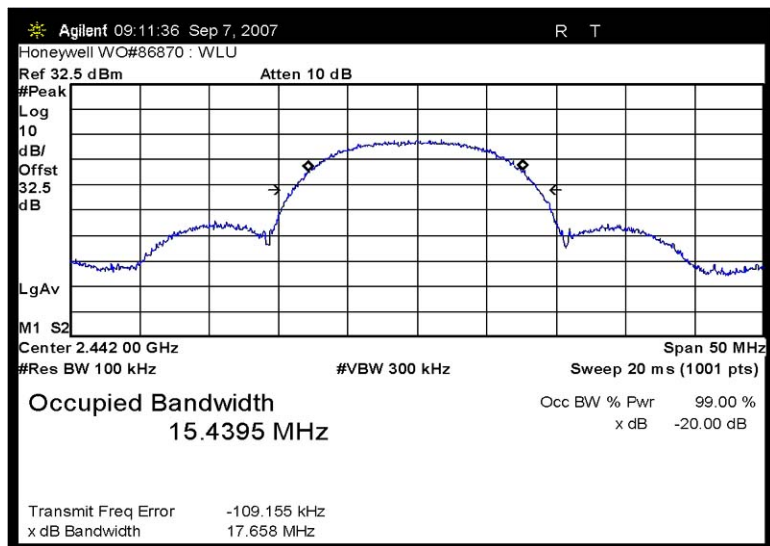


Test Plots

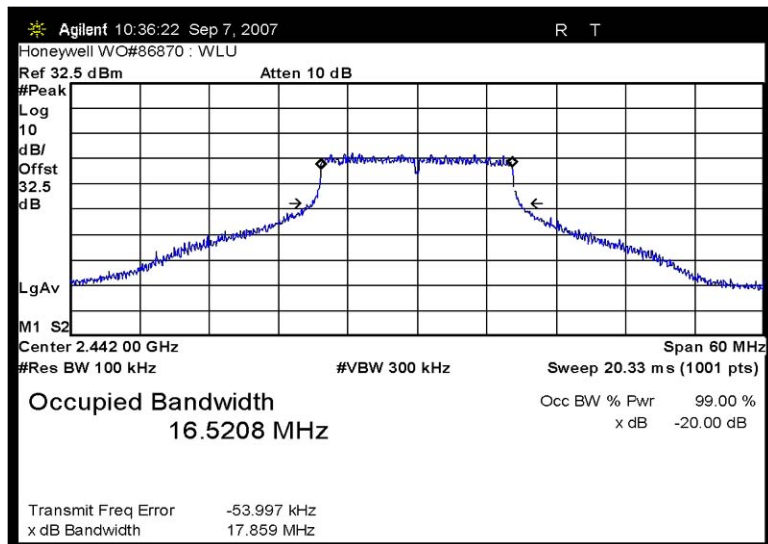
RSS-210_20dB BANDWIDTH - 802.11g - CHANNEL 7 6MBps



RSS-210_20dB BANDWIDTH - 802.11b - CHANNEL 7 11MBps



RSS-210_20dB BANDWIDTH - 802.11g - CHANNEL 7 54MBps



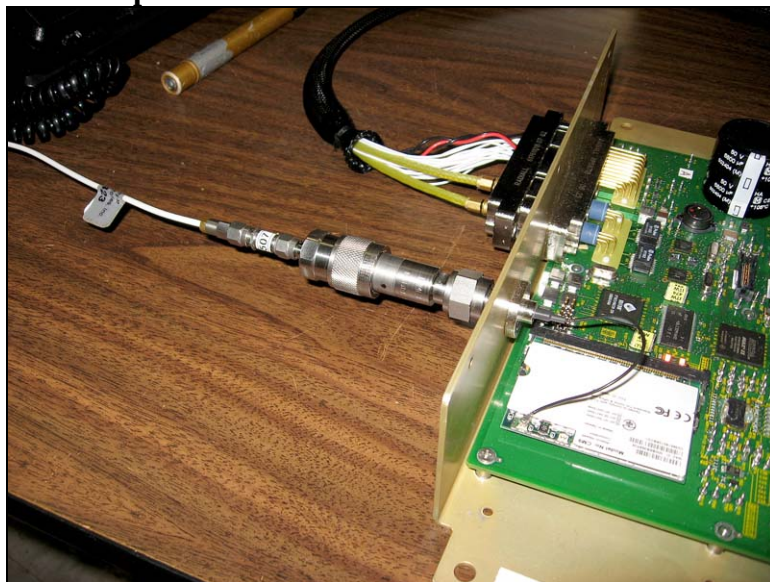
FCC 15.247(a)(2) – 26 dB BANDWIDTH

Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05507

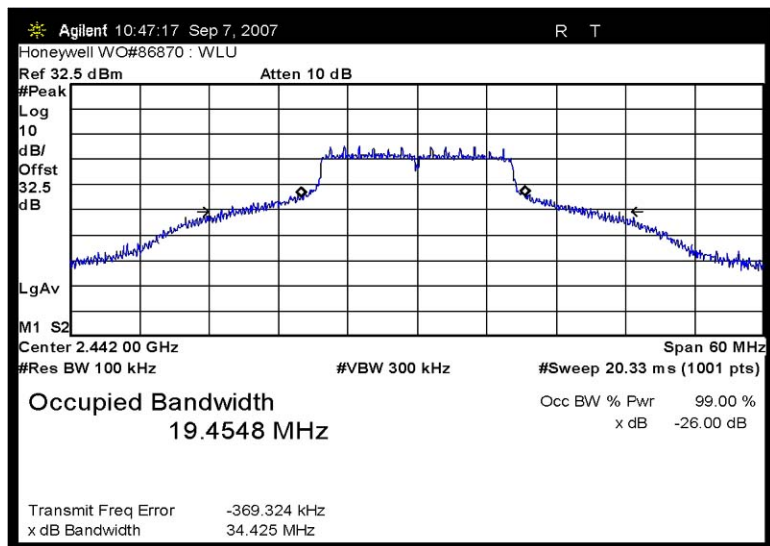
Test Conditions: WLU set up on bench top and connected to analyzer through 30 dB pad.

Test Setup Photos

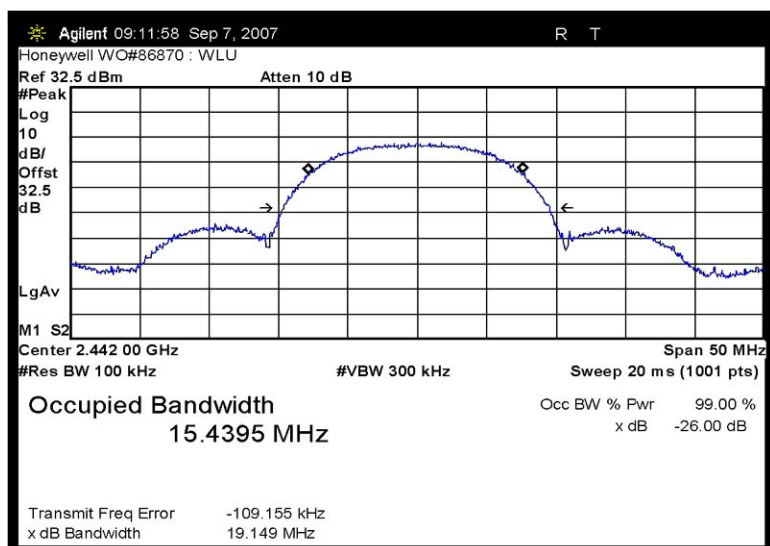


Test Plots

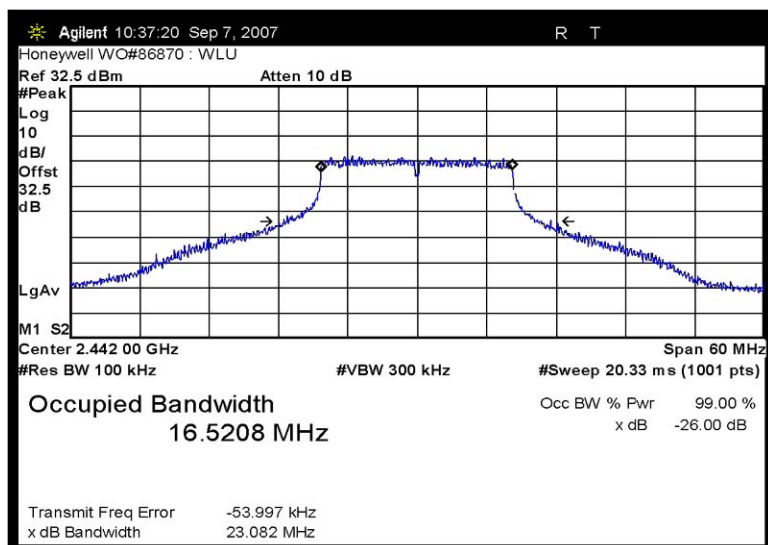
FCC 15.247(a)(2) 26dB BANDWIDTH - 802.11g - CHANNEL 7 6MBps



FCC 15.247(a)(2) 26dB BANDWIDTH - 802.11b - CHANNEL 7 11MBps



FCC 15.247(a)(2) 26dB BANDWIDTH - 802.11g - CHANNEL 7 54MBps



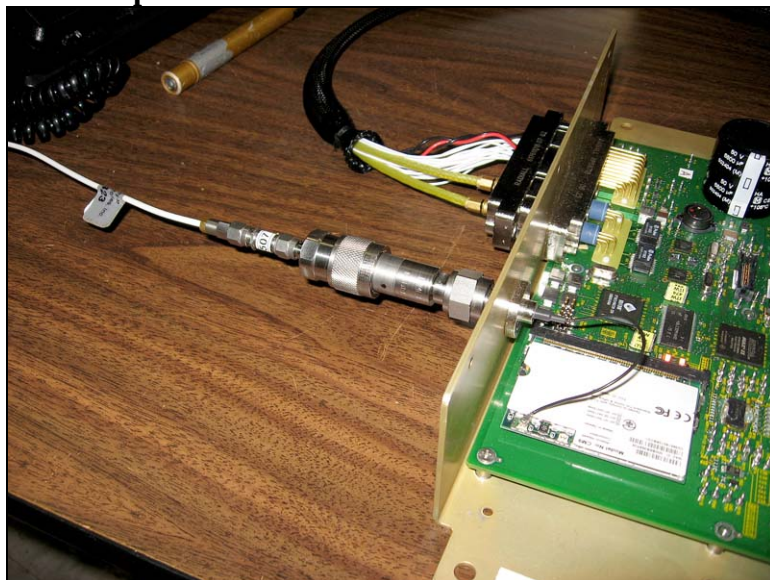
FCC 15.247(a)(2) – 6 dB BANDWIDTH

Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05507

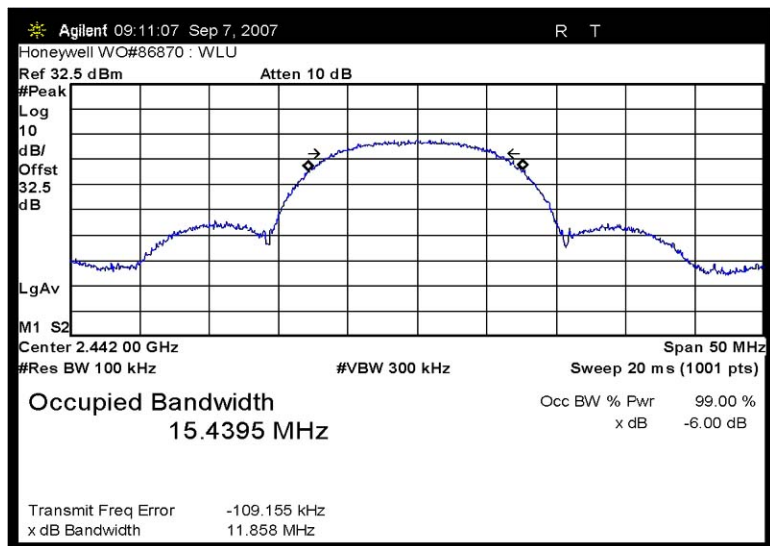
Test Conditions: WLU set up on bench top and connected to analyzer through 30 dB pad.

Test Setup Photos

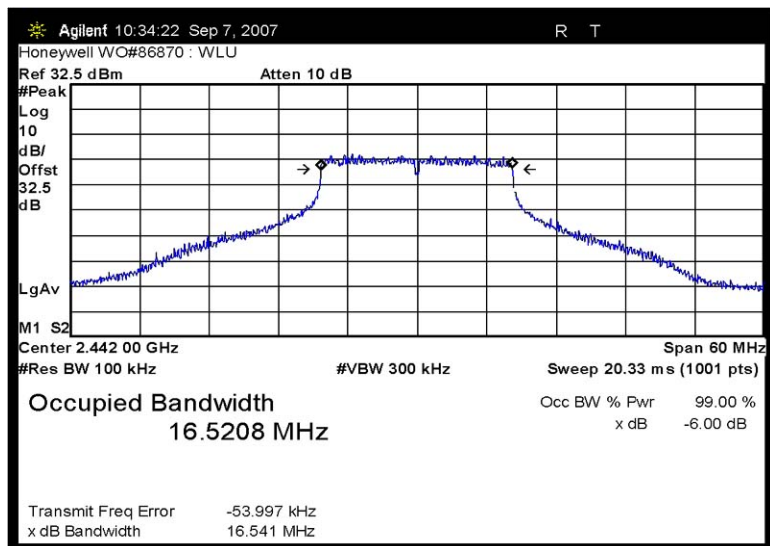


Test Plots

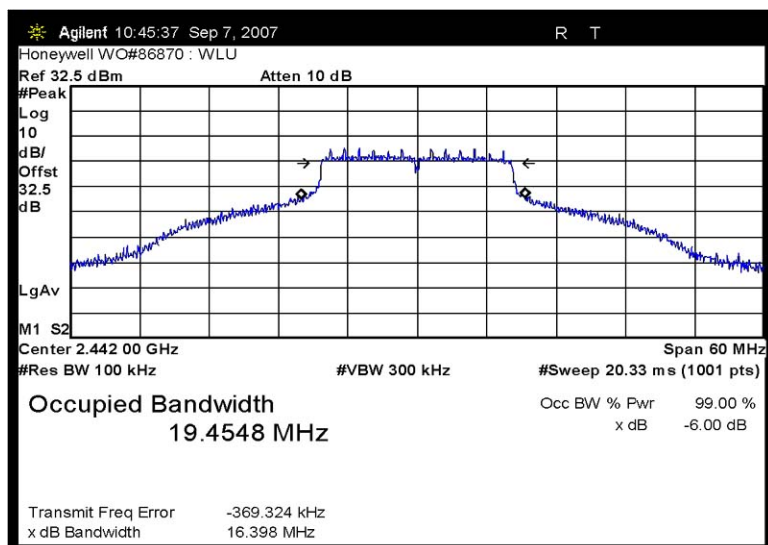
FCC 15.247(a)(2) 6dB BANDWIDTH - 802.11b - CHANNEL 7 11MBps



FCC 15.247(a)(2) 6dB BANDWIDTH - 802.11g - CHANNEL 7 54MBps



FCC 15.247(a)(2) 6dB BANDWIDTH - 802.11g - CHANNEL 7 6MBps



FCC 15.247(b)(3) RF OUTPUT POWER/15.247(e) POWER SPECTRAL DENSITY

Test Equipment

Asset #	Description	Model	Calibration Date	Cal Due Date
ANP05435	Attenuator	PE7015-10	9/5/2008	9/5/2010
AN03121	Cable	32026-2-29080-84	10/23/2009	10/23/2011
AN02872	Spectrum Analyzer	E4440A	8/25/2009	8/25/2011

Test Conditions: WLU is transmitting at 2412-2462 MHz on the indicated channel and modulation type. The WLU is connected directly to the spectrum analyzer through suitable attenuation. Channel power measurements are taken using peak detector mode over a 16MHz integration bandwidth for 802.11b mode and an 18MHz integration bandwidth for 802.11g mode. Plots taken include 10.9 dB offset to compensate reported readings for the cable and attenuator.

Note: The original test data used average detector mode with a lower resolution bandwidth setting. The data in this section was replaced with measurements taken using peak detector mode and automatic resolution bandwidth setting in accordance with FCC KDB 558074 Digital Transmission Systems Measurement Procedures, Method #3.

Frequency Range Tested: Carrier

Temperature: 22°C

Rel. Humidity: 37%

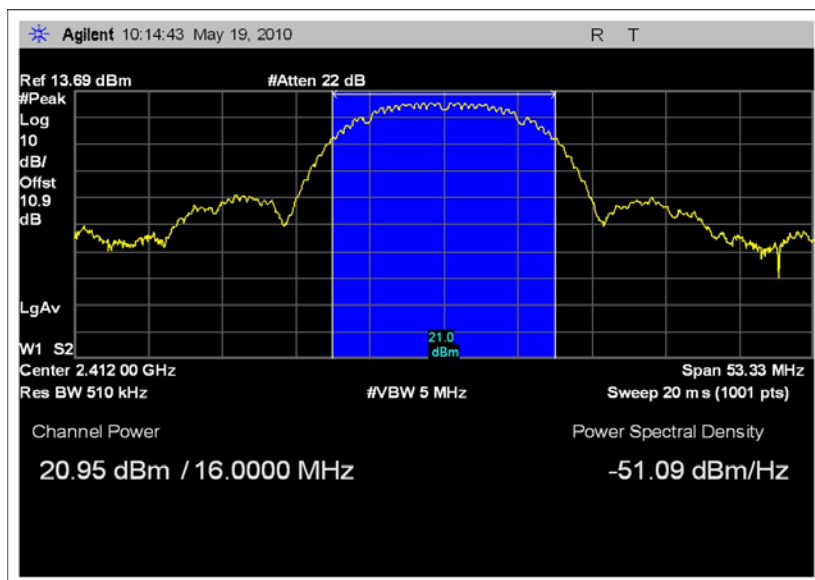
Test Setup Photos



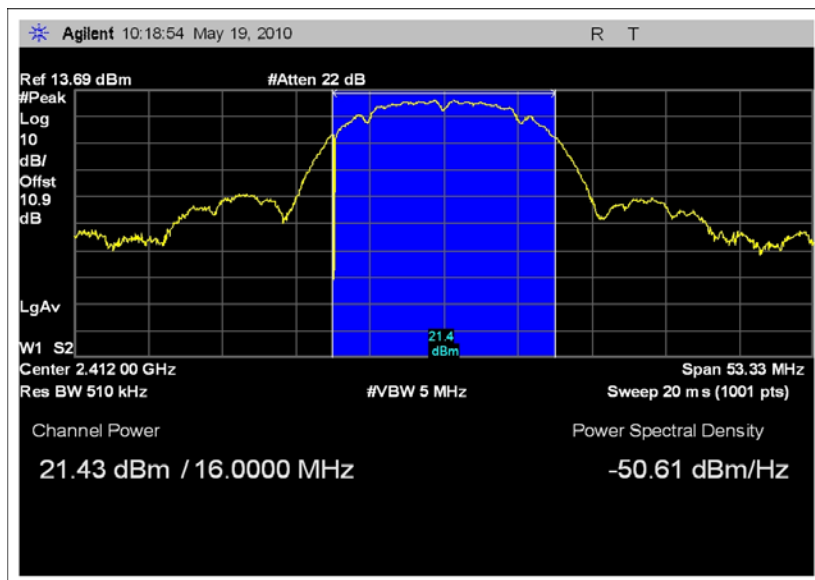
Center Frequency (MHz)	Channel	Mode	Data Rate (Mbps)	Channel Power (Watts) Limit 30dBm	Spectral Density (dBm/3kHz) Limit 8dBm/3kHz
2412	1	802.11b	1	21.0	-16.3
2412	1	802.11b	2	21.4	-15.8
2412	1	802.11b	5.5	22.6	-14.6
2412	1	802.11b	11	23.3	-13.9
2442	7	802.11b	1	19.9	-17.4
2442	7	802.11b	2	20.3	-16.9
2442	7	802.11b	5.5	22.2	-15.1
2442	7	802.11b	11	22.6	-14.6
2462	11	802.11b	1	20.3	-17.0
2462	11	802.11b	2	20.8	-16.5
2462	11	802.11b	5.5	22.5	-14.7
2462	11	802.11b	11	22.8	-14.5
2412	1	802.11g	6	20.9	-16.9
2412	1	802.11g	9	20.3	-17.5
2412	1	802.11g	12	20.2	-17.6
2412	1	802.11g	18	20.4	-17.9
2412	1	802.11g	24	20.6	-17.1
2412	1	802.11g	36	20.6	-17.1
2412	1	802.11g	48	20.1	-17.6
2412	1	802.11g	54	19.7	-18.0
2442	7	802.11g	6	23.2	-14.6
2442	7	802.11g	9	23.0	-14.8
2442	7	802.11g	12	23.2	-14.6
2442	7	802.11g	18	22.8	-15.0
2442	7	802.11g	24	23.3	-14.5
2442	7	802.11g	36	21.8	-16.0
2442	7	802.11g	48	21.1	-16.6
2442	7	802.11g	54	20.6	-17.2
2462	11	802.11g	6	21.2	-16.5
2462	11	802.11g	9	21.3	-16.5
2462	11	802.11g	12	21.2	-16.5
2462	11	802.11g	18	21.6	-16.1
2462	11	802.11g	24	21.7	-16.0
2462	11	802.11g	36	21.4	-16.3
2462	11	802.11g	48	21.7	-16.1
2462	11	802.11g	54	19.9	-17.9

Test Plots

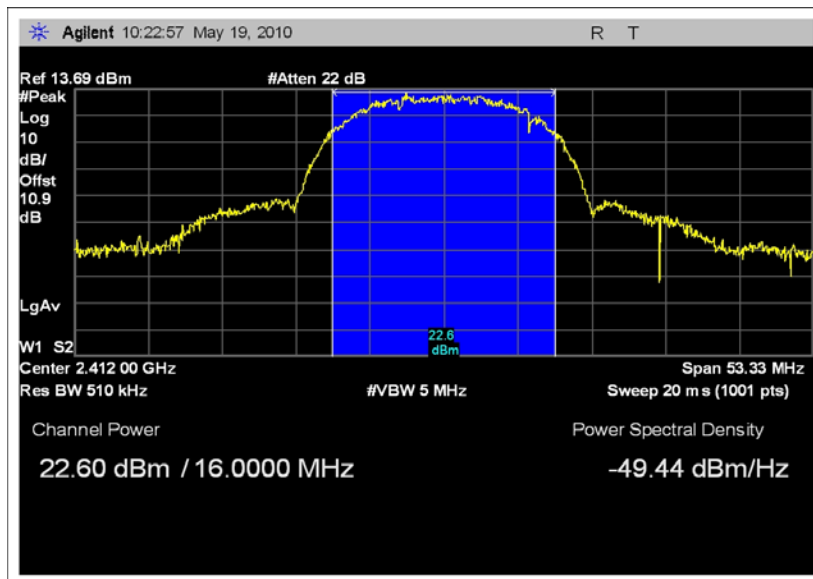
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 1 1Mbps



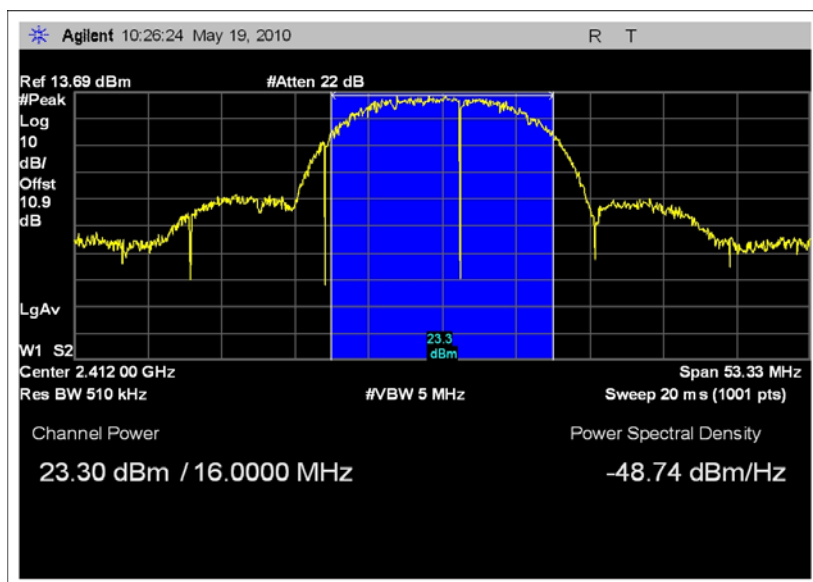
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 1 2Mbps



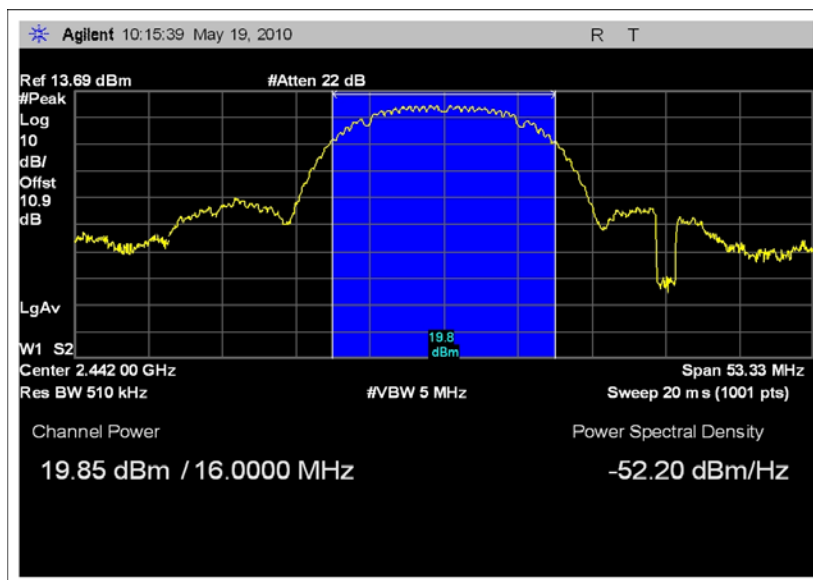
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 1 5.5Mbps



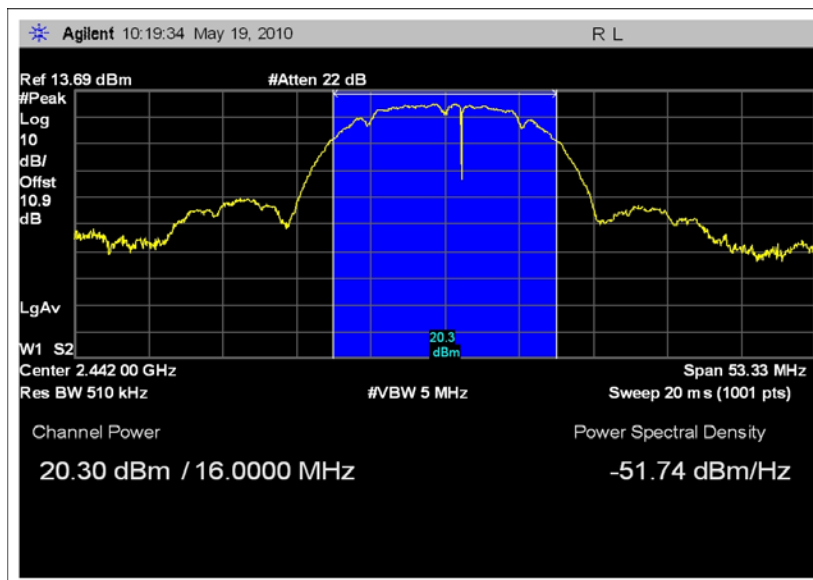
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 1 11Mbps



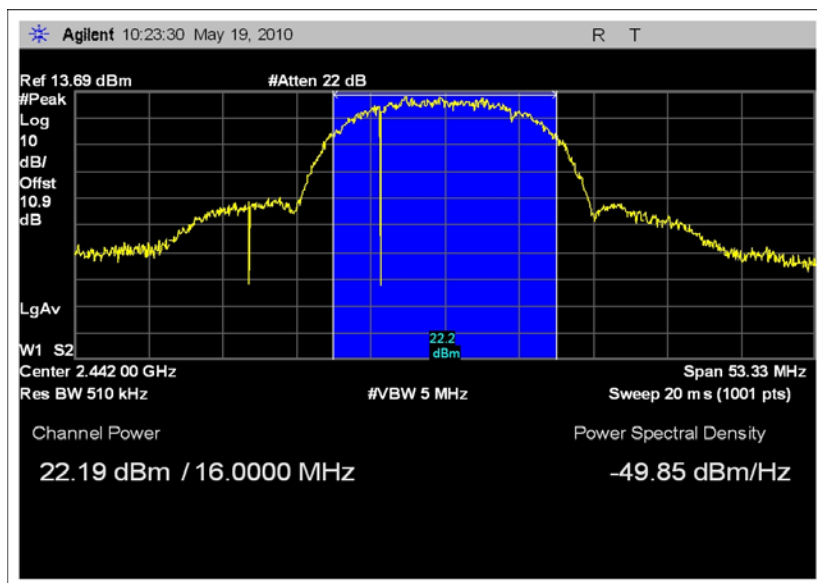
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 7 1Mbps



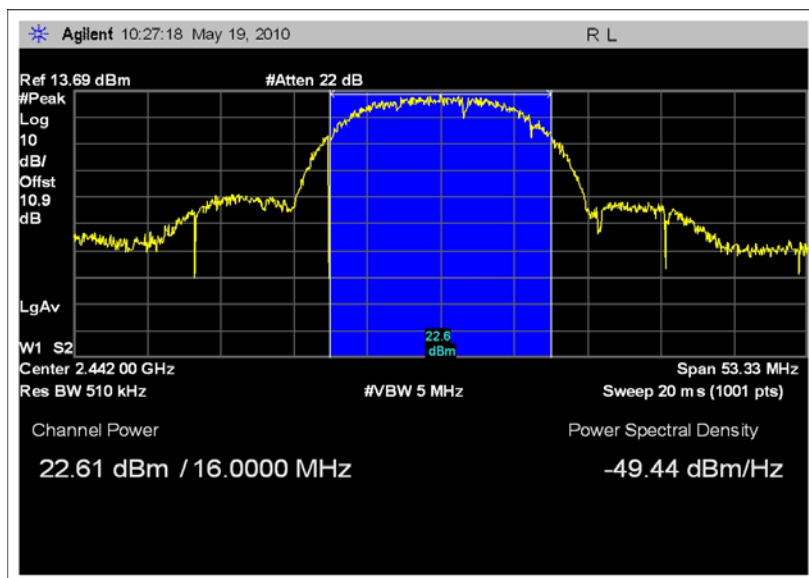
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 7 2Mbps



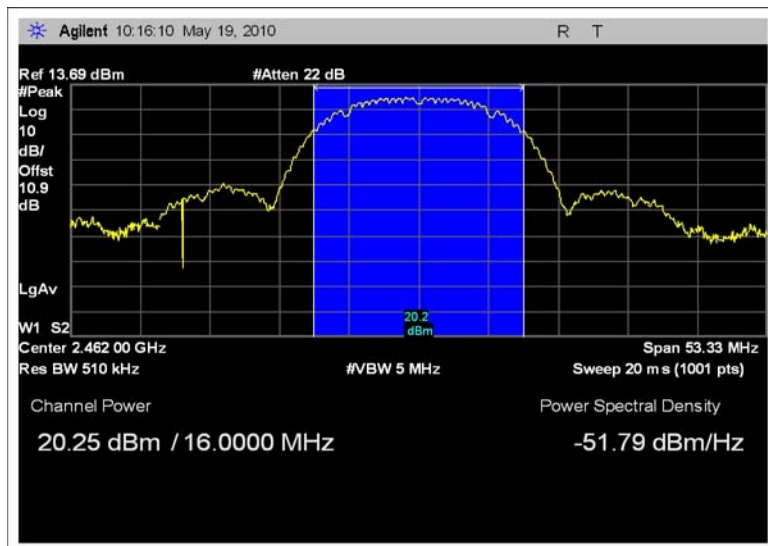
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 7 5.5Mbps



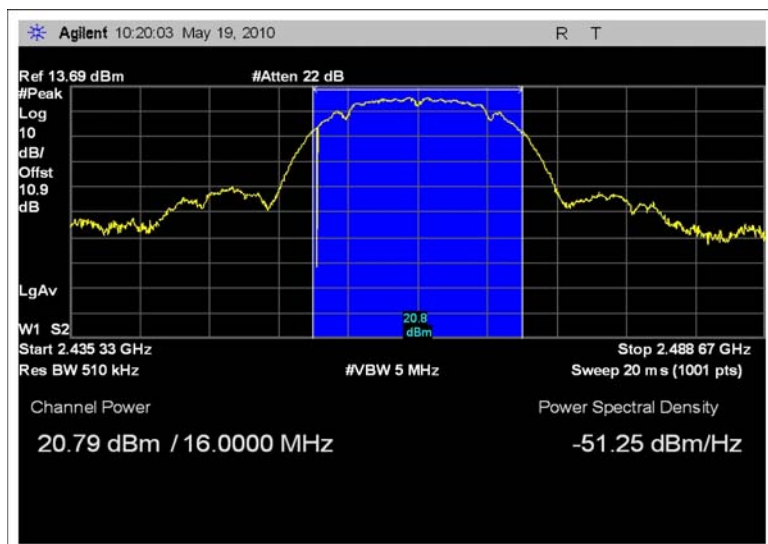
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 7 11Mbps



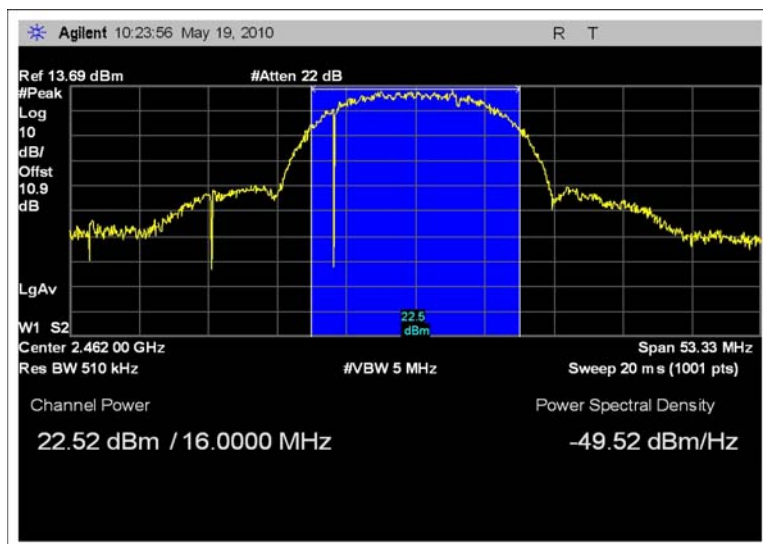
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 11 1MBps



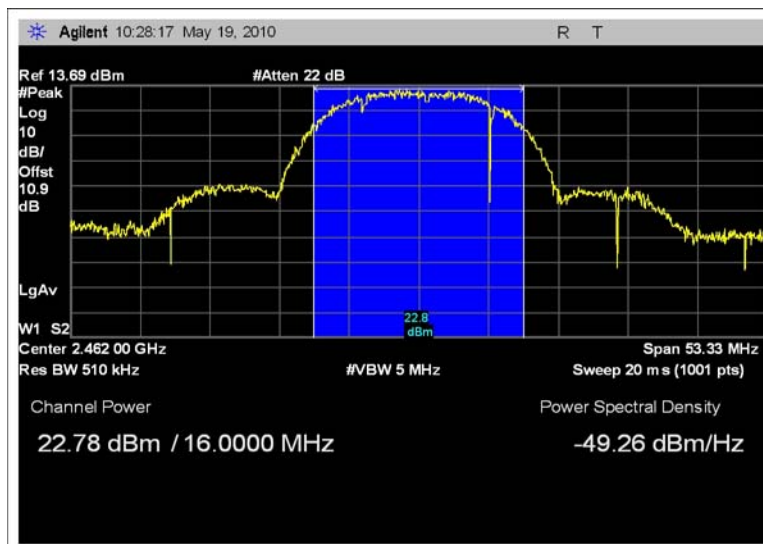
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 11 2MBps



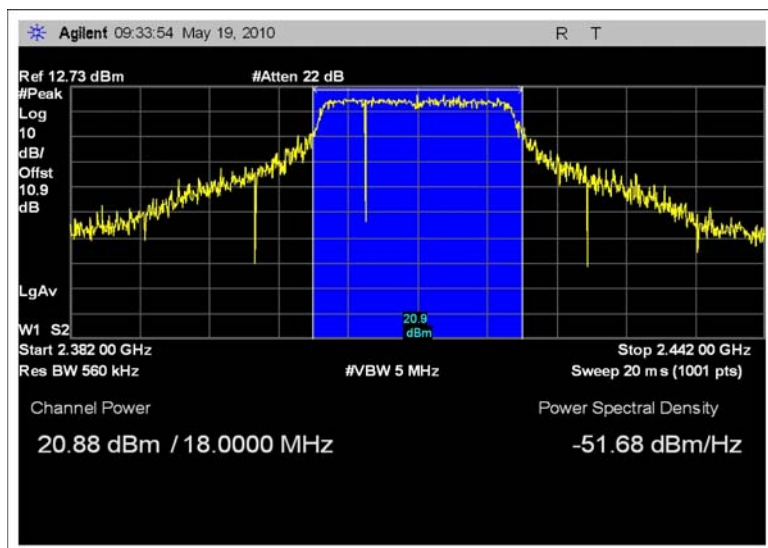
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 11 5.5MBps



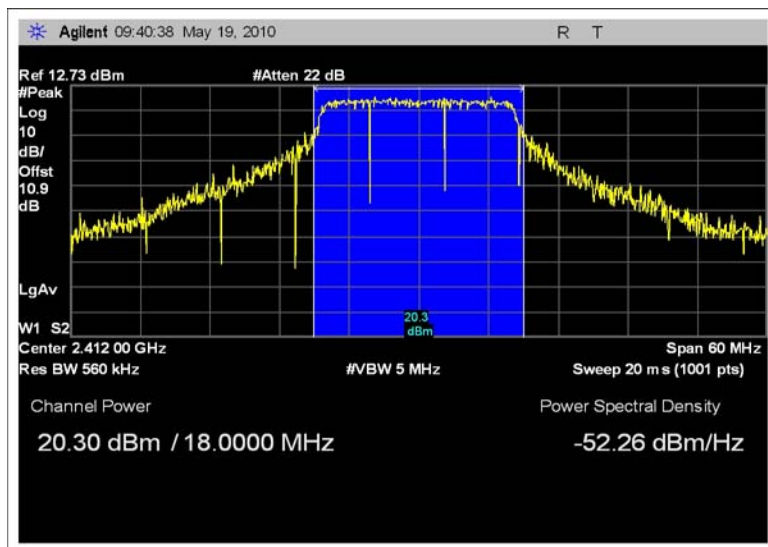
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11b CHANNEL 11 11MBps



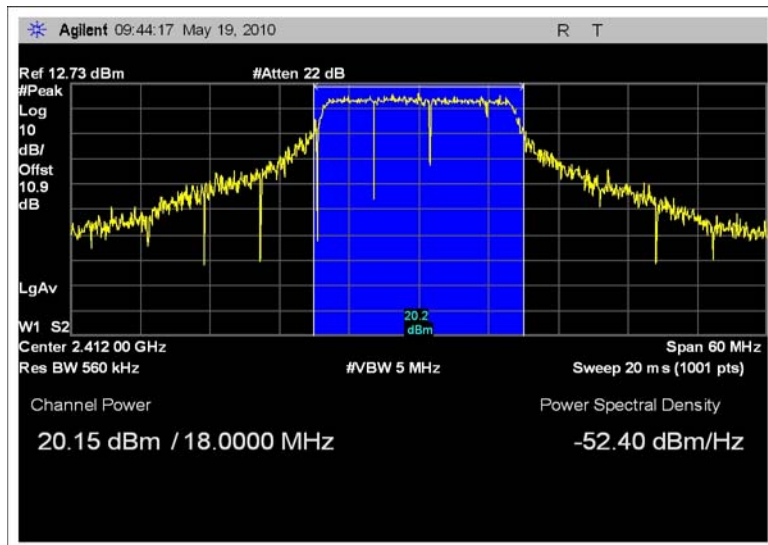
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 6MBps



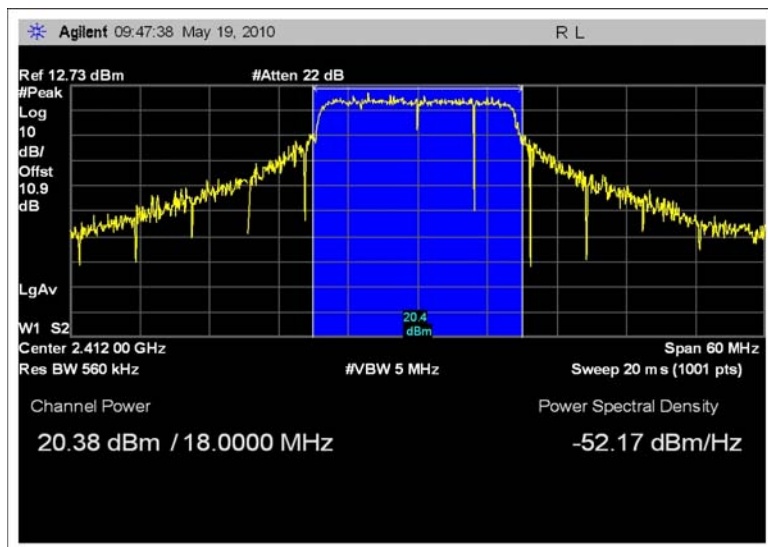
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 9MBps



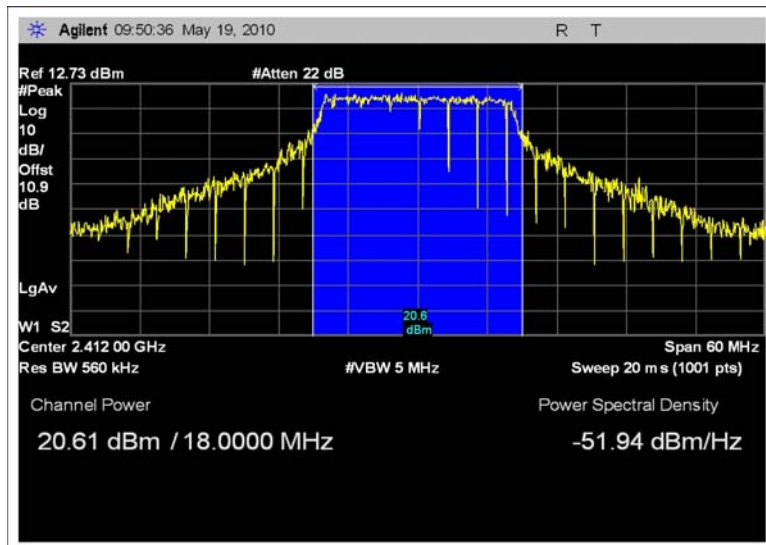
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 12MBps



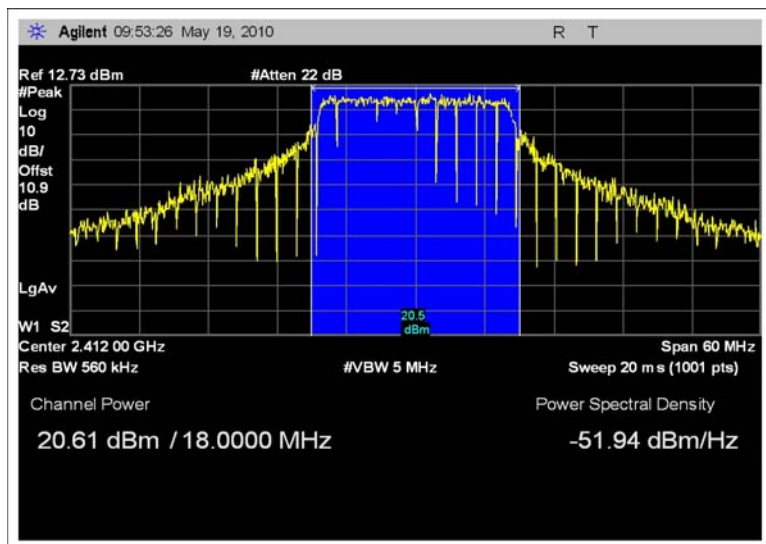
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 18MBps



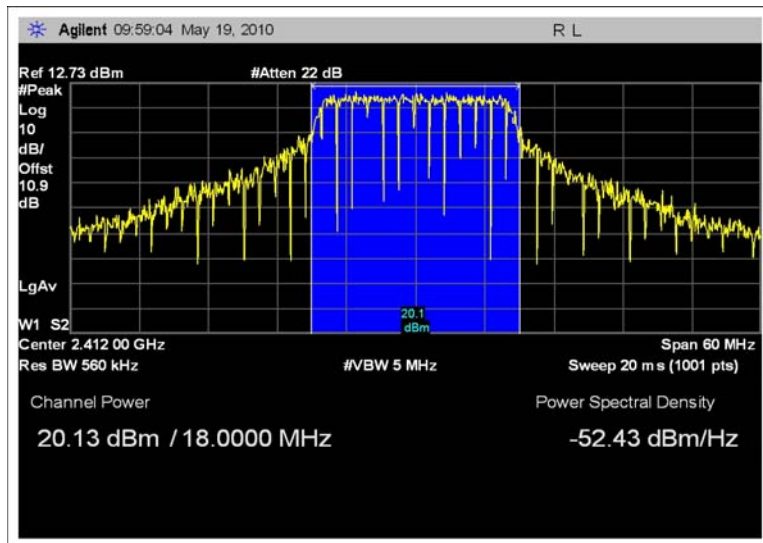
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 24MBps



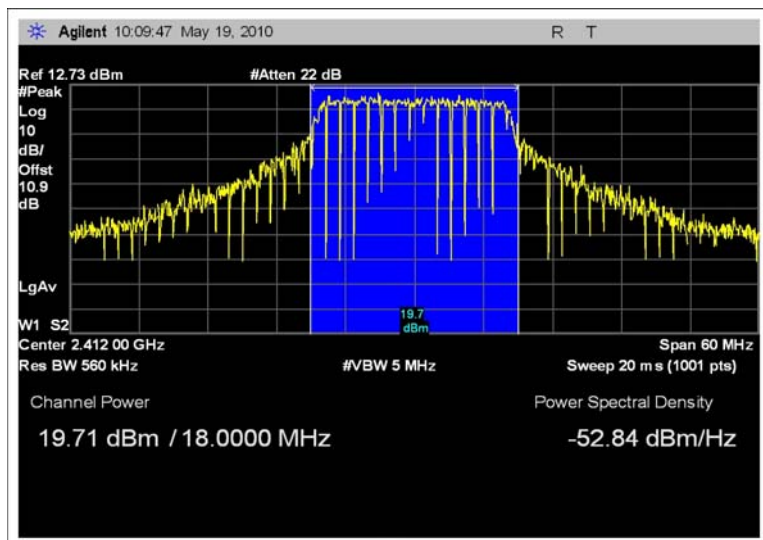
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 36MBps



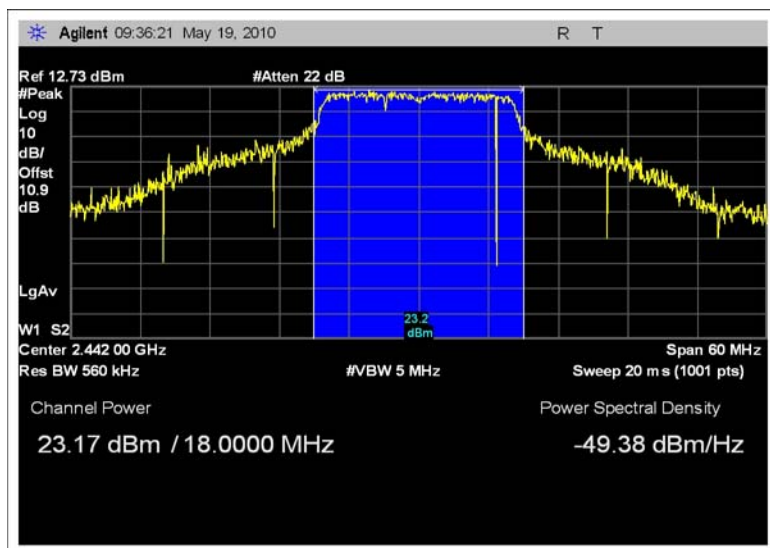
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 48MBps



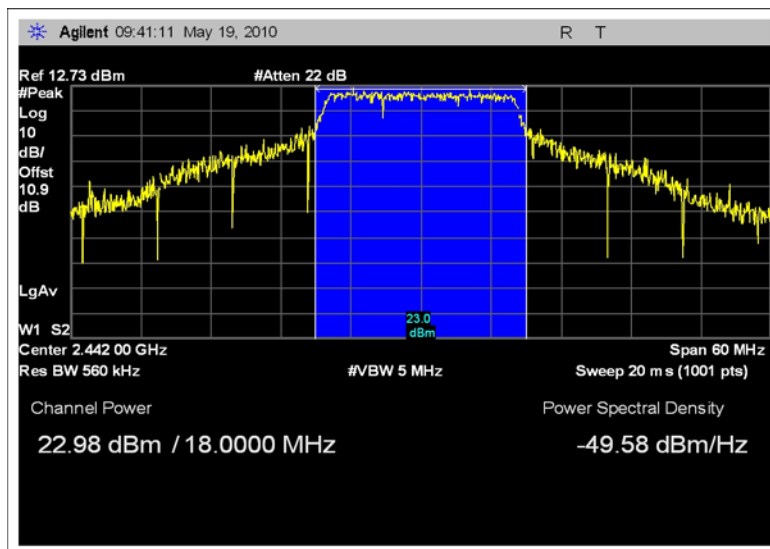
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 54MBps



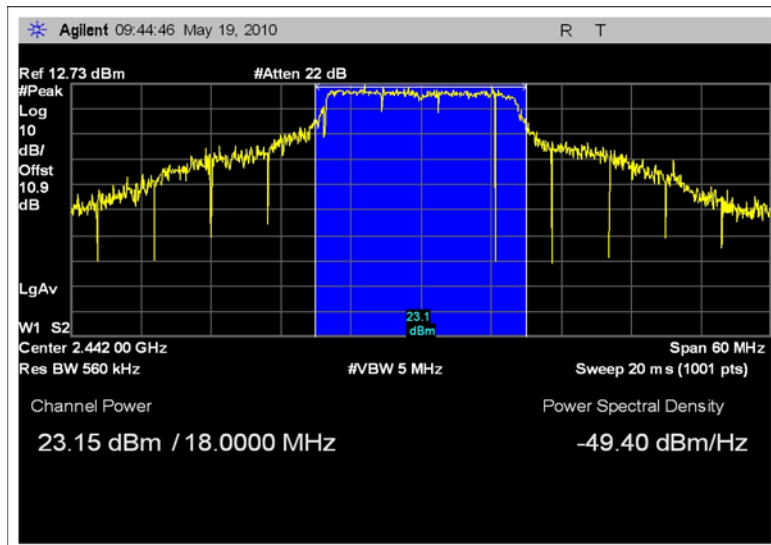
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 7 6MBps



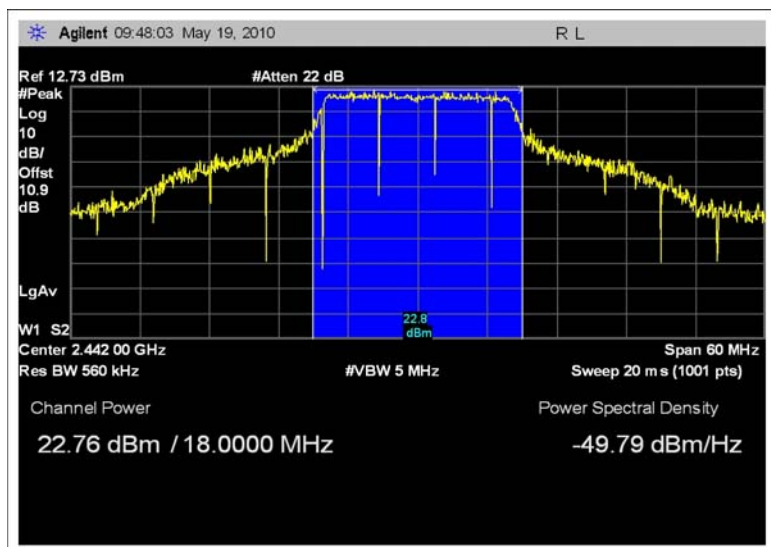
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 1 9MBps



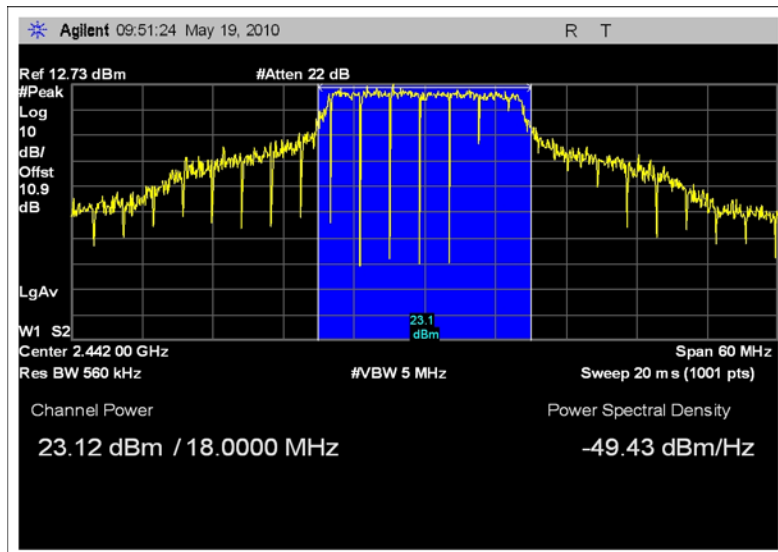
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 7 12MBps



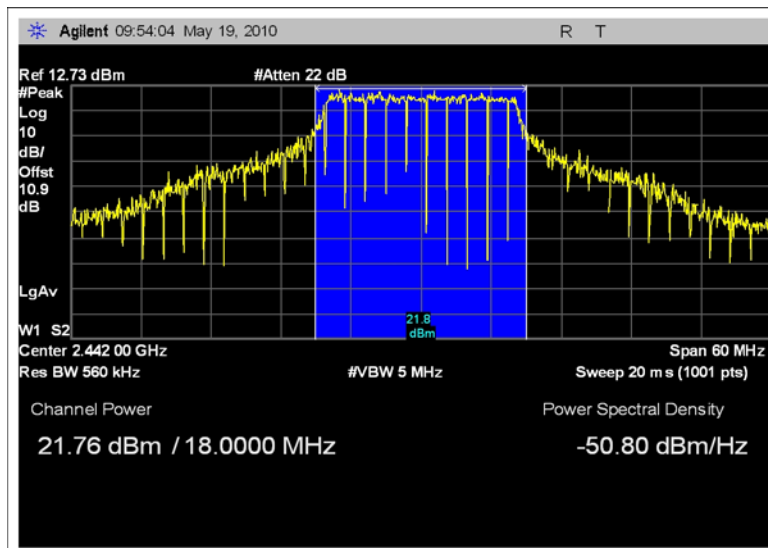
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 7 18MBps



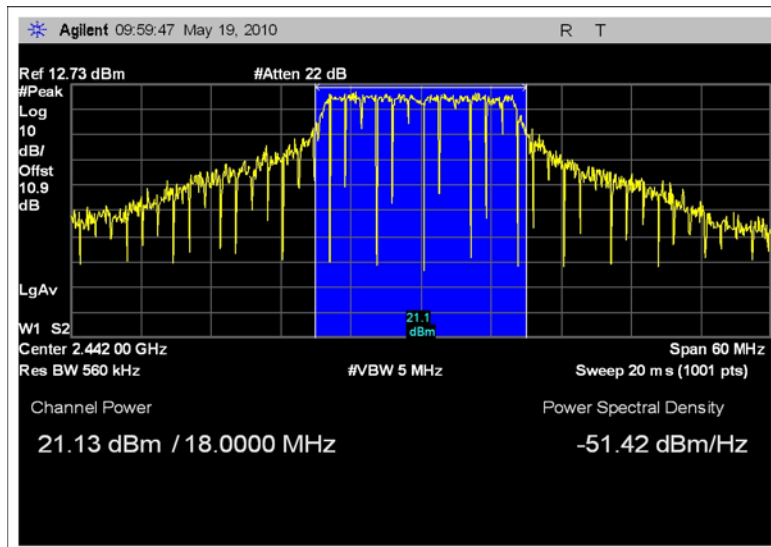
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 7 24MBps



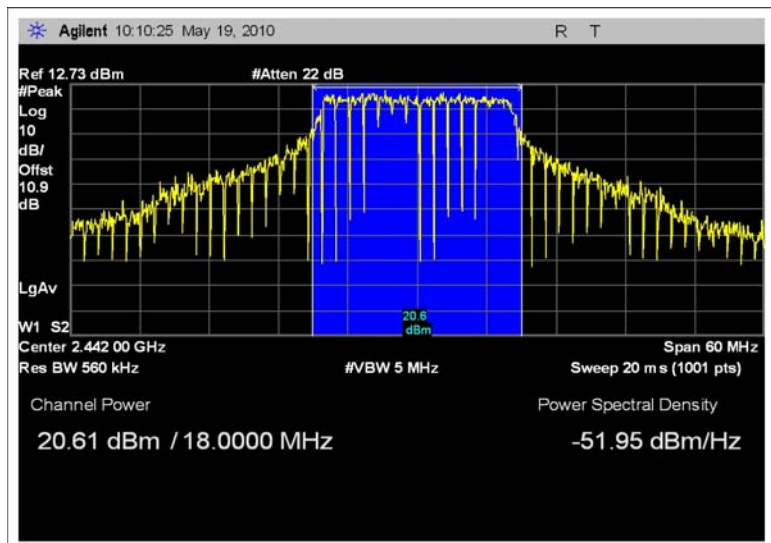
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 7 36MBps



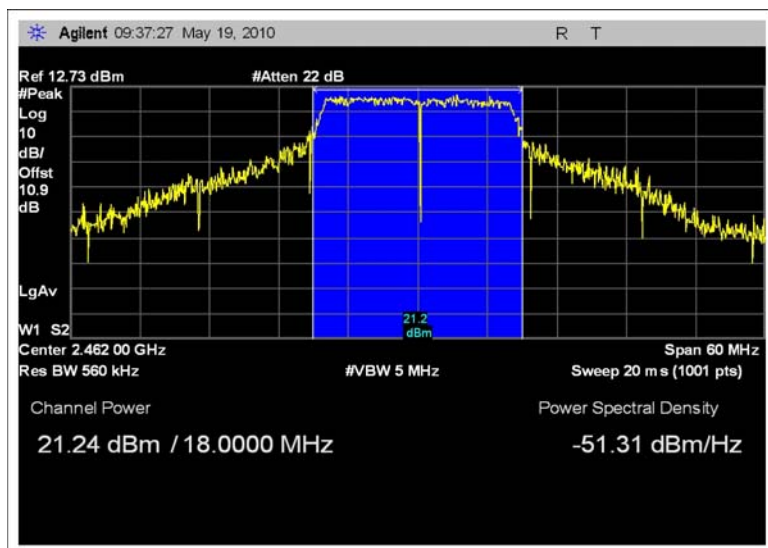
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 7 48MBps



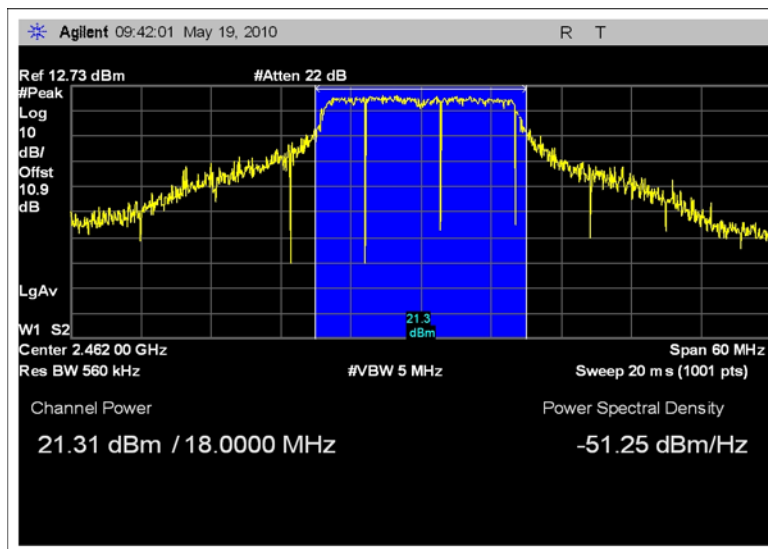
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 7 54MBps



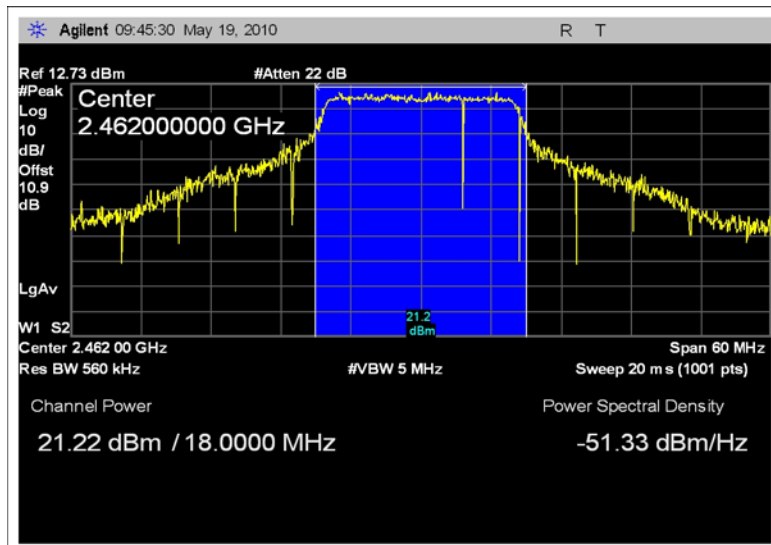
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 6MBps



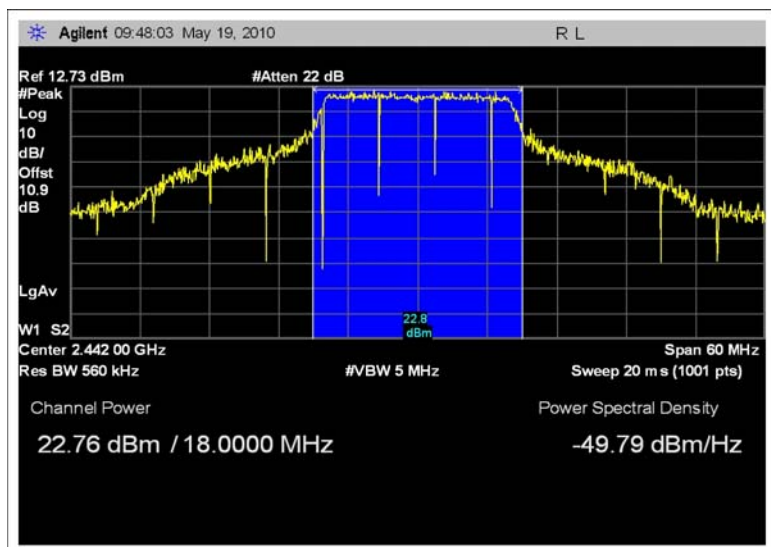
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 9MBps



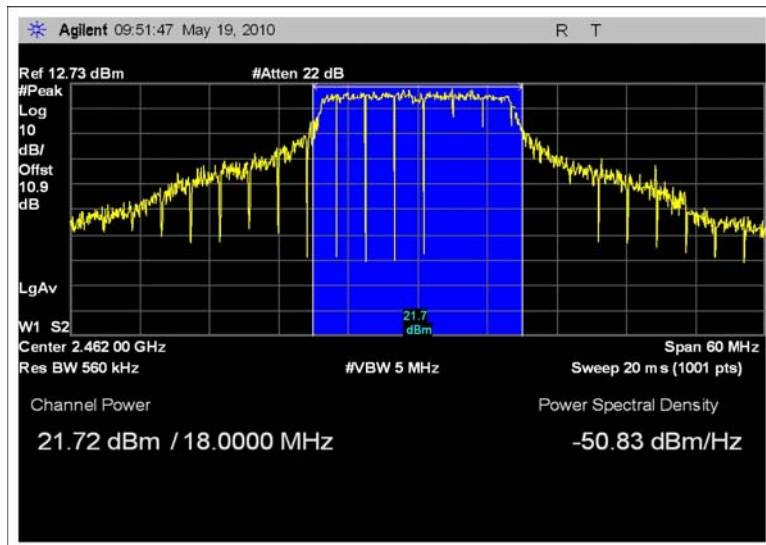
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 12Mbps



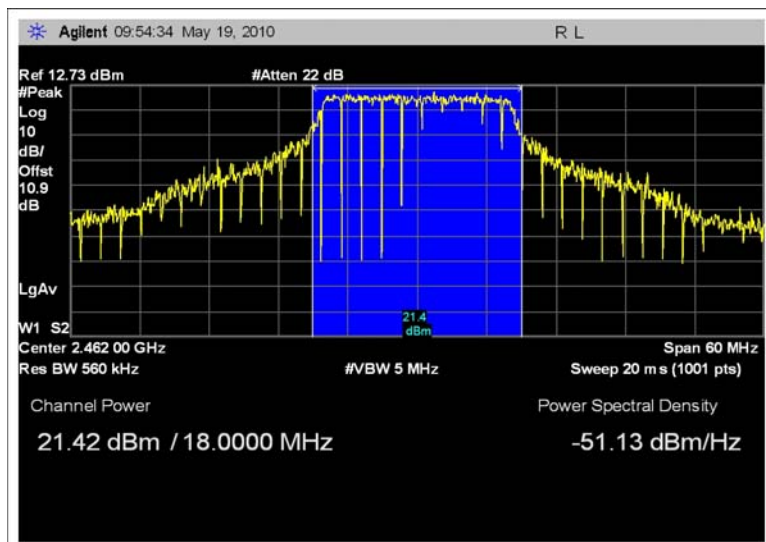
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 18Mbps



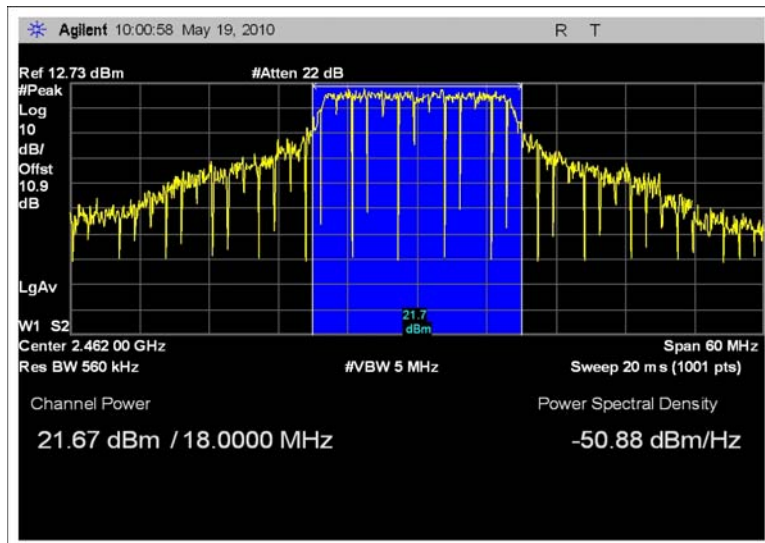
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 24MBps



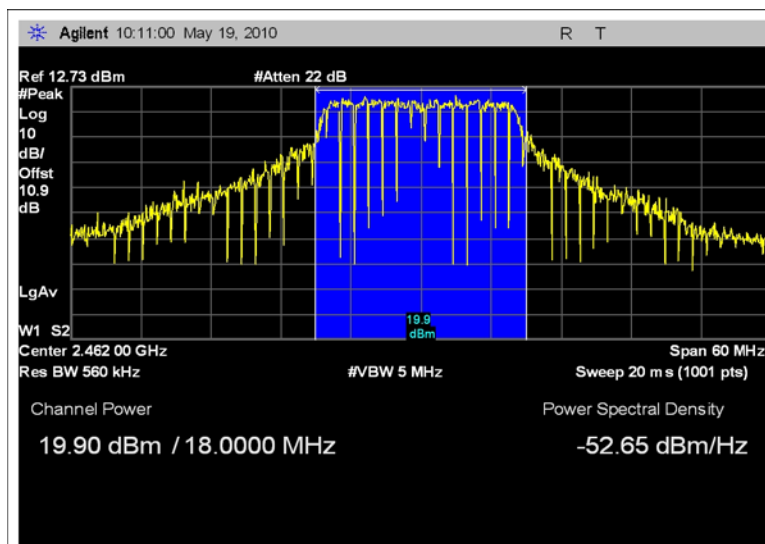
FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 36MBps



FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 48Mbps

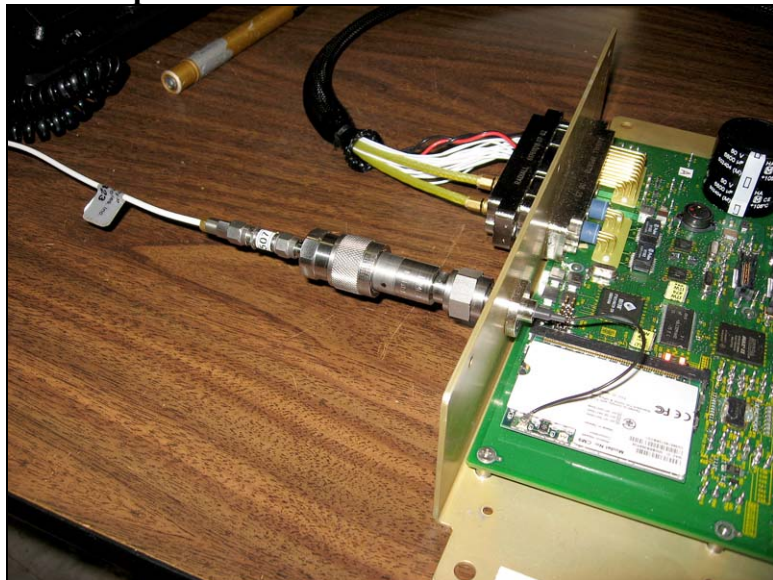


FCC 15.247(b)(3) RF OUTPUT POWER
15.247(e) POWER SPECTRAL DENSITY
802.11g CHANNEL 11 54Mbps



FCC 15.247(d) – ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Setup Photos



Test Data Sheets

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**

Specification: **15.247(d) Out-of-band emissions 20 dBc**

Work Order #: **86870**

Date: 9/7/2007

Test Type: **Conducted Emissions**

Time: 16:41:55

Equipment: **Wireless LAN Unit**

Sequence#: 8

Manufacturer: Honeywell International

Tested By: Ryan Rutledge

Model: 965-1702-001R

28VDC

S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
6 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05509

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU transmitting at 24 MBps, max power, 802.11g Channel 11, 2462 MHz. Measuring conducted spurious emissions using 100 kHz RBW. Frequency range tested: 9 kHz – 25 GHz.

Transducer Legend:

T1=CAB-ANP05423-051006	T2=ATT-ANP05509-072007
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Measurement Data:

Reading listed by margin.

Test Lead: RF Output port

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	2463.300M	104.5	+2.2	+6.3			+0.0	113.0	112.5	+0.5	RF Ou
	Ambient								Fundamental		
2	2399.900M	53.3	+2.2	+6.3			+0.0	61.8	92.5	-30.7	RF Ou
3	2320.000M	51.1	+2.1	+6.3			+0.0	59.5	92.5	-33.0	RF Ou
4	2234.400M	47.9	+2.1	+6.3			+0.0	56.3	92.5	-36.2	RF Ou
5	2016.000M	48.0	+2.0	+6.3			+0.0	56.3	92.5	-36.2	RF Ou
6	2688.000M	46.9	+2.3	+6.3			+0.0	55.5	92.5	-37.0	RF Ou

7	4922.600M	44.6	+3.2	+6.4	+0.0	54.2	92.5	-38.3	RF Ou
8	7384.800M	43.4	+3.9	+6.2	+0.0	53.5	92.5	-39.0	RF Ou
9	501.800M	45.6	+1.0	+6.1	+0.0	52.7	92.5	-39.8	RF Ou
10	2559.900M	43.6	+2.3	+6.3	+0.0	52.2	92.5	-40.3	RF Ou
11	440.000M	42.1	+1.0	+6.1	+0.0	49.2	92.5	-43.3	RF Ou
12	2600.000M	38.1	+2.3	+6.3	+0.0	46.7	92.5	-45.8	RF Ou
13	232.200M	33.2	+0.7	+6.0	+0.0	39.9	92.5	-52.6	RF Ou
14	279.900M	33.0	+0.8	+6.0	+0.0	39.8	92.5	-52.7	RF Ou
15	320.000M	32.6	+0.8	+6.1	+0.0	39.5	92.5	-53.0	RF Ou
16	336.000M	32.2	+0.9	+6.1	+0.0	39.2	92.5	-53.3	RF Ou
17	400.000M	31.9	+0.9	+6.1	+0.0	38.9	92.5	-53.6	RF Ou
18	360.000M	30.6	+0.9	+6.1	+0.0	37.6	92.5	-54.9	RF Ou

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **15.247(d) Out-of-band emissions 20 dBc**
 Work Order #: **86870**
 Test Type: **Conducted Emissions**
 Equipment: **Wireless LAN Unit**
 Manufacturer: Honeywell International
 Model: 965-1702-001R
 S/N: WLU-00208

Date: 9/7/2007
 Time: 16:30:14
 Sequence#: 7
 Tested By: Ryan Rutledge
 28VDC

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
6 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05509

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU transmitting at 24 MBps, max power, 802.11g Channel 7, 2442 MHz. Measuring conducted spurious emissions using 100 kHz RBW. Frequency range tested: 9 kHz – 25 GHz.

Transducer Legend:

T1=CAB-ANP05423-051006	T2=ATT-ANP05509-072007
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Measurement Data:

Reading listed by margin.

Test Lead: RF Output port

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB			Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	2436.900M	104.9	+2.2	+6.3			+0.0	113.4	112.5	+0.9	RF Ou
	Ambient								Fundamental		
2	2399.900M	54.7	+2.2	+6.3			+0.0	63.2	92.5	-29.3	RF Ou
3	2320.000M	51.2	+2.1	+6.3			+0.0	59.6	92.5	-32.9	RF Ou
4	2520.000M	48.5	+2.2	+6.3			+0.0	57.0	92.5	-35.5	RF Ou
5	2016.000M	46.7	+2.0	+6.3			+0.0	55.0	92.5	-37.5	RF Ou
6	4882.600M	45.3	+3.2	+6.3			+0.0	54.8	92.5	-37.7	RF Ou
7	2559.900M	44.8	+2.3	+6.3			+0.0	53.4	92.5	-39.1	RF Ou

8	480.700M	45.2	+1.0	+6.1	+0.0	52.3	92.5	-40.2	RF Ou
9	2688.000M	42.7	+2.3	+6.3	+0.0	51.3	92.5	-41.2	RF Ou
10	7326.000M	40.9	+3.9	+6.3	+0.0	51.1	92.5	-41.4	RF Ou
11	433.500M	37.8	+1.0	+6.1	+0.0	44.9	92.5	-47.6	RF Ou
12	440.000M	37.3	+1.0	+6.1	+0.0	44.4	92.5	-48.1	RF Ou
13	250.400M	33.3	+0.7	+6.0	+0.0	40.0	92.5	-52.5	RF Ou
14	280.000M	32.5	+0.8	+6.0	+0.0	39.3	92.5	-53.2	RF Ou
15	320.000M	32.2	+0.8	+6.1	+0.0	39.1	92.5	-53.4	RF Ou
16	400.000M	31.5	+0.9	+6.1	+0.0	38.5	92.5	-54.0	RF Ou
17	360.000M	31.1	+0.9	+6.1	+0.0	38.1	92.5	-54.4	RF Ou

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **15.247(d) Out-of-band emissions 20 dBc**
 Work Order #: **86870**
 Test Type: **Conducted Emissions**
 Equipment: **Wireless LAN Unit**
 Manufacturer: Honeywell International
 Model: 965-1702-001R
 S/N: WLU-00208

Date: 9/7/2007
 Time: 16:20:23
 Sequence#: 6
 Tested By: Ryan Rutledge
 28VDC

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
6 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05509

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU transmitting at 24 MBps, max power, 802.11g Channel 1, 2412 MHz. Measuring conducted spurious emissions using 100 kHz RBW. Frequency range tested: 9 kHz – 25 GHz.

Transducer Legend:

T1=CAB-ANP05423-051006	T2=ATT-ANP05509-072007
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Measurement Data:

Reading listed by margin.

Test Lead: RF Output port

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB			Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	2413.200M	104.0	+2.2	+6.3			+0.0	112.5	112.5	+0.0	RF Ou
2	2320.000M	48.1	+2.1	+6.3			+0.0	56.5	92.5	-36.0	RF Ou
3	2520.000M	47.2	+2.2	+6.3			+0.0	55.7	92.5	-36.8	RF Ou
4	4825.200M	42.9	+3.1	+6.3			+0.0	52.3	92.5	-40.2	RF Ou
5	2016.000M	42.8	+2.0	+6.3			+0.0	51.1	92.5	-41.4	RF Ou
6	2240.000M	42.3	+2.1	+6.3			+0.0	50.7	92.5	-41.8	RF Ou
7	2560.000M	42.0	+2.3	+6.3			+0.0	50.6	92.5	-41.9	RF Ou

8	2688.000M	40.8	+2.3	+6.3	+0.0	49.4	92.5	-43.1	RF Ou
9	2600.000M	37.2	+2.3	+6.3	+0.0	45.8	92.5	-46.7	RF Ou
10	2160.000M	36.7	+2.1	+6.3	+0.0	45.1	92.5	-47.4	RF Ou
11	7236.000M	33.6	+3.9	+6.4	+0.0	43.9	92.5	-48.6	RF Ou
12	440.000M	36.8	+1.0	+6.1	+0.0	43.9	92.5	-48.6	RF Ou
13	2480.000M	48.9	+2.2	+6.3	+0.0	57.4	112.5	-55.1	RF Ou

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **15.247(d) Out-of-band emissions 20 dBc**
 Work Order #: **86870**
 Test Type: **Conducted Emissions**
 Equipment: **Wireless LAN Unit**
 Manufacturer: Honeywell International
 Model: 965-1702-001R
 S/N: WLU-00208

Date: 9/7/2007
 Time: 16:55:10
 Sequence#: 9
 Tested By: Ryan Rutledge
 28VDC

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
6 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05509

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU transmitting at 1 MBps, max power, 802.11b Channel 1, 2412 MHz. Measuring conducted spurious emissions using 100 kHz RBW. Frequency range tested: 9 kHz – 25 GHz.

Transducer Legend:

T1=CAB-ANP05423-051006	T2=ATT-ANP05509-072007
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Measurement Data:

Reading listed by margin.

Test Lead: RF Output port

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB			Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	2412.500M	108.6	+2.2	+6.3			+0.0	117.1	117.1	+0.0	RF Ou
2	2396.900M	78.0	+2.2	+6.3			+0.0	86.5	97.1	-10.6	RF Ou
3	2386.000M	64.4	+2.2	+6.3			+0.0	72.9	97.1	-24.2	RF Ou
4	2427.000M	77.9	+2.2	+6.3			+0.0	86.4	117.1	-30.7	RF Ou
5	4824.000M	53.8	+3.1	+6.3			+0.0	63.2	97.1	-33.9	RF Ou
6	2320.000M	51.3	+2.1	+6.3			+0.0	59.7	97.1	-37.4	RF Ou
7	2136.000M	48.4	+2.0	+6.3			+0.0	56.7	97.1	-40.4	RF Ou

8	4812.900M	43.5	+3.1	+6.3	+0.0	52.9	97.1	-44.2	RF Ou
9	2560.000M	44.1	+2.3	+6.3	+0.0	52.7	97.1	-44.4	RF Ou
10	2016.000M	44.3	+2.0	+6.3	+0.0	52.6	97.1	-44.5	RF Ou
11	2438.000M	64.0	+2.2	+6.3	+0.0	72.5	117.1	-44.6	RF Ou
12	4835.000M	42.7	+3.1	+6.3	+0.0	52.1	97.1	-45.0	RF Ou
13	7233.200M	41.1	+3.9	+6.4	+0.0	51.4	97.1	-45.7	RF Ou
14	4815.900M	41.7	+3.1	+6.3	+0.0	51.1	97.1	-46.0	RF Ou
15	2688.000M	41.8	+2.3	+6.3	+0.0	50.4	97.1	-46.7	RF Ou
16	4832.000M	40.8	+3.1	+6.3	+0.0	50.2	97.1	-46.9	RF Ou
17	451.300M	40.9	+1.0	+6.1	+0.0	48.0	97.1	-49.1	RF Ou
18	440.000M	40.2	+1.0	+6.1	+0.0	47.3	97.1	-49.8	RF Ou
19	2480.000M	51.0	+2.2	+6.3	+0.0	59.5	117.1	-57.6	RF Ou

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **15.247(d) Out-of-band emissions 20 dBc**
 Work Order #: **86870**
 Test Type: **Conducted Emissions**
 Equipment: **Wireless LAN Unit**
 Manufacturer: Honeywell International
 Model: 965-1702-001R
 S/N: WLU-00208

Date: 9/7/2007
 Time: 17:01:11
 Sequence#: 10
 Tested By: Ryan Rutledge
 28VDC

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
6 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05509

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU transmitting at 1 MBps, max power, 802.11b Channel 7, 2442 MHz. Measuring conducted spurious emissions using 100 kHz RBW. Frequency range tested: 9 kHz – 25 GHz.

Transducer Legend:

T1=CAB-ANP05423-051006	T2=ATT-ANP05509-072007
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Measurement Data:

Reading listed by margin.

Test Lead: RF Output port

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	2441.600M	109.1	+2.2	+6.3			+0.0	117.6	117.1	+0.5	RF Ou
	Ambient								Fundamental		
2	2427.000M	80.4	+2.2	+6.3			+0.0	88.9	117.1	-28.2	RF Ou
3	2457.000M	79.4	+2.2	+6.3			+0.0	87.9	117.1	-29.2	RF Ou
4	2195.900M	59.4	+2.1	+6.3			+0.0	67.8	97.1	-29.3	RF Ou
5	4884.000M	54.6	+3.2	+6.3			+0.0	64.1	97.1	-33.0	RF Ou
6	2688.000M	50.3	+2.3	+6.3			+0.0	58.9	97.1	-38.2	RF Ou
7	2320.000M	50.2	+2.1	+6.3			+0.0	58.6	97.1	-38.5	RF Ou

8	2207.000M	48.2	+2.1	+6.3	+0.0	56.6	97.1	-40.5	RF Ou
9	2259.000M	48.2	+2.1	+6.3	+0.0	56.6	97.1	-40.5	RF Ou
10	7329.000M	46.2	+3.9	+6.3	+0.0	56.4	97.1	-40.7	RF Ou
11	2204.000M	47.1	+2.1	+6.3	+0.0	55.5	97.1	-41.6	RF Ou
12	2185.000M	46.0	+2.1	+6.3	+0.0	54.4	97.1	-42.7	RF Ou
13	2416.000M	65.5	+2.2	+6.3	+0.0	74.0	117.1	-43.1	RF Ou
14	481.300M	46.6	+1.0	+6.1	+0.0	53.7	97.1	-43.4	RF Ou
15	2188.000M	45.1	+2.1	+6.3	+0.0	53.5	97.1	-43.6	RF Ou
16	4872.900M	43.9	+3.2	+6.3	+0.0	53.4	97.1	-43.7	RF Ou
17	4895.000M	43.7	+3.2	+6.3	+0.0	53.2	97.1	-43.9	RF Ou
18	2016.000M	44.6	+2.0	+6.3	+0.0	52.9	97.1	-44.2	RF Ou
19	2559.900M	44.0	+2.3	+6.3	+0.0	52.6	97.1	-44.5	RF Ou
20	4892.000M	41.8	+3.2	+6.3	+0.0	51.3	97.1	-45.8	RF Ou
21	2699.000M	42.1	+2.3	+6.3	+0.0	50.7	97.1	-46.4	RF Ou
22	2695.900M	42.0	+2.3	+6.3	+0.0	50.6	97.1	-46.5	RF Ou
23	4875.900M	41.1	+3.2	+6.3	+0.0	50.6	97.1	-46.5	RF Ou
24	2468.000M	61.9	+2.2	+6.3	+0.0	70.4	117.1	-46.7	RF Ou
25	2677.000M	41.4	+2.3	+6.3	+0.0	50.0	97.1	-47.1	RF Ou
26	2680.000M	40.6	+2.3	+6.3	+0.0	49.2	97.1	-47.9	RF Ou
27	426.000M	41.9	+1.0	+6.1	+0.0	49.0	97.1	-48.1	RF Ou
28	2868.000M	40.2	+2.4	+6.3	+0.0	48.9	97.1	-48.2	RF Ou
29	245.000M	41.6	+0.7	+6.0	+0.0	48.3	97.1	-48.8	RF Ou
30	2405.000M	57.7	+2.2	+6.3	+0.0	66.2	117.1	-50.9	RF Ou
31	180.000M	39.3	+0.6	+6.0	+0.0	45.9	97.1	-51.2	RF Ou
32	2480.000M	54.7	+2.2	+6.3	+0.0	63.2	117.1	-53.9	RF Ou

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **15.247(d) Out-of-band emissions 20 dBc**
 Work Order #: **86870**
 Test Type: **Conducted Emissions**
 Equipment: **Wireless LAN Unit**
 Manufacturer: Honeywell International
 Model: 965-1702-001R
 S/N: WLU-00208

Date: 9/7/2007
 Time: 17:06:26
 Sequence#: 11
 Tested By: Ryan Rutledge
 28VDC

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
6 dB Attenuator	S/N: none	07/20/2007	07/20/2009	ANP05509

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU transmitting at 1 MBps, max power, 802.11b Channel 11, 2462 MHz. Measuring conducted spurious emissions using 100 kHz RBW. Frequency range tested: 9 kHz – 25 GHz.

Transducer Legend:

T1=CAB-ANP05423-051006	T2=ATT-ANP05509-072007
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Measurement Data:

Reading listed by margin.

Test Lead: RF Output port

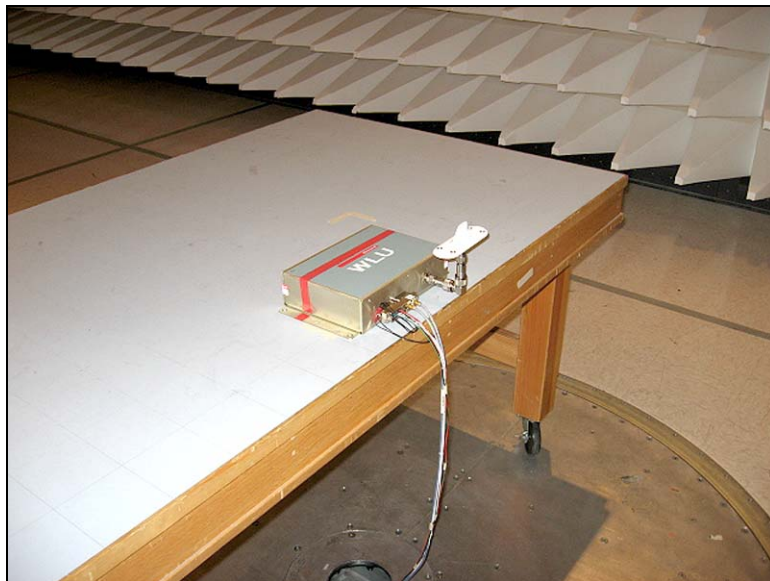
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB			Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant
1	2461.500M	109.2	+2.2	+6.3			+0.0	117.7	117.1	+0.6	RF Ou
	Ambient								Fundamental		
2	2236.000M	62.9	+2.1	+6.3			+0.0	71.3	97.1	-25.8	RF Ou
3	2487.400M	61.7	+2.2	+6.3			+0.0	70.2	97.1	-26.9	RF Ou
4	2447.000M	80.8	+2.2	+6.3			+0.0	89.3	117.1	-27.8	RF Ou
5	2477.000M	79.7	+2.2	+6.3			+0.0	88.2	117.1	-28.9	RF Ou
6	4923.900M	54.4	+3.2	+6.4			+0.0	64.0	97.1	-33.1	RF Ou
7	2246.900M	53.3	+2.1	+6.3			+0.0	61.7	97.1	-35.4	RF Ou

8	2399.900M	53.1	+2.2	+6.3	+0.0	61.6	97.1	-35.5	RF Ou
9	2499.000M	52.8	+2.2	+6.3	+0.0	61.3	97.1	-35.8	RF Ou
10	2244.000M	52.5	+2.1	+6.3	+0.0	60.9	97.1	-36.2	RF Ou
11	2688.000M	52.0	+2.3	+6.3	+0.0	60.6	97.1	-36.5	RF Ou
12	7381.900M	49.3	+3.9	+6.2	+0.0	59.4	97.1	-37.7	RF Ou
13	2240.000M	51.0	+2.1	+6.3	+0.0	59.4	97.1	-37.7	RF Ou
14	2320.000M	49.8	+2.1	+6.3	+0.0	58.2	97.1	-38.9	RF Ou
15	2225.000M	49.8	+2.1	+6.3	+0.0	58.2	97.1	-38.9	RF Ou
16	2228.000M	48.7	+2.1	+6.3	+0.0	57.1	97.1	-40.0	RF Ou
17	501.200M	48.4	+1.0	+6.1	+0.0	55.5	97.1	-41.6	RF Ou
18	2560.000M	44.7	+2.3	+6.3	+0.0	53.3	97.1	-43.8	RF Ou
19	2435.900M	64.8	+2.2	+6.3	+0.0	73.3	117.1	-43.8	RF Ou
20	446.000M	45.9	+1.0	+6.1	+0.0	53.0	97.1	-44.1	RF Ou
21	4935.000M	43.0	+3.2	+6.4	+0.0	52.6	97.1	-44.5	RF Ou
22	2016.000M	44.3	+2.0	+6.3	+0.0	52.6	97.1	-44.5	RF Ou
23	4913.000M	42.7	+3.2	+6.4	+0.0	52.3	97.1	-44.8	RF Ou
24	4932.000M	42.0	+3.2	+6.4	+0.0	51.6	97.1	-45.5	RF Ou
25	2676.900M	42.6	+2.3	+6.3	+0.0	51.2	97.1	-45.9	RF Ou
26	2679.900M	42.4	+2.3	+6.3	+0.0	51.0	97.1	-46.1	RF Ou
27	2698.900M	42.3	+2.3	+6.3	+0.0	50.9	97.1	-46.2	RF Ou
28	2696.000M	42.3	+2.3	+6.3	+0.0	50.9	97.1	-46.2	RF Ou
29	220.000M	43.7	+0.7	+6.0	+0.0	50.4	97.1	-46.7	RF Ou
30	4916.000M	40.1	+3.2	+6.4	+0.0	49.7	97.1	-47.4	RF Ou
31	2425.000M	56.2	+2.2	+6.3	+0.0	64.7	117.1	-52.4	RF Ou

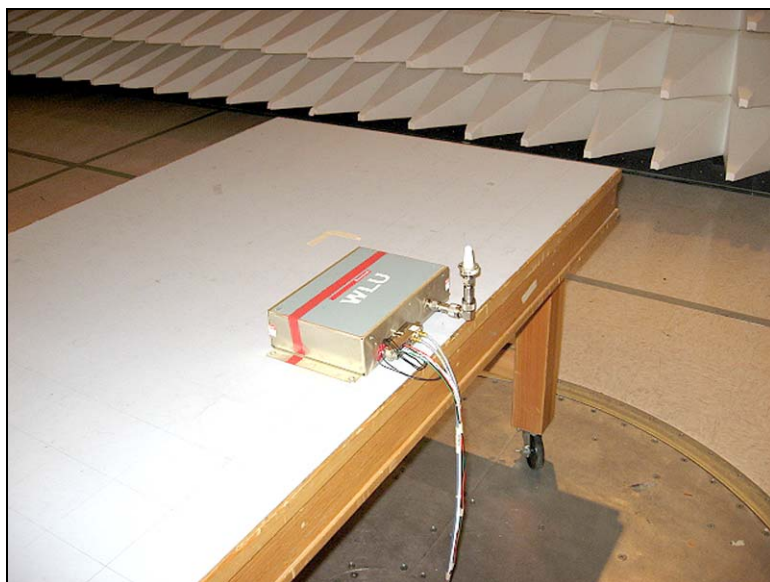
FCC 15.247(d)/15.209 – OATS RADIATED SPURIOUS EMISSIONS

Test Setup Photos

RADIATED SPURIOUS EMISSIONS - L-BAND ANTENNA



RADIATED SPURIOUS EMISSIONS - S-BAND ANTENNA



Test Data Sheets

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/28/2007
 Test Type: **Radiated Scan** Time: 13:34:00
 Equipment: **Wireless LAN Unit** Sequence#: 15
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Heliastat 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
HP 83017A .5 - 26.5 GHz Pre-amp	S/N: 3123A00464	10/03/2005	10/03/2007	AN01271
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412
2.8 GHz HP Filter	S/N: 2	03/07/2006	03/07/2008	AN02745
Bothell 5m Cable Set	S/N: P05444	04/26/2007	04/26/2009	ANP05444
20' RG-214 Coax	S/N: 16	11/09/2006	11/09/2008	ANP05360
Chase BILOG	S/N: 2458	01/31/2007	01/31/2009	AN01993
EMCO 6502 Active Loop	S/N: 2156	02/20/2006	02/20/2008	AN00052
12-18 GHz Horn	S/N: 1114019	04/13/2006	04/13/2008	AN02741
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05425
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05426

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz S-Band Antenna	Honeywell International	956-0033-002	235-0348

Support Devices:

Function	Manufacturer	Model #	S/N
WLU Breakout Box	Honeywell International	951-0456-003	
PC / Laptop	Various	700-8846-009 or equiv.	

Test Conditions / Notes:

WLU on table with S-Band antenna connected directly to RF port with elbow adapter, RF output power at max. Spurious emissions were tested at Channels 1, 7, and 11 in accordance with the test plan. Emissions that were dependant on the operating channel of the EUT are noted, all other emissions are the same for all 3 channels. Carrier/Modulation: 802.11g @ 24 MBps. Standard CISPR measurement bandwidths used. Frequency range tested: 10 kHz – 25 GHz. 28VDC, 24°C, 40% relative humidity.

Transducer Legend:

T1=AMP-AN01271-100305 - .5-26.5 GHz	T2=CAB-ANP05545-061906
T3=ANT-AN01412-121305	T4=CAB-ANP05423-051006
T5=ANT AN01993 25-1000MHz	T6=AMP-AN01517-071006
T7=CAB-ANP05444-042607 - CPC3 Cable Set	T8=CAB-ANP05360-110906
T9=Filter 3GHz HP AN02745	T10=ATT-ANP05509-072007

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	250.010M	55.2	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 217	43.3	46.0	-2.7	Horiz 100
^	250.027M	58.3	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 217	46.4	46.0	+0.4	Horiz 100
3	2687.987M	49.3	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 354	49.7	54.0	-4.3	Vert 137
^	2688.028M	53.9	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 354	54.3	54.0	+0.3	Vert 137
5	248.065M	53.3	+0.0 +12.7 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 226	41.3	46.0	-4.7	Horiz 100
^	248.059M	55.4	+0.0 +12.7 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 226	43.4	46.0	-2.6	Horiz 100
7	2688.002M	44.3	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 224	44.7	54.0	-9.3	Horiz 120
^	2688.060M	51.3	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 224	51.7	54.0	-2.3	Horiz 120
9	2359.993M	45.0	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0	+2.2 +0.0	+0.0 226	43.9	54.0	-10.1	Vert 100
^	2359.942M	57.6	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0	+2.2 +0.0	+0.0 226	56.5	54.0	+2.5	Vert 100
11	250.014M	47.7	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 145	35.8	46.0	-10.2	Vert 100
^	250.017M	51.1	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 145	39.2	46.0	-6.8	Vert 100

13	2360.002M Ave	42.8	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 246	41.7	54.0	-12.3	Horiz 115
^	2359.970M	58.7	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 246	57.6	54.0	+3.6	Horiz 115
15	1093.634M	48.0	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0 +0.0	+0.0 167	38.4	54.0	-15.6	Vert 100
16	4824.003M Ave	30.7	-33.0 +0.0 +0.3	+3.5 +0.0 +0.0	+33.3 +0.0 +0.0	+3.1 +0.0 +0.0	+0.0 189	37.9	54.0 TX CH1	-16.1	Vert 100
^	4824.071M	42.8	-33.0 +0.0 +0.3	+3.5 +0.0 +0.0	+33.3 +0.0 +0.0	+3.1 +0.0 +0.0	+0.0 189	50.0	54.0 TX CH1	-4.0	Vert 100
18	4883.979M Ave	29.6	-33.0 +0.0 +0.3	+3.6 +0.0 +0.0	+33.4 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 187	37.1	54.0 TX CH7	-16.9	Vert 100
^	4883.912M	42.7	-33.0 +0.0 +0.3	+3.6 +0.0 +0.0	+33.4 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 187	50.2	54.0 TX CH7	-3.8	Vert 100
20	1093.754M Ave	41.9	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0 +0.0	+0.0 34	32.3	54.0	-21.7	Horiz 100
^	1093.790M	48.2	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0 +0.0	+0.0 34	38.6	54.0	-15.4	Horiz 100

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/28/2007
 Test Type: **Radiated Scan** Time: 14:31:20
 Equipment: **Wireless LAN Unit** Sequence#: 14
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Helix 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
HP 83017A .5 - 26.5 GHz Pre-amp	S/N: 3123A00464	10/03/2005	10/03/2007	AN01271
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412
2.8 GHz HP Filter	S/N: 2	03/07/2006	03/07/2008	AN02745
Bothell 5m Cable Set	S/N: P05444	04/26/2007	04/26/2009	ANP05444
20' RG-214 Coax	S/N: 16	11/09/2006	11/09/2008	ANP05360
Chase BILOG	S/N: 2458	01/31/2007	01/31/2009	AN01993
EMCO 6502 Active Loop	S/N: 2156	02/20/2006	02/20/2008	AN00052
12-18 GHz Horn	S/N: 1114019	04/13/2006	04/13/2008	AN02741
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05425
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05426

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz S-Band Antenna	Honeywell International	956-0033-002	235-0348

Support Devices:

Function	Manufacturer	Model #	S/N
WLU Breakout Box	Honeywell International	951-0456-003	
PC / Laptop	Various	700-8846-009 or equiv.	

Test Conditions / Notes:

WLU on table with S-Band antenna connected directly to RF port with elbow adapter, RF output power at max. Spurious emissions were tested at Channels 1, 7, and 11 in accordance with the test plan. Emissions that were dependant on the operating channel of the EUT are noted, all other emissions are the same for all 3 channels. Carrier/Modulation: 802.11b @ 1 MBps. Standard CISPR measurement bandwidths used. Frequency range tested: 10 kHz – 25 GHz. 28VDC, 24°C, 40% relative humidity.

Transducer Legend:

T1=AMP-AN01271-100305 - .5-26.5 GHz	T2=CAB-ANP05545-061906
T3=ANT-AN01412-121305	T4=CAB-ANP05423-051006
T5=ANT AN01993 25-1000MHz	T6=AMP-AN01517-071006
T7=CAB-ANP05444-042607 - CPC3 Cable Set	T8=CAB-ANP05360-110906
T9=Filter 3GHz HP AN02745	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	2236.000M	55.4	-34.2 +0.0 +0.0	+2.2 +0.0 +0.0	+27.7 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 344	53.2	54.0 TX CH11	-0.8	Vert 110
^	2235.999M	59.8	-34.2 +0.0 +0.0	+2.2 +0.0 +0.0	+27.7 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 344	57.6	54.0 TX CH11	+3.6	Vert 110
3	250.010M	55.0	+0.0 +12.8 +0.0	+0.0 -27.0 +0.0	+0.0 +1.4 +0.0	+0.0 +0.9 +0.0	+0.0 216	43.1	46.0	-2.9	Horiz 100
^	250.027M	58.2	+0.0 +12.8 +0.0	+0.0 -27.0 +0.0	+0.0 +1.4 +0.0	+0.0 +0.9 +0.0	+0.0 216	46.3	46.0	+0.3	Horiz 100
5	2235.998M	52.8	-34.2 +0.0 +0.0	+2.2 +0.0 +0.0	+27.7 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 148	50.6	54.0 TX CH11	-3.4	Horiz 116
^	2235.962M	57.3	-34.2 +0.0 +0.0	+2.2 +0.0 +0.0	+27.7 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 148	55.1	54.0 TX CH11	+1.1	Horiz 116
7	248.070M	53.1	+0.0 +12.7 +0.0	+0.0 -27.0 +0.0	+0.0 +1.4 +0.0	+0.0 +0.9 +0.0	+0.0 217	41.1	46.0	-4.9	Horiz 100
^	248.047M	55.3	+0.0 +12.7 +0.0	+0.0 -27.0 +0.0	+0.0 +1.4 +0.0	+0.0 +0.9 +0.0	+0.0 217	43.3	46.0	-2.7	Horiz 100
9	248.066M	52.5	+0.0 +12.7 +0.0	+0.0 -27.0 +0.0	+0.0 +1.4 +0.0	+0.0 +0.9 +0.0	+0.0 231	40.5	46.0	-5.5	Vert 100
^	248.102M	53.5	+0.0 +12.7 +0.0	+0.0 -27.0 +0.0	+0.0 +1.4 +0.0	+0.0 +0.9 +0.0	+0.0 231	41.5	46.0	-4.5	Vert 100
11	2688.002M	46.1	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0 +0.0	+2.3 +0.0 +0.0	+0.0 333	46.5	54.0	-7.5	Vert 110
^	2688.100M	51.3	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0 +0.0	+2.3 +0.0 +0.0	+0.0 333	51.7	54.0	-2.3	Vert 110

13	2688.005M Ave	44.4	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0 +0.0	+2.3 +0.0 +0.0	+0.0 142	44.8	54.0	-9.2	Horiz 117
^	2687.948M	49.9	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0 +0.0	+2.3 +0.0 +0.0	+0.0 142	50.3	54.0	-3.7	Horiz 117
15	250.014M QP	47.7	+0.0 +12.8 +0.0	+0.0 -27.0 +1.4	+0.0 +0.9	+0.0 145		35.8	46.0	-10.2	Vert 100
^	250.017M	51.1	+0.0 +12.8 +0.0	+0.0 -27.0 +1.4	+0.0 +0.9	+0.0 145		39.2	46.0	-6.8	Vert 100
17	2360.027M Ave	43.3	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0	42.2	54.0	-11.8	Vert 123
^	2359.987M	60.1	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0	59.0	54.0	+5.0	Vert 123
19	1562.529M	45.8	-35.1 +0.0 +0.0	+2.0 +0.0 +0.0	+26.2 +0.0 +0.0	+1.7 +0.0	+0.0 195	40.6	54.0	-13.4	Vert 116
20	1562.754M	45.5	-35.1 +0.0 +0.0	+2.0 +0.0 +0.0	+26.2 +0.0 +0.0	+1.7 +0.0	+0.0 258	40.3	54.0	-13.7	Horiz 100
21	2360.028M Ave	41.2	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 144	40.1	54.0	-13.9	Horiz 109
^	2359.995M	45.3	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 144	44.2	54.0	-9.8	Horiz 109
23	1093.844M	48.0	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0	+0.0 38	38.4	54.0	-15.6	Horiz 100
24	4884.006M Ave	30.1	-33.0 +0.0 +0.3	+3.6 +0.0 +0.0	+33.4 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 178	37.6	54.0 TX CH7	-16.4	Vert 133
^	4884.054M	43.3	-33.0 +0.0 +0.3	+3.6 +0.0 +0.0	+33.4 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 178	50.8	54.0 TX CH7	-3.2	Vert 133
26	1093.863M	47.1	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0	+0.0 12	37.5	54.0	-16.5	Vert 114
27	468.750M QP	49.4	+0.0 +17.4 +0.0	+0.0 -27.9 +2.0	+0.0 +1.2	+0.0 152		42.1	100.0	-57.9	Vert 100
^	468.750M	50.5	+0.0 +17.4 +0.0	+0.0 -27.9 +2.0	+0.0 +1.2	+0.0 152		43.2	100.0	-56.8	Vert 100

29	312.502M QP	52.1	+0.0 +13.8 +0.0	+0.0 -27.1	+0.0 +1.6	+0.0 +0.9	+0.0 246	41.3	100.0	-58.7	Horiz 100
^	312.501M	52.8	+0.0 +13.8 +0.0	+0.0 -27.1	+0.0 +1.6	+0.0 +0.9	+0.0 246	42.0	100.0	-58.0	Horiz 100
31	310.081M QP	51.9	+0.0 +13.7 +0.0	+0.0 -27.0	+0.0 +1.6	+0.0 +0.9	+0.0 245	41.1	100.0	-58.9	Horiz 100
^	310.078M	52.6	+0.0 +13.7 +0.0	+0.0 -27.0	+0.0 +1.6	+0.0 +0.9	+0.0 245	41.8	100.0	-58.2	Horiz 100
33	312.501M QP	50.3	+0.0 +13.8 +0.0	+0.0 -27.1	+0.0 +1.6	+0.0 +0.9	+0.0 357	39.5	100.0	-60.5	Vert 100
^	312.511M	51.5	+0.0 +13.8 +0.0	+0.0 -27.1	+0.0 +1.6	+0.0 +0.9	+0.0 357	40.7	100.0	-59.3	Vert 100
35	310.079M QP	49.7	+0.0 +13.7 +0.0	+0.0 -27.0	+0.0 +1.6	+0.0 +0.9	+0.0 28	38.9	100.0	-61.1	Vert 100
^	310.078M	50.7	+0.0 +13.7 +0.0	+0.0 -27.0	+0.0 +1.6	+0.0 +0.9	+0.0 28	39.9	100.0	-60.1	Vert 100
37	468.749M QP	45.3	+0.0 +17.4 +0.0	+0.0 -27.9	+0.0 +2.0	+0.0 +1.2	+0.0 344	38.0	100.0	-62.0	Horiz 100
^	468.747M	46.3	+0.0 +17.4 +0.0	+0.0 -27.9	+0.0 +2.0	+0.0 +1.2	+0.0 344	39.0	100.0	-61.0	Horiz 100
39	781.247M QP	39.6	+0.0 +22.0 +0.0	+0.0 -28.5	+0.0 +2.5	+0.0 +1.8	+0.0 274	37.4	100.0	-62.6	Vert 100
^	781.253M	41.0	+0.0 +22.0 +0.0	+0.0 -28.5	+0.0 +2.5	+0.0 +1.8	+0.0 274	38.8	100.0	-61.2	Vert 100
41	744.179M	38.7	+0.0 +21.4 +0.0	+0.0 -28.5	+0.0 +2.4	+0.0 +1.7	+0.0 78	35.7	100.0	-64.3	Horiz 100
42	781.248M QP	37.7	+0.0 +22.0 +0.0	+0.0 -28.5	+0.0 +2.5	+0.0 +1.8	+0.0 163	35.5	100.0	-64.5	Horiz 100
^	781.241M	39.4	+0.0 +22.0 +0.0	+0.0 -28.5	+0.0 +2.5	+0.0 +1.8	+0.0 163	37.2	100.0	-62.8	Horiz 100
44	937.499M	33.9	+0.0 +23.8 +0.0	+0.0 -27.7	+0.0 +2.8	+0.0 +2.0	+0.0 127	34.8	100.0	-65.2	Vert 100

45	744.180M	37.6	+0.0 +21.4 +0.0	+0.0 -28.5	+0.0 +2.4	+0.0 +1.7	+0.0 1	34.6	100.0	-65.4	Vert 100
46	372.091M	42.6	+0.0 +15.3 +0.0	+0.0 -27.5	+0.0 +1.7	+0.0 +1.1	+0.0 244	33.2	100.0	-66.8	Horiz 100
47	937.494M QP	32.3	+0.0 +23.8 +0.0	+0.0 -27.7	+0.0 +2.8	+0.0 +2.0	+0.0 22	33.2	100.0	-66.8	Horiz 100
^	937.497M	35.6	+0.0 +23.8 +0.0	+0.0 -27.7	+0.0 +2.8	+0.0 +2.0	+0.0 22	36.5	100.0	-63.5	Horiz 100
49	496.130M	39.2	+0.0 +17.9 +0.0	+0.0 -28.2	+0.0 +2.0	+0.0 +1.2	+0.0 268	32.1	100.0	-67.9	Horiz 100
50	624.980M	36.6	+0.0 +20.0 +0.0	+0.0 -28.5	+0.0 +2.3	+0.0 +1.4	+0.0 214	31.8	100.0	-68.2	Vert 100
51	625.009M	36.6	+0.0 +20.0 +0.0	+0.0 -28.5	+0.0 +2.3	+0.0 +1.4	+0.0 89	31.8	100.0	-68.2	Horiz 131
52	372.096M QP	39.6	+0.0 +15.3 +0.0	+0.0 -27.5	+0.0 +1.7	+0.0 +1.1	+0.0 327	30.2	100.0	-69.8	Vert 100
^	372.100M	41.4	+0.0 +15.3 +0.0	+0.0 -27.5	+0.0 +1.7	+0.0 +1.1	+0.0 327	32.0	100.0	-68.0	Vert 100
54	496.134M QP	36.2	+0.0 +17.9 +0.0	+0.0 -28.2	+0.0 +2.0	+0.0 +1.2	+0.0 7	29.1	100.0	-70.9	Vert 100
^	496.122M	38.6	+0.0 +17.9 +0.0	+0.0 -28.2	+0.0 +2.0	+0.0 +1.2	+0.0 7	31.5	100.0	-68.5	Vert 100
56	186.050M QP	40.4	+0.0 +9.0 +0.0	+0.0 -27.3	+0.0 +1.2	+0.0 +0.7	+0.0 177	24.0	100.0	-76.0	Vert 100
^	186.022M	56.5	+0.0 +9.0 +0.0	+0.0 -27.3	+0.0 +1.2	+0.0 +0.7	+0.0 177	40.1	100.0	-59.9	Vert 100

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/28/2007
 Test Type: **Radiated Scan** Time: 13:36:37
 Equipment: **Wireless LAN Unit** Sequence#: 16
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Helix 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
HP 83017A .5 - 26.5 GHz Pre-amp	S/N: 3123A00464	10/03/2005	10/03/2007	AN01271
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412
2.8 GHz HP Filter	S/N: 2	03/07/2006	03/07/2008	AN02745
Bothell 5m Cable Set	S/N: P05444	04/26/2007	04/26/2009	ANP05444
20' RG-214 Coax	S/N: 16	11/09/2006	11/09/2008	ANP05360
Chase BILOG	S/N: 2458	01/31/2007	01/31/2009	AN01993
EMCO 6502 Active Loop	S/N: 2156	02/20/2006	02/20/2008	AN00052
12-18 GHz Horn	S/N: 1114019	04/13/2006	04/13/2008	AN02741
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05425
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05426

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz L-Band Antenna	Honeywell International	956-0033-001	258-1471

Support Devices:

Function	Manufacturer	Model #	S/N
WLU Breakout Box	Honeywell International	951-0456-003	
PC / Laptop	Various	700-8846-009 or equiv.	

Test Conditions / Notes:

WLU on table with L-Band antenna connected directly to RF port with elbow adapter, RF output power at max. Spurious emissions were tested at Channels 1, 7, and 11 in accordance with the test plan. Emissions that were dependant on the operating channel of the EUT are noted, all other emissions are the same for all 3 channels. Carrier/Modulation: 802.11g @ 24 MBps. Standard CISPR measurement bandwidths used. Frequency range tested: 10 kHz – 25 GHz. 28VDC, 24°C, 40% relative humidity.

Transducer Legend:

T1=AMP-AN01271-100305 - .5-26.5 GHz	T2=CAB-ANP05545-061906
T3=ANT-AN01412-121305	T4=CAB-ANP05423-051006
T5=ANT AN01993 25-1000MHz	T6=AMP-AN01517-071006
T7=CAB-ANP05444-042607 - CPC3 Cable Set	T8=CAB-ANP05360-110906
T9=Filter 3GHz HP AN02745	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	250.004M	54.4	+0.0	+0.0	+0.0	+0.0	+0.0	42.5	46.0	-3.5	Horiz
	QP		+12.8	-27.0	+1.4	+0.9	193				100
			+0.0								
^	250.005M	57.1	+0.0	+0.0	+0.0	+0.0	+0.0	45.2	46.0	-0.8	Horiz
			+12.8	-27.0	+1.4	+0.9	193				100
			+0.0								
3	4884.008M	41.8	-33.0	+3.6	+33.4	+3.2	+0.0	49.3	54.0	-4.7	Vert
	Ave		+0.0	+0.0	+0.0	+0.0	293		TX CH7		100
			+0.3								
^	4884.032M	47.8	-33.0	+3.6	+33.4	+3.2	+0.0	55.3	54.0	+1.3	Vert
			+0.0	+0.0	+0.0	+0.0	293		TX CH7		100
			+0.3								
5	4823.998M	41.8	-33.0	+3.5	+33.3	+3.1	+0.0	49.0	54.0	-5.0	Vert
	Ave		+0.0	+0.0	+0.0	+0.0	249		TX CH1		100
			+0.3								
^	4823.931M	48.1	-33.0	+3.5	+33.3	+3.1	+0.0	55.3	54.0	+1.3	Vert
			+0.0	+0.0	+0.0	+0.0	249		TX CH1		100
			+0.3								
7	248.066M	52.8	+0.0	+0.0	+0.0	+0.0	+0.0	40.8	46.0	-5.2	Horiz
	QP		+12.7	-27.0	+1.4	+0.9	193				100
			+0.0								
^	248.058M	55.3	+0.0	+0.0	+0.0	+0.0	+0.0	43.3	46.0	-2.7	Horiz
			+12.7	-27.0	+1.4	+0.9	193				100
			+0.0								
9	4924.002M	40.5	-32.9	+3.6	+33.5	+3.2	+0.0	48.2	54.0	-5.8	Vert
	Ave		+0.0	+0.0	+0.0	+0.0	273				106
			+0.3								
^	4924.025M	47.1	-32.9	+3.6	+33.5	+3.2	+0.0	54.8	54.0	+0.8	Vert
			+0.0	+0.0	+0.0	+0.0	273				106
			+0.3								
11	2688.015M	47.8	-33.7	+2.4	+29.4	+2.3	+0.0	48.2	54.0	-5.8	Horiz
	Ave		+0.0	+0.0	+0.0	+0.0	207				104
			+0.0								
^	2688.002M	51.8	-33.7	+2.4	+29.4	+2.3	+0.0	52.2	54.0	-1.8	Horiz
			+0.0	+0.0	+0.0	+0.0	207				104
			+0.0								

13	2688.005M Ave	47.7	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0 +0.0	+2.3 +0.0 +0.0	+0.0 218	48.1	54.0	-5.9	Vert 104
^	2687.925M	52.3	-33.7 +0.0 +0.0	+2.4 +0.0 +0.0	+29.4 +0.0 +0.0	+2.3 +0.0 +0.0	+0.0 218	52.7	54.0	-1.3	Vert 104
15	4924.011M Ave	36.4	-32.9 +0.0 +0.3	+3.6 +0.0 +0.0	+33.5 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 10	44.1	54.0	-9.9	Horiz 123
^	4923.958M	45.5	-32.9 +0.0 +0.3	+3.6 +0.0 +0.0	+33.5 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 10	53.2	54.0	-0.8	Horiz 123
17	4884.002M Ave	36.2	-33.0 +0.0 +0.3	+3.6 +0.0 +0.0	+33.4 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 164	43.7	54.0 TX CH7	-10.3	Horiz 130
^	4883.984M	45.2	-33.0 +0.0 +0.3	+3.6 +0.0 +0.0	+33.4 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 164	52.7	54.0 TX CH7	-1.3	Horiz 130
19	4824.004M Ave	36.3	-33.0 +0.0 +0.3	+3.5 +0.0 +0.0	+33.3 +0.0 +0.0	+3.1 +0.0 +0.0	+0.0 314	43.5	54.0 TX CH1	-10.5	Horiz 121
^	4823.950M	45.2	-33.0 +0.0 +0.3	+3.5 +0.0 +0.0	+33.3 +0.0 +0.0	+3.1 +0.0 +0.0	+0.0 314	52.4	54.0 TX CH1	-1.6	Horiz 121
21	2360.008M Ave	42.2	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 253	41.1	54.0	-12.9	Vert 100
^	2359.917M	58.6	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 253	57.5	54.0	+3.5	Vert 100
23	1562.698M	46.2	-35.1 +0.0 +0.0	+2.0 +0.0 +0.0	+26.2 +0.0 +0.0	+1.7 +0.0 +0.0	+0.0 146	41.0	54.0	-13.0	Vert 100
24	2360.023M Ave	41.5	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 143	40.4	54.0	-13.6	Horiz 100
^	2360.000M	60.1	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 143	59.0	54.0	+5.0	Horiz 100
26	1562.620M	45.4	-35.1 +0.0 +0.0	+2.0 +0.0 +0.0	+26.2 +0.0 +0.0	+1.7 +0.0 +0.0	+0.0 242	40.2	54.0	-13.8	Horiz 122
27	1093.722M	48.0	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0 +0.0	+0.0 35	38.4	54.0	-15.6	Horiz 100
28	1093.678M	46.6	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0 +0.0	+0.0 83	37.0	54.0	-17.0	Vert 100

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/28/2007
 Test Type: **Radiated Scan** Time: 13:33:33
 Equipment: **Wireless LAN Unit** Sequence#: 17
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Helix 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
HP 83017A .5 - 26.5 GHz Pre-amp	S/N: 3123A00464	10/03/2005	10/03/2007	AN01271
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412
2.8 GHz HP Filter	S/N: 2	03/07/2006	03/07/2008	AN02745
Bothell 5m Cable Set	S/N: P05444	04/26/2007	04/26/2009	ANP05444
20' RG-214 Coax	S/N: 16	11/09/2006	11/09/2008	ANP05360
Chase BILOG	S/N: 2458	01/31/2007	01/31/2009	AN01993
EMCO 6502 Active Loop	S/N: 2156	02/20/2006	02/20/2008	AN00052
12-18 GHz Horn	S/N: 1114019	04/13/2006	04/13/2008	AN02741
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05425
120" Pasternack 40 GHz Coax	S/N: N/A	07/20/2007	07/20/2009	AN05426

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz L-Band Antenna	Honeywell International	956-0033-001	258-1471

Support Devices:

Function	Manufacturer	Model #	S/N
WLU Breakout Box	Honeywell International	951-0456-003	
PC / Laptop	Various	700-8846-009 or equiv.	

Test Conditions / Notes:

WLU on table with L-Band antenna connected directly to RF port with elbow adapter, RF output power at max. Spurious emissions were tested at Channels 1, 7, and 11 in accordance with the test plan. Emissions that were dependant on the operating channel of the EUT are noted, all other emissions are the same for all 3 channels. Carrier/Modulation: 802.11b @ 1 MBps. Standard CISPR measurement bandwidths used. Frequency range tested: 10 kHz – 25 GHz. 28VDC, 24°C, 40% relative humidity.

Transducer Legend:

T1=AMP-AN01271-100305 - .5-26.5 GHz	T2=CAB-ANP05545-061906
T3=ANT-AN01412-121305	T4=CAB-ANP05423-051006
T5=ANT AN01993 25-1000MHz	T6=AMP-AN01517-071006
T7=CAB-ANP05444-042607 - CPC3 Cable Set	T8=CAB-ANP05360-110906
T9=Filter 3GHz HP AN02745	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	2236.002M Ave	55.2	-34.2 +0.0 +0.0	+2.2 +0.0	+27.7 +0.0	+2.1 +0.0	+0.0 148	53.0	54.0 TX CH11	-1.0	Horiz 103
^	2236.069M	59.0	-34.2 +0.0 +0.0	+2.2 +0.0	+27.7 +0.0	+2.1 +0.0	+0.0 148	56.8	54.0 TX CH11	+2.8	Horiz 103
3	2235.997M Ave	54.8	-34.2 +0.0 +0.0	+2.2 +0.0	+27.7 +0.0	+2.1 +0.0	+0.0 299	52.6	54.0 TX CH11	-1.4	Vert 137
^	2236.072M	58.7	-34.1 +0.0 +0.0	+2.2 +0.0	+27.7 +0.0	+2.1 +0.0	+0.0 299	56.6	54.0 TX CH11	+2.6	Vert 137
5	250.011M QP	54.1	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 179	42.2	46.0	-3.8	Horiz 100
^	250.011M	56.3	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 179	44.4	46.0	-1.6	Horiz 100
7	248.067M QP	54.1	+0.0 +12.7 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 39	42.1	46.0	-3.9	Horiz 100
^	248.067M	56.1	+0.0 +12.7 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 39	44.1	46.0	-1.9	Horiz 100
9	248.065M QP	53.5	+0.0 +12.7 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 153	41.5	46.0	-4.5	Vert 180
^	248.067M	55.5	+0.0 +12.7 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 153	43.5	46.0	-2.5	Vert 180
11	4884.008M Ave	41.8	-33.0 +0.0 +0.3	+3.6 +0.0	+33.4 +0.0	+3.2 +0.0	+0.0 293	49.3	54.0 TX CH7	-4.7	Vert 100
^	4884.032M	47.8	-33.0 +0.0 +0.3	+3.6 +0.0	+33.4 +0.0	+3.2 +0.0	+0.0 293	55.3	54.0 TX CH7	+1.3	Vert 100

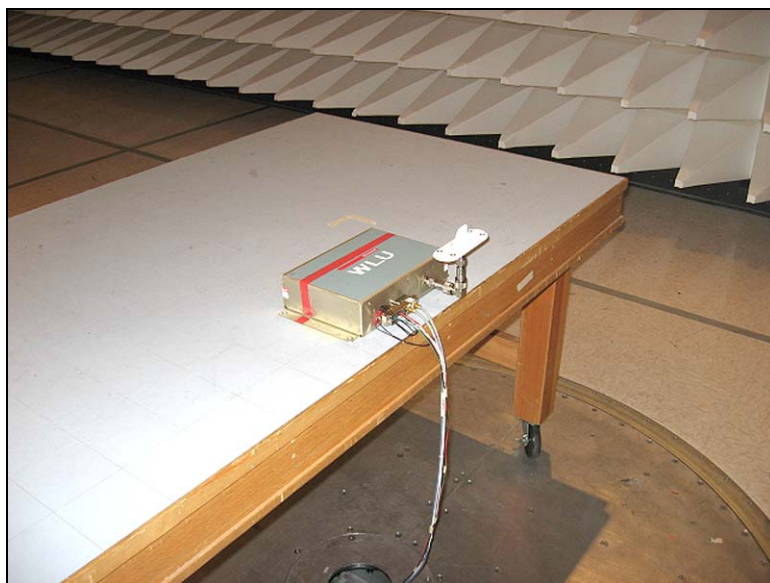
13	250.011M QP	52.9	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 145	41.0	46.0	-5.0	Vert 179
^	250.002M	55.8	+0.0 +12.8 +0.0	+0.0 -27.0	+0.0 +1.4	+0.0 +0.9	+0.0 145	43.9	46.0	-2.1	Vert 179
15	4823.998M Ave	41.8	-33.0 +0.0 +0.3	+3.5 +0.0	+33.3 +0.0	+3.1 +0.0	+0.0 249	49.0	54.0 TX CH1	-5.0	Vert 100
^	4823.931M	48.1	-33.0 +0.0 +0.3	+3.5 +0.0	+33.3 +0.0	+3.1 +0.0	+0.0 249	55.3	54.0 TX CH1	+1.3	Vert 100
17	2688.006M Ave	48.6	-33.7 +0.0 +0.0	+2.4 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 207	49.0	54.0	-5.0	Horiz 104
^	2687.980M	52.1	-33.7 +0.0 +0.0	+2.4 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 207	52.5	54.0	-1.5	Horiz 104
19	4924.002M Ave	40.5	-32.9 +0.0 +0.3	+3.6 +0.0	+33.5 +0.0	+3.2 +0.0	+0.0 273	48.2	54.0 TX CH11	-5.8	Vert 106
^	4924.025M	47.1	-32.9 +0.0 +0.3	+3.6 +0.0	+33.5 +0.0	+3.2 +0.0	+0.0 273	54.8	54.0 TX CH11	+0.8	Vert 106
21	2687.996M Ave	47.4	-33.7 +0.0 +0.0	+2.4 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 225	47.8	54.0	-6.2	Vert 104
^	2688.020M	51.5	-33.7 +0.0 +0.0	+2.4 +0.0	+29.4 +0.0	+2.3 +0.0	+0.0 225	51.9	54.0	-2.1	Vert 104
23	4924.011M Ave	36.4	-32.9 +0.0 +0.3	+3.6 +0.0	+33.5 +0.0	+3.2 +0.0	+0.0 10	44.1	54.0 TX CH11	-9.9	Horiz 123
^	4923.958M	45.5	-32.9 +0.0 +0.3	+3.6 +0.0	+33.5 +0.0	+3.2 +0.0	+0.0 10	53.2	54.0 TX CH11	-0.8	Horiz 123
25	4884.002M Ave	36.2	-33.0 +0.0 +0.3	+3.6 +0.0	+33.4 +0.0	+3.2 +0.0	+0.0 164	43.7	54.0 TX CH7	-10.3	Horiz 130
^	4883.984M	45.2	-33.0 +0.0 +0.3	+3.6 +0.0	+33.4 +0.0	+3.2 +0.0	+0.0 164	52.7	54.0 TX CH7	-1.3	Horiz 130
27	4824.004M Ave	36.3	-33.0 +0.0 +0.3	+3.5 +0.0	+33.3 +0.0	+3.1 +0.0	+0.0 314	43.5	54.0 TX CH1	-10.5	Horiz 121
^	4823.950M	45.2	-33.0 +0.0 +0.3	+3.5 +0.0	+33.3 +0.0	+3.1 +0.0	+0.0 314	52.4	54.0 TX CH1	-1.6	Horiz 121

29	2360.018M Ave	42.6	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 300	41.5	54.0	-12.5	Vert 152
^	2360.109M	56.9	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 300	55.8	54.0	+1.8	Vert 152
31	2360.019M Ave	42.5	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 144	41.4	54.0	-12.6	Horiz 100
^	2360.103M	56.4	-34.0 +0.0 +0.0	+2.3 +0.0 +0.0	+28.4 +0.0 +0.0	+2.2 +0.0 +0.0	+0.0 144	55.3	54.0	+1.3	Horiz 100
33	1562.461M	45.8	-35.1 +0.0 +0.0	+2.0 +0.0 +0.0	+26.2 +0.0 +0.0	+1.7 +0.0 +0.0	+0.0 341	40.6	54.0	-13.4	Vert 138
34	1562.260M	45.8	-35.1 +0.0 +0.0	+2.0 +0.0 +0.0	+26.2 +0.0 +0.0	+1.7 +0.0 +0.0	+0.0 255	40.6	54.0	-13.4	Horiz 133
35	2320.000M Ave	41.0	-34.1 +0.0 +0.0	+2.3 +0.0 +0.0	+28.2 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 142	39.5	54.0	-14.5	Horiz 100
^	2320.047M	53.0	-34.1 +0.0 +0.0	+2.3 +0.0 +0.0	+28.2 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 142	51.5	54.0	-2.5	Horiz 100
37	2320.010M Ave	40.7	-34.1 +0.0 +0.0	+2.3 +0.0 +0.0	+28.2 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 321	39.2	54.0	-14.8	Vert 177
^	2320.052M	52.9	-34.1 +0.0 +0.0	+2.3 +0.0 +0.0	+28.2 +0.0 +0.0	+2.1 +0.0 +0.0	+0.0 321	51.4	54.0	-2.6	Vert 177
39	1093.754M	48.4	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0 +0.0	+0.0 66	38.8	54.0	-15.2	Horiz 100
40	1093.692M	47.3	-36.8 +0.0 +0.0	+1.6 +0.0 +0.0	+24.1 +0.0 +0.0	+1.5 +0.0 +0.0	+0.0 19	37.7	54.0	-16.3	Vert 113

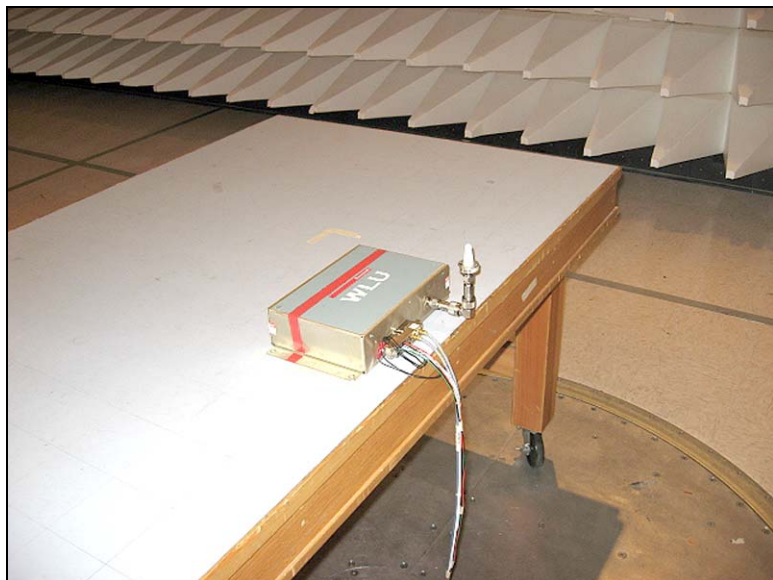
FCC 15.247(d) – BANDEDGE

Test Setup Photos

BAND EDGE EMISSIONS - L-BAND ANTENNA



BAND EDGE EMISSIONS - S-BAND ANTENNA



Test Data Sheets

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/25/2007
 Test Type: **Radiated Scan** Time: 13:52:03
 Equipment: **Wireless LAN Unit** Sequence#: 4
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Heliac 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz S-Band Antenna	Honeywell International	956-0033-002	235-0348

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU on table with S-Band antenna connected directly to RF port RF output power at max. Carrier/Modulation: 802.11g @ 24 MBps. RBW=1 MHz, VBW=1 Hz, Average Detector. EUT operating frequency: 2412 MHz and 2462 MHz. Frequency range tested: 2380-2410 MHz and 2468.5-2498.5 MHz.

Transducer Legend:

T1=CAB-ANP05545-061906	T2=ANT-AN01412-121305
T3=CAB-ANP05423-051006	

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2483.500M Ave	30.1	+2.4	+29.1	+2.2	-10.0 344	53.8	54.0	-0.2	Vert 100
2	2483.500M Ave	21.2	+2.4	+29.1	+2.2	-10.0 146	44.9	54.0	-9.1	Horiz 100
3	2400.000M Ave	41.9	+2.4	+28.7	+2.2	-10.0 319	65.2	85.5	-20.3	Vert 100
4	2400.000M Ave	32.8	+2.4	+28.7	+2.2	-10.0 279	56.1	85.5	-29.4	Horiz 100

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/25/2007
 Test Type: **Radiated Scan** Time: 11:21:40
 Equipment: **Wireless LAN Unit** Sequence#: 3
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Heliac 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz S-Band Antenna	Honeywell International	956-0033-002	235-0348

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU on table with S-Band antenna connected directly to RF port RF output power at max. Carrier/Modulation: 802.11g @ 6 MBps. RBW=1 MHz, VBW=1 Hz, Average Detector. EUT operating frequency: 2412 MHz and 2462 MHz. Frequency range tested: 2380-2410 MHz and 2468.5-2498.5 MHz.

Transducer Legend:

T1=CAB-ANP05545-061906	T2=ANT-AN01412-121305
T3=CAB-ANP05423-051006	

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2483.500M	29.8	+2.4	+29.1	+2.2	-10.0	53.5	54.0	-0.5	Vert
	Ave					344				100
2	2483.500M	22.8	+2.4	+29.1	+2.2	-10.0	46.5	54.0	-7.5	Horiz
	Ave					144				100
3	2400.000M	42.9	+2.4	+28.7	+2.2	-10.0	66.2	85.5	-19.3	Vert
	Ave					319				100
4	2400.000M	33.1	+2.4	+28.7	+2.2	-10.0	56.4	85.5	-29.1	Horiz
	Ave					279				100

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717
 Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/25/2007
 Test Type: **Radiated Scan** Time: 14:59:03
 Equipment: **Wireless LAN Unit** Sequence#: 5
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Helix 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz S-Band Antenna	Honeywell International	956-0033-002	235-0348

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU on table with S-Band antenna connected directly to RF port RF output power at max. Carrier/Modulation: 802.11b @ 11 MBps. RBW=1 MHz, VBW=1 Hz, Average Detector. EUT operating frequency: 2412 MHz and 2462 MHz. Frequency range tested: 2380-2410 MHz and 2468.5-2498.5 MHz.

Transducer Legend:

T1=CAB-ANP05545-061906	T2=ANT-AN01412-121305
T3=CAB-ANP05423-051006	

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2483.500M	22.3	+2.4	+29.1	+2.2		-10.0	46.0	54.0	-8.0	Vert
	Ave						15				100
2	2386.740M	21.8	+2.4	+28.6	+2.2		-10.0	45.0	54.0	-9.0	Vert
	Ave						344				100
3	2483.500M	15.3	+2.4	+29.1	+2.2		-10.0	39.0	54.0	-15.0	Horiz
	Ave						143				100
4	2386.780M	15.6	+2.4	+28.6	+2.2		-10.0	38.8	54.0	-15.2	Horiz
	Ave						135				106
5	2398.700M	41.7	+2.4	+28.6	+2.2		-10.0	64.9	86.7	-21.8	Vert
	Ave						344				100
6	2398.520M	34.3	+2.4	+28.6	+2.2		-10.0	57.5	86.7	-29.2	Horiz
	Ave						135				106

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/25/2007
 Test Type: **Radiated Scan** Time: 16:06:26
 Equipment: **Wireless LAN Unit** Sequence#: 12
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Helix 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz L-Band Antenna	Honeywell International	956-0033-001	258-1471

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU on table with L-Band antenna connected directly to RF port RF output power at max. Carrier/Modulation: 802.11b @ 11 MBps. RBW=1 MHz, VBW=1 Hz, Average Detector. EUT operating frequency: 2412 MHz and 2462 MHz. Frequency range tested: 2375-2415 MHz and 2463.5-2503.5 MHz.

Transducer Legend:

T1=CAB-ANP05545-061906	T2=ANT-AN01412-121305
T3=CAB-ANP05423-051006	

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	Dist dB	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2483.500M	18.2	+2.4	+29.1	+2.2	-10.0	41.9	54.0	-12.1	Vert
	Ave					159				100
2	2483.500M	16.9	+2.4	+29.1	+2.2	-10.0	40.6	54.0	-13.4	Horiz
	Ave					309				100
3	2398.760M	40.3	+2.4	+28.6	+2.2	-10.0	63.5	86.7	-23.2	Vert
	Ave					163				107
4	2398.380M	39.3	+2.4	+28.6	+2.2	-10.0	62.5	86.7	-24.2	Horiz
	Ave					143				105

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**
 Specification: **FCC 15.247 (d) / 15.209 / 15.205 with 2.4 GHz DSSS**
 Work Order #: **86870** Date: 9/25/2007
 Test Type: **Radiated Scan** Time: 16:54:09
 Equipment: **Wireless LAN Unit** Sequence#: 13
 Manufacturer: Honeywell International Tested By: Ryan Rutledge
 Model: 965-1702-001R
 S/N: WLU-00208

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4440A	S/N: MY46186330	10/03/2007	10/03/2009	AN02872
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05423
30' Andrews Heliac 18 GHz	S/N: N/A	06/19/2006	06/19/2008	AN05545
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless LAN Unit*	Honeywell International	965-1702-001R	WLU-00208
2.4 GHz L-Band Antenna	Honeywell International	956-0033-001	258-1471

Support Devices:

Function	Manufacturer	Model #	S/N
PC / Laptop	Various	700-8846-009 or equiv.	
3COM OfficeConnect	3COM	3CRWE454G72 or equiv.	
Wireless 11g Access Point			
WLU Breakout Box	Honeywell International	951-0456-003	
WLU WiFi antenna	Sensor Systems	PNR 956-0033-001R	258-1262

Test Conditions / Notes:

WLU on table with L-Band antenna connected directly to RF port RF output power at max. Carrier/Modulation: 802.11g @ 24 MBps. RBW=1 MHz, VBW=1 Hz, Average Detector. EUT operating frequency: 2412 MHz and 2462 MHz. Frequency range tested: 2375-2415 MHz and 2463.5-2503.5 MHz.

Transducer Legend:

T1=CAB-ANP05545-061906	T2=ANT-AN01412-121305
T3=CAB-ANP05423-051006	

Measurement Data:

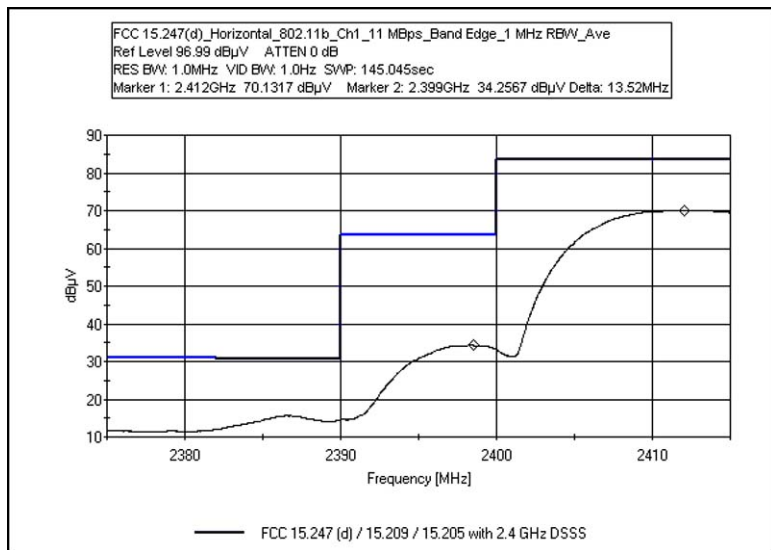
Reading listed by margin.

Test Distance: 1 Meter

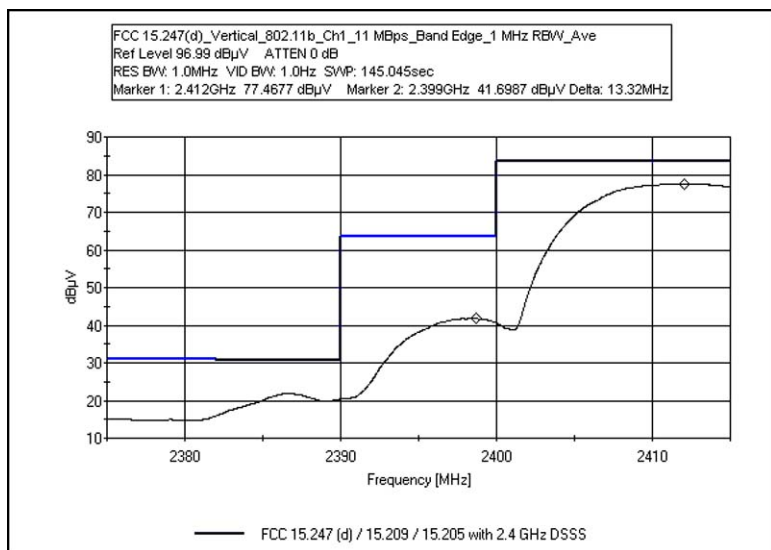
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2483.500M	25.3	+2.4	+29.1	+2.2		-10.0	49.0	54.0	-5.0	Vert
	Ave						47				107
2	2483.500M	24.6	+2.4	+29.1	+2.2		-10.0	48.3	54.0	-5.7	Horiz
	Ave						306				109
3	2400.000M	40.2	+2.4	+28.7	+2.2		-10.0	63.5	85.5	-22.0	Vert
	Ave						161				107
4	2400.000M	39.2	+2.4	+28.7	+2.2		-10.0	62.5	85.5	-23.0	Horiz
	Ave						141				108

Test Plots

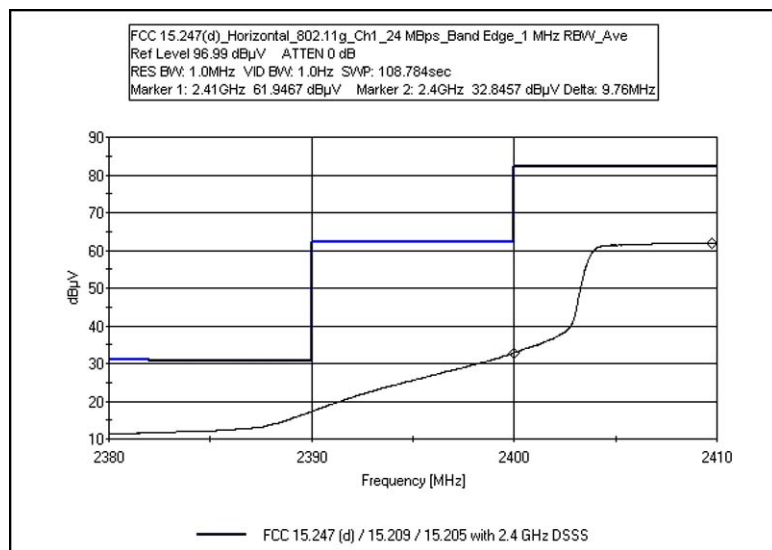
FCC 15.247(d) BANDEDGE - 802.11b CHANNEL 1 11MBps HORIZONTAL



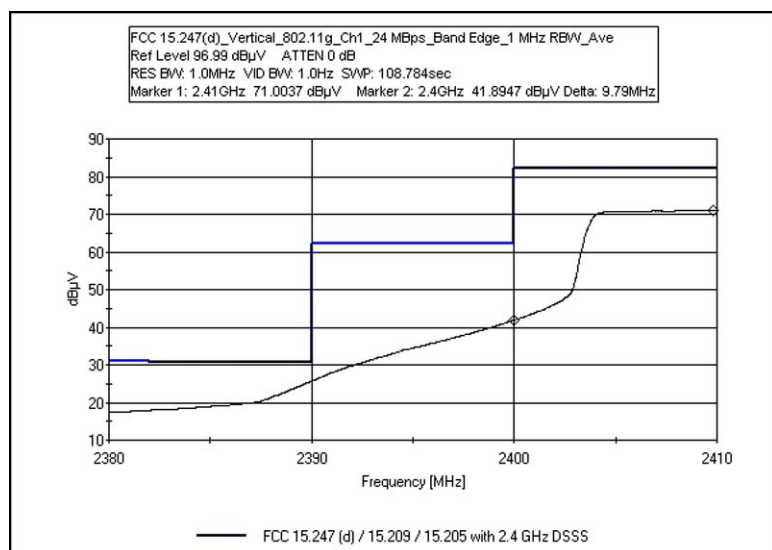
FCC 15.247(d) BANDEDGE - 802.11b CHANNEL 1 11MBps VERTICAL



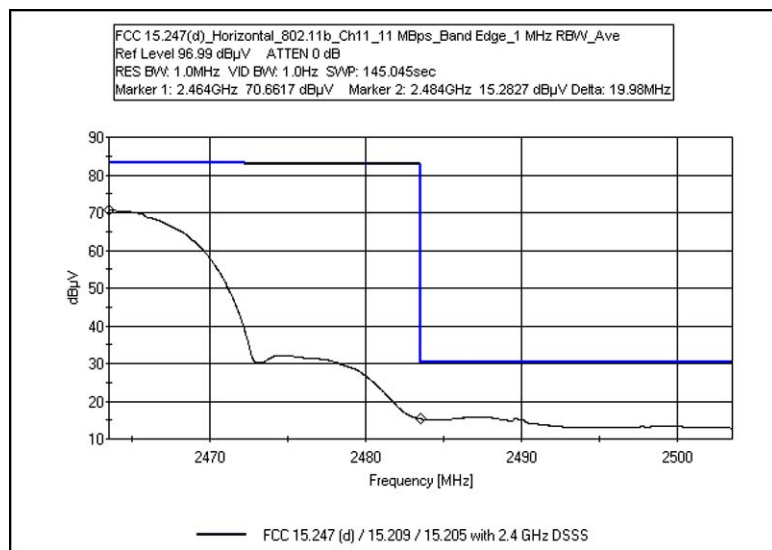
FCC 15.247(d) BANDEDGE - 802.11b CHANNEL 1 24MBps HORIZONTAL



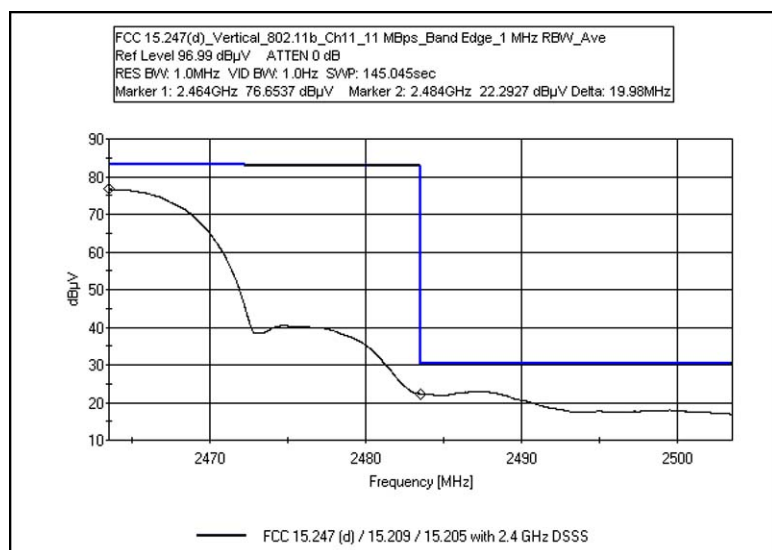
FCC 15.247(d) BANDEDGE - 802.11b CHANNEL 1 24MBps VERTICAL



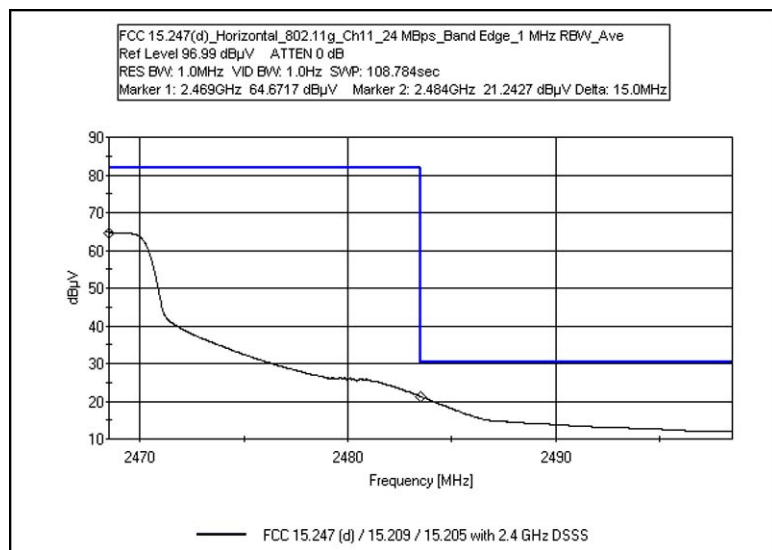
FCC 15.247(d) BANDEDGE - 802.11b CHANNEL 11 11Mbps HORIZONTAL



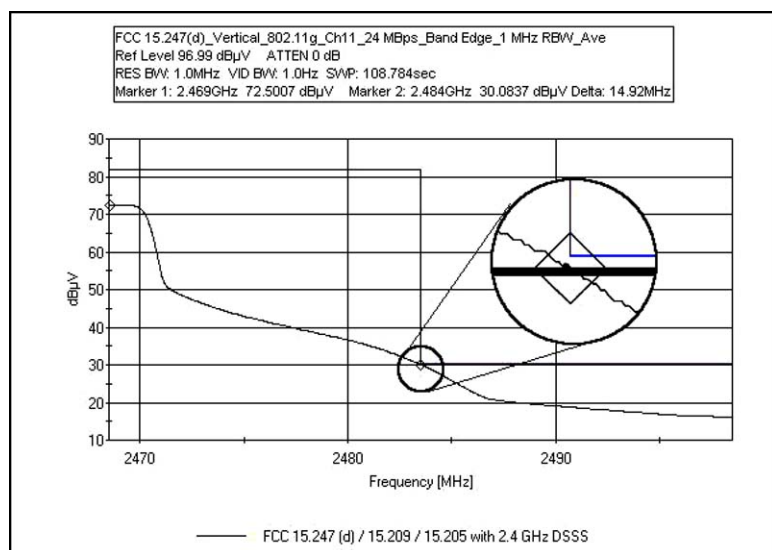
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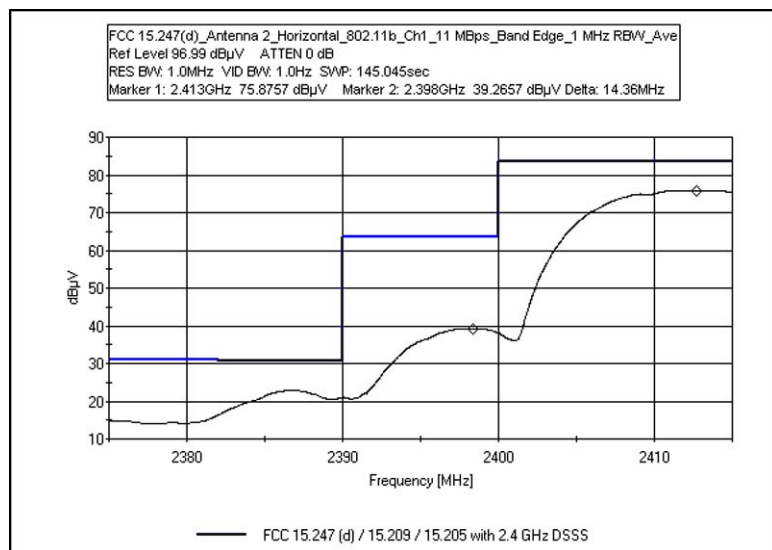
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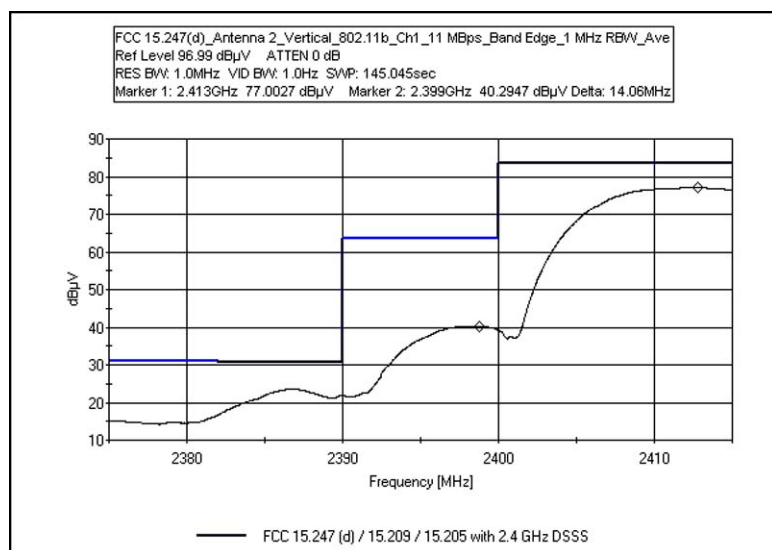
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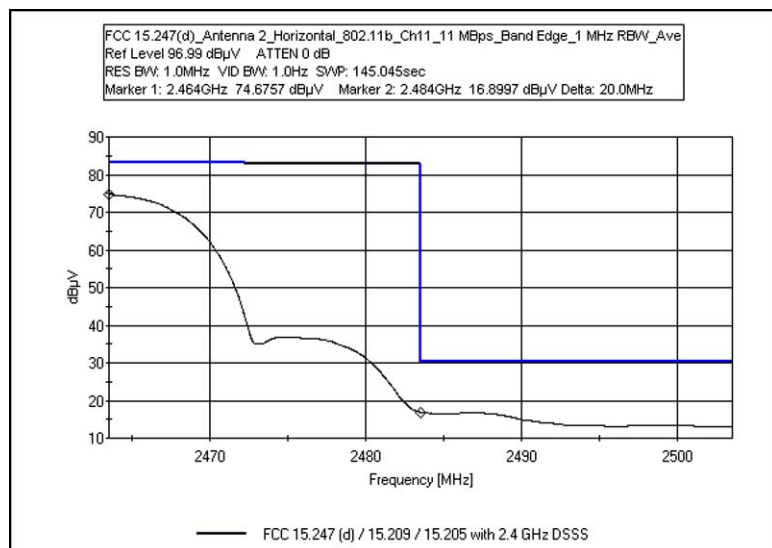
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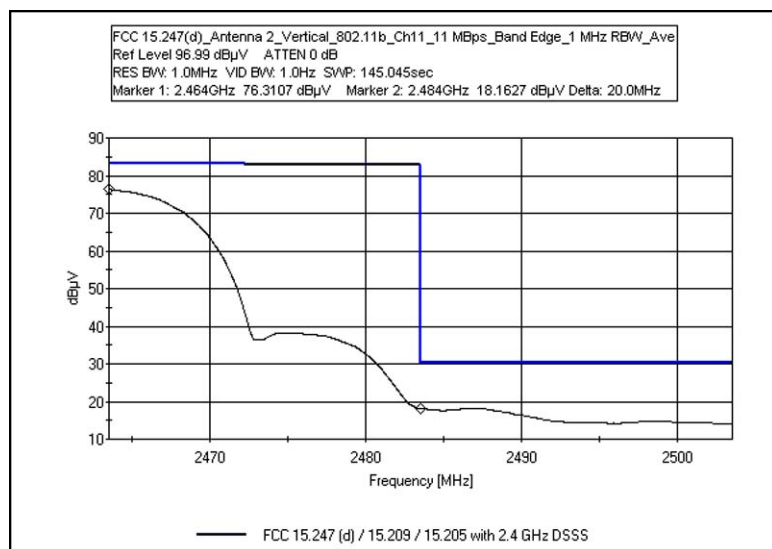
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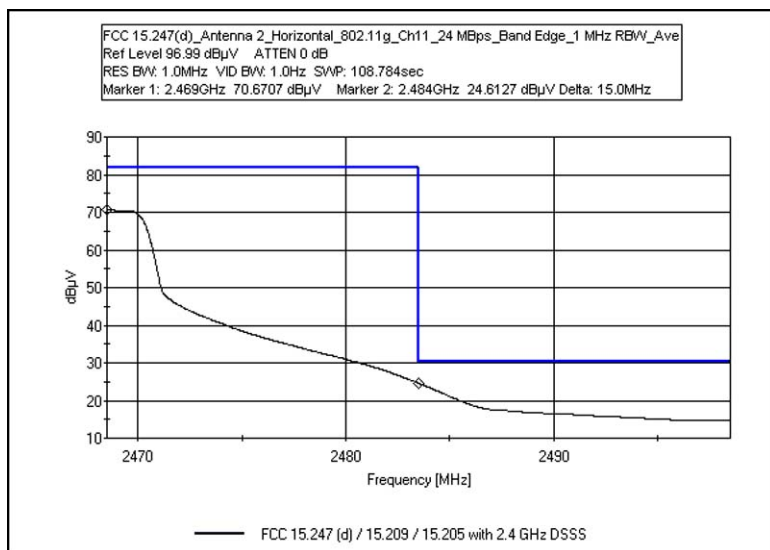
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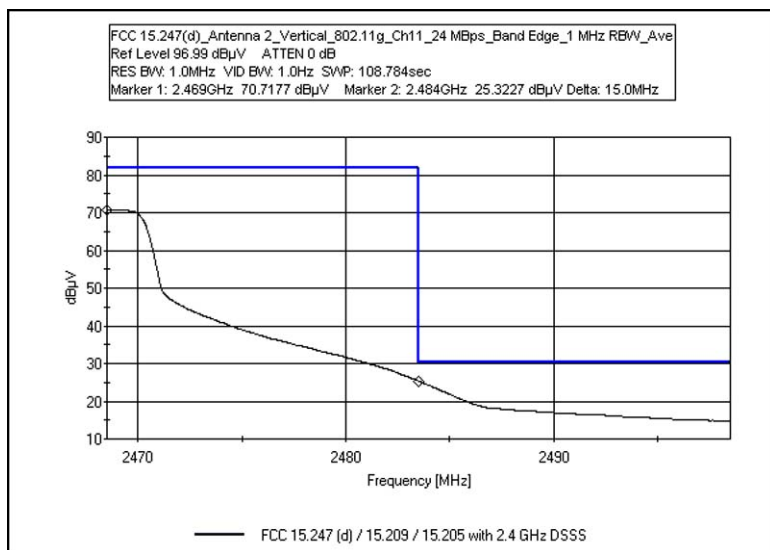
FCC 15.247(d) BANDEDGE - 802.11b ANTENNA 2 CHANNEL 11 11Mbps VERTICAL



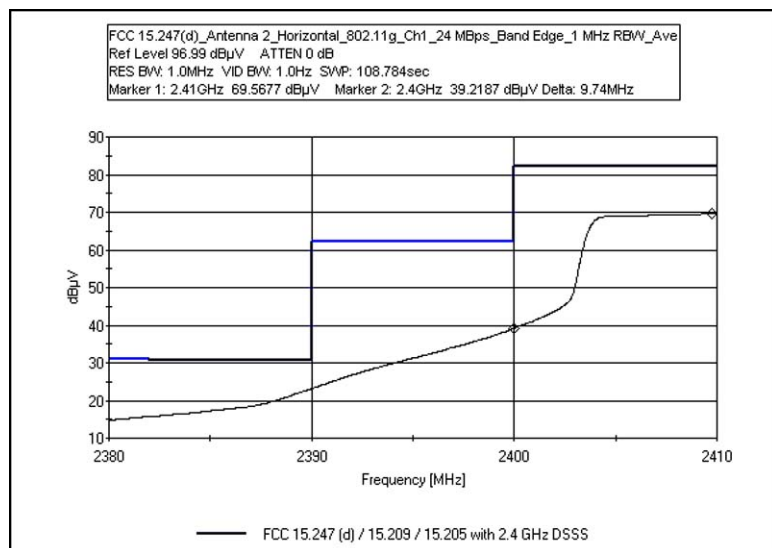
FCC 15.247(d) BANDEDGE - 802.11g ANTENNA 2 CHANNEL 11 24Mbps HORIZONTAL



FCC 15.247(d) BANDEDGE - 802.11g ANTENNA 2 CHANNEL 11 24Mbps VERTICAL



FCC 15.247(d) BANDEDGE - 802.11b ANTENNA 2 CHANNEL 1 24Mbps HORIZONTAL



FCC 15.247(d) BANDEDGE - 802.11g ANTENNA 2 CHANNEL 1 24Mbps VERTICAL

