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July 10, 2012

Meru Networks, Inc.
894 Ross Dr.
Sunnyvale, CA 94089

Dear Rajendran Chary,

Enclosed is the EMC Wireless test report for compliance testing of the Meru Networks, Inc., Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 15, Subpart B, ICES-003, Issue 4 February 2004 for a Class B Digital Device and FCC Part 15 Subpart C, RSS-210, Issue 8, Dec. 2010 for Intentional Radiators.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.

Jennifer Warnell
Documentation Department

Reference: (\Meru Networks, Inc.\EMCS34526A-FCC247 Rev. 2)

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Electromagnetic Compatibility Criteria Test Report

for the

**Meru Networks, Inc.
Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e**

Tested under
the FCC Certification Rules
contained in
Title 47 of the CFR, Parts 15 Subpart B & ICES-003
for Class B Digital Devices
&
15.247 Subpart C & RSS-210, Issue 8, Dec. 2010
for Intentional Radiators

MET Report: EMCS34526A-FCC247 Rev. 2

July 10, 2012

Prepared For:

**Meru Networks, Inc.
894 Ross Dr.
Sunnyvale, CA 94089**

Prepared By:
MET Laboratories, Inc.
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Santa Clara, CA 95054

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for Intentional Radiators



Anderson Soungpanya, Project Engineer
Electromagnetic Compatibility Lab



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Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Parts 15B, 15.247 and Industry Canada standards ICES-003, Issue 4 February 2004, RSS-210, Issue 8, Dec. 2010 under normal use and maintenance.



Shawn McMillen,
Wireless Manager, Electromagnetic Compatibility Lab



Meru Networks, Inc.

Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e

Electromagnetic Compatibility

Report Status

CFR Title 47, Part 15B, 15.247;

RSS-210, Issue 8, Dec. 2010 & ICES-003

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	June 5, 2012	Initial Issue.
1	June 6, 2012	Revised to update antenna model numbers.
2	July 10, 2012	Revised to reflect engineer corrections.

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List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
d	Measurement Distance
dB	Decibels
dBμA	Decibels above one microamp
dBμV	Decibels above one microvolt
dBμA/m	Decibels above one microamp per meter
dBμV/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
f	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kPa	kilopascal
kV	kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μH	microhenry
μ	microfarad
μs	microseconds
NEBS	Network Equipment-Building System
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane

I. Executive Summary

A. Purpose of Test

An EMC evaluation was performed to determine compliance of the Meru Networks, Inc. Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e, with the requirements of Part 15, §15.247. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e. Meru Networks, Inc. should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, §15.247, in accordance with Meru Networks, Inc., purchase order number 103991. All tests were conducted using measurement procedure ANSI C63.4-2003.

FCC Reference 47 CFR Part 15.247:2005	IC Reference RSS-210 Issue 8: 2010; RSS-GEN Issue 3: 2010	Description	Compliance
47 CFR Part 15.107 (a)	ICES-003 Issue 4 February 2004	Conducted Emission Limits for a Class B Digital Device	Compliant
47 CFR Part 15.109 (a)	ICES-003 Issue 4 February 2004	Radiated Emission Limits for a Class B Digital Device	Compliant
Title 47 of the CFR, Part 15 §15.203	N/A	Antenna Requirement	Compliant
Title 47 of the CFR, Part 15 §15.207(a)	RSS-GEN (7.2.4)	Conducted Emission Limits	Compliant
Title 47 of the CFR, Part 15 §15.247(a)(2)	RSS-Gen(4.6)	6dB Occupied Bandwidth	Compliant
		99% Occupied Bandwidth	Compliant
Title 47 of the CFR, Part 15 §15.247(b)	RSS-210(A8.4)	Peak Power Output	Compliant
Title 47 of the CFR, Part 15 §15.247(d); §15.209; §15.205	RSS-210(A8.5)	Radiated Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15 §15.247(d)	RSS-210(A8.5)	RF Conducted Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15 §15.247(d)	RSS-210(A8.5)	RF Conducted Band Edge	Compliant
Title 47 of the CFR, Part 15; §15.247(e)	RSS-210(A8.2)	Peak Power Spectral Density	Compliant
Title 47 of the CFR, Part 15 §15.247(i)	RSS-Gen(5.6)	Maximum Permissible Exposure (MPE)	Compliant
N/A	RSS-Gen(4.10)	Receiver Spurious Emissions	Compliant

Table 1. Executive Summary of EMC Part 15.247 Compliance Testing

II. Equipment Configuration

A. Overview

MET Laboratories, Inc. was contracted by Meru Networks, Inc. to perform testing on the Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e, under Meru Networks, Inc.'s purchase order number 103991.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Meru Networks, Inc., Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e		
Model(s) Covered:	Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e		
EUT Specifications:	Primary Power: 120 VAC, 60 Hz		
	FCC ID: RE7-AP332E IC: 6749A-AP332E		
	Type of Modulations:	DSSS, OFDM	
	Equipment Code:	DTS	
	Peak RF Output Power:	2.4 GHz – 25.17 dBm 5.8 GHz – 21.17 dBm	
	EUT Frequency Ranges:	2412 – 2462 MHz; 5745 – 5825 MHz	
Analysis:	The results obtained relate only to the item(s) tested.		
Environmental Test Conditions:	Temperature: 15-35° C		
	Relative Humidity: 30-60%		
	Barometric Pressure: 860-1060 mbar		
Evaluated by:	Anderson Soungpanya		
Report Date(s):	July 10, 2012		

Table 2. EUT Summary Table

B. References

CFR 47, Part 15, Subpart C	Federal Communication Commission, Code of Federal Regulations, Title 47, Part 15: General Rules and Regulations, Allocation, Assignment, and Use of Radio Frequencies
CFR 47, Part 15, Subpart B	Electromagnetic Compatibility: Criteria for Radio Frequency Devices
RSS-210, Issue 8, Dec. 2010	Low-power Licence-exempt Radiocommunications Devices (All Frequency Bands): Category I Equipment
RSS-GEN, Issue 3, Dec. 2010	General Requirements and Information for the Certification of Radio Apparatus
ICES-003, Issue 4 February 2004	Electromagnetic Compatibility: Criteria for Radio Frequency Devices
ANSI C63.4:2003	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI/NCSL Z540-1-1994	Calibration Laboratories and Measuring and Test Equipment - General Requirements
ANSI/ISO/IEC 17025:2000	General Requirements for the Competence of Testing and Calibration Laboratories
ANSI C63.10-2009	American National Standard for Testing Unlicensed Wireless Devices

Table 3. References

C. Test Site

Radio testing was performed at MET Laboratories, Inc., 3162 Belick St., Santa Clara, CA 95054. Digital testing was performed at MET Laboratories, Inc., 914 W. Patapsco Ave., Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 3 meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

D. Description of Test Sample

The Meru Networks, Inc. Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e, Equipment Under Test (EUT), is a wireless access point (WAP) that allows wireless devices to connect to a wired network using Wi-Fi, standard. The WAP usually connects to a router (via a wired network), and can relay data between the wireless devices (such as computers or printers) and wired devices on the network.

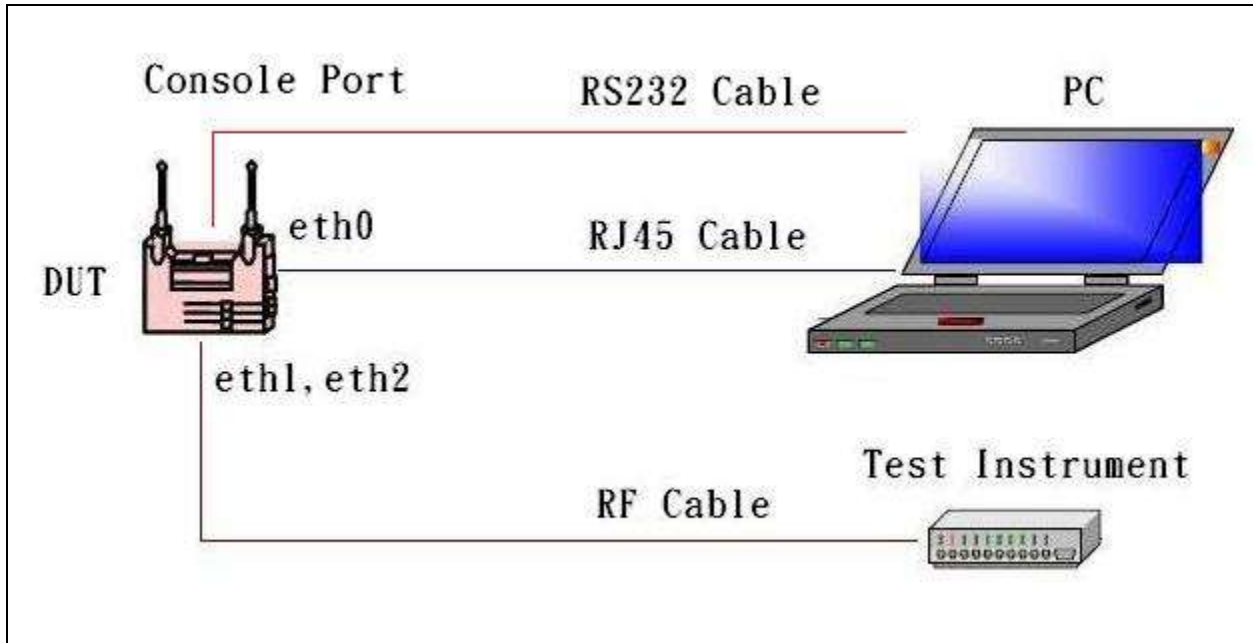


Figure 1. Block Diagram of Test Configuration

E. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

SN	Type	Model and Serial Number	Quantity
1	AP433e	SN: 112A332e0DEE93,112A332e0DEE8B, 112A332e0DEE8F	3
3	Antenna	ANT-ABGN-0304-W Omni directional rubber duct Dual-Band	36
4	Antenna	ANT-I3ABGN-0304-O Ceiling mount Omni Dual-Band 3 x 3 MIMO	1
5	Antenna	ANT-06ABGN-0606-O Outdoor Omi Dual-Band 3X3 MIMO	3
6	Antenna	ANT-06ABGN-0607-PT Wall mount Dual-Band 3 X 3 MIMO	3
10	PoE	PD-9001GR/AC	2
11	PoE	PS-9001G	2
12	Cable	Serial cable	2
13	Cable	Ethernet cable	4
--	--	AC-DC Adapter GS18A12-P1J	2

Table 4. Support Equipment

F. Ports and Cabling Information

Ref. ID	Port Name on EUT	Cable Description	Qty.	Length (m)	Shielded (Y/N)	Termination Point
--	12V DC	DC power supply	1	1	N	--
--	Console Port	Serial cable	1	1	N	--
--	G1 PoE	Ethernet and PoE port	1	1	1	--

Table 5. Ports and Cabling Information

G. Mode of Operation

During the normal operation the configuration is controlled by the Meru controller which sets the country code, ESSID, Operating frequency band and Channel etc.

H. Method of Monitoring EUT Operation

During the normal operation with controller Green or Blue LED indication on the Access point indicate the normal operation of the Access point. A Red LED indicates a failure of hardware or software settings.

I. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

J. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Meru Networks, Inc. upon completion of testing.



Meru Networks, Inc.

Dual Radio 802.11abgn 3x3 Access Point with External Antenna - AP322e

Electromagnetic Compatibility

Unintentional Radiators

CFR Title 47, Part 15B, 15.247;

RSS-210, Issue 8, Dec. 2010 & ICES-003

III. Electromagnetic Compatibility Criteria for Unintentional Radiators



Electromagnetic Compatibility Criteria

§ 15.107 Conducted Emissions Limits

Test Requirement(s): **15.107 (a)** Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in Table 6. Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

15.107 (b) For a Class A digital device that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in Table 6. Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals. The lower limit applies at the band edges.

Frequency range (MHz)	Class A Conducted Limits (dB μ V)		*Class B Conducted Limits (dB μ V)	
	Quasi-Peak	Avg.	Quasi-Peak	Average
* 0.15- 0.45	79	66	66 - 56	56 - 46
0.45 - 0.5	79	66	56	46
0.5 - 30	73	60	60	50
Note 1 — The lower limit shall apply at the transition frequencies.				
Note 2 — The limit decreases linearly with the logarithm if the frequency in the range 0.15 MHz to 0.5 MHz.				

Table 6. Conducted Limits for Radio Frequency Devices calculated from FCC Part 15 Subsections 15.107(a) (b)

Test Procedures: The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a shielded test chamber. The method of testing, test conditions, and test procedures of ANSI C63.4 were used. The EUT and its support equipment were powered through separate 50 Ω /50 μ H LISNs. An EMI receiver, connected to the measurement port of the LISN, scanned the frequency range from 150 kHz to 30 MHz in order to find the peak conducted emissions. All peak emissions within 6 dB of the limit were re-measured using a quasi-peak and/or average detector as appropriate.

Test Results: The EUT was compliant with the Class B requirement(s) of this section. Measured emissions were below applicable limits.

Test Engineer(s): Jeff Pratt

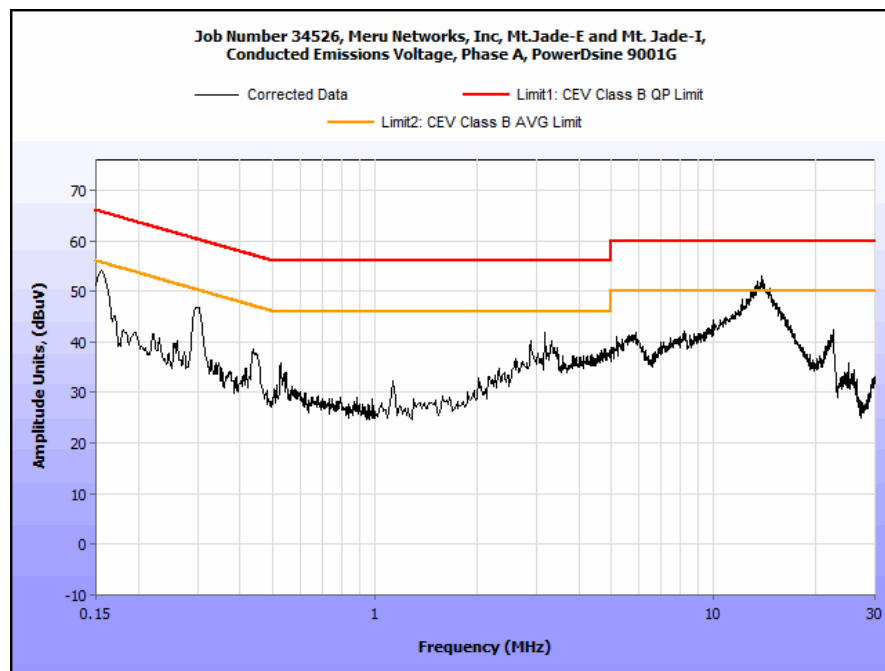
Test Date(s): 05/16/12



Conducted Emissions - Voltage, AC Power, Phase Line (120 VAC, 60 Hz), 9001G

Frequency (MHz)	Uncorrected Meter Reading (dBuV) QP	Cable Loss (dB)	Corrected Measurement (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBuV) Avg.	Cable Loss (dB)	Corrected Measurement (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
0.29	43.17	0.06	43.23	60.52	-17.29	33.3	0.06	33.36	50.52	-17.16
3.158	35.42	0.2	35.62	56	-20.38	26.94	0.2	27.14	46	-18.86
5.589	38.14	0.33	38.47	60	-21.53	32.12	0.33	32.45	50	-17.55
13.79	48.17	0.45	48.62	60	-11.38	31.94	0.45	32.39	50	-17.61
22.557	37.05	0.58	37.63	60	-22.37	31.09	0.58	31.67	50	-18.33
24.622	30.65	0.62	31.27	60	-28.73	25.17	0.62	25.79	50	-24.21

Table 7. Conducted Emissions - Voltage, AC Power, Phase Line (120 VAC, 60 Hz), 9001G



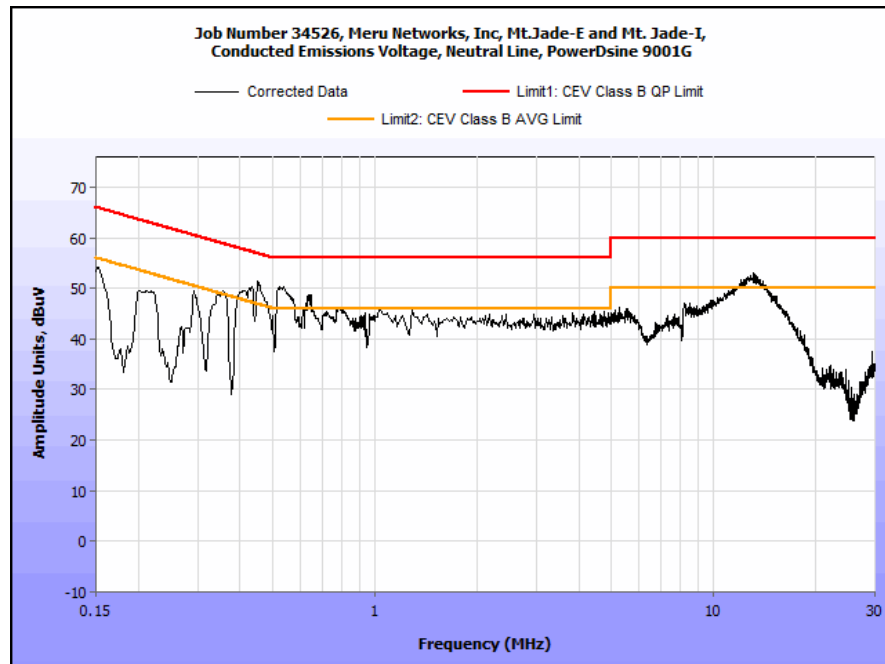
Plot 1. Conducted Emission, Phase Line Plot, 9001G



Conducted Emissions - Voltage, AC Power, Neutral Line (120 VAC, 60 Hz), 9001G

Frequency (MHz)	Uncorrected Meter Reading (dBuV) QP	Cable Loss (dB)	Corrected Measurement (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBuV) Avg.	Cable Loss (dB)	Corrected Measurement (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
0.158	39.38	0	39.38	65.57	-26.19	24.43	0	24.43	55.57	-31.14
0.294	38.69	0.06	38.75	60.41	-21.66	30.99	0.06	31.05	50.41	-19.36
2.875	35.76	0.19	35.95	56	-20.05	25.77	0.19	25.96	46	-20.04
5.783	37.87	0.32	38.19	60	-21.81	32.01	0.32	32.33	50	-17.67
13.592	48.45	0.44	48.89	60	-11.11	42.17	0.44	42.61	50	-7.39
22.299	37.09	0.58	37.67	60	-22.33	30.56	0.58	31.14	50	-18.86

Table 8. Conducted Emissions - Voltage, AC Power, Neutral Line (120 VAC, 60 Hz), 9001G



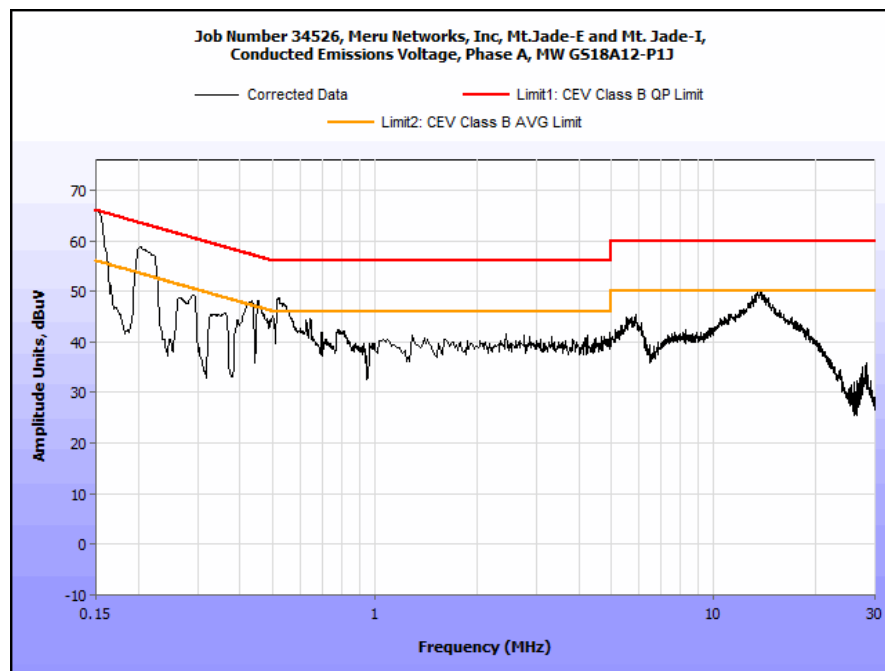
Plot 2. Conducted Emission, Neutral Line Plot, 9001G



Conducted Emissions - Voltage, AC Power, Phase Line (120 VAC, 60 Hz), GS18A12-P1J

Frequency (MHz)	Uncorrected Meter Reading (dBuV) QP	Cable Loss (dB)	Corrected Measurement (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBuV) Avg.	Cable Loss (dB)	Corrected Measurement (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
0.194	46.55	0.01	46.56	63.86	-17.3	40.32	0.01	40.33	53.86	-13.53
0.286	44.54	0.06	44.6	60.64	-16.04	32.36	0.06	32.42	50.64	-18.22
0.516	45.7	0.02	45.72	56	-10.28	31.14	0.02	31.16	46	-14.84
0.617	38.3	0.03	38.33	56	-17.67	26.17	0.03	26.2	46	-19.8
5.852	41.29	0.31	41.6	60	-18.4	35.74	0.31	36.05	50	-13.95
13.594	46.78	0.44	47.22	60	-12.78	40.7	0.44	41.14	50	-8.86

Table 9. Conducted Emissions - Voltage, AC Power, Phase Line (120 VAC, 60 Hz), GS18A12-P1J



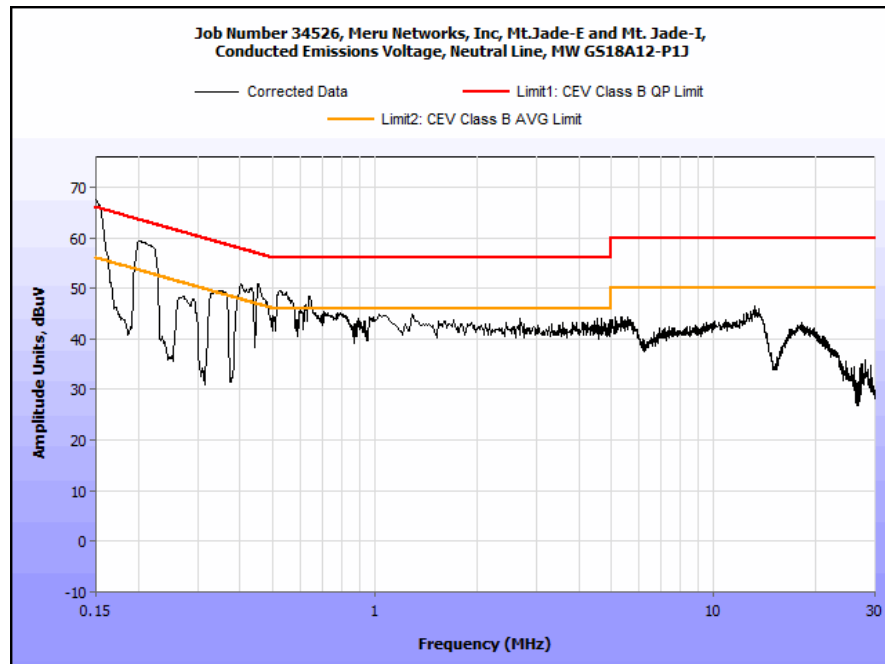
Plot 3. Conducted Emission, Phase Line Plot, GS18A12-P1J



Conducted Emissions - Voltage, AC Power, Neutral Line (120 VAC, 60 Hz), GS18A12-P1J

Frequency (MHz)	Uncorrected Meter Reading (dBuV) QP	Cable Loss (dB)	Corrected Measurement (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBuV) Avg.	Cable Loss (dB)	Corrected Measurement (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
0.194	57.91	0.01	57.92	63.86	-5.94	40.52	0.01	40.53	53.86	-13.33
0.432	46.72	0.03	46.75	57.21	-10.46	31.78	0.03	31.81	47.21	-15.4
0.451	48.94	0.03	48.97	56.86	-7.89	33.85	0.03	33.88	46.86	-12.98
0.531	46.32	0.03	46.35	56	-9.65	33.13	0.03	33.16	46	-12.84
5.475	40.4	0.34	40.74	60	-19.26	34.77	0.34	35.11	50	-14.89
13.546	42.82	0.44	43.26	60	-16.74	36.81	0.44	37.25	50	-12.75

Table 10. Conducted Emissions - Voltage, AC Power, Neutral Line (120 VAC, 60 Hz), GS18A12-P1J



Plot 4. Conducted Emission, Neutral Line Plot, GS18A12-P1J



Radiated Emission Limits

§ 15.109 Radiated Emissions Limits

Test Requirement(s): **15.109 (a)** Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the Class B limits expressed in Table 11.

15.109 (b) The field strength of radiated emissions from a Class A digital device, as determined at a distance of 10 meters, shall not exceed the Class A limits expressed in Table 11.

Frequency (MHz)	Field Strength (dB μ V/m)	
	§15.109 (b), Class A Limit (dB μ V) @ 10m	§15.109 (a), Class B Limit (dB μ V) @ 3m
30 - 88	39.00	40.00
88 - 216	43.50	43.50
216 - 960	46.40	46.00
Above 960	49.50	54.00

Table 11. Radiated Emissions Limits calculated from FCC Part 15, §15.109 (a) (b)

Test Procedures: The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. The method of testing and test conditions of ANSI C63.4 were used. An antenna was located 3 m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. Unless otherwise specified, measurements were made using a quasi-peak detector with a 120 kHz bandwidth.

Test Results: The EUT was compliant with the Class B requirement(s) of this section. Measured emissions were below applicable limits.

Test Engineer(s): Jeff Pratt

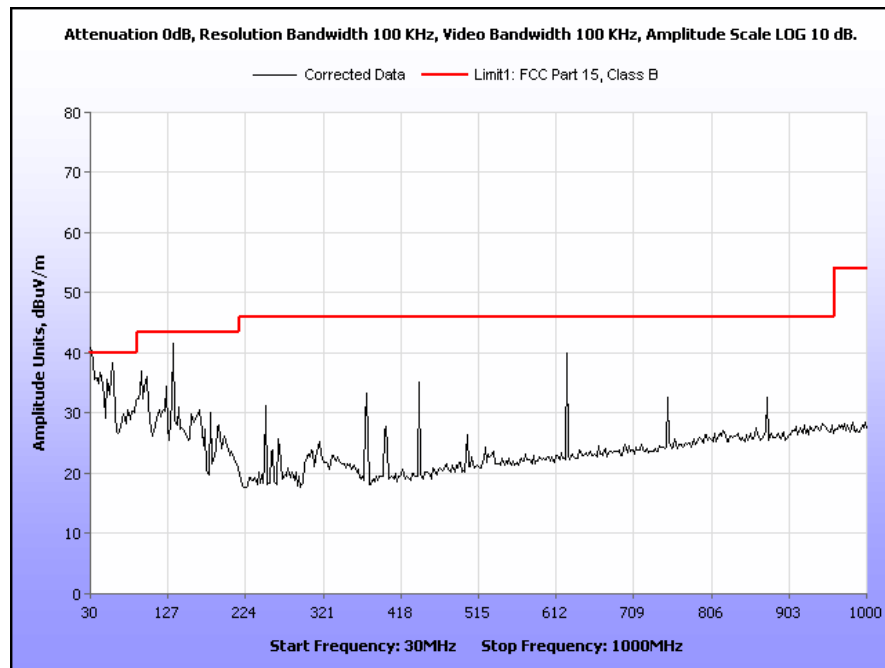
Test Date(s): 05/15/12



Radiated Emissions Limits Test Results, Class B

Frequency (MHz)	EUT Azimuth (Degrees)	Antenna Polarity (H/V)	Antenna HEIGHT (m)	Uncorrected Amplitude (dBuV)	Antenna Correction Factor (dB) (+)	Cable Loss (dB) (+)	Distance Correction Factor (dB) (-)	Corrected Amplitude (dBuV/m)	Limit (dBuV/m)	Margin (dB)
42.823609	32	H	2.23	6.02	12.24	0.43	0.00	18.69	40.00	-21.31
42.823609	362	V	1.02	19.90	12.24	0.43	0.00	32.57	40.00	-7.43
56.742485	346	H	1.01	8.46	7.50	0.52	0.00	16.48	40.00	-23.52
56.742485	3	V	1.01	24.80	7.50	0.52	0.00	32.82	40.00	-7.18
91.289579	319	H	2.24	14.81	8.16	0.74	0.00	23.71	43.50	-19.79
91.289579	115	V	1.20	22.32	8.16	0.74	0.00	31.22	43.50	-12.28
132.55411	309	H	1.50	14.67	13.66	0.92	0.00	29.25	43.50	-14.25
132.55411	43	V	1.01	21.85	13.66	0.92	0.00	36.43	43.50	-7.07
374.99352	1	H	1.01	20.35	15.60	1.54	0.00	37.49	46.00	-8.51
374.99352	324	V	1.00	17.12	15.60	1.54	0.00	34.26	46.00	-11.74
625.00754	226	H	1.01	16.39	19.80	2.09	0.00	38.28	46.00	-7.72
625.00754	83	V	1.01	20.21	19.80	2.09	0.00	42.10	46.00	-3.90

Table 12. Radiated Emissions Limits, Test Results, 30 MHz – 1 GHz, FCC Limits



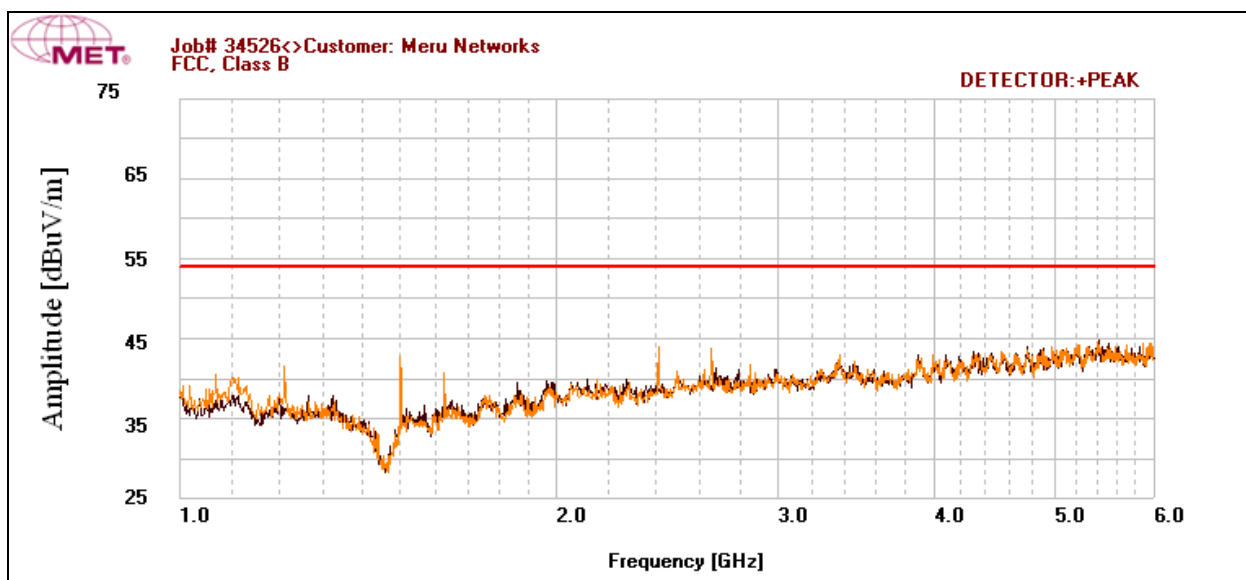
Plot 5. Radiated Emissions, 30 MHz - 1 GHz, FCC Limits



Radiated Emissions Limits Test Results, Class B

Frequency (MHz)	Antenna Polarity	EUT Azimuth (Degrees)	Antenna Height (cm)	Uncorrected Amplitude (dBuV)	ACF (dB/m)	Pre Amp Gain (dB)	CBL (dB)	DCF (dB)	Corrected Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
1500	H	10	100	69.11	25.723	54.06	0	0	40.773	54	-13.227
1500	V	280	100	71.82	25.723	54.06	0	0	43.483	54	-10.517
2412	V	315	100	67.31	28.491	55.379	0	0	40.422	54	-13.578

Table 13. Radiated Emissions Limits, Test Results, 1 GHz – 6 GHz, FCC Limits



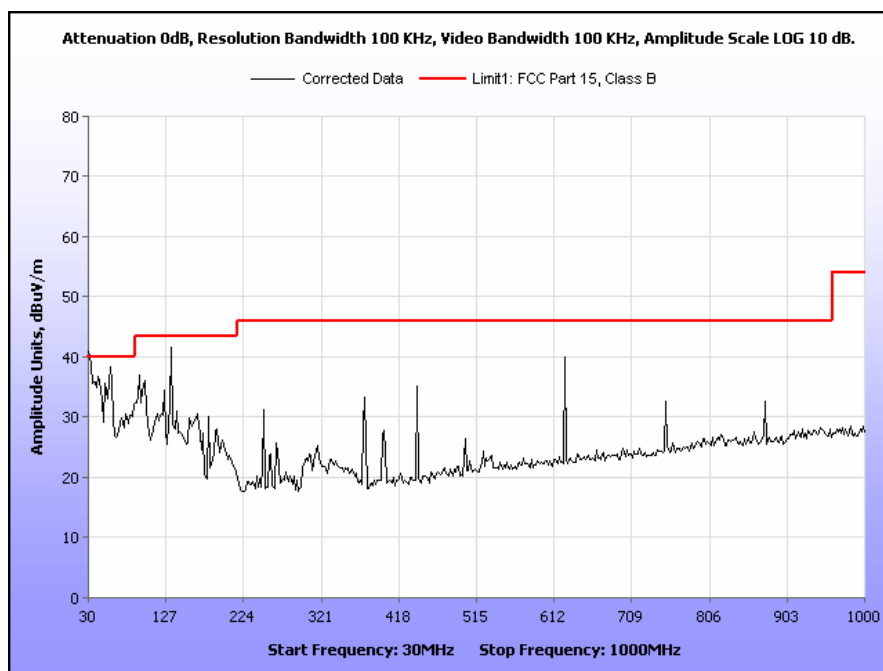
Plot 6. Radiated Emissions, 1 GHz – 6 GHz, FCC Limits



Radiated Emissions Limits Test Results, Class B

Frequency (MHz)	EUT Azimuth (Degrees)	Antenna Polarity (H/V)	Antenna HEIGHT (m)	Uncorrected Amplitude (dBuV)	Antenna Correction Factor (dB) (+)	Cable Loss (dB) (+)	Distance Correction Factor (dB) (-)	Corrected Amplitude (dBuV/m)	Limit (dBuV/m)	Margin (dB)
42.823609	32	H	2.23	6.02	12.24	0.43	10.46	8.23	30.00	-21.77
42.823609	362	V	1.02	19.90	12.24	0.43	10.46	22.11	30.00	-7.89
56.742485	346	H	1.01	8.46	7.50	0.52	10.46	6.02	30.00	-23.98
56.742485	3	V	1.01	24.80	7.50	0.52	10.46	22.36	30.00	-7.64
91.289579	319	H	2.24	14.81	8.16	0.74	10.46	13.25	30.00	-16.75
91.289579	115	V	1.20	22.32	8.16	0.74	10.46	20.76	30.00	-9.24
132.55411	309	H	1.50	14.67	13.66	0.92	10.46	18.79	30.00	-11.21
132.55411	43	V	1.01	21.85	13.66	0.92	10.46	25.97	30.00	-4.03
374.99352	1	H	1.01	20.35	15.60	1.54	10.46	27.03	37.00	-9.97
374.99352	324	V	1.00	17.12	15.60	1.54	10.46	23.80	37.00	-13.20
625.00754	226	H	1.01	16.39	19.80	2.09	10.46	27.82	37.00	-9.18
625.00754	83	V	1.01	20.21	19.80	2.09	10.46	31.64	37.00	-5.36

Table 14. Radiated Emissions Limits, Test Results, ICES-003 Limits



Plot 7. Radiated Emissions, ICES-003 Limits

IV. Electromagnetic Compatibility Criteria for Intentional Radiators

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.203 Antenna Requirement

Test Requirement: § 15.203: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

- a.) Antenna must be permanently attached to the unit.
- b.) Antenna must use a unique type of connector to attach to the EUT.
- c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

Results: The EUT as tested is compliant the criteria of §15.203. Units are professionally installed.

Test Engineer(s): Anderson Soungpanya

Test Date(s): 04/27/12

Gain (dBi)		Antenna Type	Antenna Description	Manufacturer	Model Number
2.4 GHz	5 GHz				
2	2	Dipole	Omni Directional Rubber Duct Dual-Band	SOCAA	ANT-ABGN-0304-W
3	4	Dipole	Omni Directional Ceiling Mount Dual-Band 3 x 3 MIMO	Terrawave Solutions	ANT-I3ABGN-0304-O
6	6	Dipole	Omni Directional Cane Dual-Band 3 x 3 MIMO	Terrawave Solutions	ANT-06ABGN-0606-O
6	7	Patch	Directional Wall Mount Dual-Band 3 x 3 MIMO	Terrawave Solutions	ANT-06ABGN-0607-PT

Table 15. Antenna List

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.207(a) Conducted Emissions Limits

Test Requirement(s): § 15.207 (a): For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency range (MHz)	§ 15.207(a), Conducted Limit (dB μ V)	
	Quasi-Peak	Average
* 0.15- 0.45	66 - 56	56 - 46
0.45 - 0.5	56	46
0.5 - 30	60	50

Table 16. Conducted Limits for Intentional Radiators from FCC Part 15 § 15.207(a)

Test Procedure: The EUT was placed on a 0.8 m-high wooden table inside a screen room. The EUT was situated such that the back of the EUT was 0.4 m from one wall of the vertical ground plane, and the remaining sides of the EUT were no closer than 0.8 m from any other conductive surface. The EUT was powered from a 50 Ω /50 μ H Line Impedance Stabilization Network (LISN). The EMC receiver scanned the frequency range from 150 kHz to 30 MHz. Conducted Emissions measurements were made in accordance with *ANSI C63.4-2003 "Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz"*. The measurements were performed over the frequency range of 0.15 MHz to 30 MHz using a 50 Ω /50 μ H LISN as the input transducer to an EMC/field intensity meter. For the purpose of this testing, the transmitter was turned on. Scans were performed with the transmitter on.

Test Results: The EUT was compliant with this requirement. Measured emissions were below applicable limits.

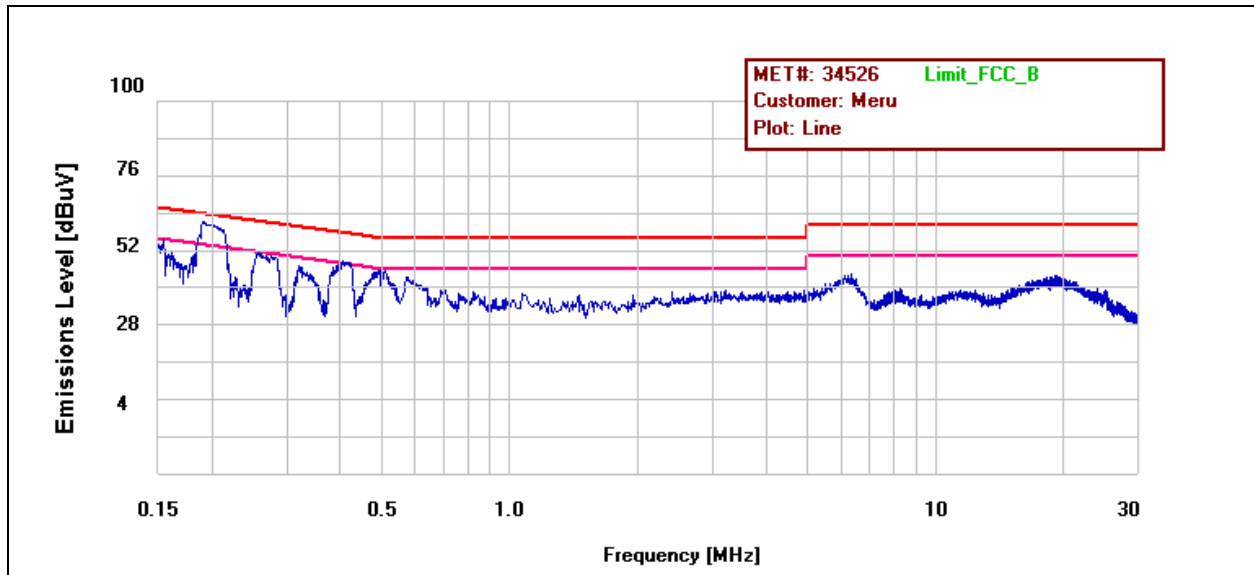
Test Engineer(s): Anderson Soungpanya

Test Date(s): 05/07/12

15.207(a) Conducted Emissions Test Results, 2.4 GHz

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
Line	.190	60.23	64.042	-3.812	Pass	39.01	54.042	-15.032	Pass
Line	.390	43.52	58.085	-14.565	Pass	30.34	48.085	-17.745	Pass
Line	.498	39.42	56.034	-16.614	Pass	28.45	46.034	-17.584	Pass

Table 17. Conducted Emissions, 15.207(a), Phase Line, Test Results, 2.4 GHz

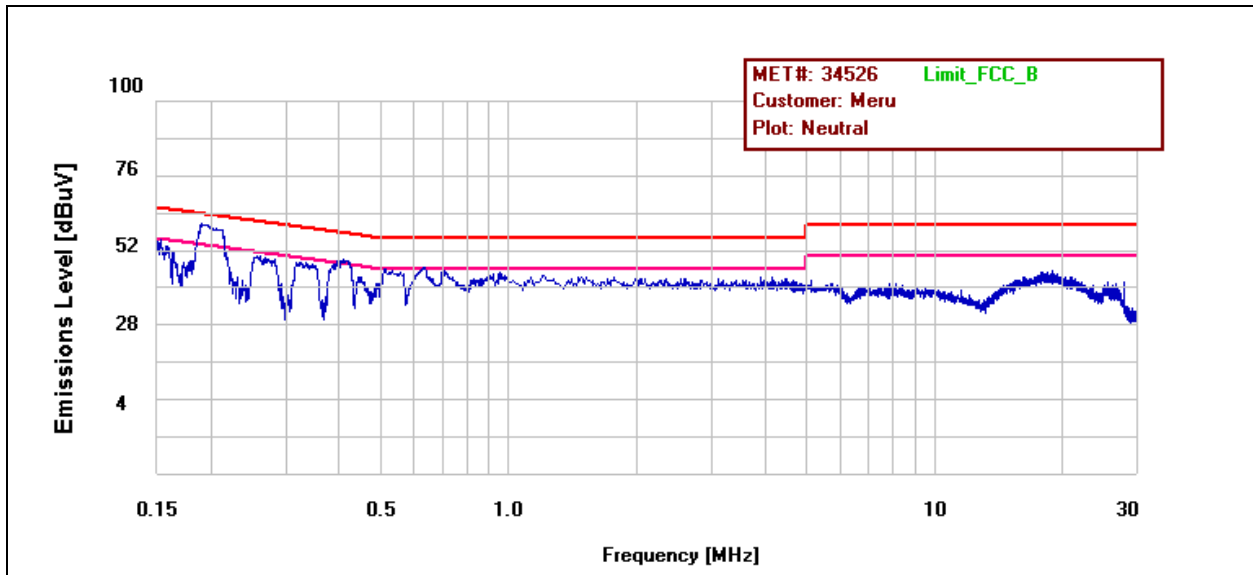


Plot 8. Conducted Emissions, 15.207(a), Phase Line, 2.4 GHz

15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
Neutral	.191	57.21	63.998	-6.788	Pass	37.57	53.998	-16.428	Pass
Neutral	.391	40.84	58.064	-17.224	Pass	29.58	48.064	-18.484	Pass
Neutral	.623	37.38	56	-18.62	Pass	29.01	46	-16.99	Pass

Table 18. Conducted Emissions, 15.207(a), Neutral Line, Test Results, 2.4 GHz



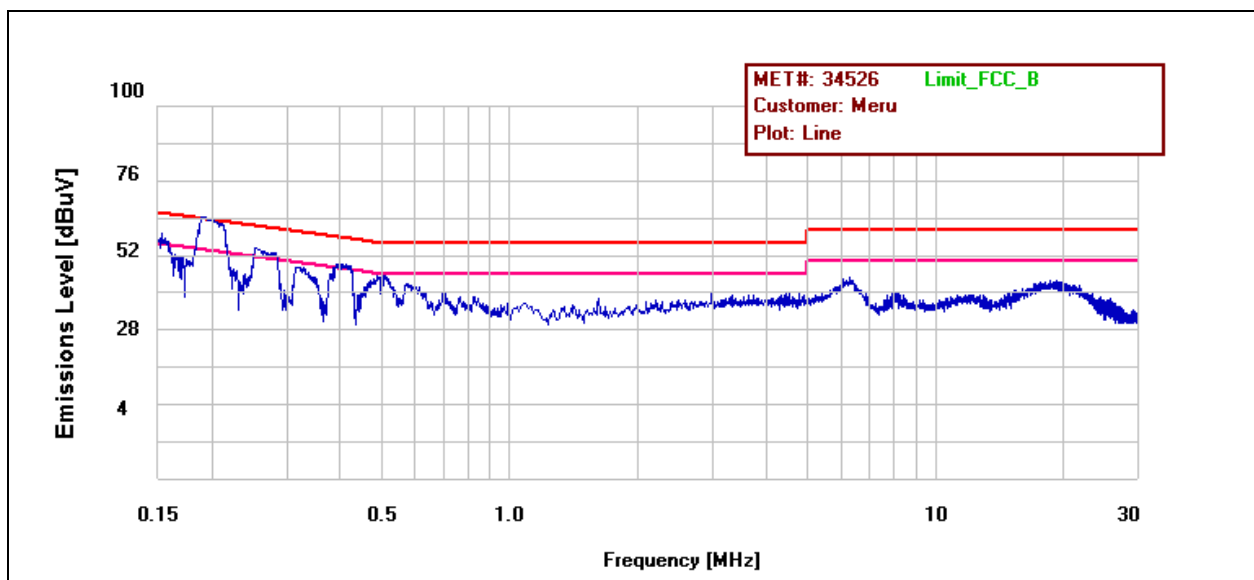
Plot 9. Conducted Emissions, 15.207(a), Neutral Line, 2.4 GHz



15.207(a) Conducted Emissions Test Results, 5 GHz

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
Line	.190	60.18	64.042	-3.862	Pass	38.57	54.042	-15.472	Pass
Line	.257	49.38	61.54	-12.16	Pass	32.26	51.54	-19.28	Pass
Line	.389	43.69	58.107	-14.417	Pass	29.857	48.107	-18.25	Pass
Line	.485	41.37	56.26	-14.89	Pass	28.107	46.26	-18.153	Pass

Table 19. Conducted Emissions, 15.207(a), Phase Line, Test Results, 5 GHz

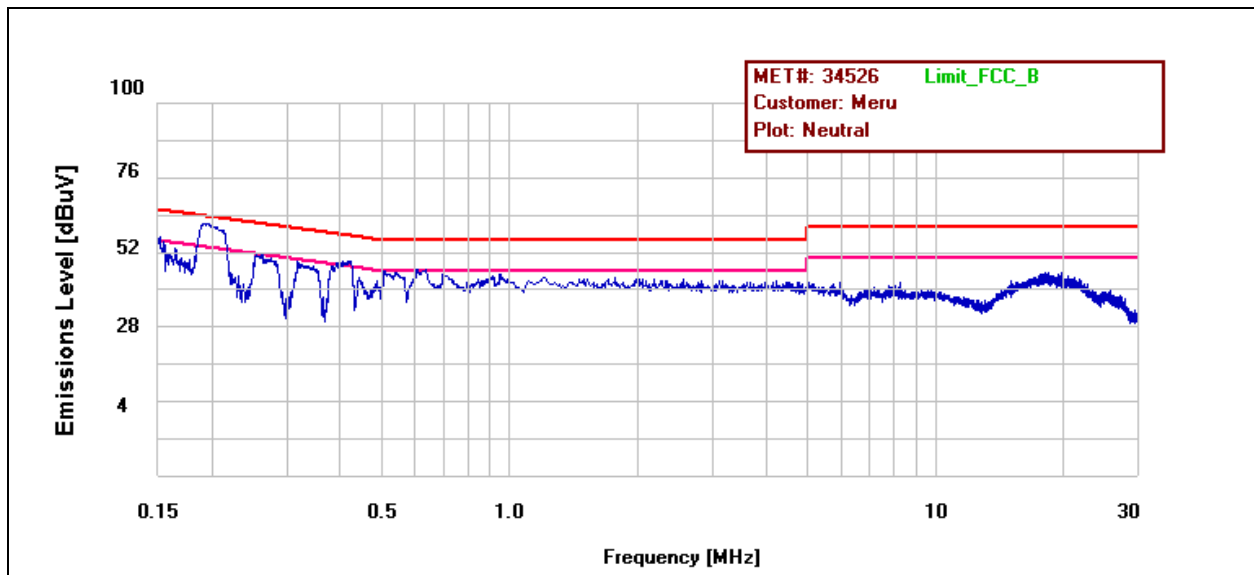


Plot 10. Conducted Emissions, 15.207(a), Phase Line, 5 GHz

15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
Neutral	.193	57.31	63.912	-6.602	Pass	38.43	53.912	-15.482	Pass
Neutral	.412	43.09	57.631	-14.541	Pass	30.54	47.631	-17.091	Pass
Neutral	.519	41.95	56	-14.05	Pass	28.42	46	-17.58	Pass

Table 20. Conducted Emissions, 15.207(a), Neutral Line, Test Results, 5 GHz



Plot 11. Conducted Emissions, 15.207(a), Neutral Line, 5 GHz

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(a)(2) 6 dB and 99% Bandwidth

Test Requirements: § 15.247(a)(2): Operation under the provisions of this section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

For systems using digital modulation techniques, the EUT may operate in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

Test Procedure: The transmitter was on and transmitting at the highest output power. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using a RBW approximately 1% of the total emission bandwidth, VBW > RBW. The 6 dB Bandwidth was measured and recorded. The measurements were performed on the low, mid and high channels.

Test Results The EUT was compliant with § 15.247 (a)(2).

The 6 dB and 99% Bandwidth was determined from the plots on the following pages.

Test Engineer(s): Lionel Gabrillo & Anderson Soungpanya

Test Date(s): 04/20/12 & 04/24/12



Figure 2. Block Diagram, Occupied Bandwidth Test Setup

Occupied Bandwidth Test Results, 2.4 GHz

Occupied Bandwidth			
	Carrier Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)
802.11b	Low	2412	8.290
	Mid	2437	8.325
	High	2462	7.506
802.11g	Low	2412	16.377
	Mid	2437	16.401
	High	2462	16.551
802.11n 20 MHz Port 1	Low	2412	16.386
	Mid	2437	17.620
	High	2462	17.665
802.11n 20 MHz Port 2	Low	2412	17.685
	Mid	2437	17.598
	High	2462	17.406
802.11n 20 MHz Port 3	Low	2412	17.688
	Mid	2437	17.735
	High	2462	17.679
802.11n 40 MHz Port 1	Low	2422	36.086
	Mid	2437	36.410
	High	2452	36.181
802.11n 40 MHz Port 2	Low	2422	36.271
	Mid	2437	36.389
	High	2452	35.812
802.11n 40 MHz Port 3	Low	2422	36.039
	Mid	2437	36.313
	High	2452	35.947

Table 21. 6 dB Occupied Bandwidth, Test Results, 2.4 GHz

Occupied Bandwidth			
	Carrier Channel	Frequency (MHz)	Measured 99% Bandwidth (MHz)
802.11b	Low	2412	10.0718
	Mid	2437	10.0200
	High	2462	10.0784
802.11g	Low	2412	16.5519
	Mid	2437	16.5327
	High	2462	16.5091
802.11n 20 MHz Port 1	Low	2412	17.3477
	Mid	2437	17.8095
	High	2462	17.6473
802.11n 20 MHz Port 2	Low	2412	17.8002
	Mid	2437	17.7673
	High	2462	17.8033
802.11n 20 MHz Port 3	Low	2412	17.7930
	Mid	2437	17.7430
	High	2462	17.7063
802.11n 40 MHz Port 1	Low	2422	36.624
	Mid	2437	36.7935
	High	2452	36.5498
802.11n 40 MHz Port 2	Low	2422	36.5271
	Mid	2437	35.9683
	High	2452	36.3784
802.11n 40 MHz Port 3	Low	2422	36.1227
	Mid	2437	36.6028
	High	2452	36.5593

Table 22. 99% Occupied Bandwidth, Test Results, 2.4 GHz

Occupied Bandwidth Test Results, 5 GHz

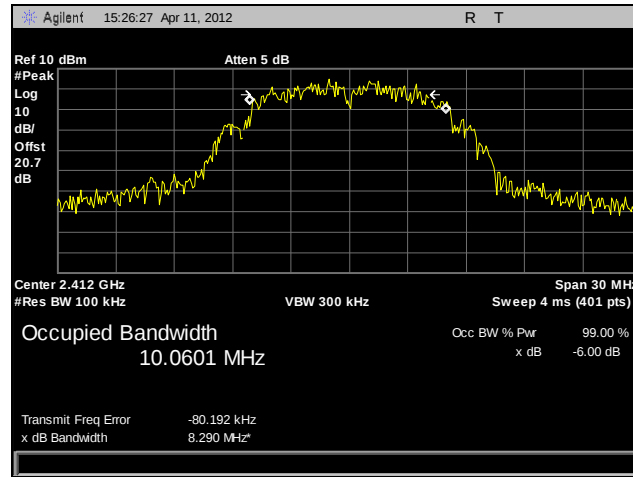
Occupied Bandwidth			
	Carrier Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)
802.11a	Low	5745	16.437
	Mid	5785	16.481
	High	5825	16.508
802.11n 20 MHz Port 1	Low	5745	17.552
	Mid	5785	17.702
	High	5825	17.605
802.11n 20 MHz Port 2	Low	5745	17.633
	Mid	5785	17.595
	High	5825	17.398
802.11n 20 MHz Port 3	Low	5745	17.488
	Mid	5785	17.651
	High	5825	17.661
802.11n 40 MHz Port 1	Low	5755	36.041
	High	5795	36.353
802.11n 40 MHz Port 2	Low	5755	36.319
	High	5795	36.344
802.11n 40 MHz Port 3	Low	5755	36.322
	High	5795	35.923

Table 23. 6 dB Occupied Bandwidth, Test Results, 5 GHz

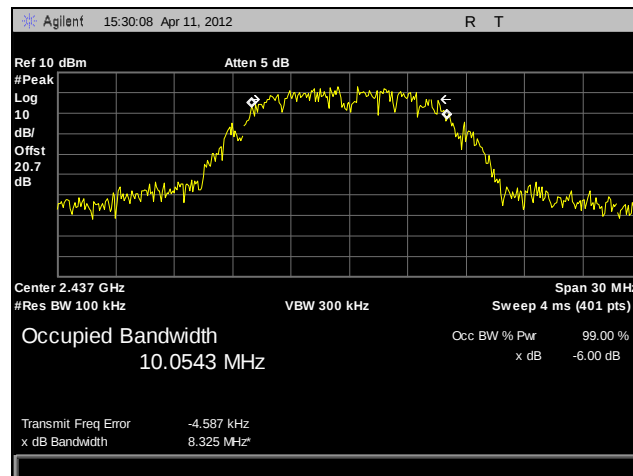
Occupied Bandwidth			
	Carrier Channel	Frequency (MHz)	Measured 99% Bandwidth (MHz)
802.11a	Low	5745	16.6286
	Mid	5785	16.6218
	High	5825	16.6519
802.11n 20 MHz Port 1	Low	5745	17.7334
	Mid	5785	17.7410
	High	5825	17.7622
802.11n 20 MHz Port 2	Low	5745	17.8069
	Mid	5785	17.7242
	High	5825	17.8827
802.11n 20 MHz Port 3	Low	5745	17.7815
	Mid	5785	17.7707
	High	5825	17.7418
802.11n 40 MHz Port 1	Low	5755	36.2602
	High	5795	36.3667
802.11n 40 MHz Port 2	Low	5755	36.1383
	High	5795	36.3789
802.11n 40 MHz Port 3	Low	5755	36.3719
	High	5795	36.3016

Table 24. 99% Occupied Bandwidth, Test Results, 5 GHz

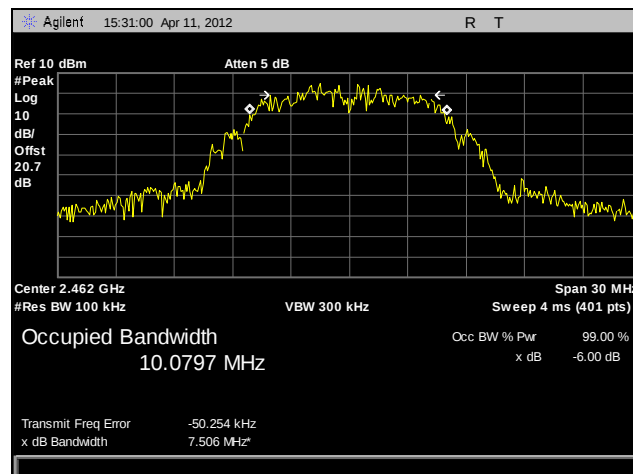
6 dB Occupied Bandwidth Test Results, 802.11b, 2.4 GHz



Plot 12. 6 dB Occupied Bandwidth, Low Channel, 802.11b, 2.4 GHz

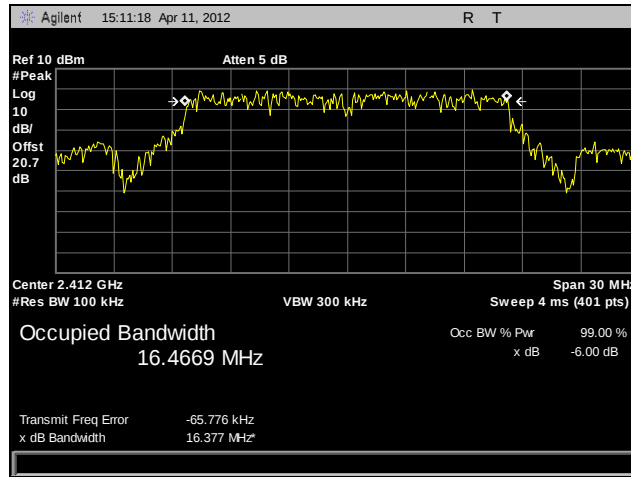


Plot 13. 6 dB Occupied Bandwidth, Mid Channel, 802.11b, 2.4 GHz

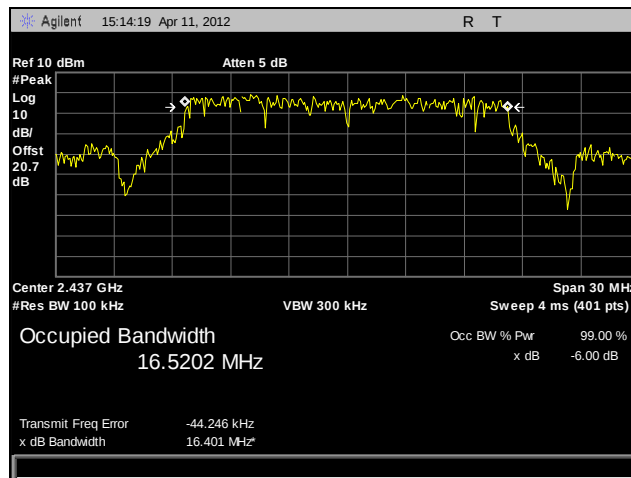


Plot 14. 6 dB Occupied Bandwidth, High Channel, 802.11b, 2.4 GHz

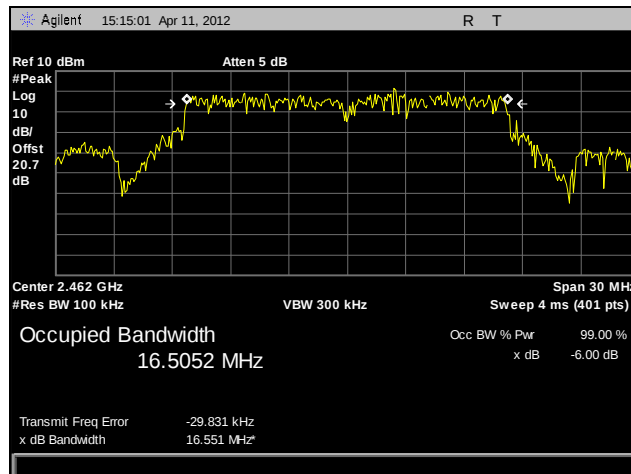
6 dB Occupied Bandwidth Test Results, 802.11g, 2.4 GHz



Plot 15. 6 dB Occupied Bandwidth, Low Channel, 802.11g, 2.4 GHz

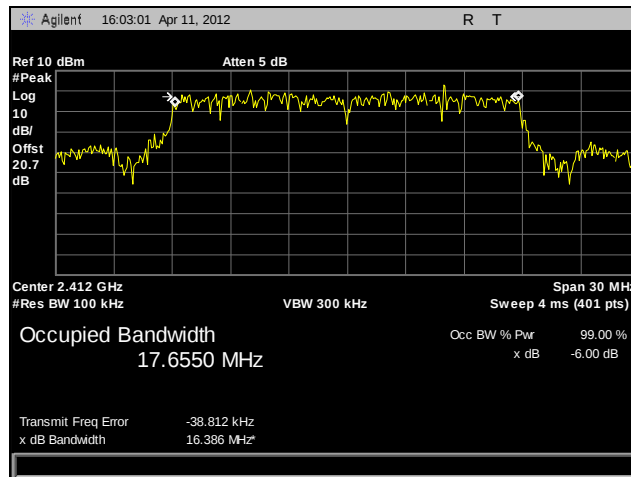


Plot 16. 6 dB Occupied Bandwidth, Mid Channel, 802.11g, 2.4 GHz

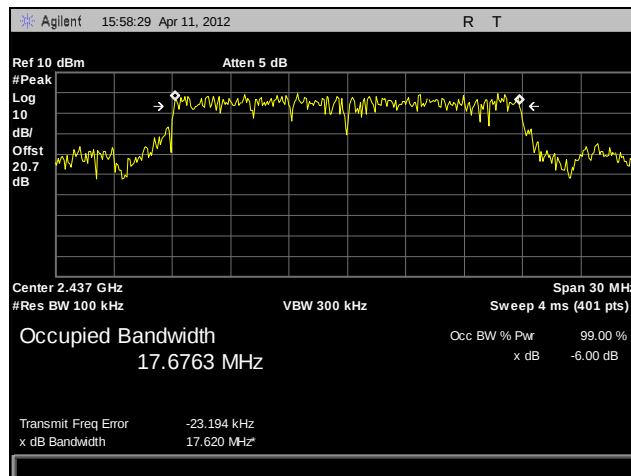


Plot 17. 6 dB Occupied Bandwidth, High Channel, 802.11g, 2.4 GHz

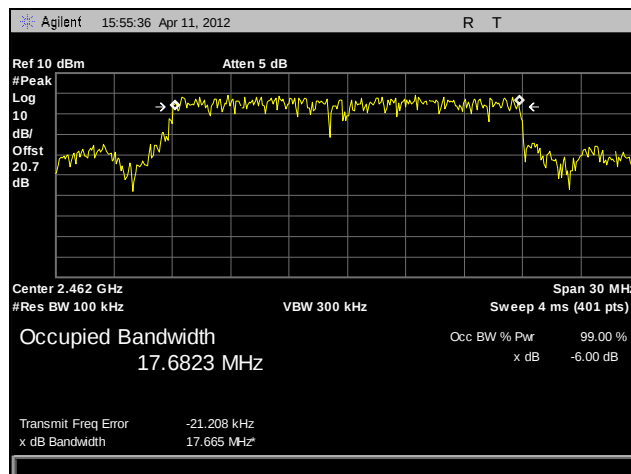
6 dB Occupied Bandwidth Test Results, 802.11n HT20, Port 1, 2.4 GHz



Plot 18. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT20, Port 1, 2.4 GHz

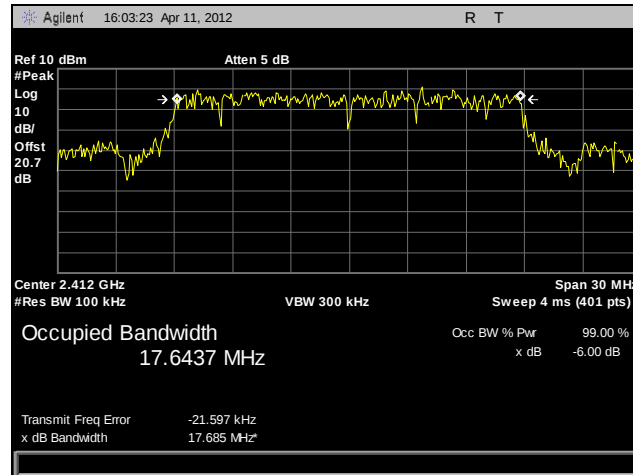


Plot 19. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 1, 2.4 GHz

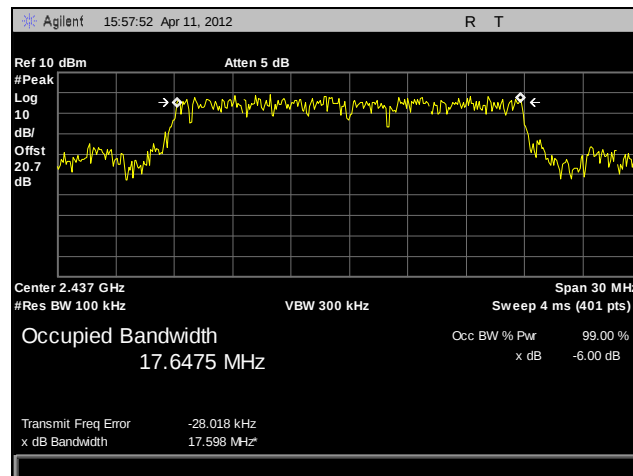


Plot 20. 6 dB Occupied Bandwidth, High Channel, 802.11n HT20, Port 1, 2.4 GHz

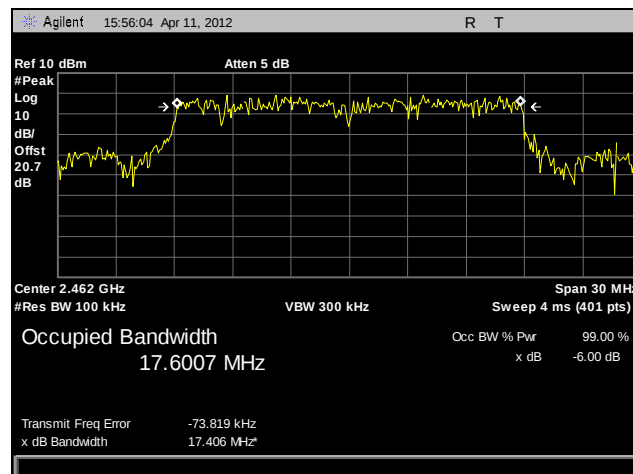
6 dB Occupied Bandwidth Test Results, 802.11n HT20, Port 2, 2.4 GHz



Plot 21. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT20, Port 2, 2.4 GHz

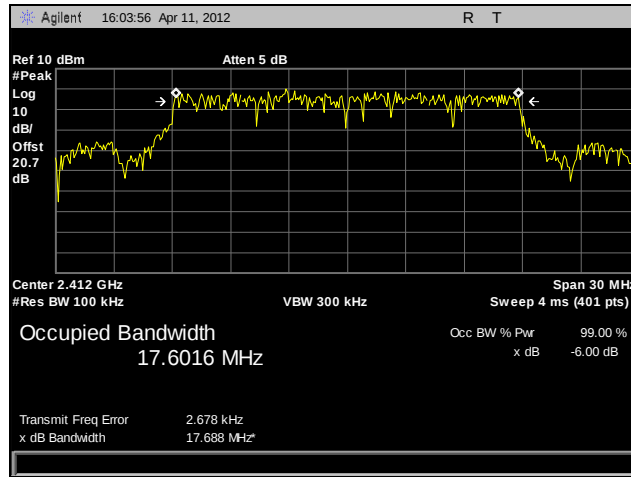


Plot 22. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 2, 2.4 GHz

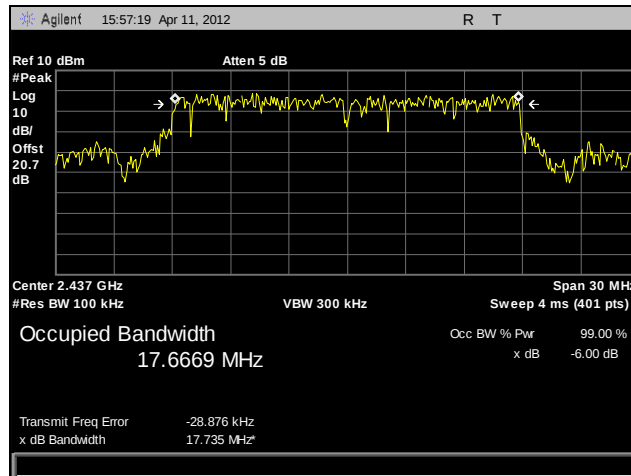


Plot 23. 6 dB Occupied Bandwidth, High Channel, 802.11n HT20, Port 2, 2.4 GHz

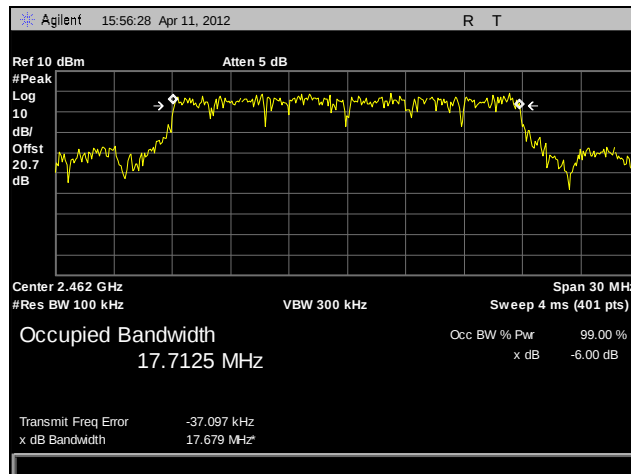
6 dB Occupied Bandwidth Test Results, 802.11n HT20, Port 3, 2.4 GHz



Plot 24. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT20, Port 3, 2.4 GHz

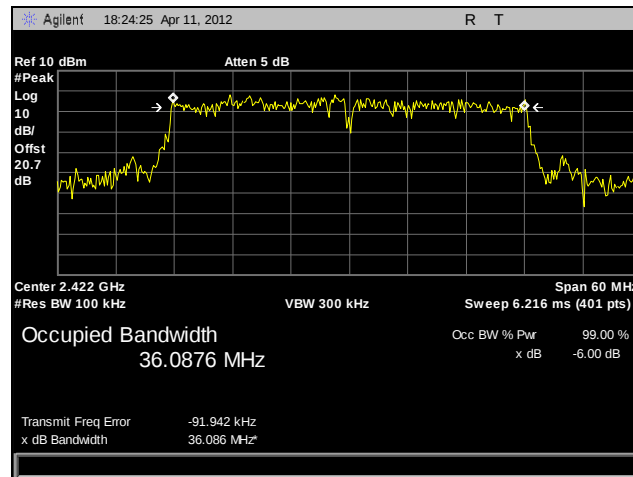


Plot 25. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 3, 2.4 GHz

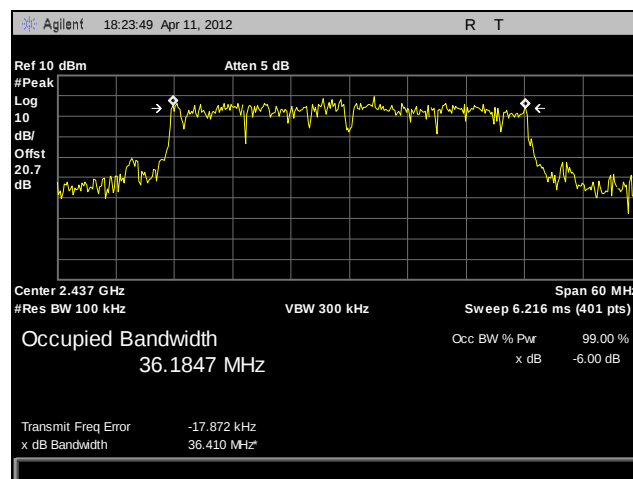


Plot 26. 6 dB Occupied Bandwidth, High Channel, 802.11n HT20, Port 3, 2.4 GHz

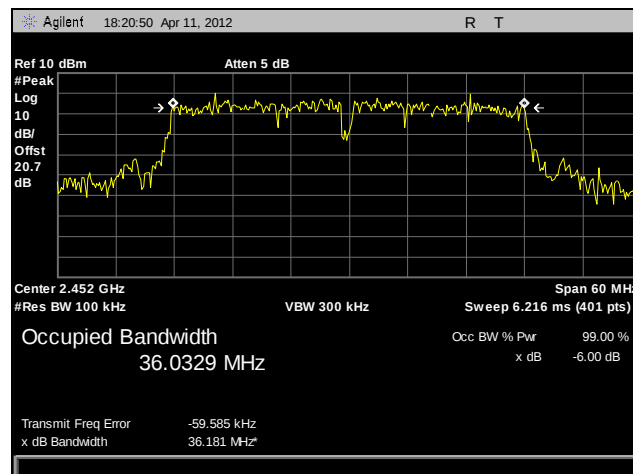
6 dB Occupied Bandwidth Test Results, 802.11n HT40, Port 1, 2.4 GHz



Plot 27. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT40, Port 1, 2.4 GHz

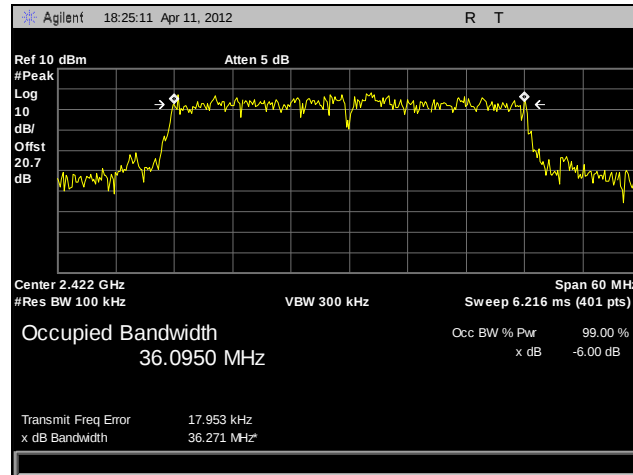


Plot 28. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT40, Port 1, 2.4 GHz

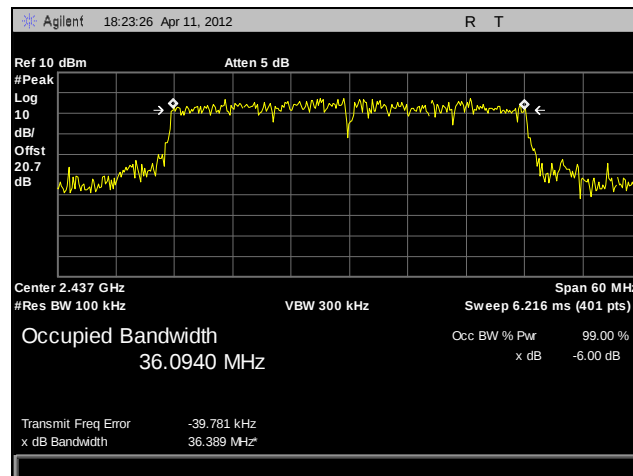


Plot 29. 6 dB Occupied Bandwidth, High Channel, 802.11n HT40, Port 1, 2.4 GHz

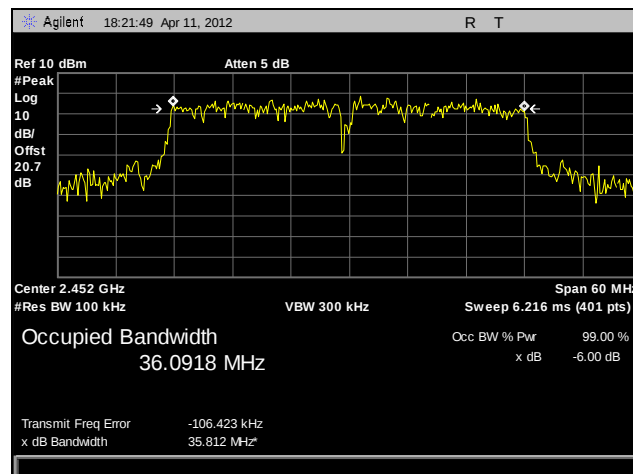
6 dB Occupied Bandwidth Test Results, 802.11n HT40, Port 2, 2.4 GHz



Plot 30. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT40, Port 2, 2.4 GHz

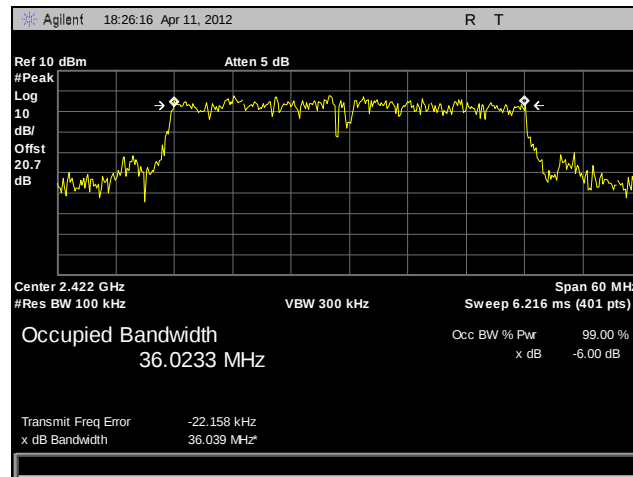


Plot 31. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT40, Port 2, 2.4 GHz

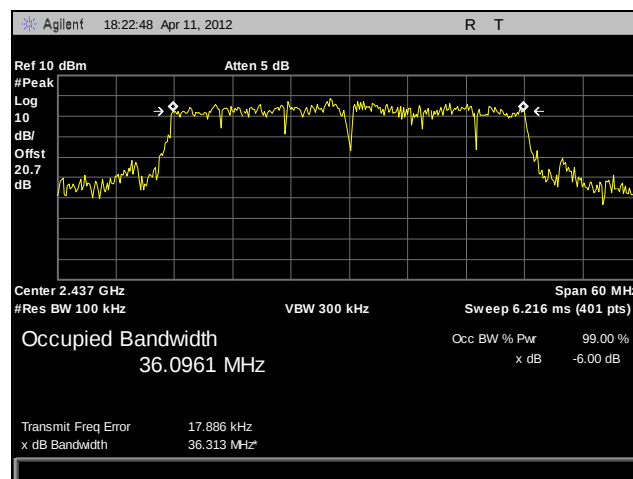


Plot 32. 6 dB Occupied Bandwidth, High Channel, 802.11n HT40, Port 2, 2.4 GHz

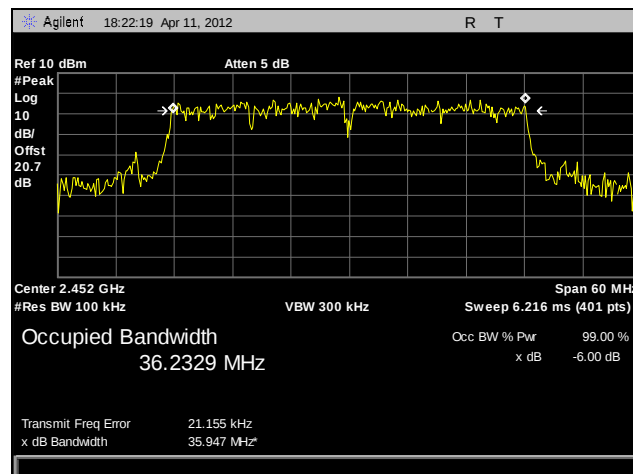
6 dB Occupied Bandwidth Test Results, 802.11n HT40, Port 3, 2.4 GHz



Plot 33. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT40, Port 3, 2.4 GHz

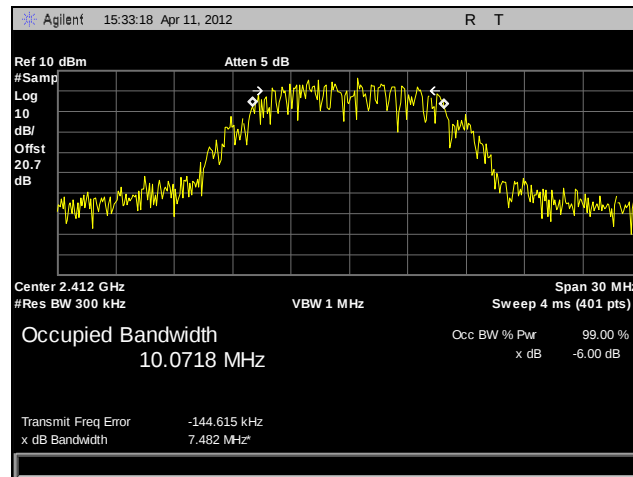


Plot 34. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT40, Port 3, 2.4 GHz

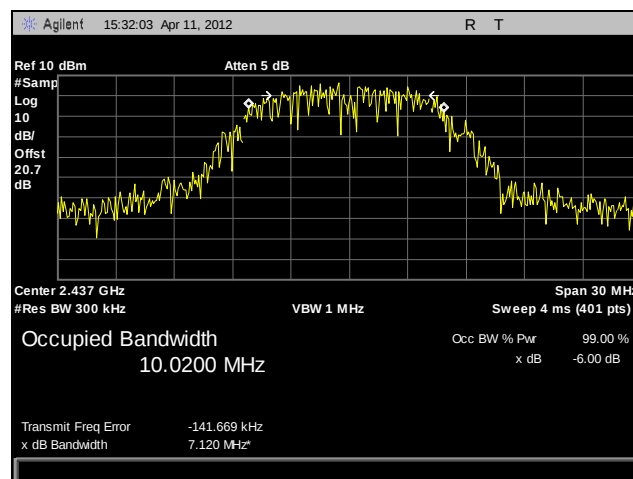


Plot 35. 6 dB Occupied Bandwidth, High Channel, 802.11n HT40, Port 3, 2.4 GHz

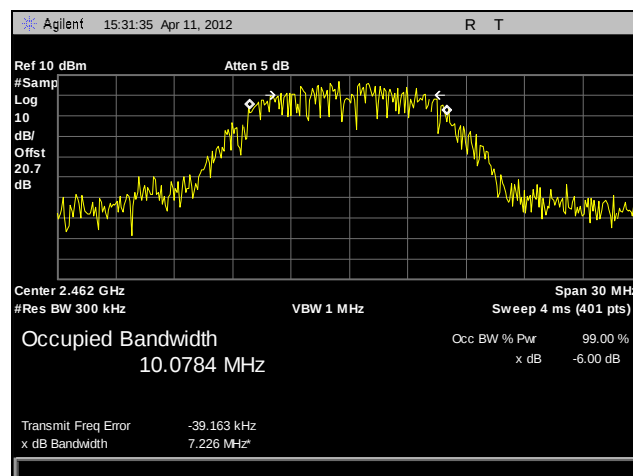
99% Occupied Bandwidth Test Results, 802.11b, 2.4 GHz



Plot 36. 99% Occupied Bandwidth, Low Channel, 802.11b, 2.4 GHz

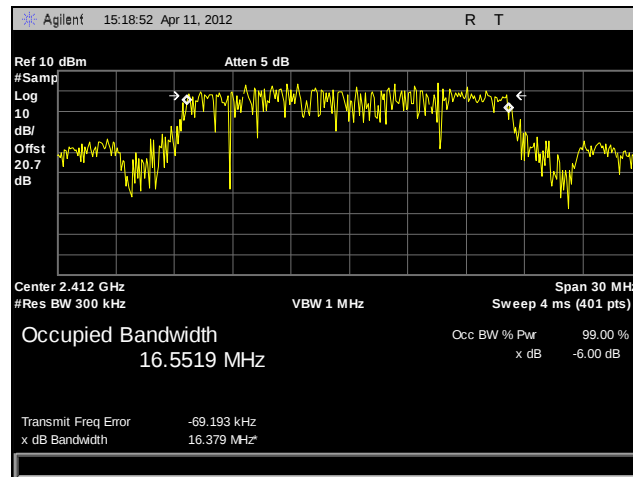


Plot 37. 99% Occupied Bandwidth, Mid Channel, 802.11b, 2.4 GHz

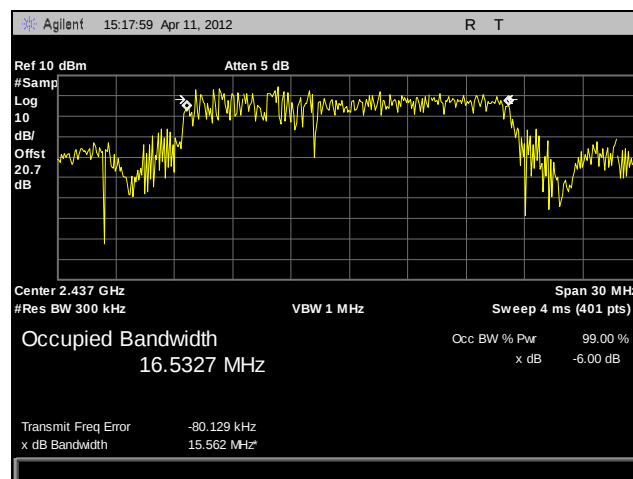


Plot 38. 99% Occupied Bandwidth, High Channel, 802.11b, 2.4 GHz

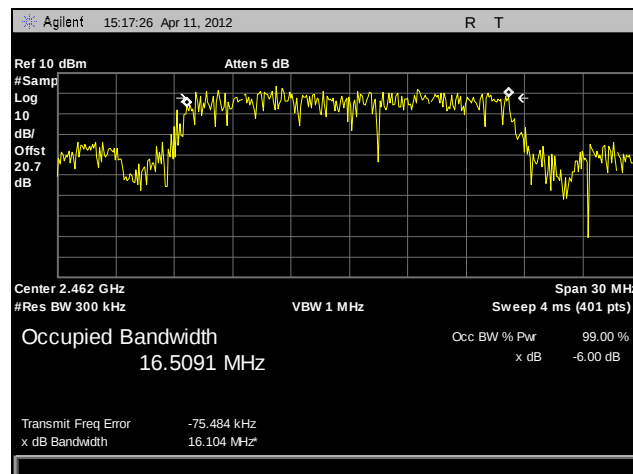
99% Occupied Bandwidth Test Results, 802.11g, 2.4 GHz



Plot 39. 99% Occupied Bandwidth, Low Channel, 802.11g, 2.4 GHz

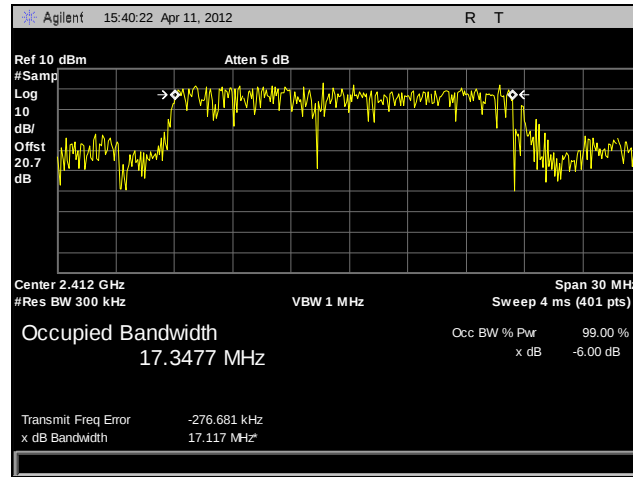


Plot 40. 99% Occupied Bandwidth, Mid Channel, 802.11g, 2.4 GHz

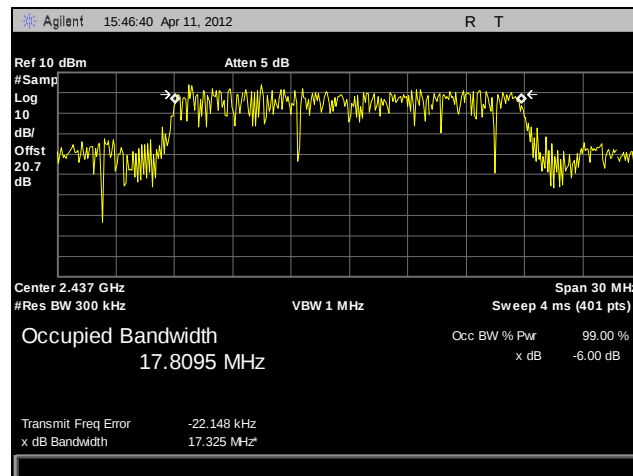


Plot 41. 99% Occupied Bandwidth, High Channel, 802.11g, 2.4 GHz

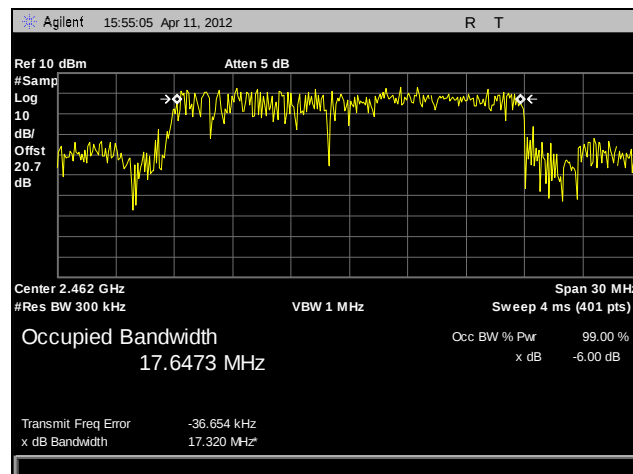
99% Occupied Bandwidth Test Results, 802.11n HT20, Port 1, 2.4 GHz



Plot 42. 99% Occupied Bandwidth, Low Channel, 802.11n HT20, Port 1, 2.4 GHz

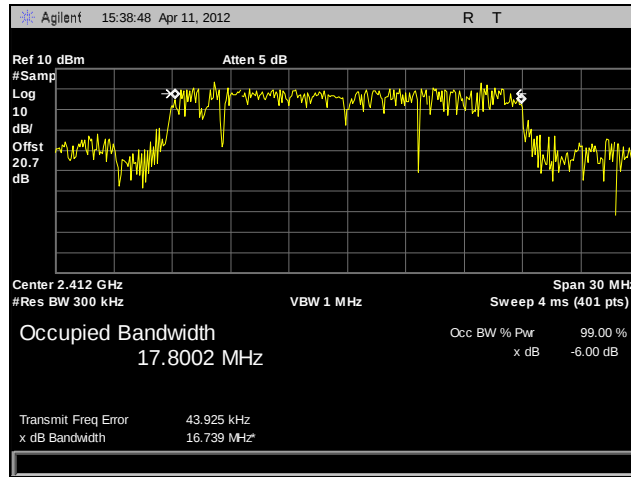


Plot 43. 99% Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 1, 2.4 GHz

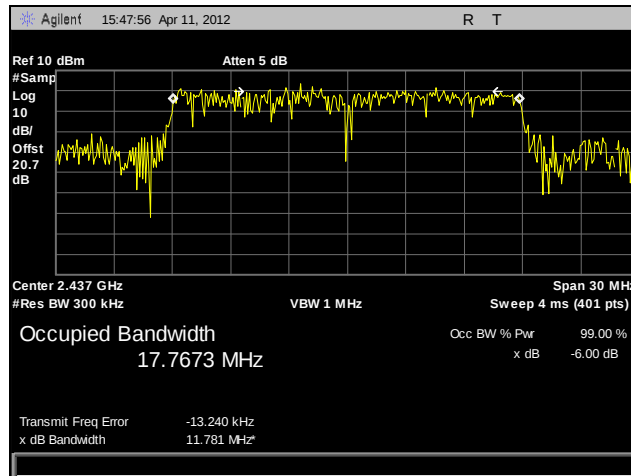


Plot 44. 99% Occupied Bandwidth, High Channel, 802.11n HT20, Port 1, 2.4 GHz

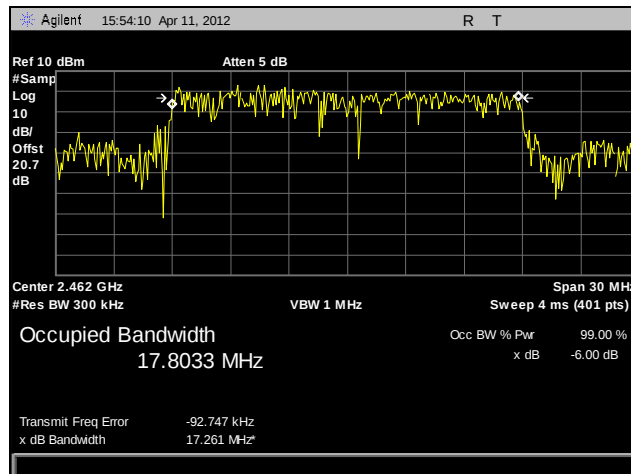
99% Occupied Bandwidth Test Results, 802.11n HT20, Port 2, 2.4 GHz



Plot 45. 99% Occupied Bandwidth, Low Channel, 802.11n HT20, Port 2, 2.4 GHz

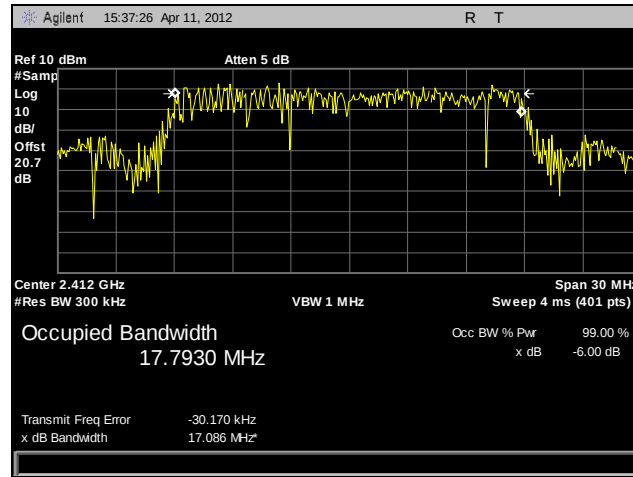


Plot 46. 99% Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 2, 2.4 GHz

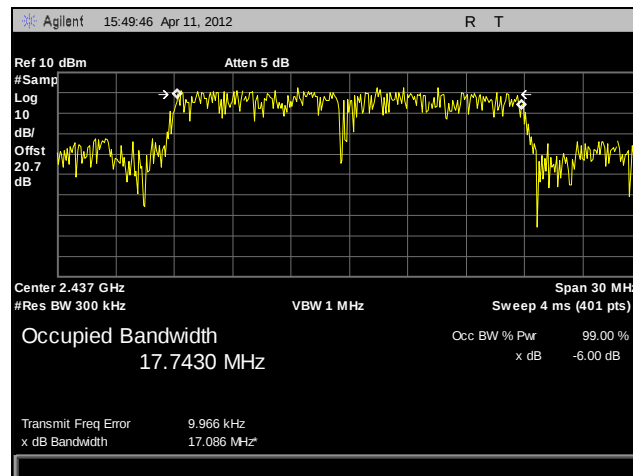


Plot 47. 99% Occupied Bandwidth, High Channel, 802.11n HT20, Port 2, 2.4 GHz

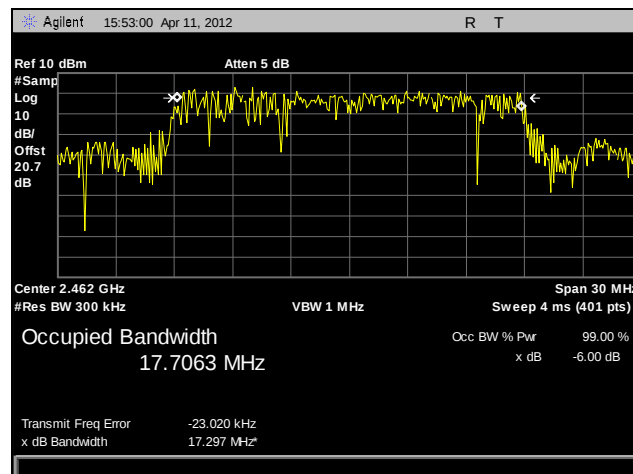
99% Occupied Bandwidth Test Results, 802.11n HT20, Port 3, 2.4 GHz



Plot 48. 99% Occupied Bandwidth, Low Channel, 802.11n HT20, Port 3, 2.4 GHz

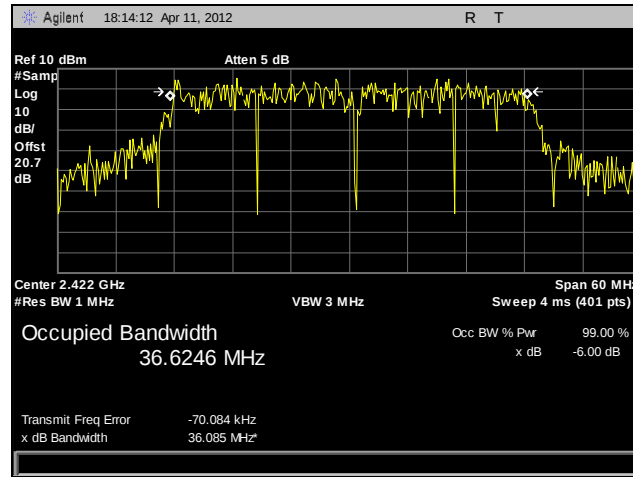


Plot 49. 99% Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 3, 2.4 GHz

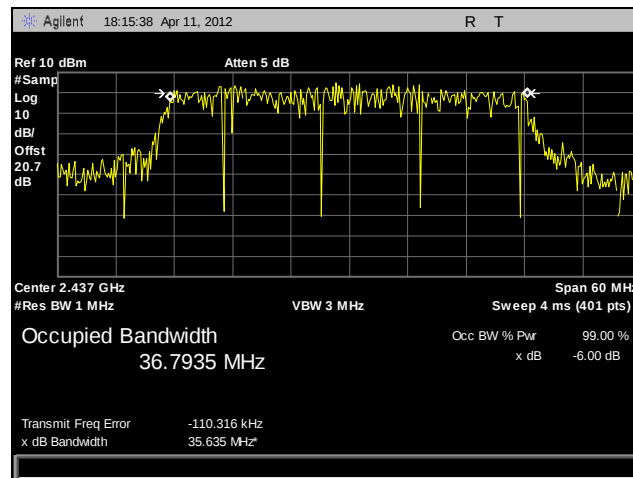


Plot 50. 99% Occupied Bandwidth, High Channel, 802.11n HT20, Port 3, 2.4 GHz

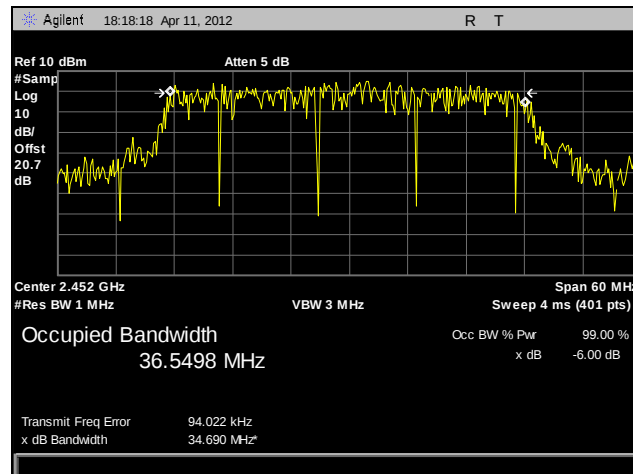
99% Occupied Bandwidth Test Results, 802.11n HT40, Port 1, 2.4 GHz



Plot 51. 99% Occupied Bandwidth, Low Channel, 802.11n HT40, Port 1, 2.4 GHz

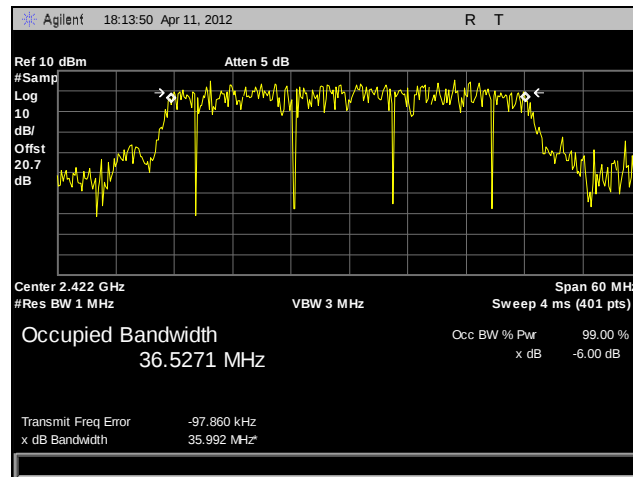


Plot 52. 99% Occupied Bandwidth, Mid Channel, 802.11n HT40, Port 1, 2.4 GHz

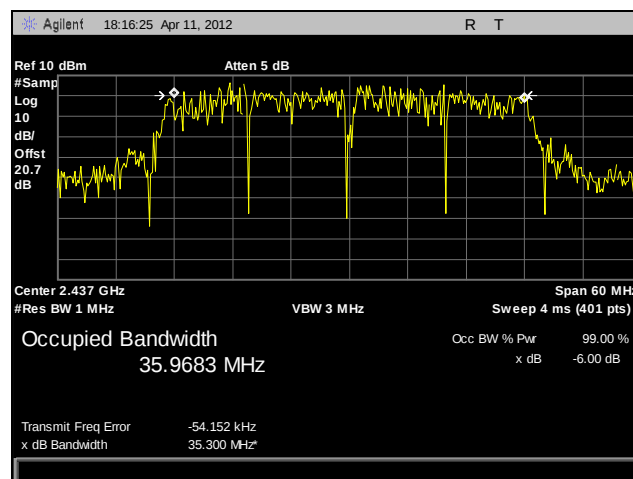


Plot 53. 99% Occupied Bandwidth, High Channel, 802.11n HT40, Port 1, 2.4 GHz

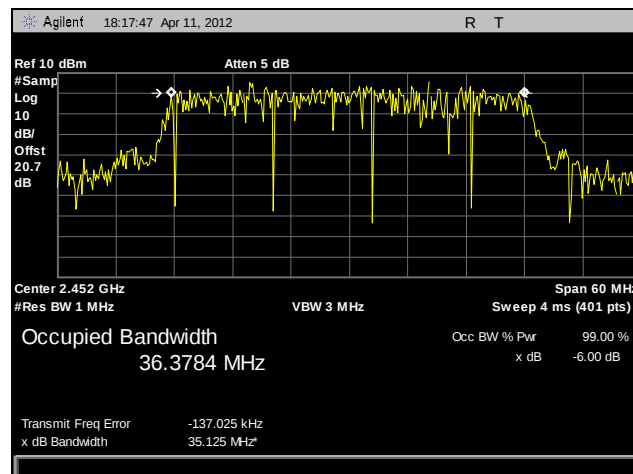
99% Occupied Bandwidth Test Results, 802.11n HT40, Port 2, 2.4 GHz



Plot 54. 99% Occupied Bandwidth, Low Channel, 802.11n HT40, Port 2, 2.4 GHz

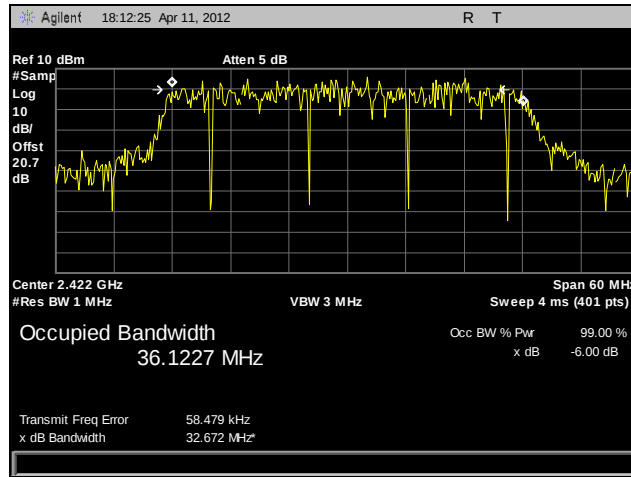


Plot 55. 99% Occupied Bandwidth, Mid Channel, 802.11n HT40, Port 2, 2.4 GHz

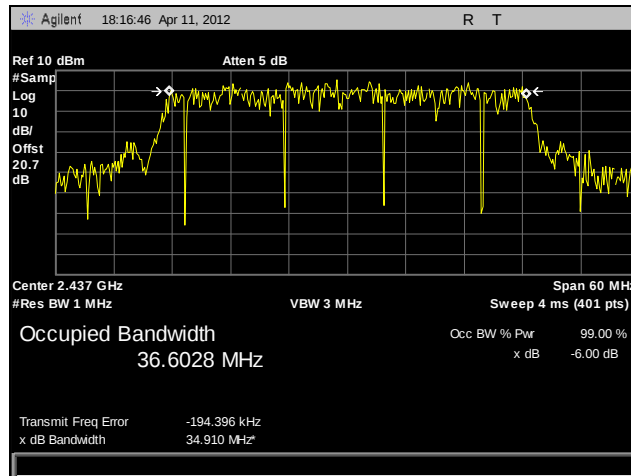


Plot 56. 99% Occupied Bandwidth, High Channel, 802.11n HT40, Port 2, 2.4 GHz

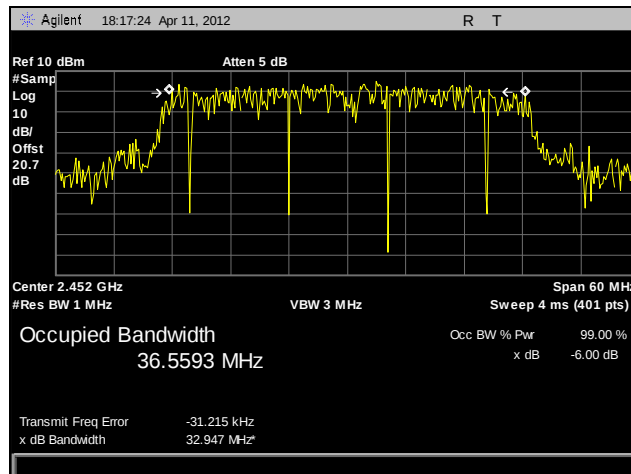
99% Occupied Bandwidth Test Results, 802.11n HT40, Port 3, 2.4 GHz



Plot 57. 99% Occupied Bandwidth, Low Channel, 802.11n HT40, Port 3, 2.4 GHz



Plot 58. 99% Occupied Bandwidth, Mid Channel, 802.11n HT40, Port 3, 2.4 GHz



Plot 59. 99% Occupied Bandwidth, High Channel, 802.11n HT40, Port 3, 2.4 GHz

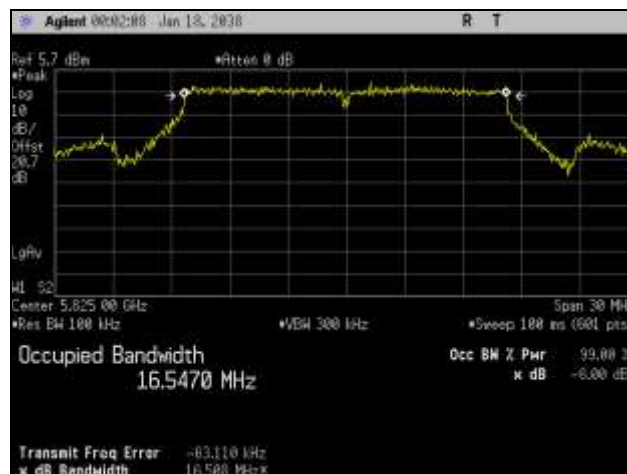
6 dB Occupied Bandwidth Test Results, 802.11a, 5 GHz



Plot 60. 6 dB Occupied Bandwidth, Low Channel, 802.11a, 5 GHz



Plot 61. 6 dB Occupied Bandwidth, Mid Channel, 802.11a, 5 GHz

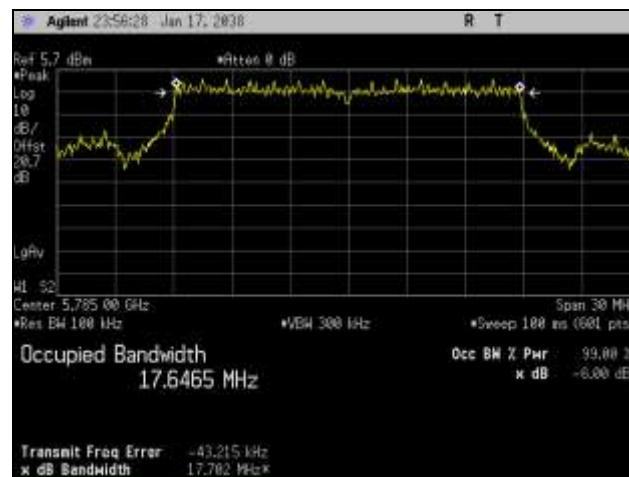


Plot 62. 6 dB Occupied Bandwidth, High Channel, 802.11a, 5 GHz

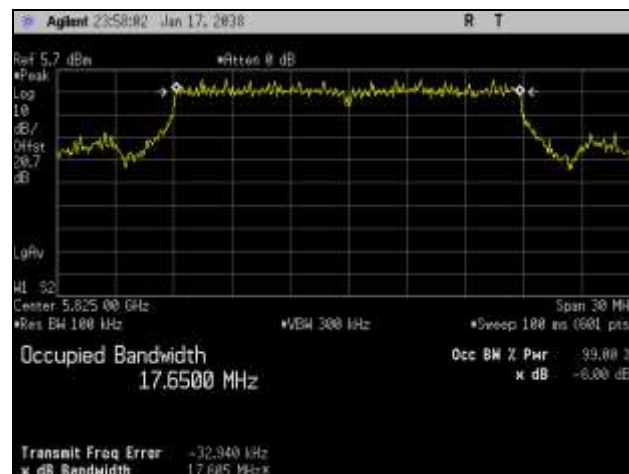
6 dB Occupied Bandwidth Test Results, 802.11n HT20, Port 1, 5 GHz



Plot 63. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT20, Port 1, 5 GHz

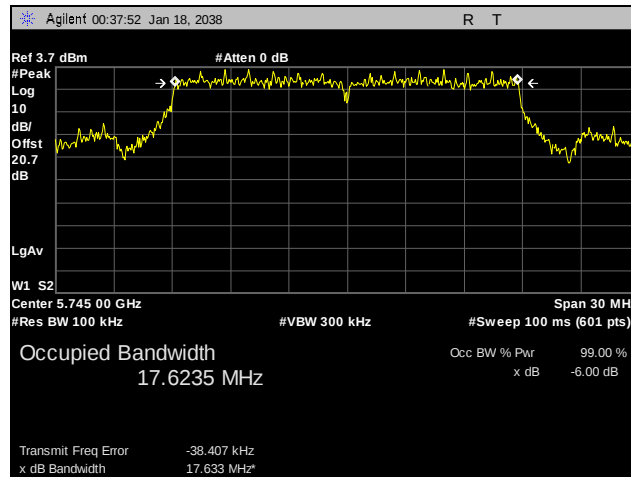


Plot 64. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 1, 5 GHz

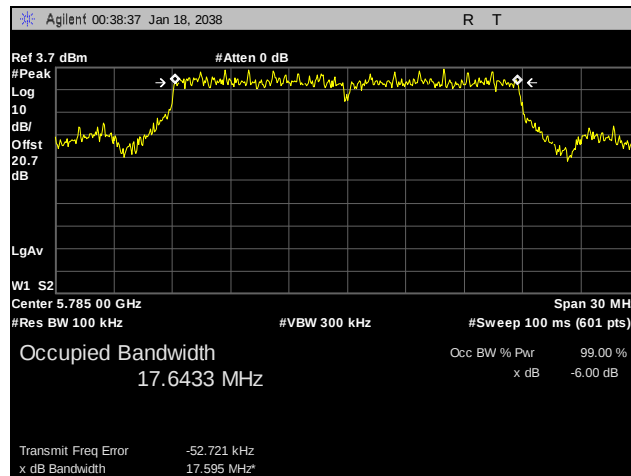


Plot 65. 6 dB Occupied Bandwidth, High Channel, 802.11n HT20, Port 1, 5 GHz

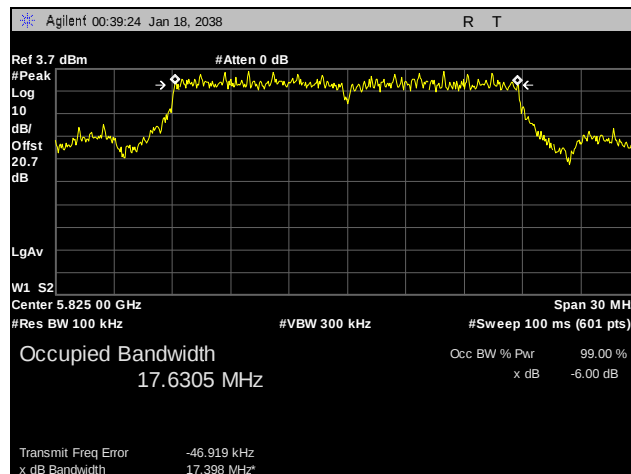
6 dB Occupied Bandwidth Test Results, 802.11n HT20, Port 2, 5 GHz



Plot 66. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT20, Port 2, 5 GHz

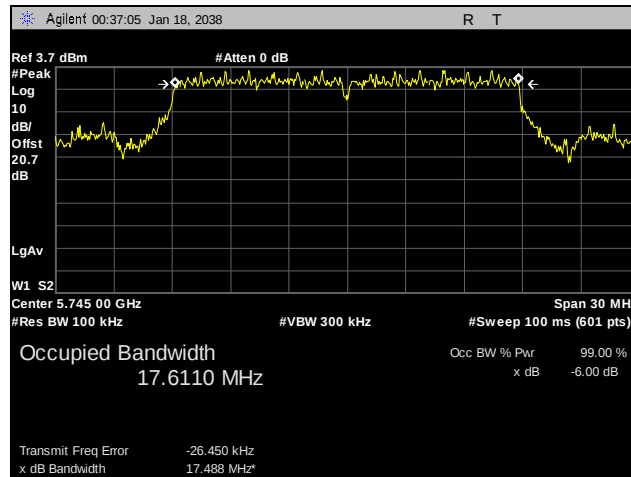


Plot 67. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 2, 5 GHz

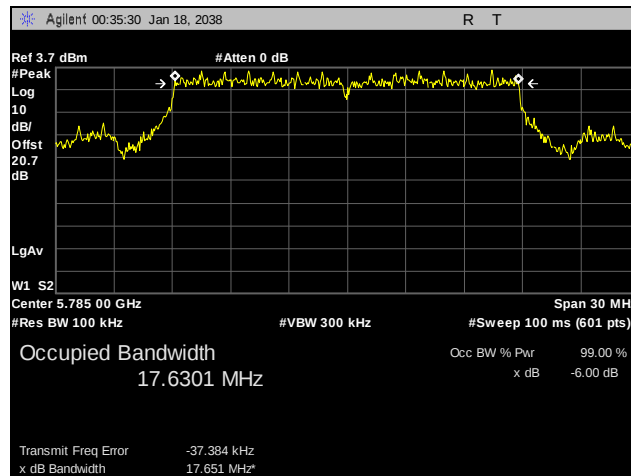


Plot 68. 6 dB Occupied Bandwidth, High Channel, 802.11n HT20, Port 2, 5 GHz

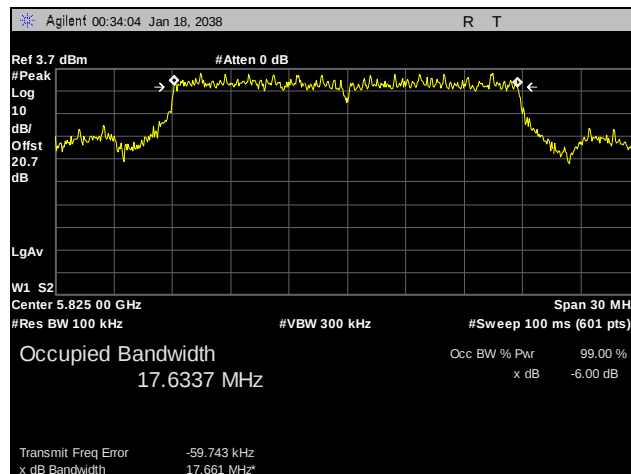
6 dB Occupied Bandwidth Test Results, 802.11n HT20, Port 3, 5 GHz



Plot 69. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT20, Port 3, 5 GHz

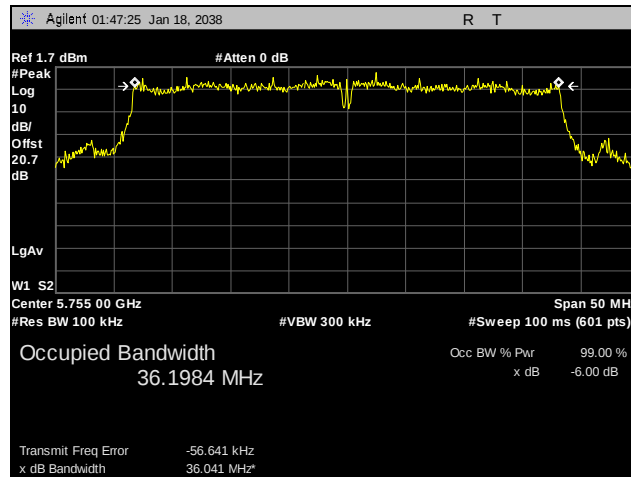


Plot 70. 6 dB Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 3, 5 GHz

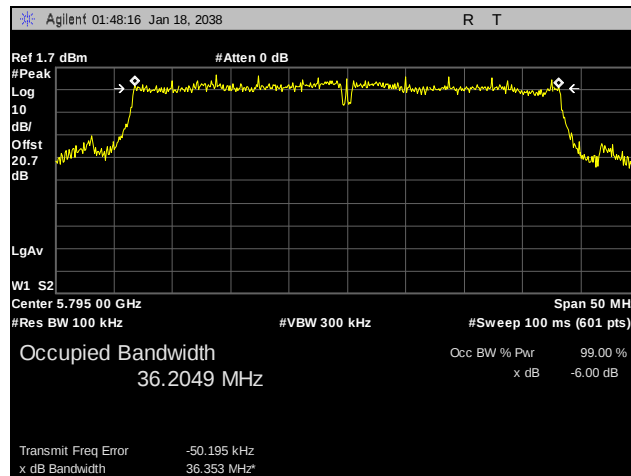


Plot 71. 6 dB Occupied Bandwidth, High Channel, 802.11n HT20, Port 3, 5 GHz

6 dB Occupied Bandwidth Test Results, 802.11n HT40, Port 1, 5 GHz

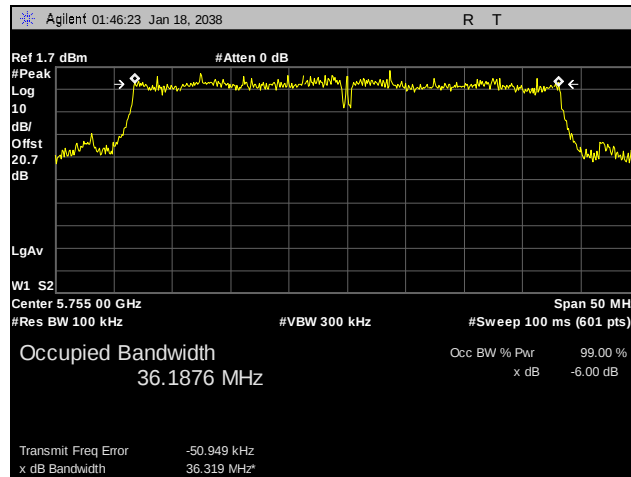


Plot 72. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT40, Port 1, 5 GHz

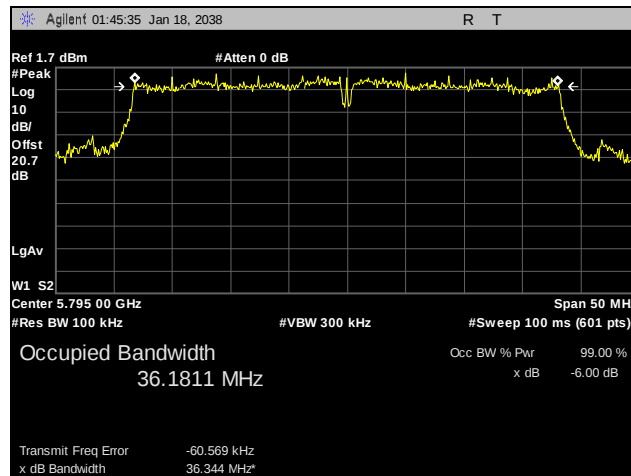


Plot 73. 6 dB Occupied Bandwidth, High Channel, 802.11n HT40, Port 1, 5 GHz

6 dB Occupied Bandwidth Test Results, 802.11n HT40, Port 2, 5 GHz

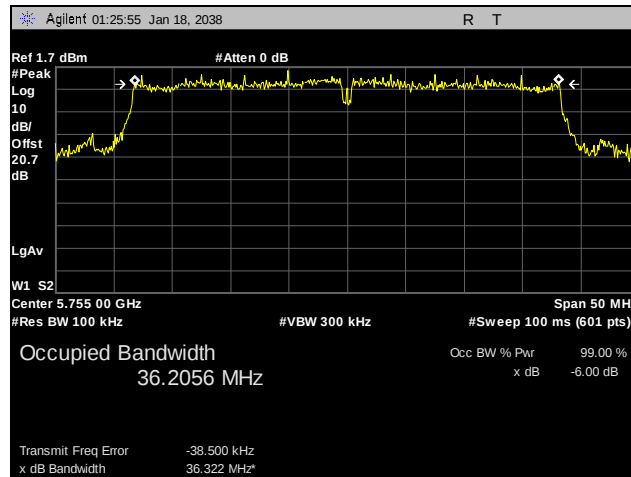


Plot 74. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT40, Port 2, 5 GHz

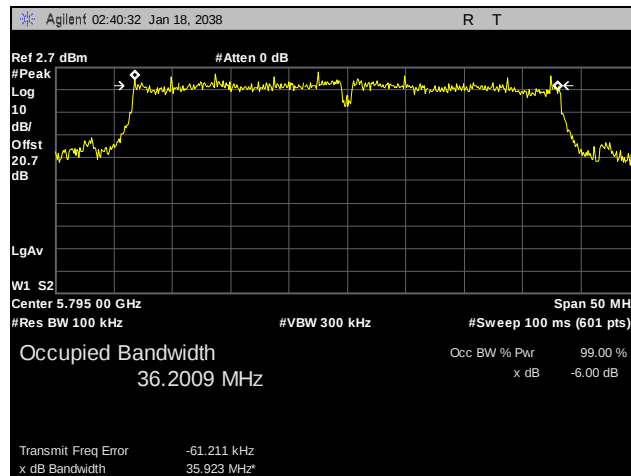


Plot 75. 6 dB Occupied Bandwidth, High Channel, 802.11n HT40, Port 2, 5 GHz

6 dB Occupied Bandwidth Test Results, 802.11n HT40, Port 3, 5 GHz

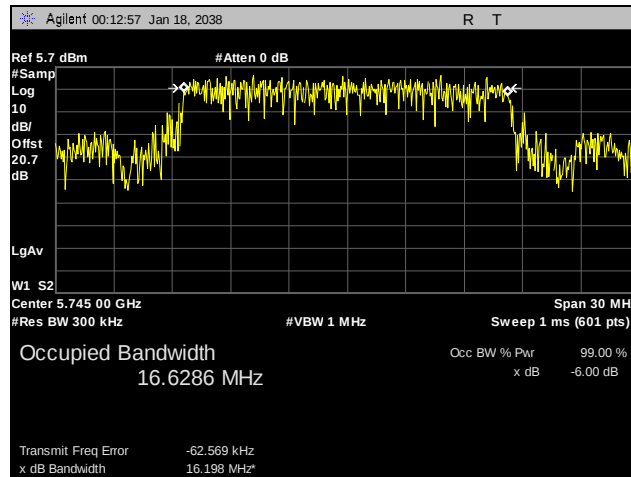


Plot 76. 6 dB Occupied Bandwidth, Low Channel, 802.11n HT40, Port 3, 5 GHz

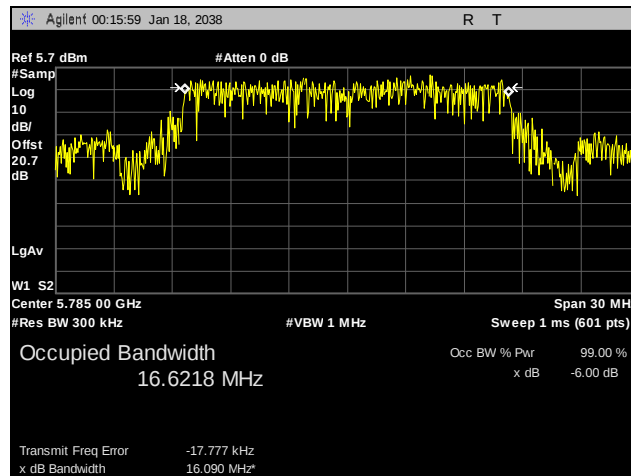


Plot 77. 6 dB Occupied Bandwidth, High Channel, 802.11n HT40, Port 3, 5 GHz

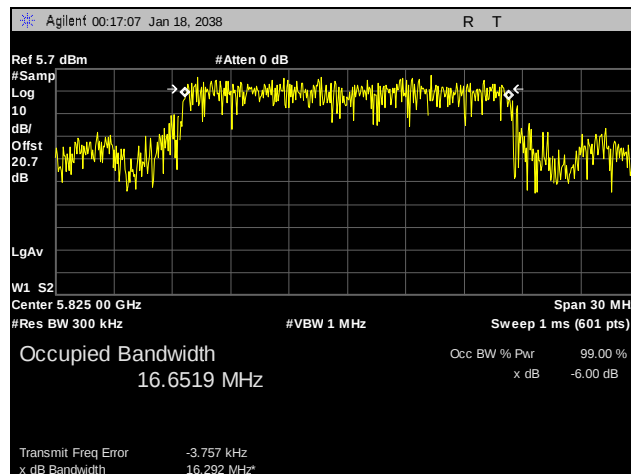
99% Occupied Bandwidth Test Results, 802.11a, 5 GHz



Plot 78. 99% Occupied Bandwidth, Low Channel, 802.11a, 5 GHz

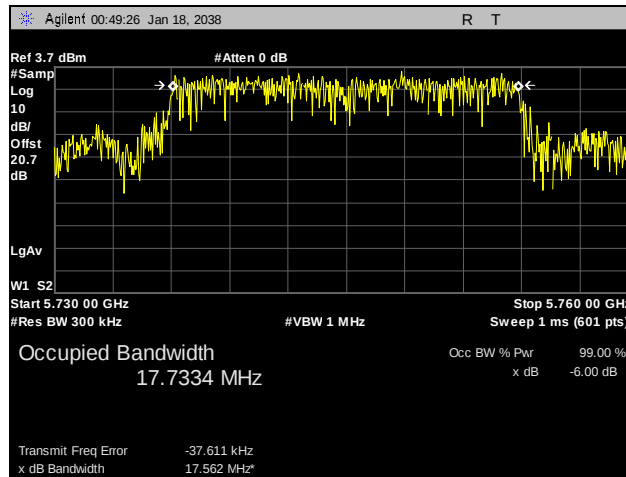


Plot 79. 99% Occupied Bandwidth, Mid Channel, 802.11a, 5 GHz

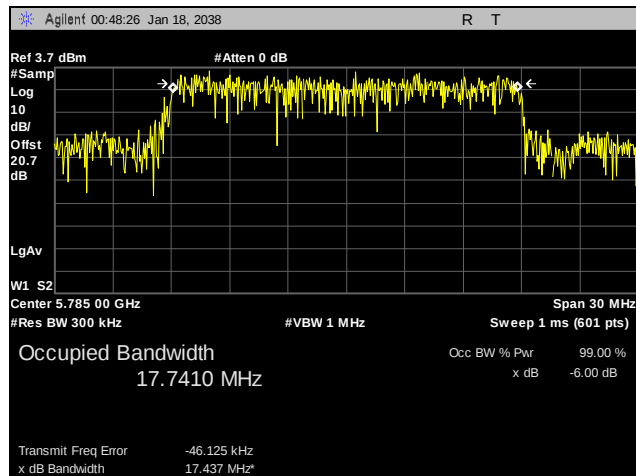


Plot 80. 99% Occupied Bandwidth, High Channel, 802.11a, 5 GHz

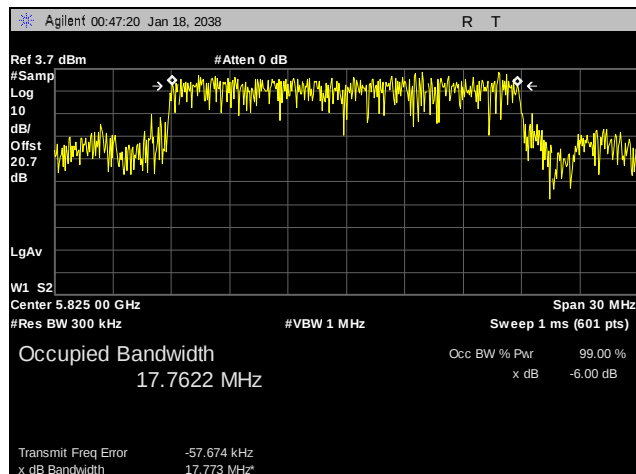
99% Occupied Bandwidth Test Results, 802.11n HT20, Port 1, 5 GHz



Plot 81. 99% Occupied Bandwidth, Low Channel, 802.11n HT20, Port 1, 5 GHz

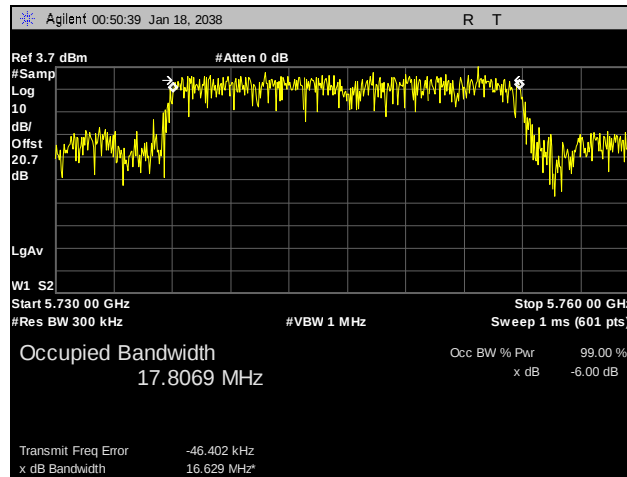


Plot 82. 99% Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 1, 5 GHz

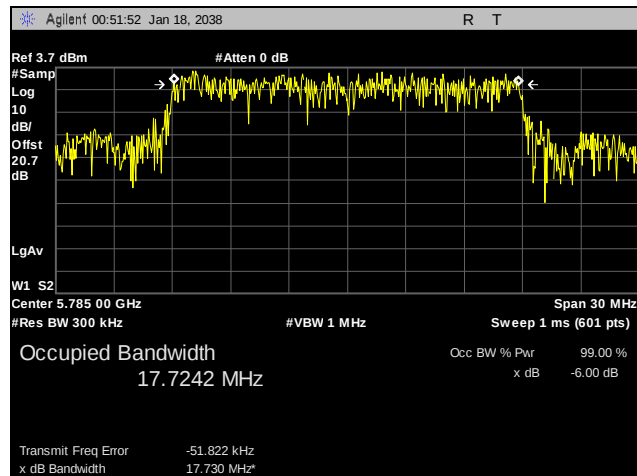


Plot 83. 99% Occupied Bandwidth, High Channel, 802.11n HT20, Port 1, 5 GHz

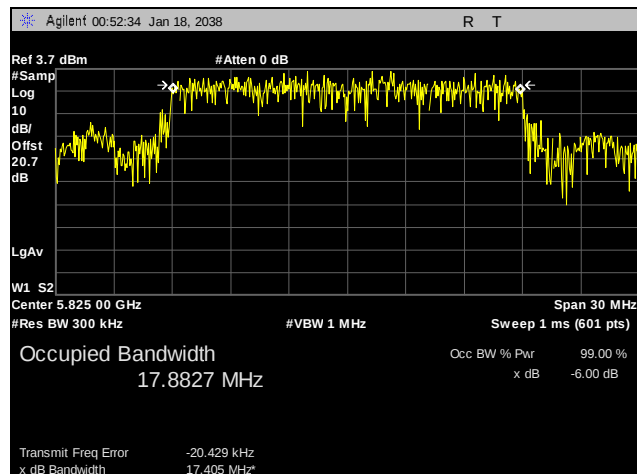
99% Occupied Bandwidth Test Results, 802.11n HT20, Port 2, 5 GHz



Plot 84. 99% Occupied Bandwidth, Low Channel, 802.11n HT20, Port 2, 5 GHz

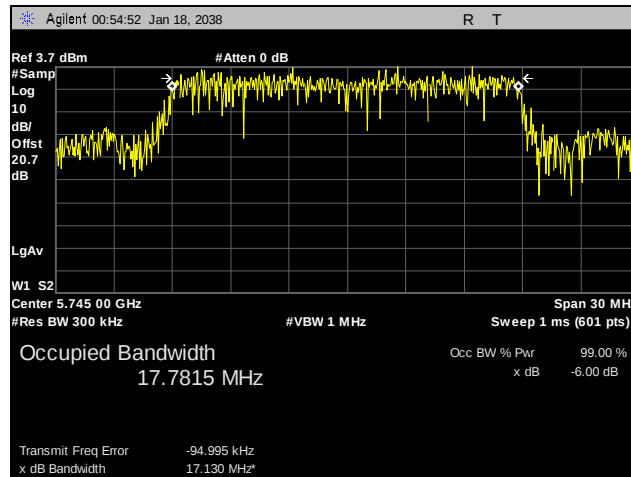


Plot 85. 99% Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 2, 5 GHz

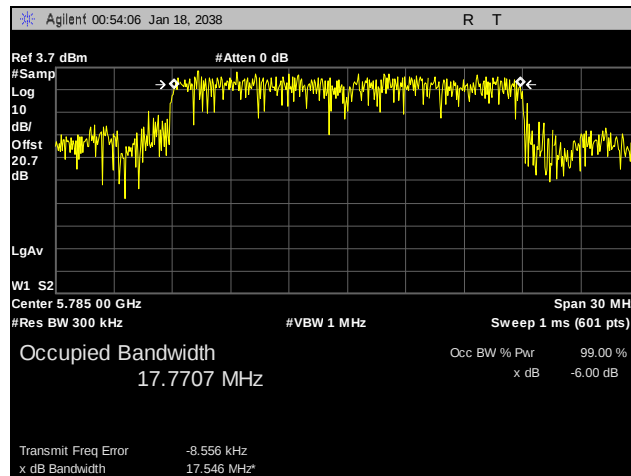


Plot 86. 99% Occupied Bandwidth, High Channel, 802.11n HT20, Port 2, 5 GHz

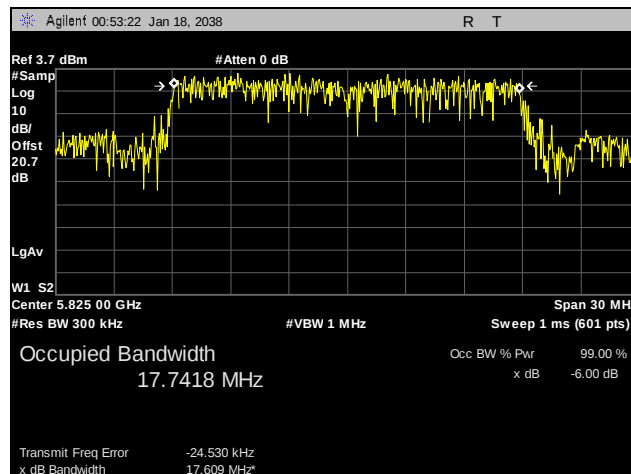
99% Occupied Bandwidth Test Results, 802.11n HT20, Port 3, 5 GHz



Plot 87. 99% Occupied Bandwidth, Low Channel, 802.11n HT20, Port 3, 5 GHz

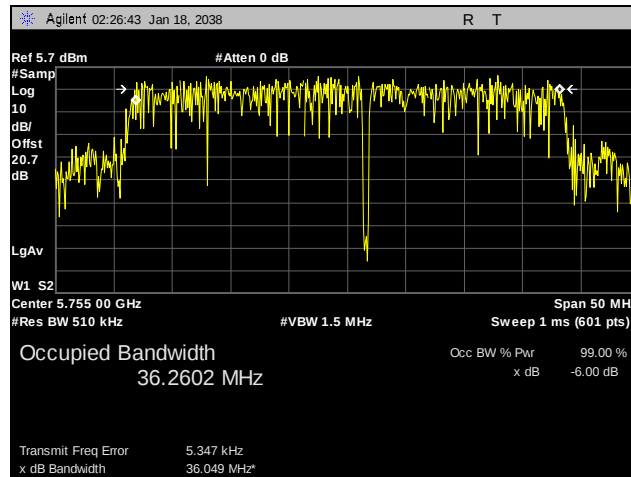


Plot 88. 99% Occupied Bandwidth, Mid Channel, 802.11n HT20, Port 3, 5 GHz

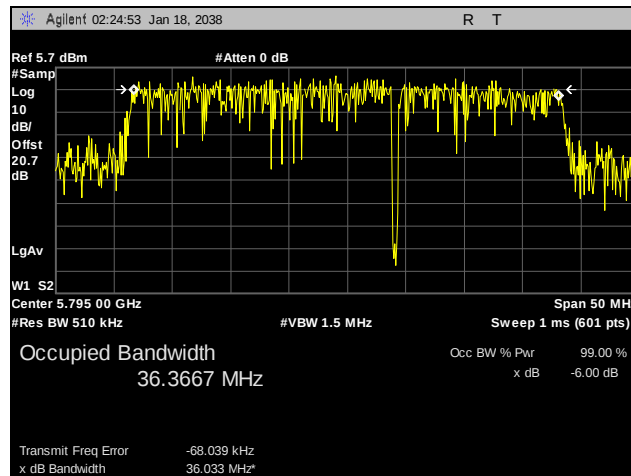


Plot 89. 99% Occupied Bandwidth, High Channel, 802.11n HT20, Port 3, 5 GHz

99% Occupied Bandwidth Test Results, 802.11n HT40, Port 1, 5 GHz

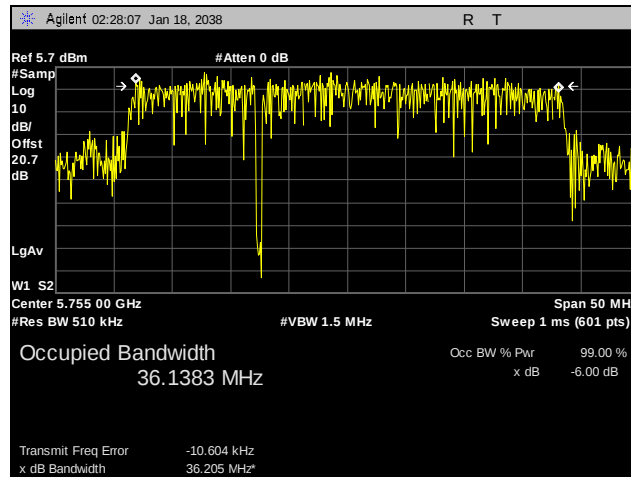


Plot 90. 99% Occupied Bandwidth, Low Channel, 802.11n HT40, Port 1, 5 GHz

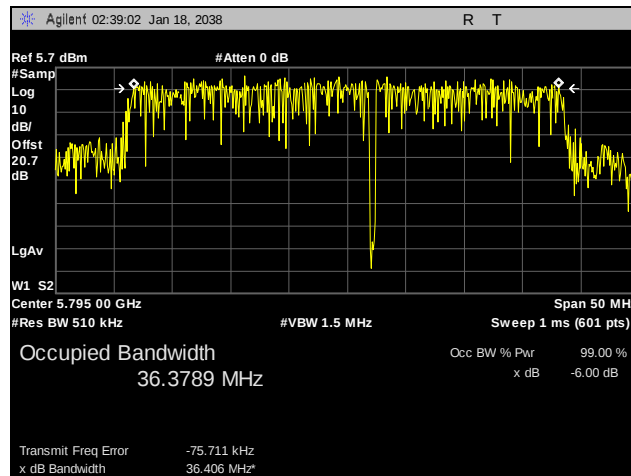


Plot 91. 99% Occupied Bandwidth, High Channel, 802.11n HT40, Port 1, 5 GHz

99% Occupied Bandwidth Test Results, 802.11n HT40, Port 2, 5 GHz

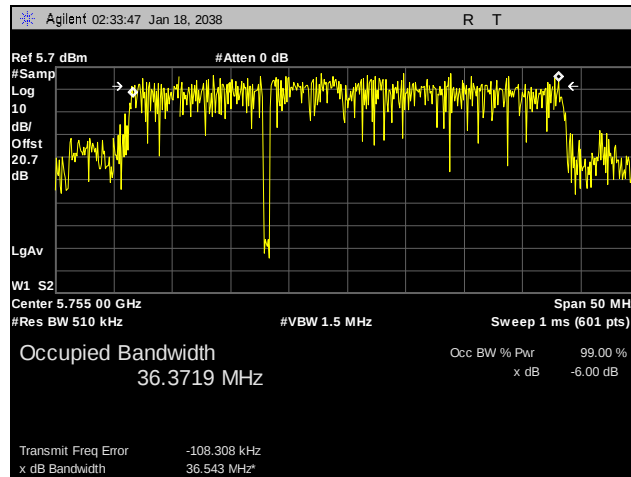


Plot 92. 99% Occupied Bandwidth, Low Channel, 802.11n HT40, Port 2, 5 GHz

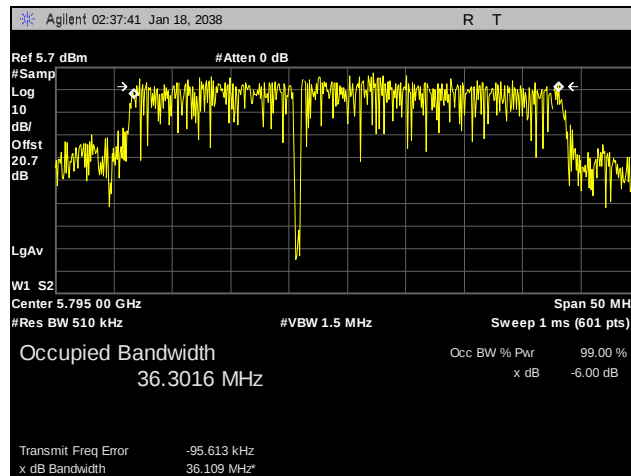


Plot 93. 99% Occupied Bandwidth, High Channel, 802.11n HT40, Port 2, 5 GHz

99% Occupied Bandwidth Test Results, 802.11n HT40, Port 3, 5 GHz



Plot 94. 99% Occupied Bandwidth, Low Channel, 802.11n HT40, Port 3, 5 GHz



Plot 95. 99% Occupied Bandwidth, High Channel, 802.11n HT40, Port 3, 5 GHz

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(b) Peak Power Output

Test Requirements: §15.247(b): The maximum peak output power of the intentional radiator shall not exceed the following:

Digital Transmission Systems (MHz)	Output Limit (Watts)
902-928	1.000
2400-2483.5	1.000
5725- 5850	1.000

Table 25. Output Power Requirements from §15.247(b)

§15.247(c): if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in the Table 25, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400 – 2483.5 MHz band and using a point to point application may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

Fixed, point-to-point operation excludes the use of point-to-multipoint systems, Omni-directional applications, and multiple co-located intentional radiators transmitting the same information. The operator of the spread spectrum intentional radiator or, if the equipment is professionally installed, the installer is responsible for ensuring that the system is used exclusively for fixed, point-to-point operations. The instruction manual furnished with the intentional radiator shall contain language in the installation instructions informing the operator and the installer of this responsibility.

Test Procedure: The transmitter was connected to a calibrated spectrum analyzer. The EUT was measured at the low, mid and high channels of each band at the maximum power level.

Test Results: The EUT was compliant with the Peak Power Output limits of §15.247(b).

Test Engineer(s): Anderson Soungpanya

Test Date(s): 05/04/12



Figure 3. Peak Power Output Test Setup

Peak Power Output Test Results, 2.4 GHz

Peak Conducted Output Power			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power dBm
802.11b	Channel 1	2412	17.81
	Channel 6	2437	17.62
	Channel 11	2462	17.46
802.11g	Channel 1	2412	17.28
	Channel 2	2417	22.15
	Channel 6	2437	22.02
	Channel 10	2457	22.05
	Channel 11	2462	17.16
802.11n 20 MHz Port 1	Channel 1	2412	13.90
	Channel 2	2417	16.78
	Channel 3	2422	20.20
	Channel 6	2437	20.10
	Channel 9	2452	19.78
	Channel 10	2457	16.63
	Channel 11	2462	13.61
802.11n 20 MHz Port 2	Channel 1	2412	14.38
	Channel 2	2417	16.89
	Channel 3	2422	20.49
	Channel 6	2437	20.84
	Channel 9	2452	20.00
	Channel 10	2457	16.86
	Channel 11	2462	14.51
802.11n 20 MHz Port 3	Channel 1	2412	14.99
	Channel 2	2417	17.23
	Channel 3	2422	20.18
	Channel 6	2437	20.22
	Channel 9	2452	19.50
	Channel 10	2457	17.20
	Channel 11	2462	14.88
802.11n 20 MHz Sum Ports 1 – 3	Channel 1	2412	19.22
	Channel 2	2417	21.74
	Channel 3	2422	25.06
	Channel 6	2437	25.17
	Channel 9	2452	24.54
	Channel 10	2457	21.67
	Channel 11	2462	19.14

Table 26. Peak Power Output, Test Results, 2.4 GHz 20 MHz Bandwidth

Peak Conducted Output Power			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power dBm
802.11n 40 MHz Port 1	Channel 3	2422	13.78
	Channel 4	2427	13.86
	Channel 5	2432	14.77
	Channel 6	2437	19.94
	Channel 8	2447	19.70
	Channel 9	2452	14.51
802.11n 40 MHz Port 2	Channel 3	2422	14.41
	Channel 4	2427	14.36
	Channel 5	2432	15.89
	Channel 6	2437	20.24
	Channel 8	2447	20.44
	Channel 9	2452	15.42
802.11n 40 MHz Port 3	Channel 3	2422	15.71
	Channel 4	2427	15.70
	Channel 5	2432	16.16
	Channel 6	2437	19.82
	Channel 8	2447	20.05
	Channel 9	2452	15.93
802.11n 40 MHz Sum Ports 1-3	Channel 3	2422	19.48
	Channel 4	2427	19.48
	Channel 5	2432	20.42
	Channel 6	2437	24.77
	Channel 8	2447	24.85
	Channel 9	2452	20.10

Table 27. Peak Power Output, Test Results, 2.4 GHz 40 MHz Bandwidth

Peak Power Output Test Results, 5 GHz

Peak Conducted Output Power			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power dBm
802.11a	Low Channel	5745	20.70
	Mid Channel	5785	20.43
	High Channel	5825	20.46
802.11n 20 MHz Port 1	Low Channel	5745	15.57
	Mid Channel	5785	15.57
	High Channel	5825	15.27
802.11n 20 MHz Port 2	Low Channel	5745	15.31
	Mid Channel	5785	15.28
	High Channel	5825	15.16
802.11n 20 MHz Port 3	Low Channel	5745	15.96
	Mid Channel	5785	15.96
	High Channel	5825	15.77
802.11n 20 MHz Sum Ports 1-3	Low Channel	5745	20.39
	Mid Channel	5785	20.38
	High Channel	5825	20.18
'802.11n 40 MHz Port 1	Low Channel	5755	16.52
	High Channel	5795	16.45
802.11n 40 MHz Port 2	Low Channel	5755	15.72
	High Channel	5795	15.53
802.11n 40 MHz Port 3	Low Channel	5755	16.89
	High Channel	5795	16.70
802.11n 40 MHz Sum Ports 1-3	Low Channel	5755	21.17
	High Channel	5795	21.03

Table 28. Peak Power Output, Test Results, 5 GHz

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.247(d) Radiated Spurious Emissions Requirements and Band Edge

Test Requirements: §15.247(d); §15.205: Emissions outside the frequency band.

§15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

§15.205(a): Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090–0.110-----	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505-----	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905-----	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128-----	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775-----	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775-----	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218-----	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825-----	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225-----	123–138	2200–2300	14.47–14.5
8.291–8.294-----	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366-----	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675-----	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475-----	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293-----	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025-----	240–285	3345.8–3358 36.	43–36.5
12.57675–12.57725-----	322–335.4	3600–4400	(²)

Table 29. Restricted Bands of Operation

¹ Until February 1, 1999, this restricted band shall be 0.490 – 0.510 MHz.

² Above 38.6

Test Requirement(s): § 15.209 (a): Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 30.

Frequency (MHz)	§ 15.209(a), Radiated Emission Limits (dBµV) @ 3m
30 - 88	40.00
88 - 216	43.50
216 - 960	46.00
Above 960	54.00

Table 30. Radiated Emissions Limits Calculated from FCC Part 15, § 15.209 (a)

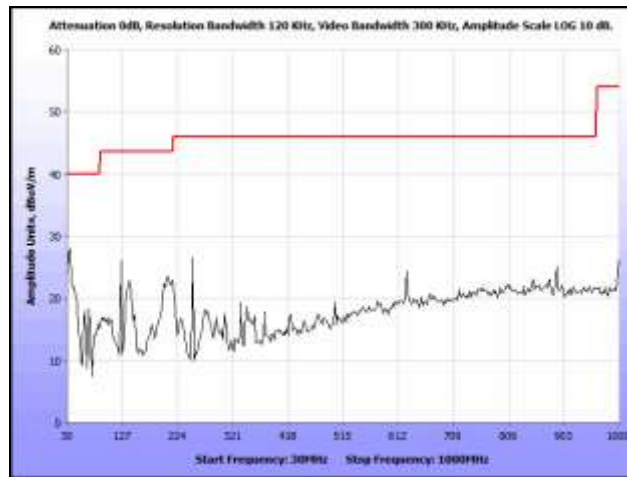
Test Procedures: The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for antenna correction factor, preamp, cable loss and distance and compared to a 3 m limit line. Only noise floor was measured above 18 GHz.

Test Results: The EUT was compliant with the Radiated Spurious Emission limits of § 15.247(d).

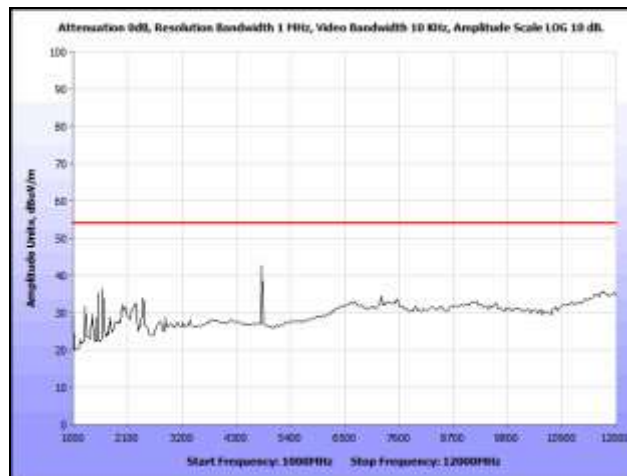
Test Engineer(s): Anderson Soungpanya

Test Date(s): 04/27/12

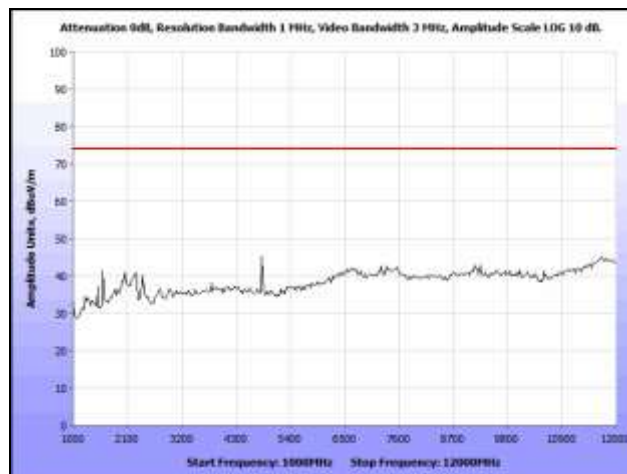
Radiated Spurious Emissions Test Results, 802.11b, 6 dBi Omni Antenna, 2.4 GHz



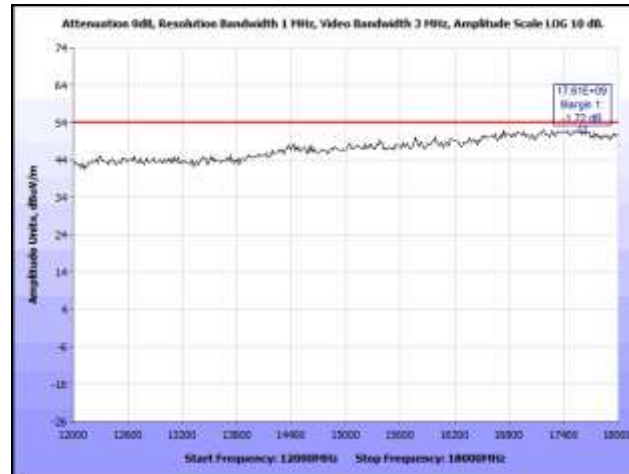
Plot 96. Radiated Spurious Emissions, Low Channel, 802.11b, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



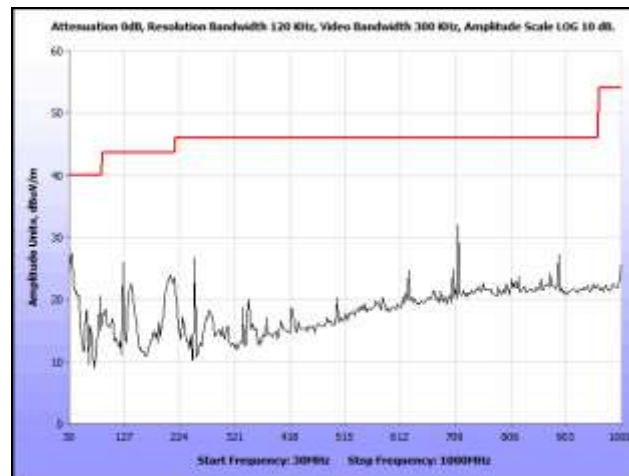
Plot 97. Radiated Spurious Emissions, Low Channel, 802.11b, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



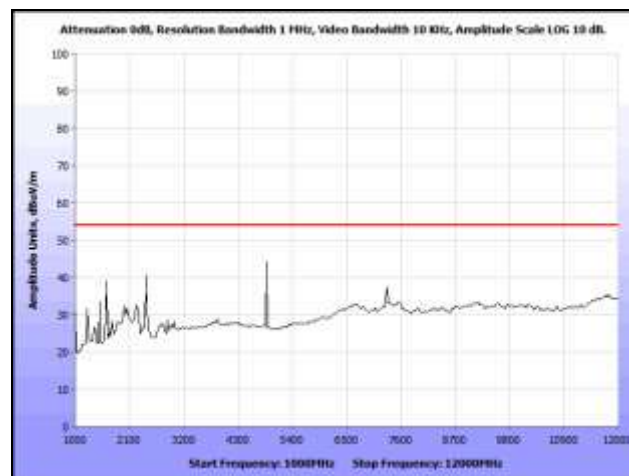
Plot 98. Radiated Spurious Emissions, Low Channel, 802.11b, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



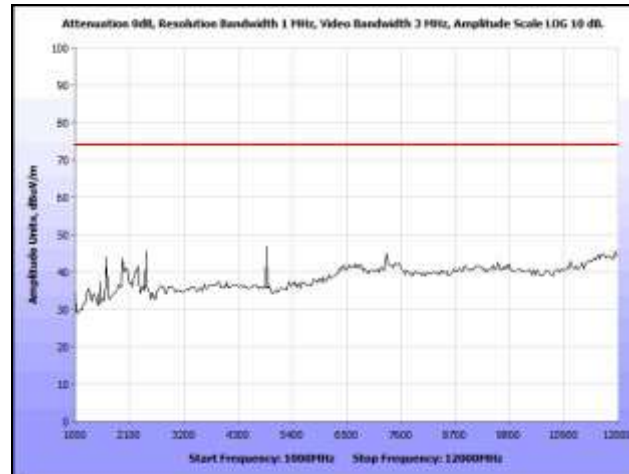
Plot 99. Radiated Spurious Emissions, Low Channel, 802.11b, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



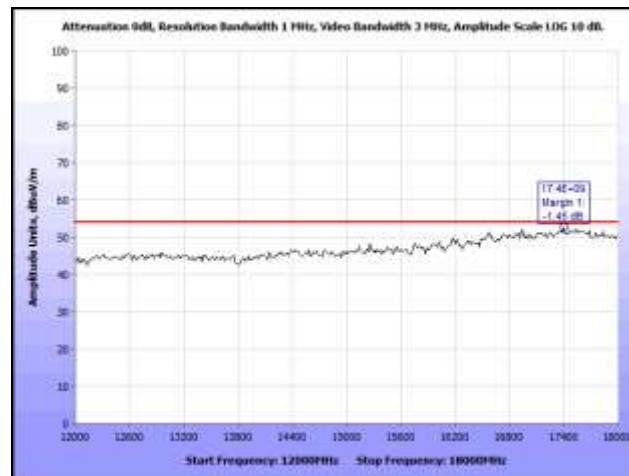
Plot 100. Radiated Spurious Emissions, Mid Channel, 802.11b, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



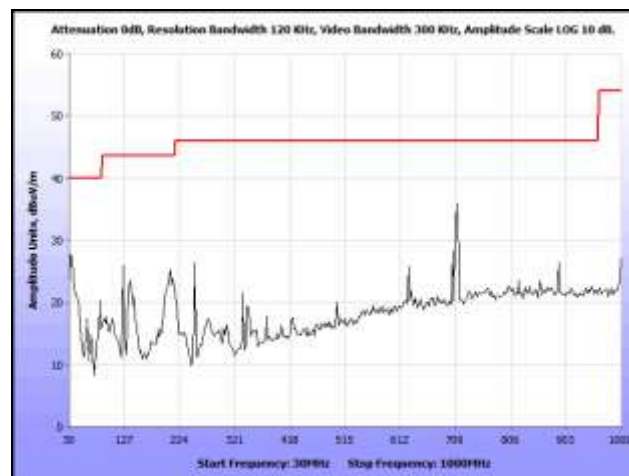
Plot 101. Radiated Spurious Emissions, Mid Channel, 802.11b, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



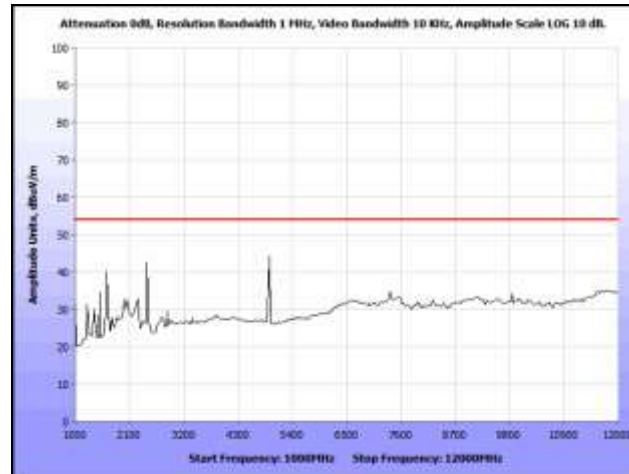
Plot 102. Radiated Spurious Emissions, Mid Channel, 802.11b, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



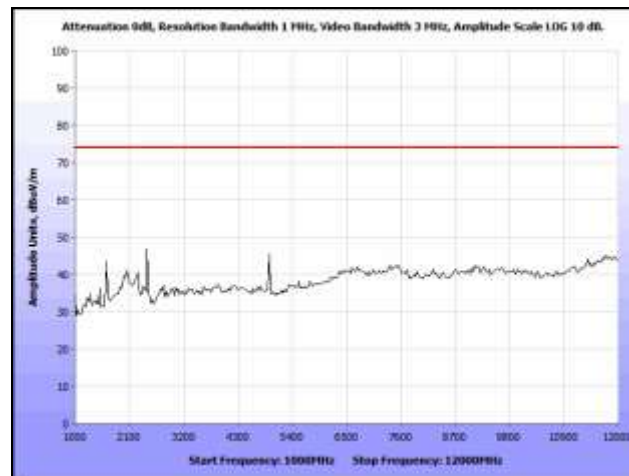
Plot 103. Radiated Spurious Emissions, Mid Channel, 802.11b, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



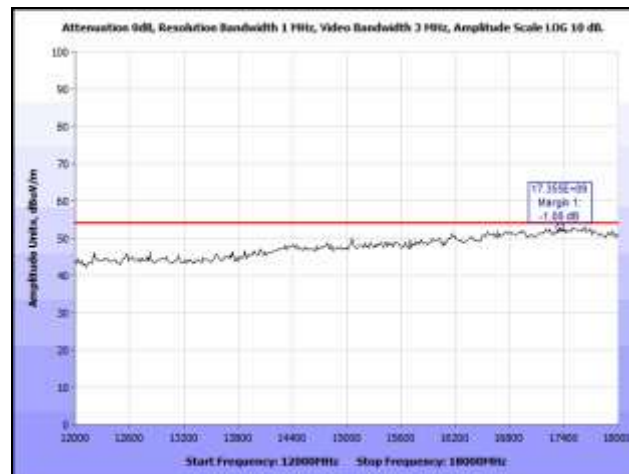
Plot 104. Radiated Spurious Emissions, High Channel, 802.11b, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



Plot 105. Radiated Spurious Emissions, High Channel, 802.11b, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz

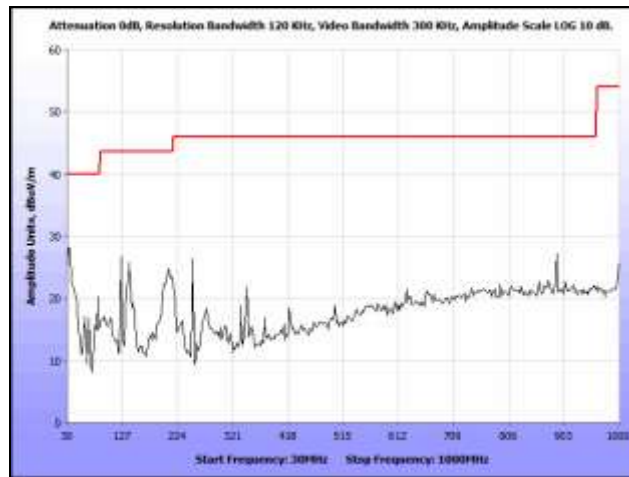


Plot 106. Radiated Spurious Emissions, High Channel, 802.11b, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz

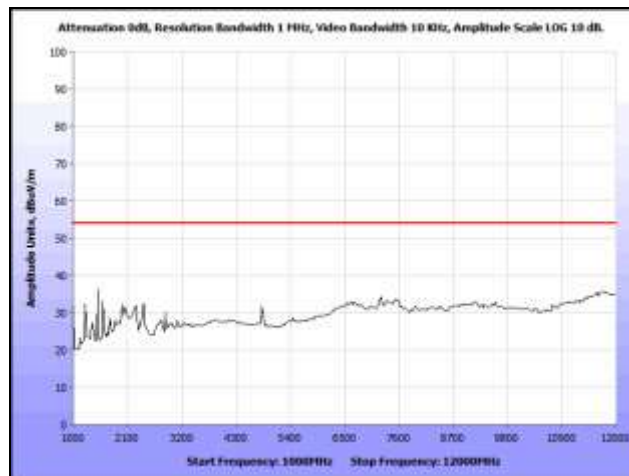


Plot 107. Radiated Spurious Emissions, High Channel, 802.11b, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz

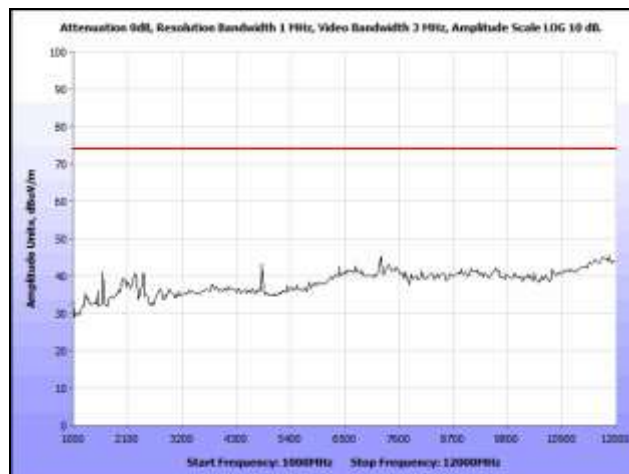
Radiated Spurious Emissions Test Results, 802.11g, 6 dBi Omni Antenna, 2.4 GHz



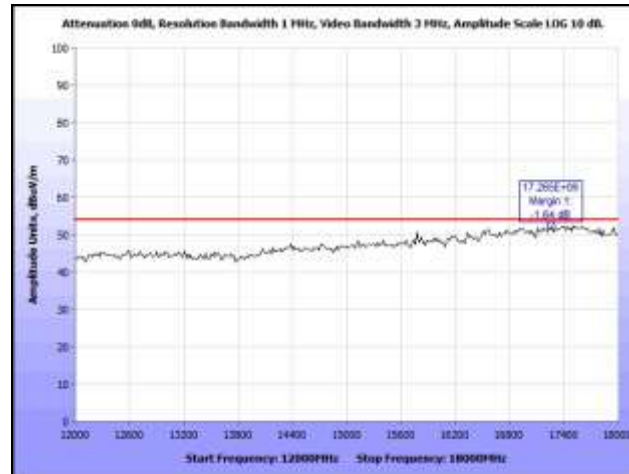
Plot 108. Radiated Spurious Emissions, Low Channel, 802.11g, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



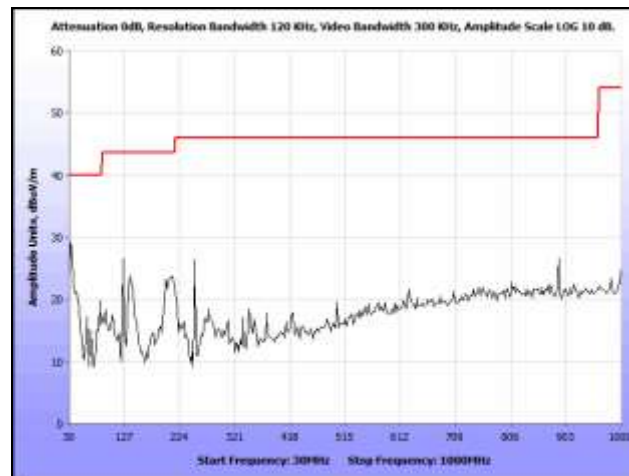
Plot 109. Radiated Spurious Emissions, Low Channel, 802.11g, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



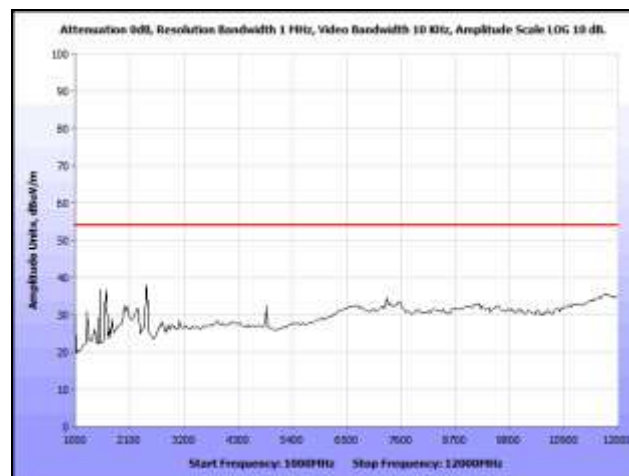
Plot 110. Radiated Spurious Emissions, Low Channel, 802.11g, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



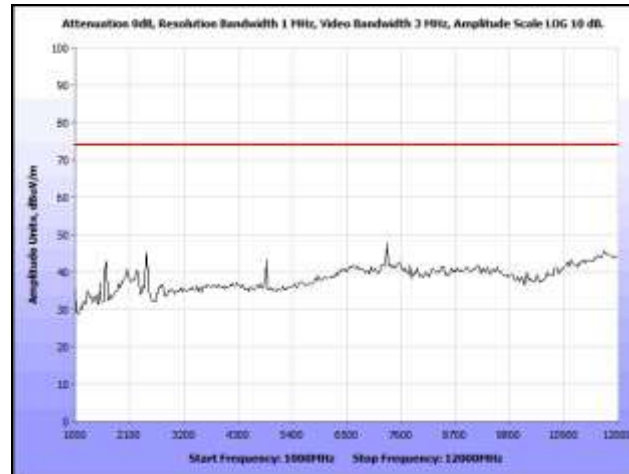
Plot 111. Radiated Spurious Emissions, Low Channel, 802.11g, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



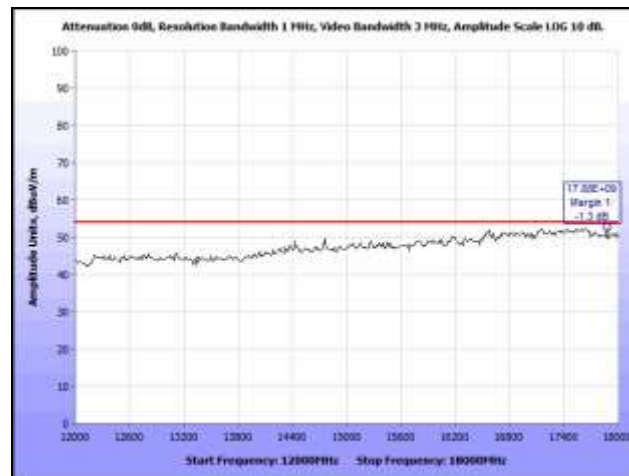
Plot 112. Radiated Spurious Emissions, Mid Channel, 802.11g, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



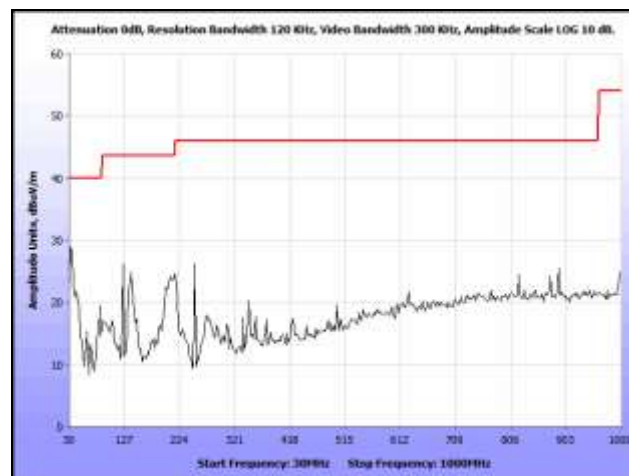
Plot 113. Radiated Spurious Emissions, Mid Channel, 802.11g, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



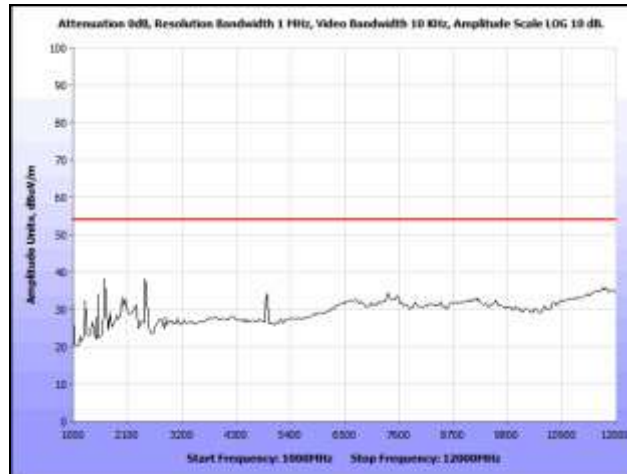
Plot 114. Radiated Spurious Emissions, Mid Channel, 802.11g, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



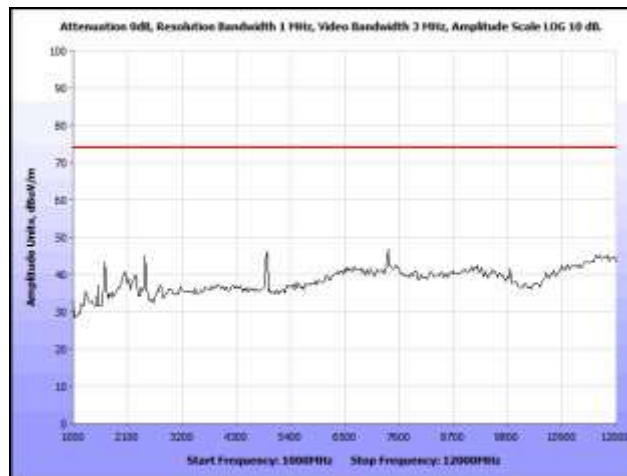
Plot 115. Radiated Spurious Emissions, Mid Channel, 802.11g, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



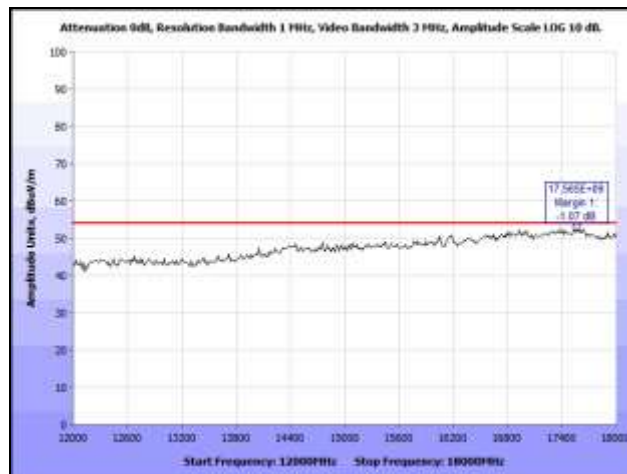
Plot 116. Radiated Spurious Emissions, High Channel, 802.11g, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



Plot 117. Radiated Spurious Emissions, High Channel, 802.11g, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz

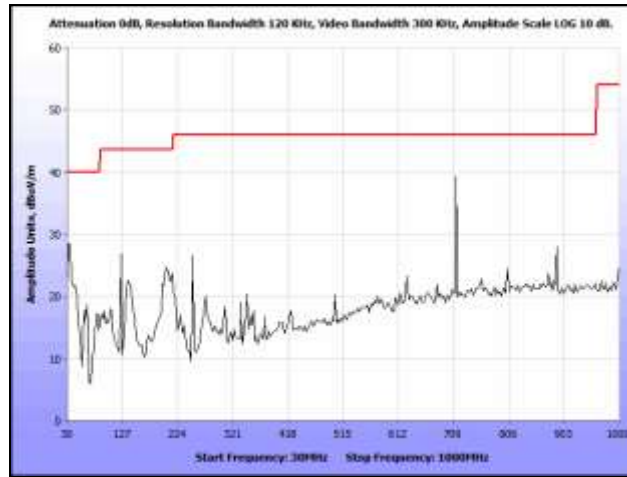


Plot 118. Radiated Spurious Emissions, High Channel, 802.11g, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz

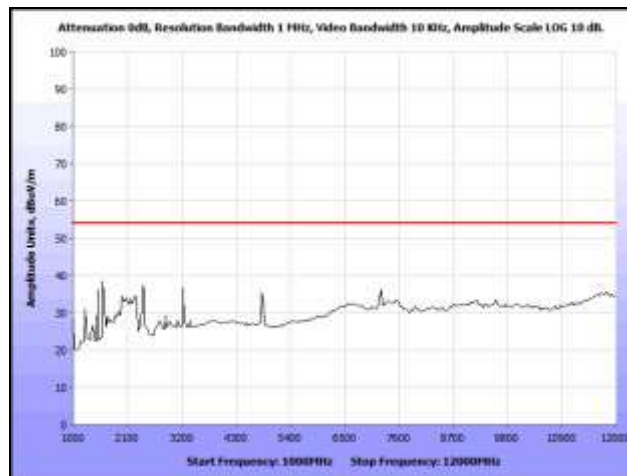


Plot 119. Radiated Spurious Emissions, High Channel, 802.11g, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz

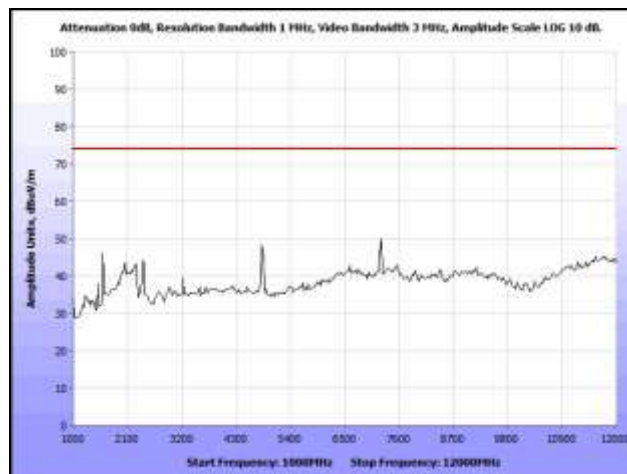
Radiated Spurious Emissions Test Results, 802.11n HT20, 6 dBi Omni Antenna, 2.4 GHz



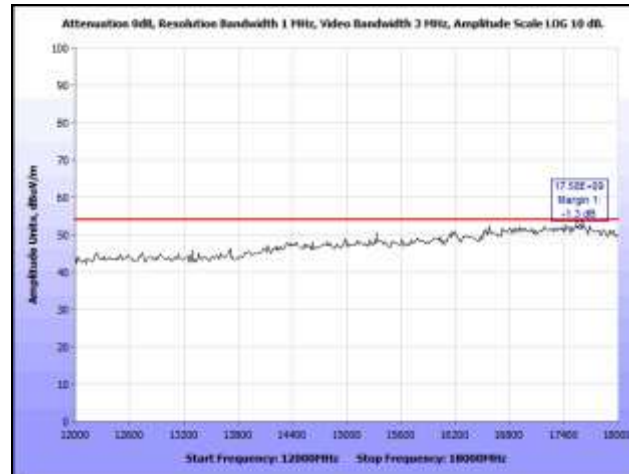
Plot 120. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



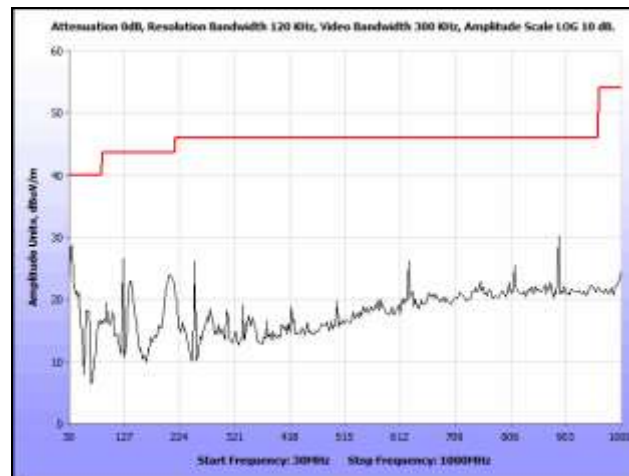
Plot 121. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



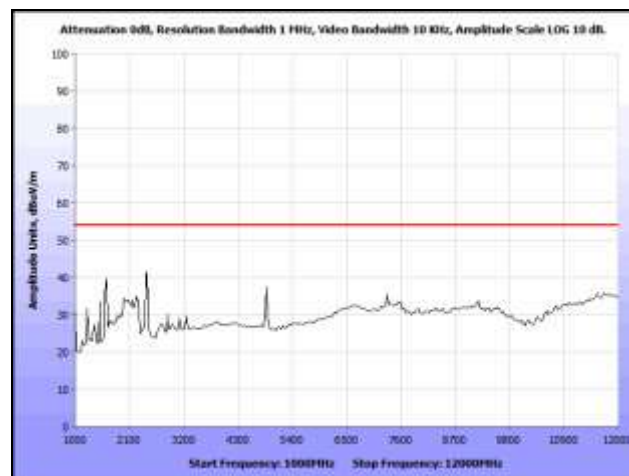
Plot 122. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



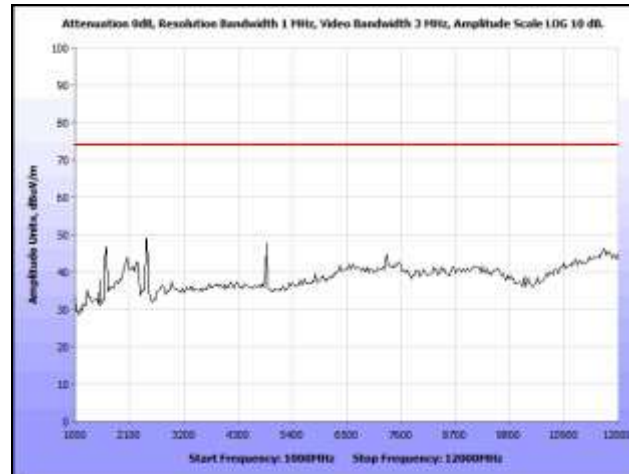
Plot 123. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



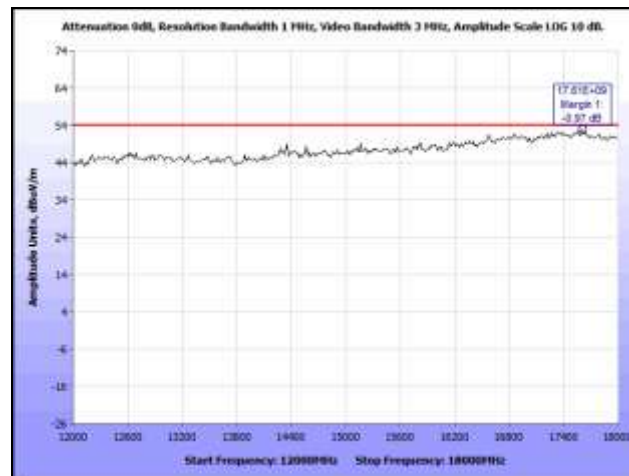
Plot 124. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



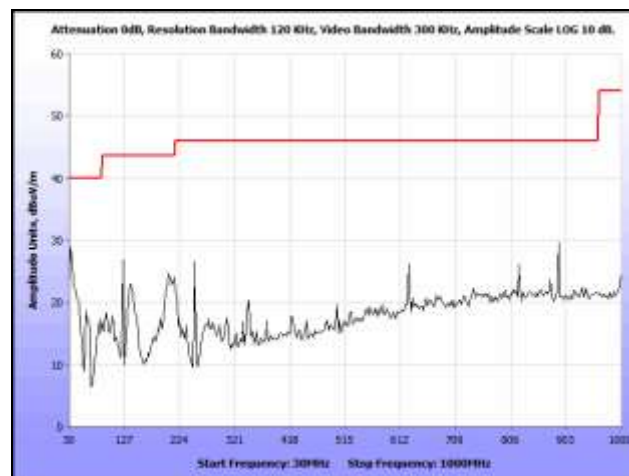
Plot 125. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



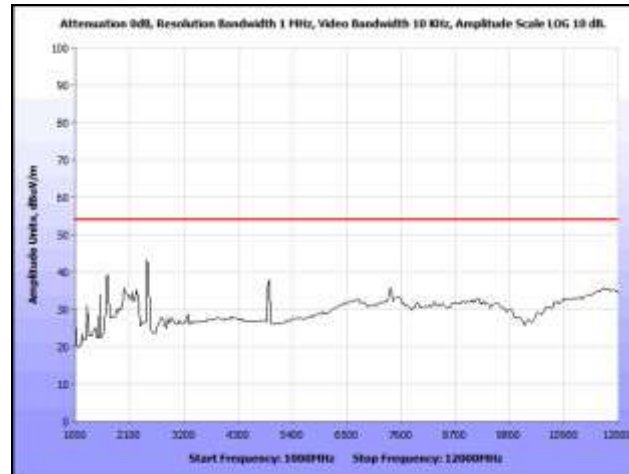
Plot 126. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



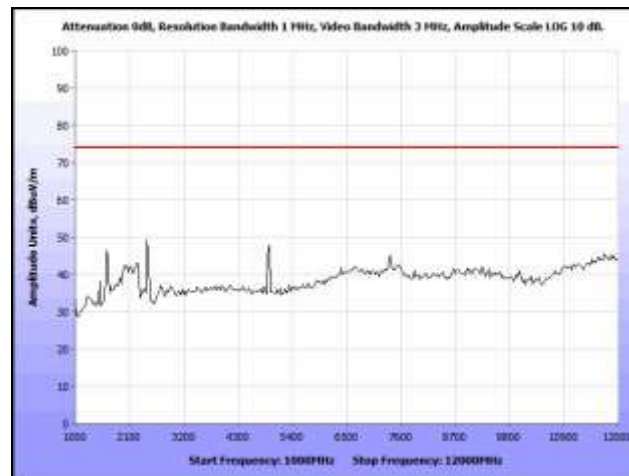
Plot 127. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



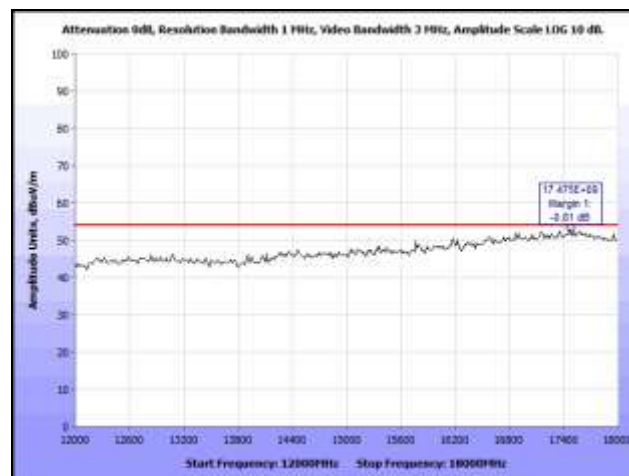
Plot 128. Radiated Spurious Emissions, High Channel, 802.11n HT20, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



Plot 129. Radiated Spurious Emissions, High Channel, 802.11n HT20, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz

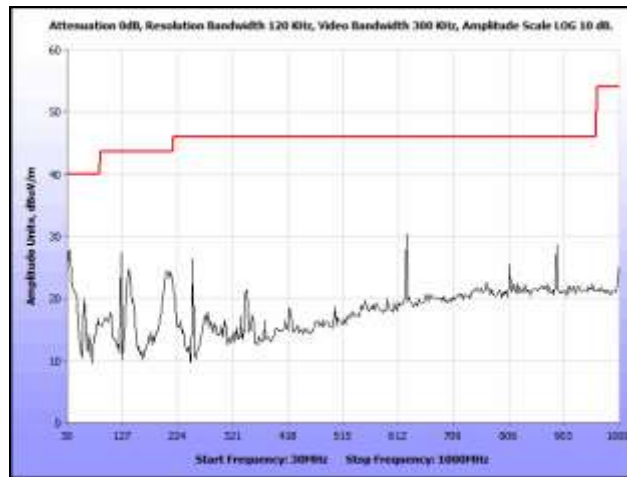


Plot 130. Radiated Spurious Emissions, High Channel, 802.11n HT20, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz

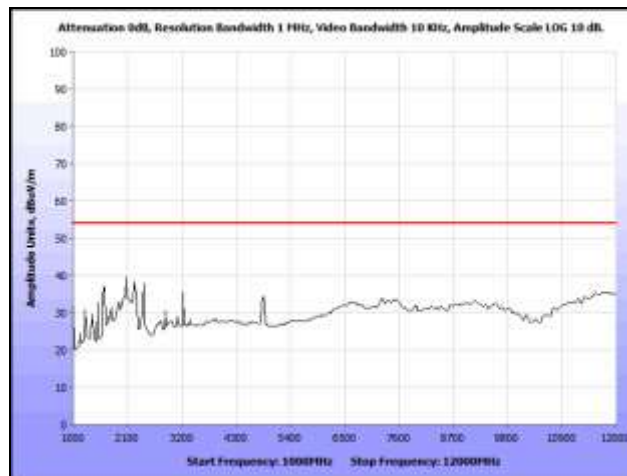


Plot 131. Radiated Spurious Emissions, High Channel, 802.11n HT20, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz

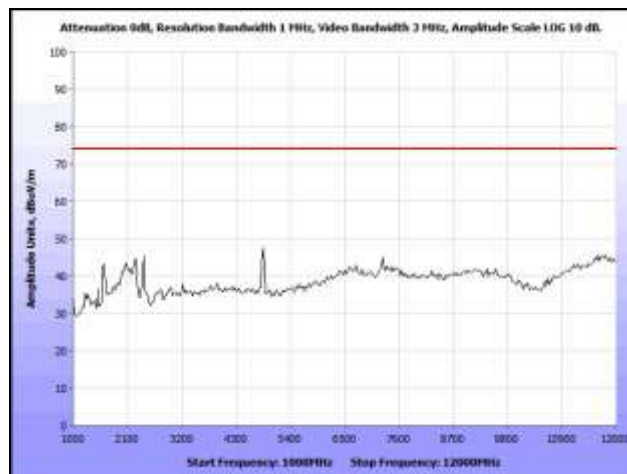
Radiated Spurious Emissions Test Results, 802.11n HT40, 6 dBi Omni Antenna, 2.4 GHz



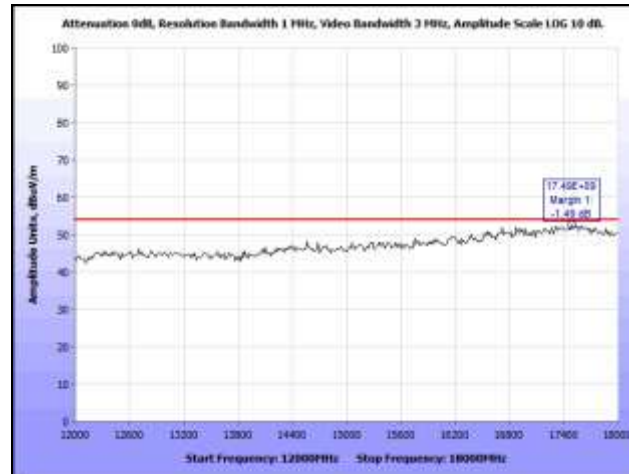
Plot 132. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



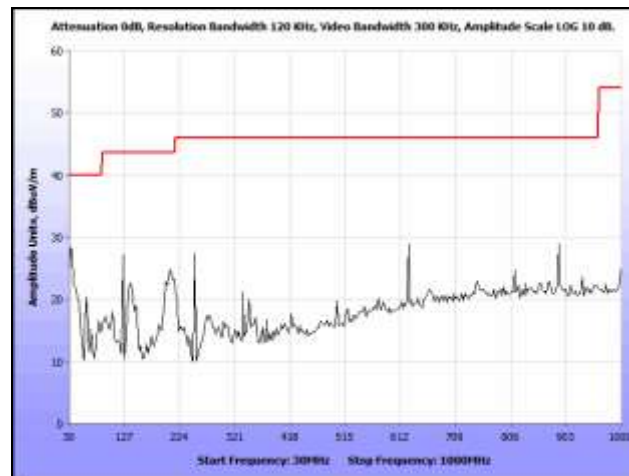
Plot 133. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



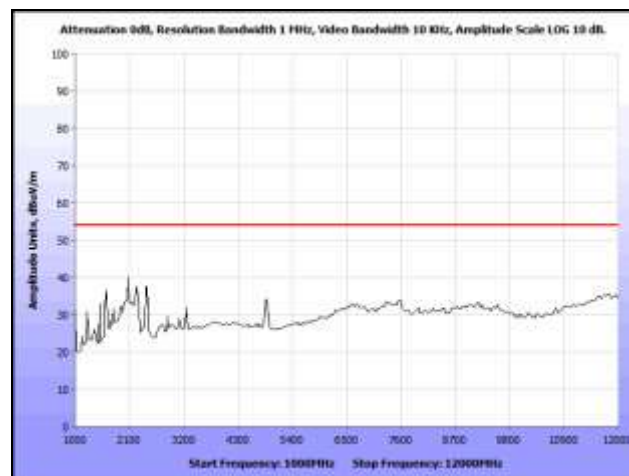
Plot 134. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



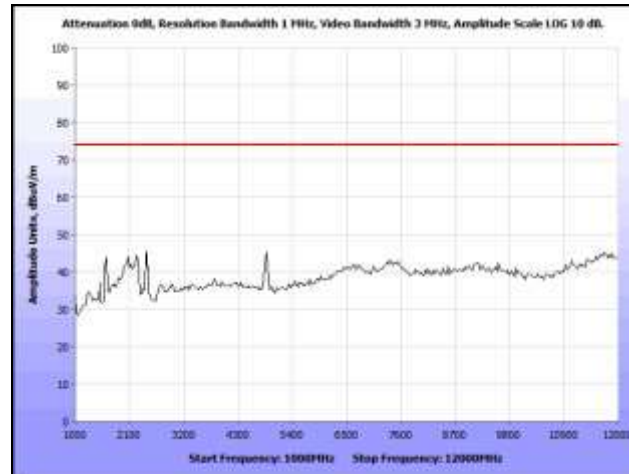
Plot 135. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



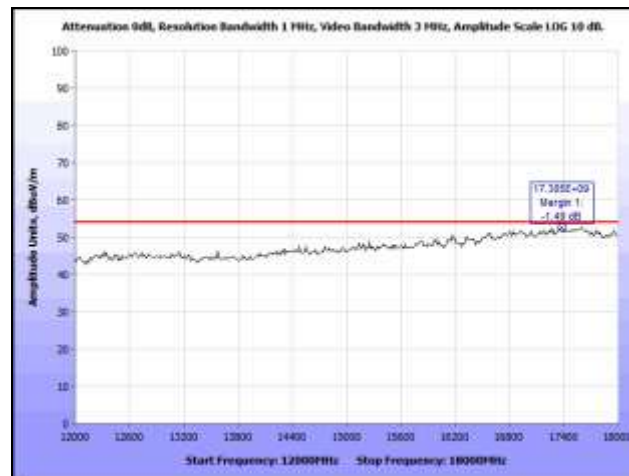
Plot 136. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



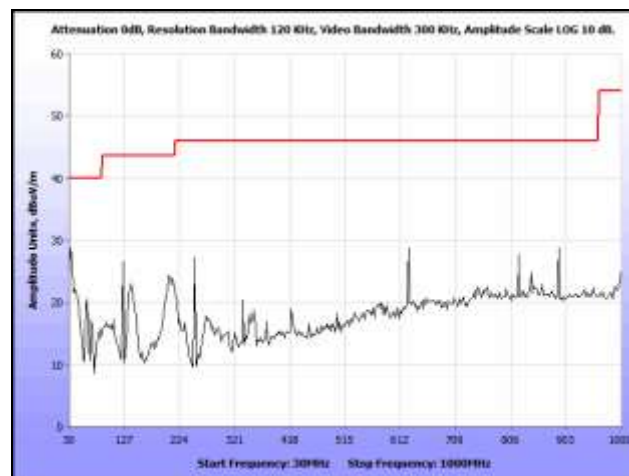
Plot 137. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz



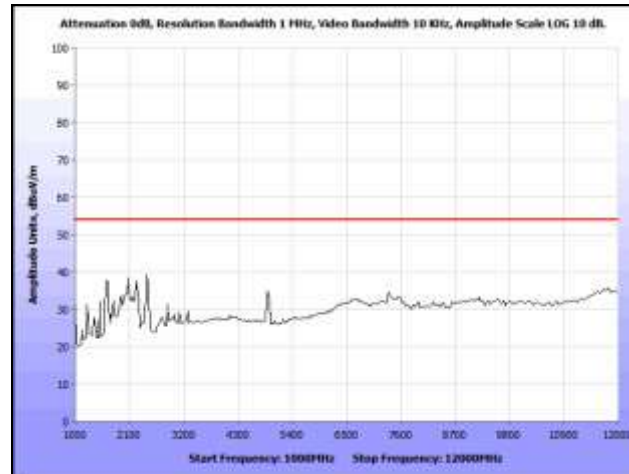
Plot 138. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz



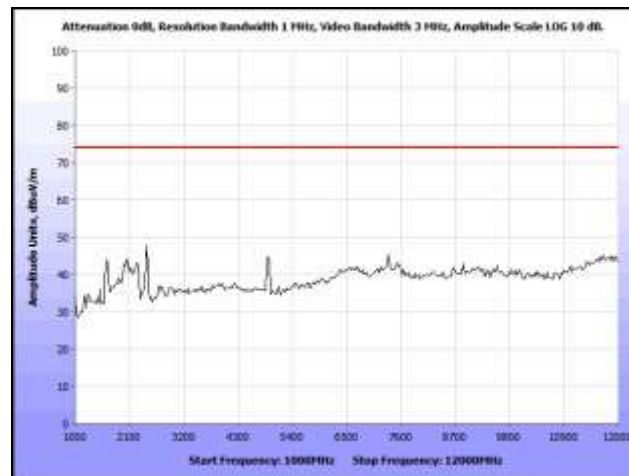
Plot 139. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz



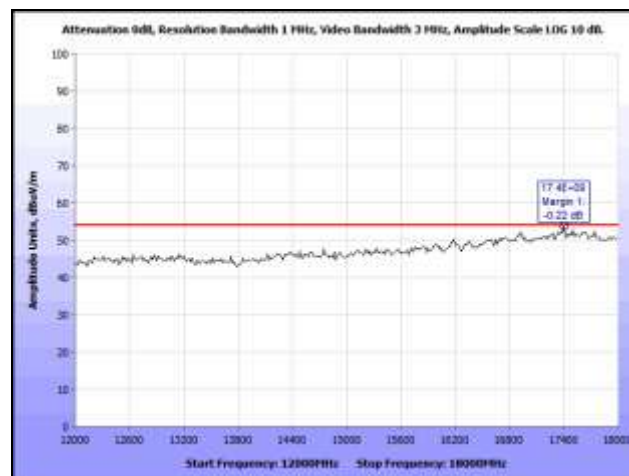
Plot 140. Radiated Spurious Emissions, High Channel, 802.11n HT40, 6 dBi Omni, 30 MHz – 1 GHz, 2.4 GHz



Plot 141. Radiated Spurious Emissions, High Channel, 802.11n HT40, 6 dBi Omni, 1 – 12 GHz, Avg., 2.4 GHz

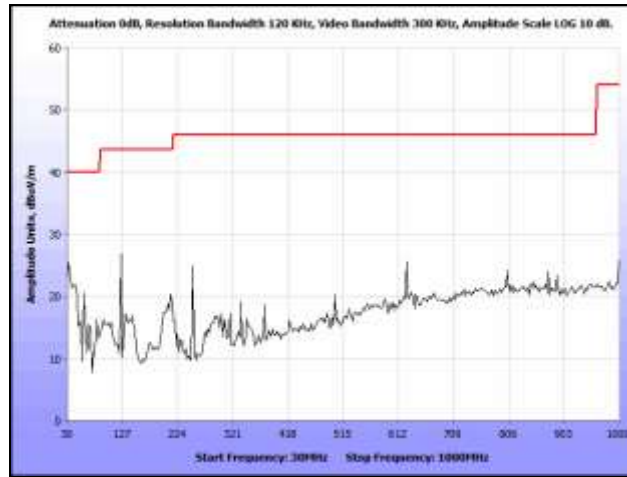


Plot 142. Radiated Spurious Emissions, High Channel, 802.11n HT40, 6 dBi Omni, 1 – 12 GHz, Peak, 2.4 GHz

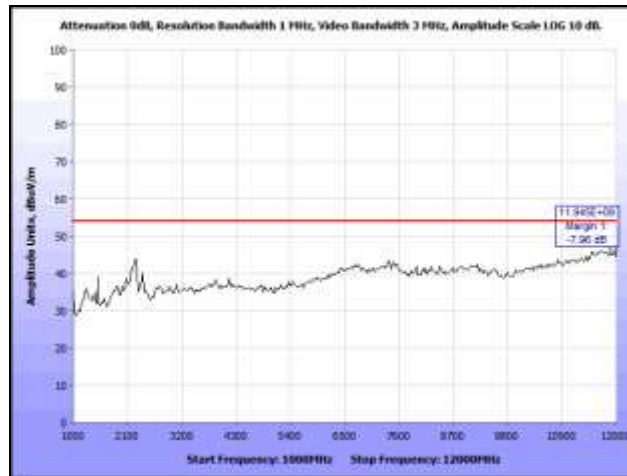


Plot 143. Radiated Spurious Emissions, High Channel, 802.11n HT40, 6 dBi Omni, 12 – 18 GHz, 2.4 GHz

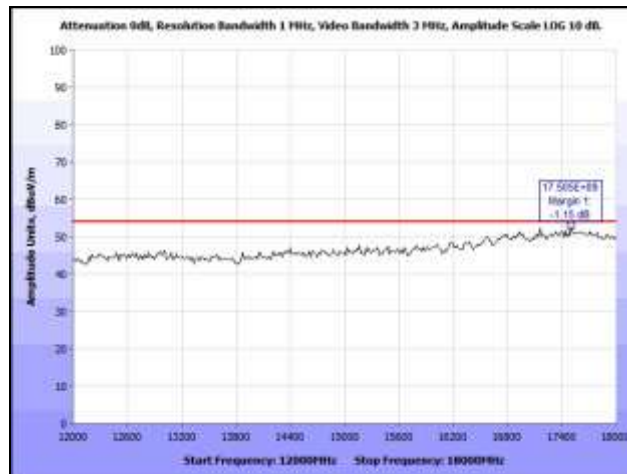
Radiated Spurious Emissions Test Results, 802.11b, 6 dBi Patch Antenna, 2.4 GHz



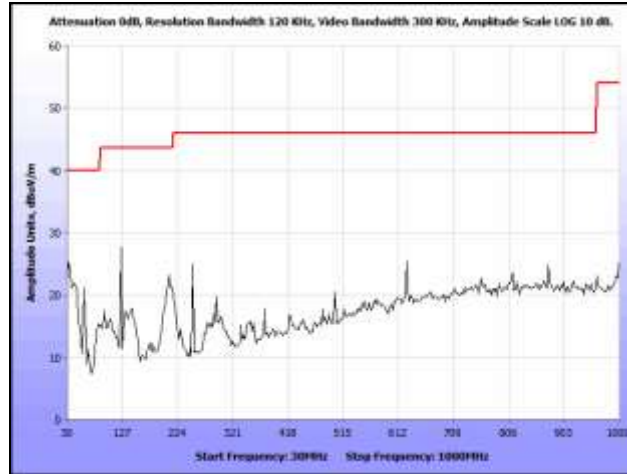
Plot 144. Radiated Spurious Emissions, Low Channel, 802.11b, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



Plot 145. Radiated Spurious Emissions, Low Channel, 802.11b, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



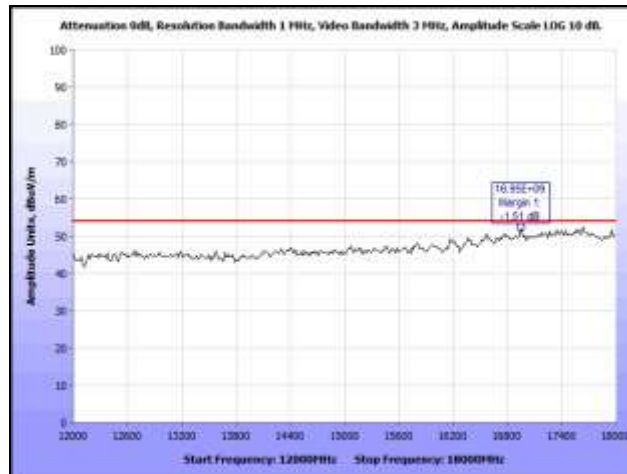
Plot 146. Radiated Spurious Emissions, Low Channel, 802.11b, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



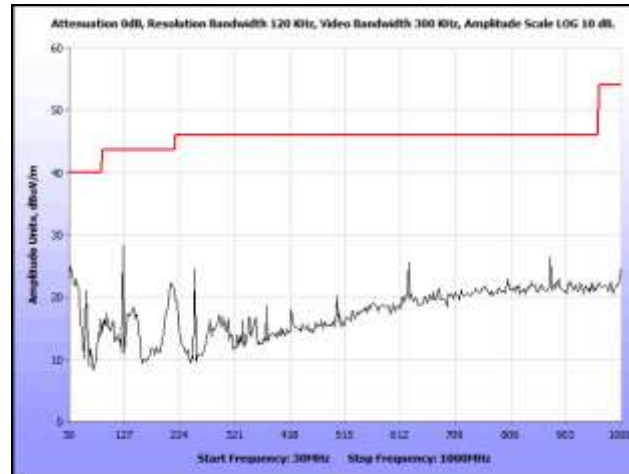
Plot 147. Radiated Spurious Emissions, Mid Channel, 802.11b, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



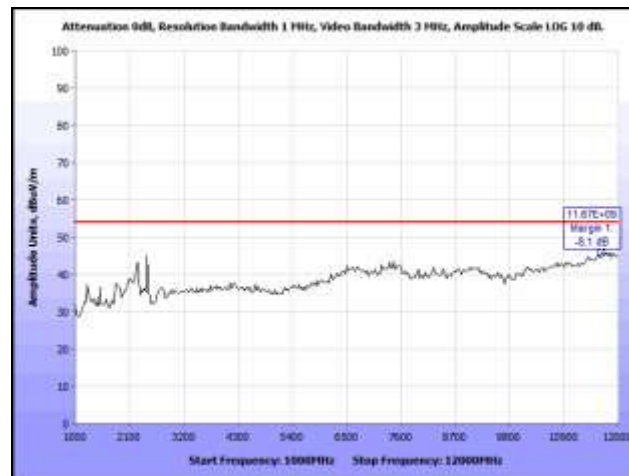
Plot 148. Radiated Spurious Emissions, Mid Channel, 802.11b, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



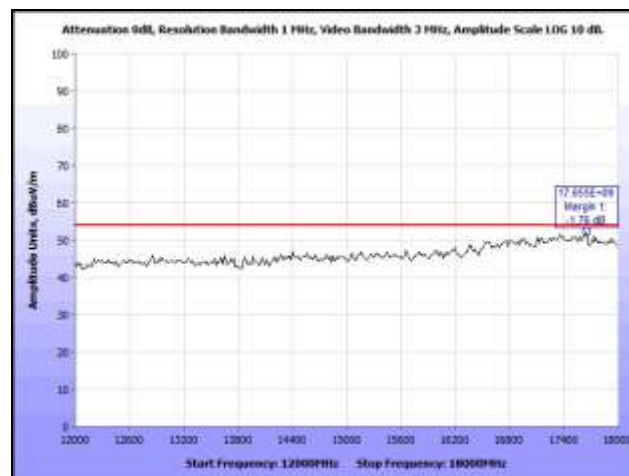
Plot 149. Radiated Spurious Emissions, Mid Channel, 802.11b, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



Plot 150. Radiated Spurious Emissions, High Channel, 802.11b, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz

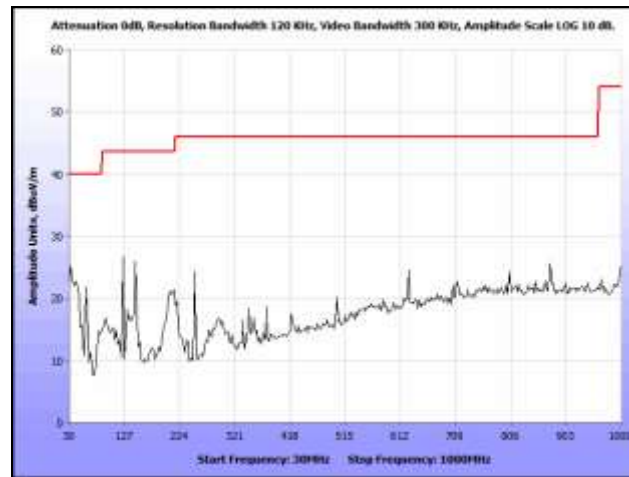


Plot 151. Radiated Spurious Emissions, High Channel, 802.11b, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz

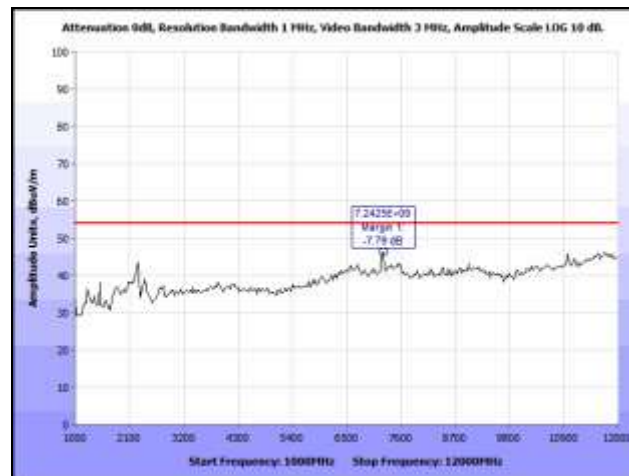


Plot 152. Radiated Spurious Emissions, High Channel, 802.11b, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz

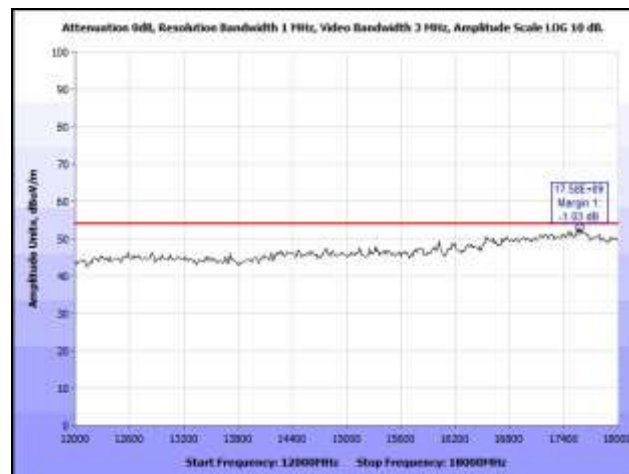
Radiated Spurious Emissions Test Results, 802.11g, 6 dBi Patch Antenna, 2.4 GHz



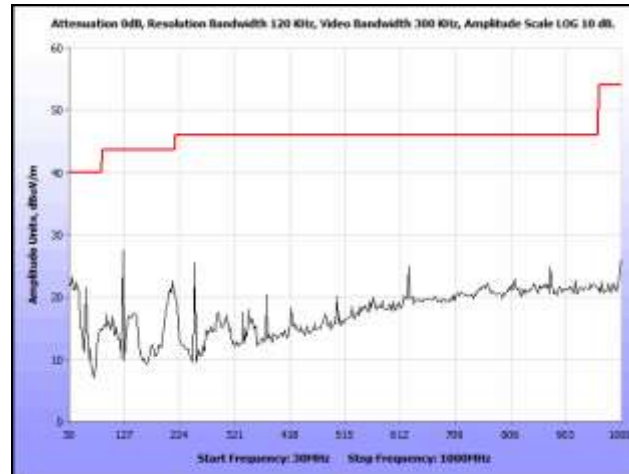
Plot 153. Radiated Spurious Emissions, Low Channel, 802.11g, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



Plot 154. Radiated Spurious Emissions, Low Channel, 802.11g, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



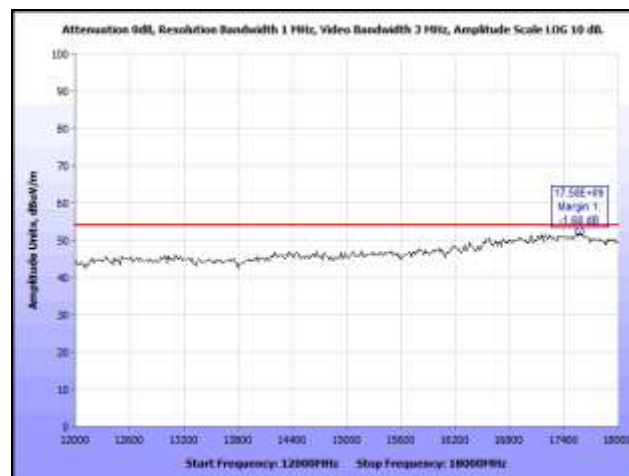
Plot 155. Radiated Spurious Emissions, Low Channel, 802.11g, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



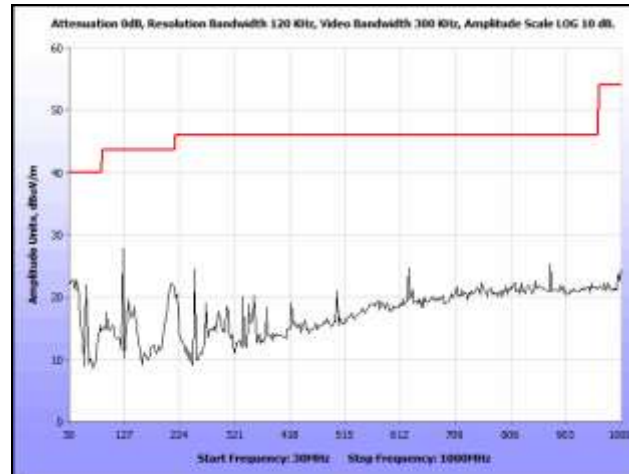
Plot 156. Radiated Spurious Emissions, Mid Channel, 802.11g, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



Plot 157. Radiated Spurious Emissions, Mid Channel, 802.11g, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



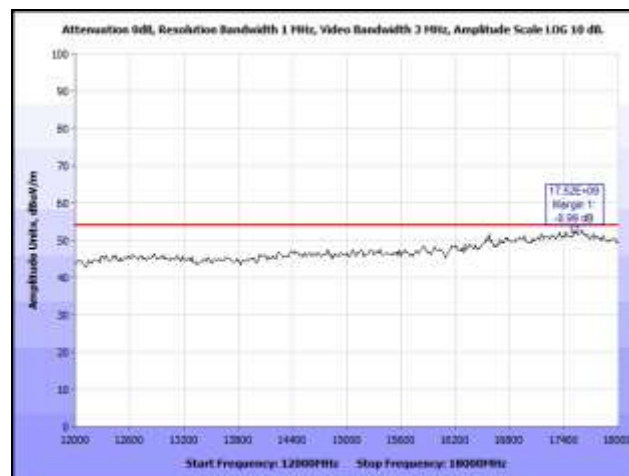
Plot 158. Radiated Spurious Emissions, Mid Channel, 802.11g, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



Plot 159. Radiated Spurious Emissions, High Channel, 802.11g, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz

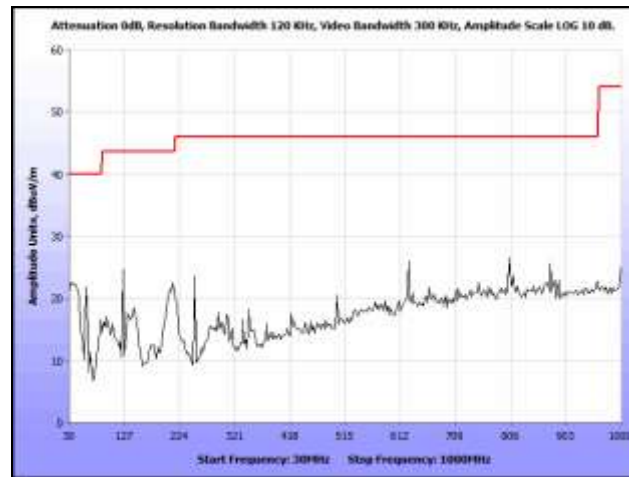


Plot 160. Radiated Spurious Emissions, High Channel, 802.11g, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



Plot 161. Radiated Spurious Emissions, High Channel, 802.11g, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz

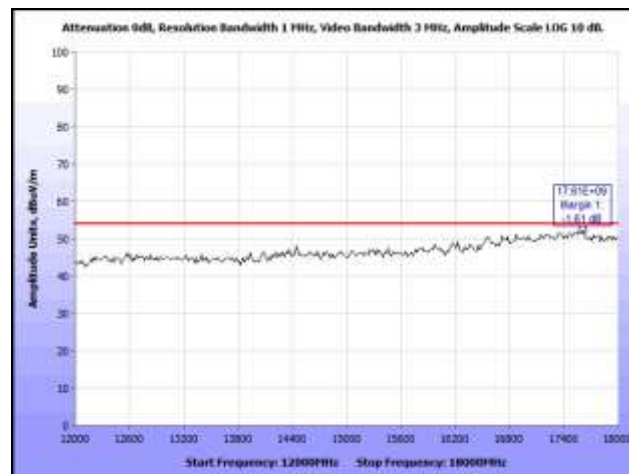
Radiated Spurious Emissions Test Results, 802.11n HT20, 6 dBi Patch Antenna, 2.4 GHz



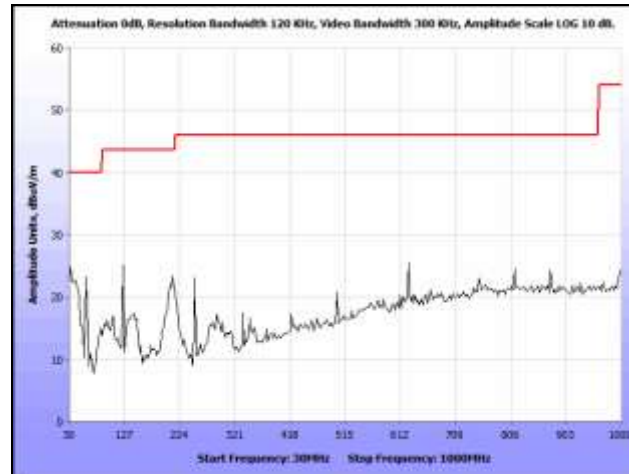
Plot 162. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



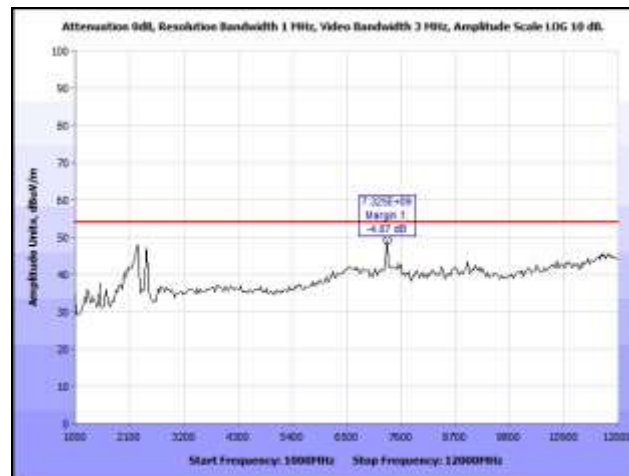
Plot 163. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



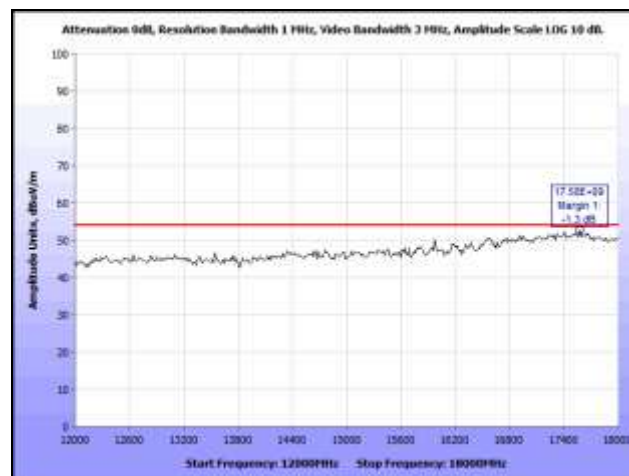
Plot 164. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



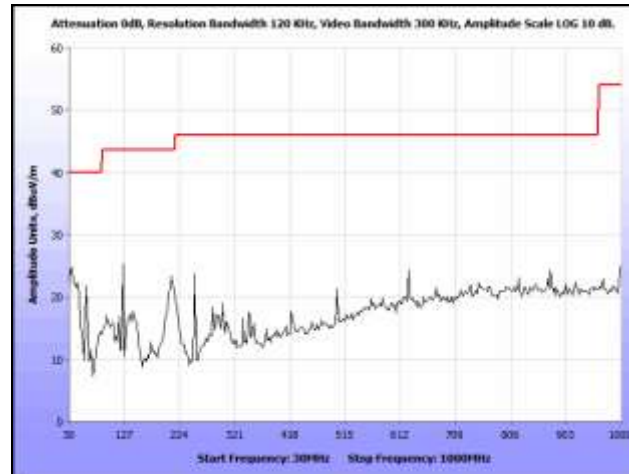
Plot 165. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



Plot 166. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



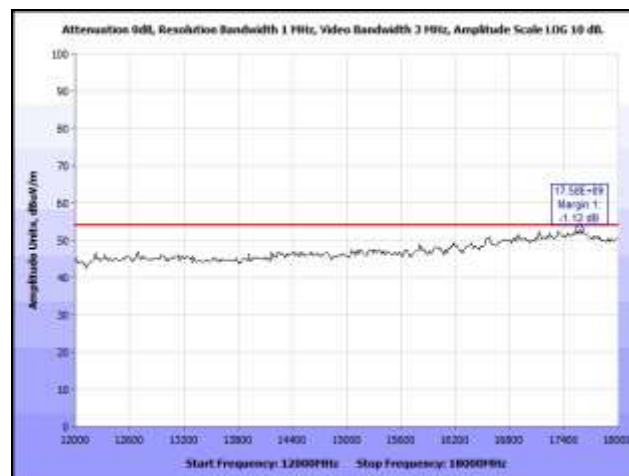
Plot 167. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



Plot 168. Radiated Spurious Emissions, High Channel, 802.11n HT20, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz

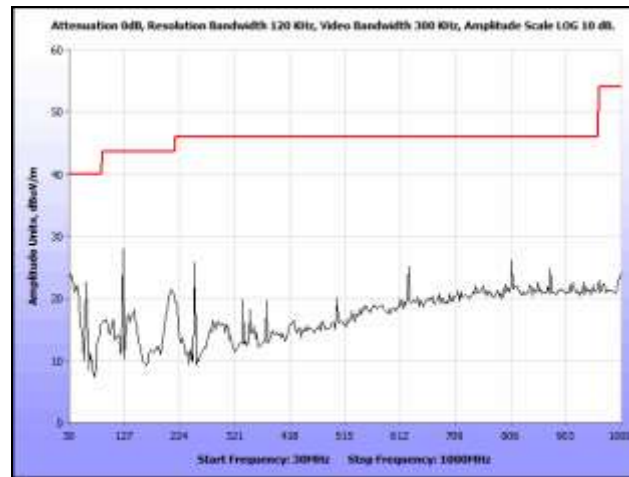


Plot 169. Radiated Spurious Emissions, High Channel, 802.11n HT20, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



Plot 170. Radiated Spurious Emissions, High Channel, 802.11n HT20, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz

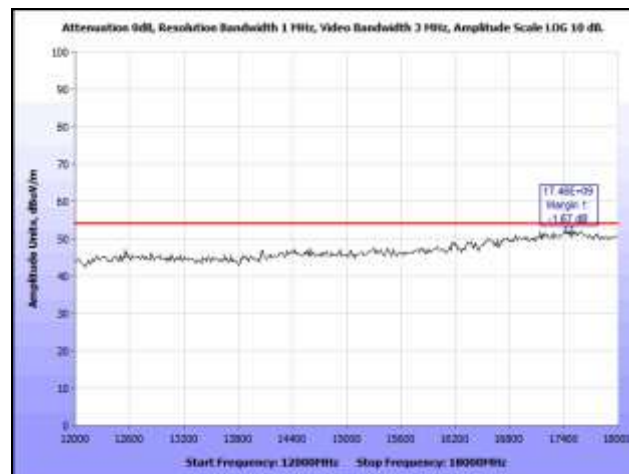
Radiated Spurious Emissions Test Results, 802.11n HT40, 6 dBi Patch Antenna, 2.4 GHz



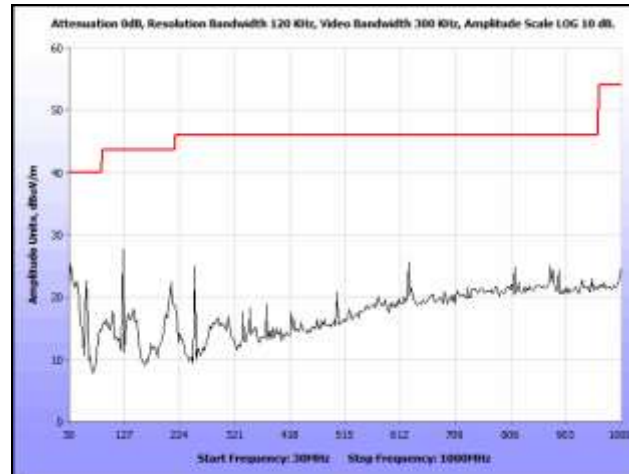
Plot 171. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



Plot 172. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



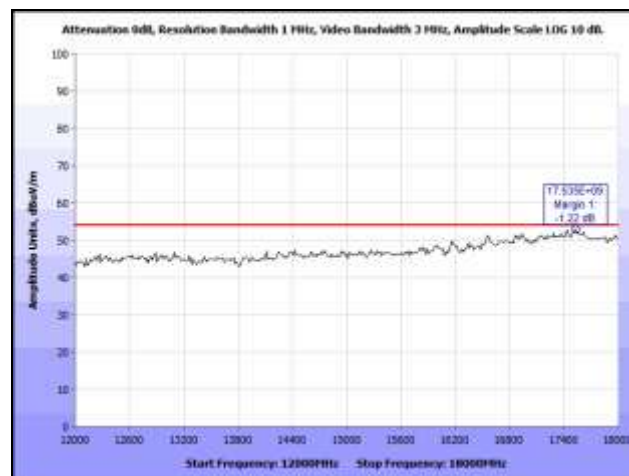
Plot 173. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



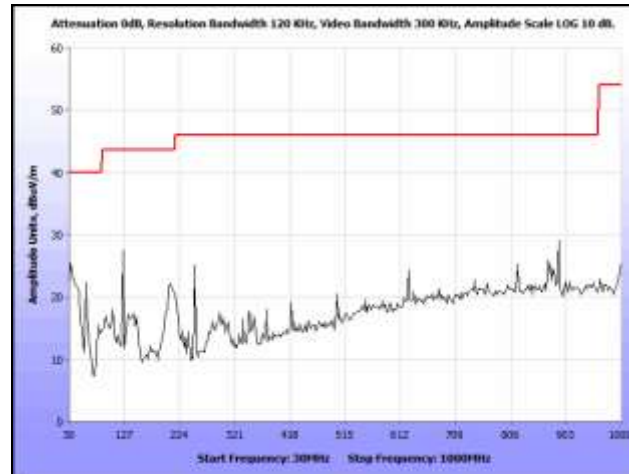
Plot 174. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz



Plot 175. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz



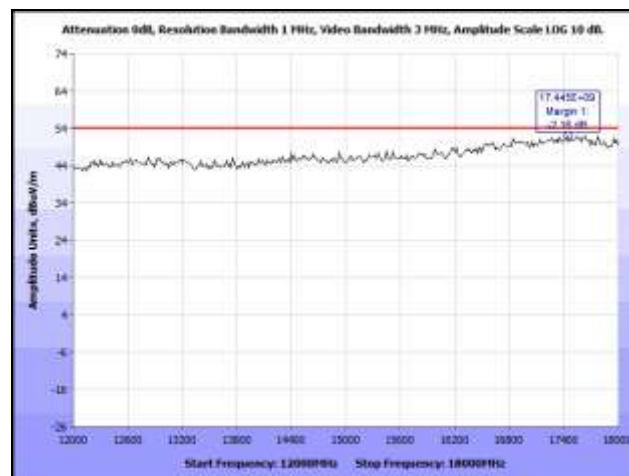
Plot 176. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz



Plot 177. Radiated Spurious Emissions, High Channel, 802.11n HT40, 6 dBi Patch, 30 MHz – 1 GHz, 2.4 GHz

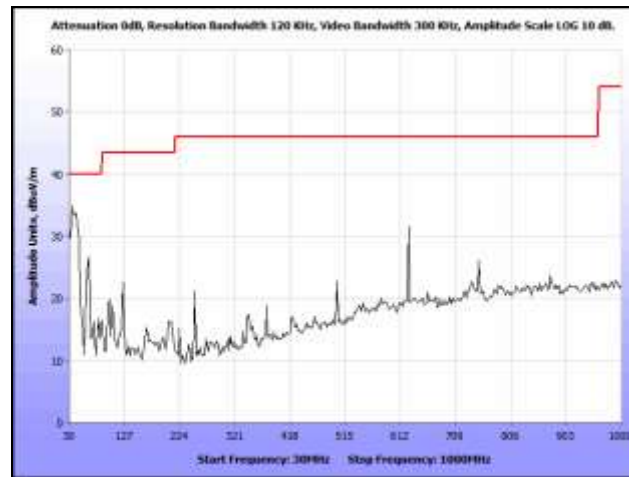


Plot 178. Radiated Spurious Emissions, High Channel, 802.11n HT40, 6 dBi Patch, 1 – 12 GHz, 2.4 GHz

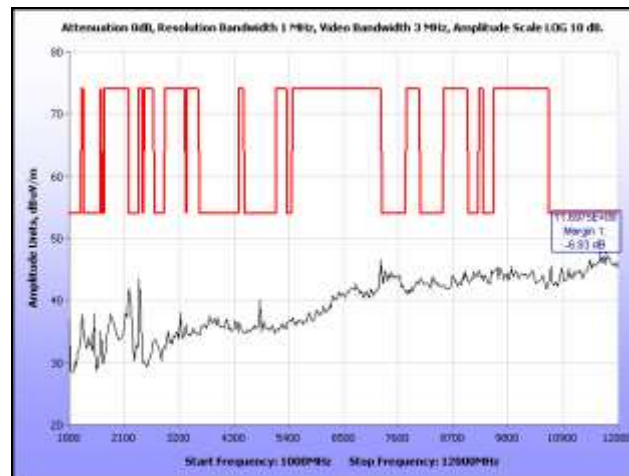


Plot 179. Radiated Spurious Emissions, High Channel, 802.11n HT40, 6 dBi Patch, 12 – 18 GHz, 2.4 GHz

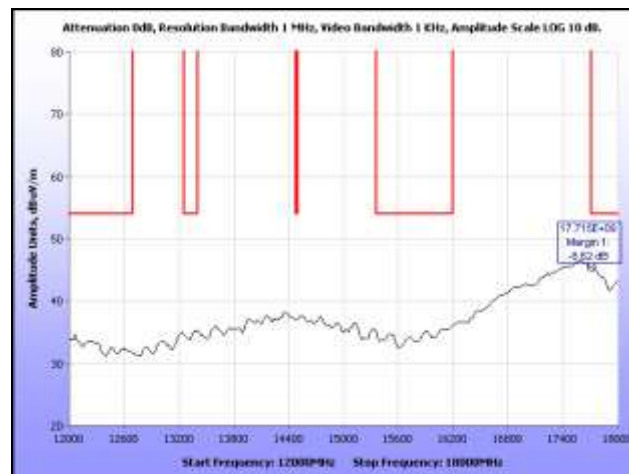
Radiated Spurious Emissions Test Results, 802.11b, 3 dBi Ceiling Mount Omni Antenna, 2.4 GHz



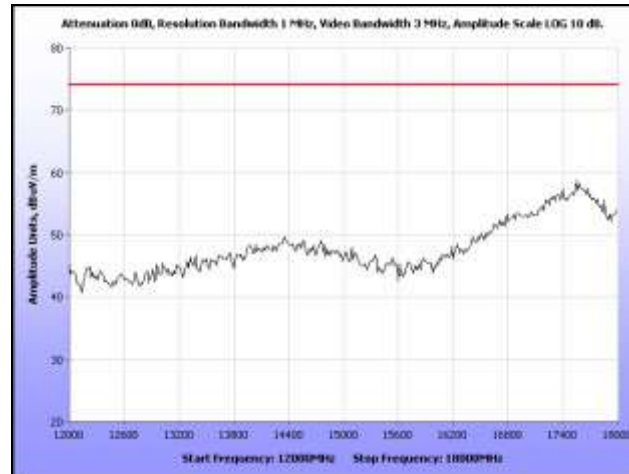
Plot 180. Radiated Spurious Emissions, Low Channel, 802.11b, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



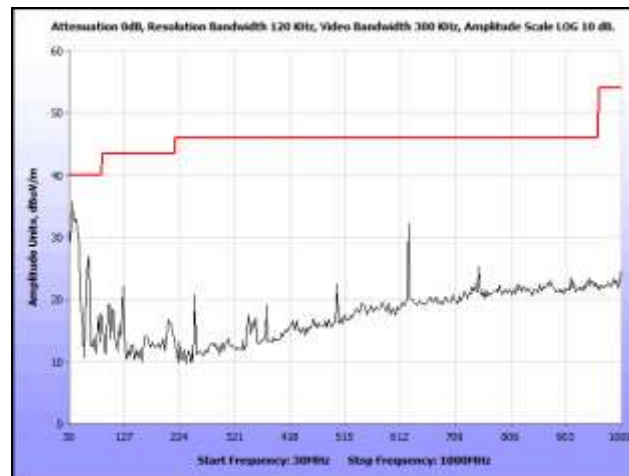
Plot 181. Radiated Spurious Emissions, Low Channel, 802.11b, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



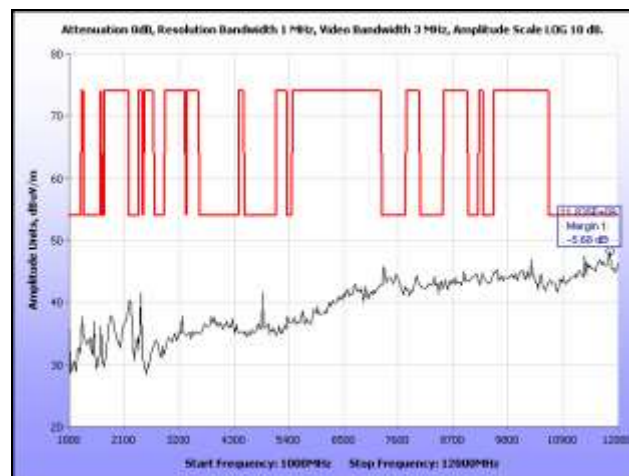
Plot 182. Radiated Spurious Emissions, Low Channel, 802.11b, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



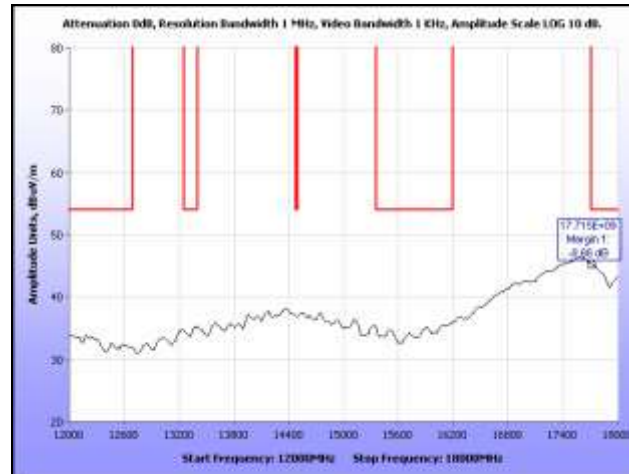
Plot 183. Radiated Spurious Emissions, Low Channel, 802.11b, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



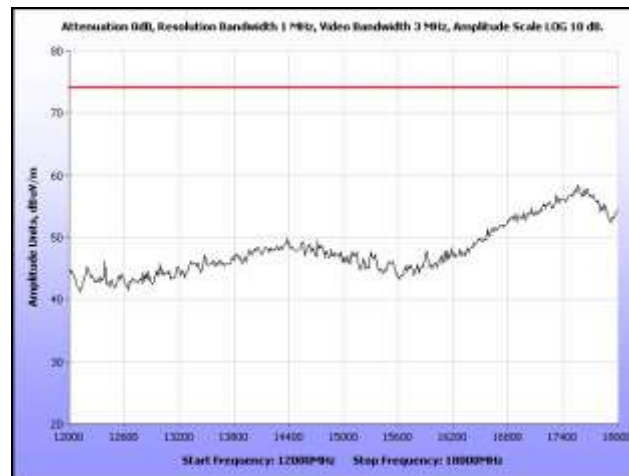
Plot 184. Radiated Spurious Emissions, Mid Channel, 802.11b, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



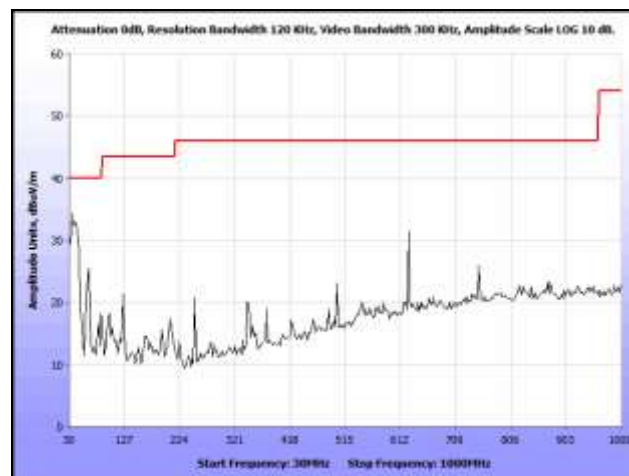
Plot 185. Radiated Spurious Emissions, Mid Channel, 802.11b, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



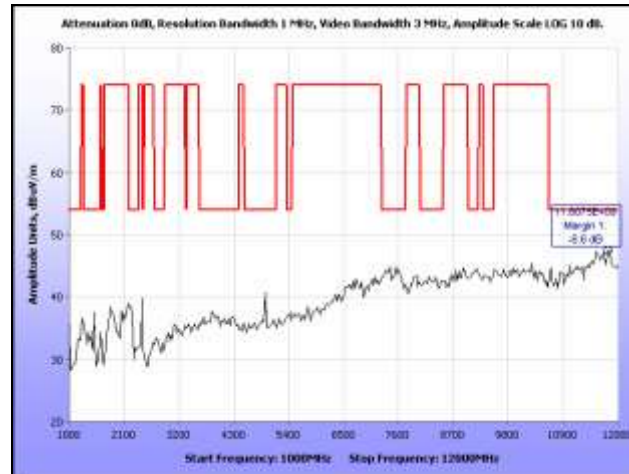
Plot 186. Radiated Spurious Emissions, Mid Channel, 802.11b, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



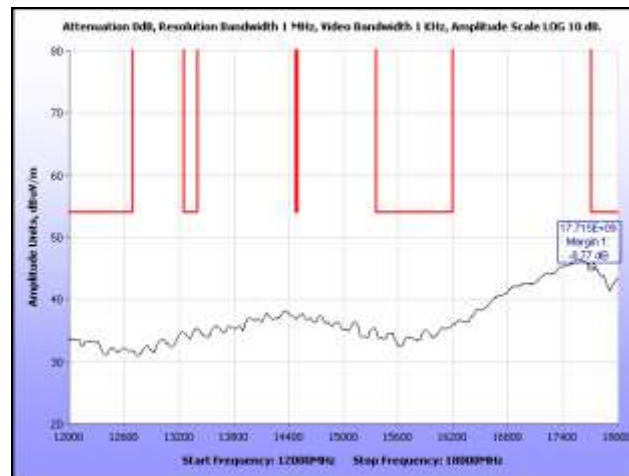
Plot 187. Radiated Spurious Emissions, Mid Channel, 802.11b, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



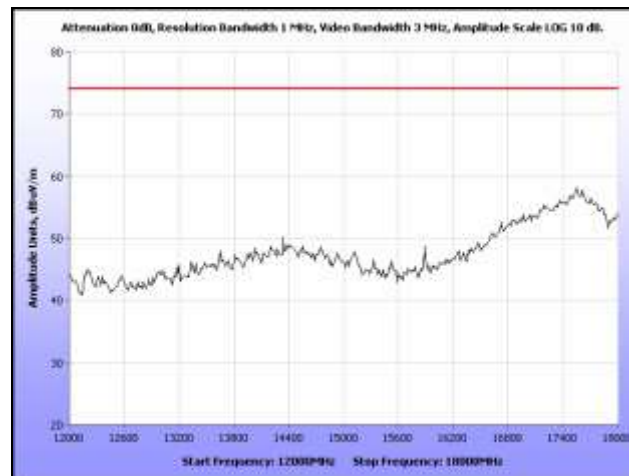
Plot 188. Radiated Spurious Emissions, High Channel, 802.11b, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



Plot 189. Radiated Spurious Emissions, High Channel, 802.11b, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz

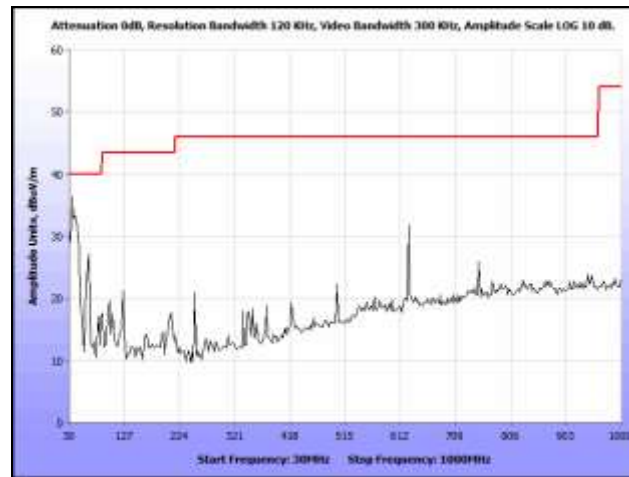


Plot 190. Radiated Spurious Emissions, High Channel, 802.11b, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz

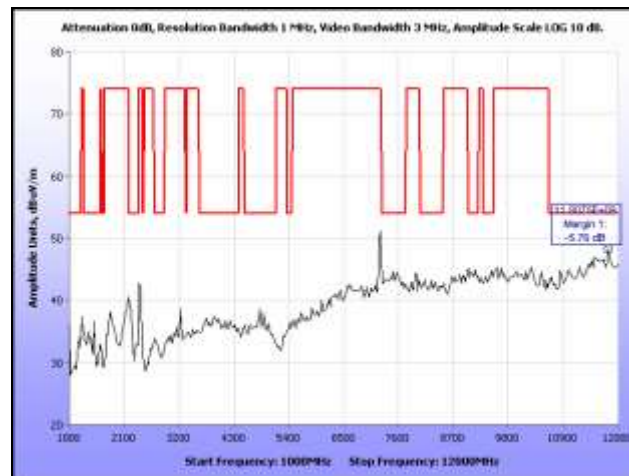


Plot 191. Radiated Spurious Emissions, High Channel, 802.11b, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz

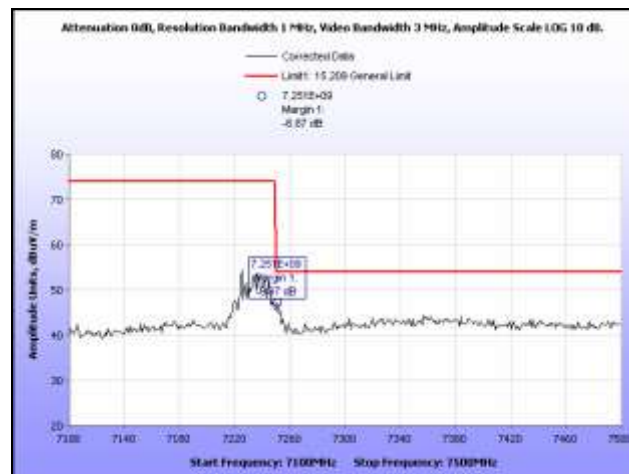
Radiated Spurious Emissions Test Results, 802.11g, 3 dBi Ceiling Mount Omni Antenna, 2.4 GHz



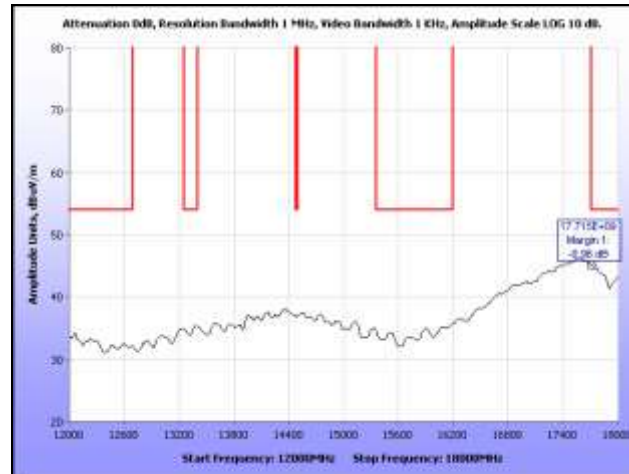
Plot 192. Radiated Spurious Emissions, Low Channel, 802.11g, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



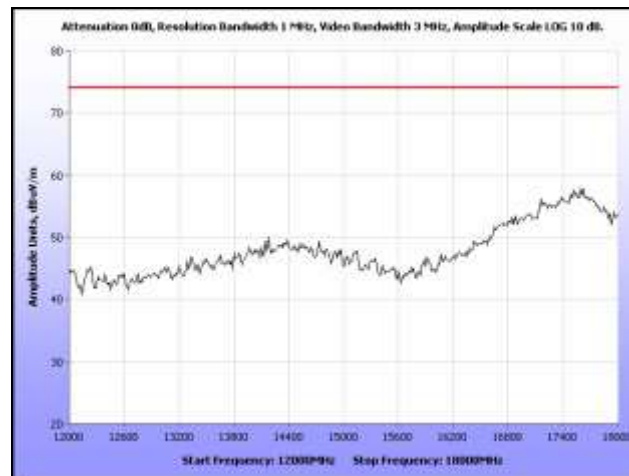
Plot 193. Radiated Spurious Emissions, Low Channel, 802.11g, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



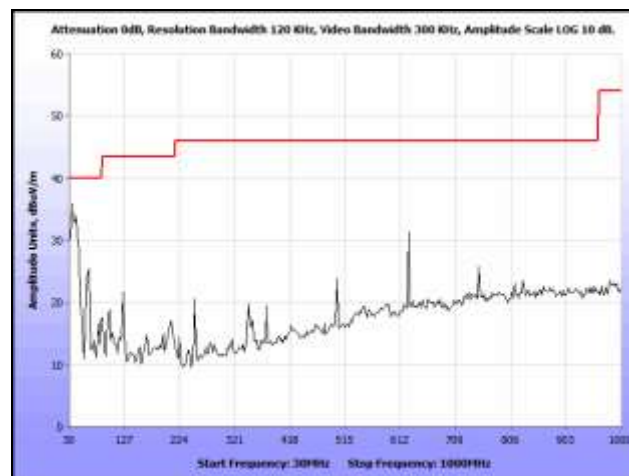
Plot 194. Radiated Spurious Emissions, Low Channel, 802.11g, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz



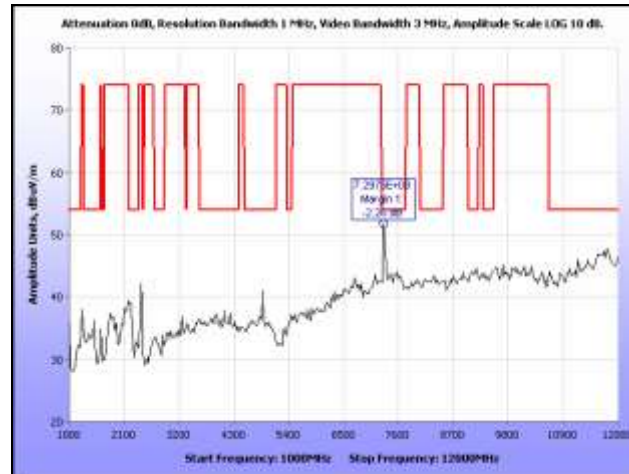
Plot 195. Radiated Spurious Emissions, Low Channel, 802.11g, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



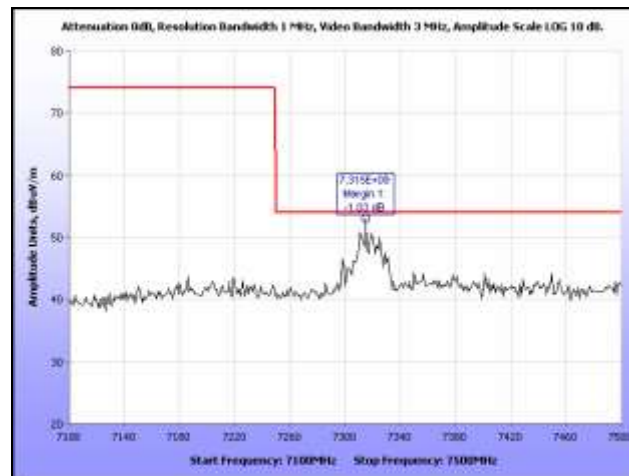
Plot 196. Radiated Spurious Emissions, Low Channel, 802.11g, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



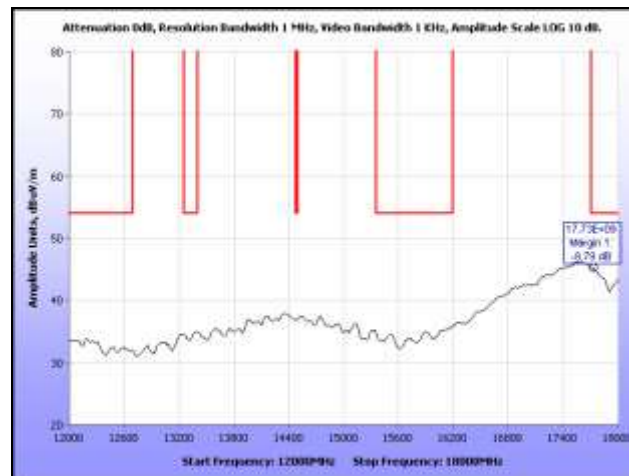
Plot 197. Radiated Spurious Emissions, Mid Channel, 802.11g, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



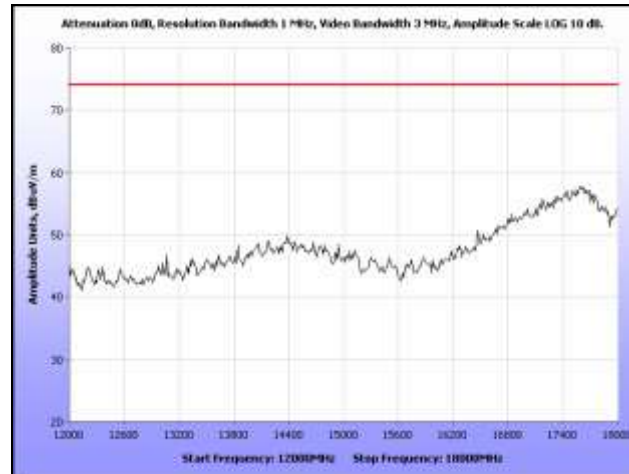
Plot 198. Radiated Spurious Emissions, Mid Channel, 802.11g, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



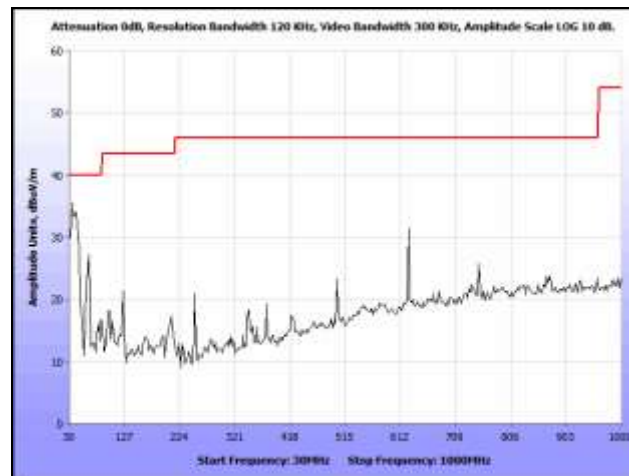
Plot 199. Radiated Spurious Emissions, Mid Channel, 802.11g, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz



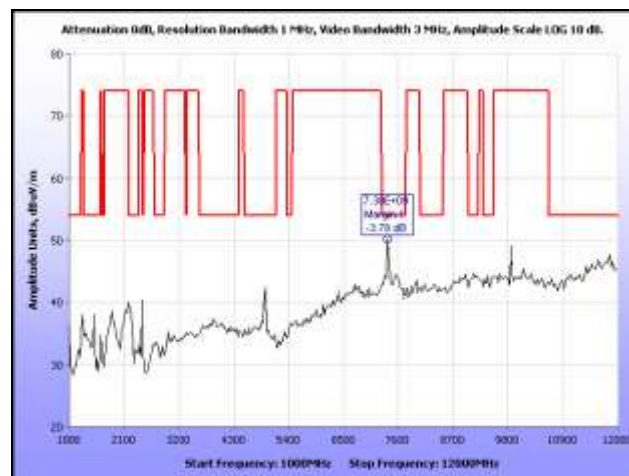
Plot 200. Radiated Spurious Emissions, Mid Channel, 802.11g, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



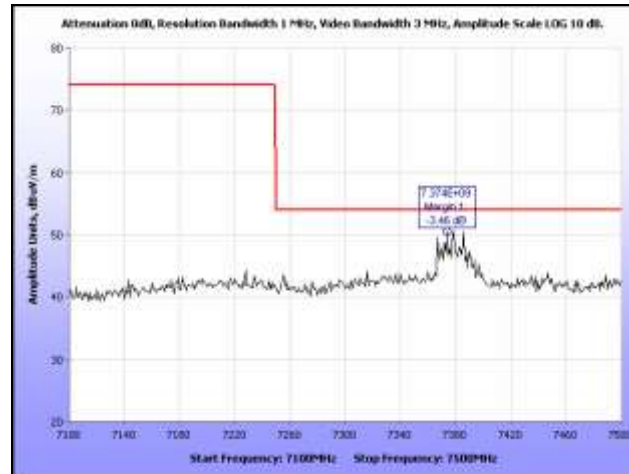
Plot 201. Radiated Spurious Emissions, Mid Channel, 802.11g, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



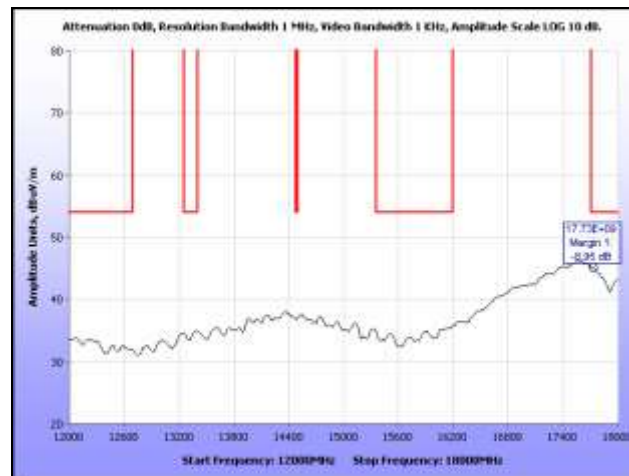
Plot 202. Radiated Spurious Emissions, High Channel, 802.11g, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



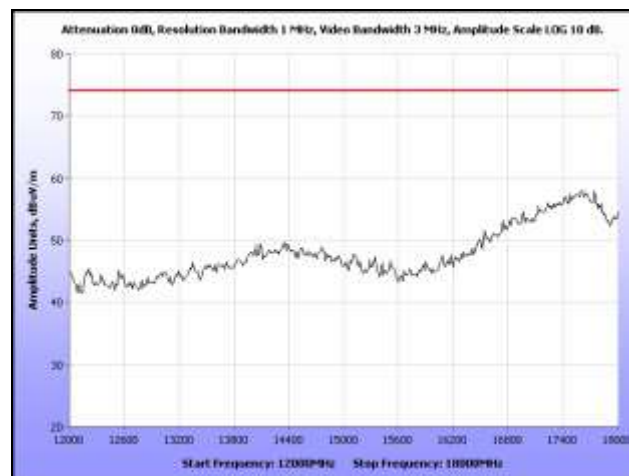
Plot 203. Radiated Spurious Emissions, High Channel, 802.11g, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



Plot 204. Radiated Spurious Emissions, High Channel, 802.11g, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz

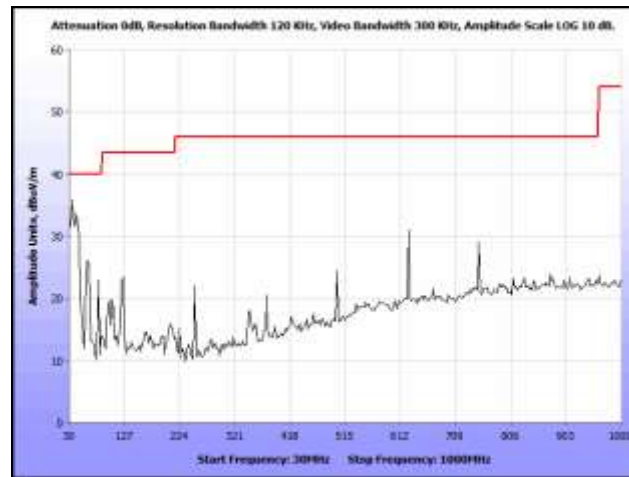


Plot 205. Radiated Spurious Emissions, High Channel, 802.11g, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz

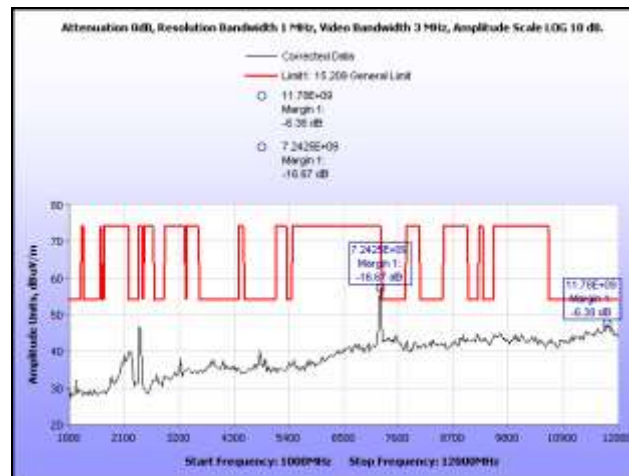


Plot 206. Radiated Spurious Emissions, High Channel, 802.11g, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz

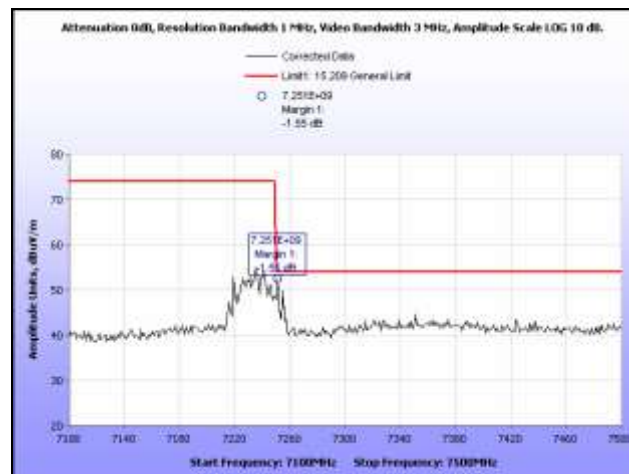
Radiated Spurious Emissions Test Results, 802.11n HT20, 3 dBi Ceiling Mount Omni Antenna, 2.4 GHz



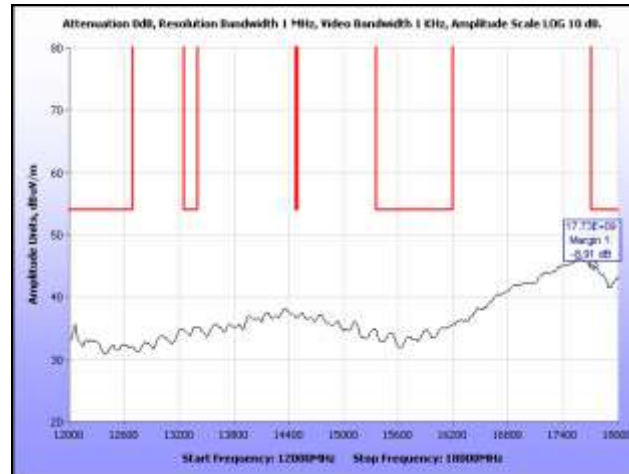
Plot 207. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



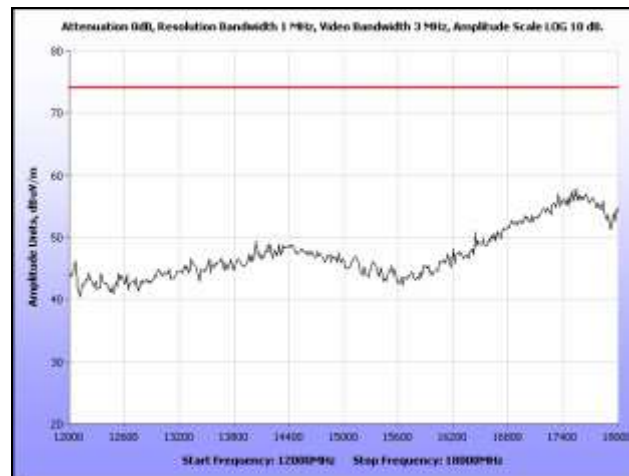
Plot 208. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



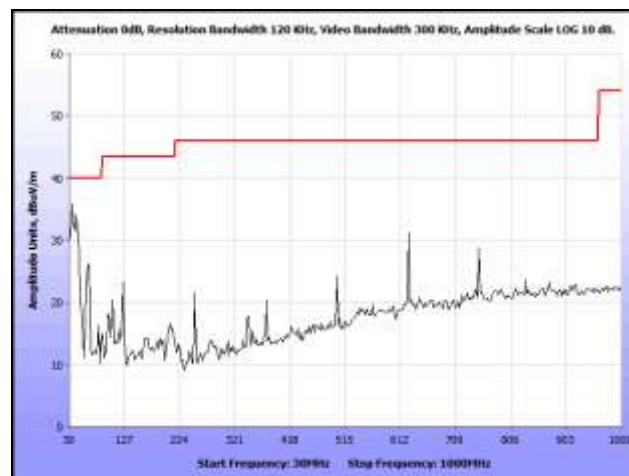
Plot 209. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz



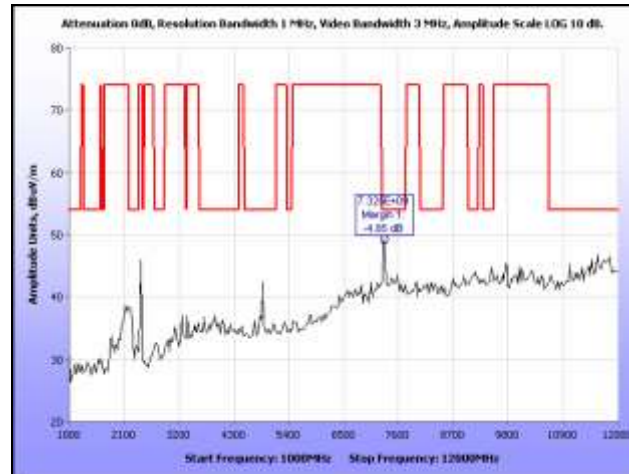
Plot 210. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



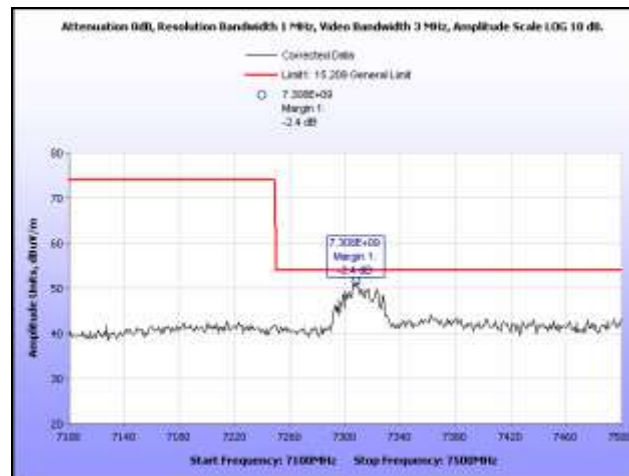
Plot 211. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



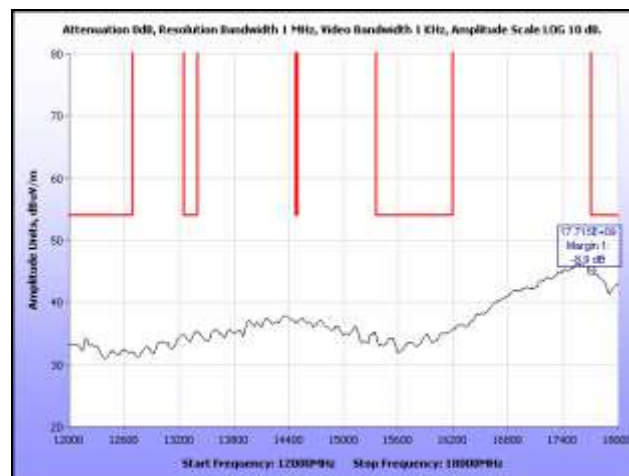
Plot 212. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



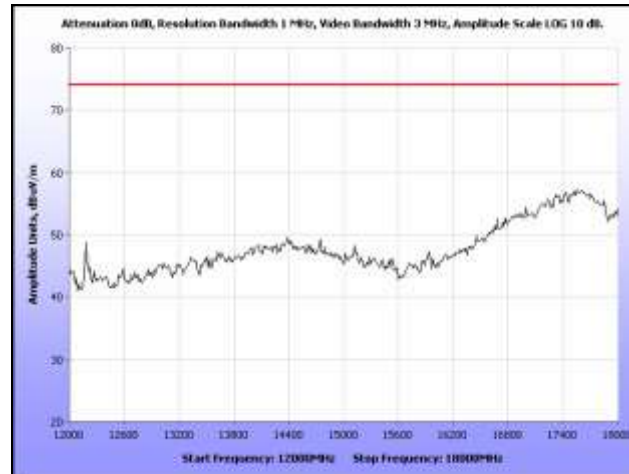
Plot 213. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



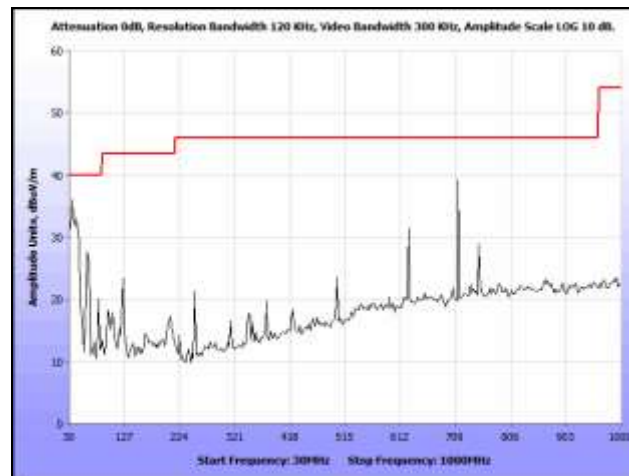
Plot 214. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz



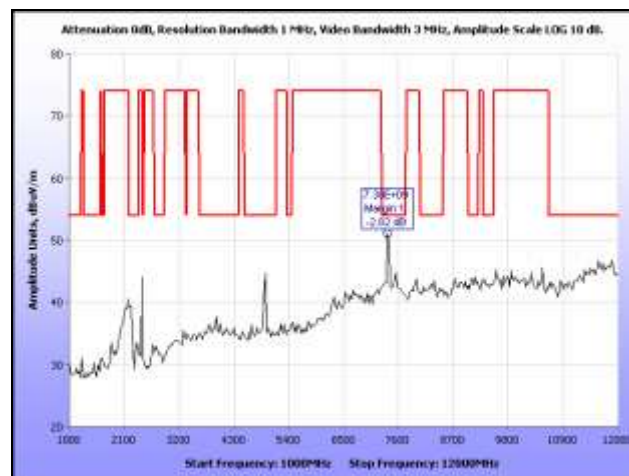
Plot 215. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



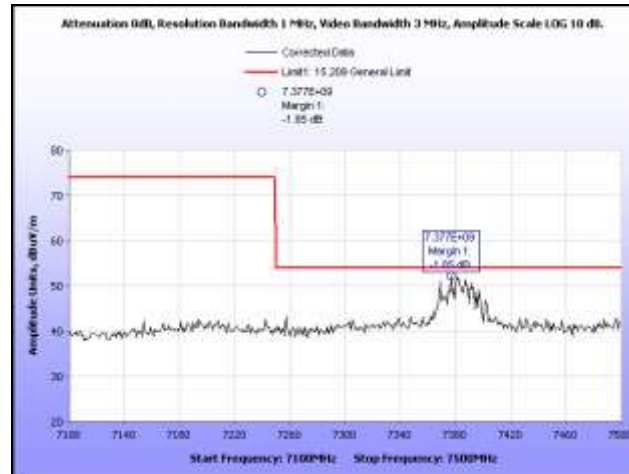
Plot 216. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



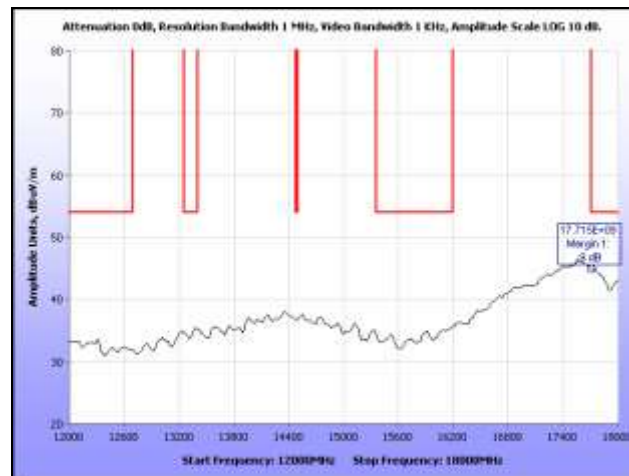
Plot 217. Radiated Spurious Emissions, High Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



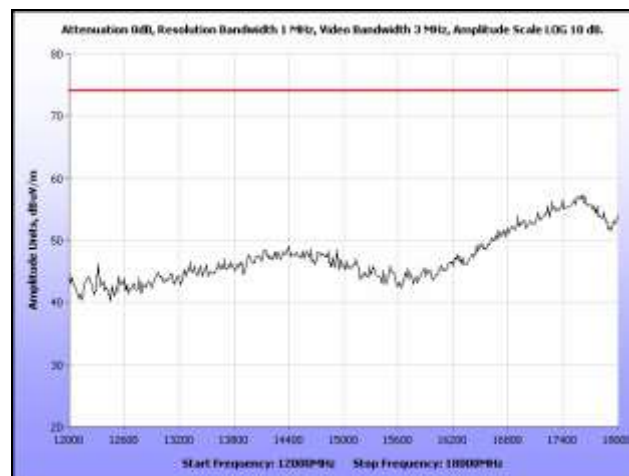
Plot 218. Radiated Spurious Emissions, High Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



Plot 219. Radiated Spurious Emissions, High Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz

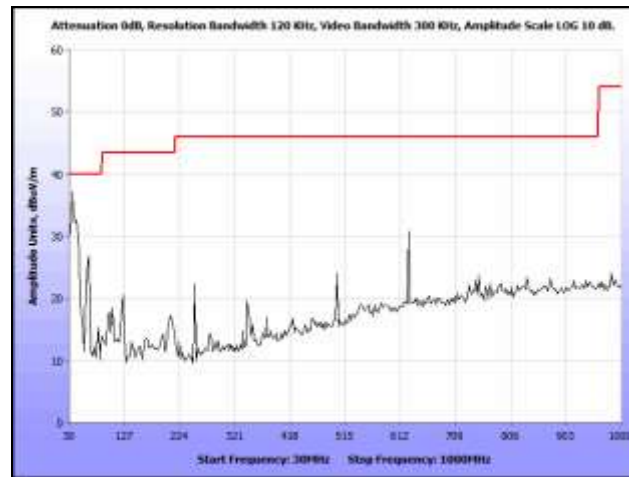


Plot 220. Radiated Spurious Emissions, High Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz

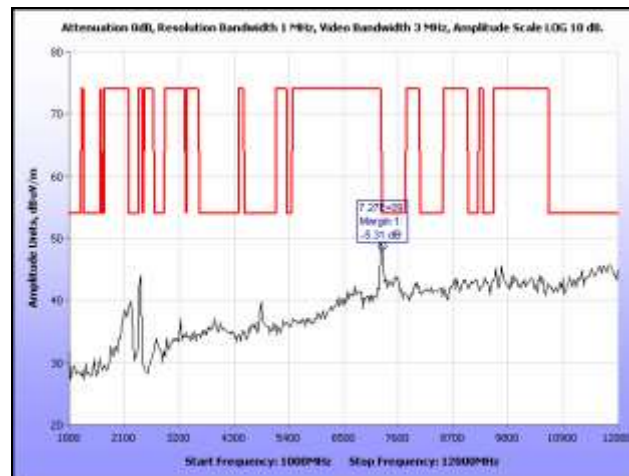


Plot 221. Radiated Spurious Emissions, High Channel, 802.11n HT20, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz

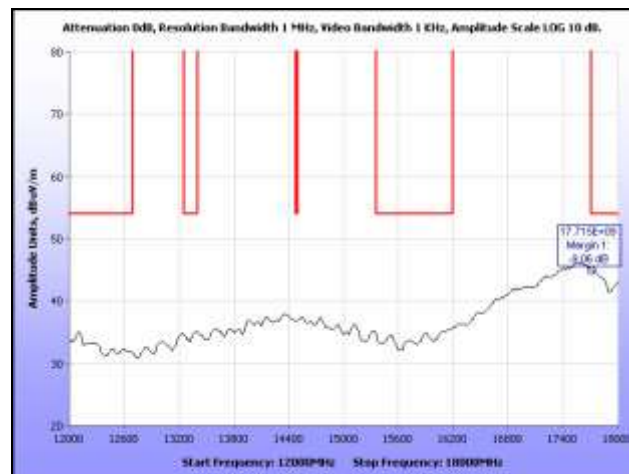
Radiated Spurious Emissions Test Results, 802.11n HT40, 3 dBi Ceiling Mount Omni Antenna, 2.4 GHz



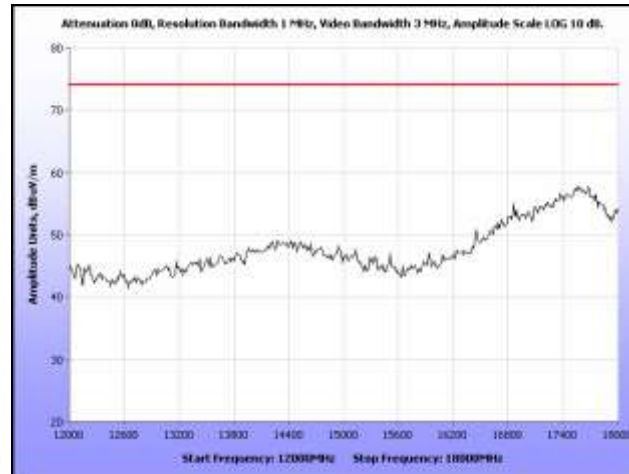
Plot 222. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



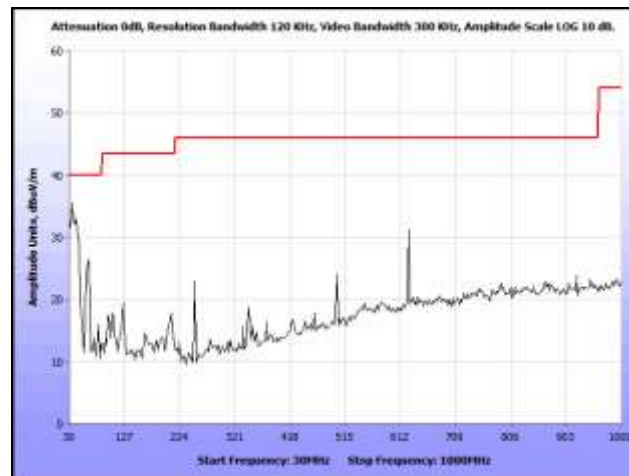
Plot 223. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



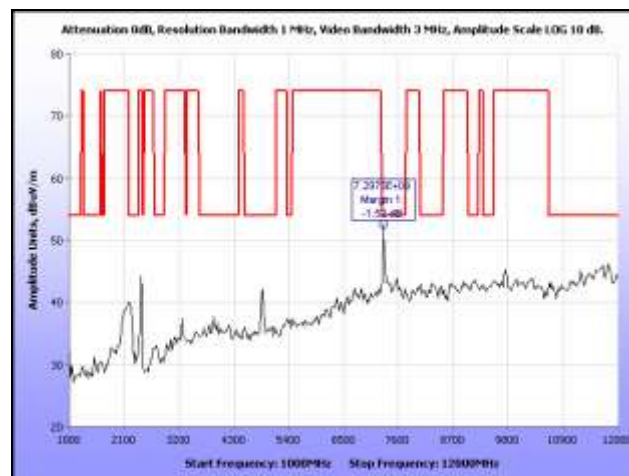
Plot 224. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



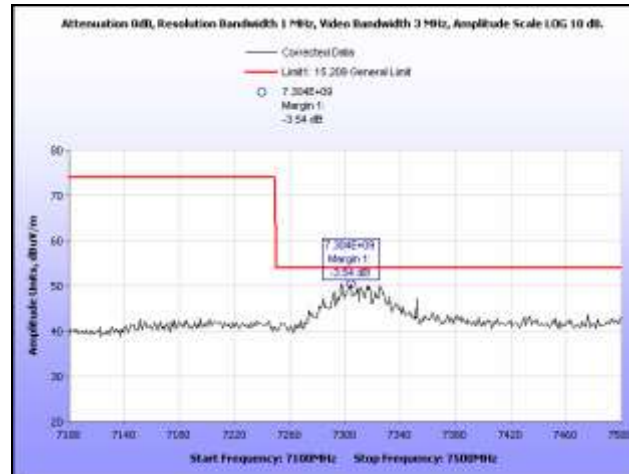
Plot 225. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



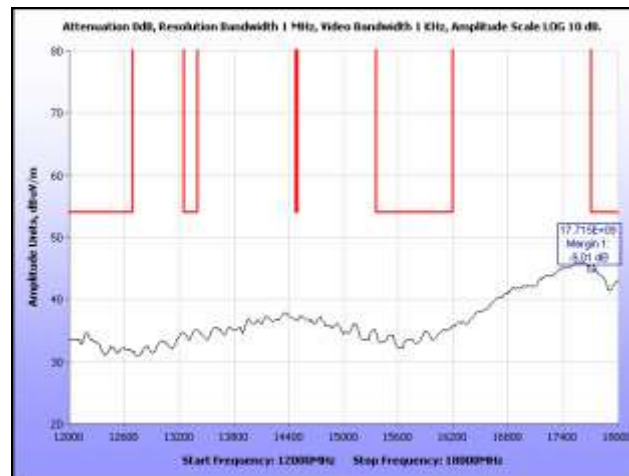
Plot 226. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



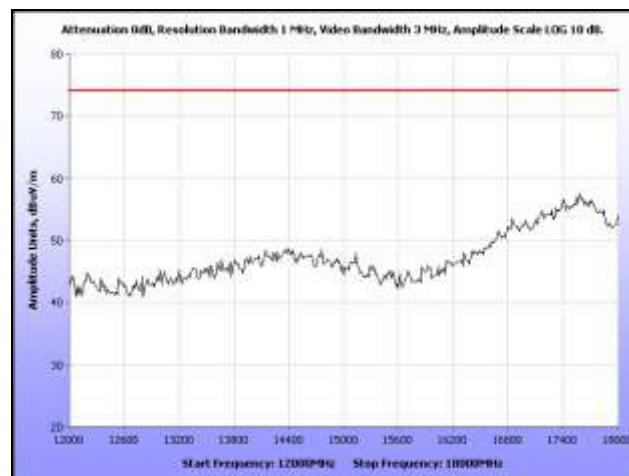
Plot 227. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



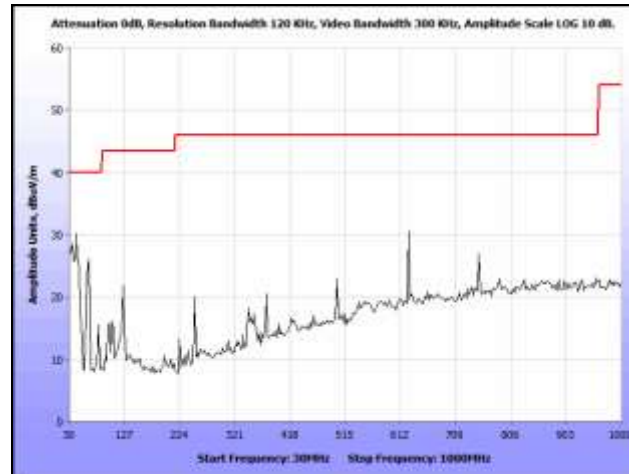
Plot 228. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz



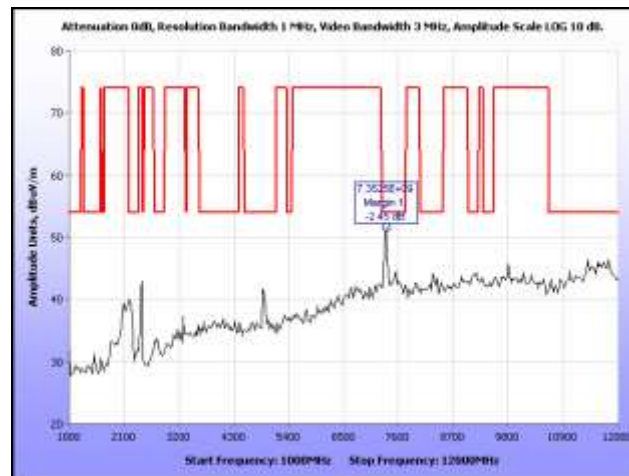
Plot 229. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz



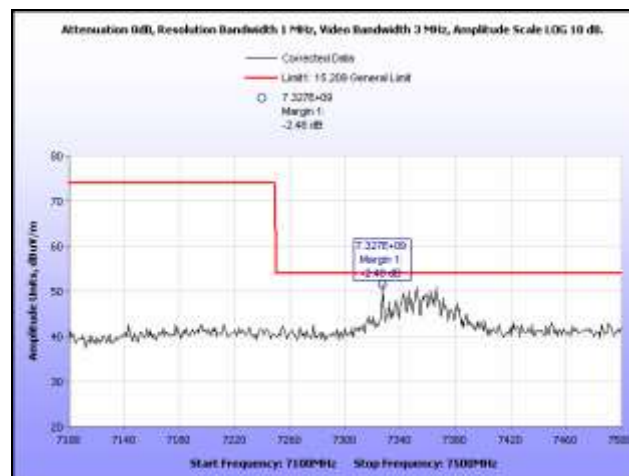
Plot 230. Radiated Spurious Emissions, Mid Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz



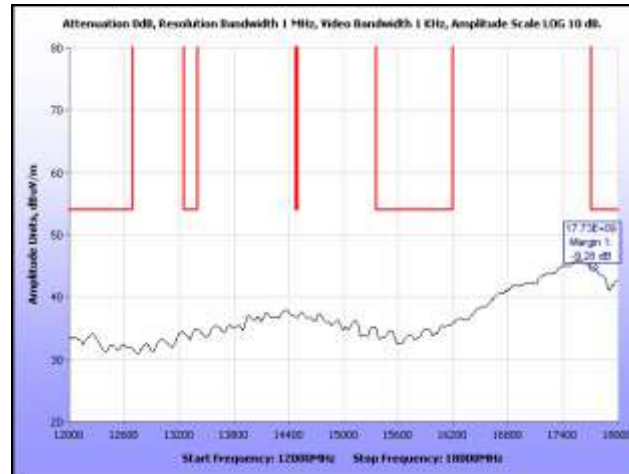
Plot 231. Radiated Spurious Emissions, High Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 30 MHz – 1 GHz, 2.4 GHz



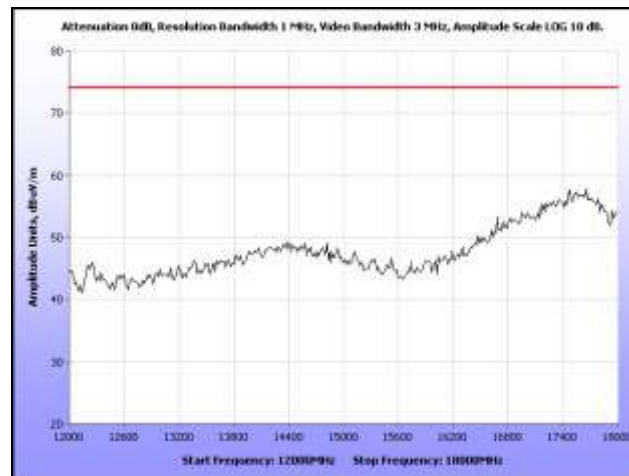
Plot 232. Radiated Spurious Emissions, High Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 1 – 12 GHz, 2.4 GHz



Plot 233. Radiated Spurious Emissions, High Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 7.1 – 7.5 GHz, 2.4 GHz

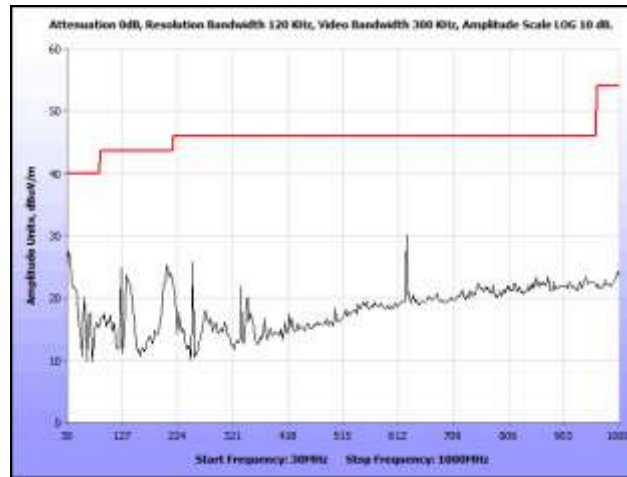


Plot 234. Radiated Spurious Emissions, High Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Avg., 2.4 GHz

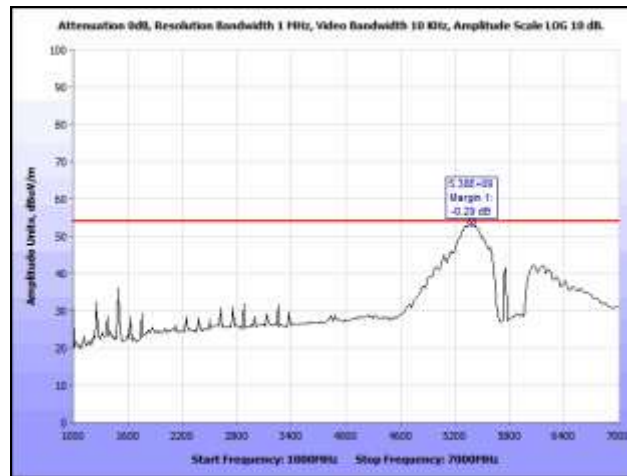


Plot 235. Radiated Spurious Emissions, High Channel, 802.11n HT40, 3 dBi Ceiling Mount Omni, 12 – 18 GHz, Peak, 2.4 GHz

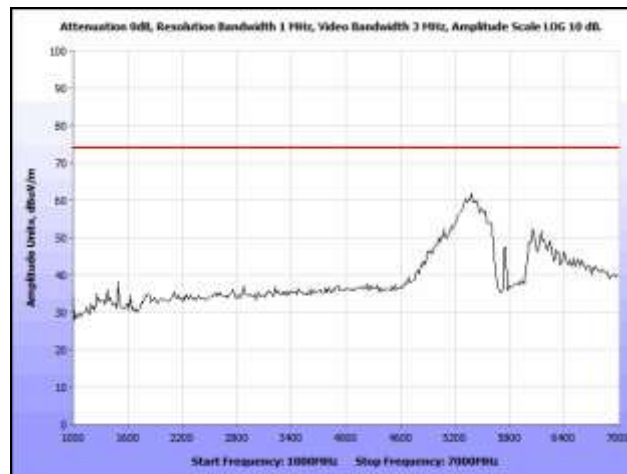
Radiated Spurious Emissions Test Results, 802.11a, 7 dBi Omni Antenna, 5 GHz



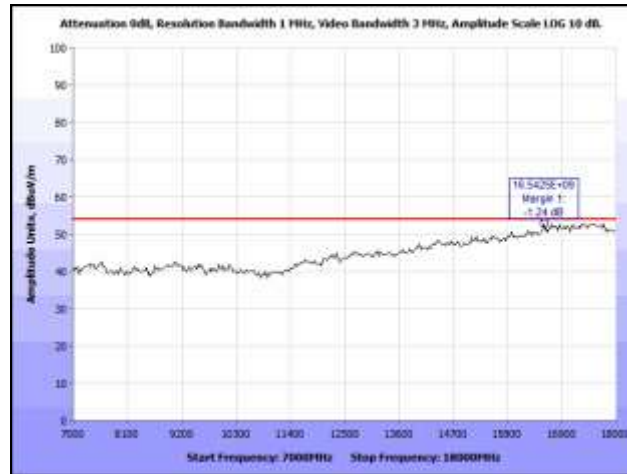
Plot 236. Radiated Spurious Emissions, Low Channel, 802.11a, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



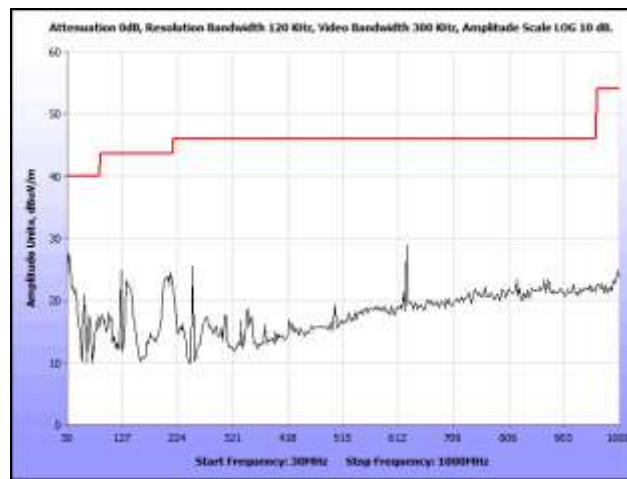
Plot 237. Radiated Spurious Emissions, Low Channel, 802.11a, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz



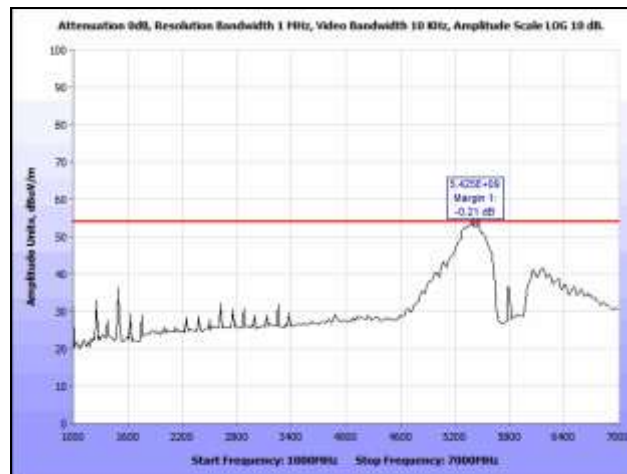
Plot 238. Radiated Spurious Emissions, Low Channel, 802.11a, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz



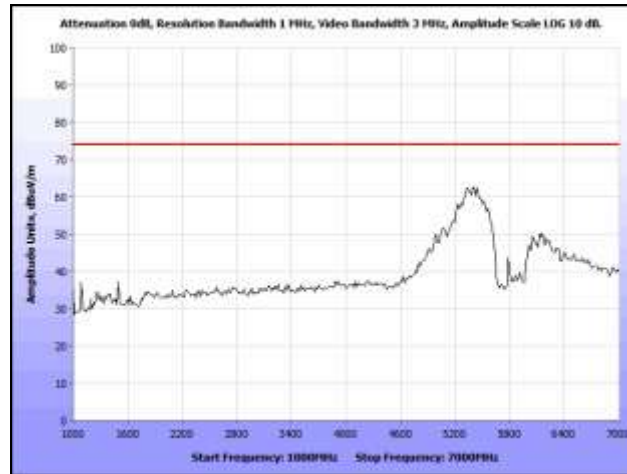
Plot 239. Radiated Spurious Emissions, Low Channel, 802.11a, 7 dBi Omni, 7 – 18 GHz, 5 GHz



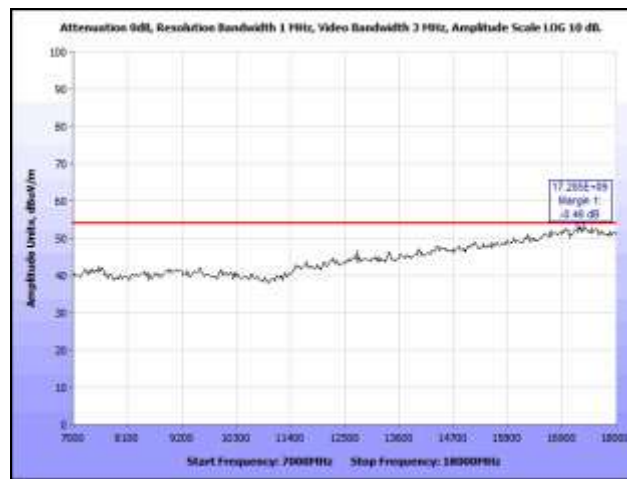
Plot 240. Radiated Spurious Emissions, Mid Channel, 802.11a, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



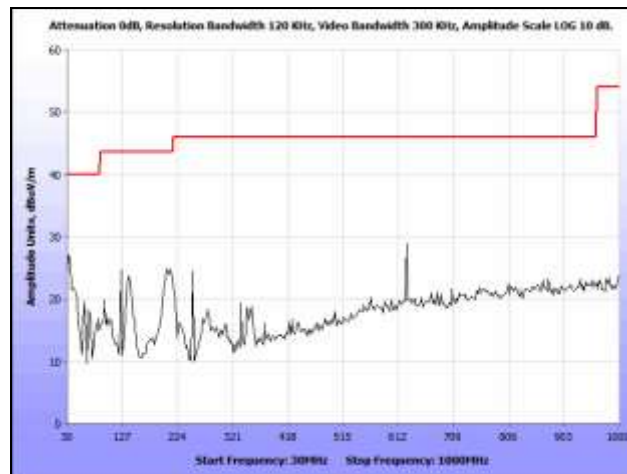
Plot 241. Radiated Spurious Emissions, Mid Channel, 802.11a, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz



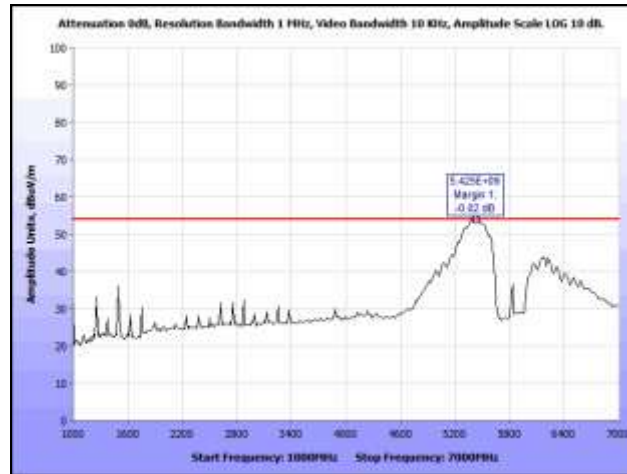
Plot 242. Radiated Spurious Emissions, Mid Channel, 802.11a, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz



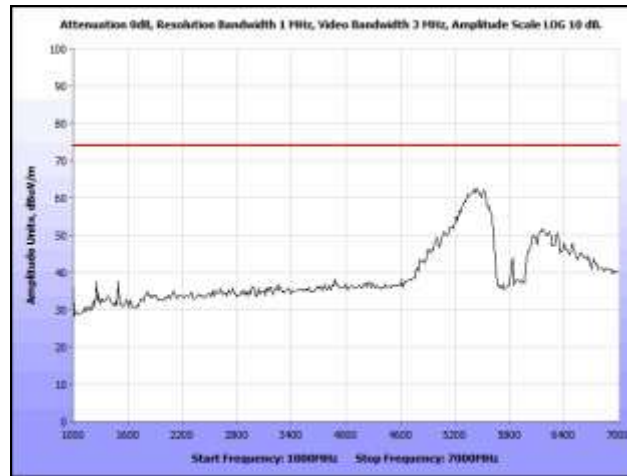
Plot 243. Radiated Spurious Emissions, Mid Channel, 802.11a, 7 dBi Omni, 7 – 18 GHz, 5 GHz



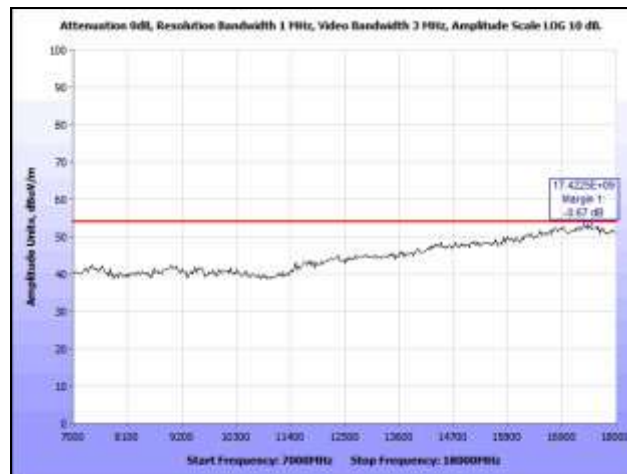
Plot 244. Radiated Spurious Emissions, High Channel, 802.11a, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



Plot 245. Radiated Spurious Emissions, High Channel, 802.11a, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz

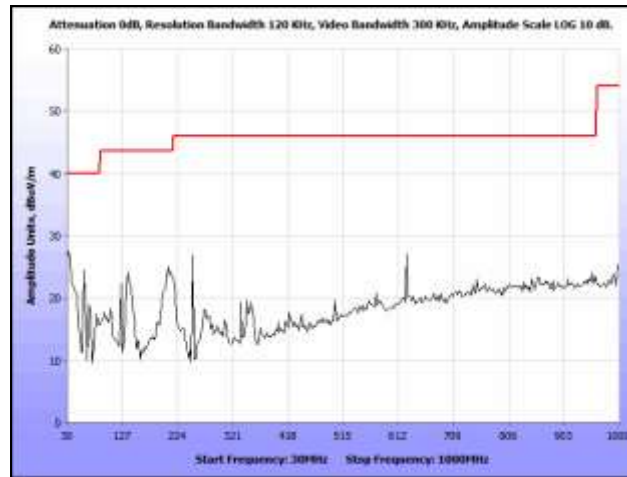


Plot 246. Radiated Spurious Emissions, High Channel, 802.11a, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz

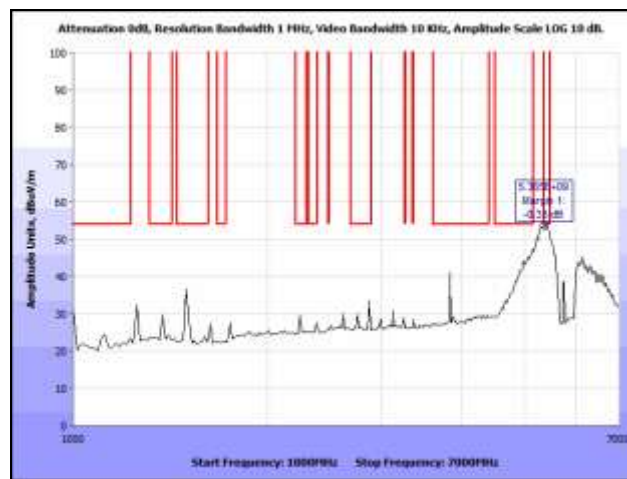


Plot 247. Radiated Spurious Emissions, High Channel, 802.11a, 7 dBi Omni, 7 – 18 GHz, 5 GHz

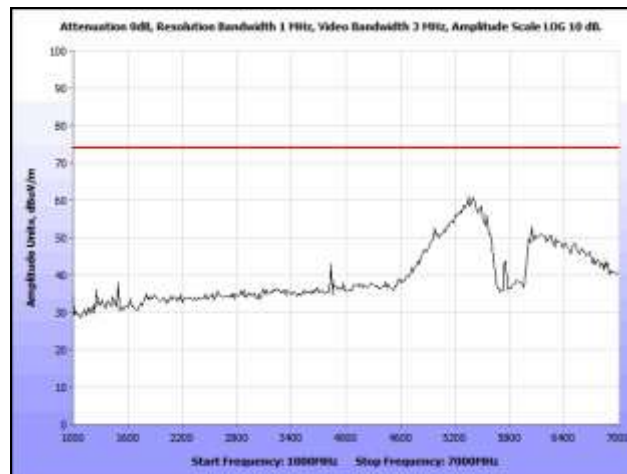
Radiated Spurious Emissions Test Results, 802.11n HT20, 7 dBi Omni Antenna, 5 GHz



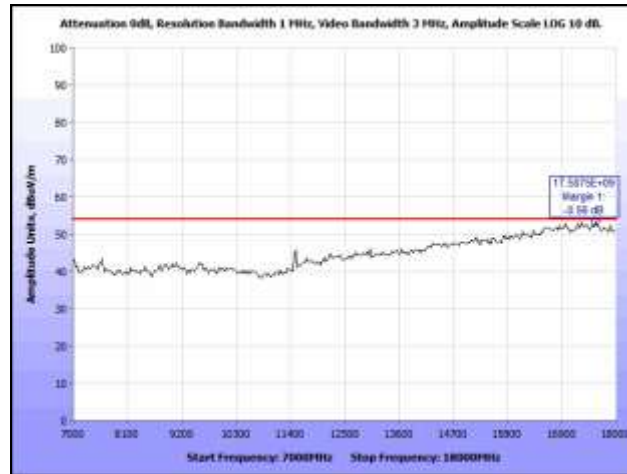
Plot 248. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



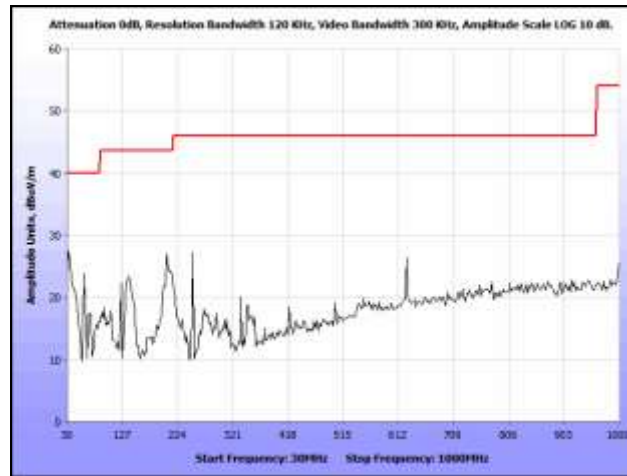
Plot 249. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz



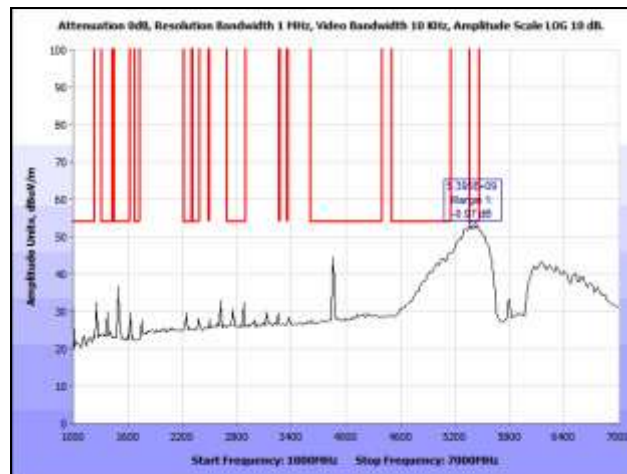
Plot 250. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz



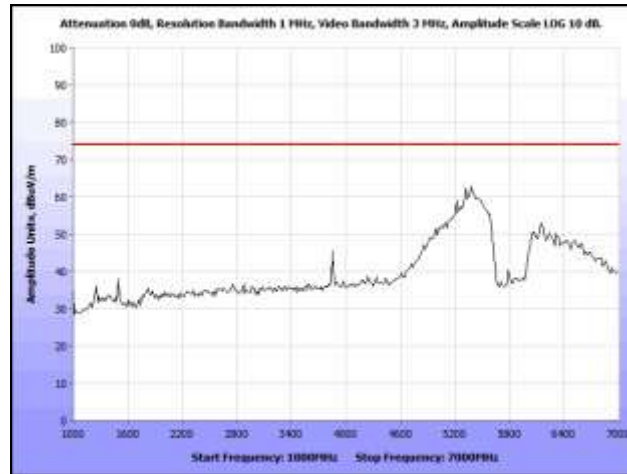
Plot 251. Radiated Spurious Emissions, Low Channel, 802.11n HT20, 7 dBi Omni, 7 – 18 GHz, 5 GHz



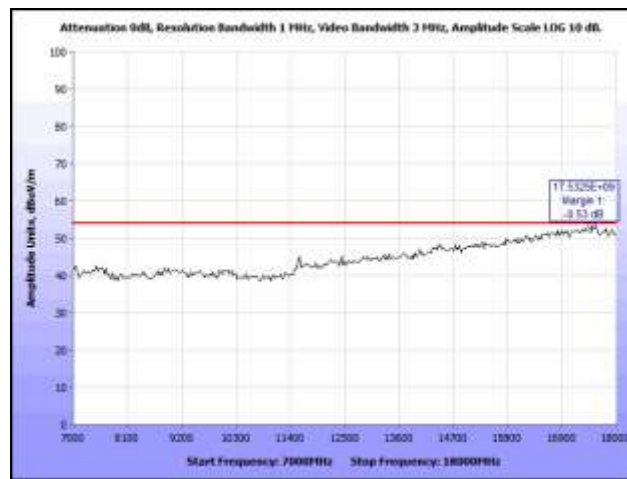
Plot 252. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



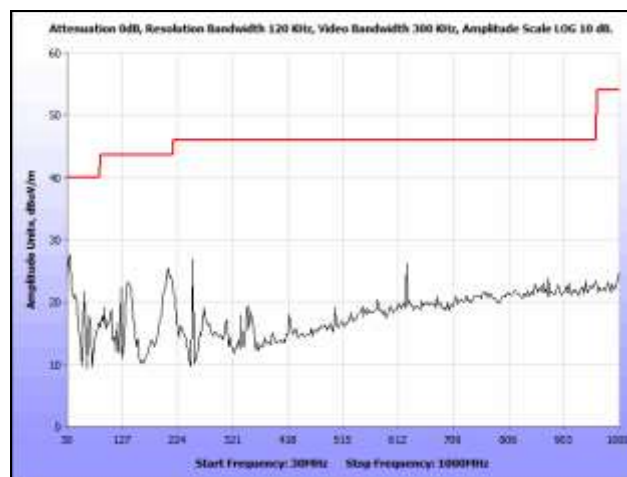
Plot 253. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz



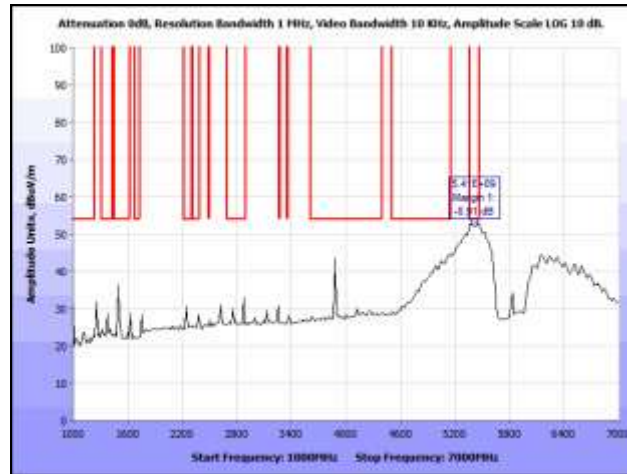
Plot 254. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz



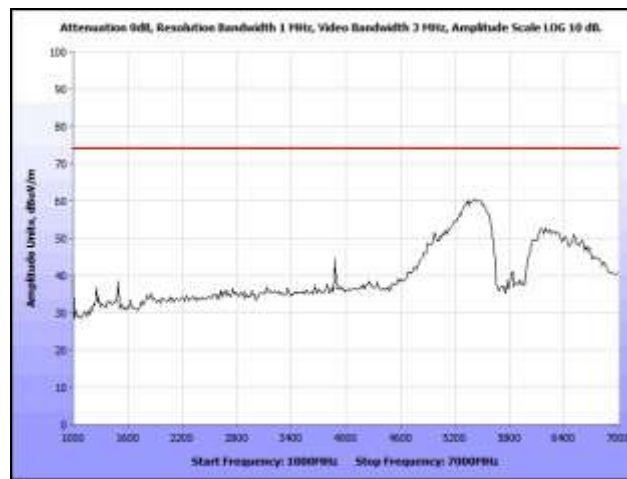
Plot 255. Radiated Spurious Emissions, Mid Channel, 802.11n HT20, 7 dBi Omni, 7 – 18 GHz, 5 GHz



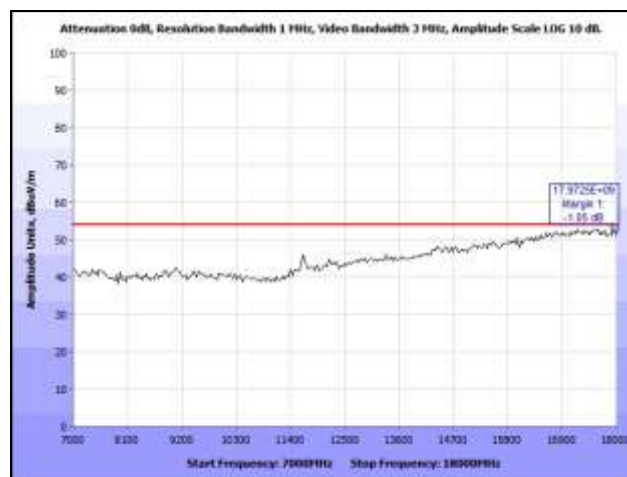
Plot 256. Radiated Spurious Emissions, High Channel, 802.11n HT20, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



Plot 257. Radiated Spurious Emissions, High Channel, 802.11n HT20, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz

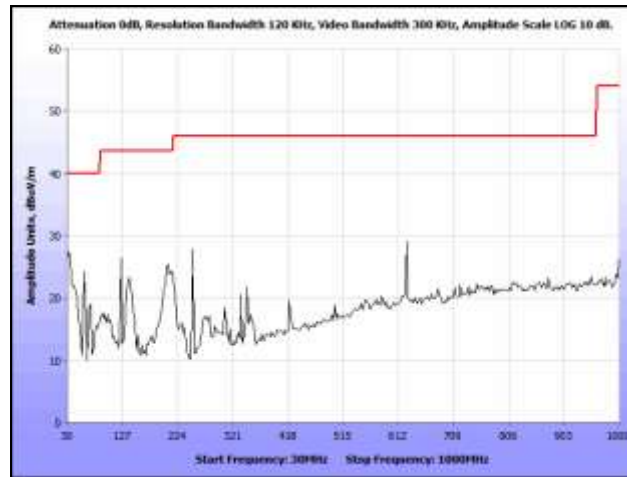


Plot 258. Radiated Spurious Emissions, High Channel, 802.11n HT20, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz

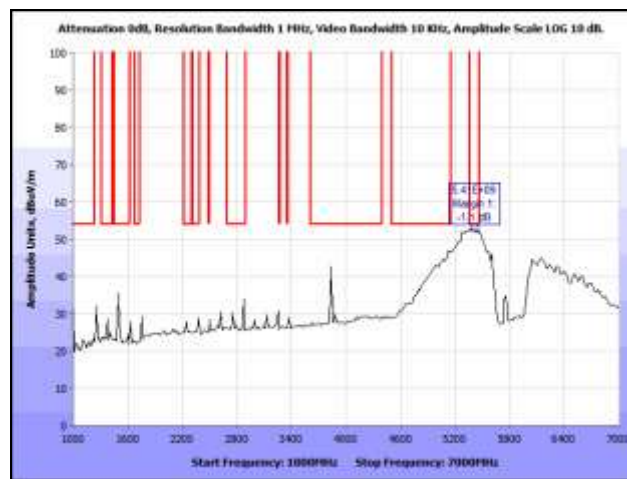


Plot 259. Radiated Spurious Emissions, High Channel, 802.11n HT20, 7 dBi Omni, 7 – 18 GHz, 5 GHz

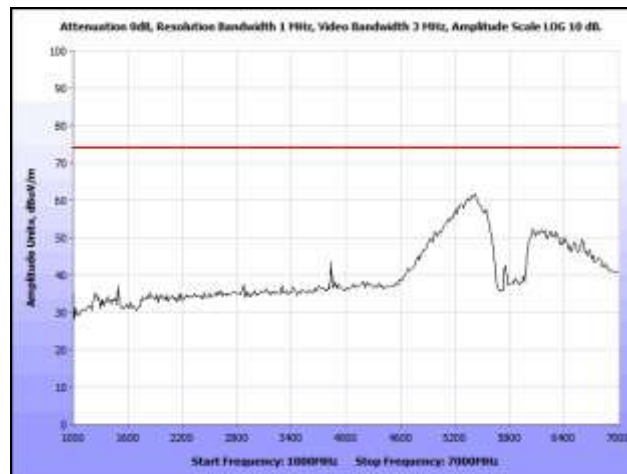
Radiated Spurious Emissions Test Results, 802.11n HT40, 7 dBi Omni Antenna, 5 GHz



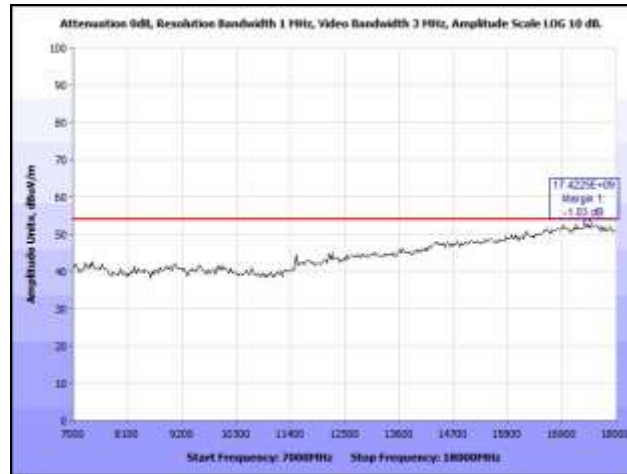
Plot 260. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



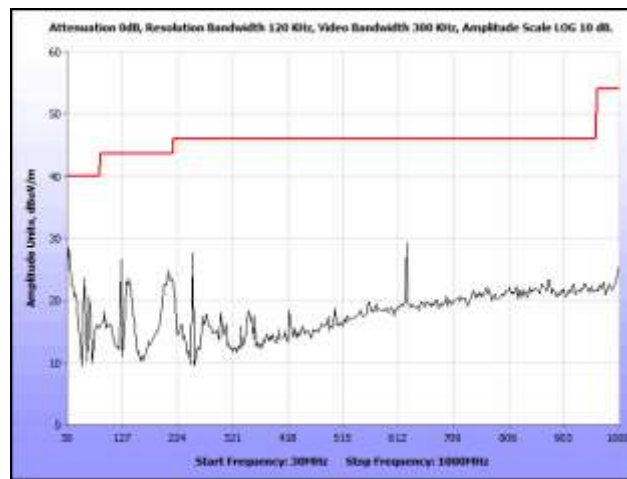
Plot 261. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz



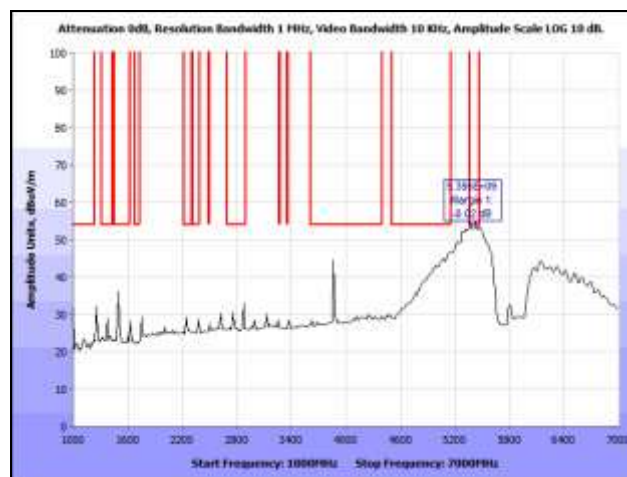
Plot 262. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz



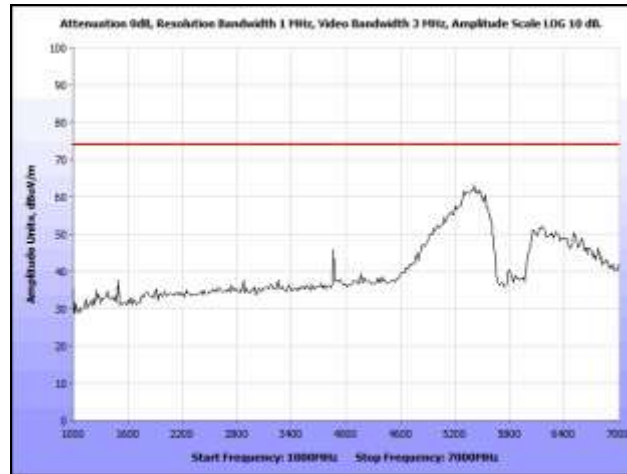
Plot 263. Radiated Spurious Emissions, Low Channel, 802.11n HT40, 7 dBi Omni, 7 – 18 GHz, 5 GHz



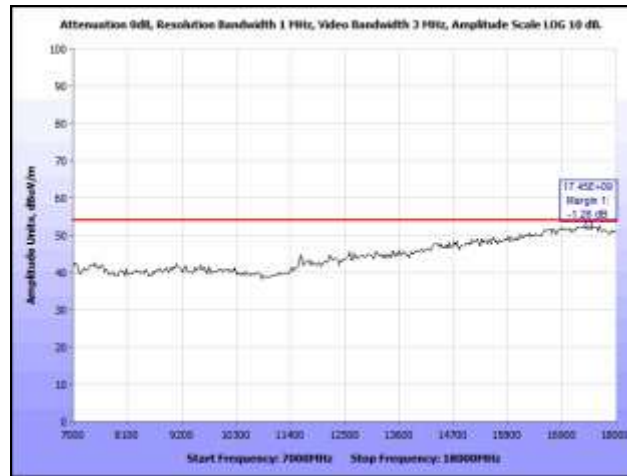
Plot 264. Radiated Spurious Emissions, High Channel, 802.11n HT40, 7 dBi Omni, 30 MHz – 1 GHz, 5 GHz



Plot 265. Radiated Spurious Emissions, High Channel, 802.11n HT40, 7 dBi Omni, 1 – 7 GHz, Avg., 5 GHz

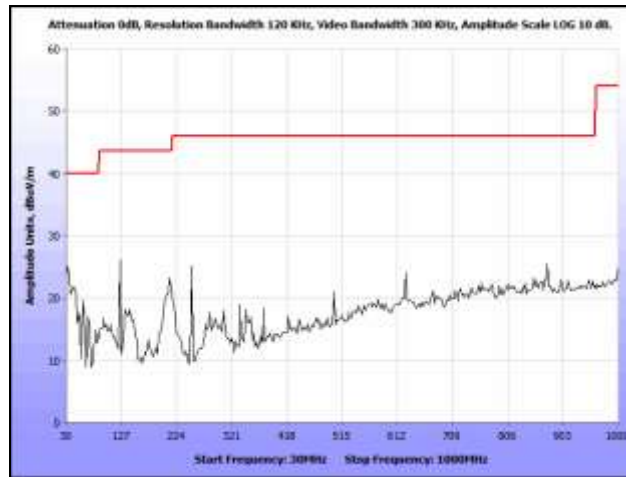


Plot 266. Radiated Spurious Emissions, High Channel, 802.11n HT40, 7 dBi Omni, 1 – 7 GHz, Peak, 5 GHz

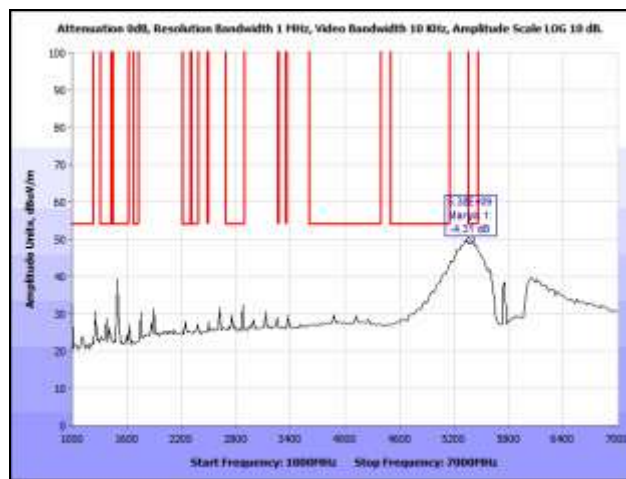


Plot 267. Radiated Spurious Emissions, High Channel, 802.11n HT40, 7 dBi Omni, 7 – 18 GHz, 5 GHz

Radiated Spurious Emissions Test Results, 802.11a, 7 dBi Patch Antenna, 5 GHz



Plot 268. Radiated Spurious Emissions, Low Channel, 802.11a, 7 dBi Patch, 30 MHz – 1 GHz, 5 GHz



Plot 269. Radiated Spurious Emissions, Low Channel, 802.11a, 7 dBi Patch, 1 – 7 GHz, Avg., 5 GHz



Plot 270. Radiated Spurious Emissions, Low Channel, 802.11a, 7 dBi Patch, 1 – 7 GHz, Peak, 5 GHz