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February 18, 2015

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

Dear Rajendran Chary,

Enclosed is the EMC Wireless test report for compliance testing of the Meru Networks, Inc., OAP832e as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 15, Subpart B and ICES-003, Issue 5 August 2012 for a Class B Digital Device, and FCC Part 15 Subpart C and 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.\EMCS84286A-FCC247 RSS-210 Rev. 1)

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Electromagnetic Compatibility Criteria Test Report

for the

**Meru Networks, Inc.
OAP832e**

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: EMCS84286A-FCC247 RSS-210 Rev. 1

February 18, 2015

Prepared For:

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

Prepared By:
MET Laboratories, Inc.
914 W. Patapsco Ave.
Baltimore, MD 21230

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&
15.247 Subpart C & RSS-210, Issue 8, Dec. 2010
for Intentional Radiators



Andy Shen, Project Engineer
Electromagnetic Compatibility Lab



Jennifer Warnell
Documentation Department

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 5 August 2012, RSS-210, Issue 8, Dec. 2010 under normal use and maintenance.



Asad Bajwa,
Director, Electromagnetic Compatibility Lab

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	February 10, 2015	Initial Issue.
1	February 18, 2015	Revised to reflect engineer corrections.

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List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
<i>d</i>	Measurement Distance
dB	Decibels
dB μ A	Decibels above one microamp
dB μ V	Decibels above one microvolt
dB μ A/m	Decibels above one microamp per meter
dB μ V/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
<i>f</i>	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
μ H	microhenry
μ	microfarad
μ s	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. OAP832e, 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 OAP832e. 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 OAP832e, 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 107413. 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 5 August 2012	Conducted Emission Limits for a Class B Digital Device	Compliant
47 CFR Part 15.109 (a)	ICES-003 Issue 5 August 2012	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

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 OAP832e, under Meru Networks, Inc.'s purchase order number 107413.

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., OAP832e.

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

Model(s) Tested:	OAP832e	
Model(s) Covered:	OAP832e	
EUT Specifications:	Primary Power: 120 VAC, 60 Hz	
	FCC ID: RE7-OAP832E	
	IC: 6749A-OAP832E	
	Type of Modulations:	CCK, BPSK, QPSK, 16-QAM, 64-QAM and 256-QAM
	Equipment Code:	DTS
	Peak RF Output Power:	25.01 dBm
	EUT Frequency Ranges:	2.412 to 2.472 GHz
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:	Andy Shen	
Report Date(s):	February 18, 2015	

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 5 August 2012	Information Technology Equipment (ITE) — Limits and methods of measurement
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
ISO/IEC 17025:2005	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

All testing was performed at MET Laboratories, Inc., 3162 Belick St., Santa Clara, CA 95054. 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 10 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. OAP832e, Equipment Under Test (EUT), is an 802.11AC Outdoor 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.

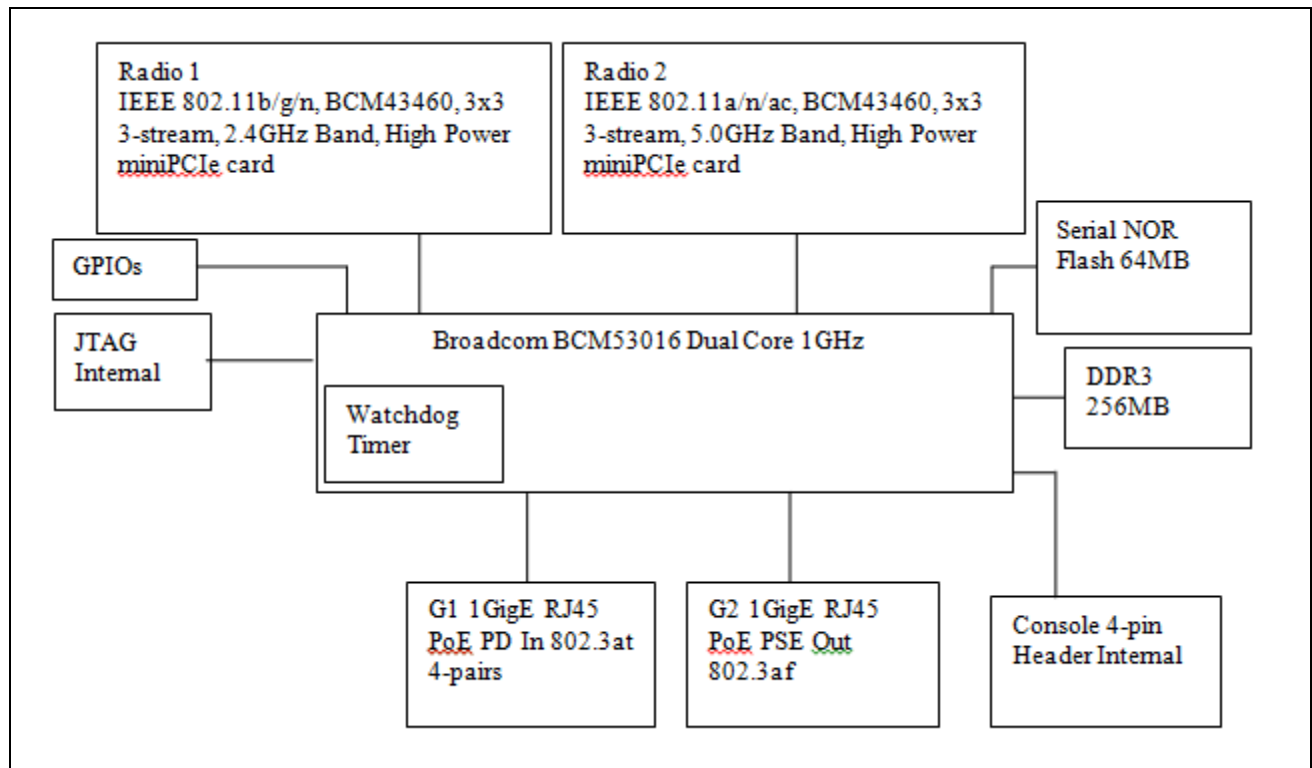


Figure 1. Block Diagram of Test Configuration

E. Equipment Configuration

The EUT was set up as outlined in Figure 1, Block Diagram of Test Setup. All cards, racks, etc., incorporated as part of the EUT is included in the following list.

Name / Description	Model Number	Part Number	Serial Number	Revision
Dual Band Radio Access Point	OAP832e	--	4514OAP8321726E2	1.0

Table 4. Equipment Configuration

F. Support Equipment

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

Ref. ID	Name / Description	Manufacturer	Model Number
1	PoE	Power Design	9001
2	Outdoor PoE	Power Design	9501GO
3	PoE	FSOP Groups	9NA0666400

Table 5. Support Equipment

SN	Antenna Type	Meru Model Number	Gain (dBi)		Beam Width (degree)	
			2.4GHz	5.0GHz	Horizontal	Vertical
1	Outdoor Dual band Omni directional Antenna	ANT-O6ABGN-0606-O	6.0	6.0	360°	40°
2	Wall mount Patch Antenna	ANT-O6ABGN-0607-PT	6.0	7.0	72° @ 2.4GHz and 82° at 5.0GHz	60° @ 2.4GHz and 75° at 5.0GHz
3	Directional MIMO Panel Antenna	ANT-O6ABGN-1211-PA	12.5	11.5	27° @ 2.4GHz and 30° at 5.0GHz	48° @ 2.4GHz and 40° at 5.0GHz
4	Outdoor Omni Directional Antenna	ANT-BG080-NM	8.0		360°	15°
5	Outdoor Omni Directional Antenna	ANT-BG080-NM1		8.0 (5.15-5.35 GHz)	360°	12°
6	Outdoor Omni Directional Antenna	ANT-BG080-NM2		8.0 (5.47-5.85 GHz)	360°	12°
7	Outdoor Rubber Duck Antenna	ANT-01BGN-05-O	5.0		360°	40°
8	Outdoor Rubber Duck Antenna	ANT-01ANA-07-O		7.0	360°	40°

Table 6. Antenna List

G. Ports and Cabling Information

Ref. ID	Port Name on EUT	Cable Description	Qty.	Length (m)	Shielded (Y/N)	Termination Point
1	Data	RG59 Coax	1	15	Yes	B. TX
2	AC Input	3 conductor, 18 awg	1	2	No	(230v/50hz)

Table 7. Ports and Cabling Information

H. 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. The device can handle up to 1.3Gbps data rates.

I. Method of Monitoring EUT Operation

During the normal operation 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.

J. 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.

K. 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.

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 8. 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 8. 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	Average	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 8. 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 screen room. The method of testing, test conditions, and test procedures of ANSI C63.4 were used. The EUT was powered through a 50 Ω /50 μ H LISN. 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.

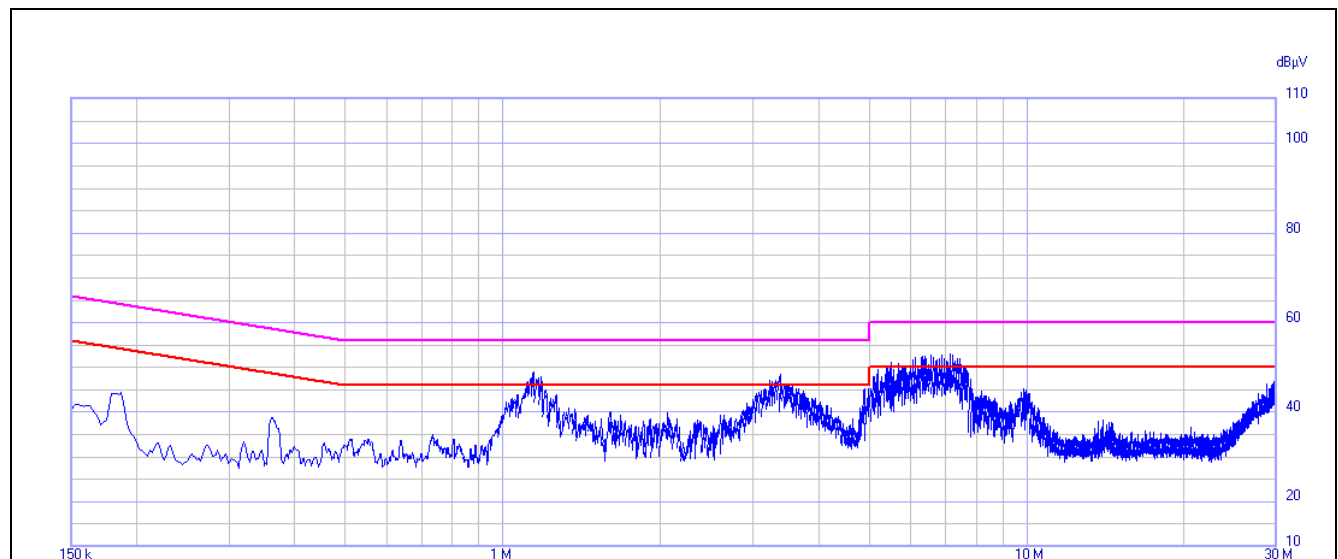
Test Engineer(s): Dan Phan

Test Date(s): 12/05/14

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

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
PowerDsine 9501GO - Line 120VAC	1.146	40.48	56	-15.52	Pass	24.72	46	-21.28	Pass
PowerDsine 9501GO - Line 120VAC	5.19	42.5	60	-17.5	Pass	29.39	50	-20.61	Pass
PowerDsine 9501GO - Line 120VAC	5.51	43.7	60	-16.3	Pass	31.41	50	-18.59	Pass
PowerDsine 9501GO - Line 120VAC	6.34	46.04	60	-13.96	Pass	34.86	50	-15.14	Pass
PowerDsine 9501GO - Line 120VAC	7.138	47.66	60	-12.34	Pass	34.38	50	-15.62	Pass
PowerDsine 9501GO - Line 120VAC	29.927	42.29	60	-17.71	Pass	36.4	50	-13.6	Pass

Table 9. Conducted Emissions - Voltage, AC Power, Phase Line (120 VAC, 60 Hz), with PowerDsine9501GO

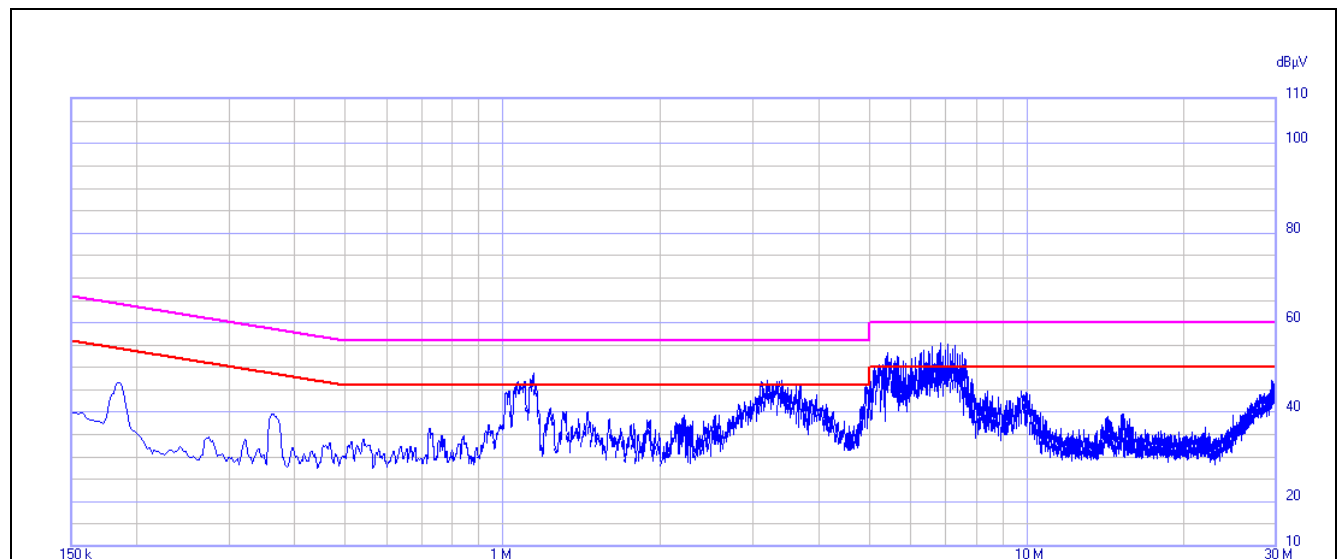


Plot 1. Conducted Emission, Phase Line Plot, with PowerDsine9501GO

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

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
PowerDsine 9501GO - Neutral 120VAC	1.146	40.5	56	-15.5	Pass	24.92	46	-21.08	Pass
PowerDsine 9501GO - Neutral 120VAC	3.397	42.33	56	-13.67	Pass	30.56	46	-15.44	Pass
PowerDsine 9501GO - Neutral 120VAC	5.408	44.13	60	-15.87	Pass	31.08	50	-18.92	Pass
PowerDsine 9501GO - Neutral 120VAC	6.79	48.65	60	-11.35	Pass	36.48	50	-13.52	Pass
PowerDsine 9501GO - Neutral 120VAC	29.817	41.89	60	-18.11	Pass	36.12	50	-13.88	Pass
PowerDsine 9501GO - Neutral 120VAC	7.528	45.19	60	-14.81	Pass	33.25	50	-16.75	Pass

Table 10. Conducted Emissions - Voltage, AC Power, Neutral Line (120 VAC, 60 Hz), with PowerDsine9501GO

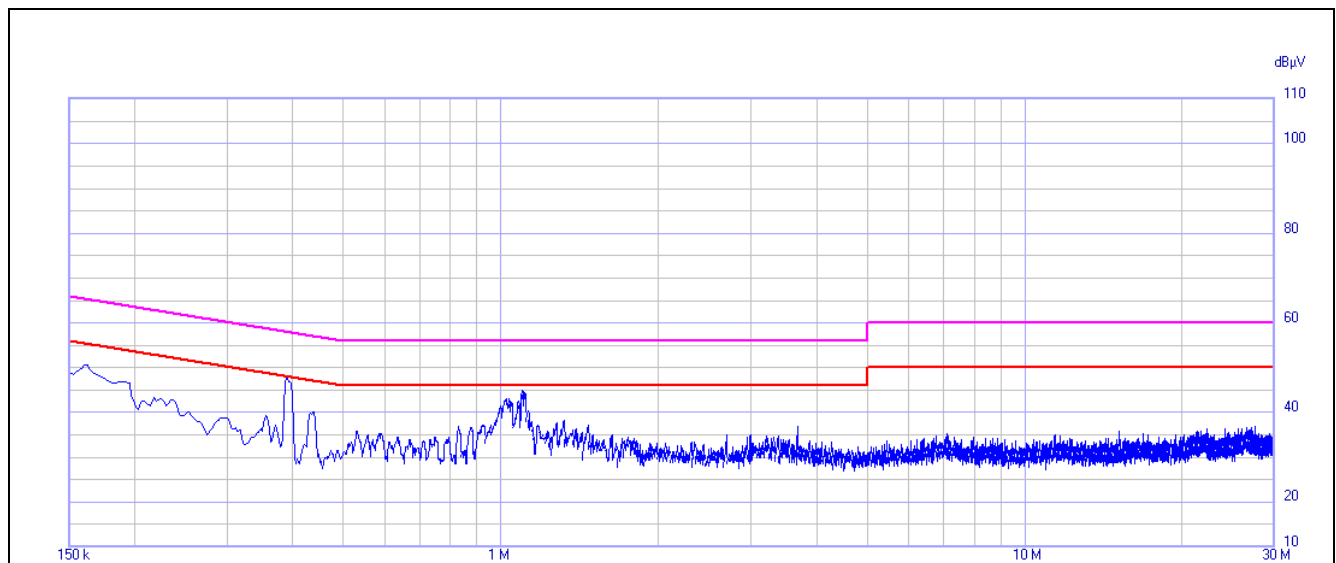


Plot 2. Conducted Emission, Neutral Line Plot, with PowerDsine9501GO

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

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
FSP PS - Line	0.15	44.98	66	-21.02	Pass	28.71	56	-27.29	Pass
FSP PS - Line	0.162	44.81	65.363	-20.553	Pass	36.11	55.363	-19.253	Pass
FSP PS - Line	0.389	44.68	58.107	-13.427	Pass	35.88	48.107	-12.227	Pass
FSP PS - Line	1.025	36.08	56	-19.92	Pass	26.4	46	-19.6	Pass
FSP PS - Line	1.08	37.77	56	-18.23	Pass	24.05	46	-21.95	Pass
FSP PS - Line	1.107	40.48	56	-15.52	Pass	34.79	46	-11.21	Pass

Table 11. Conducted Emissions - Voltage, AC Power, Phase Line (120 VAC, 60 Hz), with FSP Power Supply

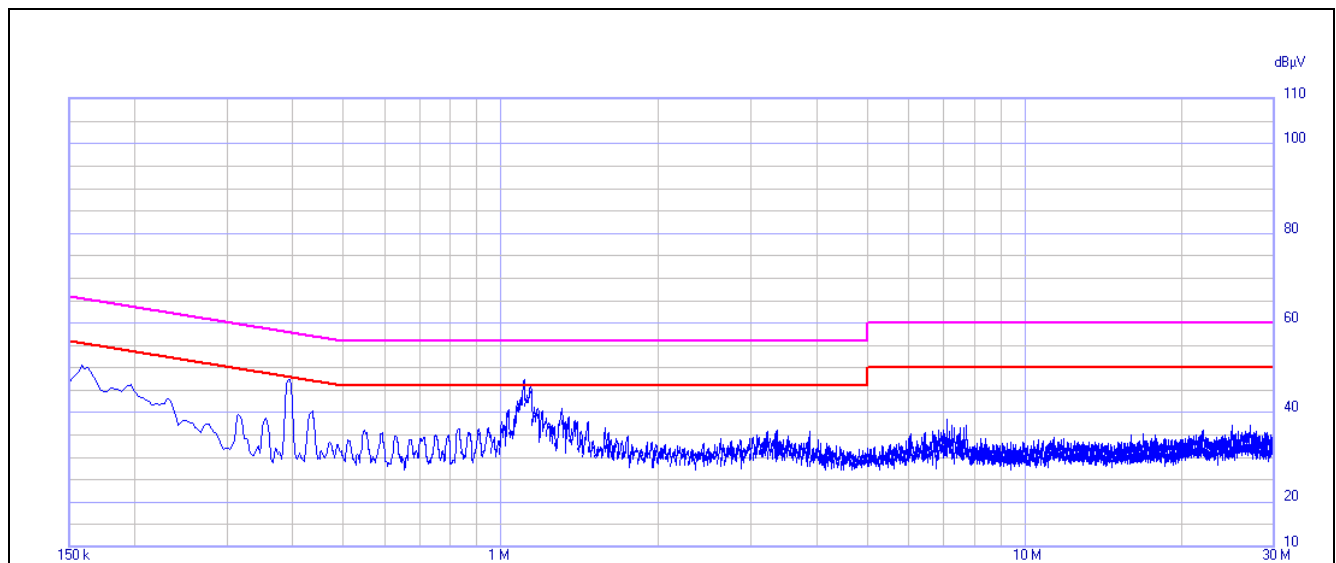


Plot 3. Conducted Emission, Phase Line Plot, with FSP Power Supply

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

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
FSP PS - Neutral	0.152	45.21	65.89	-20.68	Pass	31.13	55.89	-24.76	Pass
FSP PS - Neutral	0.158	46.14	65.57	-19.43	Pass	39.5	55.57	-16.07	Pass
FSP PS - Neutral	0.393	46.05	58.022	-11.972	Pass	45.07	48.022	-2.952	Pass
FSP PS - Neutral	8.512	36.98	60	-23.02	Pass	25.36	50	-24.64	Pass
FSP PS - Neutral	1.08	38.39	56	-17.61	Pass	23.77	46	-22.23	Pass
FSP PS - Neutral	1.109	39.85	56	-16.15	Pass	34.2	46	-11.8	Pass

Table 12. Conducted Emissions - Voltage, AC Power, Neutral Line (120 VAC, 60 Hz), with FSP Power Supply



Plot 4. Conducted Emission, Neutral Line Plot, with FSP Power Supply

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 13.

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 13.

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 13. 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 3m 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 for frequencies between 30MHz to 1GHz. For frequencies between 1GHz and 6GHz, an average detector with a 1MHz bandwidth was used.

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

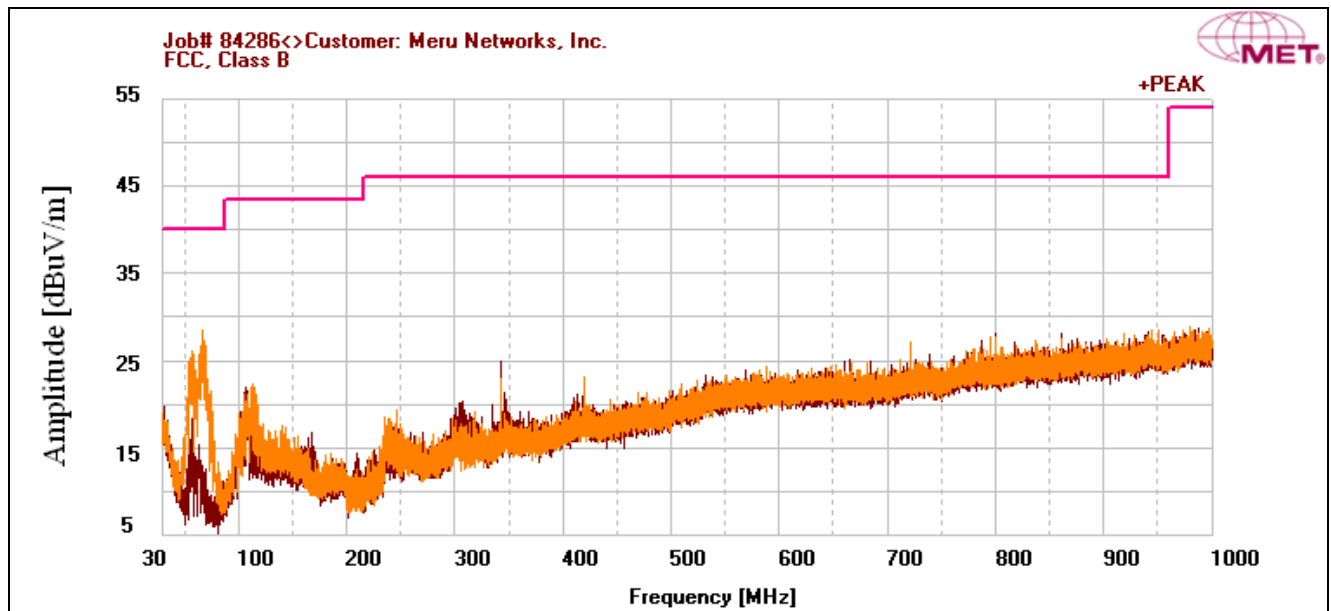
Test Engineer(s): Chris DePuy

Test Date(s): 12/04/14

Radiated Emissions Limits Test Results, Class B

Frequency (MHz)	Antenna Polarity	EUT Azimuth (Degrees)	Antenna Height (cm)	Uncorrected Amplitude (dBμV)	ACF (dB/m)	Pre Amp Gain (dB)	CBL (dB)	DCF (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
57.25	V	264	100	18.25	6.897	0	1.322	0	26.469	40	-13.531
66.4	V	280	100	16.3	6.661	0	1.428	0	24.389	40	-15.611
104.68	H	200	283.05	7.5	11.676	0	1.775	0	20.951	43.5	-22.549
113.24	V	215	100	5.2	12.515	0	1.854	0	19.569	43.5	-23.931
343.16	H	85	220.35	2.7	14.073	0	3.337	0	20.11	46	-25.89
418.92	V	0	100	0.8	16.358	0	3.68	0	20.838	46	-25.162

Table 14. Radiated Emissions Limits, Test Results, 30 MHz – 1 GHz

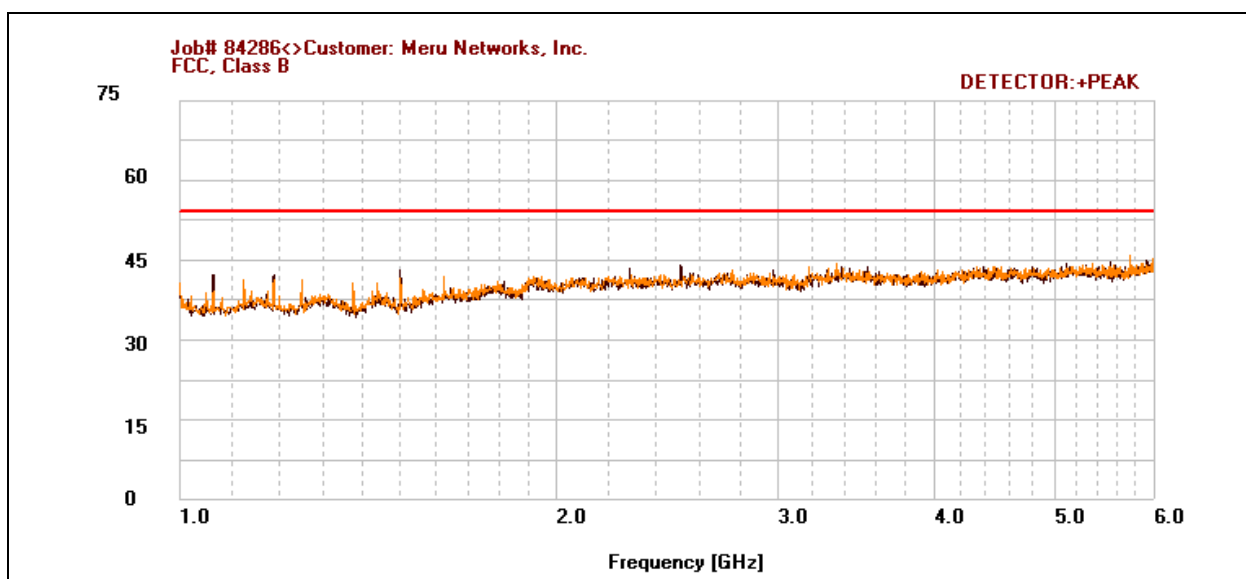


Plot 5. Radiated Emissions, 30 MHz – 1 GHz

Radiated Emissions Limits Test Results, Class B

Frequency (MHz)	Antenna Polarity	EUT Azimuth (Degrees)	Antenna Height (cm)	Uncorrected Amplitude (dB μ V)	ACF (dB/m)	Pre Amp Gain (dB)	CBL (dB)	DCF (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1062	H	30	100	43.76	27.898	33.524	0	0	38.134	50	-11.866
1187	H	4	127.6	42.87	28.498	33.471	0	0	37.897	50	-12.103
1125	V	6	198.5	40.03	28.2	33.497	0	0	34.733	50	-15.267
1500	H	79	100	46.83	28.2	33.34	0	0	41.69	50	-8.31
1625	V	83	174.35	42.59	29.2	33.288	0	0	38.502	50	-11.498
2506	H	0	100	31.42	32.71	34.223	0	0	29.907	50	-20.093

Table 15. Radiated Emissions Limits, Test Results, 1 GHz – 6 GHz



Plot 6. Radiated Emissions, 1 GHz – 6 GHz

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. The EUT is professionally installed.

Test Engineer(s): Andy Shen

Test Date(s): 12/13/14

SN	Antenna Type	Meru Model Number	Gain (dBi)		Beam Width (degree)	
			2.4GHz	5.0GHz	Horizontal	Vertical
1	Outdoor Dual band Omni directional Antenna	ANT-O6ABGN-0606-O	6.0	6.0	360°	40°
2	Wall mount Patch Antenna	ANT-O6ABGN-0607-PT	6.0	7.0	72° @ 2.4GHz and 82° at 5.0GHz	60° @ 2.4GHz and 75° at 5.0GHz
3	Directional MIMO Panel Antenna	ANT-O6ABGN-1211-PA	12.5	11.5	27° @ 2.4GHz and 30° at 5.0GHz	48° @ 2.4GHz and 40° at 5.0GHz
4	Outdoor Omni Directional Antenna	ANT-BG080-NM	8.0		360°	15°
5	Outdoor Omni Directional Antenna	ANT-BG080-NM1		8.0 (5.15-5.35 GHz)	360°	12°
6	Outdoor Omni Directional Antenna	ANT-BG080-NM2		8.0 (5.47-5.85 GHz)	360°	12°
7	Outdoor Rubber Duck Antenna	ANT-01BGN-05-O	5.0		360°	40°
8	Outdoor Rubber Duck Antenna	ANT-01ANA-07-O		7.0	360°	40°

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 Σ 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.

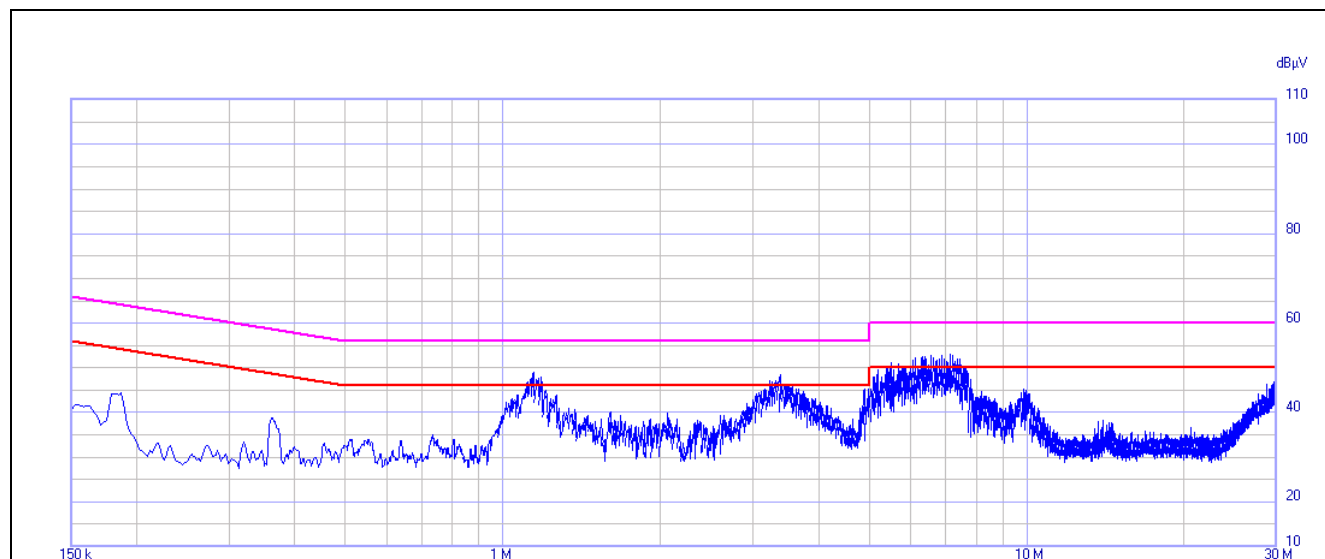
Test Engineer(s): Dan Phan

Test Date(s): 12/05/14

15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
PowerDsine 9501GO - Line 120VAC	1.146	40.48	56	-15.52	Pass	24.72	46	-21.28	Pass
PowerDsine 9501GO - Line 120VAC	5.19	42.5	60	-17.5	Pass	29.39	50	-20.61	Pass
PowerDsine 9501GO - Line 120VAC	5.51	43.7	60	-16.3	Pass	31.41	50	-18.59	Pass
PowerDsine 9501GO - Line 120VAC	6.34	46.04	60	-13.96	Pass	34.86	50	-15.14	Pass
PowerDsine 9501GO - Line 120VAC	7.138	47.66	60	-12.34	Pass	34.38	50	-15.62	Pass
PowerDsine 9501GO - Line 120VAC	29.927	42.29	60	-17.71	Pass	36.4	50	-13.6	Pass

Table 17. Conducted Emissions, 15.207(a), Phase Line, Test Results, with PowerDsine9501GO

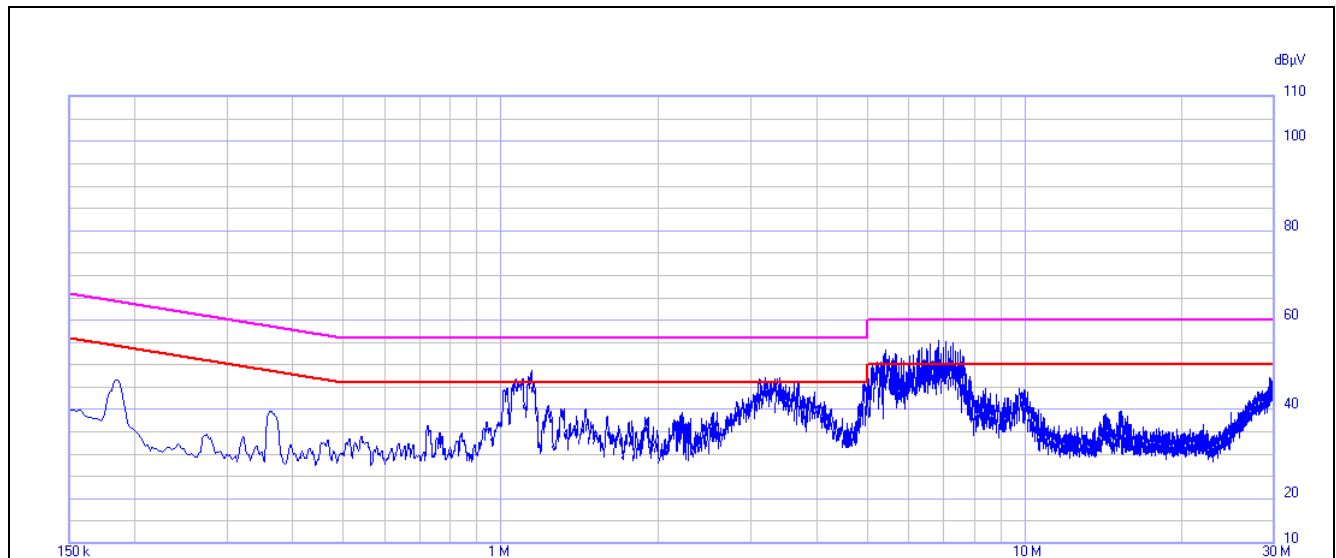


Plot 7. Conducted Emissions, 15.207(a), Phase Line, with PowerDsine9501GO

15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
PowerDsine 9501GO - Neutral 120VAC	1.146	40.5	56	-15.5	Pass	24.92	46	-21.08	Pass
PowerDsine 9501GO - Neutral 120VAC	3.397	42.33	56	-13.67	Pass	30.56	46	-15.44	Pass
PowerDsine 9501GO - Neutral 120VAC	5.408	44.13	60	-15.87	Pass	31.08	50	-18.92	Pass
PowerDsine 9501GO - Neutral 120VAC	6.79	48.65	60	-11.35	Pass	36.48	50	-13.52	Pass
PowerDsine 9501GO - Neutral 120VAC	29.817	41.89	60	-18.11	Pass	36.12	50	-13.88	Pass
PowerDsine 9501GO - Neutral 120VAC	7.528	45.19	60	-14.81	Pass	33.25	50	-16.75	Pass

Table 18. Conducted Emissions, 15.207(a), Neutral Line, Test Results, with PowerDsine9501GO

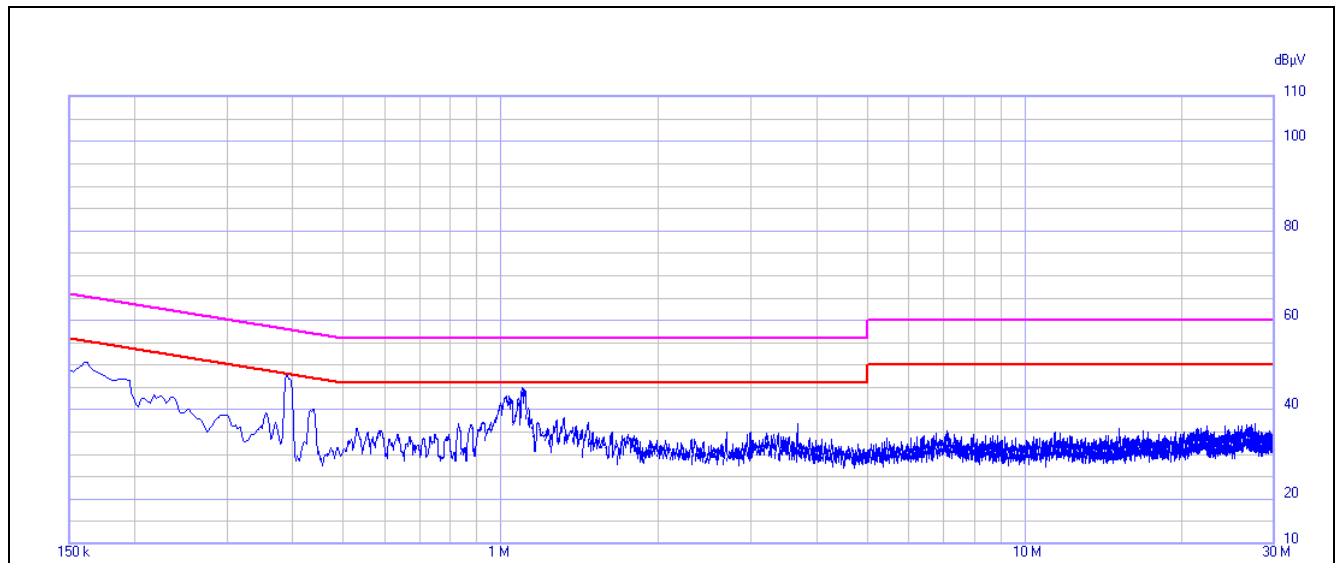


Plot 8. Conducted Emissions, 15.207(a), Neutral Line, with PowerDsine9501GO

15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
FSP PS - Line	0.15	44.98	66	-21.02	Pass	28.71	56	-27.29	Pass
FSP PS - Line	0.162	44.81	65.363	-20.553	Pass	36.11	55.363	-19.253	Pass
FSP PS - Line	0.389	44.68	58.107	-13.427	Pass	35.88	48.107	-12.227	Pass
FSP PS - Line	1.025	36.08	56	-19.92	Pass	26.4	46	-19.6	Pass
FSP PS - Line	1.08	37.77	56	-18.23	Pass	24.05	46	-21.95	Pass
FSP PS - Line	1.107	40.48	56	-15.52	Pass	34.79	46	-11.21	Pass

Table 19. Conducted Emissions, 15.207(a), Phase Line, Test Results, with FSP Power Supply

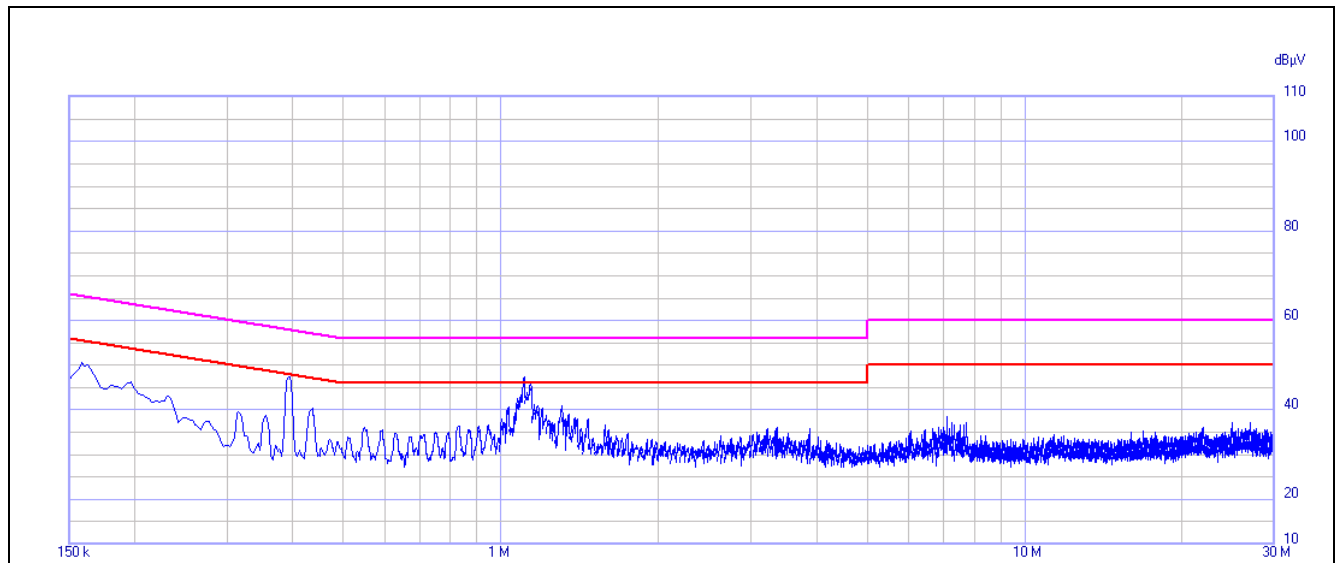


Plot 9. Conducted Emissions, 15.207(a), Phase Line, with FSP Power Supply

15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
FSP PS - Neutral	0.152	45.21	65.89	-20.68	Pass	31.13	55.89	-24.76	Pass
FSP PS - Neutral	0.158	46.14	65.57	-19.43	Pass	39.5	55.57	-16.07	Pass
FSP PS - Neutral	0.393	46.05	58.022	-11.972	Pass	45.07	48.022	-2.952	Pass
FSP PS - Neutral	8.512	36.98	60	-23.02	Pass	25.36	50	-24.64	Pass
FSP PS - Neutral	1.08	38.39	56	-17.61	Pass	23.77	46	-22.23	Pass
FSP PS - Neutral	1.109	39.85	56	-16.15	Pass	34.2	46	-11.8	Pass

Table 20. Conducted Emissions, 15.207(a), Neutral Line, Test Results, with FSP Power Supply



Plot 10. Conducted Emissions, 15.207(a), Neutral Line, with FSP Power Supply

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): Kaushani Dasgupta

Test Date(s): 12/12/14



Figure 2. Block Diagram, Occupied Bandwidth Test Setup

Occupied Bandwidth Test Results

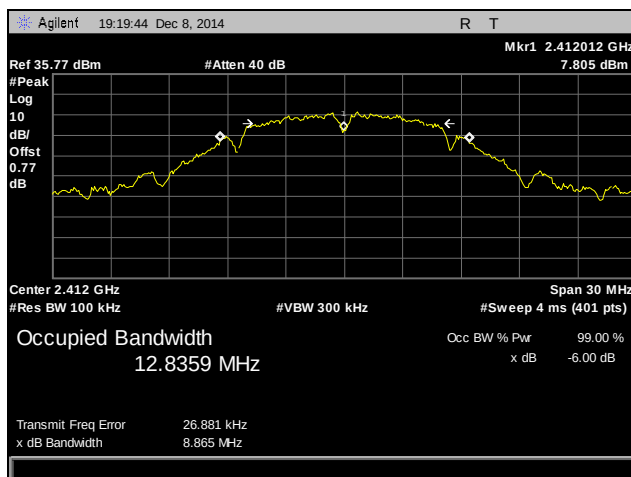
Occupied Bandwidth			
	Carrier Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)
802.11b	Low	2412	8.865
	Mid	2437	9.608
	High	2462	9.043
802.11g 20 MHz	Low	2412	16.415
	Mid	2437	16.078
	High	2462	16.403
802.11g 40 MHz	Low	2422	36.429
	Mid	2437	35.842
	High	2452	36.481
802.11n 20 MHz Port L	Low	2412	17.678
	Mid	2437	17.647
	High	2462	17.639
802.11n 20 MHz Port R	Low	2412	15.701
	Mid	2437	15.625
	High	2462	15.574
802.11n 20 MHz Port M	Low	2412	17.750
	Mid	2437	17.737
	High	2462	17.742
802.11n 40 MHz Port L	Low	2422	36.271
	Mid	2437	35.986
	High	2452	36.358
802.11n 40 MHz Port R	Low	2422	36.408
	Mid	2437	36.408
	High	2452	35.879
802.11n 40 MHz Port M	Low	2422	36.402
	Mid	2437	36.530
	High	2452	35.488

Table 21. 6 dB Occupied Bandwidth, Test Results

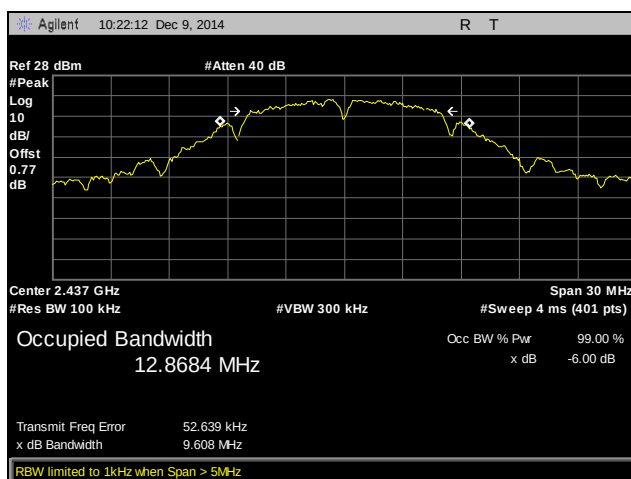
Occupied Bandwidth			
	Carrier Channel	Frequency (MHz)	Measured 99% Bandwidth (MHz)
802.11b	Low	2412	12.8359
	Mid	2437	12.8684
	High	2462	12.9579
802.11g 20 MHz	Low	2412	18.0592
	Mid	2437	18.1980
	High	2462	18.2842
802.11g 40 MHz	Low	2422	36.1825
	Mid	2437	36.1848
	High	2452	36.2289
802.11n 20 MHz Port L	Low	2412	17.8105
	Mid	2437	17.9007
	High	2462	17.8650
802.11n 20 MHz Port R	Low	2412	17.6096
	Mid	2437	17.6341
	High	2462	17.6003
802.11n 20 MHz Port M	Low	2412	17.6250
	Mid	2437	17.6497
	High	2462	17.6340
802.11n 40 MHz Port L	Low	2422	36.1408
	Mid	2437	36.1964
	High	2452	36.1689
802.11n 40 MHz Port R	Low	2422	36.0948
	Mid	2437	37.8690
	High	2452	36.1234
802.11n 40 MHz Port M	Low	2422	36.1098
	Mid	2437	36.1672
	High	2452	36.1550

Table 22. 99% Occupied Bandwidth, Test Results

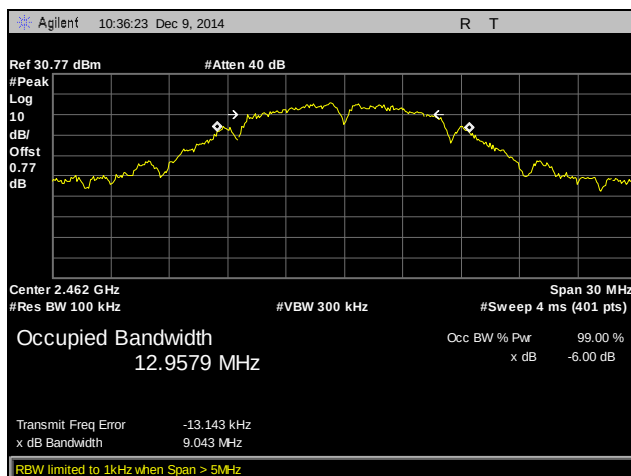
6 dB Occupied Bandwidth Test Results, 802.11b



Plot 11. 6 dB Occupied Bandwidth, Low Channel, 802.11b

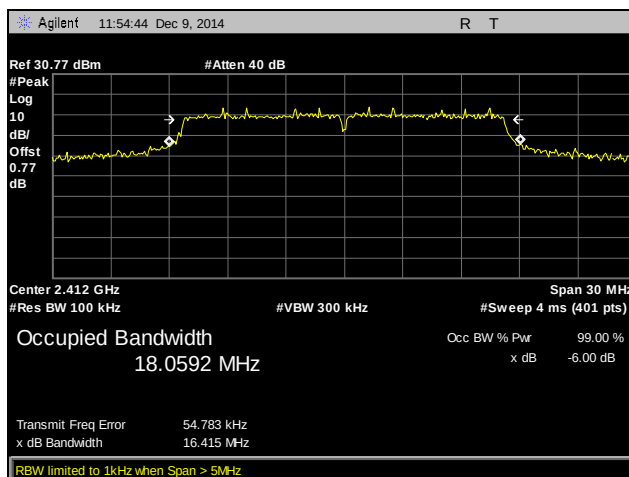


Plot 12. 6 dB Occupied Bandwidth, Mid Channel, 802.11b

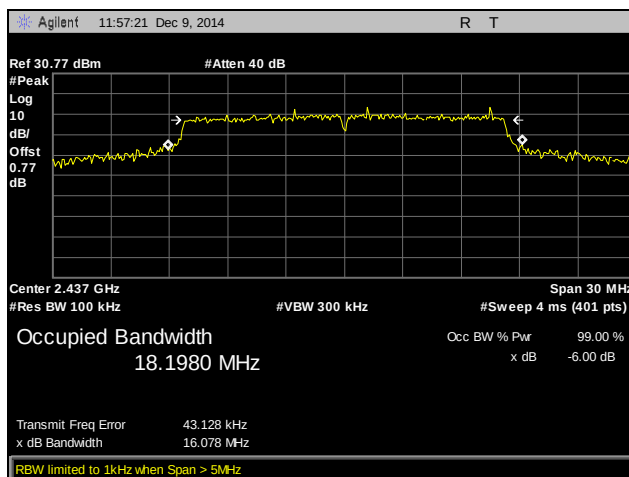


Plot 13. 6 dB Occupied Bandwidth, High Channel, 802.11b

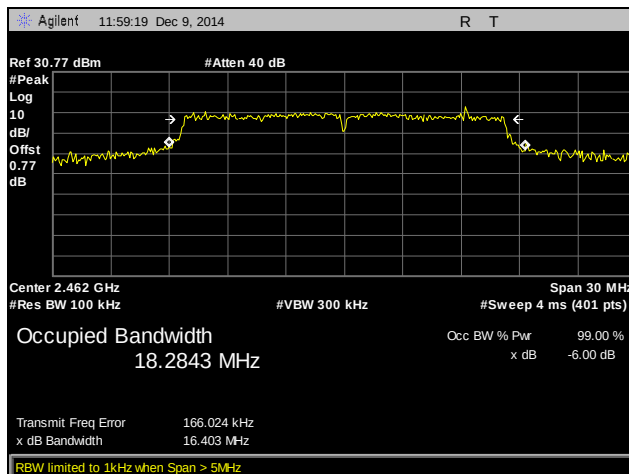
6 dB Occupied Bandwidth Test Results, 802.11g 20 MHz



Plot 14. 6 dB Occupied Bandwidth, Low Channel, 802.11g 20 MHz

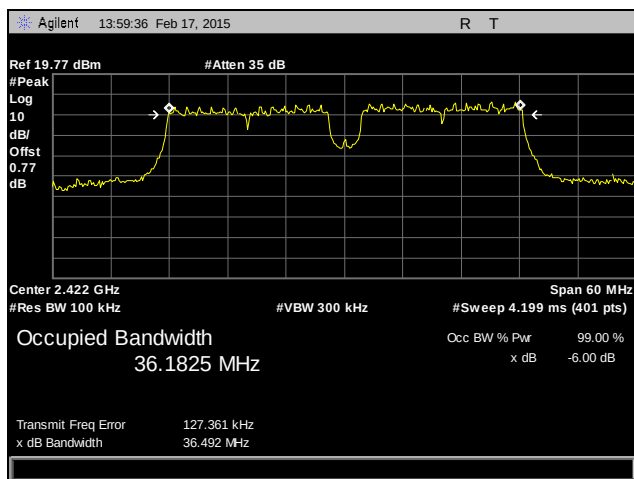


Plot 15. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 20 MHz

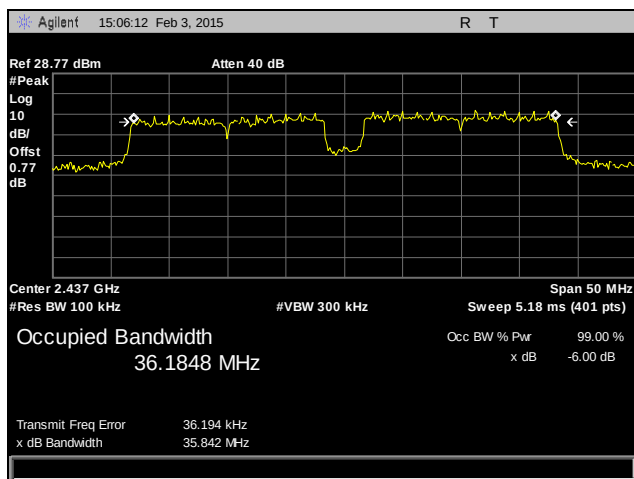


Plot 16. 6 dB Occupied Bandwidth, High Channel, 802.11g 20 MHz

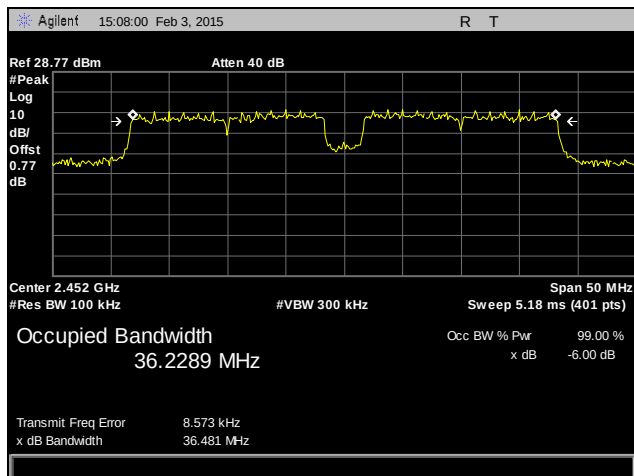
6 dB Occupied Bandwidth Test Results, 802.11g 40 MHz



Plot 17. 6 dB Occupied Bandwidth, Low Channel, 802.11g 40 MHz

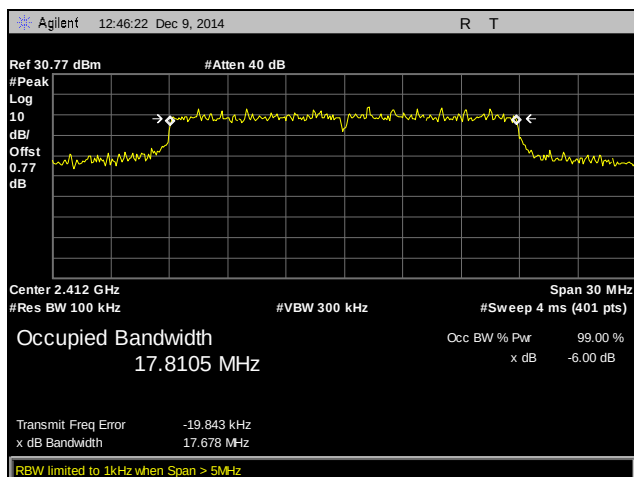


Plot 18. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 40 MHz

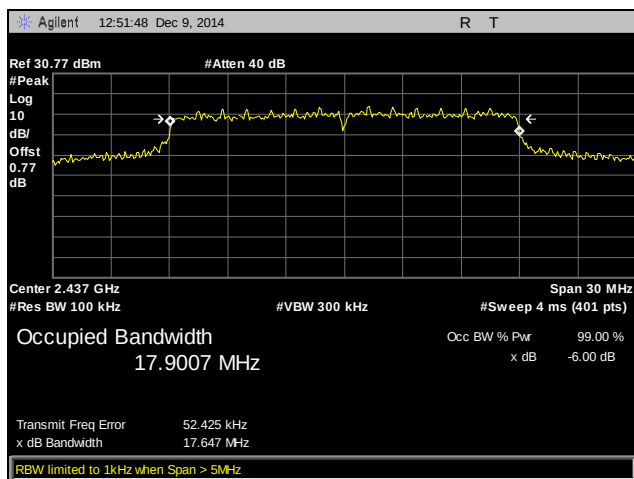


Plot 19. 6 dB Occupied Bandwidth, High Channel, 802.11g 40 MHz

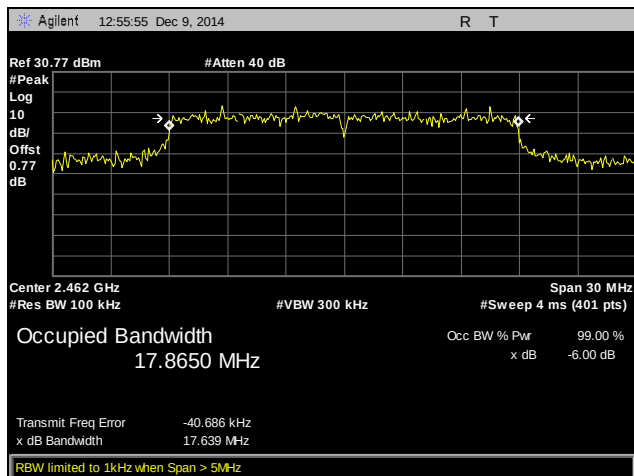
6 dB Occupied Bandwidth Test Results, 802.11n 20 MHz, Port L



Plot 20. 6 dB Occupied Bandwidth, Low Channel, 802.11n 20 MHz, Port L

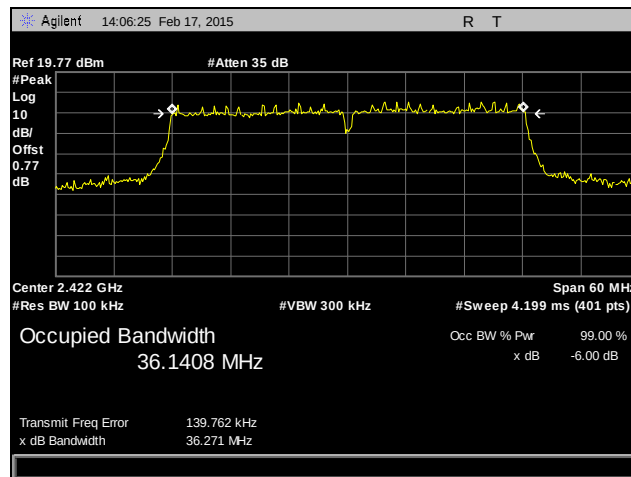


Plot 21. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 20 MHz, Port L

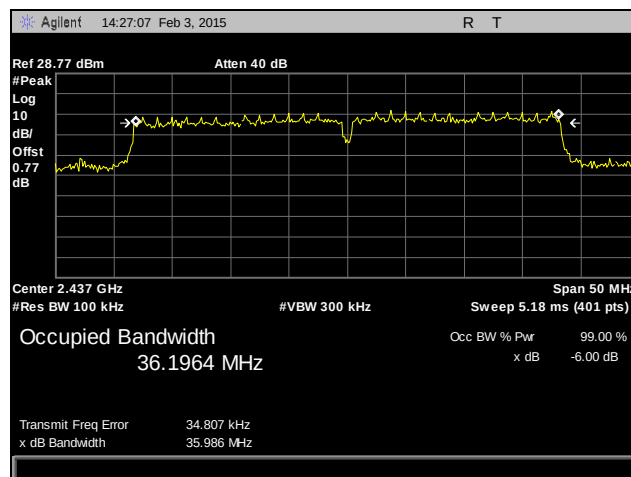


Plot 22. 6 dB Occupied Bandwidth, High Channel, 802.11n 20 MHz, Port L

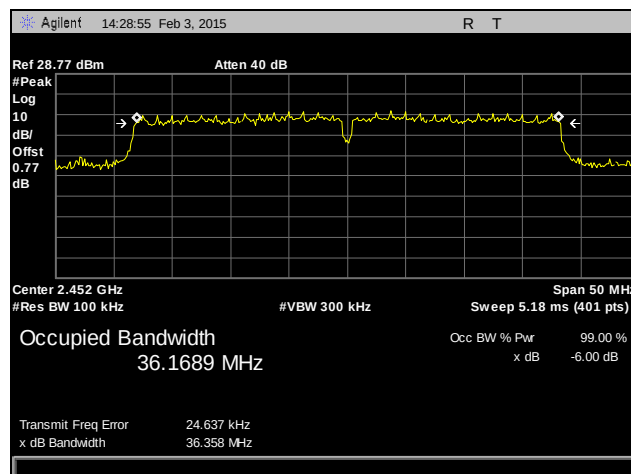
6 dB Occupied Bandwidth Test Results, 802.11n 40 MHz, Port L



Plot 23. 6 dB Occupied Bandwidth, Low Channel, 802.11n 40 MHz, Port L

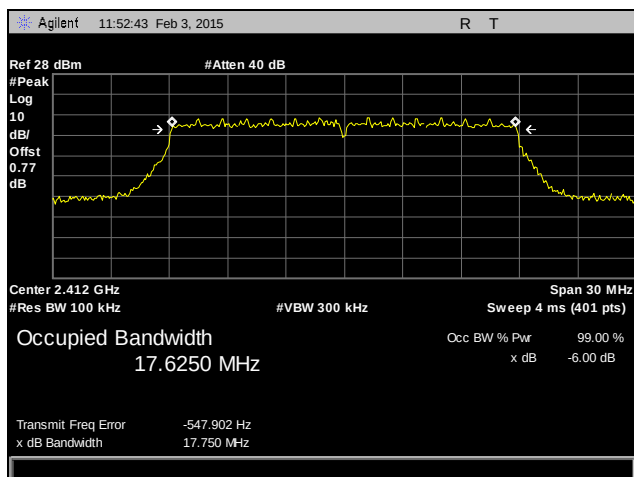


Plot 24. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 40 MHz, Port L

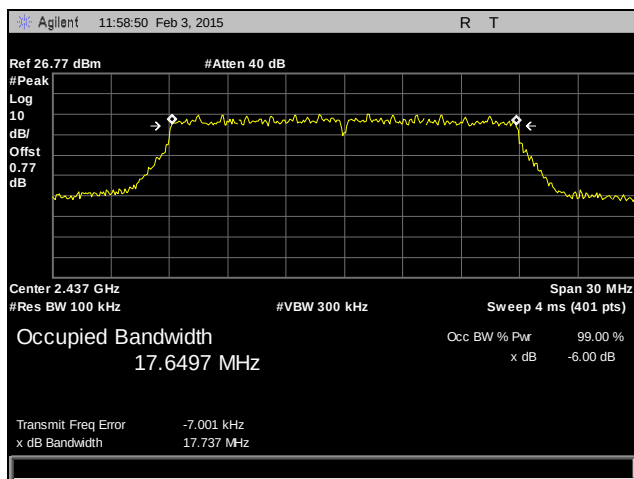


Plot 25. 6 dB Occupied Bandwidth, High Channel, 802.11n 40 MHz, Port L

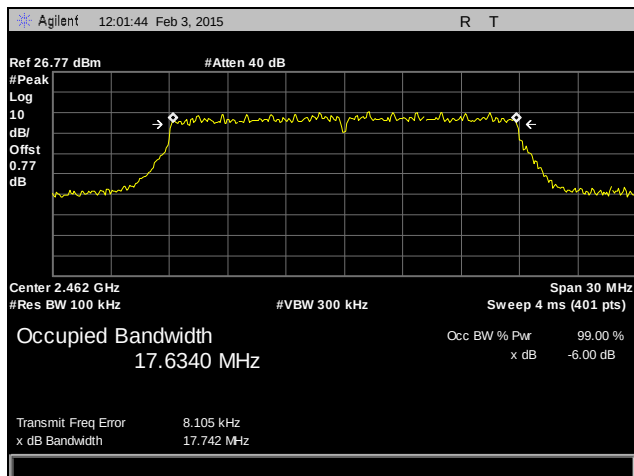
6 dB Occupied Bandwidth Test Results, 802.11n 20 MHz, Port M



Plot 26. 6 dB Occupied Bandwidth, Low Channel, 802.11n 20 MHz, Port M

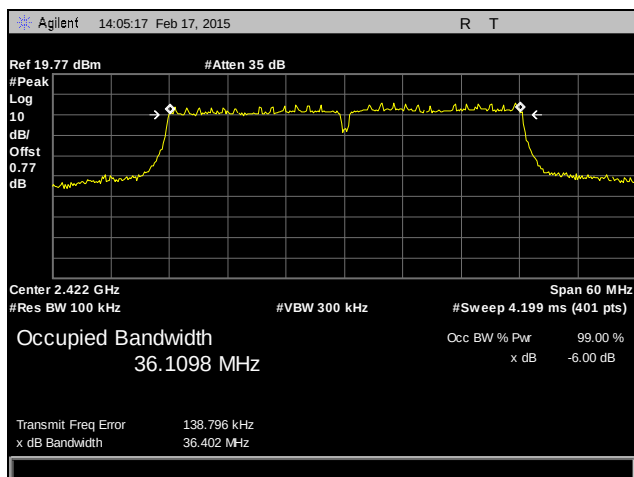


Plot 27. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 20 MHz, Port M

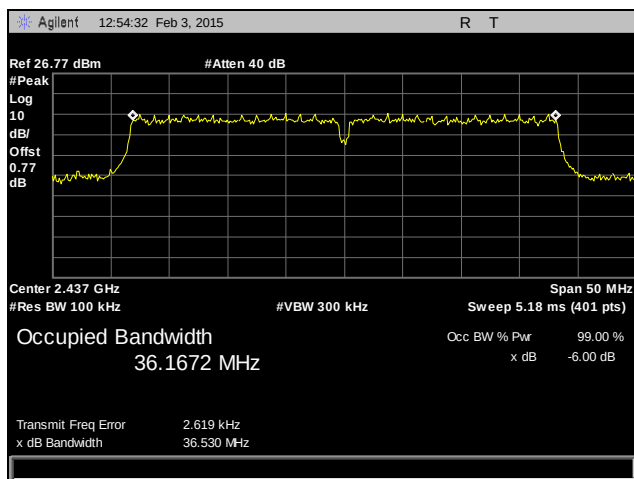


Plot 28. 6 dB Occupied Bandwidth, High Channel, 802.11n 20 MHz, Port M

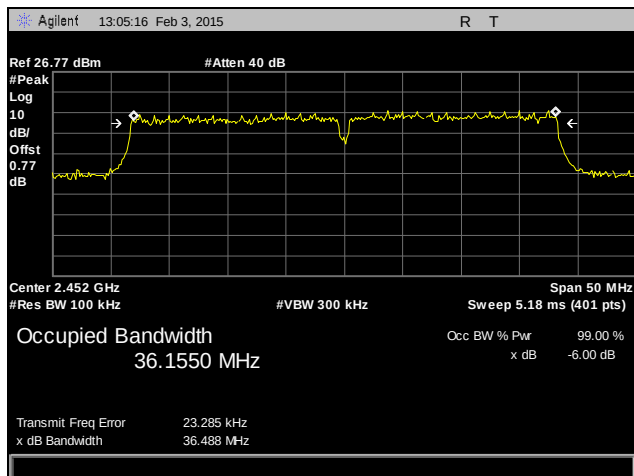
6 dB Occupied Bandwidth Test Results, 802.11n 40 MHz, Port M



Plot 29. 6 dB Occupied Bandwidth, Low Channel, 802.11n 40 MHz, Port M

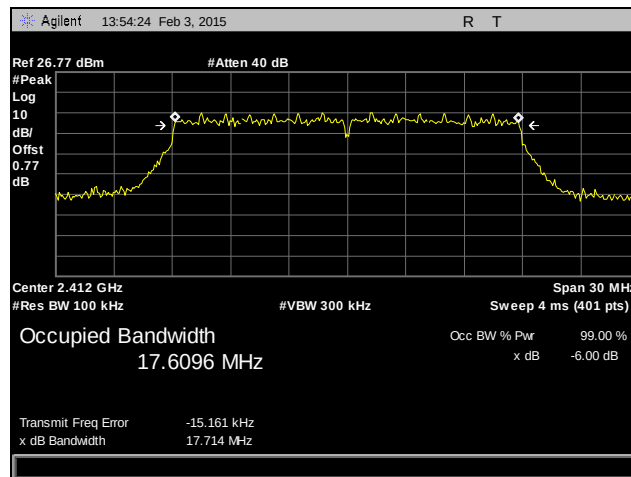


Plot 30. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 40 MHz, Port M

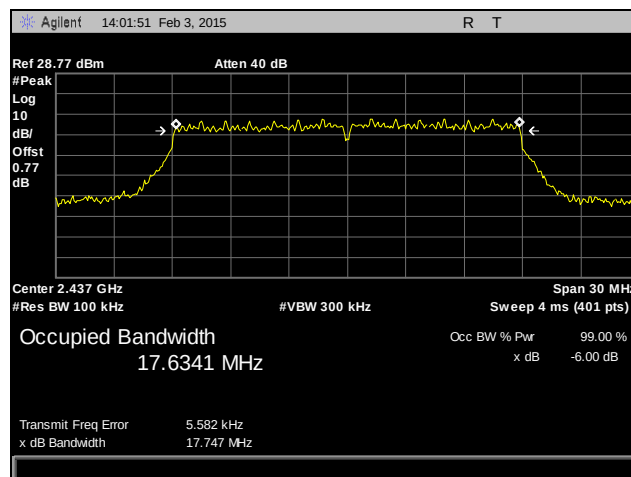


Plot 31. 6 dB Occupied Bandwidth, High Channel, 802.11n 40 MHz, Port M

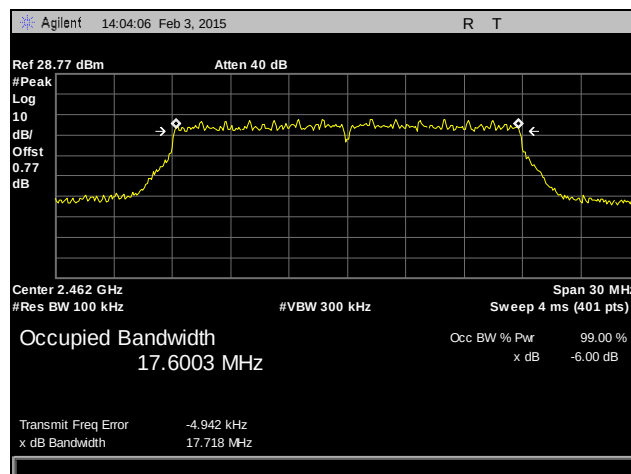
6 dB Occupied Bandwidth Test Results, 802.11n 20 MHz, Port R



Plot 32. 6 dB Occupied Bandwidth, Low Channel, 802.11n 20 MHz, Port R

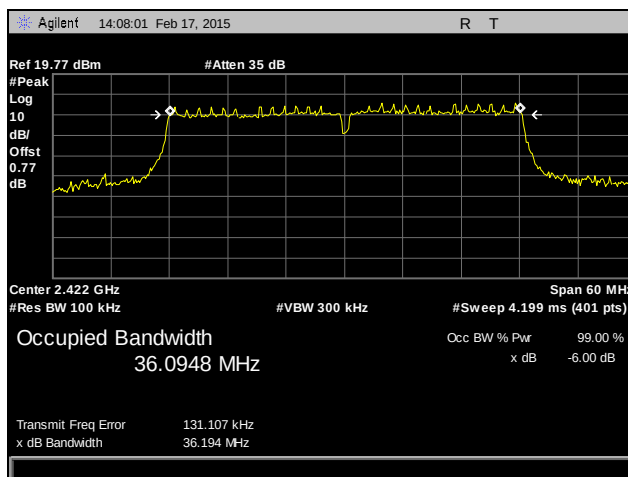


Plot 33. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 20 MHz, Port R

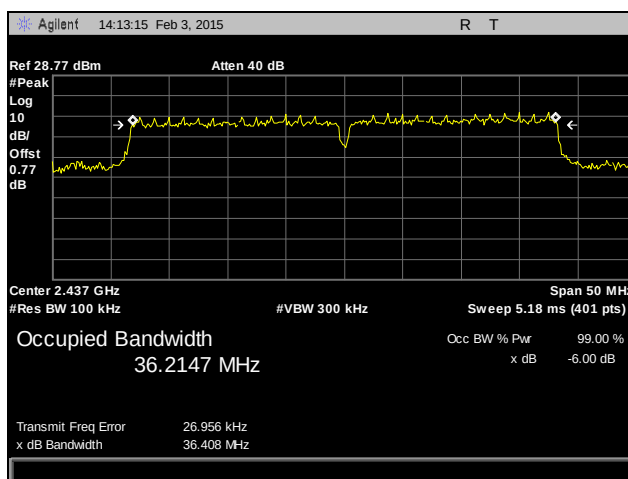


Plot 34. 6 dB Occupied Bandwidth, High Channel, 802.11n 20 MHz, Port R

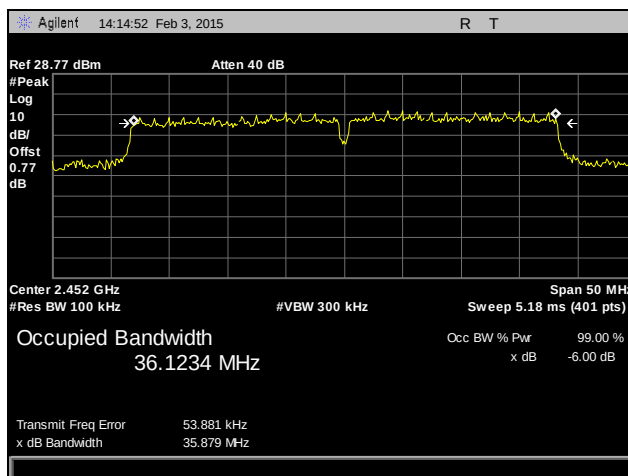
6 dB Occupied Bandwidth Test Results, 802.11n 40 MHz, Port R



Plot 35. 6 dB Occupied Bandwidth, Low Channel, 802.11n 40 MHz, Port R



Plot 36. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 40 MHz, Port R



Plot 37. 6 dB Occupied Bandwidth, High Channel, 802.11n 40 MHz, Port R

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 23. Output Power Requirements from §15.247(b)

§15.247(b)(4): The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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): Andy Shen and Ajax Khan

Test Date(s): 12/11/14

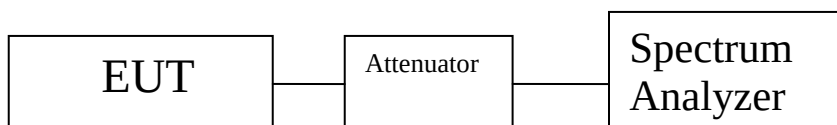


Figure 3. Peak Power Output Test Setup

Peak Power Output Test Results

Peak Conducted Output Power – Directional MIMO Panel Antenna			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
802.11b Port 2.4GHz-L	Low	2412	18.51
	Mid	2437	18.33
	High	2462	18.65
802.11g 20MHz Port 2.4GHz-L	Low	2412	18.37
	Mid	2437	18.31
	High	2462	18.36
802.11g 40MHz Port 2.4GHz-L	Low	2422	18.53
	Mid	2437	18.51
	High	2462	18.47
802.11n 20 MHz Port 2.4GHz-L	Low	2412	13.77
	Mid	2437	13.61
	High	2462	13.51
802.11n 20 MHz Port 2.4GHz-R	Low	2412	13.56
	Mid	2437	13.42
	High	2462	13.44
802.11n 20MHz Port 2.4GHz-M	Low	2412	13.56
	Mid	2437	13.64
	High	2462	13.62
802.11n 40MHz Port 2.4GHz-L	Low	2422	13.82
	Mid	2437	13.75
	High	2452	13.75
802.11n 40 MHz Port 2.4GHz-R	Low	2422	13.78
	Mid	2437	13.81
	High	2452	13.91
802.11n 40 MHz Port 2.4GHz-M	Low	2422	13.27
	Mid	2437	13.62
	High	2452	13.78

Table 24. Peak Power Output, Test Results, 12.5 dBi Panel Antenna

Summed Peak Conducted Output Power – Directional MIMO Panel Antenna			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
802.11n 20 MHz Summed	Low	2412	18.40
	Mid	2437	18.33
	High	2462	18.30
802.11n 40 MHz Summed	Low	2422	18.40
	Mid	2437	18.50
	High	2452	18.59

Table 25. Peak Power Output, Test Results, Summed, 12.5 dBi Panel Antenna

Note 1: 2.4GHz effective antenna Gain for Directional MIMO Panel Antenna 1211-PA = 12.5dBi + 10*Log (3) = 17.27dBi. 802.11n 20/40MHz Peak Output Power limit per port = 1000mW / 3 ports = 333.333 mW per port. Convert 333.333 mW to dBm = 10 log (333.333mW) = 25.23 dBm per port. 802.11n mode 40MHz/20MHz Limit per port = 25.23 dBm - (17.27 dBi - 6dBi) = 13.96 dBm 6dBi is reference antenna gain for 1W limit.

Note 2: 802.11b/g mode limit per port = 30dBm - (17.27dBi - 6 dBi) = 18.73 dBm.

Peak Conducted Output Power – Outdoor Dual band Omni directional Antenna			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
802.11b Port 2.4GHz-L	Low	2412	24.61
	Mid	2437	24.75
	High	2462	24.31
802.11g 20MHz Port 2.4GHz-L	Low	2412	24.75
	Mid	2437	24.61
	High	2462	24.91
802.11g 40MHz Port 2.4GHz-L	Low	2422	20.03
	Mid	2437	19.97
	High	2462	19.86
802.11n 20 MHz Port 2.4GH-L	Low	2412	20.19
	Mid	2437	20.13
	High	2462	20.12
802.11n 20 MHz Port 2.4GHz-R	Low	2412	20.34
	Mid	2437	20.24
	High	2462	20.1
802.11n 20 MHz Port 2.4GHz-M	Low	2412	20.18
	Mid	2437	20.2
	High	2462	20.02
802.11n 40 MHz Port 2.4GH-L	Low	2422	19.96
	Mid	2437	20.06
	High	2452	19.81
802.11n 40 MHz Port Port2.4GHz-R	Low	2422	20.18
	Mid	2437	19.97
	High	2452	19.86
802.11n 40 MHz Port 2.4GHz-M	Low	2422	20.11
	Mid	2437	20.17
	High	2452	20.15

Table 26. Peak Power Output, Test Results, 6 dBi Outdoor Omni-Directional Antenna

Summed Conducted Output Power – Outdoor Dual band Omni directional antenna			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
802.11n 20 MHz Summed	Low	2412	25.01
	Mid	2437	24.96
	High	2462	24.85
802.11n 40 MHz Summed	Low	2422	24.86
	Mid	2437	24.84
	High	2452	23.02

Table 27. Peak Power Output, Test Results, Summed, 6 dBi Outdoor Omni-Directional Antenna

Note 1: The Effective antenna gain = 6 dBi + 10 log (3) = 10.77 dBi. 802.11n mode 40MHz/20MHz Limit per port = 25.23 dBm - (10.77 dBi - 6dBi) = 20.45 dBm 6dBi is reference antenna gain for 1W limit.

Note 2: 802.11b/g mode limit per port = 30dBm - (10.77 dBi - 6 dBi) = 25.23 dBm.

Peak Conducted Output Power – Outdoor Omni Directional Antenna			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
802.11b Port 2.4GHz-L	Low	2412	22.77
	Mid	2437	22.76
	High	2462	22.6
802.11g 20MHz Port 2.4GHz -L	Low	2412	22.91
	Mid	2437	22.97
	High	2462	22.67
802.11g 40MHz Port 2.4GHz-L	Low	2422	18.2
	Mid	2437	18.26
	High	2452	18.12
802.11n 20 MHz Port 2.4GHz-R	Low	2412	17.72
	Mid	2437	17.71
	High	2462	17.82
802.11n 20 MHz Port 2.4GHz-M	Low	2412	18.12
	Mid	2437	18.23
	High	2462	18.12
802.11n 20 MHz Port 2.4GHz-M	Low	2412	18.37
	Mid	2437	18.3
	High	2462	18.24
802.11n 40 MHz Port 2.4GHz-L	Low	2422	17.97
	Mid	2437	18.03
	High	2452	17.99
802.11n 40 MHz Port 2.4GHz-R	Low	2422	18.03
	Mid	2437	18.15
	High	2452	18.24
802.11n 40 MHz Port 2.4GHz-M	Low	2422	18.14
	Mid	2437	18.23
	High	2452	18.28

Table 28. Peak Power Output, Test Results, 8 dBi Outdoor Omni Antenna

Summed Conducted Output Power – Outdoor Omni Directional antenna			
	Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
802.11n 20 MHz Summed	Low	2412	22.85
	Mid	2437	22.86
	High	2462	22.83
802.11n 40 MHz Summed	Low	2422	22.82
	Mid	2437	22.91
	High	2452	21.27

Table 29. Peak Power Output, Test Results, Summed, 8 dBi Outdoor Omni Antenna

Note 1: The Effective antenna gain = 8 dBi + 10 log (3) = 12.77 dBi. 802.11n mode 40MHz/20MHz Limit per port = 25.23 dBm - (12.77 dBi - 6dBi) = 18.46 dBm 6dBi is reference antenna gain for 1W limit.

Note 2: 802.11b/g mode limit per port = 30dBm - (12.77 dBi - 6 dBi) = 23.23 dBm.

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 30. 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 31.

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

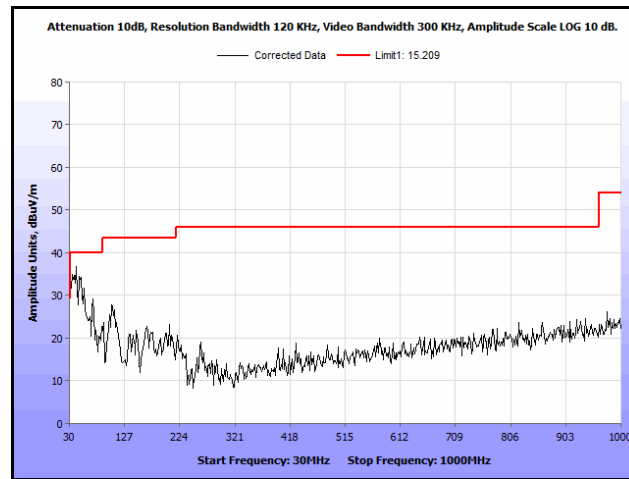
Test Procedures: The transmitter was turned on. A 2.4GHz notch filter was use to filter out the transmitting signal. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for both antenna correction factor and 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).

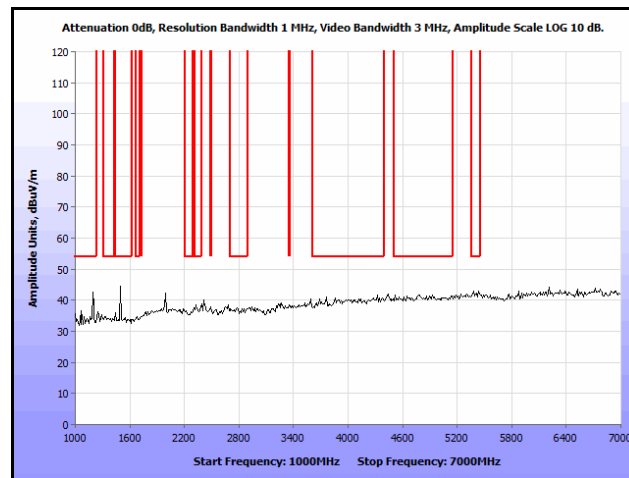
Test Engineer(s): Ajax Khan

Test Date(s): 01/12/15

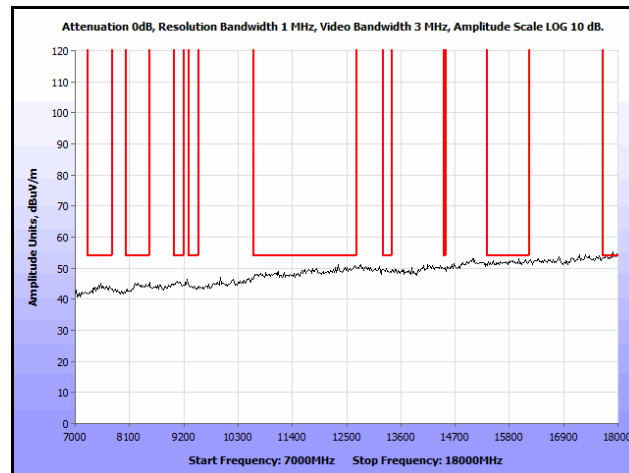
Radiated Spurious Emissions Test Results, 802.11b, ANT-O6ABGN-1211-PA



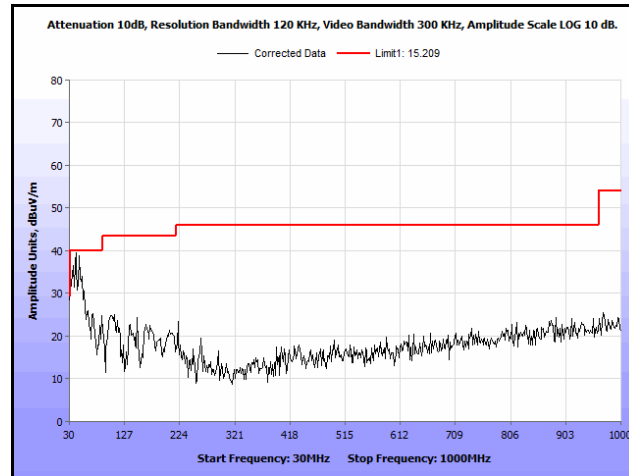
Plot 38. Radiated Spurious Emissions, Low Channel, 802.11b, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



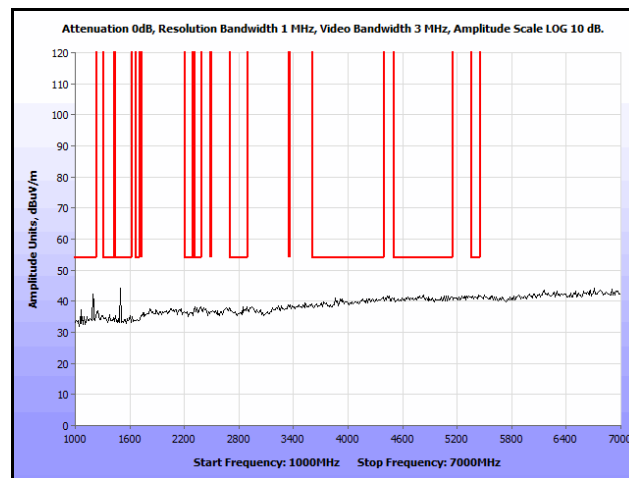
Plot 39. Radiated Spurious Emissions, Low Channel, 802.11b, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



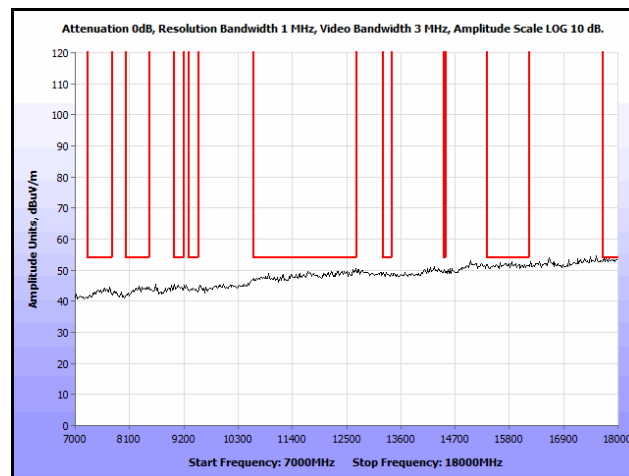
Plot 40. Radiated Spurious Emissions, Low Channel, 802.11b, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



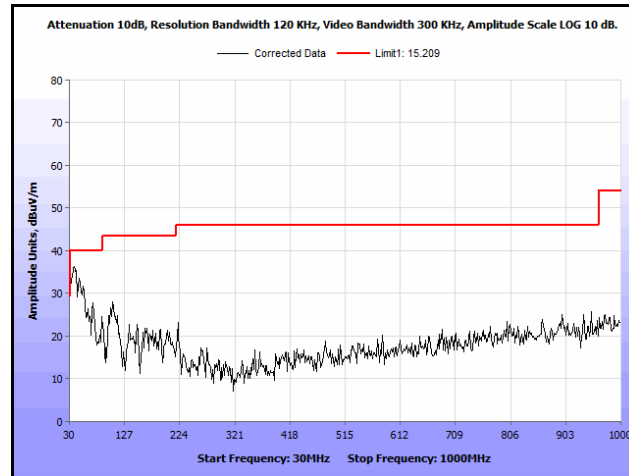
Plot 41. Radiated Spurious Emissions, Mid Channel, 802.11b, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



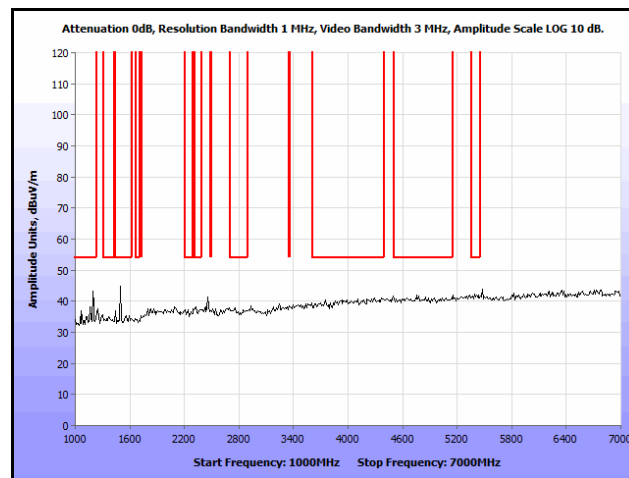
Plot 42. Radiated Spurious Emissions, Mid Channel, 802.11b, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



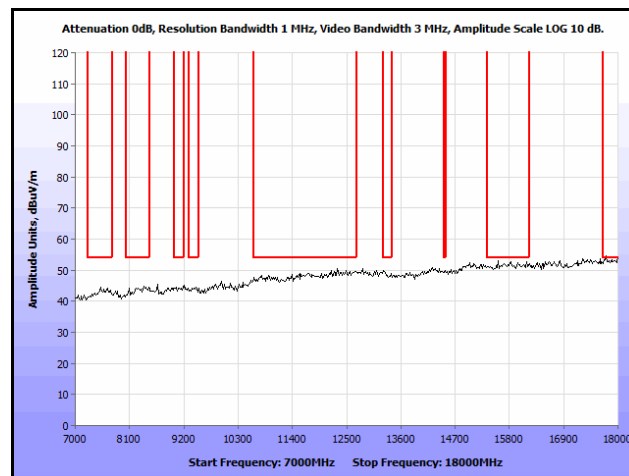
Plot 43. Radiated Spurious Emissions, Mid Channel, 802.11b, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



Plot 44. Radiated Spurious Emissions, High Channel, 802.11b, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA

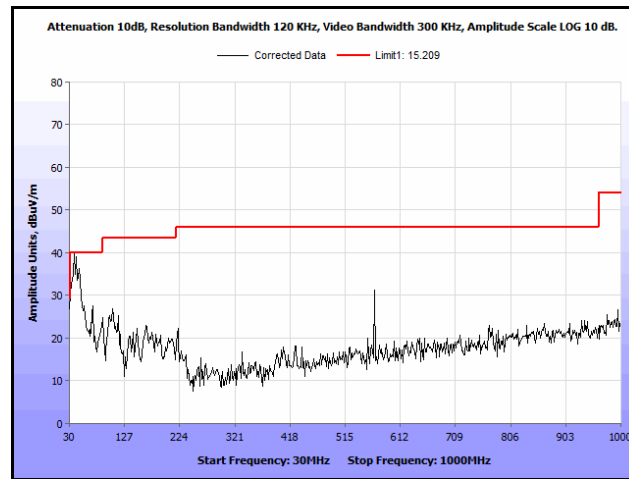


Plot 45. Radiated Spurious Emissions, High Channel, 802.11b, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA

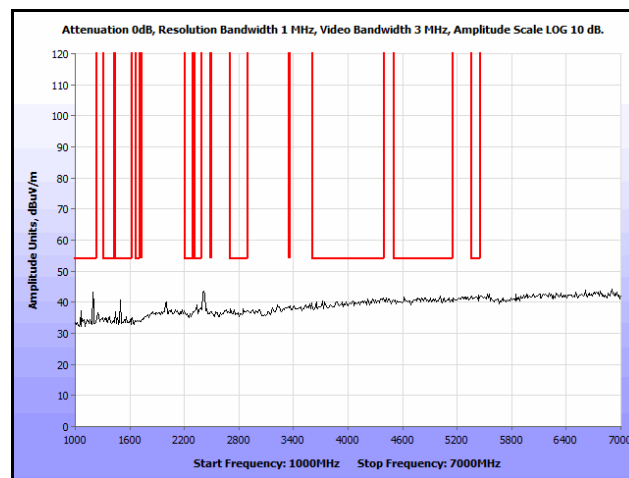


Plot 46. Radiated Spurious Emissions, High Channel, 802.11b, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA

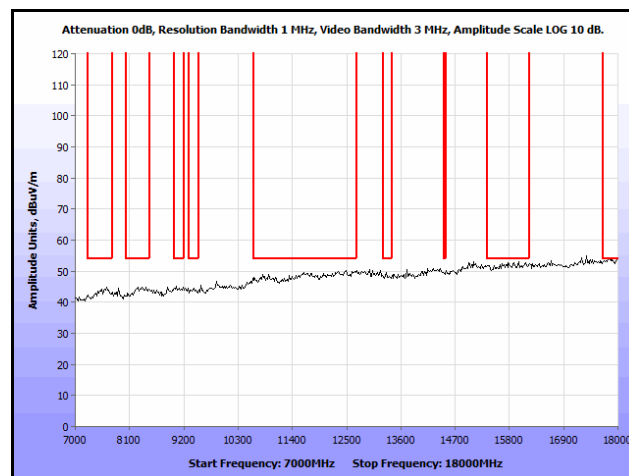
Radiated Spurious Emissions Test Results, 802.11g 20 MHz, ANT-O6ABGN-1211-PA



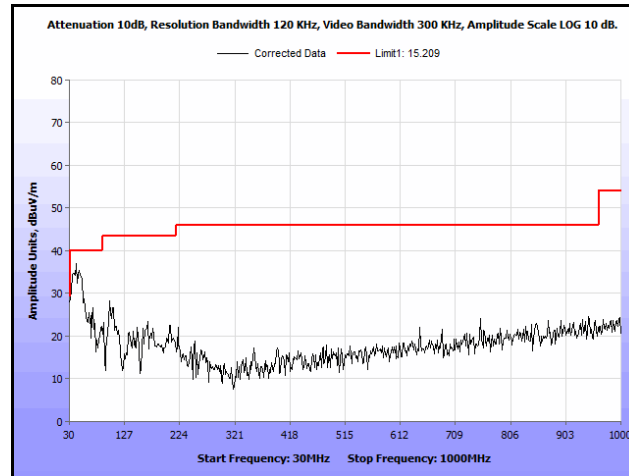
Plot 47. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



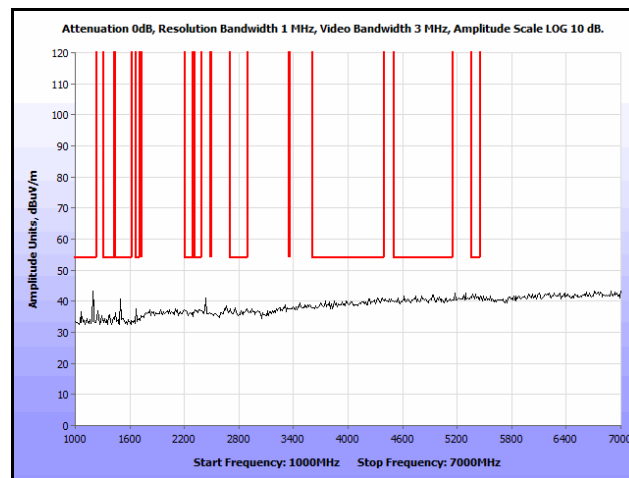
Plot 48. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



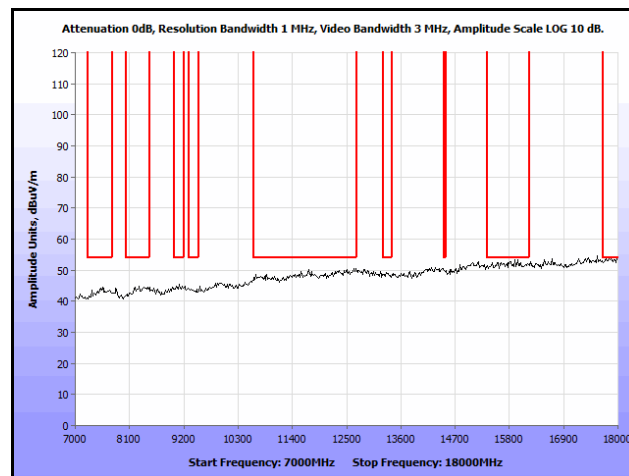
Plot 49. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



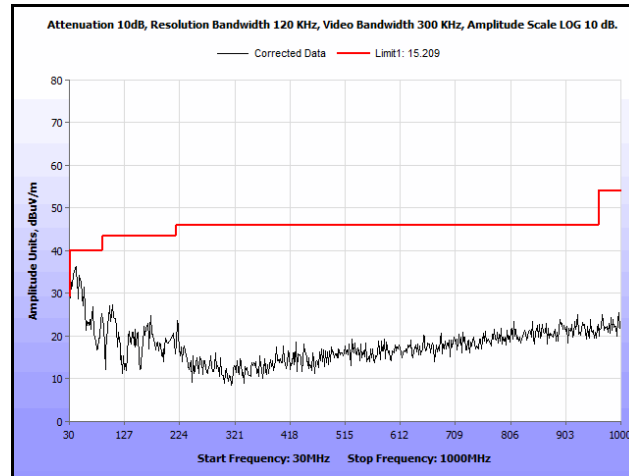
Plot 50. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



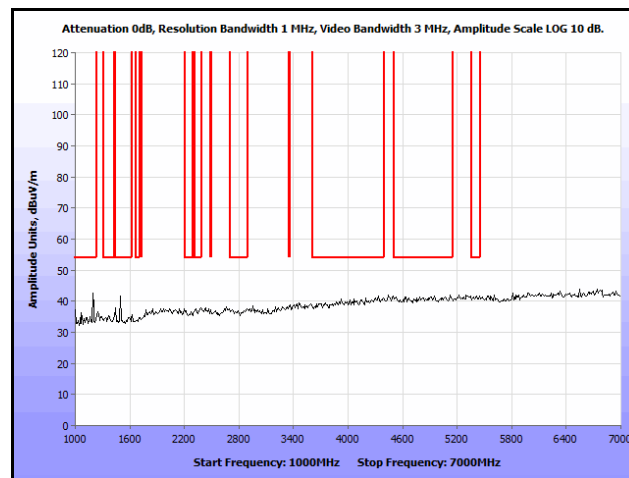
Plot 51. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



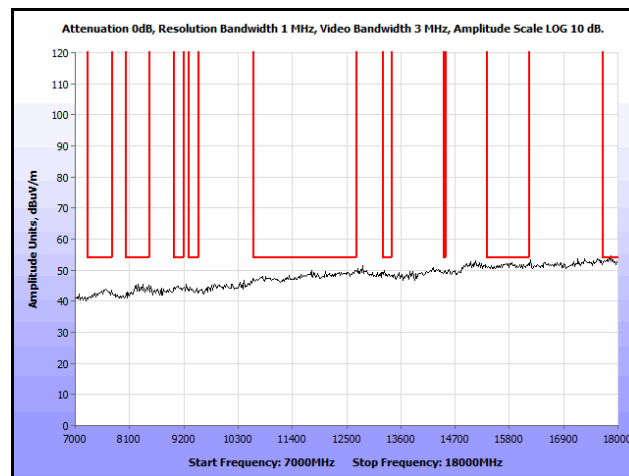
Plot 52. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



Plot 53. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA

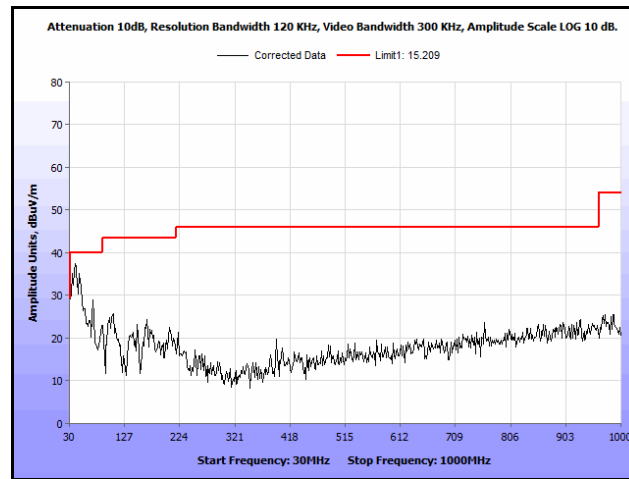


Plot 54. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA

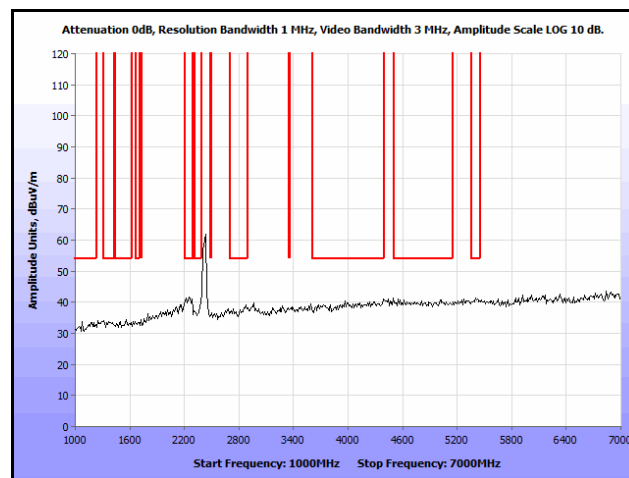


Plot 55. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA

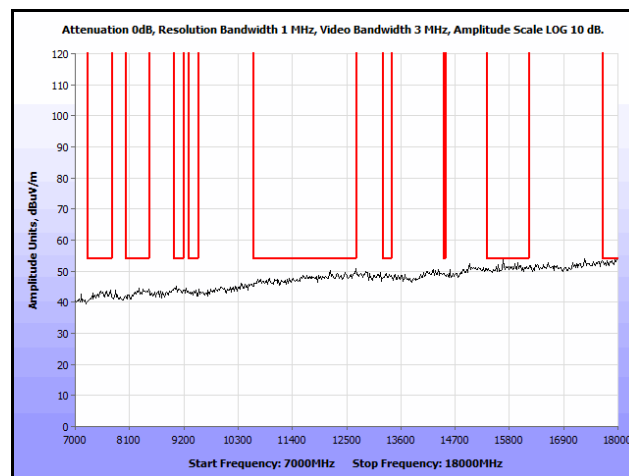
Radiated Spurious Emissions Test Results, 802.11g 40 MHz, ANT-O6ABGN-1211-PA



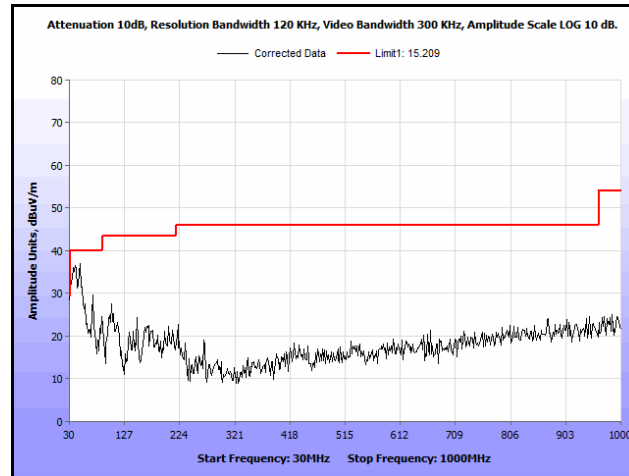
Plot 56. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



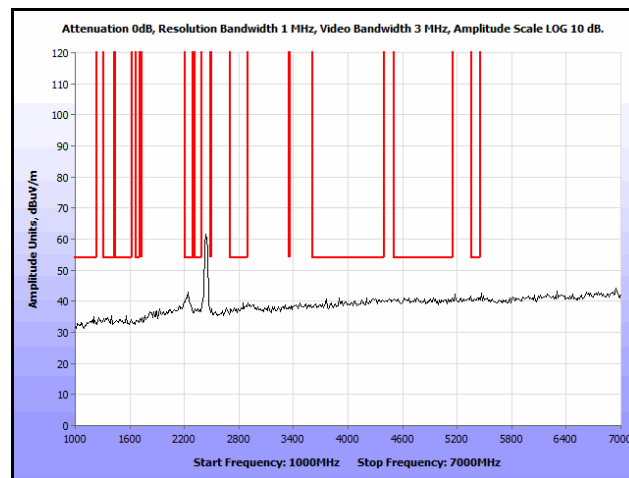
Plot 57. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



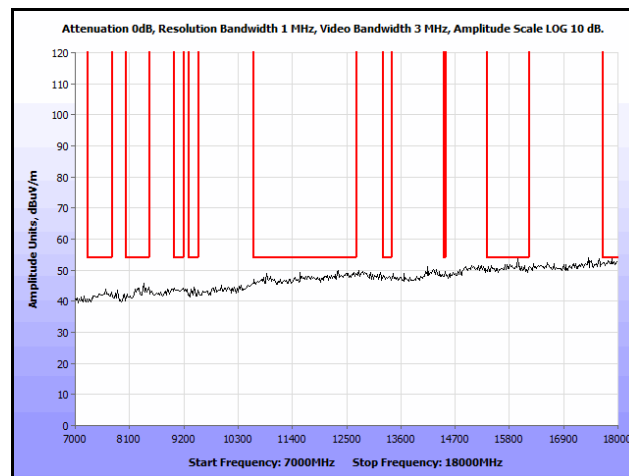
Plot 58. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



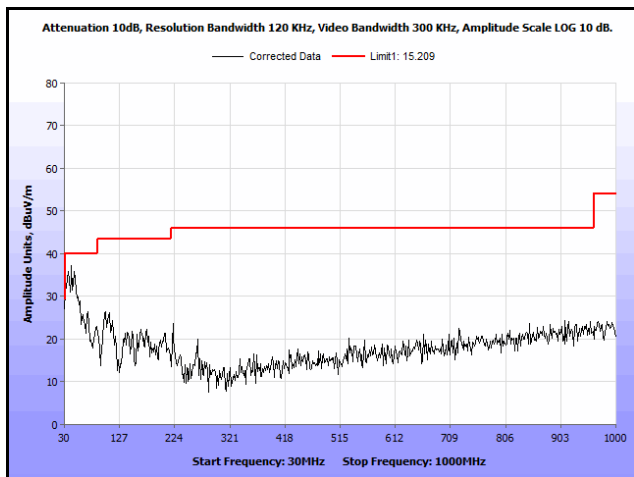
Plot 59. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



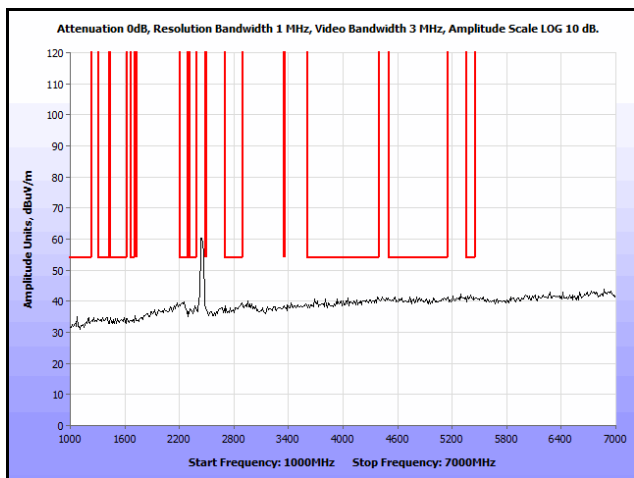
Plot 60. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



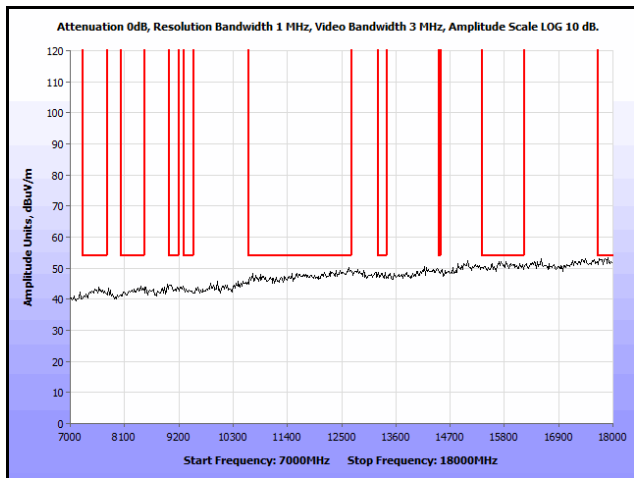
Plot 61. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



Plot 62. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA

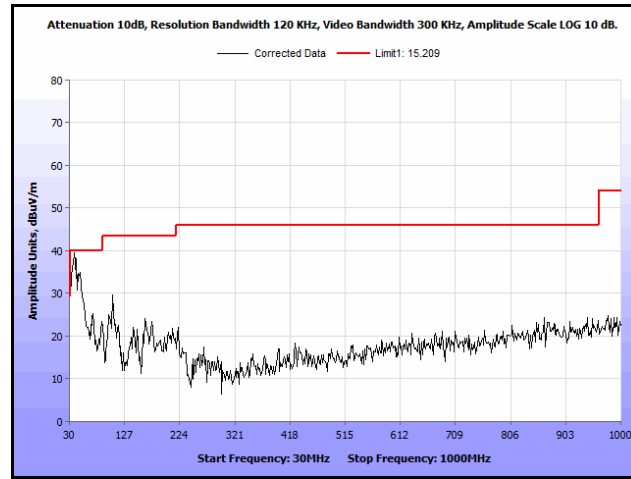


Plot 63. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA

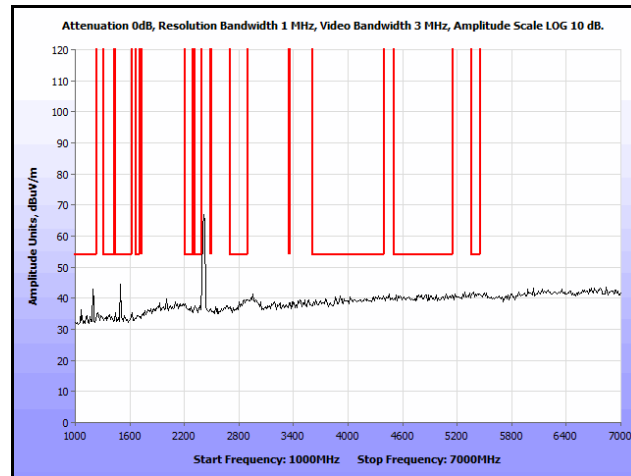


Plot 64. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA

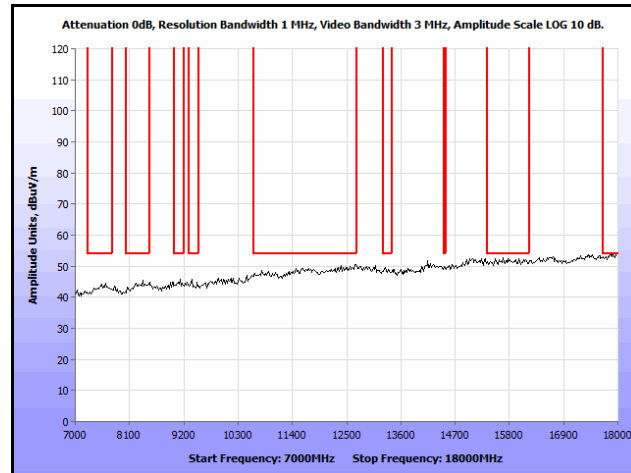
Radiated Spurious Emissions Test Results, 802.11n 20 MHz, ANT-O6ABGN-1211-PA



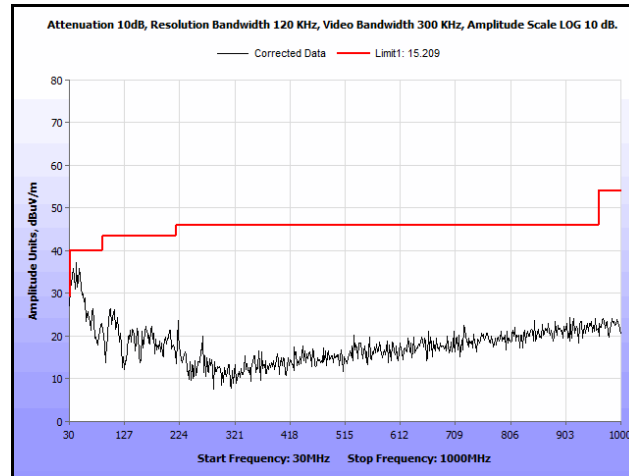
Plot 65. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



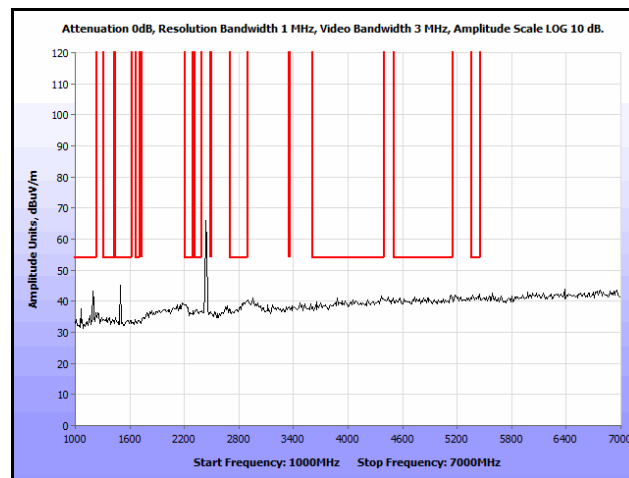
Plot 66. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



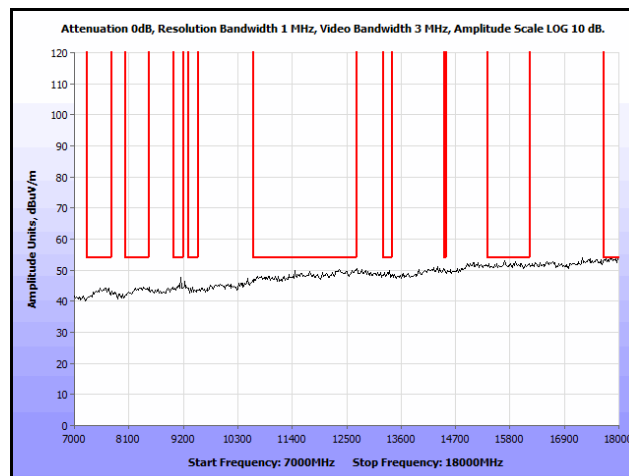
Plot 67. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



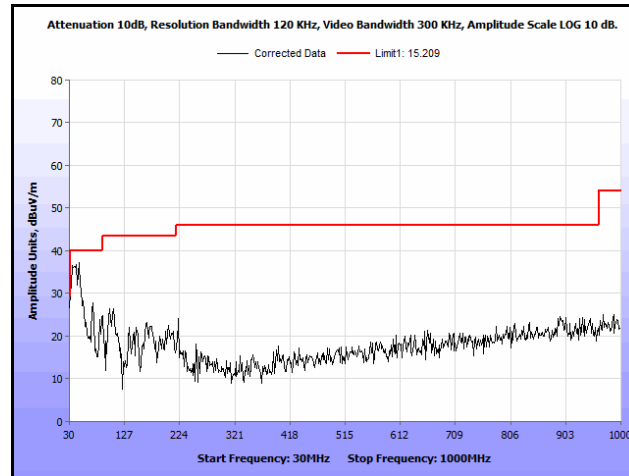
Plot 68. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



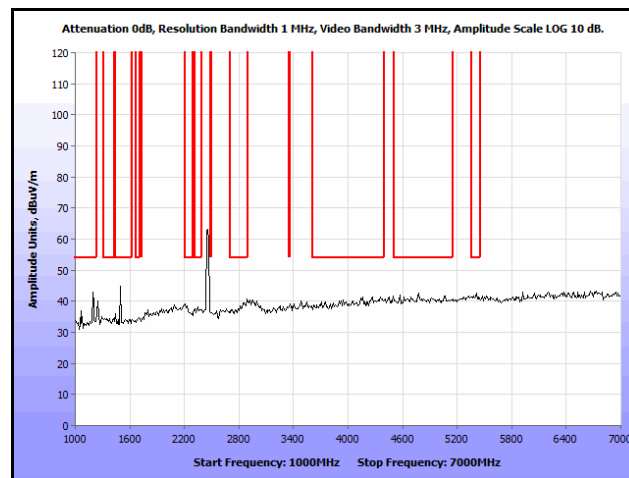
Plot 69. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



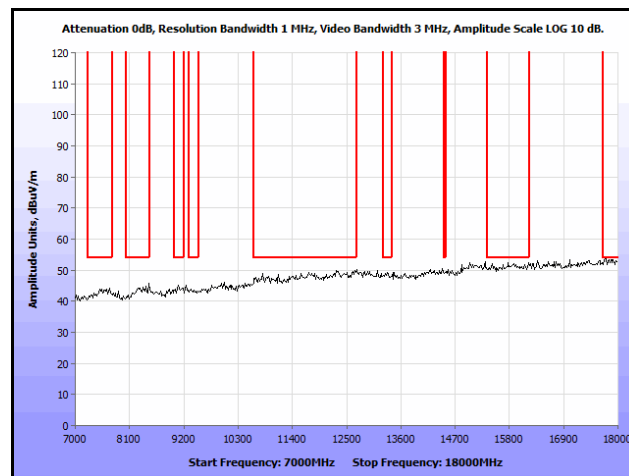
Plot 70. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



Plot 71. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA

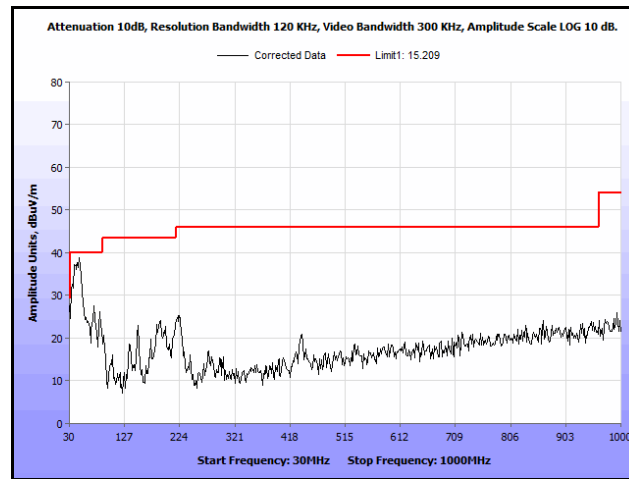


Plot 72. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA

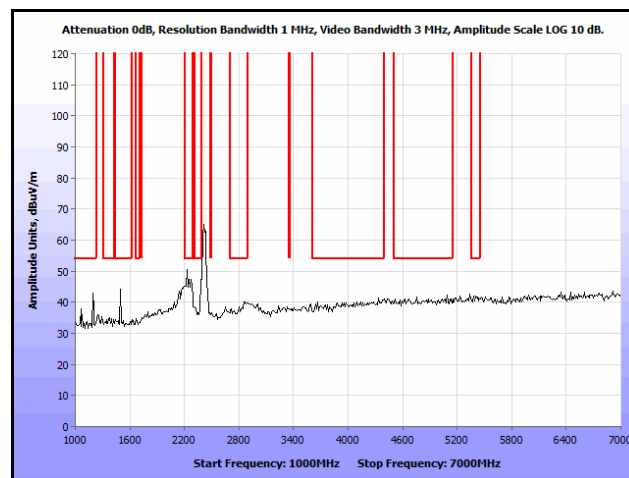


Plot 73. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA

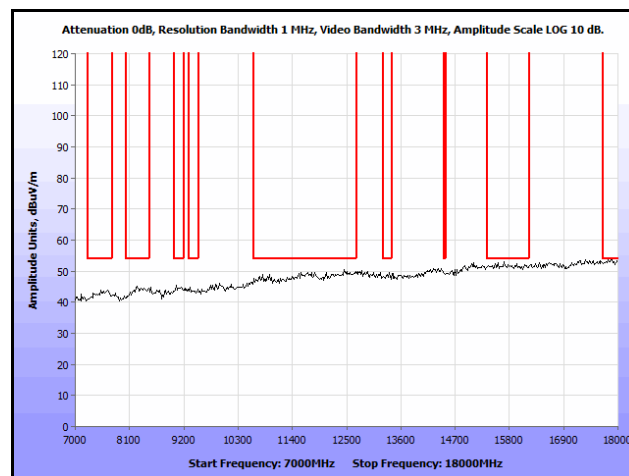
Radiated Spurious Emissions Test Results, 802.11n 40 MHz, ANT-O6ABGN-1211-PA



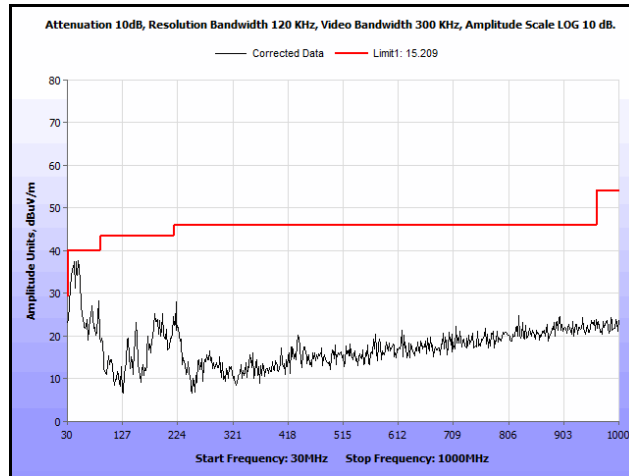
Plot 74. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



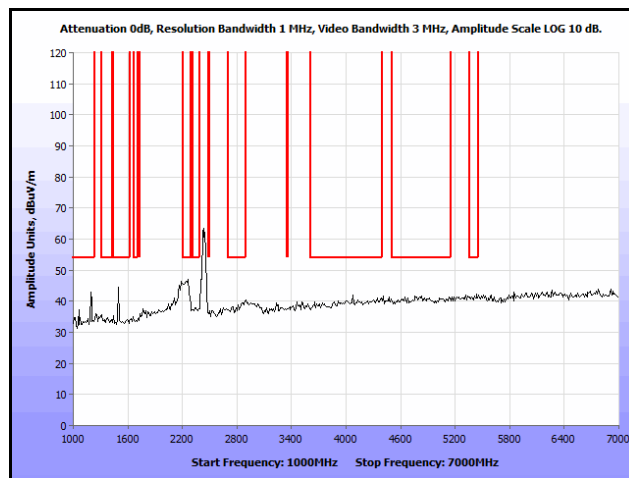
Plot 75. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



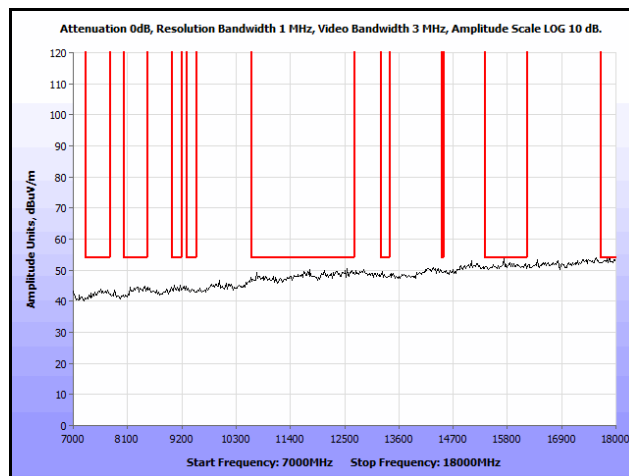
Plot 76. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



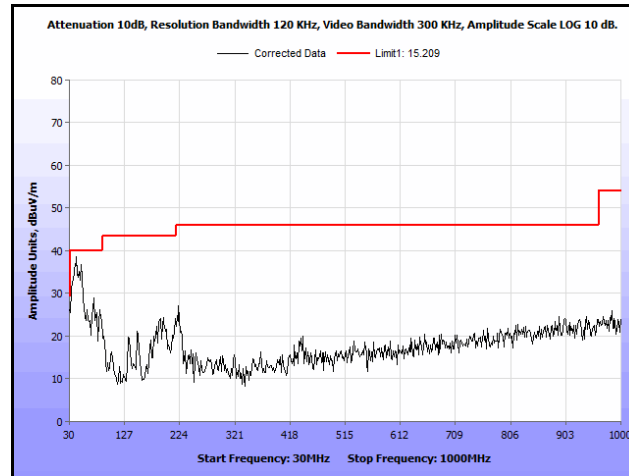
Plot 77. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA



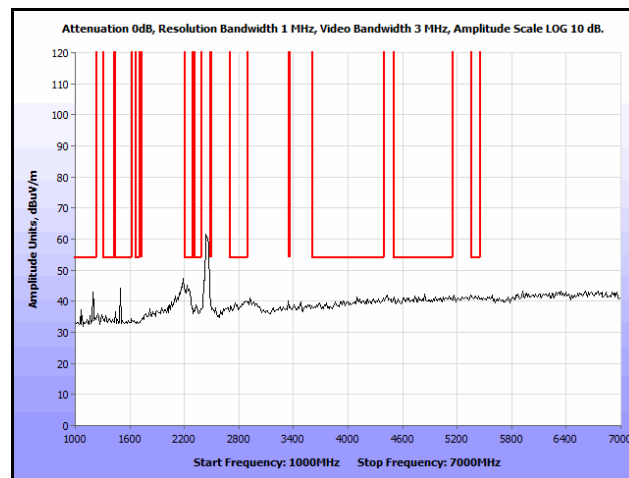
Plot 78. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA



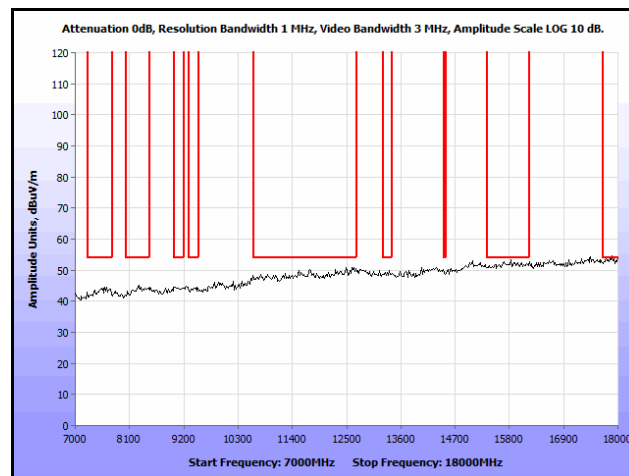
Plot 79. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA



Plot 80. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-1211-PA

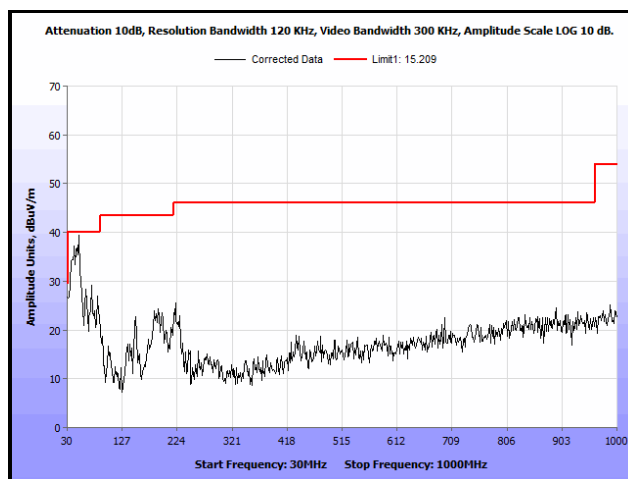


Plot 81. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-1211-PA

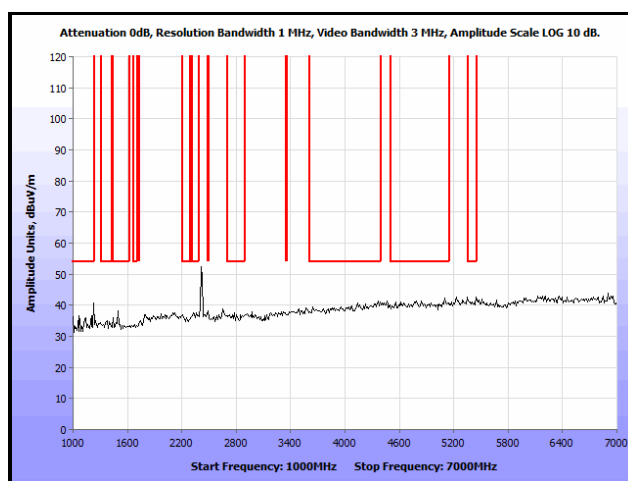


Plot 82. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-1211-PA

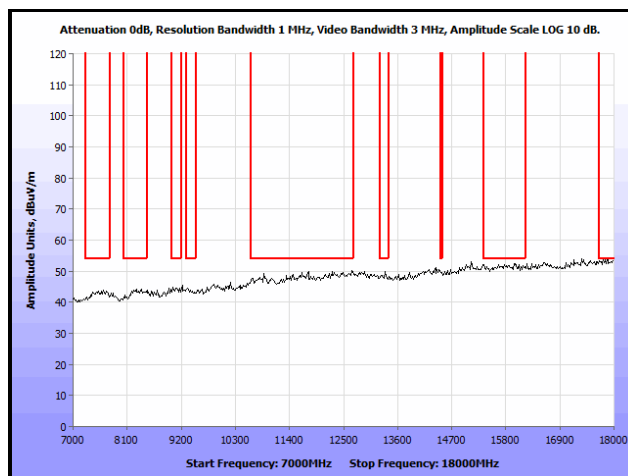
Radiated Spurious Emissions Test Results, 802.11b, ANT-O6ABGN-0606-O



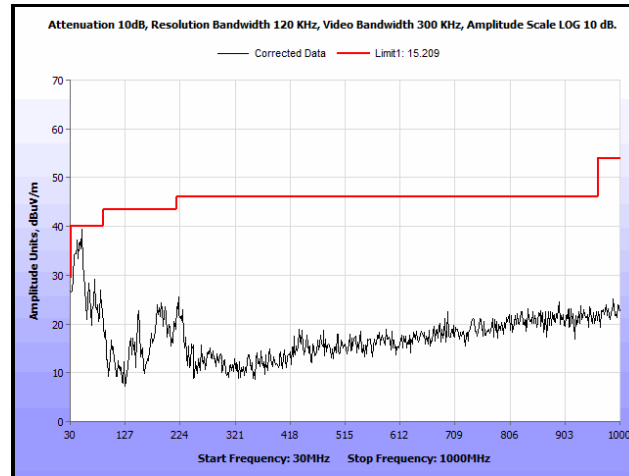
Plot 83. Radiated Spurious Emissions, Low Channel, 802.11b, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



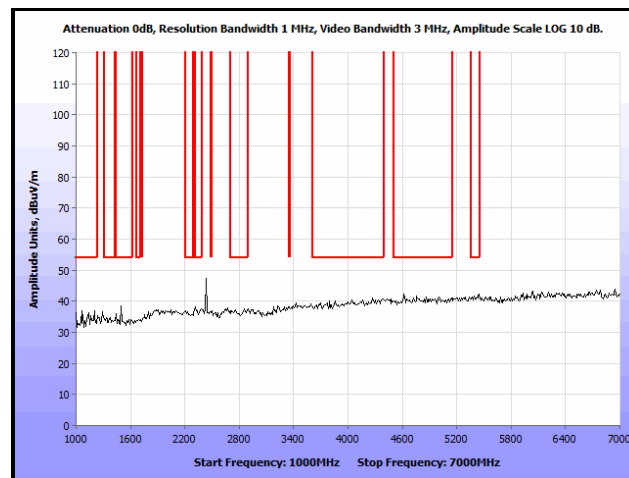
Plot 84. Radiated Spurious Emissions, Low Channel, 802.11b, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



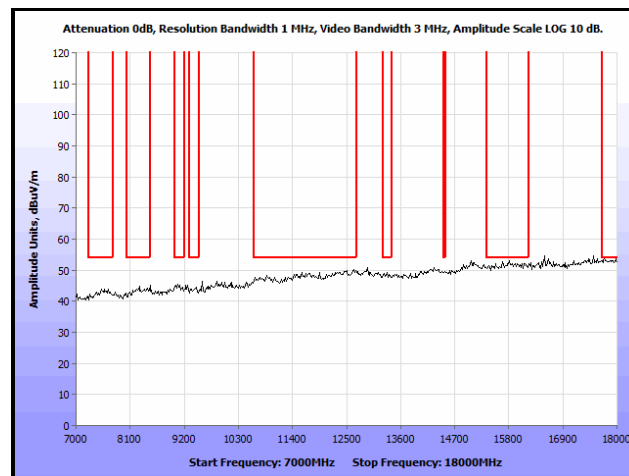
Plot 85. Radiated Spurious Emissions, Low Channel, 802.11b, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



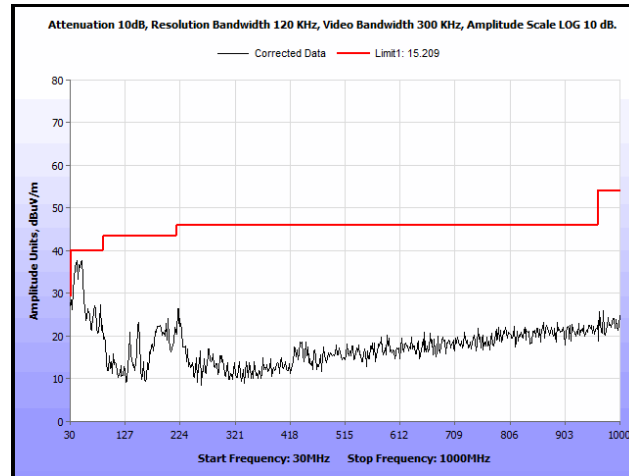
Plot 86. Radiated Spurious Emissions, Mid Channel, 802.11b, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



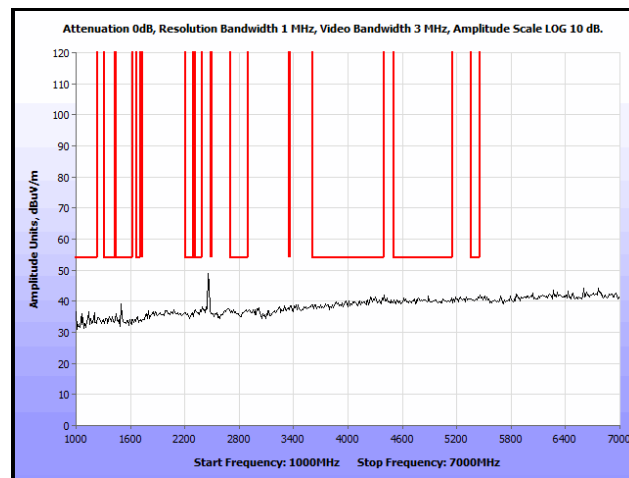
Plot 87. Radiated Spurious Emissions, Mid Channel, 802.11b, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



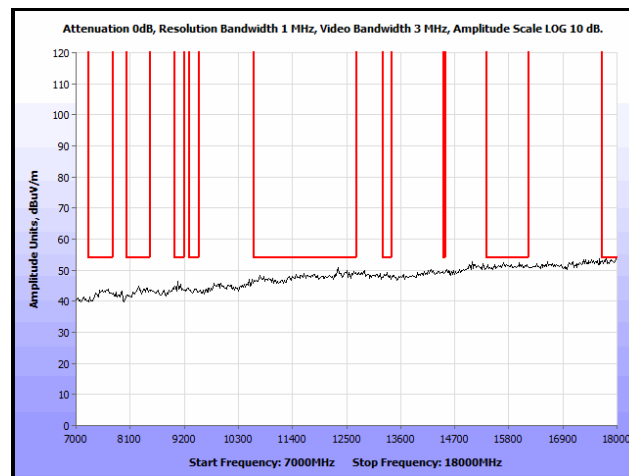
Plot 88. Radiated Spurious Emissions, Mid Channel, 802.11b, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



Plot 89. Radiated Spurious Emissions, High Channel, 802.11b, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O

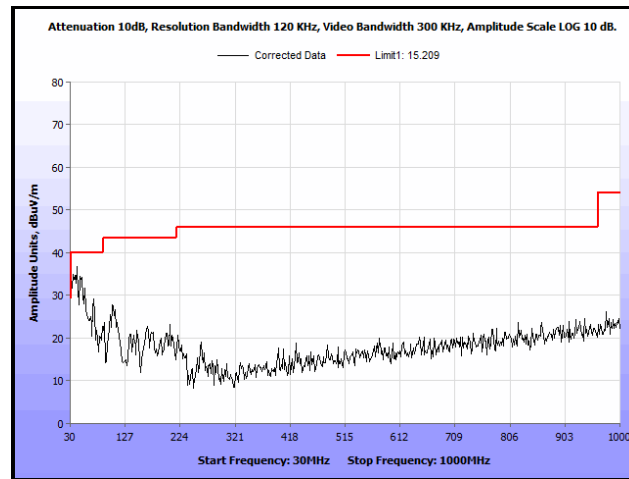


Plot 90. Radiated Spurious Emissions, High Channel, 802.11b, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O

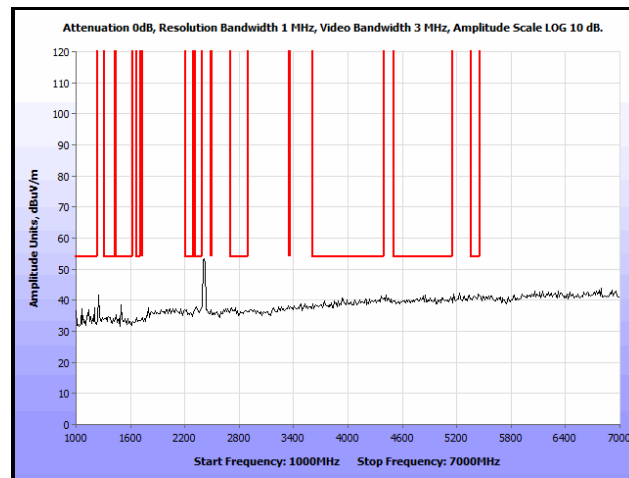


Plot 91. Radiated Spurious Emissions, High Channel, 802.11b, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O

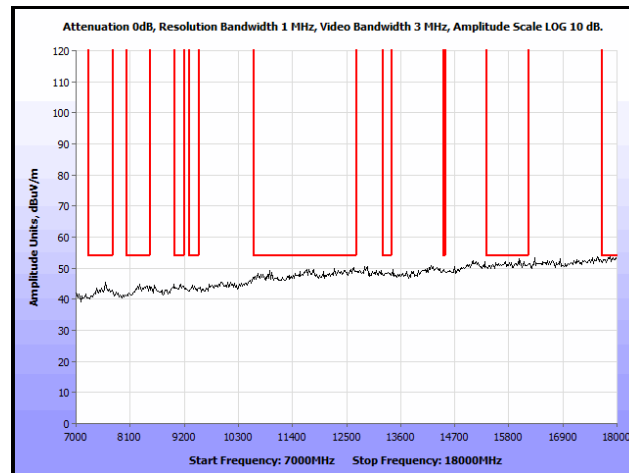
Radiated Spurious Emissions Test Results, 802.11g 20 MHz, ANT-O6ABGN-0606-O



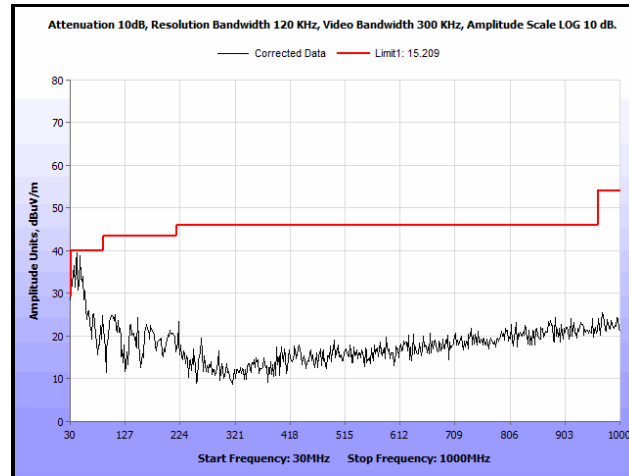
Plot 92. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



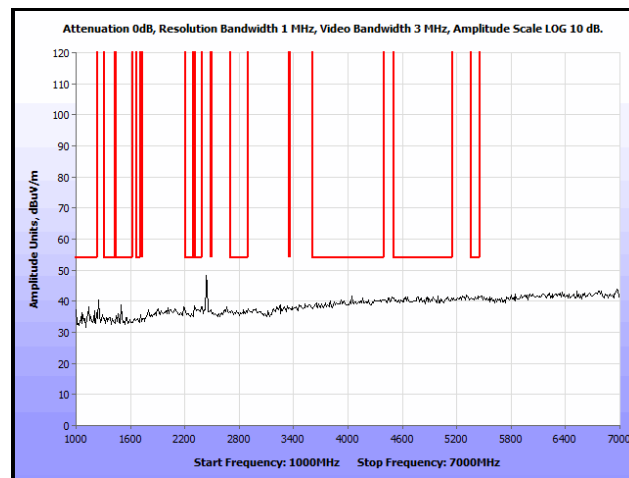
Plot 93. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



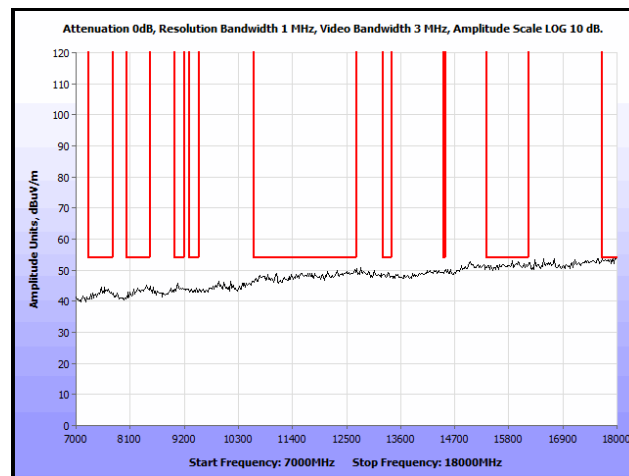
Plot 94. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



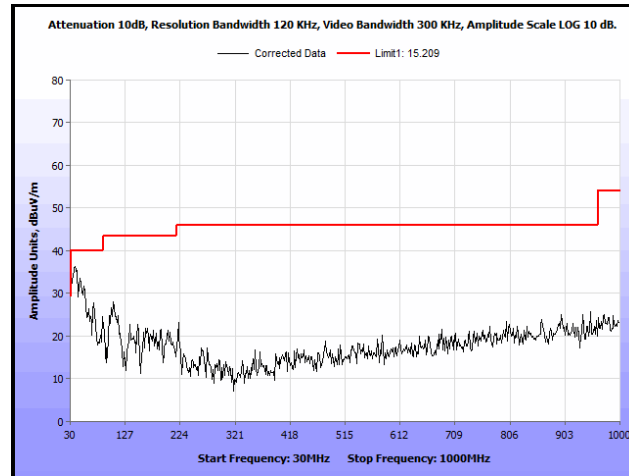
Plot 95. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



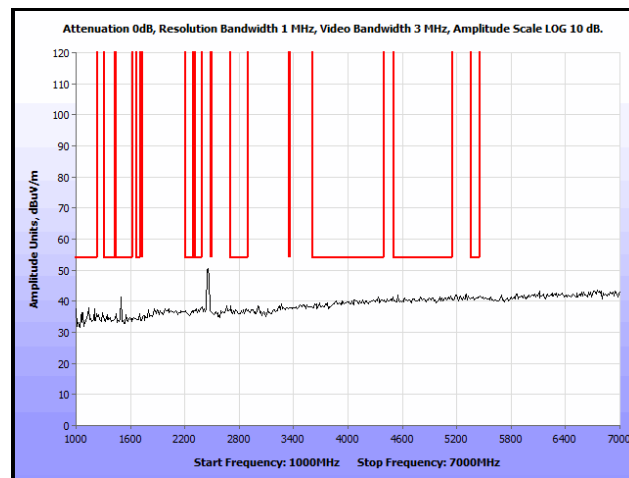
Plot 96. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



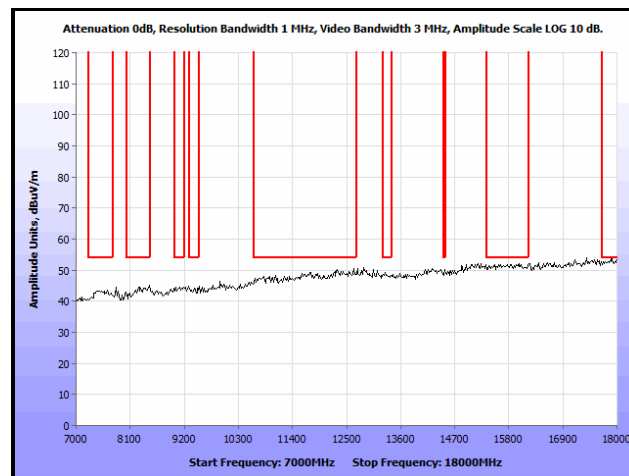
Plot 97. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



Plot 98. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O

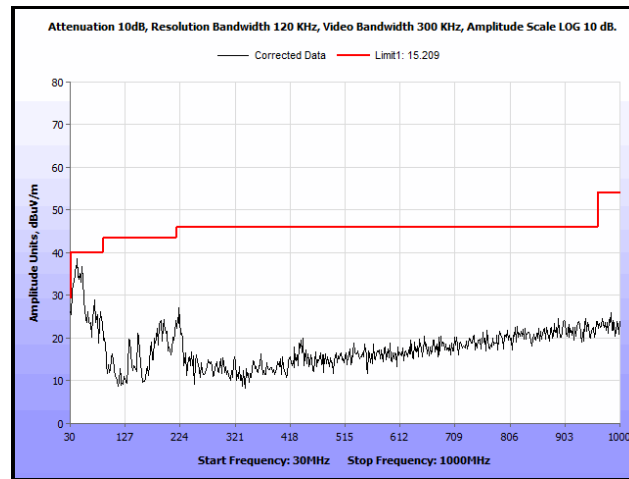


Plot 99. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O

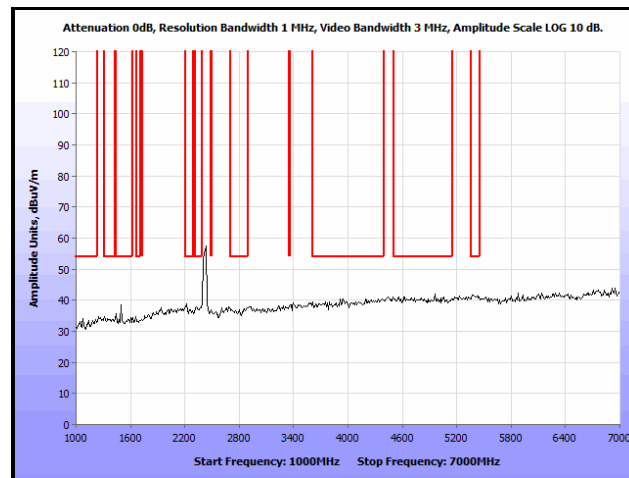


Plot 100. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O

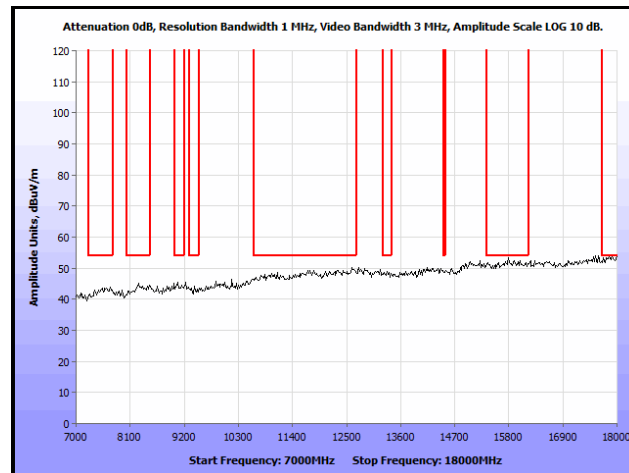
Radiated Spurious Emissions Test Results, 802.11g 40 MHz, ANT-O6ABGN-0606-O



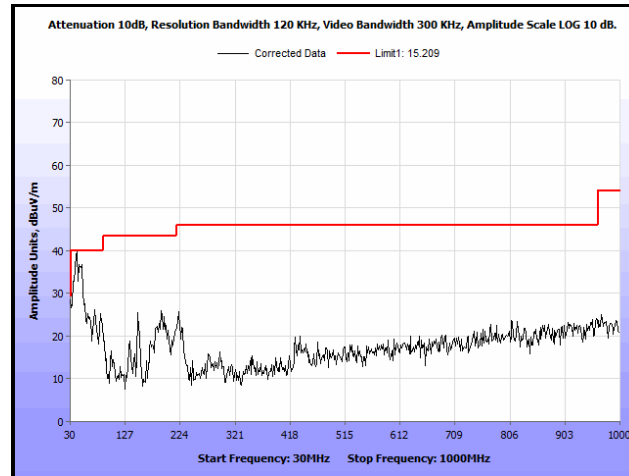
Plot 101. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



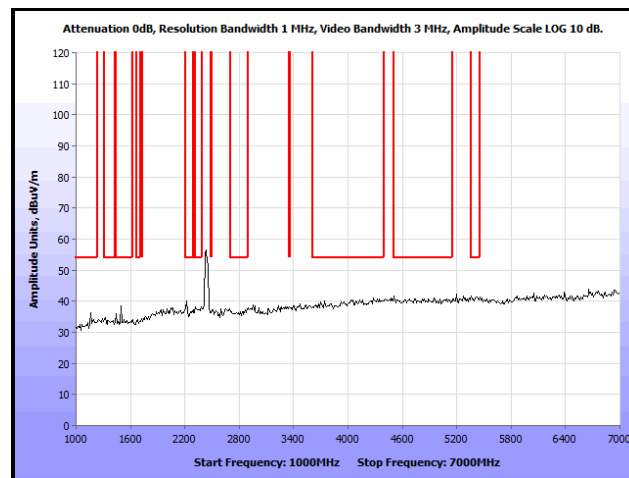
Plot 102. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



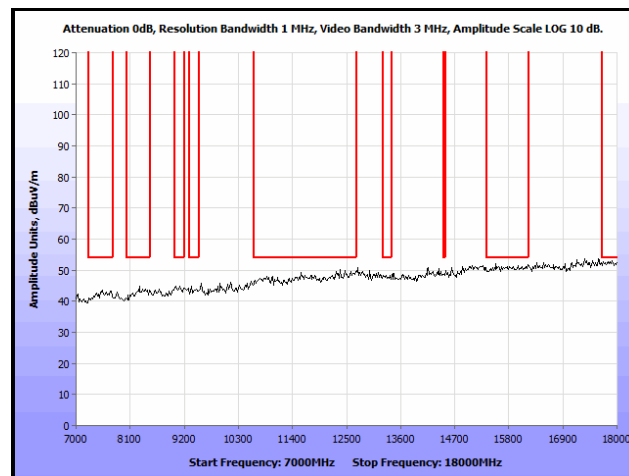
Plot 103. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



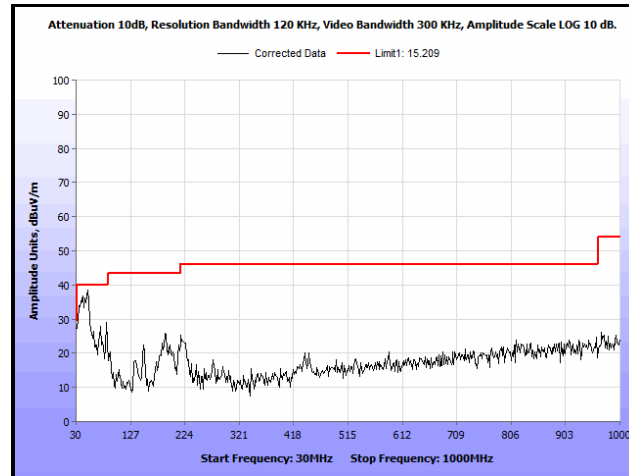
Plot 104. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



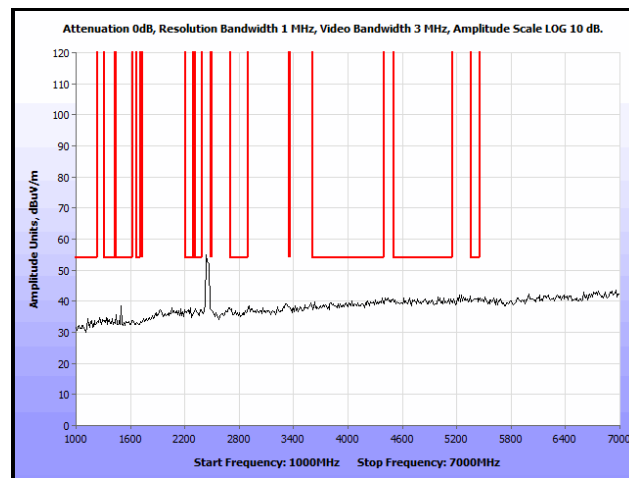
Plot 105. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



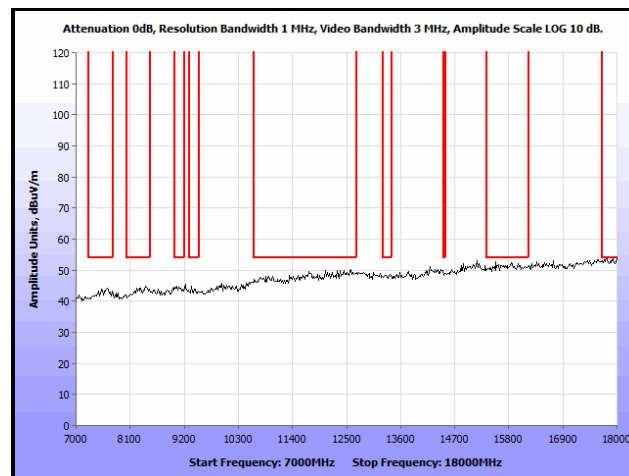
Plot 106. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



Plot 107. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O

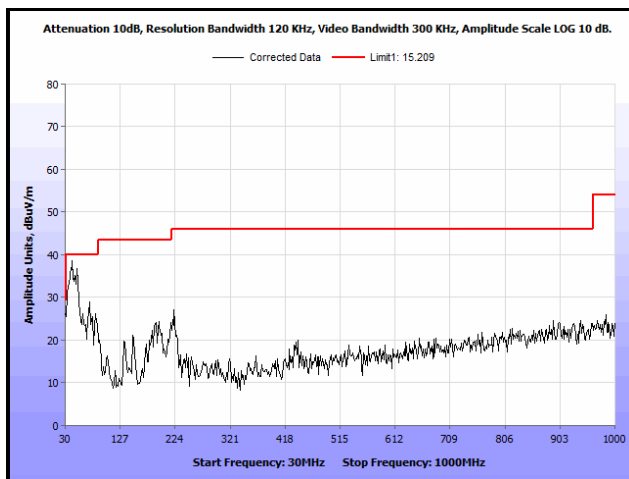


Plot 108. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O

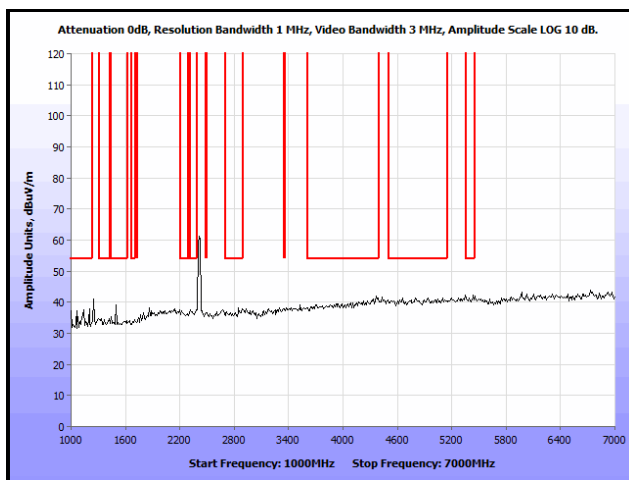


Plot 109. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O

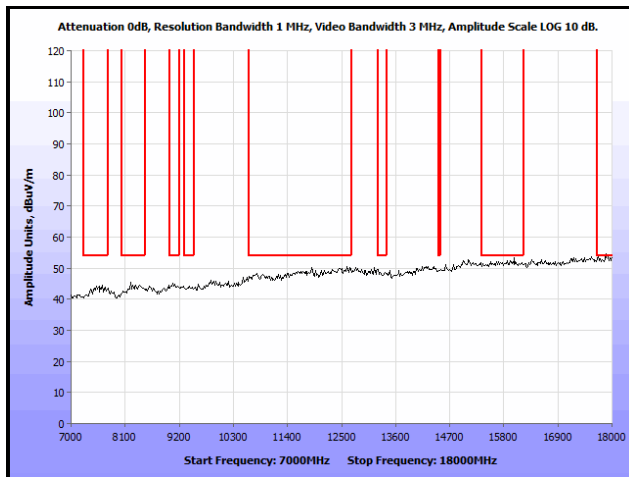
Radiated Spurious Emissions Test Results, 802.11n 20 MHz, ANT-O6ABGN-0606-O



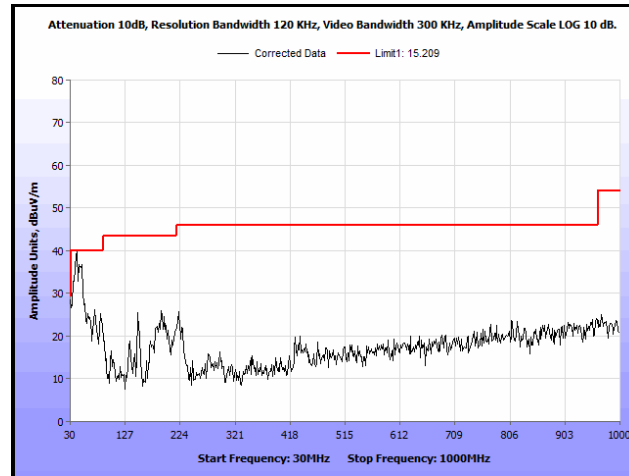
Plot 110. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



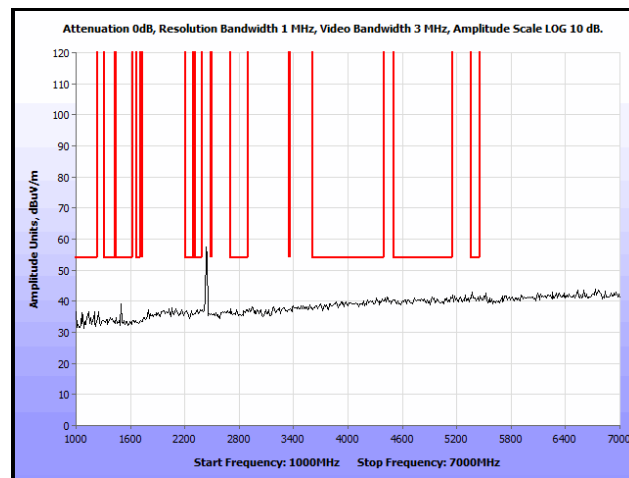
Plot 111. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



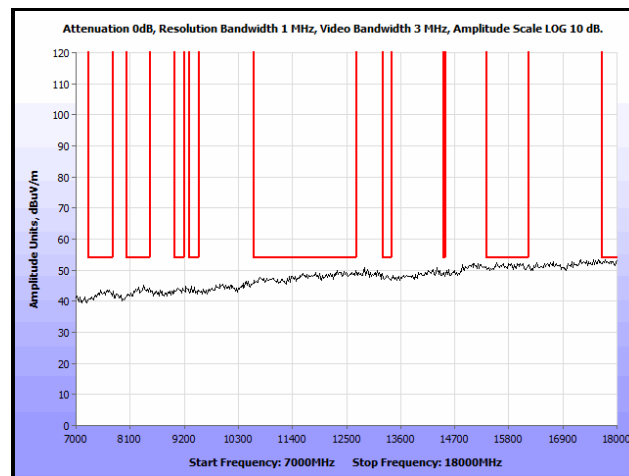
Plot 112. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



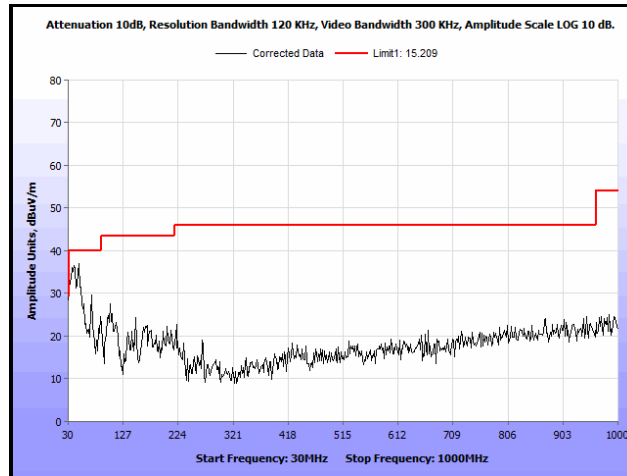
Plot 113. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



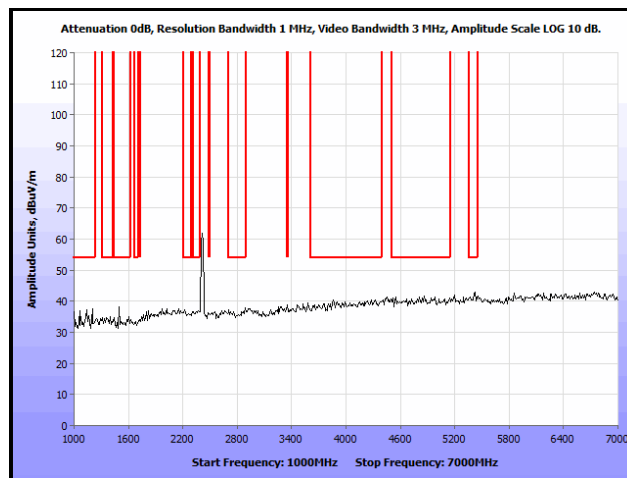
Plot 114. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



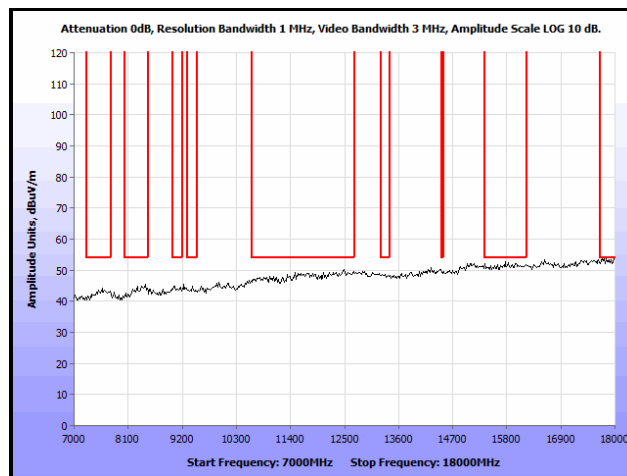
Plot 115. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



Plot 116. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O

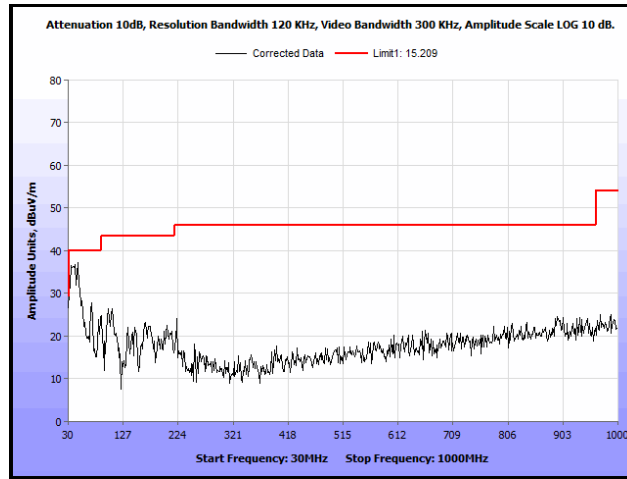


Plot 117. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O

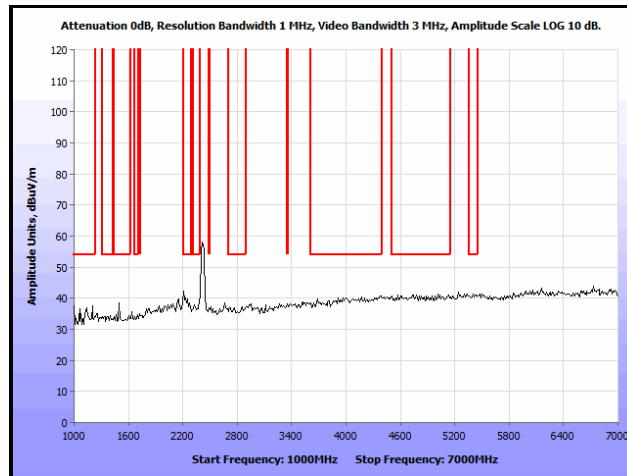


Plot 118. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O

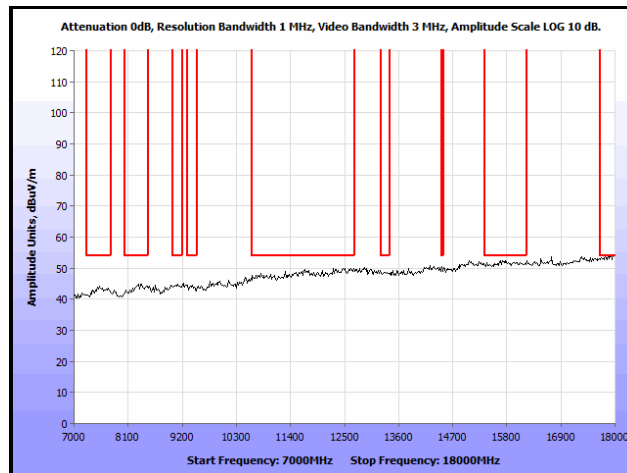
Radiated Spurious Emissions Test Results, 802.11n 40 MHz, ANT-O6ABGN-0606-O



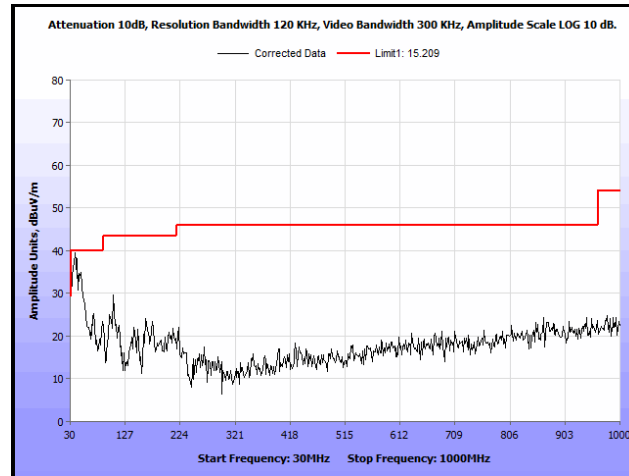
Plot 119. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



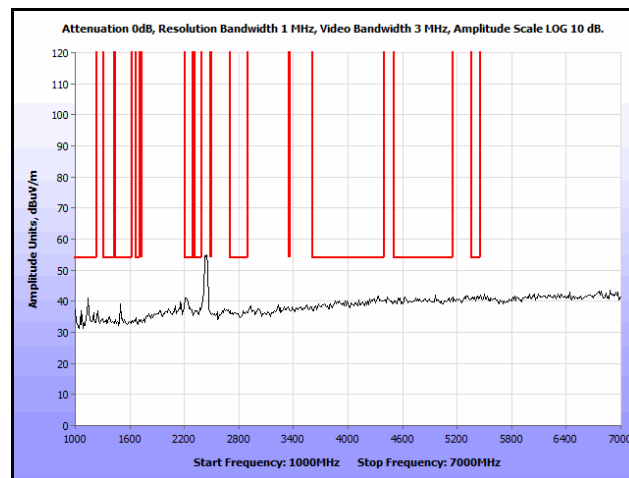
Plot 120. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



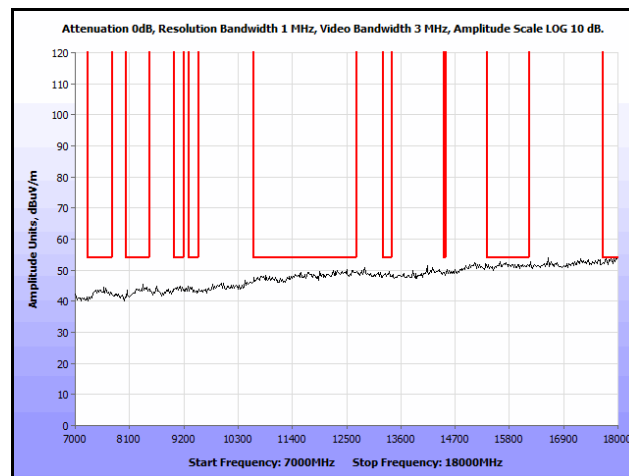
Plot 121. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



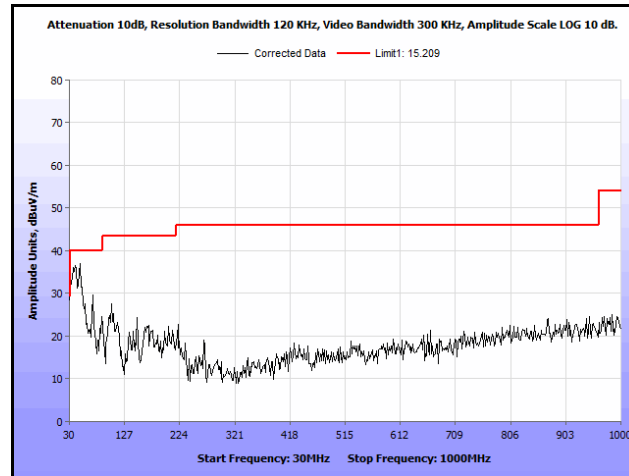
Plot 122. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O



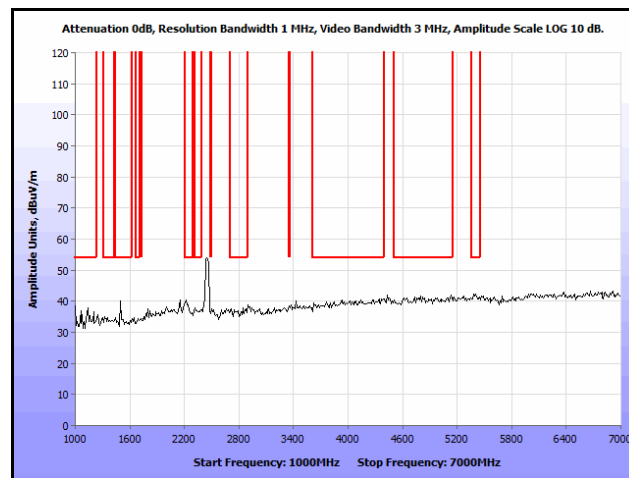
Plot 123. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O



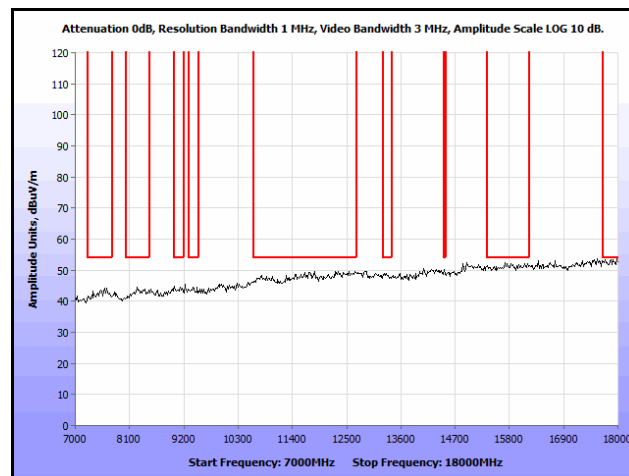
Plot 124. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O



Plot 125. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-O6ABGN-0606-O

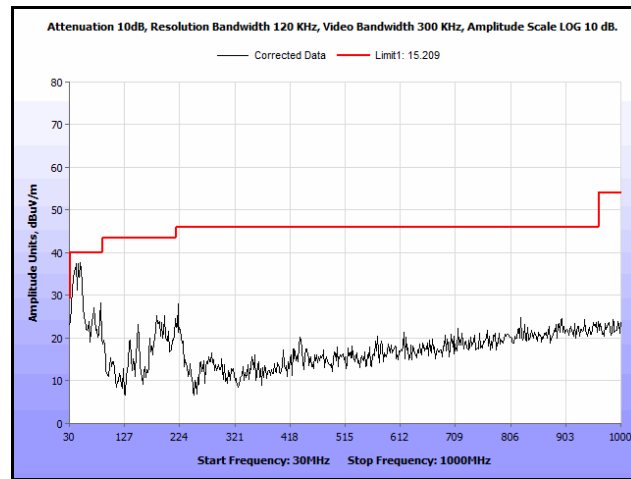


Plot 126. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-O6ABGN-0606-O

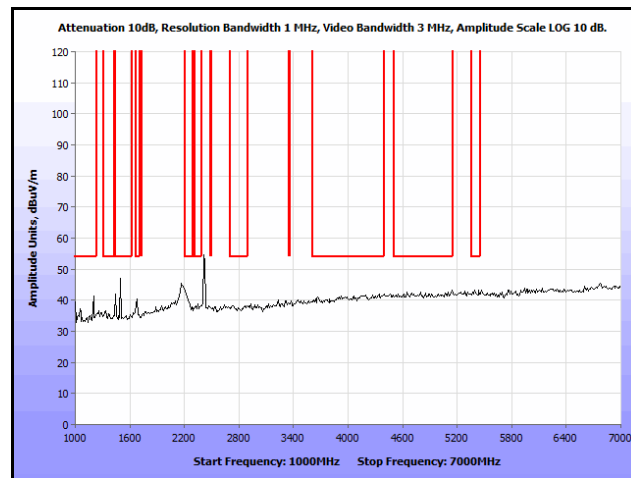


Plot 127. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-O6ABGN-0606-O

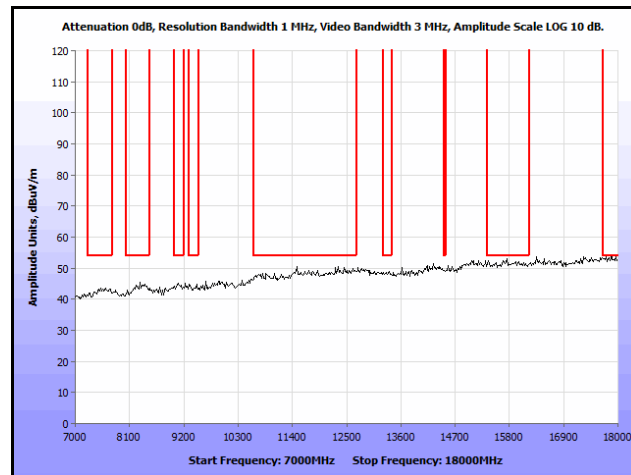
Radiated Spurious Emissions Test Results, 802.11b, ANT-BG080-NM



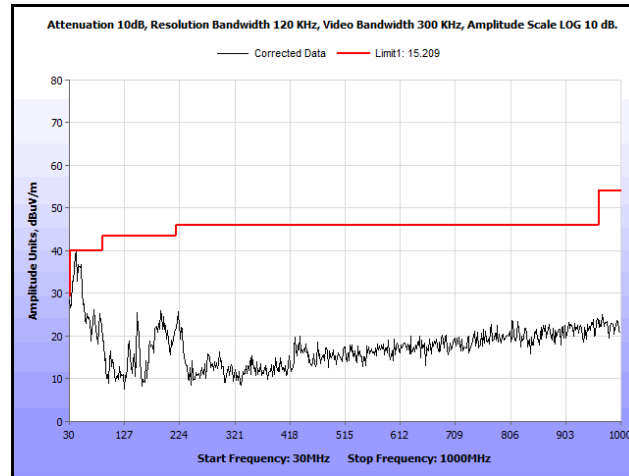
Plot 128. Radiated Spurious Emissions, Low Channel, 802.11b, 30 MHz – 1 GHz, ANT-BG080-NM



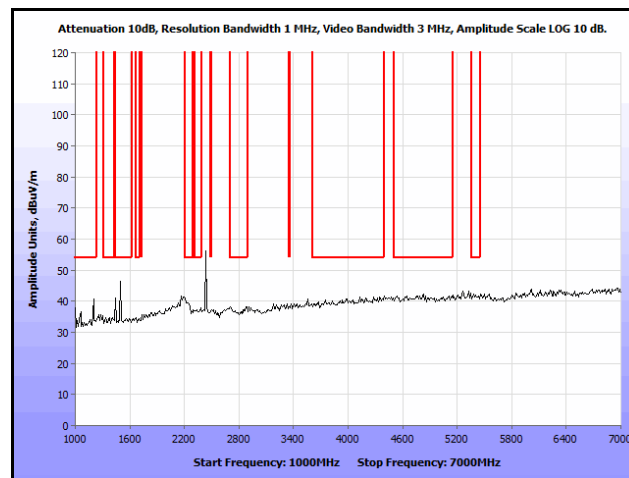
Plot 129. Radiated Spurious Emissions, Low Channel, 802.11b, 1 GHz – 7 GHz, ANT-BG080-NM



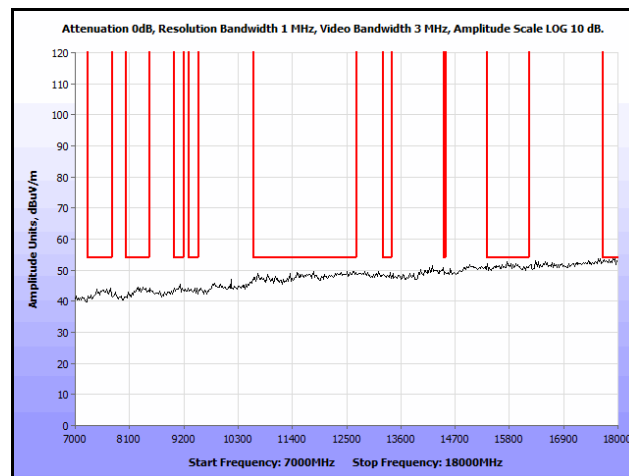
Plot 130. Radiated Spurious Emissions, Low Channel, 802.11b, 7 GHz – 18 GHz, ANT-BG080-NM



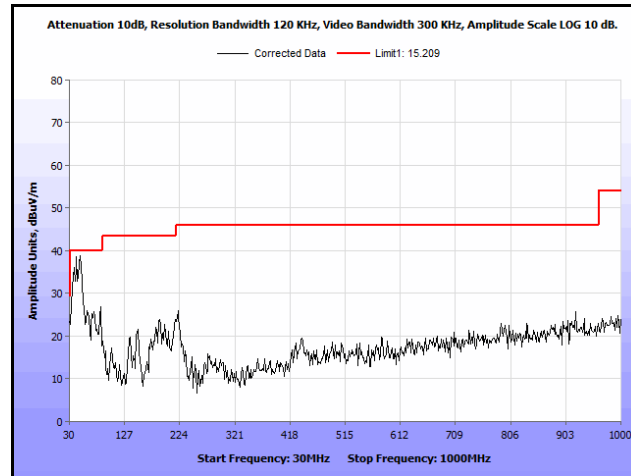
Plot 131. Radiated Spurious Emissions, Mid Channel, 802.11b, 30 MHz – 1 GHz, ANT-BG080-NM



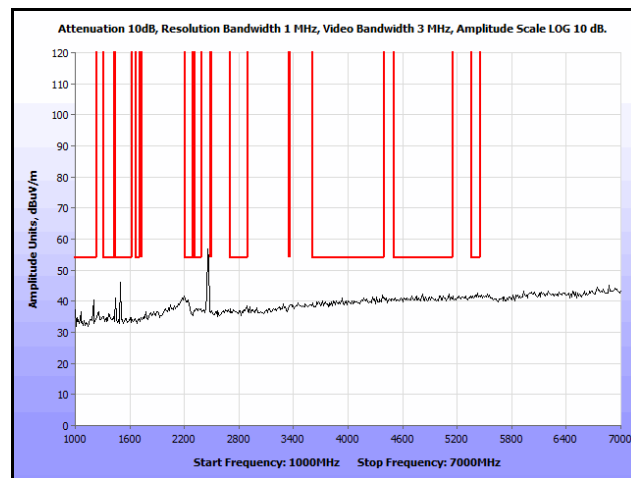
Plot 132. Radiated Spurious Emissions, Mid Channel, 802.11b, 1 GHz – 7 GHz, ANT-BG080-NM



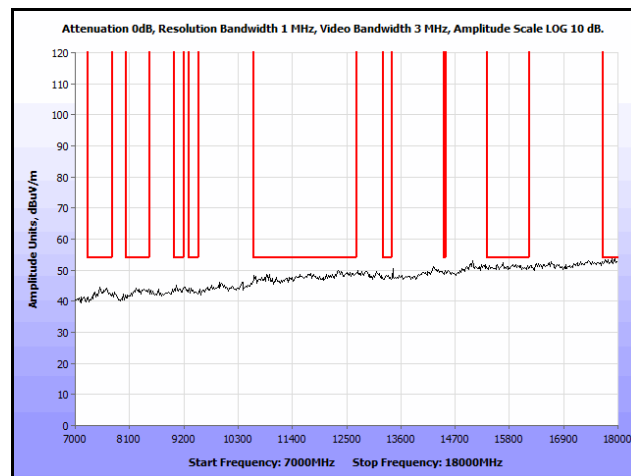
Plot 133. Radiated Spurious Emissions, Mid Channel, 802.11b, 7 GHz – 18 GHz, ANT-BG080-NM



Plot 134. Radiated Spurious Emissions, High Channel, 802.11b, 30 MHz – 1 GHz, ANT-BG080-NM

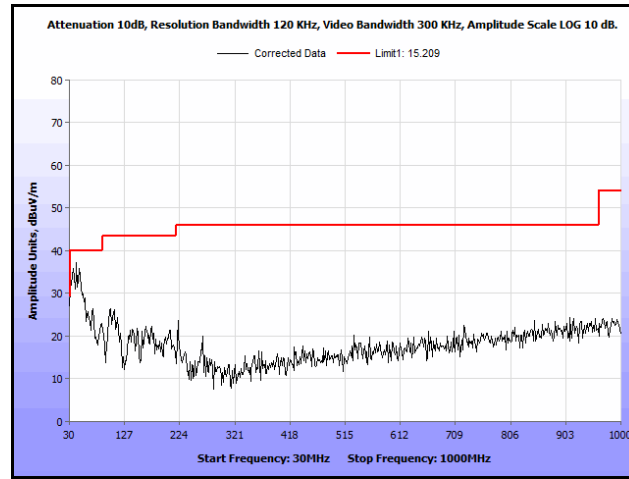


Plot 135. Radiated Spurious Emissions, High Channel, 802.11b, 1 GHz – 7 GHz, ANT-BG080-NM

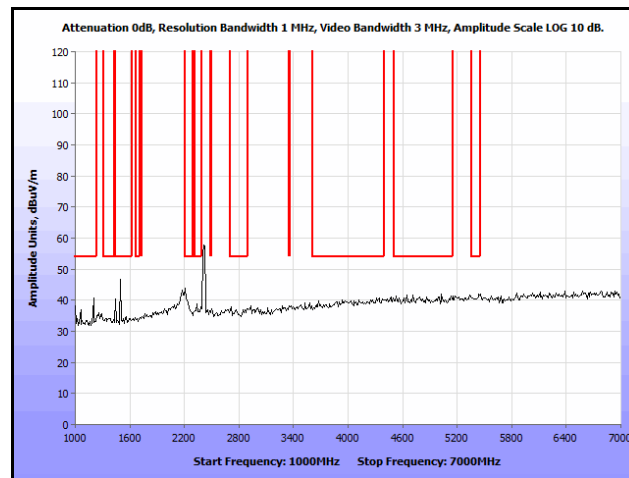


Plot 136. Radiated Spurious Emissions, High Channel, 802.11b, 7 GHz – 18 GHz, ANT-BG080-NM

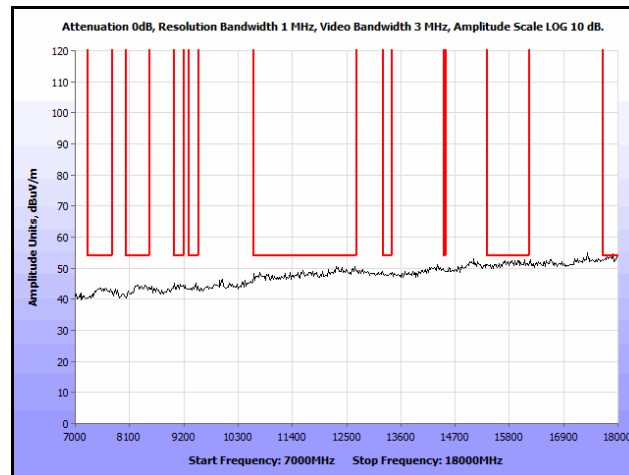
Radiated Spurious Emissions Test Results, 802.11g 20 MHz, ANT-BG080-NM



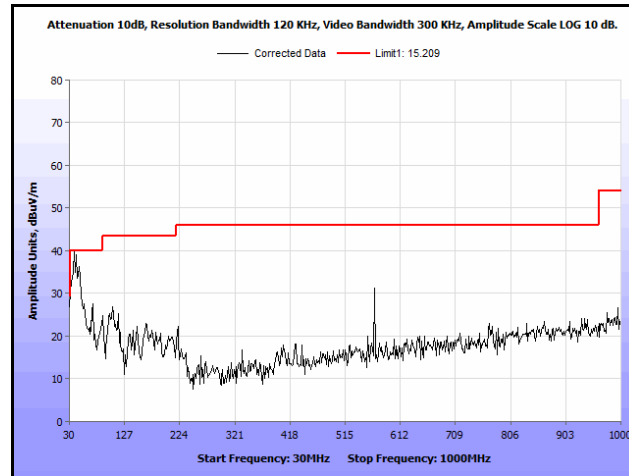
Plot 137. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



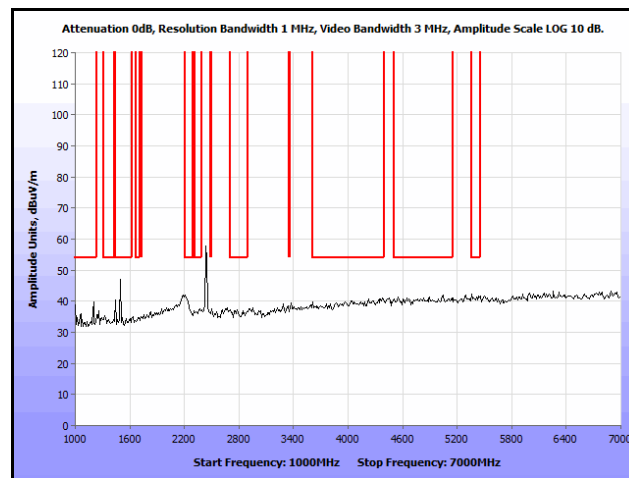
Plot 138. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



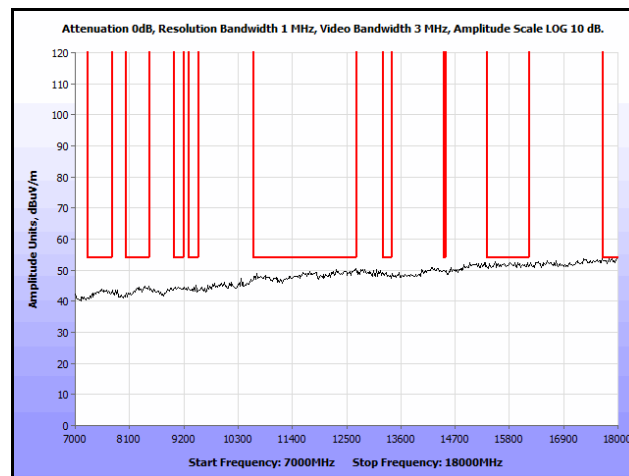
Plot 139. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



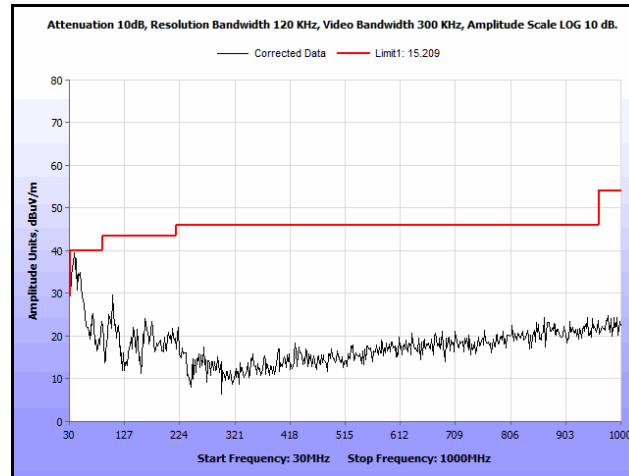
Plot 140. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



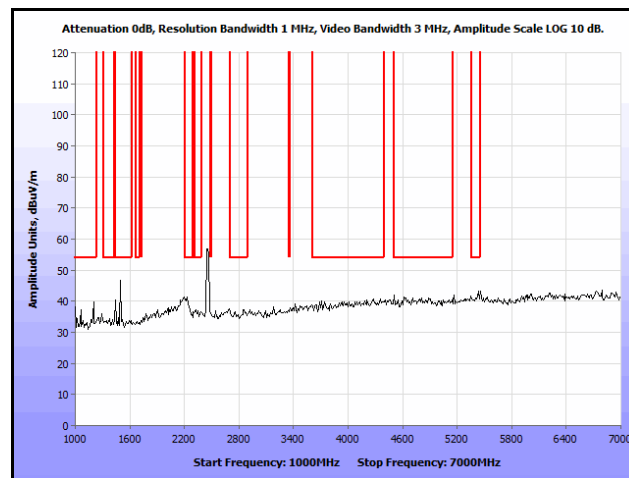
Plot 141. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



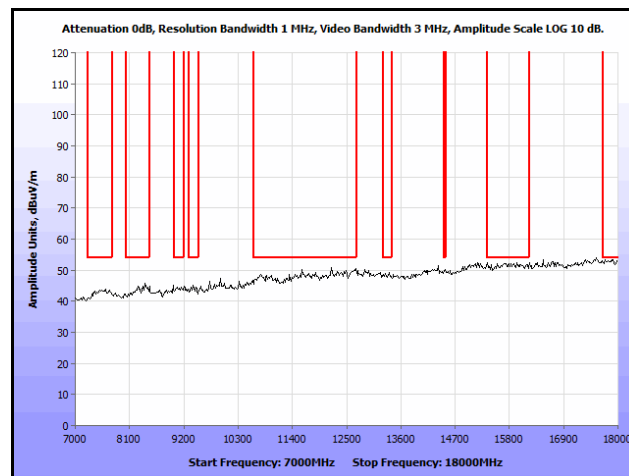
Plot 142. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



Plot 143. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 30 MHz – 1 GHz, ANT-BG080-NM

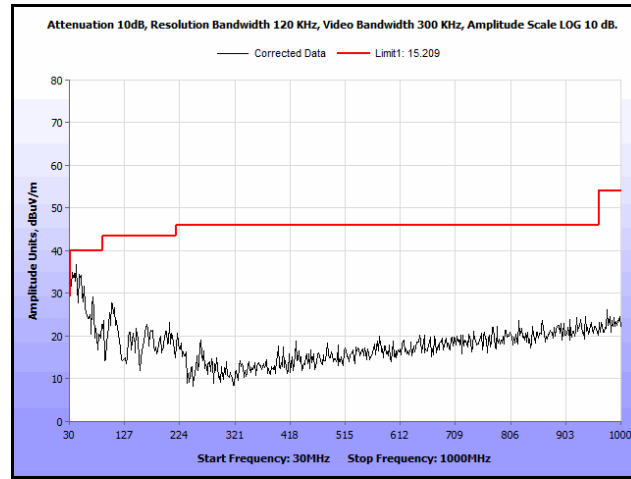


Plot 144. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 1 GHz – 7 GHz, ANT-BG080-NM

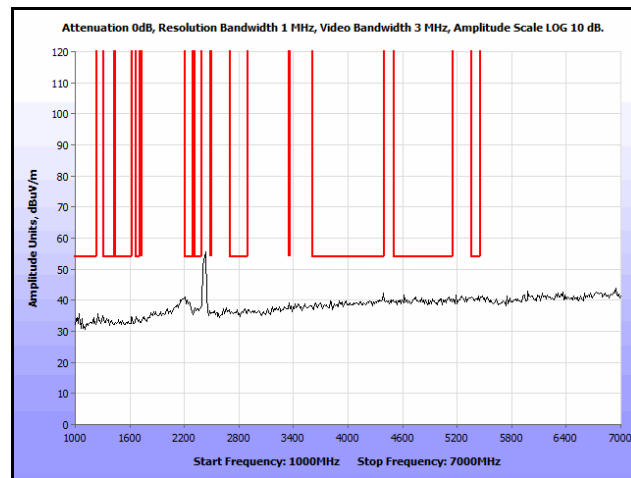


Plot 145. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, 7 GHz – 18 GHz, ANT-BG080-NM

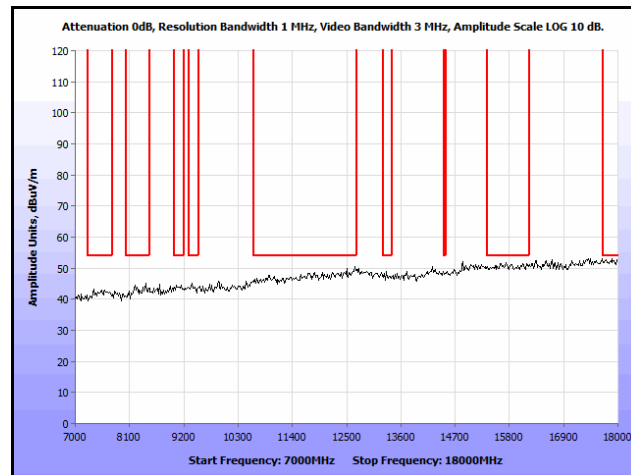
Radiated Spurious Emissions Test Results, 802.11g 40 MHz, ANT-BG080-NM



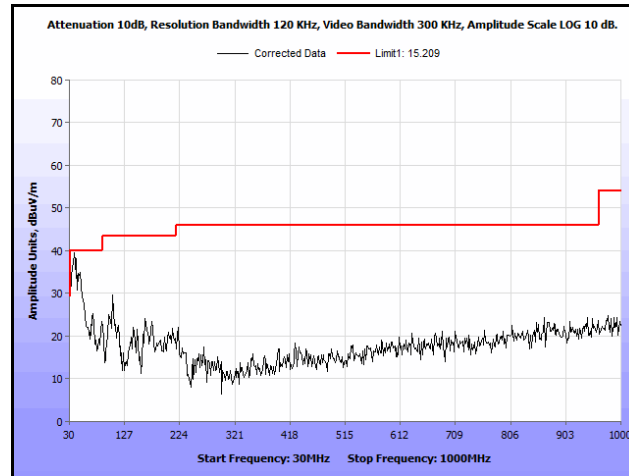
Plot 146. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



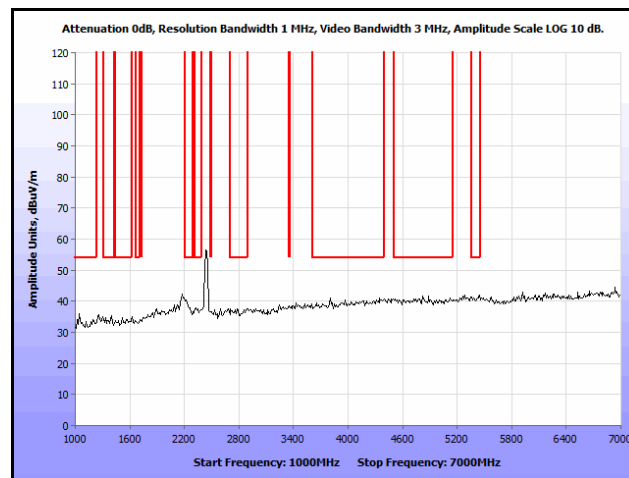
Plot 147. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



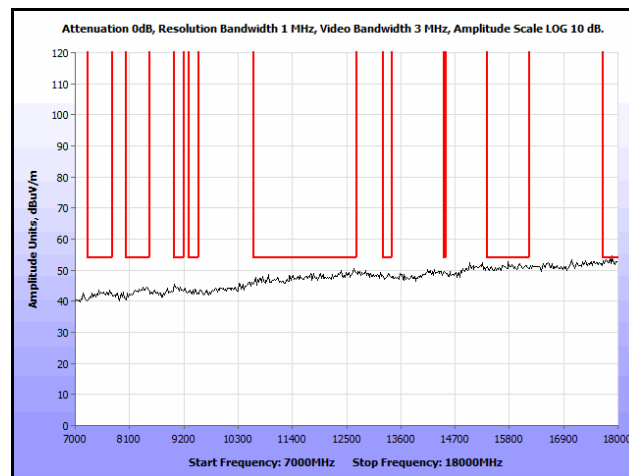
Plot 148. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



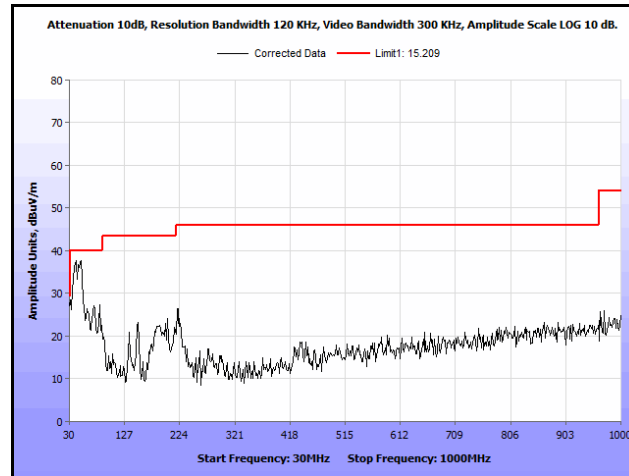
Plot 149. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



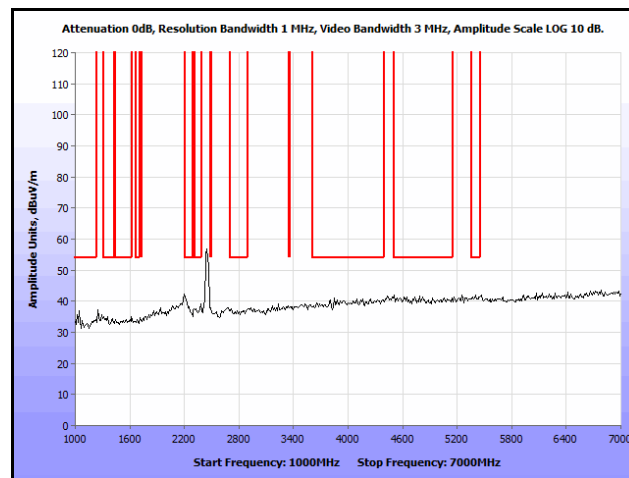
Plot 150. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



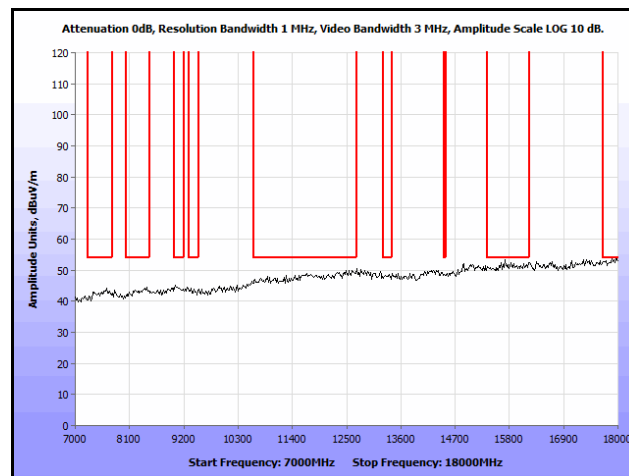
Plot 151. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



Plot 152. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 30 MHz – 1 GHz, ANT-BG080-NM

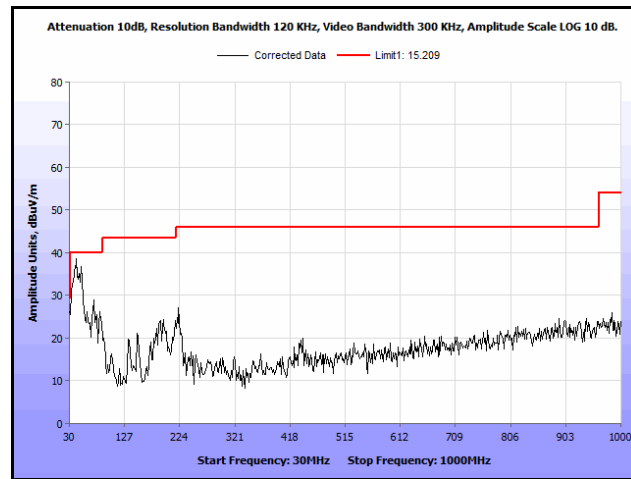


Plot 153. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 1 GHz – 7 GHz, ANT-BG080-NM

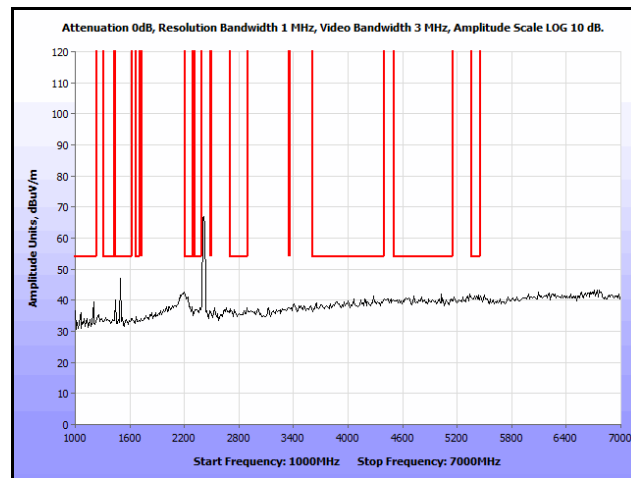


Plot 154. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, 7 GHz – 18 GHz, ANT-BG080-NM

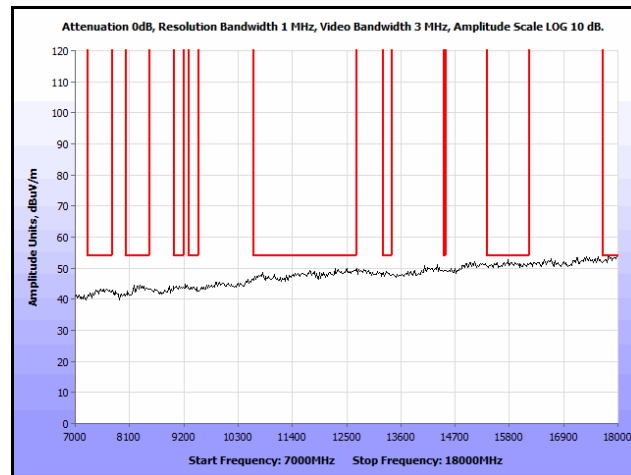
Radiated Spurious Emissions Test Results, 802.11n 20 MHz, ANT-BG080-NM



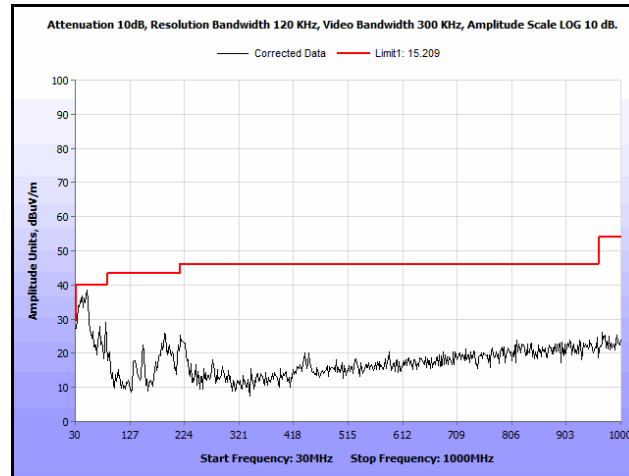
Plot 155. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



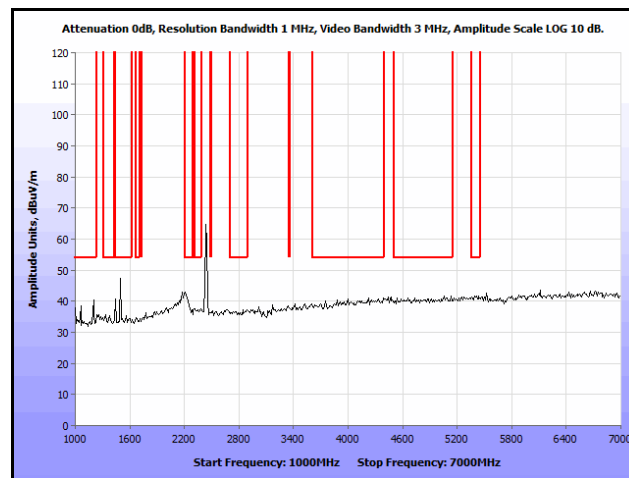
Plot 156. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



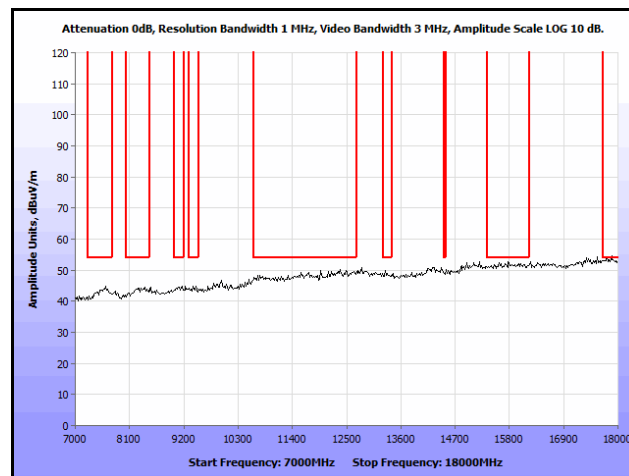
Plot 157. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



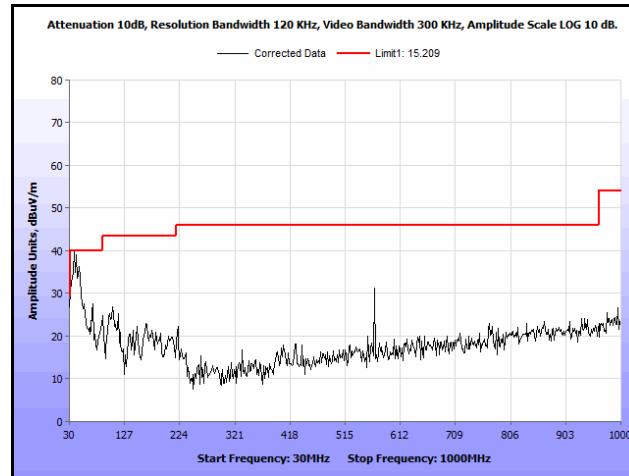
Plot 158. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



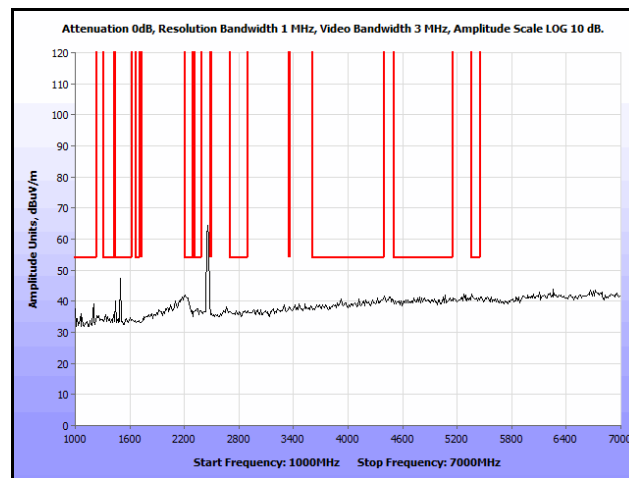
Plot 159. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



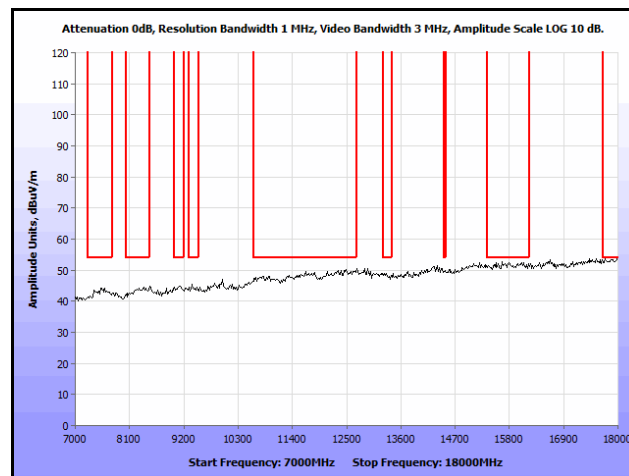
Plot 160. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



Plot 161. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 30 MHz – 1 GHz, ANT-BG080-NM

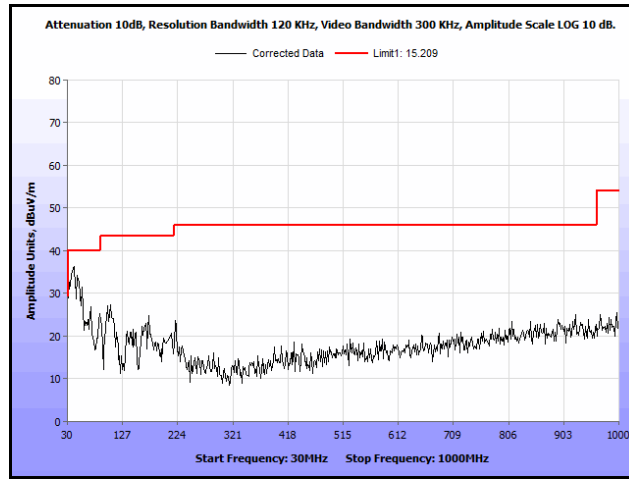


Plot 162. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 1 GHz – 7 GHz, ANT-BG080-NM

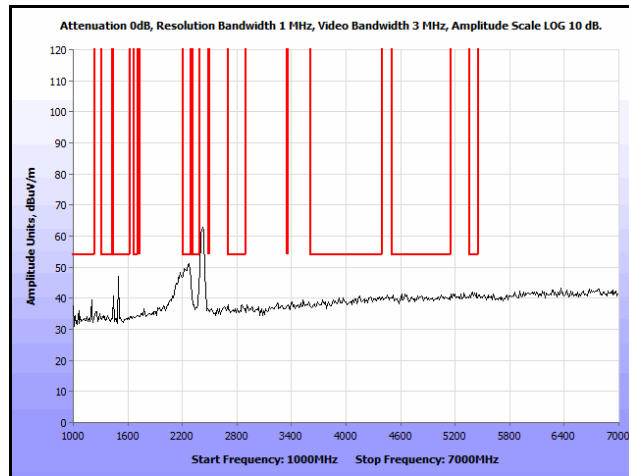


Plot 163. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, 7 GHz – 18 GHz, ANT-BG080-NM

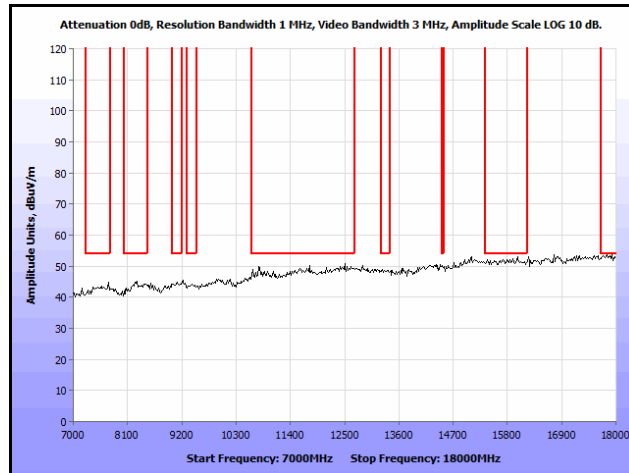
Radiated Spurious Emissions Test Results, 802.11n 40 MHz, ANT-BG080-NM



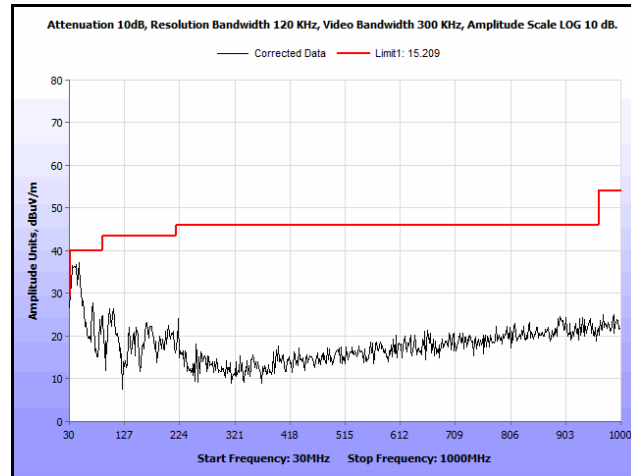
Plot 164. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



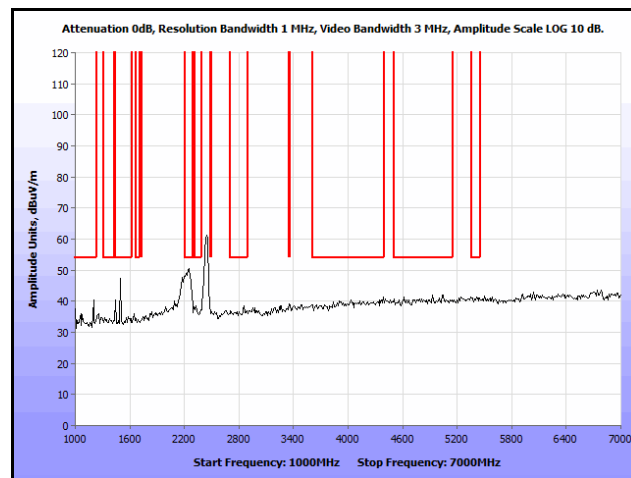
Plot 165. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



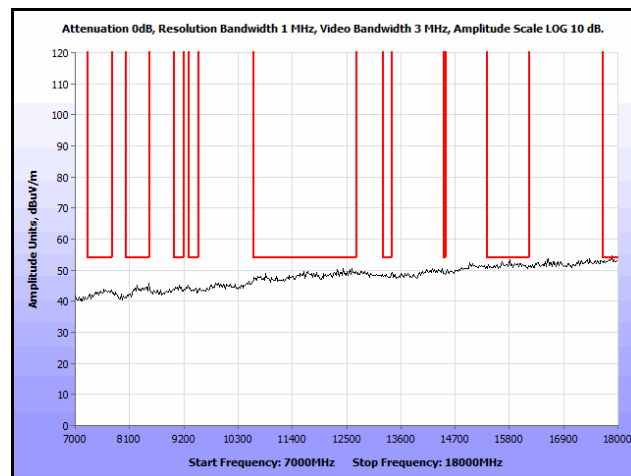
Plot 166. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



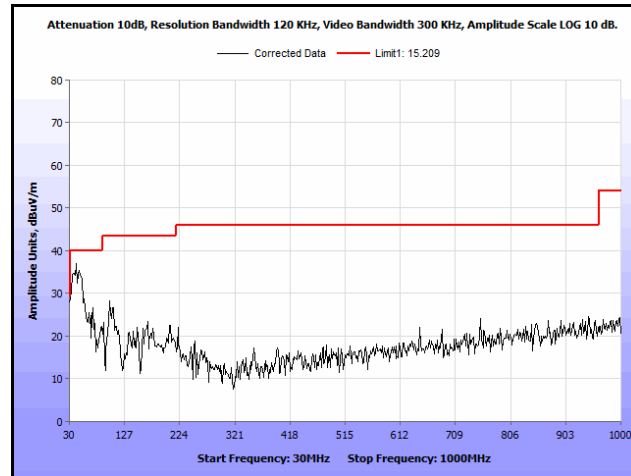
Plot 167. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



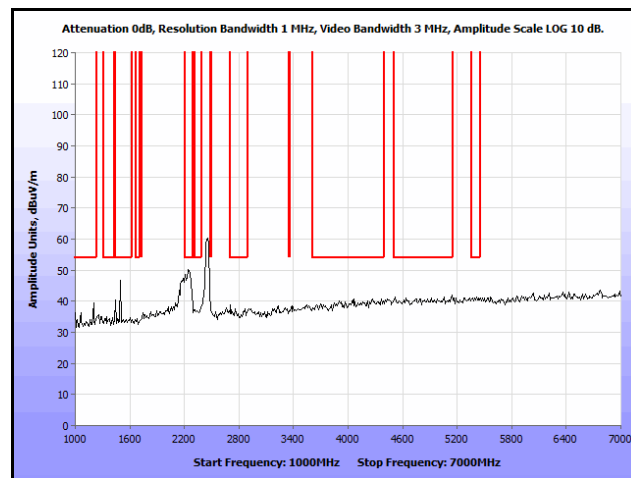
Plot 168. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-BG080-NM



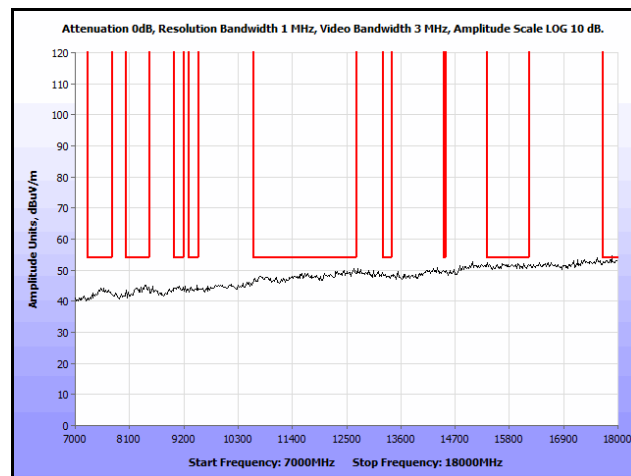
Plot 169. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-BG080-NM



Plot 170. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 30 MHz – 1 GHz, ANT-BG080-NM



Plot 171. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 1 GHz – 7 GHz, ANT-BG080-NM

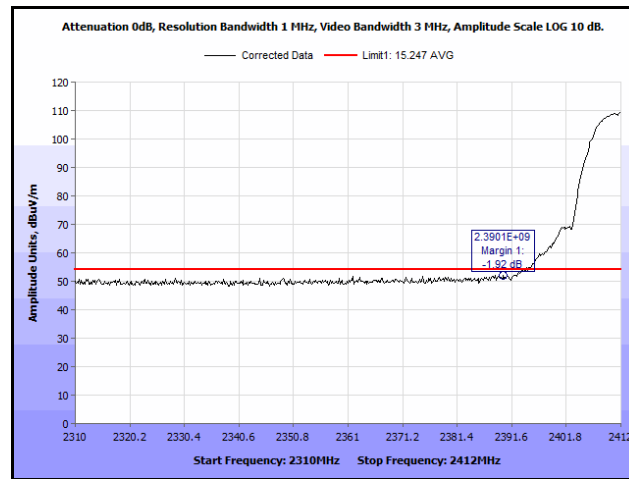


Plot 172. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, 7 GHz – 18 GHz, ANT-BG080-NM

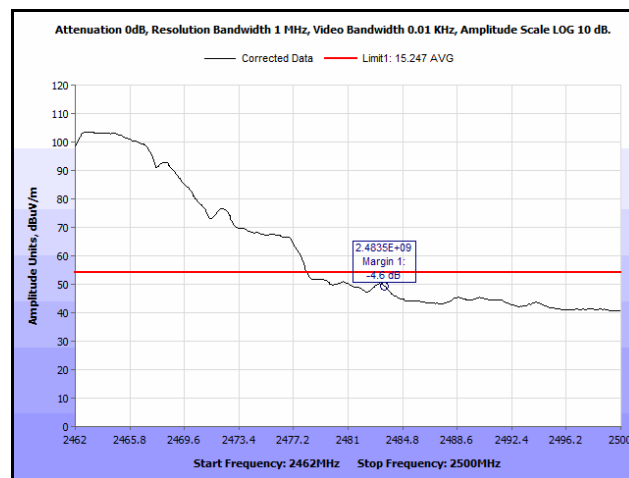
Radiated Band Edge Measurements

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 both antenna correction factor and distance and compared to a 3 m limit line.

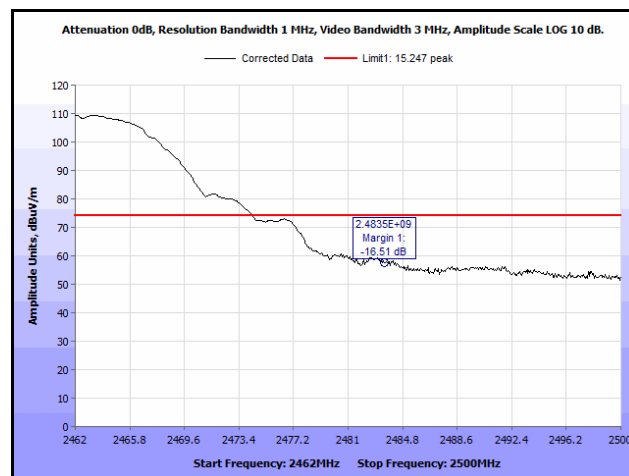
Radiated Band Edge Measurements, 802.11b, ANT-O6ABGN-1211-PA



Plot 173. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11b, ANT-O6ABGN-1211-PA, Average

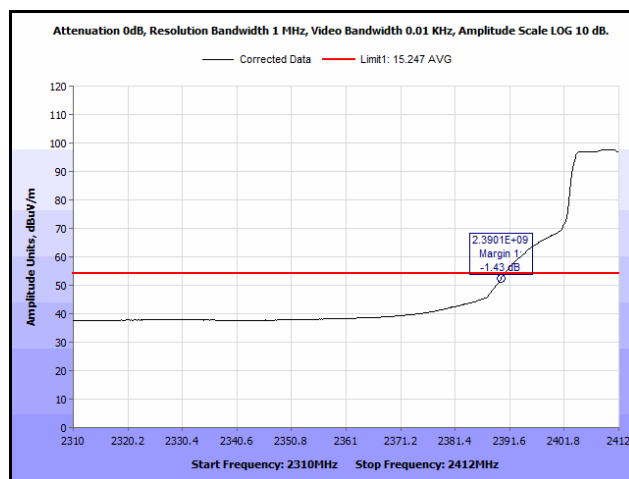


Plot 174. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11b, ANT-O6ABGN-1211-PA, Average

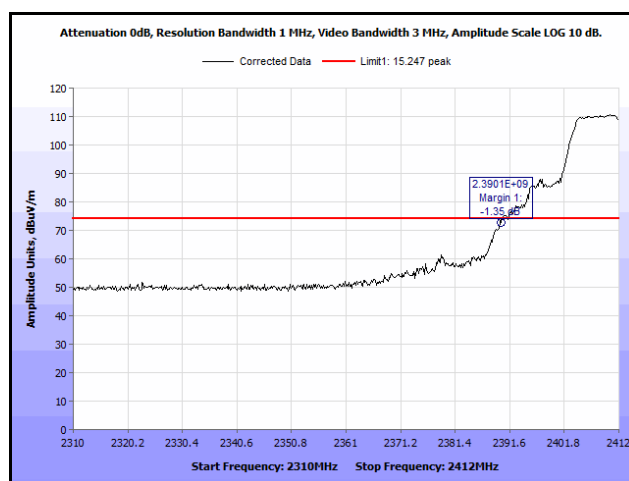


Plot 175. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11b, ANT-O6ABGN-1211-PA, Peak

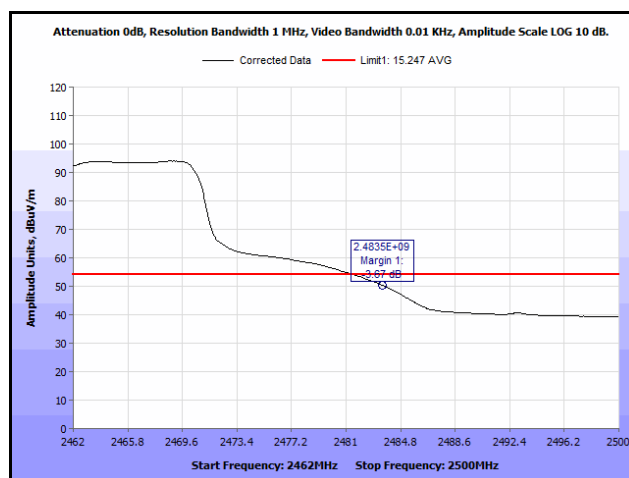
Radiated Band Edge Measurements, 802.11g 20 MHz, ANT-O6ABGN-1211-PA



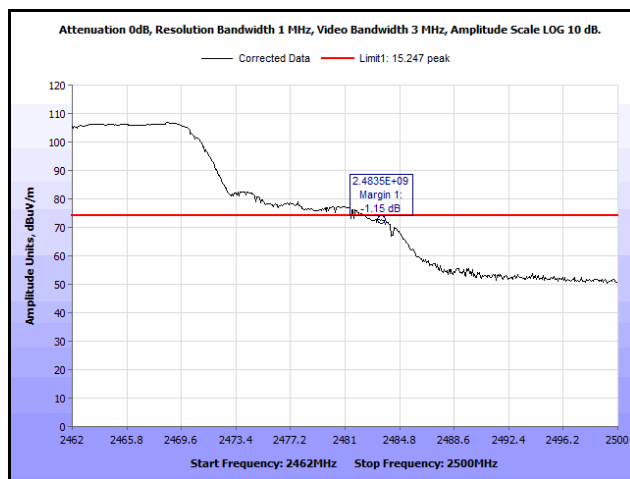
Plot 176. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11g 20 MHz, ANT-O6ABGN-1211-PA, Average



Plot 177. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11g 20 MHz, ANT-O6ABGN-1211-PA, Peak

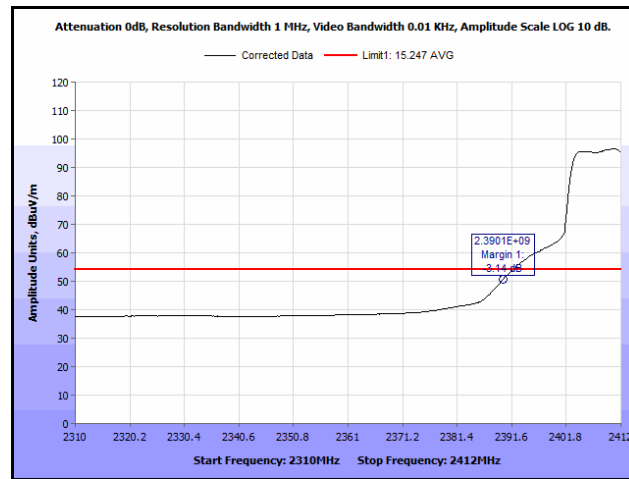


Plot 178. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11g 20 MHz, ANT-O6ABGN-1211-PA, Average

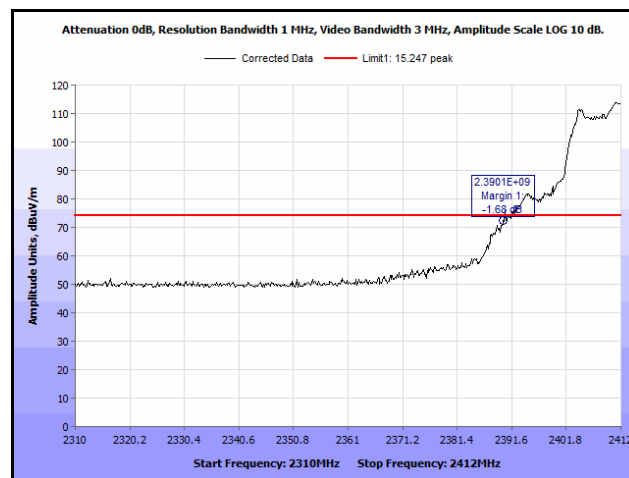


Plot 179. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11g 20 MHz, ANT-O6ABGN-1211-PA, Peak

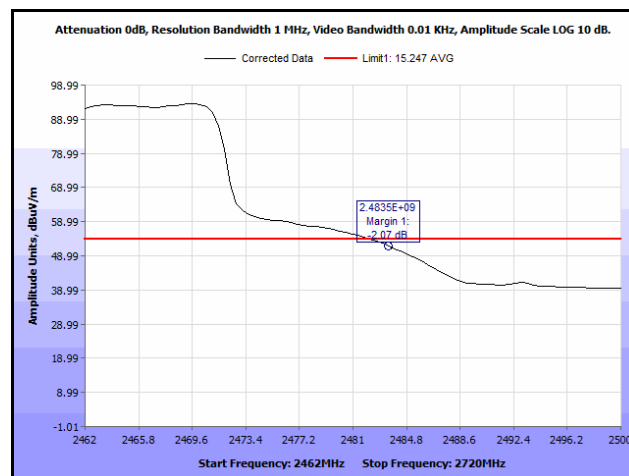
Radiated Band Edge Measurements, 802.11n 20 MHz, ANT-O6ABGN-1211-PA



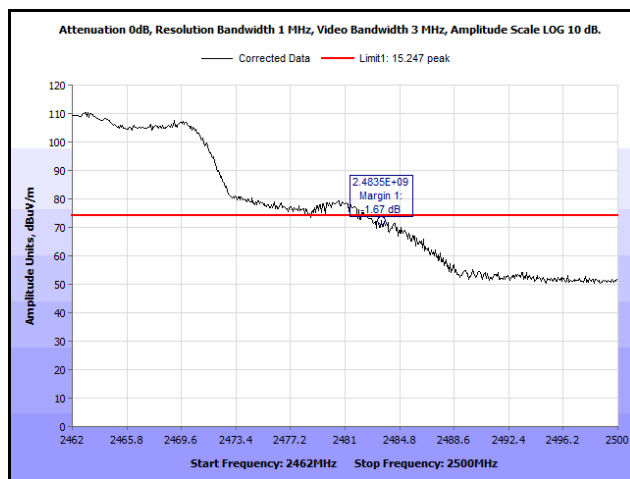
Plot 180. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11n 20 MHz, ANT-O6ABGN-1211-PA, Average



Plot 181. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11n 20 MHz, ANT-O6ABGN-1211-PA, Peak

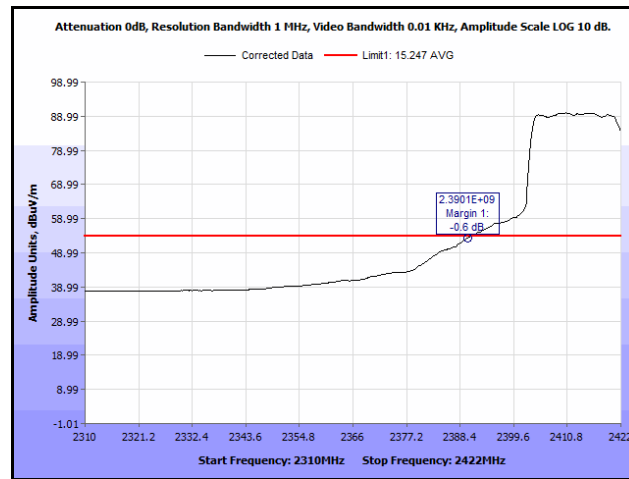


Plot 182. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11n 20 MHz, ANT-O6ABGN-1211-PA, Average

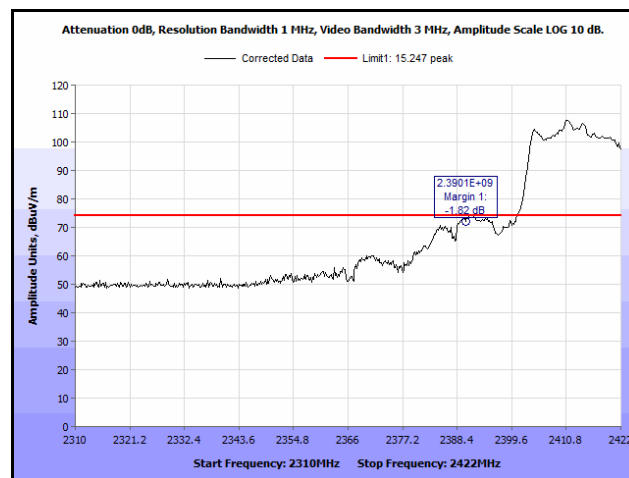


Plot 183. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11n 20 MHz, ANT-O6ABGN-1211-PA, Peak

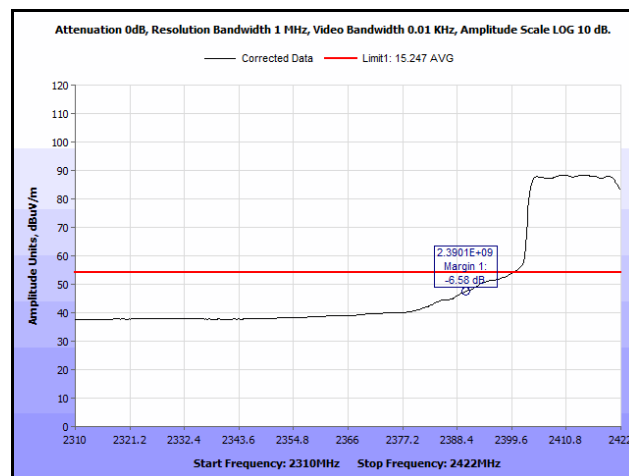
Radiated Band Edge Measurements, 802.11n 40 MHz, ANT-O6ABGN-1211-PA



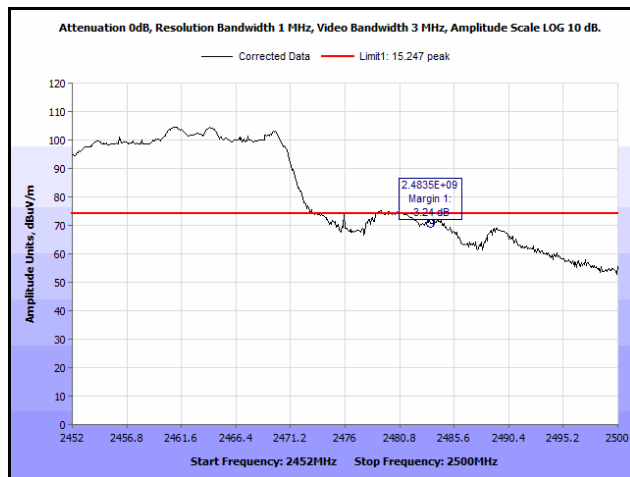
Plot 184. Radiated Restricted Band Edge, 2422 MHz @ 2390 MHz, 802.11n 40 MHz, ANT-O6ABGN-1211-PA, Average



Plot 185. Radiated Restricted Band Edge, 2422 MHz @ 2390 MHz, 802.11n 40 MHz, ANT-O6ABGN-1211-PA, Peak

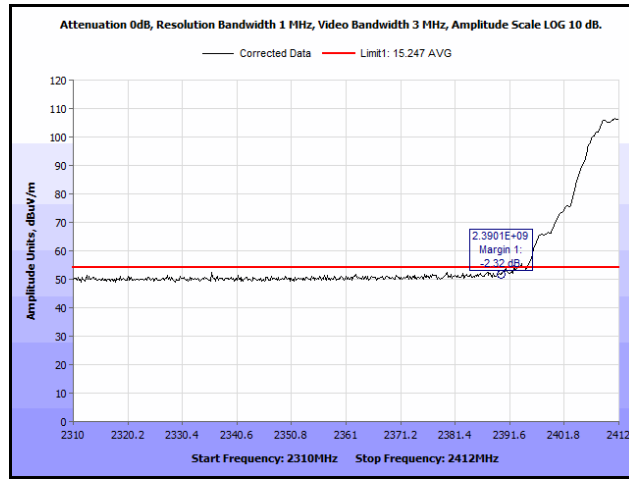


Plot 186. Radiated Restricted Band Edge, 2452 MHz @ 2483.5 MHz, 802.11n 40 MHz, ANT-O6ABGN-1211-PA, Average

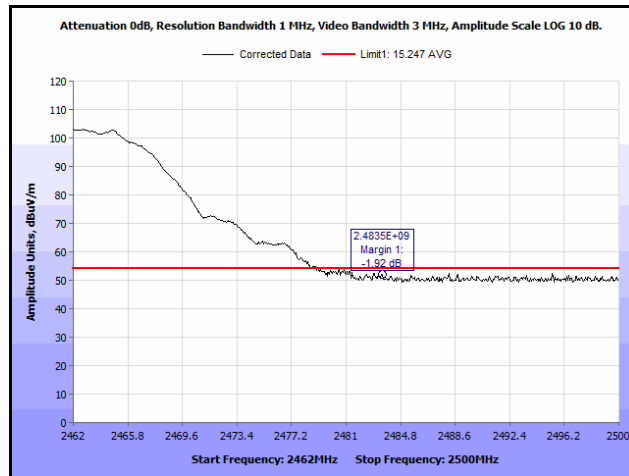


Plot 187. Radiated Restricted Band Edge, 2452 MHz @ 2483.5 MHz, 802.11n 40 MHz, ANT-O6ABGN-1211-PA, Peak

Radiated Band Edge Measurements, 802.11b, ANT-O6ABGN-0606-O

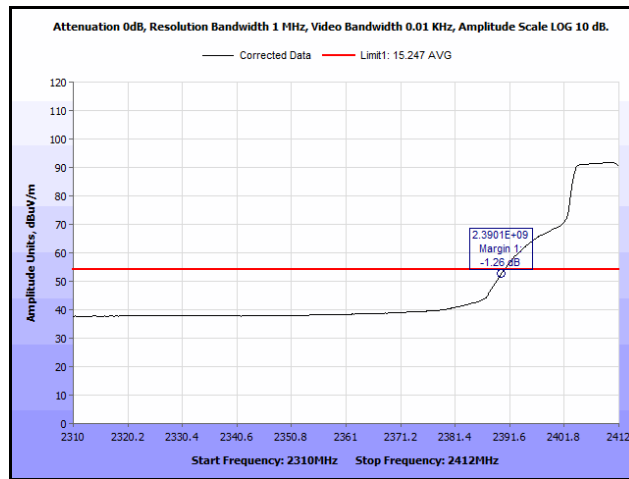


Plot 188. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11b, ANT-O6ABGN-0606-O, Average

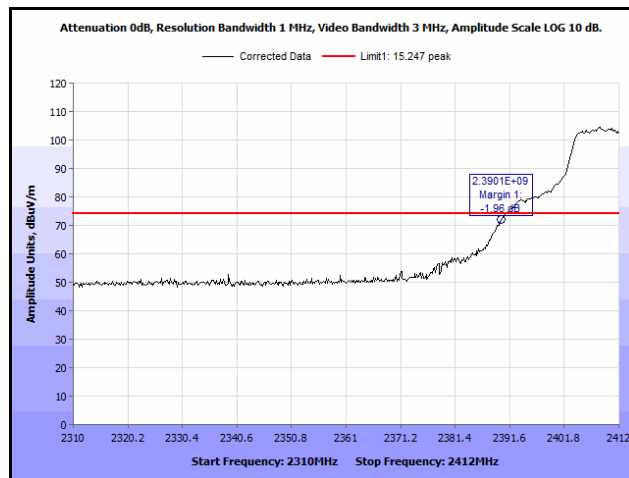


Plot 189. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11b, ANT-O6ABGN-0606-O, Average

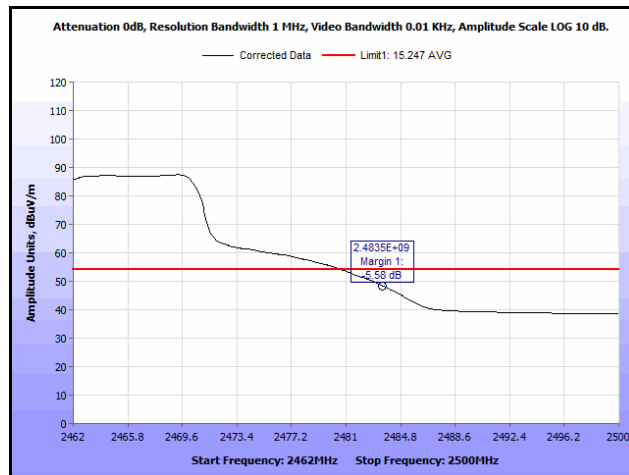
Radiated Band Edge Measurements, 802.11g 20 MHz, ANT-O6ABGN-0606-O



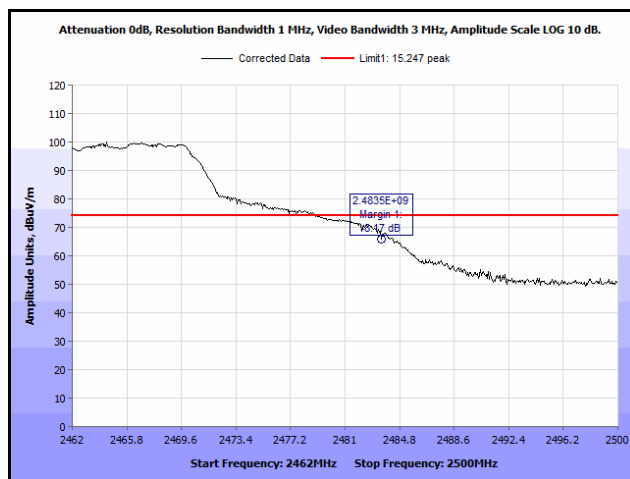
Plot 190. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11g 20 MHz, ANT-O6ABGN-0606-O, Average



Plot 191. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11g 20 MHz, ANT-O6ABGN-0606-O, Peak

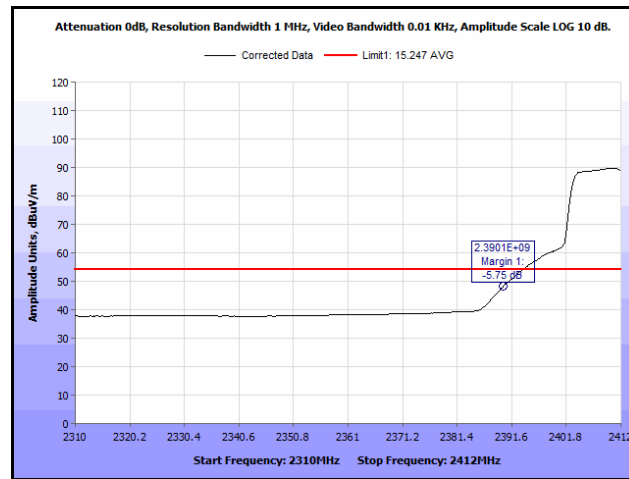


Plot 192. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11g 20 MHz, ANT-O6ABGN-0606-O, Average

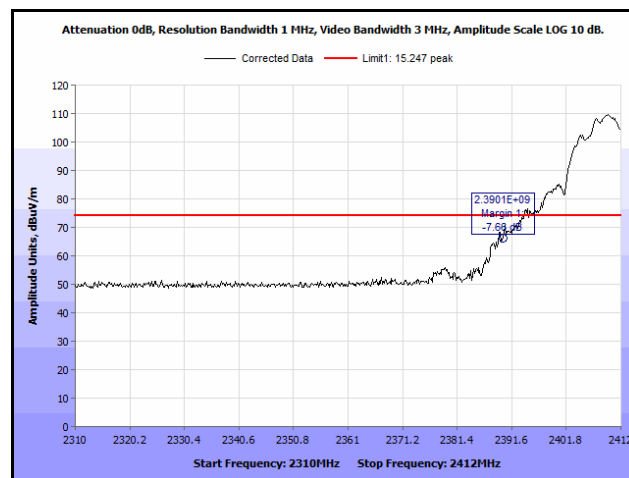


Plot 193. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11g 20 MHz, ANT-O6ABGN-0606-O, Peak

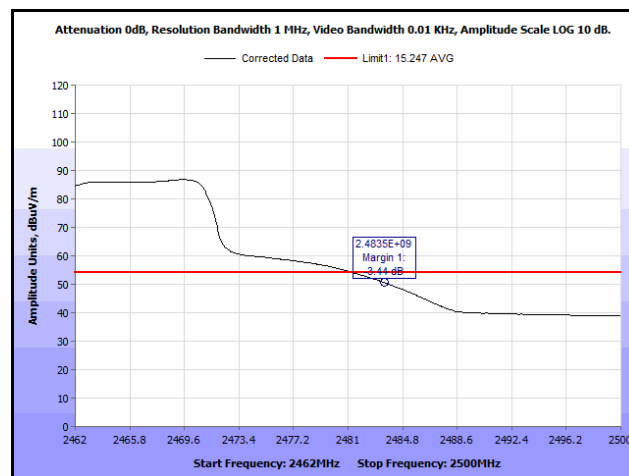
Radiated Band Edge Measurements, 802.11n 20 MHz, ANT-O6ABGN-0606-O



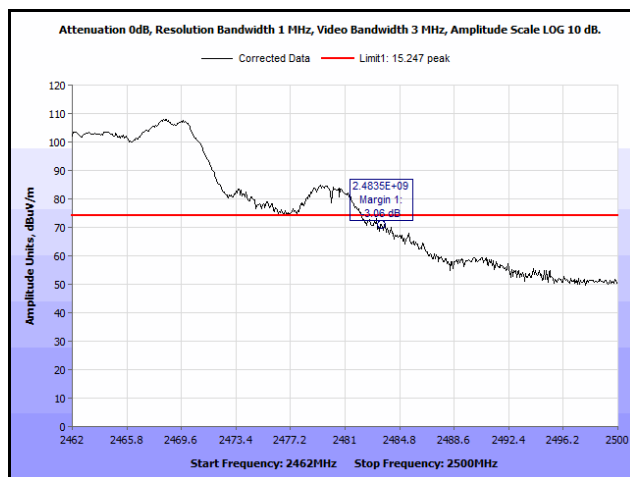
Plot 194. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11n 20 MHz, ANT-O6ABGN-0606-O, Average



Plot 195. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11n 20 MHz, ANT-O6ABGN-0606-O, Peak

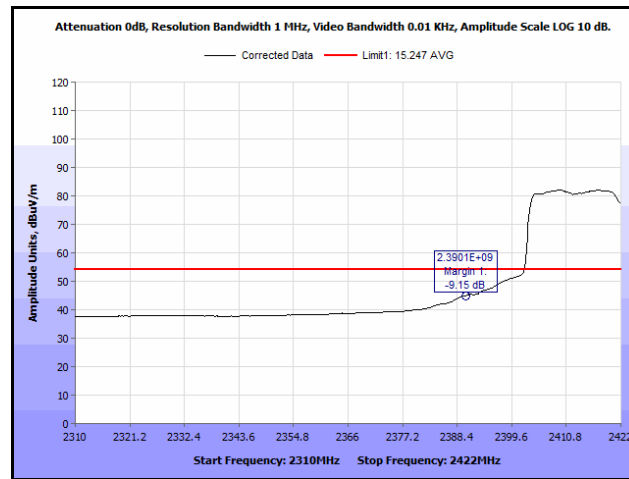


Plot 196. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11n 20 MHz, ANT-O6ABGN-0606-O, Average

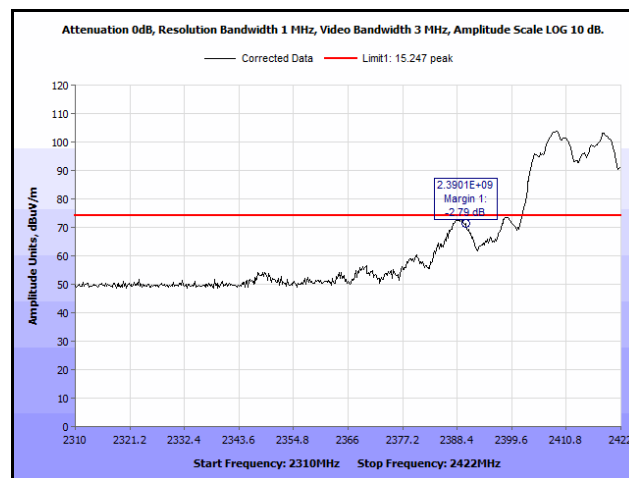


Plot 197. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11n 20 MHz, ANT-O6ABGN-0606-O, Peak

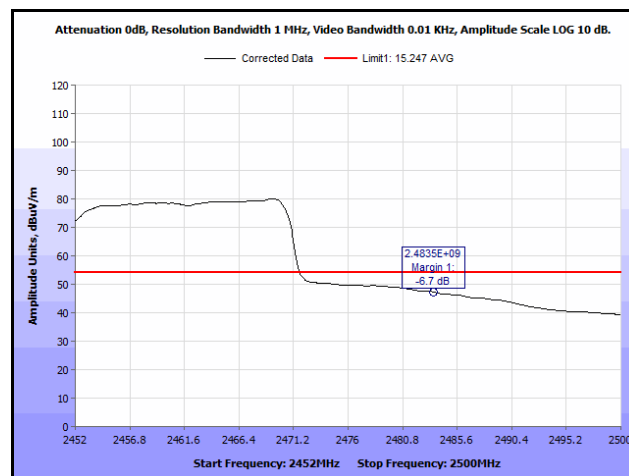
Radiated Band Edge Measurements, 802.11n 40 MHz, ANT-O6ABGN-0606-O



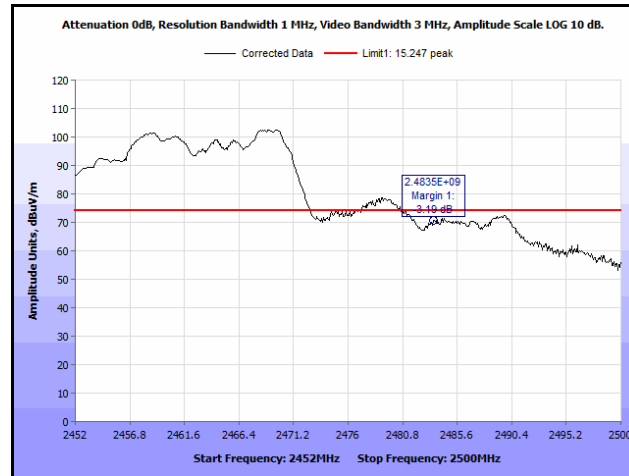
Plot 198. Radiated Restricted Band Edge, 2422 MHz @ 2390 MHz, 802.11n 40 MHz, ANT-O6ABGN-0606-O, Average



Plot 199. Radiated Restricted Band Edge, 2422 MHz @ 2390 MHz, 802.11n 40 MHz, ANT-O6ABGN-0606-O, Peak

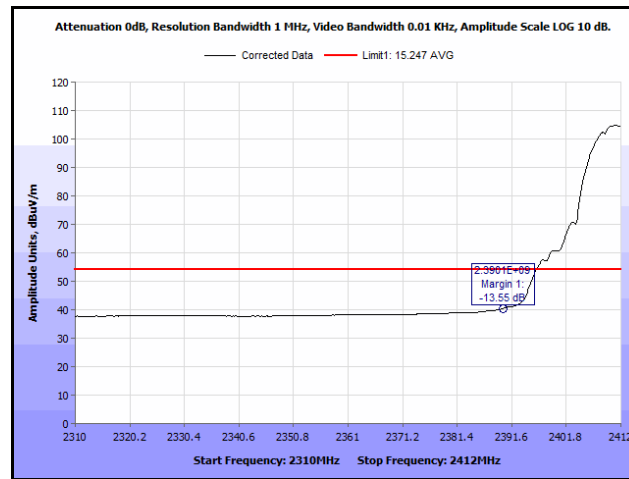


Plot 200. Radiated Restricted Band Edge, 2452 MHz @ 2483.5 MHz, 802.11n 40 MHz, ANT-O6ABGN-0606-O, Average

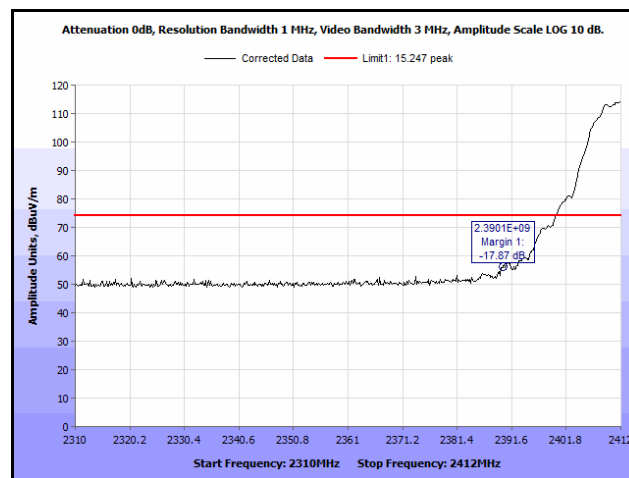


Plot 201. Radiated Restricted Band Edge, 2452 MHz @ 2483.5 MHz, 802.11n 40 MHz, ANT-O6ABGN-0606-O, Peak

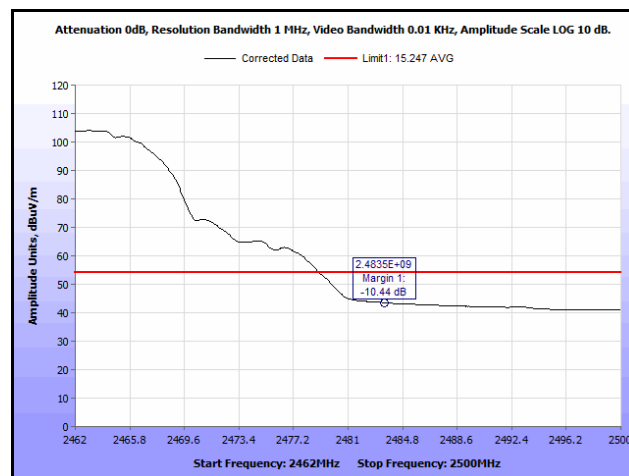
Radiated Band Edge Measurements, 802.11b, ANT-BG080-NM



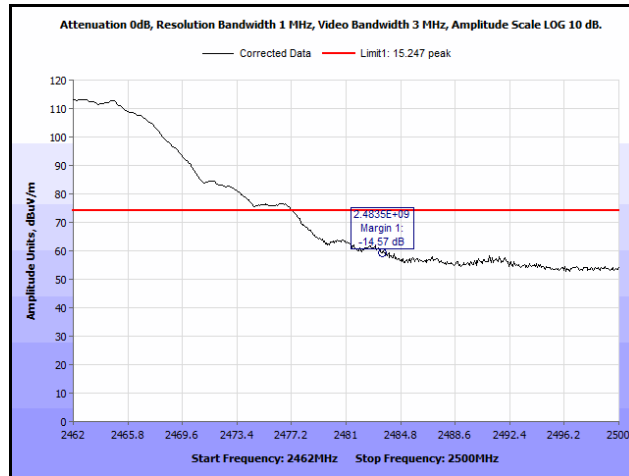
Plot 202. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11b, ANT-BG080-NM, Average



Plot 203. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11b, ANT-BG080-NM, Peak

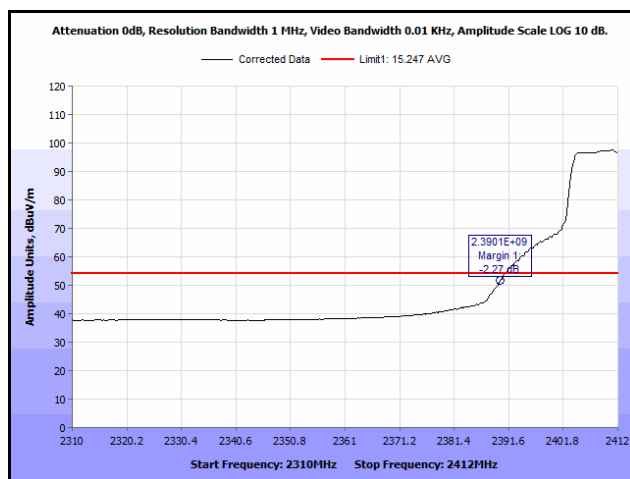


Plot 204. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11b, ANT-BG080-NM, Average

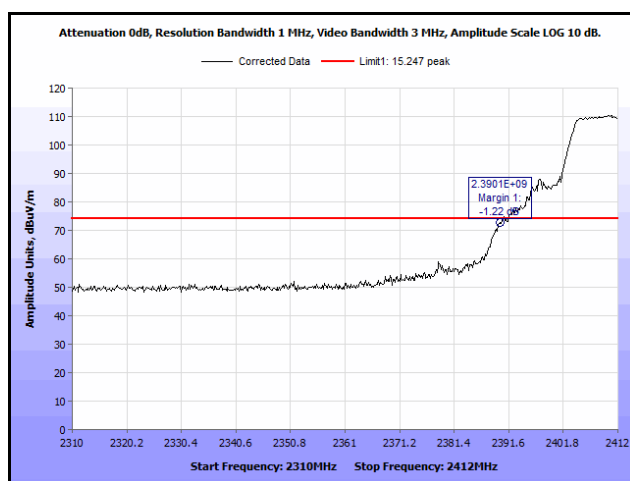


Plot 205. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11b, ANT-BG080-NM, Peak

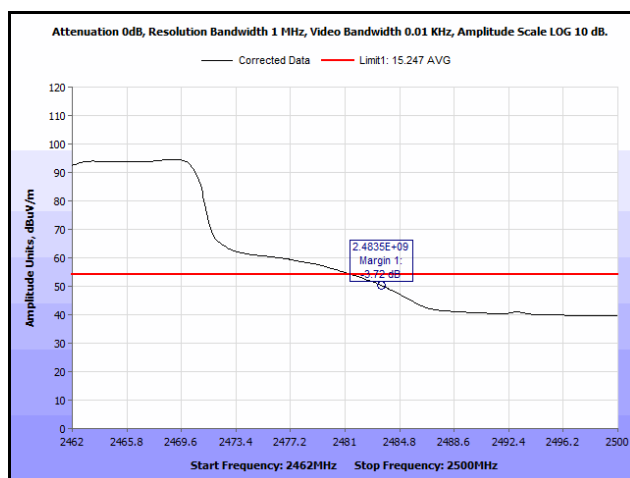
Radiated Band Edge Measurements, 802.11g 20 MHz, ANT-BG080-NM



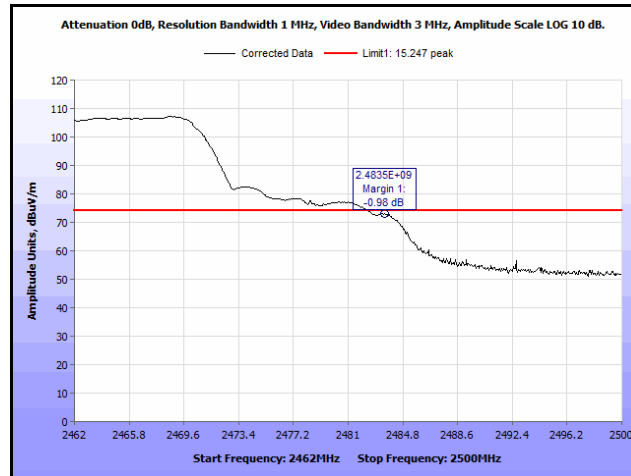
Plot 206. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11g 20 MHz, ANT-BG080-NM, Average



Plot 207. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11g 20 MHz, ANT-BG080-NM, Peak

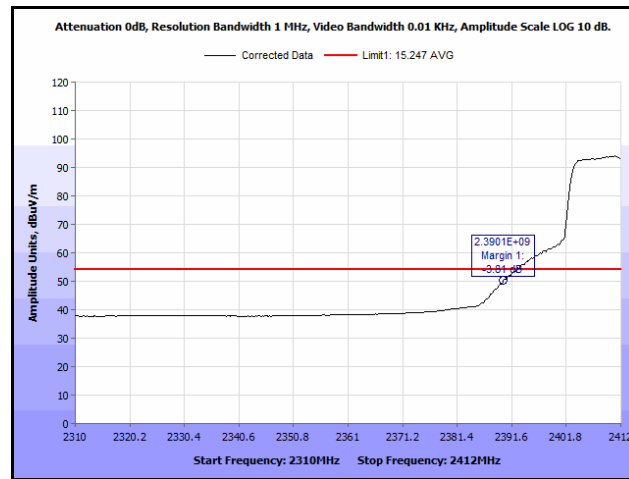


Plot 208. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11g 20 MHz, ANT-BG080-NM, Average

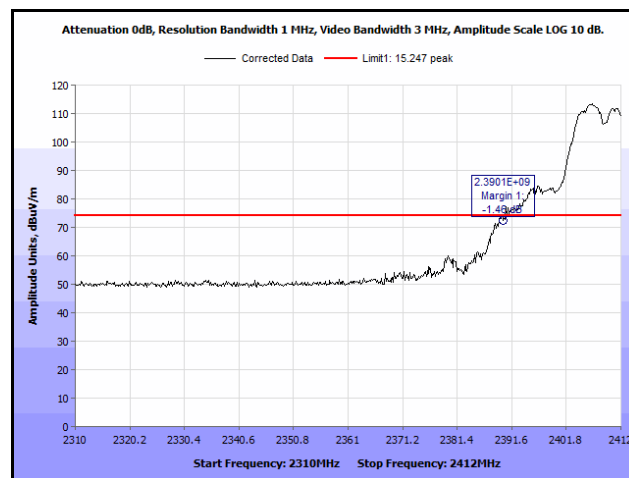


Plot 209. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11g 20 MHz, ANT-BG080-NM, Peak

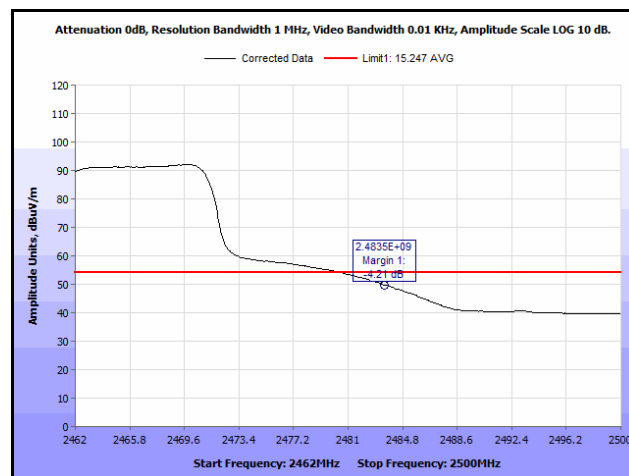
Radiated Band Edge Measurements, 802.11n 20 MHz, ANT-BG080-NM



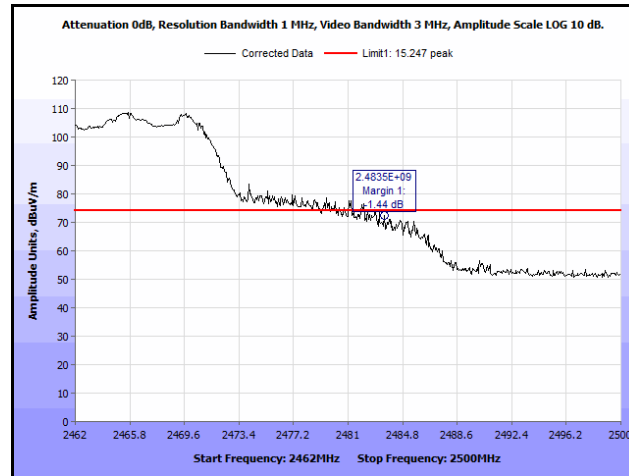
Plot 210. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11n 20 MHz, ANT-BG080-NM, Average



Plot 211. Radiated Restricted Band Edge, 2412 MHz @ 2390 MHz, 802.11n 20 MHz, ANT-BG080-NM, Peak



Plot 212. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11n 20 MHz, ANT-BG080-NM, Average



Plot 213. Radiated Restricted Band Edge, 2462 MHz @ 2483.5 MHz, 802.11n 20 MHz, ANT-BG080-NM, Peak