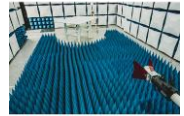




# PCTEST ENGINEERING LABORATORY, INC.

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## MEASUREMENT REPORT FCC PART 15.247 / ISSED RSS-247 WLAN 802.11b/g/n

**Applicant Name:**

Apple Inc.  
One Apple Park Way  
Cupertino, CA 95014  
United States

**Date of Testing:**

5/25/2018 - 8/18/2018

**Test Site/Location:**

PCTEST Lab. Morgan Hill, CA, USA

**Test Report Serial No.:**

1C1806040007-05.BCG

**FCC ID:**

BCG-A2008

**IC:**

579C-A2008

**APPLICANT:**

Apple Inc.

**Application Type:**

Certification

**Model/HVIN:**

A2008

**EUT Type:**

Watch

**Frequency Range:**

2412 – 2472MHz

**FCC Classification:**

Digital Transmission System (DTS)

**FCC Rule Part(s):**

Part 15 Subpart C (15.247)

**ISED Specification:**


RSS-247 Issue 2

**Test Procedure(s):**

ANSI C63.10-2013, KDB 558074 D01 v05

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 558074 D01 v05. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

  
Randy Ortanez  
President



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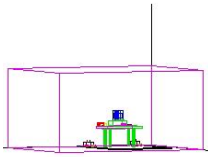
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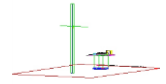
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## MEASUREMENT REPORT



Mode	Tx Frequency (MHz)	Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
802.11b	2412 - 2472	79.433	19.00	148.936	21.73
802.11g	2412 - 2472	70.795	18.50	201.372	23.04
802.11n	2412 - 2472	70.795	18.50	201.837	23.05

### EUT Overview

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## 1.0 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

### 1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

### 1.3 Test Facility / Accreditations

**Measurements were performed at PCTEST Engineering Lab located in Morgan Hill, CA 95037, U.S.A.**

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISSED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A2008**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

**Test Device Serial No.:** C89WP002K47Q, C89WT02UK47L

### 2.2 Device Capabilities

This device contains the following capabilities:

850 WCDMA/HSPA, Multi-band LTE, 802.11b/g/n WLAN, Bluetooth (1x, EDR, HDR4, HDR8, LE), NFC

**Note:** The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of ANSI C63.10-2013 and KDB 558074 D01 v05. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Maximum Achievable Duty Cycles		
802.11 Mode/Band		Duty Cycle [%]
2.4GHz	b	99.8
	g	99.2
	n	99.1

**Table 2-1. Measured Duty Cycles**

Data Rates Supported: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps (b)  
 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (g)  
 6.5/7.2Mbps, 13/14.4Mbps, 19.5/21.7Mbps, 26/28.9Mbps, 39/43.3Mbps,  
 52/57.8Mbps, 58.5/65Mbps, 65/72.2Mbps (n)

### 2.3 Antenna Description

Following antenna was used for the testing.

Frequency [GHz]	Antenna Gain (dBi)
2.4	-12.2

**Table 2-2. Antenna Peak Gain**

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## 2.4 Test Support Equipment

1	Apple MacBook	Model:	A1398	S/N:	C2QKP008F6F3
	w/AC/DC Adapter	Model:	A1435	S/N:	
2	Apple USB Cable	Model:	Kanzi	S/N:	316F8A
	w/ Charging Dock	Model:	FAPS73	S/N:	17242000868
	w/ Dock	Model:	X241	S/N:	GW17E01ST28
3	USB Lightning Cable	Model:	N/A	S/N:	N/A
	w/ AC Adapter	Model:	A1265	S/N:	1X0450PGS8QZ
4	Wireless Charging Pad (WCP)	Model:	DVT-2a	S/N:	DLC824400H9J0V64U
	Wireless Charging Pad (WCP)	Model:	DVT-1d	S/N:	DLC824401XHJLW04U
5	Test Pathfinder Mogao Board	Model:	X920	S/N:	920-04087-03
	w/ EVT SiP Cradle	Model:	X920	S/N:	PF 2016
6	DC Power Supply	Model:	KPS3010D	S/N:	N/A

**Table 2-3. Test Support Equipment Used**

## 2.5 Test Configuration

The worst case configuration was investigated for all combinations of the two materials, aluminum and stainless steel, and various types of wristbands, metal and non-metal wristbands. The store display sample was investigated and determined as not the worst case. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and worst case was reported.

- EUT powered by AC/DC adaptor via USB cable with wireless charger
- EUT powered by host PC via USB cable with wireless charger

## 2.6 Software and Firmware

The test was conducted with firmware version wOS 5.0 installed on the EUT.

## 2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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## 3.0 DESCRIPTION OF TESTS

### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 v05 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50 $\Omega$ /50 $\mu$ H Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.20.01.

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### 3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

### 3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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## 4.0 ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antennas of the EUT are **permanently attached**.
- There are no provisions for connections to an external antenna.

### Conclusion:

The EUT unit complies with the requirement of §15.203.

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## 5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ( $\pm$ dB)
Conducted Bench Top Measurements	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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## 6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Anritsu	ML2495A	Power Meter	11/28/2017	Annual	11/28/2018	1039008
Anritsu	MA2411B	Power Sensor 10MHz-40GHz	11/28/2017	Annual	11/28/2018	1027293
COM-POWER	LIN-120A	LISN	3/7/2018	Annual	3/7/2019	241296
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	2/27/2018	Annual	2/27/2019	MY49430244
Maturo	NCD/264/205616	Mast/TT controller	N/A	N/A	N/A	NCD_264
Rohde & Schwarz	ESW44	EMI Test Receiver	12/20/2017	Annual	12/20/2018	101668
Rohde & Schwarz	ESW44	EMI Test Receiver	11/16/2017	Annual	11/16/2018	101570
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	2/6/2018	Annual	2/6/2019	101619
Rohde & Schwarz	SFUNIT-RX	Shielded Filter Unit	9/11/2017	Annual	9/11/2018	102132
Rohde & Schwarz	SFUNIT-RX	Shielded Filter Unit	12/11/2017	Annual	12/11/2018	102136
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/11/2018	Annual	6/11/2019	100051
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	1/25/2018	Annual	1/25/2019	102333
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/13/2018	Annual	3/13/2019	T058601-02
Rohde & Schwarz	HL562E	Ultra Broadband Antenna (30MHz - 6GHz)	6/8/2018	Annual	6/8/2019	100810
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Antenna (400MHz-18GHz)	11/13/2017	Annual	11/13/2018	101057
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Antenna (400MHz-18GHz)	11/29/2017	Annual	11/29/2018	101063
Rohde & Schwarz	HFH2-Z2	Loop Antenna	3/13/2018	Annual	3/13/2019	100519

**Table 6-1. Annual Test Equipment Calibration Schedule**

### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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## 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.

FCC ID: BCG-A2008

FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.2
15.247(b)(3)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		PASS	Section 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen[8.8])	LINE CONDUCTED	PASS	Section 7.9

**Table 7-1. Summary of Test Results**

#### Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "WLAN Automation," Version 3.5.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "Chamber Automation," Version 0.2.15.

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## 7.2 6dB Bandwidth Measurement

§15.247(a.2); RSS-247 [5.2]

### Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

***The minimum permissible 6dB bandwidth is 500 kHz.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2  
KDB 558074 D01 v05 – Section 8.2

### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-1. Test Instrument & Measurement Setup**

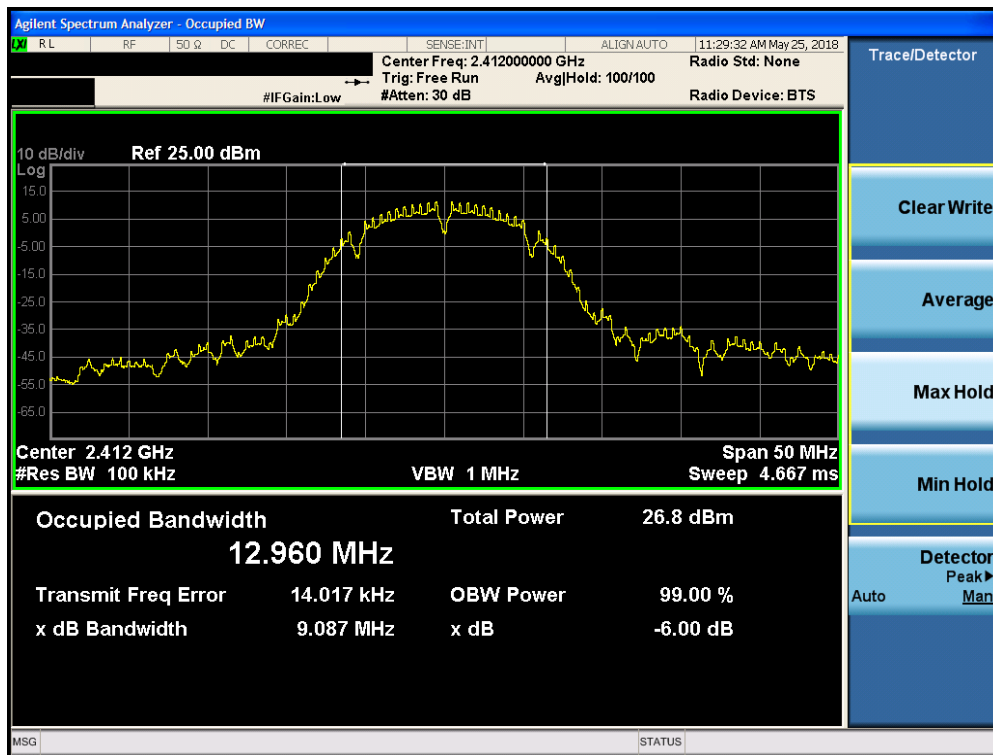
### Test Notes

None

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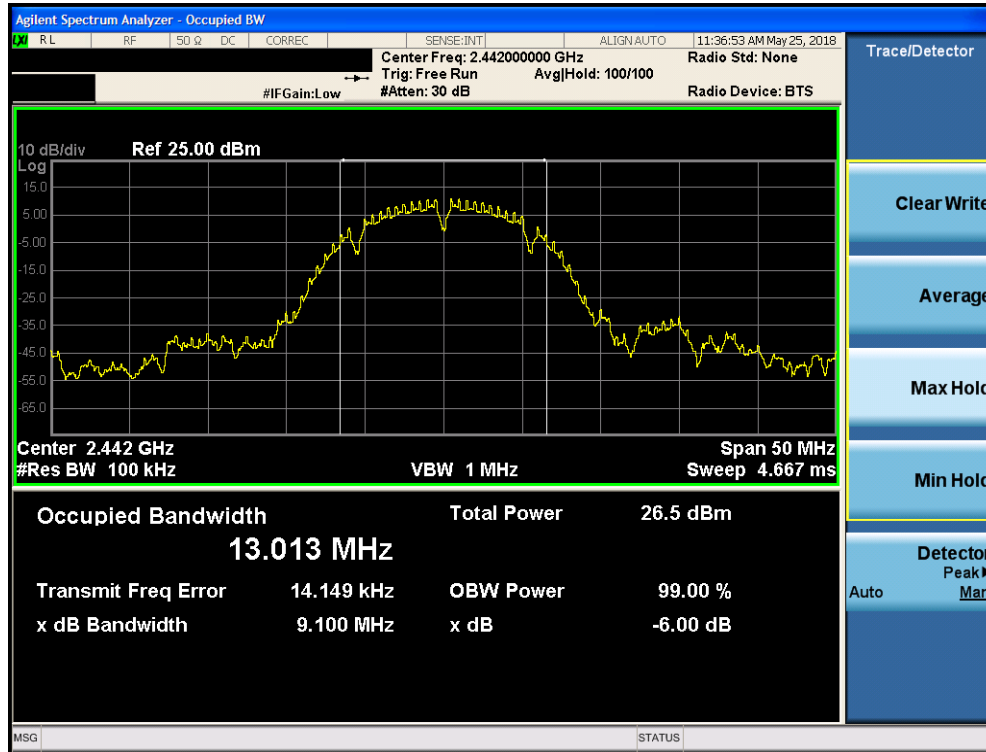
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]
2412	1	b	1	9.087	0.500
2442	7	b	1	9.100	0.500
2472	13	b	1	8.583	0.500
2412	1	g	6	16.40	0.500
2442	7	g	6	16.40	0.500
2472	13	g	6	16.37	0.500
2412	1	n	6.5/7.2 (MCS0)	18.16	0.500
2442	7	n	6.5/7.2 (MCS0)	17.87	0.500
2472	13	n	6.5/7.2 (MCS0)	18.18	0.500

**Table 7-2. Conducted Bandwidth Measurements**



**Plot 7-1. 6dB Bandwidth Plot (802.11b – Ch. 1)**

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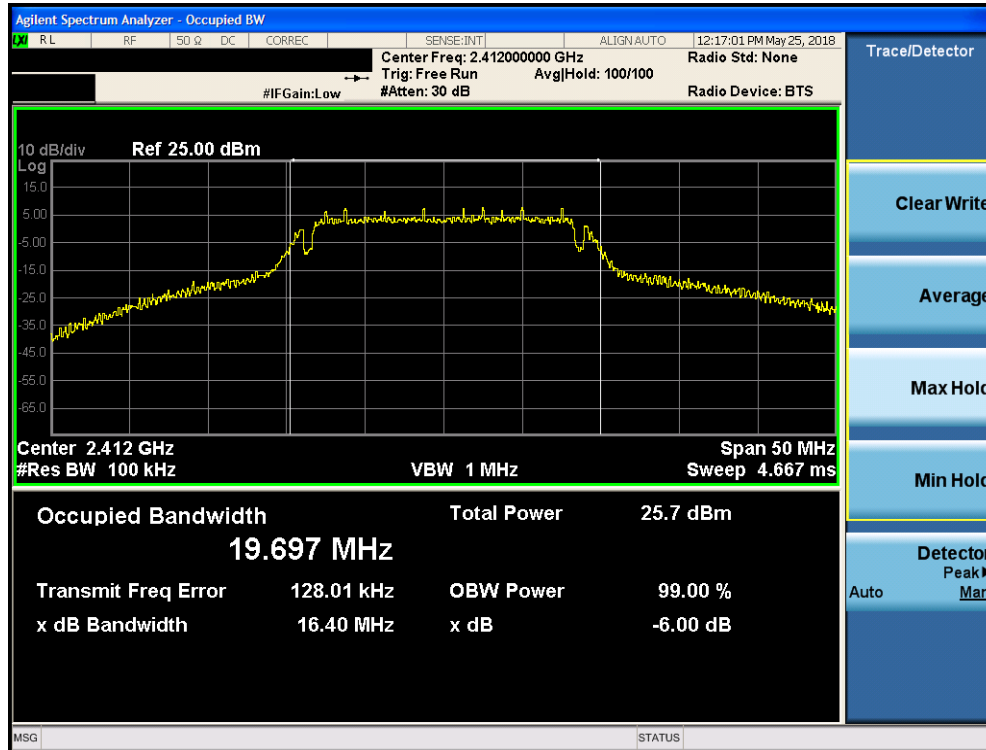


Plot 7-2. 6dB Bandwidth Plot (802.11b – Ch. 7)

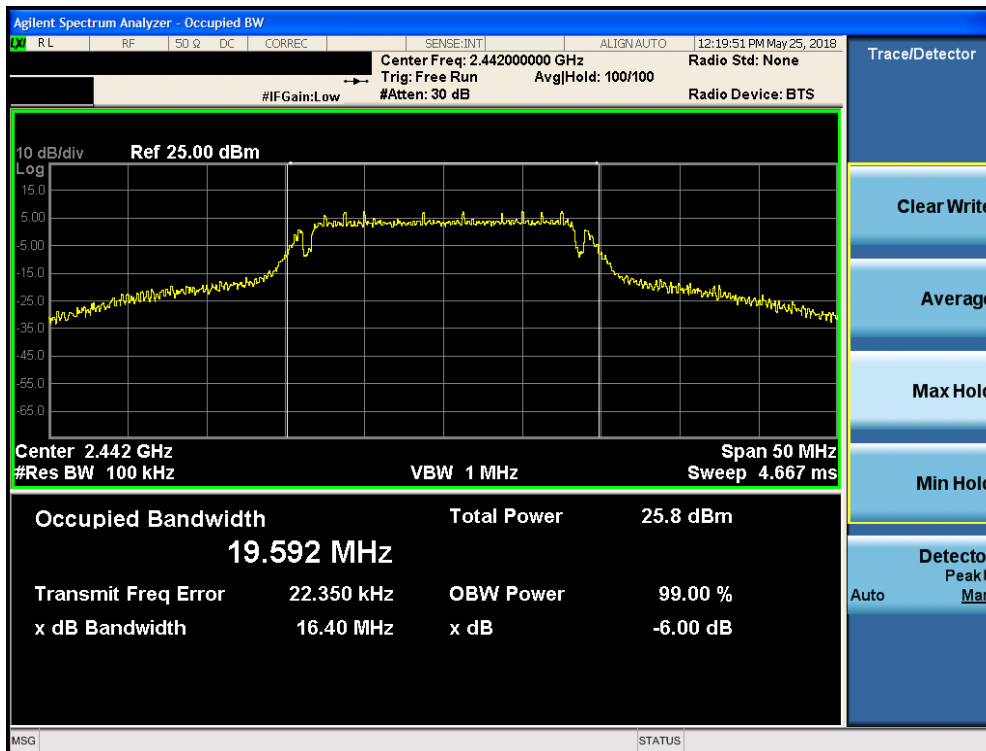


Plot 7-3. 6dB Bandwidth Plot (802.11b – Ch. 13)

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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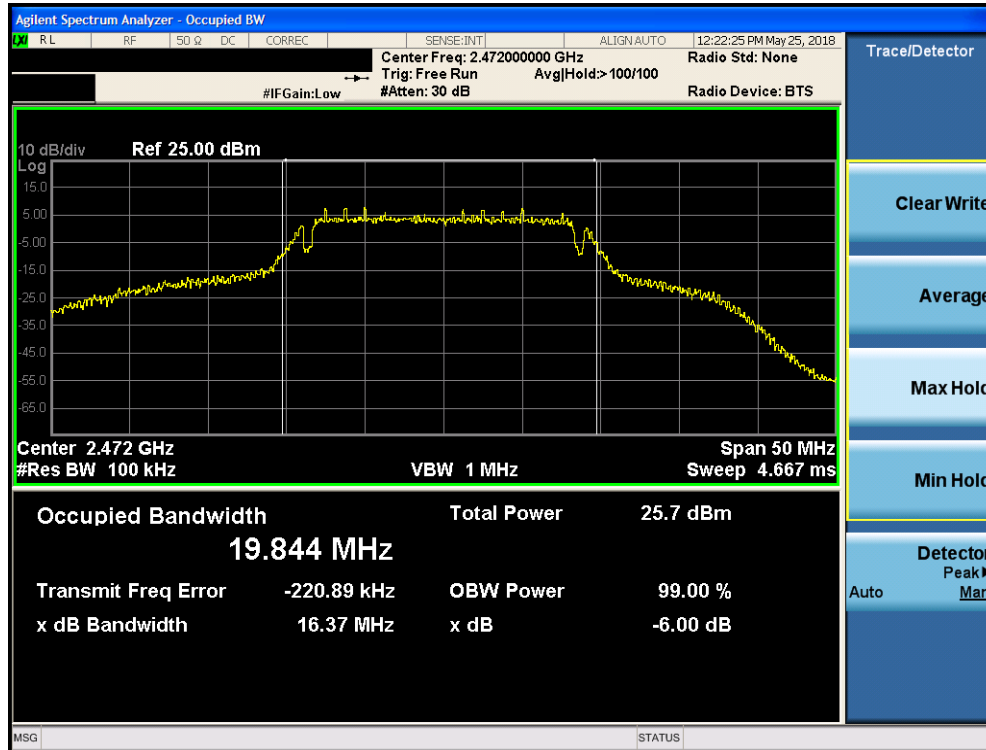
Plot 7-4. 6dB Bandwidth Plot (802.11g – Ch. 1)



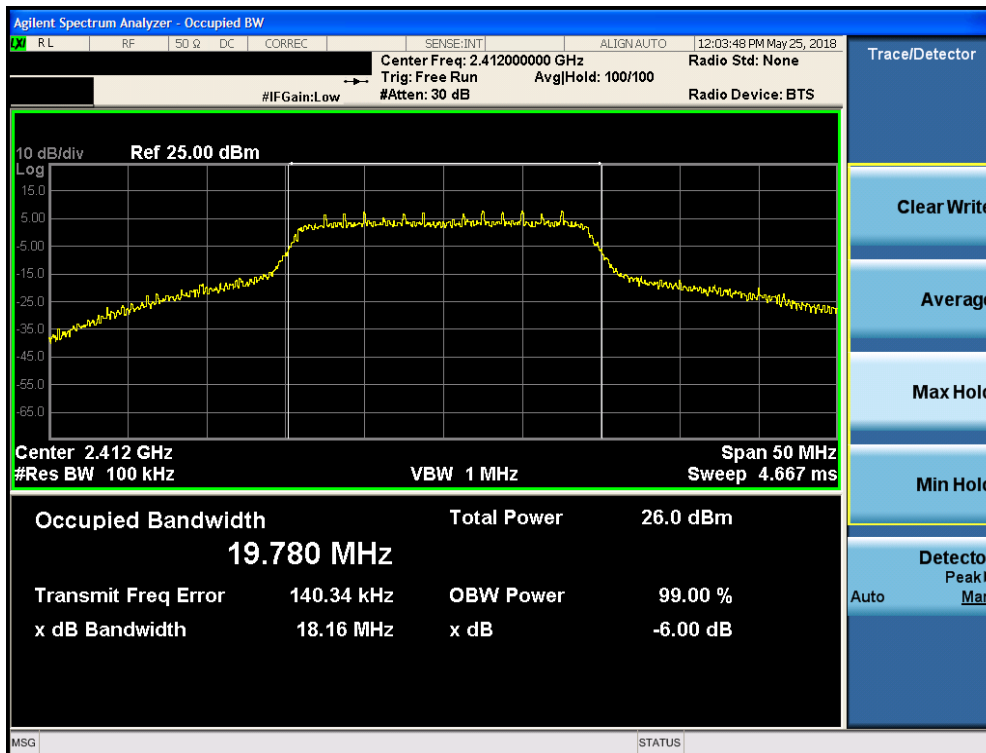
Plot 7-5. 6dB Bandwidth Plot (802.11g – Ch. 7)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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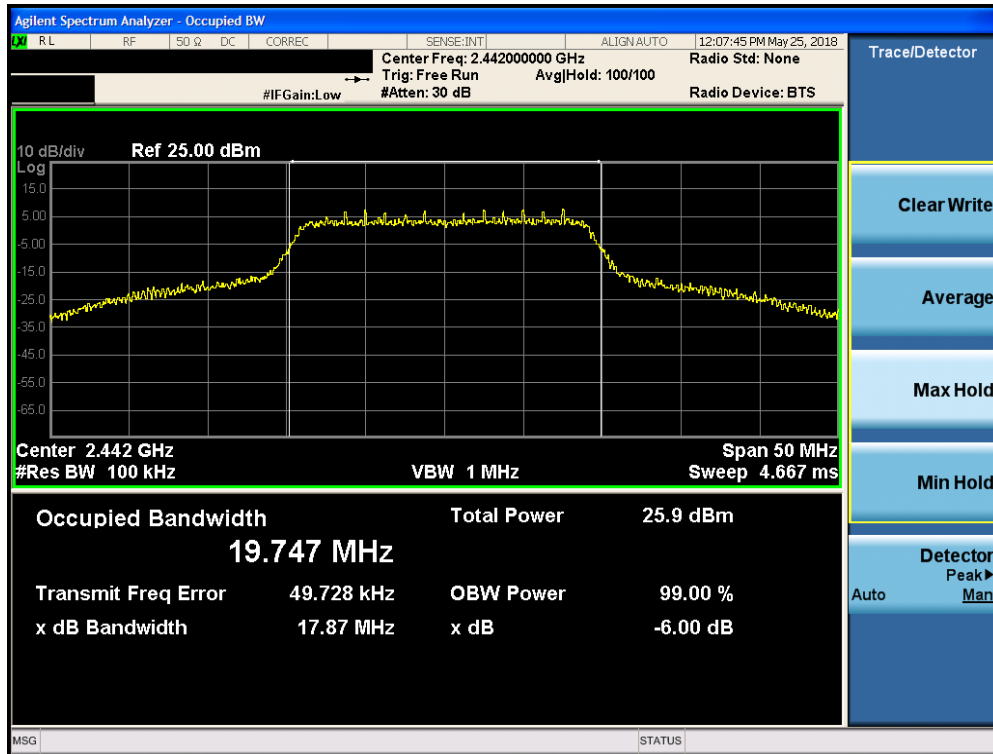


Plot 7-6. 6dB Bandwidth Plot (802.11g – Ch. 13)

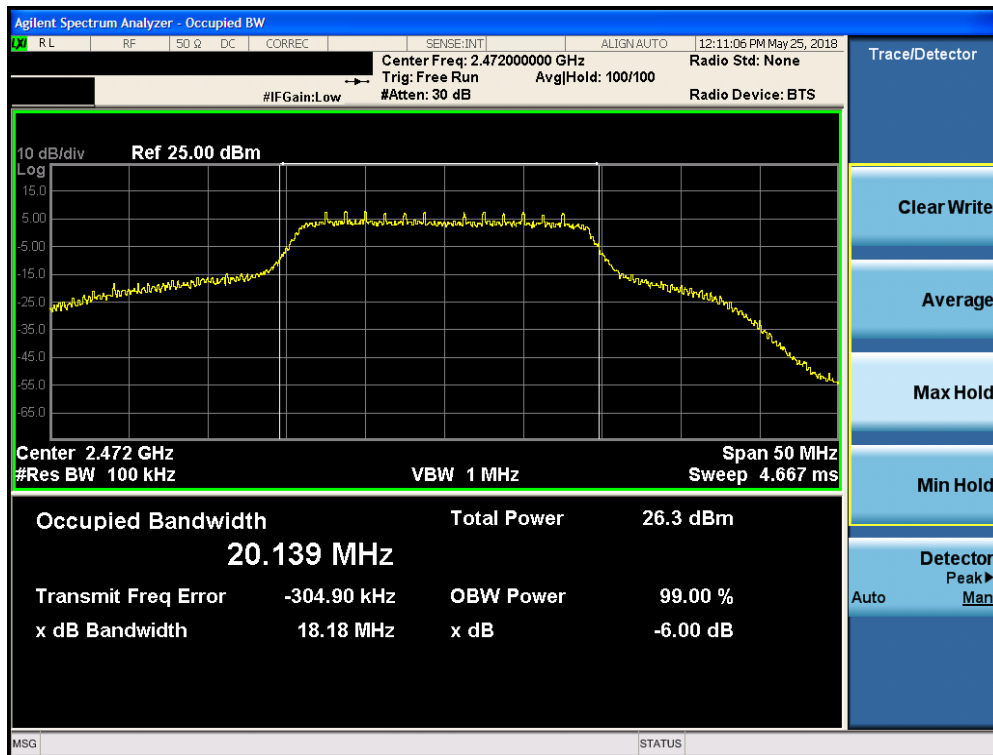


Plot 7-7. 6dB Bandwidth Plot (802.11n (2.4GHz) – Ch. 1)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 17 of 61



Plot 7-8. 6dB Bandwidth Plot (802.11n (2.4GHz) – Ch. 7)



Plot 7-9. 6dB Bandwidth Plot (802.11n (2.4GHz) – Ch. 13)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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## 7.3 Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

### Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

***The maximum permissible conducted output power is 1 Watt.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.9.1.3

ANSI C63.10-2013 – Section 11.9.2.3.2

KDB 558074 D01 v05 – Section 8.3.1.3

### Test Settings

#### Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

#### Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

### Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements**

### Test Notes

None

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### 7.3.1 Peak Output Power Measurement

§15.247(b.3), RSS-247 [5.4(d)]

Freq [MHz]	Channel	Detector	IEEE Transmission Mode			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n						
2412	1	PEAK	21.38	22.47	22.49	30.00	-7.51	-12.20	10.29	36.02	-25.73
2417	2	PEAK	21.29	22.76	22.79	30.00	-7.21	-12.20	10.59	36.02	-25.43
2437	6	PEAK	21.33	23.03	23.02	30.00	-6.97	-12.20	10.83	36.02	-25.19
2442	7	PEAK	21.73	23.04	23.05	30.00	-6.95	-12.20	10.85	36.02	-25.17
2457	10	PEAK	21.33	22.96	22.98	30.00	-7.02	-12.20	10.78	36.02	-25.24
2462	11	PEAK	21.33	22.57	22.50	30.00	-7.43	-12.20	10.37	36.02	-25.65
2467	12	PEAK	21.33	22.58	22.45	30.00	-7.42	-12.20	10.38	36.02	-25.64
2472	13	PEAK	20.37	16.22	15.74	30.00	-9.63	-12.20	8.17	36.02	-27.85

**Table 7-3. Peak Conducted Output Power Measurements**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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### 7.3.2 Average Output Power Measurement

§15.247(b.3), RSS-247 [5.4(d)]

Freq [MHz]	Channel	Detector	IEEE Transmission Mode			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n						
2412	1	AVG	19.00	17.49	17.49	30.00	-11.00	-12.20	6.80	36.02	-29.22
2417	2	AVG	18.97	18.50	18.50	30.00	-11.03	-12.20	6.77	36.02	-29.25
2437	6	AVG	19.00	18.48	18.48	30.00	-11.00	-12.20	6.80	36.02	-29.22
2442	7	AVG	18.97	18.42	18.50	30.00	-11.03	-12.20	6.77	36.02	-29.25
2457	10	AVG	19.00	18.41	18.44	30.00	-11.00	-12.20	6.80	36.02	-29.22
2462	11	AVG	19.00	17.48	17.50	30.00	-11.00	-12.20	6.80	36.02	-29.22
2467	12	AVG	19.00	15.00	14.94	30.00	-11.00	-12.20	6.80	36.02	-29.22
2472	13	AVG	18.00	6.88	6.85	30.00	-12.00	-12.20	5.80	36.02	-30.22

**Table 7-4. Average Conducted Output Power Measurements**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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## 7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

### Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

***The maximum permissible power spectral density is 8 dBm in any 3 kHz band.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD  
KDB 558074 D01 v05 – Section 8.4

### Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 10kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-3. Test Instrument & Measurement Setup**

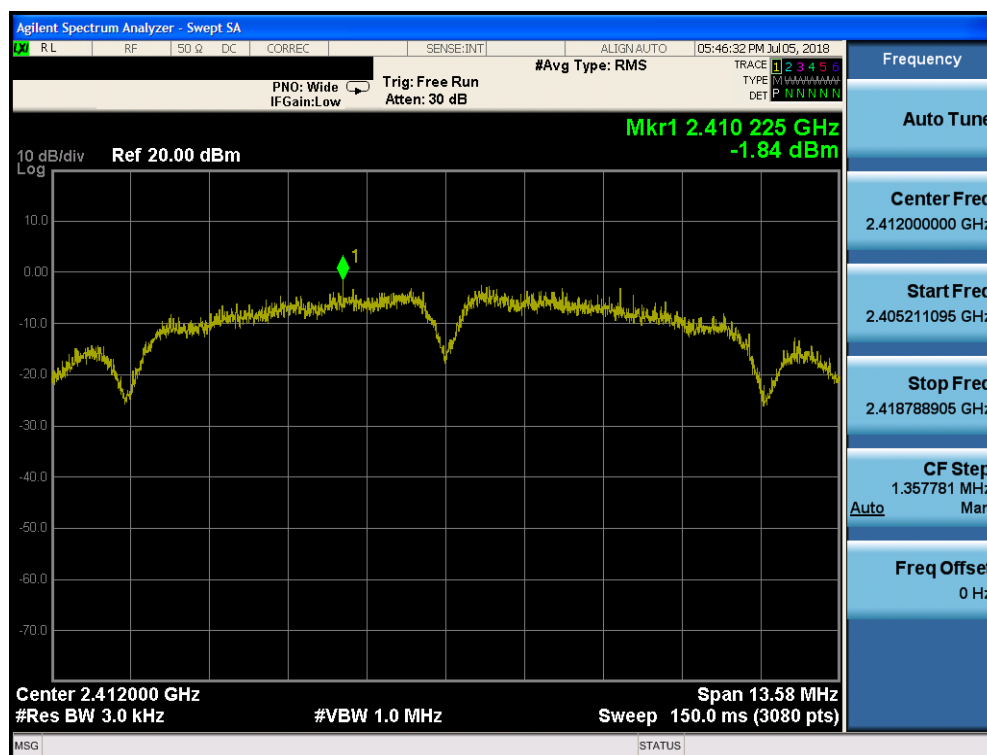
### Test Notes

Lowest and highest channel that can transmit at maximum power for each mode has been reported.

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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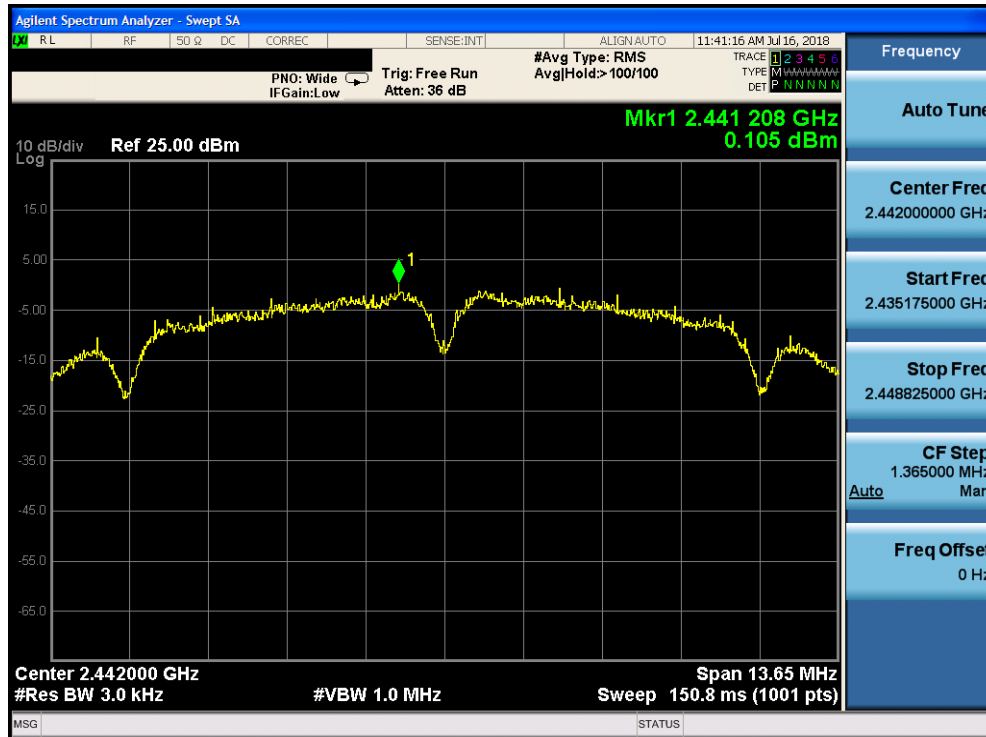
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-1.84	8.00	-9.84	Pass
2442	7	b	1	0.11	8.00	-7.90	Pass
2472	12	b	1	-2.83	8.00	-10.83	Pass
2412	2	g	6	-5.71	8.00	-13.71	Pass
2442	7	g	6	-4.66	8.00	-12.66	Pass
2472	10	g	6	-7.57	8.00	-15.57	Pass
2412	2	n	6.5/7.2 (MCS0)	-5.15	8.00	-13.15	Pass
2442	7	n	6.5/7.2 (MCS0)	-4.84	8.00	-12.84	Pass
2472	10	n	6.5/7.2 (MCS0)	-5.79	8.00	-13.79	Pass

Table 7-5. Conducted Power Density Measurements

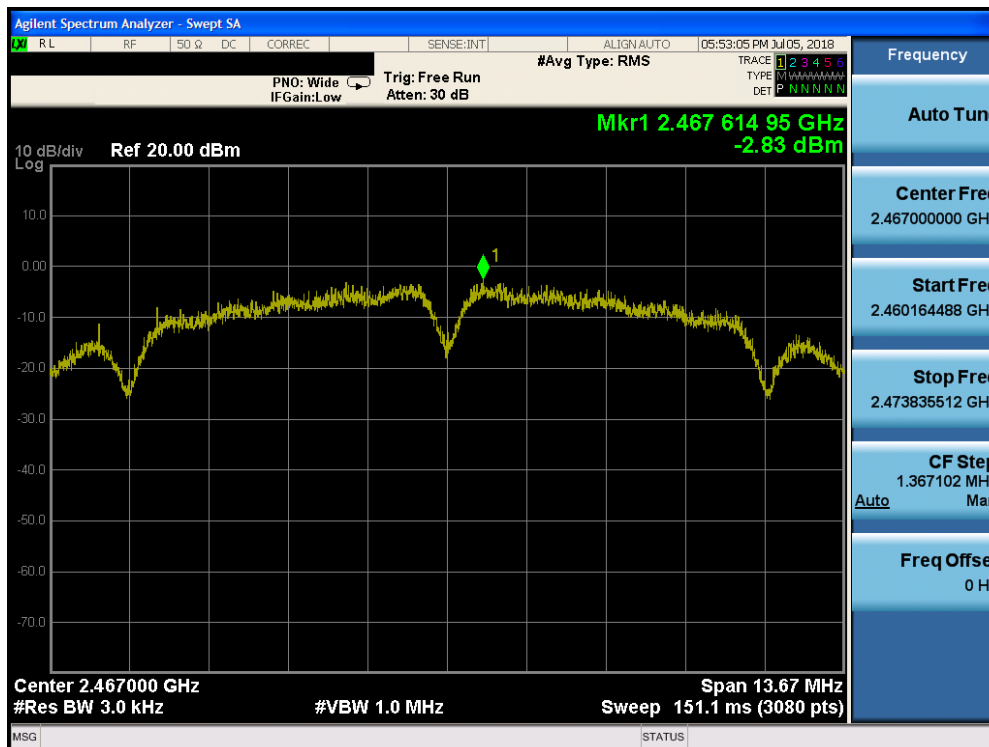


Plot 7-10. Power Spectral Density Plot (802.11b – Ch. 1)

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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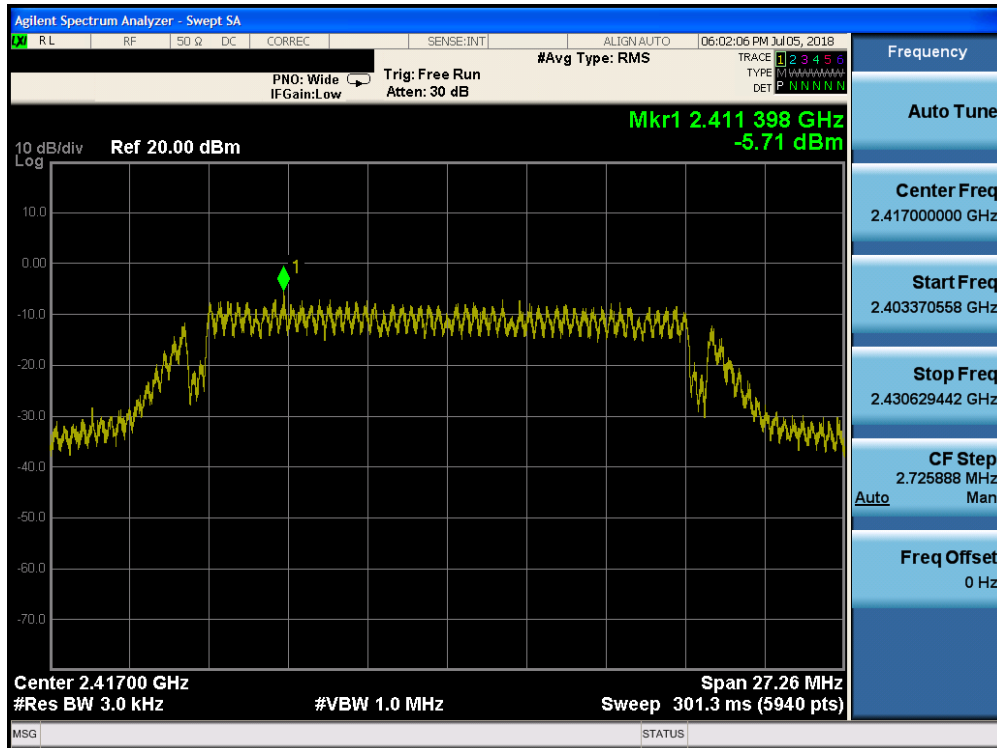
Plot 7-11. Power Spectral Density Plot (802.11b – Ch. 7)



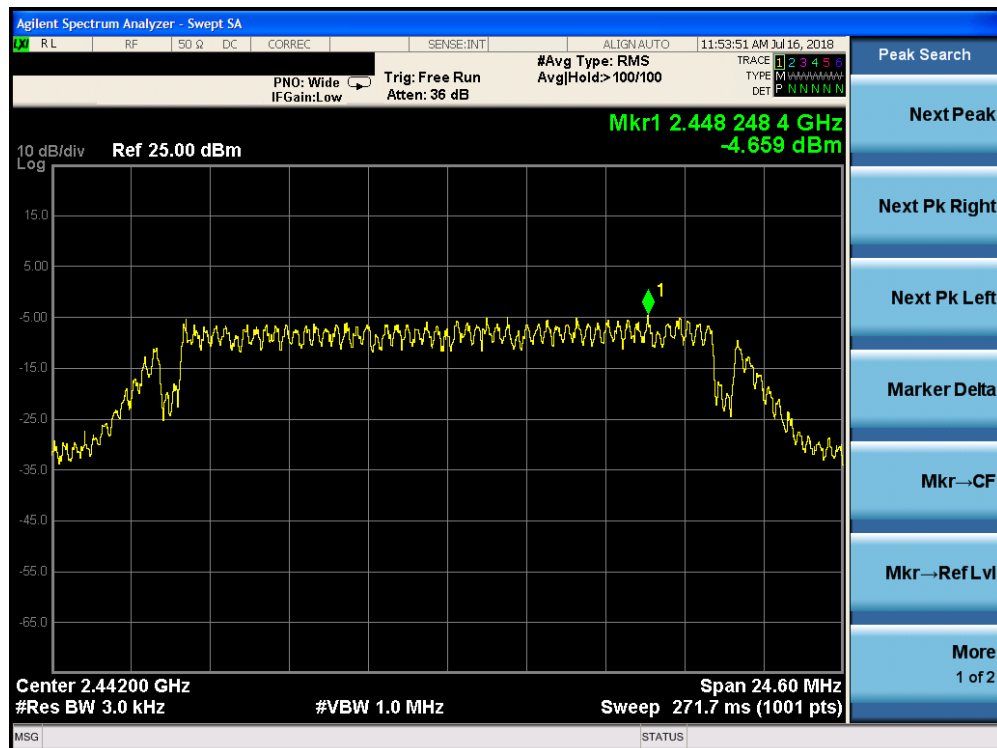
Plot 7-12. Power Spectral Density Plot (802.11b – Ch. 12)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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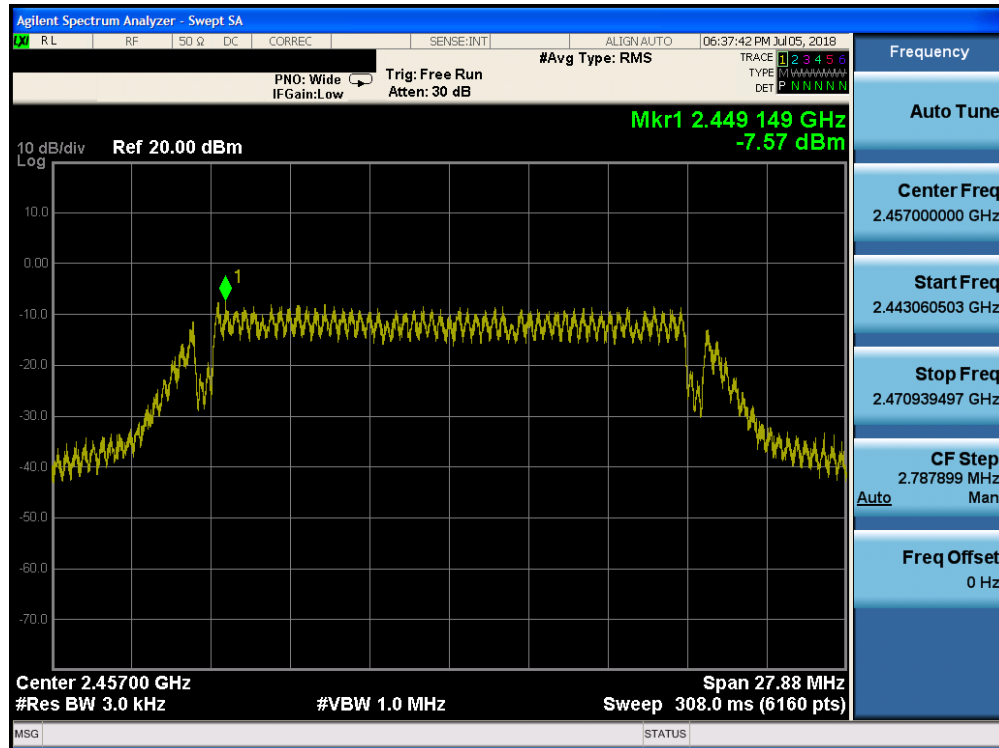


Plot 7-13. Power Spectral Density Plot (802.11g – Ch. 2)

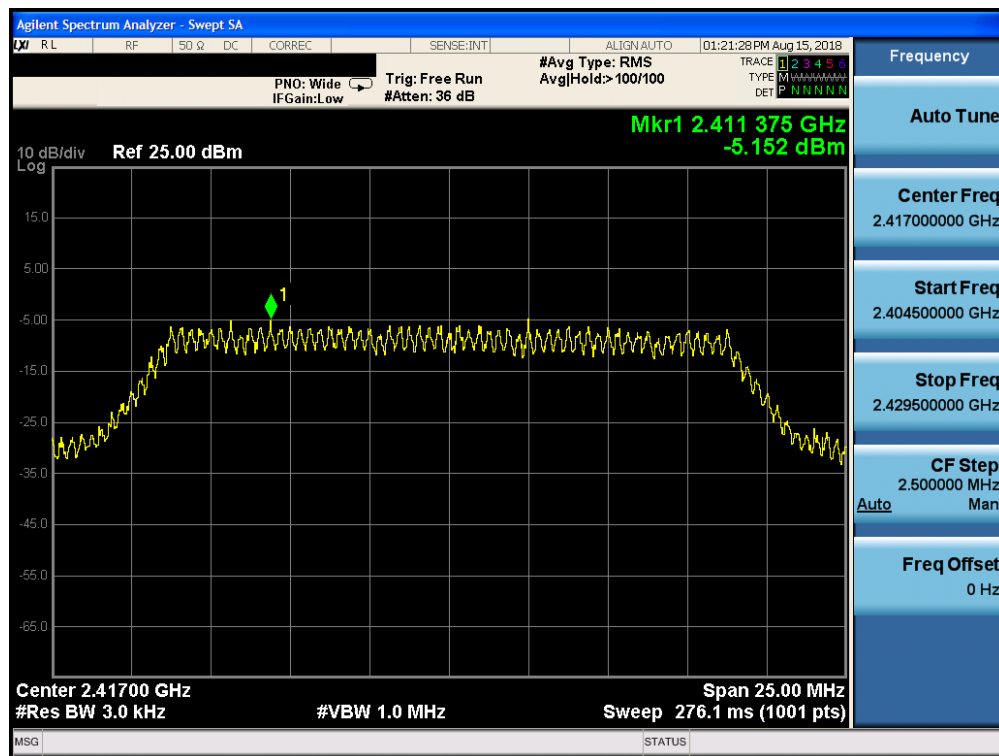


Plot 7-14. Power Spectral Density Plot (802.11g – Ch. 7)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 25 of 61

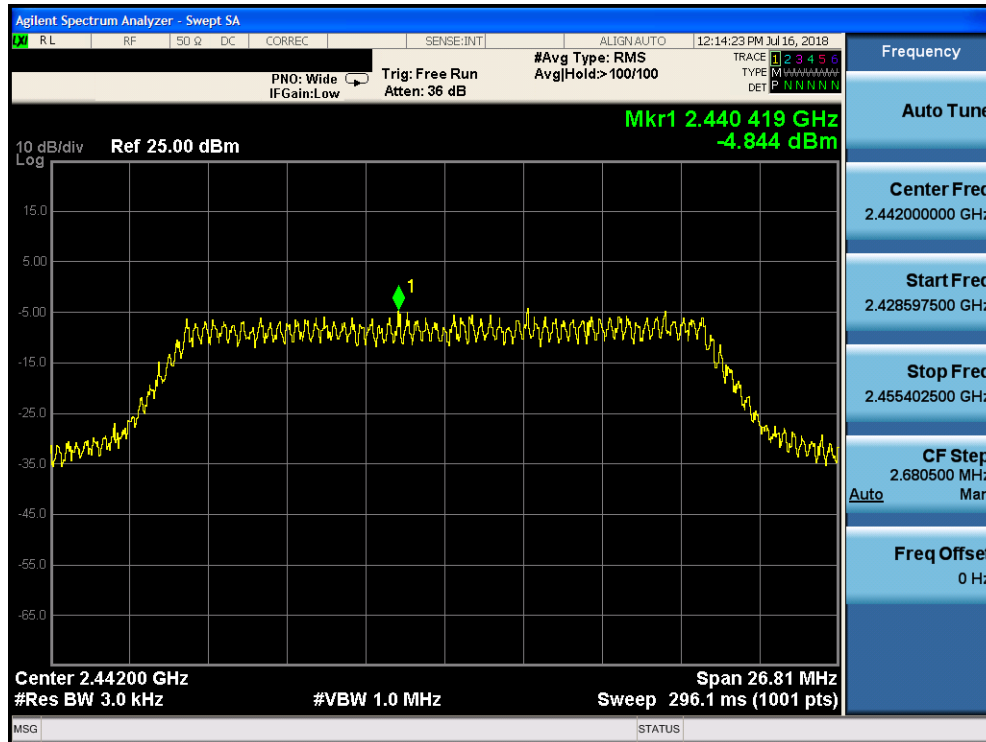


Plot 7-15. Power Spectral Density Plot (802.11g – Ch. 10)

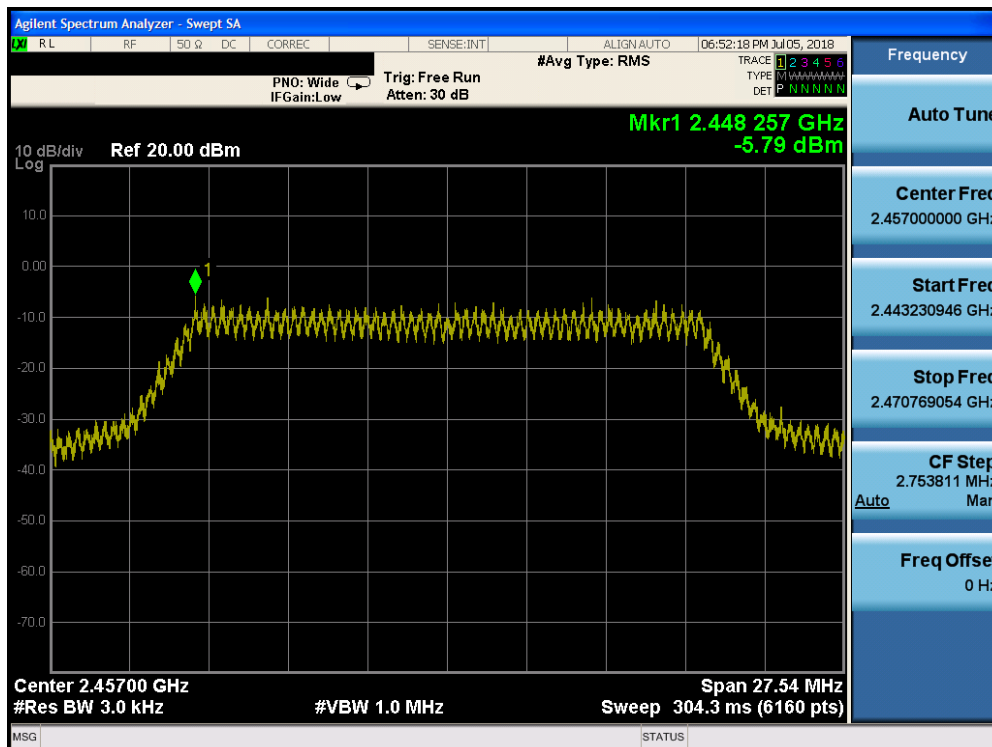


Plot 7-16. Power Spectral Density Plot (802.11n (2.4GHz) – Ch. 2)

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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Plot 7-17. Power Spectral Density Plot (802.11n (2.4GHz) – Ch. 7)



Plot 7-18. Power Spectral Density Plot (802.11n (2.4GHz) – Ch. 10)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 27 of 61

## 7.5 Conducted Emissions at the Band Edge

§15.247(d); RSS-247 [5.5]

### Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, and 6.5/7.2Mbps for “n” mode as these settings produced the worst-case emissions.

***The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
KDB 558074 D01 v05 – Section 8.7.2

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points  $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

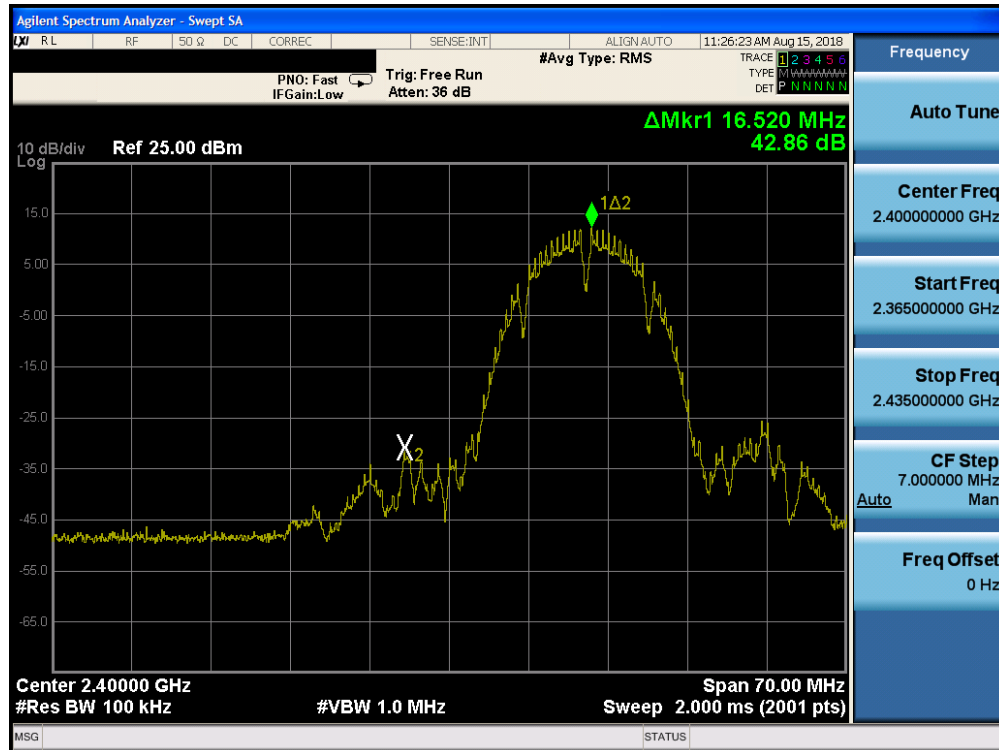


**Figure 7-4. Test Instrument & Measurement Setup**

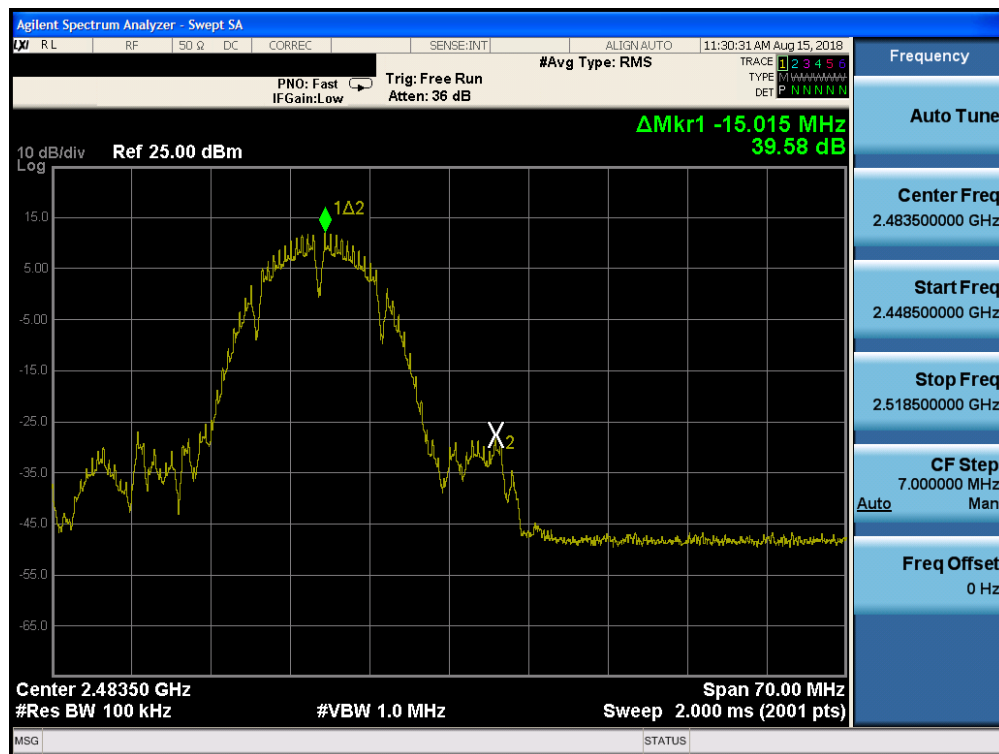
### Test Notes

None

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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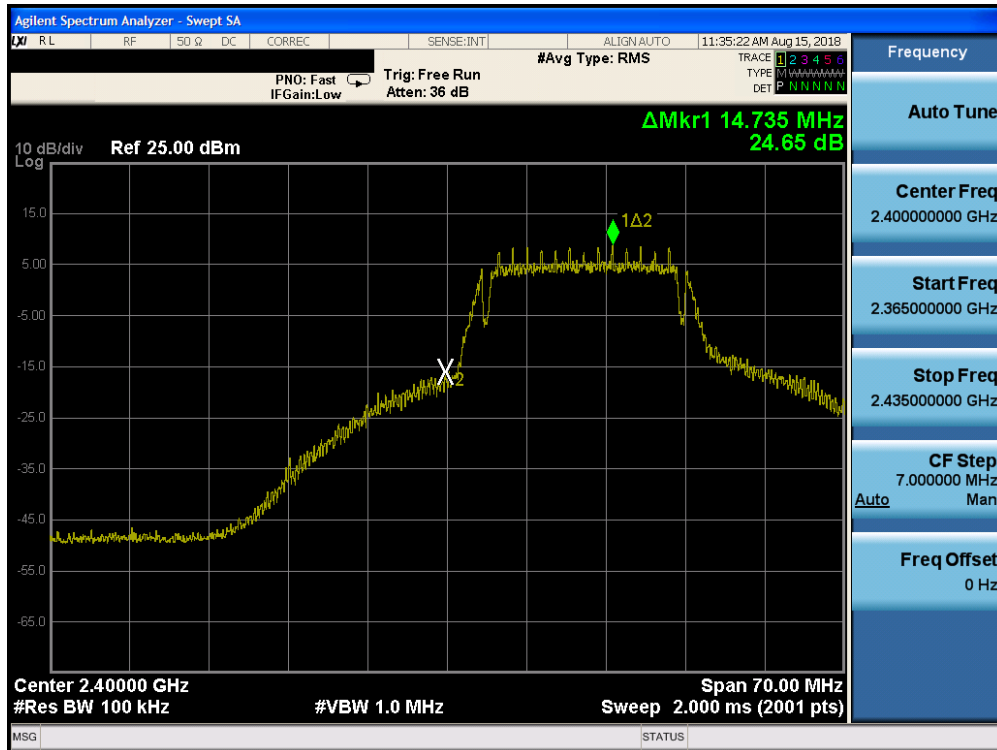


Plot 7-19. Band Edge Plot (802.11b – Ch. 1)

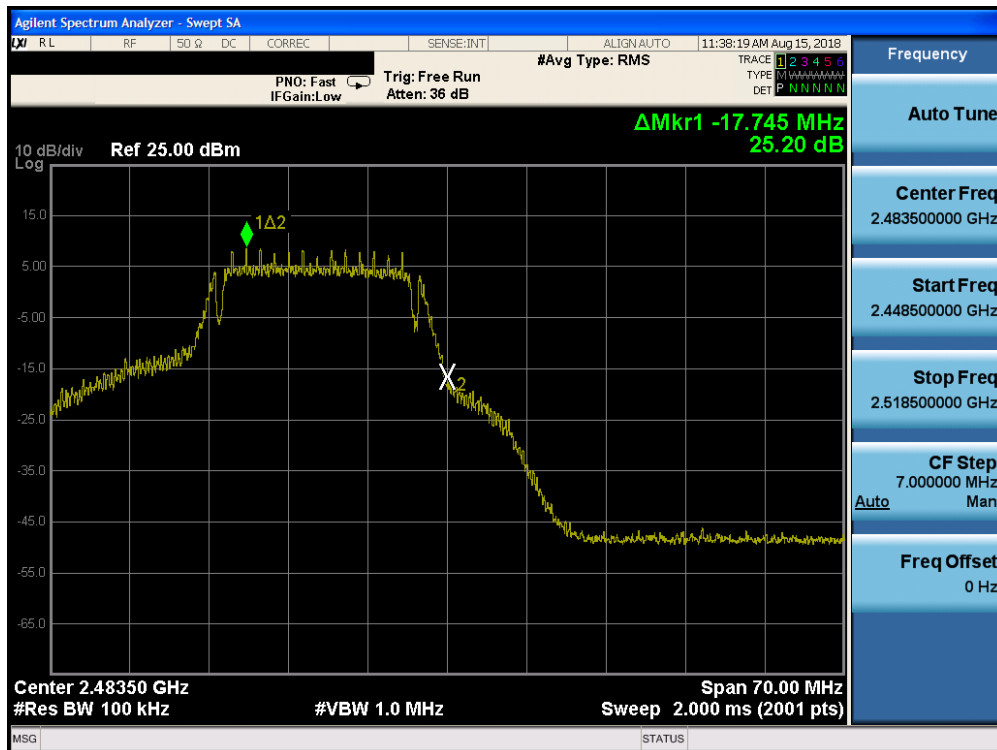


Plot 7-20. Band Edge Plot (802.11b – Ch. 13)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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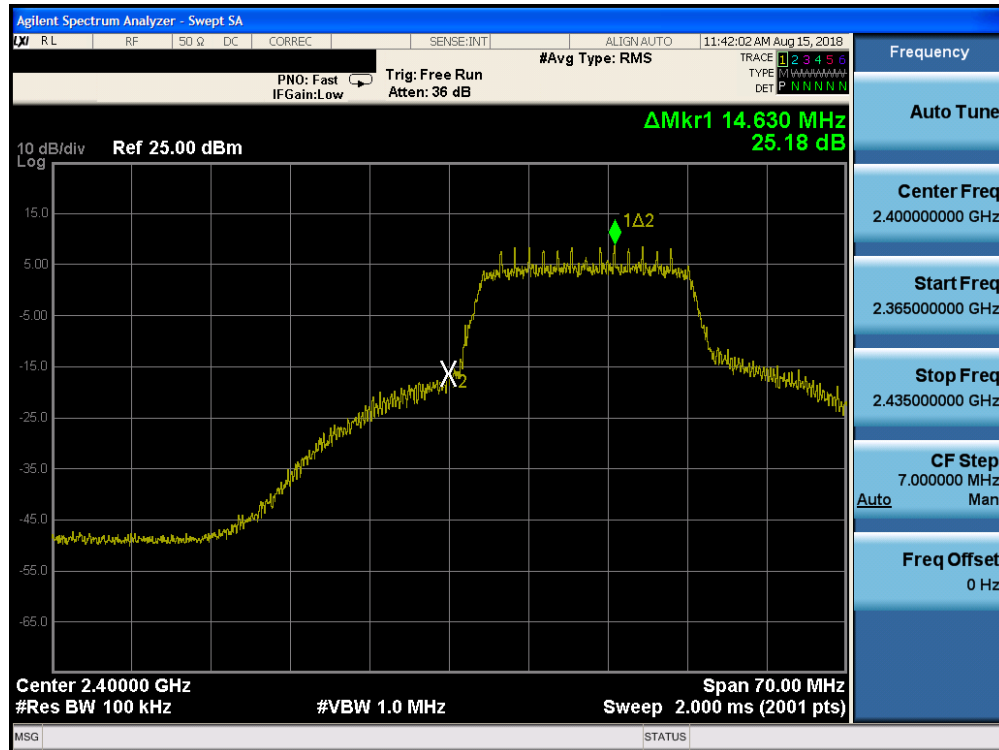


Plot 7-21. Band Edge Plot (802.11g– Ch. 1)

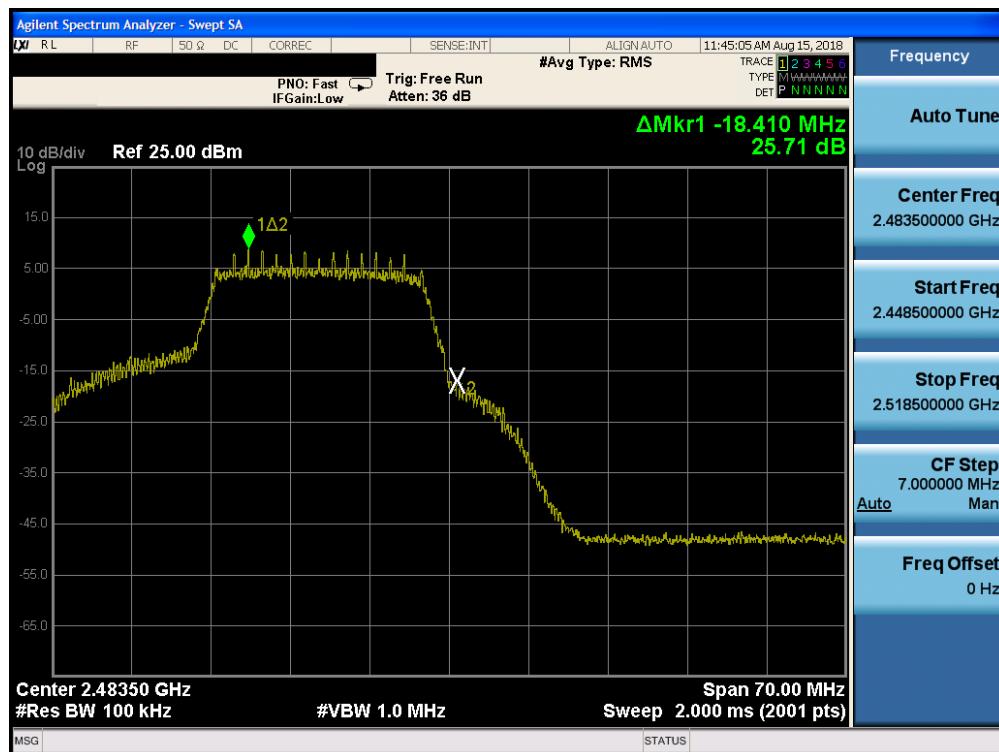


Plot 7-22. Band Edge Plot (802.11g – Ch. 13)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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Plot 7-23. Band Edge Plot (802.11n (2.4GHz) – Ch. 1)



Plot 7-24. Band Edge Plot (802.11n (2.4GHz) – Ch. 13)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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## 7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

### Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, and “n” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below.

***The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05.***

### Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3  
KDB 558074 D01 v05 – Section 8.5

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-5. Test Instrument & Measurement Setup**

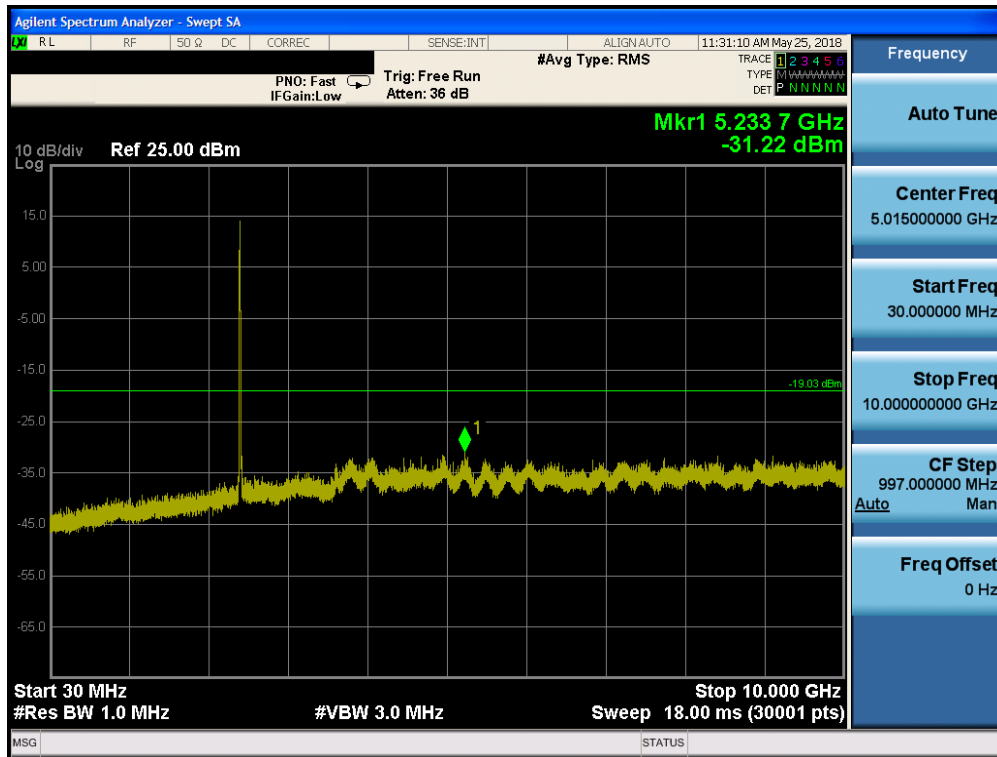
FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 32 of 61



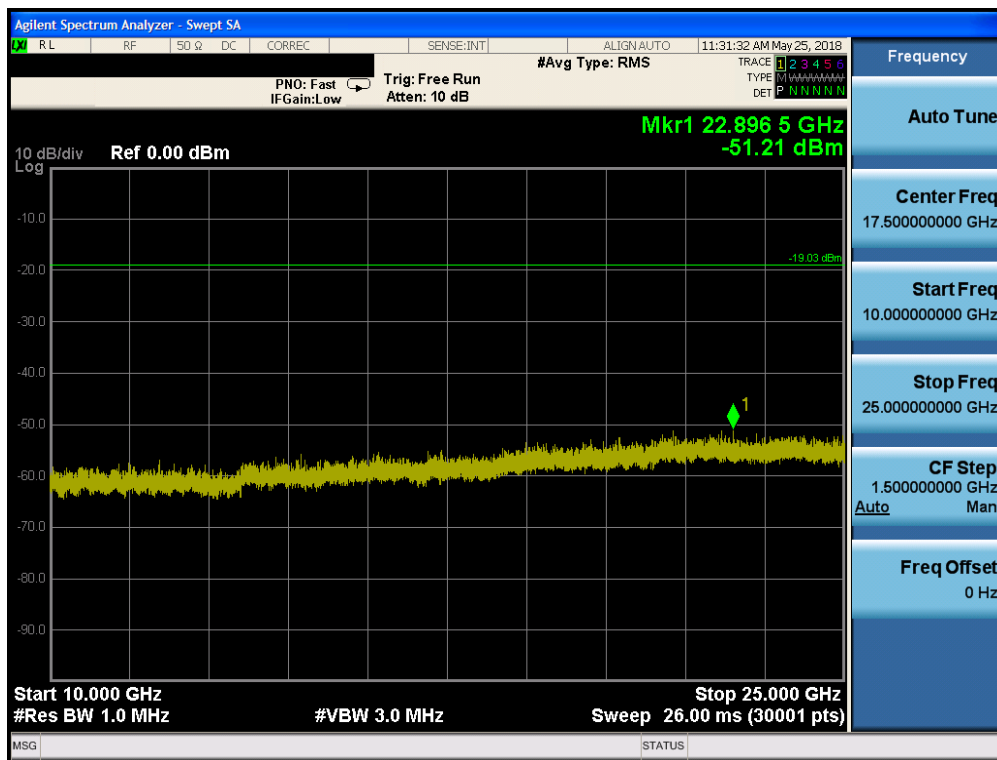
## Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

<b>FCC ID:</b> BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
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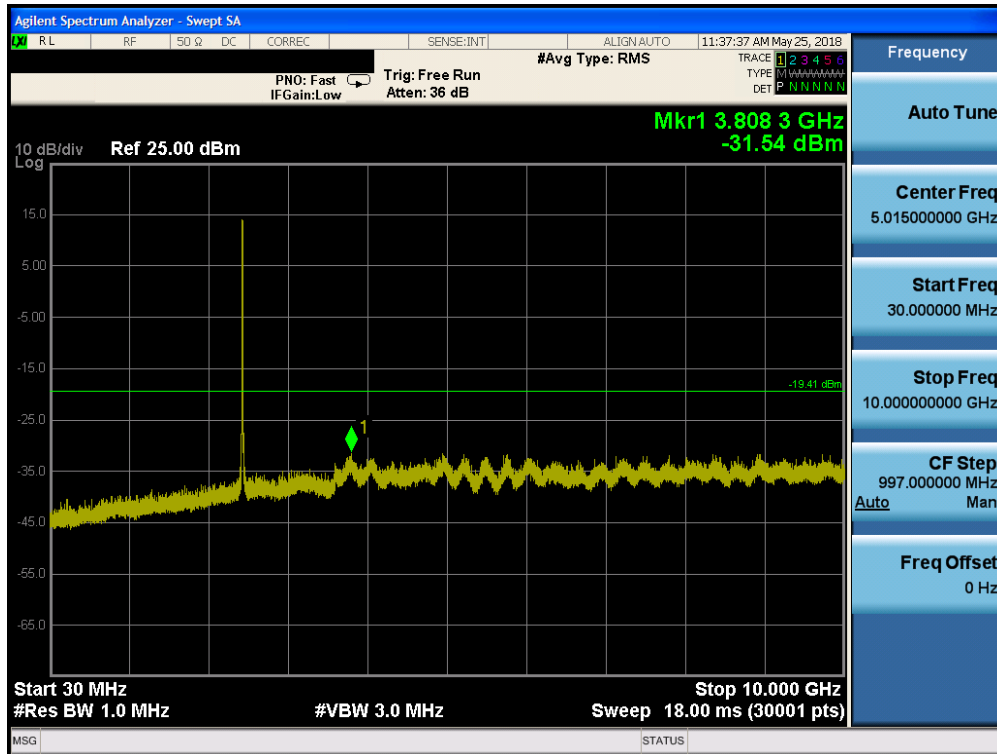


Plot 7-25. Conducted Spurious Plot (802.11b – Ch. 1)

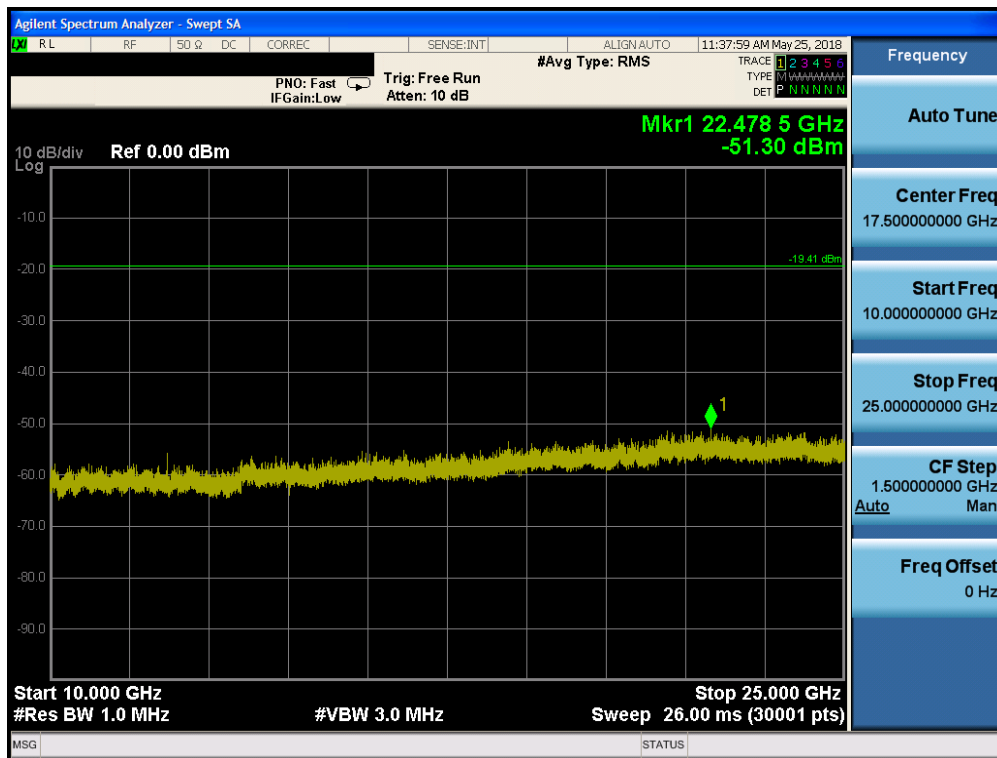


Plot 7-26. Conducted Spurious Plot (802.11b – Ch. 1)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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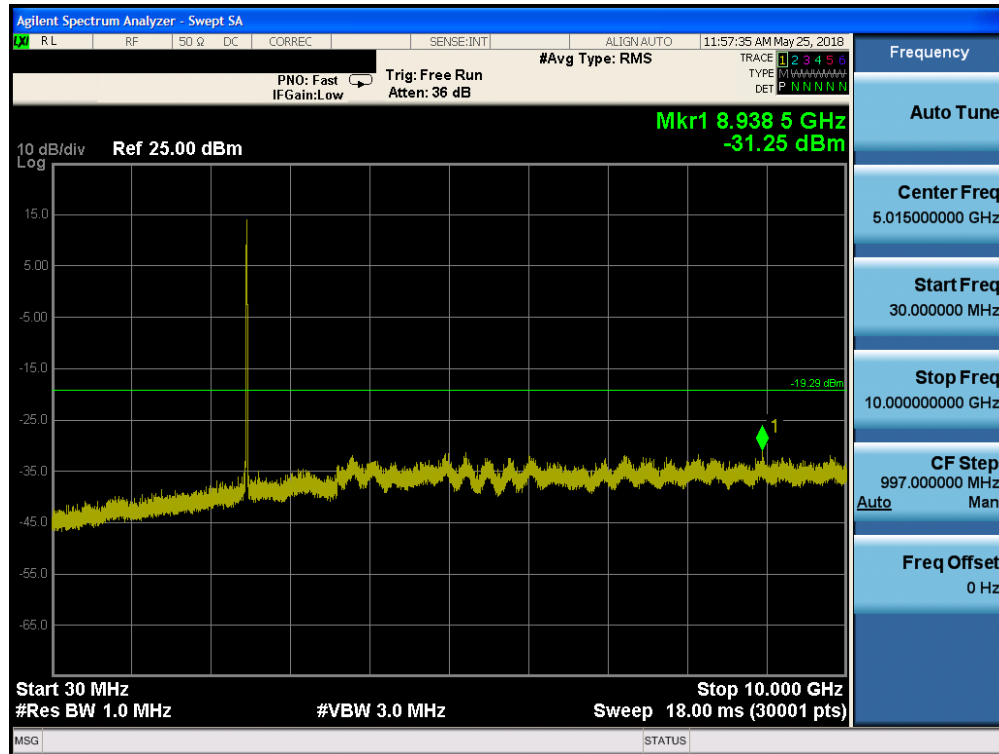


Plot 7-27. Conducted Spurious Plot (802.11b – Ch. 7)

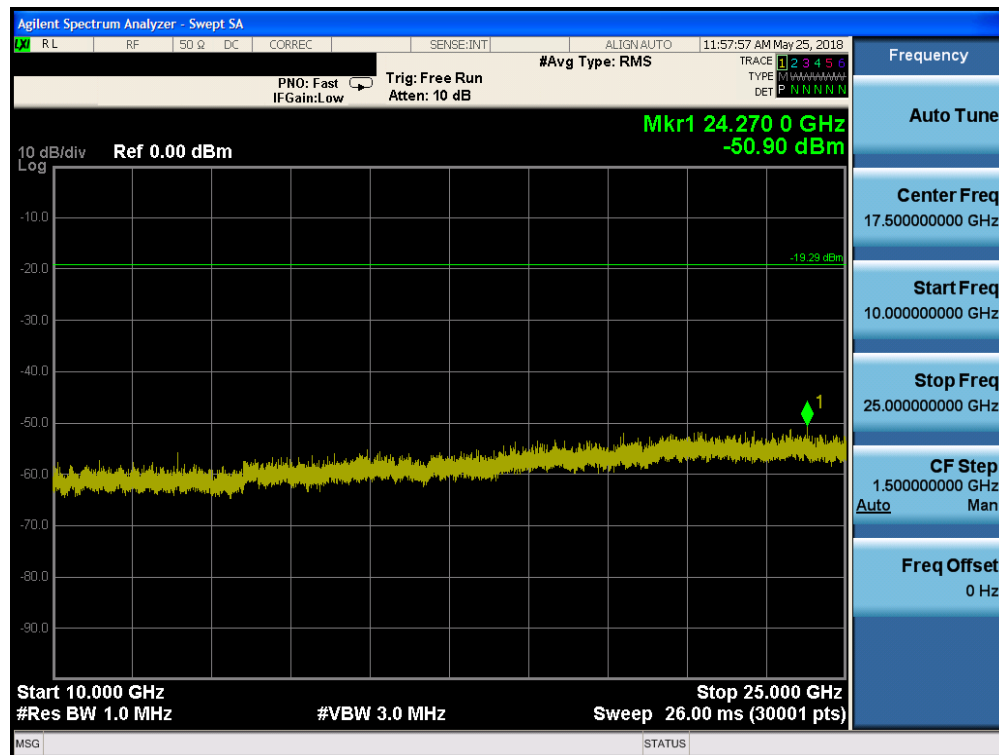


Plot 7-28. Conducted Spurious Plot (802.11b – Ch. 7)

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-29. Conducted Spurious Plot (802.11b – Ch. 13)



Plot 7-30. Conducted Spurious Plot (802.11b – Ch. 13)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 36 of 61

## 7.7 Radiated Spurious Emission Measurements – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-6 per Section 15.209 and RSS-Gen (8.9).***

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
Above 960.0 MHz	500	3

**Table 7-6. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3  
KDB 558074 D01 v05 – Section 8.6, 8.7

### Test Settings

#### Average Field Strength Measurements

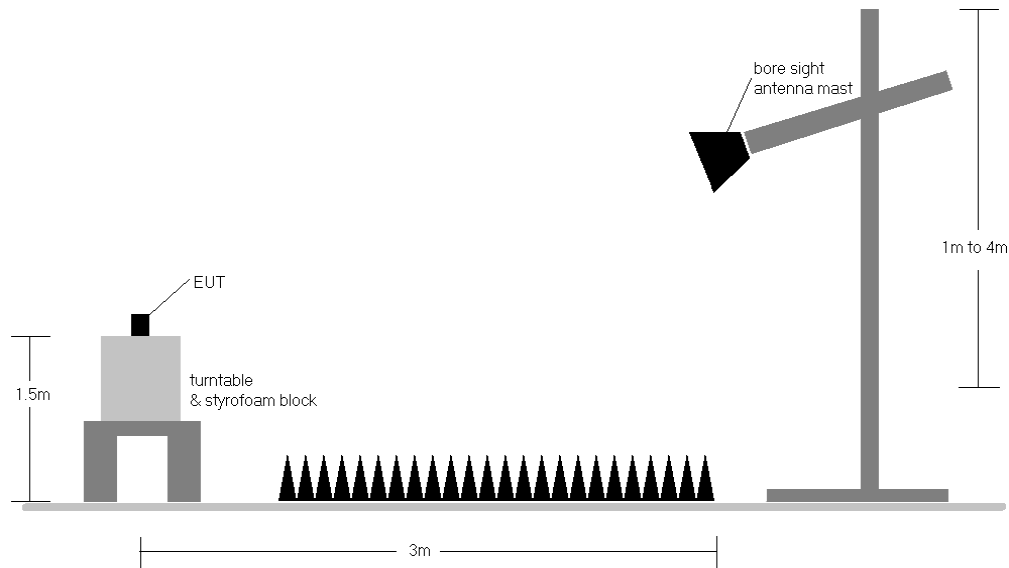
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-6. Test Instrument & Measurement Setup**

### **Test Notes**

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-6.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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## Sample Calculations

### Determining Spurious Emissions Levels

- Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

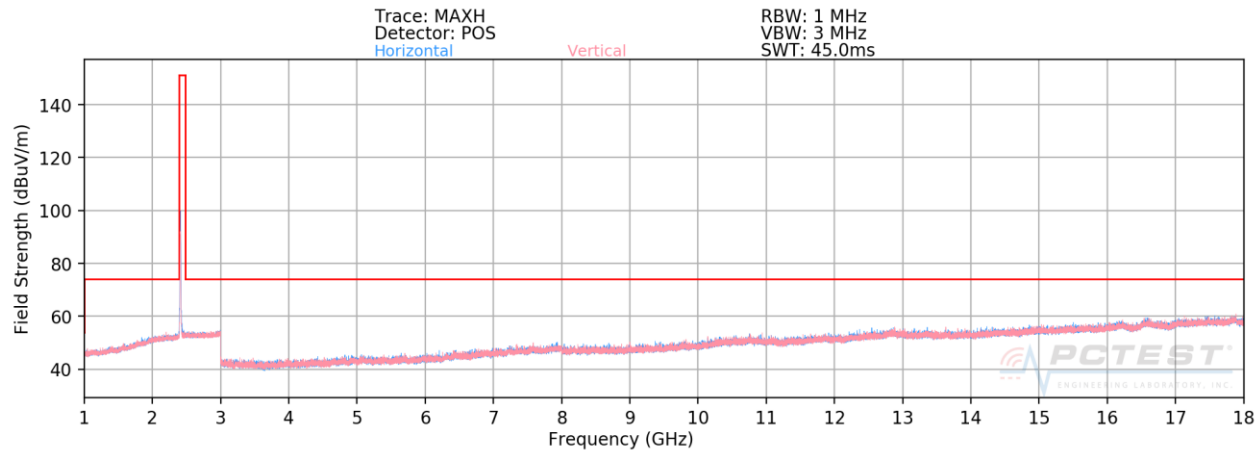
### Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.2 was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

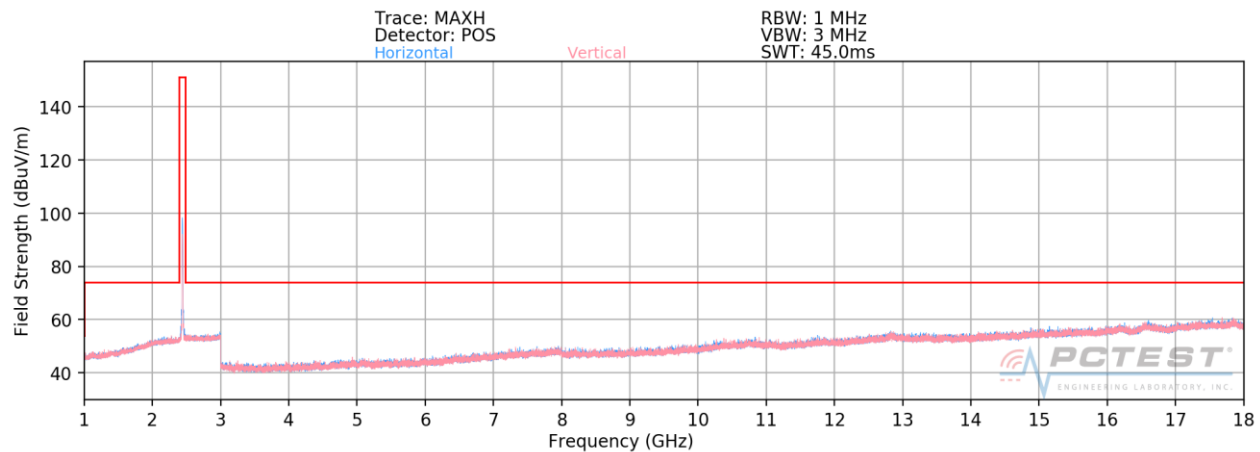
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## 7.7.1 Radiated Spurious Emission Measurements

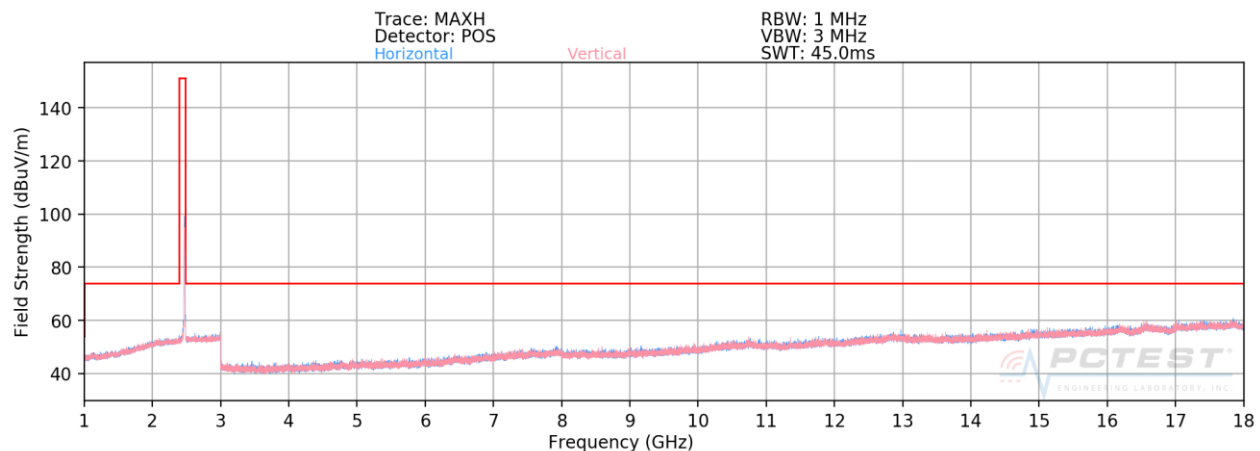
§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



**Plot 7-31. Radiated Spurious Plot above 1GHz (802.11b – Ch. 1)**



**Plot 7-32. Radiated Spurious Plot above 1GHz (802.11b – Ch. 7)**



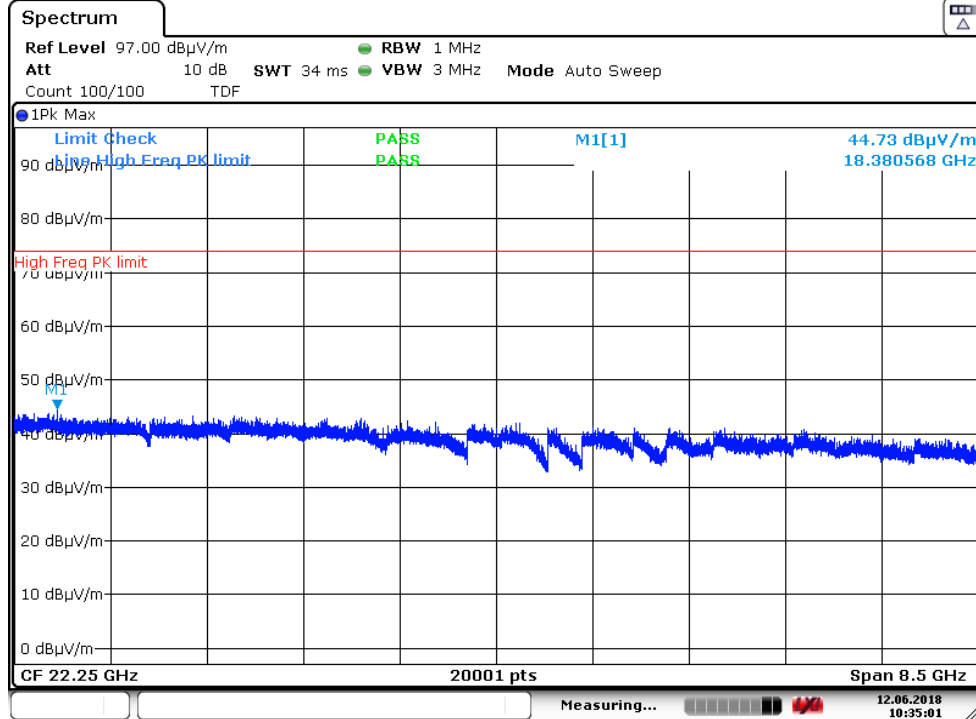
**Plot 7-33. Radiated Spurious Plot above 1GHz (802.11b – Ch. 13)**

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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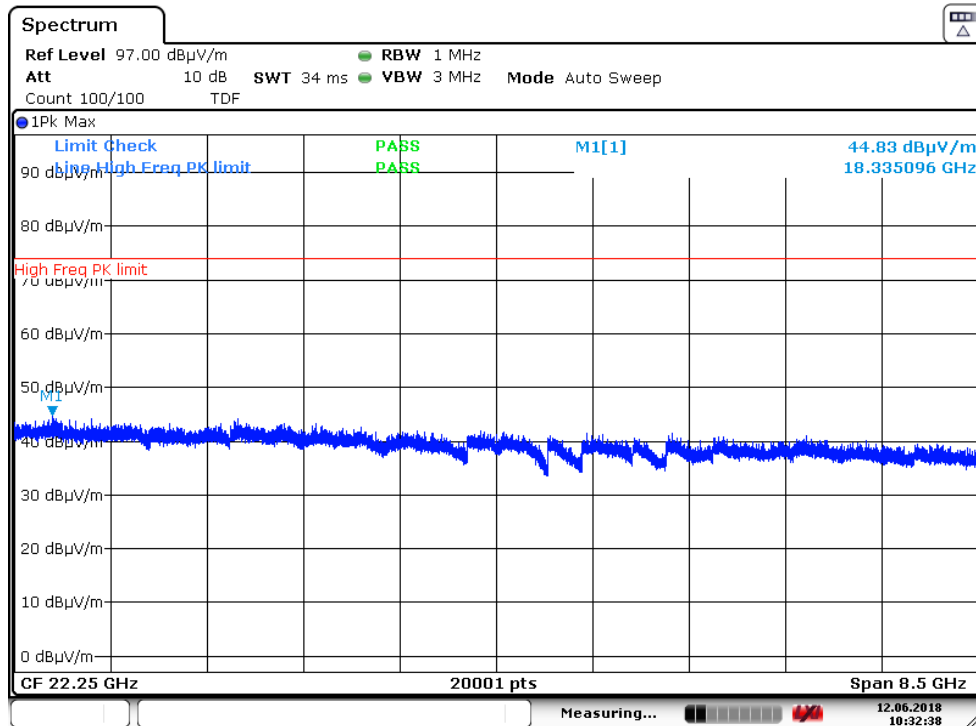


## Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-34. Radiated Spurious Plot above 18GHz (802.11b – Ch. 7, Ant. Pol. H)



Plot 7-35. Radiated Spurious Plot above 18GHz (802.11b – Ch. 7, Ant. Pol. V)

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## Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11b  
Worst Case Transfer Rate: 1 Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2412MHz  
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	305	161	-75.09	6.79	38.70	53.98	-15.28
4824.00	Peak	V	305	161	-66.97	6.79	46.82	73.98	-27.16
12060.00	Avg	V	191	208	-82.54	17.97	42.43	53.98	-11.55
12060.00	Peak	V	191	208	-71.53	17.97	53.44	73.98	-20.54

**Table 7-7. Radiated Measurements**

Worst Case Mode: 802.11b  
Worst Case Transfer Rate: 1 Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2442MHz  
Channel: 07

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4884.00	Avg	V	126	327	-78.13	6.82	35.69	53.98	-18.29
4884.00	Peak	V	126	327	-67.72	6.82	46.10	73.98	-27.88
7326.00	Avg	V	277	277	-77.81	11.12	40.31	53.98	-13.67
7326.00	Peak	V	277	277	-68.03	11.12	50.09	73.98	-23.89
12210.00	Avg	V	-	-	-82.75	18.38	42.63	53.98	-11.35
12210.00	Peak	V	-	-	-72.13	18.38	53.25	73.98	-20.73

**Table 7-8. Radiated Measurements**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4944.00	Avg	V	125	245	-79.71	7.46	34.75	53.98	-19.23
4944.00	Peak	V	125	245	-68.62	7.46	45.84	73.98	-28.14
7416.00	Avg	V	102	6	-78.22	11.84	40.62	53.98	-13.36
7416.00	Peak	V	102	6	-68.42	11.84	50.42	73.98	-23.56
12360.00	Avg	V	-	-	-82.55	18.23	42.68	53.98	-11.30
12360.00	Peak	V	-	-	-71.28	18.23	53.95	73.98	-20.03

**Table 7-9. Radiated Measurements**

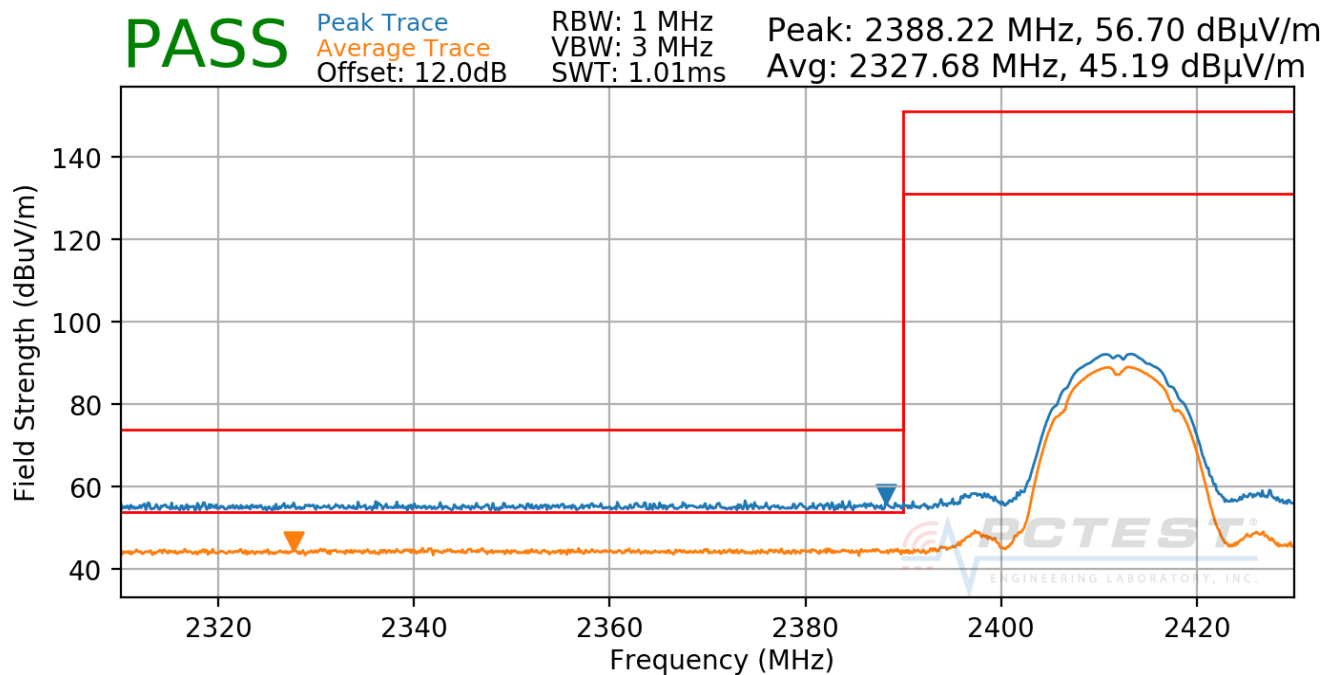
FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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## 7.7.2 Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

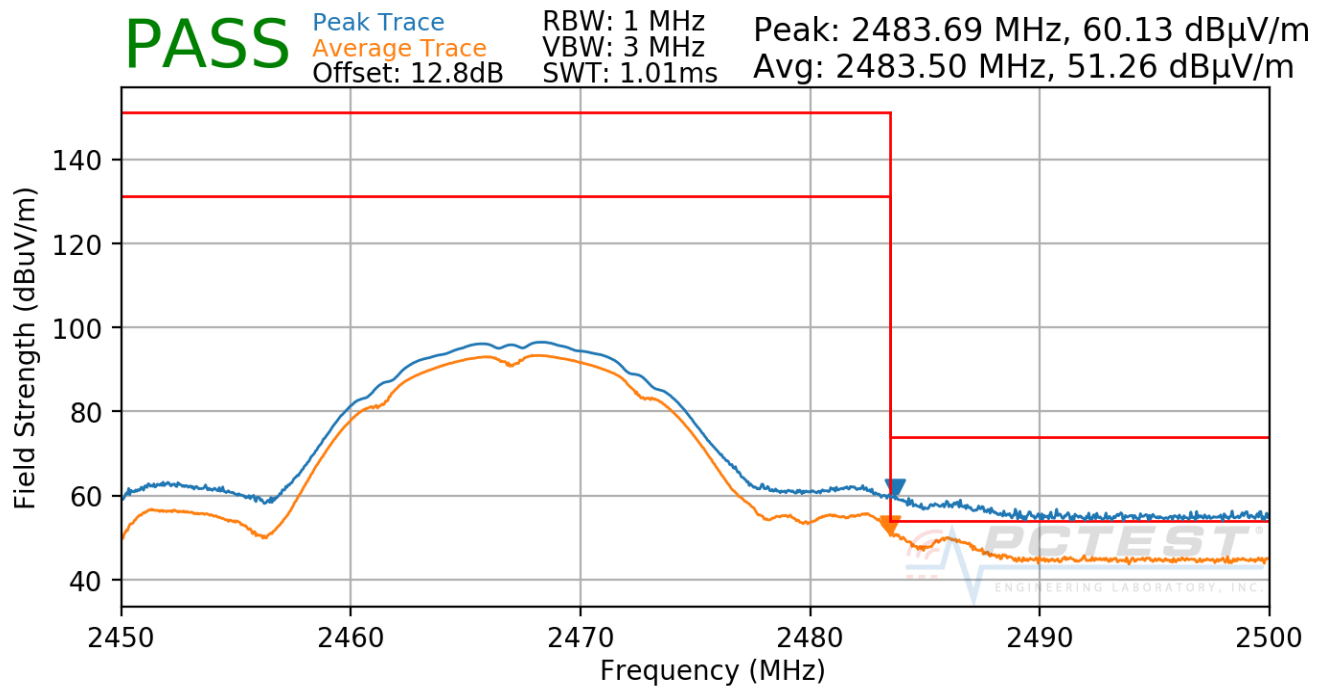
Worst Case Mode:	802.11b
Worst Case Transfer Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-36. Radiated Restricted Lower Band Edge Measurement (Average & Peak)

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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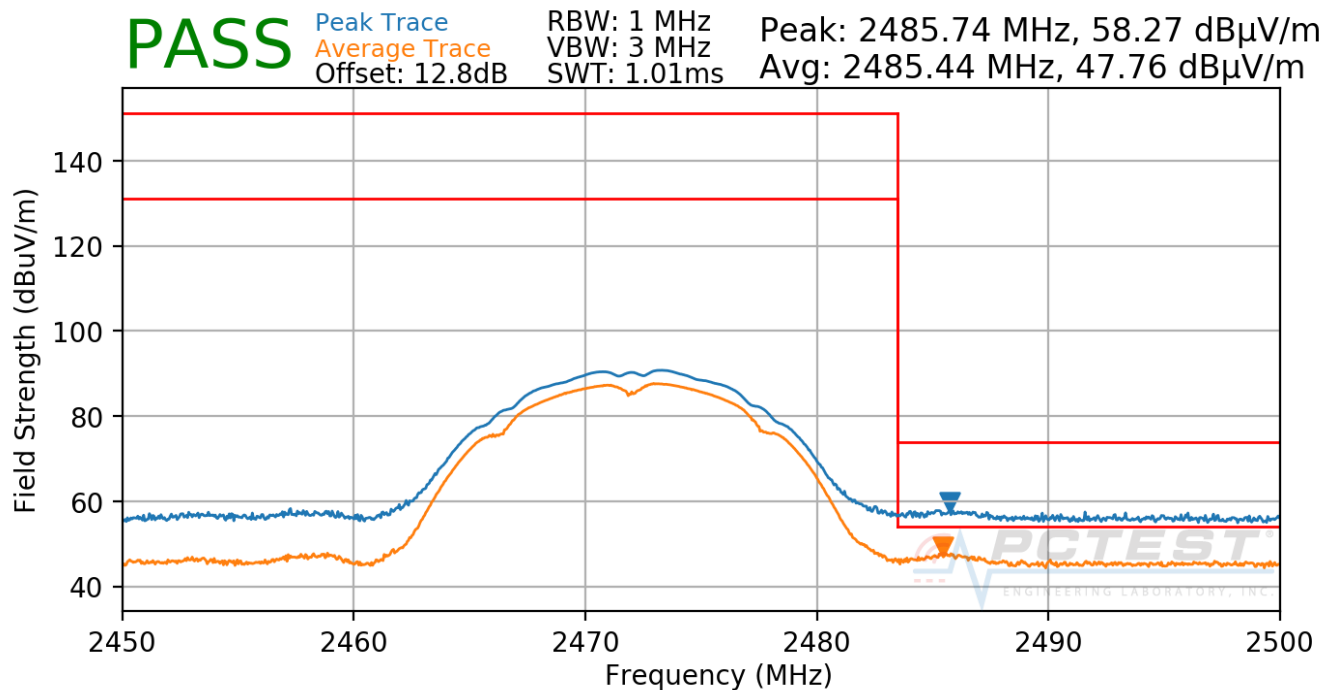
Worst Case Mode: 802.11b  
Worst Case Transfer Rate: 1Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2467MHz  
Channel: 12



**Plot 7-37. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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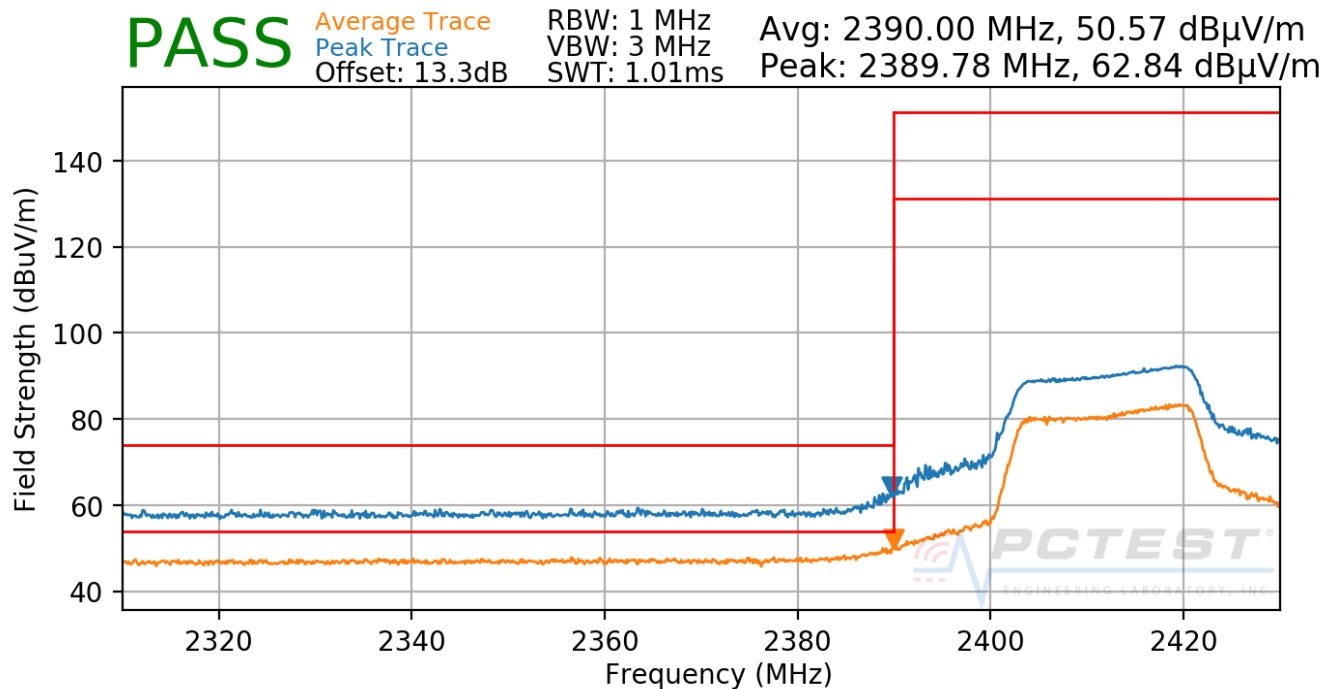
Worst Case Mode: 802.11b  
Worst Case Transfer Rate: 1Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2472MHz  
Channel: 13



**Plot 7-38. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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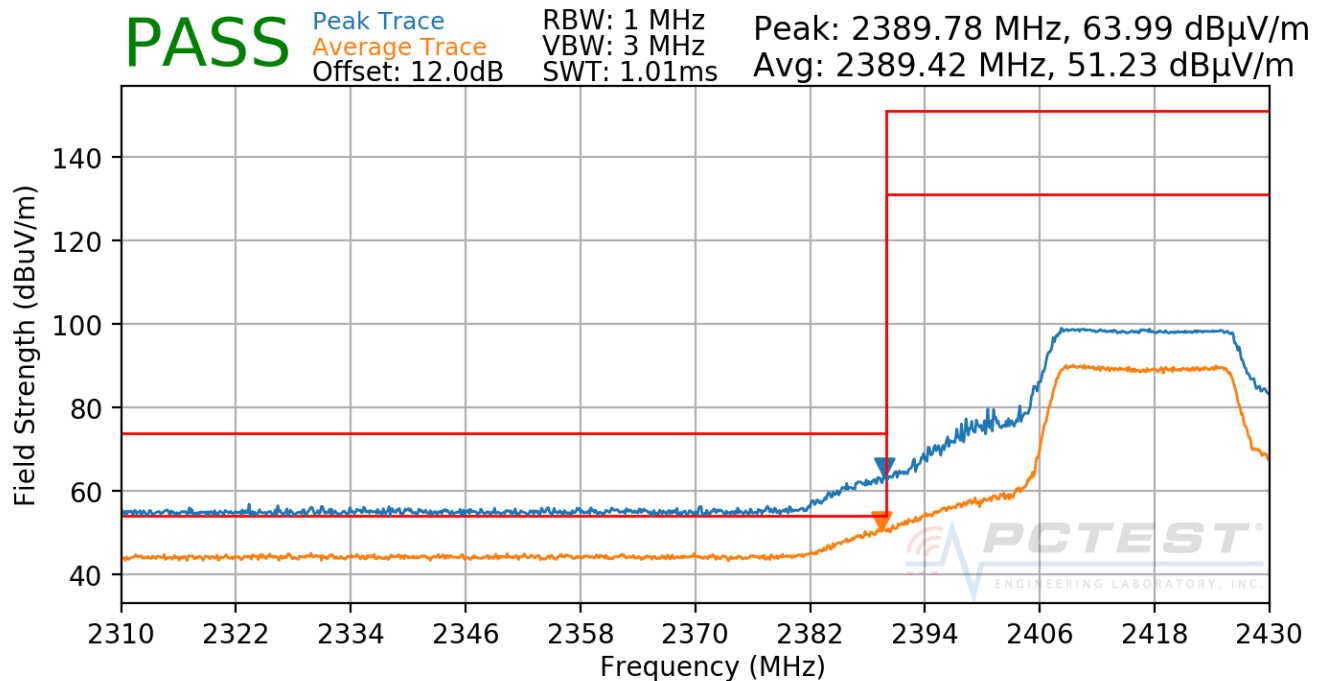
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 2412MHz  
Channel: 1



**Plot 7-39. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 2417MHz  
Channel: 2

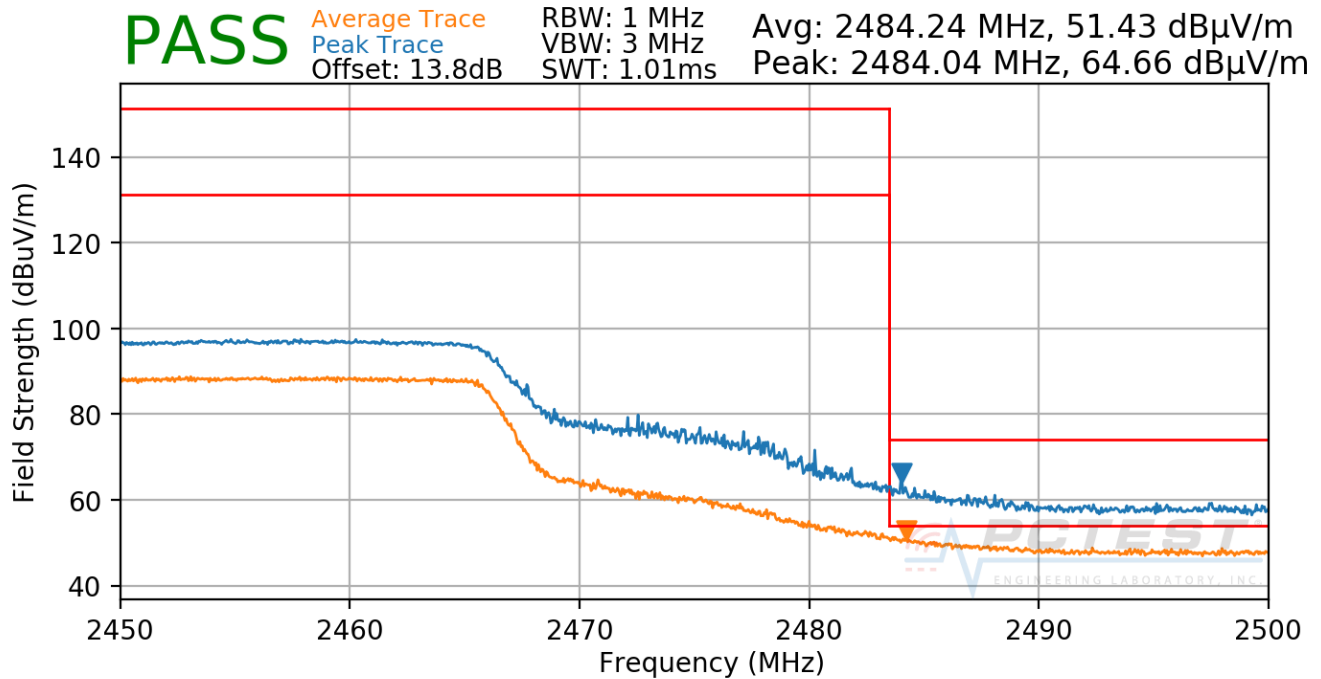


**Plot 7-40. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 48 of 61



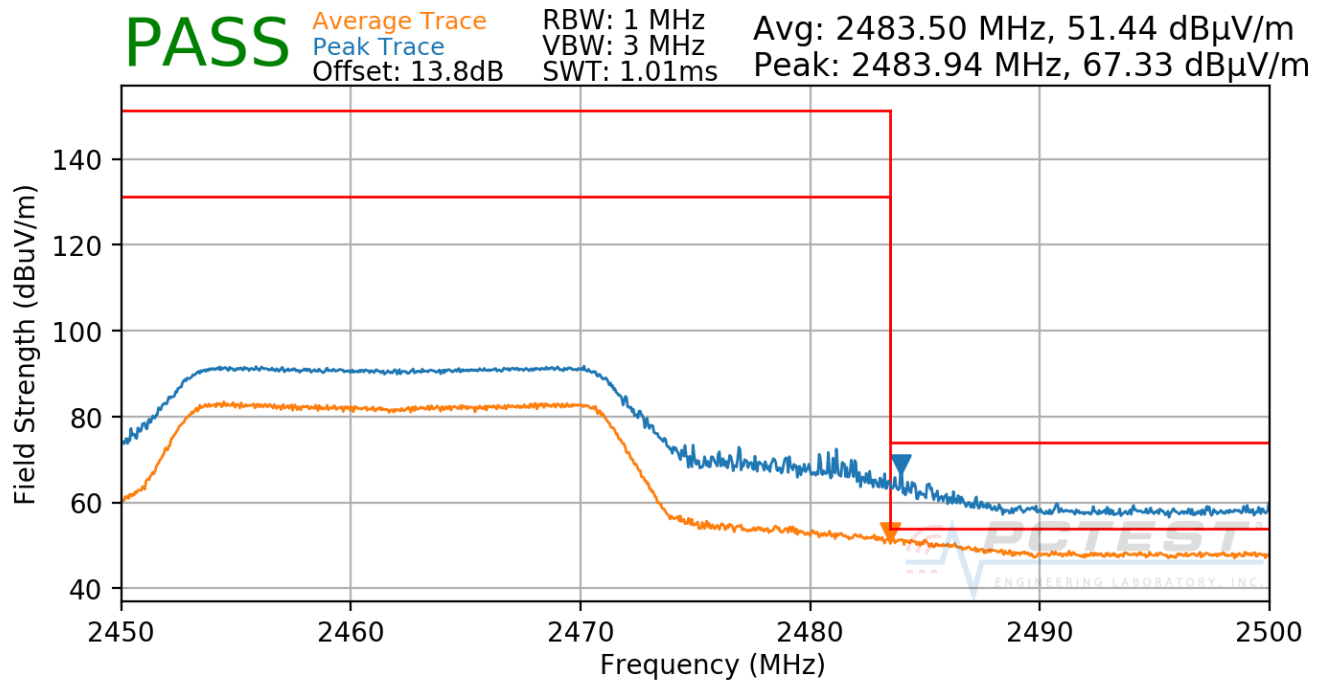
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 2457MHz  
Channel: 10



**Plot 7-41. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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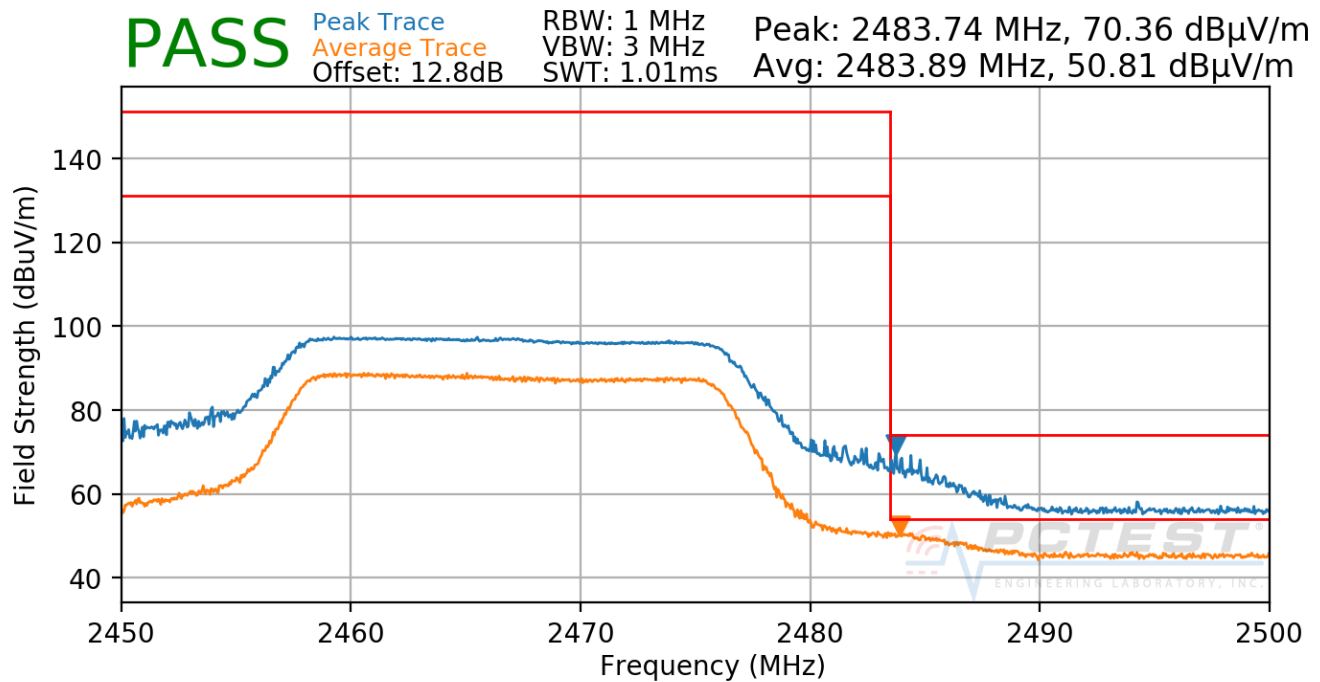
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 2462MHz  
Channel: 11



**Plot 7-42. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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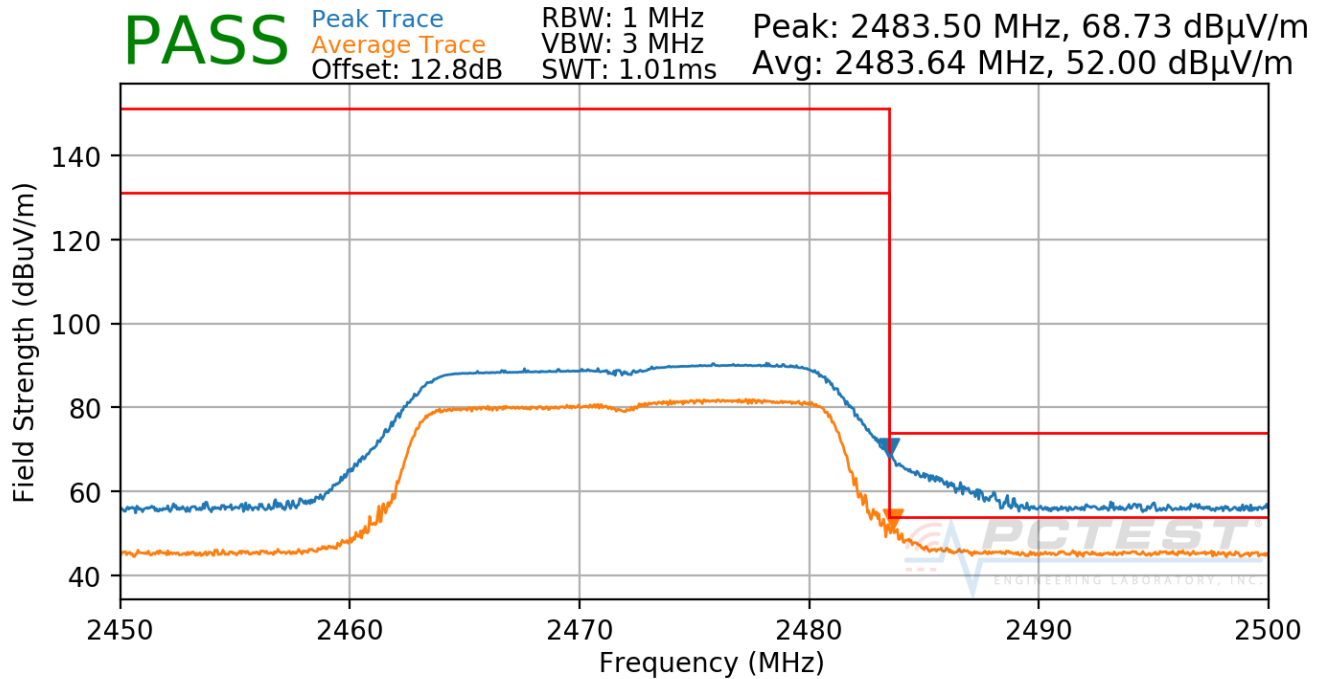
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 2467MHz  
Channel: 12



**Plot 7-43. Radiated Restricted Lower Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 2472MHz  
Channel: 13



**Plot 7-44. Radiated Restricted Upper Band Edge Measurement (Average & Peak)**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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## 7.8 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-10 per Section 15.209 and RSS-Gen (8.9).***

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 7-10. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

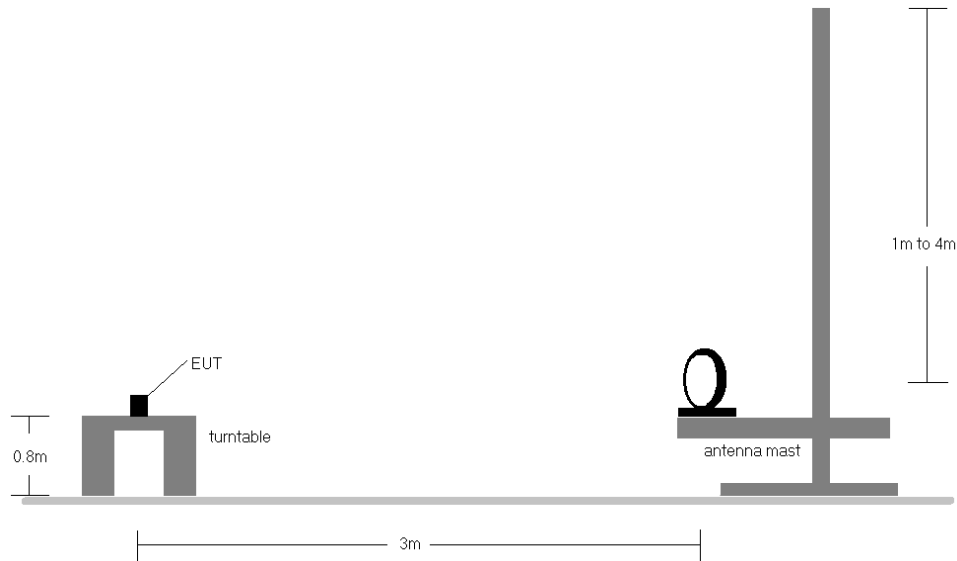
#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

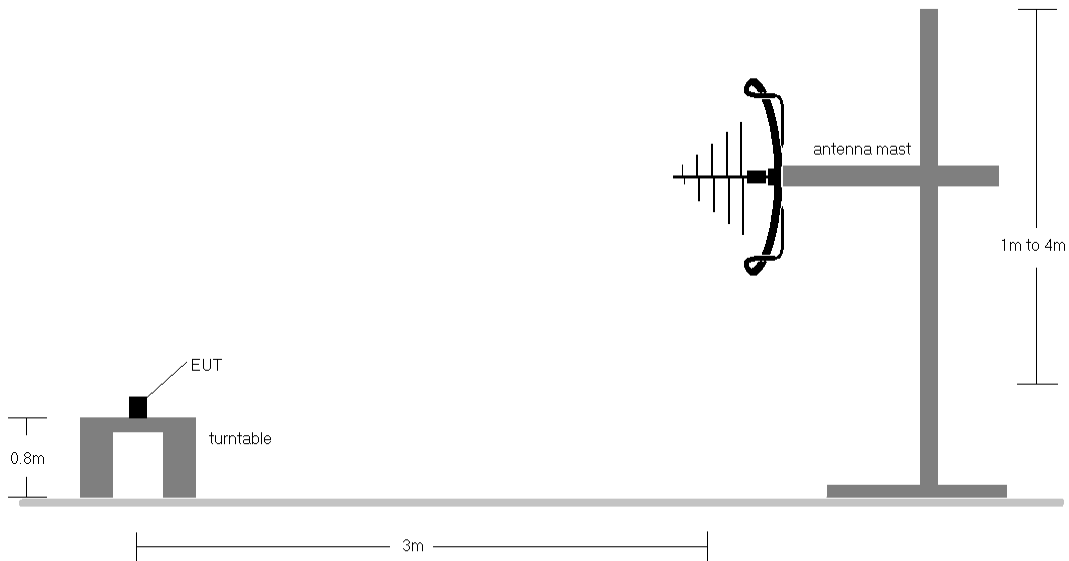
FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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## Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-7. Radiated Test Setup < 30Mhz**



**Figure 7-8. Radiated Test Setup < 1GHz**

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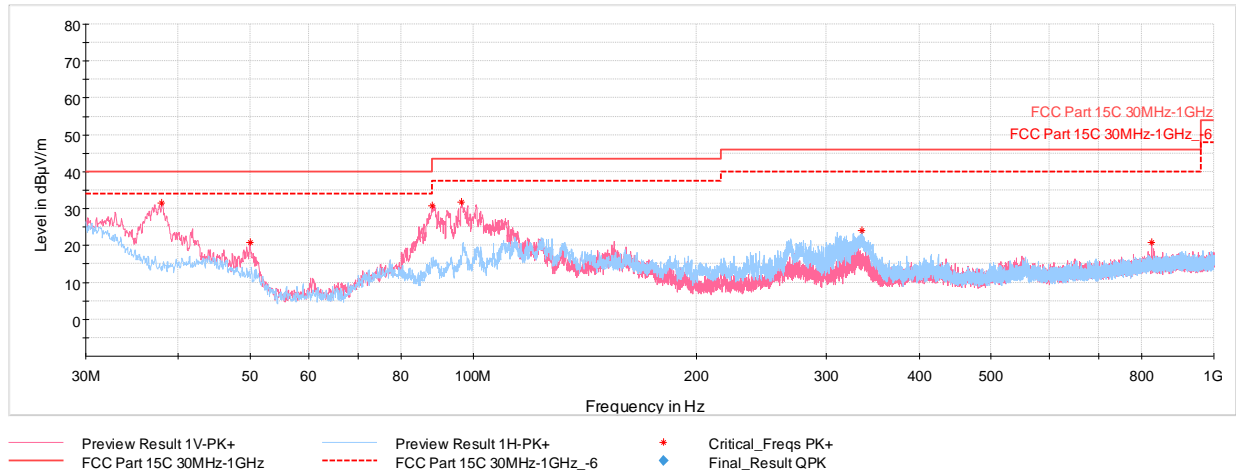
## Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-10.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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## Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-45. Radiated Spurious Plot below 1GHz (802.11b – Ch. 7, Pol. H & V, with WCP + Laptop)**

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
38.00	Max Peak	V	100	44	-56.42	-19.00	31.58	40.00	-8.42
49.98	Max Peak	V	100	294	-59.39	-26.83	20.78	40.00	-19.22
88.01	Max Peak	V	100	126	-52.48	-23.63	30.89	43.52	-12.63
96.49	Max Peak	V	100	112	-51.50	-23.71	31.79	43.52	-11.73
334.73	Max Peak	H	100	64	-62.07	-20.80	24.13	46.02	-21.89
824.92	Max Peak	V	100	304	-74.23	-11.95	20.82	46.02	-25.20

**Table 7-11. Radiated Spurious Emissions below 1GHz (802.11b – Ch. 7, Pol. H & V, with WCP + Laptop)**

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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## 7.9 Line-Conducted Test Data

§15.207; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

**All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).**

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-12. Conducted Limits

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

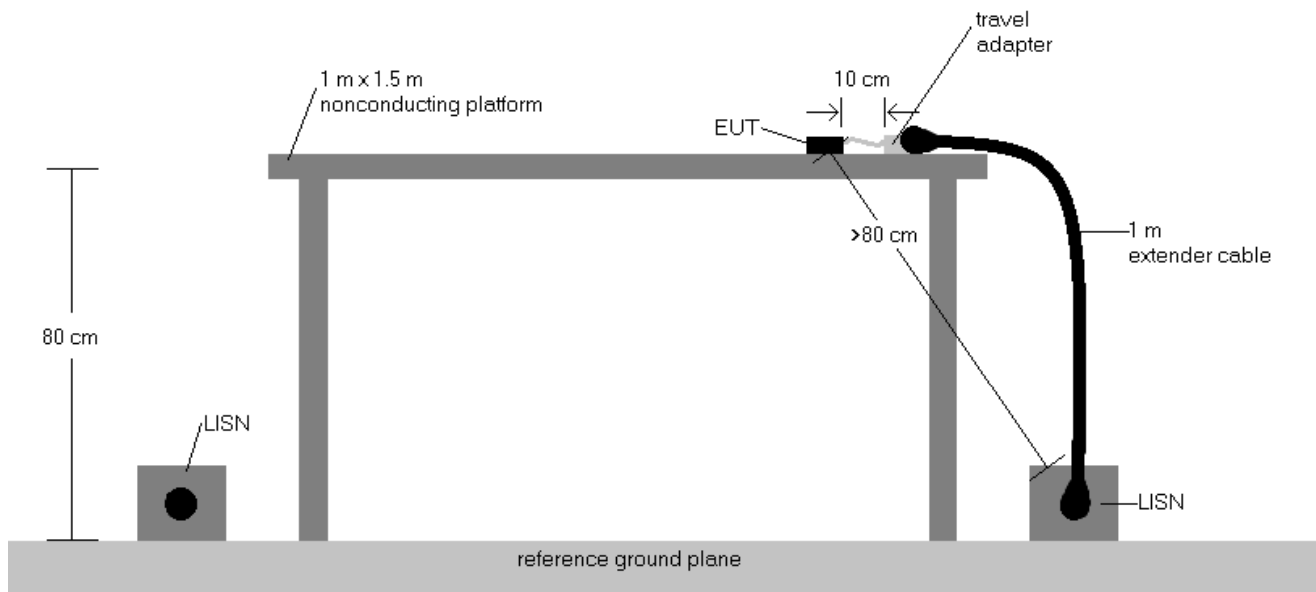
#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

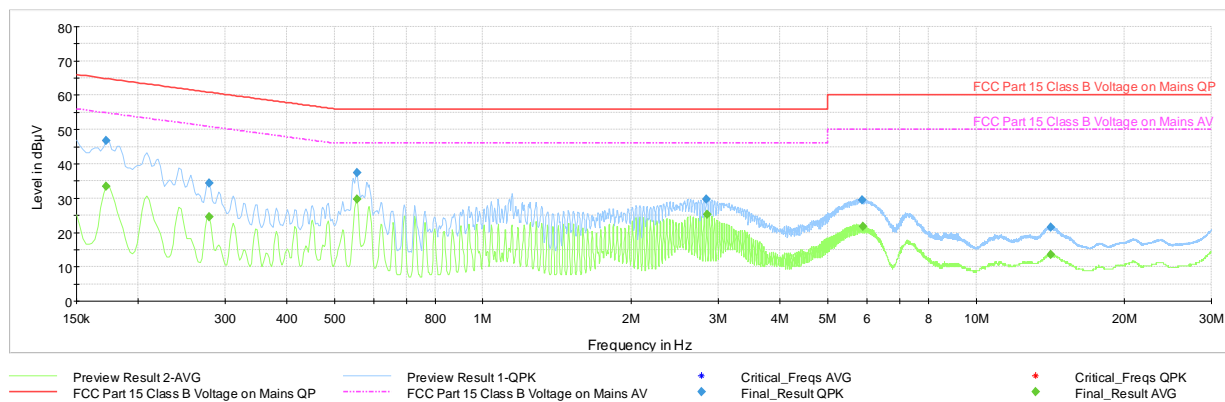


**Figure 7-9. Test Instrument & Measurement Setup**

## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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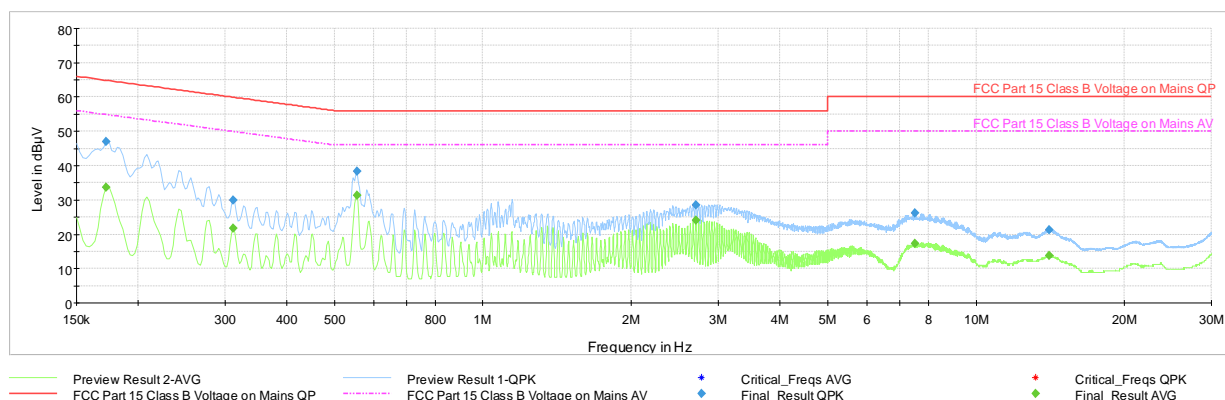


**Plot 7-46. Line Conducted Plot with 802.11b (L1, with WCP + Laptop)**

Frequency MHz	Process State	QuasiPeak dBμV	Average dBμV	Limit dBμV	Margin dB	Bandwidth kHz	Line	PE
0.172500	FINAL	—	33.41	54.84	21.43	9.000	L1	GND
0.172500	FINAL	46.77	—	64.84	18.07	9.000	L1	GND
0.278250	FINAL	—	24.51	50.87	26.36	9.000	L1	GND
0.278250	FINAL	34.40	—	60.87	26.47	9.000	L1	GND
0.555000	FINAL	—	29.64	46.00	16.36	9.000	L1	GND
0.555000	FINAL	37.44	—	56.00	18.56	9.000	L1	GND
2.838750	FINAL	29.65	—	56.00	26.35	9.000	L1	GND
2.843250	FINAL	—	25.17	46.00	20.83	9.000	L1	GND
5.883000	FINAL	29.49	—	60.00	30.51	9.000	L1	GND
5.889750	FINAL	—	21.86	50.00	28.14	9.000	L1	GND
14.154000	FINAL	—	13.68	50.00	36.32	9.000	L1	GND
14.154000	FINAL	21.62	—	60.00	38.38	9.000	L1	GND

**Table 7-13. Line Conducted Plot with 802.11b (L1, with WCP + Laptop)**

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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**Plot 7-47. Line Conducted Plot with 802.11b (N, with WCP + Laptop)**

Frequency MHz	Process State	QuasiPeak dBμV	Average dBμV	Limit dBμV	Margin dB	Bandwidth kHz	Line	PE
0.172500	FINAL	—	33.70	54.84	21.14	9.000	N	GND
0.172500	FINAL	47.03	—	64.84	17.81	9.000	N	GND
0.312000	FINAL	—	21.68	49.92	28.23	9.000	N	GND
0.312000	FINAL	30.03	—	59.92	29.89	9.000	N	GND
0.555000	FINAL	—	31.41	46.00	14.59	9.000	N	GND
0.555000	FINAL	38.28	—	56.00	17.72	9.000	N	GND
2.701500	FINAL	28.62	—	56.00	27.38	9.000	N	GND
2.703750	FINAL	—	24.18	46.00	21.82	9.000	N	GND
7.507500	FINAL	—	17.37	50.00	32.63	9.000	N	GND
7.509750	FINAL	26.12	—	60.00	33.88	9.000	N	GND
14.084250	FINAL	—	13.70	50.00	36.30	9.000	N	GND
14.084250	FINAL	21.33	—	60.00	38.67	9.000	N	GND

**Table 7-14. Line Conducted Plot with 802.11b (N, with WCP + Laptop)**

FCC ID: BCG-A2008	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 60 of 61

## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2008** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCG-A2008	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806040007-05.BCG	Test Dates: 5/25/2018 - 8/18/2018	EUT Type: Watch	Page 61 of 61