

# **Emissions Test Report**

**EUT Name:** eero **Model No.:** J010001

CFR 47 Part 15.247: 2019 and RSS 247: 2017

Prepared for:

eero LLC

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Prepared by:

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EUT: eero Model: J010001 EMC / Rev 1.2

# **Revisions**

Revision No.	Date MM/DD/YYYY	Reason for Change	Author
0	6/21/19	Original Document	JB
1	8/13/19	Customer Details added	JB
1.1	8/13/19	Antenna beamforming information updated	OC
1.2	9/9/19	TCB Review	OC

Note: Latest revision report will replace all previous reports.

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IC ID: 20631-231770

FCC ID: 2AEM4-231770

# **Statement of Compliance**

Manufacturer: eero LLC

> 660 3rd Street, 4th floor San Francisco, CA, 94107

Requester / Applicant: eero LLC

*Name of Equipment:* eero Model No. J010001

*Type of Equipment:* Intentional Radiator

Application of Regulations: CFR 47 Part 15.247: 2019 and RSS 247: 2017

Test Dates: May 6th, 2019 to May 22nd, 2019

#### Guidance Documents:

Emissions: ANSI C63.10-2013, KDB 558074 D01 DTS Measurement Guidance v05r02, KDB

662911 D01 Multiple Transmitter Output v02r01

#### Test Methods:

Emissions: ANSI C63.10-2013, KDB 558074 D01 DTS Measurement Guidance v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01

The electromagnetic compatibility test and documented data described in this report has been performed and recorded by TUV Rheinland, in accordance with the standards and procedures listed herein. As the responsible authorized agent of the EMC laboratory, I hereby declare that the equipment described above has been shown to be compliant with the EMC requirements of the stated regulations and standards based on these results. If any special accessories and/or modifications were required for compliance, they are listed in the Executive Summary of this report.

This report must not be used to claim product endorsement by A2LA or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written authorization of TUV Rheinland of North America.

James Borrott

Test Engineer Date September 9, 2019 **A2LA Signatory** 

Date September 9, 2019









Industry Industrie Canada

**Testing Cert #3331.02** 

**US1131** 

2932D

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# 1 Executive Summary

#### 1.1 Scope

This report is intended to document the status of conformance with the requirements of the CFR 47 Part 15.247: 2019 and RSS 247: 2017 based on the results of testing performed on May 6th, 2019 to May 22nd, 2019 on the eero Model J010001 manufactured by eero LLC. This report only applies to the specific samples tested under the stated test conditions. It is the responsibility of the manufacturer to assure that additional production units of this model are manufactured with identical or EMI equivalent electrical and mechanical components. This report is further intended to document changes and modifications to the EUT throughout its life cycle. All documentation will be included as a supplement.

## 1.2 Purpose

Testing was performed to evaluate the EMC performance of the EUT in accordance with the applicable requirements, procedures, and criteria defined in the application of regulations and application of standards listed in this report. The 2412 MHz to 2462 MHz frequency band for WiFi are covered in this document.

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## 1.3 Summary of Test Results

**Table 1:** Summary of Test Results

Test	Test Method ANSI C 63.10 & (Measured)  C63.4  Worse Case (Measured)		Result
Maximum Output Power	CFR47 15.247 (b), RSS 247 Sect. 5.4 (d)	28.13* dBm RMS (802.11b 1Mbps)	Complied
DTS Bandwidth (6dB)	CFR47 15.247 (a)(2), RSS 247 Sect. 5.2 (a)	8.16 MHz (802.11b 1Mbps Channel 11, Chain 0)	Complied
Peak Power Spectral Density	CFR47 15.247 (e), RSS 247 Sect. 5.2 (b)	5.21 dBm/3KHz (802.11b 1Mbps Channel 6)	Complied
Out of Band Emissions: Non- Restricted	CFR47 15.247 (d), RSS 247 Sect.5.5	-30.79 dBc @ 2399.58MHz (802.11g NoHT 6MBbps Channel 1, Chain 0)	Complied
Out of Band Emissions: Restricted	CFR47 15.247 (d), RSS 247 Sect.5.5	0.09 dB Margin @ 2483.62MHz, Average (802.11g 6Mbps Channel 11)	Complied
Transmitter Spurious Emissions	CFR47 15.247 (d), RSS 247 Sect.5.5	6.79 dB margin @ 26210.42MHz, Average (802.11b Mode 1Mbps Channel 11)	Complied
AC Power Conducted Emission	CFR47 15.207, RSS-GEN Sect.8.8	Class B	Complied

Note 1: This test report covers 2400 MHz to 2483.5 MHz band. \*= summed power.

Note 2: Class B limits were applied where applicable.

## 1.4 Special Accessories

No special accessories were necessary in order to achieve compliance.

# 1.5 Equipment Modifications

None

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# 2 Laboratory Information

## 2.1 Accreditations & Endorsements

#### 2.1.1 US Federal Communications Commission



TUV Rheinland of North America EMC test facilities located at 1279 Quarry Lane, Ste. A, Pleasanton, CA, 94566, and 5015 Brandin Ct, Fremont, CA 94538, are recognized by the Commission for performing testing services for the general public

on a fee basis. These laboratory test facilities have been fully described in reports submitted to and accepted by the FCC (Registration No. US1131). The laboratory Scopes of Accreditation include Title 47 CFR Parts 15, 18 and 90. The accreditations are updated every three years.

#### 2.1.2 NIST / A2LA



TUV Rheinland of North America is accredited by the National Voluntary Laboratory Accreditation Program, which is administered under the auspices of the National Institute of Standards and Technology. The laboratory has been assessed and accredited in accordance with ISO Guide 17025:2005. The scope of laboratory

accreditation includes emission and immunity testing. The accreditation is updated annually.

#### 2.1.3 Canada – Industry Canada







The Pleasanton 5-meter Semi-Anechoic Chamber, Registration No. 2932M-1, has been accepted by Industry Canada to perform testing to 3

and 5 meters based on the test procedures described in ANSI C63.4-2014. The Fremont 10-meter Semi-Anechoic Chamber, Registration No. 2932D-1, has been accepted by Industry Canada to perform testing to 3 and 10 meters based on the test procedures described in ANSI C63.4-2014.

## 2.1.4 Japan – VCCI



The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) is a group that consists of Information Technology Equipment (ITE) manufacturers and EMC test laboratories. The purpose of the Council is to take voluntary control measures against electromagnetic interference from

Information Technology Equipment, and thereby contribute to the development of a socially beneficial and responsible state of affairs in the realm of Information Technology Equipment in Japan. TUV Rheinland of North America EMC test facilities located at 1279 Quarry Lane, Ste. A, Pleasanton, CA, 94566, and 5015 Brandin Ct, Fremont, CA 94538, have been assessed and approved in accordance with the Regulations for Voluntary Control Measures.

VCCI Registration No. for Pleasanton: A-0268 VCCI Registration No. for Fremont: A-0268

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# 2.1.5 Acceptance by Mutual Recognition Arrangement



The United States has an established agreement with specific countries under the Asia Pacific Laboratory Accreditation Corporation (APLAC) Mutual Recognition Arrangement. Under this agreement, all TUV Rheinland at 1279 Quarry Ln, Pleasanton, CA 94566 test results and test reports within the scope of the laboratory NIST / A2LA accreditation will be accepted by each member

country.

#### 2.2 Test Facilities

Test facilities are located at 5015 Brandin Ct, Fremont, California, 94538, USA and 1279 Quarry Lane, Pleasanton, California 94566, USA (Fremont is the Pleasanton Annex).

#### 2.2.1 Emission Test Facility

The Semi-Anechoic Chambers and AC Line Conducted measurement facilities used to collect radiated and conducted emissions data have been constructed in accordance with ANSI C63.7:1992. The Fremont 10 meter semi-anechoic chamber has been measured in accordance with and verified to comply with the theoretical volumetric normalized site attenuation of ANSI C63.4:2014 and SVSWR requirements of CISPR 16-1-4 Consol. Ed. 3.0 (2010-04), at test distances of 3 and 10 meters. This site has been described in reports dated November 1st, 2006, submitted to the FCC, and accepted by letter dated November 28, 2006. The site is listed with the FCC and accredited by A2LA (Testing Certificate #3331.02). The Pleasanton 5 meter semi-anechoic chamber has been verified to comply with the theoretical volumetric normalized site attenuation of ANSI C63.4:2009 and SVSWR requirements of CISPR 16-1-4 Consol. Ed. 3.0 (2010-04) at a test distance of 3 meters. This site has been described in reports dated November 1st, 2006, submitted to the FCC, and accepted by letter dated November 28, 2006. The site is listed with the FCC and accredited by A2LA (Testing Certificate #3331.02).

## 2.3 Measurement Uncertainty

Two types of measurement uncertainty are expressed in this report, per *ISO Guide To The Expression Of Uncertainty In Measurement*, 1<sup>st</sup> Edition, 1995.

The Combined Standard Uncertainty is the standard uncertainty of the result of a measurement when that result is obtained from the values of a number of other quantities; it is equal to the positive square root of the sum of the variances or co-variances of these other quantities, weighted according to how the measurement result varies with changes in these quantities. The term *standard uncertainty* is the result of a measurement expressed as a standard deviation.

The Expanded Uncertainty defines an interval about the result of a measurement that may be expected to encompass a large fraction of the distribution of values that could reasonably be attributed to the measurement and the fraction may be viewed as the coverage probability or level of confidence of the interval.

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## 2.3.1 Sample Calculation – radiated & conducted emissions

The field strength is calculated by subtracting the Amplifier Gain and adding the Cable Loss and Antenna Correction Factor to the measured reading. The basic equation is as follows:

Field Strength 
$$(dB\mu V/m) = RAW - AMP + CBL + ACF$$

Where: RAW = Measured level before correction ( $dB\mu V$ )

AMP = Amplifier Gain (dB)

CBL = Cable Loss (dB)

ACF = Antenna Correction Factor (dB/m)

$$\mu V/m = 10^{\frac{\textit{dB}\mu V \, / \, \textit{m}}{20}}$$

Sample radiated emissions calculation @ 30 MHz

$$25 dBuV/m + 17.5 dB - 20 dB + 1.0 dB = 23.5 dBuV/m$$

## 2.3.2 Measurement Uncertainty

Per CISPR 16-4-2	Ulab	$ m U_{cispr}$					
Radiated Disturbance @ 10 meters							
30 – 1,000 MHz	2.25 dB	4.51 dB					
Radiated Disturbance @	3 meters						
30 – 1,000 MHz	2.26 dB	4.52 dB					
1 – 6 GHz	2.12 dB	4.25 dB					
6 – 18 GHz	2.47 dB	4.93 dB					
<b>Conducted Disturbance</b> ©	Mains Terminals						
150 kHz – 30 MHz	1.09 dB	2.18 dB					
<b>Disturbance Power</b>							
30 MHz – 300 MHz	3.92 dB	4.3 dB					

#### Voltech PM6000A

The estimated combined standard uncertainty for harmonic current and flicker measurements is $\pm 5.0\%$ .	Per CISPR 16-4-2 Methods
	Methous

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## 2.3.3 Measurement Uncertainty Immunity

The estimated combined standard uncertainty for ESD immunity measurements is $\pm$ 8.2%.	Per IEC 61000-4-2
The estimated combined standard uncertainty for radiated immunity measurements is $\pm4.10$ dB.	Per IEC 61000-4-3
The estimated combined standard uncertainty for conducted immunity measurements with CDN is $\pm$ 3.66 dB	Per IEC 61000-4-6
The estimated combined standard uncertainty for power frequency magnetic field immunity is $\pm$ 2.9%.	Per IEC 61000-4-8

#### Thermo KeyTek EMC Pro

The estimated combined standard uncertainty for EFT fast transient immunity measurements is  $\pm$  2.6%. The estimated combined standard uncertainty for surge immunity measurements is  $\pm$  2.6%. The estimated combined standard uncertainty for voltage variation and interruption measurements is  $\pm$  1.74%.

The expanded uncertainty at a level of 95% confidence is obtained by multiplying the combined standard uncertainty by a coverage factor of 2. Compliance criteria are not based on measurement uncertainty.

# 2.4 Calibration Traceability

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Measurement method complies with ANSI/NCSL Z540-1-1994 and ISO Standard 17025:2005. Equipment calibration records are kept on file at the test facility.

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## 3 Product Information

## 3.1 Product Description

The Model J010001, eero, is a Home wi-fi router. The EUT will be in compliance with regulatory standards of regions it will be operating in.

## 3.2 Equipment Configuration

A description of the equipment configuration is given in the Test Plan Section. The EUT was tested as called for in the test standard and was configured and operated in a manner consistent with its intended use. The EUT was connected to rated power and allowed to reach intended operating conditions. The placement of the EUT system components was guided by the test standard and selected to represent typical installation conditions.

In the case of an EUT that can operate in more than one configuration, preliminary testing was performed to determine the configuration that produced maximum radiation.

The final configuration was selected to produce the worst case radiation for emissions testing and to place the EUT in the most susceptible state for immunity testing.

## 3.3 Operating Mode

A description of the operation mode is given in the Test Plan Section. In the case of an EUT that can operate in more than one state, preliminary testing was performed to determine the operating mode that produced maximum radiation.

The final operating mode was selected to produce the worst case radiation for emissions testing.

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# 3.4 Unique Antenna Connector

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of CFR47 Parts 15.211, 15.213, 15.217, 15.219, or 15.221.

#### 3.4.1 Results

The eero has 2 Flex PCB dipole antennas that have maximum gain of + 3.4 dBi. They are connected via RF connectors that are not easily accessible to the end user.

Refer to Table 12 for additional antenna information.

#### 3.5 Worst Case Test Modes

The worst case chain was determined by using applicable method as described by ANSI C63.10-2013 Section 11.9. Each chain was measured while the remaining chains were terminated with 50 ohms.

#### 3.5.1 Worse Case Chain

Power setting=25, CCK mode, Channel 6 (2437MHz)

Chain 0	Chain 1		
25.45	24.77		

Chain 0 is found worse case with respect to output power.

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#### 3.5.2 Worse Case Modulation

Channel 6 (2437MHz), Both Chains measured per ANSI C63.10-2013 section 11.9.2.3.2 and section 14.3.2.2. Worse case modulations/Data rates are recorded below:

Mode	Modulation	Data Rate (Mbps)	Power Setting	Power Measured (dBm)
802.11b CCK	BPSK	1	25	28.13
802.11g No HT	BPSK	6	25	25.01
802.11n HT20	BPSK (MCS0)	6.5	25	26.27
802.11n HT40	BPSK (MCS0)	13.5	25	25.51

#### 4 Emissions

Testing was performed in accordance with CFR 47 Part 15.247: 2019 and RSS 247: 2017. These test methods are listed under the laboratory's A2LA Scope of Accreditation. This test measures the levels emanating from the EUT, thus evaluating the potential for the EUT to cause radio frequency interference to other electronic devices. Procedures described in section 8 of the standard were used.

## 4.1 Output Power Requirements

The maximum output power requirement is the maximum equivalent isotropic radiated power delivering at the transmitting antenna under specified conditions of measurements in the presence of modulation.

The maximum output power and harmonics shall not exceed CFR47 Part 15.247 (b) and RSS 247 5.4 (d).

The maximum transmitted power in the band 2400-2483.5 MHz: 1 W

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.

#### 4.1.1 Test Method

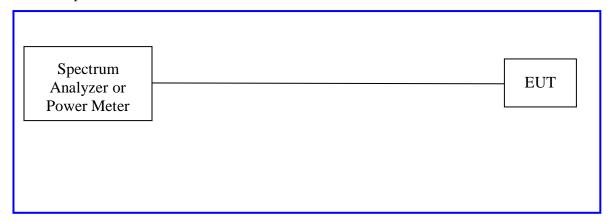
Conducted method was used to measure the channel power output. The preliminary investigation was performed at different data rate / chain to determine the highest power output for each mode. The worst findings were conducted on 3 channels in each operating range per CFR47 Part 15.247(b) and RSS 247 Sect. 5.4(d); 2400 MHz to 2483.5 MHz. The worst mode results indicated below.

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# Test Setup:



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## 4.1.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s). Worse case data for each mode reported below. Plots of highest power included for 802.11b (CCK 1Mbps) at 2437MHz. Total Power refers to both chains summed and corrected for duty cycle if necessary.

Each chain was measured individually using a Spectrum Analyzer channel power per 11.9.2.2.4 Method and then summed per ANSI 63.10 section 14.3.1.

Cable 2: RF Output Power at the Antenna Port – Test Results								
	Test Co	Test Conditions: Conducted Measurement, Normal Temperature						
	Antenna	Antenna Type: Flex PCB dipole						
	Max. Aı	ntenna Gai	<b>n:</b> 3.4 dBi – N	Non Beamforn	ning			
			802.	11b (CCK)				
Operating Channel (MHz)	Limit Power Chain 0 Chain 1 Power Margin [dBm] Settings [dBm] [dBm] (RMS) [dBm]							
2412.00	30.00	22.5	22.99	22.31	25.67	-4.33		
2437.00	30.00	25	25.45	24.77	28.13	-1.87		
2462.00	30.00	22	22.42	21.85	25.15	-4.85		
		802.11g (No HT)						
Operating Channel (MHz)	Limit Power Chain 0 Chain 1 Power Margin [dBm] Settings [dBm] [dBm] (RMS) [dBm]							
2412.00	30.00	21	19.08	18.84	21.67	-8.33		
2437.00	30.00	25	22.00	21.55	24.79	-5.21		
2462.00	30.00	19	17.39	17.06	20.24	-9.76		

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	802.11n (HT20)					
Operating Channel (MHz)	Limit [dBm]	Power Settings	Chain 0 [dBm]	Chain 1 [dBm]	Total Power (RMS) [dBm]	Margin [dB]
2412.00	30.00	18.5	18.04	17.07	20.97	-9.03
2437.00	30.00	25	23.33	22.99	26.27	-3.73
2462.00	30.00	18.5	18.31	17.93	21.13	-8.87
			802.	11n (HT40)		
Operating Channel (MHz)	Limit [dBm]				Total Power (RMS) [dBm]	Margin [dB]
2422.00	30.00	17.25	15.72	15.46	18.60	-11.4
2437.00	30.00	25	22.41	22.20	25.32	-4.68
2452.00	30.00	17	15.57	15.50	18.54	-11.45

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	Test Co	Test Conditions: Conducted Measurement, Normal Temperature					
	Antenna	Antenna Type: Flex PCB dipole					
	Max. Aı	ntenna Gai	<b>n:</b> 6.12 dBi –	Beamforming	5		
			802.	11b (CCK)			
Operating Channel (MHz)	Limit [dBm]						
2412.00	29.88	22.5	22.99	22.31	25.67	-4.21	
2437.00	29.88	25	25.45	24.77	28.13	-1.75	
2462.00	29.88	22	22.42	21.85	25.15	-4.73	
		802.11g (No HT)					
Operating Channel (MHz)	Limit Power Chain 0 Chain 1 Power Margin [dBm] Settings [dBm] [dBm] (RMS) [dBm]					0	
2412.00	29.88	21	19.08	18.84	21.67	-9.27	
2437.00	29.88	25	22.00	21.55	24.79	-4.87	
2462.00	29.88	19	17.39	17.06	20.24	-9.65	

	802.11n (HT20)					
Operating Channel (MHz)	Limit [dBm]	Power Settings	Chain 0 [dBm]	Chain 1 [dBm]	Total Power (RMS) [dBm]	Margin [dB]
2412.00	29.88	18.5	18.04	17.07	20.97	-8.91
2437.00	29.88	25	23.33	22.99	26.27	-3.61
2462.00	29.88	18.5	18.31	17.93	21.13	-8.75
		802.11n (HT40)				
Operating Channel (MHz)	Limit [dBm]	Power Settings	Chain 0 [dBm]	Chain 1 [dBm]	Total Power (RMS) [dBm]	Margin [dB]
2422.00	29.88	17.25	15.72	15.46	18.60	-11.28

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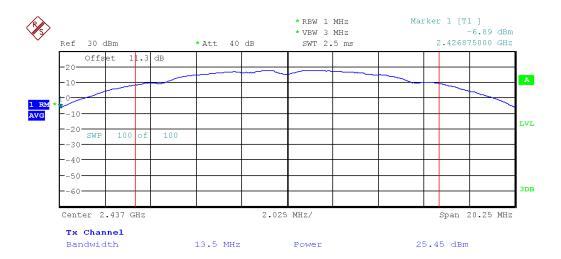
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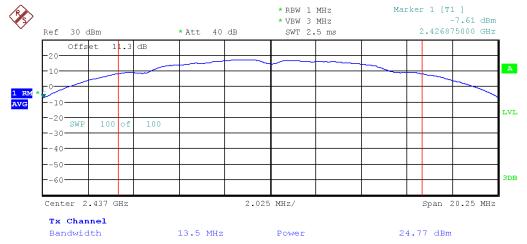
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2437.00	29.88	25	22.41	22.20	25.32	-4.37
2452.00	29.88	17	15.57	15.50	18.54	-11.34



Plot 1. Maximum Conducted Power, 802.11b (CCK) 1Mbps, Chain 0



Plot 2. Maximum Conducted Power, 802.11b (CCK) 1Mbps, Chain 1

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## 4.2 DTS Bandwidth (6dB) and Occupied Bandwidth

The occupied bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency.

The 99% bandwidth is the bandwidth in which 99% of the transmitted power occupied.

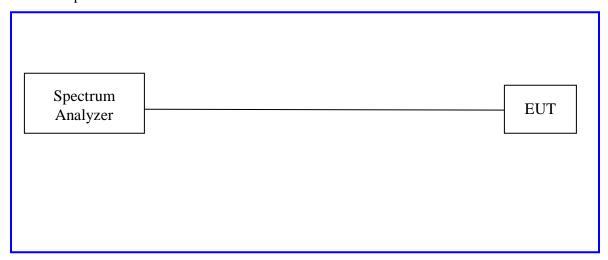
The minimum 6 dB bandwidth shall be at least 500 kHz.

#### 4.2.1 Test Method

The conducted method was used to measure the occupied bandwidth according to ANSI C63.10:2013 Section 11.8. The measurement was performed with modulation per CFR47 15.247 (a) (2) and RSS Gen Sect. 6.6. Measurements were performed on the low, middle and high channels of the operating frequency range; 2400 MHz to 2483.5 MHz.

Chain 0 was tested as worse case (Section 3.5.1).

Test Setup:



#### 4.2.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

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EUT: eero Model: J010001 EMC / Rev 1.2

**Table 3:** Occupied Bandwidth – Test Results

Test Conditions: Conducted Measurement, Normal Temperature

Bandwid	Bandwidth (MHz) for 802.11b				
Freq.	99% Bandwidth (MHz)	6dB Bandwidth (MHz)			
(MHz)	Chain 0	Chain 0			
2412	N/A (See Note 2)	9.09			
2437	13.46	10.13			
2462	N/A (See Note 2)	8.16			

Note: 1. The bandwidth was measured at CCK 1MBps

Note: 2. Reduction in testing permitted as stated in ANSI C63.10-2013 Section 5.6.2.1

Bandwid	Bandwidth (MHz) for 802.11g					
Freq.	99% Bandwidth (MHz)	6dB Bandwidth (MHz)				
(MHz)	Chain 0	Chain 0				
2422	N/A (See Note 2)	16.32				
2437	16.44	16.30				
2452	N/A (See Note 2)	16.37				

Note: 1. The bandwidth was measured at No HT 6MBps

Note: 2. Reduction in testing permitted as stated in ANSI C63.10-2013 Section 5.6.2.1

Bandwid	Bandwidth (MHz) for 802.11n – 20MHz				
Freq.	99% Bandwidth (MHz)	6dB Bandwidth (MHz)			
(MHz)	Chain 0	Chain 0			
2412	N/A (See Note 2)	17.59			
2437	17.69	17.58			
2462	N/A (See Note 2)	17.59			

Note: 1. The bandwidth was measured at HT20 MCS0

Note: 2. Reduction in testing permitted as stated in ANSI C63.10-2013 Section 5.6.2.1

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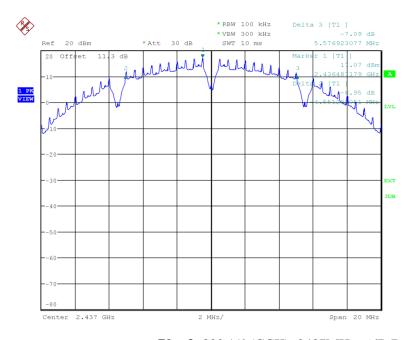
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Bandwidth (MHz) for 802.11n – 40MHz				
Freq.	99% Bandwidth (MHz)	6dB Bandwidth (MHz)		
(MHz)	Chain 0	Chain 0		
2422	N/A (See Note 2)	35.25		
2437	35.96	35.32		
2452	N/A (See Note 2)	35.13		

**Note:** 1. The bandwidth was measured at HT40 MCS0

Note: 2. Reduction in testing permitted as stated in ANSI C63.10-2013 Section 5.6.2.1

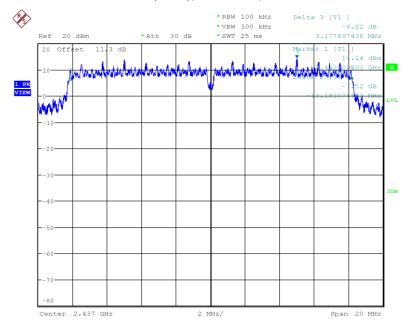


Plot 3. 802.11b(CCK), 2437MHz, 6dB Bandwidth

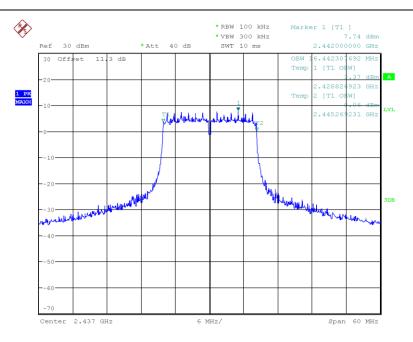
IC ID: 20631-231770

\* RBW 100 kHz Marker 1 [T1] 
\* VBW 300 kHz 15.30 dBm 
\* Att 40 dB SWT 10 ms 2.436519231 GHz Temp 1 [T1 om of other content of the content o

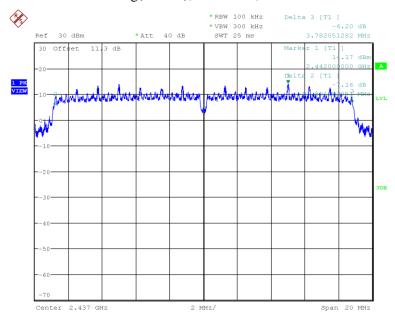
Plot 4. 802.11b(CCK), 2437MHz, 99% Bandwidth



Plot 5. 802.11g(No HT), 2437MHz, 6dB Bandwidth

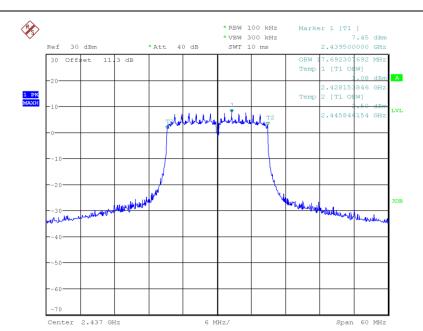


Plot 6. 802.11g(No HT), 2437MHz, 99% Bandwidth

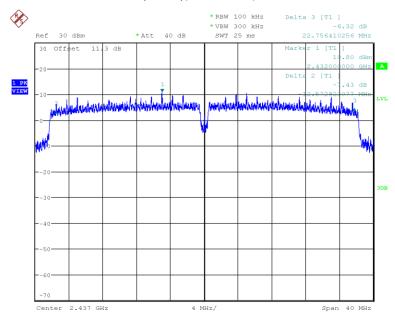


Plot 7. 802.11n(HT20), 2437MHz, 6dB Bandwidth

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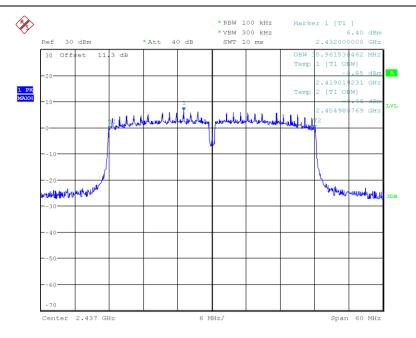


Plot 8. 802.11n(HT20), 2437MHz, 99% Bandwidth



Plot 9. 802.11n(HT40), 2437MHz, 6dB Bandwidth

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Plot 10. 802.11n(HT40), 2437MHz, 99% Bandwidth

## 4.3 Peak Power Spectral Density

According to the CFR47 Part 15.247 (e) and RSS 247 Sect.5.2 (b), the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 4.3.1 Test Method

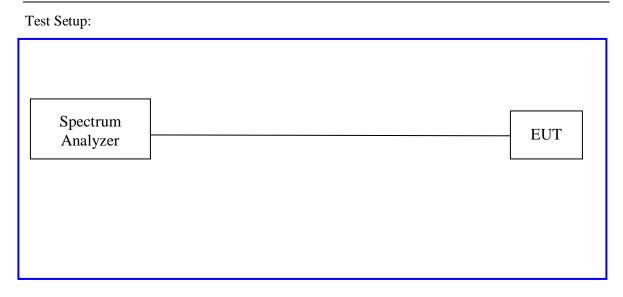
The conducted method was used to measure the channel power output per ANSI C63.10-2013 Section 11.10.2. The measurement was performed with modulation per CFR47 Part 15.247 (e) and RSS 247 Sect.5.2 (b). A pre-evaluation was performed to find the worst case chains (Section 3.5.1) and modes (Section 3.5.2). The worst findings were conducted on 3 channels in each operating frequency range of 2400 MHz to 2483.5 MHz. Total PSD was computed by summing both chains and applying a duty cycle correction factor if necessary.

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Method PKPSD of "KDB 558074 – DTS Measurement Guidance v04" was used.

## 4.3.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

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**Table 4:** Peak Power Spectral Density – Test Results

Test Cond	Test Conditions: Conducted Measurement, Normal Temperature				
	Peak Power Spectral Density – Non Beamforming				
		802.11b CCK			
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]		
2412	3.57	8.0	-4.43		
2437	5.29	8.0	-2.71		
2462	2.89	8.0	-5.11		
<b>Note:</b> 1. T	he highest peak output power	r was observed at CCK 1M	Bps.		
		802.11g No HT			
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]		
2412	-2.26	8.0	-10.26		
2437	1.99	8.0	-6.01		
2462	-1.97	8.0	-9.97		
Note: 1. The highest peak output power was observed at No HT 6MBps					
	802.11n HT20				
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]		
2412	-2.17	8.0	-10.17		
2437	2.35	8.0	-5.65		
2462	-3.16	8.0	-11.16		
<b>Note:</b> 1. T	Note: 1. The highest peak output power was observed at HT20 MCS0				
802.11n HT40					
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]		
2422	-3.21	8.0	-11.21		
2437	-0.56	8.0	-8.56		
2452	-3.85	8.0	-11.85		
Note: 1. T	Note: 1. The highest peak output power was observed at HT40 MCS0				

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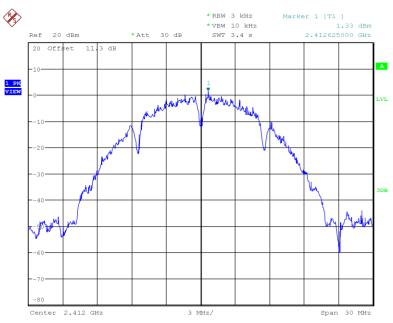
EUT: eero Model: J010001 EMC / Rev 1.2

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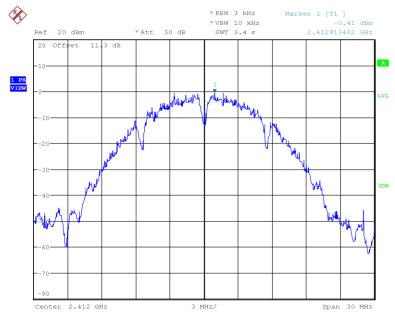
<b>Test Cond</b>	Test Conditions: Conducted Measurement, Normal Temperature					
	Peak Power Spectral Density – Beamforming					
	802.11b CCK					
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]			
2412	3.57	7.88	-4.31			
2437	5.29	7.88	-2.59			
2462	2.89	7.88	-4.99			
Note: 1. T	he highest peak output power	was observed at CCK 1M	Bps.			
		802.11g No HT				
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]			
2412	-2.26	7.88	-10.14			
2437	1.99	7.88	-5.89			
2462	-1.97	7.88	-9.85			
Note: 1. The highest peak output power was observed at No HT 6MBps						
802.11n HT20						
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]			
2412	-2.17	7.88	-10.05			
2437	2.35	7.88	-5.53			
2462	-3.16	7.88	-11.04			
<b>Note:</b> 1. T	Note: 1. The highest peak output power was observed at HT20 MCS0					
802.11n HT40						
Freq. (MHz)	Total PSD [dBm]	Limit [dBm]	Margin [dB]			
2422	-3.21	7.88	-11.21			
2437	-0.56	7.88	-8.56			
2452	-3.85	7.88	-11.85			
Note: 1. The highest peak output power was observed at HT40 MCS0						

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EUT: eero Model: J010001 EMC / Rev 1.2

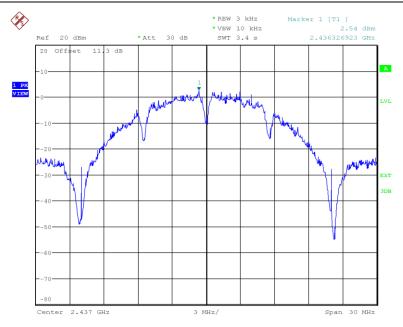


Plot 11. 802.11b CCK, 2412MHz PSD, Chain 0



Plot 12. 802.11b CCK, 2412MHz PSD, Chain 1

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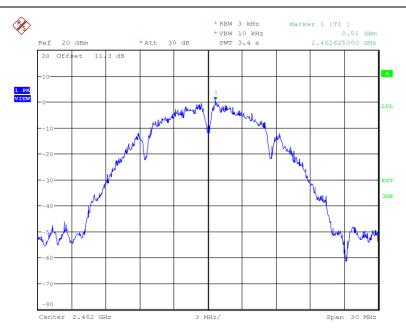


Plot 13. 802.11b CCK, 2437MHz PSD, Chain 0

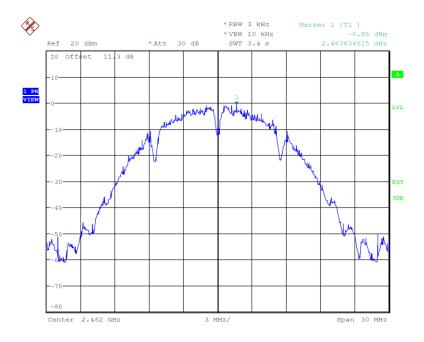


Plot 14. 802.11b CCK, 2437MHz PSD, Chain 1

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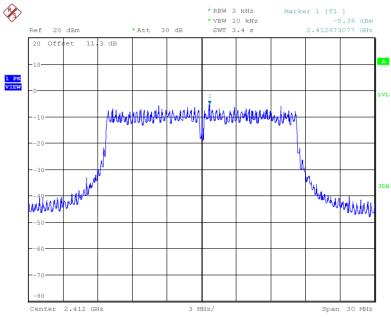
Plot 15. 802.11b CCK, 2462MHz PSD, Chain 0



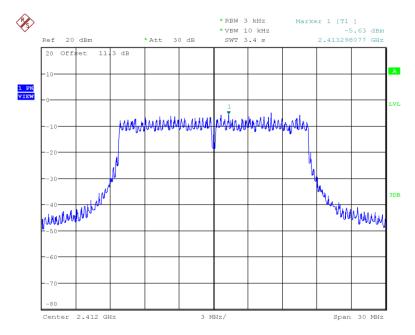
Plot 16. 802.11b CCK, 2462MHz PSD, Chain 1

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Plot 17. 802.11g No HT, 2412MHz PSD, Chain 0

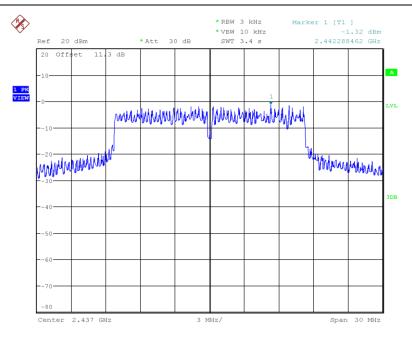


Plot 18. 802.11g No HT, 2412MHz PSD, Chain 1

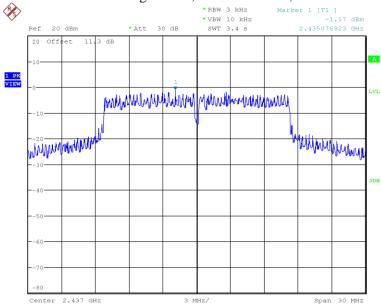
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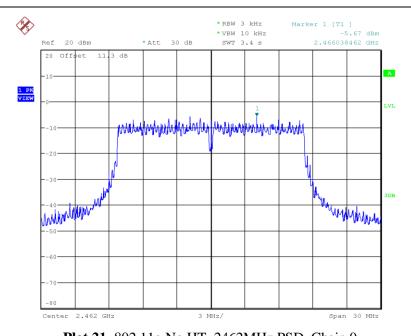
**Plot 19.** 802.11g No HT, 2437MHz PSD, Chain 0

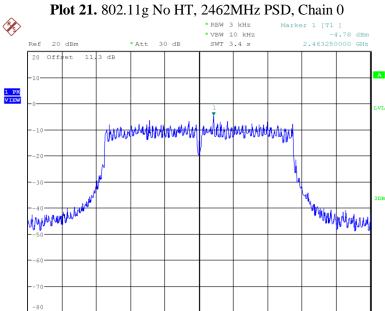


Plot 20. 802.11g No HT, 2437MHz PSD, Chain 1

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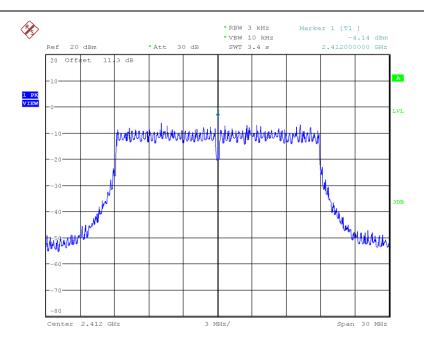




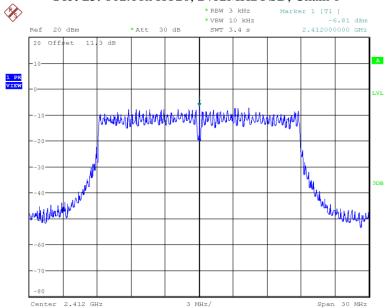
Plot 22. 802.11g No HT, 2462MHz PSD, Chain 1

IC ID: 20631-231770

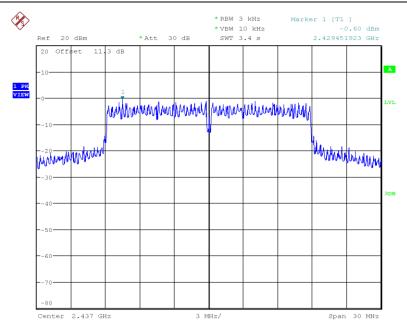
Report Number: 31962535.001



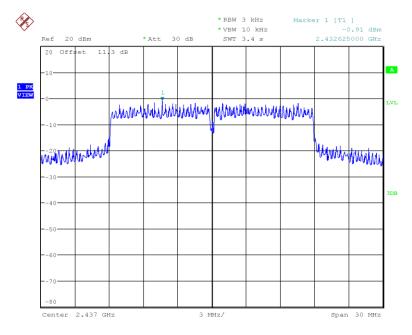
Plot 23. 802.11n HT20, 2412MHz PSD, Chain 0



Plot 24. 802.11n HT20, 2412MHz PSD, Chain 1

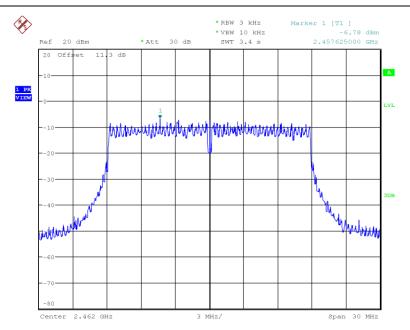


Plot 25. 802.11n HT20, 2437MHz PSD, Chain 0

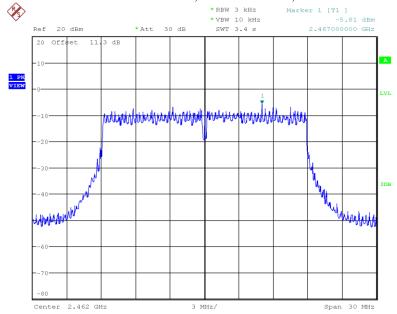


Plot 26. 802.11n HT20, 2437MHz PSD, Chain 1

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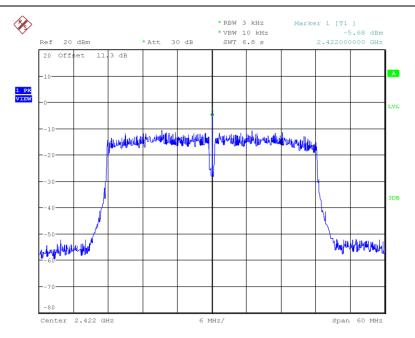
**Plot 27.** 802.11n HT20, 2462MHz PSD, Chain 0



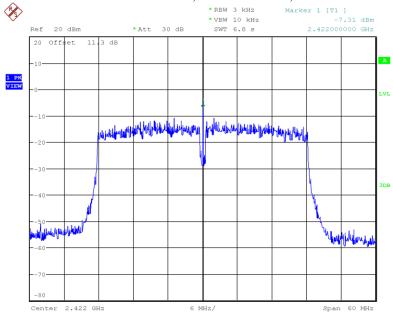
Plot 28. 802.11n HT20, 2462MHz PSD, Chain 1

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Tel: (925) 249-9123, Fax: (925) 249-9124



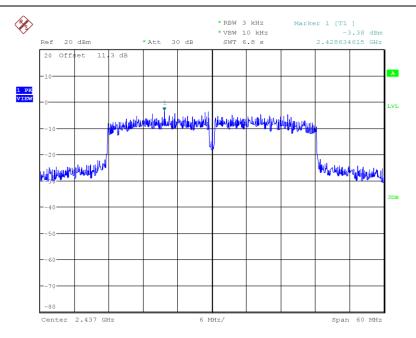
**Plot 29.** 802.11n HT40, 2422MHz PSD, Chain 0



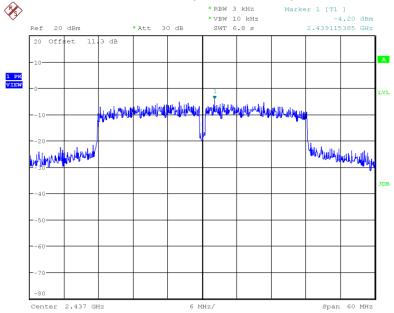
Plot 30. 802.11n HT40, 2422MHz PSD, Chain 1

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Tel: (925) 249-9123, Fax: (925) 249-9124



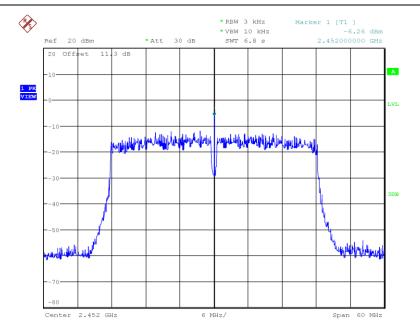
**Plot 31.** 802.11n HT40, 2437MHz PSD, Chain 0



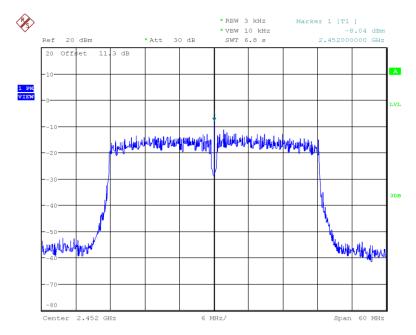
Plot 32. 802.11n HT40, 2437MHz PSD, Chain 1

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Plot 33. 802.11n HT40, 2462MHz PSD, Chain 0



Plot 34. 802.11n HT40, 2462MHz PSD, Chain 1

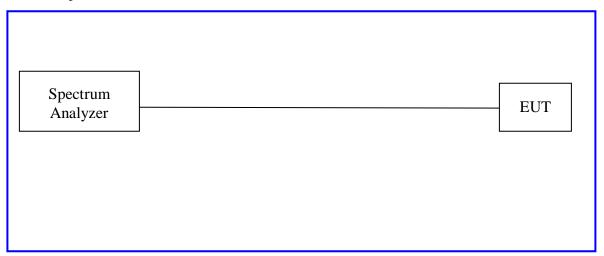
### 4.4 Out of Band Emissions: Non-Restricted Bands

Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmitting mode; per requirement of CFR47 15.205, 15.209, 15.247(d), RSS-247 Sect. 5.5, RSS-GEN Sect. 8.9 and 8.10.

#### 4.4.1 Test Method

Conducted measurements per ANSI C63.10-2013 Sections 6.10, 11.11, 14.3.3 were used to measure the undesirable emission requirement in non-restricted bands. The measurement was performed with modulation. The measurement was conducted from 30MHz to 26.5GHz on 3 channels in each mode on the EUT. Band edge tests were conducted on the low and high channel of each mode. The worst case measurement of each mode and chain is recorded in this report.

Test Setup:



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EUT: eero Model: J010001 EMC / Rev 1.2

# 4.4.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

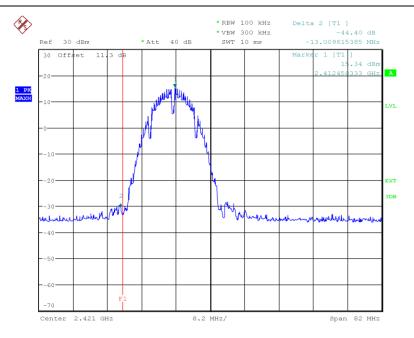
**Table 5:** Emissions at the Band-Edge – Test Results

Test Conditions: Conducted Measurement, Normal Temperature and Voltage only											
Non-Restricted Frequency Band Edge Emissions – Worse Case											
Band Edge	Mode	Chain	Measured (dBc)	Limit (dBc)	Freq (MHz)	Results					
Low	802.11b CCK 1MBps	1	-42.11	30	2394.15	Pass					
High	802.11b CCK 1MBps	0	-46.6	30	2484.35	Pass					
Low	802.11g No HT 6MBps	0	-30.79	30	2399.58	Pass					
High	802.11g No HT 6MBps	0	-37.57	30	2485.77	Pass					
Low	802.11n HT20 MCS0	0	-34.66	30	2399.8	Pass					
High	802.11n HT20 MCS0	0	-38.46	30	2486.38	Pass					
Low	802.11n HT40 MCS0	1	-34.69	30	2396.98	Pass					
High	802.11n HT40 MCS0	1	-33.99	30	2542.63	Pass					

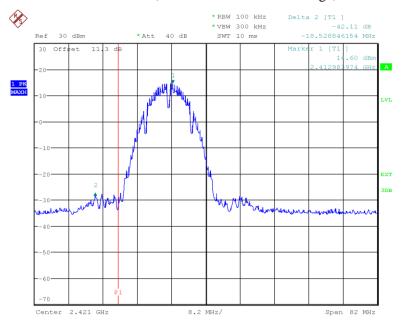
Note: 1. Worst Chain reported in table above, all values in plots below

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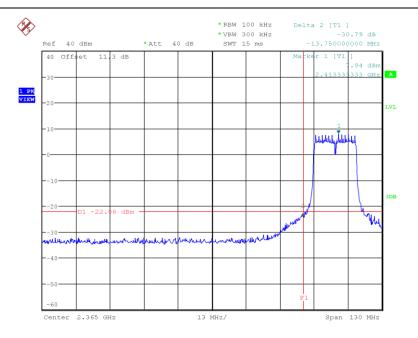
EUT: eero Model: J010001 EMC / Rev 1.2



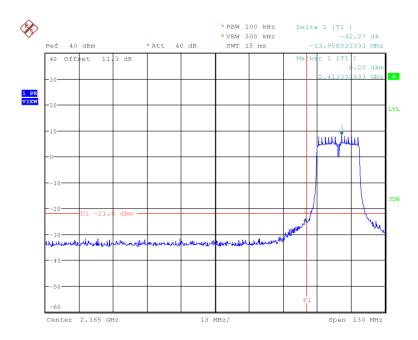
Plot 35. 802.11b CCK, 2412MHz Lower Band Edge, Chain 0



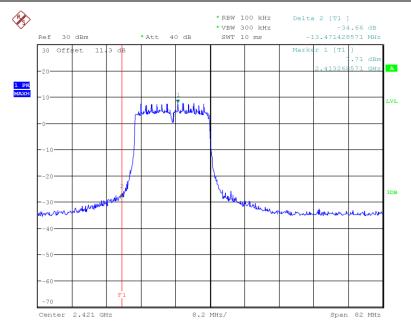
Plot 36. 802.11b CCK, 2412MHz Lower Band Edge, Chain 1



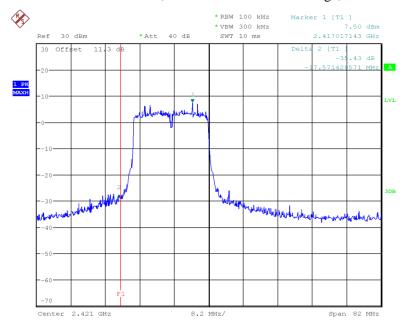
Plot 37. 802.11g No HT, 2412MHz Lower Band Edge, Chain 0



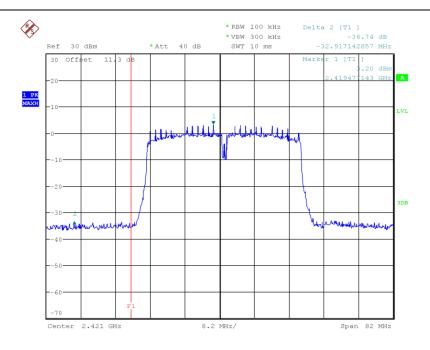
Plot 38. 802.11g No HT, 2412MHz Lower Band Edge, Chain 1



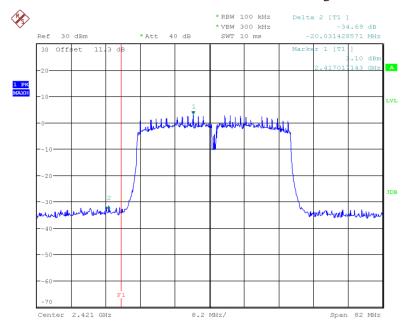
Plot 39. 802.11n HT20, 2412MHz Lower Band Edge, Chain 0



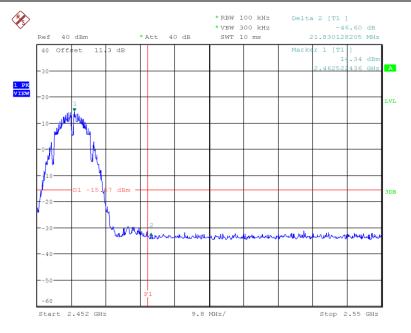
Plot 40. 802.11n HT20, 2412MHz Lower Band Edge, Chain 1



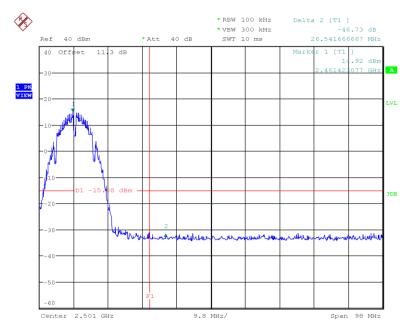
**Plot 41.** 802.11n HT40, 2422MHz Lower Band Edge, Chain 0



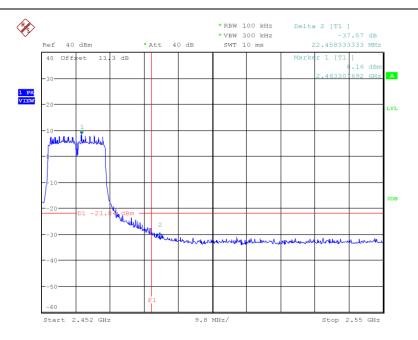
Plot 42. 802.11n HT40, 2422MHz Lower Band Edge, Chain 1



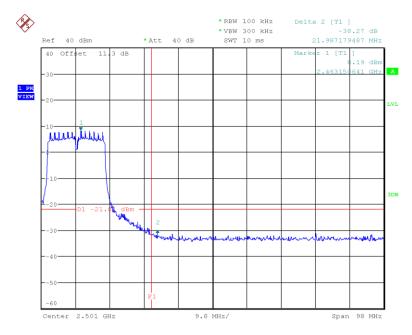
Plot 43. 802.11b CCK, 2462MHz Upper Band Edge, Chain 0



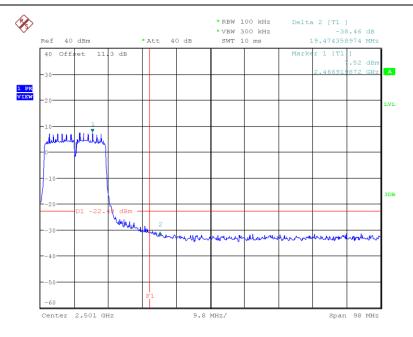
Plot 44. 802.11b CCK, 2462MHz Upper Band Edge, Chain 1



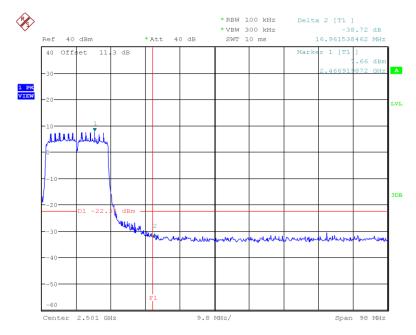
Plot 45. 802.11g No HT, 2462MHz Upper Band Edge, Chain 0



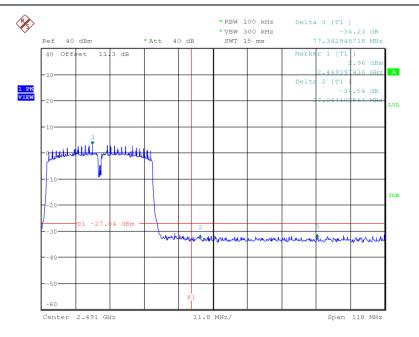
Plot 46. 802.11g No HT, 2462MHz Upper Band Edge, Chain 1



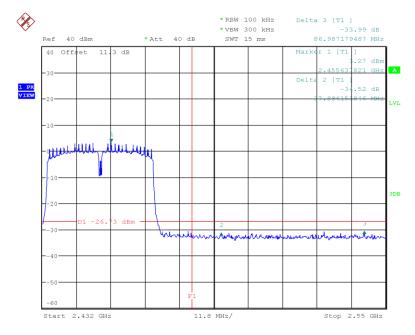
**Plot 47.** 802.11n HT20, 2462MHz Upper Band Edge, Chain 0



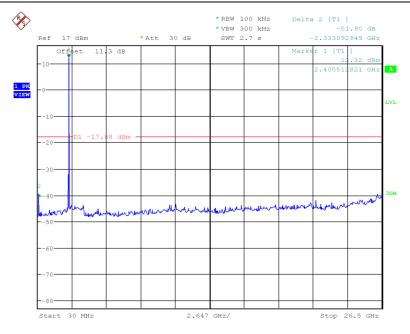
Plot 48. 802.11n HT20, 2462MHz Upper Band Edge, Chain 1



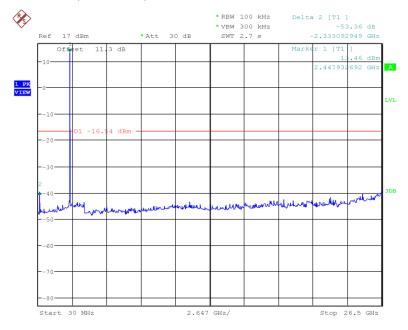
**Plot 49.** 802.11n HT40, 2452MHz Upper Band Edge, Chain 0



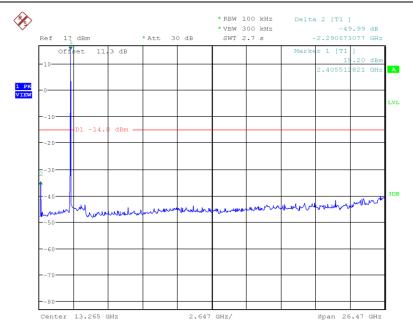
Plot 50. 802.11n HT40, 2452MHz Upper Band Edge, Chain 1



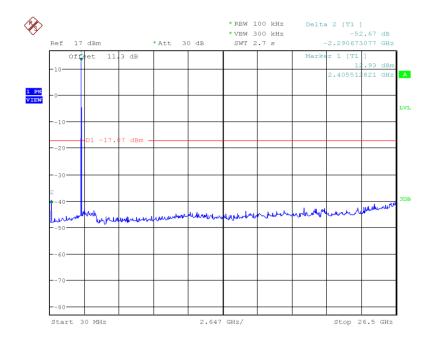
Plot 51. 802.11b CCK, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



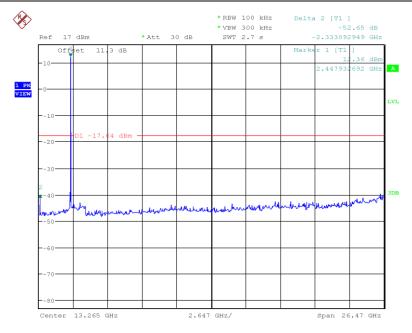
Plot 52. 802.11b CCK, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1



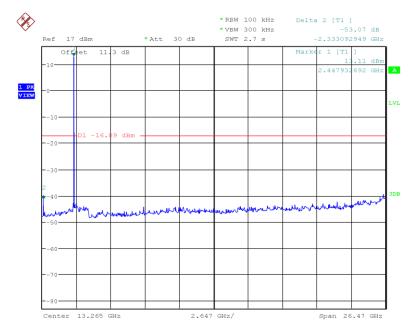
Plot 53. 802.11b CCK, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



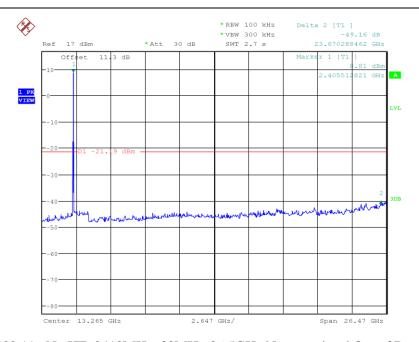
Plot 54. 802.11b CCK, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1



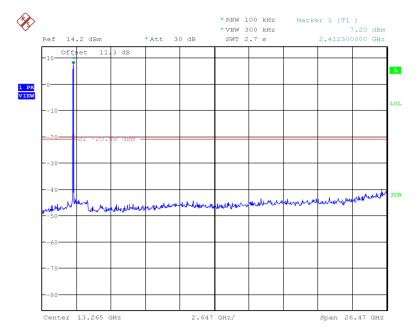
Plot 55. 802.11b CCK, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



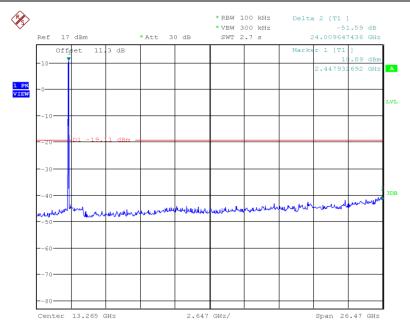
Plot 56. 802.11b CCK, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1



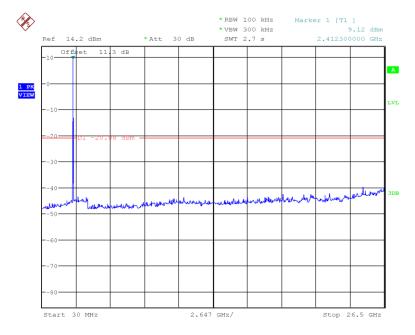
Plot 57. 802.11g No HT, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



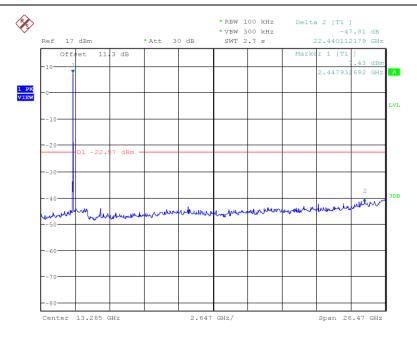
Plot 58. 802.11g No HT, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1



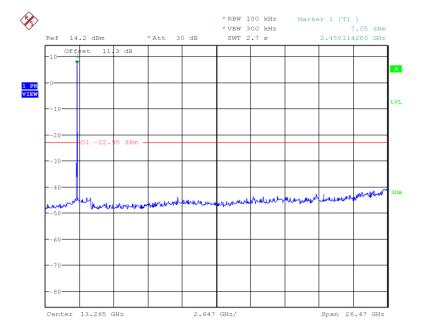
Plot 59. 802.11g No HT, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



Plot 60. 802.11g No HT, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1

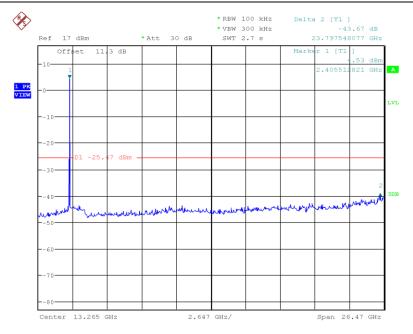


Plot 61. 802.11g No HT, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0

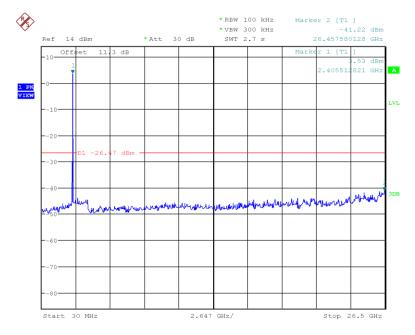


Plot 62. 802.11g No HT, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1

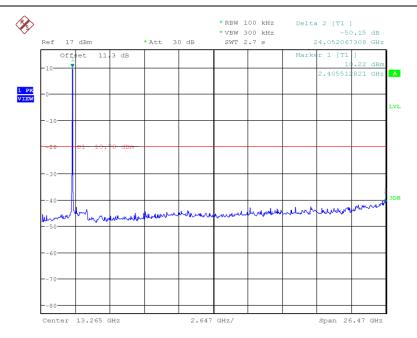
EUT: eero Model: J010001 EMC / Rev 1.2



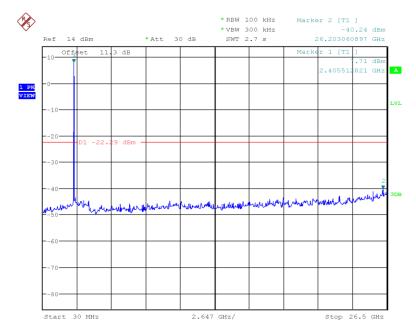
Plot 63. 802.11n HT20, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



Plot 64. 802.11n HT20, 2412MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1

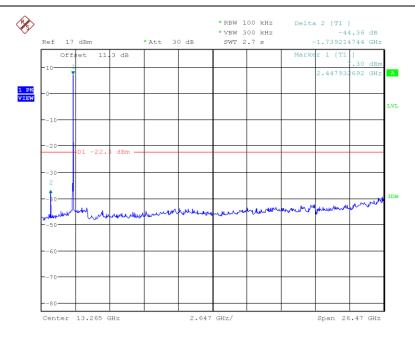


Plot 65. 802.11n HT20, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0

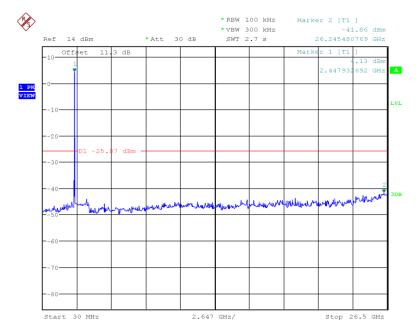


Plot 66. 802.11n HT20, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1

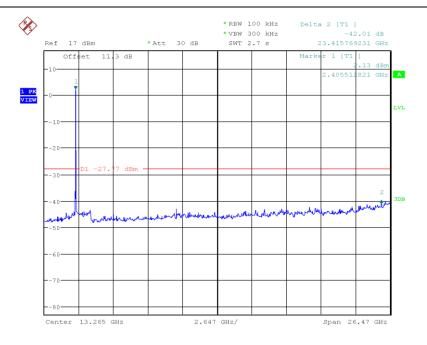
EUT: eero Model: J010001 EMC / Rev 1.2



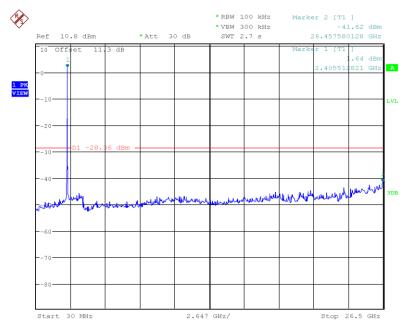
Plot 67. 802.11n HT20, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



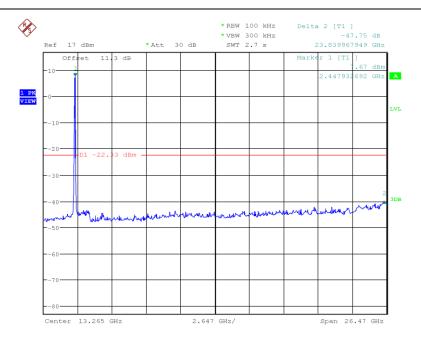
Plot 68. 802.11n HT20, 2462MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1



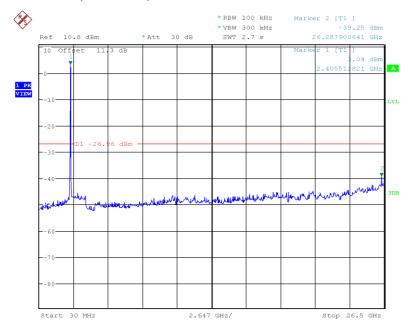
Plot 69. 802.11n HT40, 2422MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



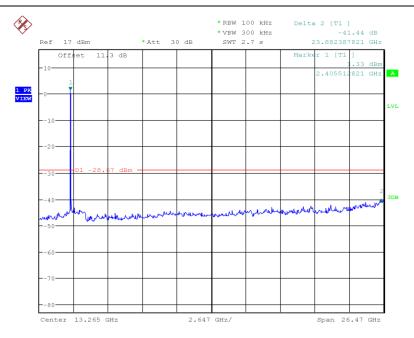
Plot 70. 802.11n HT40, 2422MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1



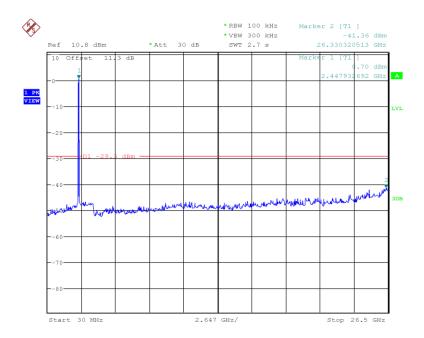
Plot 71. 802.11n HT40, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



Plot 72. 802.11n HT40, 2437MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1



Plot 73. 802.11n HT40, 2452MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 0



Plot 74. 802.11n HT40, 2452MHz, 30MHz-26.5GHz Non-restricted Out of Band, Chain 1

EUT: eero Model: J010001 EMC / Rev 1.2

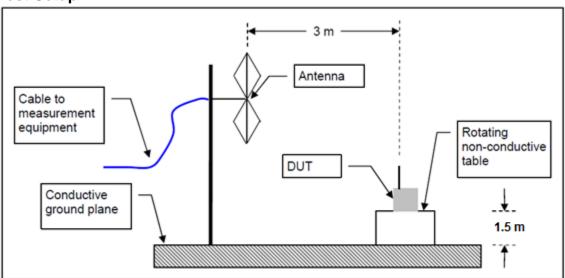
# 4.5 Out of Band Emissions: Restricted Band Edge

Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmitting mode; per requirement of CFR47 15.205, 15.209, 15.247(d), RSS-247 Sect. 5.5, RSS-GEN Sect. 8.9 and 8.10.

#### 4.5.1 Test Method

Radiated measurements per ANSI C63.10-2013 Section 6.10.5 were used to measure the undesirable emission requirement in restricted bands. Peak points were found and RMS Average was taken for each point found. The measurement was performed with modulation. This test was conducted on 3 channels in each mode on the EUT. The worst case measurement of each channel is recorded in this report. All modes were tested in 2x2 configuration since all antenna configurations use the same power settings as 2x2 MIMO mode.

## **Test Setup**



The DUT was stimulated by manufacturer provided test software that is not available to the end user.

Report Number: 31962535.001

EUT: eero Model: J010001 EMC / Rev 1.2

# 4.5.2 Test Results

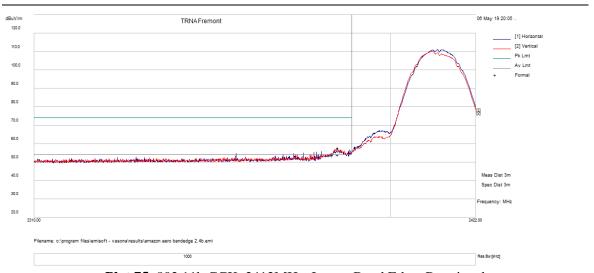
**Table 6:** Emissions at the Band-Edge – Test Results

Lower Restricted Band Edge												
Freq. (MHz)	Mode	Channel	Detector (Average/ Peak)	Measured (dBuV/m)	Limit (dBuV/m)	Margin	Results					
2386.403	802.11b CCK 1Mbps	1	Average	53.88	54	-0.13	Pass					
2386.403	802.11b CCK 1Mbps	1	Peak	57.96	74	-16.04	Pass					
2384.13	802.11g NoHT 6Mbps	1	Average	53.72	54	-3.65	Pass					
2384.13	802.11g NoHT 6Mbps	1	Peak	70.35	74	-0.28	Pass					
2389.999	802.11n HT20 MCS0	1	Average	52.63	54	-1.37	Pass					
2389.999	802.11n HT20 MCS0	1	Peak	67.91	74	-6.09	Pass					
2389.956	802.11n HT40 MCS0	3	Average	51.73	54	-2.27	Pass					
2389.956	802.11n HT40 MCS0	3	Peak	66.31	74	-7.69	Pass					
		Upper Rest	ricted Band I	Edge								
Freq. (MHz)	Mode	Channel	Detector (Average/ Peak)	Measured (dBuV/m)	Limit (dBuV/m)	Margin	Results					
2487.148	802.11b CCK 1Mbps	11	Average	51.15	54	-2.85	Pass					
2487.148	802.11b CCK 1Mbps	11	Peak	55.98	74	-18.02	Pass					
2483.62	802.11g NoHT 6Mbps	11	Average	53.91	54	-0.09	Pass					
2483.62	802.11g NoHT 6Mbps	11	Peak	71	74	-3	Pass					
2483.591	802.11n HT20 MCS0	11	Average	52.28	54	-1.72	Pass					
2483.591	802.11n HT20 MCS0	11	Peak	68.47	74	-5.53	Pass					
2483.801	802.11n HT40 MCS0	9	Average	47.55	54	-6.45	Pass					
		İ	<b>†</b>	†			1					

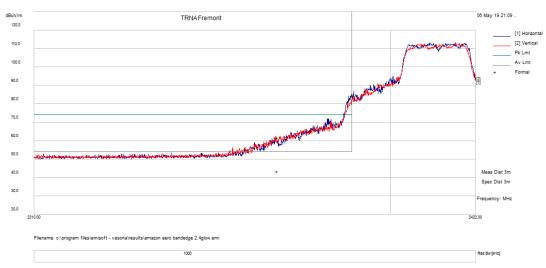
Note: Peak detector in the plots is used to find the azimuth.

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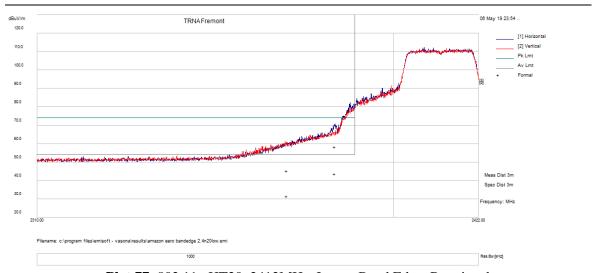
EUT: eero Model: J010001 EMC / Rev 1.2



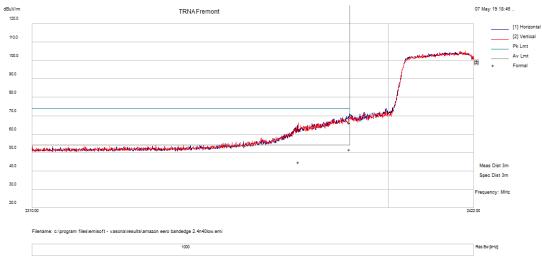
Plot 75. 802.11b CCK, 2412MHz, Lower Band Edge, Restricted



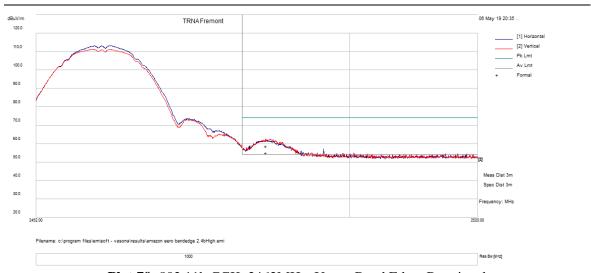
Plot 76. 802.11g No HT, 2412MHz, Lower Band Edge, Restricted



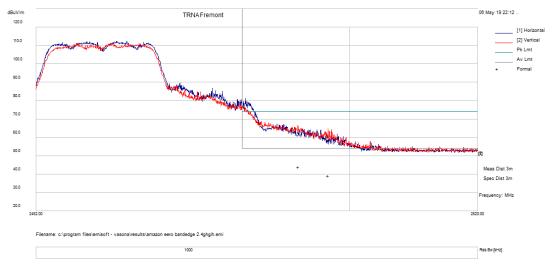
Plot 77. 802.11n HT20, 2412MHz, Lower Band Edge, Restricted



Plot 78. 802.11n HT40, 2422MHz, Lower Band Edge, Restricted

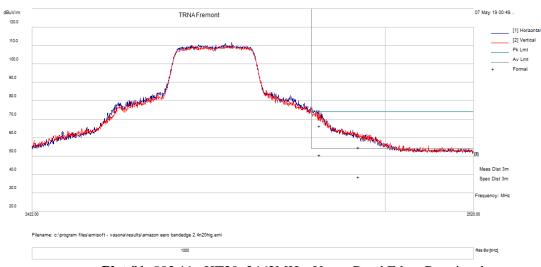


Plot 79. 802.11b CCK, 2462MHz, Upper Band Edge, Restricted

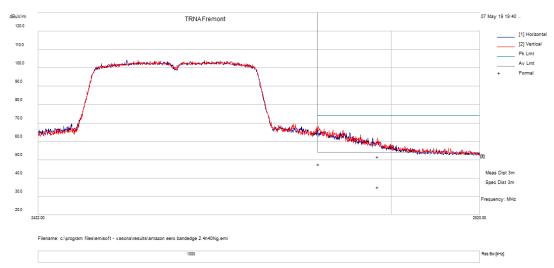


Plot 80. 802.11g No HT, 2462MHz, Upper Band Edge, Restricted

EUT: eero Model: J010001 EMC / Rev 1.2



Plot 81. 802.11n HT20, 2462MHz, Upper Band Edge, Restricted



Plot 82. 802.11n HT40, 2452MHz, Upper Band Edge, Restricted

# 4.6 Transmitter Spurious Emissions

Transmitter spurious emissions are emissions outside the frequency range of the equipment when the equipment is in transmit mode; per requirement of CFR47 15.205, 15.209, 15.247(d), RSS 247 Sect. 5.5, RSS-GEN Sect. 8.9 and 8.10.

### 4.6.1 Test Methodology

## 4.6.1.1 Preliminary Test

A test program that controls instrumentation and data logging was used to automate the preliminary RF emission test procedure. The frequency range of interest was divided into sub-ranges to yield a frequency resolution of approximately 120 kHz and provide a reading at each frequency for no more than 12° of turntable rotation. For each frequency sub-range the turntable was rotated 360° while peak emission data was recorded and plotted over the frequency range of interest in horizontal and vertical antenna polarization's.

Preliminary emission profile testing was performed inside the anechoic chamber. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the floor. The EUT was positioned as shown in the setup photographs. The receiving antenna was placed at a distance of 3m at a fixed height of 1m. Measurement equipment was located outside of the chamber. A video camera was placed inside the chamber to view the EUT.

Pre-scans were performed to determine the worst data rate / chains.

#### 4.6.1.2 Final Test

For each frequency measured, the peak emission was maximized by manipulating the receiving antenna from 1 to 4 meters above the ground plane and placing it at the position that produced the maximum signal strength reading. The turntable was then rotated through 360° while observing the peak signal and placing the EUT at the position that produced maximum radiation. The six highest emissions relative to the limit were measured unless such emissions were more than 20 dB below the limit. If less than six emissions are within 20 dB of the limit, than the noise level of the receiver is measured at frequencies where emissions are expected. Multiples of all oscillator and microprocessor frequencies were also checked.

Final testing was performed on an NSA compliant test site. The EUT was placed on a 1.0m x 1.5m non-conductive table 80cm (<1 GHz) and 150cm (>1 GHz) above the ground plane. The placement of EUT and cables were the same as for preliminary testing and is shown in the setup photographs.

#### 4.6.1.3 Deviations

None.

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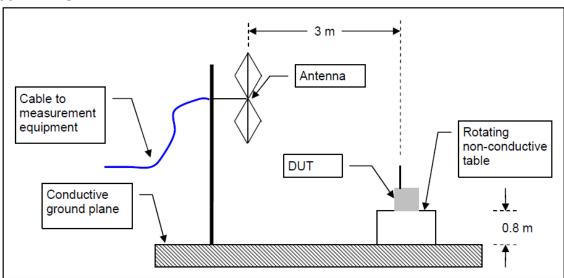
# **4.6.2** Test Setup:

All modes were tested in 2x2 configuration since all antenna configurations use the same power settings as 2x2 MIMO mode.

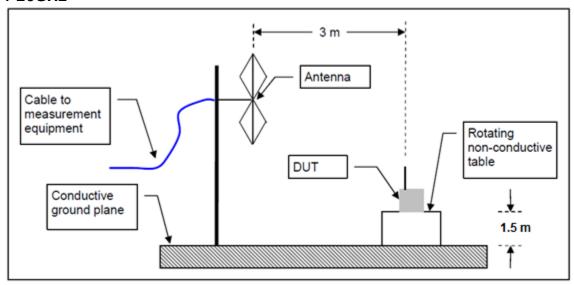
# 4.6.2.1 CDD Mode

The DUT was stimulated by manufacturer provided test software that is not available to the end user.

## 30MHz-1GHz



### 1-26GHz



Report Number: 31962535.001

EUT: eero Model: J010001 EMC / Rev 1.2

IC ID: 20631-231770

FCC ID: 2AEM4-231770

### **4.6.3** Transmitter Spurious Emission Limit

The spurious emissions of the transmitter shall not exceed the values in CFR47 Part 15.205, 15.209: 2015 and RSS Gen Sect. 8.9 and 8.10: 2014.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

.

### 4.6.4 Test Results

The final measurement data was taken under the worst case operating modes, configurations, and/or cable positions. It also reflects the results including any modifications and/or special accessories listed in Sections 1.4 and test plan.

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

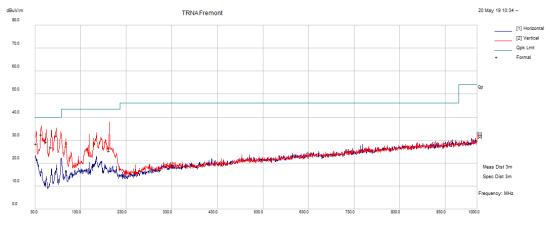
Report Number: 31962535.001

EUT: eero Model: J010001 EMC / Rev 1.2

### 4.6.4.1 Plots

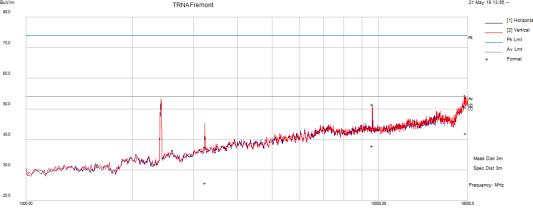
Note: Below 30 MHz was investigated and no emissions was found above noise floor.

Vasona [	Data: Formally Ass	sessed Peaks	5	•								
No	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fai
1 (21)	43.567813	47.72	1.81	-16.94	32.6	Quasi Max	٧	120	360	40	-7.4	Pass
2 (22)	76.815	50.42	2.22	-20.57	32.07	Quasi Max	V	123	112	40	-7.93	Pass
3 (23)	54.771875	48.43	1.97	-21.13	29.27	Quasi Max	٧	104	0	40	-10.73	Pass
4 (24)	65.764063	45.51	2.11	-20.69	26.93	Quasi Max	V	113	340	40	-13.07	Pass
5 (25)	192.901563	38.62	2.89	-16.14	25.37	Quasi Max	٧	103	354	43.5	-18.13	Pass
6 (26)	32.462813	35.84	1.62	-8.86	28.6	Quasi Max	V	176	360	40	-11.41	Pass



Plot 83. 30MHz-1GHz 802.11b Mode

Vasona	Data: Formally Ass	essed Peak	S										
No	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass	/Fail
1 (4)	3221.7025	55.82	3.46	-21.64	37.64	Peak Max	٧	222	1	74	-36.36	Pass	
2 (4)	3221.7025	43.88	3.46	-21.64	25.7	Average Max	٧	222	1	54	-28.31	Pass	
3 (3)	9648.855	45.74	6.1	-13.92	37.92	Average Max	V	222	224	54	-16.08	Pass	
4 (3)	9648.855	59.34	6.1	-13.92	51.52	Peak Max	٧	222	224	74	-22.48	Pass	
5 (5)	17775.63	34.88	9.22	-2.09	42.02	Average Max	Н	221	103	54	-11.98	Pass	
6 (5)	17775.63	46.56	9.22	-2.09	53.7	Peak Max	Н	221	103	74	-20.3	Pass	
dBuV/m			TRN	A Fremont						21 May 19	13:58		



Plot 84. 1-18GHz 802.11b Mode, Channel 1

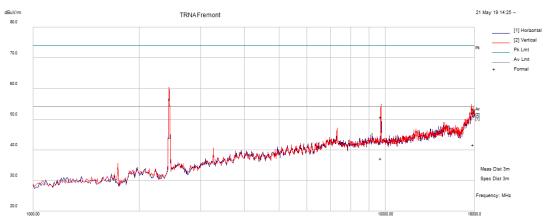
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EUT: eero Model: J010001 EMC / Rev 1.2

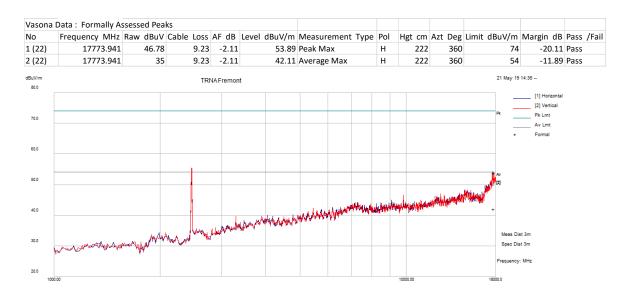
FCC ID: 2AEM4-231770

IC ID: 20631-231770

Vasona I	Data: Formally	Asse	essed Peak	S										
No	Frequency M	1Hz I	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass	/Fail
1 (10)	9743.46	675	45.11	6.17	-13.97	37.3	Average Max	V	222	215	54	-16.7	Pass	
2 (10)	9743.46	675	58.43	6.17	-13.97	50.63	Peak Max	V	222	215	74	-23.37	Pass	
3 (16)	17808.7	781	34.48	9	-1.79	41.69	Average Max	Н	222	0	54	-12.31	Pass	
4 (16)	17808.7	781	46.11	9	-1.79	53.32	Peak Max	Н	222	0	74	-20.68	Pass	



Plot 85. 1-18GHz 802.11b Mode, Channel 6



Plot 86. 1-18GHz 802.11b Mode, Channel 11

Report Number: 31962535.001

EUT: eero Model: J010001 EMC / Rev 1.2

No	Frequency MHz	Raw	dRu/	Cah	ile I c	226	ΔF	dВ	IΑ	vel de	RuV/m	Me	asuren	nent '	Tyne	Pol	Hot cm	Δzt	Deg	Limit dB	uV/m	Margin di	Pas	s /Fai
1 (32)	26193.386		34.41			.08		.97		ver at			k [Scar		урс	Н	200		0		54	_	5 Pas	
2 (33)	19192.385		33.97	_		.94		3.7					k [Scar	-		٧	200		0		54		9 Pas	
BuV/m 90.0						TRNA															22 May 19	11:02 —		
80.0																					_	[1] Horizont [2] Vertical Pk Lmt	al	
70.0																					Pk —	Av Lmt		
60.0																								
50.0																					Aw			
40.0	and the control of th	Lyw.	Marale.	ma	Japanama)	March		wal.	nan)	prodec	market and	O TO STATE OF THE PARTY OF THE	Salayan Marc	Magalland	catalogic	الماليها	of the man white	marine and	مداداته المادان	was all beautiful	[2]			
30.0																								
20.0																					Meas Di	st 3m		
																					Spec Dis	st 3m		
10.0																								

**Plot 87**. 18-26GHz 802.11b Mode, Channel 1

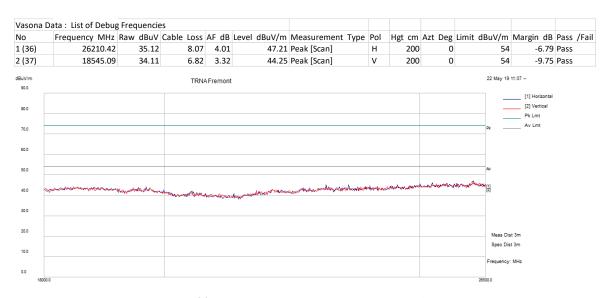
	Data : List of Debug														
No	Frequency MHz		V Cabl					Type	Pol	Hgt cm	Azt Deg	Limit dBu	ıV/m	Margin dB	Pass /Fa
1 (34)	26176.352	34.9	16	8.07	3.92	46.95	Peak [Scan]		Н	200	0		54	-7.05	Pass
2 (35)	18596.192	34	.8	6.83	3.32	44.95	Peak [Scan]		Н	200	0		54	-9.05	Pass
BuV/m				TRN	AFremont							2	2 May 19	11:04 —	
90.0														[1] Horizontal	
80.0														[2] Vertical	
													_	Pk Lmt	
70.0												Pi	· —	Av Lmt	
60.0															
50.0												A	,		
												s . (64 a. )			
40.0	was been been something and the second	Shownow	Maryland	Assen		Marine Marine Marine	the strange and the second	the state of the s	ethoropics:	hander the same of the	(Michigan	drawn and b	ı		
			-												
30.0															
20.0															
													Meas Dis Spec Dis		
10.0													Opeo Dia		
												F	requency	MHz	
0.0															

**Plot 88**. 18-26GHz 802.11b Mode, Channel 6

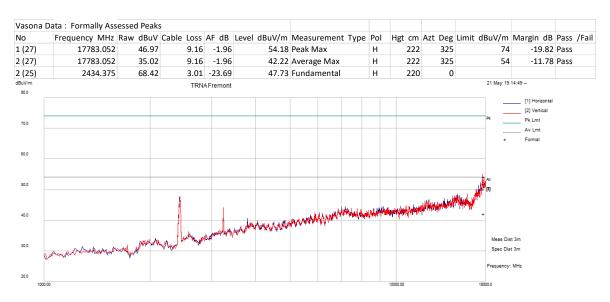
Report Number: 31962535.001

EUT: eero Model: J010001 EMC / Rev 1.2

Tel: (925) 249-9123, Fax: (925) 249-9124



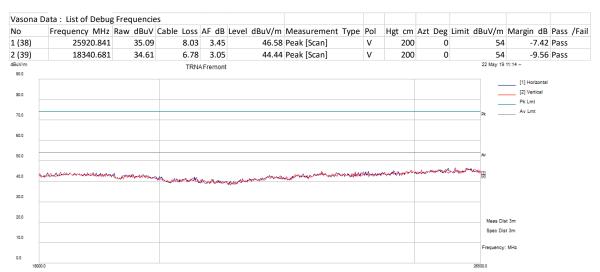
Plot 89. 18-26GHz 802.11b Mode, Channel 11



Plot 90. 1-18GHz 802.11n HT40 Mode, Channel 1

Report Number: 31962535.001

EUT: eero Model: J010001 EMC / Rev 1.2



Plot 91. 18-26GHz 802.11n HT40 Mode, Channel 1

Report Number: 31962535.001

EUT: eero Model: J010001 EMC / Rev 1.2

### 4.7 AC Conducted Emissions

Testing was performed in accordance with ANSI C63.4: 2014. These test methods are listed under the laboratory's A2LA Scope of Accreditation.

This test measures the levels emanating from the EUT's AC input port, thus evaluating the potential for the EUT to cause radio frequency interference to other electronic devices.

The AC conducted emissions of equipment under test shall not exceed the values in CFR47 Part 15.207 and RSS-GEN. Sect. 8.8.

### 4.7.1 Test Methodology

A test program that controls instrumentation and data logging was used to automate the AC Power Line Conducted emission test procedure. The frequency range of interest was divided into subranges such as to yield a frequency resolution of 9 kHz. Each phase and neutral of the AC power line were measured with respect to ground. Measurements were performed using a set of  $50\mu H/50\Omega$  LISNs.

Testing is performed in Lab1. The setup photographs clearly identify which site was used. The vertical ground plane used in the semi-anechoic chamber is a 2m x 2m solid aluminum frame and panel, and it is bonded to the horizontal ground plane.

In the case of tabletop equipment, the EUT is placed on a 1.0m x 1.5m non-conductive table 80cm above the ground plane and 40cm from a vertical ground reference plane. The rear of the EUT was positioned flush with the backside of the table and directly over the LISNs. The power and I/O cables were routed over the edge of the table and bundled approximately 40cm from the ground plane. Support equipment was powered from a separate LISN.

### 4.7.1.1 Deviations

There were no deviations from this test methodology.

#### 4.7.2 Test Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

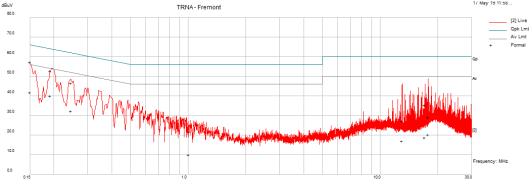
**Table 7:** AC Conducted Emissions – Test Results

Test Conditions: Conducted Measurement at Normal Conditions only									
Antenna Type: Flex PCB dipole	Power Level: See	Section 4.1.4.1							
AC Power: 120 Vac/60 Hz	Configuration: Ta	abletop							
Configuration	Frequency Range	Test Result							
Line 1 (Live)	0.15 to 30 MHz	Pass							
Line 2 (Neutral)	0.15 to 30 MHz	Pass							

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### **4.7.2.1** Live Line



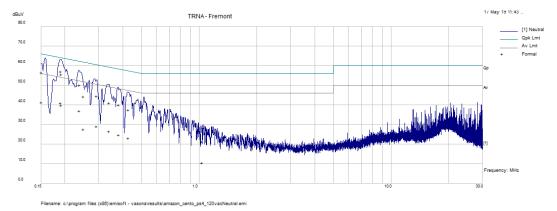
Filename:	c:\program	files	(x86)\emisoft -	vasona\results\amazon	cento ps4	120vacLive.emi

Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement Type	Line	Limit dBuV	Margin dB	Pass /Fail
0.150007	30.53	11.2	0.09	41.82	Average	Live	56	-14.18	Pass
0.150007	46.03	11.2	0.09	57.32	Quasi Peak	Live	66	-8.68	Pass
0.192018	29.68	10.25	0.07	40	Average	Live	53.95	-13.95	Pass
0.192018	42.57	10.25	0.07	52.89	Quasi Peak	Live	63.95	-11.06	Pass
0.245255	36.4	10.17	0.05	46.63	Quasi Peak	Live	61.92	-15.29	Pass
0.245255	22.2	10.17	0.05	32.42	Average	Live	51.92	-19.49	Pass
1.008361	0.06	10.12	0.03	10.21	Average	Live	46	-35.79	Pass
1.008361	11.63	10.12	0.03	21.78	Quasi Peak	Live	56	-34.22	Pass
13.01084	17.08	10.39	-0.03	27.44	Quasi Peak	Live	60	-32.56	Pass
13.01084	6.73	10.39	-0.03	17.09	Average	Live	50	-32.91	Pass
17.09842	8.61	10.47	-0.09	18.99	Average	Live	50	-31.01	Pass
17.09842	24.96	10.47	-0.09	35.34	Quasi Peak	Live	60	-24.66	Pass
17.77038	9.88	10.48	-0.11	20.25	Average	Live	50	-29.75	Pass
17.77038	18.81	10.48	-0.11	29.18	Quasi Peak	Live	60	-30.82	Pass

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### 4.7.2.2 Neutral Line



Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement Type	Line	Limit dBuV	Margin dB	Pass /Fail
0.150878	45.38	11.15	0.09	56.62	Quasi Peak	Neutral	65.95	-9.33	Pass
0.150878	30.22	11.15	0.09	41.46	Average	Neutral	55.95	-14.5	Pass
0.190305	30.76	10.26	0.07	41.08	Average	Neutral	54.02	-12.94	Pass
0.190305	46.65	10.26	0.07	56.98	Quasi Peak	Neutral	64.02	-7.05	Pass
0.191128	45.27	10.26	0.07	55.59	Quasi Peak	Neutral	63.99	-8.39	Pass
0.191128	29.59	10.26	0.07	39.91	Average	Neutral	53.99	-14.08	Pass
0.238569	39.8	10.18	0.05	50.04	Quasi Peak	Neutral	62.15	-12.11	Pass
0.238569	26.98	10.18	0.05	37.22	Average	Neutral	52.15	-14.93	Pass
0.250232	17.4	10.17	0.05	27.62	Average	Neutral	51.75	-24.13	Pass
0.250232	34.11	10.17	0.05	44.33	Quasi Peak	Neutral	61.75	-17.42	Pass
0.292599	34.49	10.13	0.05	44.67	Quasi Peak	Neutral	60.45	-15.78	Pass
0.292599	18.91	10.13	0.05	29.09	Average	Neutral	50.45	-21.36	Pass
0.341483	30.87	10.11	0.04	41.03	Quasi Peak	Neutral	59.17	-18.14	Pass
0.341483	16.54	10.11	0.04	26.69	Average	Neutral	49.17	-22.48	Pass
0.382978	30.05	10.1	0.04	40.18	Quasi Peak	Neutral	58.21	-18.03	Pass
0.382978	14.65	10.1	0.04	24.79	Average	Neutral	48.21	-23.42	Pass
0.429944	27.36	10.1	0.04	37.5	Quasi Peak	Neutral	57.25	-19.75	Pass
0.429944	12.88	10.1	0.04	23.02	Average	Neutral	47.25	-24.23	Pass
1.035926	0.5	10.12	0.03	10.66	Average	Neutral	46	-35.34	Pass
1.035926	11.13	10.12	0.03	21.28	Quasi Peak	Neutral	56	-34.72	Pass

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# 5 Test Equipment List

# 5.1 Equipment List

Equipment	Manufacturer	Model #	Serial/Inst #	Last Cal mm/dd/yyyy	Next Cal mm/dd/yyyy
Spectrum Analyzer	Rohde & Schwarz	FSU26.5	200050	11/20/2018	11/20/2019
Spectrum Analyzer	Rohde & Schwarz	FSU8	101358	12/07/2018	12/07/2019
EMI Receiver	Rohde & Schwarz	ESIB40	100180	05/31/2018	05/31/2020
L.I.S.N.	Com-Power	LI-215	192000	01/16/2019	01/16/2020
Transient Limiter	Com-Power	LIT-930	531582	01/16/2019	01/16/2020
EMI Receiver	Agilent	MXE N9038A	MY51210195	01/16/2019	01/16/2020
Preamplifier, 9 kHz – 1 GHz	Sonoma	310N	213221	01/16/2019	01/16/2020
Bilog Antenna	Sunol Sciences	ЈВ3	A060502	05/27/2018	05/27/2020
Amplifier	Miteq	TTA1800-30-HG	1842452	01/15/2019	01/15/2020
Horn Antenna	Sunol Sciences	DRH-118	A040806	03/05/2019	03/05/2020
Amplifier	HP	8449B	3008A01013	01/15/2019	01/15/2020
Amplifier	Sonoma	310N	185516	N/A (See	e Note)
1.6 GHz Low Pass Filter	K&L Microwave	8L120-X1600-0/09135- 0249	UA691-35	N/A (See Note)	
3.5 GHz High Pass Filter	Hewlett Packard	84300-80038	820004	N/A (See	e Note)

Note: Equipment is characterized before use.

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### 6 EMC Test Plan

### 6.1 Introduction

This section provides a description of the Equipment Under Test (EUT), configurations, operating conditions, and performance acceptance criteria. It is an overview of information provided by the manufacturer so that the test laboratory may perform the requested testing.

### 6.2 Customer

**Table 8:** Customer Information

<b>Company Name</b>	eero LLC
Address	660 3rd Street, 4th floor
City, State, Zip	San Francisco, CA, 94107
Country	USA

Table 9: Technical Contact Information

Name	Clifford Clarke
E-mail	compliance@eero.com

## 6.3 Equipment Under Test (EUT)

The information provided in the following table should be listed as it should appear in the final report. For those products that have only a model name, list the model number as *non-applicable* and vice-versa.

Table 10: EUT Designation

Product Name	eero
Model Number	J010001
System Name	eero Home wi-fi router
Product Description	Home wi-fi router

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# 6.4 Product Specifications

**Table 11:** EUT Specifications

EUT Specifications			
AC Input	100-240V AC, 50 – 60 Hz		
Environment	Indoor		
Operating Temperature Range:	0-35°C		
Multiple Feeds:	☐ Yes and how many No		
Product Marketing Name (PMN)	eero		
Hardware Version Identification Number (HVIN)	A01		
Firmware Version Identification Number (FVIN)	eeroOS		
RF Test Software Version	BusyBox v1.23.2		
Operating Modes	802.11b 802.11g 802.11n HT20/40		
Transmitter Frequency Band	2.4 GHz – 2.4835 GHz		
Power Setting @ Operating Channel	See section 4.1.2.		
Modulation	CCK (802.11b) and OFDM (802.11g/n)		
TX/RX Chain (s)	MIMO 2x2		
Directional Gain Type	CCD		
Type of Equipment	☐ Table Top ☐ Wall-mount ☐ Floor standing cabinet ☐ Other:		
<b>Note:</b> All 2 chains will be on / tranchain.	nsmitted at all times with the same power levels and antenna gains per		

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Table 12: Antenna Information

		Max Gain (dBi)	Max Ga	in (dBi)
Number	Antenna Type	2.4GHz	5150-5250 MHz	5725-5850 MHz
Antenna 0	Internal, Flex PCB dipole	2.4	2 11	3.97
Antenna 1	Internal, Flex PCB dipole	3.4	3.11	3.97

Number	Antonno Trino	Beam Forming Gain (dBi)	Beam Forming Gain (dBi)	
Number	Antenna Type	2.4GHz	5150-5250 MHz	5725-5850 MHz
Antenna 0	Internal, Flex PCB dipole	6.12	6.01	6.48
Antenna 1	Internal, Flex PCB dipole	0.12	0.01	0.46

**Table 13:** Interface Specifications

Interface Type	Cabled with what type of cable?	Is the cable shielded?	Maximum potential length of the cable?	Metallic (M), Coax (C), Fiber (F), or Not Applicable?
Ethernet	Ethernet	Yes	Metric: < 3.0m	⊠M

Table 14: Accessory Equipment

Equipment	Manufacturer	Model	Serial	Comment
AC/DC Converter	Luxshare	C110011	See Note	

<sup>1.</sup> **Note:** All eero devices are serialized at the time of manufacturer. The devices used for the certification testing were assembled in the factory but did not go through the regular marking process so they were not serialized.

 Table 15: Ancillary Equipment (used for test purposes only)

Equipment	Manufacturer	Model	Serial	Used for
Laptop	Lenovo	Thinkpad	N/A	Setup EUT operating channels via QRCT with Ethernet connection to EUT
Note: None.				

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Table 16: Description of Sample used for Testing

Sample Number	Device	Serial Number	Configuration	Used For
1	eero	Unit #1	Radiated Sample	TX Spurious Emissions, Bandedge
2	eero	Unit #1	Radiated Sample	AC Mains Conducted Emissions
3	eero	Unit #2	Conducted Sample	All other conducted Measurments
Note: None.				

Table 17: Description of Test Configuration used for Radiated Measurement.

Device	Antenna	Mode	Setup Photo (X-Axis)	Setup Photo (Y-Axis)	Setup Photo (Z-Axis)
eero	Flex PCB Dipole	Transmit	EUT upright	N/A	N/A
Note: Manufacturer has declared that the EUT is designed to operate in a fixed, upright position.					

# 6.5 Test Specifications

 Table 18: Test Specifications

Emissions and Immunity			
Standard	Requirement		
CFR 47 Part 15.247: 2019	All		
RSS 247 Issue 2, 2017	All		

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