

Test of Fluke Networks BCM43460 Enterprise  
Radio module

To: FCC 47 CFR Part 15.247 & IC RSS-210

Test Report Serial No.: FLUK14-U3 Rev B



# TEST REPORT

FROM



Test of Fluke Networks BCM43460 Enterprise Radio module

to

To FCC 47 CFR Part 15.247 & IC RSS-210

Test Report Serial No.: FLUK14-U3 Rev B

Note: this report contains data with regard to the 2400-2483.5 MHz and 5725-5850 MHz operational modes of the Fluke Networks BCM43460 Enterprise Radio module. Test data for the Bands 5,150 - 5,250; 5,250 – 5,350 and 5,470–5,725 MHz is reported in MiCOM Labs test report FLUK14-U6.

This report supersedes: FLUK14-U3 Rev A

Applicant: Fluke Networks  
6920 Seaway Blvd  
Everett  
WA 98203, USA

Product Function: 802.11 a/b/g/n/ac wireless module

Copy No: pdf Issue Date: 6th August 2014

**This Test Report is Issued Under the Authority of:**

**MiCOM Labs, Inc.**

575 Boulder Court

Pleasanton, CA 94566 USA

Phone: +1 (925) 462-0304

Fax: +1 (925) 462-0306

[www.micomlabs.com](http://www.micomlabs.com)



TESTING CERT #2381.01

**MiCOM Labs is an ISO 17025 Accredited Testing Laboratory**

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 3 of 448

---

This page has been left intentionally blank

---

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 4 of 448

## TABLE OF CONTENTS

<b>ACCREDITATION, LISTINGS &amp; RECOGNITION .....</b>	<b>5</b>
TESTING ACCREDITATION .....	5
RECOGNITION .....	6
PRODUCT CERTIFICATION .....	7
<b>TEST RESULT CERTIFICATE .....</b>	<b>9</b>
<b>1. REFERENCES AND MEASUREMENT UNCERTAINTY .....</b>	<b>10</b>
1.1. Normative References .....	10
1.2. Test and Uncertainty Procedures .....	11
<b>2. PRODUCT DETAILS AND TEST CONFIGURATIONS .....</b>	<b>12</b>
2.1. Technical Details .....	12
2.2. Scope of Test Program .....	13
2.3. Equipment Model(s) and Serial Number(s) .....	16
2.4. Antenna Details .....	16
2.5. Cabling and I/O Ports .....	17
2.6. Test Configurations .....	17
2.7. Equipment Modifications .....	18
2.8. Deviations from the Test Standard .....	18
<b>3. TEST EQUIPMENT CONFIGURATION(S) .....</b>	<b>19</b>
3.1. Conducted RF Emission Test Set-up .....	19
3.2. Radiated Spurious Emission Test Set-up > 1 GHz .....	20
3.3. Digital Emissions Test Set-up (0.03 – 1 GHz) .....	21
3.4. ac Wireline Emission Test Set-up .....	22
<b>4. TEST SUMMARY .....</b>	<b>23</b>
<b>5. TEST RESULTS .....</b>	<b>25</b>
5.1. Device Characteristics .....	25
5.1.1. <i>Conducted Testing</i> .....	25
5.1.2. <i>Radiated Emission Testing</i> .....	89
5.1.3. <i>AC Wireline Conducted Emissions (150 kHz – 30 MHz)</i> .....	132
<b>6. PHOTOGRAPHS .....</b>	<b>135</b>
6.1. Conducted Test Setup .....	135
6.2. Radiated Emissions < 1 GHz .....	136
6.3. Radiated Emissions > 1 GHz .....	137
<b>7. TEST EQUIPMENT .....</b>	<b>138</b>
<b>APPENDIX .....</b>	<b>139</b>
<b>A. SUPPORTING INFORMATION .....</b>	<b>139</b>
A.1. CONDUCTED TEST PLOTS .....	139
A.1.1. <i>Power Spectral Density</i> .....	140
A.1.2. <i>6 dB &amp; 99% Bandwidth</i> .....	232
A.1.3. <i>Conducted Spurious Emissions</i> .....	301

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

## **ACCREDITATION, LISTINGS & RECOGNITION**

### **TESTING ACCREDITATION**

MiCOM Labs, Inc. is an accredited Electrical testing laboratory per the international standard EN ISO/IEC 17025. The company is accredited by the American Association for Laboratory Accreditation (A2LA) [www.a2la.org](http://www.a2la.org) test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-01.pdf>



This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



## **RECOGNITION**

MiCOM Labs, Inc has widely recognized Electrical testing capabilities. Our international recognition includes Conformity Assessment Body designation by APEC MRA\*\* countries. Our test reports are widely accepted for global type approvals.

Country	Recognition Body	Status	Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Listing #: 102167
Canada	Industry Canada (IC)	FCB	APEC MRA 2	US0159 Listing #: 4143A-2 4143A-3
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	APEC MRA 2	RCB 210
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA	NB 2280
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)	CAB	APEC MRA 1	
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)	CAB	APEC MRA 1	
Singapore	Infocomm Development Authority (IDA)	CAB	APEC MRA 1	
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)	CAB	APEC MRA 1	
Vietnam	Ministry of Communication (MIC)	CAB	APEC MRA 1	

\*\*APEC MRA – Asia Pacific Economic Community Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the APEC member countries.

Phase I - recognition for product testing

Phase II – recognition for both product testing and certification

N/A – Not Applicable

\*\*EU MRA – European Union Mutual Recognition Agreement.

Is a recognition agreement under which test lab is accredited to regulatory standards of the EU member countries.

\*\*NB – Notified Body

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

## **PRODUCT CERTIFICATION**

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard EN ISO/IEC 17065. The company is accredited by the American Association for Laboratory Accreditation (A2LA) [www.a2la.org](http://www.a2la.org) test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; <http://www.a2la.org/scopepdf/2381-02.pdf>



American Association for Laboratory Accreditation

### ***Accredited Product Certification Body***

A2LA has accredited

**MICOM LABS**

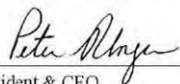
*Pleasanton, CA*

for technical competence as a

**Product Certification Body**

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC 17065:2012 - *Requirements for bodies certifying products, processes and services*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.

Presented this 28<sup>th</sup> day of February 2014.



President & CEO  
For the Accreditation Council  
Certificate Number 2381.02  
Valid to November 30, 2015

*For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation*

### **United States of America – Telecommunication Certification Body (TCB)**

TCB Identifier – US0159

### **Industry Canada – Certification Body**

CAB Identifier – US0159

### **Europe – Notified Body**

Notified Body Identifier - 2280

### **Japan – Recognized Certification Body (RCB)**

RCB Identifier - 210

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 8 of 448

---

## DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft		
Rev A	1 <sup>st</sup> July 2014	Initial release.
Rev B	6 <sup>th</sup> August 2014	EUT model number corrected.

---

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 9 of 448

## **TEST RESULT CERTIFICATE**

Manufacturer:	Fluke Networks 6920 Seaway Blvd Everett WA 98203, USA	Tested By:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California, 94566, USA
EUT:	802.11 a/b/g/n/ac wireless module	Telephone:	+1 925 462 0304
Model(s):	BCM43460	Fax:	+1 925 462 0306
S/N's:	000E8E38271E		
Test Date(s):	29th April - 25th June 2014	Website:	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC 47 CFR Part 15.247 & IC RSS-210	EQUIPMENT COMPLIES

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

### **Notes:**

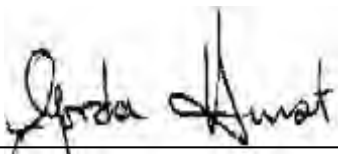
1. This document reports conditions under which testing was conducted and the results of testing performed.
2. Details of test methods used have been recorded and kept on file by the laboratory.
3. Test results apply only to the item(s) tested.

**Approved & Released for MiCOM Labs, Inc. by:**



TESTING CERT #2381.01

  
\_\_\_\_\_  
Graeme Grieve  
Quality Manager MiCOM Labs,

  
\_\_\_\_\_  
Gordon Hurst  
President & CEO MiCOM Labs, Inc.

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

## 1. REFERENCES AND MEASUREMENT UNCERTAINTY

### 1.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
i.	FCC 47 CFR Part 15, Subpart C	2014	Title 47: Telecommunication PART 15—RADIO FREQUENCY DEVICES Subpart C—Intentional Radiators
ii.	RSS-210 Annex 8	2010	Radio Standards Specification 210, Issue 8, Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment
iii.	FCC OET KDB 662911	4 <sup>th</sup> April 2011	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
iv.	DA 00-705	2000	FCC DA 00-705 "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" released March 30, 2000
v.	RSS-GEN	2010	Radio Standards Specification-Gen, Issue 3, General Requirements and Information for the Certification of Radiocommunication Equipment
vi.	FCC 47 CFR Part 15B	2010	47 CFR Part 15, SubPart B; Unintentional Radiators
vii.	ICES-003	2004	Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard Digital Apparatus; Issue 4
viii.	ANSI C63.4	2009	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ix.	CISPR 22/ EN 55022	2008 2006+A1:2007	Limits and Methods of Measurements of Radio Disturbance Characteristics of Information Technology Equipment
x.	M 3003	Edition 2 Jan 2007	Expression of Uncertainty and Confidence in Measurements
xi.	LAB34	Edition 1 Aug 2002	The expression of uncertainty in EMC Testing
xii.	ETSI TR 100 028	2001	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
xiii.	A2LA	April 2014	Reference to A2LA Accreditation Status – A2LA Advertising Policy



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 11 of 448

---

## **1.2. Test and Uncertainty Procedures**

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 12 of 448

## 2. PRODUCT DETAILS AND TEST CONFIGURATIONS

### 2.1. Technical Details

Details	Description
Purpose:	Test of the Fluke Networks BCM43460 Enterprise Radio module to FCC Part 15.247 and Industry Canada RSS-210 regulations.
Applicant:	Fluke Networks 6920 Seaway Blvd, Everett, WA 98203, USA
Manufacturer:	As applicant.
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court, Pleasanton, California 94566 USA
Test report reference number:	FLUK14-U3 Rev B
Date EUT received:	20th April 2014
Standard(s) applied:	FCC 47 CFR Part 15.247 & IC RSS-210
Dates of test (from - to):	29th April - 25th June 2014
No of Units Tested:	One
Type of Equipment:	802.11a/b/g/n/ac Wireless Access Point 3x3 MIMO
Manufacturers Trade Name:	Wireless Access Point
Model(s):	BCM43460
Location for use:	Indoor only
Declared Frequency Range(s):	2400 - 2483.5 MHz; 5725 - 5850 MHz
Hardware Rev	303
Software Rev	mtool 1.0
Type of Modulation:	Per 802.11 –CCK, BPSK, QPSK, DSSS, OFDM
EUT Modes of Operation:	Legacy 802.11a/b/g/n/ac
Declared Nominal Average Output Power:	2.4 GHz Operation 802.11b/g/n: +27 dBm 5 GHz Operation 802.11a/n/ac: +23 dB m
System Beam Forming:	BCM43460 has no capability for antenna beam forming
Transmit/Receive Operation:	Time Division Duplex
Rated Input Voltage and Current:	3.3Vdc 1.5 A
Operating Temperature Range:	Declared range 0° to +40°.
ITU Emission Designator:	2400 – 2483.5 MHz 802.11b 13M7G1D 2400 – 2483.5 MHz 802.11g 19M8D1D 2400 – 2483.5 MHz 802.11n – HT-20 20M0D1D 2400 – 2483.5 MHz 802.11n – HT-40 44M4D1D 5725 – 5850 MHz 802.11a 17M7D1D 5725 – 5850 MHz 802.11n – HT-20 18M8D1D 5725 – 5850 MHz 802.11n – HT-40 41M7D1D 5725 – 5850 MHz 802.11ac ac-40 44M0D1D 5725 – 5850 MHz 802.11ac ac-80 83M0D1D
Equipment Dimensions:	29.9mm x 50.8mm x 3.3mm
Weight:	Less than 12 grams
Primary function of equipment:	Wireless network test

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 13 of 448

---

## 2.2. Scope of Test Program

### **Fluke Networks BCM43460 Enterprise Radio module**

The scope of the test program was to test the Fluke Networks BCM43460 Enterprise Radio module, 3x3 Spatial Multiplexing MIMO configurations in the frequency ranges 2400 - 2483.5 MHz and 5725 – 5850 MHz for compliance against FCC 47 CFR Part 15.247 and Industry Canada RSS-210 specifications.

### **FCC OET KDB Implementation**

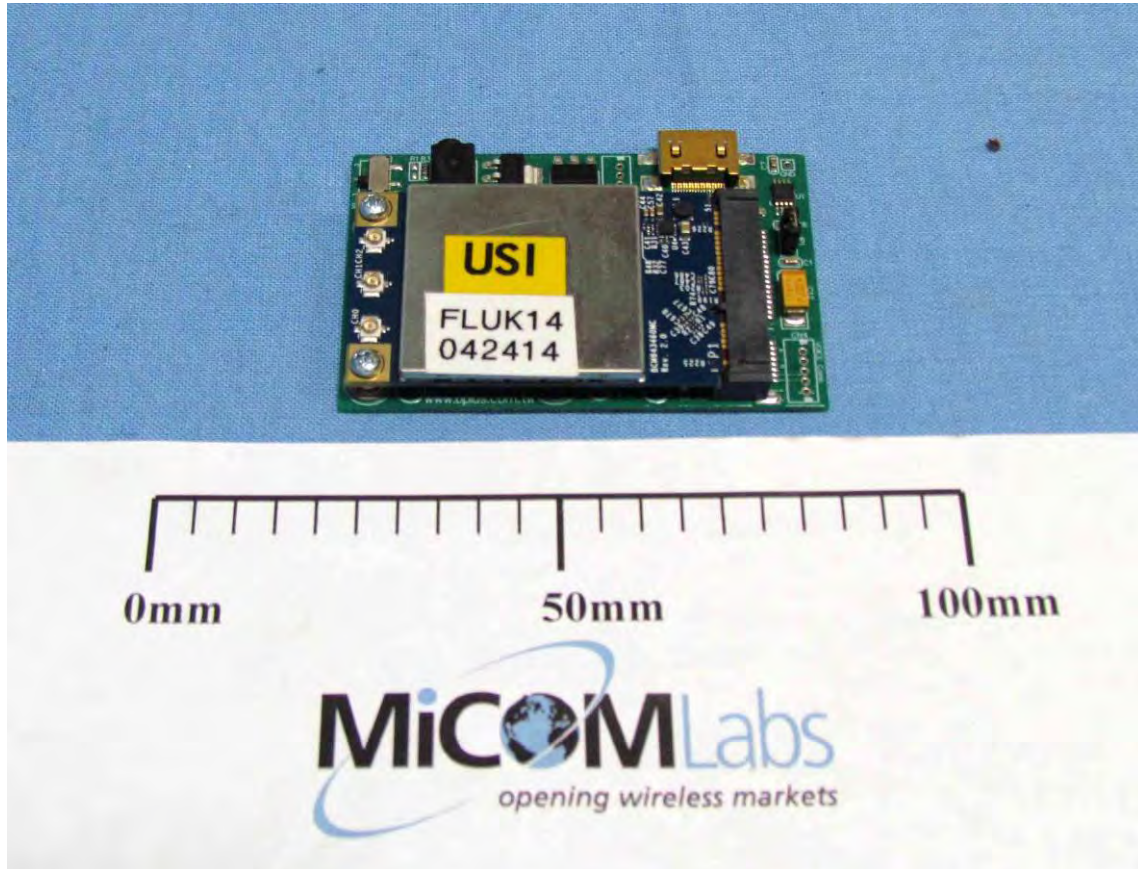
This test program implements the following FCC KDB – 662911 4/4/2011;

### ***Emissions Testing of Transmitters with Multiple Outputs in the Same Band***

The KDB document provides guidance for measurements of conducted output emissions of devices that employ a single transmitter with multiple outputs in the same band, with the outputs occupying the same or overlapping frequency ranges. It applies to EMC compliance measurements on devices that transmit on multiple antennas simultaneously in the same or overlapping frequency ranges through a coordinated process. Examples include, but are not limited to, devices employing beam forming or multiple-input and multiple-output (MIMO.) This guidance applies to both licensed and unlicensed devices wherever the FCC rules call for conducted output measurements. Guidance is provided for in-band, out-of-band and spurious emission measurements.

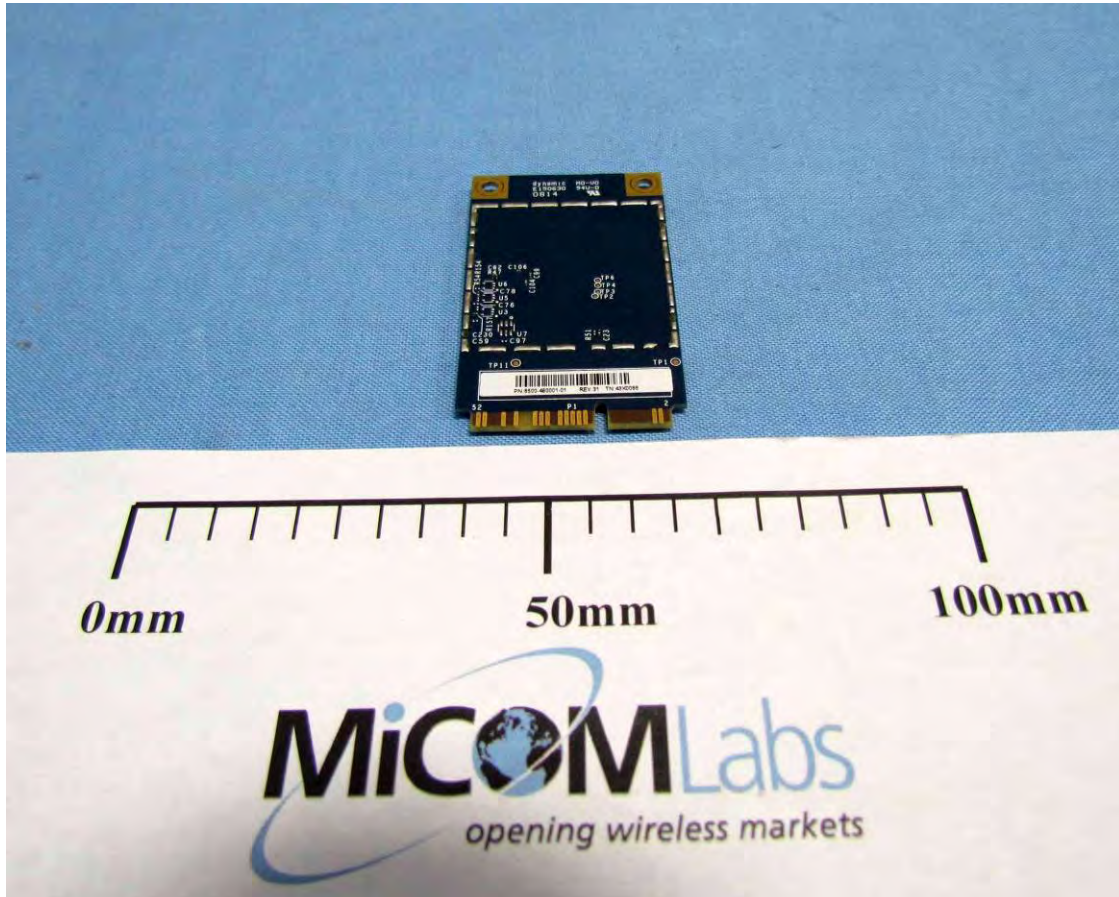
This guidance does not apply to the multiple transmitters included in a composite device, such as a device that combines an 802.11 modem with a cell phone in one enclosure with each driving its own antenna.

Fluke Networks BCM43460 Enterprise Radio module





Fluke Networks BCM43460 Enterprise Radio module





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 16 of 448

### 2.3. Equipment Model(s) and Serial Number(s)

Type (EUT/Support)	Equipment Description (Including Brand Name)	Mfr	Model No.	Serial No.
EUT	802.11 a/b/g/n/ac wireless module	Fluke Networks	BCM43460	XX
Support	Laptop PC	IBM	Thinkpad	None

### 2.4. Antenna Details

Manufacturer	Model	Type	Gain	Freq. Band
			dBi	MHz
Ethertronics	M830510	Chip – Omni (Internal)	1.1	2400 - 2500
			3.2	4900 - 5875
Centurion	WTS2450RPS MA	Dipole – Omni (External)	2.1	2400 - 2500
			2.6	5150 - 5350
			2.5	5470 - 5875
NanoGreen	IP04	PCB – Omni (Internal)	0.9	2400 - 2500
			3.1	5150 - 5350
			4.8	5470 - 5875
Wanshih Electric Co	WSS013 Dual Band Antenna	Dipole – Omni (External)	2.0	2400 - 2500
			2.0	4900 - 5875

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





## 2.5. Cabling and I/O Ports

Number and type of I/O ports

1. 10/100/1000 Ethernet (POE)
2. RF Antenna Connectors (x3) – UFL

## 2.6. Test Configurations

Testing was performed to determine the highest power level versus bit rate. The variant with the highest power was used to exercise the product.

Operational Mode(s) (802.11a/b/g/n/ac)	Variant	Data Rate with Highest Power	Frequencies (MHz)
2.4 GHz			
b	Legacy	1 MBit/s	2,412 2,437 2,462
g	Legacy	6 MBit/s	
n	HT-20	6.5 (MCS 0)	
	HT-40	13.5 (MCS 0)	2,422 2,437 2,452
5.8 GHz			
a	Legacy	6 MBit/s	5,745 5,785 5,825
n	HT-20	6.5 (MCS 0)	
	HT-40	13.5 (MCS 0)	5,755
ac	ac-40	13.5 (MCS 0)	5,795
	ac-80	29.3 (MCS 0)	5,775

Legacy – data rates for 802.11abg products

Results for the above configurations are provided in this report

.



## Antenna Test Configurations for Radiated Emissions

Results for the following configurations are provided in this report.

Radiated emissions testing was performed for all possible configurations on the integral antenna, the table below identifies all radiated testing completed on the device.

2,400 – 2483.5 MHz

5,725 – 5850 MHz

15.247	
802.11b,g, 802.11n HT-20	SE 2412
	SE 2437
	SE 2462
	BE 2390
	BE 2483.5
802.11n HT-40	SE 2412
	SE 2437
	SE 2462
	BE 2390
	BE 2483.5

15.247	
802.11a 802.11n HT-20	a SE 5745
	a SE 5785
	a SE 5825
802.11n HT-40	SE 5755
	SE 5795
	BE 5460
802.11ac-80	SE 5775
	BE 5460

KEY;-

SE – Spurious Emission  
BE – Band-Edge

## 2.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

## 2.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE

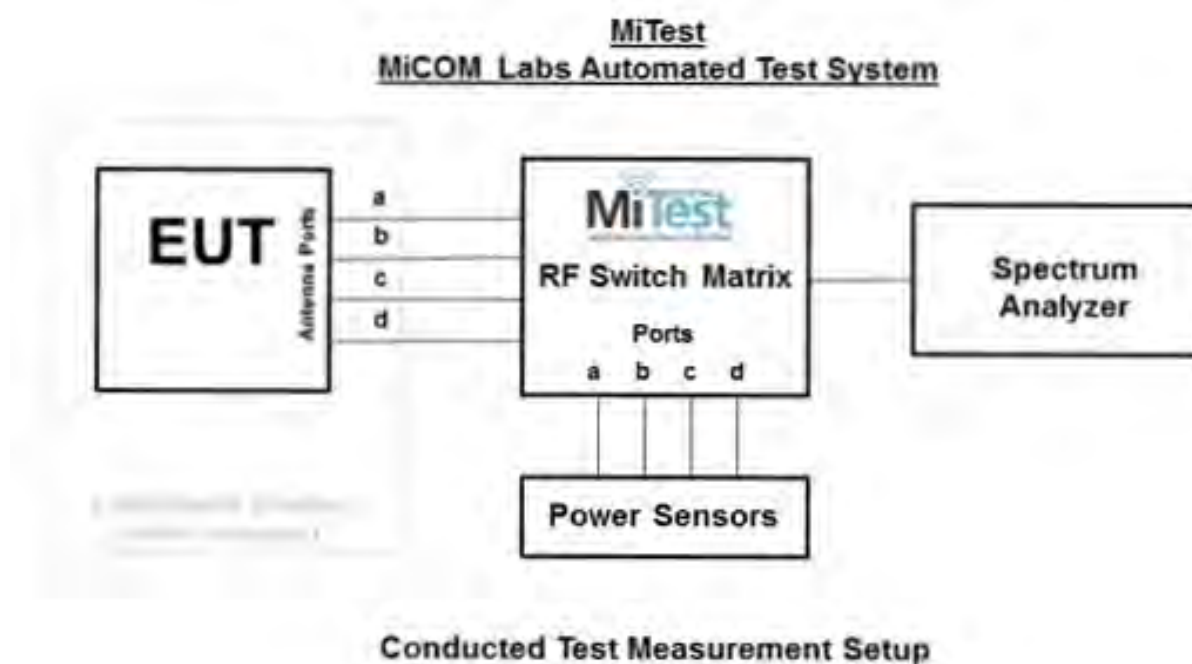
### **3. TEST EQUIPMENT CONFIGURATION(S)**

#### **3.1. Conducted RF Emission Test Set-up**

The following tests were performed using the conducted test set-up shown in the diagram below.

1. Section 6.1.1.1. 6 dB and 99% Bandwidth
2. Section 6.1.1.2. Peak Output Power
3. Section 6.1.1.3. Power Spectral Density
4. Section 6.1.1.4. Conducted Spurious Emissions

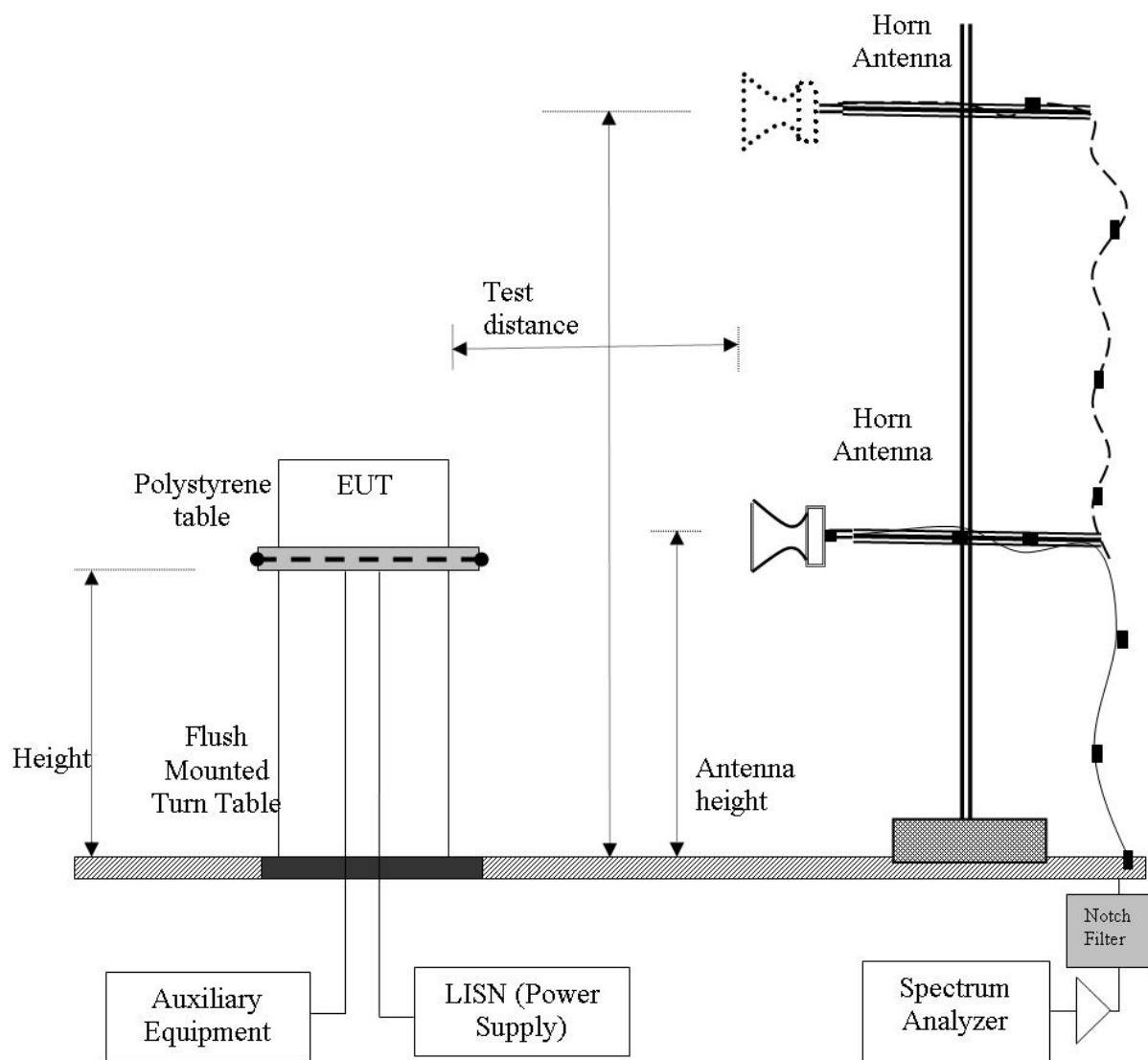
#### **Conducted Test Set-Up Pictorial Representation**



### 3.2. Radiated Spurious Emission Test Set-up > 1 GHz

The following tests were performed using the conducted test set-up shown in the diagram below.

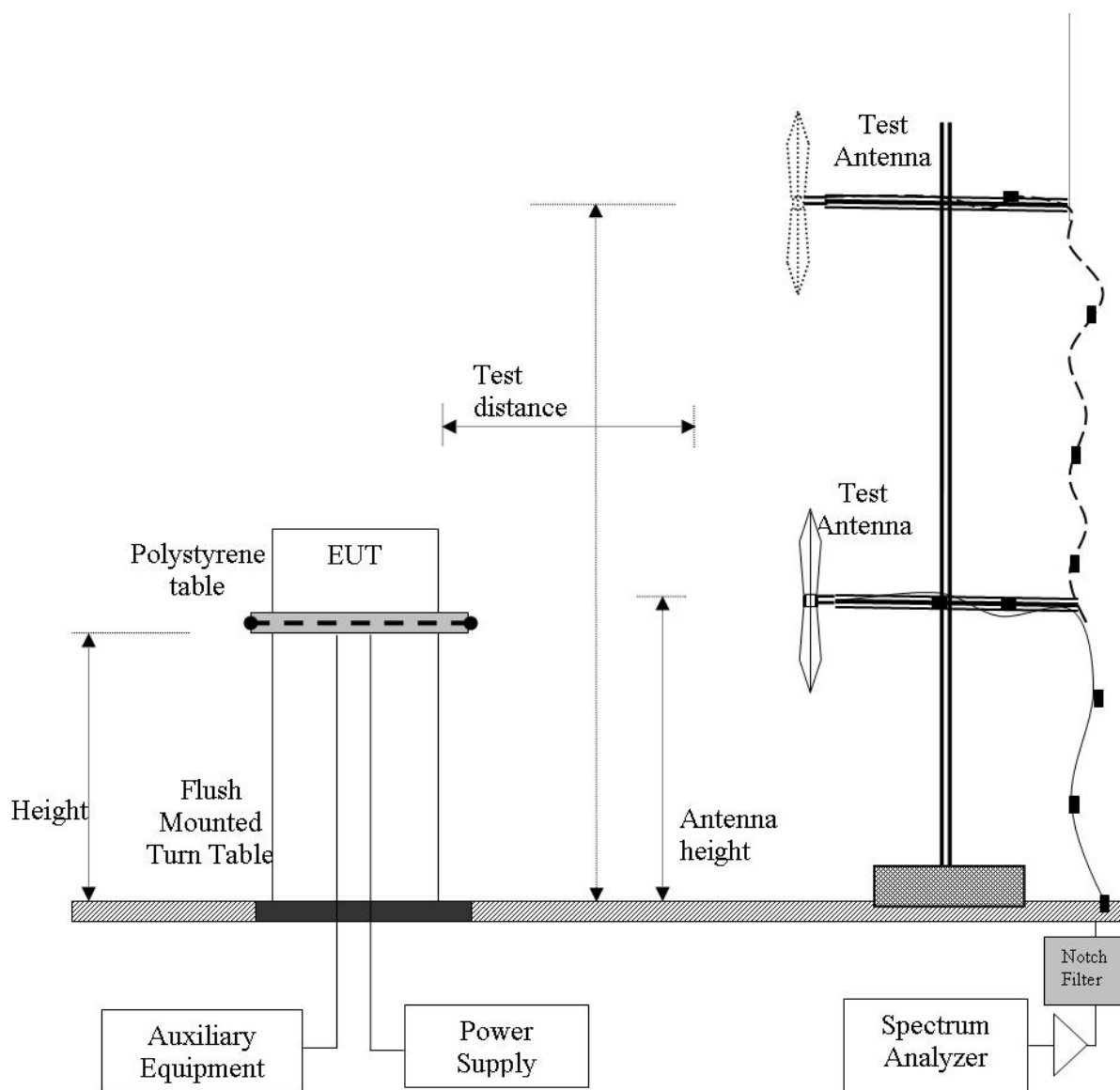
#### Radiated Emission Measurement Setup – Above 1 GHz



### 3.3. Digital Emissions Test Set-up (0.03 – 1 GHz)

The following tests were performed using the conducted test set-up shown in the diagram below.

#### Digital Emission Measurement Setup – Below 1 GHz

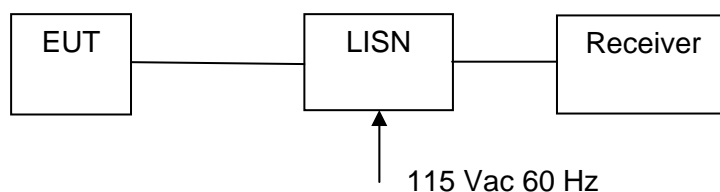


### 3.4. ac Wireline Emission Test Set-up

The following tests were performed using the conducted test set-up shown in the diagram below.

1. Section 5.1.3 ac Wireline Conducted Emissions

#### Test Measurement Set up



Measurement set up for AC Wireline Conducted Emissions Test



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 23 of 448

## 4. TEST SUMMARY

### List of Measurements

The following table represents the list of measurements required under the **FCC CFR47 Part 15.247** and **Industry Canada RSS-210** and **Industry Canada RSS-Gen**.

Section(s)	Test Items	Description	Condition	Result	Test Report Section
15.247(b)(3) 15.31(e) A8.4(4)	Peak Output Power Voltage Variation	Shall not exceed 1W  Variation of supply voltage 85 % -115 %	Conducted	Complies	5.1.1.1
15.247(e) A8.2	Peak Power Spectral Density	Shall not be greater than +8 dBm in any 3 kHz band	Conducted	Complies	5.1.1.2
15.247(a)(2) A8.2(1) 4.4	6 dB and 99 % Bandwidths	≥500 kHz	Conducted	Complies	5.1.1.3
15.247(d) 15.205 / 15.209 A8.5 2.2 4.7	Spurious Emissions (30MHz - 26 GHz b/g and 30 MHz – 40 GHz a)	The radiated emission in any 100 kHz of out-band shall be at least 20 dB below the highest in-band spectral density	Conducted	Complies	5.1.1.4

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 24 of 448

### List of Measurements (continued)

The following table represents the list of measurements required under the **FCC CFR47 Part 15.247**, **Industry Canada RSS-210**, and **Industry Canada RSS-Gen**.

Section(s)	Test Items	Description	Condition	Result	Test Report Section
15.247(d) 15.205 / 15.209 A8.5 2.2 2.6 4.7	Radiated Emissions	Restricted Bands	Radiated	Complies	5.1.2
	Transmitter Radiated Spurious Emissions	Emissions above 1 GHz		Complies	
	Radiated Band Edge	Band-edge results Peak Emissions		Complies	
15.205 / 15.209 2.2	Radiated Spurious Emissions	Emissions <1 GHz (30M-1 GHz)	Radiated	Complies	5.1.2.4
15.207 7.2.2	AC Wireline Conducted Emissions 150 kHz– 30 MHz	Conducted Emissions	Conducted	Complies	5.1.3

**Note 1:** Test results reported in this document relate only to the items tested

**Note 2:** The required tests demonstrated compliance as per client declaration of test configuration, monitoring methodology and associated pass/fail criteria

**Note 3:** Section 3.7 Equipment Modifications highlights the equipment modifications that were required to bring the product into compliance with the above test matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 25 of 448

## 5. TEST RESULTS

### 5.1. Device Characteristics

#### 5.1.1. Conducted Testing

##### 5.1.1.1. Peak Output Power

Conducted Test Conditions for Fundamental Emission Output Power			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Emission Output Power	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (a)(2)	Pressure (mBars):	999 - 1001
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.2 Fundamental Emission Output Power  KDB 662911 was implemented for In-band power measurements. The measure and sum technique was implemented in all cases.		

### Test Procedure for Fundamental Emission Output Power Measurement

Selection of the detector type is determined by the client, either a peak detector or average power detector can be selected however the same detector type **must** be used for each of the following tests;

- A). Output Power
- B).. Power Density
- C).. Conducted Spurious Emissions

#### Average Power

To measure average power a power meter measuring average power is implemented

#### Peak Detector

To measure peak power a spectrum analyser is used with the peak detector selected. The transmitter terminal of EUT was connected to the input of the spectrum analyser. The resolution filter bandwidth was set for 6 dB and the analyzers built-in power function used to integrate peak power over the EUT's 20 dB bandwidth.

#### Supporting Information

Calculated Power = A + G + 10 log (1/x) dBm  
A = Total Power [10 Log10 (10<sup>a/10</sup> + 10<sup>b/10</sup> + 10<sup>c/10</sup> + 10<sup>d/10</sup>)], G = Antenna Gain,  
x = Duty Cycle

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



15.247 (C) Operation with directional antenna gains greater than 6 dBi.

(2) In addition to the provisions in paragraphs (b)(1), (b)(3), (b)(4) and (c)(1)(i) of this section, transmitters operating in the 2400-2483.5 MHz band that emit multiple directional beams, simultaneously or sequentially, for the purpose of directing signals to individual receivers or to groups of receivers provided the emissions comply with the following:

- (i) Different information must be transmitted to each receiver
- (ii) If the transmitter employs an antenna system that emits multiple directional beams but does not do emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device, i.e., the sum of the power supplied to all antennas, antenna elements, staves, etc. and summed across all carriers or frequency channels, shall not exceed the limit specified in paragraph (b)(1) or (b)(3) of this section, as applicable. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as follows:
  - (A) The directional gain shall be calculated as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.
  - (B) A lower value for the directional gain than that calculated in paragraph (c) (2) (ii) (A) of this section will be accepted if sufficient evidence is presented, e.g., due to shading of the array or coherence loss in the beamforming.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 27 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11b	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	1 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	CCK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power $\Sigma$ Port(s) + DCCF Duty Cycle Correction Factor : +0.04 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
2412.0	21.93	22.65	22.09		27.05	30.00	-2.95	100.00
2437.0	21.36	23.13	21.88		27.00	30.00	-3.00	100.00
2462.0	21.62	22.50	22.01		26.87	30.00	-3.13	100.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 28 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11g	<b>Duty Cycle (%):</b>	94.0
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power $\Sigma$ Port(s) + DCCF Duty Cycle Correction Factor : +0.27 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
2412.0	19.21	20.35	19.71		24.82	30.00	-5.18	100.00
2437.0	18.60	19.25	18.91		23.97	30.00	-6.03	82.00
2462.0	18.68	19.35	18.92		24.03	30.00	-5.97	82.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 29 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	94.6
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power $\Sigma$ Port(s) + DCCF Duty Cycle Correction Factor : +0.22 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
2412.0	18.52	19.17	18.51		23.76	30.00	-6.24	82.00
2437.0	18.89	19.58	19.06		24.20	30.00	-5.80	82.00
2462.0	18.93	19.58	19.15		24.24	30.00	-5.76	82.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 30 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	85.6
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power $\Sigma$ Port(s) + DCCF Duty Cycle Correction Factor : +0.66 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
2422.0	18.91	19.67	19.12		24.69	30.00	-5.31	82.00
2437.0	18.94	19.53	19.03		24.62	30.00	-5.38	82.00
2452.0	18.69	19.64	19.03		24.58	30.00	-5.42	82.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 31 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11a	<b>Duty Cycle (%):</b>	94.0
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power $\Sigma$ Port(s) + DCCF Duty Cycle Correction Factor : +0.27 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
5745.0	16.02	16.62	15.86		21.22	30.00	-8.78	86.00
5785.0	16.32	16.73	15.83		21.35	30.00	-8.65	86.00
5825.0	16.39	16.52	15.96		21.34	30.00	-8.66	86.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 32 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11ac-40	<b>Duty Cycle (%):</b>	93.9
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power Σ Port(s) + DCCF Duty Cycle Correction Factor : +0.27 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
5755.0	15.18	15.30	14.83		20.15	30.00	-9.85	82.00
5795.0	16.53	16.53	16.23		21.47	30.00	-8.53	86.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 33 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11ac-80	<b>Duty Cycle (%):</b>	83.8
<b>Data Rate:</b>	29.3 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power Σ Port(s) + DCCF Duty Cycle Correction Factor : +0.76 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
5775.0	16.20	16.05	15.65		21.51	30.00	-8.49	86.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 34 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	94.5
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power $\Sigma$ Port(s) + DCCF Duty Cycle Correction Factor : +0.22 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
5745.0	16.00	16.56	15.80		21.15	30.00	-8.85	86.00
5785.0	16.40	16.86	15.81		21.39	30.00	-8.61	86.00
5825.0	16.52	16.52	15.98		21.36	30.00	-8.64	86.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 35 of 448

#### Equipment Configuration for Average Output Power

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	86.6
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Calculated Total Power Σ Port(s) + DCCF Duty Cycle Correction Factor : +0.6 dB	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	a	b	c	d	dBm	dBm	dB	
5755.0	15.90	16.09	15.58		21.26	30.00	-8.74	86.00
5795.0	16.23	16.12	15.61		21.39	30.00	-8.61	86.00

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	$\pm 1.33$ dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



### Antenna Type V's Power Setting

The following **Antenna Types V's Power Setting** tables consolidates the results of all tests performed on the Fluke Networks BCM43460 module to finalize the power setting for each antenna's tested;

#### M830510 Chip Antenna

Channel	2.4 GHz				5.8 GHz				
	b	g	HT-20	HT-40	a	HT-20	HT-40	ac-40	ac-80
Low	70	76	70	65	86	86	86	82	
Mid	67	82	82	82	86	86			86
High	67	67	67	58	86	86	86	86	

#### NANO PCB Antenna

Channel	2.4 GHz				5.8 GHz				
	b	g	HT-20	HT-40	a	HT-20	HT-40	ac-40	ac-80
Low	75	69	65	61	86	86	86	82	
Mid	80	82	82	82	86	86			86
High	80	62	56	40	86	86	86	86	

#### WSS013 Antenna

Channel	2.4 GHz				5.8 GHz				
	b	g	HT-20	HT-40	a	HT-20	HT-40	ac-40	ac-80
Low	84	73	68	63	86	86	86	82	
Mid	84	82	82	82	86	86			86
High	85	65	65	58	86	86	86	86	

#### WTS2450RPSMA Antenna

Channel	2.4 GHz				5.8 GHz				
	b	g	HT-20	HT-40	a	HT-20	HT-40	ac-40	ac-80
Low	80	76	70	77	86	86	86	82	
Mid	75	82	82	82	86	86			86
High	80	65	64	54	86	86	86	86	



## Specification

### Limits

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

**§15.247 (b) (3)** For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands: 1.0 watt.

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

15.247 (c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

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

**§15.31 (e)** For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

**§ RSS-210 A8.4(4)** For systems employing digital modulation techniques operating in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands the maximum peak conducted power shall not exceed 1 watt.

### Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-01 'Measuring RF Output Power'	0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 38 of 448

### 5.1.1.2. Power Spectral Density

Conducted Test Conditions for Power Spectral Density			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Power Spectral Density	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (e)	Pressure (mBars):	999 - 1001
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.3 Maximum Power Spectral Density Level in the Emission Bandwidth		
<b>Test Procedure for Power Spectral Density</b> The transmitter output was connected to a spectrum analyzer and the maximum spectral emission was measured in a 3 kHz bandwidth for each antenna chain. Sweep time was auto selected by the analyzer which was set for single sweep. Once the maximum emission was found the emission(s) were summed for each chain, see Determining Peak Power Spectral Density Compliance below.			
<b>Detector Selection</b> Selection of the analyzer detector is determined by the client, however the same detector type <b>must</b> be used for each of the following tests;  A). Output Power B).. Power Density C).. Conducted Spurious Emissions			
<b>Determining Peak Power Spectral Density Compliance</b>  For a MIMO device measurements were made on each antenna port and compared to the following limit;  Individual antenna limit = Power Spectral Density Limit – 10* Log (n); where n is the number of antenna ports  Individual measurements could potentially fail this limit however this does not imply a compliance failure at this stage. To determine compliance with PSD limits it involves summing the entire spectra across corresponding frequency bins on the various outputs. Consistency is maintained for any device with n transmitter outputs to be certain the individual outputs are all aligned with the same span and same number of points. In this instance, the linear power spectrum value within the first spectral bin of antenna 0 is summed with that in the first spectral bin of antenna 1, and the first spectral bin of antenna 2, and so on up to the Nth output to obtain the true value for the first frequency bin of the summed spectrum. The summed spectrum value for each frequency bin is computed in this fashion.  In the results matrix the column “Amplitude Summation” is the summed plot with any duty cycle offset included. The summed plot is a true representation of system performance and the key to determining compliance.			
<b>Supporting Information</b> Calculated Power = A + 10 log (1/x) dBm x = Duty Cycle  Limit Line: KDB 662911 was implemented for In-band power spectral density (PSD) measurements - Option (2) measure and subtract 10 log (n) dB from the limit for devices with multiple RF ports.			

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 39 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11b	<b>Duty Cycle (%):</b>	99.0
<b>Data Rate:</b>	1 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	CCK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.04 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
2412.0	<a href="#">-10.670</a>	<a href="#">-10.325</a>	<a href="#">-10.462</a>		<a href="#">-5.880</a>	8.0	-13.9
2437.0	<a href="#">-10.776</a>	<a href="#">-10.002</a>	<a href="#">-10.767</a>		<a href="#">-6.423</a>	8.0	-14.4
2462.0	<a href="#">-10.839</a>	<a href="#">-9.945</a>	<a href="#">-10.539</a>		<a href="#">-6.084</a>	8.0	-14.1

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 40 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11g	<b>Duty Cycle (%):</b>	94.0
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Measurement Results							
Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.27 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
2412.0	<a href="#">-14.959</a>	<a href="#">-14.096</a>	<a href="#">-14.973</a>		<a href="#">-9.905</a>	8.0	-17.9
2437.0	<a href="#">-16.146</a>	<a href="#">-15.267</a>	<a href="#">-15.950</a>		<a href="#">-10.770</a>	8.0	-18.7
2462.0	<a href="#">-15.002</a>	<a href="#">-15.119</a>	<a href="#">-14.902</a>		<a href="#">-10.144</a>	8.0	-18.1

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 41 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	94.6
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.24 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
2412.0	<a href="#">-16.245</a>	<a href="#">-15.917</a>	<a href="#">-15.648</a>		<a href="#">-11.212</a>	8.0	-19.2
2437.0	<a href="#">-15.790</a>	<a href="#">-14.690</a>	<a href="#">-15.342</a>		<a href="#">-10.572</a>	8.0	-18.5
2462.0	<a href="#">-15.134</a>	<a href="#">-14.537</a>	<a href="#">-14.945</a>		<a href="#">-10.087</a>	8.0	-18.1

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 42 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	85.6
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Measurement Results							
Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.67 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
2422.0	<a href="#">-18.481</a>	<a href="#">-17.796</a>	<a href="#">-18.100</a>		<a href="#">-12.699</a>	8.0	-20.7
2437.0	<a href="#">-19.016</a>	<a href="#">-18.121</a>	<a href="#">-18.481</a>		<a href="#">-13.229</a>	8.0	-21.2
2452.0	<a href="#">-18.163</a>	<a href="#">-16.995</a>	<a href="#">-18.142</a>		<a href="#">-12.286</a>	8.0	-20.3

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 43 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11a	<b>Duty Cycle (%):</b>	94.0
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Measurement Results							
Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.27 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
5745.0	<a href="#">-17.142</a>	<a href="#">-16.482</a>	<a href="#">-17.198</a>		<a href="#">-12.104</a>	8.0	-20.1
5785.0	<a href="#">-18.121</a>	<a href="#">-17.936</a>	<a href="#">-18.722</a>		<a href="#">-13.663</a>	8.0	-21.6
5825.0	<a href="#">-18.080</a>	<a href="#">-18.142</a>	<a href="#">-18.289</a>		<a href="#">-13.346</a>	8.0	-21.3

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 44 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11ac-40	<b>Duty Cycle (%):</b>	93.9
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Measurement Results							
Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.27 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
5755.0	<a href="#">-22.068</a>	<a href="#">-21.810</a>	<a href="#">-21.468</a>		<a href="#">-16.868</a>	8.0	-24.8
5795.0	<a href="#">-21.591</a>	<a href="#">-21.560</a>	<a href="#">-21.747</a>		<a href="#">-16.841</a>	8.0	-24.8

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 45 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11ac-80	<b>Duty Cycle (%):</b>	83.8
<b>Data Rate:</b>	29.3 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Measurement Results							
Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.77 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
5775.0	<a href="#">-25.705</a>	<a href="#">-25.754</a>	<a href="#">-26.647</a>		<a href="#">-20.626</a>	8.0	-28.6

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 46 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	94.5
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Measurement Results							
Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.25 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
5745.0	<a href="#">-18.901</a>	<a href="#">-18.267</a>	<a href="#">-18.722</a>		<a href="#">-13.930</a>	8.0	-21.9
5785.0	<a href="#">-18.416</a>	<a href="#">-18.059</a>	<a href="#">-19.108</a>		<a href="#">-13.876</a>	8.0	-21.8
5825.0	<a href="#">-17.559</a>	<a href="#">-18.352</a>	<a href="#">-18.611</a>		<a href="#">-13.927</a>	8.0	-21.9

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 47 of 448

#### Equipment Configuration for Power Spectral Density - Average

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	86.6
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	0.90
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured Power Spectral Density				Amplitude Summation + DCCF Duty Cycle Correction Factor : +0.62 dB	Limit	Margin
	Port(s) (dBm/3KHz)						
MHz	a	b	c	d	dBm/3KHz	dBm/3KHz	dB
5755.0	<a href="#">-22.166</a>	<a href="#">-21.716</a>	<a href="#">-22.068</a>		<a href="#">-17.231</a>	8.0	-25.2
5795.0	<a href="#">-22.133</a>	<a href="#">-21.747</a>	<a href="#">-22.469</a>		<a href="#">-17.184</a>	8.0	-25.2

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 48 of 448

---

## Specification

### Peak Power Spectral Density Limits

**§15.247(e)** For digitally modulated systems, 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

**RSS-210 §A8.2(2)** The transmitter power spectral density (into the antenna) shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration.

## Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-01 'Measuring RF Output Power'	0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117

---

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 49 of 448

---

#### 5.1.1.3. 6 dB and 99 % Bandwidth

Conducted Test Conditions for 6 dB and 99% Bandwidth			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	6 dB and 99 % Bandwidth	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (a)(2)	Pressure (mBars):	999 - 1001
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.1 Emission Bandwidth		
<b>Test Procedure for 6 dB and 99% Bandwidth Measurement</b> The bandwidth at 6 dB and 99 % was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.			

---

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 50 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11b	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	1 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	CCK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
2412.0	<a href="#">9.218</a>	<a href="#">9.218</a>	<a href="#">9.699</a>		9.699	9.218	≥500.0	-8.72
2437.0	<a href="#">9.619</a>	<a href="#">9.780</a>	<a href="#">9.699</a>		9.780	9.619	≥500.0	-9.12
2462.0	<a href="#">9.218</a>	<a href="#">9.699</a>	<a href="#">9.218</a>		9.699	9.218	≥500.0	-8.72

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
2412.0	<a href="#">13.547</a>	<a href="#">13.948</a>	<a href="#">13.707</a>		13.948		
2437.0	<a href="#">12.986</a>	<a href="#">14.269</a>	<a href="#">13.467</a>		14.269		
2462.0	<a href="#">13.066</a>	<a href="#">13.707</a>	<a href="#">13.547</a>		13.707		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 51 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11g	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
2412.0	<a href="#">15.872</a>	<a href="#">15.872</a>	<a href="#">15.872</a>		15.872	15.872	≥500.0	-15.37
2437.0	<a href="#">16.273</a>	<a href="#">15.952</a>	<a href="#">16.513</a>		16.513	15.952	≥500.0	-15.45
2462.0	<a href="#">15.872</a>	<a href="#">15.872</a>	<a href="#">15.872</a>		15.872	15.872	≥500.0	-15.37

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
2412.0	<a href="#">20.601</a>	<a href="#">22.846</a>	<a href="#">22.124</a>		22.846		
2437.0	<a href="#">20.040</a>	<a href="#">19.880</a>	<a href="#">20.441</a>		20.441		
2462.0	<a href="#">19.719</a>	<a href="#">19.399</a>	<a href="#">19.800</a>		19.800		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 52 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
2412.0	<a href="#">16.513</a>	<a href="#">17.074</a>	<a href="#">16.754</a>		17.074	16.513	≥500.0	-16.01
2437.0	<a href="#">17.395</a>	<a href="#">17.154</a>	<a href="#">17.796</a>		17.796	17.154	≥500.0	-16.65
2462.0	<a href="#">16.513</a>	<a href="#">17.074</a>	<a href="#">17.154</a>		17.154	16.513	≥500.0	-16.01

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
2412.0	<a href="#">19.960</a>	<a href="#">19.960</a>	<a href="#">19.800</a>		19.960		
2437.0	<a href="#">21.242</a>	<a href="#">21.483</a>	<a href="#">21.884</a>		21.884		
2462.0	<a href="#">21.242</a>	<a href="#">20.762</a>	<a href="#">21.242</a>		21.242		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 53 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	86
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
2422.0	<a href="#">35.431</a>	<a href="#">35.431</a>	<a href="#">34.148</a>		35.431	34.148	≥500.0	-33.65
2437.0	<a href="#">36.232</a>	<a href="#">36.072</a>	<a href="#">36.072</a>		36.232	36.072	≥500.0	-35.57
2452.0	<a href="#">36.072</a>	<a href="#">36.713</a>	<a href="#">36.072</a>		36.713	36.072	≥500.0	-35.57

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
2422.0	<a href="#">44.409</a>	<a href="#">42.806</a>	<a href="#">42.485</a>		44.409		
2437.0	<a href="#">48.898</a>	<a href="#">48.417</a>	<a href="#">50.020</a>		50.020		
2452.0	<a href="#">45.210</a>	<a href="#">51.784</a>	<a href="#">50.180</a>		51.784		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 54 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11a	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
5745.0	<a href="#">15.872</a>	<a href="#">15.311</a>	<a href="#">15.311</a>		15.872	15.311	≥500.0	-14.81
5785.0	<a href="#">16.513</a>	<a href="#">15.952</a>	<a href="#">16.513</a>		16.513	15.952	≥500.0	-15.45
5825.0	<a href="#">15.952</a>	<a href="#">15.952</a>	<a href="#">16.112</a>		16.112	15.952	≥500.0	-15.45

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
5745.0	<a href="#">25.812</a>	<a href="#">27.735</a>	<a href="#">26.052</a>		27.735		
5785.0	<a href="#">17.635</a>	<a href="#">17.635</a>	<a href="#">17.475</a>		17.635		
5825.0	<a href="#">17.635</a>	<a href="#">17.315</a>	<a href="#">17.234</a>		17.635		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 55 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11ac-40	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
5755.0	<a href="#">36.232</a>	<a href="#">36.393</a>	<a href="#">35.431</a>		36.393	35.431	≥500.0	-34.93
5795.0	<a href="#">36.072</a>	<a href="#">35.912</a>	<a href="#">35.912</a>		36.072	35.912	≥500.0	-35.41

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
	MHz	a	b	c		d	
5755.0	<a href="#">44.088</a>	<a href="#">41.844</a>	<a href="#">41.042</a>		44.088		
5795.0	<a href="#">47.134</a>	<a href="#">41.202</a>	<a href="#">43.928</a>		47.134		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 56 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11ac-80	<b>Duty Cycle (%):</b>	84
<b>Data Rate:</b>	29.3 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
5775.0	<a href="#">75.992</a>	<a href="#">75.992</a>	<a href="#">75.992</a>		75.992	75.992	≥500.0	-75.49

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
5775.0	<a href="#">83.046</a>	<a href="#">76.633</a>	<a href="#">78.878</a>		83.046		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 57 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
MHz	a	b	c	d				
5745.0	<a href="#">17.395</a>	<a href="#">17.635</a>	<a href="#">17.074</a>		17.635	17.074	≥500.0	-16.57
5785.0	<a href="#">17.395</a>	<a href="#">17.475</a>	<a href="#">17.074</a>		17.475	17.074	≥500.0	-16.57
5825.0	<a href="#">17.395</a>	<a href="#">17.315</a>	<a href="#">16.754</a>		17.395	16.754	≥500.0	-16.25

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
MHz	a	b	c	d			
5745.0	<a href="#">18.838</a>	<a href="#">18.838</a>	<a href="#">18.437</a>		18.838		
5785.0	<a href="#">18.918</a>	<a href="#">18.758</a>	<a href="#">18.677</a>		18.918		
5825.0	<a href="#">19.238</a>	<a href="#">18.517</a>	<a href="#">18.677</a>		19.238		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 58 of 448

#### Equipment Configuration for 6 dB & 99% Bandwidth

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	87
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency MHz	Measured 6 dB Bandwidth (MHz)				6 dB Bandwidth (MHz)		Limit	Lowest Margin
	Port(s)				Highest	Lowest	KHz	MHz
	a	b	c	d				
5755.0	<a href="#">36.393</a>	<a href="#">36.232</a>	<a href="#">35.431</a>		36.393	35.431	≥500.0	-34.93
5795.0	<a href="#">36.232</a>	<a href="#">35.752</a>	<a href="#">35.431</a>		36.232	35.431	≥500.0	-34.93

Test Frequency	Measured 99% Bandwidth (MHz)				Maximum 99% Bandwidth (MHz)		
	Port(s)						
	MHz	a	b	c		d	
5755.0	<a href="#">41.683</a>	<a href="#">39.118</a>	<a href="#">39.279</a>		41.683		
5795.0	<a href="#">46.172</a>	<a href="#">41.363</a>	<a href="#">41.844</a>		46.172		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 59 of 448

---

## Specification

### Limits

#### **§15.247 (a)(2) & RSS-210 §A8.2(1)**

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

**§ IC RSS-Gen 4.4.1 Occupied Bandwidth** When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

**§ IC RSS-Gen 4.4.2 6 dB Bandwidth** Where indicated, the 6 dB bandwidth is measured at the points when the spectral density of the signal is 6 dB down from the in-band spectral density of the modulated signal, with the transmitter modulated by a representative signal.

### Traceability

Test Equipment Used
0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 60 of 448

#### 5.1.1.4. Conducted Spurious Emissions

Conducted Test Conditions for Transmitter Conducted Spurious and Band-Edge Emissions			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Max Unwanted Emission Levels	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.247 (d)	Pressure (mBars):	999 - 1001
Reference Document(s):	KDB 558074 - D01 DTS Measurement Guidance v01: Section 5.4 Maximum Unwanted Emission Levels		
<p><b>Test Procedure for Transmitter Conducted Spurious and Band-Edge Emissions Measurement</b></p> <p>Transmitter Conducted Spurious and Band-Edge emissions were measured with a spectrum analyzer connected to the antenna terminal using one of the following limits;</p> <p>1).. Peak Detector - 20 dB below the highest in-band spectral density (i.e. 20 dBc)</p> <p>2).. Average Detector – 30 dB below the highest in-band spectral density (i.e. 30 dBc)</p> <p>Selection of the analyzer detector is determined by the client, however the same detector type <b>must</b> be used for each of the following tests;</p> <p>A). Output Power</p> <p>B).. Power Density</p> <p>C).. Conducted Spurious Emissions</p> <p>Measurements were made while EUT was operating in transmit mode of operation at the appropriate centre frequency closest to the band-edge. Emissions were maximized during the measurement and limits derived from the peak spectral power and drawn on each plot.</p>			

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 61 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11b	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	1 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	CCK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2412.0 MHz					
<b>Band-Edge Frequency:</b>	2400.0 MHz					
<b>Test Frequency Range:</b>	2350.0 - 2422.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-37.03</a>	-25.52	2401.50			-1.500
<b>b</b>	<a href="#">-36.12</a>	-25.31	2401.40			-1.400
<b>c</b>	<a href="#">-35.35</a>	-25.98	2401.40			-1.400

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

Per KDB 558074 D01 DTS Meas Guidance

Amended Limit – Channel found to contain the maximum PSD level can be used to establish the reference level.

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 62 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11g	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2412.0 MHz					
<b>Band-Edge Frequency:</b>	2400.0 MHz					
<b>Test Frequency Range:</b>	2350.0 - 2422.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-27.42</a>	-25.32	2395.90	<a href="#">-27.42</a>	2401.70	-1.700
<b>b</b>	<a href="#">-26.40</a>	-25.32	2395.30	<a href="#">-26.40</a>	2400.80	-0.800
<b>c</b>	<a href="#">-27.14</a>	-25.32	2395.30	<a href="#">-27.14</a>	2401.40	-1.400

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

Per KDB 558074 D01 DTS Meas Guidance

Amended Limit – Channel found to contain the maximum PSD level can be used to establish the reference level.

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 63 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2412.0 MHz					
<b>Band-Edge Frequency:</b>	2400.0 MHz					
<b>Test Frequency Range:</b>	2350.0 - 2422.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-27.20</a>	-25.31	2395.00	<a href="#">-27.20</a>	2401.10	-1.100
<b>b</b>	<a href="#">-26.43</a>	-25.31	2394.00	<a href="#">-26.43</a>	2400.80	-0.800
<b>c</b>	<a href="#">-26.66</a>	-25.31	2395.00	<a href="#">-26.66</a>	2401.10	-1.100

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 64 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	86
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2422.0 MHz					
<b>Band-Edge Frequency:</b>	2400.0 MHz					
<b>Test Frequency Range:</b>	2292.0 - 2442.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-27.24</a>	-25.31	2384.30	<a href="#">-27.24</a>	2402.60	-2.600
<b>b</b>	<a href="#">-26.87</a>	-25.31	2384.00	<a href="#">-26.87</a>	2402.60	-2.600
<b>c</b>	<a href="#">-27.02</a>	-25.31	2383.70	<a href="#">-27.02</a>	2402.30	-2.300

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 65 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11a	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5745.0 MHz					
<b>Band-Edge Frequency:</b>	5725.0 MHz					
<b>Test Frequency Range:</b>	5683.0 - 5755.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-37.90</a>	-33.99	5728.20			-3.200
<b>b</b>	<a href="#">-37.28</a>	-33.67	5727.60			-2.600
<b>c</b>	<a href="#">-38.18</a>	-33.96	5728.30			-3.300

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

Per KDB 558074 D01 DTS Meas Guidance

Amended Limit – Channel found to contain the maximum PSD level can be used to establish the reference level.

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 66 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11ac-40	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5755.0 MHz					
<b>Band-Edge Frequency:</b>	5725.0 MHz					
<b>Test Frequency Range:</b>	5625.0 - 5775.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-36.91</a>	-33.67	5717.30	<a href="#">-36.91</a>	5733.80	-8.800
<b>b</b>	<a href="#">-38.21</a>	-33.67	5720.90	<a href="#">-38.21</a>	5735.30	-10.300
<b>c</b>	<a href="#">-37.78</a>	-33.67	5722.10	<a href="#">-37.78</a>	5735.60	-10.600

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

Per KDB 558074 D01 DTS Meas Guidance

Amended Limit – Channel found to contain the maximum PSD level can be used to establish the reference level.

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 67 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11ac-80	<b>Duty Cycle (%):</b>	84
<b>Data Rate:</b>	29.3 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5775.0 MHz					
<b>Band-Edge Frequency:</b>	5725.0 MHz					
<b>Test Frequency Range:</b>	5600.0 - 5820.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-33.99</a>	-33.67	5683.30	<a href="#">-33.99</a>	5725.70	-0.700
<b>b</b>	<a href="#">-34.74</a>	-33.67	5685.50	<a href="#">-34.74</a>	5727.40	-2.400
<b>c</b>	<a href="#">-34.03</a>	-33.67	5679.40	<a href="#">-34.03</a>	5725.70	-0.700

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 68 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5745.0 MHz					
<b>Band-Edge Frequency:</b>	5725.0 MHz					
<b>Test Frequency Range:</b>	5683.0 - 5755.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-35.43</a>	-34.47	5726.00			-1.000
<b>b</b>	<a href="#">-34.98</a>	-33.95	5726.10			-1.100
<b>c</b>	<a href="#">-36.61</a>	-34.35	5727.30			-2.300

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 69 of 448

#### Equipment Configuration for Conducted Low Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	87
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5755.0 MHz					
<b>Band-Edge Frequency:</b>	5725.0 MHz					
<b>Test Frequency Range:</b>	5625.0 - 5775.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M1 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-34.06</a>	-33.67	5715.50	<a href="#">-34.06</a>	5725.40	-0.400
<b>b</b>	<a href="#">-35.26</a>	-33.67	5716.70	<a href="#">-35.26</a>	5727.50	-2.500
<b>c</b>	<a href="#">-35.23</a>	-33.67	5717.00	<a href="#">-35.23</a>	5728.70	-3.700

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 70 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11b	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	1 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	CCK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2462.0 MHz					
<b>Band-Edge Frequency:</b>	2483.5 MHz					
<b>Test Frequency Range:</b>	2452.0 - 2524.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-57.54</a>	-25.98	2472.60			-10.900
<b>b</b>	<a href="#">-51.74</a>	-25.32	2472.60			-10.900
<b>c</b>	<a href="#">-57.34</a>	-25.86	2472.60			-10.900

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 71 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11g	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2462.0 MHz					
<b>Band-Edge Frequency:</b>	2483.5 MHz					
<b>Test Frequency Range:</b>	2452.0 - 2524.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-35.31</a>	-30.84	2481.10			-2.400
<b>b</b>	<a href="#">-36.39</a>	-31.08	2481.10			-2.400
<b>c</b>	<a href="#">-36.01</a>	-31.17	2481.10			-2.400

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 72 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2462.0 MHz					
<b>Band-Edge Frequency:</b>	2483.5 MHz					
<b>Test Frequency Range:</b>	2452.0 - 2524.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-32.63</a>	-30.78	2482.70			-0.800
<b>b</b>	<a href="#">-32.76</a>	-30.56	2482.40			-1.100
<b>c</b>	<a href="#">-32.84</a>	-30.81	2482.70			-0.800

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 73 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	86
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2452.0 MHz					
<b>Band-Edge Frequency:</b>	2483.5 MHz					
<b>Test Frequency Range:</b>	2432.0 - 2582.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-29.54</a>	-25.32	2493.90	<a href="#">-29.54</a>	2474.40	-9.100
<b>b</b>	<a href="#">-27.52</a>	-25.32	2496.30	<a href="#">-27.52</a>	2477.70	-5.800
<b>c</b>	<a href="#">-28.38</a>	-25.32	2494.80	<a href="#">-28.38</a>	2478.00	-5.500

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 74 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11a	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5825.0 MHz					
<b>Band-Edge Frequency:</b>	5850.0 MHz					
<b>Test Frequency Range:</b>	5815.0 - 5887.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-51.19</a>	-34.20	5842.80			-7.200
<b>b</b>	<a href="#">-51.36</a>	-34.11	5842.60			-7.400
<b>c</b>	<a href="#">-50.12</a>	-34.24	5842.00			-8.000

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 75 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11ac-40	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5795.0 MHz					
<b>Band-Edge Frequency:</b>	5850.0 MHz					
<b>Test Frequency Range:</b>	5775.0 - 5925.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-49.72</a>	-37.79	5837.80			-12.200
<b>b</b>	<a href="#">-50.36</a>	-37.70	5834.80			-15.200
<b>c</b>	<a href="#">-46.82</a>	-37.49	5837.80			-12.200

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 76 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11ac-80	<b>Duty Cycle (%):</b>	84
<b>Data Rate:</b>	29.3 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5775.0 MHz					
<b>Band-Edge Frequency:</b>	5850.0 MHz					
<b>Test Frequency Range:</b>	5735.0 - 5955.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-36.47</a>	-34.11	5868.10	<a href="#">-36.47</a>	5838.60	-11.400
<b>b</b>	<a href="#">-37.61</a>	-34.11	5866.80	<a href="#">-37.61</a>	5822.30	-27.700
<b>c</b>	<a href="#">-35.54</a>	-34.11	5873.40	<a href="#">-35.54</a>	5838.60	-11.400

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 77 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5825.0 MHz					
<b>Band-Edge Frequency:</b>	5850.0 MHz					
<b>Test Frequency Range:</b>	5815.0 - 5887.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-45.64</a>	-34.43	5844.40			-5.600
<b>b</b>	<a href="#">-46.72</a>	-34.57	5844.10			-5.900
<b>c</b>	<a href="#">-46.20</a>	-34.61	5844.10			-5.900

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 78 of 448

#### Equipment Configuration for Conducted High Band-Edge Emissions - Average

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	87
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5795.0 MHz					
<b>Band-Edge Frequency:</b>	5850.0 MHz					
<b>Test Frequency Range:</b>	5775.0 - 5925.0 MHz					
Port(s)	Band-Edge Markers and Limit			Amended Limit		Margin (MHz)
	M3 Amplitude (dBm)	Plot Limit (dBm)	M2 Frequency (MHz)	Amplitude (dBm)	M2A Frequency (MHz)	
<b>a</b>	<a href="#">-51.46</a>	-38.45	5837.20			-12.800
<b>b</b>	<a href="#">-52.54</a>	-38.49	5834.20			-15.800
<b>c</b>	<a href="#">-49.32</a>	-38.66	5835.10			-14.900

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 79 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11b	<b>Duty Cycle (%):</b>	99
<b>Data Rate:</b>	1 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	CCK	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
2412.0	30.0 - 26000.0	<a href="#">-67.504</a>	-41.82	<a href="#">-67.504</a>	-40.43	<a href="#">-67.504</a>	-40.94		
2437.0	30.0 - 26000.0	<a href="#">-67.504</a>	-41.91	<a href="#">-66.480</a>	-40.13	<a href="#">-67.504</a>	-41.41		
2462.0	30.0 - 26000.0	<a href="#">-67.504</a>	-42.18	<a href="#">-67.504</a>	-40.52	<a href="#">-67.504</a>	-41.54		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 80 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11g	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
2412.0	30.0 - 26000.0	<a href="#">-67.504</a>	-43.69	<a href="#">-67.504</a>	-42.98	<a href="#">-67.504</a>	-43.73		
2437.0	30.0 - 26000.0	<a href="#">-67.504</a>	-42.67	<a href="#">-67.504</a>	-41.97	<a href="#">-67.504</a>	-42.47		
2462.0	30.0 - 26000.0	<a href="#">-67.504</a>	-42.99	<a href="#">-67.504</a>	-42.42	<a href="#">-67.504</a>	-42.81		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 81 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
2412.0	30.0 - 26000.0	<a href="#">-68.663</a>	-43.66	<a href="#">-67.504</a>	-42.41	<a href="#">-67.504</a>	-43.00		
2437.0	30.0 - 26000.0	<a href="#">-67.504</a>	-41.82	<a href="#">-67.504</a>	-41.34	<a href="#">-67.504</a>	-41.79		
2462.0	30.0 - 26000.0	<a href="#">-67.504</a>	-42.37	<a href="#">-67.504</a>	-41.89	<a href="#">-67.504</a>	-42.28		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 82 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	86
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
2422.0	30.0 - 26000.0	<a href="#">-67.504</a>	-43.82	<a href="#">-66.480</a>	-43.06	<a href="#">-67.504</a>	-43.65		
2437.0	30.0 - 26000.0	<a href="#">-68.663</a>	-39.95	<a href="#">-67.504</a>	-39.25	<a href="#">-67.504</a>	-39.70		
2452.0	30.0 - 26000.0	<a href="#">-67.504</a>	-40.04	<a href="#">-67.504</a>	-38.92	<a href="#">-67.504</a>	-39.49		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 83 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11a	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	6 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
5745.0	30.0 - 26000.0	<a href="#">-62.643</a>	-47.63	<a href="#">-62.643</a>	-46.87	<a href="#">-63.286</a>	-47.99		
5785.0	30.0 - 26000.0	<a href="#">-63.286</a>	-45.30	<a href="#">-62.044</a>	-44.87	<a href="#">-62.643</a>	-45.41		
5825.0	30.0 - 26000.0	<a href="#">-62.044</a>	-44.65	<a href="#">-61.483</a>	-44.67	<a href="#">-62.044</a>	-45.42		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 84 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11ac-40	<b>Duty Cycle (%):</b>	94
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
5755.0	30.0 - 26000.0	<a href="#">-63.982</a>	-43.26	<a href="#">-62.643</a>	-43.27	<a href="#">-63.286</a>	-43.43		
5795.0	30.0 - 26000.0	<a href="#">-63.286</a>	-47.04	<a href="#">-61.483</a>	-47.07	<a href="#">-62.643</a>	-47.32		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 85 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11ac-80	<b>Duty Cycle (%):</b>	84
<b>Data Rate:</b>	29.3 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
5775.0	30.0 - 26000.0	<a href="#">-63.286</a>	-42.03	<a href="#">-61.483</a>	-42.14	<a href="#">-62.643</a>	-42.38		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 86 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11n HT-20	<b>Duty Cycle (%):</b>	95
<b>Data Rate:</b>	6.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
5745.0	30.0 - 26000.0	<a href="#">-63.982</a>	-49.21	<a href="#">-63.286</a>	-48.75	<a href="#">-63.286</a>	-49.78		
5785.0	30.0 - 26000.0	<a href="#">-63.286</a>	-45.11	<a href="#">-62.643</a>	-44.54	<a href="#">-62.643</a>	-45.27		
5825.0	30.0 - 26000.0	<a href="#">-62.044</a>	-44.37	<a href="#">-61.483</a>	-44.60	<a href="#">-62.044</a>	-45.12		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 87 of 448

#### Equipment Configuration for Transmitter Conducted Spurious Emissions

<b>Variant:</b>	802.11n HT-40	<b>Duty Cycle (%):</b>	87
<b>Data Rate:</b>	13.5 MBit/s	<b>Antenna Gain (dBi):</b>	Not Applicable
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	CC
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

Test Frequency	Frequency Range	Transmitter Conducted Spurious Emissions (dBm)							
		Port a		Port b		Port c		Port d	
MHz	MHz	SE	Limit	SE	Limit	SE	Limit	SE	Limit
5755.0	30.0 - 26000.0	<a href="#">-63.982</a>	-44.14	<a href="#">-62.643</a>	-44.12	<a href="#">-63.286</a>	-44.45		
5795.0	30.0 - 26000.0	<a href="#">-63.286</a>	-47.85	<a href="#">-61.483</a>	-47.86	<a href="#">-62.643</a>	-48.13		

#### Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
Measurement Uncertainty:	<=40 GHz $\pm 2.37$ dB, > 40 GHz $\pm 4.6$ dB

Note: click the links in the above matrix to view the graphical image (plot).

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 88 of 448

## Specification

### Limits Band-Edge

Lower Limit Band-edge	Upper Limit Band-edge	Limit below highest level of desired power
2,400 MHz	2,483.5 MHz	≥ 20 dB
5725 MHz	5850 MHz	

**§15.247(d) and RSS-210 §A8.5** In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

#### §15.247(d)

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section §15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(a)).

**RSS-210 §A8.5** If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

#### RSS-Gen §4.7

The search for unwanted emissions shall be from the lowest frequency internally generated or used in the device (local oscillator, intermediate of carrier frequency), or from 30 MHz , whichever is the lowest frequency, to the 5<sup>th</sup> harmonic of the highest frequency generated without exceeding 40 GHz.

### Laboratory Measurement Uncertainty for Conducted Spurious Emissions

Measurement uncertainty	±2.37 dB
-------------------------	----------

### Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-05 'Measurement of Spurious Emissions'	0088, 0158, 0287, 0252, 0313, 0314, 0070, 0116, 0117.

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 89 of 448

---

### 5.1.2. Radiated Emission Testing

#### **Transmitter Radiated Spurious Emissions (above 1 GHz); Peak Field Strength Measurements; and Radiated Band Edge Measurements – Restricted Bands**

**FCC, Part 15 Subpart C §15.247(d) 15.205; 15.209**

**Industry Canada RSS-210 §A8.5, §2.2, §2.6**

**Industry Canada RSS-Gen §4.7**

#### **Test Procedure**

Radiated emissions above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter and waveguide filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned.

All measurements on any frequency or frequencies over 1 MHz are based on the use of measurement instrumentation employing an average detector function. All measurements above 1 GHz were performed using a minimum resolution bandwidth of 1 MHz.

#### **Operational Modes**

Operational mode(s) tested for spurious emissions were the modes which delivered maximum spectral density 802.11b and 802.11a.



### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

$$FS = R + AF + CORR - FO$$

where: FS = Field Strength

R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor

CORR = Correction Factor = CL – AG + NFL

CL = Cable Loss

AG = Amplifier Gain

FO = Distance Falloff Factor

NFL = Notch Filter Loss or Waveguide Loss

For example:

Given receiver input reading of 51.5 dB $\mu$ V; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 \text{ dB}\mu\text{V/m}$$

Conversion between dB $\mu$ V/m (or dB $\mu$ V) and  $\mu$ V/m (or  $\mu$ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (}\mu\text{V/m))}$$

$$40 \text{ dB}\mu\text{V/m} = 100 \mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250 \mu\text{V/m}$$

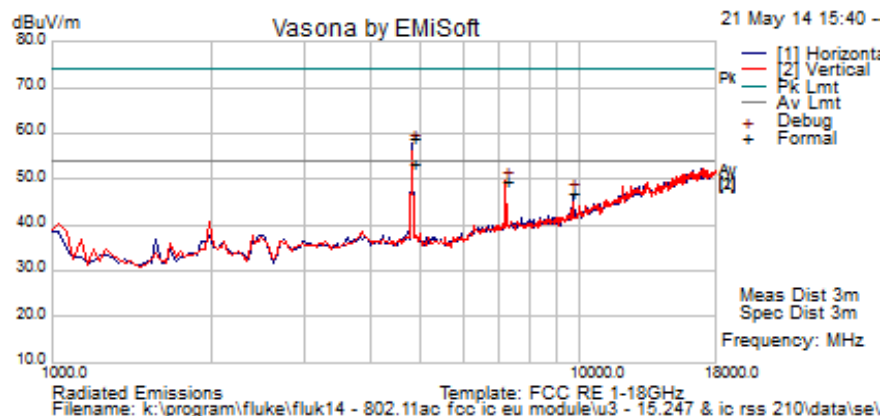
**NOTE: KDB 662911 was implemented for Out-of-Band measurements. Where necessary Option (2) Measure and add 10 log (N) dB was implemented**



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 91 of 448

#### 5.1.2.1. M830510 Chip antenna – Spurious and Band-Edge Emissions

Test Freq.	2412 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	85	Press. (mBars)	1001
Antenna	M830510 Chip	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Reduced power setting from 85 to 70;		



#### Formally measured emission peaks

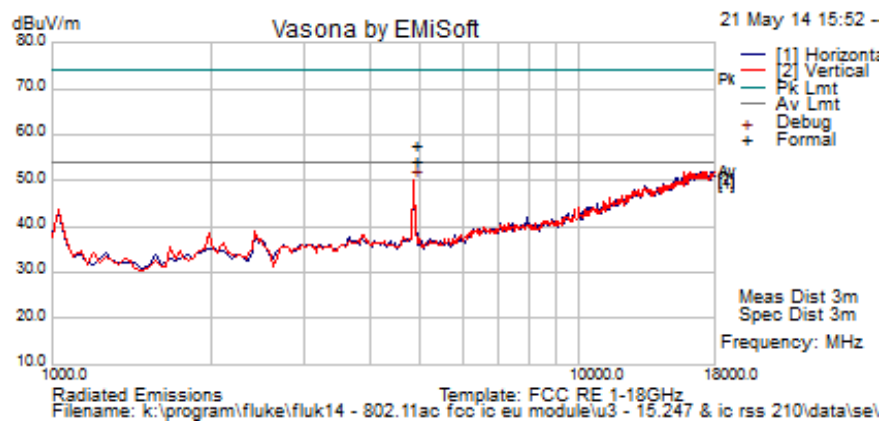
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
4823.998	55.4	5.7	-2.3	58.7	Peak Max	H	157	336	74.0	-15.3	Pass	RB
4823.948	49.8	5.7	-2.3	53.2	Average Max	H	158	336	54.0	-0.8	Pass	RB
7234.469	42.7	7.2	-0.2	49.6	Peak [Scan]	V	200					NRB
9652.909	36.0	8.5	2.3	46.7	Peak [Scan]	H	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 92 of 448

Test Freq.	2437 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	100	Press. (mBars)	1001
Antenna	M830510 Chip	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Reduced power setting from 100 to 67;		



#### Formally measured emission peaks

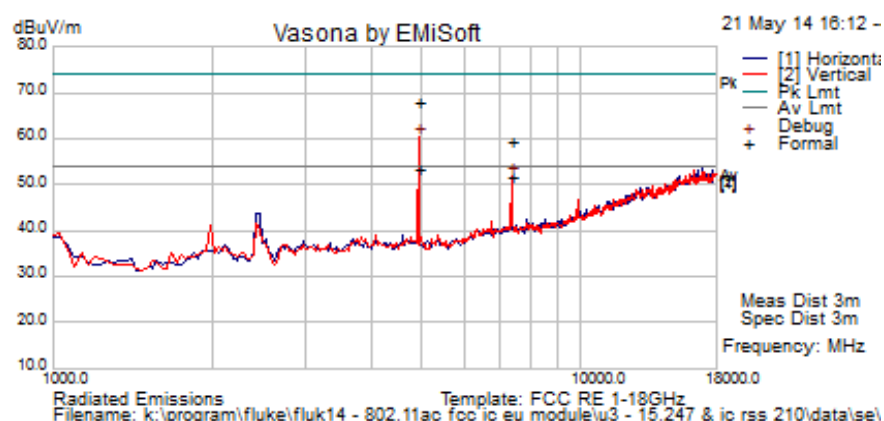
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
4874.048	54.4	5.7	-2.3	57.8	Peak Max	V	99	77	74.0	-16.2	Pass	RB
4873.999	49.8	5.7	-2.3	53.2	Average Max	V	98	77	54.0	-0.8	Pass	RB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 93 of 448

Test Freq.	2462 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	95	Press. (mBars)	1001
Antenna	M830510 Chip	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Reduced power setting from 95 to 67;		



#### Formally measured emission peaks

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	Comments
4923.929	64.6	5.7	-2.5	67.9	Peak Max	V	109	73	74.0	-6.2	Pass	RB
7386.874	52.1	7.3	-0.1	59.3	Peak Max	V	126	53	74.0	-14.7	Pass	RB
4923.930	50.2	5.7	-2.5	53.5	Average Max	V	109	73	54	-0.6	Pass	RB
7386.874	44.6	7.3	-0.1	51.8	Average Max	V	126	53	54	-2.2	Pass	RB

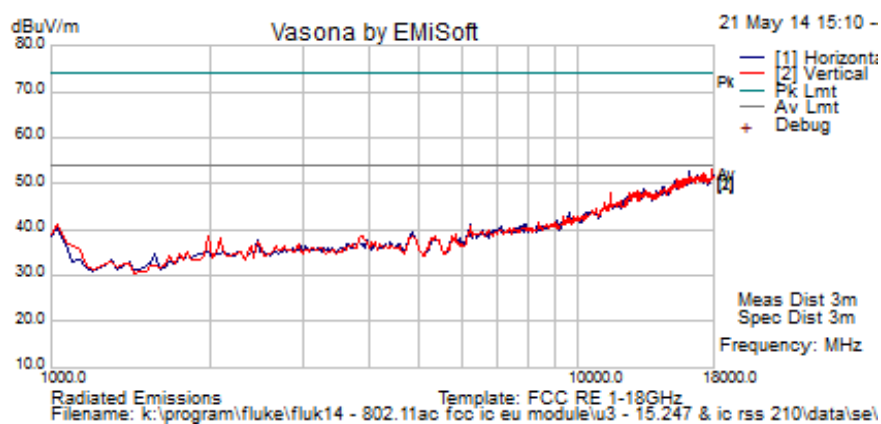
Legend:	TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission
	RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 94 of 448

Test Freq.	5745 MHz	Engineer	SB
Variant	802.11a; 6.0 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	86	Press. (mBars)	1001
Antenna	M830510 Chip	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

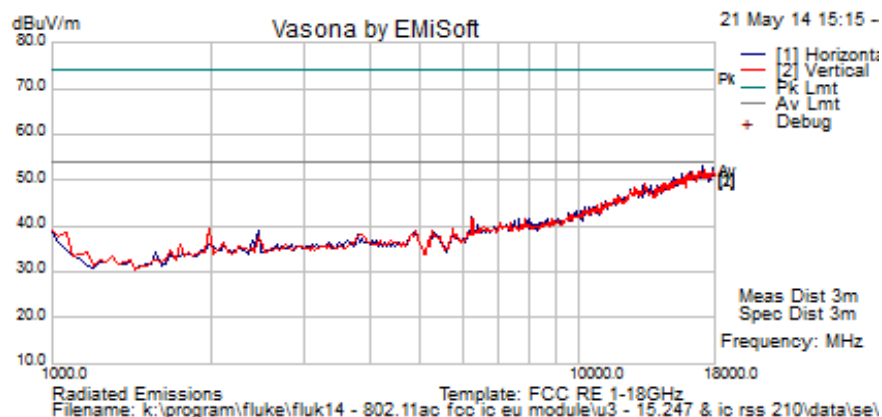
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
No Emissions observed within 6dB of the limit.												
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 95 of 448

Test Freq.	5785 MHz	Engineer	SB
Variant	802.11a; 6.0 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	86	Press. (mBars)	1001
Antenna	M830510 Chip	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

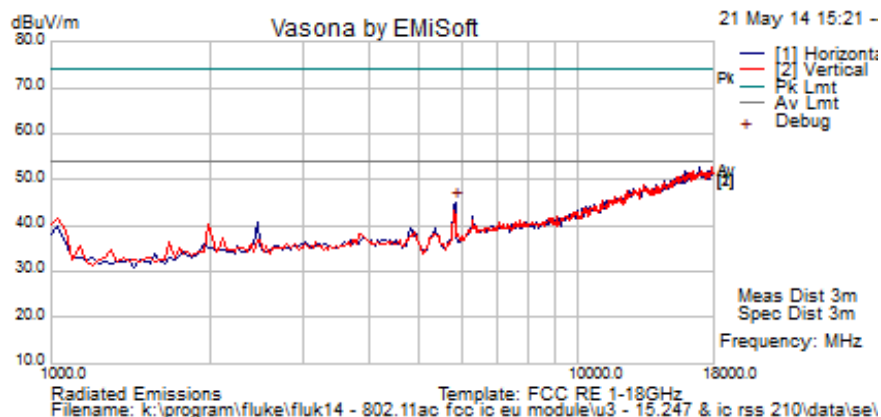
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
No Emissions observed within 6dB of the limit.												
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 96 of 448

Test Freq.	5825 MHz	Engineer	SB
Variant	802.11a; 6.0 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	86	Press. (mBars)	1001
Antenna	M830510 Chip	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

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	Comments
5836.526	40.4	6.3	-1.7	45.1	Peak [Scan]	H	98					FUND
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 97 of 448

## Band-Edge Results - M830510 Chip Antenna

Equipment Configuration for Radiated Low Band-Edge Emissions			
<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	1.1
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	M830510 Chip		
<b>Engineering Test Notes:</b>			

### Test Measurement Results

<b>Channel Frequency:</b>	2412.0, 2422.0 MHz								
<b>Band-Edge Frequency:</b>	2390.0 MHz								
<b>Frequency Range:</b>	2310.0 - 2390.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	55.83	74	-18.17	2390	47.7	54	-6.3	2389.61	85
<b>g</b>	73.17	74	-0.83	2390	53.65	54	-0.35	2390	76
<b>HT20</b>	73.18	74	-0.82	2389.61	51.02	54	-2.98	2390	70
<b>HT40</b>	71.37	74	-2.63	2389.61	52.39	54	-1.61	2386.84	65

### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 98 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	1.1
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	M830510 Chip		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2452, 2462 MHz								
<b>Band-Edge Frequency:</b>	2483.5 MHz								
<b>Test Frequency Range:</b>	2483.5 - 2500.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	59.14	74	-14.86	2484.32	50.92	54	-3.08	2484.69	95
<b>g</b>	71.11	74	-2.89	2483.53	52.27	54	-1.73	2483.5	67
<b>HT20</b>	72.82	74	-1.18	2483.53	50.38	54	-3.62	2483.5	67
<b>HT40</b>	73.91	74	-0.09	2485.58	53.6	54	-0.4	2483.5	58

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 99 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11a, HT20, HT40, AC40, AC80	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	6-28.5 Mbit/s	<b>Antenna Gain (dBi):</b>	3.2
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	M830510 Chip		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5745, 5755, 5765 MHz								
<b>Band-Edge Frequency:</b>	5460 MHz								
<b>Test Frequency Range:</b>	5350 - 5460 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
a	48.1	74	-25.9	5377.11	34.76	54	-19.24	5447.65	86
HT20	47.79	74	-26.21	5384.6	34.76	54	-19.24	5440.82	86
HT40	47.61	74	-26.39	5391.88	34.76	54	-19.24	5446.77	86
AC40	47.98	74	-26.02	5400.48	34.76	54	-19.24	5442.58	86
AC80	47.98	74	-26.02	5402.9	34.76	54	-19.24	5472.14	86

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

All band-edge plots are kept on file by the laboratory

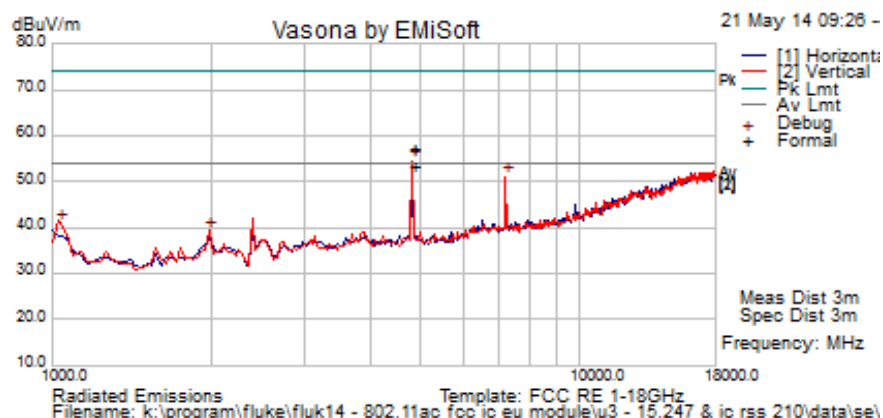
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 100 of 448

### 5.1.2.2. Nano PCB antenna – Spurious and Band-Edge Emissions

<b>Test Freq.</b>	2412 MHz	<b>Engineer</b>	SB
<b>Variant</b>	802.11b; 1 Mbs	<b>Temp (°C)</b>	20
<b>Freq. Range</b>	1000 MHz - 18000 MHz	<b>Rel. Hum.(%)</b>	46
<b>Power Setting</b>	85	<b>Press. (mBars)</b>	1001
<b>Antenna</b>	Nano PCB	<b>Duty Cycle (%)</b>	100
<b>Test Notes 1</b>	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
<b>Test Notes 2</b>	Reduced power setting from 85 to 75;		



#### Formally measured emission peaks

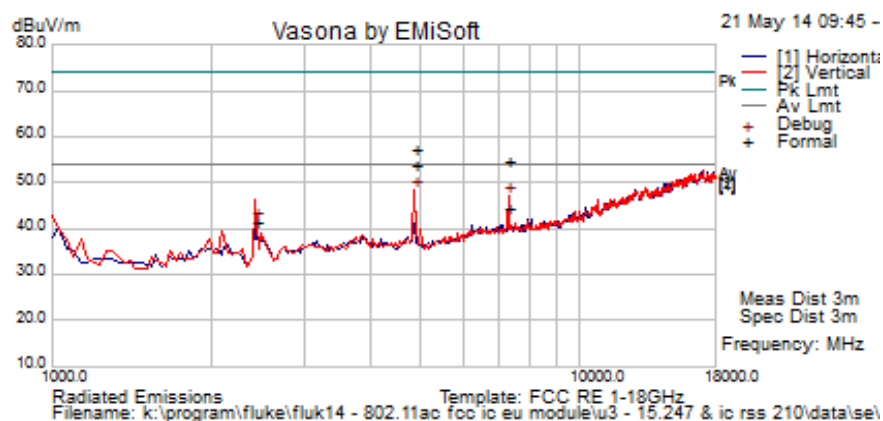
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
4823.979	53.7	5.7	-2.3	57.1	Peak Max	V	105	58	74.0	-16.9	Pass	RB
4823.979	50.1	5.7	-2.3	53.4	Average Max	V	105	58	54.0	-0.6	Pass	RB
7236.774	44.1	7.2	-0.2	51.1	Peak [Scan]	V	100					NRB
1039.791	47.8	2.5	-9.4	41.0	Peak [Scan]	V	104	58	54	-13.1	Pass	RB
1986.677	41.6	3.5	-6.1	39.1	Peak [Scan]	V	104					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 101 of 448

Test Freq.	2437 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	80	Press. (mBars)	1001
Antenna	Nano PCB	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Reduced power setting from 100 to 80;		



#### Formally measured emission peaks

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	Comments
4873.898	53.9	5.7	-2.3	57.3	Peak Max	V	148	34	74.0	-16.7	Pass	RB
7311.193	47.9	7.2	-0.3	54.8	Peak Max	V	147	52	74.0	-19.2	Pass	RB
4873.898	50.2	5.7	-2.3	53.6	Average Max	V	148	34	54	-0.4	Pass	RB
7311.193	37.2	7.2	-0.3	44.2	Average Max	V	147	52	54	-9.8	Pass	RB
2446.284	42.7	4.0	-5.2	41.4	Peak [Scan]	V	98					FUND

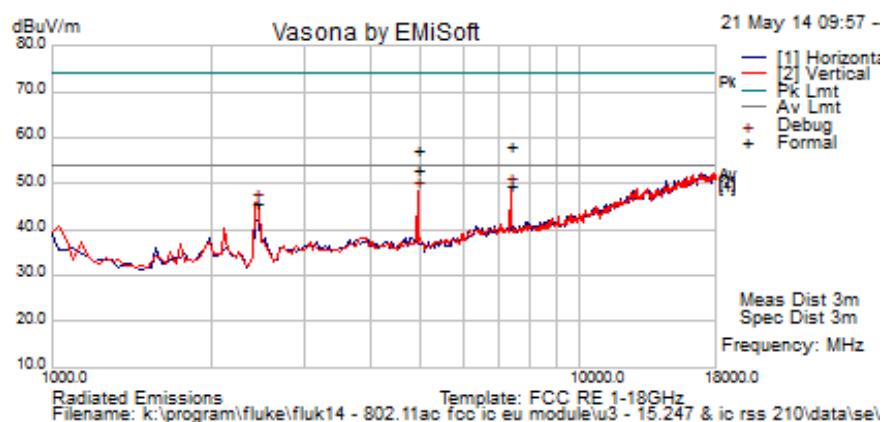
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission  
 RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 102 of 448

<b>Test Freq.</b>	2462 MHz	<b>Engineer</b>	SB
<b>Variant</b>	802.11b; 1 Mbs	<b>Temp (°C)</b>	20
<b>Freq. Range</b>	1000 MHz - 18000 MHz	<b>Rel. Hum.(%)</b>	46
<b>Power Setting</b>	95	<b>Press. (mBars)</b>	1001
<b>Antenna</b>	Nano PCB	<b>Duty Cycle (%)</b>	100
<b>Test Notes 1</b>	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
<b>Test Notes 2</b>	Reduced power setting from 95 to 80;		



#### Formally measured emission peaks

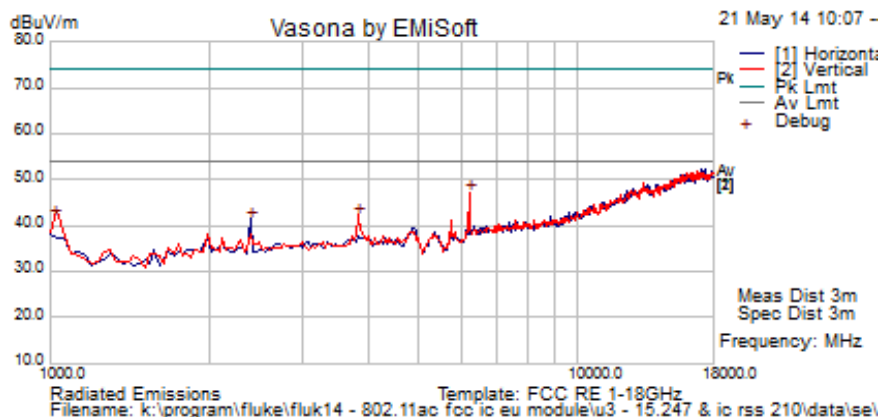
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
7386.874	50.9	7.3	-0.1	58.0	Peak Max	V	119	45	74.0	-16.0	Pass	RB
4923.807	53.8	5.7	-2.5	57.0	Peak Max	V	105	160	74.0	-17.0	Pass	RB
7386.874	42.3	7.3	-0.1	49.4	Average Max	V	119	45	54	-4.6	Pass	RB
4923.807	49.7	5.7	-2.5	53.0	Average Max	V	105	160	54	-1.0	Pass	RB
2446.284	46.9	4.0	-5.2	45.7	Peak [Scan]	V	98					FUND
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 103 of 448

Test Freq.	5745 MHz	Engineer	SB
Variant	802.11a; 6.0 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	86	Press. (mBars)	1001
Antenna	Nano PCB	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

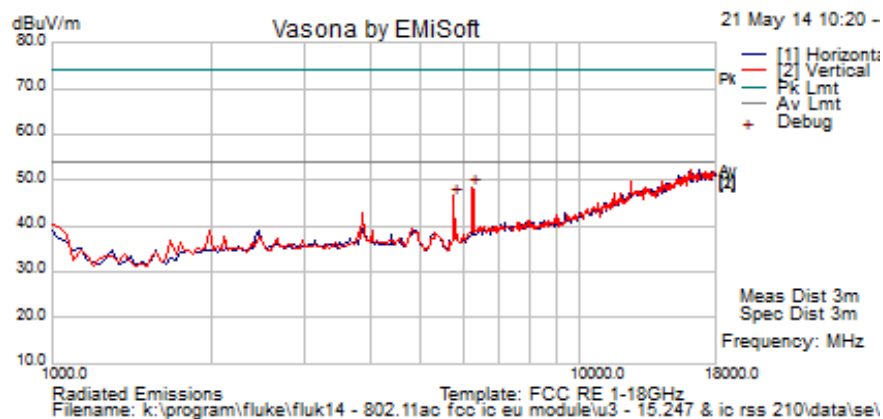
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
6212.139	41.1	6.6	-0.6	47.0	Peak [Scan]	V					Pass	NRB
1021.914	48.3	2.5	-9.3	41.5	Peak [Scan]	V	100	-1	54.0	-12.5	Pass	RB
3834.438	40.2	5.0	-3.5	41.7	Peak [Scan]	V	100	-1	54	-12.3	Pass	RB
2400.753	42.3	3.9	-5.5	40.7	Peak [Scan]	V	100	-1	54	-13.3	Pass	RB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 104 of 448

Test Freq.	5785 MHz	Engineer	SB
Variant	802.11a; 6.0 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	86	Press. (mBars)	1001
Antenna	Nano PCB	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

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	Comments
6246.493	42.4	6.6	-0.6	48.4	Peak [Scan]	V	100					NRB
5770.409	41.8	6.3	-1.8	46.3	Peak [Scan]	V	98					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

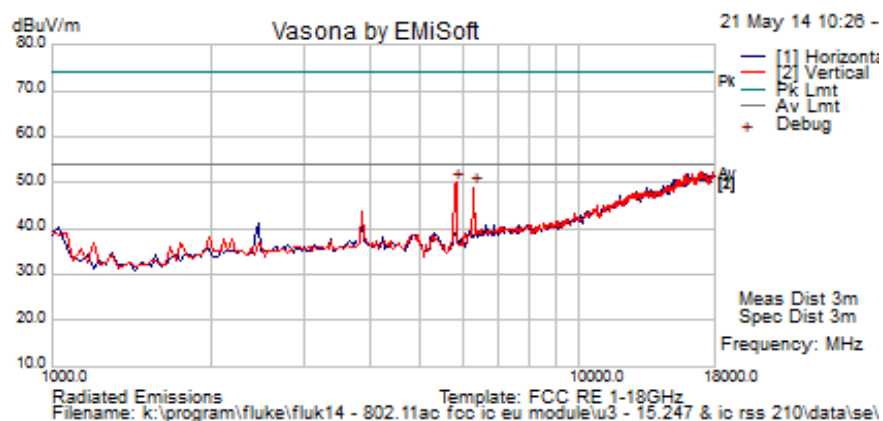
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 105 of 448

Test Freq.	5825 MHz	Engineer	SB
Variant	802.11a; 6.0 Mbs	Temp (°C)	20
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	46
Power Setting	86	Press. (mBars)	1001
Antenna	Nano PCB	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

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	Comments
5837.675	45.4	6.3	-1.7	50.0	Peak [Scan]	V	100					FUND
6314.629259	42.8	6.6	-0.6	48.9	Peak [Scan]	V	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 106 of 448

## Band-Edge Results – NANO PCB Antenna

Equipment Configuration for Radiated Low Band-Edge Emissions			
<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	Nano Green PCB		
<b>Engineering Test Notes:</b>			

### Test Measurement Results

<b>Channel Frequency:</b>	2412.0, 2422.0 MHz								
<b>Band-Edge Frequency:</b>	2390.0 MHz								
<b>Frequency Range:</b>	2310.0 - 2390.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	59.82	74	-14.18	2390	51.46	54	-2.54	2389.61	85
<b>g</b>	73.59	74	-0.41	2390	50.96	54	-3.04	2390	69
<b>HT20</b>	72.12	74	-1.88	2390	48.59	54	-5.41	2390	65
<b>HT40</b>	73.74	74	-0.26	2390	51.7	54	-2.3	2390	61

### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 107 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	0.9
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	Nano Green PCB		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2452, 2462 MHz								
<b>Band-Edge Frequency:</b>	2483.5 MHz								
<b>Test Frequency Range:</b>	2483.5 - 2500.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	63.68	74	-10.32	2483.66	53	54	-1	2491.3	89
<b>g</b>	73.32	74	-0.68	2483.53	52.79	54	-1.21	2483.5	62
<b>HT20</b>	72.92	74	-1.08	2483.53	51.36	54	-2.64	2483.5	56
<b>HT40</b>	72.99	74	-1.01	2485.38	52.22	54	-1.78	2483.5	40

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 108 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11a, HT20, HT40, AC40, AC80	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	6-28.5 Mbit/s	<b>Antenna Gain (dBi):</b>	4.8
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	Nano Green PCB		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5745, 5755, 5765 MHz								
<b>Band-Edge Frequency:</b>	5460 MHz								
<b>Test Frequency Range:</b>	5350 - 5460 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
a	53.06	74	-20.94	5430.02	40	54	-14	5422.52	86
HT20	52.57	74	-21.43	5431.78	40.14	54	-13.86	5426.27	86
HT40	52.87	74	-21.13	5425.61	40.14	54	-13.86	5426.05	86
AC40	52.8	74	-21.2	5441.48	40.14	54	-13.86	5426.27	86
AC80	52.5	74	-21.5	5423.62	40	54	-14	5423.18	86

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

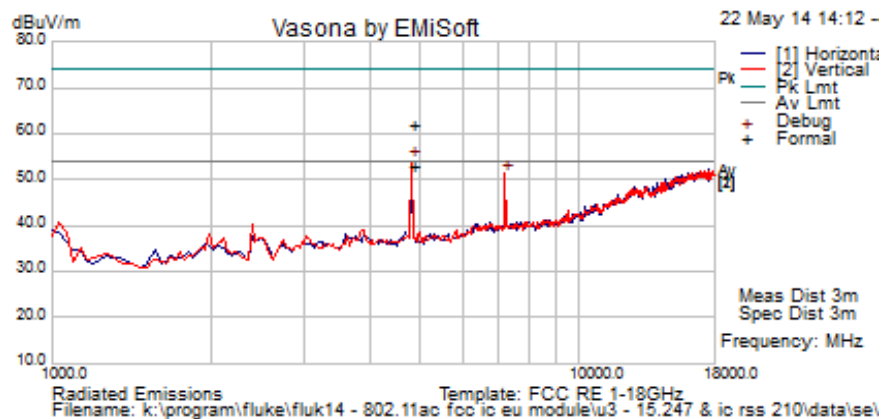
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 109 of 448

### 5.1.2.3. WSS013 Dual band antenna – Spurious and Band-Edge Emissions

Test Freq.	2412 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	24.5
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	39
Power Setting	92	Press. (mBars)	1000
Antenna	WSS013	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Power setting reduced from 92 to 84;		



#### Formally measured emission peaks

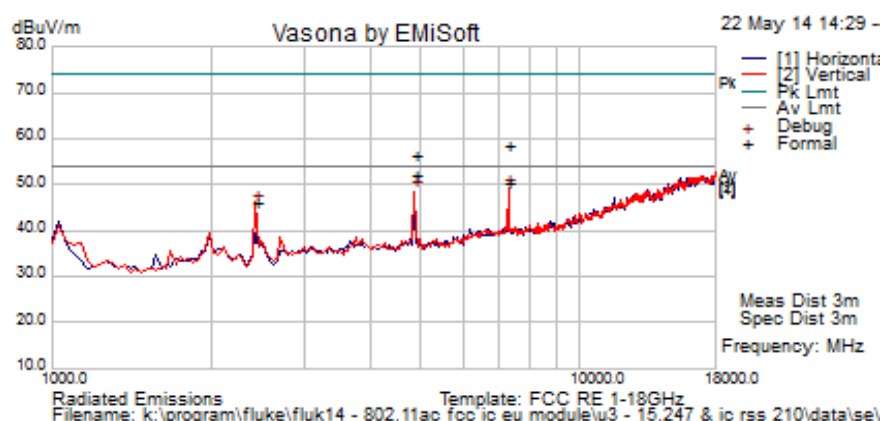
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
4823.998	58.6	5.7	-2.3	62.0	Peak Max	V	109	79	74.0	-12.0	Pass	RB
4823.998	49.6	5.7	-2.3	52.9	Average Max	V	108	79	54.0	-1.1	Pass	RB
7234.469	44.5	7.2	-0.2	51.4	Peak [Scan]	V	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 110 of 448

Test Freq.	2437 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	24.5
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	39
Power Setting	92	Press. (mBars)	1000
Antenna	WSS013	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Power setting reduced from 92 to 84;		



#### Formally measured emission peaks

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	Comments
7311.824	51.4	7.2	-0.3	58.4	Peak Max	V	99	63	74.0	-15.6	Pass	RB
4874.098	53.0	5.7	-2.3	56.4	Peak Max	V	153	108	74.0	-17.6	Pass	RB
7311.824	43.5	7.2	-0.3	50.4	Average Max	V	99	63	54	-3.6	Pass	RB
4874.098	48.7	5.7	-2.3	52.1	Average Max	V	153	108	54	-1.9	Pass	RB
2429.590	47.2	3.9	-5.3	45.9	Peak [Scan]	V	98					FUND

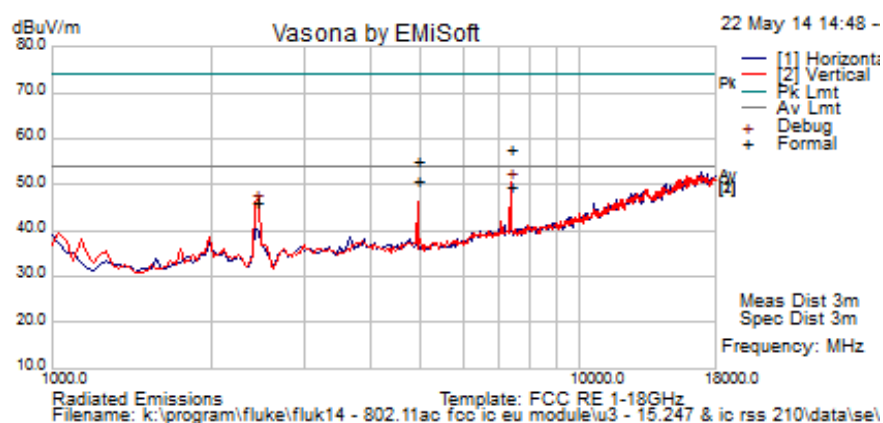
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission  
 RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 111 of 448

<b>Test Freq.</b>	2462 MHz	<b>Engineer</b>	SB
<b>Variant</b>	802.11b; 1 Mbs	<b>Temp (°C)</b>	24.5
<b>Freq. Range</b>	1000 MHz - 18000 MHz	<b>Rel. Hum.(%)</b>	39
<b>Power Setting</b>	92	<b>Press. (mBars)</b>	1000
<b>Antenna</b>	WSS013	<b>Duty Cycle (%)</b>	100
<b>Test Notes 1</b>	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
<b>Test Notes 2</b>	Power setting reduced from 92 to 85;		



#### Formally measured emission peaks

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	Comments
7387.976	50.3	7.3	-0.1	57.5	Peak Max	V	100	87	74.0	-16.5	Pass	RB
4923.935	51.9	5.7	-2.5	55.2	Peak Max	V	140	55	74.0	-18.8	Pass	RB
7387.976	42.3	7.3	-0.1	49.4	Average Max	V	100	87	54	-4.6	Pass	RB
4923.935	47.3	5.7	-2.5	50.6	Average Max	V	140	55	54	-3.4	Pass	RB
2429.590	47.2	3.9	-5.3	45.9	Peak [Scan]	V	98					FUND

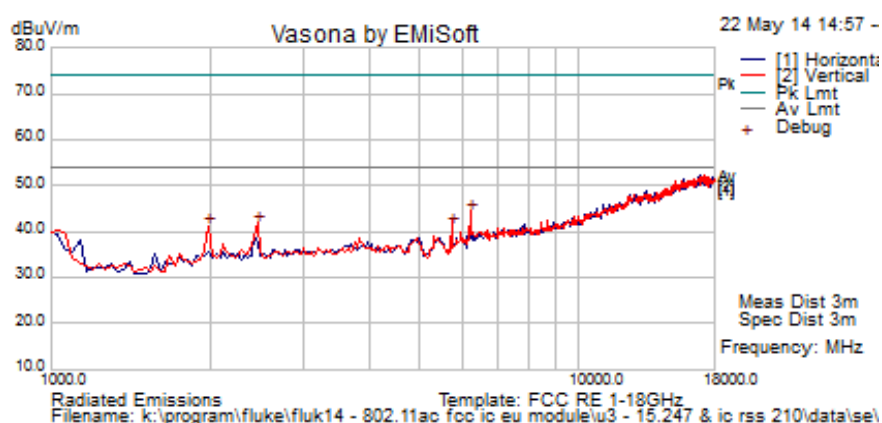
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission  
 RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 112 of 448

Test Freq.	5745 MHz	Engineer	SB
Variant	802.11a; 6 Mbs	Temp (°C)	24.5
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	39
Power Setting	86	Press. (mBars)	1000
Antenna	WSS013	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

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	Comments
5745.579	36.5	6.3	-1.9	40.8	Peak [Scan]	V	98					FUND
6216.193	38.2	6.6	-0.6	44.1	Peak [Scan]	V	98					NRB
2467.588	42.5	4.0	-5.2	41.3	Peak [Scan]	V	98					NRB
1986.677	43.4	3.5	-6.1	40.9	Peak [Scan]	V	98					NRB

Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission  
 RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak

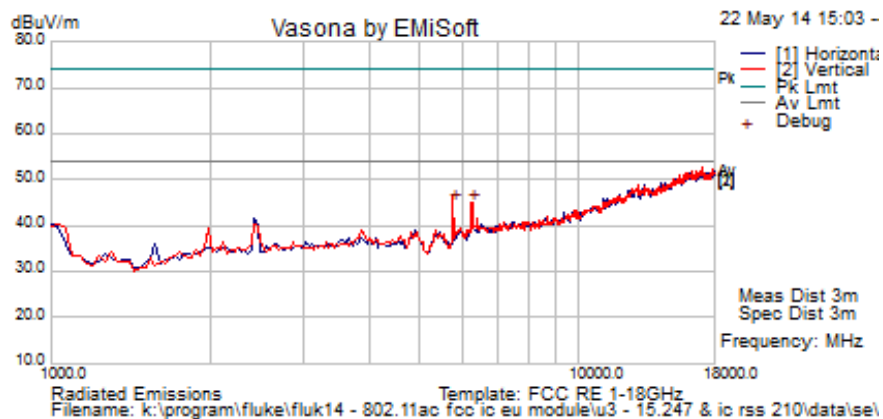
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 113 of 448

Test Freq.	5785 MHz	Engineer	SB
Variant	802.11a; 6 Mbs	Temp (°C)	24.5
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	39
Power Setting	86	Press. (mBars)	1000
Antenna	WSS013	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

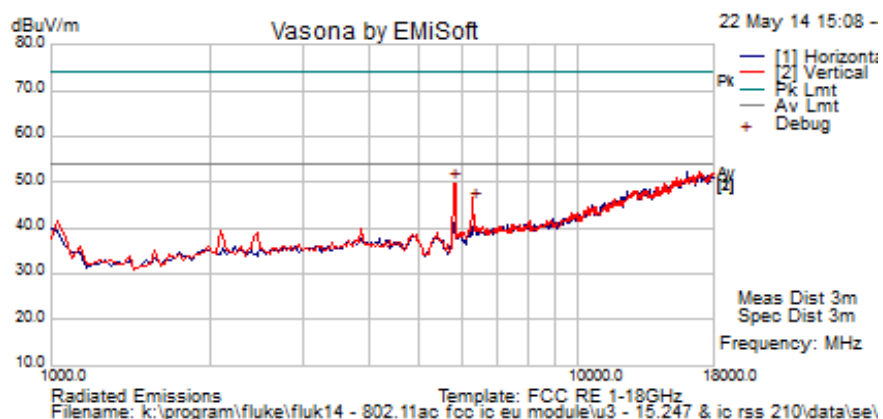
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5775.279	40.3	6.3	-1.8	44.8	Peak [Scan]	V	100					FUND
6264.257	39.0	6.6	-0.6	45.0	Peak [Scan]	V	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 114 of 448

Test Freq.	5825 MHz	Engineer	SB
Variant	802.11a; 6 Mbs	Temp (°C)	24.5
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	39
Power Setting	86	Press. (mBars)	1000
Antenna	WSS013	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

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	Comments
5803.607	45.3	6.3	-1.8	49.8	Peak [Scan]	V	150					FUND
6302.946	39.6	6.6	-0.6	45.6	Peak [Scan]	V	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 115 of 448

## Band-Edge Results – WSS013 Antenna

Equipment Configuration for Radiated Low Band-Edge Emissions			
<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	2
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	WSS013 Dual Band Antenna		
<b>Engineering Test Notes:</b>			

### Test Measurement Results

<b>Channel Frequency:</b>	2412.0, 2422.0 MHz								
<b>Band-Edge Frequency:</b>	2390.0 MHz								
<b>Frequency Range:</b>	2310.0 - 2390.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	60.98	74	-13.02	2387.71	52.96	54	-1.04	2387.33	89
<b>g</b>	73.56	74	-0.44	2390	53.35	54	-0.65	2390	73
<b>HT20</b>	72.9	74	-1.1	2390	50.82	54	-3.18	2390	68
<b>HT40</b>	72.9	74	-1.1	2388.47	50.5	54	-3.5	2390	63

### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 116 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	2
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	WSS013 Dual Band Antenna		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2452, 2462 MHz								
<b>Band-Edge Frequency:</b>	2483.5 MHz								
<b>Test Frequency Range:</b>	2483.5 - 2500.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	60.56	74	-13.44	2487.93	49.06	54	-4.94	2488.09	95
<b>g</b>	69.17	74	-4.83	2437.97	50.38	54	-3.62	2483.5	65
<b>HT20</b>	73.74	74	-0.26	2483.73	52.62	54	-1.38	2483.53	65
<b>HT40</b>	71.29	74	-2.71	2483.59	53.6	54	-0.4	2483.5	58

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 117 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11a, HT20, HT40, AC40, AC80	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	6-28.5 Mbit/s	<b>Antenna Gain (dBi):</b>	2
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	WSS013 Dual Band Antenna		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5745, 5755, 5765 MHz								
<b>Band-Edge Frequency:</b>	5460 MHz								
<b>Test Frequency Range:</b>	5350 - 5460 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
a	53.05	74	-20.95	5384.82	39.91	54	-14.09	5448.09	86
HT20	53.34	74	-20.66	5457.57	39.91	54	-14.09	5448.31	86
HT40	54.03	74	-19.97	5415.69	39.91	54	-14.09	5442.36	86
AC40	53.2	74	-20.8	5416.57	39.91	54	-14.09	5417.01	86
AC80	52.6	74	-21.4	5429.35	39.91	54	-14.09	5417.23	86

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

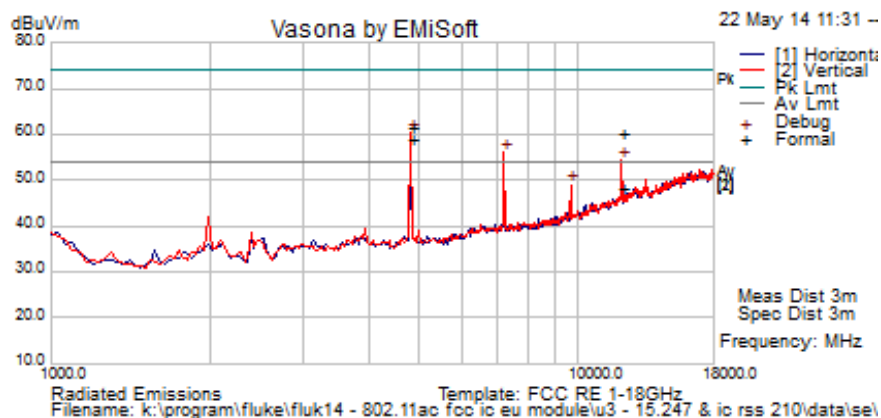
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 118 of 448

#### 5.1.2.4. WTS2450RPSMA antenna – Spurious and Band-Edge Emissions

Test Freq.	2412 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	42
Power Setting	90	Press. (mBars)	1000
Antenna	WTS2450RPSMA	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Power setting reduced from 92 to 80;		



#### Formally measured emission peaks

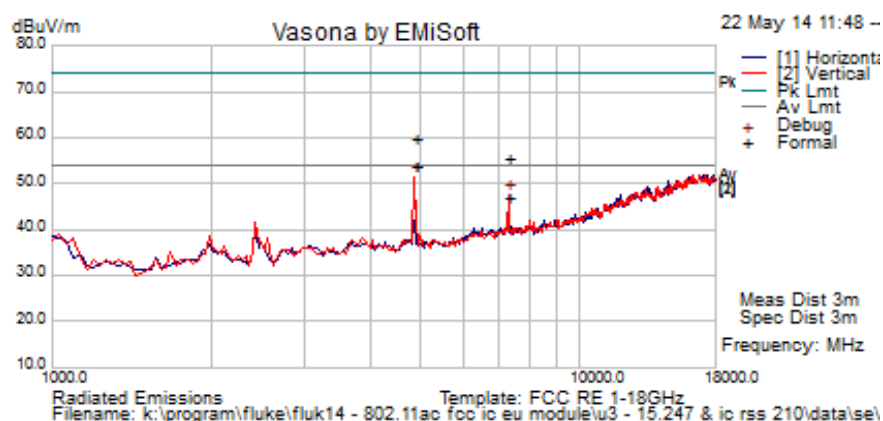
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
4823.898	58.3	5.7	-2.3	61.6	Peak Max	V	99	5	74.0	-12.4	Pass	RB
12059.869	44.7	9.5	5.9	60.1	Peak Max	V	150	19	74.0	-14.0	Pass	RB
4823.899	50.6	5.7	-2.3	53.9	Average Max	V	99	5	54	-0.1	Pass	RB
12059.869	32.6	9.5	5.9	48.0	Average Max	V	150	19	54	-6.0	Pass	RB
7234.469	49.2	7.2	-0.2	56.1	Peak [Scan]	V	100					NRB
9653.307	38.3	8.5	2.3	49.0	Peak [Scan]	V	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 119 of 448

Test Freq.	2437 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	42
Power Setting	90	Press. (mBars)	1000
Antenna	WTS2450RPSMA	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Power setting reduced from 100 to 75;		



#### Formally measured emission peaks

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	Comments
4873.892	56.2	5.7	-2.3	59.6	Peak Max	V	99	-1	74.0	-14.4	Pass	RB
7310.022	48.6	7.2	-0.3	55.6	Peak Max	V	112	-1	74.0	-18.4	Pass	RB
4873.893	50.3	5.7	-2.3	53.7	Average Max	V	99	-1	54	-0.3	Pass	RB
7310.022	39.9	7.2	-0.3	46.8	Average Max	V	112	-1	54	-7.2	Pass	RB

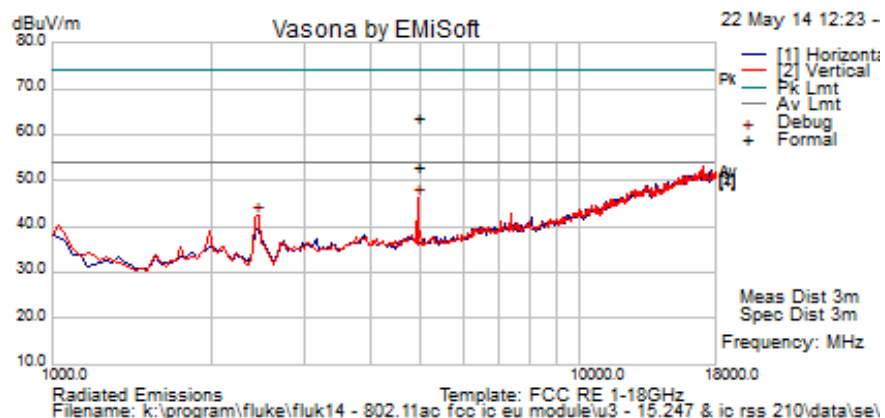
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission  
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 120 of 448

Test Freq.	2462 MHz	Engineer	SB
Variant	802.11b; 1 Mbs	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	42
Power Setting	90	Press. (mBars)	1000
Antenna	WTS2450RPSMA	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2	Power setting reduced from 95 to 80;		



#### Formally measured emission peaks

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	Comments
4924.080	60.4	5.7	-2.5	63.7	Peak Max	V	112	67	74.0	-10.4	Pass	RB
4924.03	49.7	5.7	-2.5	52.9	Average	V	111	67	54.0	-1.1	Pass	RB
2446.284	43.4	4.0	-5.2	42.2	Peak [Scan]	V	99					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

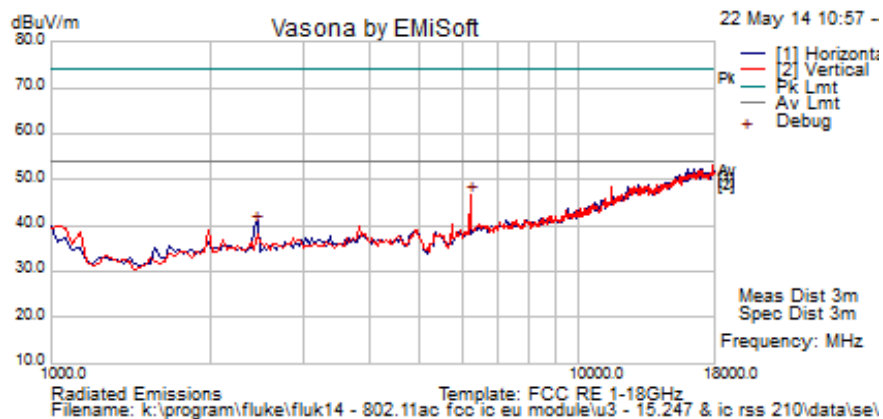
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 121 of 448

Test Freq.	5745 MHz	Engineer	SB
Variant	802.11a; 6 Mbs	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	42
Power Setting	86	Press. (mBars)	1000
Antenna	WTS2450RPSMA	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

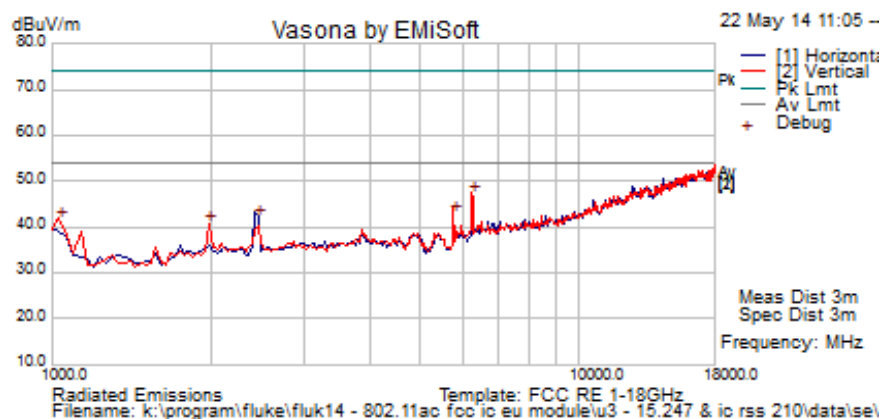
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
2446.284	41.4	4.0	-5.2	40.1	Peak [Scan]	V	98					NRB
6213.033	40.7	6.6	-0.6	46.6	Peak [Scan]	V	98					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 122 of 448

Test Freq.	5785 MHz	Engineer	SB
Variant	802.11a; 6 Mbs	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	42
Power Setting	86	Press. (mBars)	1000
Antenna	WTS2450RPSMA	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

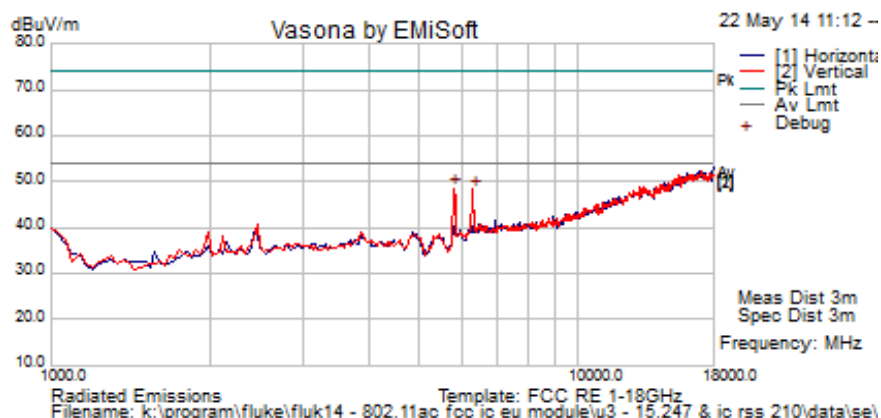
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
6242.917	40.9	6.6	-0.6	46.9	Peak [Scan]	V	100					NRB
5775.477	38.3	6.3	-1.8	42.8	Peak [Scan]	V	100					FUND
2467.588	43.1	4.0	-5.2	41.9	Peak [Scan]	V	100					NRB
1039.791	48.1	2.5	-9.4	41.2	Peak [Scan]	V	100	-1	54	-12.8	Pass	RB
1988.607	43.2	3.5	-6.1	40.7	Peak [Scan]	V	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 123 of 448

Test Freq.	5825 MHz	Engineer	SB
Variant	802.11a; 6 Mbs	Temp (°C)	22
Freq. Range	1000 MHz - 18000 MHz	Rel. Hum.(%)	42
Power Setting	86	Press. (mBars)	1000
Antenna	WTS2450RPSMA	Duty Cycle (%)	100
Test Notes 1	Laptop w/ PCMCIA Adapter mini HDMI cable to radio module;		
Test Notes 2			



#### Formally measured emission peaks

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	Comments
5803.607	44.0	6.3	-1.8	48.5	Peak [Scan]	V	100					FUND
6314.629259	42.3	6.6	-0.6	48.3	Peak [Scan]	V	100					NRB
Legend: TX = Transmitter Emissions; DIG = Digital Emissions; FUND = Fundamental; WB = Wideband Emission												
RB = Restricted Band (15.209 Limits); NRB = Non Restricted Band, Limit is 20dB below fundamental peak												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 124 of 448

## Band-Edge Results – WTS2450RPSMA Antenna

Equipment Configuration for Radiated Low Band-Edge Emissions			
<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	2.1
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	WTS2450RPSMA		
<b>Engineering Test Notes:</b>			

### Test Measurement Results

<b>Channel Frequency:</b>	2412.0, 2422.0 MHz								
<b>Band-Edge Frequency:</b>	2390.0 MHz								
<b>Frequency Range:</b>	2310.0 - 2390.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	59.88	74	-14.12	2386.19	53.79	54	-0.21	2385.81	92
<b>g</b>	71.82	74	-2.18	2390	52.05	54	-1.95	2390	76
<b>HT20</b>	71.49	74	-2.51	2389.61	48.91	54	-5.09	2390	70
<b>HT40</b>	71.5	74	-2.5	2388.09	53.12	54	-0.88	2390	77

### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

f

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 125 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11b,g, HT-20, HT40	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	1-13.5 Mbit/s	<b>Antenna Gain (dBi):</b>	2.1
<b>Modulation:</b>	CCK, OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	WTS2450RPSMA		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	2452, 2462 MHz								
<b>Band-Edge Frequency:</b>	2483.5 MHz								
<b>Test Frequency Range:</b>	2483.5 - 2500.0 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
<b>b</b>	56.11	74	-17.89	2485.12	46.34	54	-7.66	2484.78	95
<b>g</b>	67.92	74	-6.08	2483.53	48.38	54	-5.62	2483.5	65
<b>HT20</b>	72.95	74	-1.05	2483.69	50.6	54	-3.4	2483.5	64
<b>HT40</b>	72.08	74	-1.92	52.96	52.96	54	-1.04	2483.5	54

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 126 of 448

#### Equipment Configuration for Radiated High Band-Edge Emissions

<b>Variant:</b>	802.11a, HT20, HT40, AC40, AC80	<b>Duty Cycle (%):</b>	100
<b>Data Rate:</b>	6-28.5 Mbit/s	<b>Antenna Gain (dBi):</b>	2.5
<b>Modulation:</b>	OFDM	<b>Beam Forming Gain (Y):</b>	Not Applicable
<b>TPC:</b>	Not Applicable	<b>Tested By:</b>	SB
<b>Antenna:</b>	WTS2450RPSMA		
<b>Engineering Test Notes:</b>			

#### Test Measurement Results

<b>Channel Frequency:</b>	5745, 5755, 5765 MHz								
<b>Band-Edge Frequency:</b>	5460 MHz								
<b>Test Frequency Range:</b>	5350 - 5460 MHz								
modes	Band-Edge Markers and Limit								
	Peak Amplitude (dBuV)	Peak Limit (dBuV)	Peak Margin dB	Peak Frequency (MHz)	AVG Amplitude (dBuV)	AVG Limit (dBuV)	AVG Margin dB	AVG Frequency (MHz)	Power Setting
a	53.34	74	-20.66	5447.21	39.91	54	-14.09	5390.34	86
HT20	53.62	74	-20.38	5369.83	39.91	54	-14.09	5388.79	86
HT40	53.05	74	-20.95	5409.29	39.91	54	-14.09	5393.42	86
AC40	53.2	74	-20.8	5451.4	39.91	54	-14.09	5392.32	86
AC80	53.2	74	-20.8	5455.15	39.91	54	-14.09	5390.34	86

#### Traceability to Industry Recognized Test Methodologies

<b>Work Instruction:</b>	WI-05 MEASUREMENT OF SPURIOUS EMISSIONS
<b>Measurement Uncertainty:</b>	≤40 GHz ±2.37 dB, > 40 GHz ±4.6 dB

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

## Specification Limits

**FCC §15.247(d) and RSS-210 §A8.5** In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

### **FCC §15.247(d)**

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section §15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(a)).

**IC RSS-210 §A8.5** If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

### **IC RSS-Gen §4.7**

The search for unwanted emissions shall be from the lowest frequency internally generated or used in the device (local oscillator, intermediate of carrier frequency), or from 30 MHz, whichever is the lowest frequency, to the 5<sup>th</sup> harmonic of the highest frequency generated without exceeding 40 GHz.

**FCC §15.205 (a)** Except as shown in paragraph (d) of 15.205 (a), only spurious emissions are permitted in any of the frequency bands listed.

**FCC §15.205 (a)** Except as shown in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

**FCC §15.209 (a)** Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 128 of 448

---

**§15.209 (a) Limit Matrix**

Frequency(MHz)	Field Strength ( $\mu\text{V/m}$ )	Field Strength (dB $\mu\text{V/m}$ )	Measurement Distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

**Laboratory Measurement Uncertainty for Radiated Emissions**

Measurement uncertainty	+5.6/ -4.5 dB
-------------------------	---------------

**Traceability**

Method	Test Equipment Used
Measurements were made per work instruction WI-03 'Measurement of Radiated Emissions'	0088, 0158, 0134, 0304, 0311, 0315, 0310, 0312

---

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.





#### 5.1.2.5. Digital Emissions (0.03-1 GHz)

**FCC, Part 15 Subpart C §15.205/ §15.209**  
**Industry Canada RSS-210 §2.2**

##### Test Procedure

Testing 30M-1 GHz was performed in a 3-meter anechoic chamber using a CISPR compliant receiver. Preliminary radiated emissions were measured on every azimuth and with the receiving antenna in both horizontal and vertical polarizations. To further maximize emissions the receive antenna was varied between 1 and 4 meters. The emissions are recorded with receiver in peak hold mode. Emissions closest to the limits are measured in the quasi-peak mode with the tuned receiver using a bandwidth of 120 kHz. Only the highest emissions relative to the limit are listed. The anechoic chamber test set-up is identified in Section 6 Test Set-Up Photographs.

The EUT had two methods of powering on ac/dc converter and Power over Ethernet (POE). Both modes were tested for emissions below 1GHz.

##### Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. In this test facility, the Antenna Factor, Cable Loss, and Amplifier Gains are loaded into the Rohde & Schwarz Receiver and the corrected field strength can be read directly on the receiver.

$$FS = R + AF + CORR$$

where:

FS = Field Strength

R = Measured Receiver Input Amplitude

AF = Antenna Factor

CORR = Correction Factor = CL – AG + NFL

CL = Cable Loss

AG = Amplifier Gain

For example:

Given a Receiver input reading of 51.5dB $\mu$ V; Antenna Factor of 8.5dB; Cable Loss of 1.3dB; Falloff Factor of 0dB, an Amplifier Gain of 26dB and Notch Filter Loss of 1dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3\text{dB}\mu\text{V/m}$$

Conversion between dB $\mu$ V/m (or dB $\mu$ V) and  $\mu$ V/m (or  $\mu$ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (}\mu\text{V/m))}$$

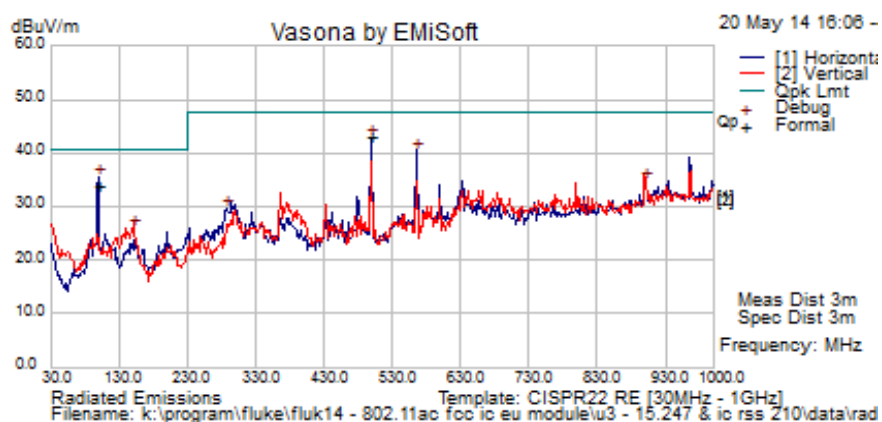
$$40 \text{ dB}\mu\text{V/m} = 100\mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250\mu\text{V/m}$$



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 130 of 448

Test Freq.	2437 MHz	Engineer	SB
Variant	Digital Emissions	Temp (°C)	21.5
Freq. Range	30 MHz - 1000 MHz	Rel. Hum.(%)	41
Power Setting	90	Press. (mBars)	1002
Antenna	Nano Green PCB		
Test Notes 1	Laptop on battery;		
Test Notes 2			



#### Formally measured emission peaks

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	Comments
99.875	50.6	4.1	-20.9	33.9	Quasi Max	H	168	346	40.5	-6.6	Pass	
498.753	49.8	5.8	-12.7	42.9	Quasi Max	H	176	329	47.5	-4.6	Pass	
288.020	41.9	5.0	-17.2	29.6	Peak [Scan]	H	148	361	47.5	-17.9	Pass	
565.626	45.8	6.1	-11.6	40.3	Peak [Scan]	H	148	361	47.5	-7.2	Pass	
151.735	39.9	4.4	-18.5	25.8	Peak [Scan]	V	148	361	40.5	-14.7	Pass	
901.060	34.7	7.1	-7.2	34.6	Peak [Scan]	V	148	361	47.5	-12.9	Pass	
Legend: DIG = Digital Device Emission; TX = Transmitter Emission; FUND = Fundamental Frequency												
NRB = Non-Restricted Band, Limit is 20 dB below Fundamental; RB = Restricted Band												

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 131 of 448

## Specification

### Limits

**§15.205 (a)** Except as shown in paragraph (d) of 15.205 (a), only spurious emissions are permitted in any of the frequency bands listed.

**§15.205 (a)** Except as shown in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

**§15.209 (a)** Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.

### §15.209 (a) and RSS-Gen §2.2 Limit Matrix

Frequency(MHz)	Field Strength ( $\mu$ V/m)	Field Strength (dB $\mu$ V/m)	Measurement Distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

### Laboratory Measurement Uncertainty for Radiated Emissions

Measurement uncertainty	+5.6/ -4.5 dB
-------------------------	---------------

### Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-03 'Measurement of Radiated Emissions'	0088, 0158, 0134, 0304, 0311, 0315, 0310, 0312

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

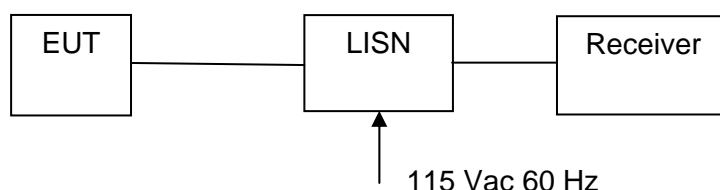
### 5.1.3. AC Wireline Conducted Emissions (150 kHz – 30 MHz)

**FCC, Part 15 Subpart C §15.207**  
**Industry Canada RSS-Gen §7.2.2**

#### **Test Procedure**

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.

#### **Test Measurement Set up**



Measurement set up for AC Wireline Conducted Emissions Test

#### **Measurement Results for AC Wireline Conducted Emissions (150 kHz – 30 MHz)**

Ambient conditions.

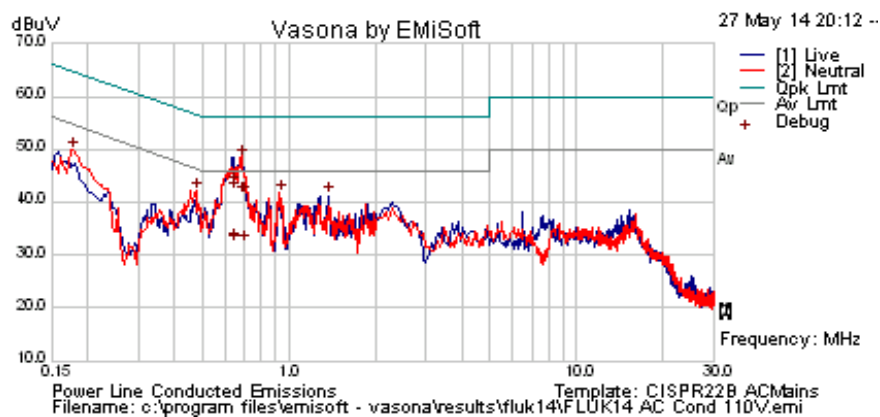
Temperature: 17 to 23 °C      Relative humidity: 31 to 57 %      Pressure: 999 to 1012 mbar



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 133 of 448

## ac/dc Adaptor Wireline Emissions

Test Freq.	N/A	Engineer	JMH
Variant	AC Line Emissions	Temp (°C)	18
Freq. Range	0.150 MHz - 30 MHz	Rel. Hum.(%)	35
Power Setting	NA	Press. (mBars)	1004
Antenna	N/A		
Test Notes 1	115VAC		



## Formally measured emission peaks

Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement Type	Line	Limit dBuV	Margin dB	Pass /Fail	Comments
0.643	32.1	10.0	0.1	42.2	Quasi Peak	Neutral	56	-13.8	Pass	
0.643	22.3	10.0	0.1	32.3	Average	Neutral	46	-13.7	Pass	
0.645	33.1	10.0	0.1	43.1	Quasi Peak	Live	56	-12.9	Pass	
0.645	22.5	10.0	0.1	32.5	Average	Live	46	-13.5	Pass	
0.685	31.4	10.0	0.1	41.4	Average	Live	46	-4.6	Pass	
0.685	38.1	10.0	0.1	48.1	Quasi Peak	Live	56	-7.9	Pass	
0.699	22.2	10.0	0.1	32.3	Average	Neutral	46	-13.7	Pass	
0.699	31.4	10.0	0.1	41.4	Quasi Peak	Neutral	56	-14.6	Pass	
0.476	32.2	9.9	0.1	42.2	Peak [Scan]	Neutral	46.4	-4.2	Pass	
0.929	31.6	9.9	0.1	41.7	Peak [Scan]	Neutral	46	-4.4	Pass	
1.373	31.2	10.0	0.1	41.3	Peak [Scan]	Live	46	-4.8	Pass	
0.176	39.9	9.9	0.1	49.9	Peak [Scan]	Neutral	54.67	-4.8	Pass	
Legend: DIG = Digital Device Emission; TX = Transmitter Emission; FUND = Fundamental Frequency										
NRB = Non-Restricted Band, Limit is 20 dB below Fundamental; RB = Restricted Band										

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 134 of 448

## Specification

### Limit

**§15.207 (a)** Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu\Omega$  line impedance stabilization network (LISN), see §15.207 (a) matrix below. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

#### **RSS-Gen §7.2.2**

The radio frequency voltage that is conducted back into the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table below. The tighter limit applies at the frequency range boundaries.

#### **§15.207 (a)** and **RSS-Gen §7.2.2** Limit Matrix

The lower limit applies at the boundary between frequency ranges

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency

## Laboratory Measurement Uncertainty for Conducted Emissions

Measurement uncertainty	$\pm 2.64$ dB
-------------------------	---------------

## Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-EMC-01 'Measurement of Conducted Emissions'	0158, 0184, 0287, 0190, 0293, 0307

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

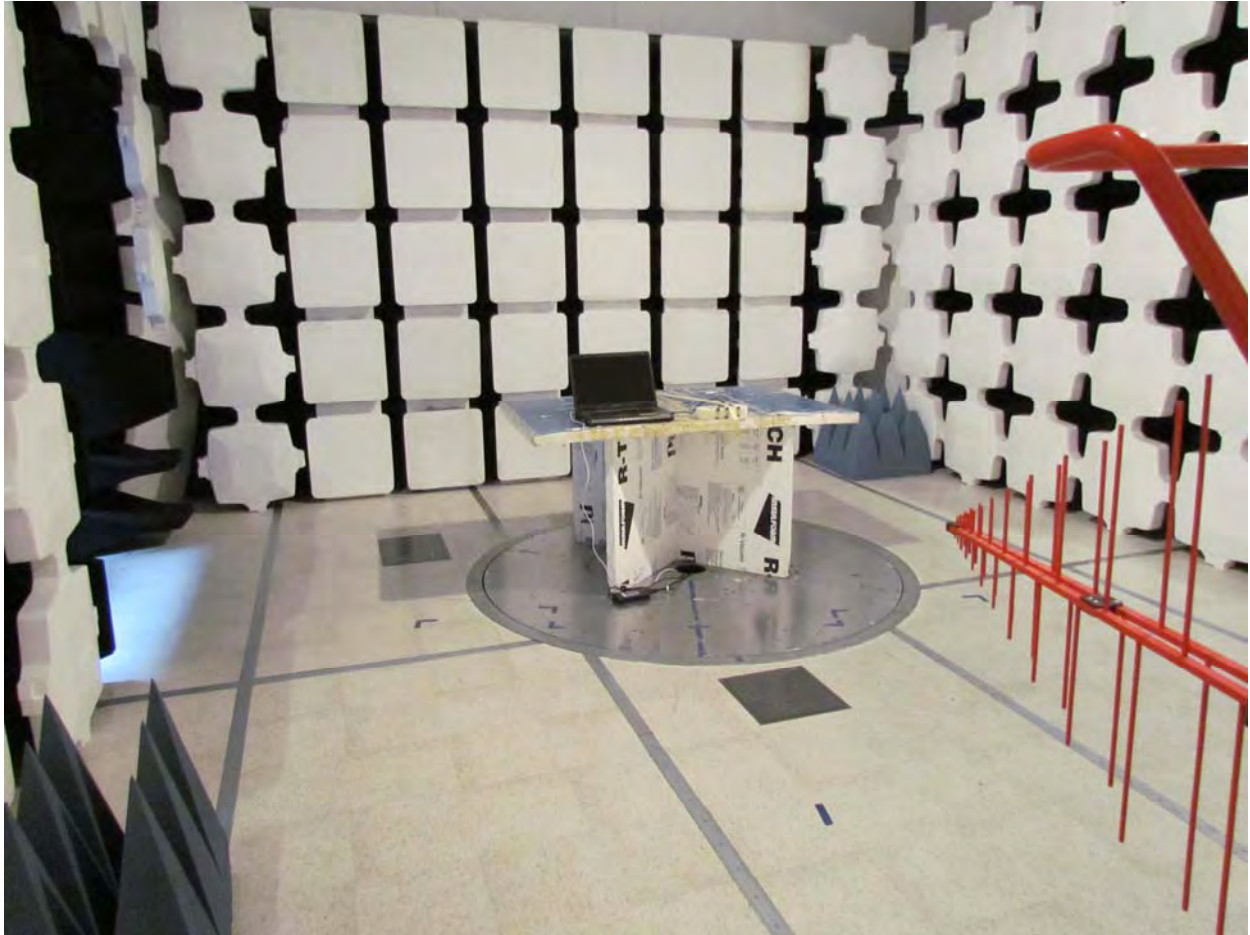
## 6. PHOTOGRAPHS

### 6.1. Conducted Test Setup



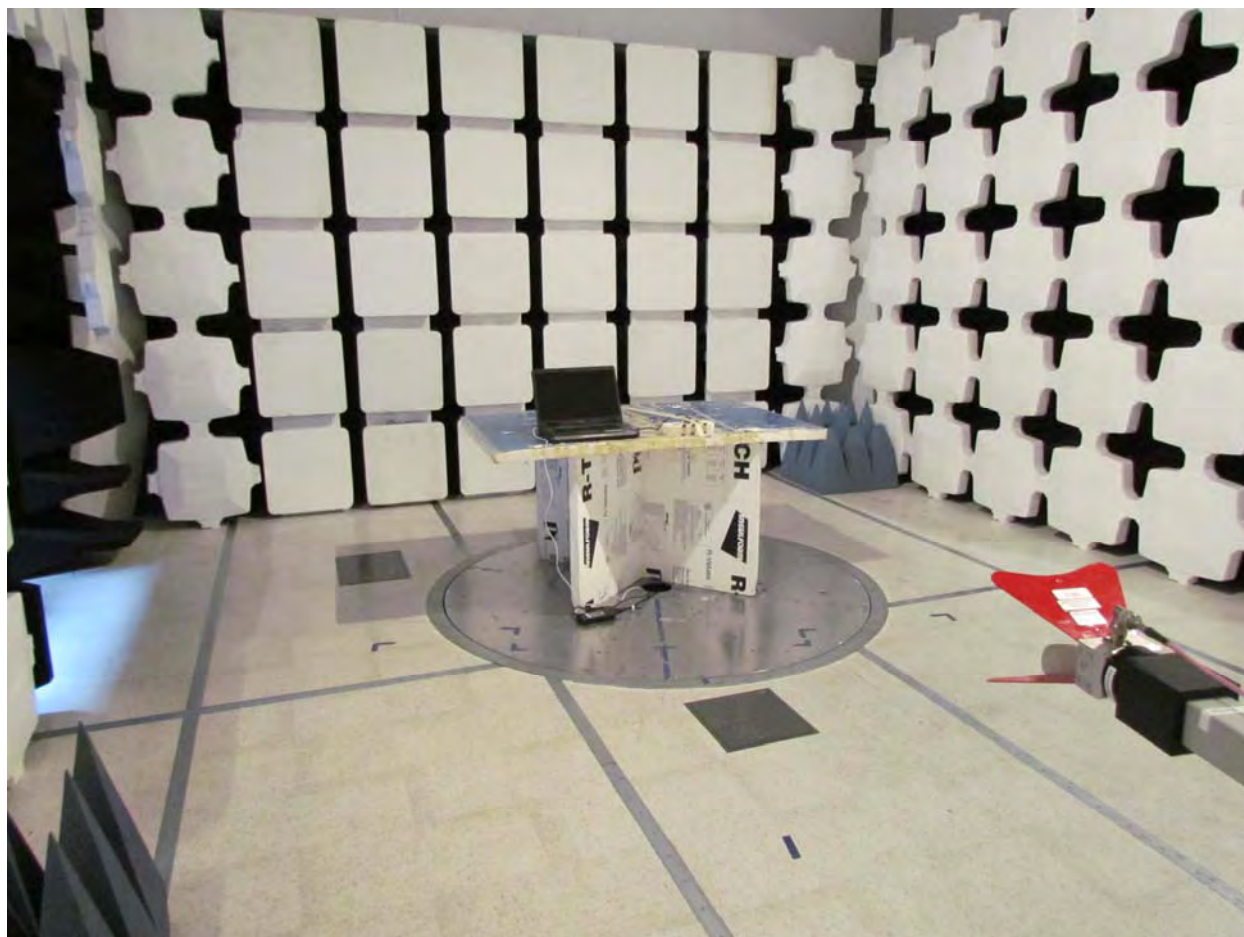


## 6.2. Radiated Emissions < 1 GHz





### 6.3. Radiated Emissions > 1 GHz





**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 138 of 448

## 7. TEST EQUIPMENT

Asset #	Instrument	Manufacturer	Part #	Serial #	Calibration Due Date
0117	Power Sensor	Hewlett Packard	8487D	3318A00371	18 <sup>th</sup> Oct 14
0223	Power Meter	Hewlett Packard	EPM-442A	US37480256	18 <sup>th</sup> Oct 14
0376	Power Sensor	Agilent	U2000A	MY51440005	28 <sup>th</sup> Oct 14
0390	Power Sensor	Agilent	U2002A	MY50000103	17 <sup>th</sup> Oct 14
0158	Barometer /Thermometer	Control Co.	4196	E2846	6 <sup>th</sup> Dec 14
0287	EMI Receiver	Rhode & Schwartz	ESIB40	100201	31 <sup>st</sup> Jul 14
0378	EMI Receiver	Rhode & Schwartz	ESIB40	100107/040	17 <sup>th</sup> Jul 14
0338	30 - 3000 MHz Antenna	Sunol	JB3	A052907	14 <sup>th</sup> Aug 14
0399	1-18 GHz Horn Antenna	EMCO	3117	00154575	10 <sup>th</sup> Oct 14
0252	SMA Cable	Megaphase	Sucoflex 104	None	N/A
0310	2m SMA Cable	Micro-Coax	UFA210A-0-0787-3G03G0	209089-001	N/A
0312	3m SMA Cable	Micro-Coax	UFA210A-1-1181-3G0300	209092-001	N/A
0314	30dB N-Type Attenuator	ARRA	N9444-30	1623	N/A
0359	DFS Test System	Aeroflex	PXI-1042	300001/004	21 <sup>st</sup> Oct 14
0299	DFS Test Software	Aeroflex	PXIModule	Version 7.1.0	N/A
0502	EMC Test Software	EMISoft	Vasona	5.0051	N/A
0503	RF Conducted Test Software	National Instruments	Labview	Version 8.2	N/A
0398	RF Conducted Test Software	MiCOM Labs ATS	--	Version 1.8	N/A
0380	RF Switch	MiCOM Labs	MIC001	MIC001	20 <sup>th</sup> Sept 14

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 139 of 448

---

## **APPENDIX**

### **A. SUPPORTING INFORMATION**

#### **A.1. CONDUCTED TEST PLOTS**

---

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



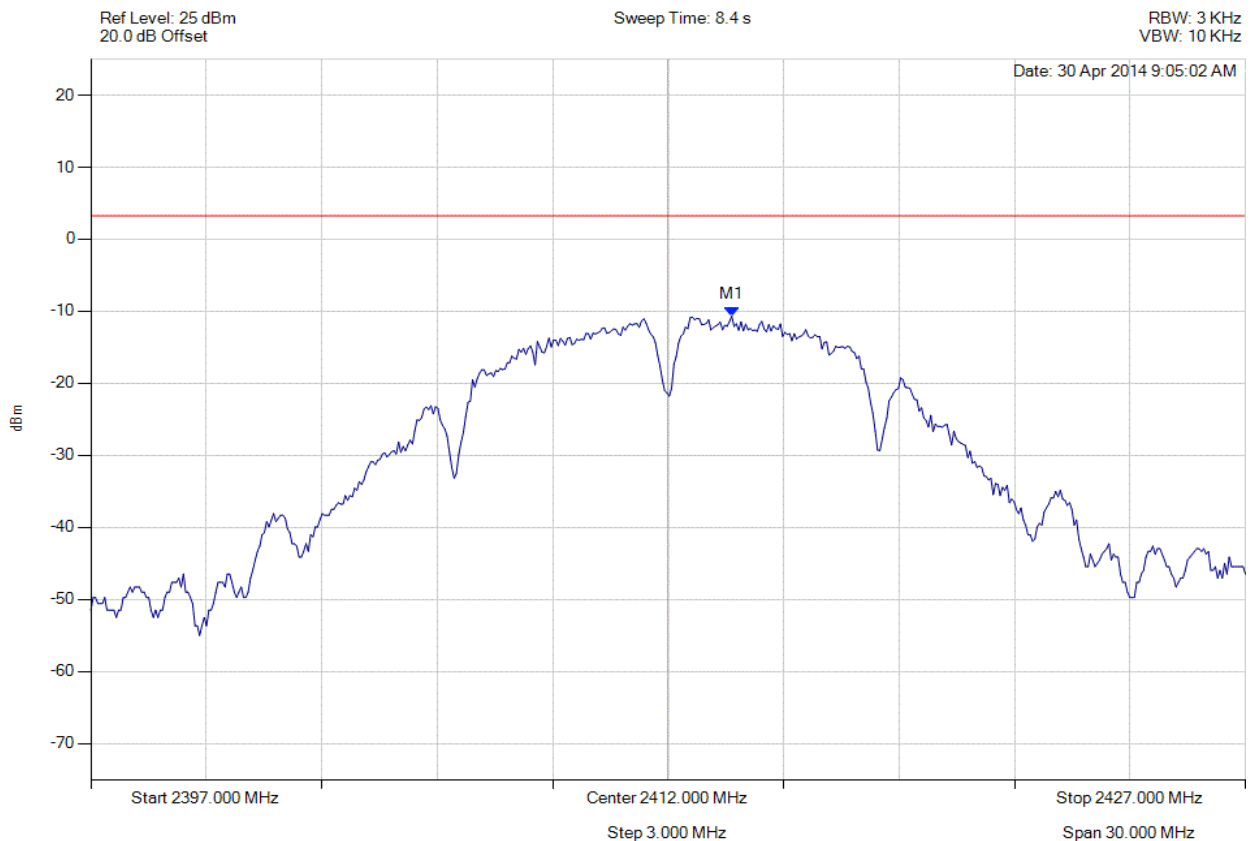
**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 140 of 448

### A.1.1. Power Spectral Density



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2412.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2413.653 MHz : -10.670 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

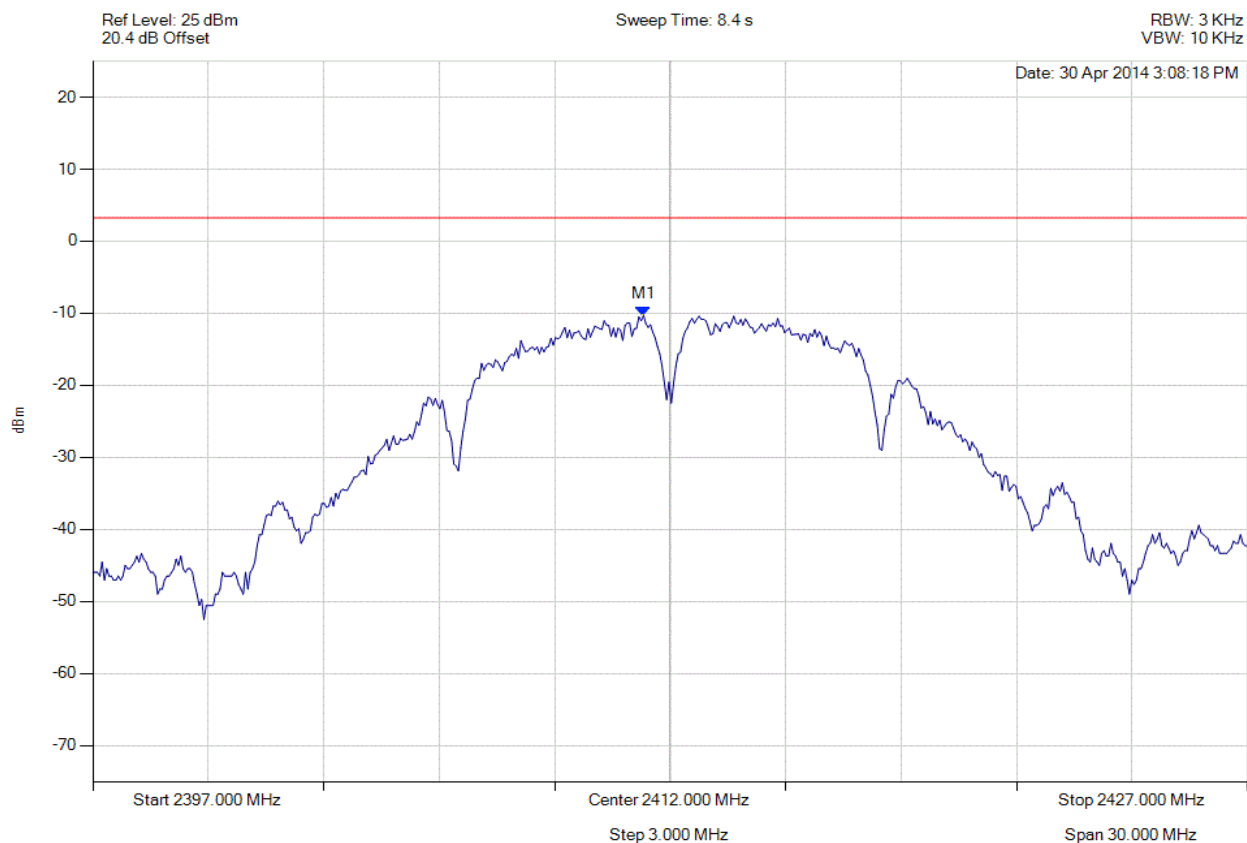


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 141 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2412.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2411.309 MHz : -10.325 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

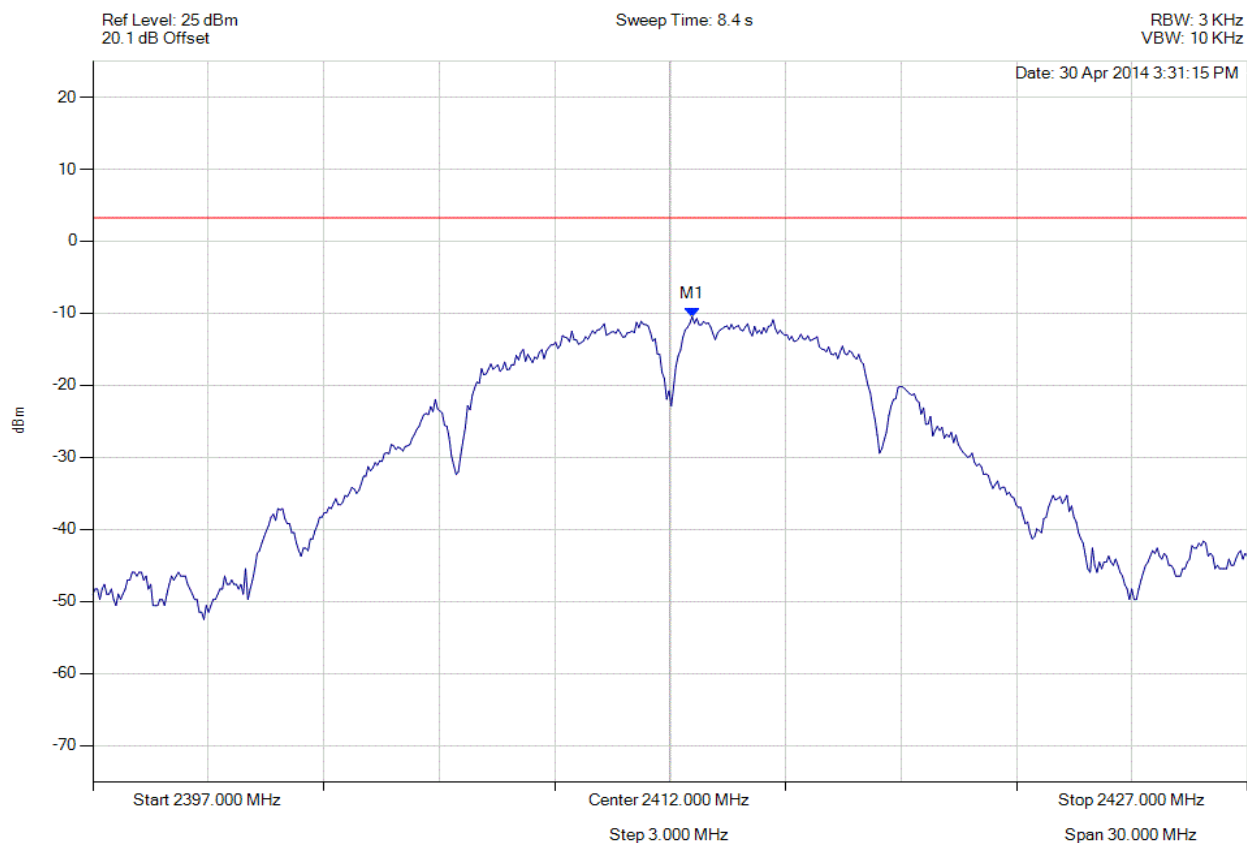


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 142 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2412.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2412.571 MHz : -10.462 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

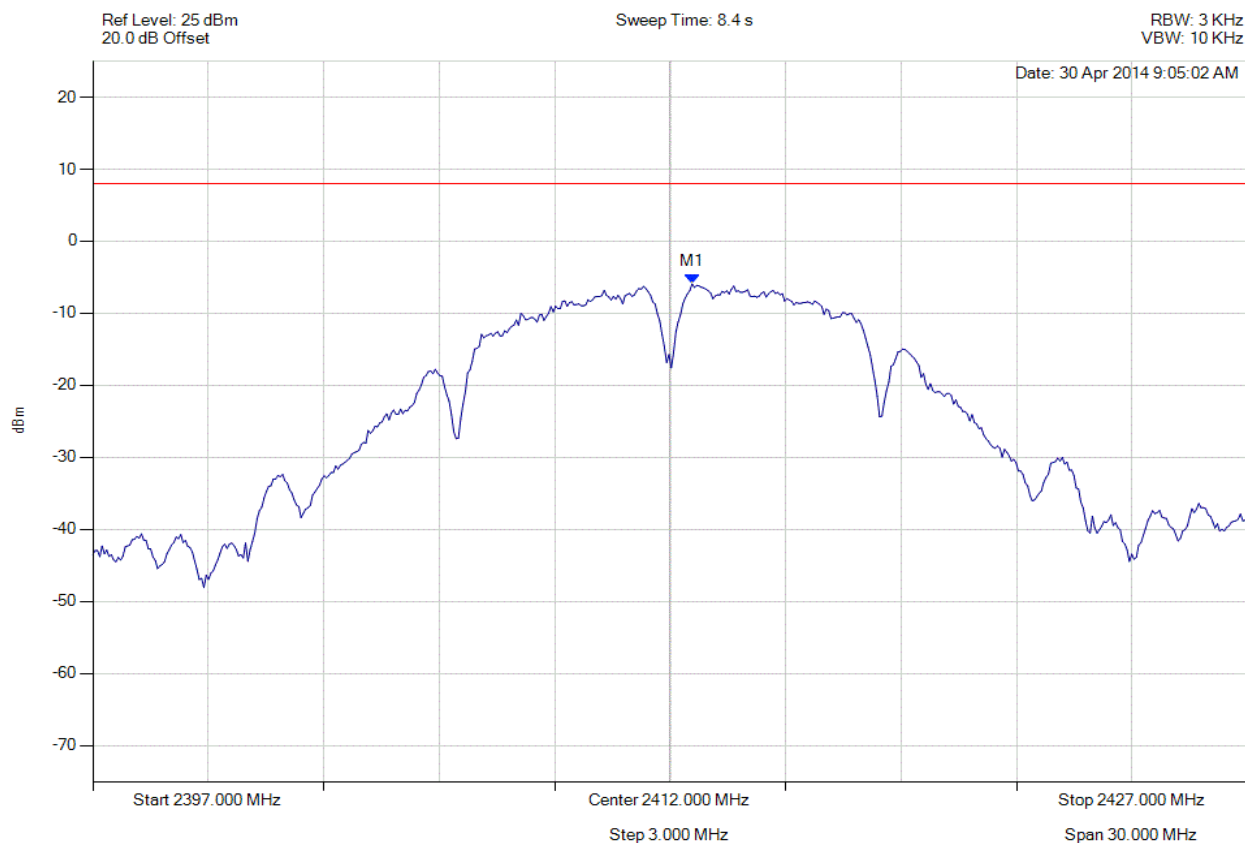


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 143 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2412.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2412.600 MHz : -5.924 dBm M1 + DCCF : 2412.600 MHz : -5.880 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: $\leq 8.0$ dBm Margin: -13.9 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

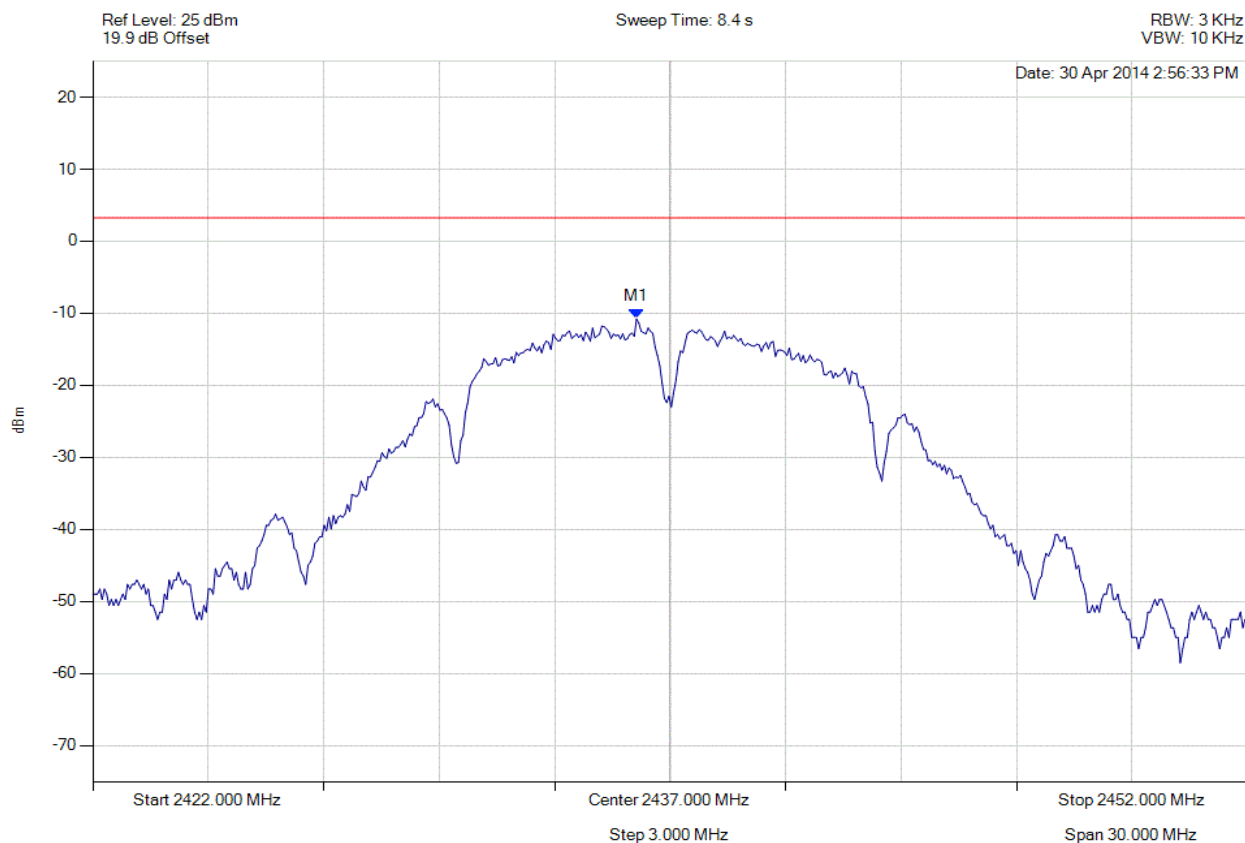


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 144 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2437.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2436.128 MHz : -10.776 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



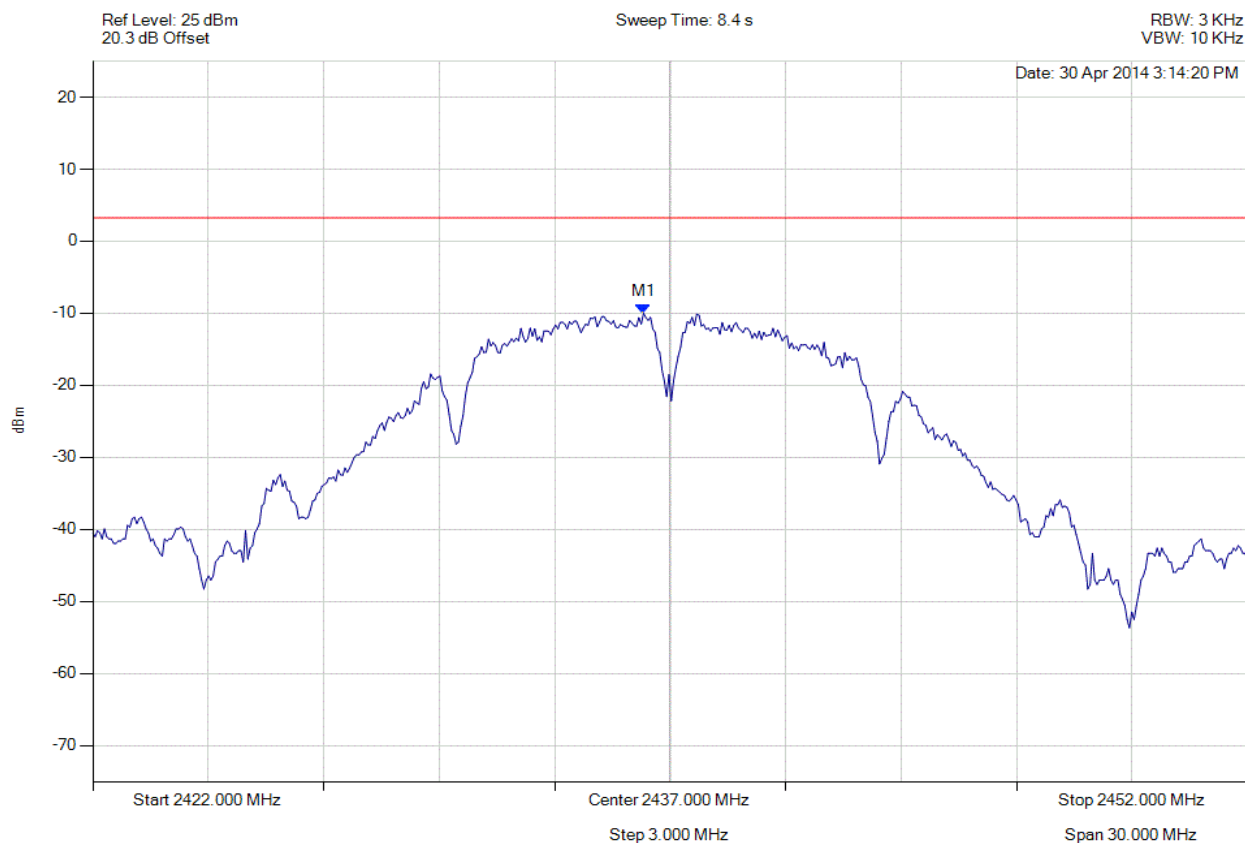


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 145 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2437.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2436.309 MHz : -10.002 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

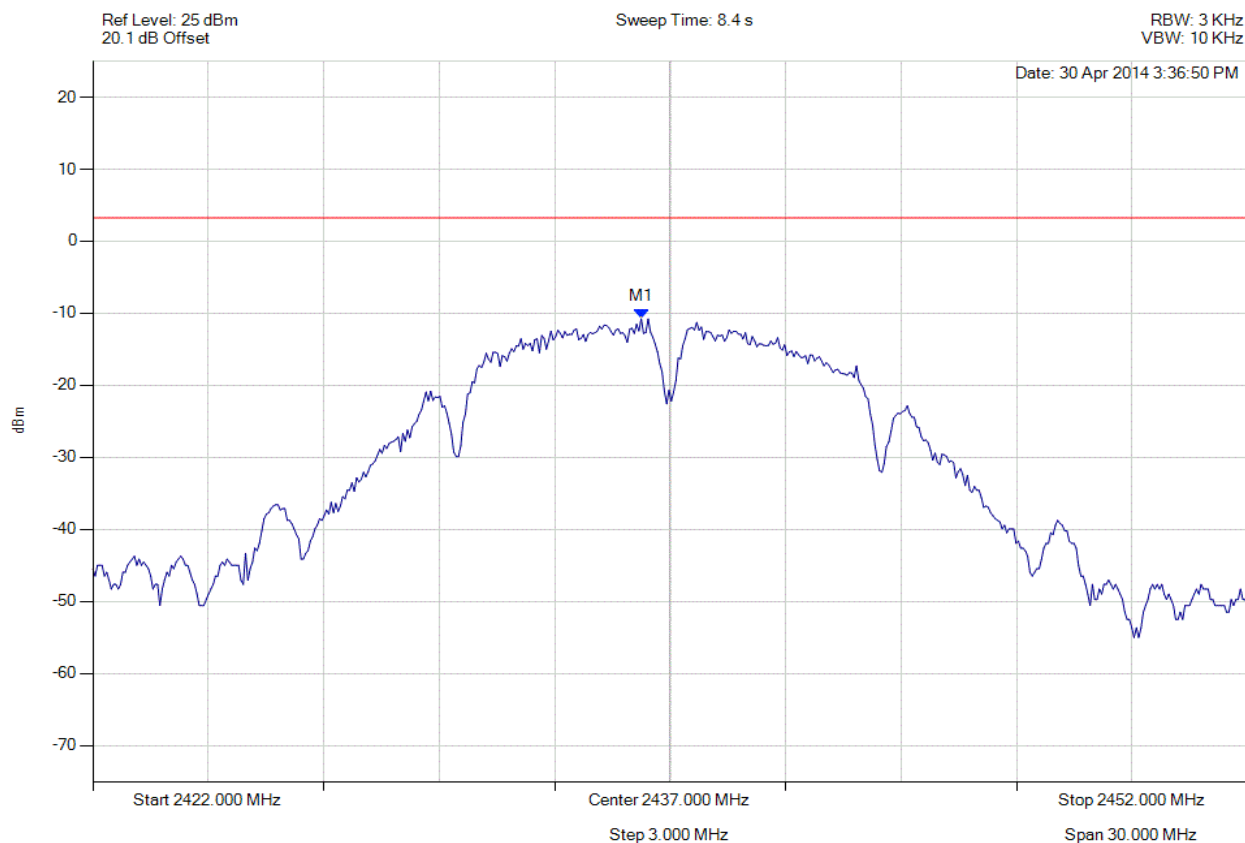


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 146 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2437.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2436.248 MHz : -10.767 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

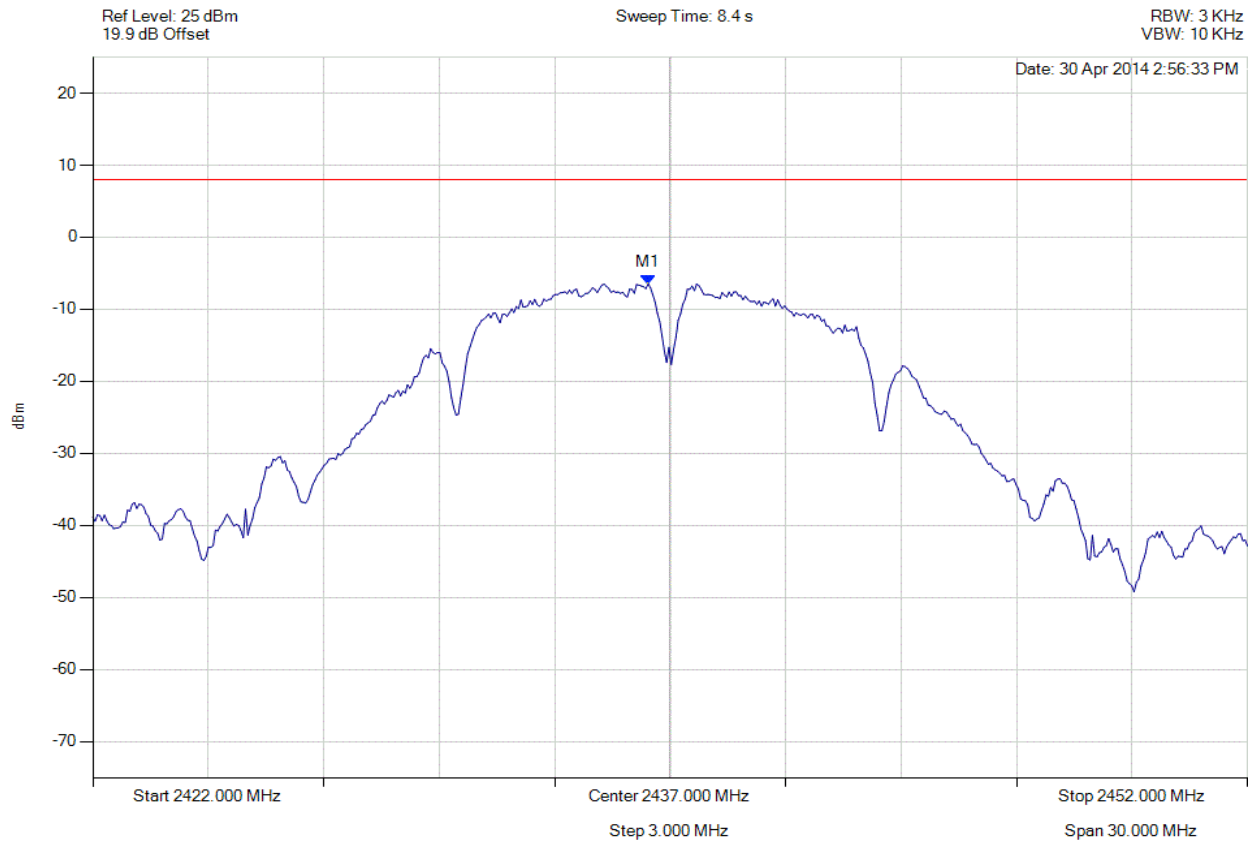


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 147 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2437.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2436.400 MHz : -6.467 dBm M1 + DCCF : 2436.400 MHz : -6.423 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: $\leq 8.0$ dBm Margin: -14.4 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

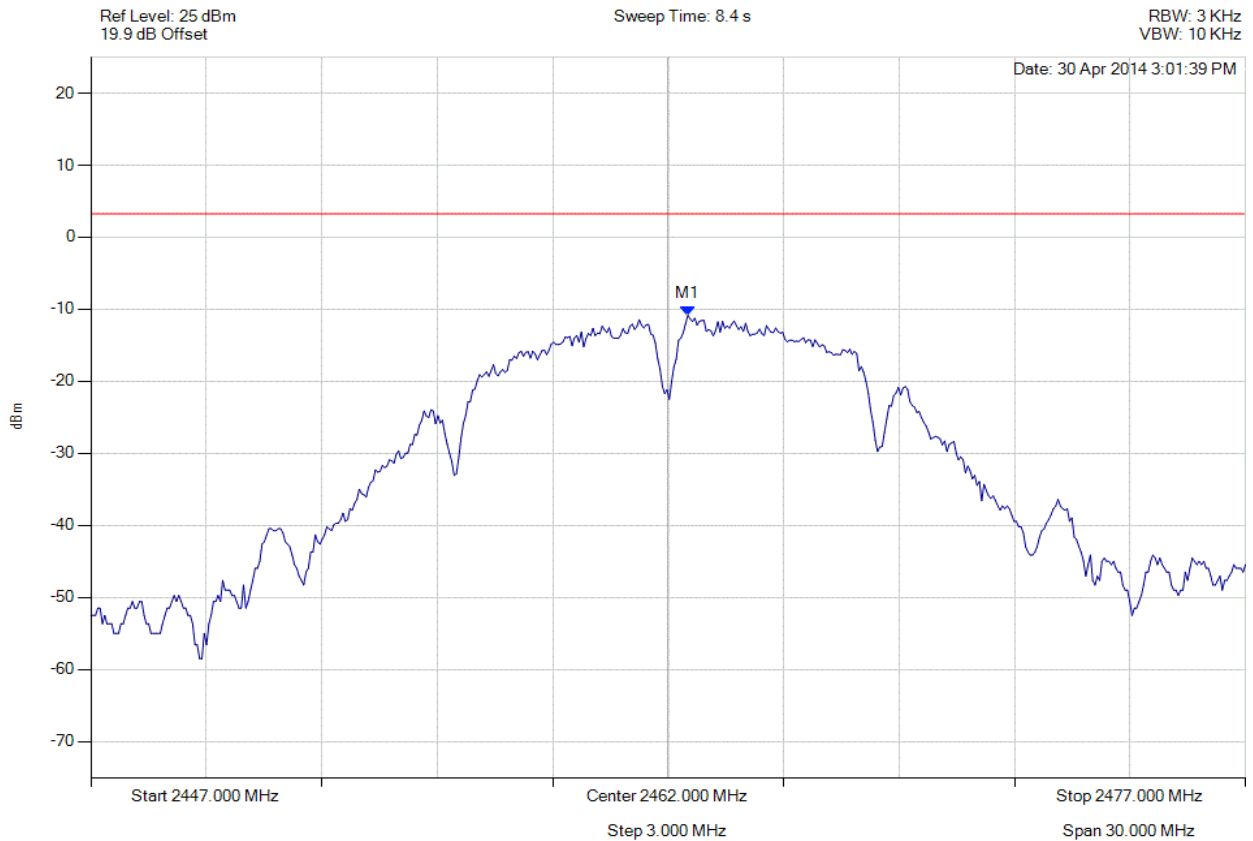


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 148 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2462.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2462.511 MHz : -10.839 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

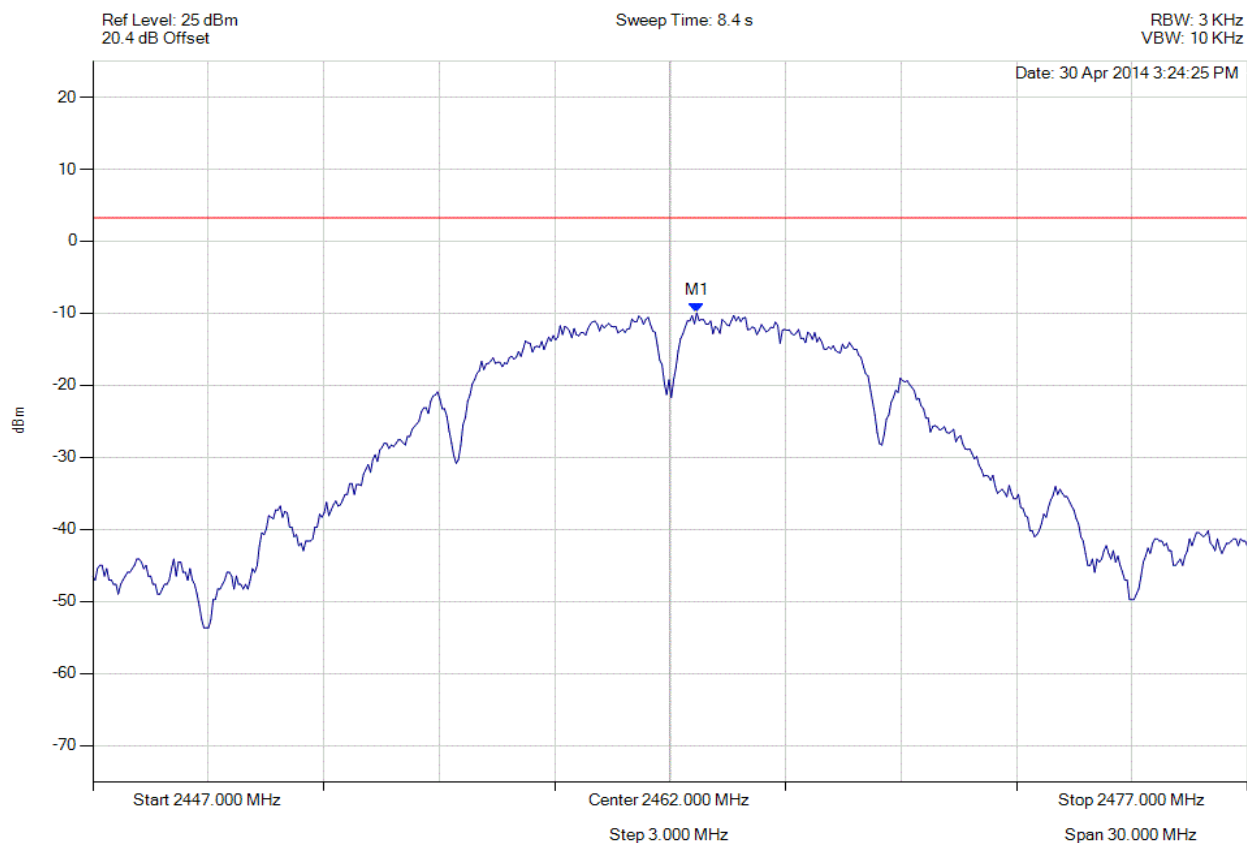


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 149 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2462.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2462.691 MHz : -9.945 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

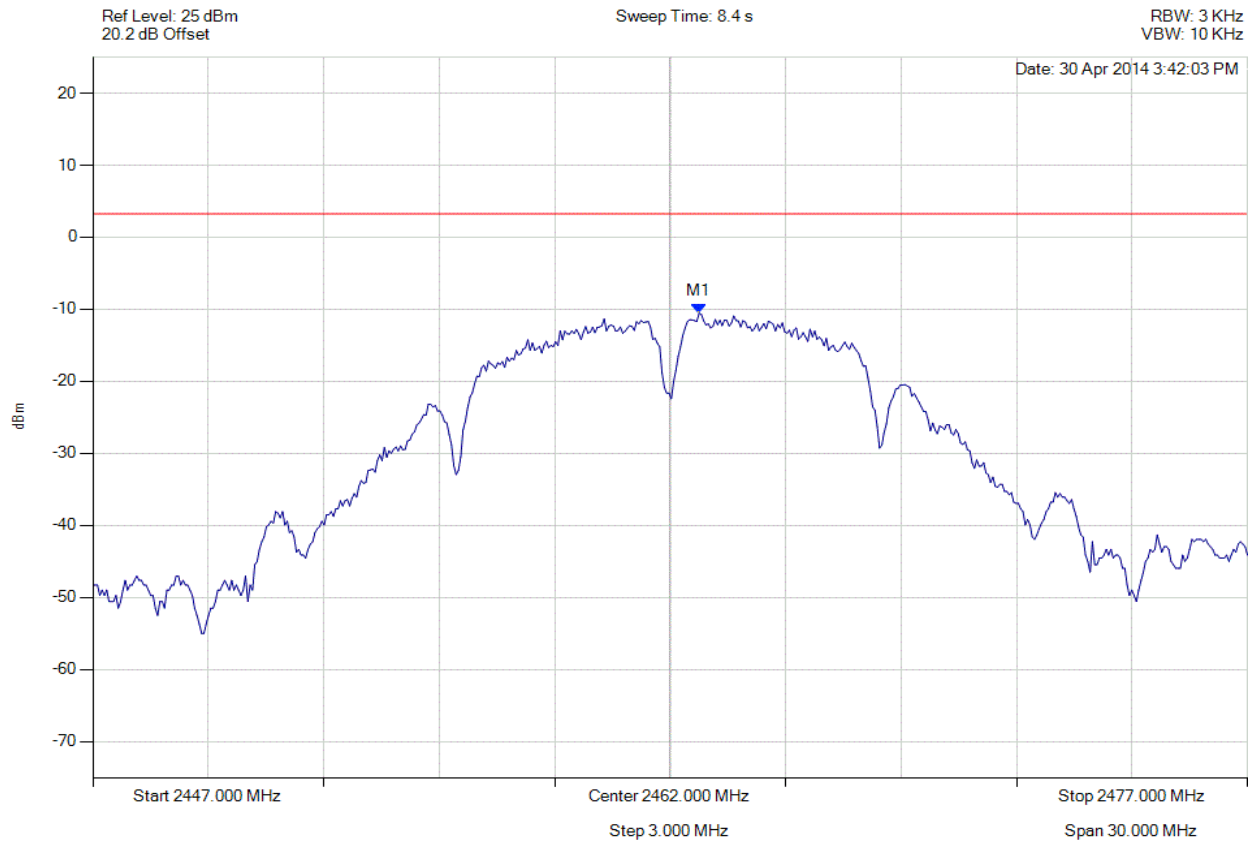


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 150 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2462.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2462.752 MHz : -10.539 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

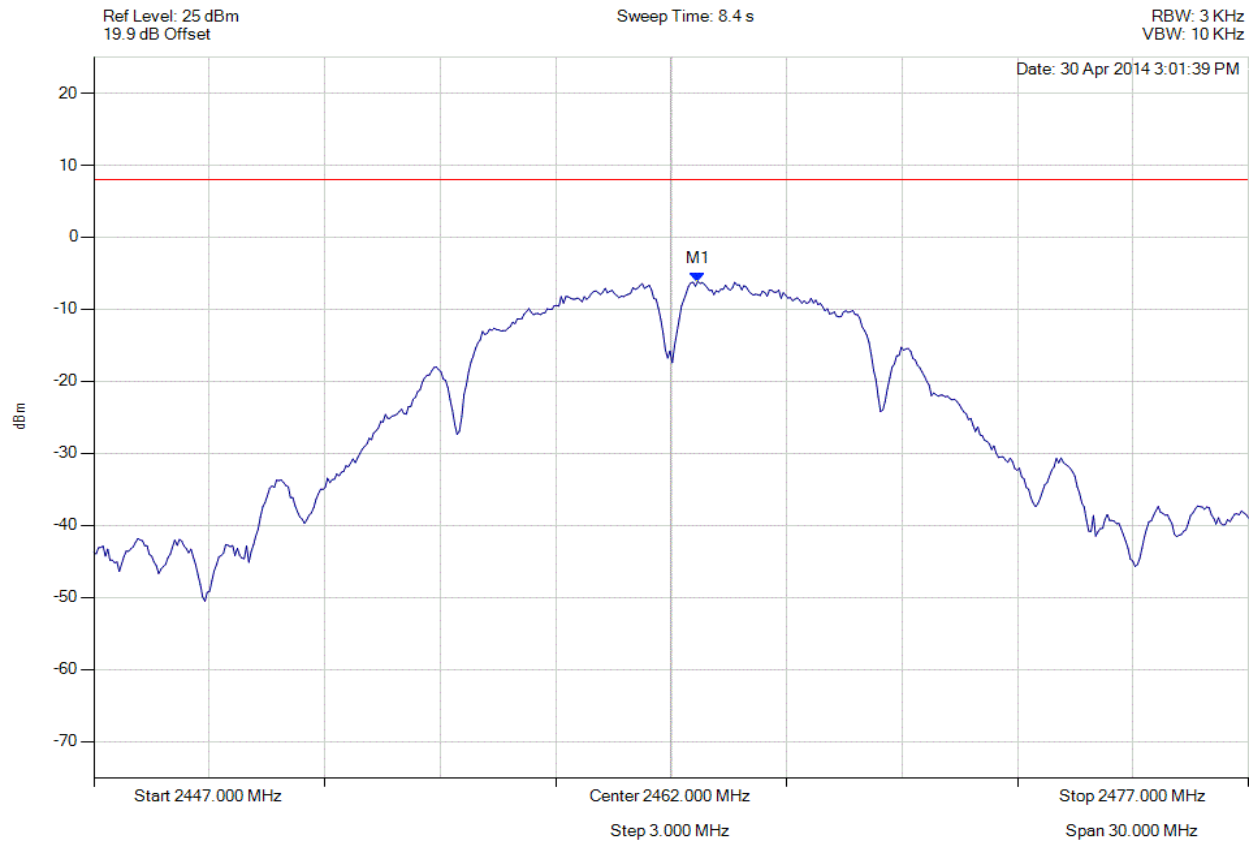


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 151 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11b, Channel: 2462.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2462.700 MHz : -6.128 dBm M1 + DCCF : 2462.700 MHz : -6.084 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: $\leq 8.0$ dBm Margin: -14.1 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

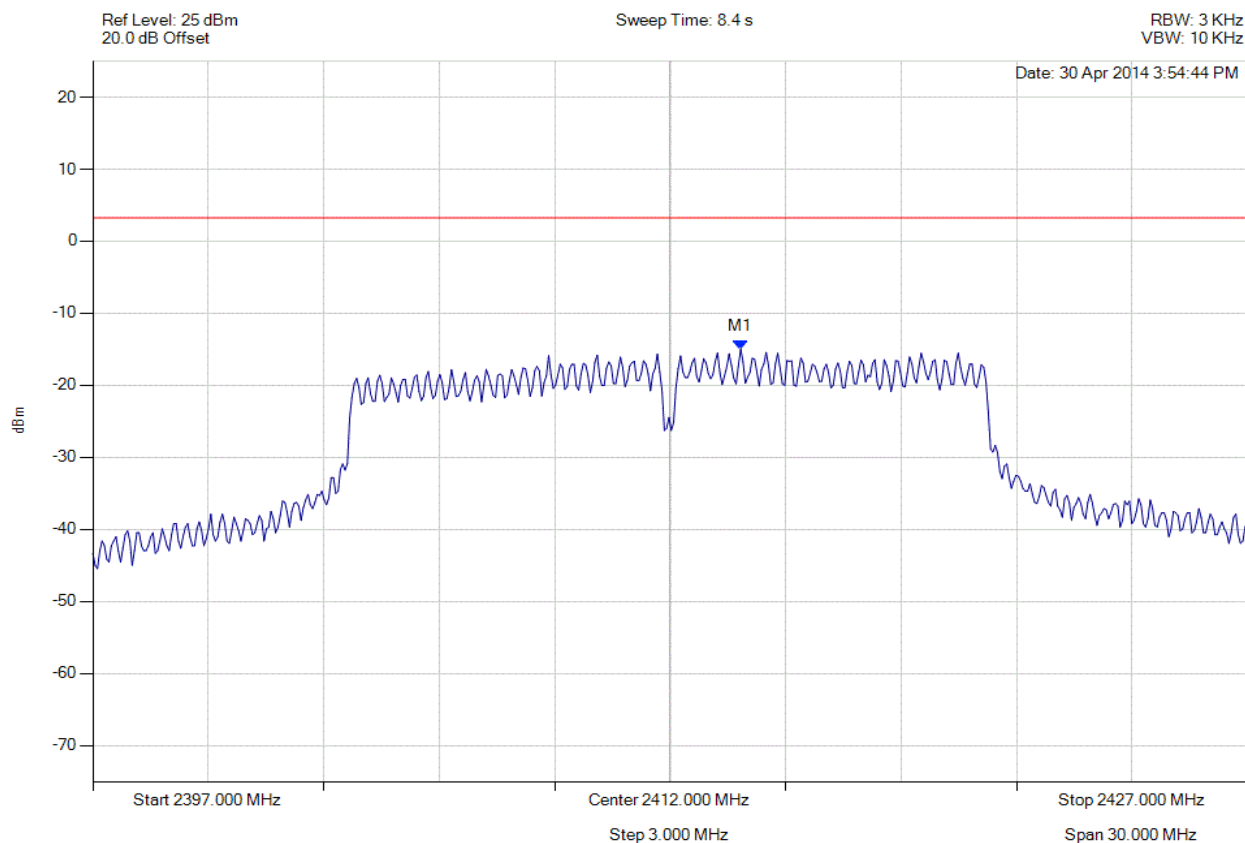


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 152 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2412.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2413.834 MHz : -14.959 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



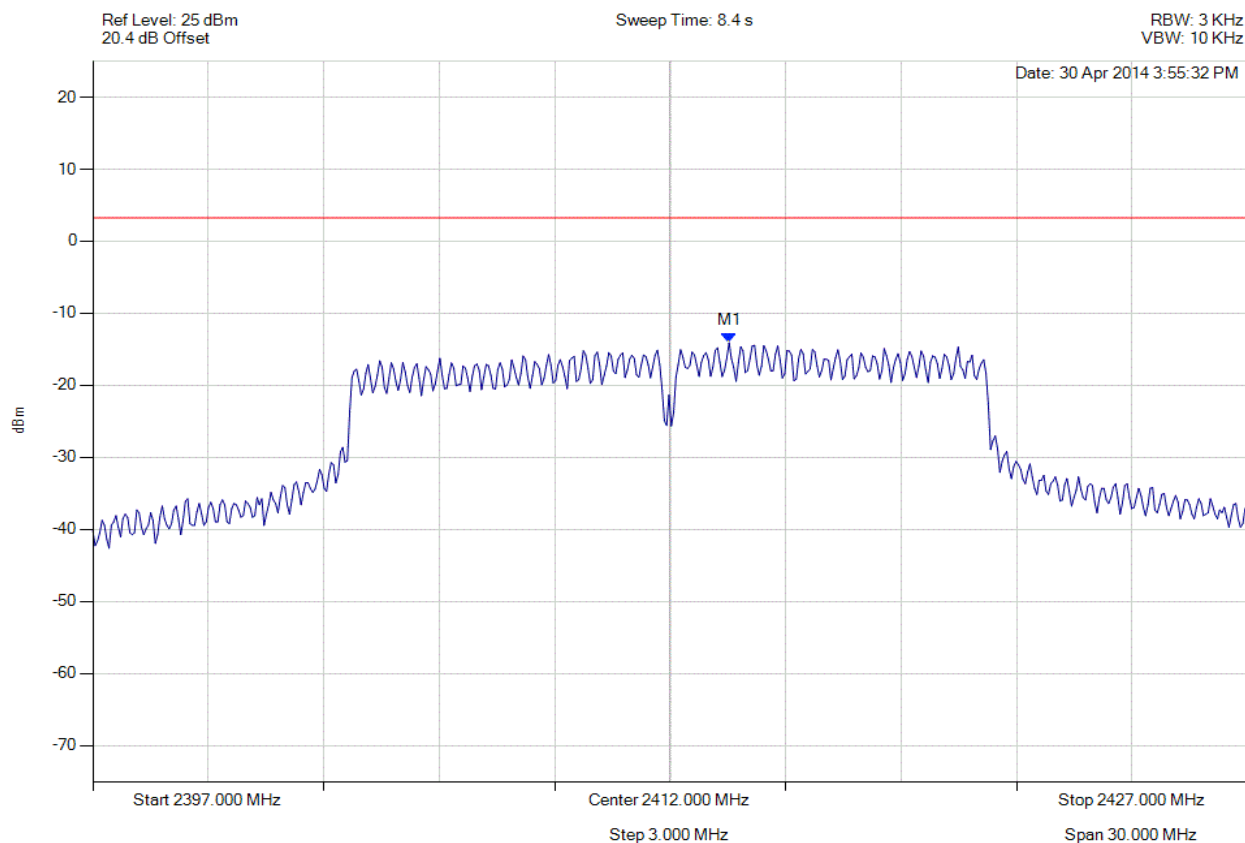


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 153 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2412.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2413.533 MHz : -14.096 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

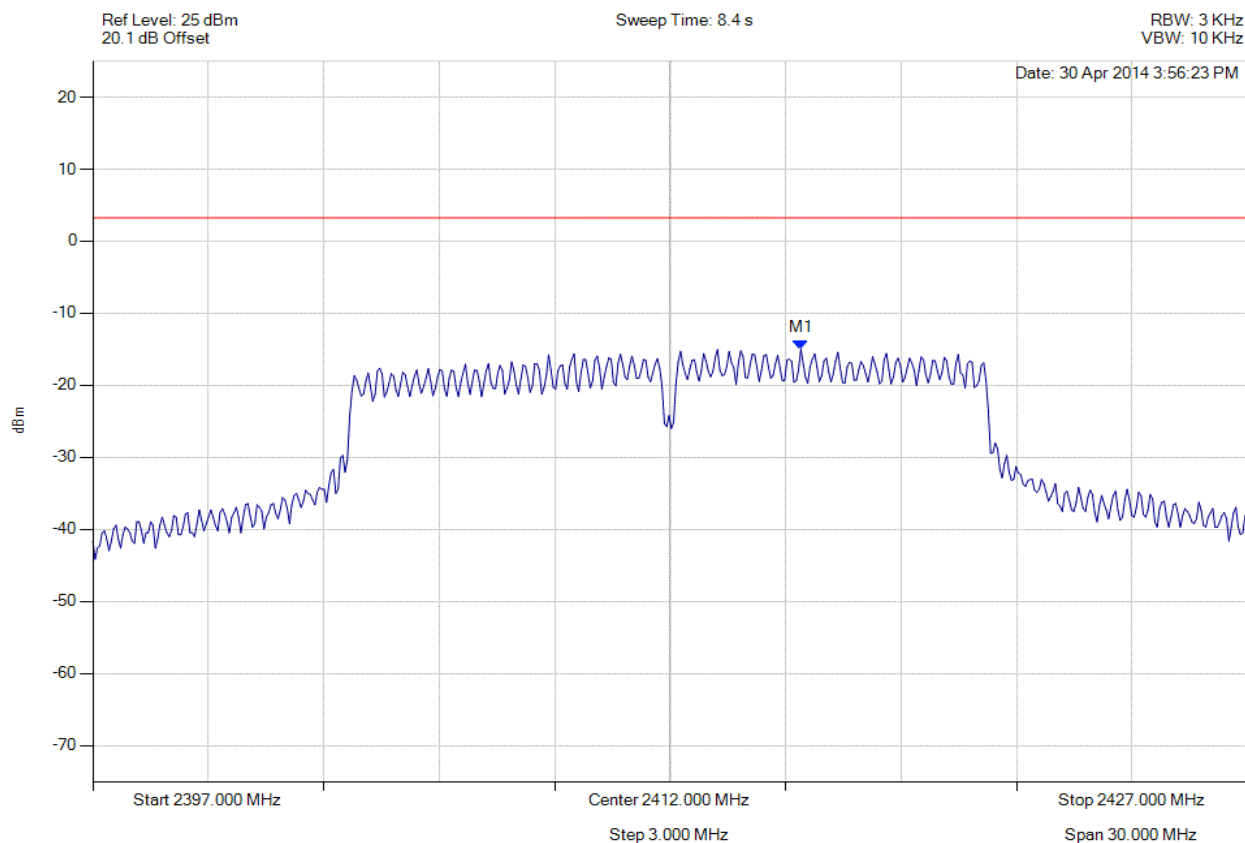


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 154 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2412.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2415.397 MHz : -14.973 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

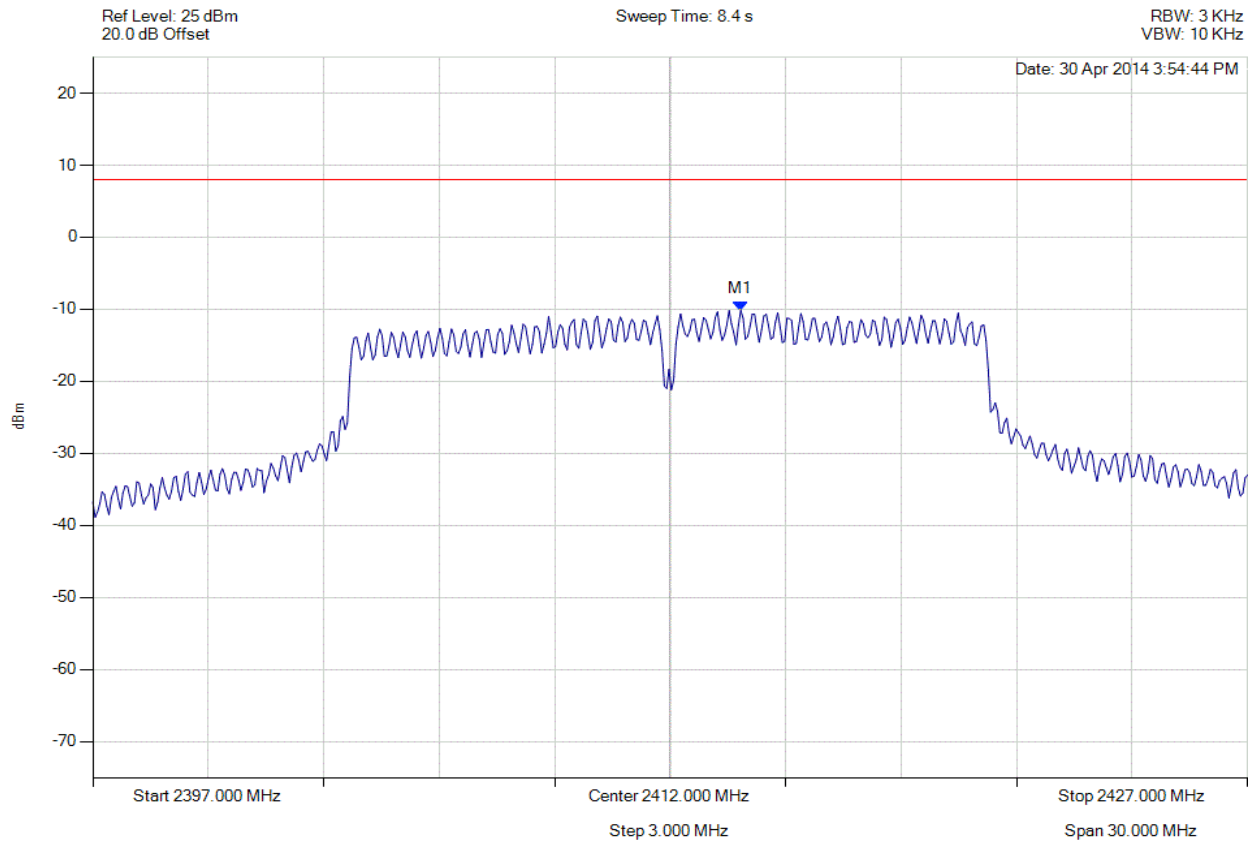


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 155 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2412.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2413.800 MHz : -10.175 dBm M1 + DCCF : 2413.800 MHz : -9.905 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -17.9 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

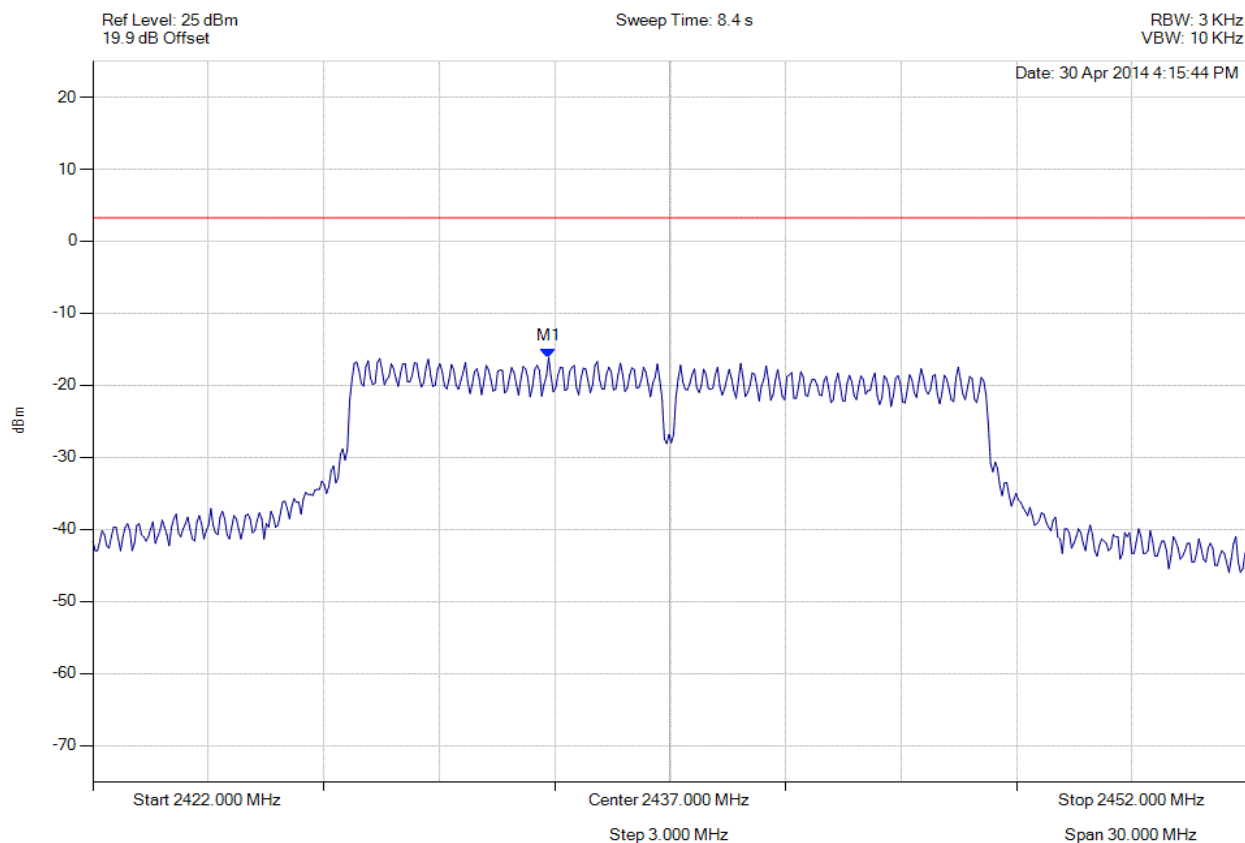


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 156 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2437.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2433.844 MHz : -16.146 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

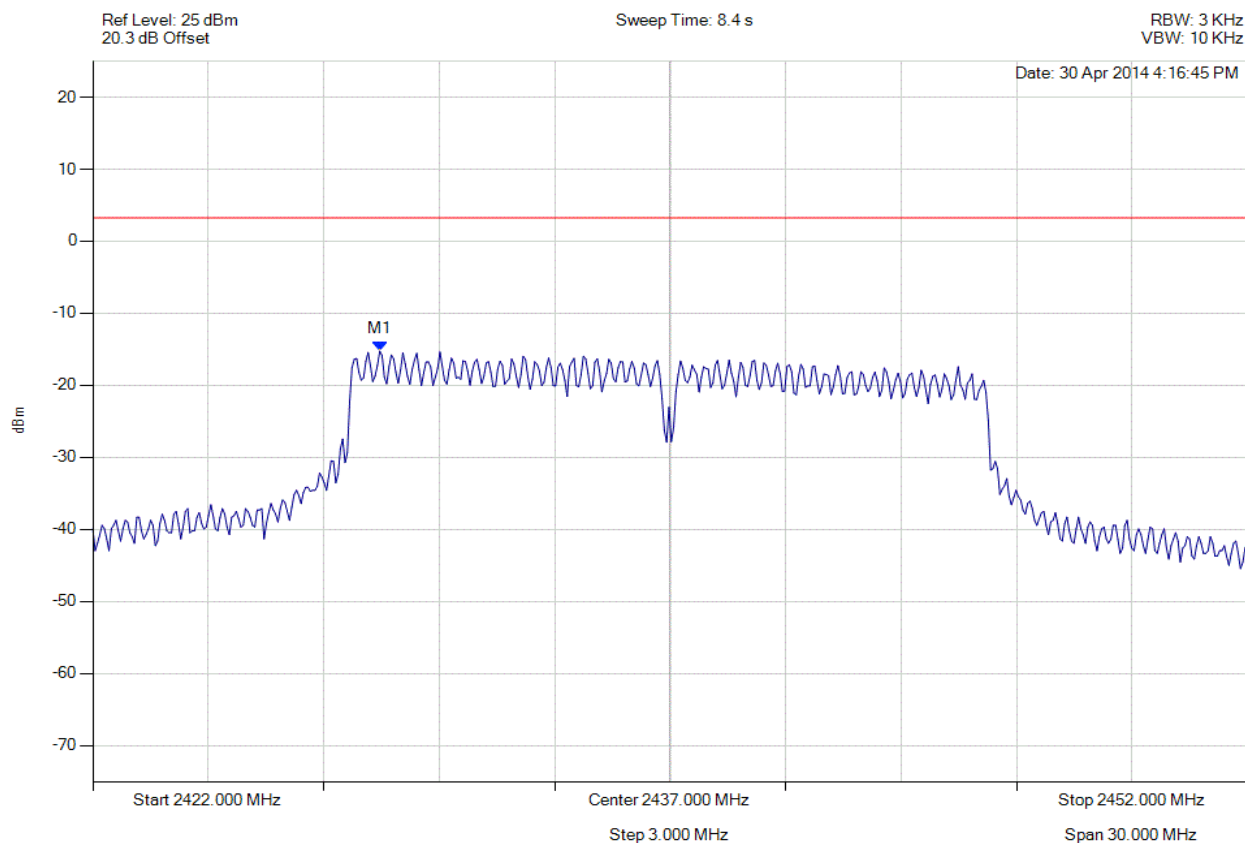


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 157 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2437.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2429.455 MHz : -15.267 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

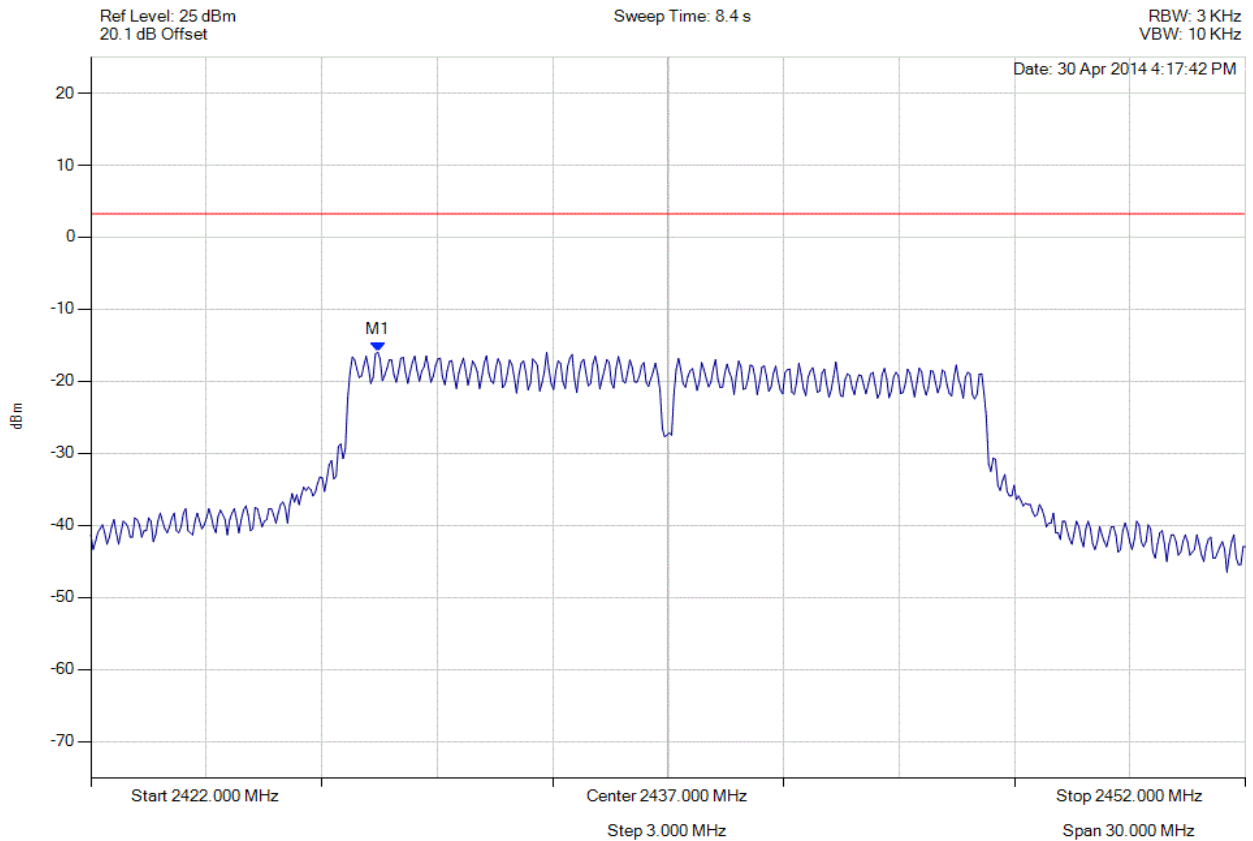


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 158 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2437.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2429.455 MHz : -15.950 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

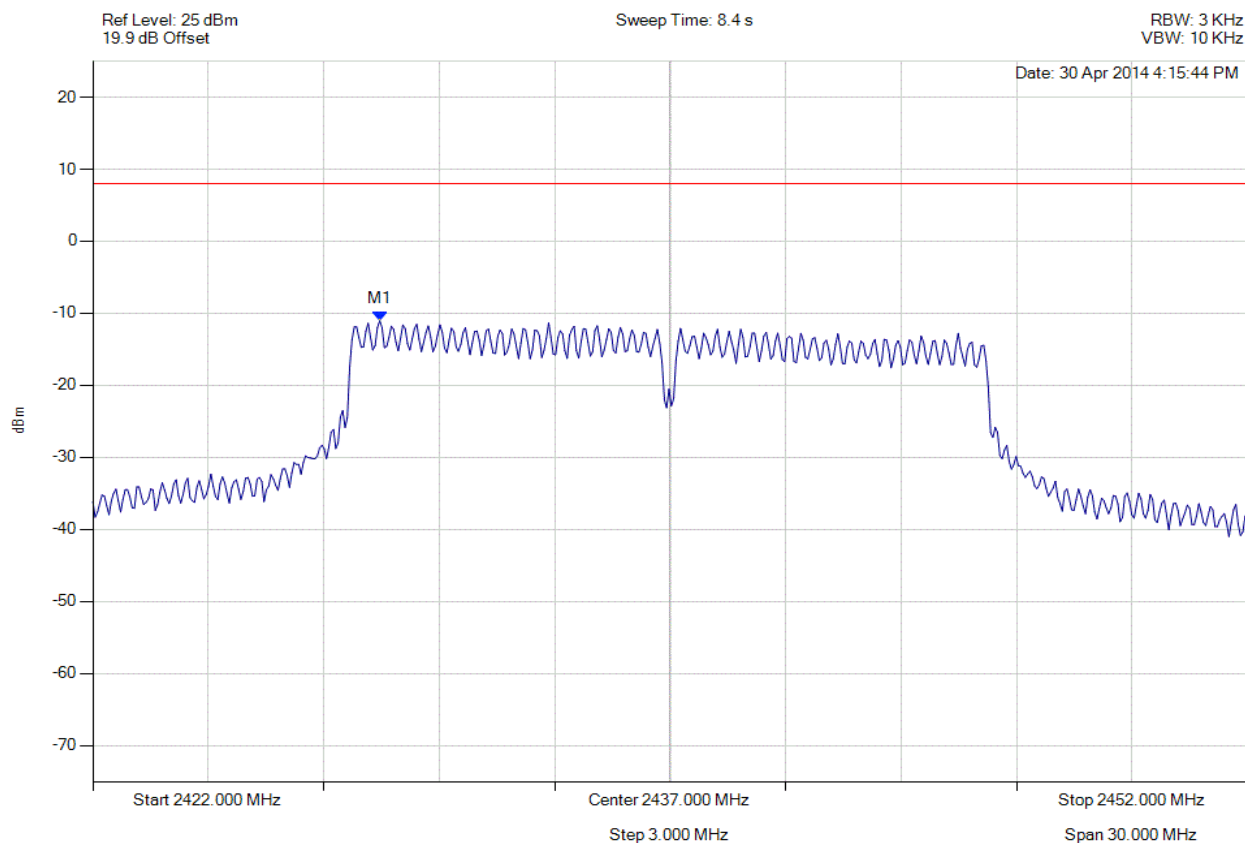


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 159 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2437.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2429.500 MHz : -11.040 dBm M1 + DCCF : 2429.500 MHz : -10.770 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -18.7 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

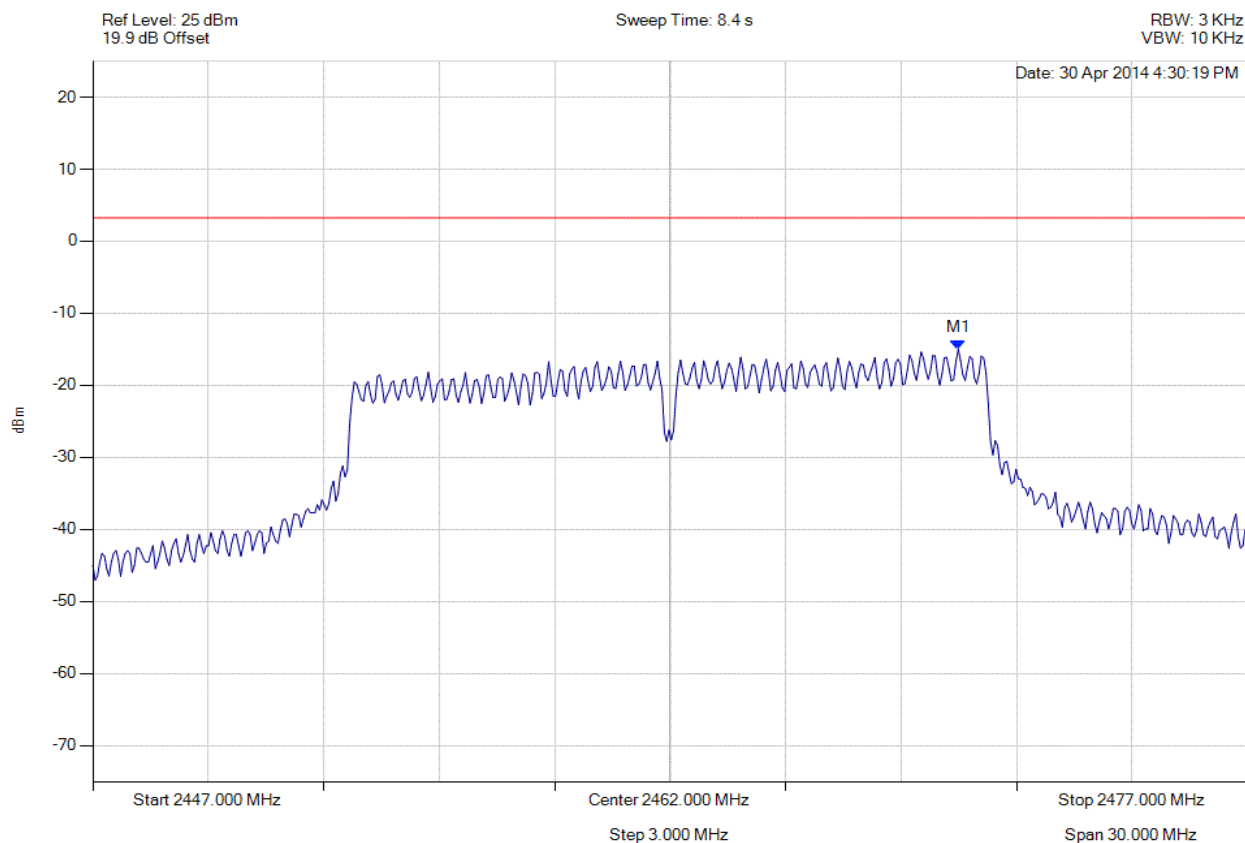


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 160 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2462.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.485 MHz : -15.002 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



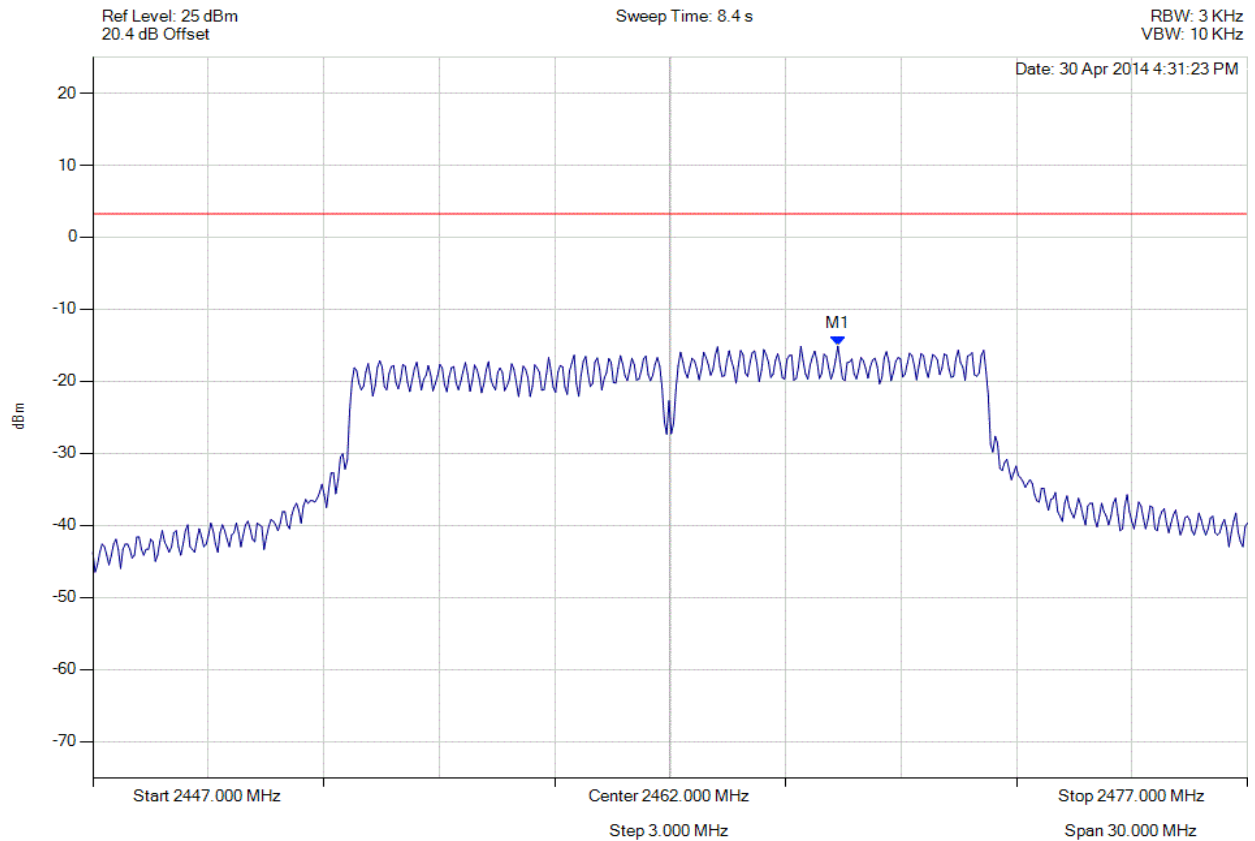


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 161 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2462.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2466.359 MHz : -15.119 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

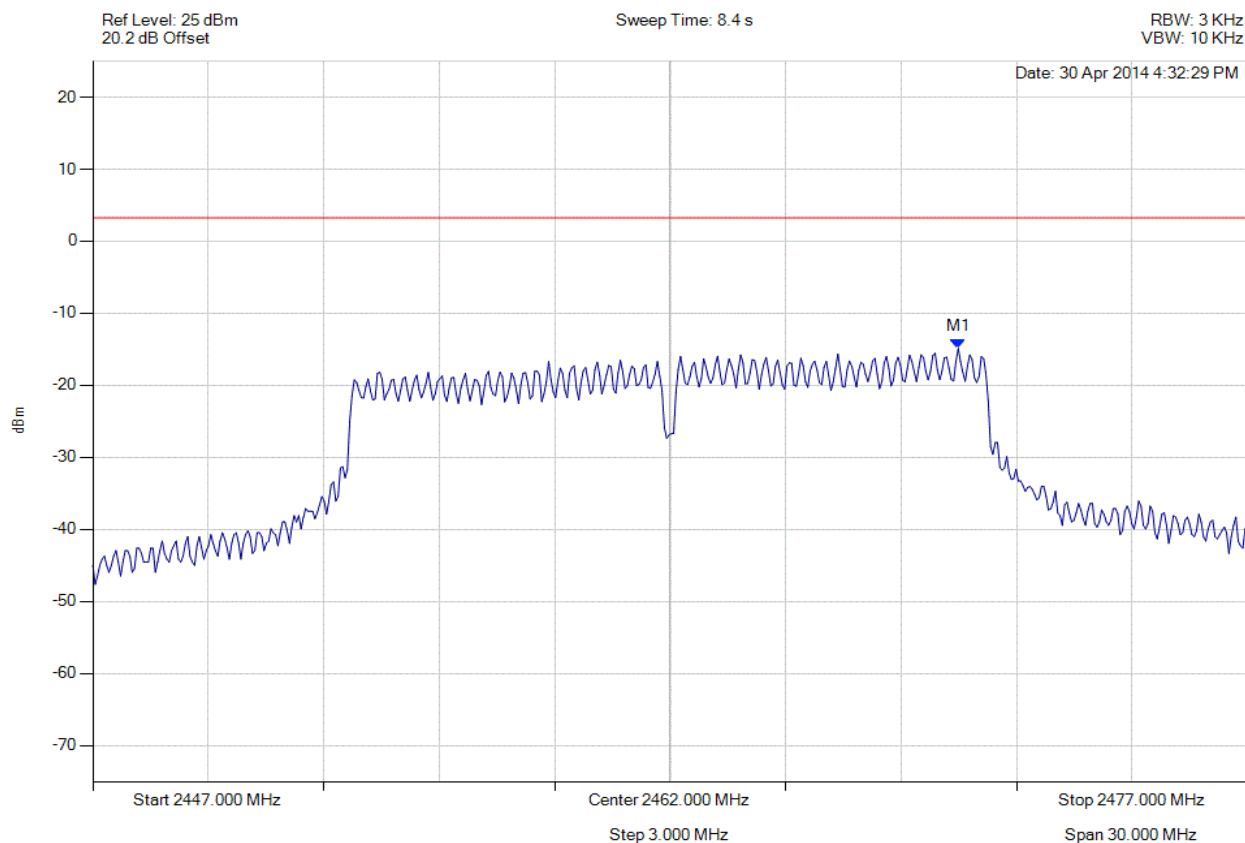


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 162 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2462.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.485 MHz : -14.902 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

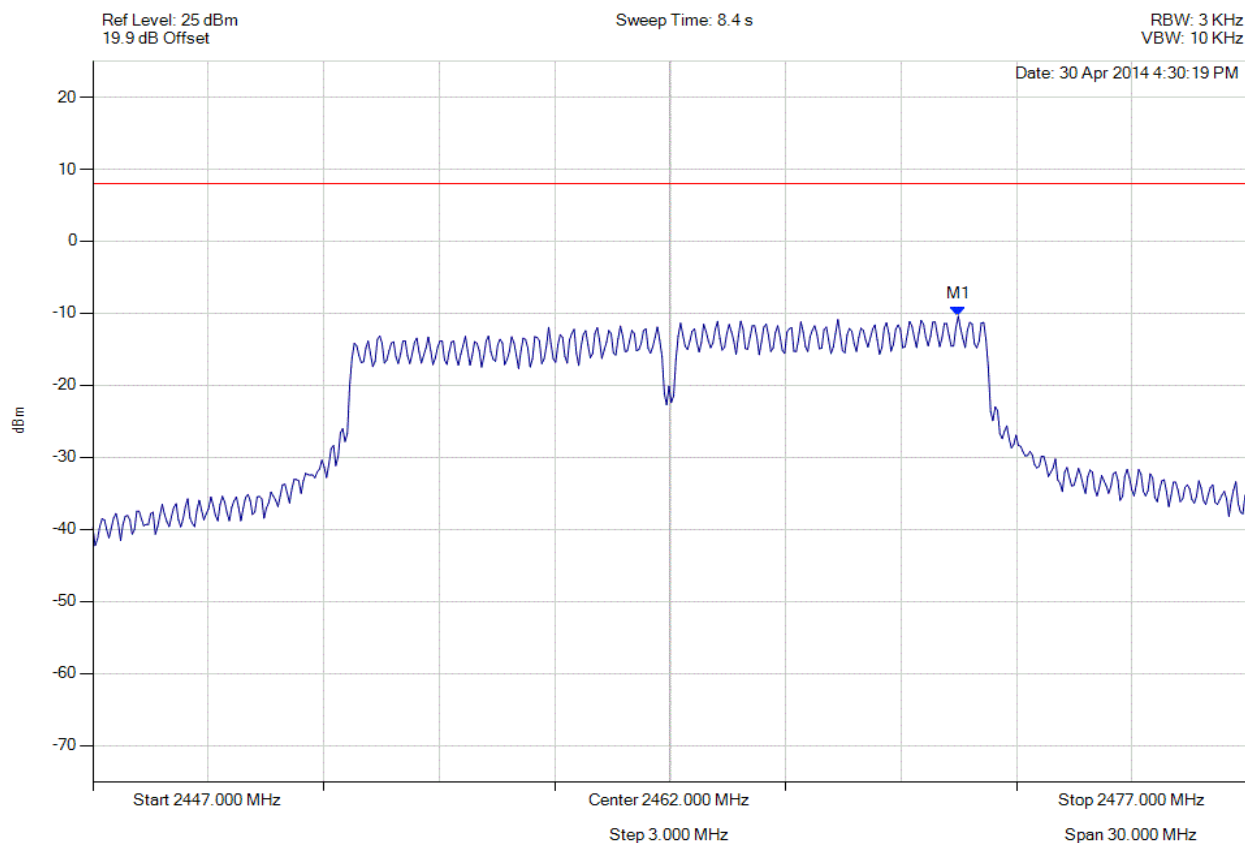


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 163 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11g, Channel: 2462.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.500 MHz : -10.414 dBm M1 + DCCF : 2469.500 MHz : -10.144 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -18.1 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

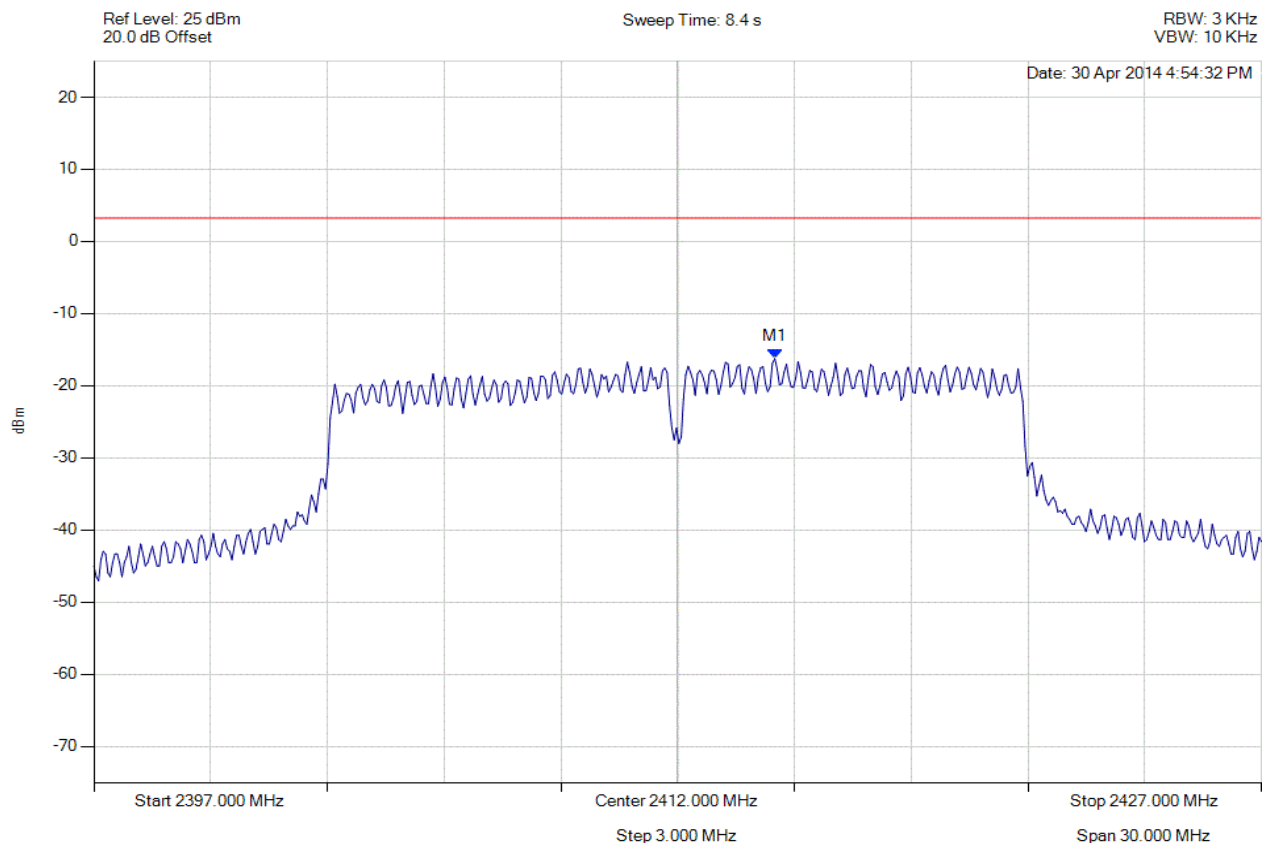


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 164 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2412.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2414.495 MHz : -16.245 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

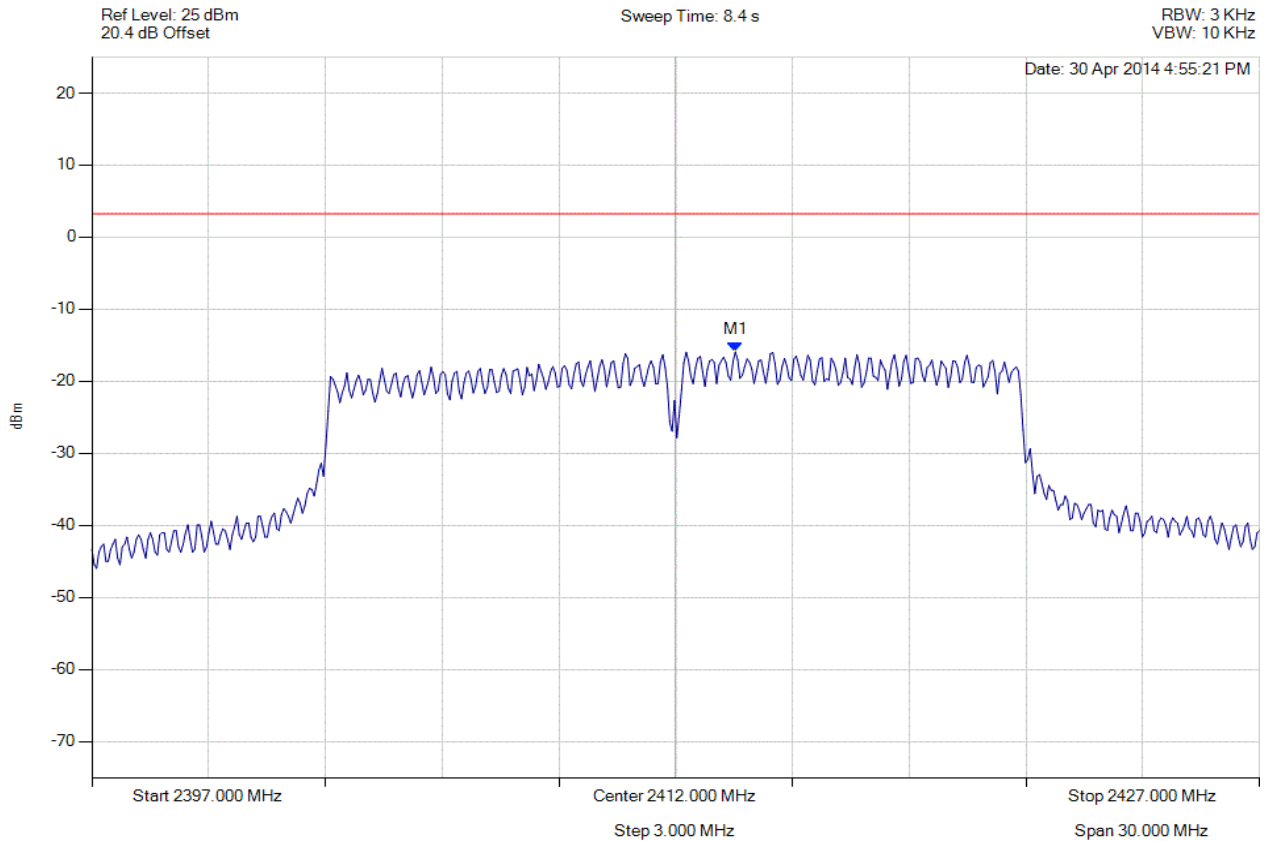


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 165 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2412.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2413.533 MHz : -15.917 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

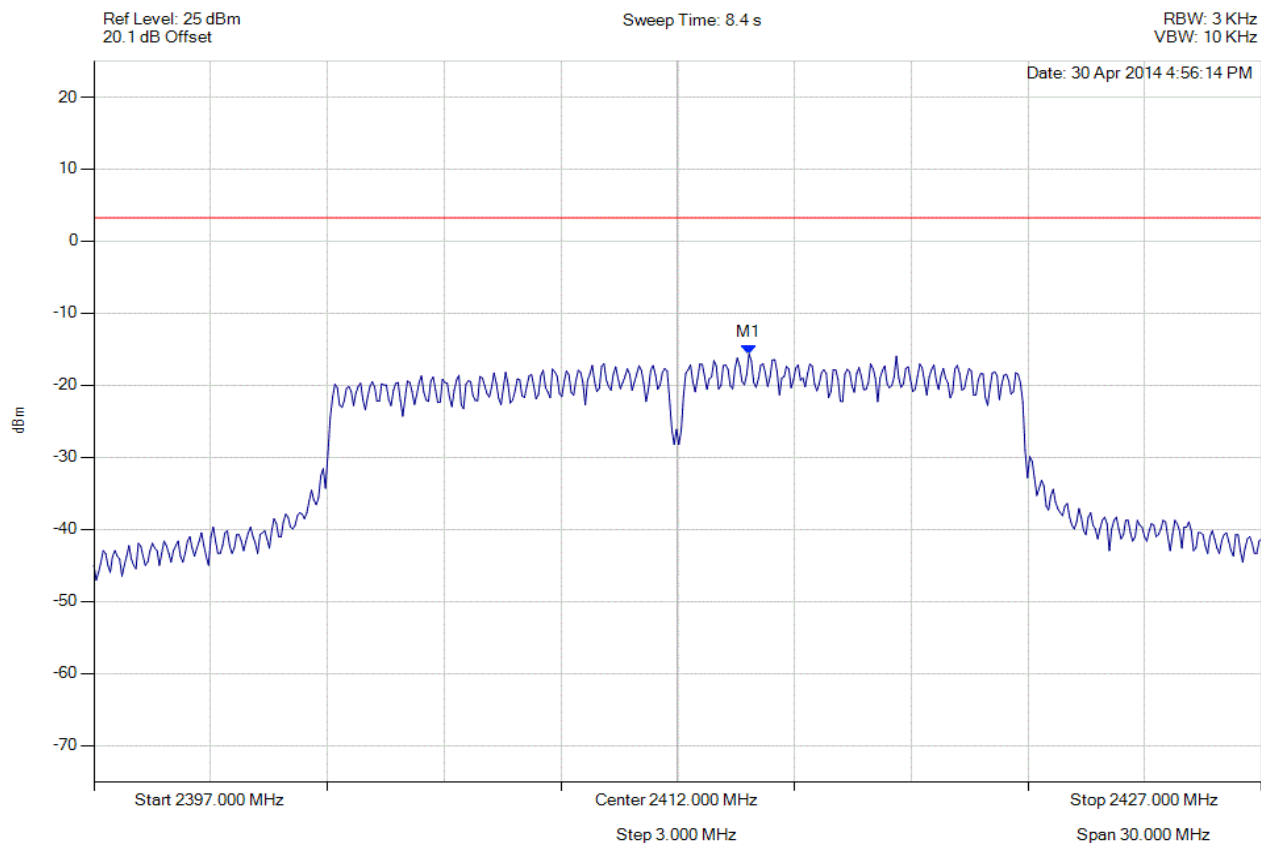


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 166 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2412.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2413.834 MHz : -15.648 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

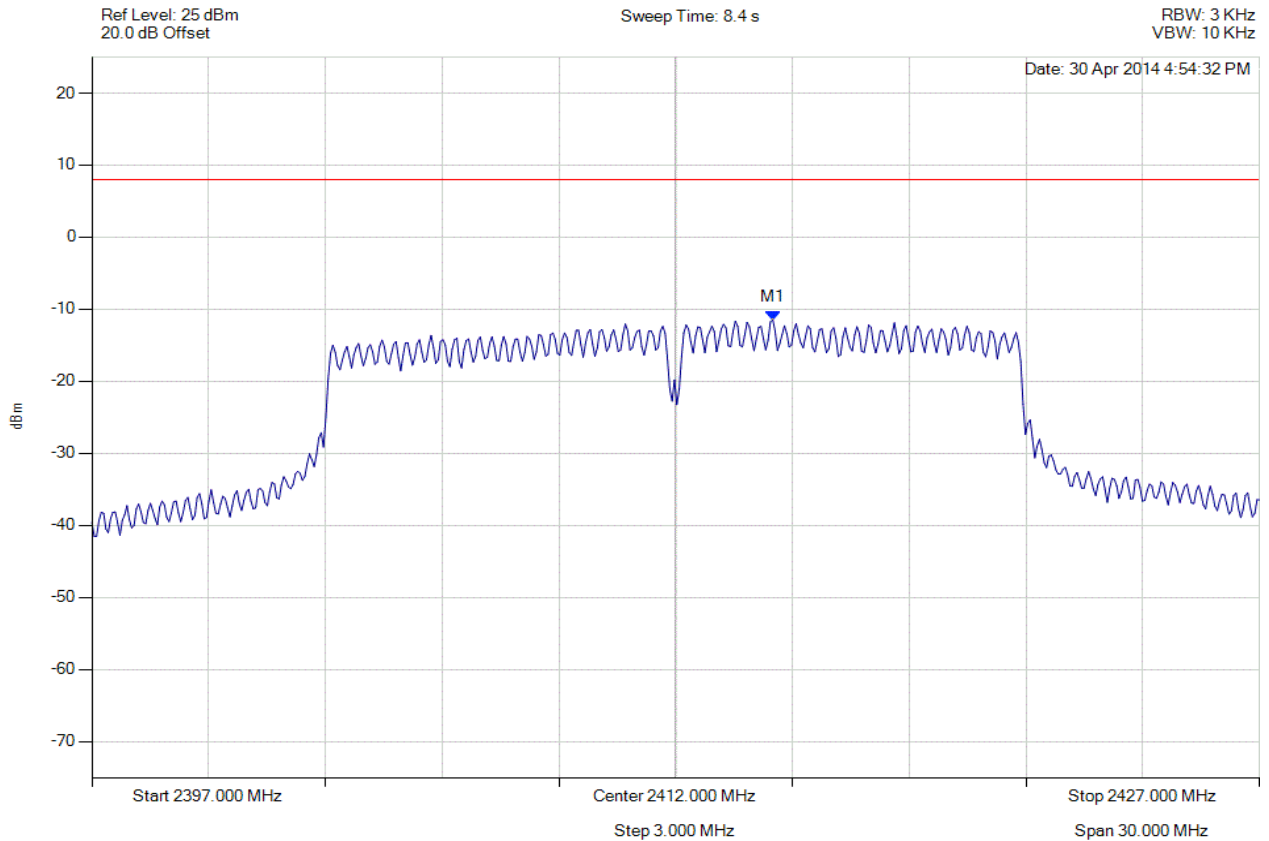


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 167 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2412.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2414.500 MHz : -11.455 dBm M1 + DCCF : 2414.500 MHz : -11.212 dBm Duty Cycle Correction Factor : +0.24 dB	Limit: $\leq 8.0$ dBm Margin: -19.2 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

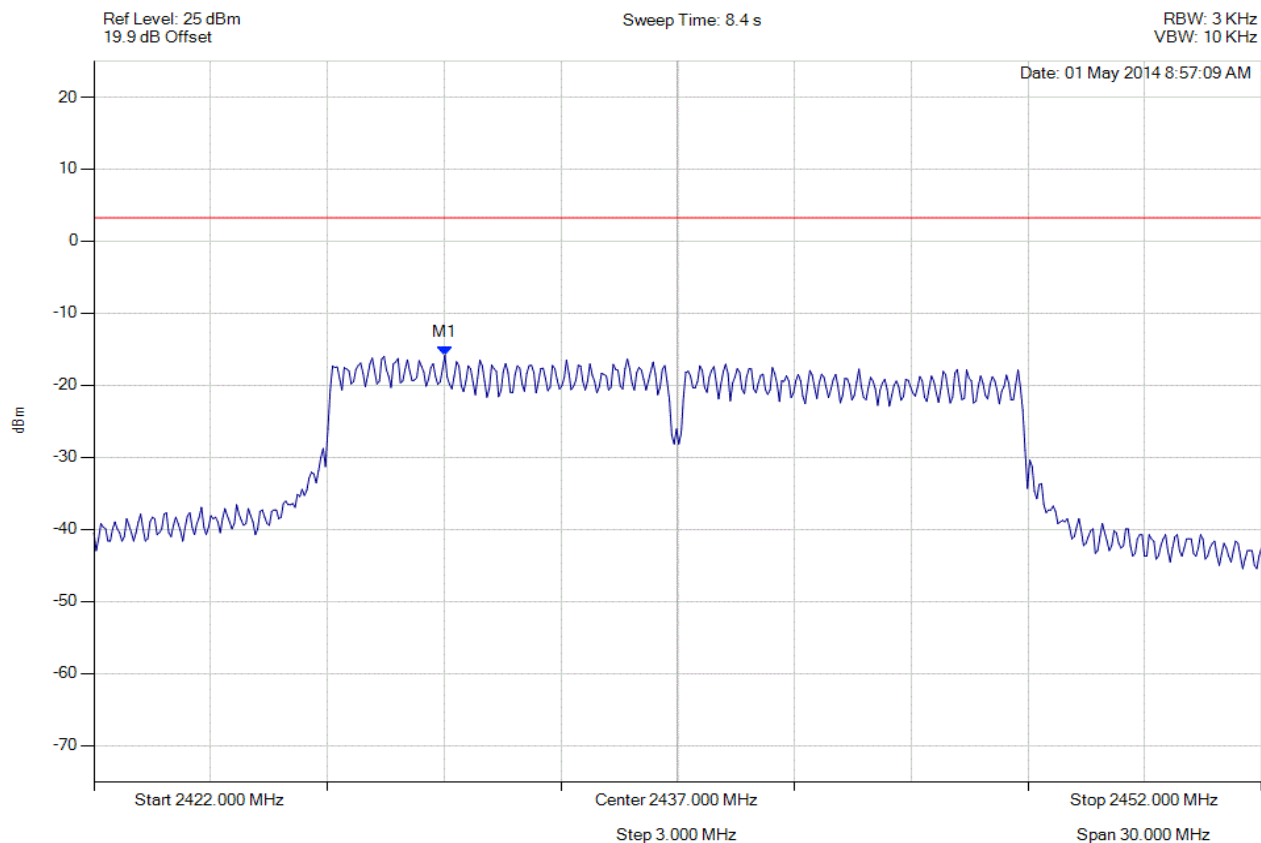


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 168 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2437.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2431.018 MHz : -15.790 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



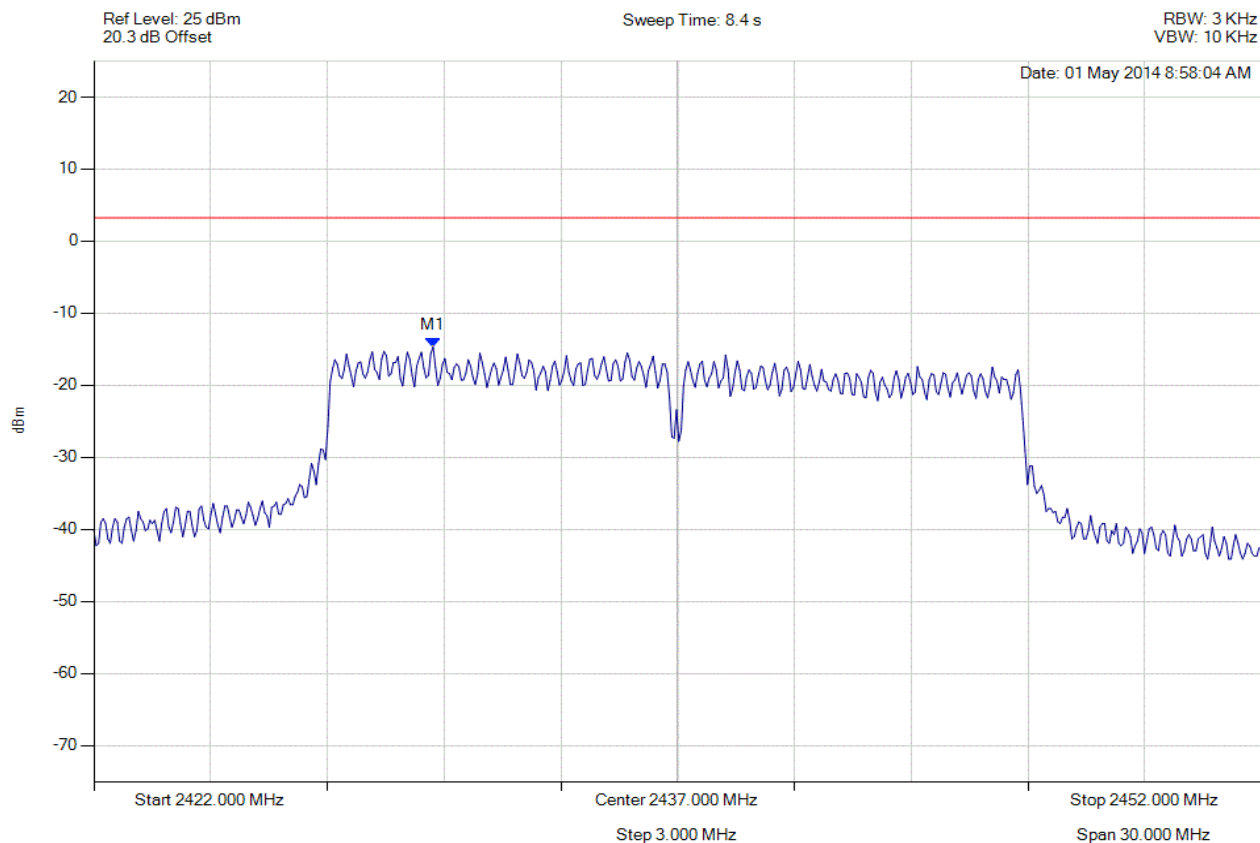


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 169 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2437.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2430.717 MHz : -14.690 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

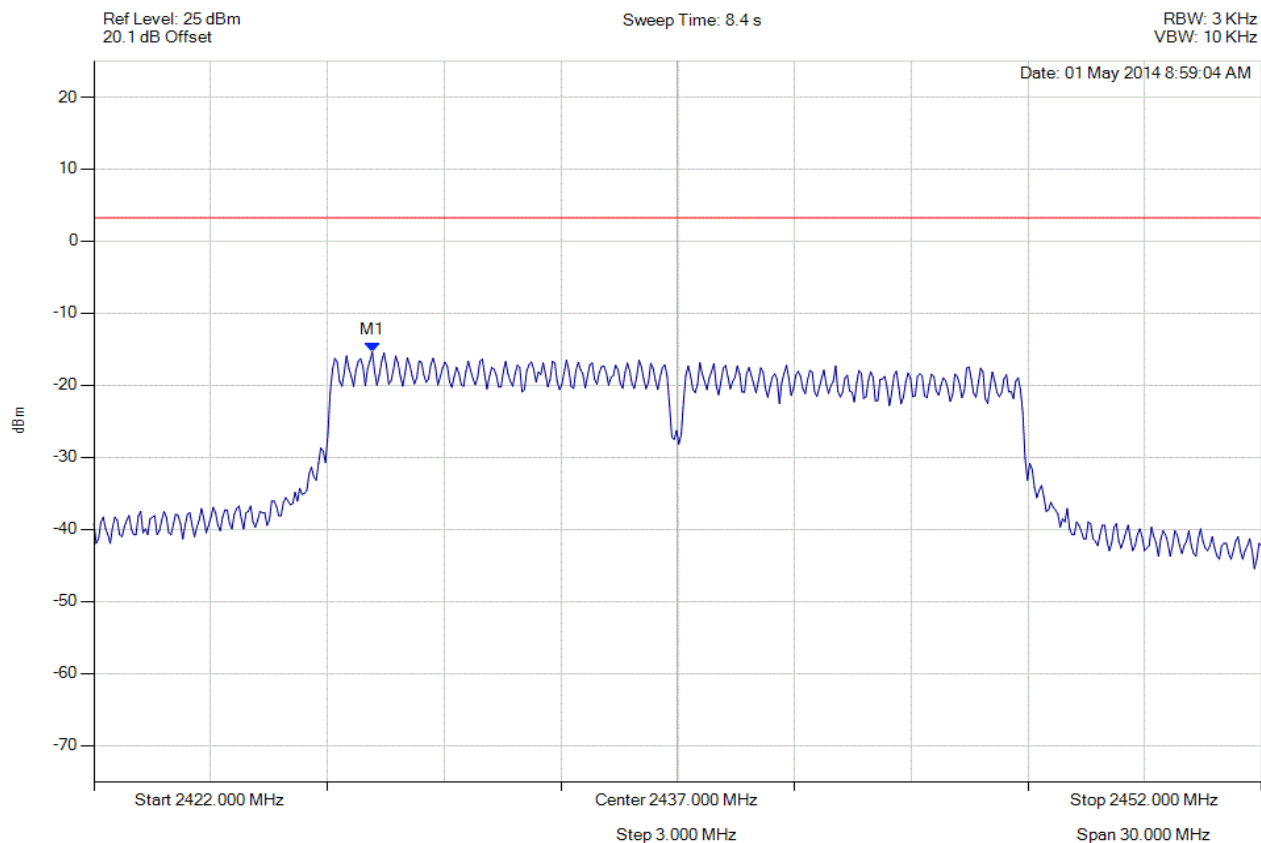


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 170 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2437.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2429.154 MHz : -15.342 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

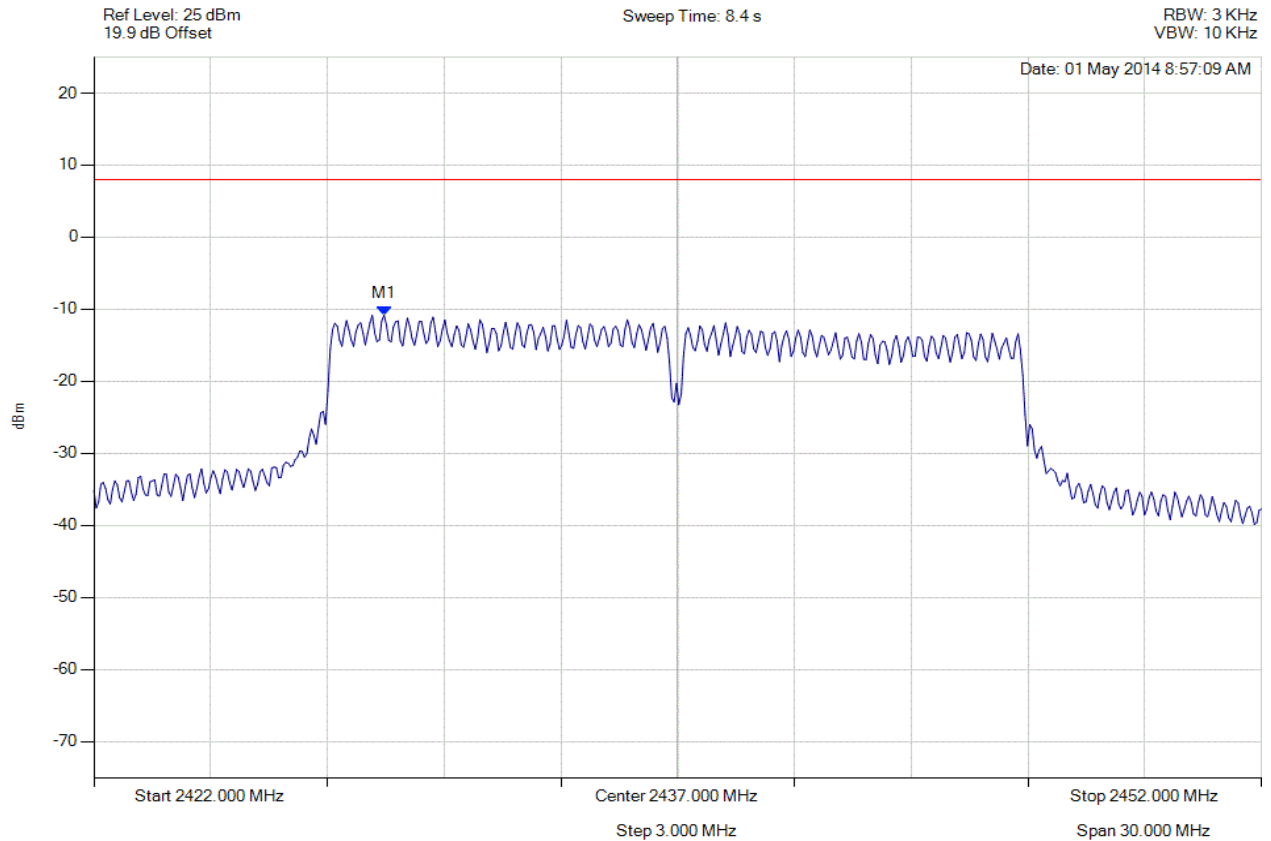


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 171 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2437.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2429.500 MHz : -10.815 dBm M1 + DCCF : 2429.500 MHz : -10.572 dBm Duty Cycle Correction Factor : +0.24 dB	Limit: $\leq 8.0$ dBm Margin: -18.5 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

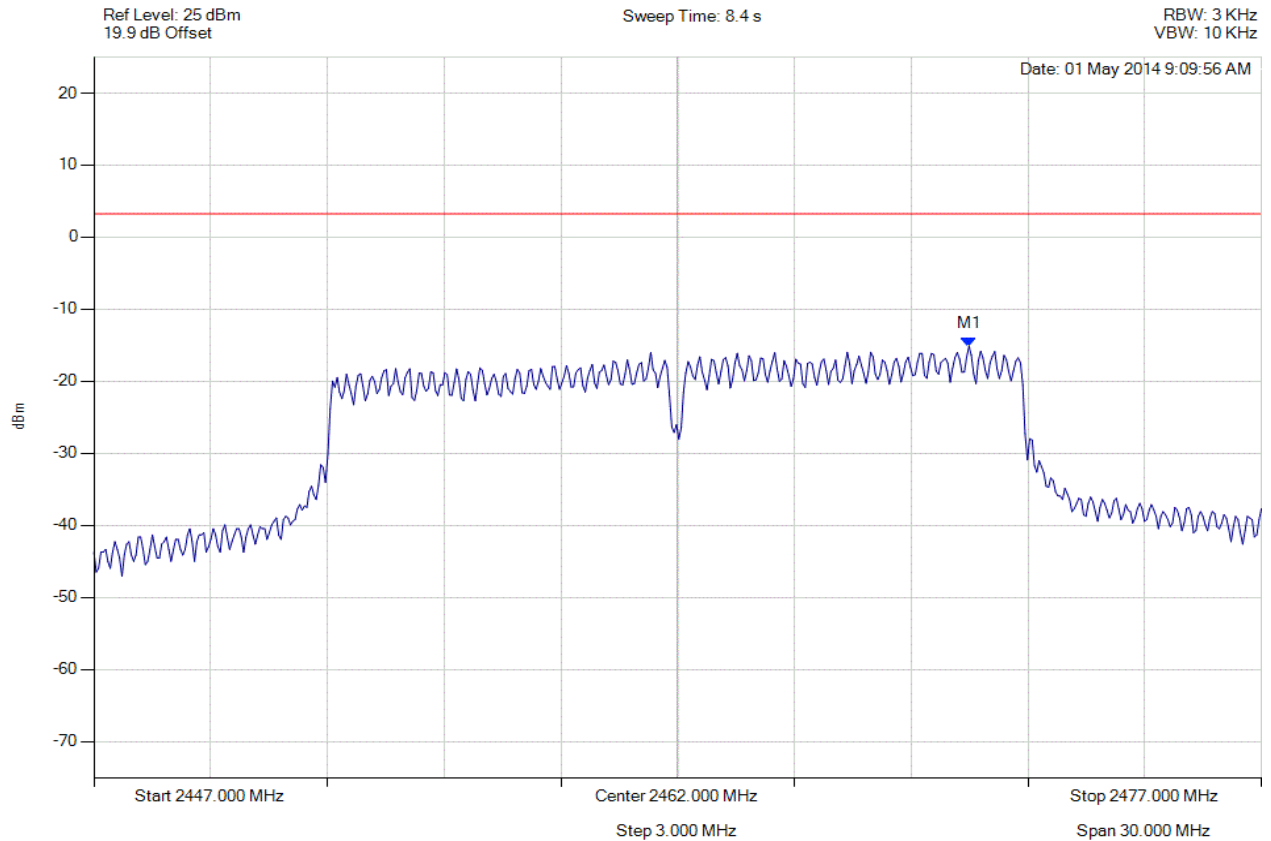


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 172 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2462.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.485 MHz : -15.134 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

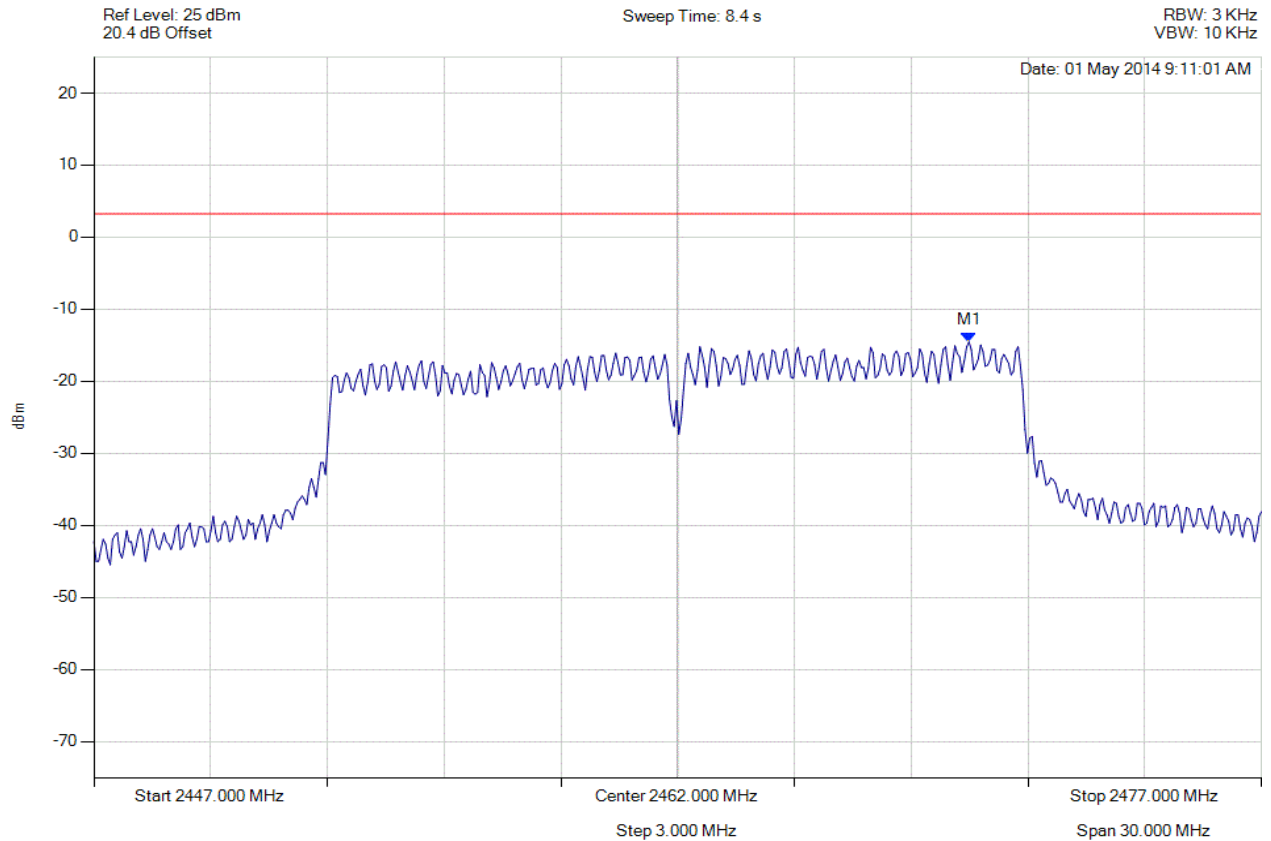


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 173 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2462.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.485 MHz : -14.537 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

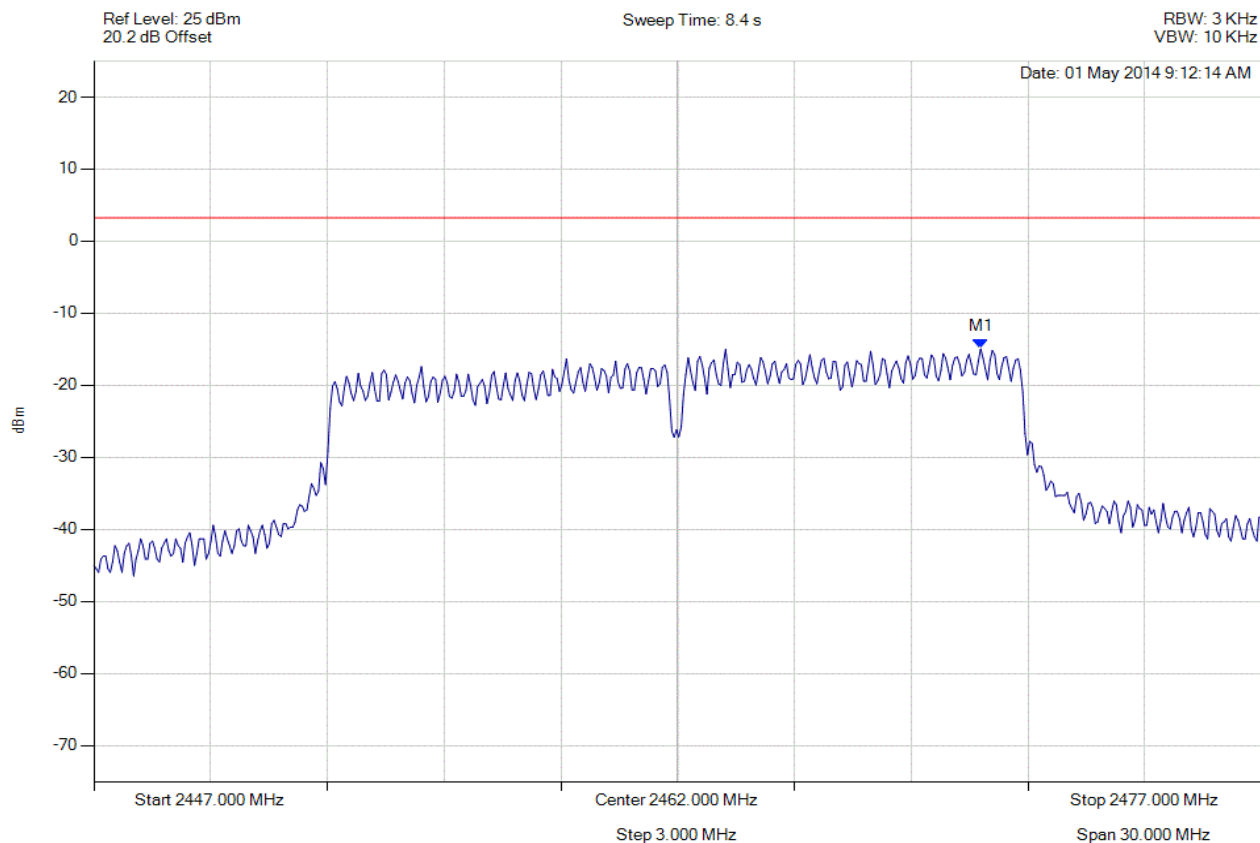


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 174 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2462.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.786 MHz : -14.945 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

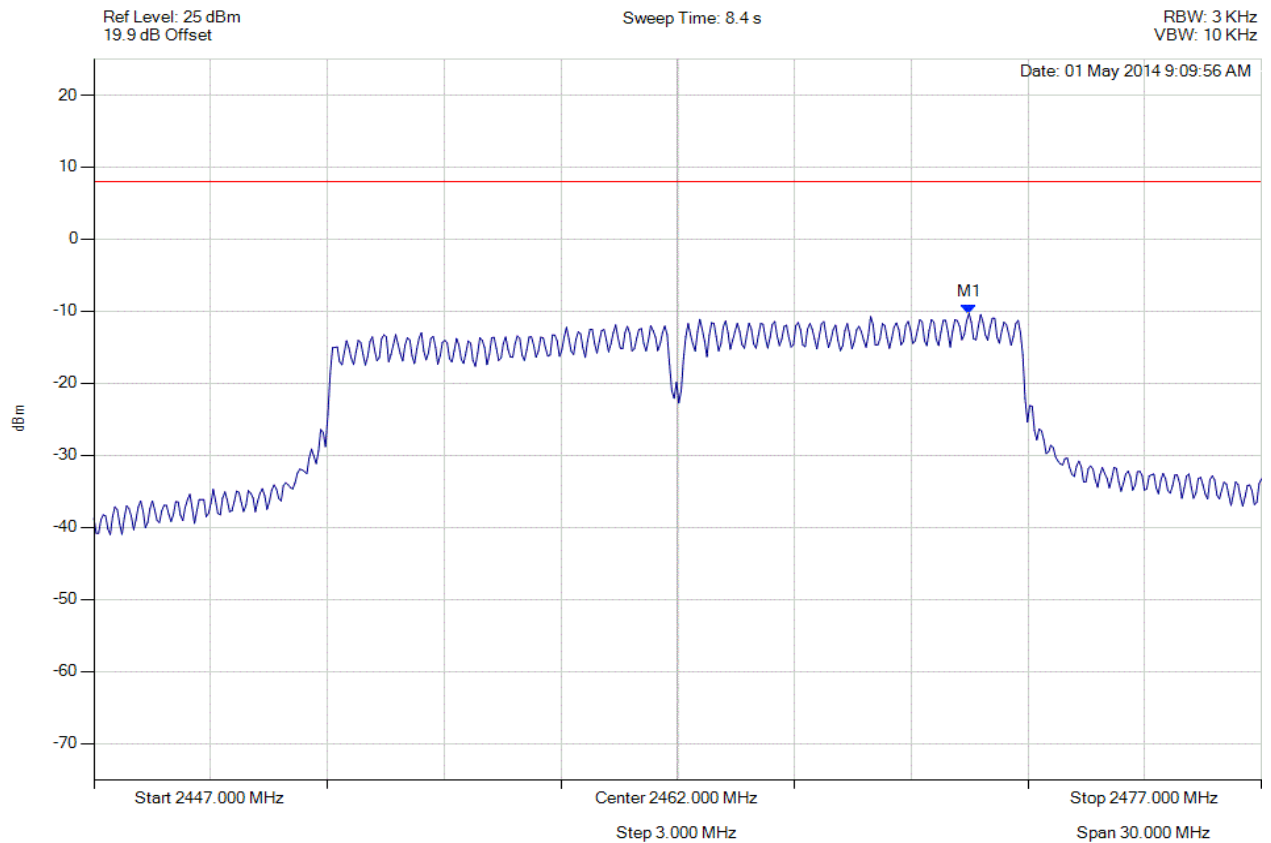


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 175 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 2462.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.500 MHz : -10.330 dBm M1 + DCCF : 2469.500 MHz : -10.087 dBm Duty Cycle Correction Factor : +0.24 dB	Limit: $\leq 8.0$ dBm Margin: -18.1 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

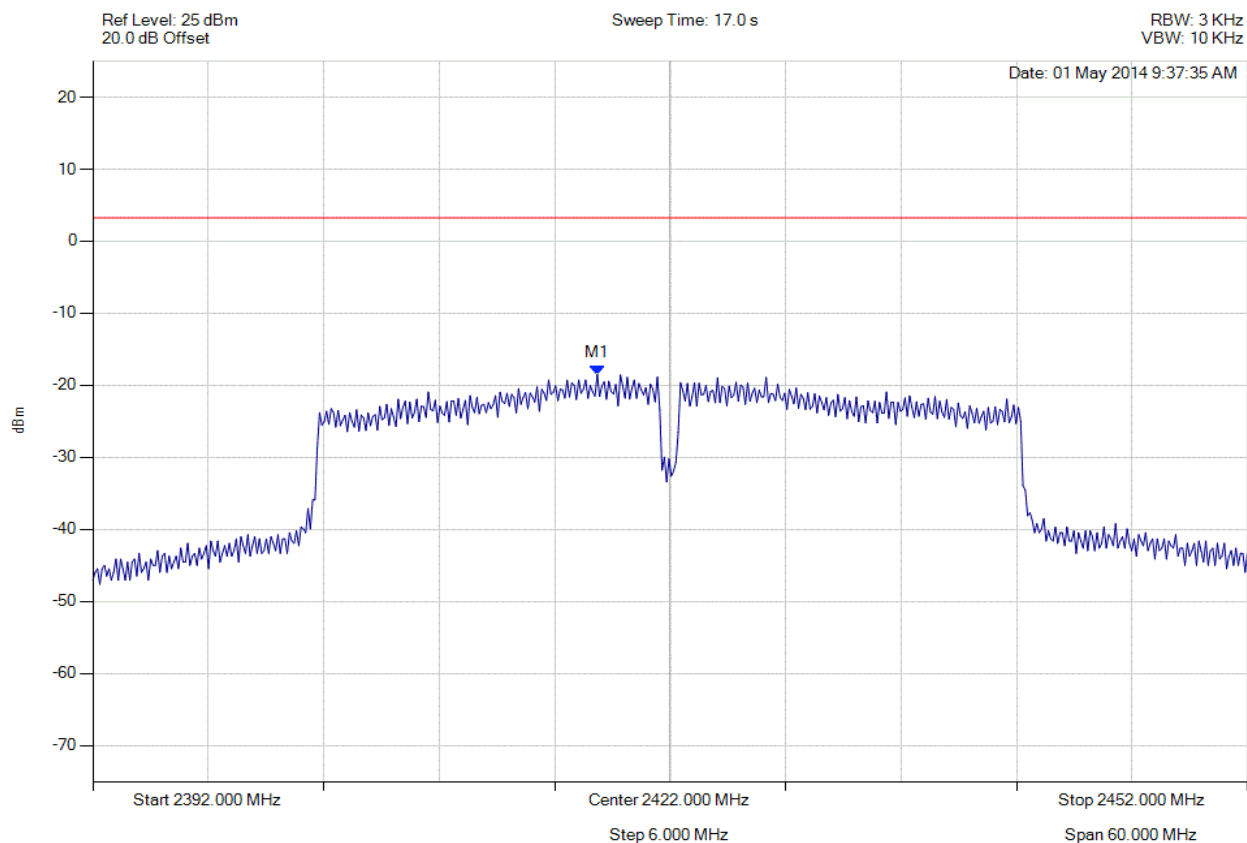


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 176 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2422.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2418.212 MHz : -18.481 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



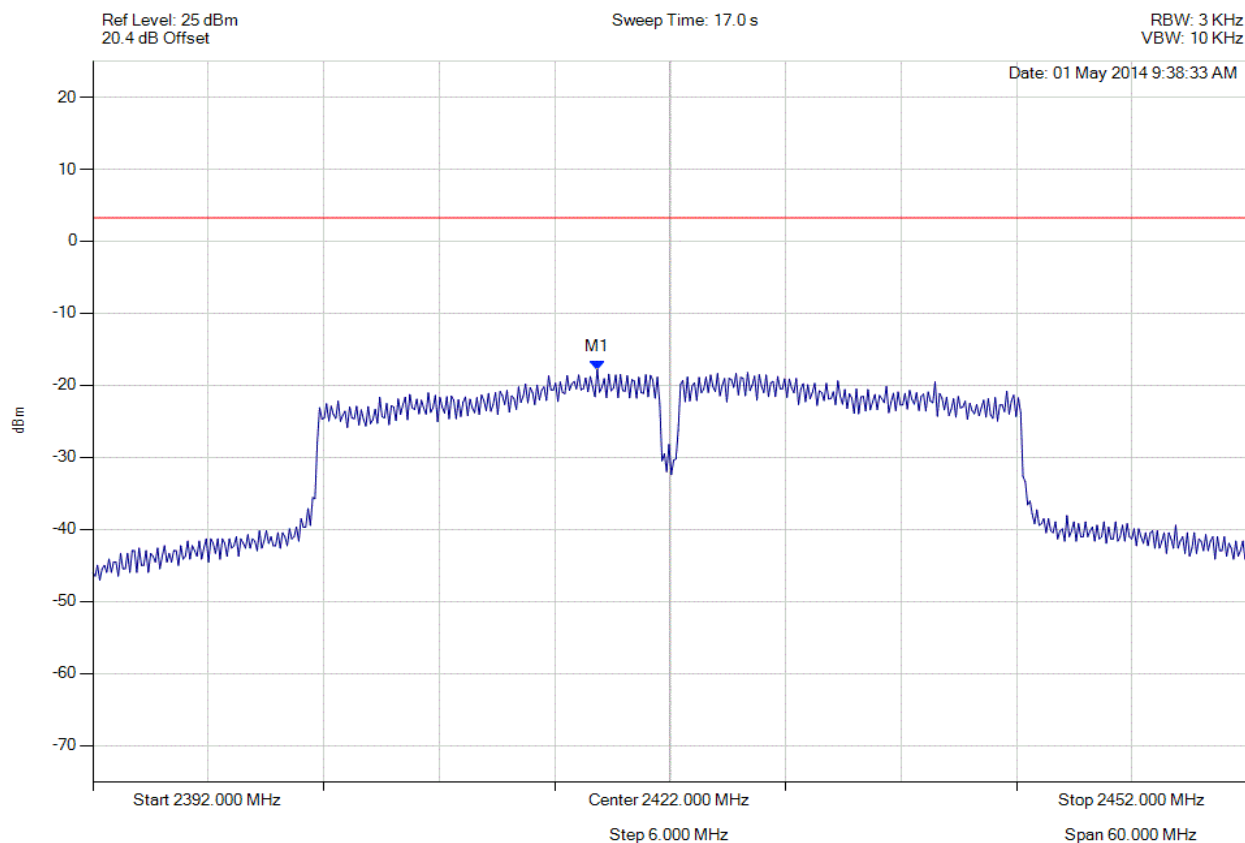


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 177 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2422.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2418.212 MHz : -17.796 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

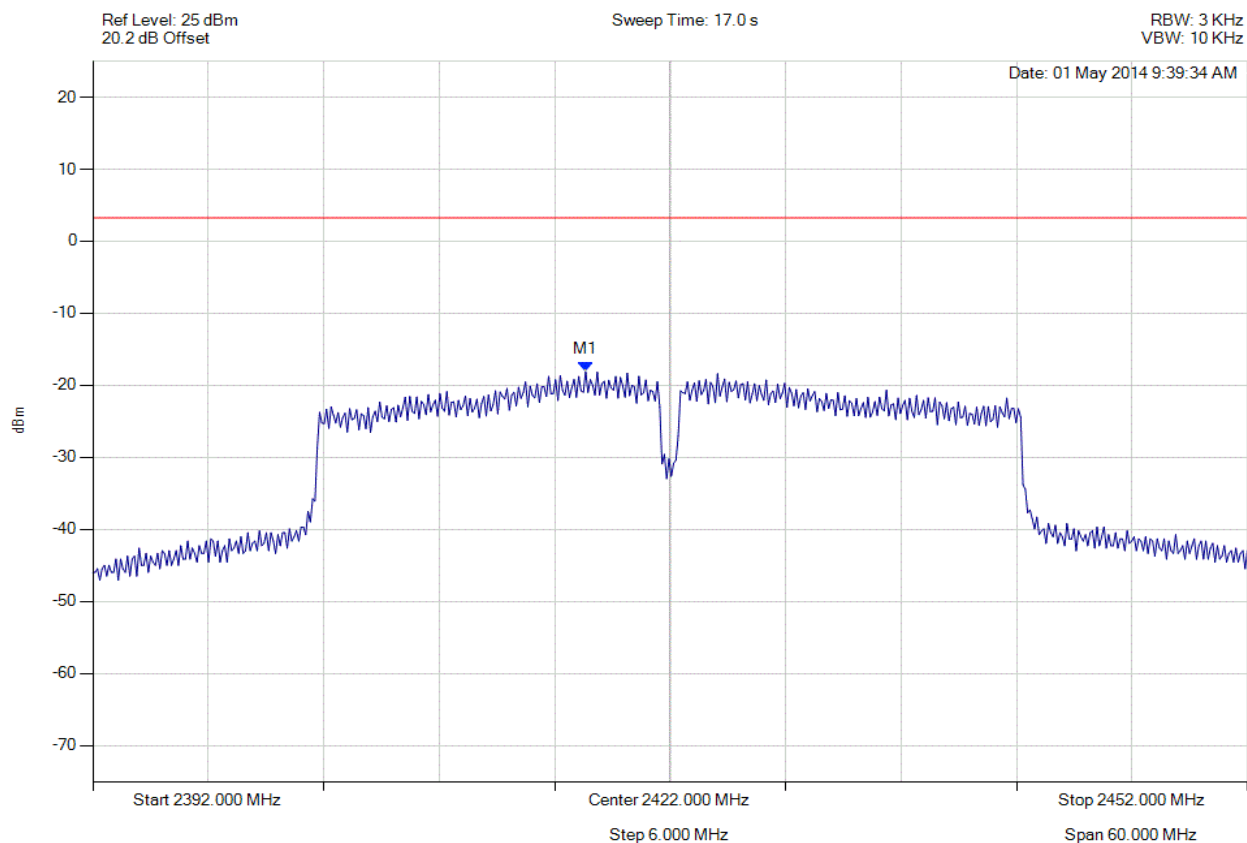


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 178 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2422.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2417.611 MHz : -18.100 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

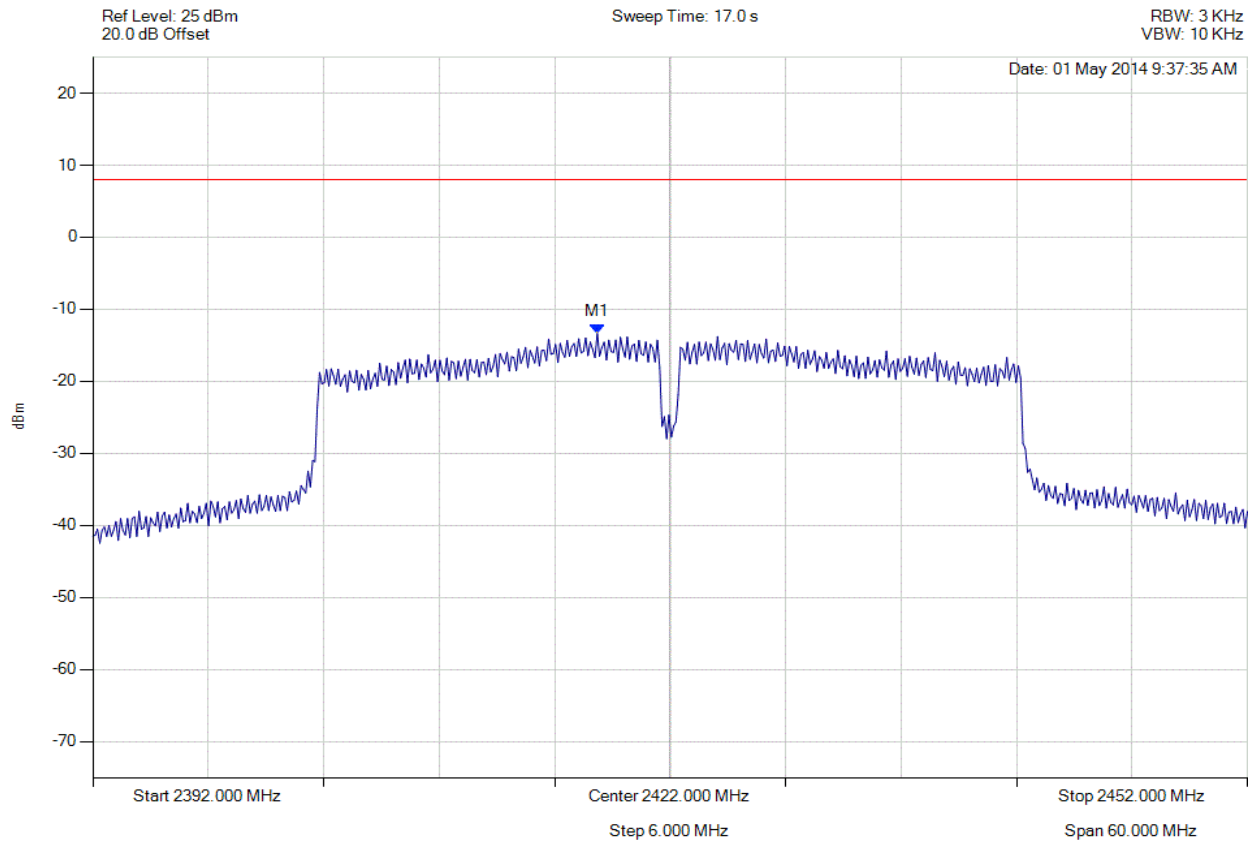


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 179 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2422.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2418.200 MHz : -13.373 dBm M1 + DCCF : 2418.200 MHz : -12.699 dBm Duty Cycle Correction Factor : +0.67 dB	Limit: $\leq 8.0$ dBm Margin: -20.7 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

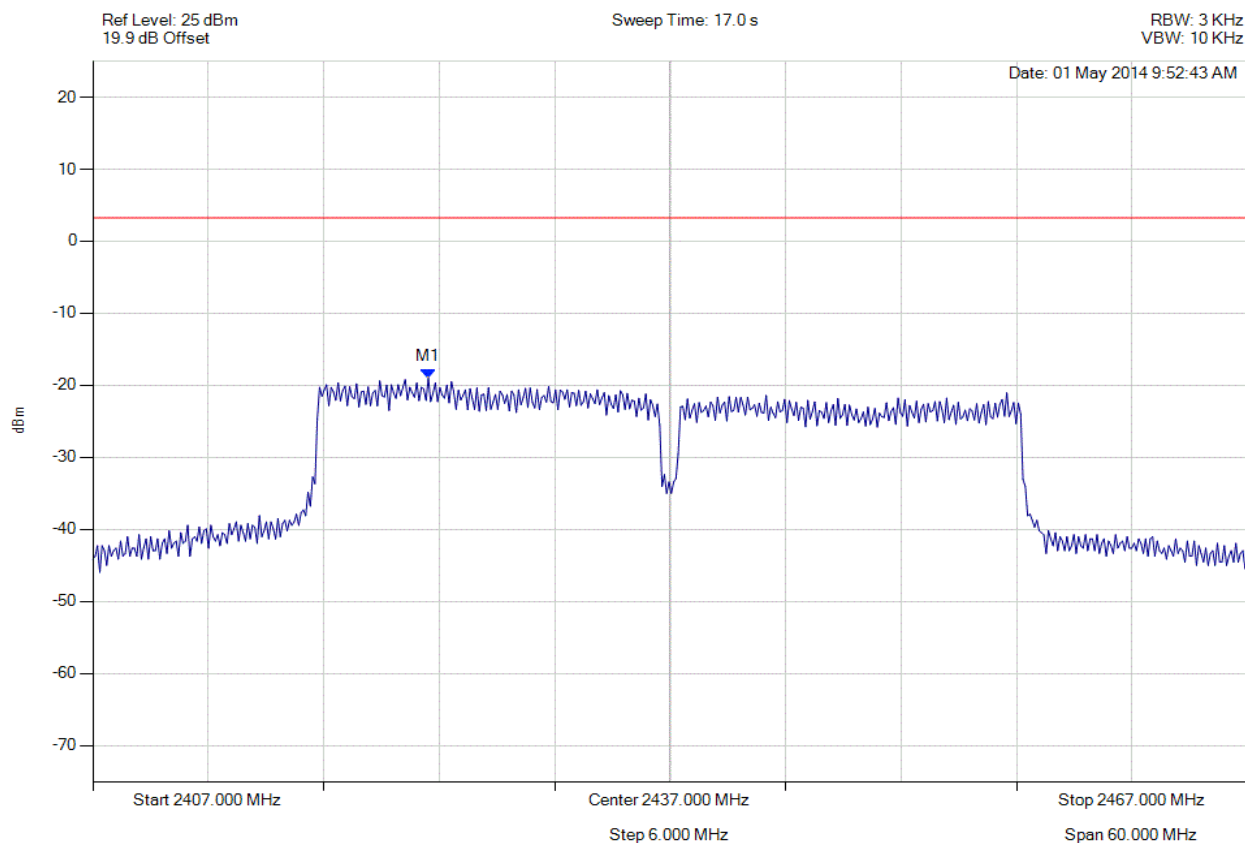


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 180 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2437.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2424.435 MHz : -19.016 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

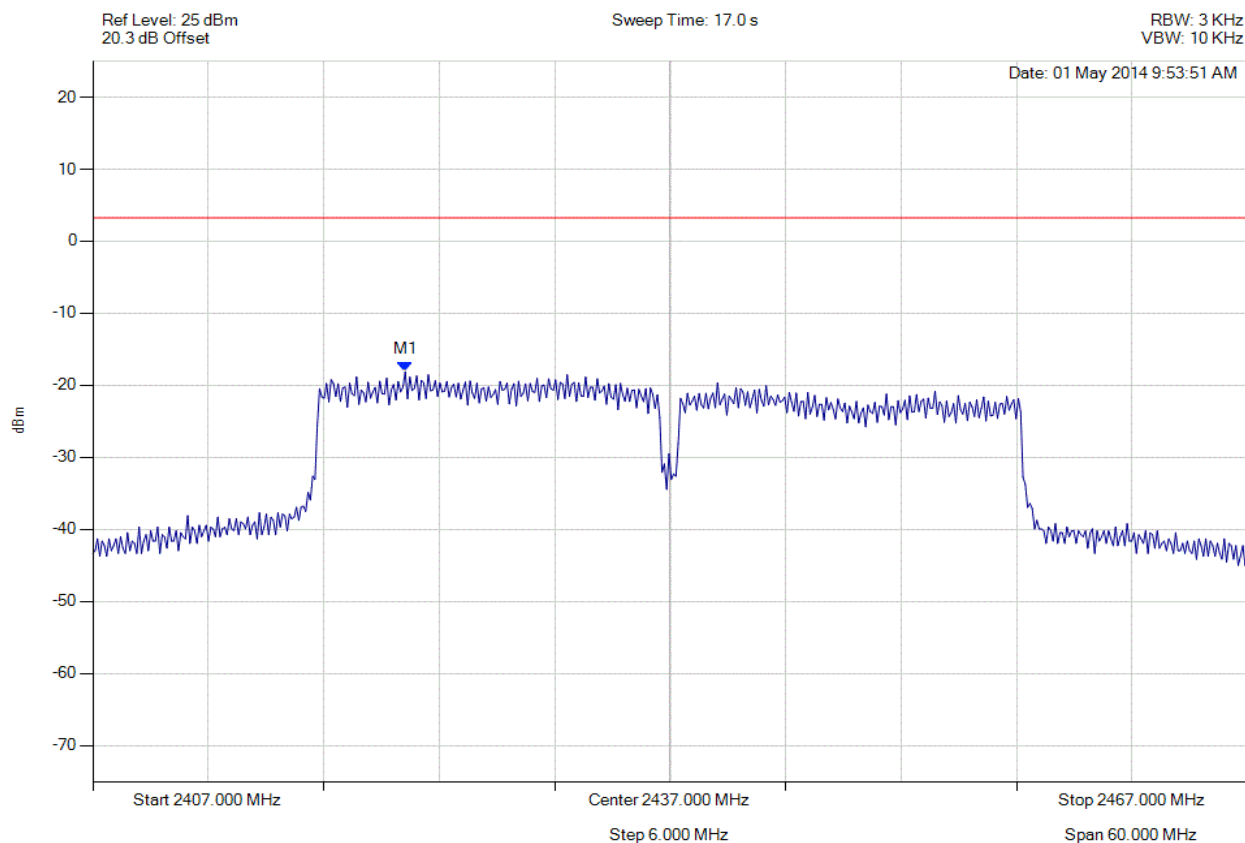


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 181 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2437.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2423.232 MHz : -18.121 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

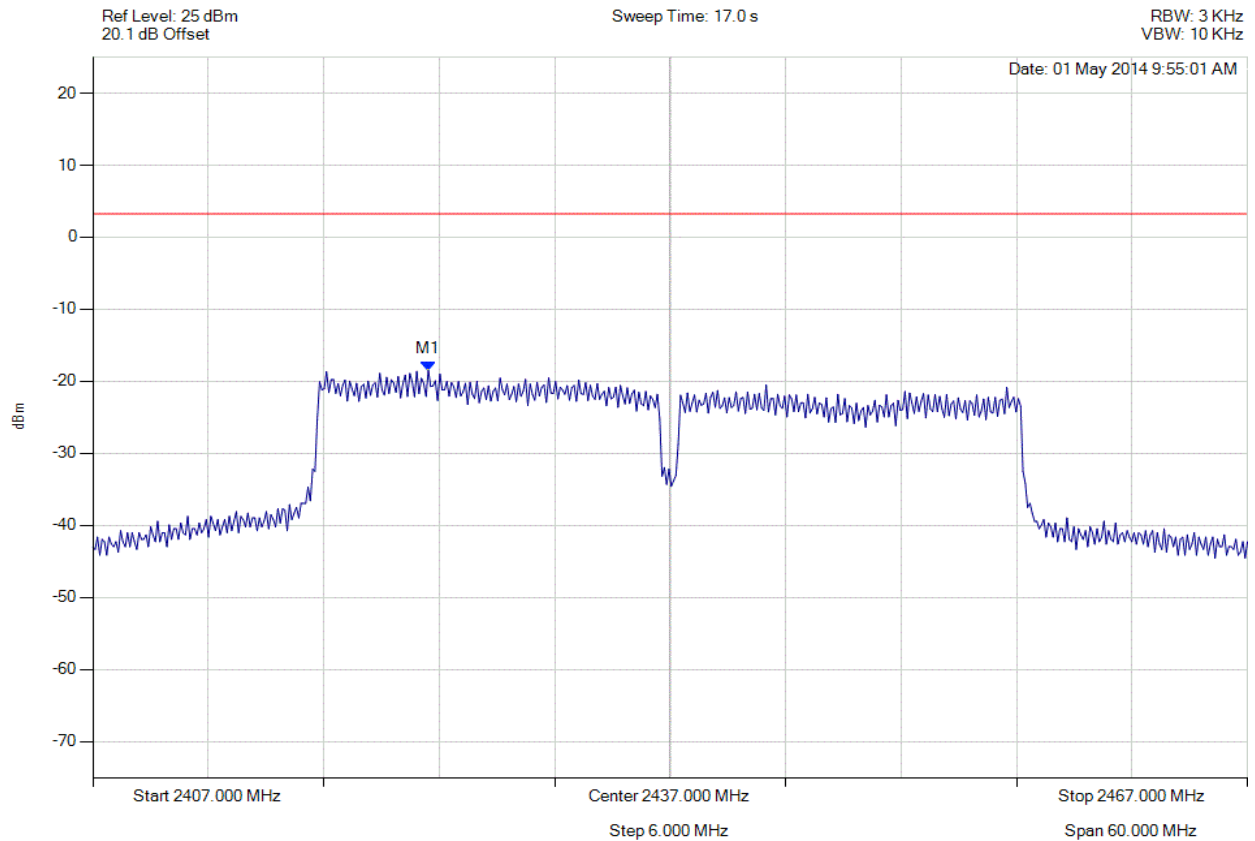


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 182 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2437.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2424.435 MHz : -18.481 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

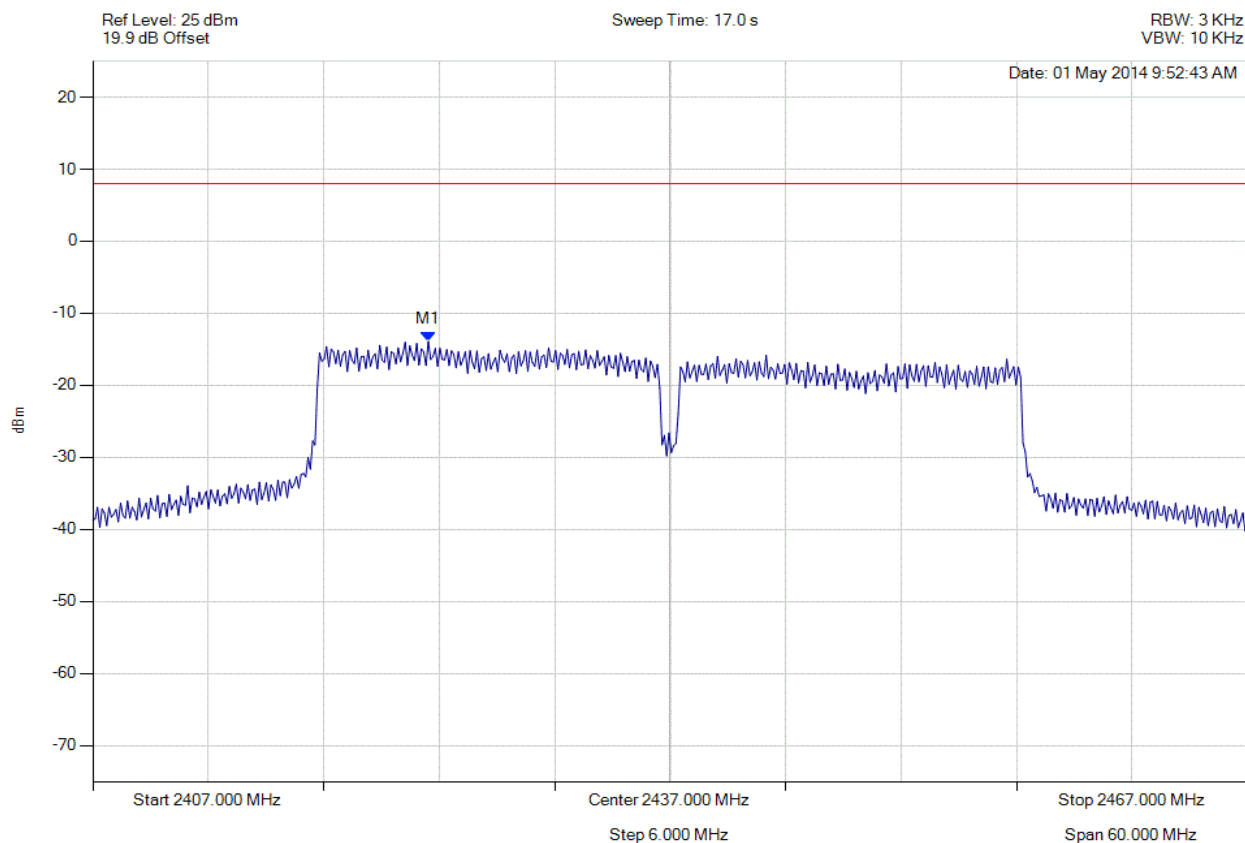


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 183 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2437.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2424.400 MHz : -13.903 dBm M1 + DCCF : 2424.400 MHz : -13.229 dBm Duty Cycle Correction Factor : +0.67 dB	Limit: $\leq 8.0$ dBm Margin: -21.2 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

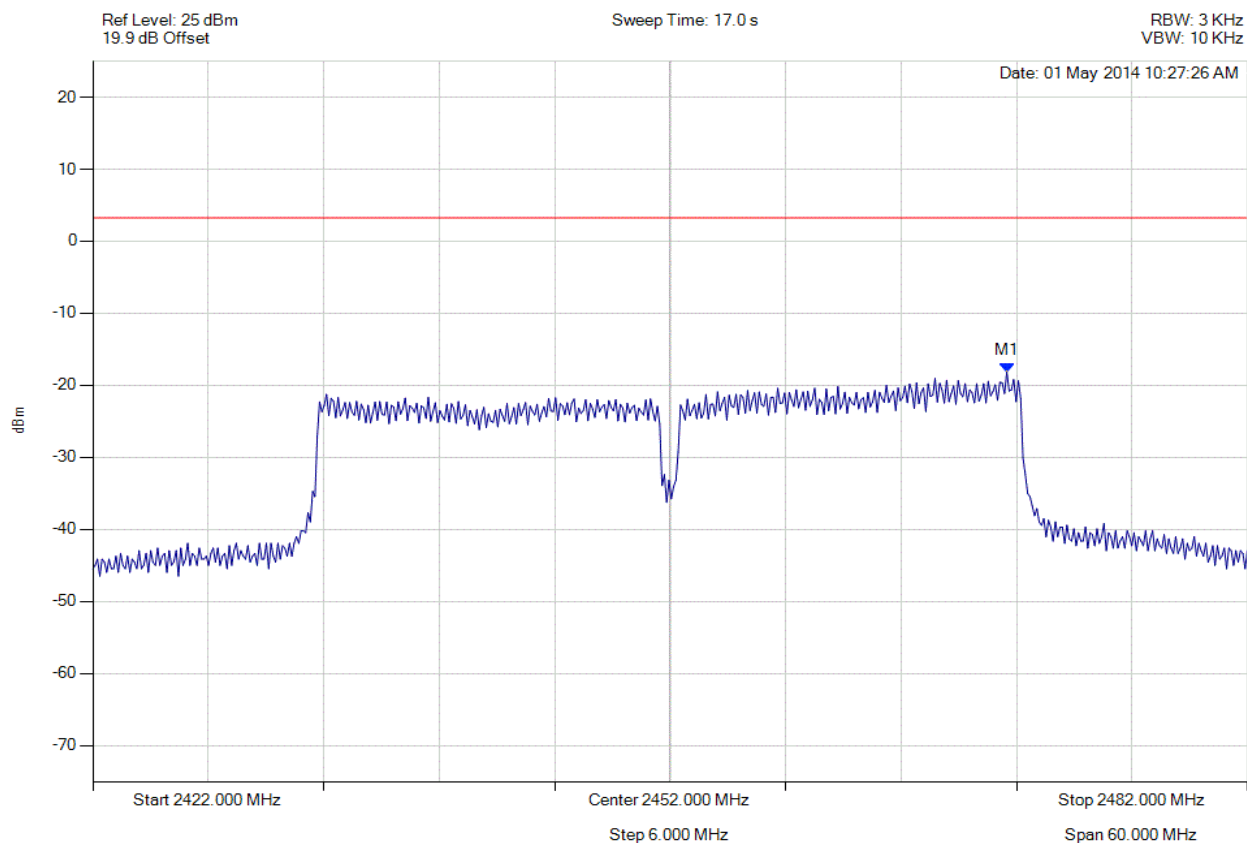


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 184 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2452.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.495 MHz : -18.163 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



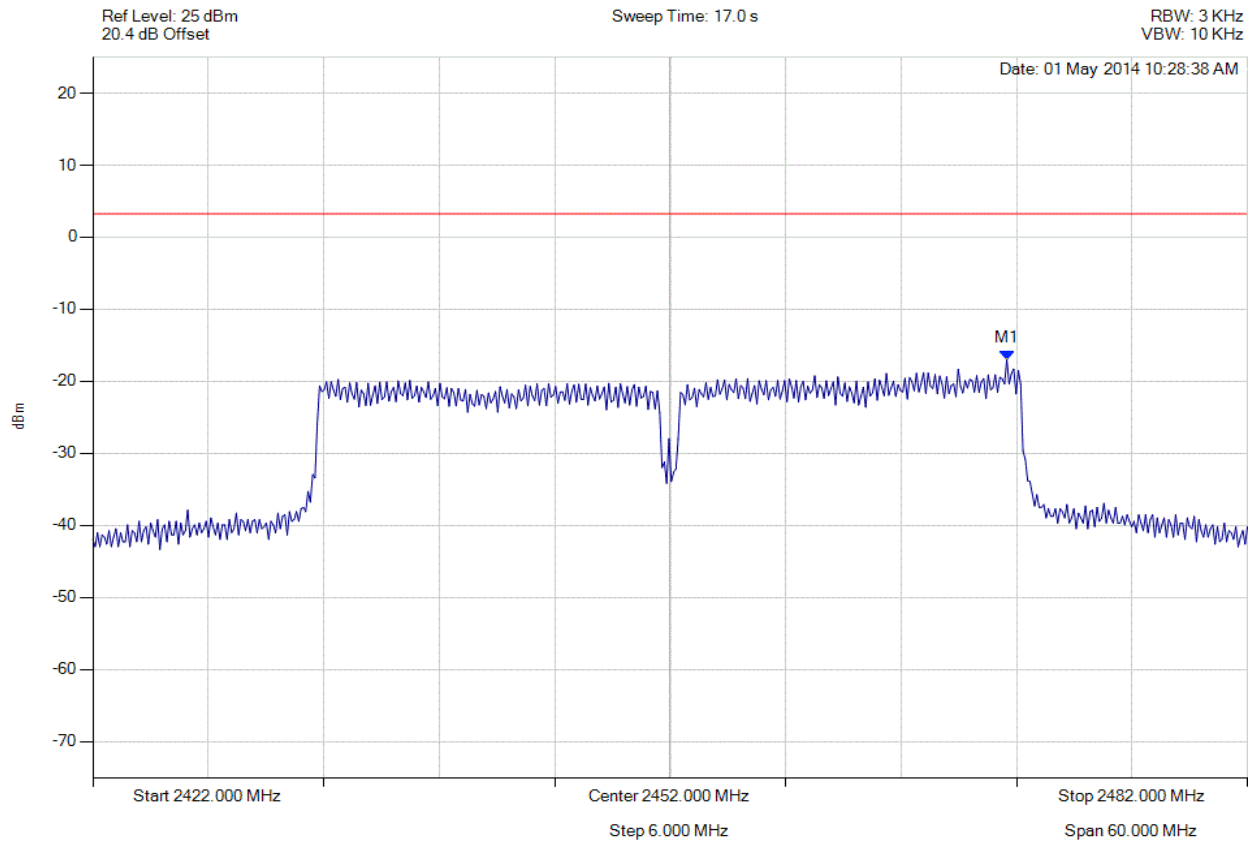


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 185 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2452.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.495 MHz : -16.995 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

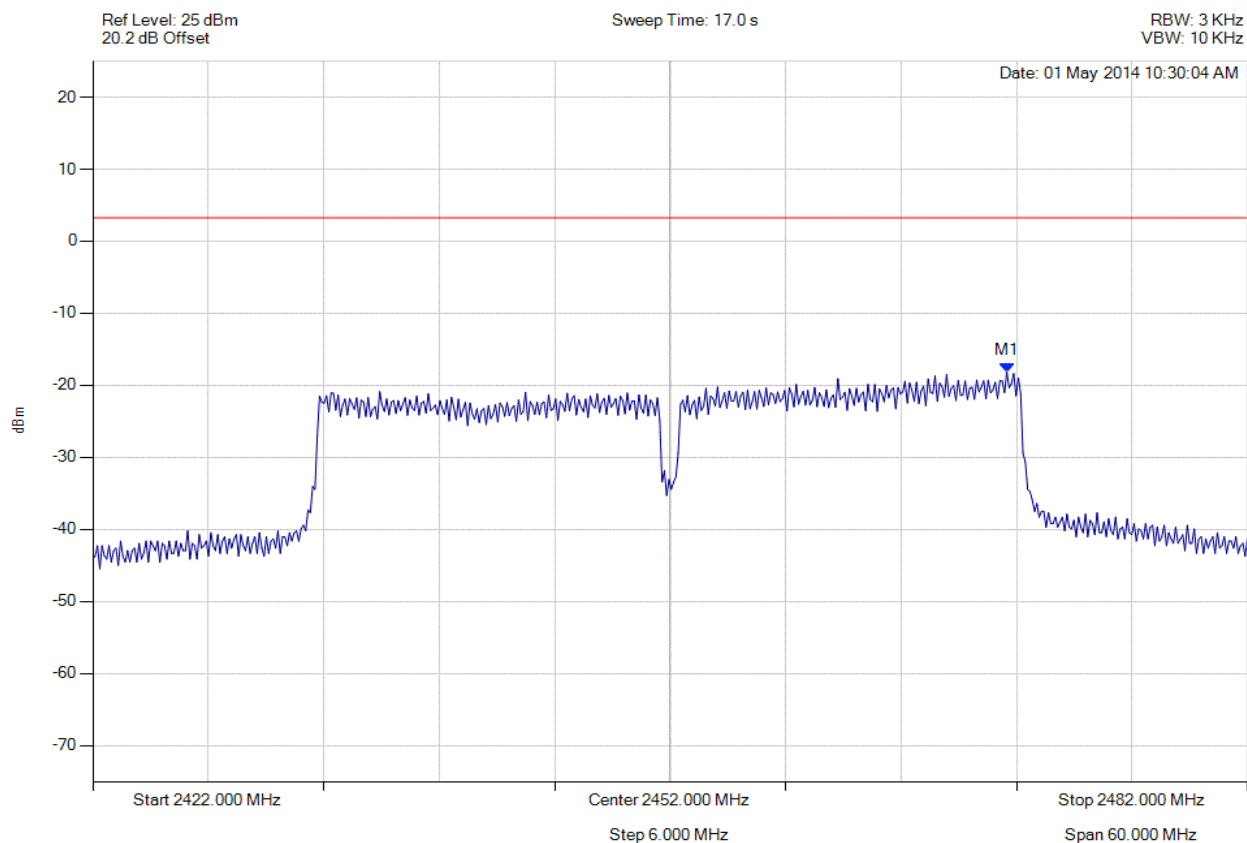


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 186 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2452.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.495 MHz : -18.142 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

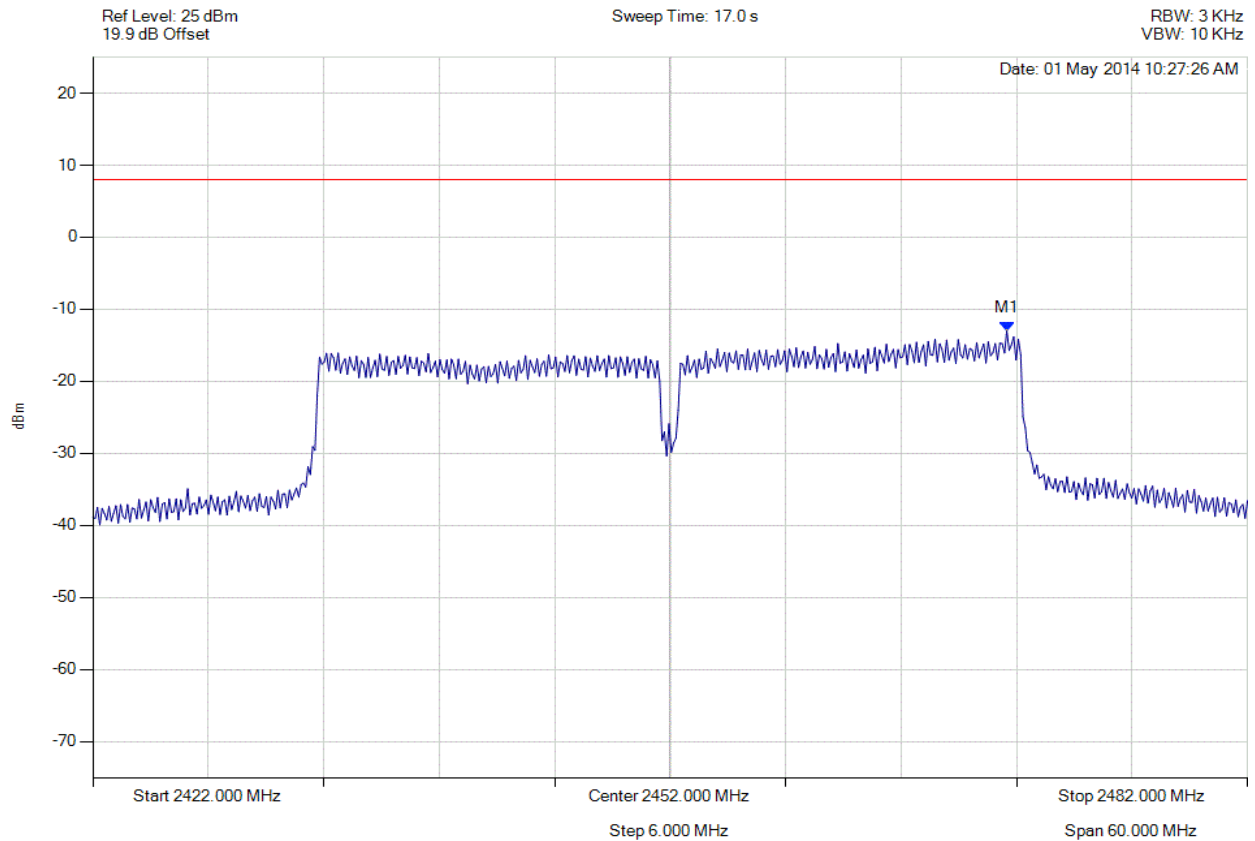


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 187 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 2452.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 2469.500 MHz : -12.960 dBm M1 + DCCF : 2469.500 MHz : -12.286 dBm Duty Cycle Correction Factor : +0.67 dB	Limit: $\leq 8.0$ dBm Margin: -20.3 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

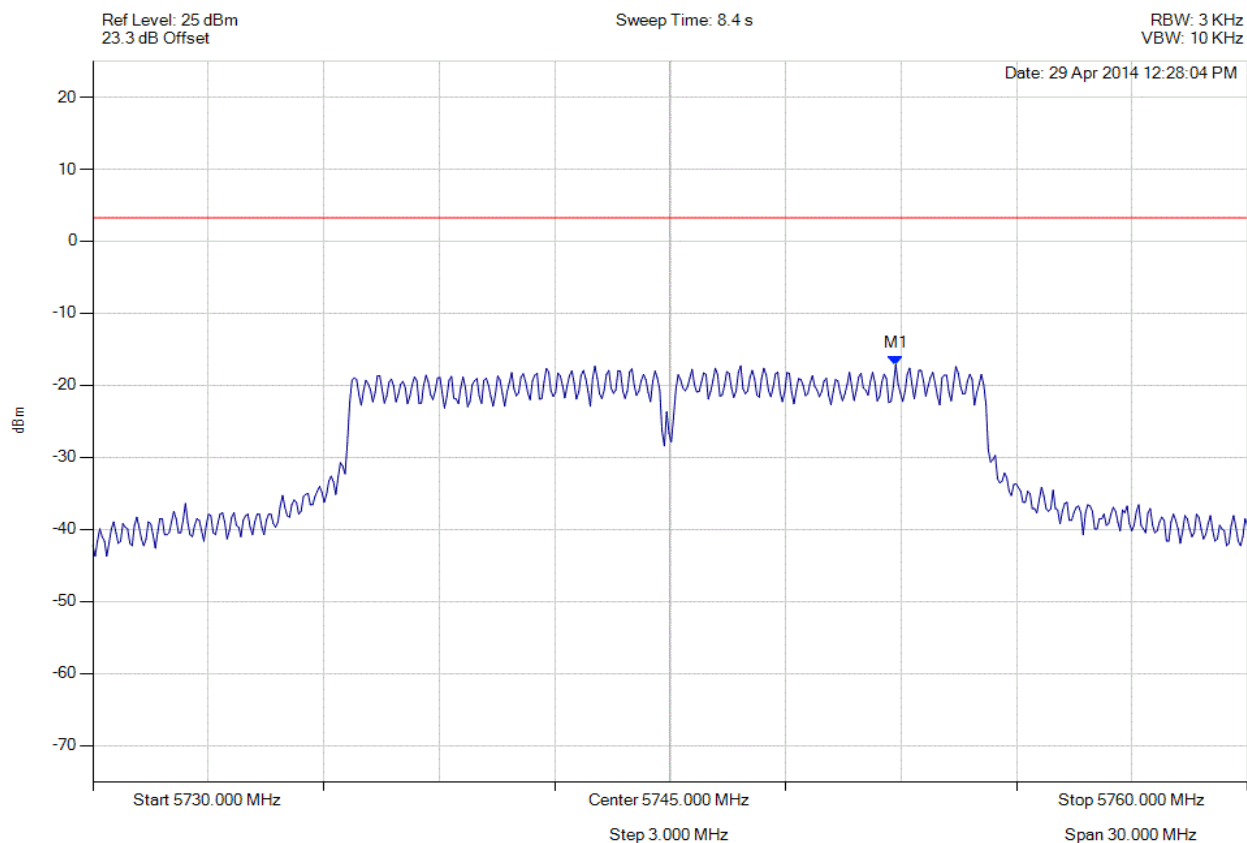


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 188 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5750.862 MHz : -17.142 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

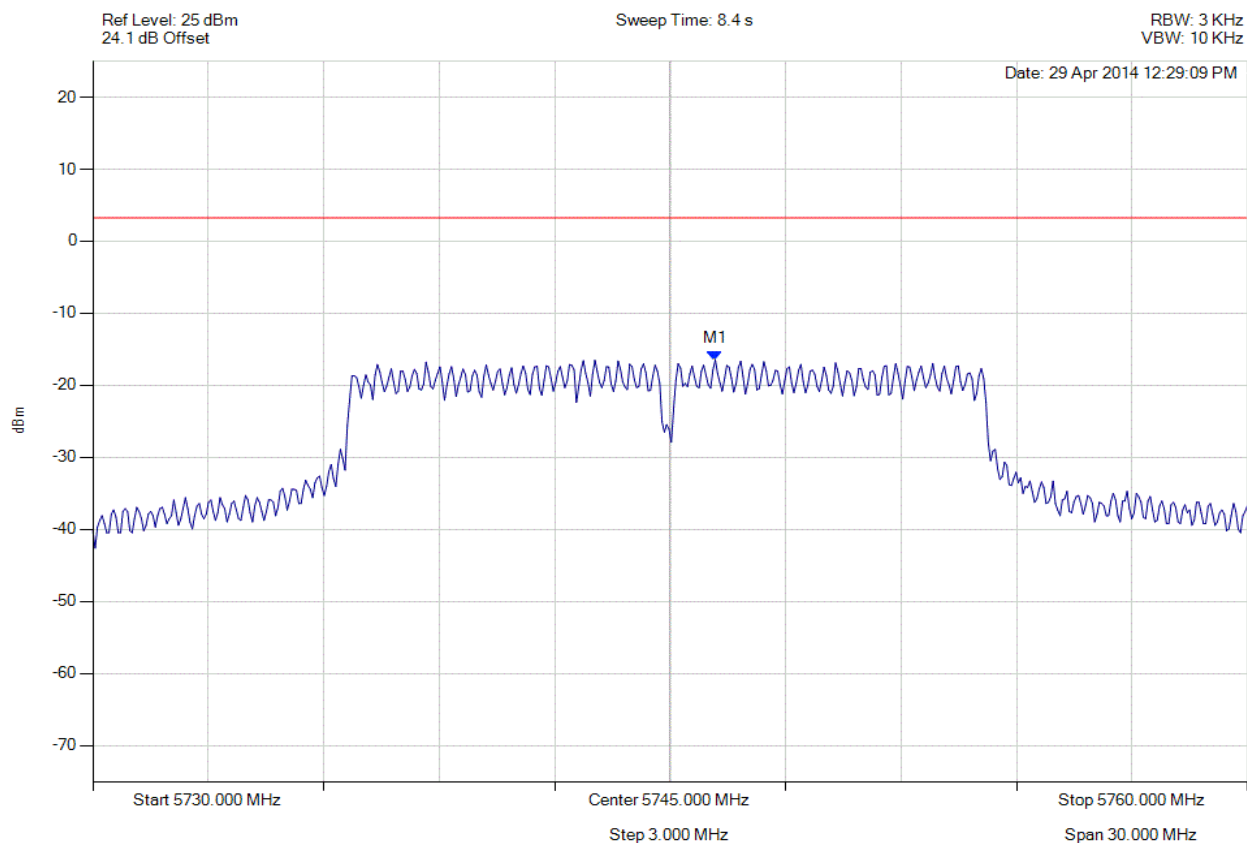


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 189 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.172 MHz : -16.482 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

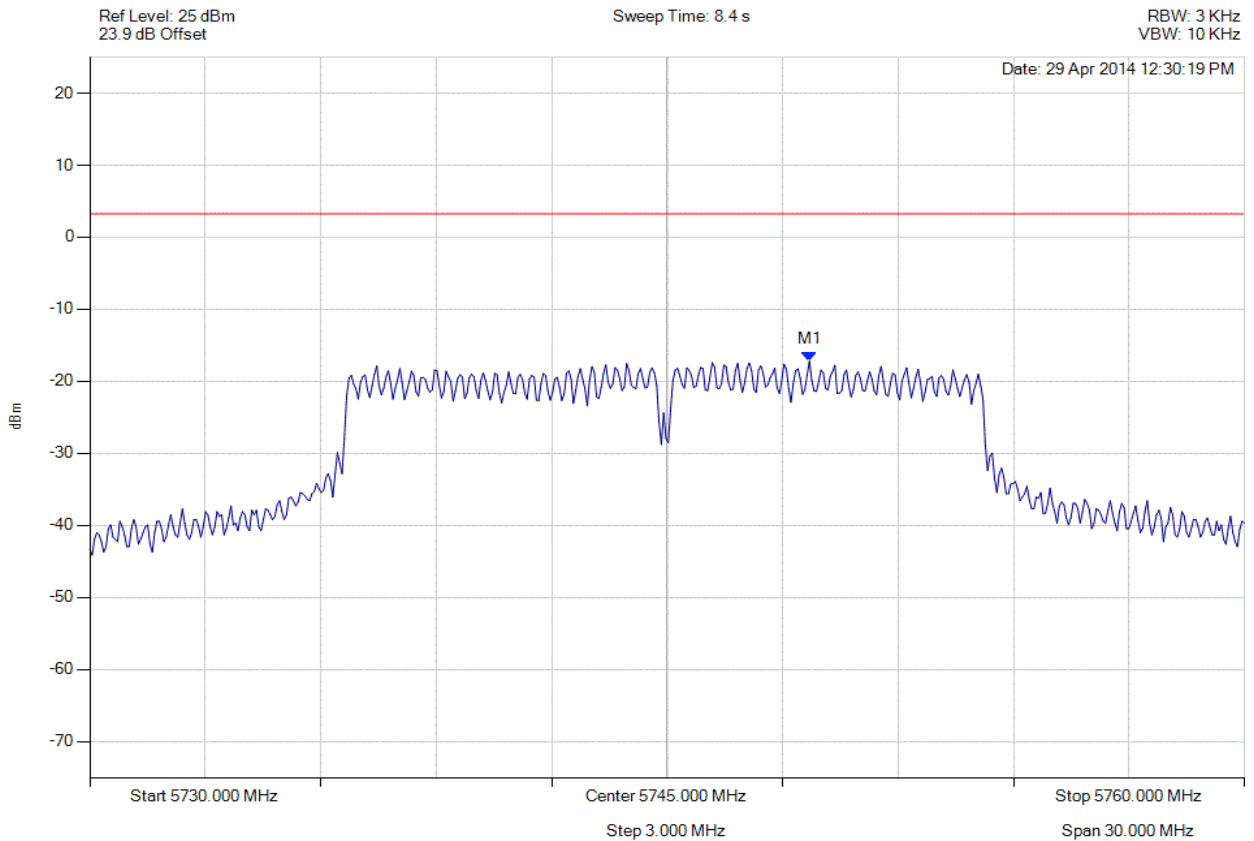


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 190 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.697 MHz : -17.198 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

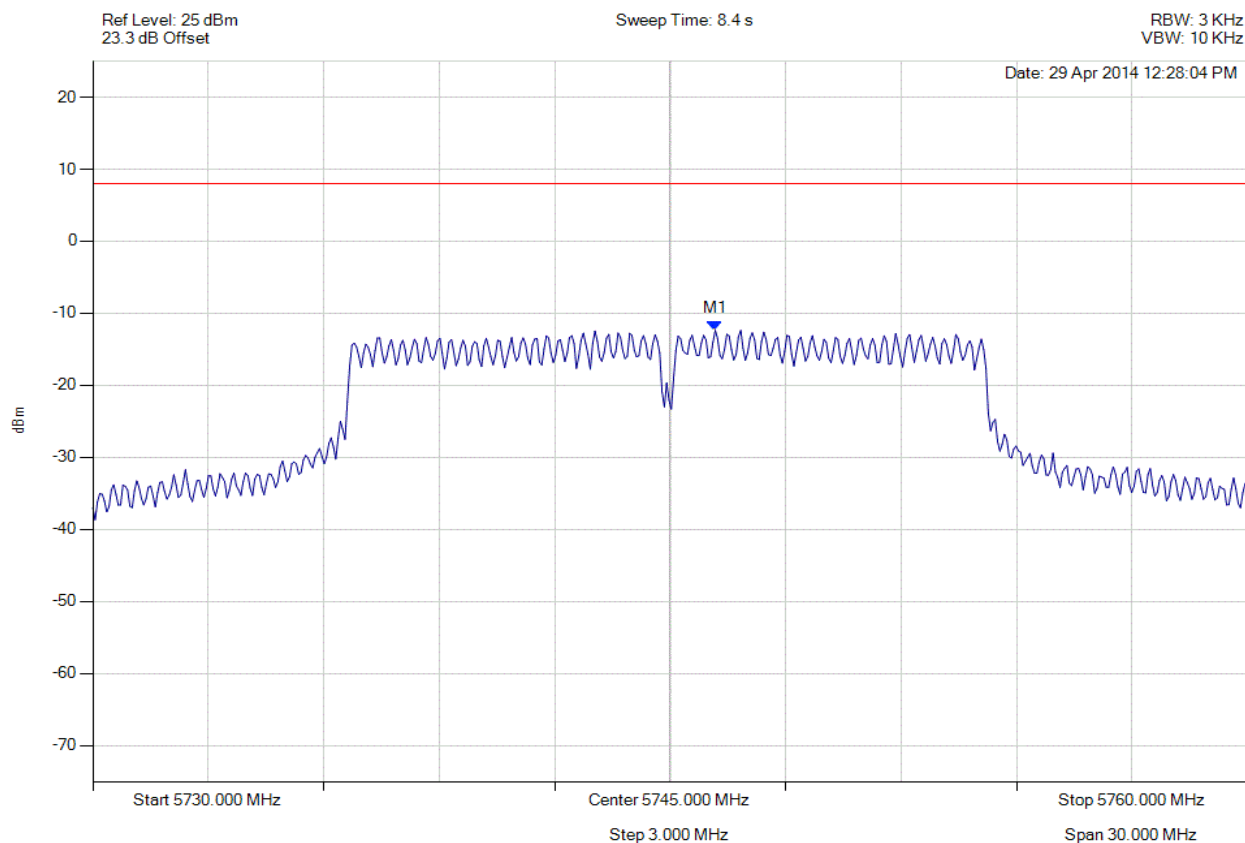


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 191 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5745.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.200 MHz : -12.374 dBm M1 + DCCF : 5746.200 MHz : -12.104 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -20.1 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

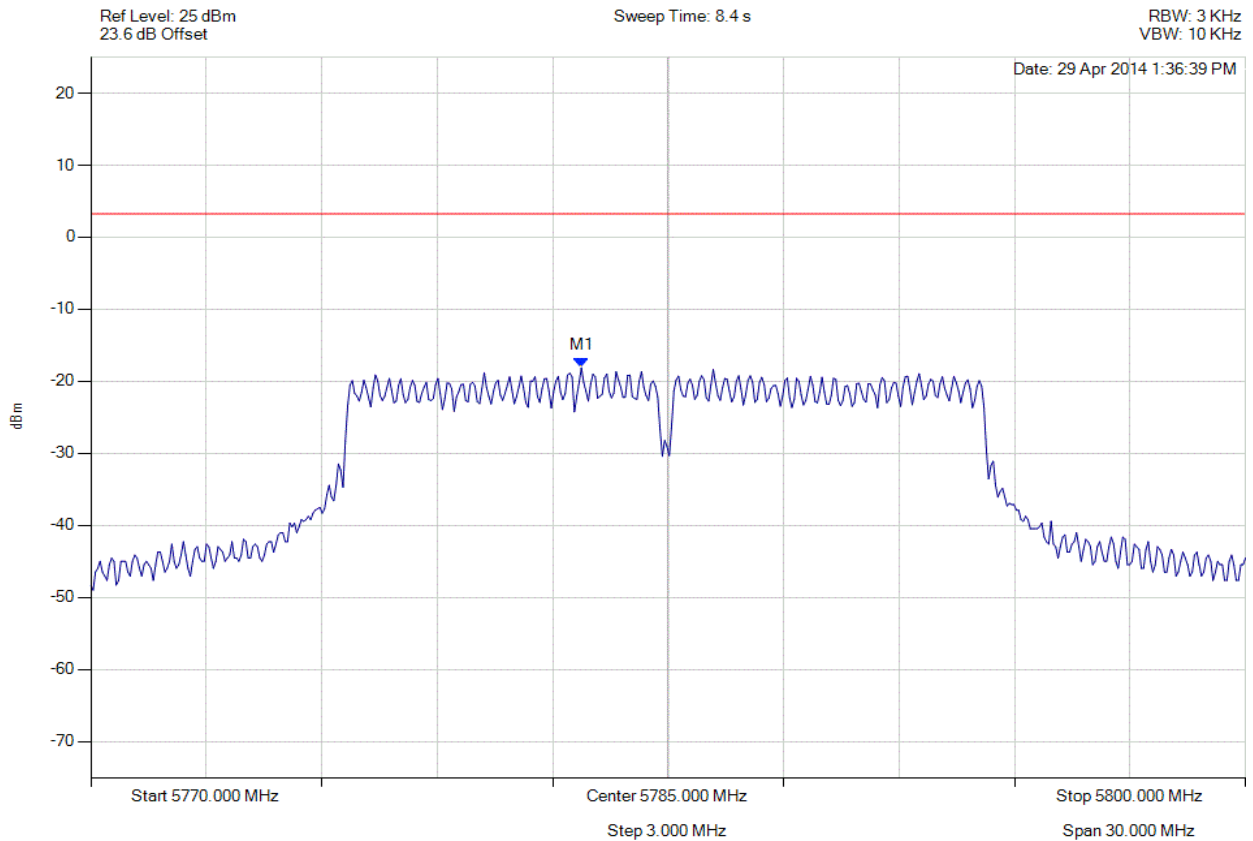


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 192 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5782.745 MHz : -18.121 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



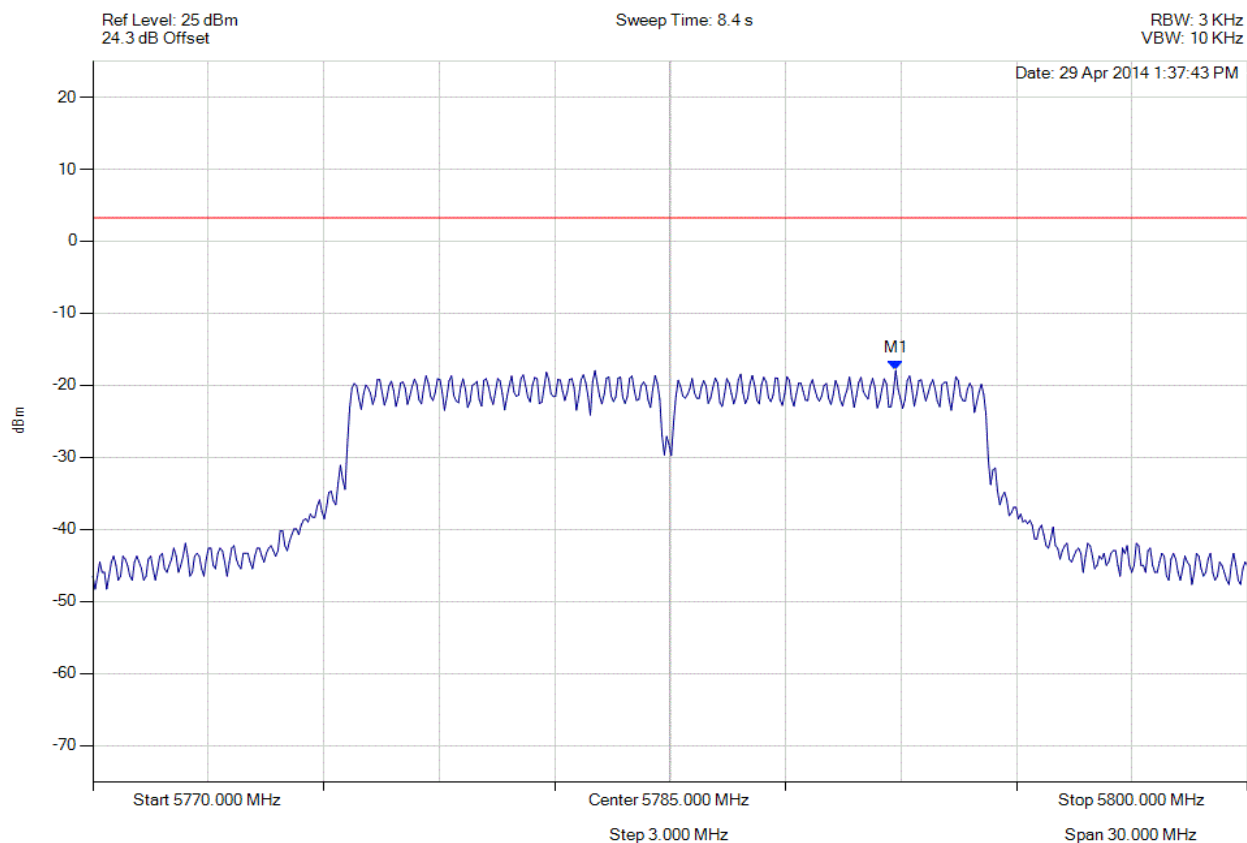


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 193 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5790.862 MHz : -17.936 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

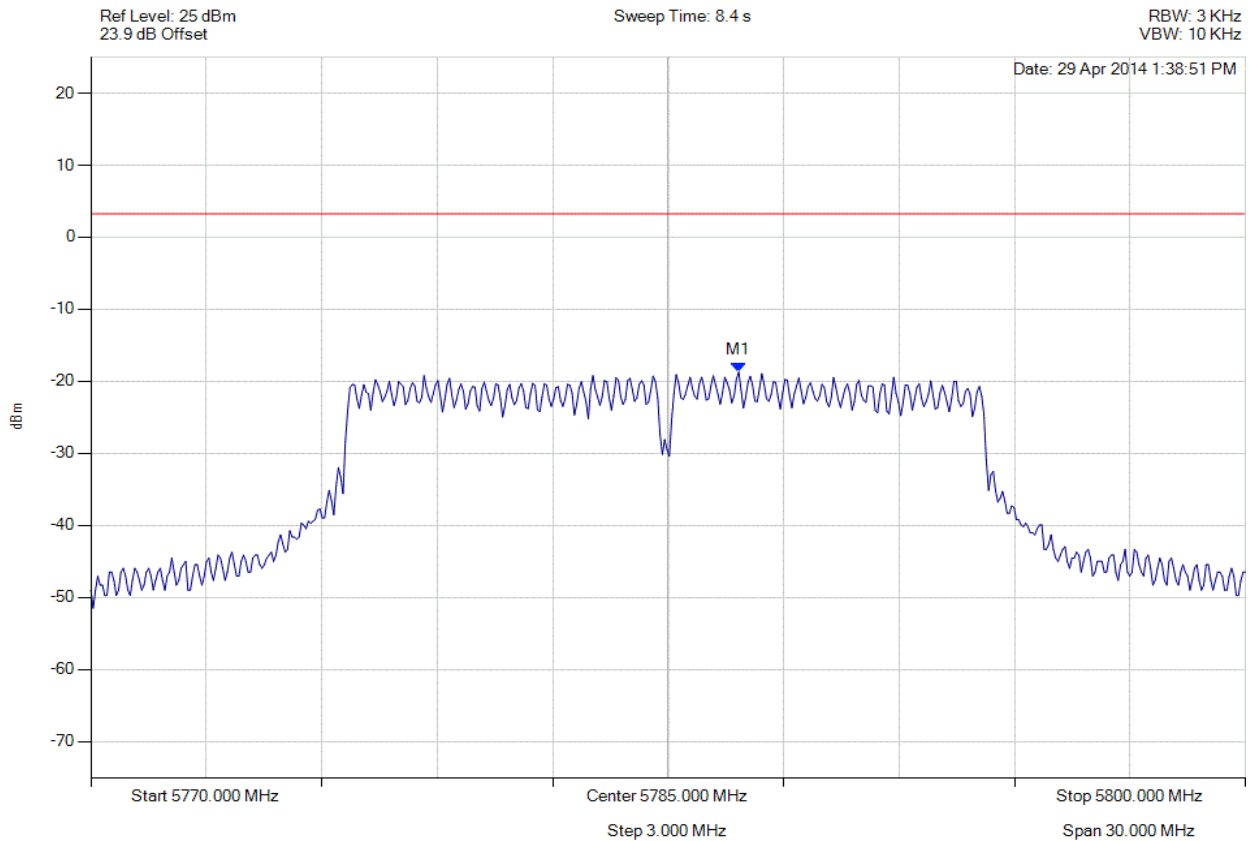


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 194 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5786.834 MHz : -18.722 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

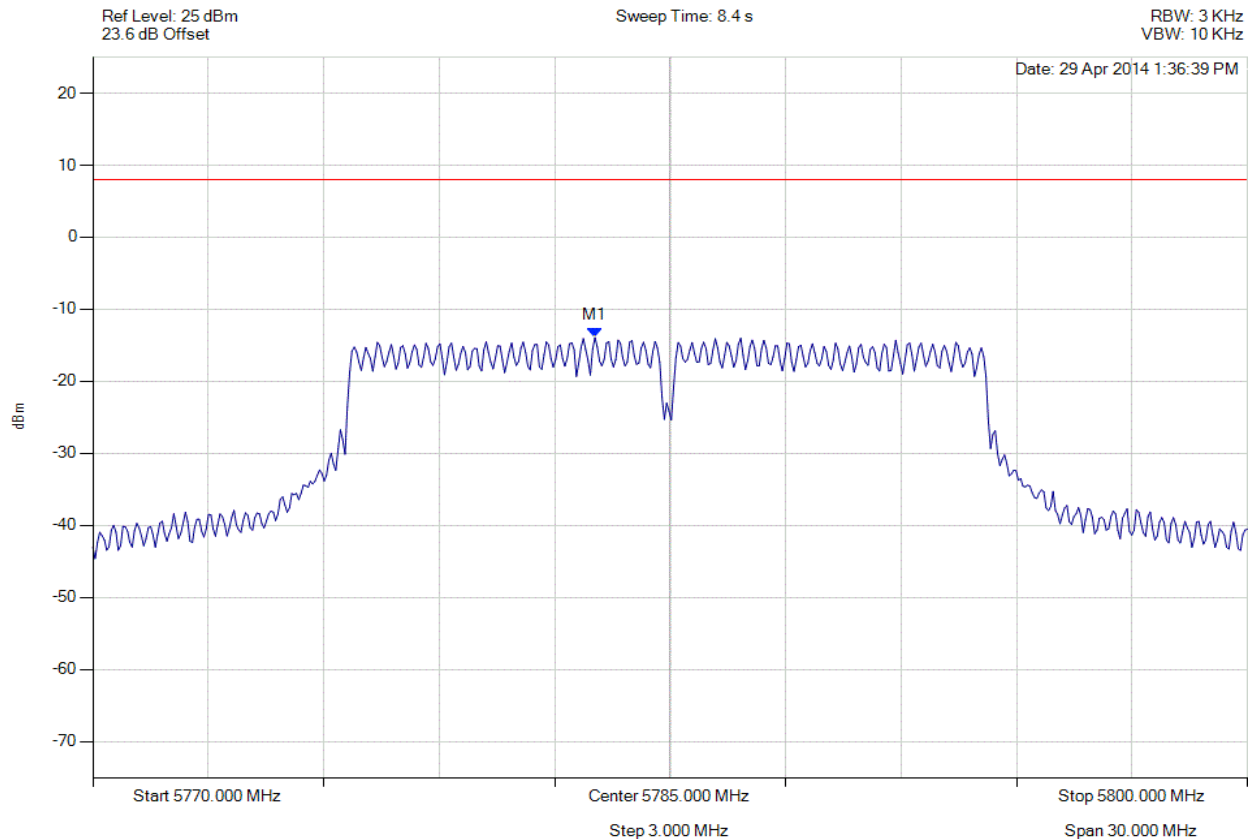


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 195 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5785.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5783.000 MHz : -13.933 dBm M1 + DCCF : 5783.000 MHz : -13.663 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -21.6 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

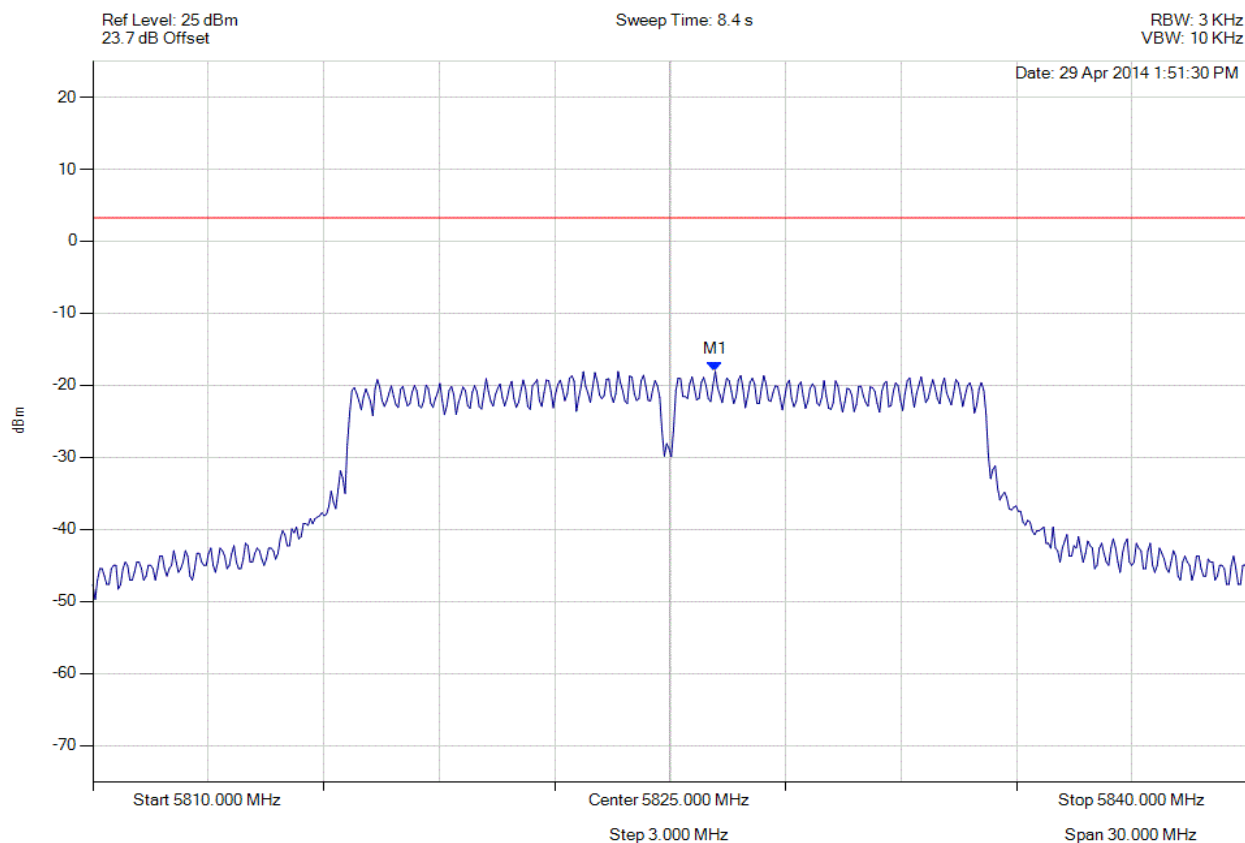


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 196 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5826.172 MHz : -18.080 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

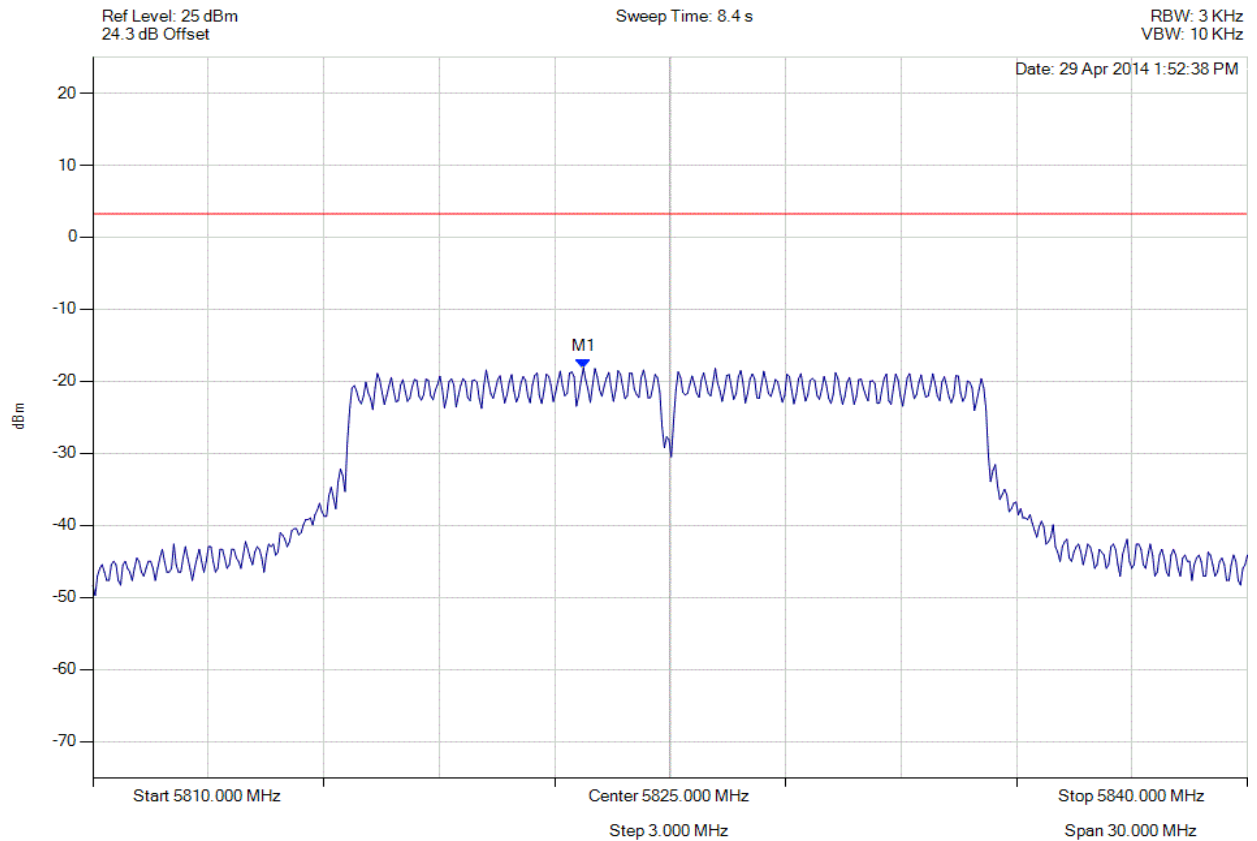


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 197 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5822.745 MHz : -18.142 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

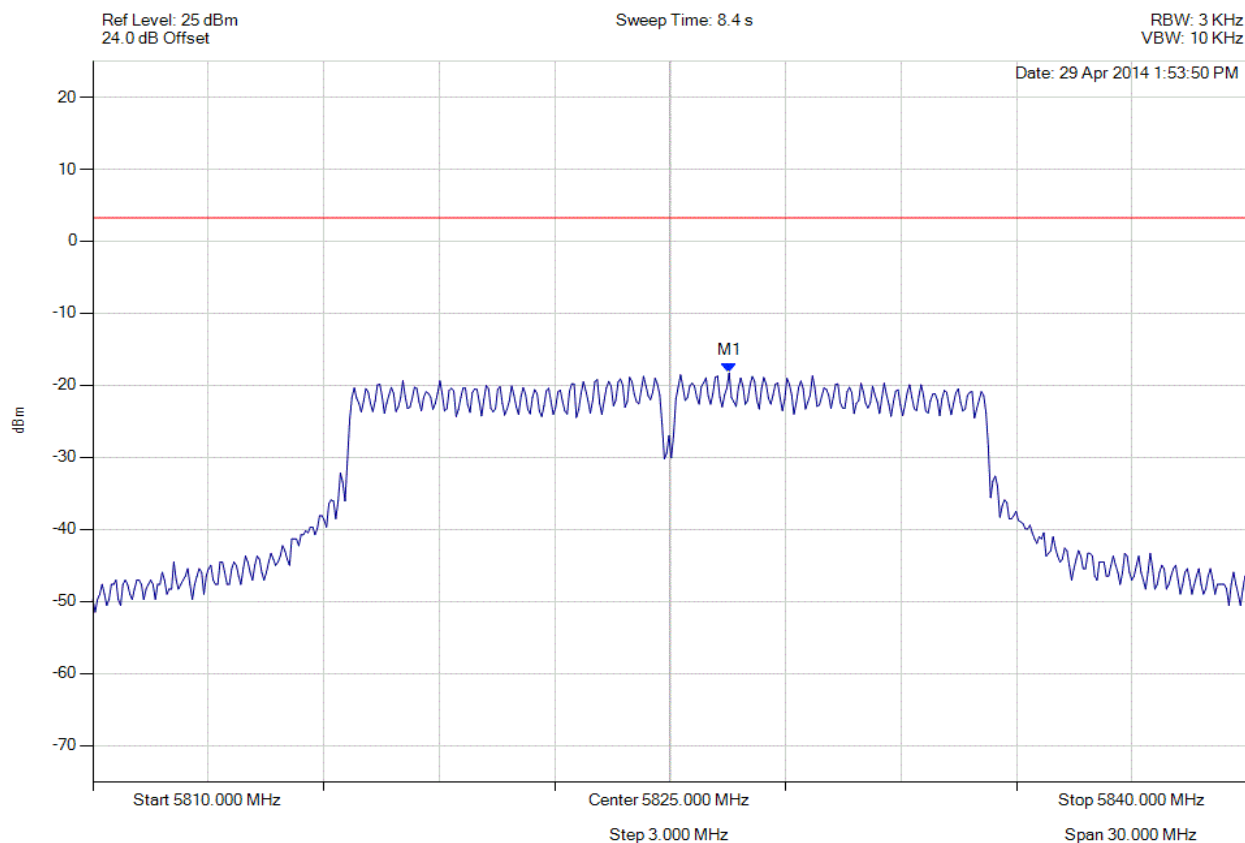


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 198 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5826.533 MHz : -18.289 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

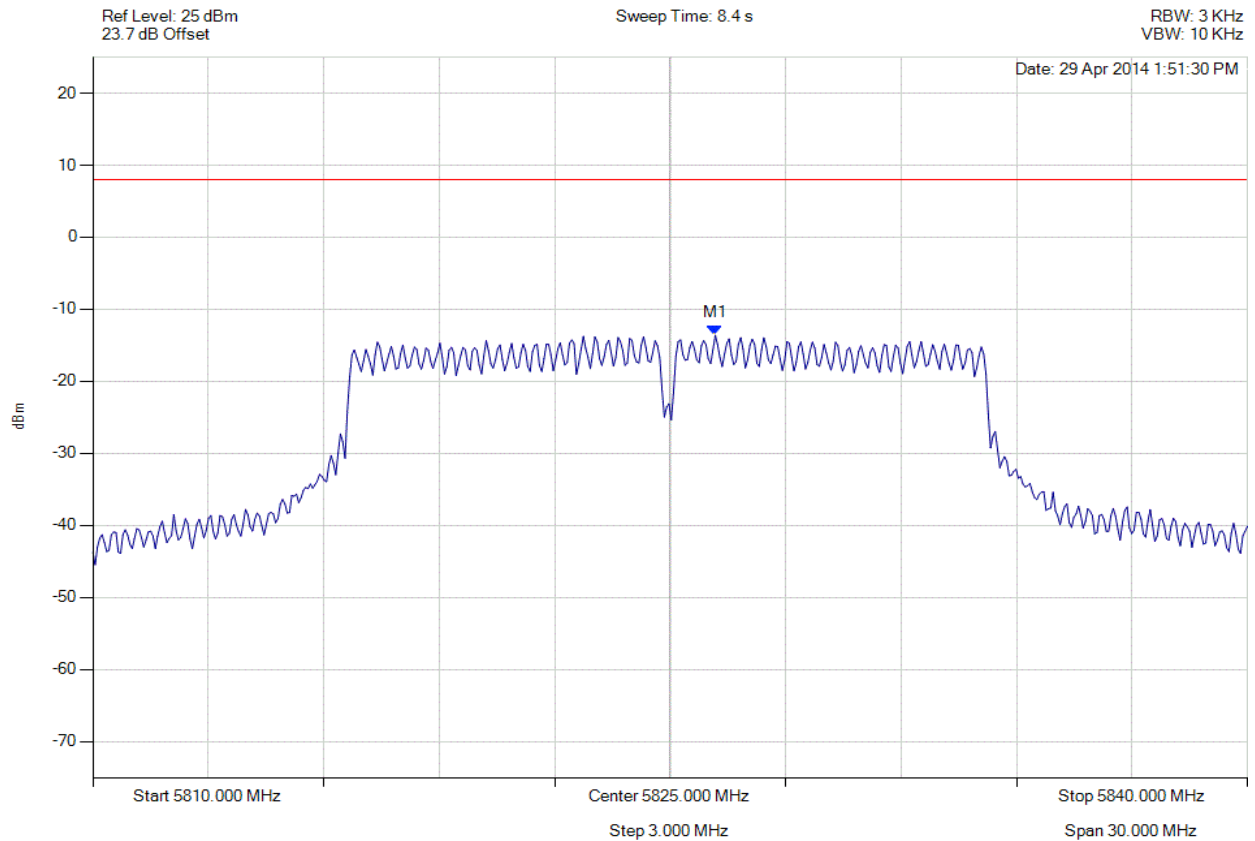


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 199 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11a, Channel: 5825.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5826.200 MHz : -13.616 dBm M1 + DCCF : 5826.200 MHz : -13.346 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -21.3 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

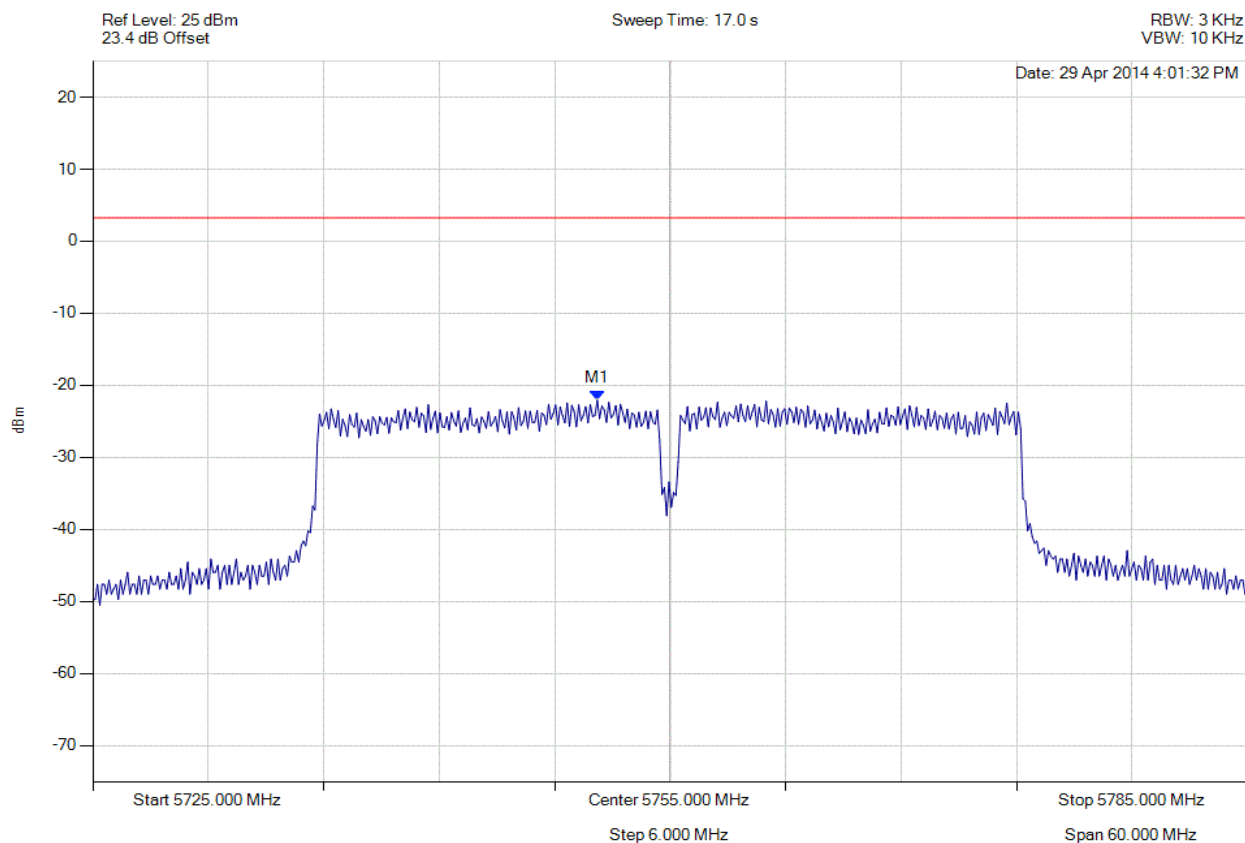


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 200 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5755.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.212 MHz : -22.068 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



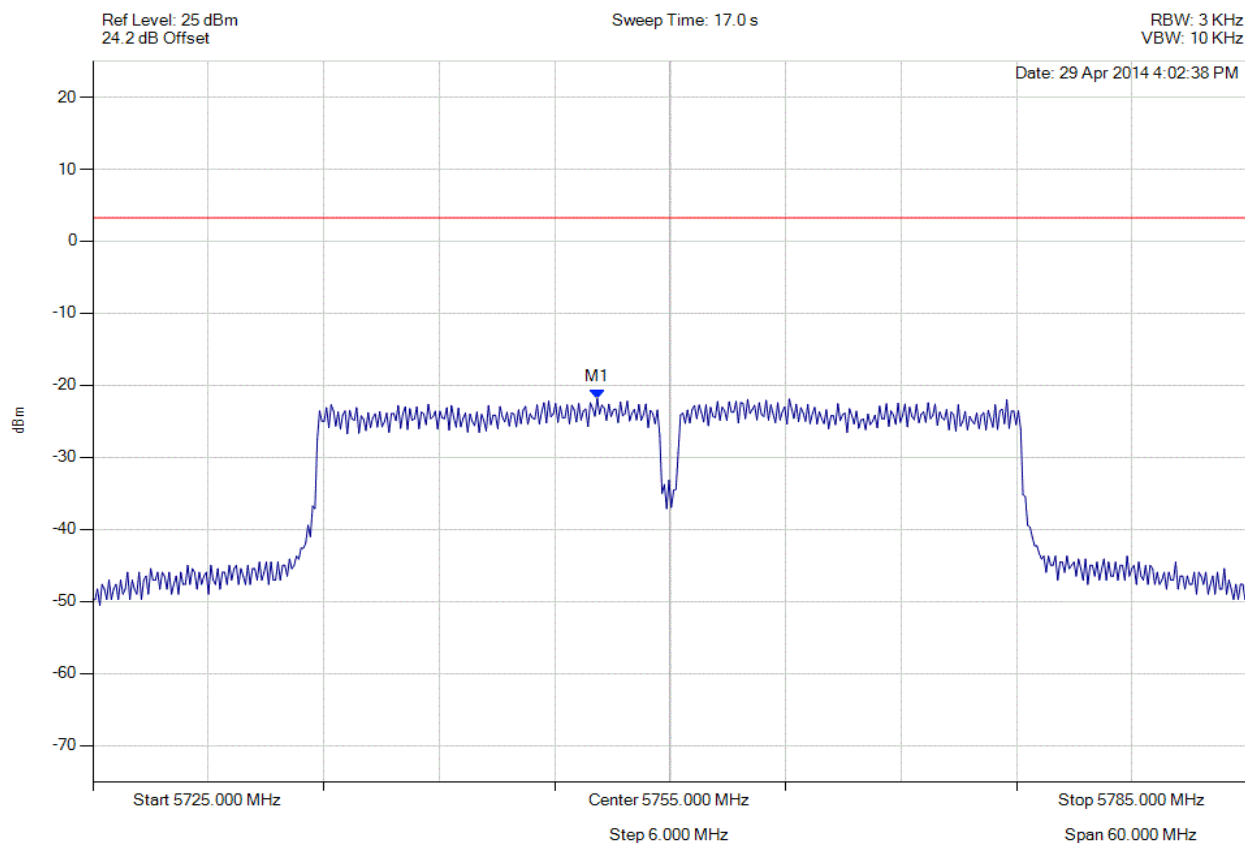


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 201 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5755.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.212 MHz : -21.810 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

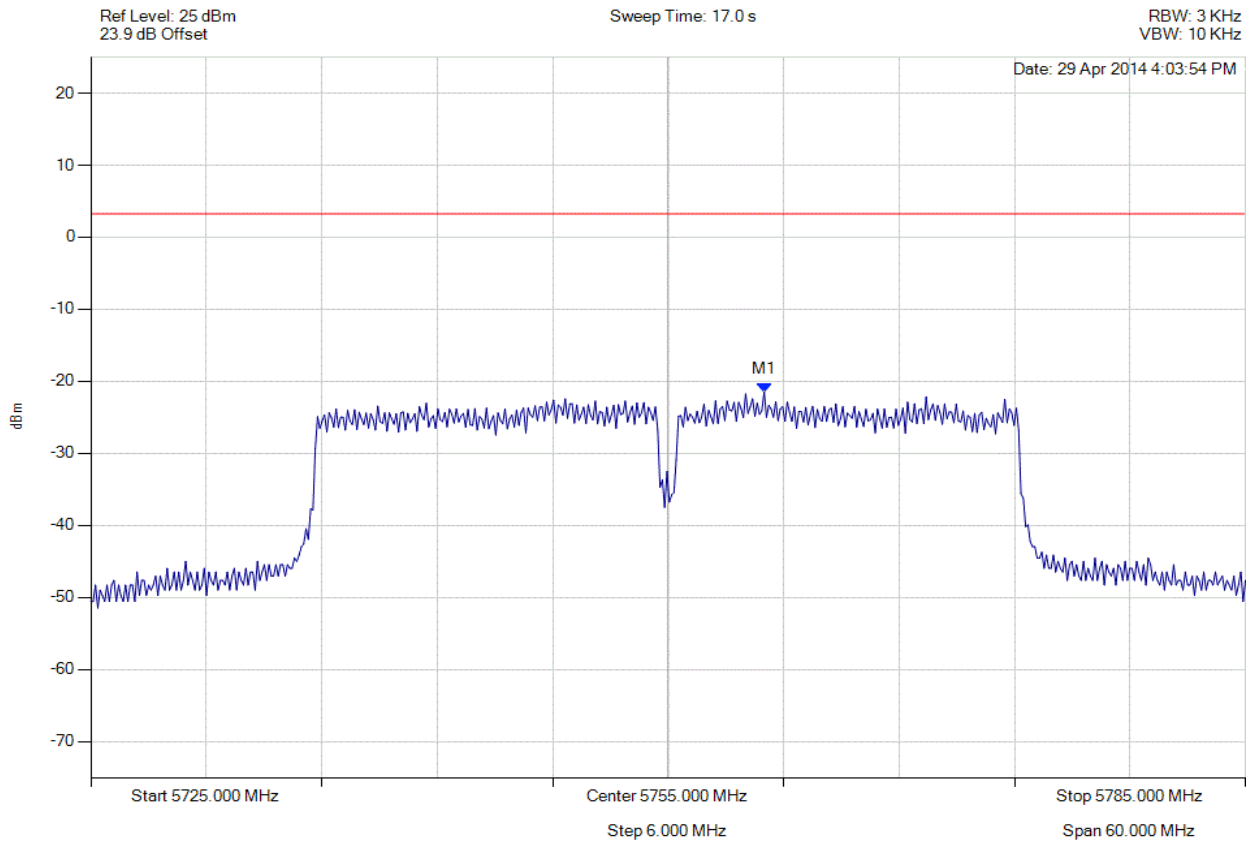


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 202 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5755.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5759.990 MHz : -21.468 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

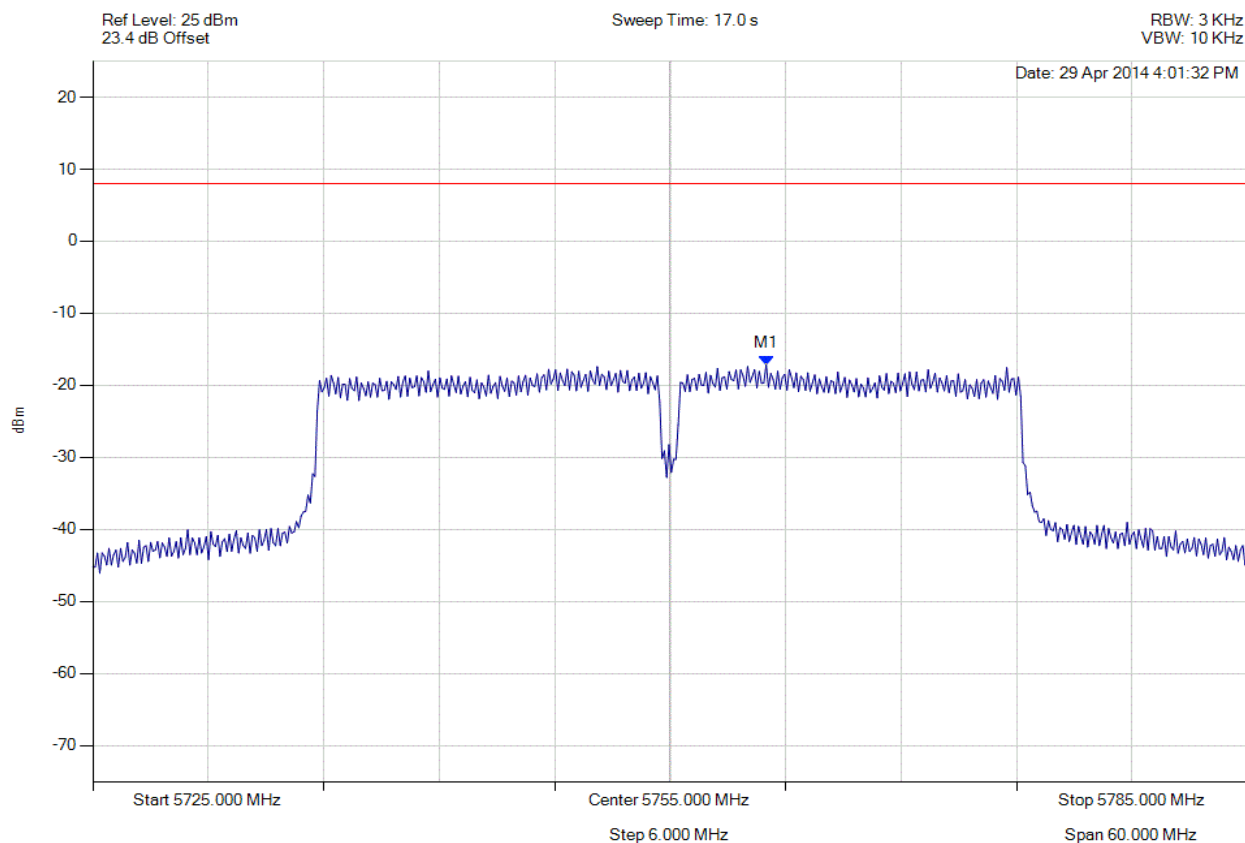


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 203 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5755.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5760.000 MHz : -17.139 dBm M1 + DCCF : 5760.000 MHz : -16.868 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -24.8 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

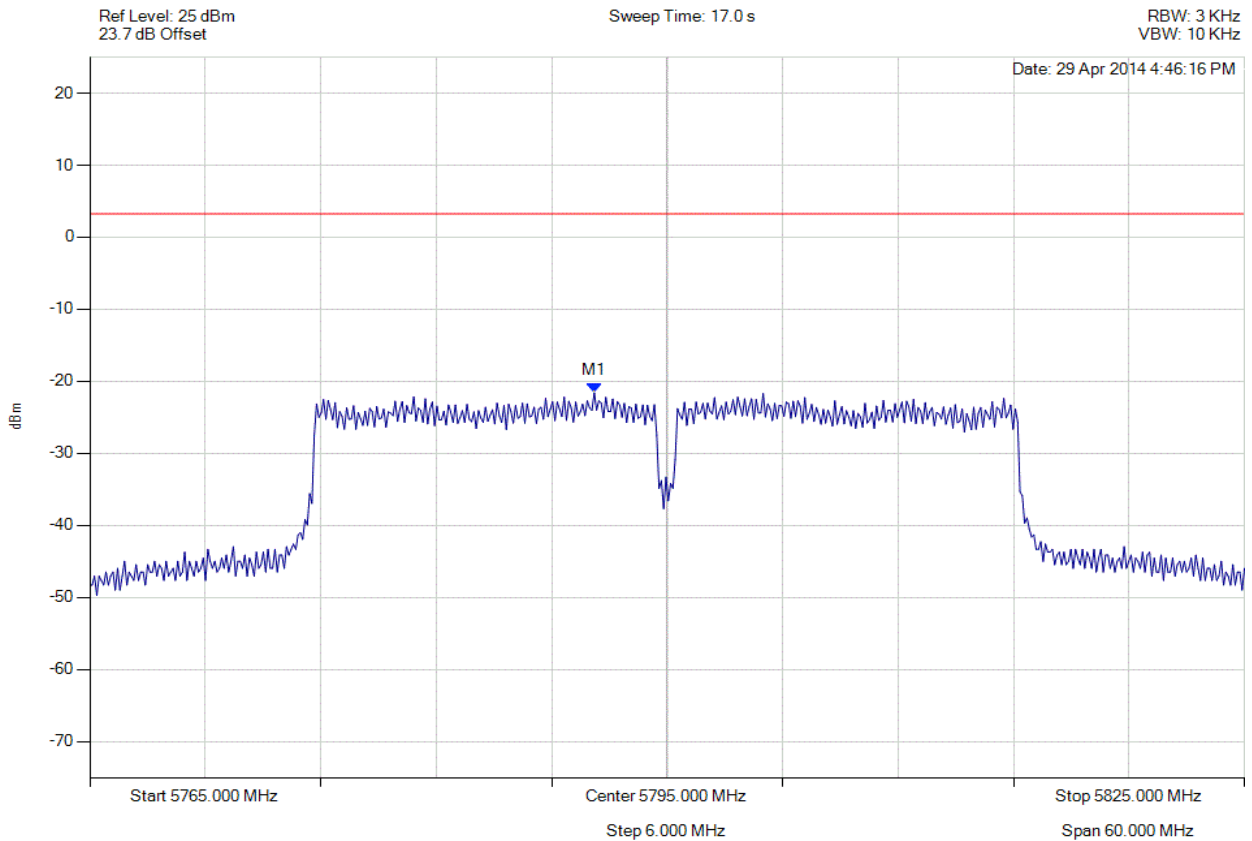


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 204 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5795.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.212 MHz : -21.591 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

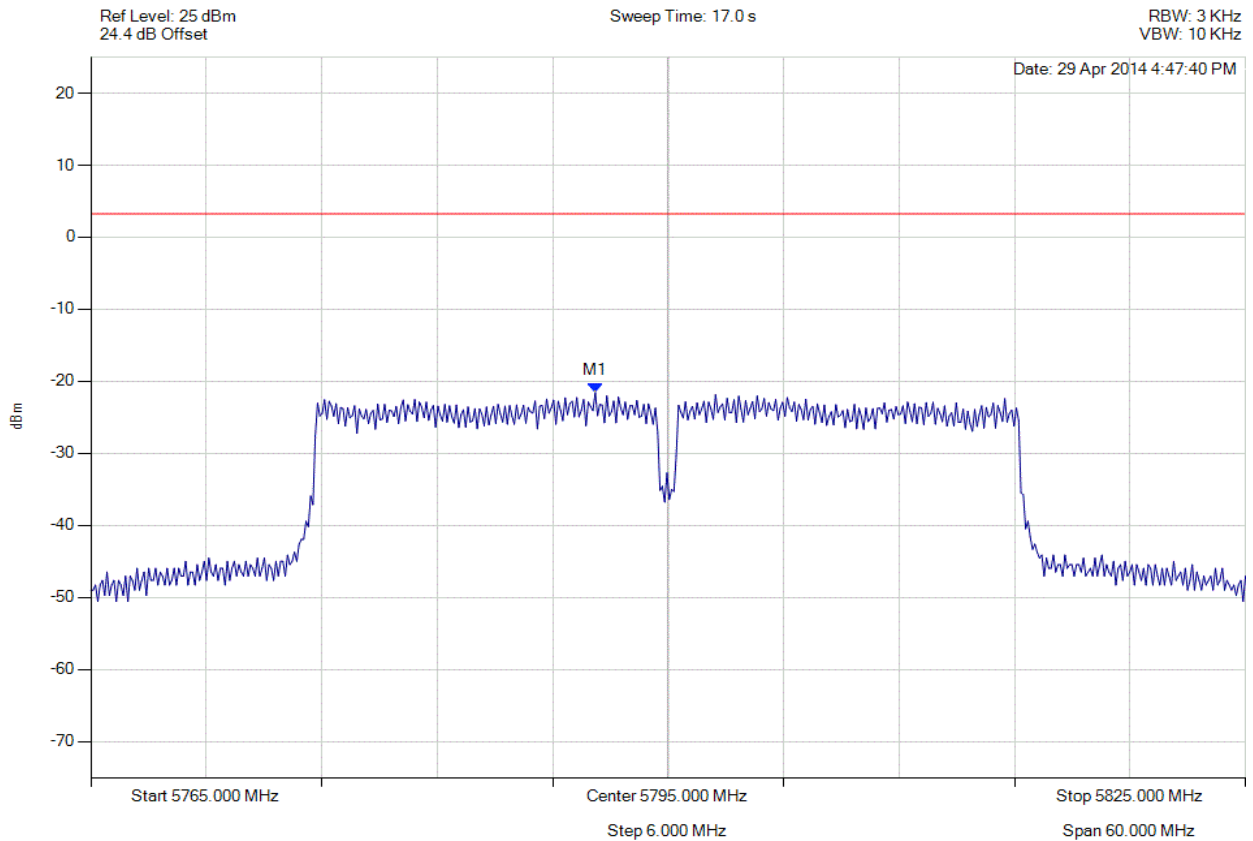


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 205 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5795.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.212 MHz : -21.560 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

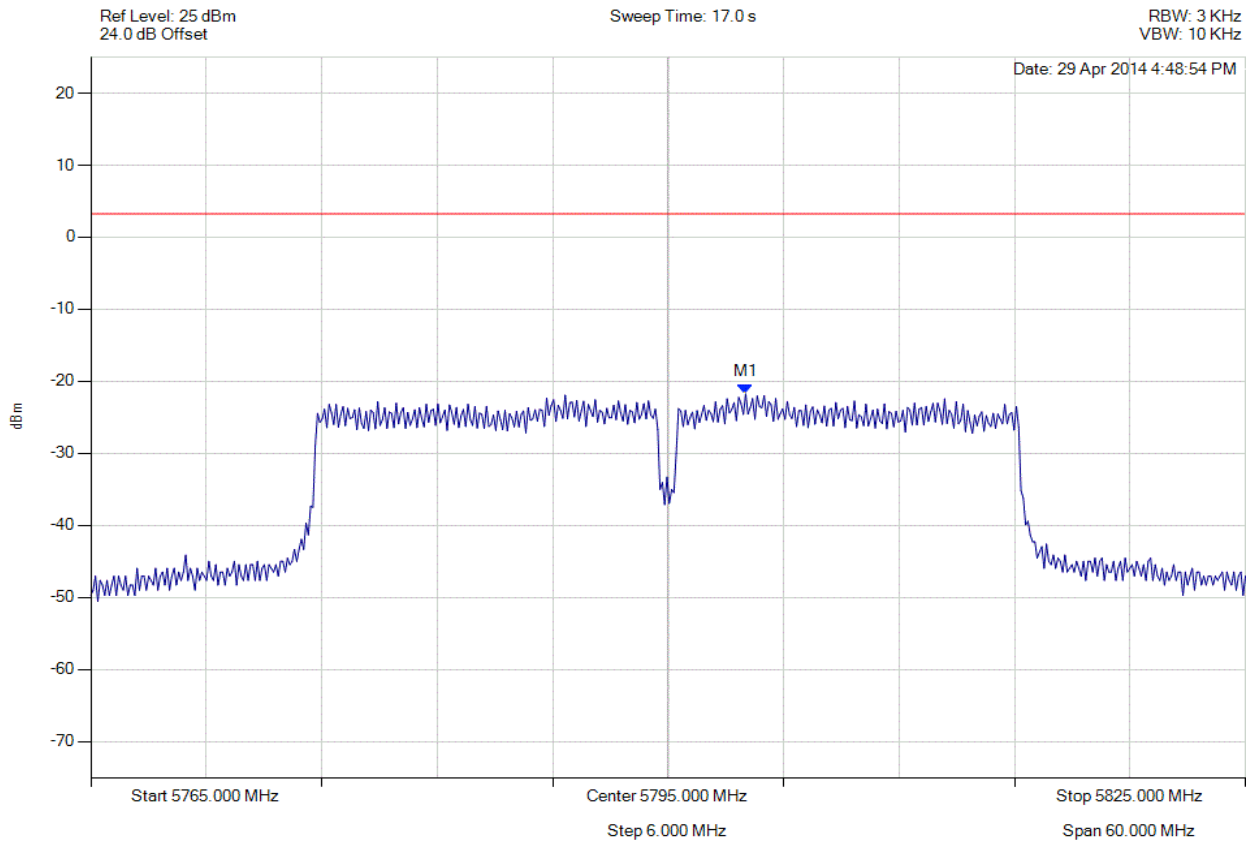


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 206 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5795.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5799.028 MHz : -21.747 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

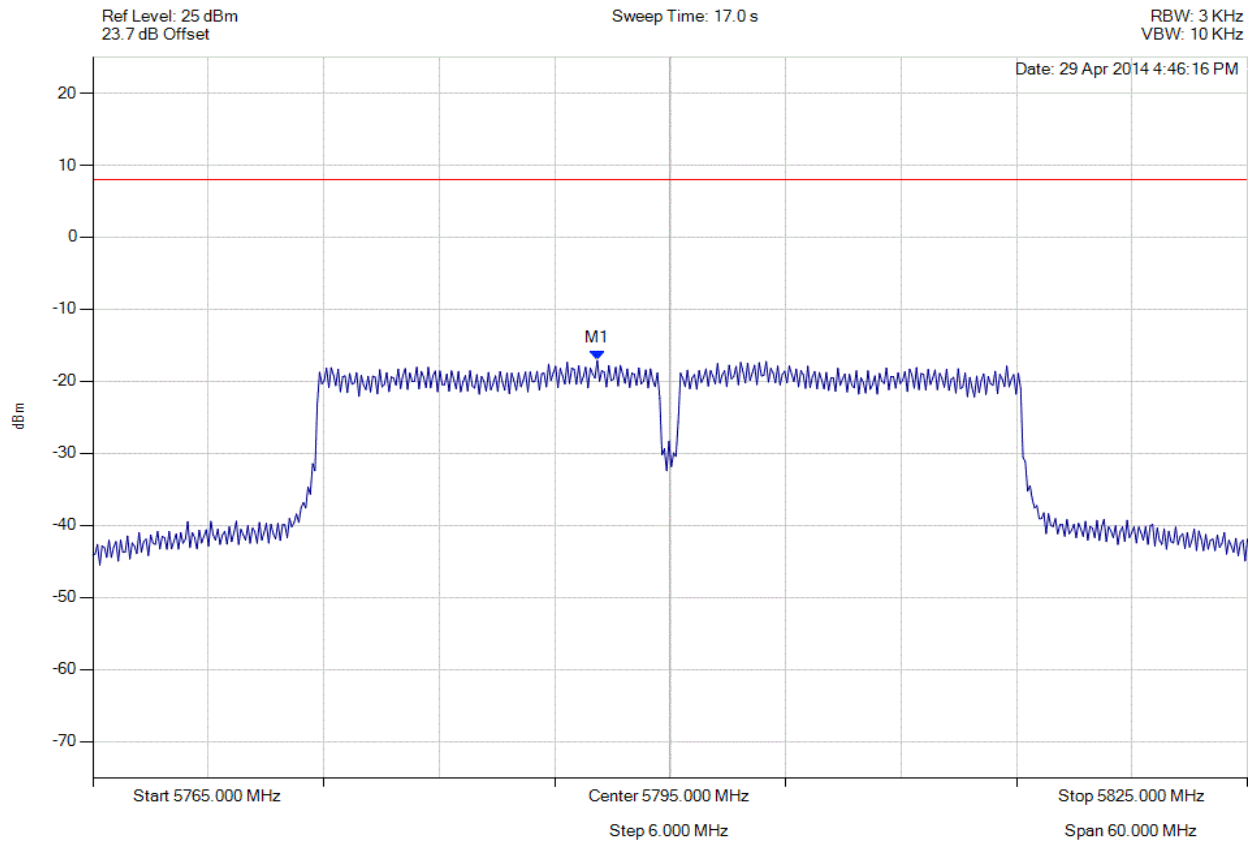


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 207 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-40, Channel: 5795.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.200 MHz : -17.112 dBm M1 + DCCF : 5791.200 MHz : -16.841 dBm Duty Cycle Correction Factor : +0.27 dB	Limit: $\leq 8.0$ dBm Margin: -24.8 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

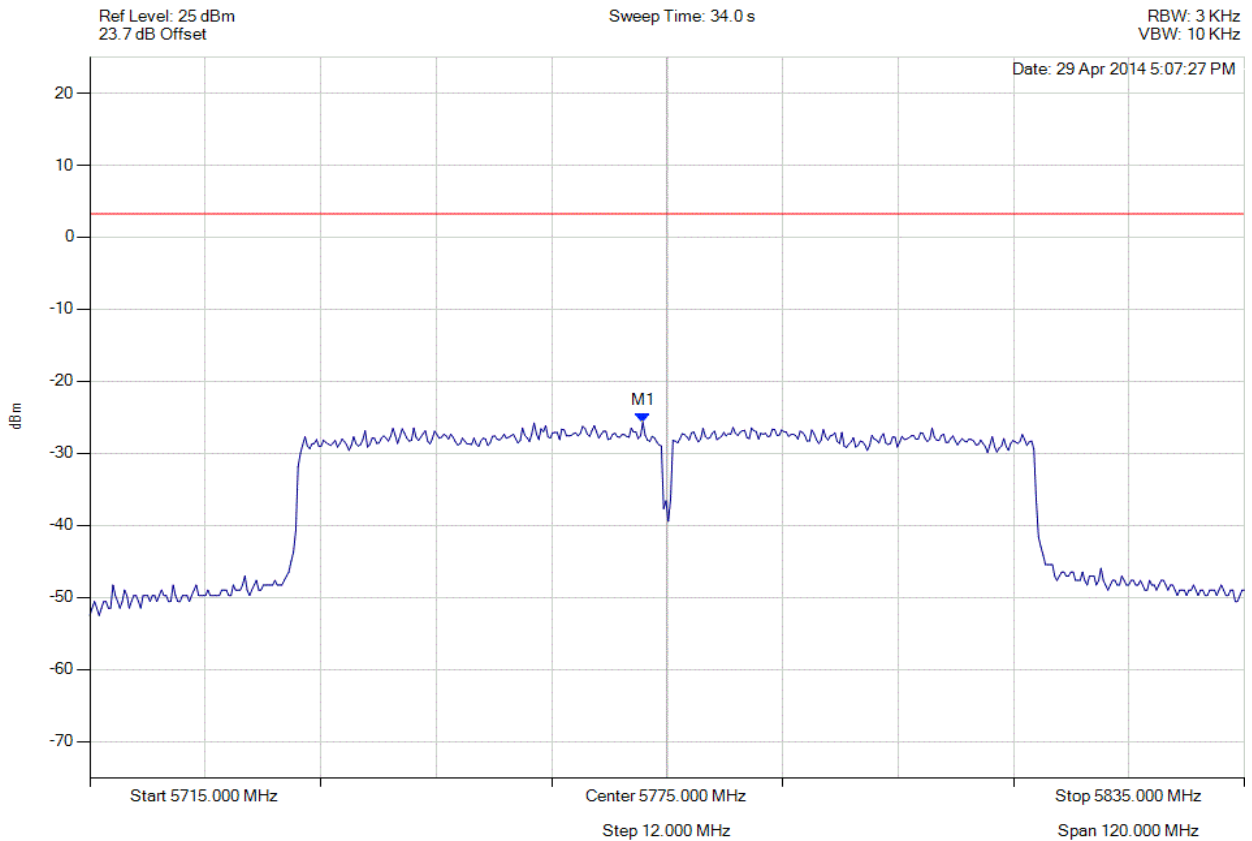


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 208 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5772.475 MHz : -25.705 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



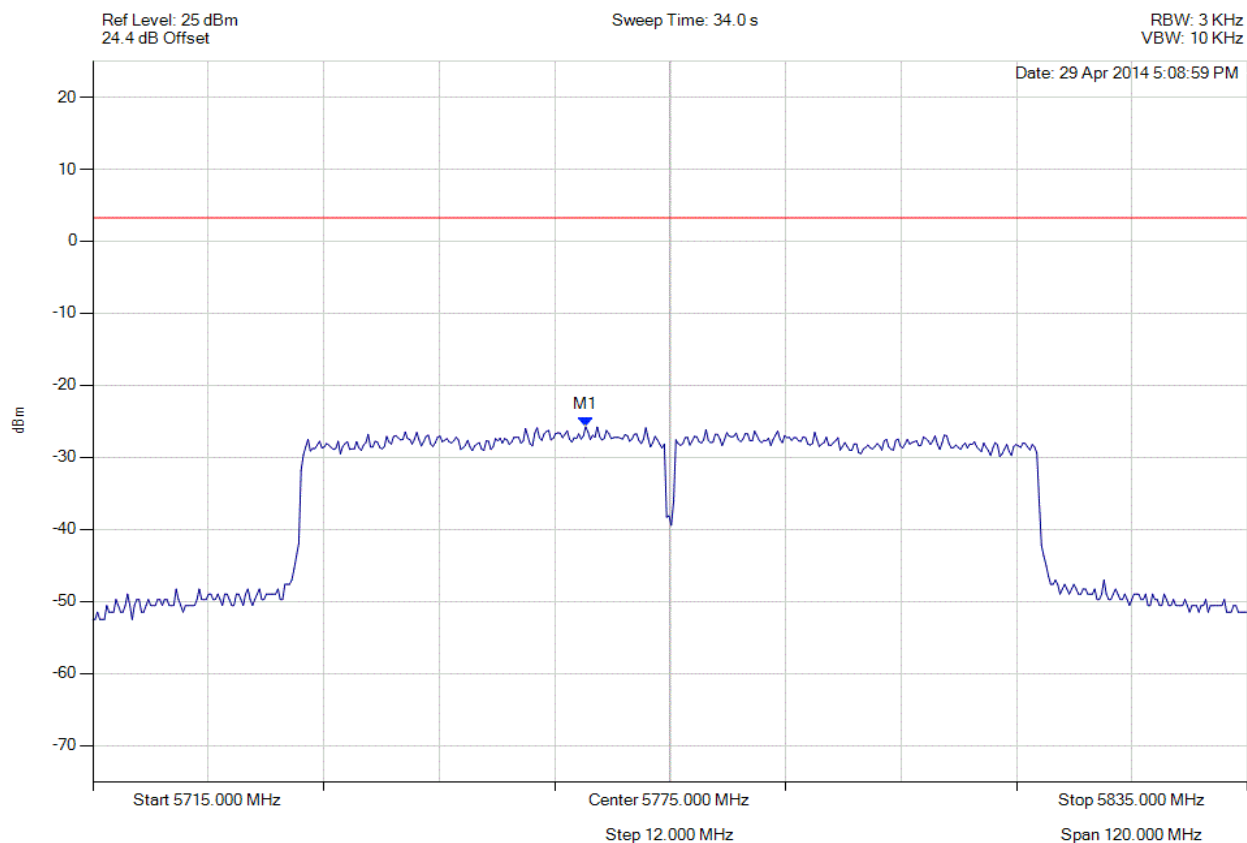


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 209 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5766.222 MHz : -25.754 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

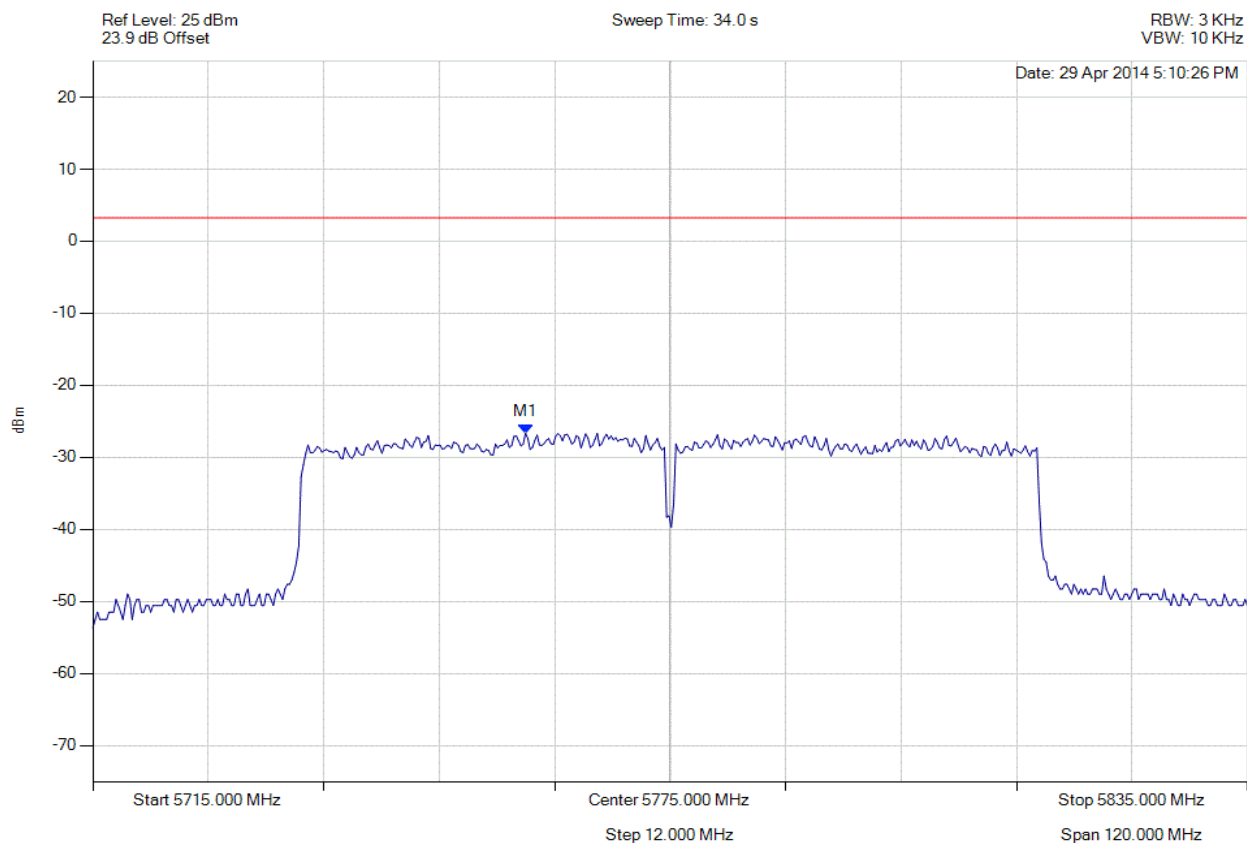


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 210 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5759.970 MHz : -26.647 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

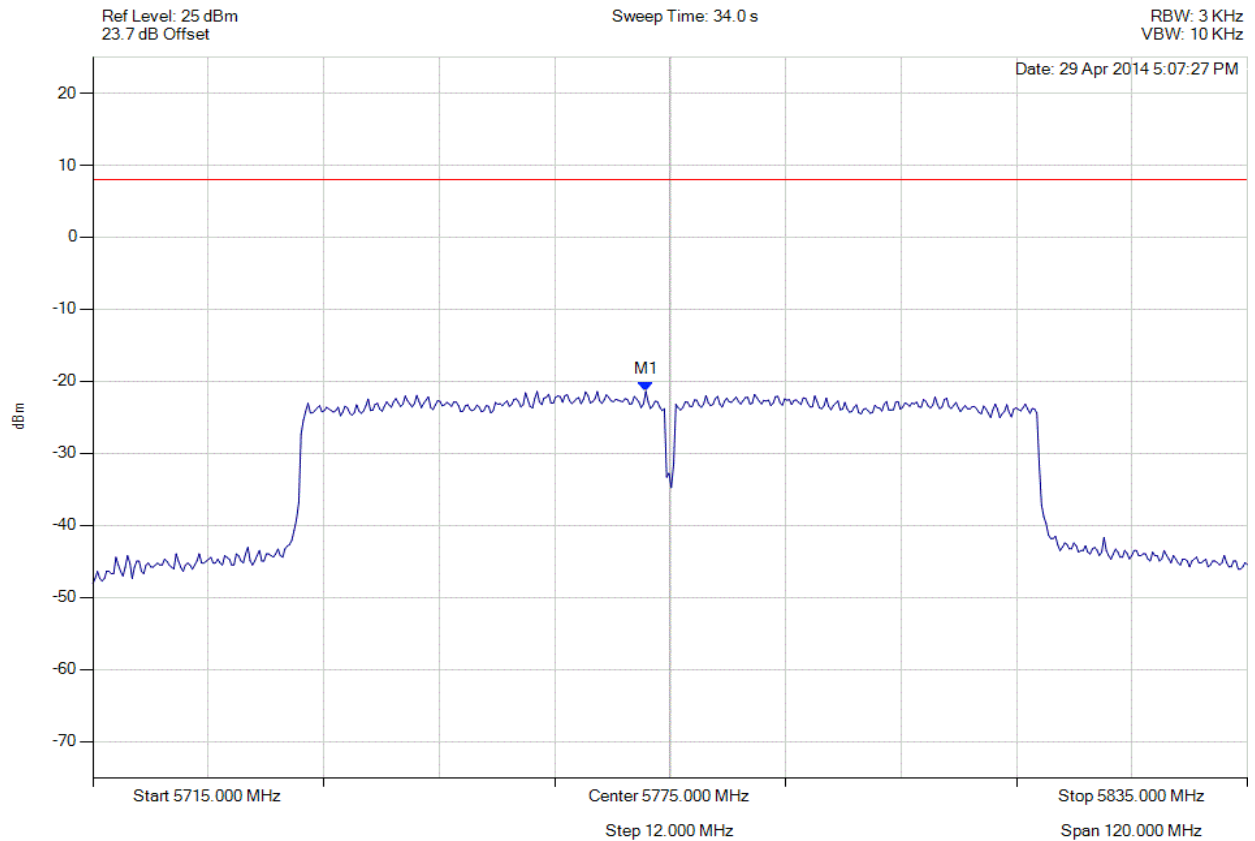


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 211 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5772.500 MHz : -21.392 dBm M1 + DCCF : 5772.500 MHz : -20.626 dBm Duty Cycle Correction Factor : +0.77 dB	Limit: $\leq 8.0$ dBm Margin: -28.6 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

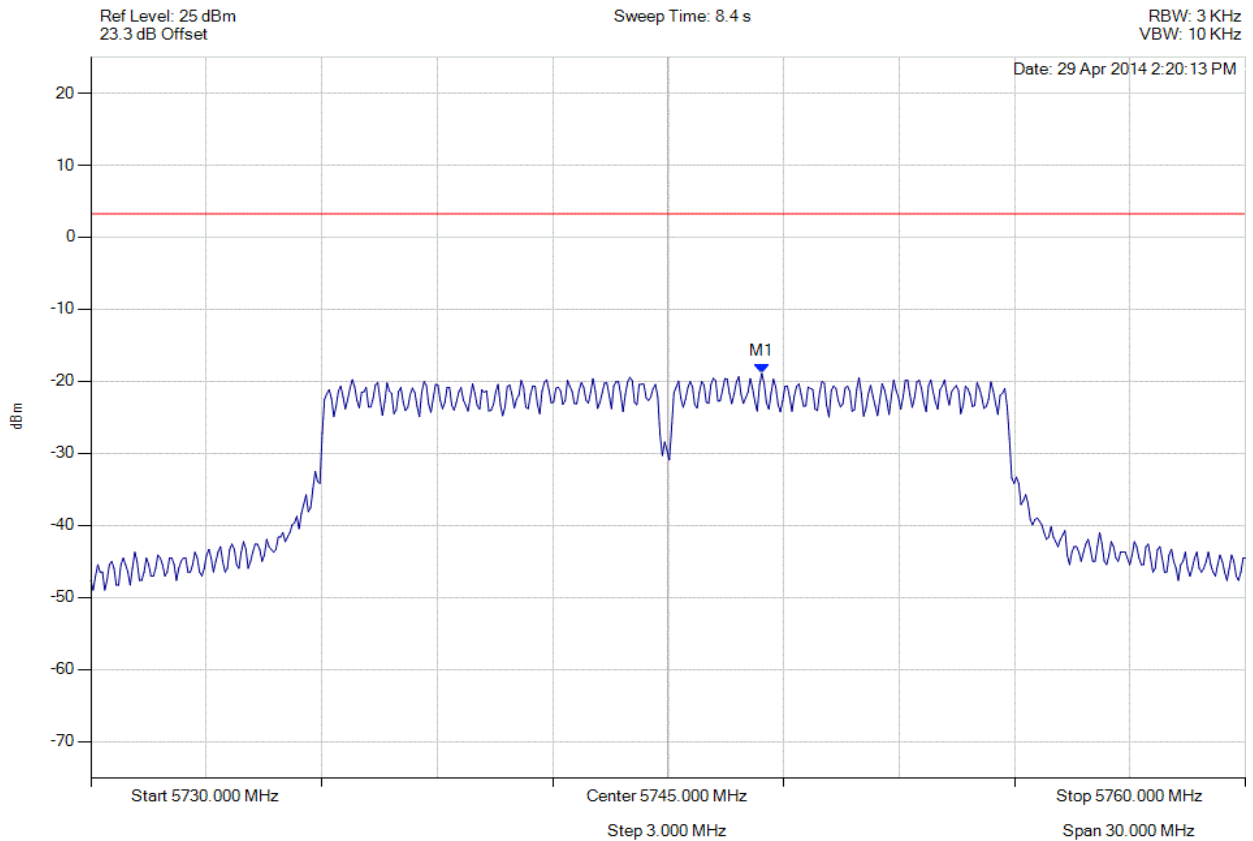


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 212 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5747.435 MHz : -18.901 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

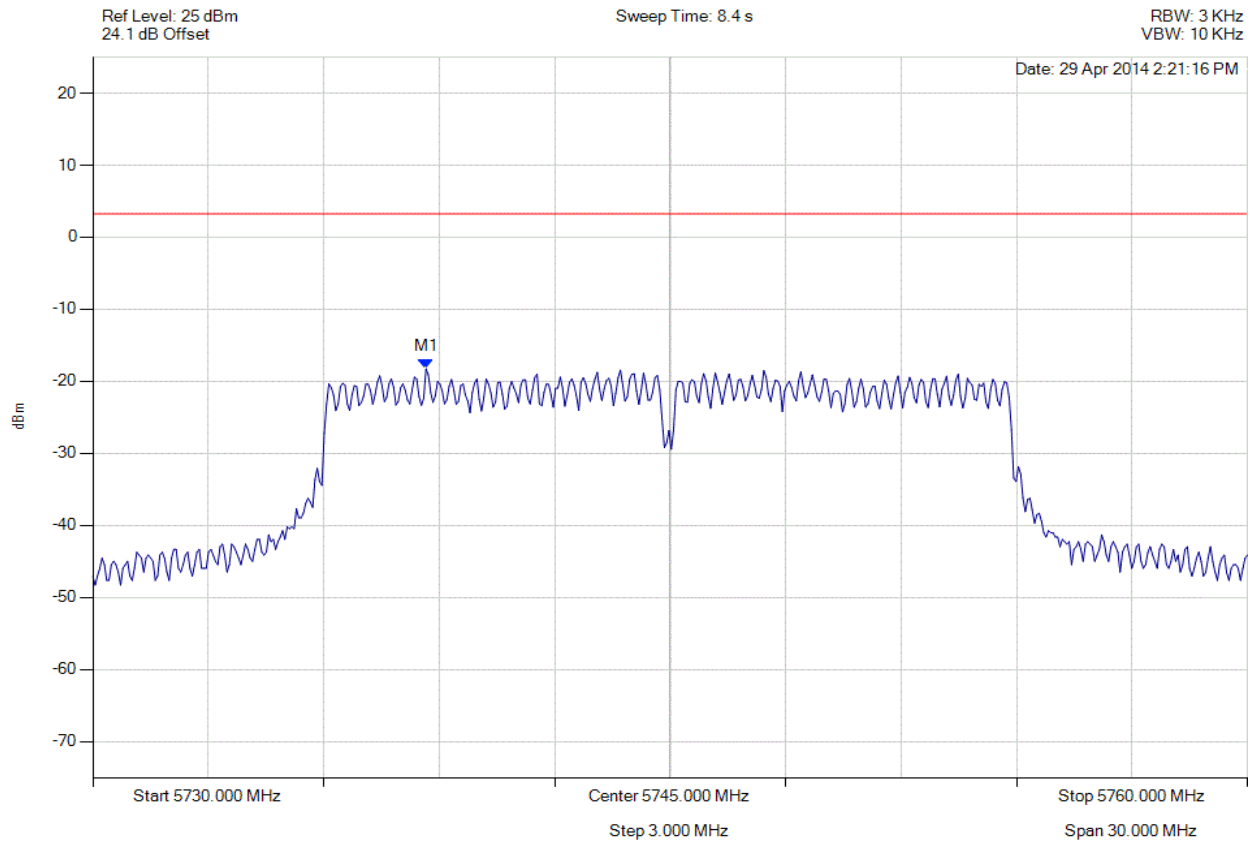


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 213 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5738.657 MHz : -18.267 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

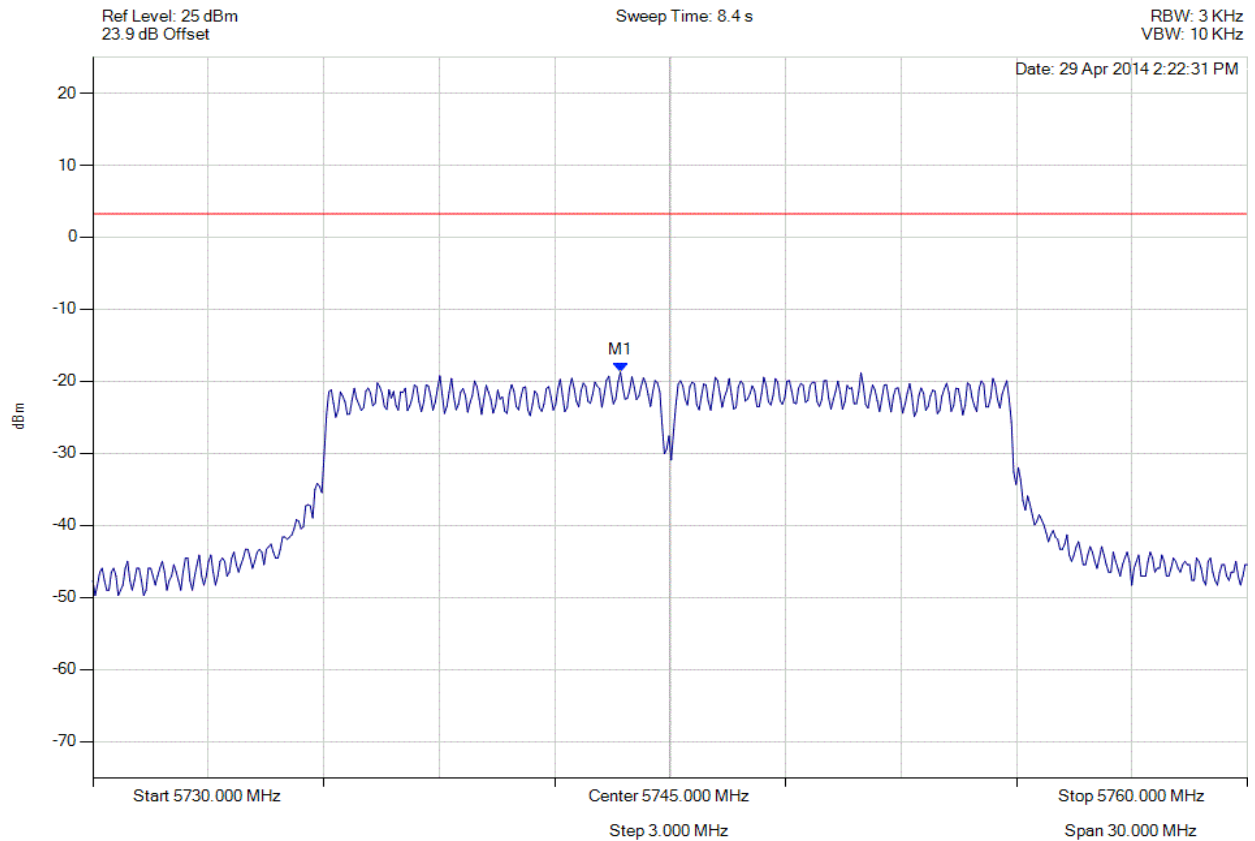


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 214 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5743.707 MHz : -18.722 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

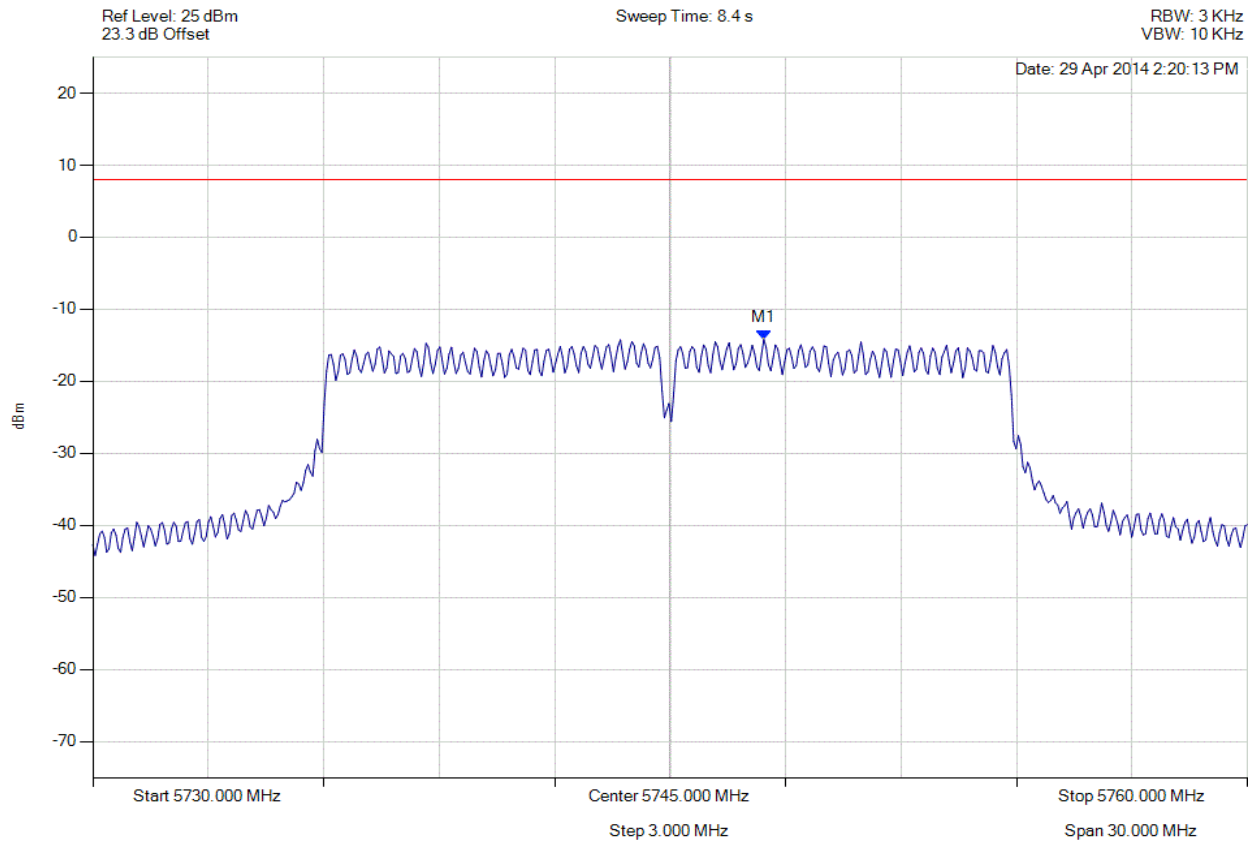


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 215 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5745.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5747.400 MHz : -14.175 dBm M1 + DCCF : 5747.400 MHz : -13.930 dBm Duty Cycle Correction Factor : +0.25 dB	Limit: $\leq 8.0$ dBm Margin: -21.9 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

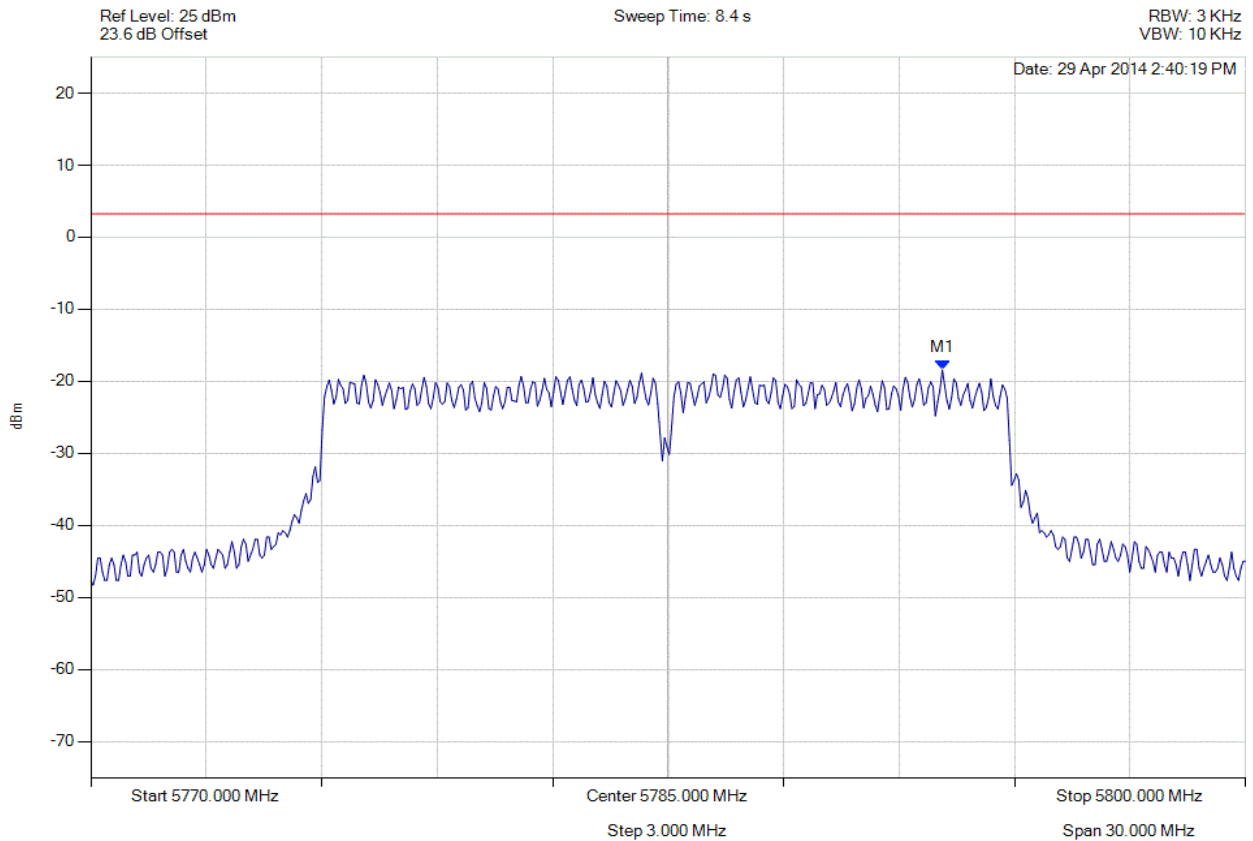


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 216 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.124 MHz : -18.416 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



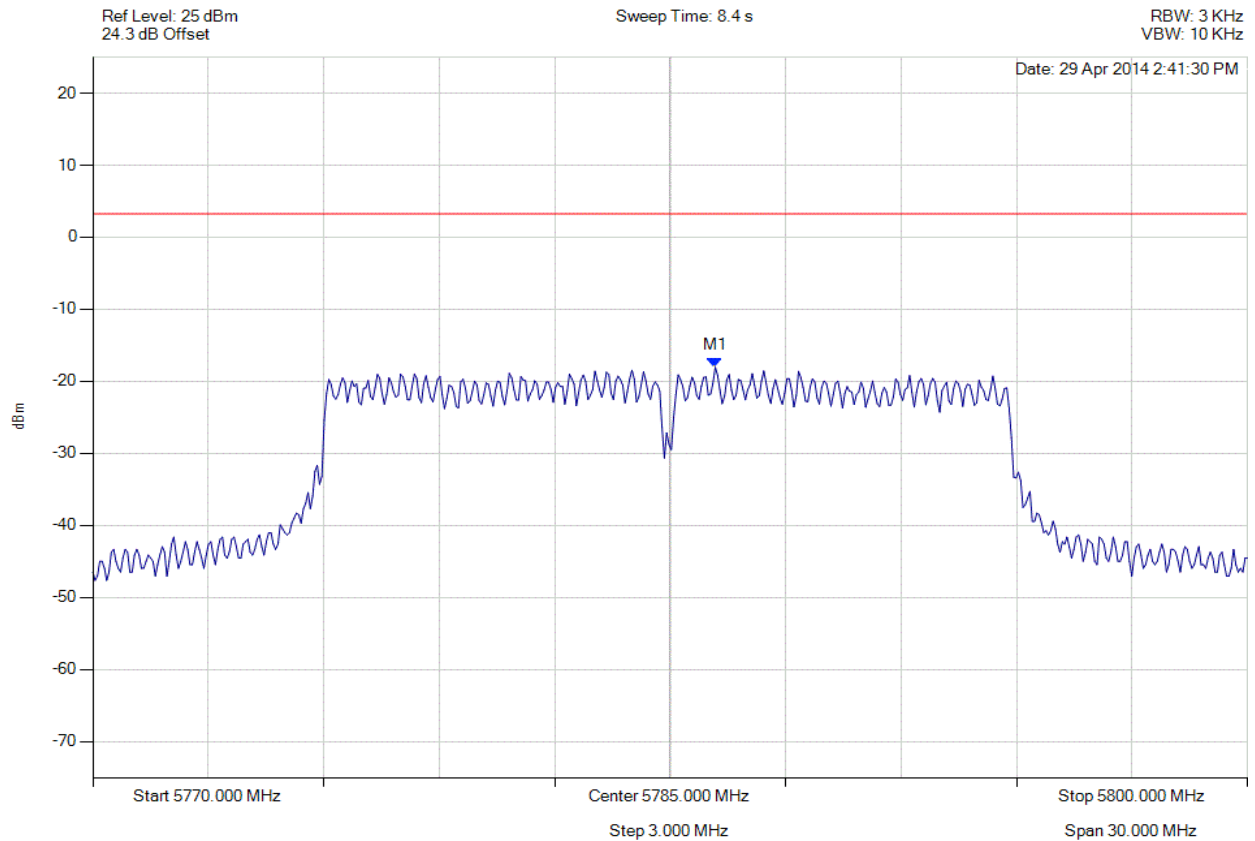


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 217 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5786.172 MHz : -18.059 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

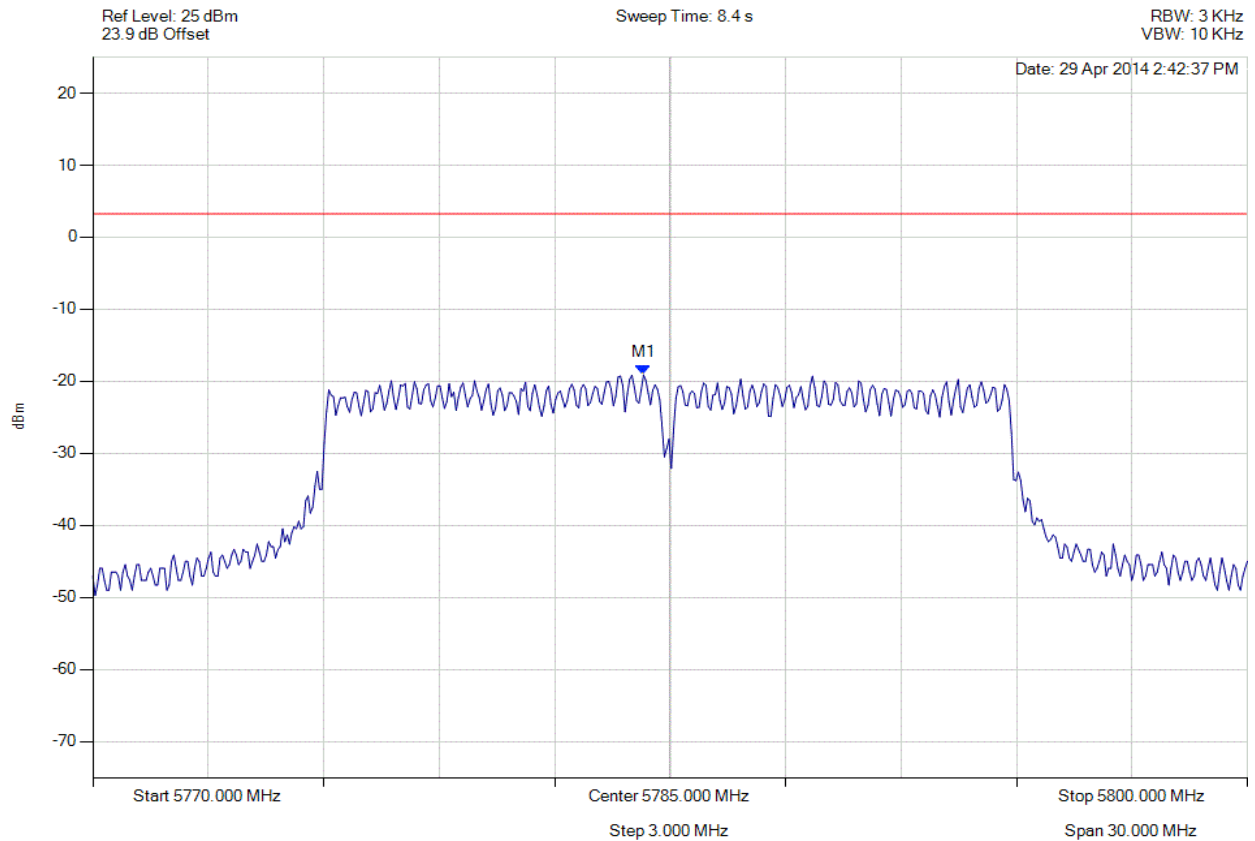


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 218 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5784.309 MHz : -19.108 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

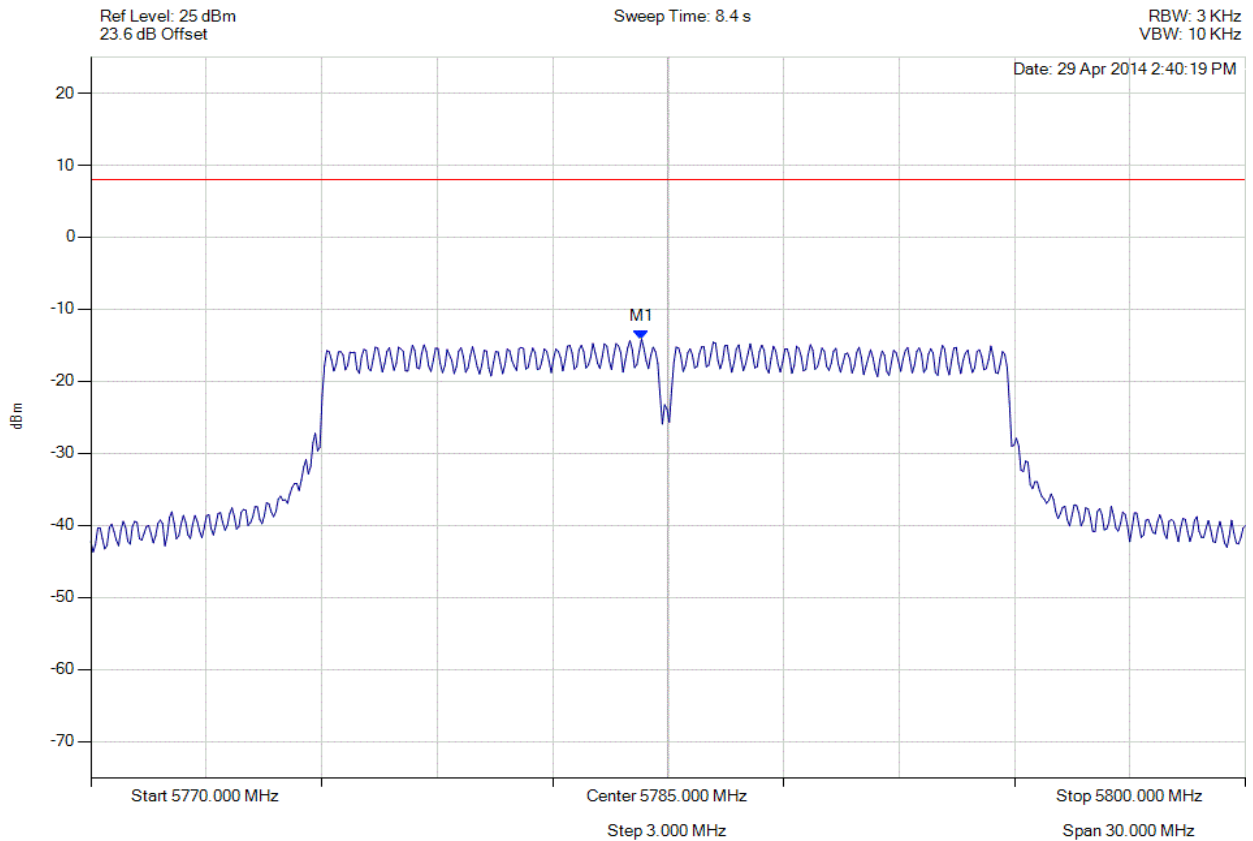


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 219 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5785.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5784.300 MHz : -14.121 dBm M1 + DCCF : 5784.300 MHz : -13.876 dBm Duty Cycle Correction Factor : +0.25 dB	Limit: $\leq 8.0$ dBm Margin: -21.8 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

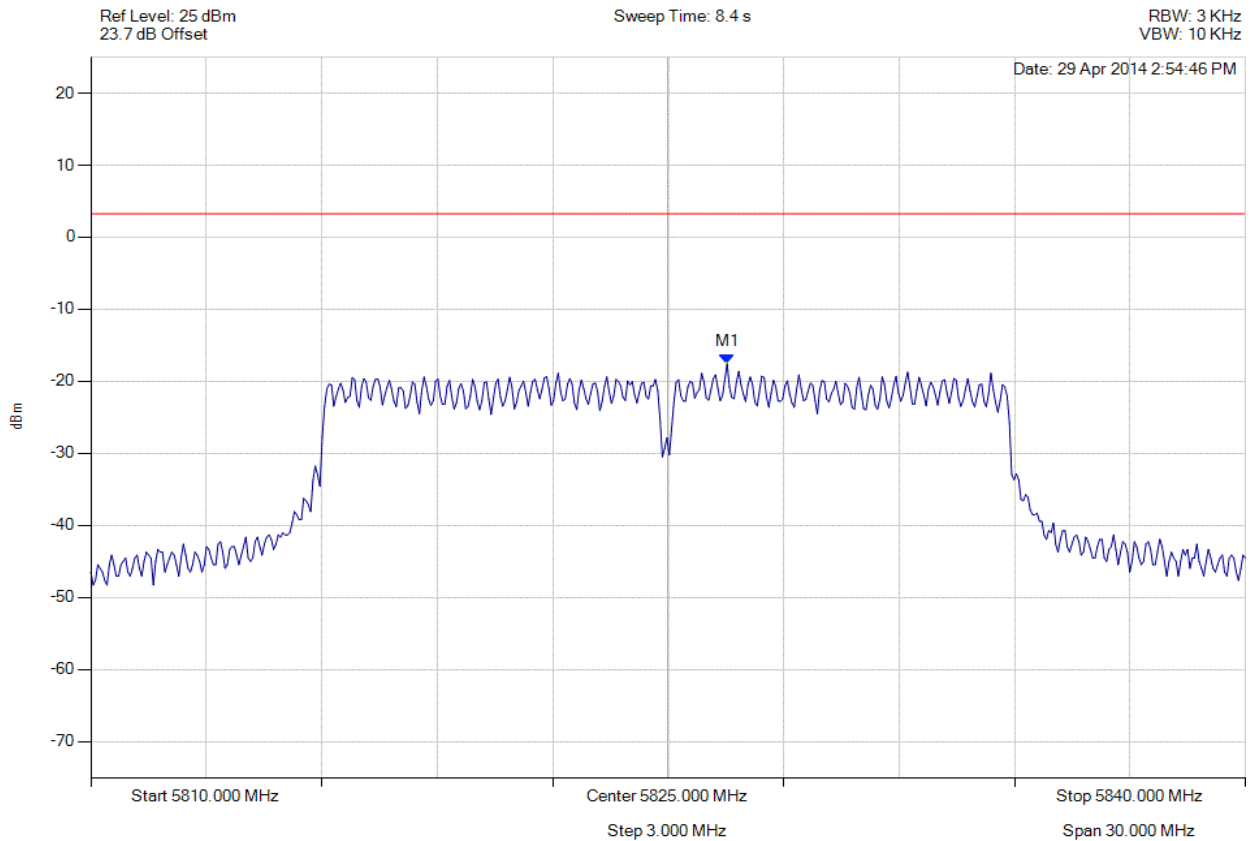


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 220 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5826.533 MHz : -17.559 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

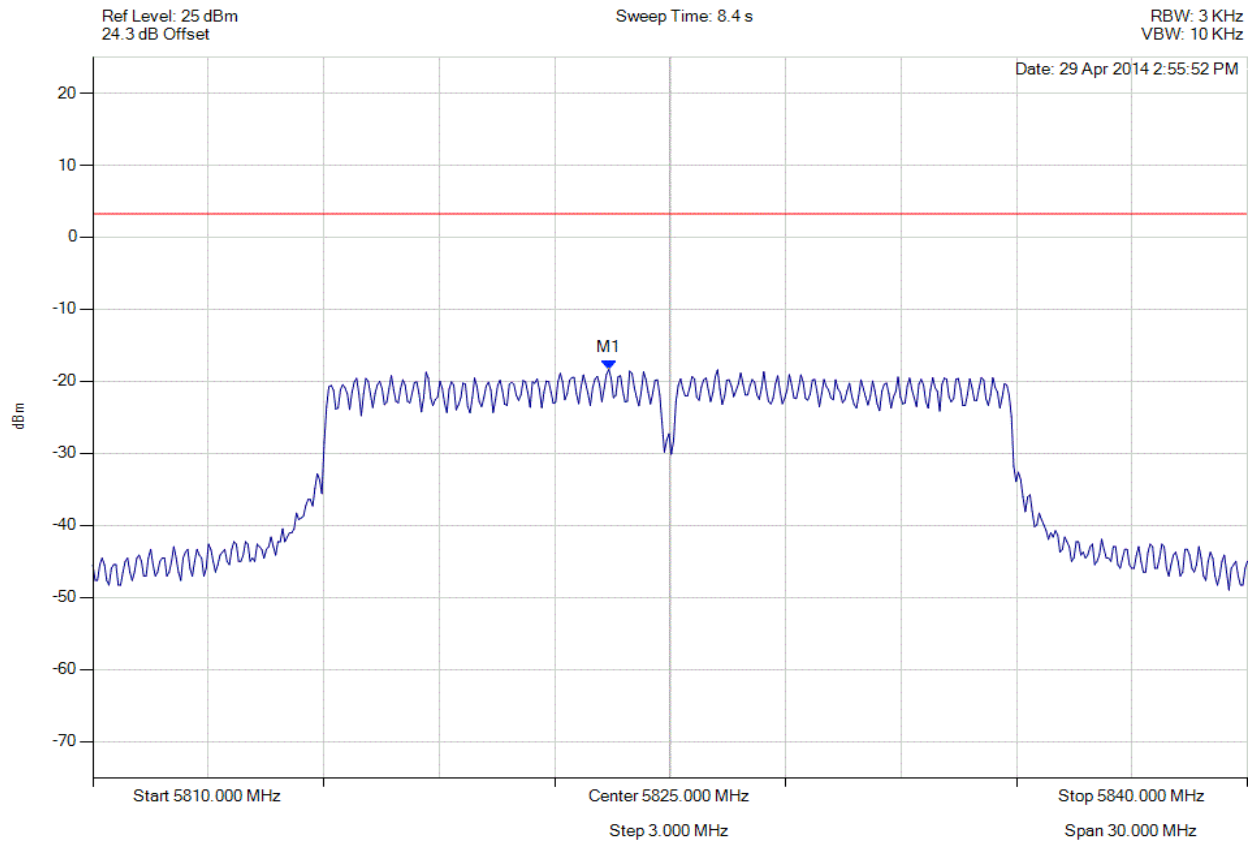


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 221 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5823.407 MHz : -18.352 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

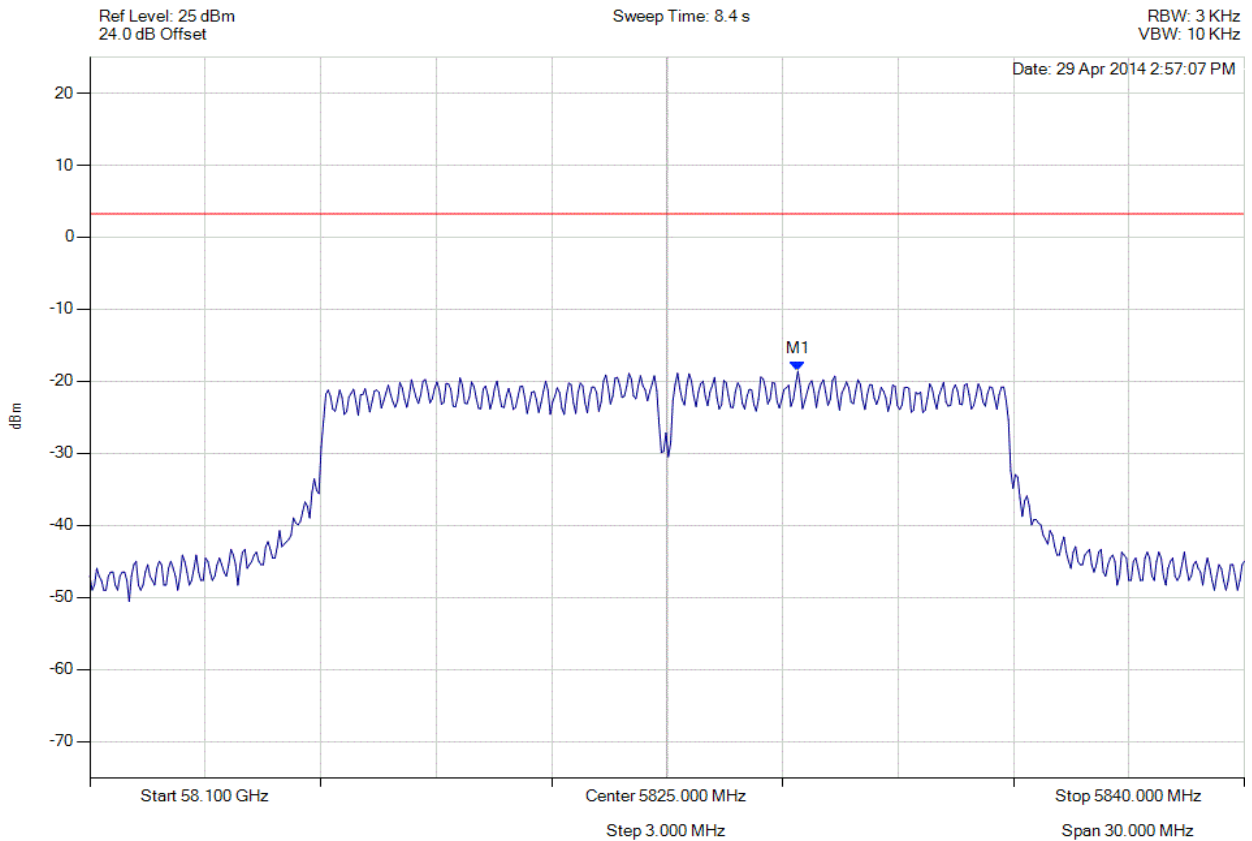


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 222 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5828.397 MHz : -18.611 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

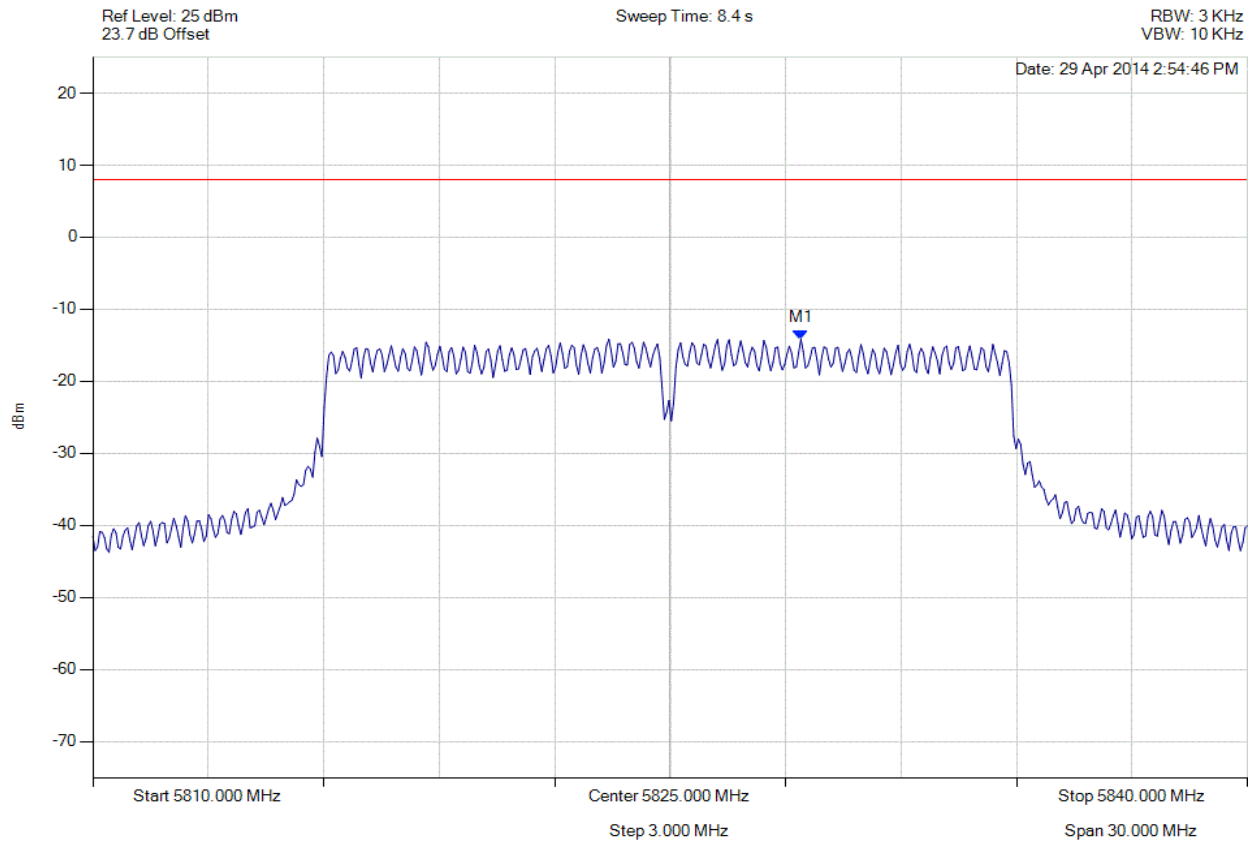


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 223 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-20, Channel: 5825.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5828.400 MHz : -14.172 dBm M1 + DCCF : 5828.400 MHz : -13.927 dBm Duty Cycle Correction Factor : +0.25 dB	Limit: $\leq 8.0$ dBm Margin: -21.9 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

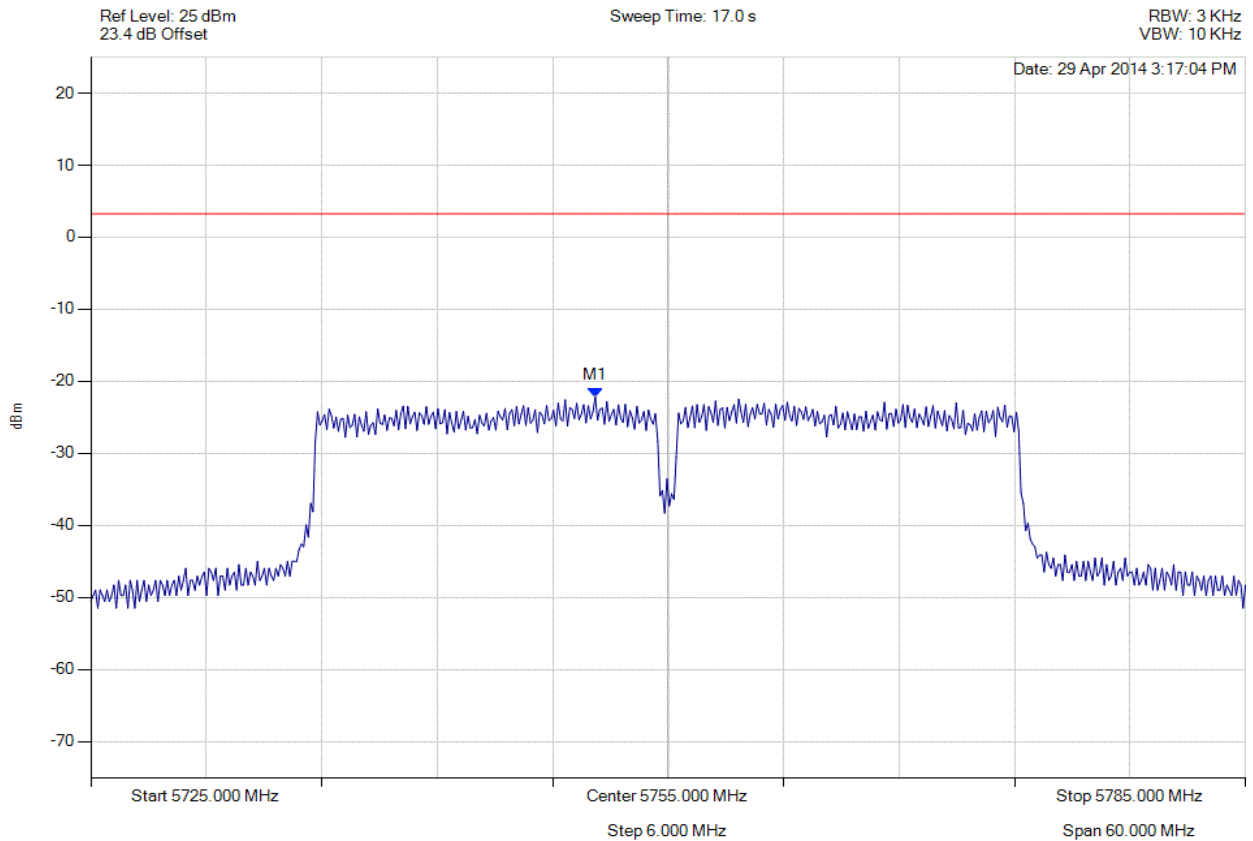


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 224 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.212 MHz : -22.166 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.



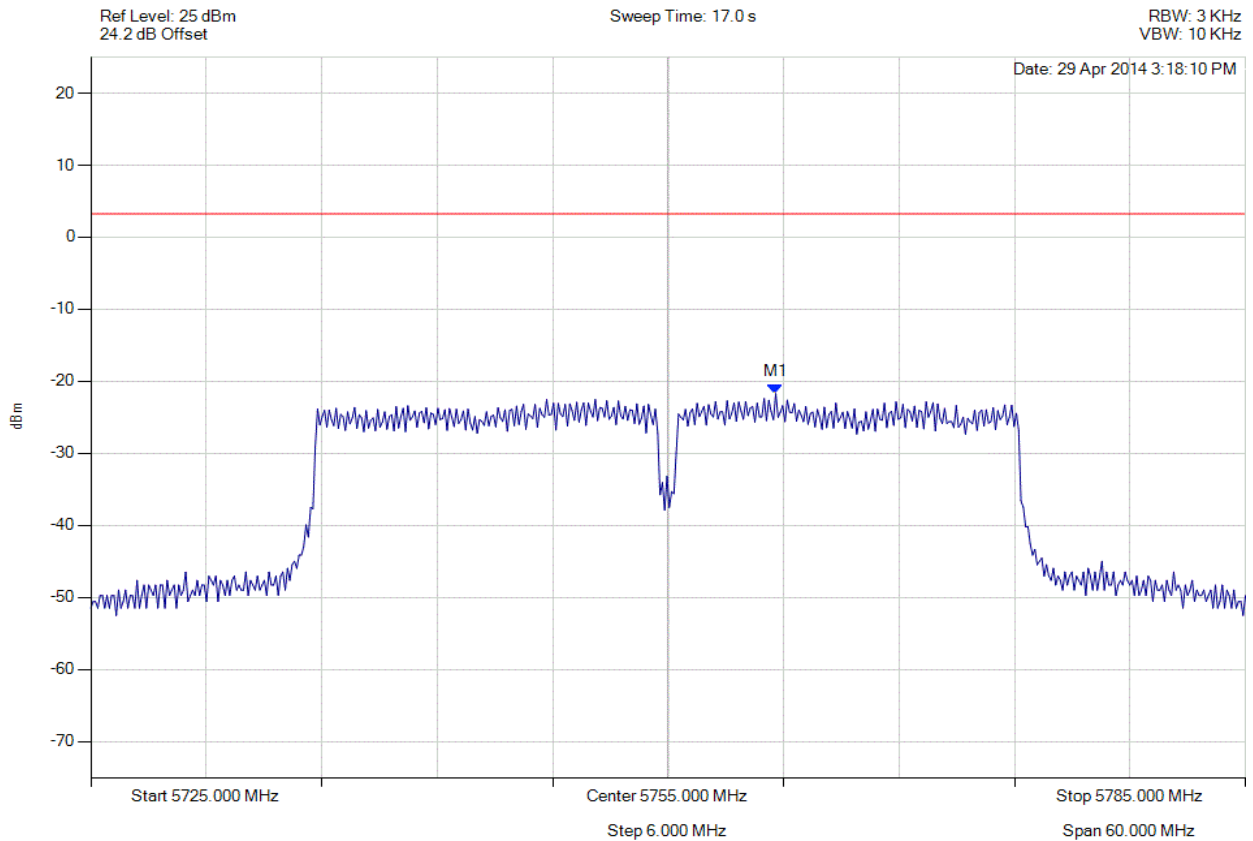


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 225 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5760.591 MHz : -21.716 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

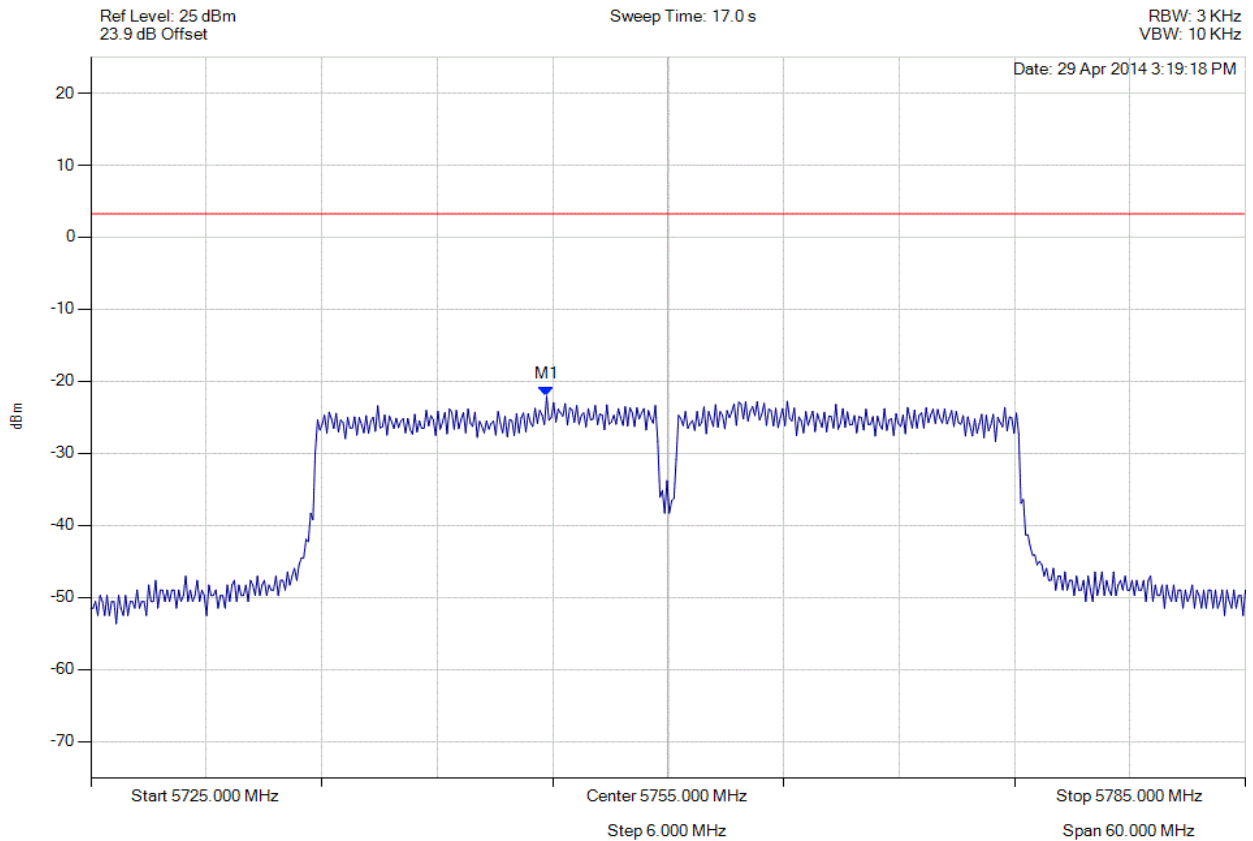


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 226 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.687 MHz : -22.068 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

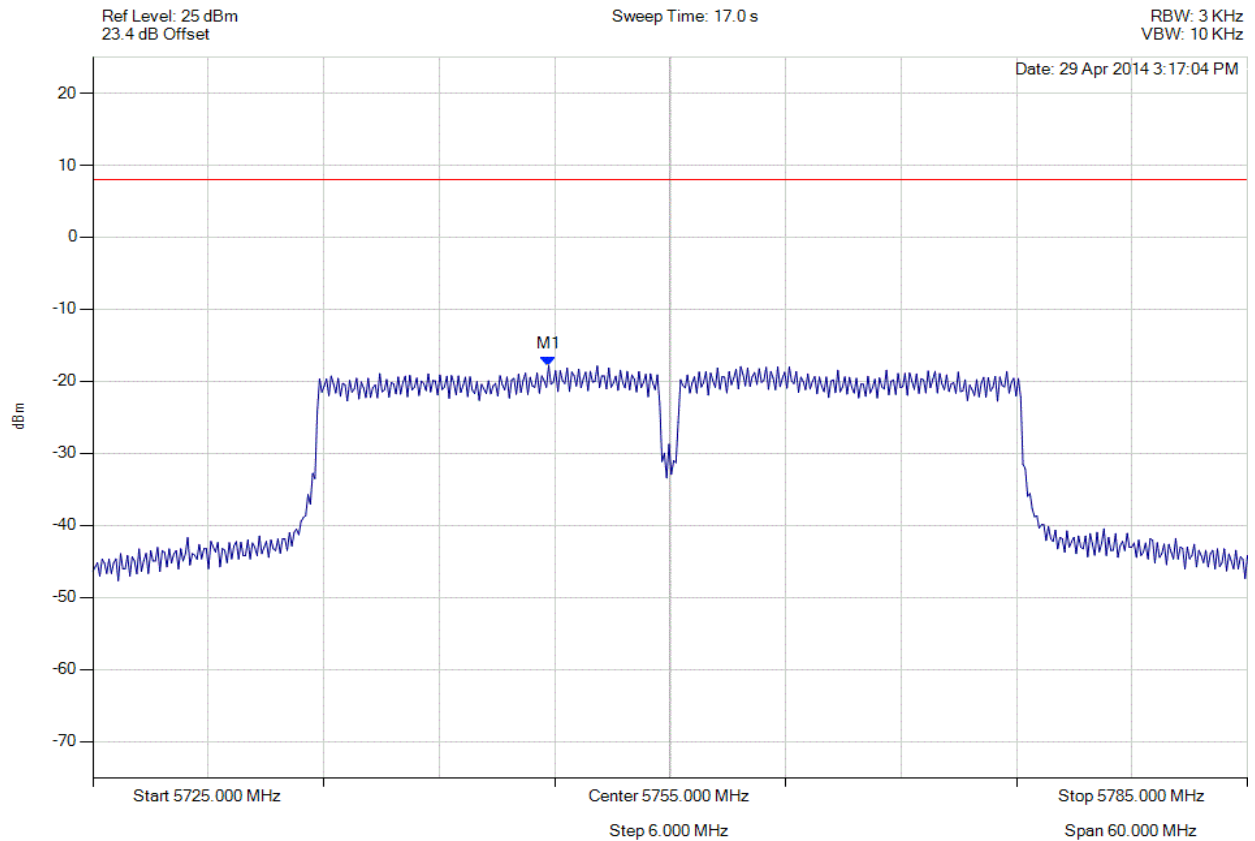


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 227 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5755.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.700 MHz : -17.854 dBm M1 + DCCF : 5748.700 MHz : -17.231 dBm Duty Cycle Correction Factor : +0.62 dB	Limit: $\leq 8.0$ dBm Margin: -25.2 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

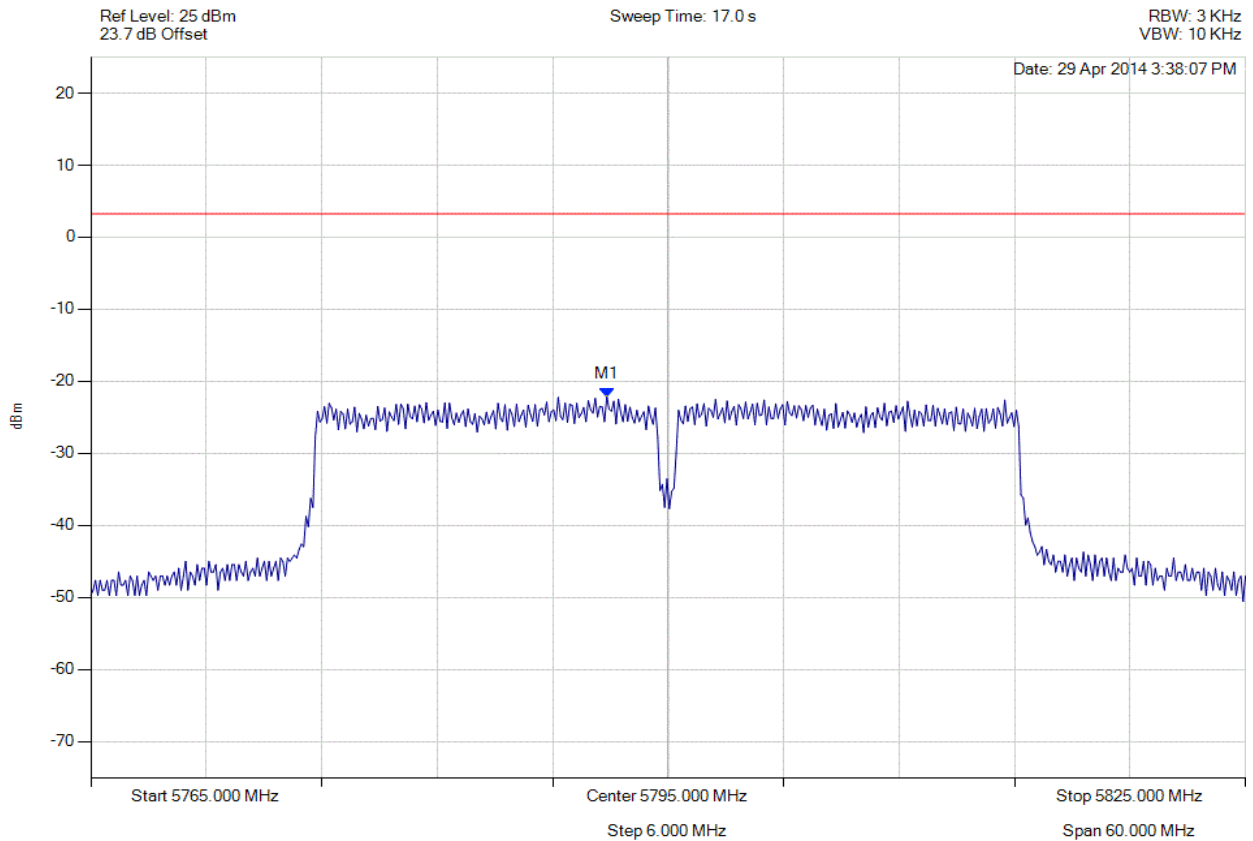


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 228 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.814 MHz : -22.133 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

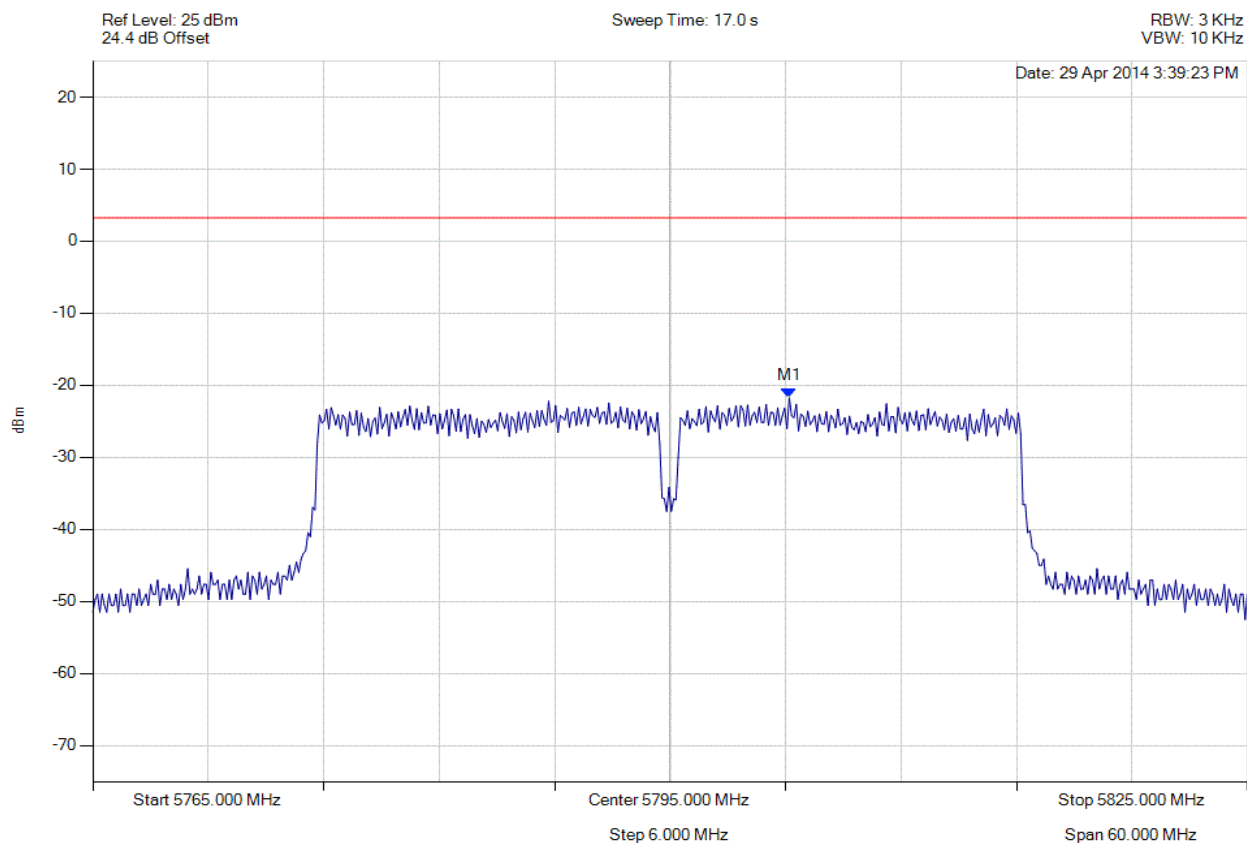


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 229 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5801.192 MHz : -21.747 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

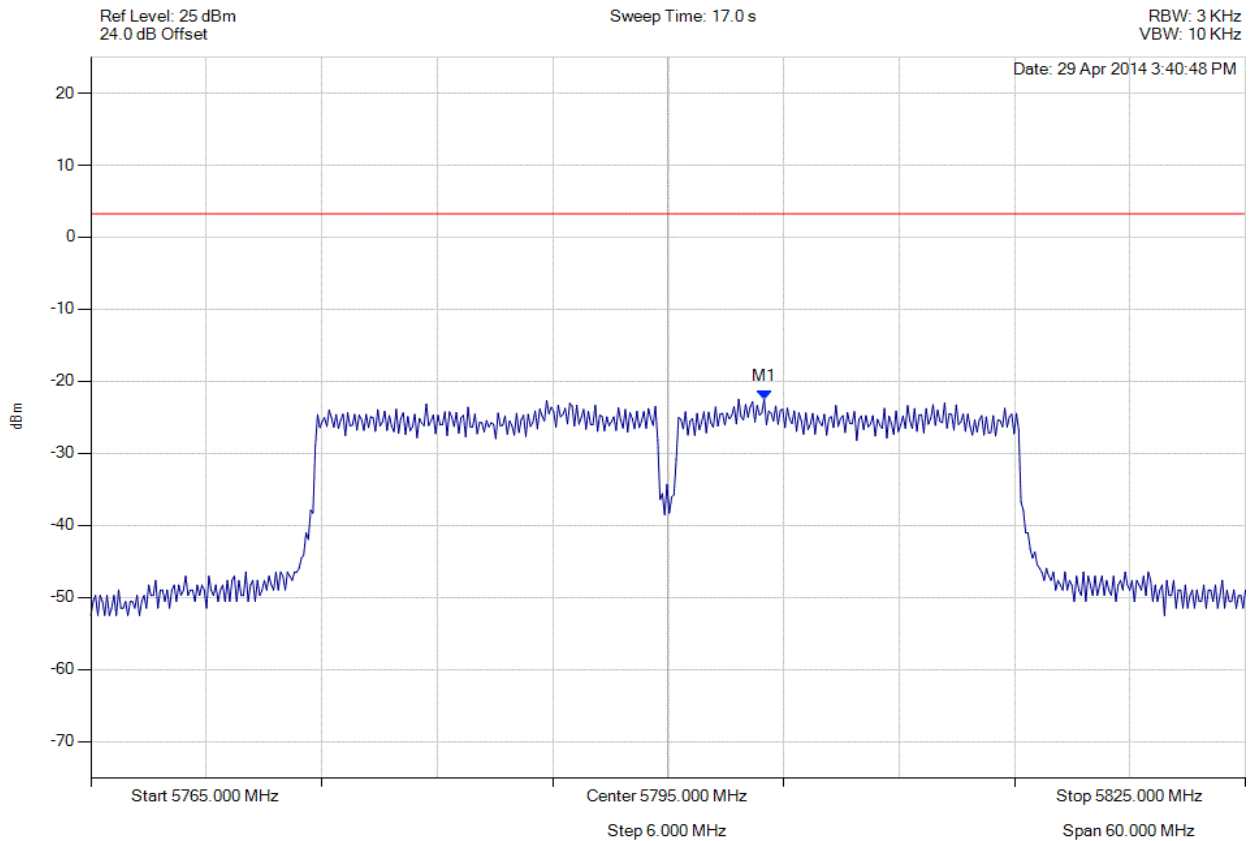


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 230 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain c, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5799.990 MHz : -22.469 dBm	Limit: $\leq 3.229$ dBm

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.

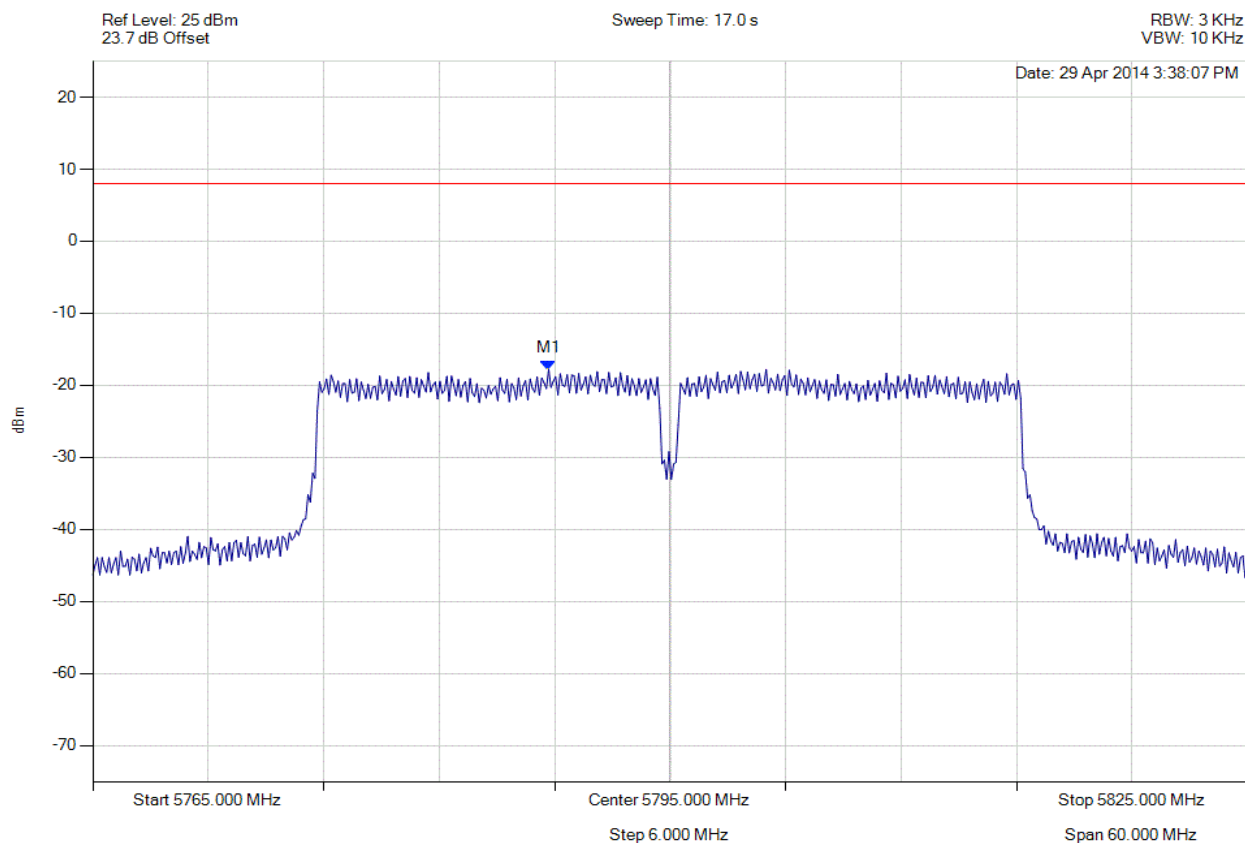


**Title:** Fluke Networks BCM43460  
**To:** FCC 47 CFR Part 15.247 & IC RSS-210  
**Serial #:** FLUK14-U3 Rev B  
**Issue Date:** 6th August 2014  
**Page:** 231 of 448



#### POWER SPECTRAL DENSITY - AVERAGE

Variant: 802.11n HT-40, Channel: 5795.00 MHz, SUM, Temp: Ambient, Voltage: 3.3 Vdc



Analyser Setup	Marker : Frequency : Amplitude	Test Results
Detector = AVERAGE Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5788.700 MHz : -17.807 dBm M1 + DCCF : 5788.700 MHz : -17.184 dBm Duty Cycle Correction Factor : +0.62 dB	Limit: $\leq 8.0$ dBm Margin: -25.2 dB

[Back to the Matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. Any changes will be noted in the Document History section of the report.