

## Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC153955

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# FCC Radio Test Report FCC ID: 2AE6WRP-R1

### **Original Grant**

Report No. : TB-FCC153955

**Applicant**: Shenzhen omimo Technology Co.,Ltd.

**Equipment Under Test (EUT)** 

**EUT Name** : omimo WIFI Repeater

Model No. : RP-R1

Series Model No. : N/A

Brand Name : omimo

**Receipt Date** : 2017-05-18

**Test Date** : 2017-05-19 to 2016-06-08

**Issue Date** : 2017-06-09

Standards : FCC Part 15, Subpart C (15.247:2016)

**Test Method** : ANSI C63.10: 2013

Conclusions : PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer:

Approved&

Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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### 1. General Information about EUT

### 1.1 Client Information

**Applicant**: Shenzhen omimo Technology Co.,Ltd.

Address : Room1212, Chuangjian Building, No.6023, Shennan Boulevard,

Futian District, Shenzhen, China

**Manufacturer**: Shenzhen omimo Technology Co.,Ltd.

Address : Room1212, Chuangjian Building, No.6023, Shennan Boulevard,

Futian District, Shenzhen, China

### 1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	omimo WIFI Repeate	er				
Models No.	e	RP-R1	.P-R1				
Model Difference	:	: N/A					
	M	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz				
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)				
TODY OF		RF Output Power:	802.11b: 14.54 dBm 802.11g: 14.64 dBm 802.11n (HT20): 14.33 dBm 802.11n (HT40): 14.41 dBm				
Product Description		Antenna Gain: Modulation Type:	1 dBi PCB Antenna 802.11b: DSSS(BPSK, QPSK, CCK)				
		(1081)	802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)				
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n(HT20):14.44/28.88/43.34/57.78/86.66/115.56 /130/144.44Mbps 802.11n(HT40):30/60/90/120/180/240/270/300Mbps				
<b>Power Supply</b>	:	DC 5V supplied by A	C/DC Adapter.				
Power Rating	:	Input: AC 100~240V, 50/60Hz Output: DC 5V					
Connecting I/O Port(S)		Please refer to the Us	ser's Manual				

#### Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04 and KDB 662911 D01 Multiple Transmitter



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### Output v02r01.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### (3) Channel List:

\ /					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

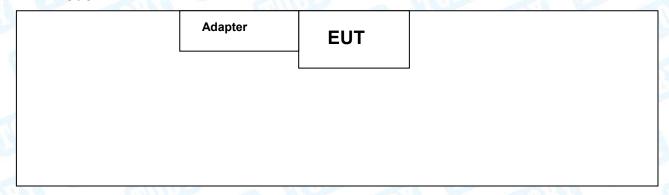
Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)

### (4) Antenna information

Mode		TX Antenna (s)		Remark
802.1	1b	10	The worst case is ANT. a TX	
802.11g		111	The worst case is ANT. a T	
802.11n(	HT20)	2	ANT. a+b TX	
802.11n(HT40)		2 ANT. a+b T		ANT. a+b TX
Antenna	Brand	Model Name	Туре	Antenna Gain(dBi)
ANT. a	N/A	N/A	PCB	
ANT. b N/A		N/A	PCB	1

### 1.3 Block Diagram Showing the Configuration of System Tested

### **TX Mode**





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### 1.4 Description of Support Units

Equipment Information							
Name	Model	S/N	Manufacturer	Used "√"			
AC/DC Adapter	TEKA012		TEKA	√			
AC/DC Adapter:	AC/DC Adapter: Input:100~240V, 50/60Hz, 0.2A. Output: 5V, 1A						

### 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test					
Final Test Mode	Description				
Mode 1	TX B Mode				

For Radiated Test				
Final Test Mode Description				
Mode 2 TX Mode B Mode Channel 01/06/11				
Mode 3 TX Mode G Mode Channel 01/06/11				
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11			
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09			

#### Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps) 802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (14.4 Mbps) 802.11n (HT40) Mode: MCS 0 (30 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a fixed unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



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### 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

	Test Software:N/A  Test Mode: Continuously transmitting					
Mode	Data Rate	Channel	Parameters			
Wode	Dala Kale	Chainlei	ANT a	ANT b		
	CCK/ 1Mbps	01	DEF	DEF		
802.11b	CCK/ 1Mbps	06	DEF	DEF		
	CCK/ 1Mbps	11	DEF	DEF		
	OFDM/ 6Mbps	01	DEF	DEF		
802.11g	OFDM/ 6Mbps	06	DEF	DEF		
TIM	OFDM/ 6Mbps	11	DEF	DEF		
	MCS 0	01	DEF	DEF		
802.11n(20)	MCS 0	06	DEF	DEF		
	MCS 0	11	DEF	DEF		
2	MCS 0	03	DEF	DEF		
802.11n(40)	MCS 0	06	DEF	DEF		
	MCS 0	09	DEF	DEF		

Note: TX signal at 802.11b/g mode only could transmit at Ant.a or Ant. b. All the test mode have pretest with two Antenna, but the worst case is Ant. a. The report only show the worst case.



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### 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

### 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

#### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

#### IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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# 2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1					
	rd Section	Test Item	Judgment	Remark	
FCC	IC				
15.203	/	Antenna Requirement	PASS	N/A	
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A	
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A	
4F 247(a)(2)	RSS 247	6dB Bandwidth	PASS	N/A	
15.247(a)(2)	5.2 (1)				
15.247(b)	RSS 247	Peak Output Power	PASS	N/A	
13.247(0)	5.4 (4)	Feak Output Fower			
15.247(e)	RSS 247	Dawer Chartral Danaity	PASS	N/A	
13.247 (6)	5.2 (2)	Power Spectral Density			
15.247(d)	RSS 247	Pand Edga	PASS	NI/A	
13.247 (U)	5.5	Band Edge	FASS	N/A	
15.247(d)&	RSS 247	Transmitter Radiated Spurious	PASS	N/A	
15.209	5.5	Emission		IN/A	

Note: "/" for no requirement for this test item.

N/A is an abbreviation for Not Applicable.



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# 3. Test Equipment

Conducted	d Emission Te	st			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 24, 2017	Mar. 23, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 25, 2017	Mar. 24, 2018
Pre-amplifier	Sonoma	310N	185903	Mar. 24, 2017	Mar. 23, 2018
Pre-amplifier	HP	8447B	3008A00849	Mar. 24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar. 29, 2017	Mar. 28, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 29, 2017	Mar. 28, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	onducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



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### 4. Conducted Emission Test

### 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

### 4.1.2 Test Limit

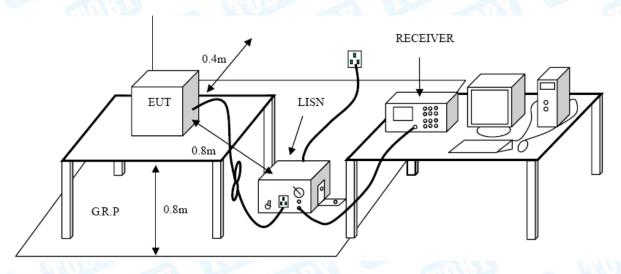
#### **Conducted Emission Test Limit**

Eroguanov	Maximum RF Lin	Maximum RF Line Voltage (dBμV)				
Frequency	Quasi-peak Level	Average Level				
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

#### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2 Test Setup



### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



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I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

### 4.4 EUT Operating Mode

Please refer to the description of test mode.

### 4.5 Test Data

Please see the next page.





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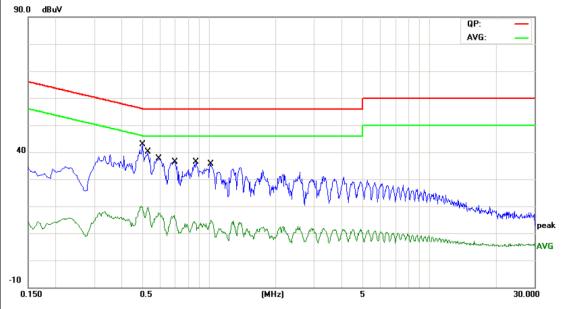
UT:	omim				ne :	RP-R	RP-R1		
emperature:	<b>25</b> °C				55%				
est Voltage:	AC 1	20V/60 Hz							
Terminal:	Line	The same of	a V	A Section	1	Time			
Test Mode:	TX B	Mode	132			A Alle			
Remark:	Only	worse case	is reported		6	MBE	0		
90.0 dBuV									
						QP: AVG:			
40									
Lanky de	۸» ۸ »	* * .	×						
W	J. Marilland D.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Andriana and a	and teachers are					
		, 1, A	A salas sallita alba a	Mak didan An	halleralphanelyperteader	Markethelicher	Marshipherenandry		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	way V	Munday	Mayne, My M		^^~~~		pea		
		Y 10	, "d. A	~ 4 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10000000	Market Market State of the Stat	AV		
10									
0.150	0.5		(MHz)	5			30.000		
		Reading	Correct	Measure-					
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
No. Mk.	Freq.	_				Over dB	Detector		
		Level	Factor	ment	<b>Limit</b> dBu∀		Detector QP		
1 0	MHz	<b>Level</b> dBu∨	Factor dB	ment dBuV	dBuV 62.45	dB	QP		
1 0 2 0	MHz .2300	dBuV 16.20	dB 10.02	ment dBuV 26.22	dBuV 62.45 52.45	dB -36.23	QP		
1 0 2 0 3 0	MHz .2300 .2300	dBuV 16.20 3.72	factor dB 10.02 10.02	ment dBuV 26.22 13.74	dBuV 62.45 52.45 59.06	dB -36.23 -38.71	QP AVG QP		
1 0 2 0 3 0 4 0	MHz .2300 .2300 .3460 .3460	16.20 3.72 16.79 4.06	Factor  dB  10.02  10.02  10.02  10.02	ment dBuV 26.22 13.74 26.81 14.08	dBuV 62.45 52.45 59.06 49.06	dB -36.23 -38.71 -32.25 -34.98	QP AVG QP AVG		
1 0 2 0 3 0 4 0 5 * 0	MHz .2300 .2300 .3460 .3460 .5140	dBuV 16.20 3.72 16.79 4.06 18.40	Factor  dB  10.02  10.02  10.02  10.02  10.03	ment dBuV 26.22 13.74 26.81 14.08 28.43	dBuV 62.45 52.45 59.06 49.06 56.00	dB -36.23 -38.71 -32.25 -34.98 -27.57	QP AVG QP AVG QP		
1 0 2 0 3 0 4 0 5 * 0 6 0	MHz .2300 .2300 .3460 .3460 .5140	16.20 3.72 16.79 4.06 18.40 4.27	Factor  dB  10.02  10.02  10.02  10.02  10.03  10.03	ment dBuV 26.22 13.74 26.81 14.08 28.43 14.30	Limit  dBuV  62.45  52.45  59.06  49.06  56.00  46.00	dB -36.23 -38.71 -32.25 -34.98 -27.57 -31.70	QP AVG QP AVG QP AVG		
1 0 2 0 3 0 4 0 5 * 0 6 0 7 0	MHz .2300 .2300 .3460 .3460 .5140 .5140	Level  dBuV  16.20  3.72  16.79  4.06  18.40  4.27  14.07	Factor  dB  10.02  10.02  10.02  10.02  10.03  10.03  10.12	ment dBuV 26.22 13.74 26.81 14.08 28.43 14.30 24.19	bimit dBuV 62.45 52.45 59.06 49.06 56.00 56.00	dB -36.23 -38.71 -32.25 -34.98 -27.57 -31.70 -31.81	QP AVG QP AVG QP AVG		
1 0 2 0 3 0 4 0 5 * 0 6 0 7 0 8 0	MHz .2300 .2300 .3460 .3460 .5140 .5140 .6940	Level  dBuV  16.20  3.72  16.79  4.06  18.40  4.27  14.07  2.60	Factor  dB  10.02  10.02  10.02  10.02  10.03  10.03  10.12  10.12	ment dBuV 26.22 13.74 26.81 14.08 28.43 14.30 24.19 12.72	Limit  dBuV  62.45  52.45  59.06  49.06  56.00  46.00  46.00	dB -36.23 -38.71 -32.25 -34.98 -27.57 -31.70 -31.81 -33.28	QP AVG QP AVG QP AVG AVG		
1 0 2 0 3 0 4 0 5 * 0 6 0 7 0 8 0 9 0	MHz .2300 .2300 .3460 .3460 .5140 .5140 .6940 .6940	Level  dBuV  16.20  3.72  16.79  4.06  18.40  4.27  14.07  2.60  12.50	Factor  dB  10.02  10.02  10.02  10.02  10.03  10.03  10.12  10.12  10.08	ment dBuV 26.22 13.74 26.81 14.08 28.43 14.30 24.19 12.72 22.58	Limit  dBuV  62.45  52.45  59.06  49.06  56.00  46.00  56.00  56.00	dB -36.23 -38.71 -32.25 -34.98 -27.57 -31.70 -31.81 -33.28 -33.42	QP AVG QP AVG QP AVG QP AVG		
1 0 2 0 3 0 4 0 5 * 0 6 0 7 0 8 0 9 0	MHz .2300 .2300 .3460 .3460 .5140 .5140 .6940 .8820	Level  dBuV  16.20  3.72  16.79  4.06  18.40  4.27  14.07  2.60  12.50  -0.67	Factor  dB  10.02  10.02  10.02  10.03  10.03  10.12  10.08  10.08	ment  dBuV  26.22  13.74  26.81  14.08  28.43  14.30  24.19  12.72  22.58  9.41	Limit  dBuV  62.45  52.45  59.06  49.06  56.00  46.00  56.00  46.00  46.00	dB -36.23 -38.71 -32.25 -34.98 -27.57 -31.70 -31.81 -33.28 -33.42 -36.59	QP AVG QP AVG QP AVG QP AVG AVG		
1 0 2 0 3 0 4 0 5 * 0 6 0 7 0 8 0 9 0 10 0	MHz .2300 .2300 .3460 .3460 .5140 .5140 .6940 .6940	Level  dBuV  16.20  3.72  16.79  4.06  18.40  4.27  14.07  2.60  12.50	Factor  dB  10.02  10.02  10.02  10.02  10.03  10.03  10.12  10.12  10.08	ment dBuV 26.22 13.74 26.81 14.08 28.43 14.30 24.19 12.72 22.58	Limit  dBuV  62.45  52.45  59.06  49.06  56.00  46.00  56.00  46.00  56.00	dB -36.23 -38.71 -32.25 -34.98 -27.57 -31.70 -31.81 -33.28 -33.42	QP AVG QP AVG QP AVG QP AVG		





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EUT:	omimo WIFI Repeater	Model Name :	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	1000	Will Description
Terminal:	Neutral	W. T.	100
Test Mode:	TX B Mode	THE PERSON NAMED IN	THE RESERVE
Remark:	Only worse case is reported	d	IIII is a
90.0 dBuV			
			QP: — AVG: —



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∀	dB	dBuV	dBu∀	dB	Detector
1 *	0.4980	24.43	10.02	34.45	56.03	-21.58	QP
2	0.4980	8.45	10.02	18.47	46.03	-27.56	AVG
3	0.5260	24.35	10.02	34.37	56.00	-21.63	QP
4	0.5260	9.16	10.02	19.18	46.00	-26.82	AVG
5	0.5899	21.36	10.02	31.38	56.00	-24.62	QP
6	0.5899	6.49	10.02	16.51	46.00	-29.49	AVG
7	0.6980	18.91	10.02	28.93	56.00	-27.07	QP
8	0.6980	4.52	10.02	14.54	46.00	-31.46	AVG
9	0.8700	18.20	10.10	28.30	56.00	-27.70	QP
10	0.8700	2.67	10.10	12.77	46.00	-33.23	AVG
11	1.0140	17.52	10.16	27.68	56.00	-28.32	QP
12	1.0140	3.48	10.16	13.64	46.00	-32.36	AVG





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EUT:	omi	mo WIFI Rep	eater	Model Name	:	RP-R1	1
Temperature	25	$^{\circ}$	11173	Relative Hum	idity:	55%	A L
Test Voltage	: AC	240V/60 Hz	all the same of			CHILD:	12-10
Terminal:	Line	Mark Control	A V	A STATE OF THE PARTY OF THE PAR		1	The state of
Test Mode:	TXI	B Mode	1323		11100		A Property
Remark:	Only	y worse case	is reported			MR	
90.0 dBuV							
						QP: AVG:	
	-						
40		v x					
mm	$\Lambda_{\wedge} \Lambda_{\wedge} \Lambda_{\wedge}$	LILLE LA NA	w. JW				
	N A A.	Alamah Mahala	NAMES AND AND PROPERTY OF THE PROPERTY OF	M $M$ $M$ $M$ $M$	MMM	MANAGE	
, anh	MAN	o A A				A	Haran Marina Des
my of	y A AA		Now Charach	$\bigvee \bigvee \bigvee \bigvee$	Marana	and the state of the same of t	AV
-10	0.5		(MU-)	5			20,000
0.150	0.5		(MHz)	5			30.000
0.150		Reading	Correct	Measure-	Limit	Over	30.000
	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
0.150 No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	dBuV	dB	Detector
0.150 No. Mk.	Freq.	Reading Level dBuV 19.42	Correct Factor	Measure- ment	dBuV		
0.150 No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	dBu∨ 59.25	dB	Detector
0.150 No. Mk.	Freq. MHz 0.3379	Reading Level dBuV 19.42	Correct Factor dB	Measure- ment dBuV 29.44	dBuV 59.25	dB -29.81 -33.63	Detector
0.150 No. Mk.	Freq. MHz 0.3379 0.3379	Reading Level dBuV 19.42 5.60	Correct Factor dB 10.02	Measure- ment dBuV 29.44 15.62	dBu√ 59.25 49.25 57.57	dB -29.81 -33.63	QP AV0
0.150  No. Mk.  1 2 3	Freq. MHz 0.3379 0.3379 0.4140	Reading Level dBuV 19.42 5.60 19.72	Correct Factor dB 10.02 10.02	Measure- ment dBuV 29.44 15.62 29.74	dBuV 59.25 49.25 57.57 47.57	dB -29.81 -33.63 -27.83	QP AV0
0.150  No. Mk.  1 2 3 4	Freq. MHz 0.3379 0.3379 0.4140 0.4140	Reading Level dBuV 19.42 5.60 19.72 6.14	Correct Factor dB 10.02 10.02 10.02	Measure- ment  dBuV  29.44  15.62  29.74  16.16	dBuV 59.25 49.25 57.57 47.57 56.00	dB -29.81 -33.63 -27.83 -31.41	QP AVO QP AVO
0.150  No. Mk.  1 2 3 4 5 * 6	Freq. MHz 0.3379 0.3379 0.4140 0.4140 0.5260 0.5260	Reading Level dBuV 19.42 5.60 19.72 6.14 20.58 7.23	Correct Factor dB 10.02 10.02 10.02 10.03 10.03	Measure- ment  dBuV  29.44  15.62  29.74  16.16  30.61  17.26	dBuV 59.25 49.25 57.57 47.57 56.00 46.00	dB -29.81 -33.63 -27.83 -31.41 -25.39 -28.74	Detector QP AVC QP AVC
0.150  No. Mk.  1 2 3 4 5 * 6 7	Freq. MHz 0.3379 0.3379 0.4140 0.4140 0.5260 0.5260 0.7220	Reading Level dBuV 19.42 5.60 19.72 6.14 20.58 7.23 16.21	Correct Factor  dB  10.02  10.02  10.02  10.03  10.03  10.12	Measure- ment  dBuV  29.44  15.62  29.74  16.16  30.61  17.26  26.33	dBuV 59.25 49.25 57.57 47.57 56.00 46.00 56.00	dB -29.81 -33.63 -27.83 -31.41 -25.39 -28.74 -29.67	QP AVO QP AVO QP AVO
0.150  No. Mk.  1 2 3 4 5 * 6 7 8	Freq. MHz 0.3379 0.3379 0.4140 0.4140 0.5260 0.5260 0.7220 0.7220	Reading Level dBuV 19.42 5.60 19.72 6.14 20.58 7.23 16.21 1.39	Correct Factor  dB  10.02  10.02  10.02  10.03  10.03  10.12  10.12	Measure- ment  dBuV  29.44  15.62  29.74  16.16  30.61  17.26  26.33  11.51	dBuV 59.25 49.25 57.57 47.57 56.00 46.00 46.00	dB -29.81 -33.63 -27.83 -31.41 -25.39 -28.74 -29.67 -34.49	QP AVG QP AVG QP AVG
0.150  No. Mk.  1 2 3 4 5 * 6 7 8 9	Freq. MHz 0.3379 0.3379 0.4140 0.4140 0.5260 0.7220 0.7220 0.9220	Reading Level dBuV 19.42 5.60 19.72 6.14 20.58 7.23 16.21 1.39 17.88	Correct Factor dB 10.02 10.02 10.02 10.03 10.03 10.12 10.12 10.08	Measure-ment  dBuV  29.44  15.62  29.74  16.16  30.61  17.26  26.33  11.51  27.96	dBuV 59.25 49.25 57.57 47.57 56.00 46.00 56.00 56.00	dB -29.81 -33.63 -27.83 -31.41 -25.39 -28.74 -29.67 -34.49 -28.04	QP AVO QP AVO QP AVO QP
0.150  No. Mk.  1 2 3 4 5 * 6 7 8 9 10	Freq. MHz 0.3379 0.3379 0.4140 0.4140 0.5260 0.7220 0.7220 0.9220 0.9220	Reading Level dBuV 19.42 5.60 19.72 6.14 20.58 7.23 16.21 1.39 17.88 4.33	Correct Factor dB 10.02 10.02 10.02 10.03 10.12 10.12 10.08 10.08	Measure-ment  dBuV  29.44  15.62  29.74  16.16  30.61  17.26  26.33  11.51  27.96  14.41	dBuV 59.25 49.25 57.57 47.57 56.00 46.00 56.00 46.00 46.00	dB -29.81 -33.63 -27.83 -31.41 -25.39 -28.74 -29.67 -34.49 -28.04 -31.59	QP AVO QP AVO QP AVO QP AVO
0.150  No. Mk.  1 2 3 4 5 * 6 7 8 9	Freq. MHz 0.3379 0.3379 0.4140 0.4140 0.5260 0.5260 0.7220 0.7220 0.9220	Reading Level dBuV 19.42 5.60 19.72 6.14 20.58 7.23 16.21 1.39 17.88	Correct Factor dB 10.02 10.02 10.02 10.03 10.03 10.12 10.12 10.08	Measure-ment  dBuV  29.44  15.62  29.74  16.16  30.61  17.26  26.33  11.51  27.96	dBuV 59.25 49.25 57.57 47.57 56.00 46.00 56.00 46.00 46.00	dB -29.81 -33.63 -27.83 -31.41 -25.39 -28.74 -29.67 -34.49 -28.04	QP AVO QP AVO QP AVO QP



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EUT:	omimo WIFI Repeater	Model Name :	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		WIII 10 25
Terminal:	Neutral	The same of the sa	
Test Mode:	TX B Mode		
Remark:	Only worse case is repo	orted	
90.0 dBuV			
			QP: — AVG: —
40 X	Ž Ž ~ , Ř Ž		
40	Mana	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
40 X	Mymm	V/\/\/\	May appropriate the second of
40 X	Managan Managa	W/////////////////////////////////////	
40 X	My	VVVVVV	pea
40 X	M~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	pea
40 X	My my My my m	WW	pea

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1		0.3339	24.50	10.08	34.58	59.35	-24.77	QP
2		0.3339	7.73	10.08	17.81	49.35	-31.54	AVG
3		0.4180	25.38	10.05	35.43	57.49	-22.06	QP
4		0.4180	8.65	10.05	18.70	47.49	-28.79	AVG
5	*	0.5340	26.40	10.02	36.42	56.00	-19.58	QP
6		0.5340	9.60	10.02	19.62	46.00	-26.38	AVG
7		0.9220	23.03	10.12	33.15	56.00	-22.85	QP
8		0.9220	6.35	10.12	16.47	46.00	-29.53	AVG
9		1.0220	23.01	10.16	33.17	56.00	-22.83	QP
10		1.0220	6.06	10.16	16.22	46.00	-29.78	AVG
11		1.6820	19.06	10.09	29.15	56.00	-26.85	QP
12		1.6820	3.53	10.09	13.62	46.00	-32.38	AVG

**Emission Level= Read Level+ Correct Factor** 



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### 5. Radiated Emission Test

### 5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

### Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### Radiated Emission Limit (Above 1000MHz)

Eroquoney	Distance Met	ers (at 3m)
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

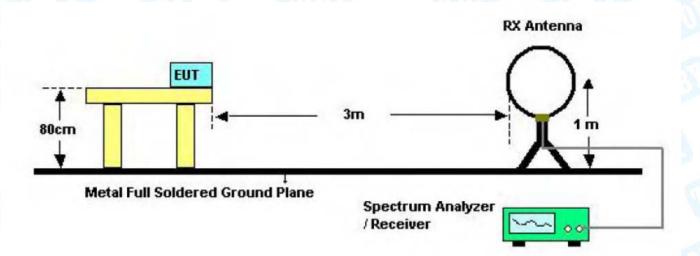
### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level(uV/m)

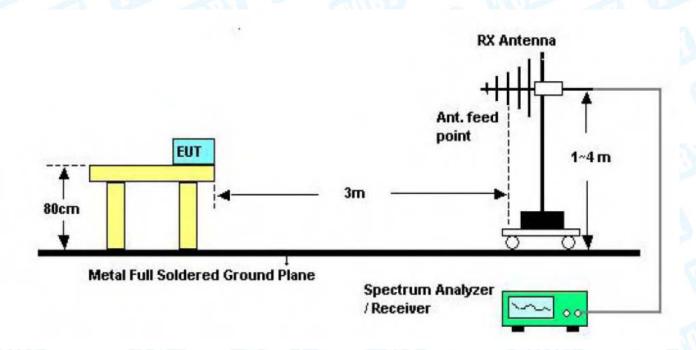


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### 5.2 Test Setup



Below 30MHz Test Setup

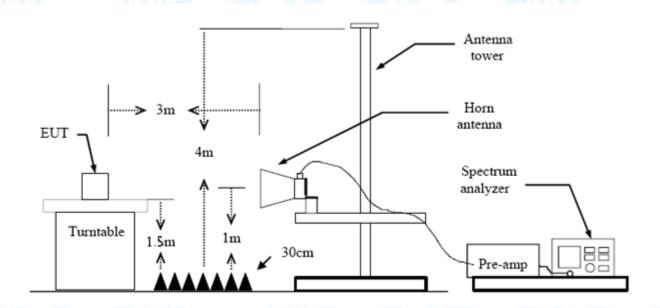


Below 1000MHz Test Setup









Above 1GHz Test Setup

#### 5.3 Test Procedure

- (1) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

### 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.



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### 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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### 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 30MHz~1GHz

Temp Test \			omi	mo \	NIFI	Repe	ater	Mode	el:		I	RP-R	1	11	
Test \	eratu	ıre:	25	°C Relative Humidity:				y: (	55%	N.B					
	Volta	ge:	AC	120	V/60	Hz		11/10						A	S
Ant. I	Pol.		Horizontal							3					
Test l	Mode	):	TX B Mode 2412MHz												
Rema	ark:		Onl	y wc	rse	case is	s reporte	ed		-	AM				
80.0	dBuV/n	n													_
-20	1	application of the same	ween of the base of	anning territor	, , , , , , , , , , , , , , , , , , ,	spiret that have \	graph of the state of the	sayahan aykun da	2 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3 4 X	Ę.	i K	A Radiati	-6 dB	
30.0	100 4	40 5	50 60	70	80		(MH	z)	3	300	400	500	600 700	) 100	00.00
No	o. Mk	c. 1	Freq.	ı	Rea Le	ding vel	Corre Facto		easure ment		imit	C	ver		
			MHz		dB	u∨	dB/m	-	dBuV/m	d	BuV/m	1	dB	Dete	ecto
1		34	.0365	5	27.	.06	-16.63	3	10.43	4	0.00	-2	29.57	Q	Ρ
2		282	2.9852	2	42.	.90	-16.99	9	25.91	4	6.00	-2	20.09	QI	Р
3		326	5.739	5	42.	.34	-15.59	9	26.75	4	6.00	-′	19.25	Q	Р
4	*	352	2.943	3	43.	.58	-14.14	4	29.44	4	6.00		16.56	QI	Р
5		480	0.527	6	39.	.09	-11.13	3	27.96	4	6.00		18.04		
		872	2.183	2	33	.12	-4.71		28.41		6.00		17.59	QI	P



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UT:	omimo W	IFI Repeater	Model:	RP-R1	Ś
emperature:	25 ℃	: 55%	ŧ.		
est Voltage:	AC 120V/	60 Hz	and the same	- MIDE	
nt. Pol.	Vertical		The state of the s		
est Mode:	TX B Mod	de 2412MHz			
lemark:	Only wors	se case is repor	rted		
80.0 dBuV/m					_
				(RF)FCC 15C 3M Radiation	
				Margin -6 dB	
					-
30		_			
			6		
			5 mm	to a sub- Broker duy water	4
1 X	2 X	<u> </u>	3 *	Harley properties and the second	*
Mary Mary Mary Mary Mary Mary Mary Mary	2 X	in a second	3 5 MANY MANY MANY MANY MANY MANY MANY MANY	Marie a para di maria negati di mana di	<u>*</u>
Mary Mary Mary Mary Mary Mary Mary Mary	my market	Mary Mary Mary Mary Mary Mary Mary Mary	ž <sub>uro</sub>	William por house and the contract of the cont	<u>*</u>
Many Market Company Market Mar	an and the second	bh Maria Mar	3 TANK MANAGEMENT AND THE SECOND SECO	Marie Control of Contr	*
	ary with with the second	Maria Ma	3 Mary Mary Mary Mary Mary Mary Mary Mary	Wilder proportion - Mary of the contraction of the	<i>M</i>
20 30.000 40 50	60 70 80		3 * * * * * * * * * * * * * * * * * * *	400 500 600 700 1000	
20	60 70 80	(M	4Hz) 300		1.00
30.000 40 50	60 70 80	leading Cor	rect Measure-		).00
30.000 40 50 No. Mk. F	60 70 80	leading Cor	rect Measure- ctor ment L	400 500 600 700 1000	
No. Mk. F	60 70 80  Refreq.	leading Cor Level Fac	rect Measure- ctor ment L	400 500 600 700 1000 Limit Over	cto
No. Mk. F	60 70 80  Refreq.  MHz 7433	leading Cor Level Fac dBuV dB/	rect Measure- ctor ment L /m dBuV/m d	400 500 600 700 1000 Limit Over dBuV/m dB Dete	cto
No. Mk. F  1 44. 2 82.	60 70 80  R Freq.  MHz 7433 9385	leading Cor Level Fac dBuV dB/ 36.59 -22.	rect Measure- ctor ment L /m dBuV/m d .28 14.31 4	_imit Over dBuV/m dB Deter 40.00 -25.69 QF	cto
No. Mk. F  1 44. 2 82. 3 159	60 70 80  Refreq. MHz 7433 9385	dBuV dB/ 36.59 -22.	rect Measure- ctor ment L /m dBuV/m d .28 14.31 4 .16 13.67 4	_imit Over dBuV/m dB Dete 40.00 -25.69 QF 40.00 -26.33 QF	cto
No. Mk. F  1  44.  2  3  159  4  246	Freq. R7433 9385 .7844 .8149	dBuV dB/ 36.59 -22. 36.83 -23.	rect Measure- ctor ment L m dBuV/m d .28 14.31 4 .16 13.67 4 .29 12.75 4	_imit Over dBuV/m dB Deter 40.00 -25.69 QF 40.00 -26.33 QF 43.50 -30.75 QF	ctc
No. Mk. F  1 1 44. 2 82. 3 159 4 294	Freq. RF 7433 9385 .7844 .8149 .1137	dBuV dB/ 36.59 -22. 36.83 -23. 33.04 -20.	rect Measure- ctor ment L /m dBuV/m d .28 14.31 4 .16 13.67 4 .29 12.75 4 .85 16.60 4	imit Over  dBuV/m dB Deter  40.00 -25.69 QF  40.00 -26.33 QF  43.50 -30.75 QF  46.00 -29.40 QF	cto





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### **Above 1GHz**

EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	TUDE	
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz A	NT a	
Remark:	No report for the emiss limit.	ion which more than 10	0 dB below the prescribed

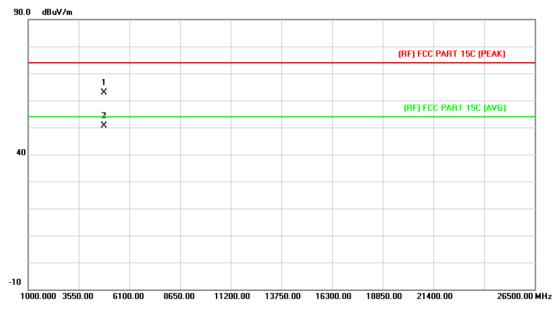


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4817.160			63.54	74.00	-10.46	peak
2	*	4838.760	36.60	13.64	50.24	54.00	-3.76	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Vertical	The same of the sa	The same				
Test Mode:	TX B Mode 2412MHz AN	IT a	- Die				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

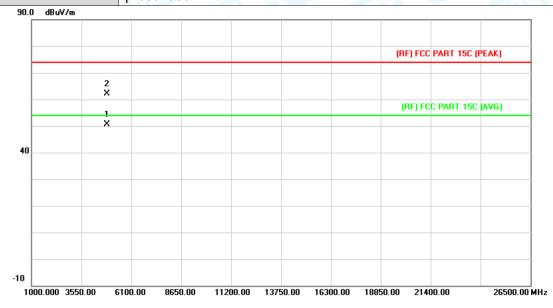


N	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4818.720	49.34	13.53	62.87	74.00	-11.13	peak
2		*	4834.000	37.07	13.62	50.69	54.00	-3.31	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal	VIII TO THE REAL PROPERTY.					
Test Mode:	TX B Mode 2437MHz Al	NT a					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

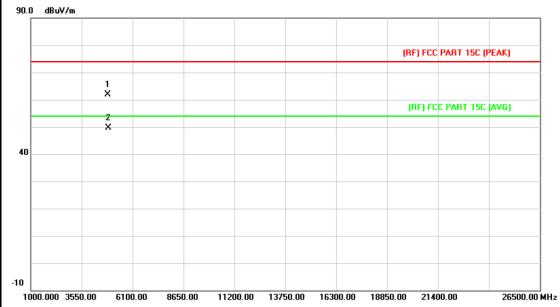


N	lo. N	Лk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	•	4871.860	36.85	13.84	50.69	54.00	-3.31	AVG
2			4872.500	48.28	13.85	62.13	74.00	-11.87	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical							
Test Mode:	TX B Mode 2437MHz A	NT a	The state of the s					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.							
	No report for the emissi		3 below the					

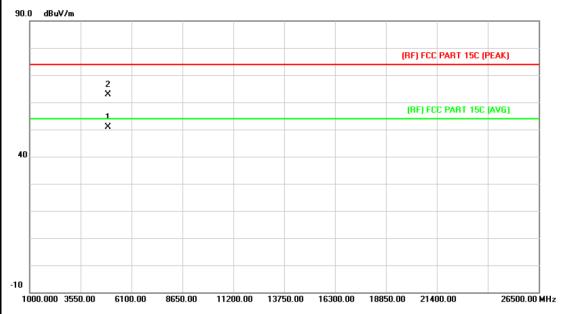


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4865.240	48.02	13.81	61.83	74.00	-12.17	peak
2	*	4878.040	35.80	13.88	49.68	54.00	-4.32	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Horizontal	The same of the sa	NO.					
Test Mode:	TX B Mode 2462MHz A	NT a	- 1 Die					
Remark:	No report for the emissi prescribed limit.	on which more than 10	dB below the					
00.0 40.3/4								

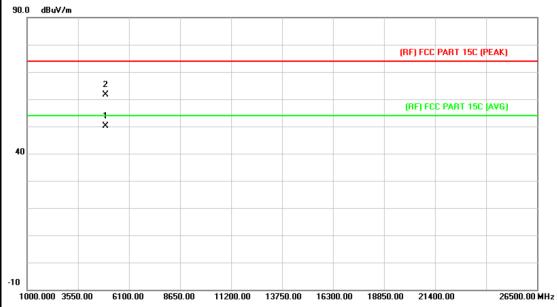


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4926.580	36.83	14.16	50.99	54.00	-3.01	AVG
2		4928.500	48.59	14.18	62.77	74.00	-11.23	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Vertical	The same of the sa	William .					
Test Mode:	TX B Mode 2462MHz A	NT a	The same					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.							
00.0 40-3/4								

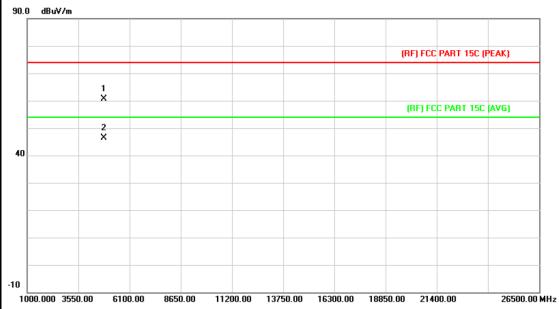


-	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4930.960	36.05	14.19	50.24	54.00	-3.76	AVG
2			4933.580	47.38	14.21	61.59	74.00	-12.41	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1					
Temperature:	25 °C Relative Humidity: 55%							
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX G Mode 2412MHz AN	NT a	TO THE					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.							

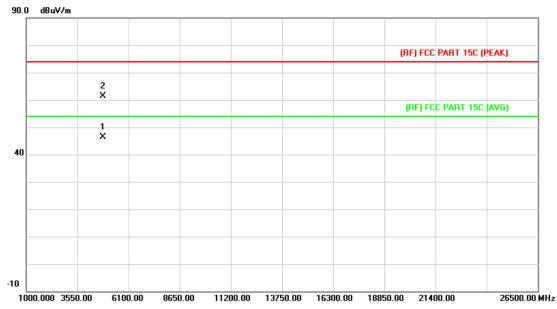


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4822.000	46.96	13.55	60.51	74.00	-13.49	peak
2	*	4831.340	32.73	13.61	46.34	54.00	-7.66	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage: AC 120V/60 Hz							
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX G Mode 2412MHz AN	IT a	TO USE				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
and the Wi							



No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4831.940	32.72	13.61	46.33	54.00	-7.67	AVG
2		4834.000	47.72	13.62	61.34	74.00	-12.66	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz					
Ant. Pol.	Horizontal	The same of the sa	100				
Test Mode:	TX G Mode 2437MHz AN	TX G Mode 2437MHz ANT a					
Remark:	ark: No report for the emission which more than 10 dB below the						

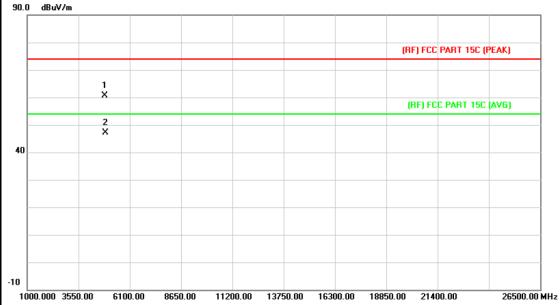


No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4879.260	33.20	13.89	47.09	54.00	-6.91	AVG
2		4883.420	47.36	13.92	61.28	74.00	-12.72	peak



Page: 32 of 102

EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage: AC 120V/60 Hz							
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2437MHz AN	NT a	- 1 Die				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
00 0 dp.4//							

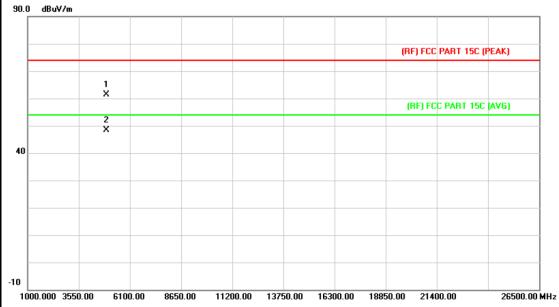


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4865.920	46.84	13.81	60.65	74.00	-13.35	peak
2	*	4881.040	33.15	13.90	47.05	54.00	-6.95	AVG



Page: 33 of 102

EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage: AC 120V/60 Hz							
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX G Mode 2462MHz AN	Га	The second				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
90.0 dP.M/m							

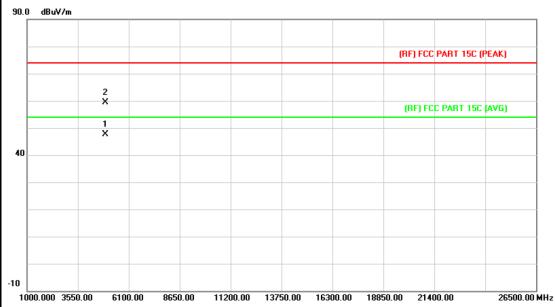


N	o. <b>I</b>	Иk.	Freq.		Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4916.640	47.35	14.10	61.45	74.00	-12.55	peak
2	*		4922.780	34.15	14.14	48.29	54.00	-5.71	AVG



Page: 34 of 102

EUT:	omimo WIFI Repeater	Model:	RP-R1					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	t Voltage: AC 120V/60 Hz							
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX G Mode 2462MHz AN	Та						
Remark: No report for the emission which more than 10 dB below the prescribed limit.								
00.0 40.44								

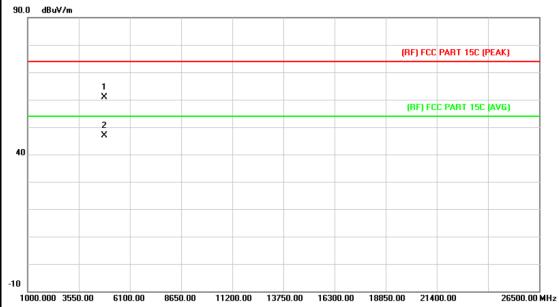


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4922.520	33.57	14.14	47.71	54.00	-6.29	AVG
2	2		4924.480	45.18	14.15	59.33	74.00	-14.67	peak



Page: 35 of 102

EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	<b>25</b> ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Horizontal						
Test Mode:	TX N(HT20) Mode 2412M	Hz ANT a+b	THE RESERVE				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

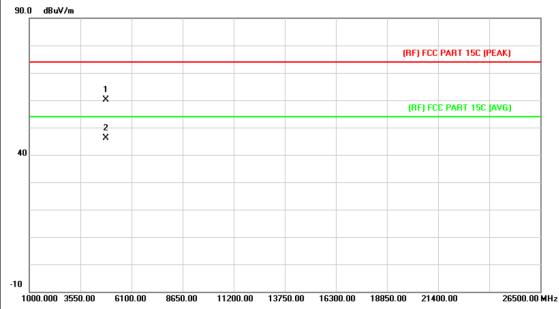


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	I		4830.260	47.25	13.60	60.85	74.00	-13.15	peak
2	2	*	4832.360	33.30	13.61	46.91	54.00	-7.09	AVG



Page: 36 of 102

EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2412MHz ANT a+b					
Remark: No report for the emission which more than 10 dB below prescribed limit.						
00.0 40.47						

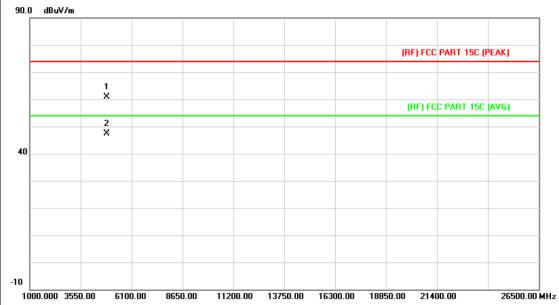


No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4816.200	46.55	13.51	60.06	74.00	-13.94	peak
2	*	4822.180	32.59	13.55	46.14	54.00	-7.86	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz		WILL STATE OF THE			
Ant. Pol.	Horizontal	The same of the sa	Ann.			
Test Mode:	TX N(HT20) Mode 2437N	ИНz ANT a+b	TO DO			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					



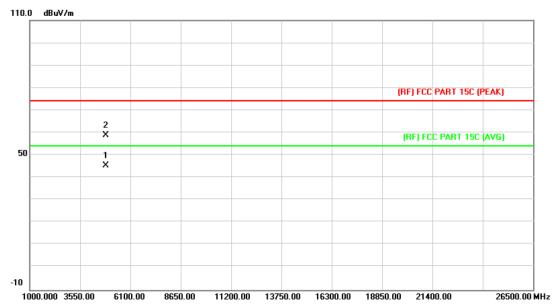
No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4864.500	47.13	13.80	60.93	74.00	-13.07	peak
2	*	4869.540	33.48	13.83	47.31	54.00	-6.69	AVG



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A S	= 0	5 III		J

EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		CALL DES
Ant. Pol.	Vertical	The same of the sa	THE STATE OF THE S
Test Mode:	TX N(HT20) Mode 2437M	IHz ANT a+b	TO USE
Remark:	No report for the emission prescribed limit.	which more than 10 dB	3 below the
1			

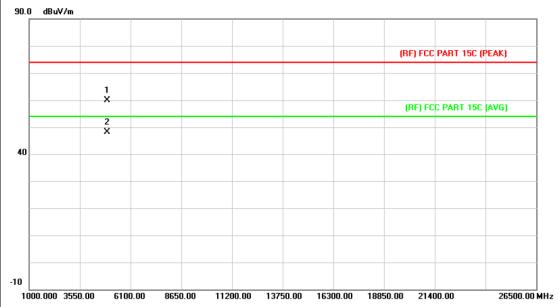


1	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4874.258	31.43	13.86	45.29	54.00	-8.71	AVG
2			4875.163	45.09	13.87	58.96	74.00	-15.04	peak



Report No.: TB-FCC153955
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EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		COLLINS OF THE PARTY OF THE PAR
Ant. Pol.	Horizontal	The same of the sa	Times and the
Test Mode:	TX N(HT20) Mode 2462	MHz ANT a+b	
Remark:	No report for the emissic limit.	on which more than 10 d	B below the prescribed

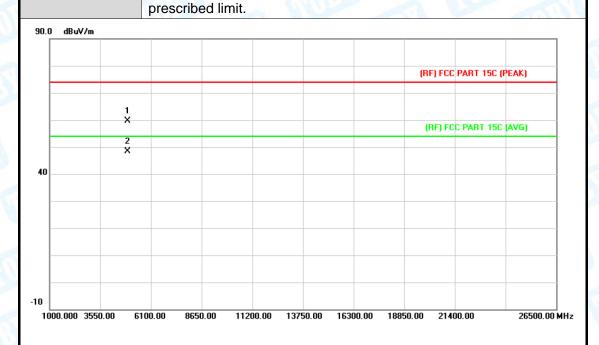


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.680	45.69	14.15	59.84	74.00	-14.16	peak
2	*	4926.560	33.86	14.16	48.02	54.00	-5.98	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Vertical	The same of the sa					
Test Mode:	TX N(HT20) Mode 2462	MHz ANT a+b	TO DO				
Remark:	No report for the emissio	n which more than 10 d	B below the				



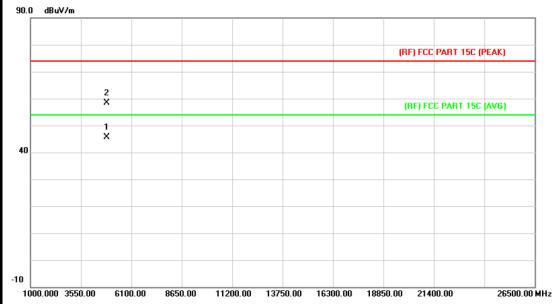
No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4921.920	45.38	14.14	59.52	74.00	-14.48	peak
2	*	4929.100	34.08	14.19	48.27	54.00	-5.73	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz		WILD .			
Ant. Pol.	Horizontal	The same of the sa	The same			
Test Mode:	TX N(HT40) Mode 2422	MHz ANT a+b	- 10 Die			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					
1						

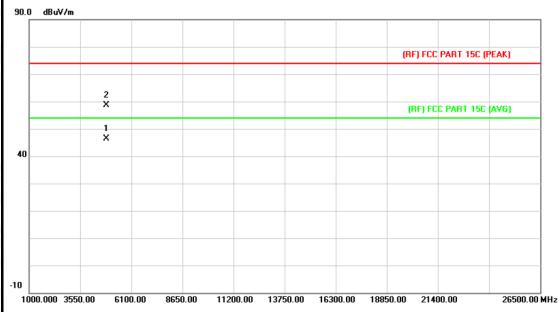


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4846.352	31.99	13.69	45.68	54.00	-8.32	AVG
2		4848.362	44.62	13.70	58.32	74.00	-15.68	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz		CHILD IN			
Ant. Pol.	Vertical	The same of the sa				
Test Mode:	TX N(HT40) Mode 2422	MHz ANT a+b	- 10 W			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
00.0 40.377-						

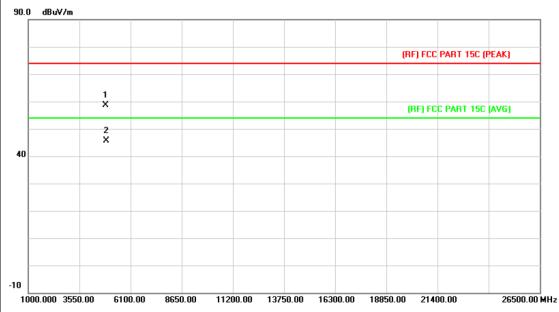


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4845.870	32.63	13.69	46.32	54.00	-7.68	AVG
2		4846.360	44.98	13.69	58.67	74.00	-15.33	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz		MILLER				
Ant. Pol.	Horizontal	The same of the sa	Ann.				
Test Mode:	TX N(HT40) Mode 2437M	IHz ANT a+b	The second				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
00.0 10.00							

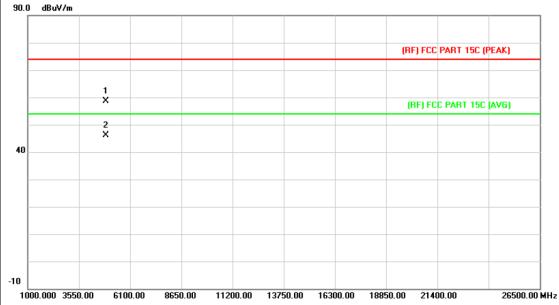


No	o. Mk	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.660	44.76	13.86	58.62	74.00	-15.38	peak
2	*	4876.520	31.81	13.87	45.68	54.00	-8.32	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	<b>25</b> ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz		MILLER			
Ant. Pol.	Vertical	The same of the sa	Ann.			
Test Mode:	TX N(HT40) Mode 2437N	ИНz ANT a+b	The state of the s			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

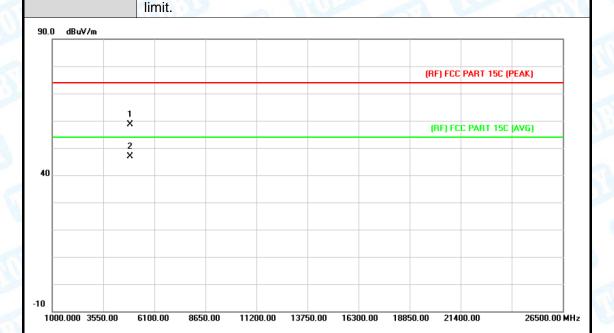


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4878.320	44.79	13.88	58.67	74.00	-15.33	peak
2	*	4876.520	32.34	13.87	46.21	54.00	-7.79	AVG



45 of 102 Page:

EUT:	omimo WIFI Repeater	Model:	RP-R1					
Temperature:	<b>25</b> ℃	25 ℃ Relative Humidity: 55%						
Test Voltage:	AC 120V/60 Hz		CONTRACT OF STREET					
Ant. Pol.	Horizontal	The same of the sa						
Test Mode:	TX N(HT40) Mode 2452N	TX N(HT40) Mode 2452MHz ANT a+b						
Remark:	No report for the emission	n which more than 10 dF	below the prescribed					



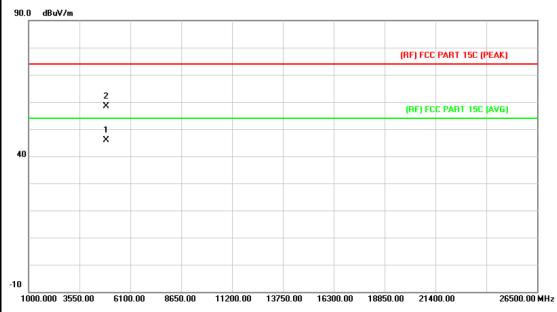
No	. Mk	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4905.250	44.60	14.04	58.64	74.00	-15.36	peak
2	*	4906.541	32.82	14.05	46.87	54.00	-7.13	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz		CHILD ST			
Ant. Pol.	Vertical	The same of the sa	Man.			
Test Mode:	TX N(HT40) Mode 2452N	IHz ANT a+b	THE RESERVE			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
	No report for the emission		below the			



No	o. Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4906.548	31.93	14.05	45.98	54.00	-8.02	AVG
2		4907.652	44.29	14.06	58.35	74.00	-15.65	peak



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# 6. Restricted Bands Requirement

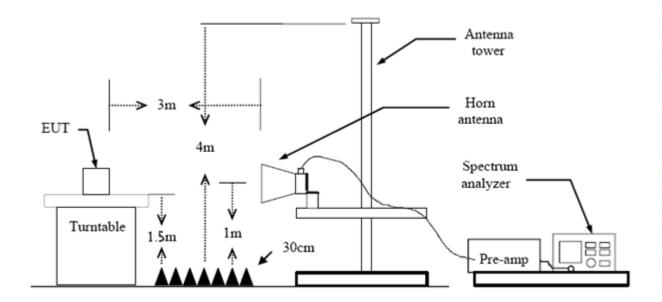
### 6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance Meters (at 3m)				
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

### 6.2 Test Setup



#### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are



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set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

### 6.5 Test Data

Please see the next page.

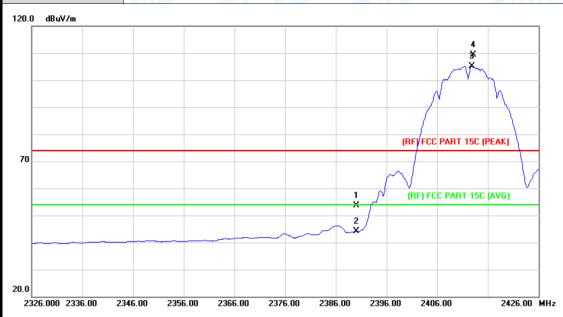




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## (1) Radiation Test

EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	<b>25</b> ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Horizontal	THE PARTY OF THE P	The same				
Test Mode:	TX B Mode 2412MHz ANT	TX B Mode 2412MHz ANT a					
Remark:	N/A						



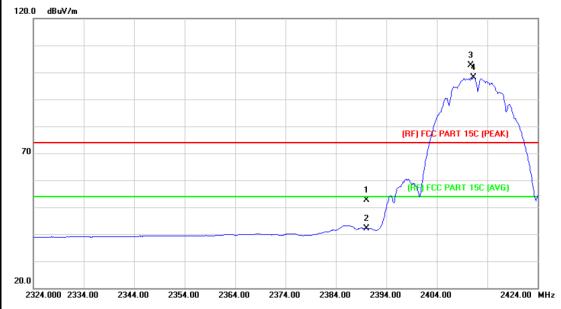
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	52.97	0.77	53.74	74.00	-20.26	peak
2		2390.000	43.25	0.77	44.02	54.00	-9.98	AVG
3	*	2412.800	104.37	0.86	105.23	Fundamenta	l Frequency	AVG
4	Χ	2413.200	108.54	0.86	109.40	Fundamenta	l Frequency	peak



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1	[(	B	Y

			M 20		
Temperature: 25	$^{\circ}$ C	Relative Humidity:	55%		
Test Voltage: AC	AC 120V/60 Hz				
Ant. Pol. Ver	ertical	The same of the sa			
Test Mode: TX	TX B Mode 2412MHz ANT a				
Remark: N/A	A	an'i			



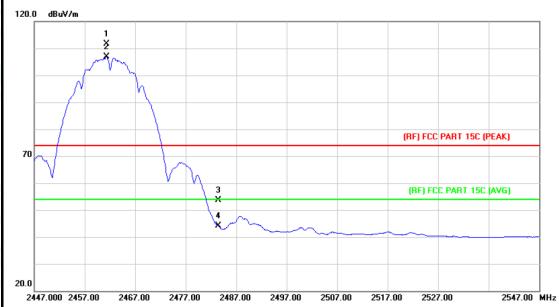
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	51.83	0.77	52.60	74.00	-21.40	peak
2		2390.000	41.31	0.77	42.08	54.00	-11.92	AVG
3	X	2410.700	101.87	0.86	102.73	Fundamenta	l Frequency	peak
4	*	2411.300	97.28	0.86	98.14	Fundamenta	l Frequency	AVG





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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Horizontal	The same of the sa				
Test Mode:	TX B Mode 2462MHz AN	TX B Mode 2462MHz ANT a				
Remark:	N/A		Miss.			



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2461.300	110.46	1.07	111.53	Fundamenta	l Frequency	peak
2	*	2461.300	105.69	1.07	106.76	Fundamenta	l Frequency	AVG
3		2483.500	52.48	1.17	53.65	74.00	-20.35	peak
4		2483.500	42.94	1.17	44.11	54.00	-9.89	AVG



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			THE PARTY OF THE P		
EUT:	omimo WIFI Repeater	Model:	RP-R1		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz		COLL DES		
Ant. Pol.	Vertical	The same of the sa			
Test Mode:	TX B Mode 2462MHz ANT a				



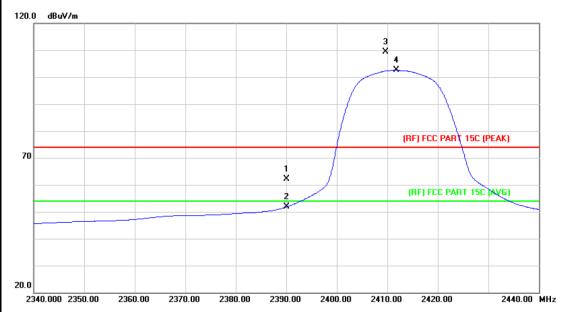
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2461.000	103.13	1.06	104.19	Fundamental	Frequency	peak
2	*	2461.300	98.78	1.07	99.85	Fundamental	Frequency	AVG
3		2483.500	51.50	1.17	52.67	74.00	-21.33	peak
4		2483.500	40.53	1.17	41.70	54.00	-12.30	AVG



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		STATE OF	PT III I TO

EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Horizontal		Ann.			
Test Mode:	TX G Mode 2412MHz ANT a					
Remark:	N/A					



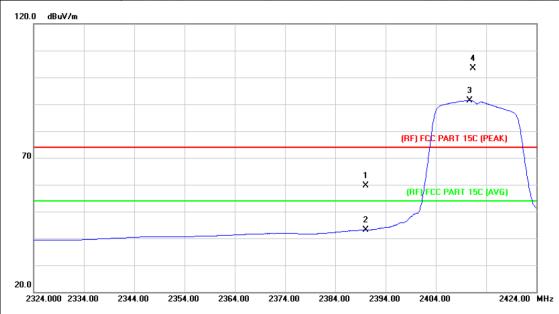
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	61.34	0.77	62.11	74.00	-11.89	peak
2		2390.000	51.06	0.77	51.83	54.00	-2.17	AVG
3	Χ	2409.700	108.51	0.85	109.36	Fundamenta	al Frequency	peak
4	*	2411.800	101.69	0.86	102.55	Fundamenta	al Frequency	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz	AC 120V/60 Hz				
Ant. Pol.	Vertical	The same of the sa	Ann.			
Test Mode:	TX G Mode 2412MHz AN	IT a	TO VICE			
Remark:	N/A		THE			
	•					



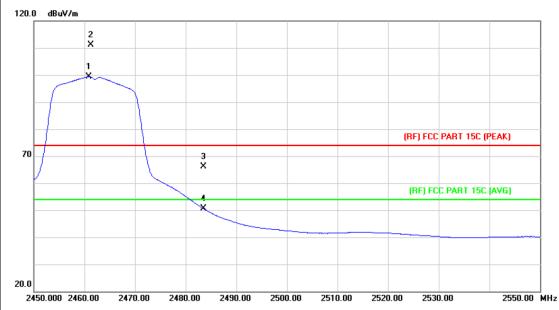
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	58.97	0.77	59.74	74.00	-14.26	peak
2		2390.000	42.36	0.77	43.13	54.00	-10.87	AVG
3	*	2410.700	90.56	0.86	91.42	— Fundamenta	I Frequency	AVG
4	Χ	2411.400	102.40	0.86	103.26	— Fundamenta	I Frequency	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	<b>25</b> ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2462MHz ANT a					
Remark:	N/A		TURE -			



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2460.900	98.32	1.06	99.38	Fundamenta	I Frequency	AVG
2	Χ	2461.300	110.05	1.07	111.12	 Fundamenta	I Frequency	peak
3		2483.500	64.86	1.17	66.03	74.00	-7.97	peak
4		2483.500	49.35	1.17	50.52	54.00	-3.48	AVG



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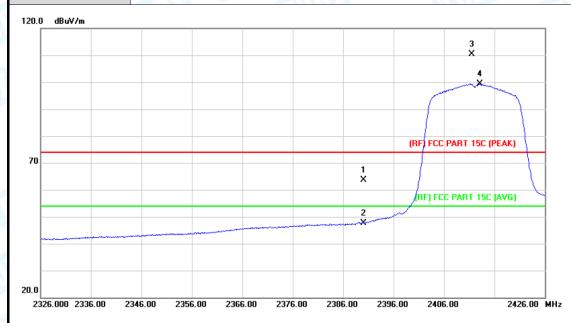
UT: omimo WIFI Repeater		Mode	Model:		RP-R1				
emperati	ure:	25 °C	C	CILLY S	Relat	ive Hur	nidity:	55%	
est Volta	ge:	AC 1	20V/60 H	z	ALL Y			WHO.	
nt. Pol.		Verti	cal		Bar	-45		1	mr.
est Mode	<b>)</b> :	TX G	Mode 24	162MHz AN	IT a	Та			Andrea
Remark:		N/A	a r			all and		MP S	
120.0 dBuV/i	n								
	2 X								
	1 X								
		$\overline{}$							
		+					(RF) FCC I	PART 15C (PEAK	g
70			3 X						
<i>-</i>		$\rightarrow$				(RF) FC		PART 15C (AVE	i)
			4 X						
20.0 2449.000 2	459 NN 2	469.00	2479.00	2489.00 249	9.00 250	9.00 25	19.00 2529.	NN 2	2549.00 MHz
2440.000 2	100.00	.400.00	2413.00	2400.00	3.00 230	5.00 25	10.00 2020.		.040.00 Hill
			Readir	ng Corre	ot Ma	asure-			
No. M	k. Fr	eq.	Level	_		nent	Limit	Over	
	М	Hz	dBu∀	dB/m	dl	BuV/m	dBuV/m	dB	Detecto
1 *	2460	.900	91.89	1.06	9	2.95	Fundamenta	I Frequency	AVG
2 X	2461	.200	103.66	3 1.07	10	04.73	Fundamenta	al Frequency	peak
3	2483	.500	67.22	1.17	· 6	8.39	74.00	-5.61	peak
	2483		44.77	1.17	<u> </u>		54.00	-8.06	AVG



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- N			
EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		WHO IS
Ant. Pol.	Horizontal	The same of the sa	
Test Mode:	TX N(HT20) Mode 2412	MHz ANT a+b	A IDA





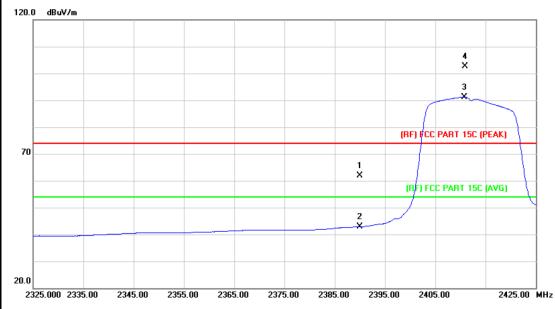
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	62.81	0.77	63.58	74.00	-10.42	peak
2		2390.000	46.96	0.77	47.73	54.00	-6.27	AVG
3	X	2411.500	109.45	0.86	110.31	Fundamenta	I Frequency	peak
4	*	2413.100	98.47	0.86	99.33	Fundamenta	I Frequency	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT20) Mode 2412MHz ANT a+b					
Remark:	N/A	and the	mniss.			

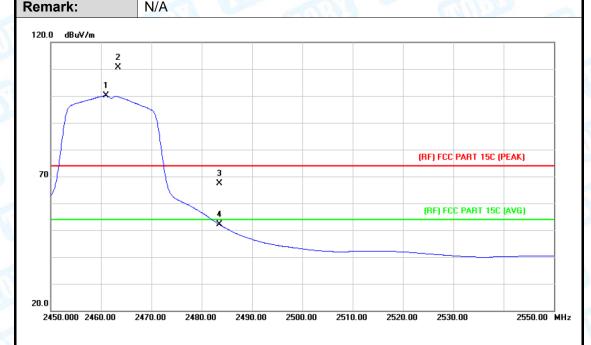


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	_
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	61.14	0.77	61.91	74.00	-12.09	peak
2		2390.000	42.12	0.77	42.89	54.00	-11.11	AVG
3	*	2410.800	90.29	0.86	91.15	Fundamental	Frequency	AVG
4	Χ	2410.900	101.66	0.86	102.52	Fundamental	Frequency	peak



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 °C Relative Humidity: 55%					
Test Voltage:	AC 120V/60 Hz		WILLIAM TO THE PARTY OF THE PAR			
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT20) Mode 2462MHz ANT a+b					
Pomark:	N/Δ					



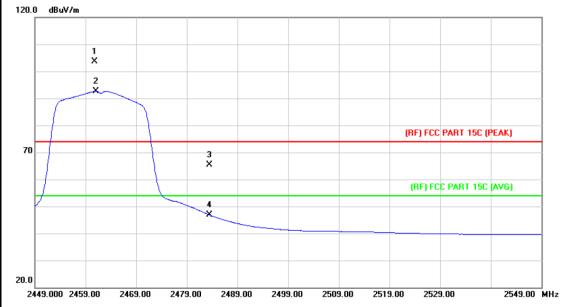
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.000	99.11	1.06	100.17	Fundamental	Frequency	AVG
2	Χ	2463.400	109.49	1.08	110.57	Fundamenta	l Frequency	peak
3		2483.500	66.11	1.17	67.28	74.00	-6.72	peak
4		2483.500	50.96	1.17	52.13	54.00	-1.87	AVG



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TO.	דת

EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2462MHz ANT a+b					
Remark:	N/A		mns s			



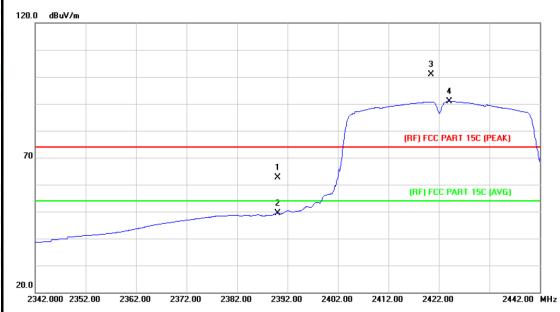
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2460.800	102.69	1.06	103.75	Fundamenta	l Frequency	peak
2	*	2461.000	91.64	1.06	92.70	Fundamenta	l Frequency	AVG
3		2483.500	64.09	1.17	65.26	74.00	-8.74	peak
4		2483.500	45.66	1.17	46.83	54.00	-7.17	AVG





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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Horizontal		A Dis				
Test Mode:	TX N(HT40) Mode 2422MHz ANT a+b						
Remark: N/A							



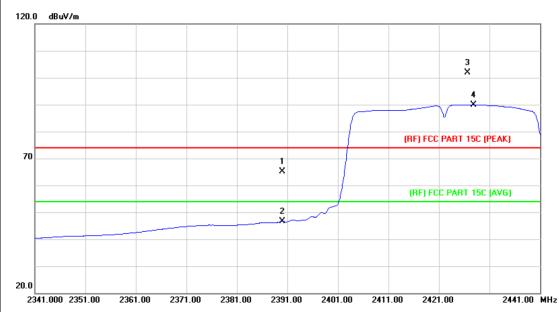
N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	61.91	0.77	62.68	74.00	-11.32	peak
2		2390.000	48.57	0.77	49.34	54.00	-4.66	AVG
3	X	2420.400	99.96	0.89	100.85	Fundamenta	I Frequency	peak
4	*	2424.100	89.95	0.93	90.88	Fundamenta	I Frequency	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz					
Ant. Pol.	Vertical	The same of the sa				
Test Mode:	TX N(HT40) Mode 2422MHz ANT a+b					
Remark:	N/A					



Ne	o. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
·		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	64.46	0.77	65.23	74.00	-8.77	peak
2		2390.000	45.82	0.77	46.59	54.00	-7.41	AVG
3	Х	2426.700	100.87	0.93	101.80	Fundamental	Frequency	peak
4	*	2427.800	89.02	0.94	89.96	Fundamental	Frequency	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1			
Temperature:	<b>25</b> ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 Hz		WILL STATE OF THE PARTY OF THE			
Ant. Pol. Horizontal						
Test Mode:	TX N(HT40) Mode 2452	MHz ANT a+b	- 1 Miles			
Remark:	N/A		WILL THE STATE OF			
120.0 dBuV/m						
	×					
	2					

	1					
	×					
	 ×					
				(RF) FCC	PART 15C (I	PEAK)
70			3 3			
			4	(RF) FC	C PART 15C	(AVG)
			×			
-						
0.0						

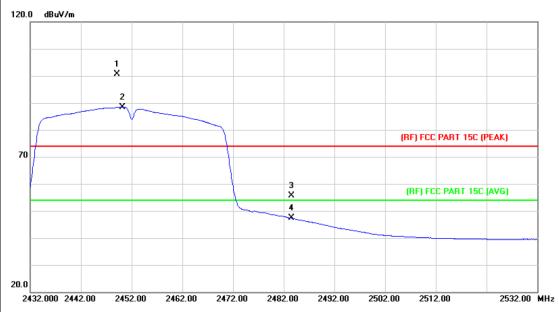
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2449.900	105.95	1.02	106.97	Fundamental	Frequency	peak
2	*	2450.200	94.45	1.02	95.47	Fundamental	Frequency	AVG
3		2483.500	66.02	1.17	67.19	74.00	-6.81	peak
4		2483.500	51.24	1.17	52.41	54.00	-1.59	AVG



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EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2452	TX N(HT40) Mode 2452MHz ANT a+b					
Remark:	N/A		WURP -				



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		Χ	2449.100	99.50	1.02	100.52	Fundamenta	l Frequency	peak
2		*	2450.200	87.43	1.02	88.45	Fundamenta	l Frequency	AVG
3			2483.500	54.39	1.17	55.56	74.00	-18.44	peak
4			2483.500	46.11	1.17	47.28	54.00	-6.72	AVG

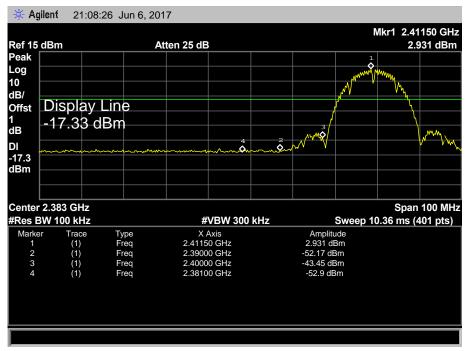


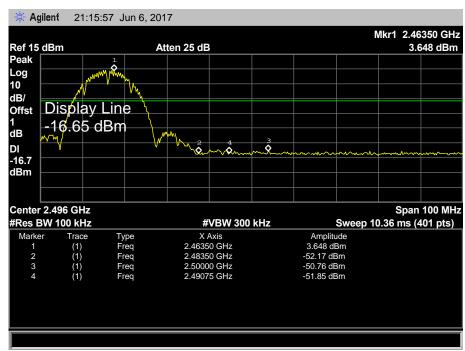


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### (2) Conducted Test

EUT:	omimo WIFI Repeater	Model:	RP-R1				
Temperature:	<b>25</b> ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 Hz	W. Comment	100				
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz ANT a						
Remark: The EUT is programed in continuously transmitting mode							



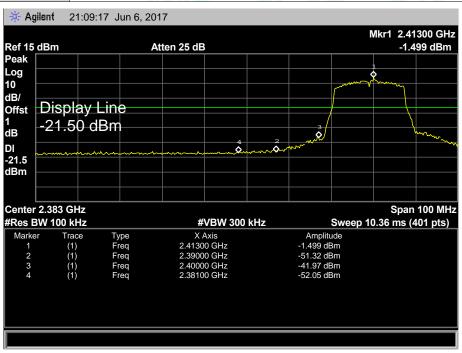


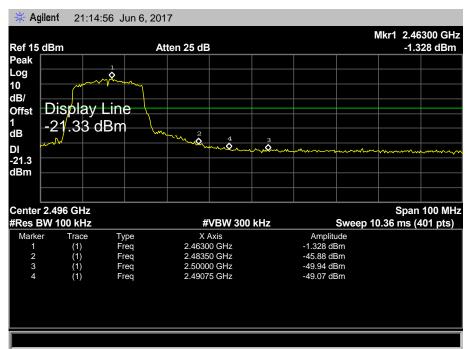




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EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz ANT a		
Remark:	The EUT is programed in continuously transmitting mode		

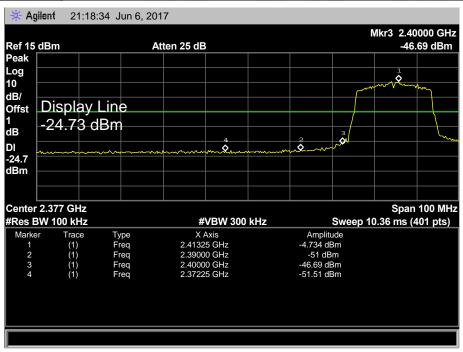


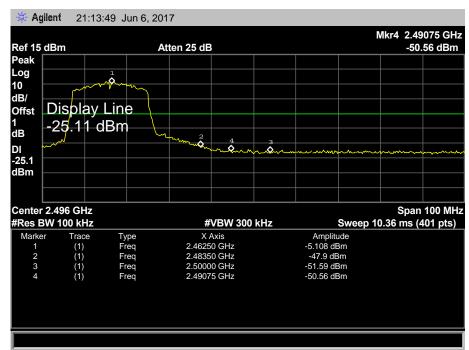






EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT a		
Remark:	The EUT is programed in continuously transmitting mode		



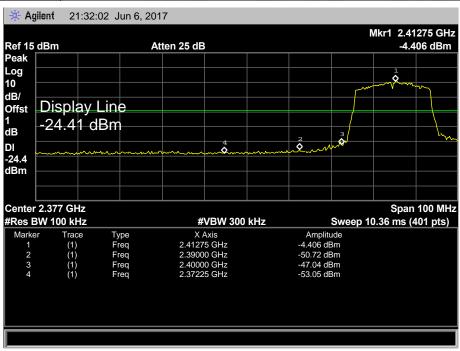


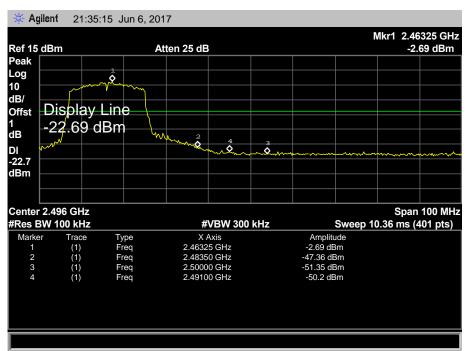




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EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz ANT b		
Remark:	The EUT is programed in continuously transmitting mode		



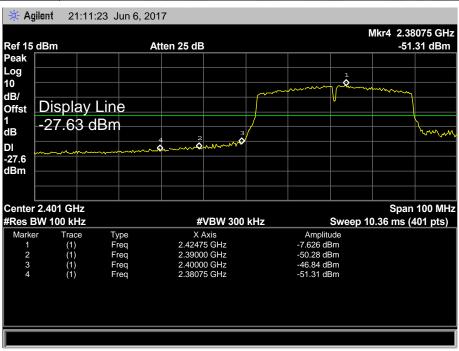


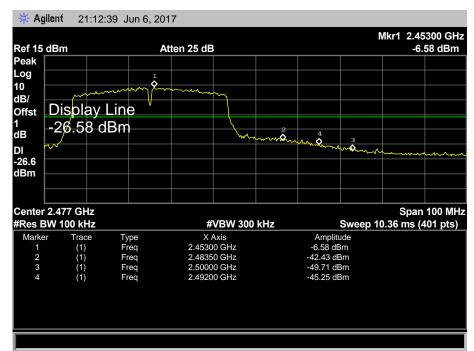




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EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT a		
Remark:	The EUT is programed in continuously transmitting mode		



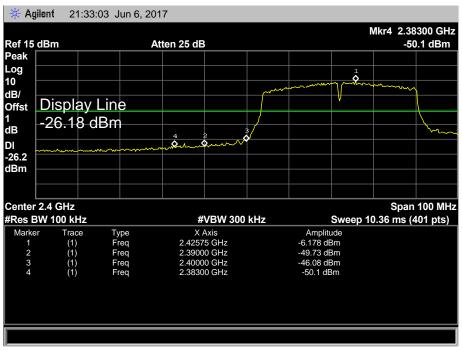


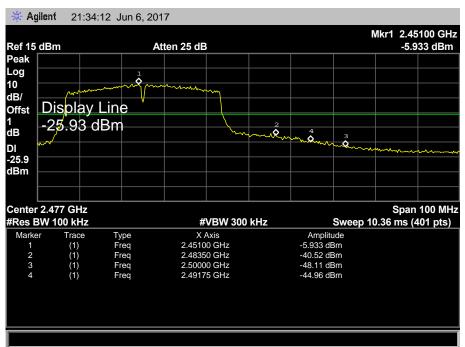




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EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz ANT b		
Remark:	The EUT is programed in continuously transmitting mode		







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## 7. Bandwidth Test

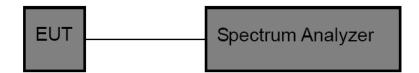
### 7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210			
Test Item	Limit	Frequency Range(MHz)	
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5	

## 7.2 Test Setup



#### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

## 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.



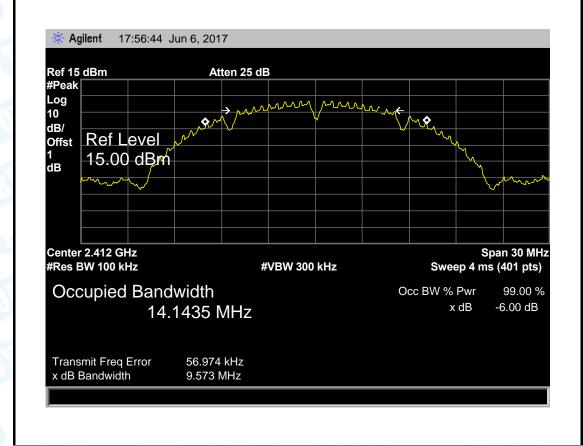
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## 7.5 Test Data

omimo WIFI Repeater	Model:	RP-R1
25 ℃	Relative Humidity:	55%
AC 120V/60 Hz		
TX 802.11B Mode ANT a		
Channel frequency 6dB Bandwidth 99% Bandwidth Limit		
(MHz)	(MHz)	(MHz)
9.573	14.1435	
9.583	14.1801	>=0.5
10.060	14.1540	
	25 °C  AC 120V/60 Hz  TX 802.11B Mode ANT a  cy 6dB Bandwidth (MHz) 9.573 9.583	25 °C Relative Humidity:  AC 120V/60 Hz  TX 802.11B Mode ANT a  cy 6dB Bandwidth (MHz) 9.573 14.1435 9.583 14.1801

### 802.11B Mode (Antenna a)

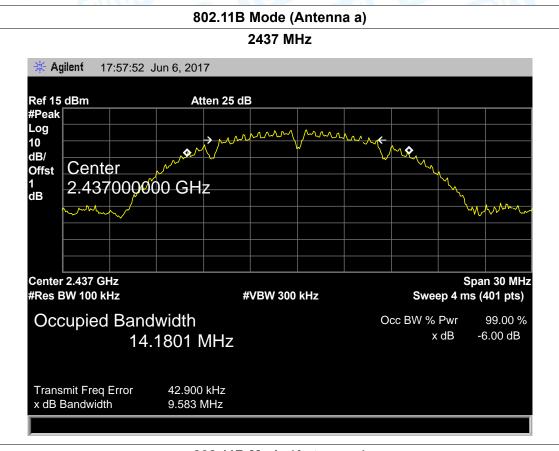
#### 2412 MHz

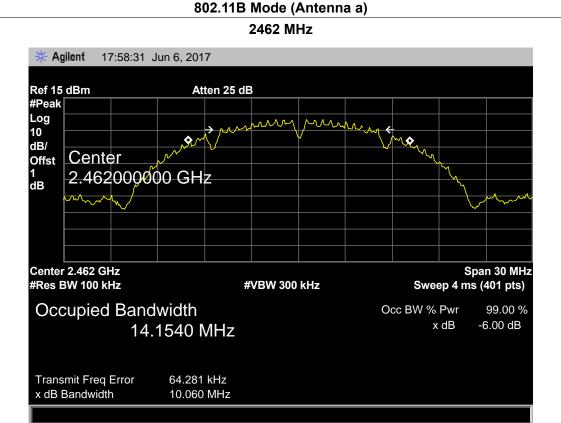




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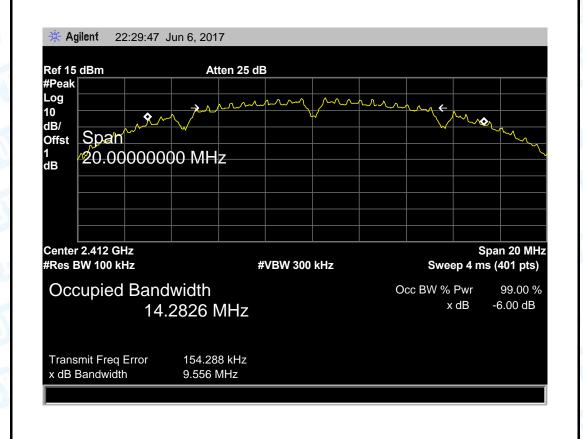
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EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Toet Voltage:	AC 120V/60 Hz		

**Test Mode:** TX 802.11B Mode ANT b

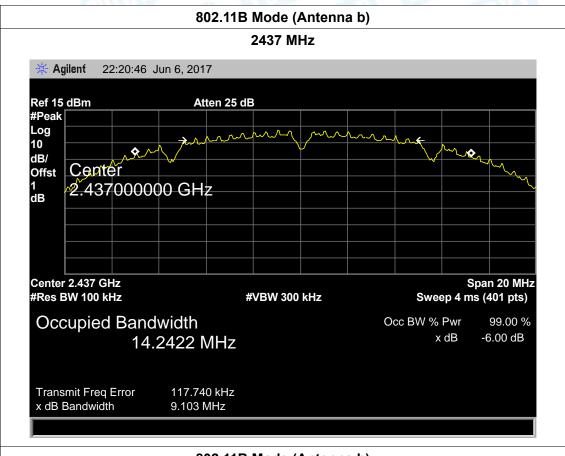
10001110111			E. 11 1 1 2
Channel frequency	6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	9.556	14.2826	
2437	9.103	14.2422	>=0.5
2462	9.542	14.1813	

### 802.11B Mode (Antenna b)

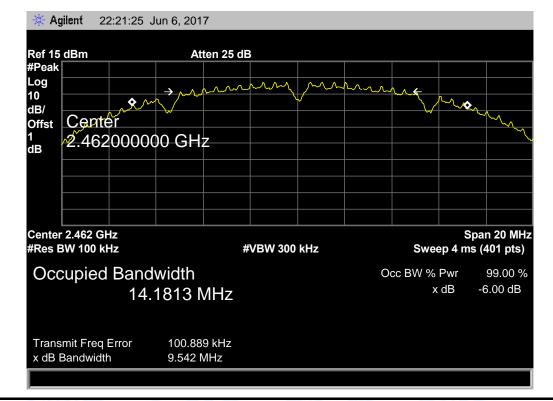




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## 802.11B Mode (Antenna b)

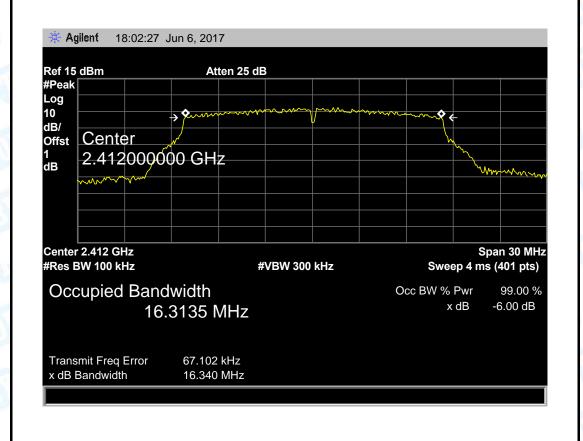




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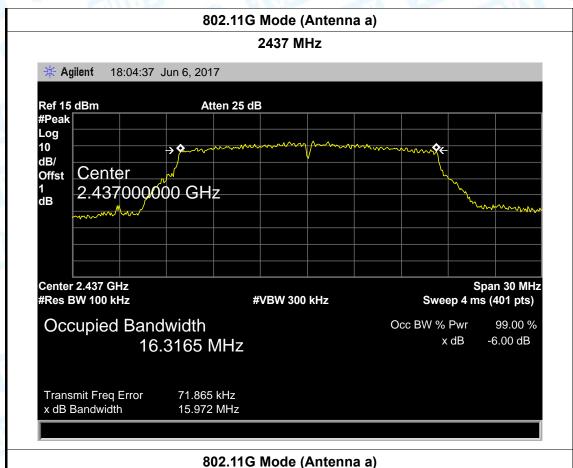
EUT:	omimo WIFI Repeater	Model:	RP-R1		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz		WILD ST		
Test Mode:	TX 802.11G Mode ANT a				
Channel frequence	cy 6dB Bandwidth	99% Bandwidth Limit			
(MHz)	(MHz)	(MHz)	(MHz)		
2412	16.340	16.3135			
2437	15.972	16.3165	>=0.5		
2462	16.076	16.3094			
	802.11G Mode	(Antenna a)			







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#### 2462 MHz \* Agilent 20:31:40 Jun 6, 2017 Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 2.462000000 GHz 1 dB Center 2.462 GHz Span 30 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 16.3094 MHz Transmit Freq Error 77.026 kHz 16.076 MHz x dB Bandwidth



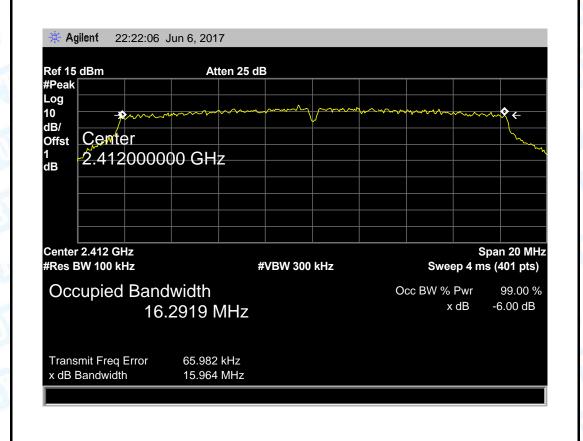
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EUT:	omimo WIFI Repeater	Model:	RP-R1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		Call Des

**Test Mode:** TX 802.11G Mode ANT b

1000111011			E. M. V.
Channel frequency	6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	15.964	16.2919	
2437	15.547	16.2968	>=0.5
2462	16.393	16.3045	

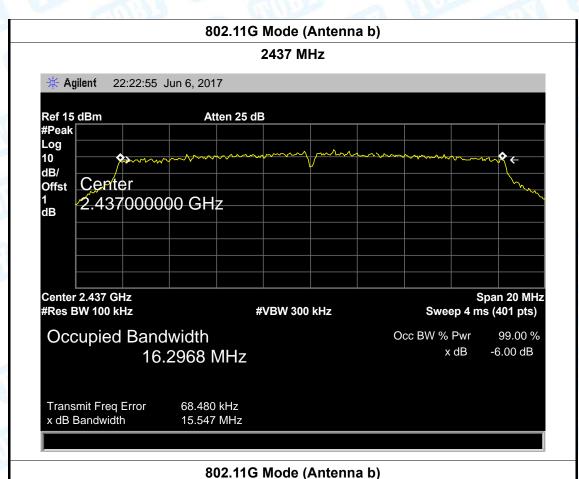
### 802.11G Mode (Antenna b)





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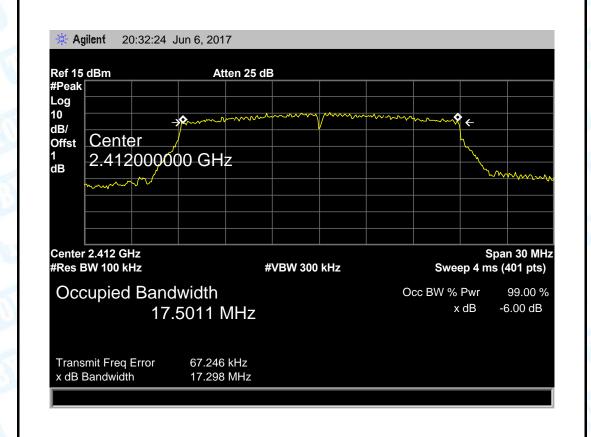
#### 2462 MHz \* Agilent 22:23:34 Jun 6, 2017 Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB 16.3045 MHz x dB Transmit Freq Error 66.283 kHz x dB Bandwidth 16.393 MHz



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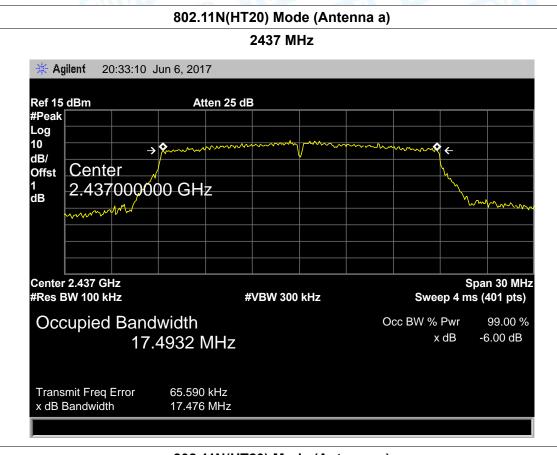
			UB. 4C. 1111		
EUT:	omimo WIFI Repeater	Model:	RP-R1		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Test Mode:	TX 802.11N(HT20) Mode ANT a				
Channel frequence	ncy 6dB Bandwidth 99% Bandwidth Limit				
(MHz)	(MHz)	(MHz)	(MHz)		
2412	17.298	17.5011			
2437	17.476	17.4932	>=0.5		
2462	17.301	17.4928			
	802.11N(HT20) Mo	de (Antenna a)	1		







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## 802.11N(HT20) Mode (Antenna a) 2462 MHz

#### \* Agilent 20:34:20 Jun 6, 2017 Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 30 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 %

Transmit Freq Error 63.240 kHz x dB Bandwidth 17.301 MHz

17.4928 MHz

-6.00 dB

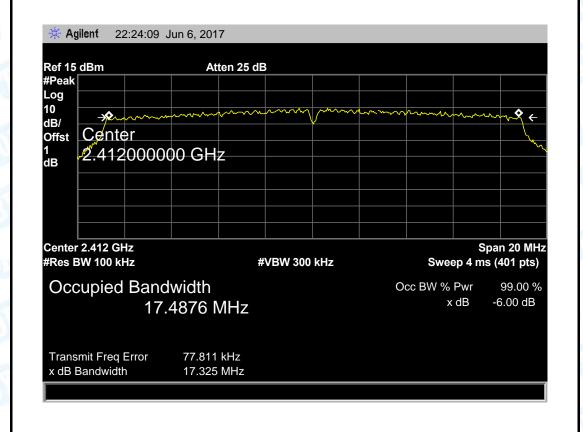
x dB



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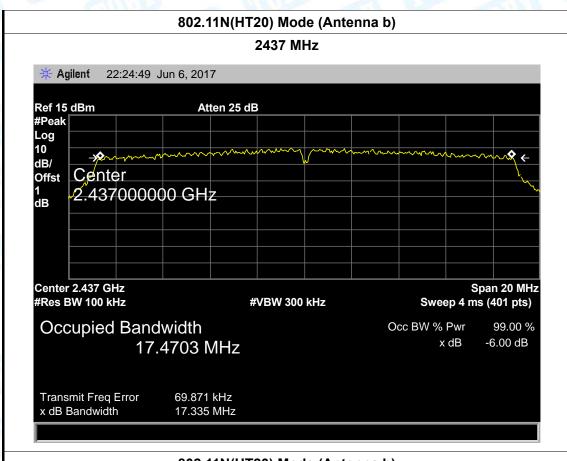
EUT:	omimo WIFI Repeater Model:		RP-R1	
Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz			
Test Mode:	TX 802.11N(HT20) Mode ANT b			
Channel frequence	ncy 6dB Bandwidth 99% Bandwidth Limit			
(MHz)	(MHz)	(MHz)	(MHz)	
2412	17.325	17.4876		
2437	17.335	17.4703	>=0.5	
2462 17.317		17.4938		
	802.11N(HT20) Mo	ode (Antenna b)		



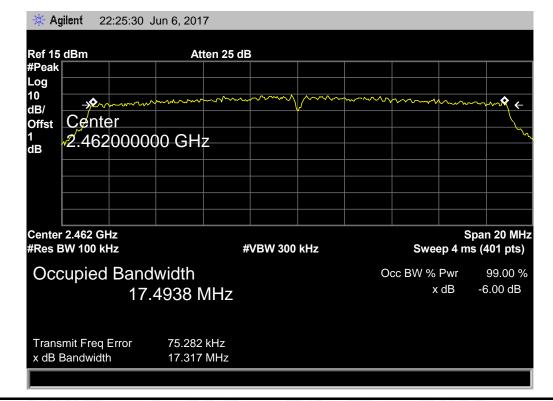




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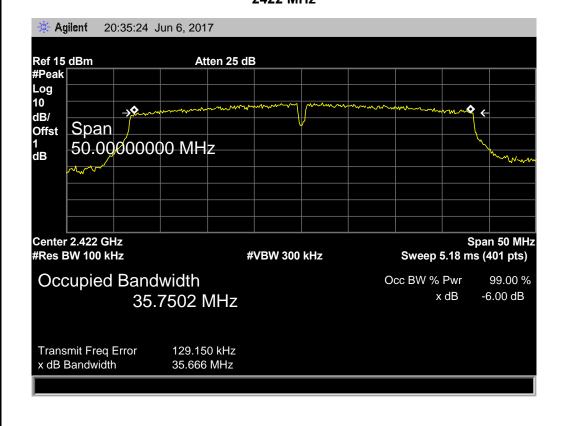
## 802.11N(HT20) Mode (Antenna b)





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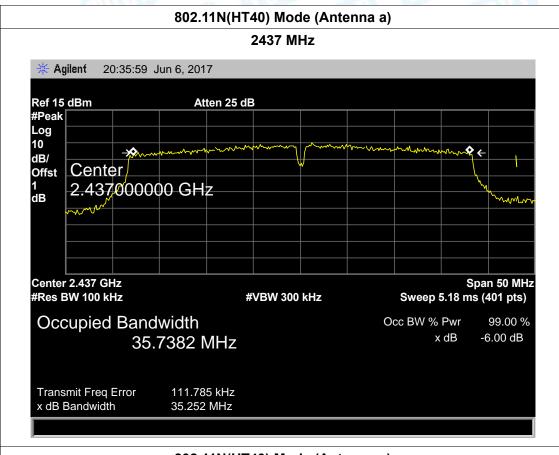
omimo WIFI Repeater	Model:	RP-R1		
25 ℃	Relative Humidity:	55%		
AC 120V/60 Hz				
de: TX 802.11N(HT40) Mode ANT a				
ency 6dB Bandwidth 99% Bandwidth Limit				
(MHz) (MHz)		(MHz)		
35.666	35.7502			
35.252	35.7382	>=0.5		
2452 35.680				
802.11N(HT40) Mc	ode (Antenna a)			
	25 °C  AC 120V/60 Hz  TX 802.11N(HT40) Mode A  cy 6dB Bandwidth (MHz)  35.666  35.252  35.680	25 °C Relative Humidity:  AC 120V/60 Hz  TX 802.11N(HT40) Mode ANT a  cy 6dB Bandwidth (MHz) (MHz)  35.666 35.7502  35.252 35.7382		



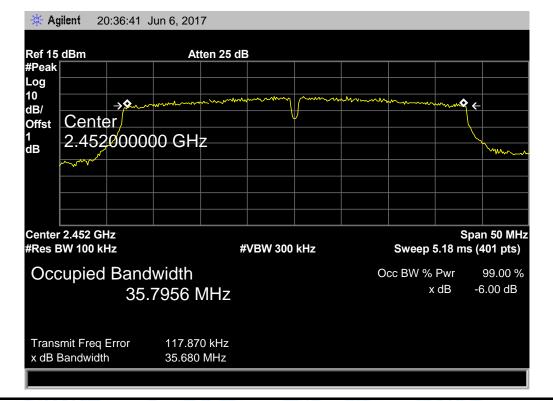




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# 802.11N(HT40) Mode (Antenna a)

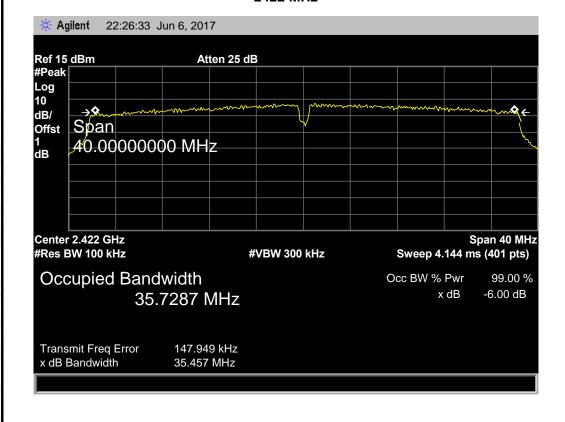




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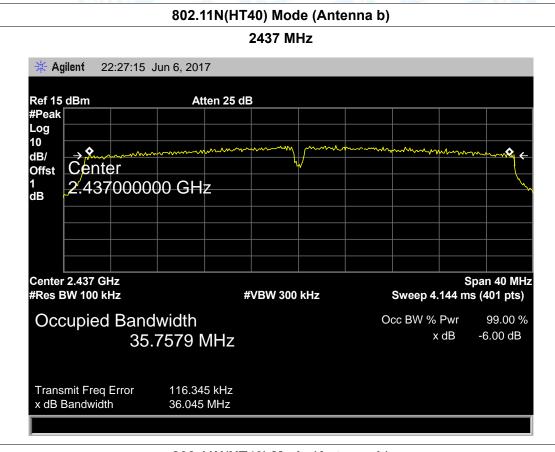
EUT:	omimo WIFI Repeater	Model:	RP-R1		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz		CHILDRE		
Test Mode:	TX 802.11N(HT40) Mode ANT b				
Channel frequence	equency 6dB Bandwidth 99% Bandwidth Limit				
(MHz)	(MHz)	(MHz)	(MHz)		
2422	35.457	35.7287			
2437	36.045	35.7579	>=0.5		
2452 33.200		35.7351			
	802.11N(HT20) Mc	ode (Antenna b)			



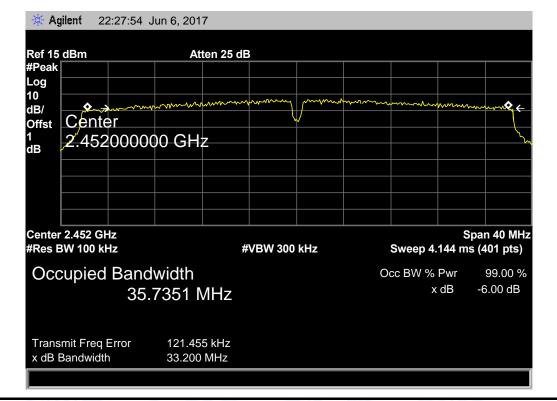




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#### 802.11N(HT40) Mode (Antenna b)





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# 8. Peak Output Power Test

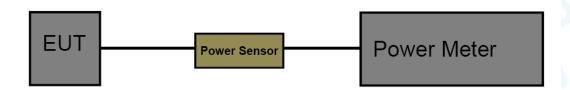
### 8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210					
Test Item Limit Frequency Range(MHz					
Peak Output Power	1 Watt or 30 dBm	2400~2483.5			

# 8.2 Test Setup



#### 8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04 and KDB 662911 D01 Multiple Transmitter Output v02r01.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

# 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.



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# 8.5 Test Data

		Conduct	ed Power		
		802.111	Power		
Channel	Eroguanov	Con	ducted Power (c	iBm)	Max. Limit
Channel Frequer	Frequency	Ant. a	Ant. b	Total	(dBm)
1	2412 MHz	14.28	14.34		
6	2437 MHz	14.52	14.48		30
11	2462 MHz	14.54	14.41		
		802.11	g Power		
Observati	F	Con	ducted Power (d	iBm)	Max. Limit
Channel	Frequency	Ant. a	Ant. b	Total	(dBm)
1	2412 MHz	14.14	14.34		
6	2437 MHz	14.49	14.14		30
11	2462 MHz	14.64	14.16		
		802.11n(H	T20) Power		
Channel	Frequency	Conducted Power (dBm)			Max. Limit
Chamilei	Frequency	Ant. a	Ant. b	Total	(dBm)
1	2412 MHz	11.14	11.07	14.12	
6	2437 MHz	11.57	10.91	14.26	30
11	2462 MHz	11.17	11.46	14.33	
		802.11n(H	T40) Power		
Channal	Frequency	Con	ducted Power (c	iBm)	Max. Limit
Channel	Frequency	Ant. a	Ant. b	Total	(dBm)
3	2422 MHz	11.71	10.90	14.33	
6	2437 MHz	11.35	11.45	14.41	30
9	2452 MHz	11.05	11.28	14.18	

So  $P_{out} = P_{limit} = 30dBm$ 



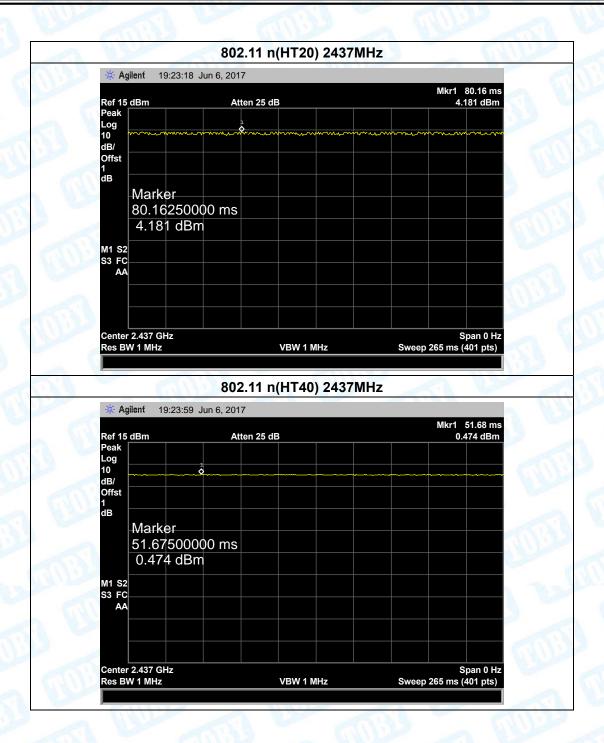


de b g IT20) IT40) ots.	TODS	Duty cycle	
g IT20) IT40) ots.	TOUS		1 / 10 / 10 /
IT20) IT40) ots.			
iT40) ots.	- 1	>98%	
ots.			
802.11 k	2437MHz	1:35	CALLE.
31 Jun 6, 2017			
Atten 25 dB		Mkr1 3.313 ms 4.474 dBm	
0000 ms Bm			
DIII			
VD	W 1 MHz	Span 0 Hz Sweep 265 ms (401 pts)	
VB	VV I IVITIZ	Sweep 205 His (401 pts)	
802.11 (	g 2437MHz		
44 Jun 6, 2017			-
Atten 25 dB		Mkr1 25.18 ms 6.273 dBm	
Allen 25 db		0.273 dBiii	
0000 ms			
0000 ms Bm			
Bm	W 1 MHz	Span 0 Hz Sweep 265 ms (401 pts)	
b b	dem		



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# 9. Power Spectral Density Test

#### 9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)					
Test Item	Limit	Frequency Range(MHz)			
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5			

# 9.2 Test Setup



### 9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04 and KDB 662911 D01 Multiple Transmitter Output v02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak(7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

# 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.



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# 9.5 Test Data

COLVER LOOP		000 441	h Mode			
802.11b Mode						
Channel	Frequency	Conducted Power (dBm/3KHz)			Max. Limit	
		Ant. a	Ant. b	Total	(dBm/3KHz)	
1	2412 MHz	-9.552	-10.97		8	
6	2437 MHz	-11.63	-9.577			
11	2462 MHz	-10.03	-12.03			
	1	802.11	g Mode			
Channel	_	Conducted Power (dBm/3KHz)			Max. Limit	
	Frequency	Ant. a	Ant. b	Total	(dBm/3KHz)	
1	2412 MHz	-14.80	-14.99		8	
6	2437 MHz	-15.20	-15.43			
11	2462 MHz	-13.66	-15.16			
802.11n(HT20) Mode						
Channel	Frequency	Conducted Power (dBm/3KHz)			Max. Limit	
		Ant. a	Ant. b	Total	(dBm/3KHz)	
1	2412 MHz	-14.86	-19.09	-13.47	8	
6	2437 MHz	-17.66	-19.02	-15.28		
11	2462 MHz	-16.82	-18.74	-14.66		
802.11n(HT40) Mode						
Channel	F	Conducted Power (dBm/3KHz)		Max. Limit		
	Frequency	Ant. a	Ant. b	Total	(dBm/3KHz)	
3	2422 MHz	-19.99	-20.40	-17.18	8	
6	2437 MHz	-18.72	-21.62	-16.92		
9	2452 MHz	-19.77	-22.07	-17.76		
Note: When A	NT1 and ANT2 i	ranemitting ein	nultaneously th	o total Antonna	Gain=Gain	

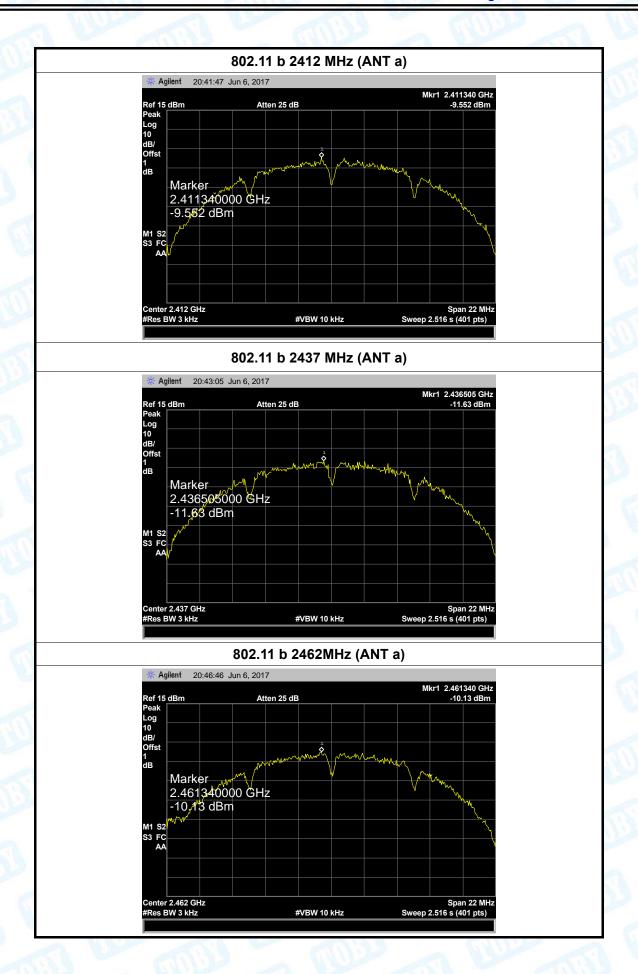
Note: When ANT1 and ANT2 transmitting simultaneously, the total Antenna Gain=Gain 1+Gani 2=4.01 dBi<6 dBi.

So Pout =Plimit=8

Test plots please refer to below pages:

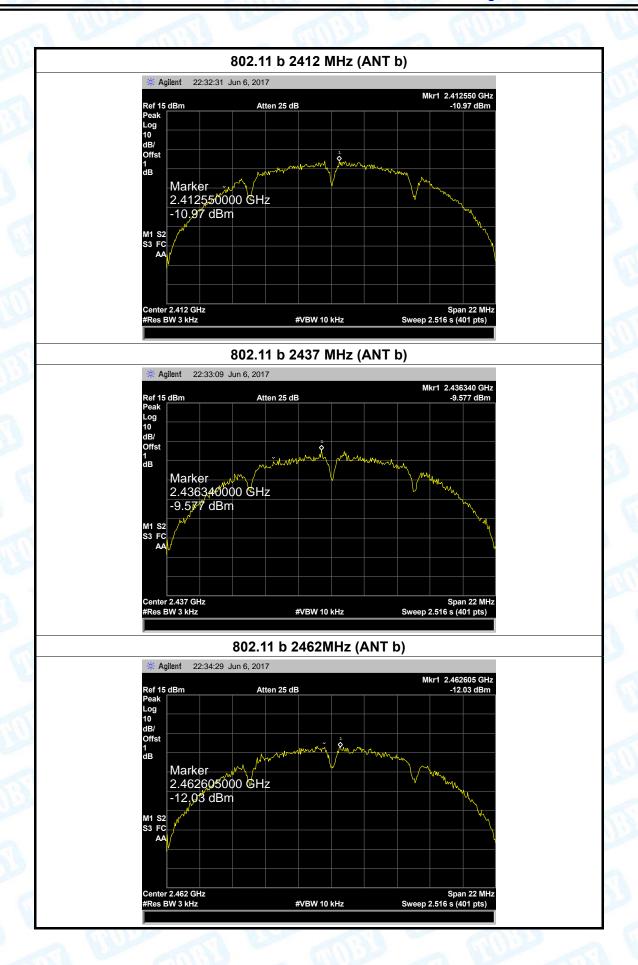


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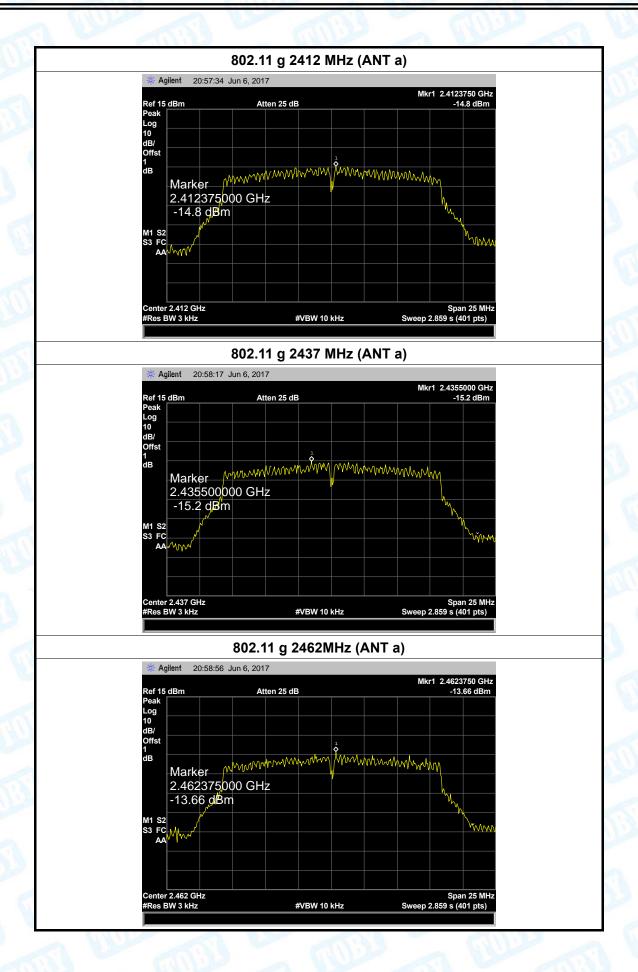


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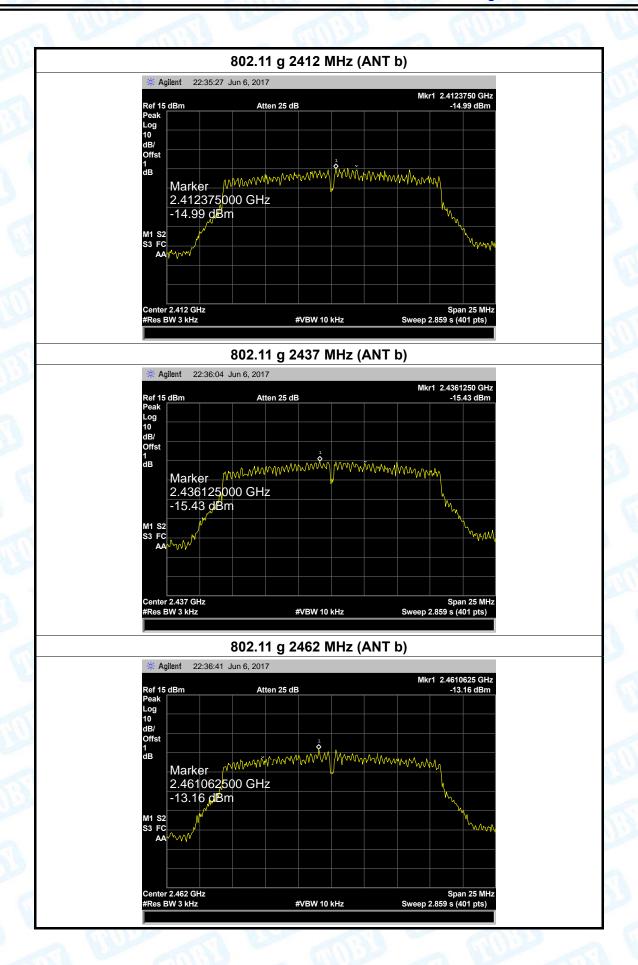


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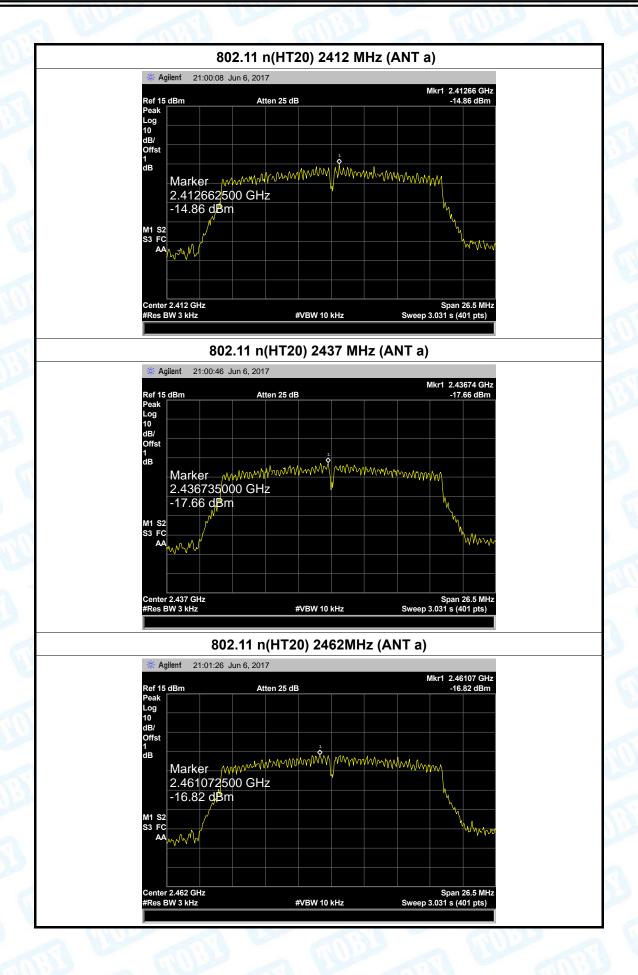


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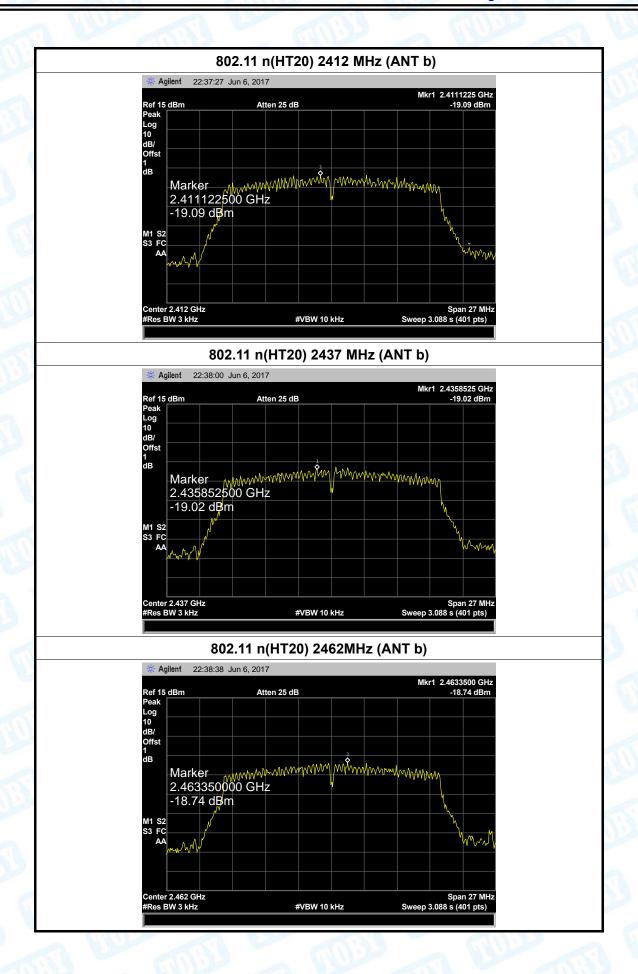


**TOBY** 



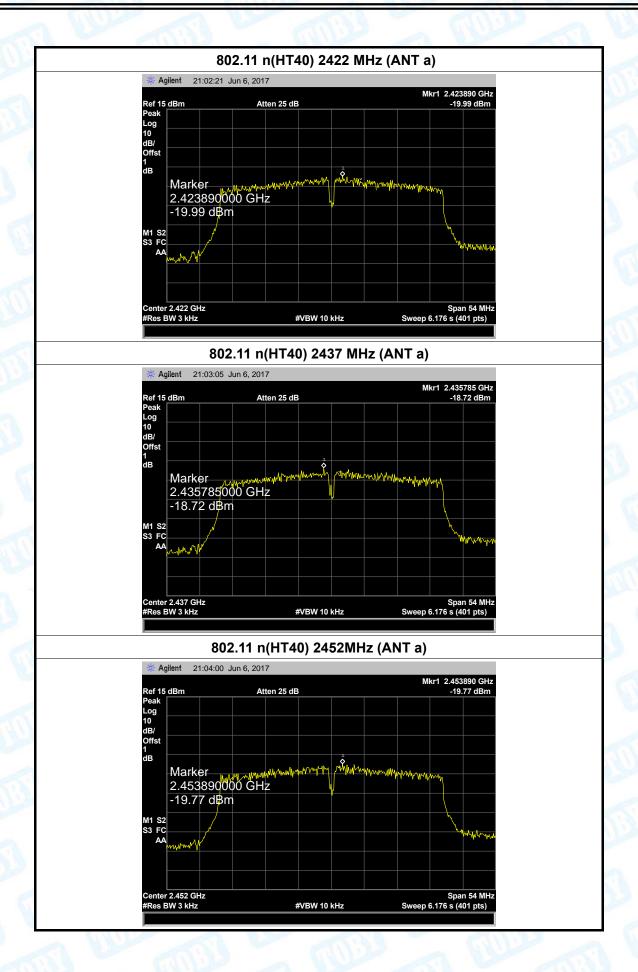


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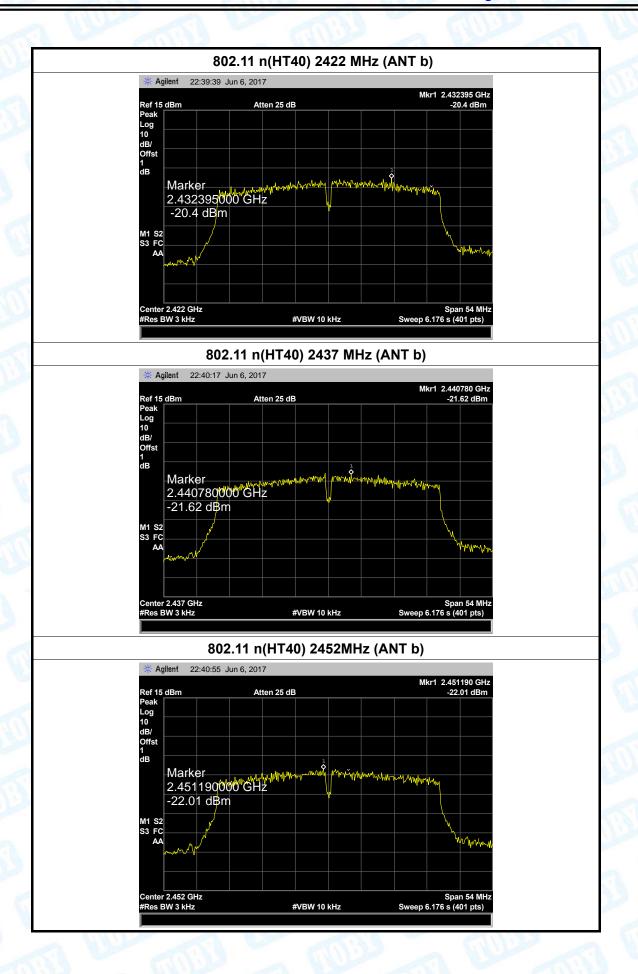


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# 10. Antenna Requirement

# 10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

## 10.1.2 Requirement

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

#### 10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 1 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### Result

The EUT antenna is a PCB Antenna. It complies with the standard requirement.

	Antenna Type
AUT 12	▼ Permanent attached antenna
ann	□ Unique connector antenna
1	□ Professional installation antenna

----END OF REPORT----