

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC156035

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# **FCC Radio Test Report** FCC ID: 2AEP6XM-JPR2-R

# **Original Grant**

TB-FCC156035 Report No.

HangZhou XiongMai Technology CO., LTD **Applicant** 

**Equipment Under Test (EUT)** 

**EUT Name** Home Robot Camera

Model No. XM-JPR2-R

Series Model No. Please see the page 4

**Brand Name** XM

**Receipt Date** 2017-06-15

2017-06-16 to 2017-06-26 **Test Date** 

**Issue Date** 2017-06-27

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

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

**PASS Conclusions** 

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 : HangZhou XiongMai Technology CO., LTD

**Address**: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road,

YinHu Street, Hangzhou, China

Manufacturer : HangZhou XiongMai Technology CO., LTD

Address: 9th Floor, Building 9, Yinhu Innovation Center, No.9 FuXian Road,

YinHu Street, Hangzhou, China

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

EUT Name		Home Robot Camera			
Models No.		XM-JPR2-R, XM-R2-RX, XM-R2-R, XM-JPR2-RX, XM-JPR13-RX, XM-JPR13-R, 13-R, R2-R, XM-JPR1-R, XM-R1-R, R1-R, XM-R13-R			
Model Difference	:	All models are identical in the same PCB layout interior structure and electrical circuits, The only difference is resolution and brand.			
33	N	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)		
Product		RF Output Power:	802.11b: 17.22dBm 802.11g: 17.74dBm 802.11n (HT20): 16.28dBm 802.11n (HT40): 14.25dBm		
Description		Antenna Gain:	3dBi Internal Antenna		
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 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:up to 150Mbps		
Power Supply		DC Voltage supplied by	y AC/DC Adapter.		
Power Rating	:	AC/DC Adapter (BT-TC-015): Input: AC 100~240V, 50/60Hz, 0.3A. Output: DC 5V, 1.5A.			
Connecting I/O Port(S)	:	Please refer to the User'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.



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

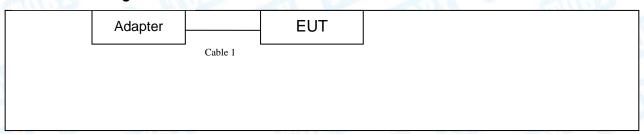
(3) Channel List:

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)						

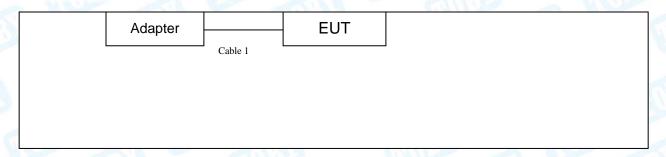
(4) The Antenna information about the equipment is provided by the applicant.

# 1.3 Block Diagram Showing the Configuration of System Tested

## **Normal Working Mode**



#### **TX Mode**



# 1.4 Description of Support Units

Equipment Information						
Name Model FCC ID/VOC			Manufacturer	Used "√"		
A STATE OF		10Rm	CHO	1		
	Cable Information					
Number	Shielded Type	Ferrite Core	Length	Note		
Cable 1	NO	NO	2.0M			



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# 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 Normal Working with 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 (6.5 Mbps) 802.11n (HT40) Mode: MCS 0 (13 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 portable 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 Version		N/A	
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

# 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 %.

and the second s		
Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
	Level Accuracy:	WY STATE OF THE ST
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dedicted Emission	Level Accuracy:	. 4 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	. 4. 40 dD
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Dadiated Emission	Level Accuracy:	. 4 20 dD
Radiated Emission	Above 1000MHz	±4.20 dB



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## 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	t 15 Subpart C(15.247)/ RSS 247	Issue 1	
Standa	rd Section	Test Item	ld	Remark
FCC	IC	rest item	Judgment	
15.203	1	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
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

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

N/A is an abbreviation for Not Applicable.



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# 3. Test Equipment

Conducte	d Emission Te	st			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 21, 2016	Jul. 20, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 21, 2016	Jul. 20, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 21, 2016	Jul. 20, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 21, 2016	Jul. 20, 2017
Radiation	Emission Tes	t			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 21, 2016	Jul. 20, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 21, 2016	Jul. 20, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.25, 2017	Mar. 24, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.24, 2017	Mar. 23, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.25, 2017	Mar. 24, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	Conducted Em	ission			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 21, 2016	Jul. 20, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 21, 2016	Jul. 20, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 21, 2016	Jul. 20, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 21, 2016	Jul. 20, 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

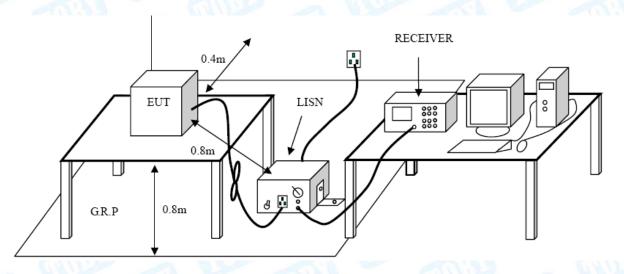
#### **Conducted Emission Test Limit**

	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.

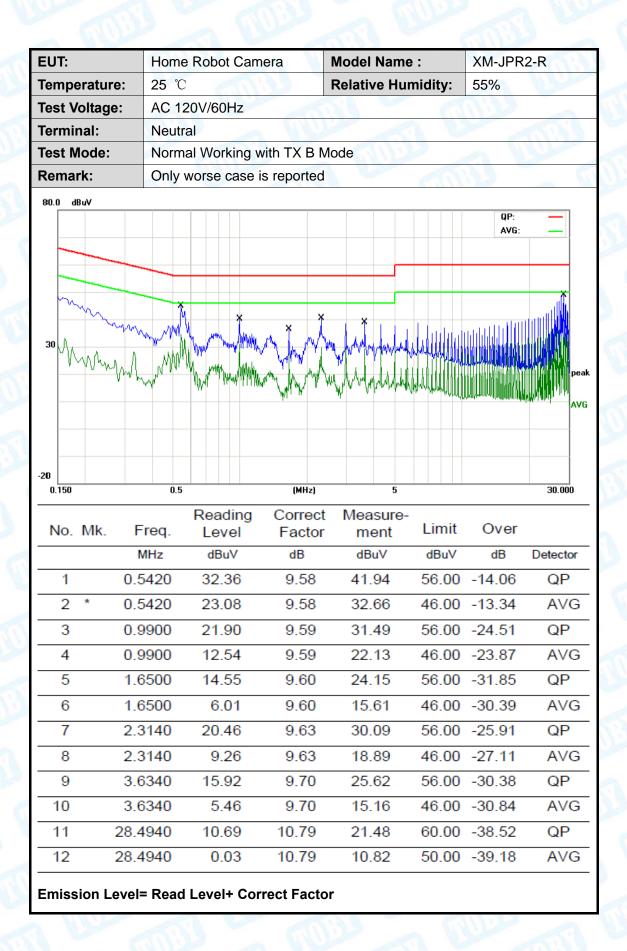


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EUT:	Home Robot Camera	Model Name :	XM-JPR2-R
Temperature:	25 ℃	Relative Humidi	ty: 55%
Гest Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Normal Working with	TX B Mode	
Remark:	Only worse case is re	ported	(M:33)
30 ABW			QP: — AVG: — Pe
0.150 No. Mk. Fr		orrect Measure- factor ment Li	30.000 mit Over
М	Hz dBuV	dB dBuV d	BuV dB Detector
1 0.54	420 28.52	9.60 38.12 56	6.00 -17.88 QP
2 * 0.5	420 23.13	9.60 32.73 46	6.00 -13.27 AVC
3 0.9	780 15.37	9.60 24.97 56	6.00 -31.03 QP
4 0.9	780 9.69	9.60 19.29 46	6.00 -26.71 AVC
5 1.63	300 12.32	9.61 21.93 56	6.00 -34.07 QP
6 1.63	300 6.42	9.61 16.03 46	6.00 -29.97 AVC
			6.00 -28.40 QP
			6.00 -24.48 AVG
			3.00 -32.59 QP
		,,,	02.00 0(1
9 3.59			5 00 -28 52 A\/C
9 3.59	900 7.81	9.67 17.48 46	6.00 -28.52 AVO



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EUT:	Home Robot Can	nera	Model Name :	XM-JF	R2-R
Temperature:	25 ℃	30	Relative Humidity	y: 55%	ABOVE
Test Voltage:	AC 240V/60Hz		51 - 6	THE STATE OF THE S	
Terminal:	Line	I THU			
Test Mode:	Normal Working	with TX B M	ode		RUL
Remark:	Only worse case	is reported		1130	
80.0 dBuV					
				QP: AVG:	
					X
May May May	X	. x	* .	. ntul	
30	Township My manufactured and	my John	HILLIAN MARK		
wwww	was saled to the sales of the s				peak
	uh M. Jake.	, M <sup>n</sup> ,	wh a A a b day treditiff		AVG
		1			WHITEIRE
-20					
0.150	0.5	(MHz)	5		30.000
	Reading	Correct	Measure-		
No. Mk. F	req. Level	Factor	ment Limi	t Over	
V	MHz dBuV	dB	dBuV dBu\	/ dB	Detector
1 0.5	5500 28.23	9.60	37.83 56.0	0 -18.17	QP
2 * 0.5	5500 21.74	9.60	31.34 46.0	0 -14.66	AVG
3 0.9	9980 20.01	9.60	29.61 56.0	0 -26.39	QP
4 0.9	9980 13.19	9.60	22.79 46.0	0 -23.21	AVG
5 1.6	6660 17.80	9.61	27.41 56.0	0 -28.59	QP
6 1.6	6660 9.76	9.61	19.37 46.0	0 -26.63	AVG
7 2.3	3340 19.49	9.62	29.11 56.0	0 -26.89	QP
	3340 13.27	9.62		0 -23.11	AVG
	6660 15.31	9.67		0 -31.02	QP
	6660 10.54	9.67		0 -25.79	AVG
				0 -33.25	
		10.77			QP
12 28.0	380 1.59	10.77	12.36 50.0	0 -37.64	AVG
Emission Level	= Read Level+ Co	rrect Factor	r		



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EUT:	Home Robot Camera	Model Name :	XM-JPR2-R						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	tage: AC 240V/60Hz								
Terminal:	ninal: Neutral								
Test Mode:	Normal Working with TX	( B Mode	- William						
Remark:	Only worse case is repo	orted	133						
30 dBuV		**************************************	QP: — AVG: — Pea						
0.150 No. Mk. Fr	Reading Corr	1.5	30.000 Over						
	eq. Level Fac Hz dBuV dB	to ment	dB Detector						
1 * 0.59			-14.32 QP						
2 0.5			-15.36 AVG						
3 0.9			-25.28 QP						
4 0.9			-25.60 AVG						
5 2.2			-26.38 QP						
6 2.20			-27.79 AVG						
	579 20.31 9.6		-26.02 QP						
8 3.0			-25.58 AVG						
9 11.29			-40.67 QP						
10 11.2			-40.07 QF -39.98 AVG						
11 27.9			-39.96 AVG						
12 27.9			-32.35 QP -35.74 AVG						
	= Read Level+ Correct F		30.74 AVO						



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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 (9 kHz~1000 MHz)

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)

Frequency	Distance of 3m (dBuV/m)			
(MHz)	Peak	Average		
Above 1000	74	54		

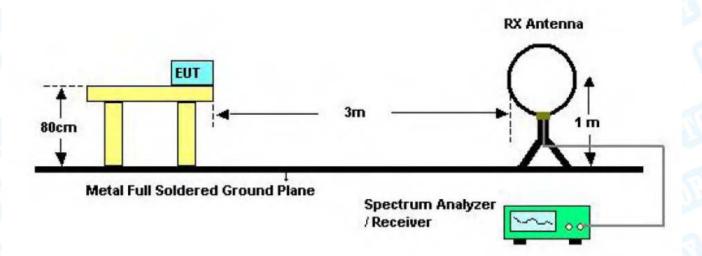
#### Note:

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

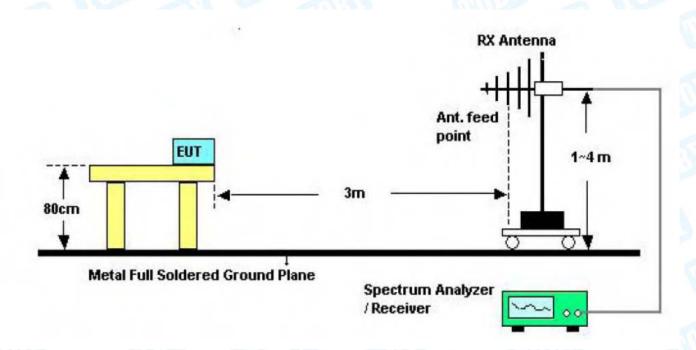


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# 5.2 Test Setup



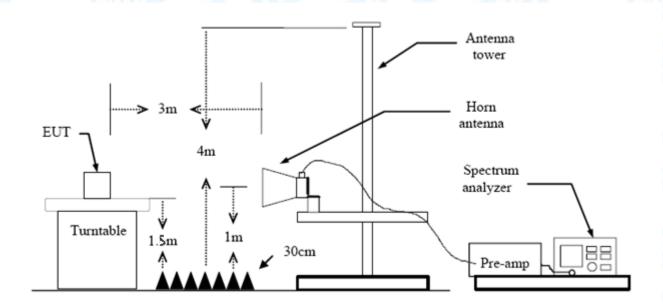
Below 30MHz Test Setup



Below 1000MHz Test Setup



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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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## 9KHz~30MHz

From 9KHz to 30MHz: 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

EUT	1		Ho	ome	Ro	bot	Came	era	Model:		XI	M-JPR	22-R
Tem	peratu	ıre:	25	25 ℃				Relative Humidity:			55%		
Test	t Volta	ge:	AC	AC 120V/60HZ									
Ant.	Pol.		Но	Horizontal						137			
Test	Mode	<b>)</b> :	TX	BI	Mod	de 2	412N	lHz	1300			B. San	
Ren	nark:		Or	nly v	wors	se ca	ase is	reported		DHII.			1 1
80.	0 dBuV/	m											
										(RF)FC	C 15C 3	A Radiatio	
									4 5 8 8			Margin -	6 dB
									<b>₹</b>		6		
30						_		1 X	ĂΜ	~~~	Å	. A	أنديا
								garay palaha/Mad pany	/ <b>'</b>	and Mary how	July Mary	Manyora da La	Alleria properties
	148 Marker Street		۸. ۸				Jan Jan	" " V					
	"	Mary May may	<b>\</b> W\	1/M/M/M	yeallerin	HARLA, ARPHYAN	Wash.						
-20 3	0.000	40 !	50 6	io 7	70 80	D		(MHz)		300 400	500	600 700	1000.0
	0.000	40 !	50 6	SO 7			ina				500	600 700	1000.0
31					Re	eadi		Correct	Measure			600 700 Over	1000.0
31	0.000 D. Mk	. F	req.		Re	eadi .eve	el	Correct Factor	Measure ment	- Limit	(	Over	
No		. F	req.		Re	eadi .eve dBu\	el V	Correct Factor	Measure ment dBuV/m	Limit	( m	Over dB	Detect
No.		. F	req. //Hz .328	66	Re L	eadi eve dBu\ 6.5	el / / 6	Correct Factor dB/m -21.86	Measure ment dBuV/m 24.70	Limit dBuV//	m 0 -	Over dB 18.80	Detect
1 2		. F	req. //Hz .328	66	Re L	eadi eve dBu\ 6.5	el / 66 .7	Correct Factor dB/m -21.86 -20.24	Measure ment dBuV/m 24.70 27.23	Limit dBuV// 43.50 43.50	m 0 -	Over dB	Detect QF QF
No.		. F	req. //Hz .328	66	Re L	eadi eve dBu\ 6.5	el / 66 .7	Correct Factor dB/m -21.86	Measure ment dBuV/m 24.70	Limit dBuV//	m 0 -	Over dB 18.80	Detect QF QF
1 2		. F	req. MHz .328 .007	66 74 88	4 4 5	eadi eve dBu\ 6.5	6 7 7	Correct Factor dB/m -21.86 -20.24	Measure ment dBuV/m 24.70 27.23	Limit dBuV// 43.50 43.50	m 0 - 0 -	Over dB 18.80 16.27	Detect QF QF
1 2 3	o. Mk	. F 126. 157.	req. //Hz .328 .007 .892	66 4 8 9	4 4 5	eadi eve dBu\ 6.5 7.4	66 7 56 6	Correct Factor dB/m -21.86 -20.24 -19.87	Measure ment dBuV/m 24.70 27.23 33.08	Limit dBuV/ 43.50 43.50 43.50	0 - 0 - 0 -	Over dB 18.80 16.27	Detect QF QF
1 2 3 4	o. Mk	. F 126. 157. 197. 246.	req. MHz .328 .007 .892 .814	66 4 8 9 67	Re L 4 4 5 6 6	eadi eve dBu\ 6.5 7.4 2.9	6 7 5 6 6 6	Correct Factor dB/m -21.86 -20.24 -19.87 -17.56	Measure ment dBuV/m 24.70 27.23 33.08 43.60	Limit dBuV/ 43.50 43.50 43.50 46.00	0 - 0 - 0 -	Dver dB 18.80 16.27 10.42	Detect QP QP QP QP



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EUT:	Home Robot Camera Model:				XM-JPR2-R		
Temperature:	25 ℃	R	elative Humidity	dity: 55%			
Test Voltage:	AC 120V/60HZ	-	2.0	CIII	13.0		
Ant. Pol.	Vertical	A LAND		63			
Test Mode:	TX B Mode 241	2MHz	Will Do		N. HA	Message	
Remark:	Only worse case	e is reported	1	MIN.			
80.0 dBuV/m	<u>'</u>						
30		2		REJECC 15C :	Margin -6 c	IB	
-20 30.000 40 50	60 70 80	(MHz)	300 4	100 500	600 700	1000.000	
No. Mk. Fr	Reading eq. Level	Correct Factor	Measure- ment Li	mit	Over		
М	Hz dBuV	dB/m	dBuV/m dE	BuV/m	dB	Detector	
1 50.0	566 46.41	-24.07	22.34 4	0.00	-17.66	QP	
2 147.4	4036 51.87	-20.94	30.93 4	3.50	-12.57	QP	
3 * 242.5	5253 60.30	-17.77	42.53 4	6.00	-3.47	QP	
4 261.0	0583 55.13	-17.15	37.98 4	6.00	-8.02	QP	
5 501.	1790 47.04	-10.82	36.22 4	6.00	-9.78	QP	

\*:Maximum data x:Over limit !:over margin

601.4265

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

48.12

-8.49

39.63

46.00

-6.37

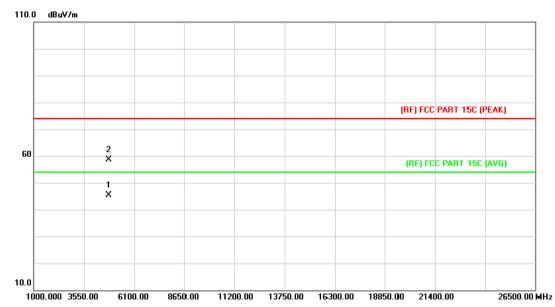
QΡ



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#### **Above 1GHz**

EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2412MHz						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

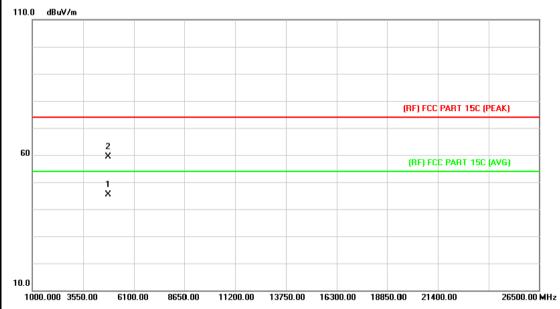


No.	Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.424	34.28	11.21	45.49	54.00	-8.51	AVG
2		4823.492	47.52	11.21	58.73	74.00	-15.27	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2412MHz	TX B Mode 2412MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
440.0 10.111							

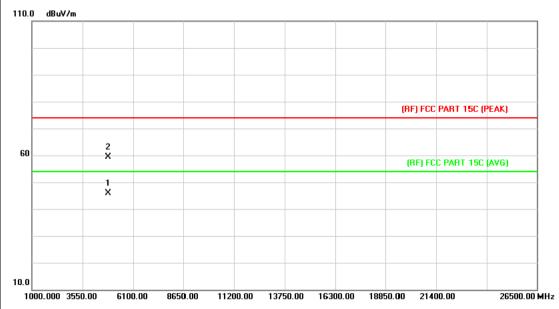


No.	. M	k.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4	823.062	34.16	11.21	45.37	54.00	-8.63	AVG
2		4	824.604	48.15	11.21	59.36	74.00	-14.64	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	<b>25</b> ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2437MHz	MILES				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

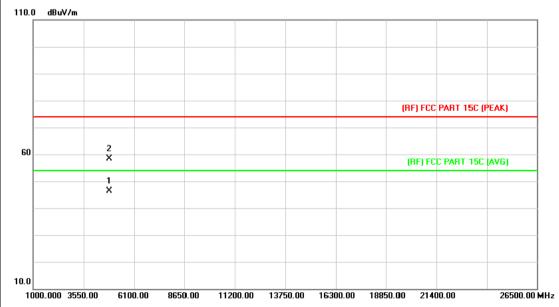


No	o. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.324	34.46	11.34	45.80	54.00	-8.20	AVG
2		4873.392	48.00	11.34	59.34	74.00	-14.66	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2437MHz		THE PARTY OF THE P				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.	prescribed limit.					

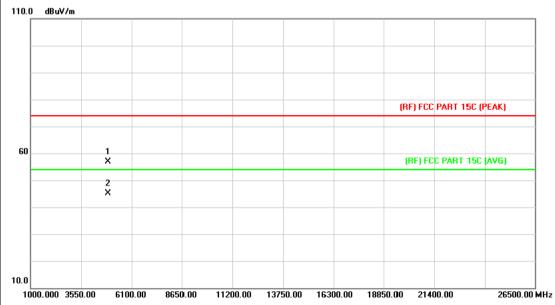


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	_
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.110	35.12	11.34	46.46	54.00	-7.54	AVG
2		4873.194	47.06	11.34	58.40	74.00	-15.60	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX B Mode 2462MHz						
Remark:	No report for the emissio	No report for the emission which more than 10 dB below the					
	prescribed limit.						
i							

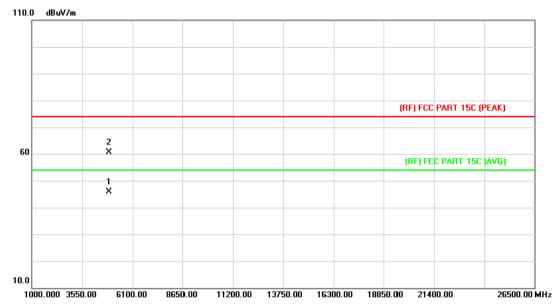


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.864	45.43	11.46	56.89	74.00	-17.11	peak
2	*	4923.864	33.69	11.46	45.15	54.00	-8.85	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX B Mode 2462MHz						
Remark:	No report for the emissio	No report for the emission which more than 10 dB below the					
	prescribed limit.						

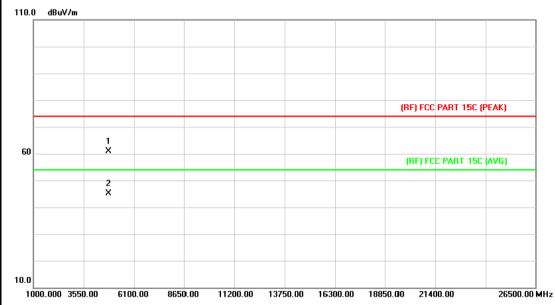


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.684	34.52	11.46	45.98	54.00	-8.02	AVG
2		4924.988	49.16	11.46	60.62	74.00	-13.38	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX G Mode 2412MHz		A VIII			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

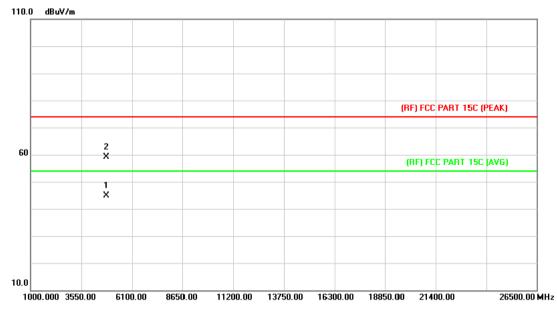


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.564	49.70	11.21	60.91	74.00	-13.09	peak
2	*	4824.580	33.81	11.21	45.02	54.00	-8.98	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2412MHz	WILLIAM				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					
440.0 10.1/1						

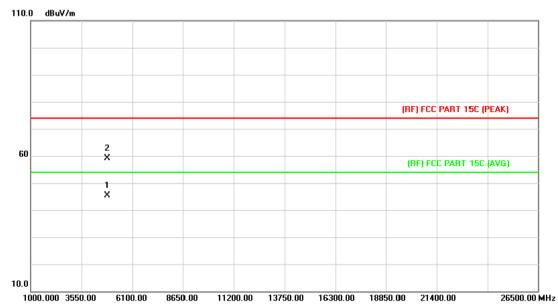


No.	Mk.	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.736	33.76	11.21	44.97	54.00	-9.03	AVG
2		4824.920	47.80	11.21	59.01	74.00	-14.99	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2437MHz	WIII DE	A LIVE			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

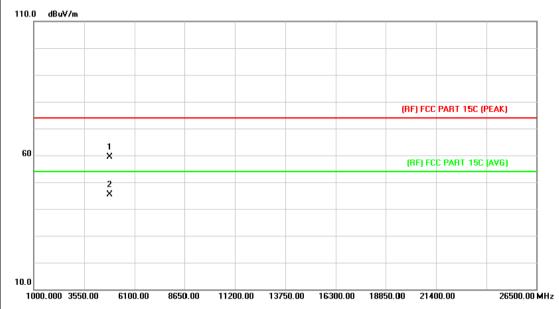


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.422	34.10	11.34	45.44	54.00	-8.56	AVG
2		4873.682	47.86	11.34	59.20	74.00	-14.80	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2437MHz	MIDS	THE PARTY OF THE P			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

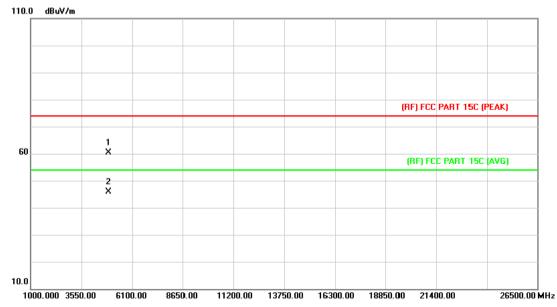


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.378	48.01	11.34	59.35	74.00	-14.65	peak
2	*	4875.000	34.08	11.34	45.42	54.00	-8.58	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX G Mode 2462MHz							
Remark:	Remark: No report for the emission which more than 10 dB below the prescribed limit.							
440.0 ID.W.	prescribed limit.							

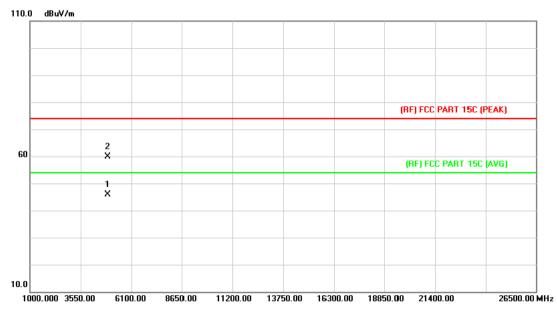


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.396	48.89	11.46	60.35	74.00	-13.65	peak
2	*	4923.840	34.50	11.46	45.96	54.00	-8.04	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical					
Test Mode:	TX G Mode 2462MHz	WIII DE	A LIVE			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

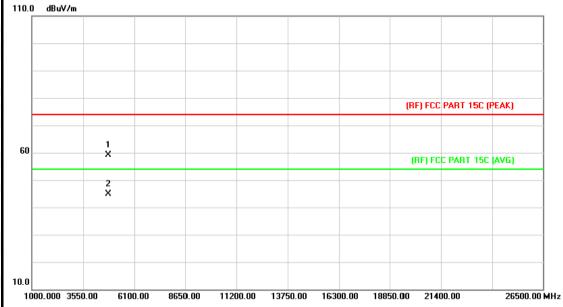


N	lo.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4923.948	34.51	11.46	45.97	54.00	-8.03	AVG
2			4924.384	48.47	11.46	59.93	74.00	-14.07	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT20) Mode 2412M	Hz						
Remark:	No report for the emission	which more than 10 de	B below the					
	prescribed limit.							
110.0 dRuV/m	110.0 dB <sub>0</sub> V/m							

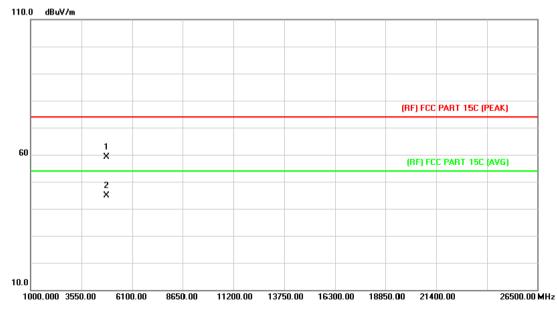


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.416	47.81	11.21	59.02	74.00	-14.98	peak
2	*	4825.000	33.78	11.21	44.99	54.00	-9.01	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ						
Ant. Pol.	Vertical	Vertical						
Test Mode:	TX N(HT20) Mode 2412M	1Hz	THE PARTY OF THE P					
Remark:	Remark: No report for the emission which more than 10 dB below the prescribed limit.							

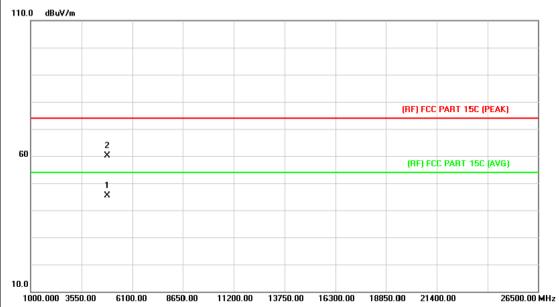


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.288	47.99	11.21	59.20	74.00	-14.80	peak
2	*	4824.896	33.74	11.21	44.95	54.00	-9.05	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2437N	1Hz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
	prescribed limit.						

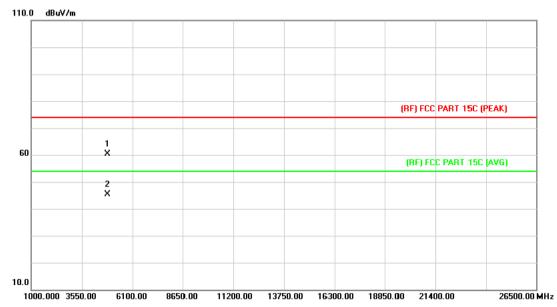


No	o. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.210	34.09	11.34	45.43	54.00	-8.57	AVG
2		4873.890	48.71	11.34	60.05	74.00	-13.95	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT20) Mode 2437M	Hz	THE PARTY OF THE P			
Remark:	No report for the emission prescribed limit.	which more than 10 dE	3 below the			

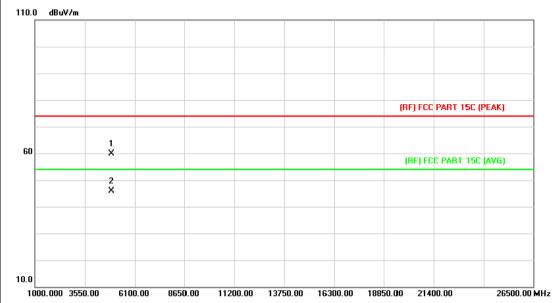


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.134	48.99	11.34	60.33	74.00	-13.67	peak
2	*	4874.580	34.11	11.34	45.45	54.00	-8.55	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal	O					
Test Mode:	TX N(HT20) Mode 2462MH	z	2				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						

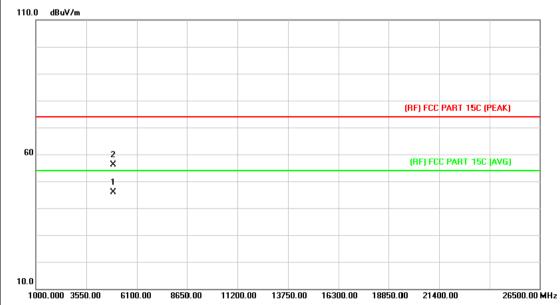


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.232	48.46	11.46	59.92	74.00	-14.08	peak
2	*	4924.580	34.50	11.46	45.96	54.00	-8.04	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2462MH	z	a William				
Remark:	No report for the emission w	No report for the emission which more than 10 dB below the					
	prescribed limit.						

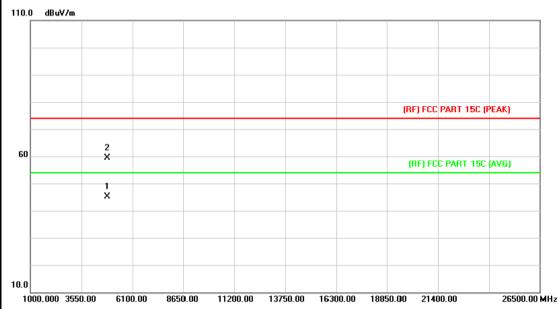


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.210	34.51	11.46	45.97	54.00	-8.03	AVG
2		4924.048	44.70	11.46	56.16	74.00	-17.84	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT40) Mode 2422M	1Hz	a mu				
Remark:							

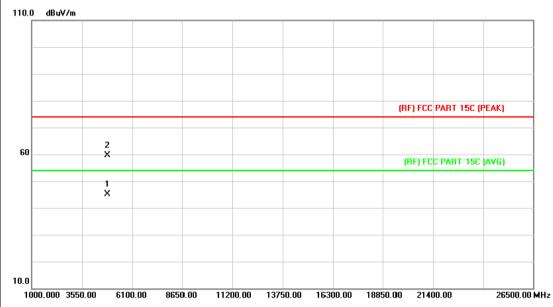


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.000	33.93	11.26	45.19	54.00	-8.81	AVG
2		4844.824	48.05	11.26	59.31	74.00	-14.69	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	25 °C Relative Humidity: 55%				
Test Voltage:	AC 120V/60HZ					
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT40) Mode 2422MH	z (N) DE	J. Hilliam			
Remark:						

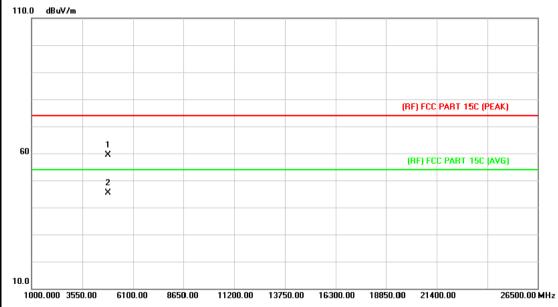


No	. Mk	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.526	33.94	11.26	45.20	54.00	-8.80	AVG
2		4843.928	48.30	11.26	59.56	74.00	-14.44	peak



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Home Robot Camera	Model:	XM-JPR2-R					
25 ℃	Relative Humidity:	55%					
AC 120V/60HZ	31 6	Tib.					
Horizontal	Horizontal						
TX N(HT40) Mode 2437M	Hz	THE PARTY OF THE P					
No report for the emission prescribed limit.	which more than 10 dE	3 below the					
	25 °C AC 120V/60HZ Horizontal TX N(HT40) Mode 2437M No report for the emission	25 °C Relative Humidity:  AC 120V/60HZ  Horizontal  TX N(HT40) Mode 2437MHz  No report for the emission which more than 10 dB					

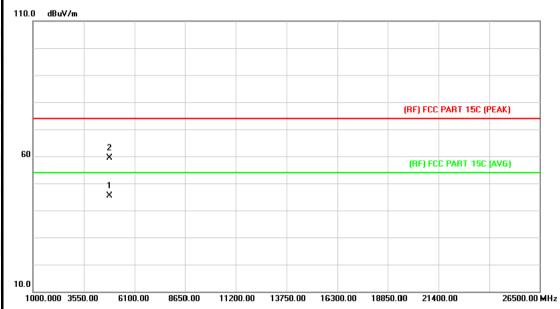


No	o. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.534	48.07	11.34	59.41	74.00	-14.59	peak
2	*	4874.474	34.08	11.34	45.42	54.00	-8.58	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		Time
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437N	1Hz	
Remark:	No report for the emission prescribed limit.	n which more than 10 de	3 below the
Remain.		i willon more than 10 di	Delow life

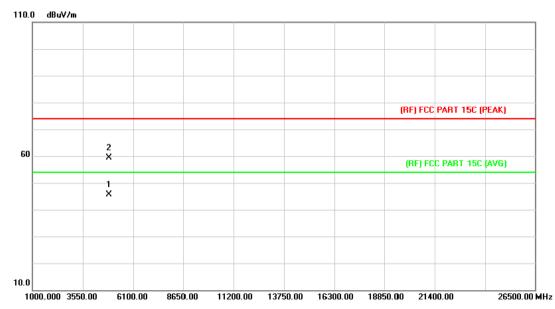


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.106	34.11	11.34	45.45	54.00	-8.55	AVG
2		4874.792	48.00	11.34	59.34	74.00	-14.66	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ		Tib					
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT40) Mode 2452N	1Hz	THE PARTY OF					
Remark:	No report for the emission prescribed limit.	which more than 10 dl	3 below the					

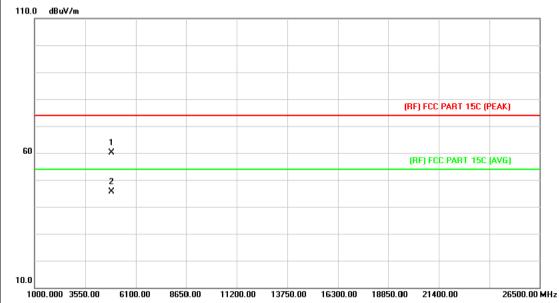


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.314	34.29	11.41	45.70	54.00	-8.30	AVG
2		4904.128	47.87	11.41	59.28	74.00	-14.72	peak



Page: 46 of 91

EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		Tibe
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452	ИHz	
Remark:	No report for the emissio	n which more than 10 dl	B below the
	prescribed limit.		
			!



No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4904.448	48.74	11.41	60.15	74.00	-13.85	peak
2	*	4904.474	34.28	11.41	45.69	54.00	-8.31	AVG



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# 6. Restricted Bands Requirement

#### 6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

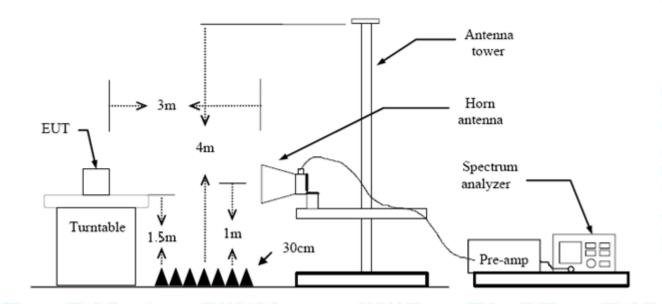
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance of 3m (dBuV/m)					
Band (MHz)	Peak	Average				
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.



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(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are 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

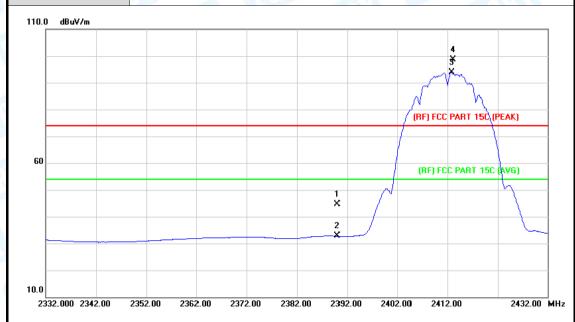
Please see the next page.



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# (1) Radiation Test

EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		ALL LAND
Test Mode:	TX B Mode 2412MHz		13
Remark:	N/A	W A VIV	



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.00	-0.27	44.73	74.00	-29.27	peak
2		2390.000	33.03	-0.27	32.76	54.00	-21.24	AVG
3	*	2412.800	94.05	-0.16	93.89	Fundamental	Frequency	AVG
4	X	2413.100	98.81	-0.16	98.65	Fundamental	Frequency	peak



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UT			Hom	e Ro	bot Ca	amera	M	Model:  Relative Humidity:			XM-JPR2-R 55%		
Гет	peratu	re:	25 °	C	CILLY.	(M)	R						
Test	Voltag	je:	AC 1	AC 120V/60HZ			1			(61)	11:30		
۹nt.	Pol.		Verti	Vertical							and the same		
Test	Mode	:	TX E	3 Mo	de 241	2MHz		6	11/10		a V		
Rem	nark:		N/A				51	R			30		
110.0	dBu∀/m												
60									1 X 2 X		PART 15C (PE		
10.0													
	27.000 23	. Fre	eq.	Le	ading evel	Corre Fact	or	me	sure- ent	Limit	Over	2427.00 MH	
_		MH			BuV	dB/m			ıV/m	dBuV/m		Detector	
1		2390.			6.32	-0.27			.05	74.00			
		2390.	.000	34	4.86	-0.27	<u> </u>	34	.59	54.00	-19.41	AVG	
2				- 0	7.53	-0.16	3	97	.37	Fundamer	ital Frequency	AVG	
2	*	2412.	.800	9	1.00								



Page: 51 of 91

EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ	501	The same of the sa
Ant. Pol.	Horizontal	C. C. C.	
Test Mode:	TX B Mode 2462MHz	MILDE	A HILL
Remark:	N/A		:35
110.0 dBuV/m			
	2		
	x x		
	V \		

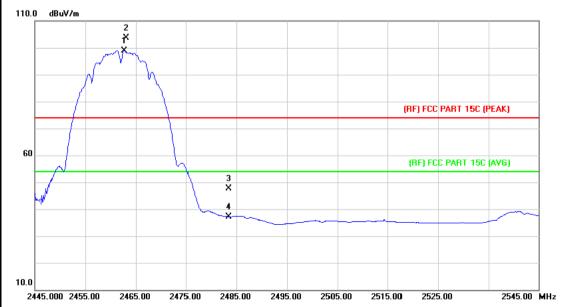
-		رسم	Juny Ju						
		/"					(RF) FCC	PART 15C (F	PEAK)
0							(RF) FC	C PART 15C	(AVG)
ŀ	$ \nearrow $			7	3 X		().		,
-	- کسر			\	4 ×				
.0									

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	93.85	0.09	93.94	Fundamental	Frequency	AVG
2	X	2463.000	98.61	0.09	98.70	Fundamental	Frequency	peak
3		2483.500	46.33	0.19	46.52	74.00	-27.48	peak
4		2483.500	34.83	0.19	35.02	54.00	-18.98	AVG



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EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		Till a
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		THE PARTY OF THE P
Remark:	N/A		133
110.0 dBuV/m	-		



No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	98.83	0.09	98.92	Fundamental	Frequency	AVG
2	X	2463.000	103.62	0.09	103.71	Fundamental	Frequency	peak
3		2483.500	47.41	0.19	47.60	74.00	-26.40	peak
4		2483.500	37.03	0.19	37.22	54.00	-16.78	AVG



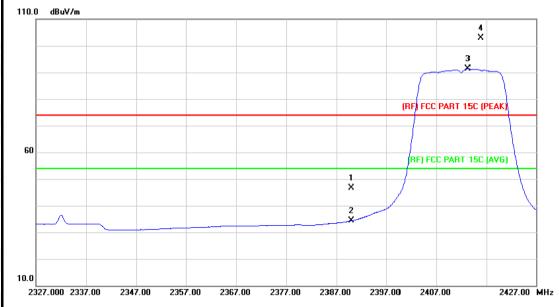
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EUT:			Hom	e Robot Ca	mera	Mode	el:		XM-JPR2-	R
Гетр	eratu	re:	25 °	C	AD T	Relat	ive Hu	midity:	55%	The second
Test \	/oltaç	je:	AC 1	20V/60HZ		Steel		CI	11.3.3	
۱nt. F	ol.		Horiz	zontal	A.R.			J W		
Test N	<b>Node</b>	:	TX	Mode 2412	2MHz	6	ME		0 W	A STATE OF THE PARTY OF THE PAR
Rema	rk:		N/A	1300		1			35	
110.0	dBuV/m									
									4 ×	
									X	
								(RF) FCC	PART 15C (PEAK	g
60										
_								(RF) FC	C PART 15C (AVE	i)
						1 ×				
						2				
-					+	×				
10.0										
2332.	.000 234	42.00 i	2352.00		72.00 2382.		2.00 24	02.00 241	2.00 2	2432.00 MI
No.	Mk.	. Fr	eq.	Reading Level	Correc Factor		asure- ent	Limit	Over	
		Mi	Ηz	dBuV	dB/m	dB	luV/m	dBuV/m	n dB	Detect
1		2390	.000	44.23	-0.27	43	3.96	74.00	-30.04	peal
2		2390	.000	32.91	-0.27	32	2.64	54.00	-21.36	AVG
	*	2/12	.400	88.20	-0.16	88	8.04	Fundamenta	al Frequency	AVG
3	-	2413	.400							



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EUT:	Home Robot Camera	Model:	XM-JPR2-R							
Temperature:	25 ℃	Relative Humidity:	55%							
Test Voltage:	AC 120V/60HZ	all a								
Ant. Pol.	Vertical	The state of the s								
Test Mode:	TX G Mode 2412MHz									
Remark:	N/A									
110.0 dBuV/m	110.0 dBuV/m									
			4							

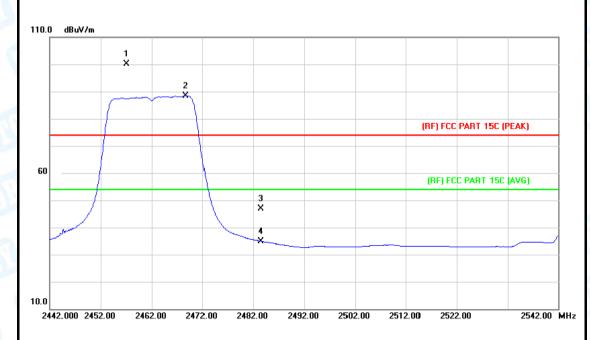


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.90	-0.27	46.63	74.00	-27.37	peak
2		2390.000	34.65	-0.27	34.38	54.00	-19.62	AVG
3	*	2413.300	91.50	-0.16	91.34	Fundamental F	requency	AVG
4	X	2415.900	102.96	-0.14	102.82	Fundamental F	requency	peak



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EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		THE PARTY OF
Remark:	N/A		:13 _ (1)



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2457.200	100.01	0.06	100.07	Fundamenta	l Frequency	peak
2	*	2468.700	88.38	0.12	88.50	Fundamenta	I Frequency	AVG
3		2483.500	46.70	0.19	46.89	74.00	-27.11	peak
4		2483.500	34.79	0.19	34.98	54.00	-19.02	AVG



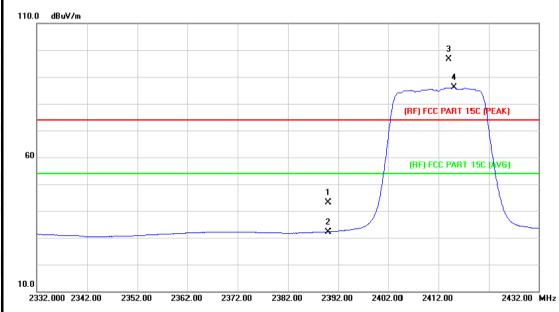
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EUT:		Hom	ne Ro	obot Ca	mera		Mode	el:			XM-JPI	R2-R	1
Temperatu	ıre:	25 °	С	CILI	33	ı	Relat	ive H	umidi	ty:	55%	AR	
Test Volta	ge:	AC 1	120V	//60HZ		M				FILE.	133		h.
Ant. Pol.		Verti	ical		B. B. A.			1		6	100	M.	
Test Mode	:	TX (	3 Мо	de 246	2MHz		6	Me			3 W		
Remark:		N/A		A STATE OF THE PARTY OF THE PAR		51	R			111	13		
110.0 dBuV/m													
		×											
		2 X											
		+							(BI	F) FCC F	PART 15C (PE	AK)	$\parallel$
									,		,	,	
60													
<u> </u>			+	3					(F	₹F) FCC	PART 15C (A	VG)	-
			$\forall$	×									
				4 X									-
													-
10.0													
			2477	r.00 24	87.00 249	7.00	2507.0	00 25	517.00	2527.	00	2547.00	Mi
2447.000 24	57.00 24	167.00											
	57.00 24	167.00											
2447.000 24				ading	Corre		Meas		Lin	nit.	Over		
	Free	q.	Le	evel	Corre Facto		me	nt	Lin		Over		
2447.000 24		q.	Le					nt		nit uV/m	Over	Dete	ecto
2447.000 24	Free	q.	Le di	evel	Facto		me	nt V/m	dBı	ıV/m			ecto
2447.000 24 No. Mk.	Free	q. z	10	evel BuV	Facto dB/m		me dBu\	nt V/m .27	dBu	uV/m mental	dB	pe	
No. Mk.	Free MHz 2465.8	q. z 800	10 93	evel BuV 05.17	dB/m 0.10	or	me dBu\	nt V/m .27 54	dBu Fundar	uV/m mental	dB	pe A'	eal



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EUT:	Home Robot Camera	Model:	XM-JPR2-R					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ		133					
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT20) Mode 2412MH	z	J. Hills					
Remark:	N/A		13 0					



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.40	-0.27	43.13	74.00	-30.87	peak
2		2390.000	32.50	-0.27	32.23	54.00	-21.77	AVG
3	X	2414.100	96.90	-0.16	96.74	Fundamental	Frequency	peak
4	*	2415.200	86.23	-0.15	86.08	Fundamental	Frequency	AVG



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EUT:				e Rol				Model:				XM-JPR2-R			
empe	ratu	re:	25 °C		TIME		ı	Relat	ive Hu	ımidi	ty:	55%	1		J. P
est V	oltag	e:	AC 1	20V/	60HZ			Sign.			GUI	1133			
nt. P	ol.		Vertic	cal		V	All				63		4		
est M	ode:		TX N	(HT2	0) Mo	de 24	12MHz	Z	11/12	100		2			
Remai	k:		N/A	10	No.		1	/ /				13			ķ
10.0 d	BuV/m														_
												4 ×			
												3			
												×_	-		
										(	RF) FCC I	PART 15C	(PEAK)	<u> </u>	
60														1_	
									1		(HF) FCC	PART 150	(AVG)	+	-
									×	$- \mid J$					
	Λ								2	_					
															1
0.0	00 233	7.00	47.00	2357.0		67.00	2377.00	2387		207.00	2407.			27.00	<u> </u>
								2301		2397.00					
				Rea	ading		rrect		sure	-					
No.	Mk.	. Fre	eq.		ading evel	Coi	rrect actor	Mea		-	mit	Ove	er		
No.	Mk.	. Fre		Le		Coi Fa		Mea m	asure	- Li	mit BuV/m	Ove dB		Dete	cto
No.	Mk.		z	Le di	vel	Coi Fa	actor	Mea m	asure ent	- Li				Dete pe	
1	Mk.	МН	000	Le dE 48	evel BuV	Coi Fa dB -0.	actor 8/m	Mea m dB	asure- ent uV/m	- Li di	BuV/m	dB	68		ak
No. 1 2 3	Mk.	MH 2390.	000 000	48 33	evel BuV B.59	Cor Fa dB -0.	actor 3/m .27	Mea m dB	asure- ent uV/m 3.32	- Li dl 7	3uV/m (4.00 (4.00	dB -25.	68 29	pe	ak /G



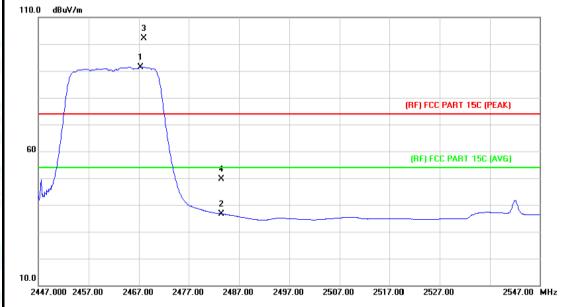
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EUT	•		Home	Robot	Camera	Mo	del:		XM-JPR	2-R
Tem	perati	ıre:	25 ℃		THE STATE	Re	lative I	Humidity:	55%	
Test	Volta	ge:	AC 1	20V/60I	ΗZ	STATE OF		GIL	1133	
Ant.	Pol.		Horiz	ontal	> W	U. Salar		av		
Test	Mode	):	TX N	(HT20)	Mode 2462	MHz			a W	The same
Rem	ark:		N/A	ABA		51	Garage		13	
110.0	dBuV/ı	n								
60			1 X	2 ×	3 X 4				PART 15C (PEAK	
10.0	42.000 2	450.00	2462.00	2472.00	2482.00 24	92.00 25	02.00	2512.00 2522.		2542.00 MH
No	o. Mk	. Fre	eq.	Readir Leve	_		asure- nent	Limit	Over	
		MH	Ηz	dBuV	dB/m	di	BuV/m	dBuV/m	dB	Detecto
1	*	2467.	.300	86.18	0.11	8	86.29	Fundamenta	I Frequency	AVG
	X	2468.	.200	97.11	0.12	9	7.23	Fundamenta	I Frequency	peak
2				45.92	0.19	4	6.11	74.00	-27.89	peak
2		2483.	.500	40.02						



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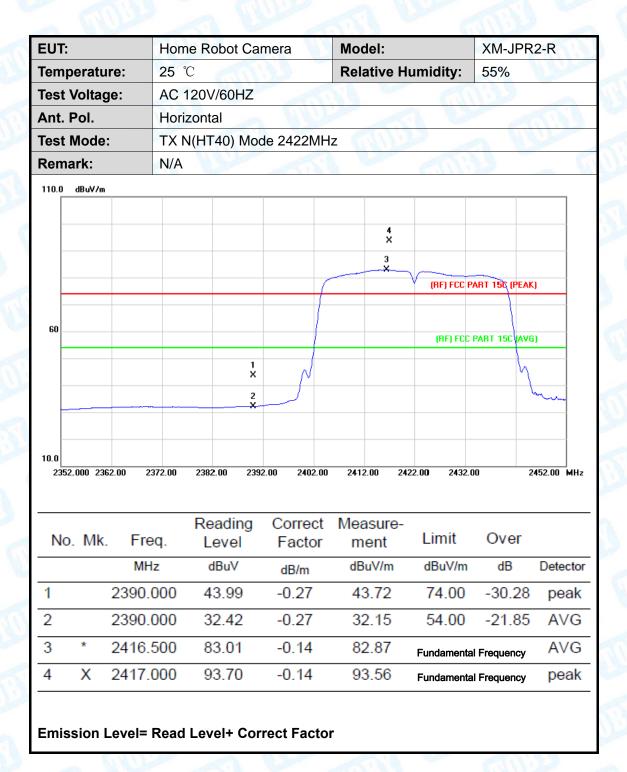
EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		Will a
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462	MHz	
Remark:	N/A		133
110.0 dBuV/m			
	3 X		
	•		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2467.300	91.36	0.11	91.47	Fundamental	Frequency	AVG
2		2483.500	36.48	0.19	36.67	54.00	-17.33	AVG
3	Χ	2468.000	102.12	0.11	102.23	Fundamental	Frequency	peak
4		2483.500	49.42	0.19	49.61	74.00	-24.39	peak



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EUT:			Hom	e Rob	ot Car	mera	Mod	del:		XM-JPR2	2-R
Гет	peratu	re:	25 °	C	M	33	Rela	ative F	lumidity:	55%	The same
Test	Voltag	e:	AC 1	20V/6	0HZ		J'E		61	11:33	
Ant.	Pol.		Verti	cal		D. H.					
Test	Mode:		TXN	I(HT40	) Mod	de 2422M	Hz	4110		- W	
Rem	ark:		N/A	RR	de					3.3	
110.0	dBuV/m										
60						4 X 2				PART 15C (PEAK	
	17.000 235	57.00 23	367.00	2377.00	238	7.00 2397.0	00 240	7.00 2	417.00 2427	7.00 24	147.00 MH
		F		Read	ding	Correc	t Mea	asure-		Over	
No	). Mk.	Fre MH:		Lev dBu		Factor dB/m		ent uV/m	Limit dBuV/m	n dB	Detecto
No 1	*		z		ı۷		dB		dBuV/m	dB dB	
1		MH	z 100	dBu	ı∨ 40	dB/m	dB 86	uV/m	dBuV/m	al Frequency	AVG
1 2 3	*	MH: 2415.1	z 100 000	dBu 86.4	ıV 40 15	dB/m -0.15	dB 86 33	uV/m 6.25	dBuV/m Fundament 54.00	al Frequency	AVG AVG



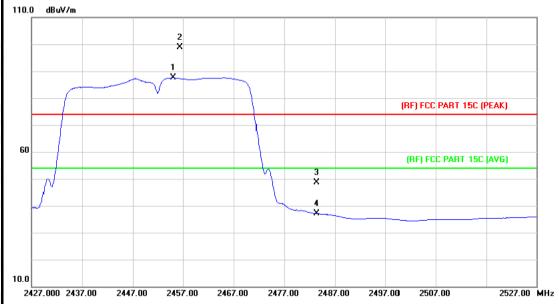
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EUT	:		Hom	ne Ro	bot Ca	ımera	N	lode	el:			XM-JPR2	-R	
Tem	peratu	ire:	25 '	°C		33	R	elat	ive H	umidity	<b>/</b> : !	55%		p P
Test	Voltag	ge:	AC	120V	/60HZ		50	1			THE P	1130		
Ant.	Pol.		Hori	zonta	al	11							M.	h
Test	Mode	:	1XT	V(HT	40) Mo	de 2452l	MHz	6	11/11	1)		a W		
Ren	nark:		N/A	1			51	X		61		13		V
110.0	dBuV/m													
			2 X											
-			1											
			<u> </u>	V						ſR	F) FCC F	ART 15C (PEA	.K1	
										, ,			•	1
60														
						+				(1	RF) FCC	PART 15C (AV	G)	
Ì	$\sqrt{}$					N		X						ĺ
	<i>J</i>					+ +		4						
-														1
														ļ
10.0														
24:	27.000 24	37.00 2	447.00	2457	.00 24	67.00 247	77.00	248	7.00	2497.00	2507.	00	2527.00	Mŀ
				Re	ading	Corre	ct	Mea	asure	)_				
N	o. Mk	Fre	eq.		evel	Fact			ent	Lin	nit	Over		
		MH	Z	d	BuV	dB/m		dB	uV/m	dBı	uV/m	dB	Dete	cto
1	*	2447.	500	82	2.93	0.01		82	2.94	Funda	mental	Frequency	AV	'G
2	Х	2448.	100	93	3.87	0.01		93	3.88			Frequency	pea	ak
3		2483.	500	45	5.47	0.19		45	5.66		.00	-28.34	pea	ak
4		2483.	500	34	4.20	0.19		34	4.39	54	.00	-19.61	AV	'G



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EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452M	Hz	
Remark:	N/A		133

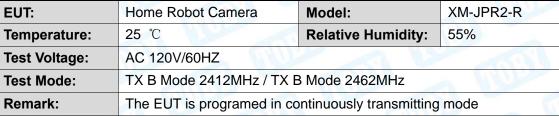


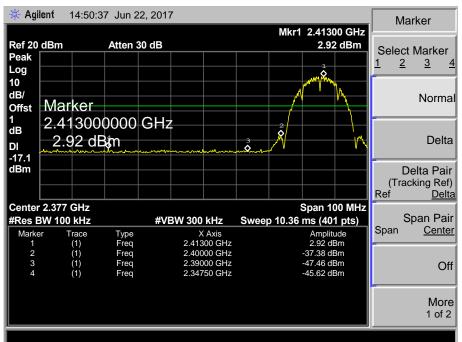
No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2455.000	87.50	0.05	87.55	Fundamental I	Frequency	AVG
2	X	2456.400	98.77	0.05	98.82	Fundamental	Frequency	peak
3		2483.500	48.53	0.19	48.72	74.00	-25.28	peak
4		2483.500	36.90	0.19	37.09	54.00	-16.91	AVG

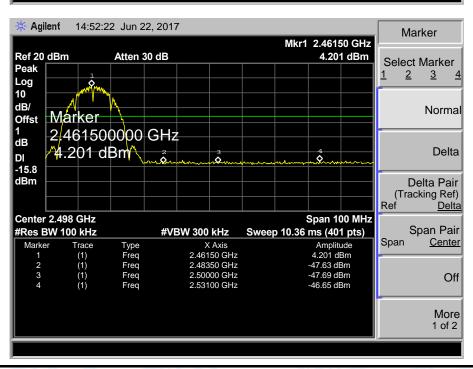


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## (2) Conducted Test









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EUT: Home Robot Camera XM-JPR2-R Model: Temperature: 25 ℃ **Relative Humidity:** 55% AC 120V/60HZ Test Voltage: Test Mode: TX G Mode 2412MHz / TX G Mode 2462MHz Remark: The EUT is programed in continuously transmitting mode \* Agilent 14:53:27 Jun 22, 2017 Marker Mkr1 2.41625 GHz Atten 30 dB -2.45 dBm Ref 20 dBm Select Marker 2 <u>3</u> Log 10 dB/ Normal Marker Offst 2.416250000 GHz dΒ -2.45 dBm <sup>4</sup> Delta DI -22.5 dBm Delta Pair (Tracking Ref) ef <u>Delta</u> Center 2.377 GHz Span 100 MHz #Res BW 100 kHz Span Pair #VBW 300 kHz Sweep 10.36 ms (401 pts) Span Center Type Freq Freq Freq Amplitude -2.45 dBm -39.16 dBm X Axis 2.41625 GHz 2.40000 GHz 2.39000 GHz 2.35400 GHz (1) (1) (1) (1) Off -46 62 dBm More 1 of 2 🔆 Agilent 14:54:22 Jun 22, 2017 Marker Mkr1 2.46375 GHz Ref 20 dBm Atten 30 dB -1.29 dBm Select Marker Peak 2 3 Log 10 dB/ Normal Marker Offst 2.463750000 GHz dΒ -1.29 dBm 🗼 ؤ <u>4</u> Delta DI -21.3 dBm Delta Pair (Tracking Ref) Delta Center 2.5 GHz Span 100 MHz Span Pair #Res BW 100 kHz #VBW 300 kHz Sweep 10.36 ms (401 pts) Span X Axis 2.46375 GHz Amplitude -1.29 dBm Center Marker 2.48350 GHz 2.50000 GHz -46.09 dBm Freq Freq -47.28 dBm Off More 1 of 2



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UT:		Home	Robo	ot Car	nera		Мо	del:			XI	M-JPR2
erature	:	<b>25</b> ℃			CA		Rel	ative	Humi	idity:	55	5%
Voltage:		AC 12	20V/6	0HZ		A	131			6		19
Mode:		TX N	HT20	) Mod	de 2412	2MHz	z / T)	X N(F	HT20)	Mode	24621	ЛHz
ark:				<u> </u>	ramed							
* Agil				22, 2017								
- Agii	.onc	17.00.1	o dun z	-2, 2017				Mkr1	1 2.4065	0 GHz	Mai	rker
Ref 20 Peak	dBm		Atten	30 dB					-4.77	dBm		Marker
Log									1		<u>1</u> 2	<u>3</u> <u>4</u>
10 dB/								ſ	-Quy	~~~ <u>_</u>		Norma
Offst 1	Ma		0000							$\longrightarrow$		TTOTTIC
dВ		0650 77 dE		GHz			,	2		$\overline{}$		Delta
DI -24.8	-4¢	, , ul	)    		~~~~		n <b>Q</b> n					Dena
dBm												elta Pair king Ref)
											Ref	Delta
Center #Res E				#VE	3W 300 kl	lz S	Sween		Span 10 ms (401		Sı	pan Pair
Marke 1		Trace	Type Freq		X A: 2.40650	(is			Amplitu	de	Span	Center
2 3		(1) (1) (1) (1)	Freq Freq		2.40000 2.40000 2.39000	GHz			-40.28 dB -47.92 dB	m 📗		0//
4		(1)	Freq									Off
					2.33200	GHz			-46.22 dB	m		
					2.33200	GHz			-46.22 dB	m		More
					2.33200	GHz			-46.22 dB	m		More 1 of 2
					2.33200	GHz			-46.22 dB	m		
A all	laué			20.47		GHz			-46.22 dB	m		
非 Agil	lent			22, 2017		GHz		Mkr1			Ma	
Ref 20						GHz		Mkr1	-46.22 dB	5 GHz		1 of 2
		14:56:1	0 Jun 2			GHz		Mkr1	1 2.4587	5 GHz		1 of 2
Ref 20 Peak Log 10			0 Jun 2			GHz		Mkri	1 2.4587	5 GHz	Select	1 of 2  rker  Marker  3 4
Ref 20 Peak Log 10 dB/	dBm Ma	14:56:1	0 Jun 2	30 dB		GHz		Mkr1	1 2.4587	5 GHz	Select	1 of 2 rker Marker
Ref 20 Peak Log 10 dB/ Offst 1	dBm Mai	14:56:1	0 Jun 2 Atten:			GHz		Mkr1	1 2.4587	5 GHz	Select	1 of 2  rker  Marker  3 4  Norma
Ref 20 Peak Log 10 dB/ Offst 1 dB	dBm Mai	14:56:1	0 Jun 2 Atten:	30 dB		GHz	4 🗴	Mkr1	1 2.4587	5 GHz	Select	1 of 2  rker  Marker  3 4
Ref 20 Peak Log 10 dB/ Offst 1 dB	dBm Mai	14:56:1	0 Jun 2 Atten:	30 dB GHz			4	Mkr1	1 2.4587	5 GHz	Select 1 2	1 of 2  rker  Marker 3 4  Norma
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -23.4	dBm Mai	14:56:1	0 Jun 2 Atten:	30 dB GHz			4	Mkr1	1 2.4587	5 GHz	Select 1 2	1 of 2  rker  Marker 3 4  Norma  Delta  Place Pair  Ring Ref)
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -23.4	Ma 2,4:	14:56:1 \$ rker 5875 386 d	0 Jun 2 Atten:	30 dB GHz			4	···	1 2.4587	5 GHz dBm	Select 1 2	nter  Marker 3 4  Norma  Delta  Polta  Delta  Delta
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -23.4 dBm	Ma 2,41 -3.3	14:56:1 ker 5875 386 d	0 Jun 2  Atten:	30 dB GHz	3W 300 ki	3 \$\frac{3}{4} \tag{2} \tag{5}		~~~~~~~~~~~	1 2.4587 -3.386 Span 10 ms (401	5 GHz dBm 0 MHz pts)	Select 1 2  De (Trac Ref	nter  Marker 3 4  Norma  Delta  Pair  king Ref)  Delta  pan Pair
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -23.4 dBm	Ma 2,41 -3.3	14:56:1 14:56:1 14:56:1 14:56:1 14:56:1 14:56:1	O Jun 2  Atten:	30 dB GHz	3W 300 kl X A: 2.45875	3 4 4z \$ kis GHz		~~~~~~~~~~	1 2.4587 -3.386 Span 10 ms (401 Amplitu-3.386 dB	5 GHz dBm 0 MHz pts)	Select 1 2	nter  Marker 3 4  Norma  Delta  Polta  Delta  Delta
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -23.4 dBm  Center #Res E Marke 1 2 3	Ma 2,41 -3.3	14:56:1 14:56:1 14:56:1 14:56:1 14:56:1 14:56:1	O Jun 2  Atten:	30 dB GHz	3W 300 kl X Av 2.45875 2.48350 2.50000	-tz S dis GHz GHz GHz		~~~~~~~~~~	Span 10 ms (401 Amplitu -3.386 dB -48.01 dB	5 GHz dBm 0 MHz pts) de m m	Select 1 2  De (Trac Ref	nter  Marker 3 4  Norma  Delta  Pair  king Ref)  Delta  pan Pair
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -23.4 dBm	Ma 2,41 -3.3	14:56:1 ker 5875 386 d	O Jun 2  Atten:	30 dB GHz	3W 300 kl X A: 2.45875 2.48350	-tz S dis GHz GHz GHz		~~~~~~~~~~	Span 10 ms (401 Amplitu- 3.386 dB -47.63 dB	5 GHz dBm 0 MHz pts) de m m	Select 1 2  De (Trac Ref	nter 1 of 2  Trker  Marker 3 4  Norma  Delta  Pair king Ref) Delta  Den Pair Center
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -23.4 dBm  Center #Res E Marke 1 2 3	Ma 2,41 -3.3	14:56:1 14:56:1 14:56:1 14:56:1 14:56:1 14:56:1	O Jun 2  Atten:	30 dB GHz	3W 300 kl X Av 2.45875 2.48350 2.50000	-tz S dis GHz GHz GHz		~~~~~~~~~~	Span 10 ms (401 Amplitu -3.386 dB -48.01 dB	5 GHz dBm 0 MHz pts) de m m	Select 1 2  De (Trac Ref	nter 1 of 2  Trker  Marker 3 4  Norma  Delta  Pair king Ref) Delta  Denta  Denta  Denta  Denta





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Γ:	Home	e Robot	Camera	Model:		XM-JPR2-F
nperature	25 °C		m'ab	Relative Humid	lity:	55%
t Voltage:	AC 1	20V/60H	IZ	218	Call	1133
t Mode:	TX N	(HT40) N	Mode 2422MH	z / TX N(HT40) M	lode 2	452MHz
nark:	The E	EUT is p	rogramed in co	ontinuously transn	nitting	mode
* Agil	ent 14:57:0	06 Jun 22,	2017			Mari
				Mkr1 2.42675		Marker
Ref 20 Peak	dBm	Atten 30 d	dB	-7.003 di	<b>Bm</b> S 1	elect Marker 2 3 4
Log 10				1	<b>-</b>	<u>2 3 4</u>
dB/	Marker				~_	Normal
1	2.42675	റററെ ദ	Hz	V		
	\$7.003 d		3 2	$\longrightarrow$	$\overline{}$	Delta
-27.0	M		Q			
dBm						Delta Pair (Tracking Ref)
Center	2.394 GHz			Span 100	Re MHz	f <u>Delta</u>
#Res B	W 100 kHz		#VBW 300 kHz	Sweep 10.36 ms (401 p	ts)	Span Pair an <u>Center</u>
Marke	(1)	Type Freq	X Axis 2.42675 GHz 2.40000 GHz	Amplitude -7.003 dBm -40.6 dBm	Ор	an <u>ocnier</u>
2	(1)	Freq				
3 4	(1)	Freq	2.39000 GHz 2.34625 GHz	-47.82 dBm -46.19 dBm		Off
3 4	(1) (1)	Freq Freq	2.39000 GHz 2.34625 GHz	-47.82 dBm -46.19 dBm		Off
	(1) (1)					More 1 of 2
	(1)					More
4		Freq	2.34625 GHz			More
			2.34625 GHz	-46.19 dBm		More
4	<b>ent</b> 14:58:3	Freq	2.34625 GHz		Rm	More 1 of 2
Agil Ref 20 Peak	<b>ent</b> 14:58:3	Freq 30 Jun 22,	2.34625 GHz	-46.19 dBm	Rm	More 1 of 2
₩ Agil Ref 20 Peak Log 10	<b>ent</b> 14:58:3	Freq 30 Jun 22,	2.34625 GHz	-46.19 dBm	Bm	More 1 of 2  Marker  elect Marker 2 3 4
# Agii Ref 20 Peak Log 10 dB/	<b>ent</b> 14:58:3	Freq  30 Jun 22,	2.34625 GHz	-46.19 dBm	Bm	More 1 of 2 Marker
Ref 20 Peak Log 10 dB/ Offst	ent 14:58:3 dBm Marker 2,45675	Atten 30 G	2.34625 GHz 2017 dB	-46.19 dBm	Bm	More 1 of 2  Marker  elect Marker 2 3 4  Normal
Ref 20 Peak Log 10 dB/ Offst 1 dB DI	ent 14:58:3 dBm Marker	Atten 30 G	2.34625 GHz 2017 dB	-46.19 dBm	Bm	More 1 of 2  Marker  elect Marker 2 3 4
Ref 20 Peak Log 10 dB/ Offst 1 dB	ent 14:58:3 dBm Marker 2,45675	Atten 30 G	2.34625 GHz 2017 dB	-46.19 dBm  Mkr1 2.45675 -6.298 dl	Bm	More 1 of 2  Marker  elect Marker 2 3 4  Normal
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -26.5	ent 14:58:3 dBm Marker 2,45675	Atten 30 G	2.34625 GHz 2017 dB	-46.19 dBm  Mkr1 2.45675 -6.298 dl	Single Si	More 1 of 2  Marker  elect Marker 2 3 4  Normal  Delta  Delta Pair (Tracking Ref)
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -26.5 dBm	ent 14:58:3 dBm Marker 2,45675 76.298 d	Atten 30 G	2.34625 GHz  2017  dB	-46.19 dBm  Mkr1 2.45675 -6.298 dl	Bm Si 1	More 1 of 2  Marker elect Marker 2 3 4  Normal  Delta  Delta Pair (Tracking Ref) f Delta
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -26.5 dBm	ent 14:58:3 dBm  Marker 2,45675 76.298 d	Atten 30 G	2.34625 GHz 2017 dB	-46.19 dBm  Mkr1 2.45675  -6.298 dl	Bm Si 1	More 1 of 2  Marker  elect Marker 2 3 4  Normal  Delta  Delta Pair (Tracking Ref)
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -26.5 dBm  Center #Res B	ent 14:58:3 dBm  Marker 2,45675 76.298 d	Atten 30 G	2.34625 GHz  2017  dB  5Hz  4VBW 300 kHz	-46.19 dBm  Mkr1 2.45675 -6.298 dl  \$\frac{3}{\text{Q}_1} \text{Q} \$\$ Span 100  Sweep 10.36 ms (401 p  Amplitude -6.298 dBm -47.1 dBm	Bm Si 1	More 1 of 2  Marker elect Marker 2 3 4  Normal  Delta  Delta Pair (Tracking Ref) f Delta  Span Pair
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -26.5 dBm  Center #Res B	ent 14:58:3 dBm  Marker 2,45675 76.298 d	Atten 30 G  OOOO G  Type Freq	2.34625 GHz  2017  dB  #VBW 300 kHz  X Axis 2.45675 GHz	Mkr1 2.45675 -6.298 dl  Span 100 Sweep 10.36 ms (401 p  Amplitude -6.298 dBm	Bm Si 1	More 1 of 2  Marker elect Marker 2 3 4  Normal  Delta  Delta Pair (Tracking Ref) f Delta  Span Pair
Ref 20 Peak Log 10 dB/ Offst 1 dB DI -26.5 dBm  Center #Res B	ent 14:58:3 dBm  Marker 2,45675 76.298 d	Atten 30 G  OOOO G  Type Freq Freq Freq Freq Freq	2.34625 GHz  2017  dB  #VBW 300 kHz  X Axis 2.45675 GHz 2.48350 GHz 2.50000 GHz	-46.19 dBm  Mkr1 2.45675  -6.298 dl  Span 100  Sweep 10.36 ms (401 p  Amplitude  -6.298 dBm  -47.1 dBm  -47.2 dBm	Bm Si 1	More 1 of 2  Marker  elect Marker 2 3 4  Normal  Delta  Delta Pair (Tracking Ref) f Delta  Span Pair an Center



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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	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, Digital photo framesdle and high channel for the test.

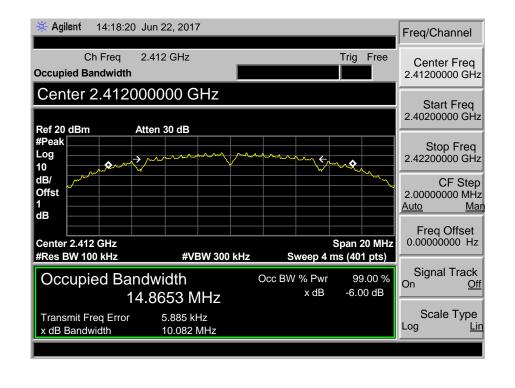


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# 7.5 Test Data

EUT:	Home Robot Camera		Model:	XM-JPR2-R	
Temperature:	<b>25</b> ℃		Relative Humidity:	55%	
Test Voltage:	AC 120V/60HZ				
Test Mode:	TX 802.11B Mode				
Channel frequency		6dB Bandwidth	99% Bandwidth	Limit	
(MHz)		(MHz)	(MHz)	(MHz)	
2412		10.082	14.8653		
2437		10.087	14.8933	>=0.5	
2462		10.068	14.8815		
	•	802.111	3 Mode		
		2412	MHz		

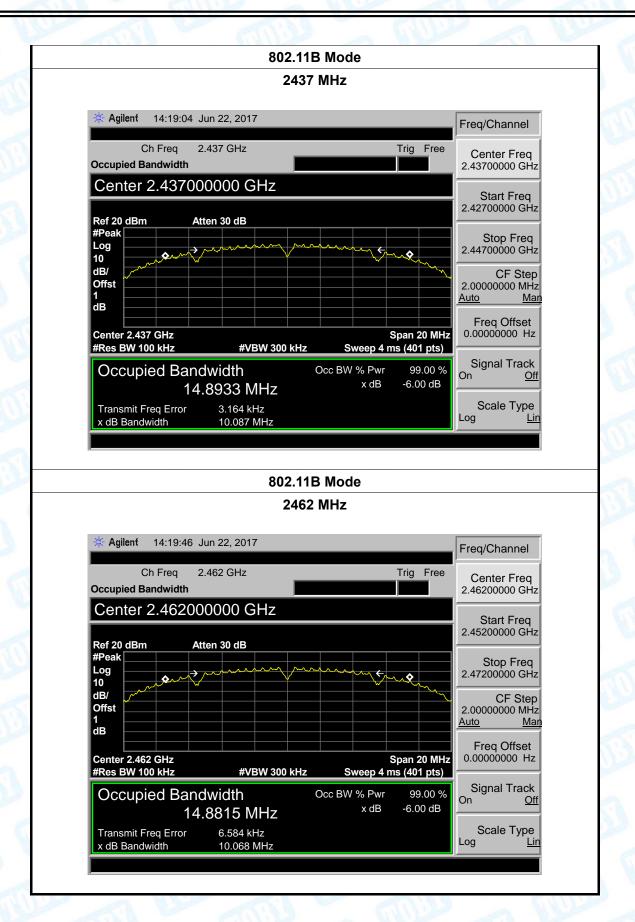






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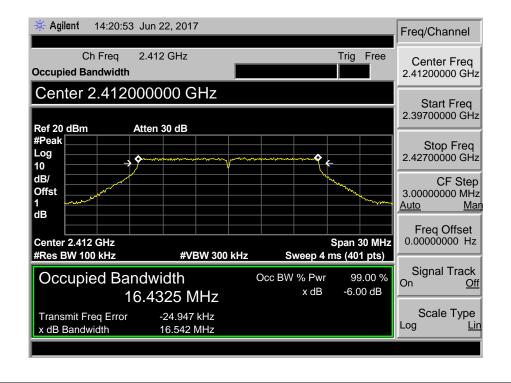




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EUT:	Home Robot Camera	Model:	XM-JPR2-R			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60HZ					
Test Mode:	TX 802.11G Mode					
Channel frequence	cy 6dB Bandwidth	99% Bandwidth	Limit			
(MHz)	(MHz)	(MHz)	(MHz)			
2412	16.542	16.4325				
2437	16.581	16.4373	>=0.5			
2462	16.541	16.4255				
802.11G Mode						

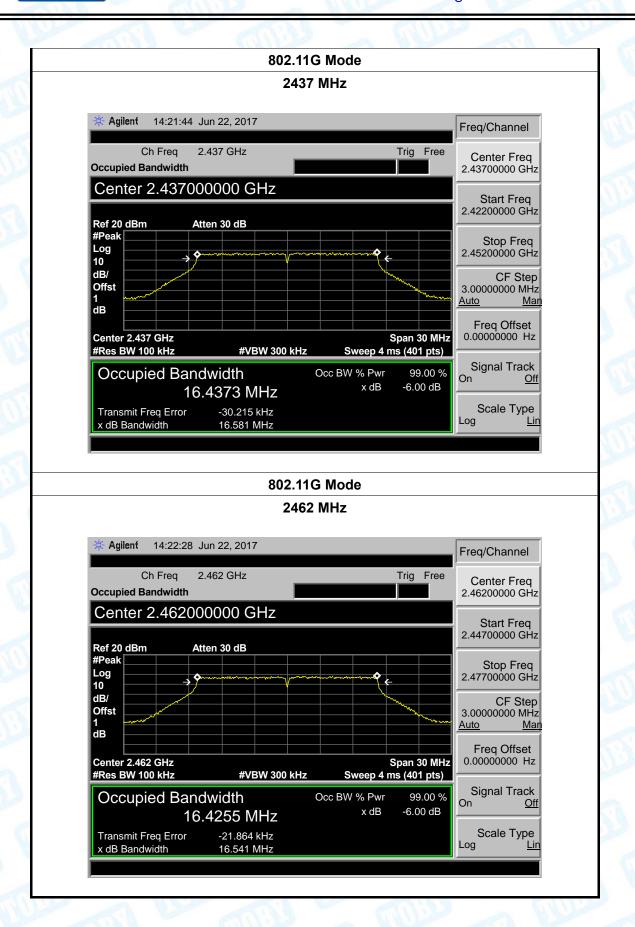
## 2412 MHz





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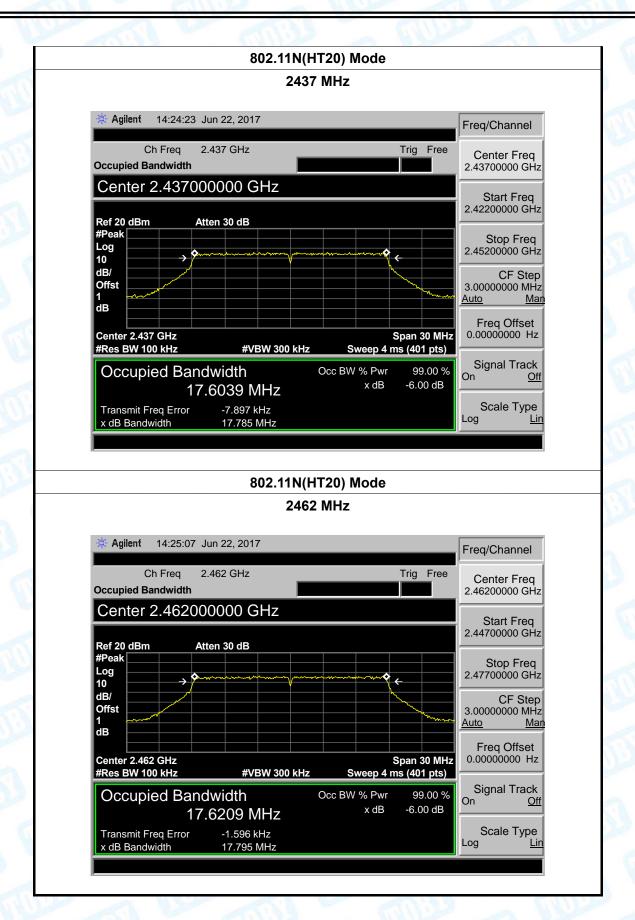




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Т:	Home Robot Camera Model:		XM-JPR2-R
nperature:	<b>25</b> ℃	Relative Humidity:	55%
t Voltage:	AC 120V/60HZ		1133
t Mode:	TX 802.11N(HT20) Mod	le	601
annel frequen	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2412	17.766	17.6125	
2437	17.785	17.6039	>=0.5
2462	17.795	17.6209	
	802.11N(I	HT20) Mode	
	241	2 MHz	
Cr Occupied Ba	14:23:39 Jun 22, 2017  n Freq 2.412 GHz  ndwidth  2.412000000 GHz	Trig Free	eq/Channel Center Freq 41200000 GHz
Cr Occupied Ba	n Freq 2.412 GHz	Trig Free 2.	Center Freq
Center 2  Ref 20 dBm #Peak Log	2.412000000 GHz	Trig Free 2.	Center Freq 41200000 GHz  Start Freq 39700000 GHz  Stop Freq 42700000 GHz  CF Step 000000000 MHz to Man
Center 2  Ref 20 dBm #Peak Log 10 dB/ Offst 1	2.412000000 GHz  Atten 30 dB  GHz	Trig Free 2.	Center Freq 41200000 GHz  Start Freq 39700000 GHz  Stop Freq 42700000 GHz  CF Step 00000000 MHz







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Log

25.723 kHz 36.289 MHz

Transmit Freq Error x dB Bandwidth

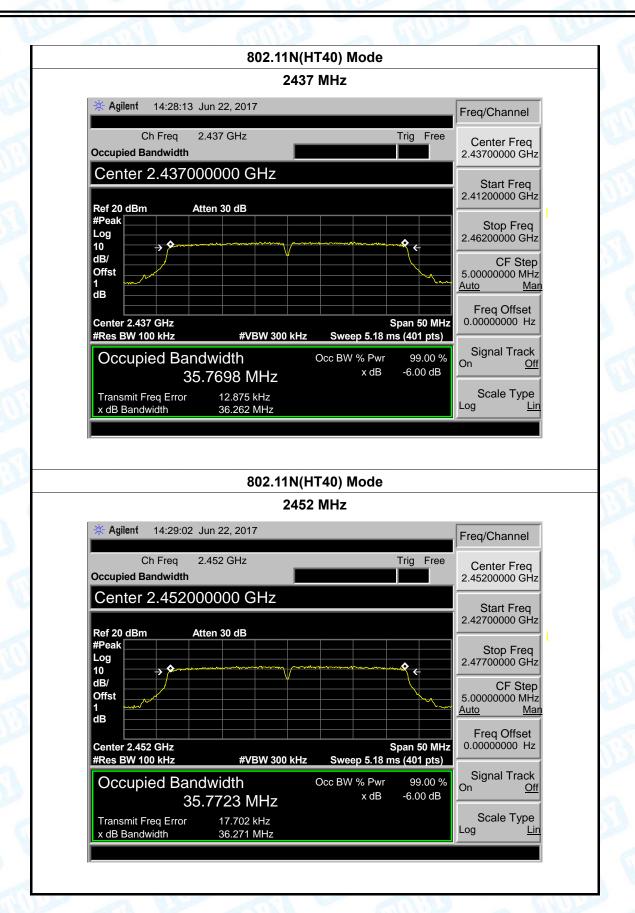
Scale Type

EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ	THE PARTY OF THE P	13 W
Test Mode:	TX 802.11N(HT40) Mode		The state of the s
Channel frequen	cy 6dB Bandwidth	99% Bandwidth	Limit
(MHz)	(MHz)	(MHz)	(MHz)
2422	36.289	35.7724	
2437	36.262	35.7698	>=0.5
2452	36.271	35.7723	
	802.11N(H	T40) Mode	
Occupied Ba	h Freq 2.422 GHz	Trig Free	Center Freq .42200000 GHz
Center	2.422000000 GHz Atten 30 dB	2	Start Freq .39700000 GHz
#Peak Log 10 dB/	<b>,</b>	2	Stop Freq .44700000 GHz
Offst 1 dB			.000000000 MHz uto Man
Center 2.42 #Res BW 10		Span 50 MHz Sweep 5.18 ms (401 pts)	0.00000000 Hz
Occupi	ed Bandwidth 35.7724 MHz	Occ BW % Pwr 99.00 % x dB -6.00 dB	Signal Track n <u>Off</u>



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# 8. Peak Output Power Test

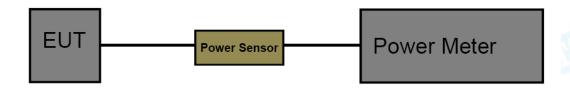
## 8.1 Test Standard and Limit

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. 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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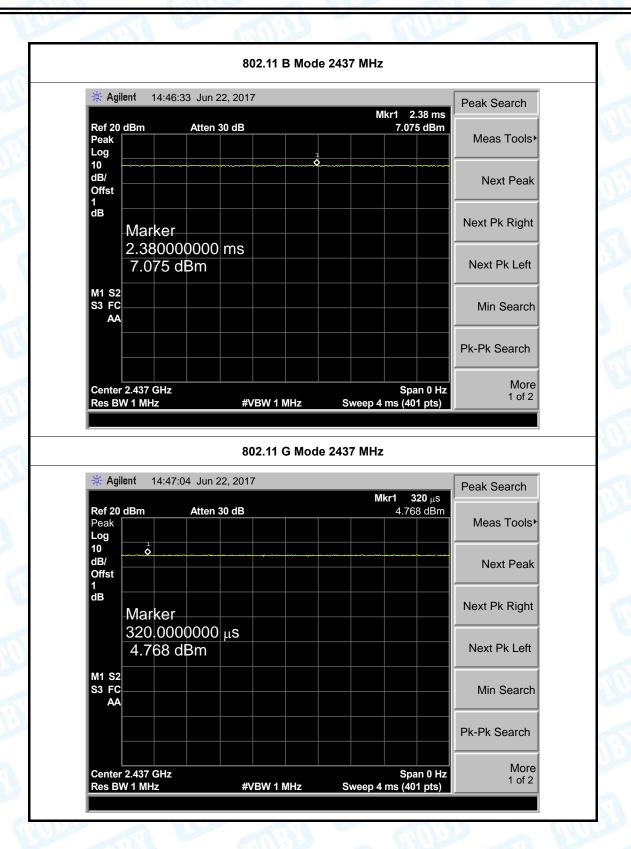
# 8.5 Test Data

EUT:	Home Robot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	15.95	
802.11b	2437	16.66	
	2462	17.22	
	2412	16.38	
802.11g	2437	16.90	
	2462	17.74	30
802.11n	2412	15.54	30
(HT20)	2437	15.71	
(11120)	2462	16.28	
802.11n	2422	13.48	
(HT40)	2437	13.75	
(11140)	2452	14.25	
	Resu	It: PASS	

	Duty Cycle	
Mode	Channel frequency (MHz)	Test Result
	2412	
802.11b	2437	
	2462	
	2412	
802.11g	2437	
	2462	>98%
000 44	2412	<b>&gt;30</b> %
802.11n (HT20)	2437	
(11120)	2462	
000 44	2422	
802.11n (HT40)	2437	
(П140)	2452	
ease see belo	w plots	

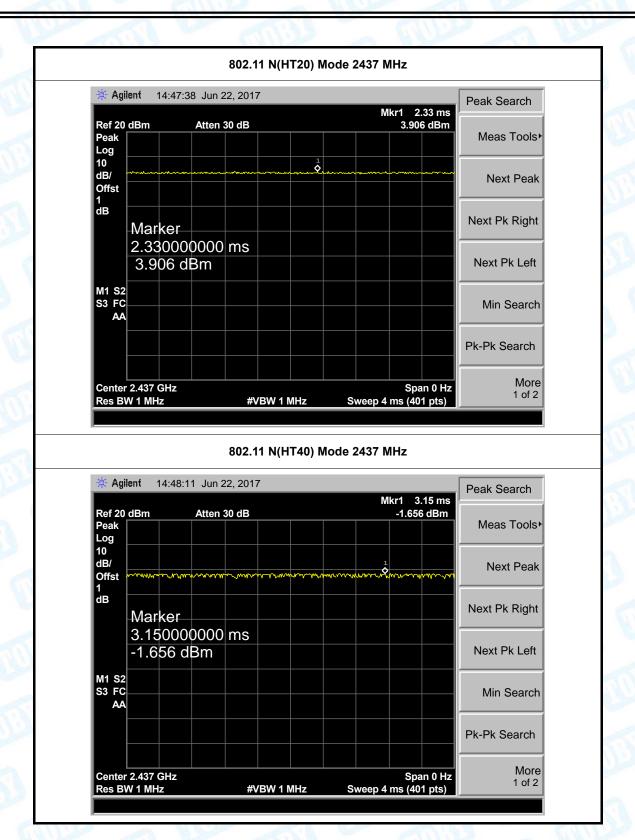








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# 9. Power Spectral Density Test

#### 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.

- (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, Digital photo framesdle and high channel for the test.

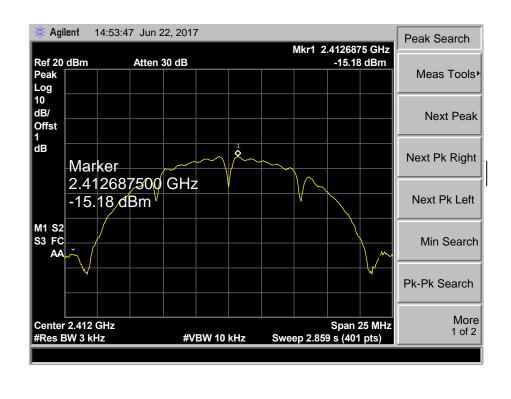


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## 9.5 Test Data

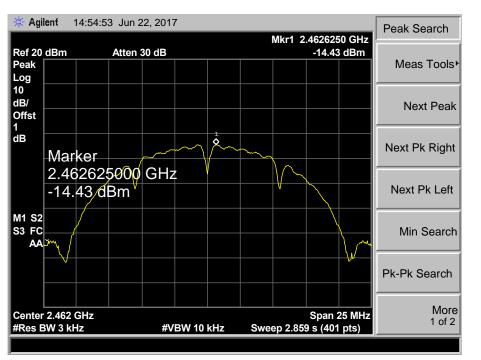
EUT:	Home Robot Camera Model:		Model:	XM-JPR2-R
Temperature:	25 ℃		Relative Humidity:	55%
Test Voltage:	AC 120V/	60HZ		
Test Mode:	TX 802.11B Mode			
Channel Frequency	Channel Frequency Power Density Limit			Limit
(MHz)		(dBm/3 kHz)		(dBm)
2412		-15.18		
2437		-14.83		8
2462		-14.43		
802.11B Mode				

#### 2412 MHz











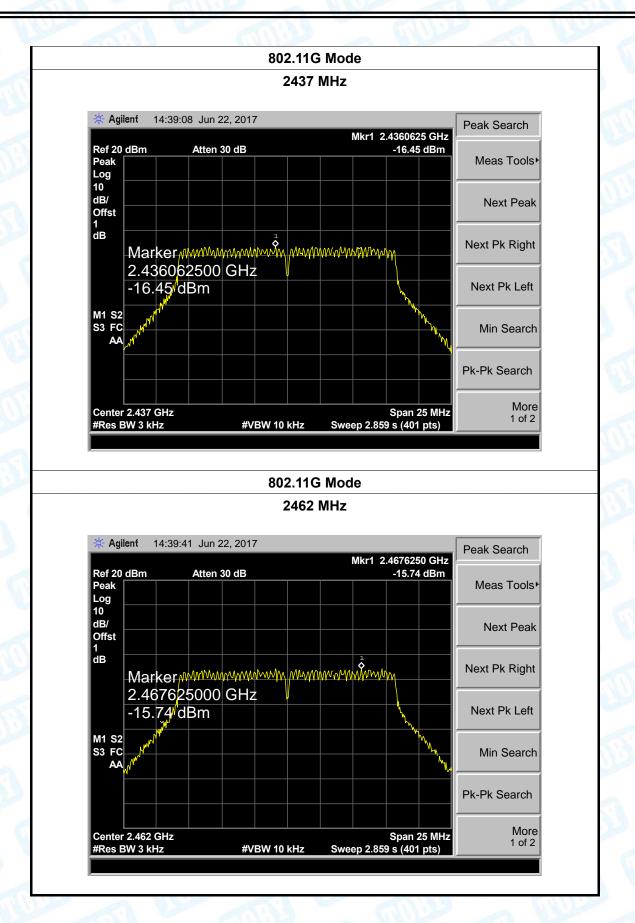
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	Home Rob	ot Camera	Mode	l:	XM-JPR2-I
perature:	25 ℃	TO STATE	Temp	erature:	<b>25</b> ℃
Voltage:	AC 120V/6	60HZ	THE PERSON	G	THE STATE OF
Mode:	TX 802.11	G Mode	3		
hannel Freq	uency	Power [	Density		Limit
(MHz)		(dBm/3	3 kHz)		(dBm)
2412		-16.	95		
2437		-16.	45		8
2462		-15.	74		
		802.11G	Mode	<u>'</u>	
		2412	MHz		
* Agilent	14:38:37 Jun 22	2, 2017	Mkr1_2.	4191875 GHz	Peak Search
Ref 20 dBm Peak Log 10 dB/ Offst	14:38:37 Jun 22		Mkr1 2.	4191875 GHz -16.95 dBm	Peak Search  Meas Tools▶  Next Peak
Ref 20 dBm Peak Log 10 dB/ Offst 1 dB Ma 2.4	Atten 3  rker <sub>//////</sub> 19187500	0 dB	Mkr1 2.	-16.95 dBm	Meas Tools⊁
Ref 20 dBm Peak Log 10 dB/ Offst 1 dB Ma 2.4	Atten 3	0 dB		-16.95 dBm	Meas Toolsh  Next Peak  Next Pk Right
Ref 20 dBm Peak Log 10 dB/ Offst 1 dB  Ma 2.4 -16	Atten 3  rker <sub>//////</sub> 19187500	0 dB		-16.95 dBm	Meas Toolsh  Next Peak  Next Pk Right  Next Pk Left



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M1 S2 S3 FC AA

Center 2.412 GHz #Res BW 3 kHz Report No.: TB-FCC156035

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Min Search

More 1 of 2

Pk-Pk Search

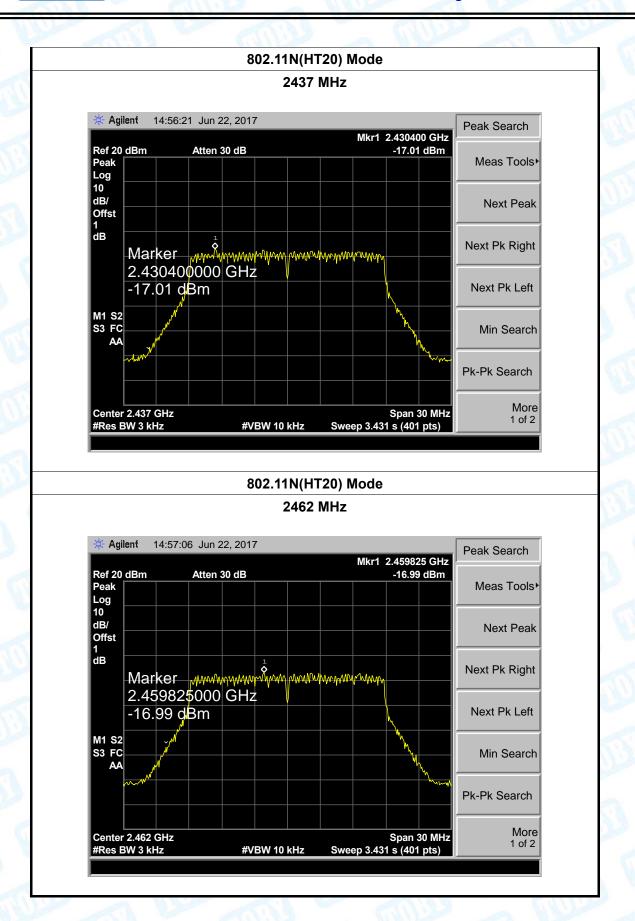
Span 30 MHz Sweep 3.431 s (401 pts)

#VBW 10 kHz

EUT:	Home Ro	Home Robot Camera Model:			XM-JPR2-R
Temperature:	<b>25</b> ℃	Temperature:		25 ℃	
Test Voltage:	AC 120V/	AC 120V/60HZ		(E	10.33
Test Mode:	TX 802.1	1N(HT20) Mode		N	
	requency	Power D	-		Limit
(MI	Hz)	(dBm/3	-		(dBm)
24	12	-17.	90		
24	37	-17.	01		8
24	62	-16.	99		
		802.11N(HT	20) Mode		
		2412	MHz		
* Agil	<b>ent</b> 14:55:28 Jun	22, 2017	Nim 0 40E	400 OU-	Peak Search
Ref 20 Peak Log	dBm Atten	30 dB	Mkr1 2.4054 -17.	9 dBm	Meas Tools⊁
dB/ Offst					Next Peak
dB	Marker	wwwwwwwww GHz	wwwwww		Next Pk Right
	-17.9 d <b>B</b> m				Next Pk Left









Center 2.422 GHz #Res BW 3 kHz Report No.: TB-FCC156035

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Min Search

More 1 of 2

Pk-Pk Search

Span 55 MHz Sweep 6.29 s (401 pts)

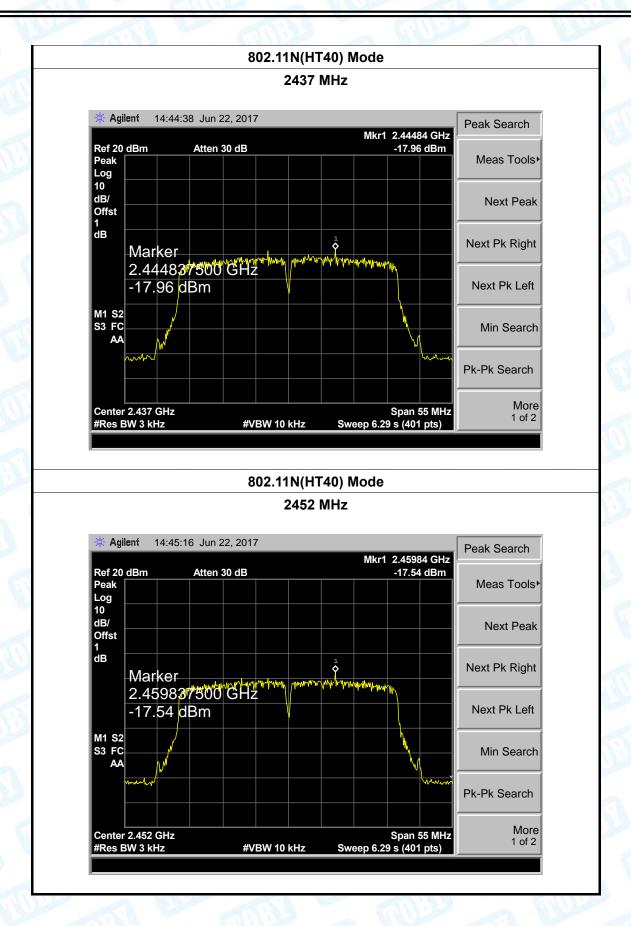
	1	COUNTY OF THE PARTY OF THE PART		The state of the
EUT:	Home Rob	ot Camera	Model:	XM-JPR2-R
Temperature:	25 ℃	TO W	Temperature	e: 25 °C
Test Voltage:	AC 120V/6	60HZ	CHI);	- 10 W
Test Mode:	TX 802.11	N(HT40) Mode	3.8	CITIES .
Channel Fred	quency	Power De	ensity	Limit
(MHz)		(dBm/3	kHz)	(dBm)
2422		-18.3	3	
2437		-17.9	6	8
2452		-17.5	4	
		802.11N(HT4	0) Mode	
* Agilent	14:43:55 Jun 2	2, 2017		Peak Search
Ref 20 dBm Peak Log	Atten 3	0 dB	Mkr1 2.41856 -18.33 d	
10 dB/ Offst 1				Next Peak
dB Ma	arker 1185 <mark>62500</mark>	ATITUTE TO THE TOTAL THE T	yrthafun <mark>shalun yn y</mark> f yn	Next Pk Right
-18	3.33 dBm	OHZ -		Next Pk Left
M1 S2	/		<u> </u>	

#VBW 10 kHz



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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 3dBi, 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 Internal Antenna. It complies with the standard requirement.

	Antenna Type	
The state of the s	Permanent attached antenna	
a Turn		000
	Professional installation antenna	1000

----END OF REPORT----