

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC145117

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FCC Radio Test Report FCC ID: 2AEP6XM-JPK1S

Original Grant

Report No. TB-FCC145117

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

Equipment Under Test (EUT)

EUT Name Smart Socket

Model No. XM-JPK1S

Series No. XM-JPK1, XM-JPK2, XM-JPK2S

Brand Name XM

Receipt Date 2015-08-14

2015-08-14 to 2015-08-25 **Test Date**

Issue Date 2015-08-26

Standards FCC Part 15, Subpart C (15.247:2014)

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)

		Reg Add A WIT About			
EUT Name		Smart Socket			
Models No.	P	XM-JPK1S, XM-JPK1	, XM-JPK2, XM-JPK2S		
Model Difference	1	All these models are identical in the same PCB, layout and electric circuit, the only difference is model name for commercial.			
		Operation Frequency: 802.11b/g/n(HT20): 2 802.11n(HT40): 2422 Number of Channel:	412MHz~2462MHz MHz~2452MHz 802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)		
Product Description		RF Output Power:	802.11b: 12.28 dBm 802.11g: 12.11 dBm 802.11n (HT20): 11.98 dBm 802.11n (HT40): 11.35 dBm		
A VIII		Antenna Gain:	-0.5 dBi Chip Antenna		
		Modulation Type:	802.11b: CCK, DQPSK, DBPSK 802.11g: 64-QAM,QPSK,BPSK 802.11n: 64-QAM,16-QAM,QPSK,BPSK		
		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		AC Voltage supplied			
Power Rating	1	Input: AC 90~240V Output: AC 90~240V, DC 5V Max Load: 240V, 10A USB 5V 1A			
Connecting I/O Port(S)	:	Please refer to the Us	Please refer to the User's Manual		



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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 v03r03.

(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

TX Mode



1.4 Description of Support Units

Equipment Information						
Model S/N Manufacturer Used "√"						
			an in			
Cable Information						
Number Shielded Type Ferrite Core Length Note						
a U		URD	MADE			
	Model	Model S/N Cable Information	Model S/N Manufacturer Cable Information			



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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	TX B Mode				

For Radiated Test				
Final Test Mode Description				
Mode 3	TX Mode B Mode Channel 01/06/11			
Mode 4	TX Mode G Mode Channel 01/06/11			
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11			
Mode 6	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 mobile 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.

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.



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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
	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 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
onducted Emission adiated Emission	150kHz to 30MHz	±3.42 dB
Dadiated Emission	Level Accuracy:	. 4 CO dD
Conducted Emission Radiated Emission Radiated Emission	9kHz to 30 MHz	±4.60 dB
Padiated Emission	Level Accuracy:	±4.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 db
Padiated Emission	Level Accuracy:	±4.20 dB
Radiated Emission	Above 1000MHz	±4.20 UB



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1.7 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.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.



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2. Test Summary

	FCC Part	: 15 Subpart C(15.247)/ RSS 247	Issue 1		
Standa	rd Section	Tool How	Tural arrange (A)	Damark	
FCC	IC	Test Item	Judgment	Remark	
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	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

Conducted Emission Test						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date	
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016	
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016	
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016	
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016	
	Manadataro	model ito:	Octivitio.	Luot Gui.	Date	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due	
Spectrum					100	
Analyzer	Agilent	E4407B	MY45106456	Sep. 01, 2014	Aug. 31, 2015	
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016	
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016	
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016	
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016	
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016	
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016	
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016	
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016	
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A	



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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

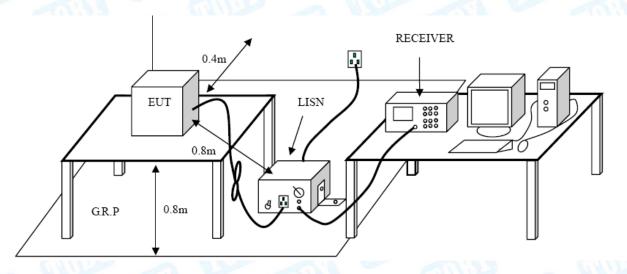
Conducted Emission Test Limit

THE PROPERTY OF THE PARTY OF TH	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:	Smart	Socket	Mo	Model Name :		M-JPK19	3
Temperature:	25 ℃	Carl's	Re	Relative Humidity:		5%	Alle
Test Voltage:	AC 12	AC 120V/60Hz					
Terminal:	Line		Alto		U		ARI
Test Mode:	TX B	Mode		MILDE	9	2 1	A LINE
Remark:	Only	worse case	is reported			13	
90.0 dBuV							
						QP: AVG:	
x							
40					×		
Mary	MMM	MMAAAAA IMAAAA			March Mary Company	med before from the comp	and the same of the
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0.150	0.5		(MHz)	5	na programme		30.000
		Reading Level			Limit	Over	
0.150	0.5	Reading	(MHz) Correct	5 Measure-	Limit dBuV	Over	
0.150 No. Mk.	0.5	Reading Level	(MHz) Correct Factor	5 Measure- ment	dBuV		30.000
0.150 No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	dBuV 65.56	dB	30.000 Detecto
0.150 No. Mk. 1 * (0.5 Freq. MHz 0.1580	Reading Level dBuV 33.32	Correct Factor dB 10.12	Measure- ment dBuV 43.44	dBuV 65.56 55.56	dB -22.12	30.000 Detecto
0.150 No. Mk. 1 * (0.5 Freq. MHz 0.1580	Reading Level dBuV 33.32 20.20	Correct Factor dB 10.12 10.12	Measurement dBuV 43.44 30.32	dBuV 65.56 55.56 58.15	dB -22.12 -25.24	30.000 Detecto
0.150 No. Mk. 1 * (2 (3 (0.5 Freq. MHz 0.1580 0.1580 0.3860	Reading Level dBuV 33.32 20.20 22.69	Correct Factor dB 10.12 10.12 10.06	Measure- ment dBuV 43.44 30.32 32.75	dBuV 65.56 55.56 58.15 48.15	dB -22.12 -25.24 -25.40	30.000 Detecto QP AVC
0.150 No. Mk. 1 * (2 (3 (4 (5 (1 * (0.5 Freq. MHz 0.1580 0.1580 0.3860 0.3860	Reading Level dBuV 33.32 20.20 22.69 13.91	(MHz) Correct Factor dB 10.12 10.12 10.06	Measurement dBuV 43.44 30.32 32.75 23.97	dBuV 65.56 55.56 58.15 48.15 56.00	dB -22.12 -25.24 -25.40 -24.18	30.000 Detecto QP AVC
0.150 No. Mk. 1 * (2) 3 (4) 5 (6)	0.5 Freq. MHz 0.1580 0.1580 0.3860 0.3860 0.6020	Reading Level dBuV 33.32 20.20 22.69 13.91 21.12	(MHz) Correct Factor dB 10.12 10.12 10.06 10.06 10.02	5 Measurement dBuV 43.44 30.32 32.75 23.97 31.14	dBuV 65.56 55.56 58.15 48.15 56.00	dB -22.12 -25.24 -25.40 -24.18 -24.86	30.000 Detecto QP AVC QP QP
0.150 No. Mk. 1 * (2 (3 (4 (5 (7 ()	D.1580 D.3860 D.3860 D.6020 D.6020	Reading Level dBuV 33.32 20.20 22.69 13.91 21.12 12.35	(MHz) Correct Factor dB 10.12 10.12 10.06 10.06 10.02 10.02	Measurement dBuV 43.44 30.32 32.75 23.97 31.14 22.37	dBuV 65.56 55.56 58.15 48.15 56.00 46.00	dB -22.12 -25.24 -25.40 -24.18 -24.86 -23.63 -28.50	Joseph Specific Speci
0.150 No. Mk. 1 * (2 (3 (5 (6 (7 (8 (8 (8 (8 (8 (8 (8 (8 (8 (8	D.1580 D.3860 D.3860 D.6020 D.6020 D.6020	Reading Level dBuV 33.32 20.20 22.69 13.91 21.12 12.35 17.43	(MHz) Correct Factor dB 10.12 10.12 10.06 10.06 10.02 10.02 10.07	Measurement dBuV 43.44 30.32 32.75 23.97 31.14 22.37 27.50	dBuV 65.56 55.56 58.15 48.15 56.00 46.00	dB -22.12 -25.24 -25.40 -24.18 -24.86 -23.63 -28.50	Joseph Specific Speci
0.150 No. Mk. 1 * (2) 3 (4) 5 (6) 7 8 9 10	0.5 Freq. MHz 0.1580 0.3860 0.3860 0.6020 0.6020 1.9300 1.9300	Reading Level dBuV 33.32 20.20 22.69 13.91 21.12 12.35 17.43 6.91	(MHz) Correct Factor dB 10.12 10.12 10.06 10.06 10.02 10.02 10.07	Measurement dBuV 43.44 30.32 32.75 23.97 31.14 22.37 27.50 16.98	dBuV 65.56 55.56 58.15 48.15 56.00 46.00 56.00	dB -22.12 -25.24 -25.40 -24.18 -24.86 -23.63 -28.50 -29.02 -28.29	JOURNAL STATE OF THE PROPERTY
0.150 No. Mk. 1 * (2) 3 (4) 5 (6) 7 8 9 10 10 10	0.5 Freq. MHz 0.1580 0.3860 0.3860 0.6020 0.6020 1.9300 1.9300 0.1899	Reading Level dBuV 33.32 20.20 22.69 13.91 21.12 12.35 17.43 6.91 21.55	(MHz) Correct Factor dB 10.12 10.12 10.06 10.06 10.02 10.02 10.07 10.07 10.16	5 Measurement dBuV 43.44 30.32 32.75 23.97 31.14 22.37 27.50 16.98 31.71	dBuV 65.56 55.56 58.15 48.15 56.00 46.00 46.00 60.00	dB -22.12 -25.24 -25.40 -24.18 -24.86 -23.63 -28.50 -29.02 -28.29	Detecto QP AVC QP AVC QP AVC
0.150 No. Mk. 1 * (2 (3 (4 (5 (7 (8 (9 (10 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (2 (11 (11	0.5 Freq. MHz 0.1580 0.3860 0.3860 0.6020 0.6020 1.9300 1.9300 0.1899 0.1899	Reading Level dBuV 33.32 20.20 22.69 13.91 21.12 12.35 17.43 6.91 21.55 16.13	(MHz) Correct Factor dB 10.12 10.12 10.06 10.06 10.02 10.02 10.07 10.07 10.16 10.16	Measurement dBuV 43.44 30.32 32.75 23.97 31.14 22.37 27.50 16.98 31.71 26.29	dBuV 65.56 55.56 58.15 48.15 56.00 46.00 56.00 60.00	-22.12 -25.24 -25.40 -24.18 -24.86 -23.63 -28.50 -29.02 -28.29 -23.71	JOURNAL SERVICE STATE OF THE PROPERTY OF THE P



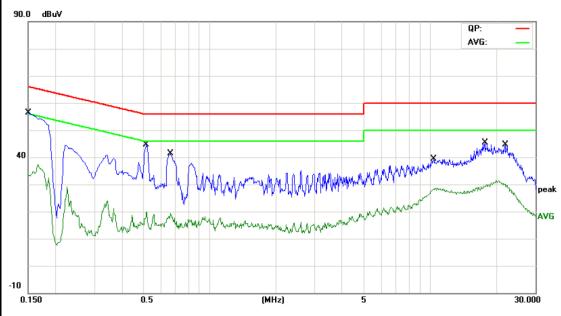
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	Sma	rt Socket	M	Model Name :		XM-JPK1S			
Temperature	25 °C	C	Re	Relative Humidity:			55%		
Test Voltage	: AC 1	AC 120V/60Hz							
Terminal:	Neut	Neutral							
Test Mode:	TX E	3 Mode		MILLE		0 N	Market		
Remark:	Only	worse case	is reported			199			
90.0 dBuV									
						QP: AVG:			
40 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	x					.,			
	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	MANAMANANA MANAMANA	rhy/wherehopenew	hanned on the language and the same of the state of the same of	and the second second	Aprill-uponovilelynover	* Andrews		
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							ATT.		
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0.150									
0.130	0.5		(MHz)	5			30.000		
0.130	0.5	Reading					30.000		
No. Mk.	Freq.	Reading Level	(MHz) Correct Factor	Measure- ment	Limit	Over	30.000		
		_	Correct	Measure-	Limit	Over	30.000 Detector		
	Freq.	Level	Correct Factor	Measure- ment	dBu∨				
No. Mk.	Freq.	Level	Correct Factor	Measure- ment	dBu∨ 65.99	dB	Detector QP		
No. Mk.	Freq. MHz 0.1500	dBuV 39.57	Correct Factor	Measure- ment dBuV 49.49	dBuV 65.99 55.99	dB -16.50	Detector QP		
No. Mk.	Freq. MHz 0.1500 0.1500	Level dBu√ 39.57 23.57	Correct Factor dB 9.92 9.92	Measure- ment dBuV 49.49 33.49	dBuV 65.99 55.99 60.99	dB -16.50 -22.50	Detector QP AVG QP		
No. Mk. 1 2 3	Freq. MHz 0.1500 0.1500 0.2740	39.57 23.57 31.89	Correct Factor dB 9.92 9.92 10.02	Measure- ment dBuV 49.49 33.49 41.91	dBuV 65.99 55.99 60.99	dB -16.50 -22.50 -19.08	Detector QP AVG QP		
No. Mk. 1 2 3 4 *	Freq. MHz 0.1500 0.1500 0.2740 0.2740	dBuV 39.57 23.57 31.89 24.93	Correct Factor dB 9.92 9.92 10.02	Measure- ment dBuV 49.49 33.49 41.91 34.95	dBuV 65.99 55.99 60.99 50.99 59.76	dB -16.50 -22.50 -19.08 -16.04	Detector QP AVG QP AVG		
No. Mk. 1 2 3 4 * 5	Freq. MHz 0.1500 0.1500 0.2740 0.2740 0.3180	dBuV 39.57 23.57 31.89 24.93 28.66	Correct Factor dB 9.92 9.92 10.02 10.02	Measure- ment dBuV 49.49 33.49 41.91 34.95 38.68	dBuV 65.99 55.99 60.99 50.99 59.76 49.76	dB -16.50 -22.50 -19.08 -16.04 -21.08	Detector QP AVG QP AVG		
No. Mk. 1 2 3 4 * 5 6	Freq. MHz 0.1500 0.1500 0.2740 0.2740 0.3180 0.3180	ABuV 39.57 23.57 31.89 24.93 28.66 14.95	Correct Factor dB 9.92 9.92 10.02 10.02 10.02	Measurement dBuV 49.49 33.49 41.91 34.95 38.68 24.97	dBuV 65.99 55.99 60.99 50.99 59.76 49.76 56.00	dB -16.50 -22.50 -19.08 -16.04 -21.08 -24.79	Detector QP AVG QP AVG QP AVG		
No. Mk. 1 2 3 4 * 5 6 7 8	Freq. MHz 0.1500 0.1500 0.2740 0.2740 0.3180 0.3180 1.4299 1.4299	Level dBuV 39.57 23.57 31.89 24.93 28.66 14.95 25.09 15.22	Correct Factor dB 9.92 9.92 10.02 10.02 10.02 10.06 10.06	Measurement dBuV 49.49 33.49 41.91 34.95 38.68 24.97 35.15 25.28	dBuV 65.99 55.99 60.99 50.99 59.76 49.76 56.00 46.00	dB -16.50 -22.50 -19.08 -16.04 -21.08 -24.79 -20.85 -20.72	Detector QP AVG QP AVG QP AVG		
No. Mk. 1 2 3 4 * 5 6 7 8	Freq. MHz 0.1500 0.1500 0.2740 0.3180 0.3180 1.4299 1.4299 10.9379	Level dBuV 39.57 23.57 31.89 24.93 28.66 14.95 25.09 15.22 22.91	Correct Factor dB 9.92 9.92 10.02 10.02 10.02 10.06 10.06 10.18	Measurement dBuV 49.49 33.49 41.91 34.95 38.68 24.97 35.15 25.28 33.09	dBuV 65.99 55.99 60.99 59.76 49.76 56.00 46.00	dB -16.50 -22.50 -19.08 -16.04 -21.08 -24.79 -20.85 -20.72 -26.91	Detector QP AVG QP AVG QP AVG QP QP		
No. Mk. 1 2 3 4 * 5 6 7 8 9	Freq. MHz 0.1500 0.1500 0.2740 0.2740 0.3180 0.3180 1.4299 1.4299 10.9379	Level dBuV 39.57 23.57 31.89 24.93 28.66 14.95 25.09 15.22 22.91 17.08	Correct Factor dB 9.92 9.92 10.02 10.02 10.02 10.06 10.06 10.18 10.18	Measurement dBuV 49.49 33.49 41.91 34.95 38.68 24.97 35.15 25.28 33.09 27.26	dBuV 65.99 55.99 60.99 50.99 59.76 49.76 56.00 46.00 60.00	dB -16.50 -22.50 -19.08 -16.04 -21.08 -24.79 -20.85 -20.72 -26.91 -22.74	Detector QP AVG QP AVG QP AVG QP AVG		
No. Mk. 1 2 3 4 * 5 6 7 8 9 10 11	Freq. MHz 0.1500 0.1500 0.2740 0.2740 0.3180 1.4299 1.4299 10.9379 10.9379 20.2220	Level dBuV 39.57 23.57 31.89 24.93 28.66 14.95 25.09 15.22 22.91 17.08 21.30	Correct Factor dB 9.92 9.92 10.02 10.02 10.02 10.06 10.06 10.18 10.18 10.16	Measurement dBuV 49.49 33.49 41.91 34.95 38.68 24.97 35.15 25.28 33.09 27.26 31.46	dBuV 65.99 55.99 60.99 59.76 49.76 56.00 46.00 60.00	dB -16.50 -22.50 -19.08 -16.04 -21.08 -24.79 -20.85 -20.72 -26.91 -22.74 -28.54	Detector QP AVG QP AVG QP AVG QP AVG QP AVG		
No. Mk. 1 2 3 4 * 5 6 7 8 9 10 11	Freq. MHz 0.1500 0.1500 0.2740 0.2740 0.3180 0.3180 1.4299 1.4299 10.9379	Level dBuV 39.57 23.57 31.89 24.93 28.66 14.95 25.09 15.22 22.91 17.08	Correct Factor dB 9.92 9.92 10.02 10.02 10.02 10.06 10.06 10.18 10.18	Measurement dBuV 49.49 33.49 41.91 34.95 38.68 24.97 35.15 25.28 33.09 27.26	dBuV 65.99 55.99 60.99 59.76 49.76 56.00 46.00 60.00	dB -16.50 -22.50 -19.08 -16.04 -21.08 -24.79 -20.85 -20.72 -26.91 -22.74	Detector QP AVG QP AVG QP AVG QP AVG		



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EUT:	Smart Socket	Model Name :	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz	131	
Terminal:	Line		
Test Mode:	TX B Mode		THE PARTY OF THE P
Remark:	Only worse case is repor	rted	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV	dBu∀	dB	Detector
1	*	0.1516	50.58	9.92	60.50	65.91	-5.41	QP
2		0.1516	29.65	9.92	39.57	55.91	-16.34	AVG
3		0.3460	39.08	10.02	49.10	59.06	-9.96	QP
4		0.3460	21.80	10.02	31.82	49.06	-17.24	AVG
5		0.5220	32.38	10.03	42.41	56.00	-13.59	QP
6		0.5220	13.92	10.03	23.95	46.00	-22.05	AVG
7		10.3340	23.19	10.17	33.36	60.00	-26.64	QP
8		10.3340	17.59	10.17	27.76	50.00	-22.24	AVG
9		16.3100	24.38	10.23	34.61	60.00	-25.39	QP
10		16.3100	17.01	10.23	27.24	50.00	-22.76	AVG
11		20.9300	27.26	10.16	37.42	60.00	-22.58	QP
12		20.9300	20.30	10.16	30.46	50.00	-19.54	AVG

^{*:}Maximum data x:Over limit !:over margin



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EUT:	Smart Socket	Model Name :	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral	THU:	
Test Mode:	TX B Mode	THE PARTY OF THE P	THE PARTY OF THE P
Remark:	Only worse cas	e is reported	7:33
40	Manual Ma	maderalas de la manda de la compansa	AVG: —

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB	dBu∨	dBu∀	dB	Detector
1	*	0.1607	48.33	9.94	58.27	65.42	-7.15	QP
2		0.1607	29.77	9.94	39.71	55.42	-15.71	AVG
3		0.2260	40.64	10.02	50.66	62.59	-11.93	QP
4		0.2260	24.08	10.02	34.10	52.59	-18.49	AVG
5		0.3500	37.91	10.02	47.93	58.96	-11.03	QP
6		0.3500	20.88	10.02	30.90	48.96	-18.06	AVG
7		0.5220	31.97	10.03	42.00	56.00	-14.00	QP
8		0.5220	14.65	10.03	24.68	46.00	-21.32	AVG
9		16.0260	24.34	10.24	34.58	60.00	-25.42	QP
10		16.0260	16.55	10.24	26.79	50.00	-23.21	AVG
11		20.9500	26.93	10.16	37.09	60.00	-22.91	QP
12		20.9500	20.28	10.16	30.44	50.00	-19.56	AVG

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



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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)

Frequency	Class A (dBuV	/m)(at 3 M)	Class B (dBuV/m)(at 3 M		
(MHz)	Peak	Average	Peak	Average	
Above 1000	80	60	74	54	

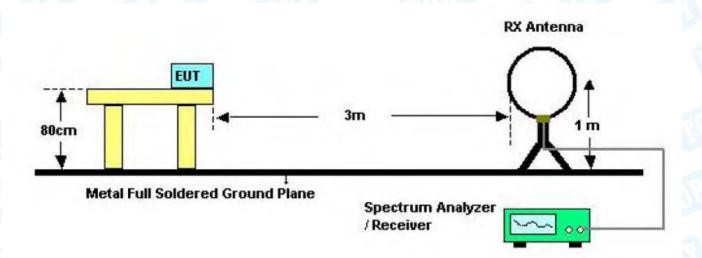
Note:

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

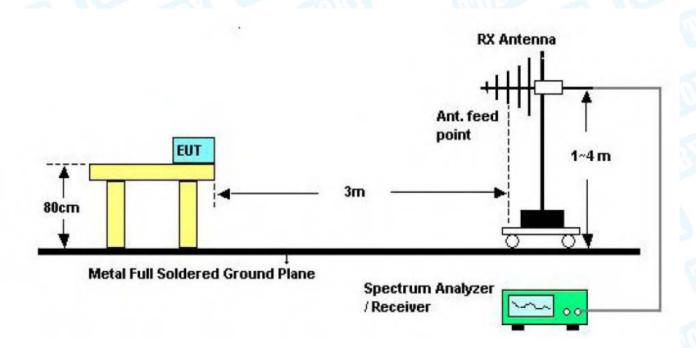


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5.2 Test Setup



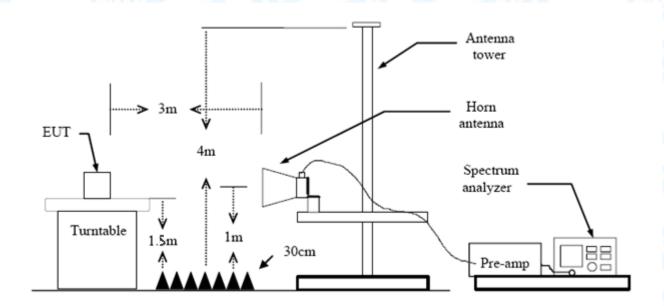
Below 30MHz Test Setup



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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(RF)FCC 15C 3M Radiation Margin -6 dB
Margin -6 dB
300 400 500 600 700 1000.00
sure- _{nt} Limit Over
V/m dBuV/m dB Detecto
.18 43.50 -23.32 peal
.76 46.00 -11.24 peal
.80 46.00 -10.20 peal
.43 46.00 -10.57 peal
21 46.00 -4.79 peal



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EUT:	Smart Socket	Mo	Model: Relative Humidity:			
Temperature:	25 ℃	Re				
Test Voltage:	AC 120V/60Hz	The same	10	Call	1133	
Ant. Pol.	Vertical		I[D]			
Test Mode:	TX B Mode 2412MHz					No.
Remark:	Only worse case	is reported			13	
80.0 dBuV/m						
				(RF)FCC 1	15C 3M Radiation	
					Margin -6	dB
					5 6 * *	
30 1 X ₁₀ 2	3 ×		4 , *		1, 111111111	
MAN WE	h Mark					
1 197 14 1 1 1 1 1 1 1 1 1 1 1	ALL ALL PROPERTY OF A STATE OF		1 (1.14 - 11)			
A Malaw	ha Johnson Johnson May Market May	hallen frankriger	AND WASHINGTON	المرابا المرابات المعمد	1	
W. A. J. C.	hand have a man	HAMILIAN MANAGER	Mary Mary	المتعدد الربار المتعادد		
* ***		hilling on providing which we	Mary Mary Mary Mary Mary Mary Mary Mary	ward land a start of the same		
30		hard brown of the state of the	part " Van	haran landar land		
-20 30.000 40 50	60 70 80	(MHz)	300		500 600 700	1000.00
	60 70 80		300		500 600 700	1000.00
30.000 40 50		(MHz) Correct Factor	300 Measure-		500 600 700 Over	1000.00
30.000 40 50 No. Mk. Fr	60 70 80 Reading	Correct	300 Measure- ment	400 5	Over	1000.00
30.000 40 50 No. Mk. Fr	Reading Level	Correct Factor	300 Measure- ment	400 s	Over	
No. Mk. Fr	Reading Level Hz dBuV 454 40.41	Correct Factor	Measure- ment dBuV/m	400 s Limit	Over dB -14.01	Detecto
No. Mk. Fr M 1 30.7 2 45.8	Reading Level Hz dBuV 454 40.41	Correct Factor dB/m -14.42	Measure- ment dBuV/m 25.99	400 s Limit dBuV/m 40.00	Over dB -14.01	Detecto peak peak
No. Mk. Fr M 1 30.7 2 45.8	Reading Level Hz dBuV 7454 40.41 3551 44.16 0284 47.91	Correct Factor dB/m -14.42 -22.64	Measure- ment dBuV/m 25.99 21.52	400 5 Limit dBuV/m 40.00 40.00	Over dB -14.01 -18.48	Detecto peak peak peak
No. Mk. Fr M 1 30.7 2 45.8 3 109.0 4 297.3	Reading Level Hz dBuV 7454 40.41 3551 44.16 0284 47.91	Correct Factor dB/m -14.42 -22.64 -21.86	300 Measure- ment dBuV/m 25.99 21.52 26.05	400 E Limit dBuV/m 40.00 40.00 43.50	Over dB -14.01 -18.48 -17.45 -18.50	Detecto peal peal peal peal
No. Mk. Fr 1 30.7 2 45.8 3 109.0 4 297.2 5 * 568.0	Reading Level Hz dBuV 7454 40.41 8551 44.16 0284 47.91 2241 44.64	Correct Factor dB/m -14.42 -22.64 -21.86 -17.14	300 Measure- ment dBuV/m 25.99 21.52 26.05 27.50	400 E Limit dBuV/m 40.00 40.00 43.50 46.00	Over dB -14.01 -18.48 -17.45 -18.50 -7.54	Detecto



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EUT:	Smart Socket	M	odel:	XM-	JPK1S	
Temperature:	25 ℃	R	elative Humidity	: 55%	ó	11/1/16
Test Voltage:	AC 120V/60H	z	8.0	(AIII)	133	
Ant. Pol.	Horizontal	a little		630	1	
Test Mode:	TX B Mode 24	437MHz	MILES			Jack Property of the Parket
Remark:	Only worse ca	ase is reported		$\Pi^{(k)}$		
80.0 dBuV/m						
			ļ.,,	DEVEOR 450	01 D E C	
				REJECC 15C	3M Radiation Margin -6	
				3	5 4 X	
30			2 *	Ĭ	X I I I	ř ,
30		1.				
			- houle	J		MACLAM
MAN ALLE		ا کا مملی ا	I /laren lez/hall. at	. Alaki hali katila	, May ,	
Moral affection who converse on the and represent	not make the same of the same	Mary Mary Mary Commences	where we have a factor of the state of the s	" ~ Whill help and	T KN	
March Safet Charles and a second and a shall also	and many many	Mary Mary Company Company	Market Company	a soft first trees.	- CASITY	
March after that and any have for the first	and the same of th	Mary Comments of the State of t	Mary Wall	. July House	T GAT	
20	And the second	AND THE PROPERTY OF THE PROPER	Andrew Market	Andreal trees.	T (M)	
20	60 70 80	MHz)		400 500	600 700	1000.0
30.000 40 50	Readir	ng Correct	Measure-			1000.0
30.000 40 50 No. Mk. Fre	Readir eq. Level	ng Correct I Factor	Measure- ment Li	mit	Over	
30.000 40 50 No. Mk. Fre	Readir eq. Level	ng Correct I Factor	Measure- ment Li	mit BuV/m	Over	Detecto
No. Mk. Fre	Readir eq. Level tz dBuV 414 41.83	Correct Factor dB/m 3 -20.65	Measurement Li dBuV/m dE 21.18 4	mit Bu∀/m 3.50	Over dB -22.32	Detecto peal
No. Mk. Fre	Readir eq. Level dz dBuV 414 41.83 241 50.40	Correct Factor dB/m 3 -20.65 0 -17.14	Measurement Li dBuV/m dE 21.18 4 33.26 4	mit BuV/m 3.50 6.00	Over dB -22.32 -12.74	Detecto peal peal
No. Mk. Fre	Readir eq. Level dz dBuV 414 41.83 241 50.40	Correct Factor dB/m 3 -20.65 0 -17.14	Measurement Li dBuV/m dE 21.18 4 33.26 4	mit Bu∀/m 3.50	Over dB -22.32	Detecto peal peal
No. Mk. Fre	Readir Level dz dBuV 414 41.83 241 50.40 880 49.63	Correct Factor dB/m 3 -20.65 0 -17.14 3 -12.83	Measurement Li dBuV/m dE 21.18 4 33.26 4 36.80 4	mit BuV/m 3.50 6.00	Over dB -22.32 -12.74	Detector peal peal
No. Mk. Fre	Readir Level dBuV 414 41.83 241 50.40 880 49.63	Correct Factor dB/m 3 -20.65 0 -17.14 3 -12.83 9 -10.13	Measurement Li dBuV/m dE 21.18 4 33.26 4 36.80 4 36.96 4	mit 3.50 6.00	Over dB -22.32 -12.74 -9.20	Detector peal peal peal
No. Mk. Free MH 1 162.0 2 297.2 3 406.0 4 568.6	Readir Level dz dBuV 414 41.83 241 50.40 880 49.63 127 47.09	Correct Factor dB/m 3 -20.65 0 -17.14 3 -12.83 9 -10.13 5 -7.54	Measurement Li dBuV/m dE 21.18 4 33.26 4 36.80 4 36.96 4 41.21 4	mit 3.50 6.00 6.00	Over dB -22.32 -12.74 -9.20 -9.04	Detector peal peal peal peal peal



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EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humi	dity: 55%		
Test Voltage:	AC 120V/60Hz				
Ant. Pol.	Vertical				
Test Mode:	TX B Mode 2437M	Hz	A MILLIAN		
Remark:	Only worse case is	reported			
80.0 dBuV/m					
30	2 X X X X X X X X X X X X X X X X X X X		(RF)FCC 15C 3M Radiation Margin -5 dB * 5 8 X X X		
30.000 40 50	60 70 80	(MHz) 300	400 500 600 700 1000.00		
No. Mk. Fr	Reading req. Level	Correct Measure- Factor ment	Limit Over		
М	lHz dBuV	dB/m dBuV/m	dBuV/m dB Detecto		
1 32.1	1794 40.55	-15.31 25.24	40.00 -14.76 peak		
2 109.	0284 48.41	-21.86 26.55	43.50 -16.95 peak		
3 297.:	2241 44.64	-17.14 27.50	46.00 -18.50 peak		
4 ! 568.0	6127 51.09	-10.13 40.96	46.00 -5.04 peak		
	8899 49.61	-8.60 41.01	46.00 -4.99 peak		
	2078 49.21	-7.54 41.67	46.00 -4.33 peak		
*:Maximum data x:O	Over limit !:over margin		·		



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EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		aniss
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MH	lz	
Remark:	Only worse case is i	reported	1:35
80.0 dBuV/m			
		(RF	F)FCC 15C 3M Radiation Margin -6 dB
30 Market Market Market	Market and the second	A Same Andrew Control of the Control	* * * * * * * * * * * * * * * * * * *
-20 30.000 40 50	60 70 80	(MHz) 300 401	0 500 600 700 1000.00
No. Mk. F	-	Correct Measure- Factor ment Lim	nit Over
N	1Hz dBuV	dB/m dBuV/m dBu	V/m dB Detecto
1 297.	2241 50.40 -	17.14 33.26 46	.00 -12.74 peak
2 406.	0880 47.63 -	12.83 34.80 46	.00 -11.20 peak
3 622.	8899 45.03 ·	-8.60 36.43 46	.00 -9.57 peak
	2070 40.75	-7.54 42.21 46	.00 -3.79 peak
4 * 675.	.2078 49.75 -	-1.54 42.21 40	
			.00 -7.78 peak



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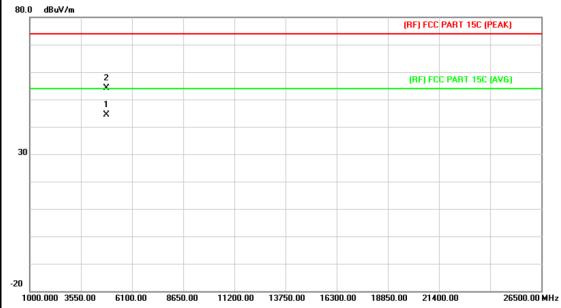
EUT:	Smart Sock	tet	Model:		XM	-JPK1S	
Temperature:	25 ℃		Relative Hum	idity:	55%	%	18.
Test Voltage:	AC 120V/60)Hz	20	6	(III)	13.9	
Ant. Pol.	Vertical						
Test Mode:	TX B Mode	2462MHz	MILE			N HIS	La Company
Remark:	Only worse	case is reporte	ed	611		3	
80.0 dBuV/m							
-20	2 × ×	Mark deployment from the second	3	(RF)FC		Margin - 6 d	
30.000 40 50	60 70 80	(MHz)	300	400	500	600 700	1000.000
No. Mk. F	Rea	-		Limi	it	Over	
	/IHz dB	uV dB/m	dBuV/m	dBu∖	//m	dB	Detector
1 32.	1794 40.	05 -15.31	24.74	40.0	00	-15.26	peak
2 94.	7600 46.	03 -22.28	23.75	43.	50	-19.75	peak
3 297	.2241 43.	64 -17.14	26.50	46.0	00	-19.50	peak
4 568	.6127 49.	59 -10.13	39.46	46.0	00	-6.54	peak
5 622	.8899 47.	61 -8.60	39.01	46.0	00	-6.99	peak
6 * 675	.2078 48.	21 -7.54	40.67	46.0	00	-5.33	peak

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



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2412MHz		The same of the sa				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

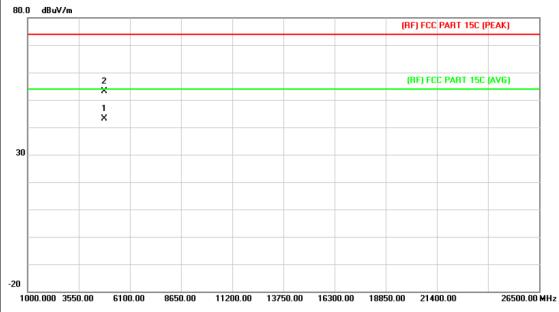


	۷o.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4823.352	36.12	8.19	44.31	54.00	-9.69	AVG
2			4823.841	46.05	8.19	54.24	74.00	-19.76	peak



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2412MHz		The same of the sa				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

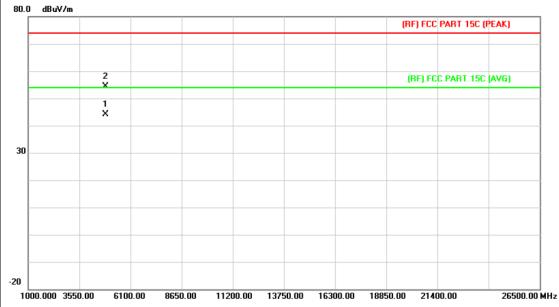


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.781	34.95	8.19	43.14	54.00	-10.86	AVG
2		4823.854	44.82	8.19	53.01	74.00	-20.99	peak



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Smart Socket	Model:	XM-JPK1S				
25 ℃	Relative Humidity:	55%				
AC 120V/60Hz	AC 120V/60Hz					
Horizontal						
TX B Mode 2437MHz						
No report for the emission which more than 10 dB below the						
prescribed limit.	N 13					
	25 °C AC 120V/60Hz Horizontal TX B Mode 2437MHz No report for the emission	25 °C Relative Humidity: AC 120V/60Hz Horizontal TX B Mode 2437MHz No report for the emission which more than 10 or				

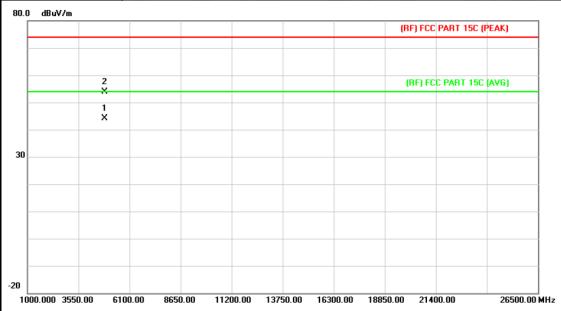


1	۷o.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4873.321	36.00	8.21	44.21	54.00	-9.79	AVG
2			4873.844	46.21	8.21	54.42	74.00	-19.58	peak



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical						
Test Mode:	TX B Mode 2437MHz		THE PARTY OF THE P				
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
1							

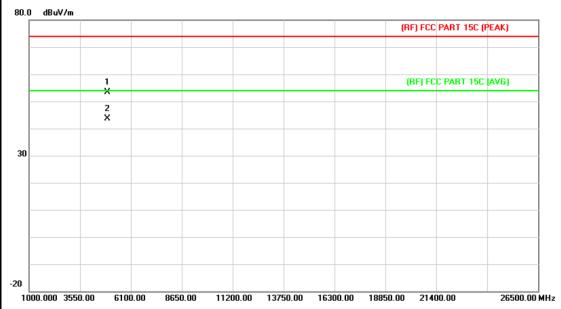


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.311	35.89	8.21	44.10	54.00	-9.90	AVG
2		4873.747	45.63	8.21	53.84	74.00	-20.16	peak



Page: 31 of 93

EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal						
Test Mode:	TX B Mode 2462MHz						
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

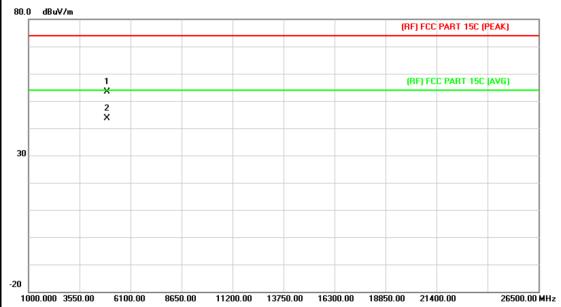


No	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.748	45.15	8.22	53.37	74.00	-20.63	peak
2	*	4923.875	35.29	8.22	43.51	54.00	-10.49	AVG



Page: 32 of 93

EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Vertical					
Test Mode:	TX B Mode 2462MHz	TX B Mode 2462MHz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					
i						

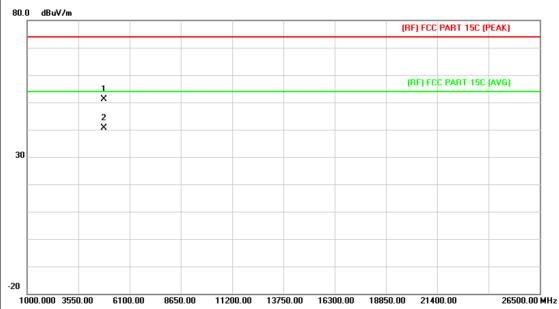


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.814	45.17	8.22	53.39	74.00	-20.61	peak
2	*	4923.847	35.43	8.22	43.65	54.00	-10.35	AVG



Page: 33 of 93

EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Horizontal					
Test Mode:	TX G Mode 2412MHz					
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.	لا مر مو				

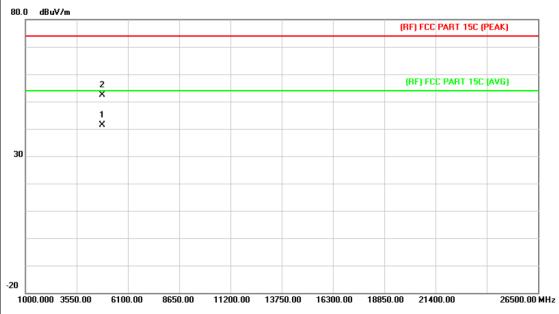


N	lo. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.577	42.95	8.19	51.14	74.00	-22.86	peak
2	*	4823.651	32.48	8.19	40.67	54.00	-13.33	AVG



Page: 34 of 93

EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical						
Test Mode:	TX G Mode 2412MHz	TX G Mode 2412MHz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.	لا مر س					
4							

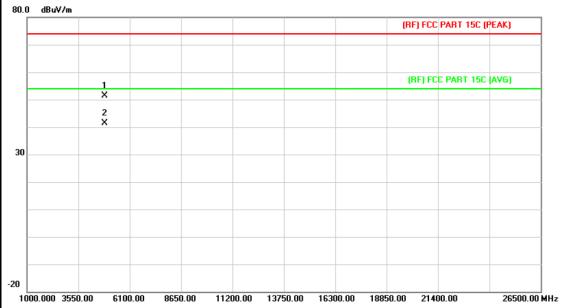


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.476	33.18	8.19	41.37	54.00	-12.63	AVG
2		4823.961	44.15	8.19	52.34	74.00	-21.66	peak



Page: 35 of 93

EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Horizontal	U.				
Test Mode:	TX G Mode 2437MHz					
Remark:	No report for the emission which more than 10 dB below the					
prescribed limit.						
i e e e e e e e e e e e e e e e e e e e						

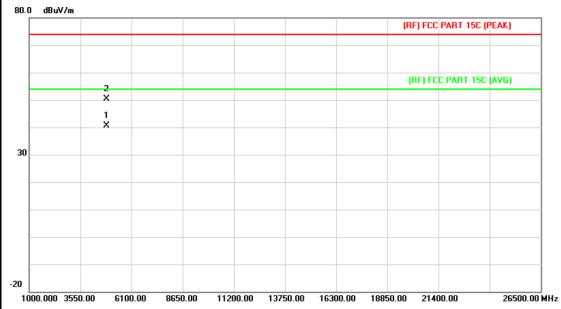


No	o. Mk	ι. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.584	43.13	8.21	51.34	74.00	-22.66	peak
2	*	4873.649	33.06	8.21	41.27	54.00	-12.73	AVG



Page: 36 of 93

EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz				
Ant. Pol.	Vertical				
Test Mode:	TX G Mode 2437MHz				
Remark:	No report for the emission which more than 10 dB below the				
	prescribed limit.	لا مر مو			

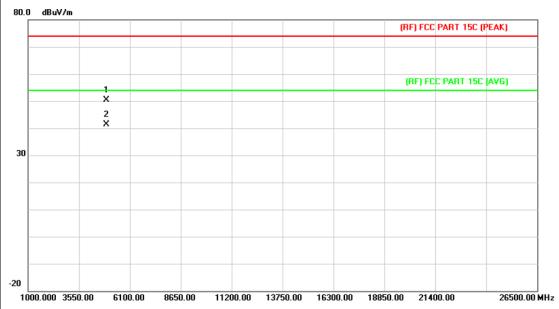


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.367	32.44	8.21	40.65	54.00	-13.35	AVG
2		4873.621	42.16	8.21	50.37	74.00	-23.63	peak



Page: 37 of 93

EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz	01 - 6			
Ant. Pol.	Horizontal				
Test Mode:	TX G Mode 2462MHz	WILL STATE OF THE			
Remark:	No report for the emission which more than 10 dB below the				
	prescribed limit.	2 13 V3			
Test Mode:	TX G Mode 2462MHz No report for the emissio	n which more than 10 c	dB below the		

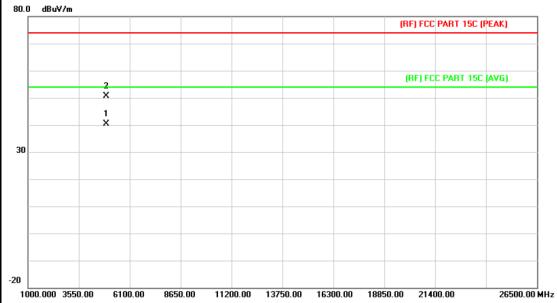


١	No. M	k. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.367	42.12	8.22	50.34	74.00	-23.66	peak
2	*	4923.649	33.06	8.22	41.28	54.00	-12.72	AVG



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Smart Socket	Model:	XM-JPK1S				
25 ℃	Relative Humidity:	55%				
AC 120V/60Hz	AC 120V/60Hz					
Vertical						
TX G Mode 2462MHz		A LIVE				
No report for the emission which more than 10 dB below the						
prescribed limit.						
	25 °C AC 120V/60Hz Vertical TX G Mode 2462MHz No report for the emission	25 °C Relative Humidity: AC 120V/60Hz Vertical TX G Mode 2462MHz No report for the emission which more than 10 compared to the compared to				

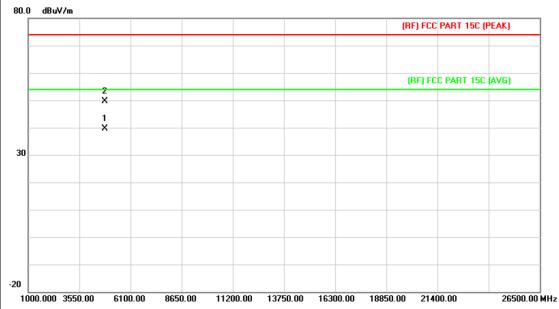


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.643	32.11	8.22	40.33	54.00	-13.67	AVG
2		4923.755	42.45	8.22	50.67	74.00	-23.33	peak



Page: 39 of 93

EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT20) Mode 2412N	ИНz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

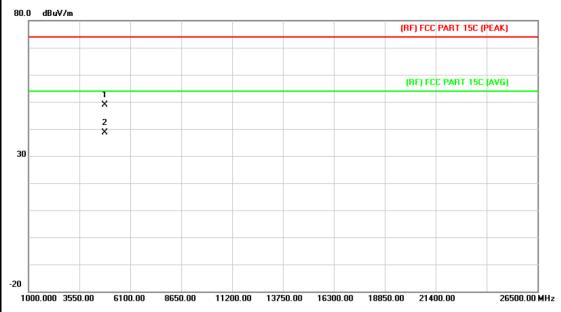


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.145	31.48	8.19	39.67	54.00	-14.33	AVG
2		4823.336	41.42	8.19	49.61	74.00	-24.39	peak



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2412	MHz	THE PARTY OF THE P				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

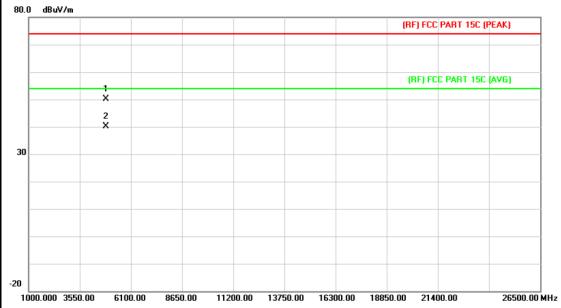


No	. Mk.	Freq.			Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.614	40.70	8.19	48.89	74.00	-25.11	peak
2	*	4823.812	30.55	8.19	38.74	54.00	-15.26	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2437	ИНz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

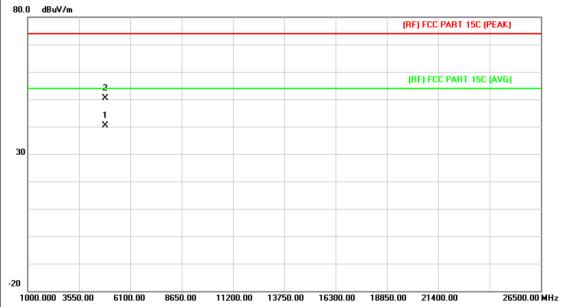


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.347	41.91	8.21	50.12	74.00	-23.88	peak
2	*	4873.479	32.00	8.21	40.21	54.00	-13.79	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Vertical	Vertical				
Test Mode:	TX N(HT20) Mode 2437N	ИНz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

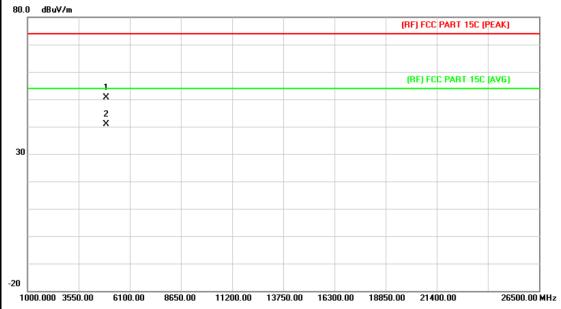


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.314	32.14	8.21	40.35	54.00	-13.65	AVG
2		4873.418	42.06	8.21	50.27	74.00	-23.73	peak



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT20) Mode 2462N	ИНz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						
a a constant of the constant o							

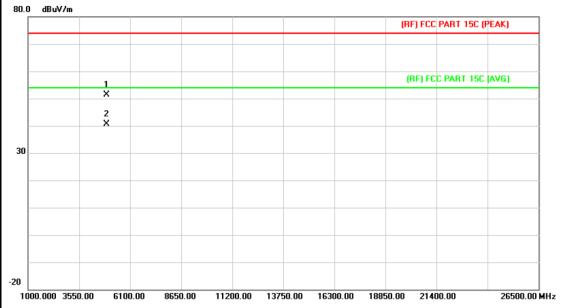


No	. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.649	42.42	8.22	50.64	74.00	-23.36	peak
2	*	4923.843	32.59	8.22	40.81	54.00	-13.19	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT20) Mode 2462N	ИНz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						
a a constant of the constant o							

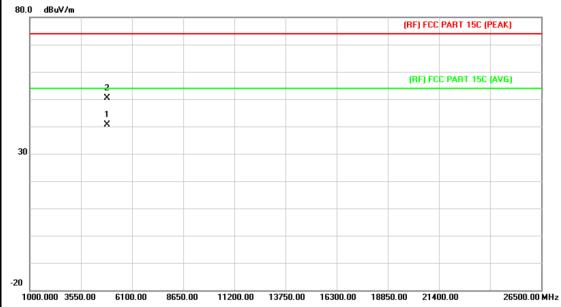


N	lo. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.614	43.15	8.22	51.37	74.00	-22.63	peak
2	*	4923.637	32.37	8.22	40.59	54.00	-13.41	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT40) Mode 2422N	ИНz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						
a a constant of the constant o							

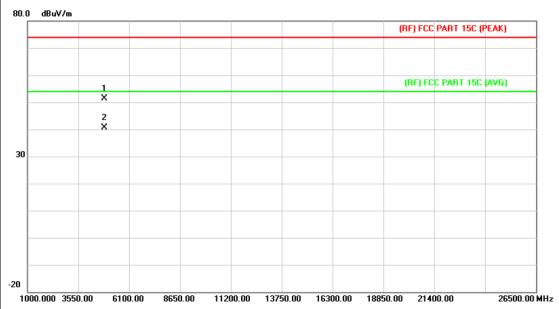


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.458	32.46	8.20	40.66	54.00	-13.34	AVG
2		4843.617	42.28	8.20	50.48	74.00	-23.52	peak



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2422l	ИНz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						

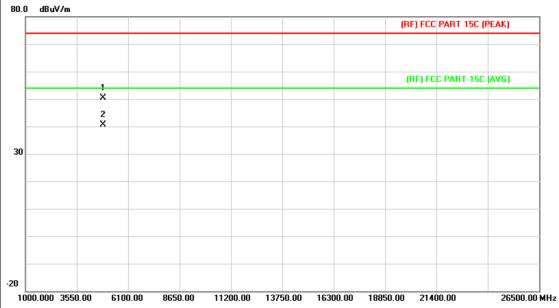


No	. Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.337	43.29	8.20	51.49	74.00	-22.51	peak
2	*	4843.449	32.37	8.20	40.57	54.00	-13.43	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX N(HT40) Mode 2437	ИНz				
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

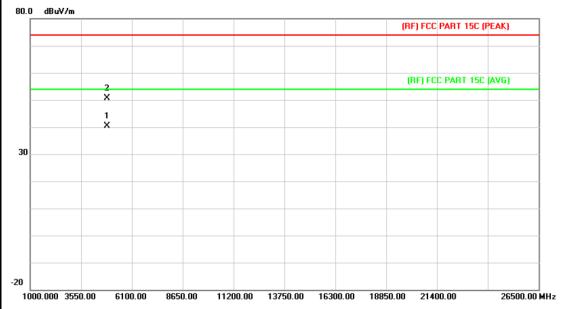


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.496	42.27	8.21	50.48	74.00	-23.52	peak
2	*	4873.547	32.45	8.21	40.66	54.00	-13.34	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2437N	ИHz	A THURSDAY				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

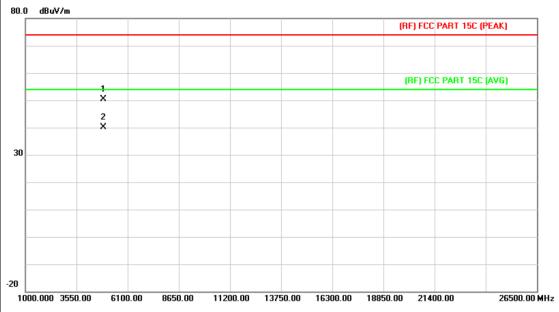


N	o. MI	κ. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.368	32.15	8.21	40.36	54.00	-13.64	AVG
2		4873.597	42.46	8.21	50.67	74.00	-23.33	peak



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX N(HT40) Mode 2452I	TX N(HT40) Mode 2452MHz					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the					
	prescribed limit.						
· ·							

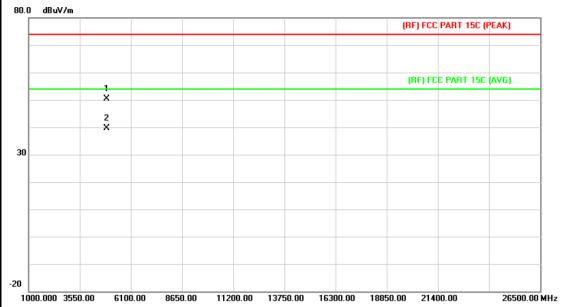


N	lo. M	k. Freq.	Reading Level		Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.551	42.16	8.21	50.37	74.00	-23.63	peak
2	*	4903.649	31.97	8.21	40.18	54.00	-13.82	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX N(HT40) Mode 2452N	ИНz					
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.	P _ 13					
a a constant of the constant o							



No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.367	42.27	8.21	50.48	74.00	-23.52	peak
2	*	4903.579	31.43	8.21	39.64	54.00	-14.36	AVG



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6. Restricted Bands Requirement

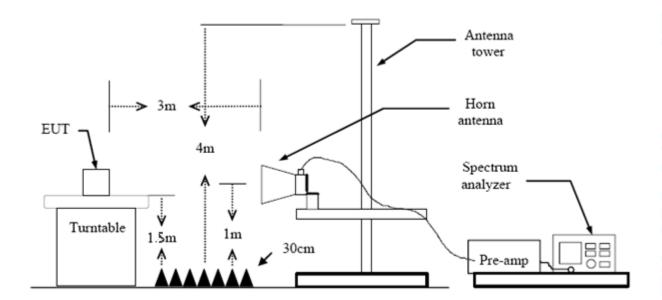
6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Class B (dB	BuV/m)(at 3 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.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.



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(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

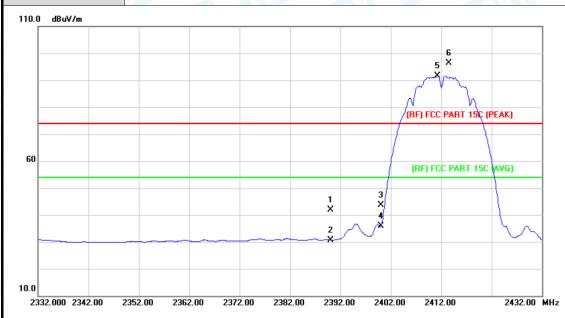
Please see the next page.



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(1) Radiation Test

EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	U	
Ant. Pol.	Horizontal		A MILLS
Test Mode:	TX B Mode 2412MHz		1:33
Remark:	N/A		

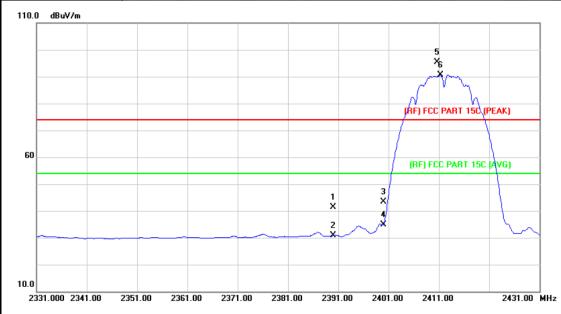


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.14	0.77	41.91	74.00	-32.09	peak
2		2390.000	29.98	0.77	30.75	54.00	-23.25	AVG
3		2400.000	42.73	0.81	43.54	Fundamental	Frequency	peak
4		2400.000	34.98	0.81	35.79	Fundamental	Frequency	AVG
5	*	2411.300	90.80	0.86	91.66	54.00	37.66	AVG
6	Χ	2413.500	95.55	0.86	96.41	74.00	22.41	peak



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EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
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	40.69	0.77	41.46	74.00	-32.54	peak
2		2390.000	30.04	0.77	30.81	54.00	-23.19	AVG
3		2400.000	42.66	0.81	43.47	Fundamenta	I Frequency	peak
4		2400.000	34.02	0.81	34.83	Fundamental	I Frequency	AVG
5	Χ	2410.700	94.60	0.86	95.46	74.00	21.46	peak
6	*	2411.300	89.88	0.86	90.74	54.00	36.74	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	est Voltage: AC 120V/60Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX B Mode 2462MHz					
Remark:	N/A		1:33			
110.0 dBuV/m						
	1 X					
, / '		(RF)	FCC PART 15C (PEAK)			

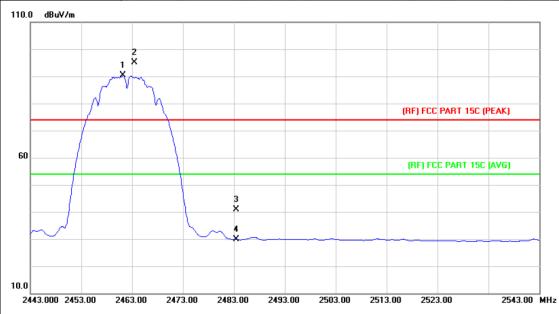
		Y.	my -						
		\mathcal{N}	Λ				(RF) FCC	PART 15C (P	EAK)
50									
"							(RF) FC	C PART 15C (AVG)
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.0									

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.200	91.15	1.07	92.22	Fundamenta	l Frequency	AVG
2	Х	2463.500	95.83	1.08	96.91	Fundamenta	I Frequency	peak
3		2483.500	41.33	1.17	42.50	74.00	-31.50	peak
4		2483.500	29.40	1.17	30.57	54.00	-23.43	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		1:33 _ [

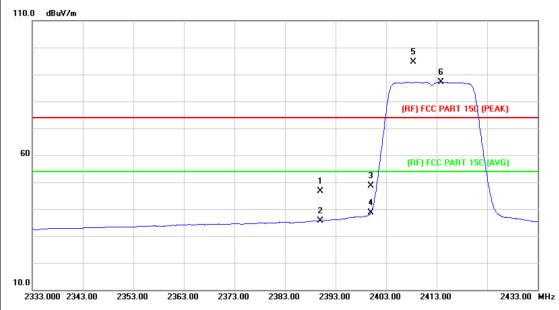


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.200	89.19	1.07	90.26	Fundamenta	I Frequency	AVG
2	Х	2463.400	93.93	1.08	95.01	Fundamenta	I Frequency	peak
3		2483.500	39.67	1.17	40.84	74.00	-33.16	peak
4		2483.500	28.69	1.17	29.86	54.00	-24.14	AVG



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į,	EUT:	Smart Socket	Model:	XM-JPK1S
	Temperature:	25 ℃	Relative Humidity:	55%
	Test Voltage:	AC 120V/60Hz		
	Ant. Pol.	Horizontal		
4	Test Mode:	TX G Mode 2412MHz		
	Remark:	N/A		

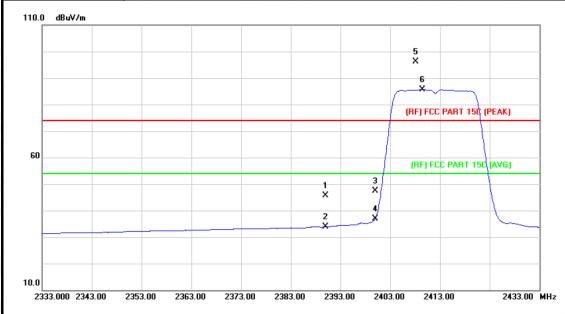


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.96	0.77	46.73	74.00	-27.27	peak
2		2390.000	34.88	0.77	35.65	54.00	-18.35	AVG
3		2400.000	47.85	0.81	48.66	 Fundamenta	l Frequency	peak
4		2400.000	37.87	0.81	38.68	Fundamenta	Frequency	AVG
5	Χ	2408.400	93.83	0.85	94.68	74.00	20.68	peak
6	*	2413.800	86.37	0.86	87.23	54.00	33.23	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		1:33

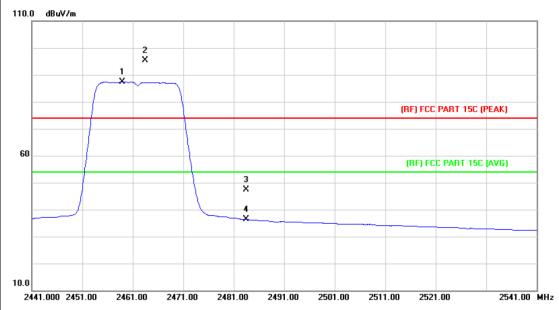


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.86	0.77	45.63	74.00	-28.37	peak
2		2390.000	33.14	0.77	33.91	54.00	-20.09	AVG
3		2400.000	46.64	0.81	47.45	Fundamental	Frequency	peak
4		2400.000	36.15	0.81	36.96	Fundamental	Frequency	AVG
5	Χ	2408.200	95.17	0.85	96.02	74.00	22.02	peak
6	*	2409.400	84.77	0.85	85.62	54.00	31.62	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	01 - 6	
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		THE PARTY OF
Remark:	N/A		1:33
	Temperature: Test Voltage: Ant. Pol. Test Mode:	Temperature:25 °CTest Voltage:AC 120V/60HzAnt. Pol.HorizontalTest Mode:TX G Mode 2462MHz	Temperature:25 °CRelative Humidity:Test Voltage:AC 120V/60HzAnt. Pol.HorizontalTest Mode:TX G Mode 2462MHz

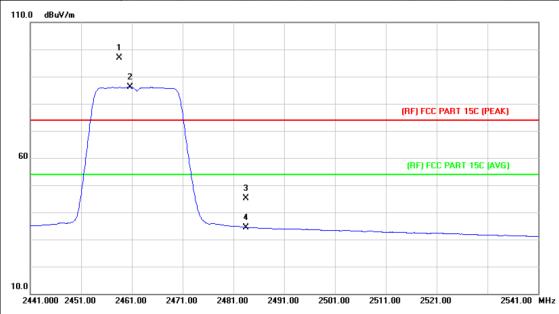


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2458.900	86.33	1.06	87.39	Fundamenta	Frequency	AVG
2	Х	2463.400	94.23	1.08	95.31	Fundamental	Frequency	peak
3		2483.500	46.29	1.17	47.46	74.00	-26.54	peak
4		2483.500	35.14	1.17	36.31	54.00	-17.69	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		

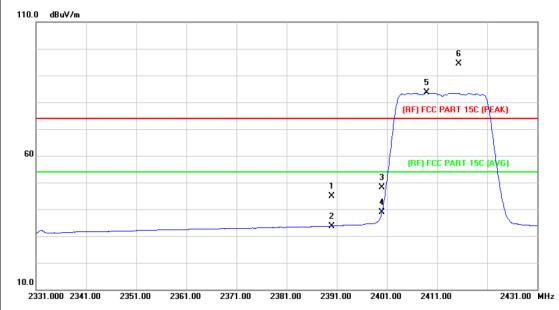


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2458.600	95.77	1.06	96.83	Fundamental	Frequency	peak
2	*	2460.700	85.11	1.06	86.17	Fundamental	Frequency	AVG
3		2483.500	43.87	1.17	45.04	74.00	-28.96	peak
4		2483.500	33.23	1.17	34.40	54.00	-19.60	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT20) Mode 2412	ИНz				
Remark:	N/A					

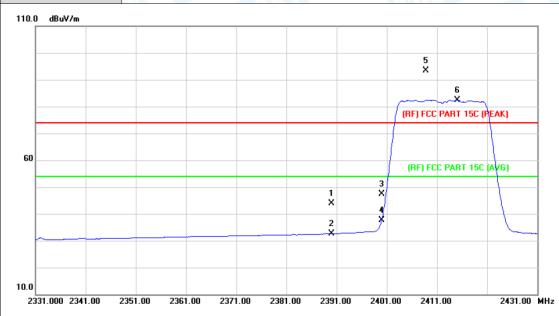


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.05	0.77	44.82	74.00	-29.18	peak
2		2390.000	32.98	0.77	33.75	54.00	-20.25	AVG
3		2400.000	47.21	0.81	48.02	Fundamenta	l Frequency	peak
4		2400.000	38.06	0.81	38.87	Fundamenta	l Frequency	AVG
5	*	2408.900	82.69	0.85	83.54	54.00	29.54	AVG
6	Χ	2415.300	93.56	0.88	94.44	74.00	20.44	peak



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EUT:	Smart Socket	Model:	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412	ИHz	
Remark:	N/A		1:33

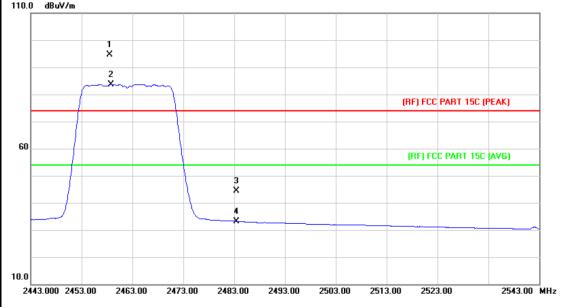


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.02	0.77	43.79	74.00	-30.21	peak
2		2390.000	31.86	0.77	32.63	54.00	-21.37	AVG
3		2400.000	46.55	0.81	47.36	Fundamental	Frequency	peak
4		2400.000	36.94	0.81	37.75	Fundamental	Frequency	AVG
5	Χ	2408.800	92.52	0.85	93.37	74.00	19.37	peak
6	*	2415.000	81.55	0.88	82.43	54.00	28.43	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	7/60Hz					
Ant. Pol. Horizontal							
Test Mode:	TX N(HT20) Mode 2	2462MHz					
Remark:	N/A		1:33				
110.0 dBuV/m							
	2						

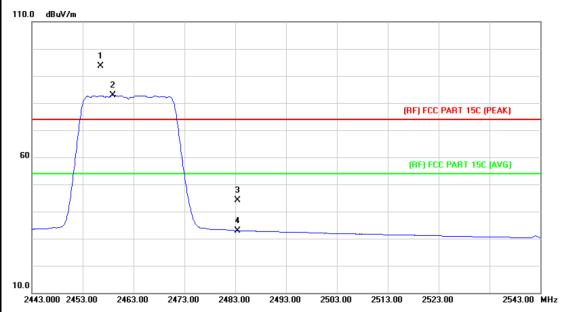


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2458.600	93.52	1.06	94.58	Fundamental	Frequency	peak
2	*	2458.800	82.69	1.06	83.75	Fundamental	Frequency	AVG
3		2483.500	43.17	1.17	44.34	74.00	-29.66	peak
4		2483.500	32.02	1.17	33.19	54.00	-20.81	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Ant. Pol.	Vertical					
Test Mode:	TX N(HT20) Mode 2462N	ИНz				
Remark:	N/A					

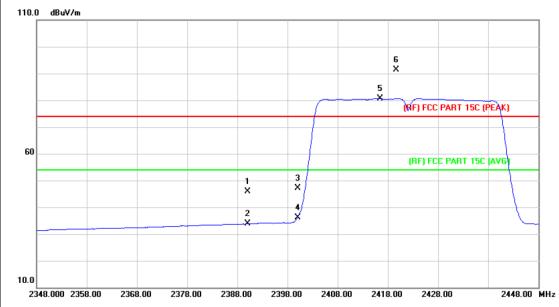


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2456.600	92.56	1.05	93.61	Fundamental	Frequency	peak
2	*	2458.900	81.82	1.06	82.88	Fundamenta	Frequency	AVG
3		2483.500	43.04	1.17	44.21	74.00	-29.79	peak
4		2483.500	31.80	1.17	32.97	54.00	-21.03	AVG



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EUT:	Smart Socket	Model:	XM-JPK1S			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Horizontal					
Test Mode:	TX N(HT40) Mode 2422N	TX N(HT40) Mode 2422MHz				
Remark:	N/A					

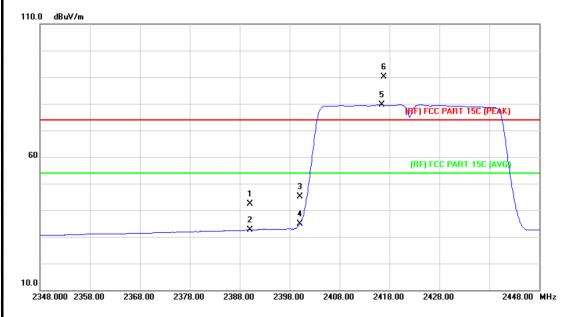


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.01	0.77	45.78	74.00	-28.22	peak
2		2390.000	33.04	0.77	33.81	54.00	-20.19	AVG
3		2400.000	46.43	0.81	47.24	Fundament	al Frequency	peak
4		2400.000	35.34	0.81	36.15	Fundament	al Frequency	AVG
5	*	2416.500	79.79	0.88	80.67	54.00	26.67	AVG
6	Χ	2419.700	90.61	0.89	91.50	74.00	17.50	peak



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EUT:	Smart Socket	Model:	XM-JPK1S				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Vertical						
Test Mode:	TX N(HT40) Mode 2422	TX N(HT40) Mode 2422MHz					
Remark:	N/A		1:32				

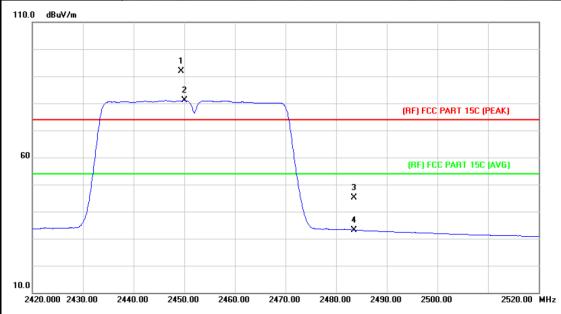


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.57	0.77	42.34	74.00	-31.66	peak
2		2390.000	31.86	0.77	32.63	54.00	-21.37	AVG
3		2400.000	44.24	0.81	45.05	Fundamenta	al Frequency	peak
4		2400.000	34.14	0.81	34.95	Fundamenta	al Frequency	AVG
5	*	2416.500	78.75	0.88	79.63	54.00	25.63	AVG
6	Χ	2416.800	89.32	0.88	90.20	74.00	16.20	peak



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EUT:	Smart Socket	Model: XM-JPK1S						
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz	C 120V/60Hz						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX N(HT40) Mode 2452	MHz						
Remark:	N/A							
110.0 dBuV/m								



No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2449.400	90.77	1.02	91.79	Fundamental	l Frequency	peak
2	*	2450.000	80.05	1.02	81.07	Fundamental	l Frequency	AVG
3		2483.500	44.00	1.17	45.17	74.00	-28.83	peak
4		2483.500	32.07	1.17	33.24	54.00	-20.76	AVG



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EUT:		Smart Socket			Model: X		XM-JPK1S	XM-JPK1S	
Temperature:		25 ℃		33	Relative Humidity: 5		55%	55%	
Test Voltage:		AC 12	AC 120V/60Hz			an section			
Ant. Pol. Vertical			11/1						
Test Mode: TX N(HT40) Mode 2452MHz Remark: N/A			N(HT40) Mode 2452MHz				Mesa		
			1	630	1:33				
110.0) dBuV/m								
				1 X 2 X			(RF)	FCC PART 15C (PEA	K)
60						3 X	(RF) FCC PART 15C (AV	G)
		/				4 ×			
10.0									
	20.000 243	0.00 2	440.00	2450.00 24	60.00 2470.	00 2480.00	2490.00	2500.00	2520.00 MI
	lo. Mk	. Fr	eq.	Reading Level	Correc Factor		≻ Limi	t Over	
	lo. Mk	. Fr		_					Detecto
	lo. Mk		- Hz	Level	Factor	m ent	Limi dBu\		Detecto
N		M	⊣z . 600	Level dBuV	Factor dB/m	ment dBuV/m	Limi dBu\ Fundam	//m dB	
1	Х	MH 2448	.600 .000	dBuV 89.73	dB/m 1.02	ment dBuV/m 90.75	Limi dBu\ Fundam	//m dB ental Frequency ental Frequency	peal AVG

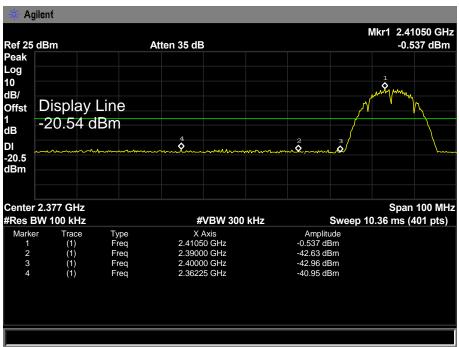


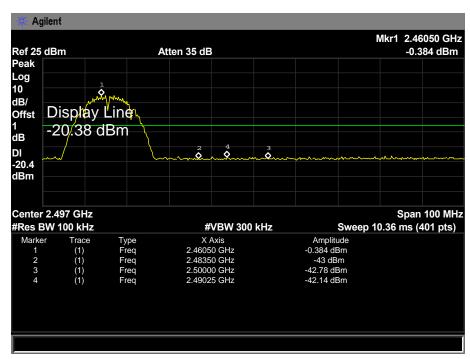


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(2) Conducted Test

EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz				
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz				
Remark:	The EUT is programed in continuously transmitting mode				



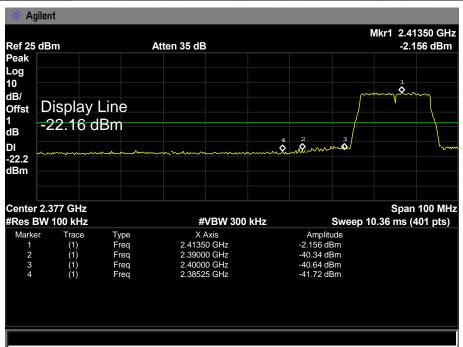


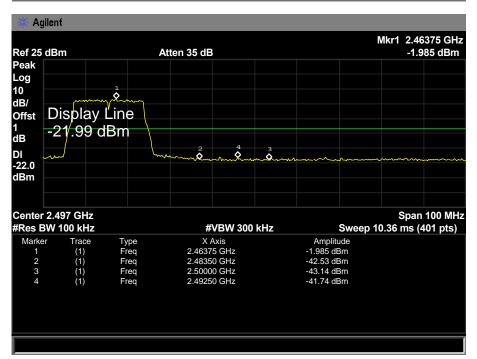


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EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz				
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz				
Remark:	The EUT is programed in continuously transmitting mode				

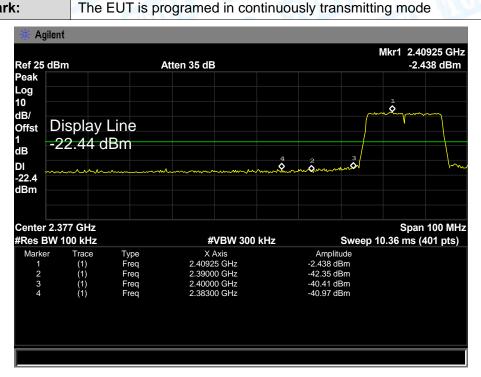


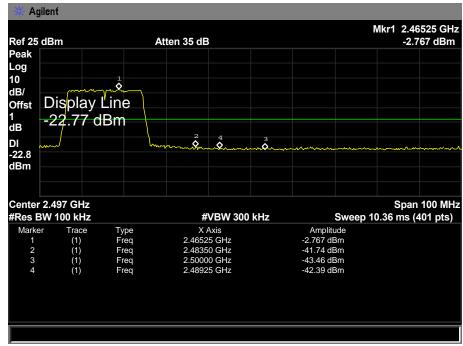




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		17:13			
EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz				
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz				
Remark:	The EUT is programed in continuously transmitting mode				



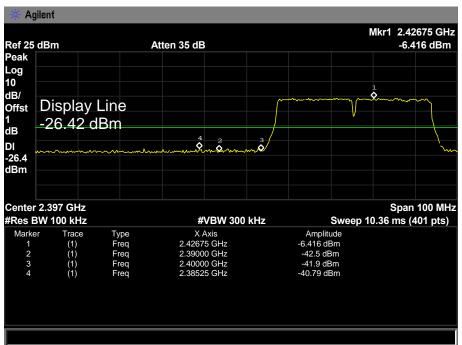


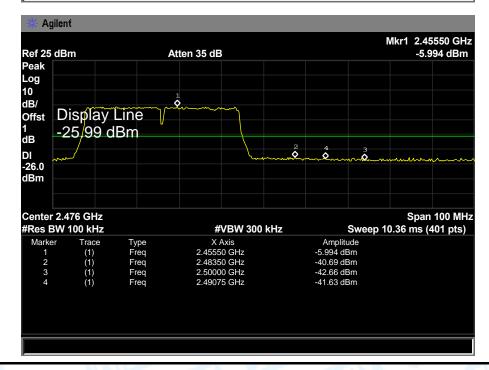




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EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz				
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz				
Remark:	The EUT is programed in continuously transmitting mode				







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7. Bandwidth Test

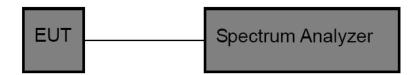
7.1 Test Standard and Limit

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	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.

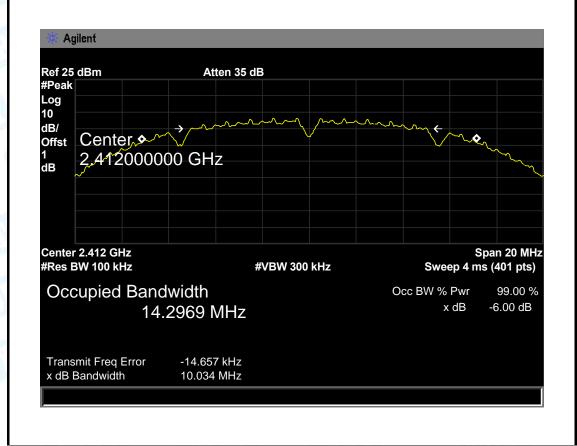


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7.5 Test Data

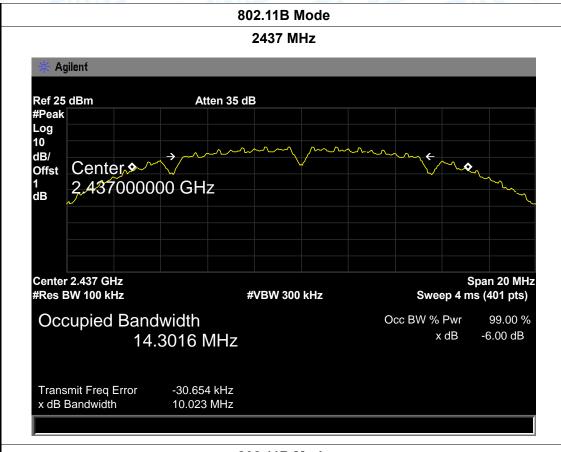
EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz		CITI'S D		
Test Mode:	TX 802.11B Mode				
Channel frequency 6dB Bandwidth		99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	10.034	14.2969			
2437	10.023	14.3016	>=0.5		
2462 10.033		14.2873			

802.11B Mode





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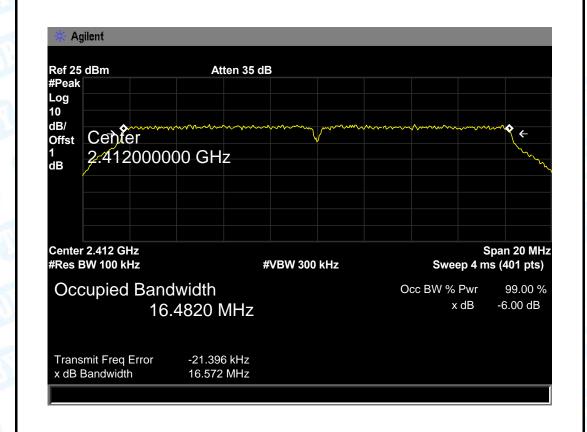


802.11B Mode 2462 MHz Agilent Ref 25 dBm Atten 35 dB #Peak Log 10 dB/ Center • Offst 1 dB 2,462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 14.2873 MHz Transmit Freq Error -33.673 kHz x dB Bandwidth 10.033 MHz



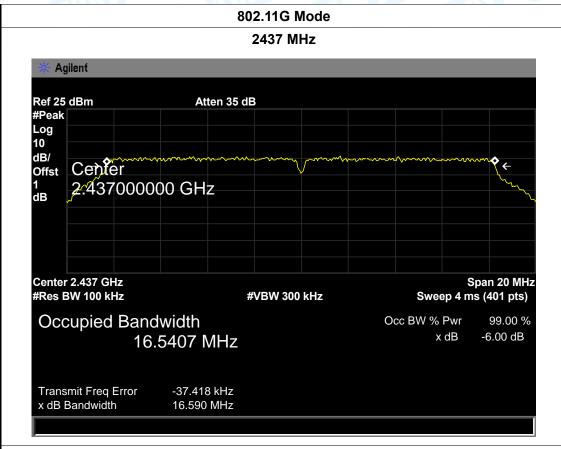
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EUT:	T: Smart Socket Model:		XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz	U.			
Test Mode:	TX 802.11G Mode				
Channel frequen	cy 6dB Bandwidth	99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	16.572	16.4820			
2437 16.590		16.5407	>=0.5		
2462 16.577		16.5355			
	802.11	G Mode	1		





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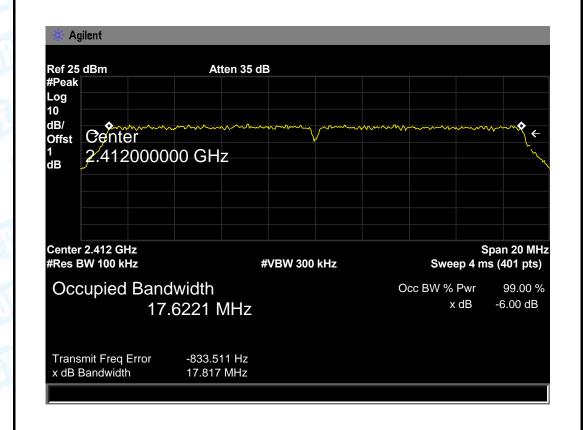
802.11G Mode 2462 MHz Agilent Ref 25 dBm Atten 35 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 16.5355 MHz Transmit Freq Error -34.420 kHz x dB Bandwidth 16.577 MHz



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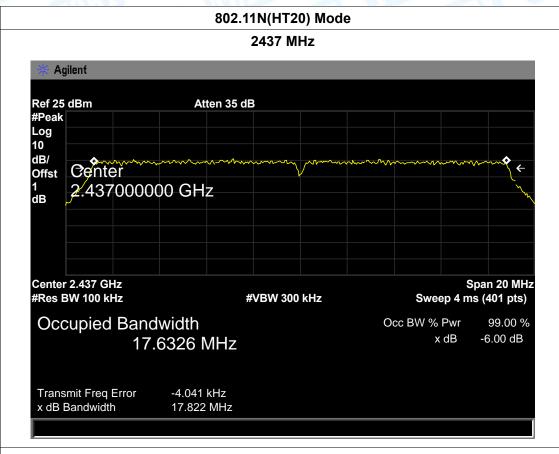
EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz	U.			
Test Mode:	TX 802.11N(HT20) Mode				
Channel frequen	cy 6dB Bandwidth	99% Bandwidth	Limit		
(MHz)	(MHz)	(MHz)	(MHz)		
2412	17.817	17.6221			
2437 17.822		17.6326	>=0.5		
2462 17.827		17.6364			
	802.11N(H	IT20) Mode			

2.11N(11120) IVIC





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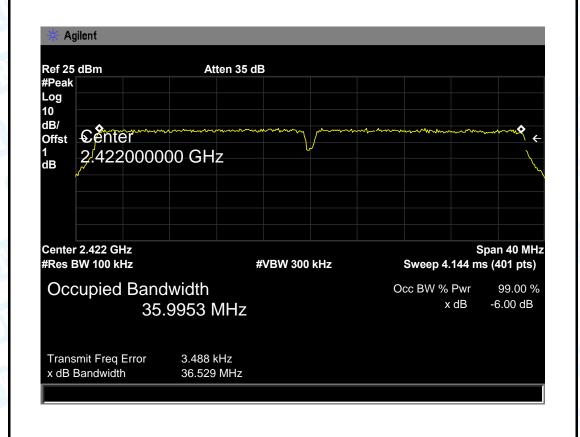


802.11N(HT20) Mode 2462 MHz Agilent Ref 25 dBm Atten 35 dB #Peak Log 10 dB/ Center Offst 1 dB 2.462000000 GHz Center 2.462 GHz Span 20 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 4 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 17.6364 MHz Transmit Freq Error -1.050 kHz x dB Bandwidth 17.827 MHz



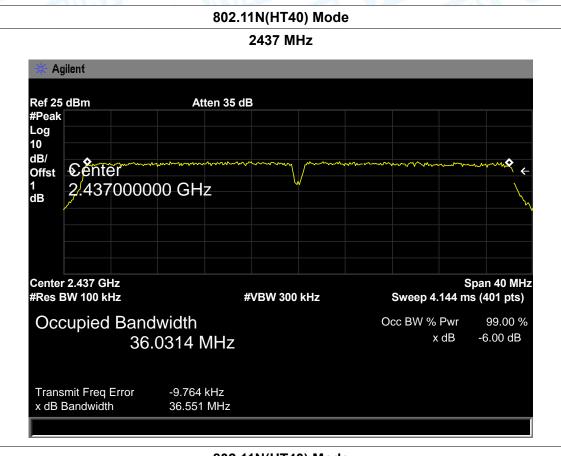
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EUT:	Smart Socket	Model:	XM-JPK1S		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz	131	THE		
Test Mode:	TX 802.11N(HT40) Mode				
Channel frequence	cy 6dB Bandwidth 99% Bandwidth Limit				
(MHz)	(MHz)	(MHz)	(MHz)		
2412	36.529	35.9953			
2437 36.551		36.0314	>=0.5		
2462 36.527		36.0194			
802.11N(HT40) Mode					





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802.11N(HT40) Mode 2452 MHz Agilent Ref 25 dBm Atten 35 dB #Peak Log 10 dB/ **Center** Offst 1 dB 2.452000000 GHz Center 2.452 GHz Span 40 MHz #Res BW 100 kHz Sweep 4.144 ms (401 pts) **#VBW 300 kHz** Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 36.0194 MHz Transmit Freq Error -2.986 kHz x dB Bandwidth 36.527 MHz



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8. Peak Output Power Test

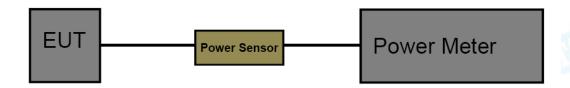
8.1 Test Standard and Limit

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 v03r03.

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:	Smart Socket	Model Name :	XM-JPK1S
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		anii)
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
	2412	12.24	
802.11b	2437	12.28	
	2462	12.22	
802.11g	2412	12.03	
	2437	12.11	
	2462	12.08	30
902 44m	2412	11.89	30
802.11n (HT20)	2437	11.69	
(1120)	2462	11.98	
	2422	11.02	
802.11n (HT40)	2437	11.12	
(1140)	2452	11.35	
	Resi	ult: PASS	



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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 v03r03.

- (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.

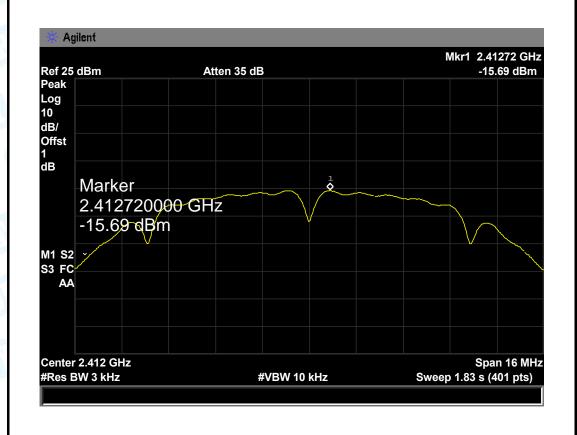


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9.5 Test Data

EUT:	Smart Socket		Model:	XM-JPK1S
Temperature:	25 ℃		Relative Humidity:	55%
Test Voltage:	AC 120V/	60Hz		
Test Mode:	TX 802.11B Mode			
Channel Frequency	uency	Power Density		Limit (dBm)
(MHz)		(3 kHz	z/dBm)	
2412		-15	5.69	
2437		-15.68		8
2462		-15.38		
		802.111	B Mode	

002.11D MOC





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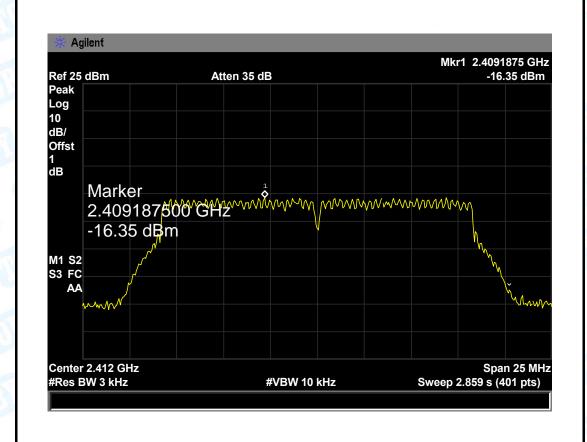
802.11B Mode 2437 MHz Agilent Mkr1 2.43772 GHz Ref 25 dBm -15.68 dBm Atten 35 dB Peak Log 10 dB/ Offst 1 dB Marker 2.437720000 GHz -15.68 dBm M1 S2 S3 FC AA Center 2.437 GHz Span 16 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 1.83 s (401 pts) 802.11B Mode 2462 MHz Agilent Mkr1 2.46132 GHz Ref 25 dBm Atten 35 dB -15.38 dBm Peak Log 10 dB/ Offst 1 dB 1 **Q** Marker 2.461320000 GHz



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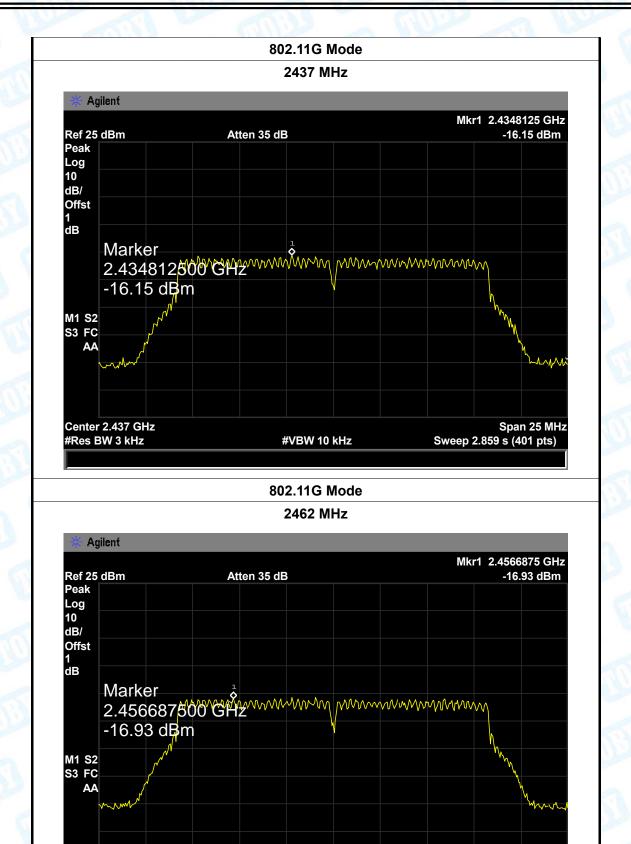
EUT:	Smart Socket		Model:	XM-JPK1S
Temperature:	25 ℃		Temperature:	25 ℃
Test Voltage:	AC 120V/	60Hz		
Test Mode:	TX 802.1	IG Mode		
Channel Frequency	uency Power		er Density	Limit (dBm)
(MHz)		(3 k	(Hz/dBm)	
2412			-16.35	
2437	-16		-16.15	8
2462			-16.93	

802.11G Mode





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#VBW 10 kHz

Center 2.462 GHz

#Res BW 3 kHz

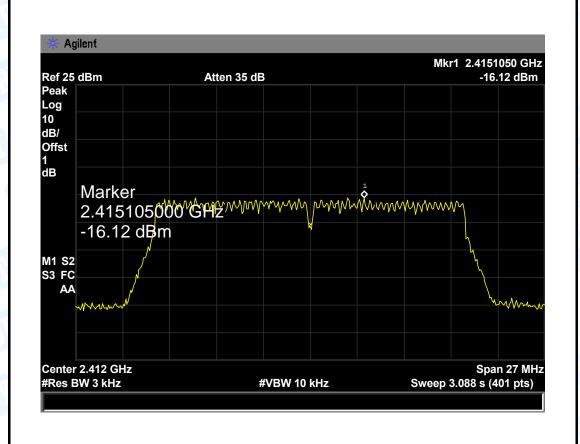
Span 25 MHz

Sweep 2.859 s (401 pts)



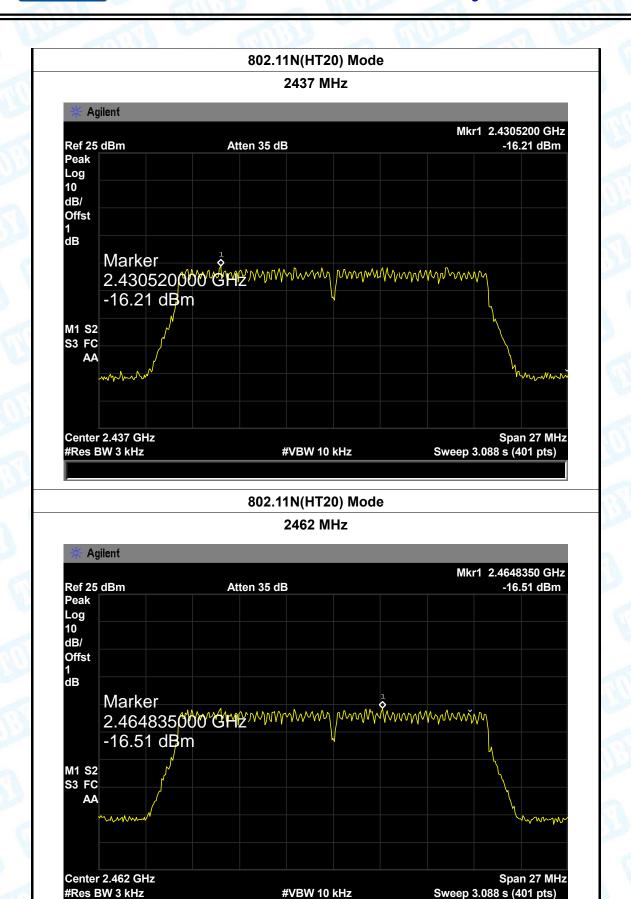
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EUT:	Smart Socket		Model:	XM-JPK1S	
Temperature:	25 ℃		Temperature:	25 ℃	
Test Voltage:	AC 120V/60Hz		100		
Test Mode:	TX 802.1	TX 802.11N(HT20) Mode			
Channel Freq	uency	Power Density		Limit (dBm)	
(MHz)		(3 kHz/dBm)			
2412		-16.12			
2437		-16.21		8	
2462		-16.51			
		802.11N(H	HT20) Mode		
		2412	2 MHz		





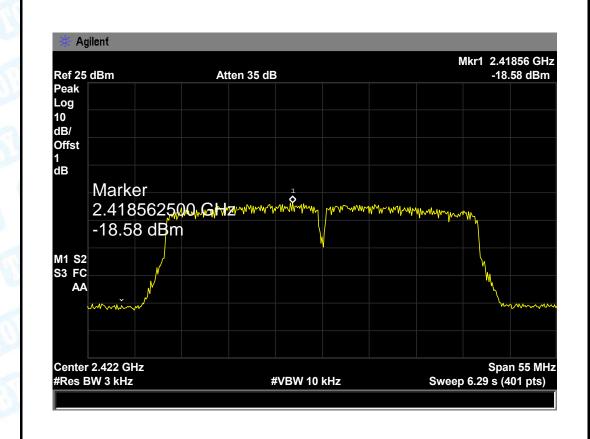
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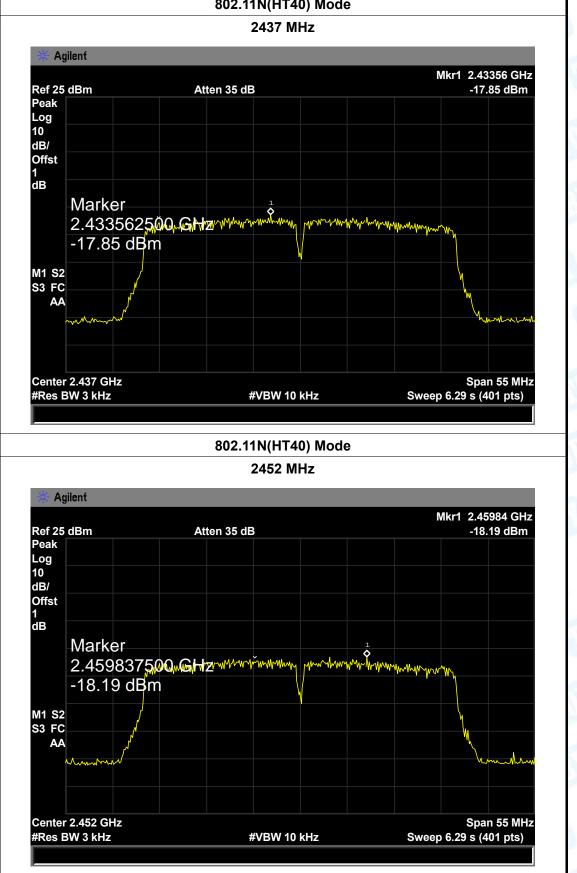
EUT:	Smart Socket		Model:	XM-JPK1S
Temperature:	25 ℃		Temperature:	25 ℃
Test Voltage:	AC 120V/60Hz		13.0	
Test Mode:	TX 802.1	1N(HT40) Mode		
Channel Freq	uency	Power Density		Limit (dBm)
(MHz)		(3 kHz/dBm)		
2422		-18	.58	
2437	2437		.85	8
2452		-18.19		
		802.11N(H	T40) Mode	





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802.11N(HT40) Mode 2437 MHz Agilent Mkr1 2.43356 GHz Ref 25 dBm -17.85 dBm Atten 35 dB Peak Log 10 dB/ Offst 1 dB Marker 1 **?**..... 2.433562500 GHz~~~ -17.85 dBm M1 S2 S3 FC AA Center 2.437 GHz Span 55 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 6.29 s (401 pts) 802.11N(HT40) Mode 2452 MHz Agilent Mkr1 2.45984 GHz -18.19 dBm Ref 25 dBm Atten 35 dB Peak Log 10 dB/





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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 -0.5 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 Chip Antenna. It complies with the standard requirement.

Antenna Type	
	▶ Permanent attached antenna
Em.	□ Unique connector antenna
	□ Professional installation antenna