

TEST REPORT

FCC ID: 2AJGYRF-0301

Product: 2.4GHz RF Presenter with Red laser pointer

Model No.: RF-0301

Additional Model: N/A

Trade Mark: N/A

Report No.: TCT160811E009

Issued Date: Nov. 10, 2016

Issued for:

JEN JANG COMPANY LTD. 3F-3, NO.490, BANNAN RD., ZHONGHE DIST., NEW TAIPEI CITY 23556, TAIWAN

Issued By:

Shenzhen Tongce Testing Lab.

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TABLE OF CONTENTS

1. Test Certification		3
2. Test Result Summary		4
3. EUT Description		
4. Genera Information	<u>(c)</u>	6
4.1. Test Environment and Mode		6
4.2. Description of Support Units		6
5. Facilities and Accreditations	(20)	7
5.1. Facilities		7
5.2. Location		
5.3. Measurement Uncertainty	(C)	7
6. Test Results and Measurement Data		
6.1. Antenna Requirement		8
6.2. Conducted Emission		9
6.3. Radiated Emission Measurement		10
6.4. 20dB Occupied Bandwidth	<u>(ci)</u>	18
Appendix A: Photographs of Test Setup		
Appendix B: Photographs of EUT		



1. Test Certification

Product:	2.4GHz RF Presenter with Red laser pointer
Model No.:	RF-0301
Additional Model:	N/A
Applicant:	JEN JANG COMPANY LTD.
Address:	3F-3, NO.490, BANNAN RD., ZHONGHE DIST., NEW TAIPEI CITY 23556, TAIWAN, R.O.C.
Manufacturer:	JEN JANG COMPANY LTD.
Address:	3F-3, NO.490, BANNAN RD., ZHONGHE DIST., NEW TAIPEI CITY 23556, TAIWAN, R.O.C.
Date of Test:	Aug. 11- Nov. 09, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Beryl Zhao

Beryl Zhao

Date: Nov. 09, 2016

Beryl Zhao

Date: Nov. 10, 2016

Joe Zhou

Approved By:

Date: Nov. 10, 2016

Tomsin



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§15.249 (a) (d)/ §15.209	PASS
Band Edge	§15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§15.215 (c)	PASS

Note:

- 1. Pass: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. EUT Description

Product Name:	2.4GHz RF Presenter with Red laser pointer
Model :	RF-0301
Additional Model:	N/A
Trade Mark:	N/A
Hardware Version:	Hgtxyj
Software Version:	Hgtxrj
Operation Frequency:	2408-2474MHz
Number of Channel:	24
Modulation Technology:	FSK
Antenna Type:	Internal Antenna
Antenna Gain:	2.54dBi
Power Supply:	DC 1.5V(1pcs AAA Battery)

Operation Frequency Each of Channel

5 	 	<u> </u>	Omanii				
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2408MHz	6	2420 MHz	12	2441 MHz	18	2462MHz
1	2411 MHz	7	2423 MHz	13	2444 MHz	19	2464MHz
2	2413 MHz	8	2430 MHz	14	2445 MHz	20	2466MHz
3	2414 MHz	9	2434MHz	15	2449MHz	21	2468 MHz
4	2415 MHz	10	2436 MHz	16	2458MHz	22	2470 MHz
5	2419 MHz	11	2440 MHz	17	2461 MHz	23	2474 MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

10 0 10 11 1	
Channel	Frequency
The lowest channel	2408MHz
The middle channel	2441MHz
The Highest channel	2474MHz



4. Genera Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

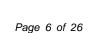
4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1 (0)	1 6) 1	(6) 1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

5.3. 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 %.

No.	Item		MU
1	Conducted Emission		±2.56dB
2	RF power, conducted	(0)	±0.12dB
3	Spurious emissions, conducted	±0.11dB	
4	All emissions, radiated(<1GHz)	±3.92dB	
5	All emissions, radiated(>1GHz)	±4.28dB	
6	Temperature		±0.1°C
7	Humidity		±1.0%





6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

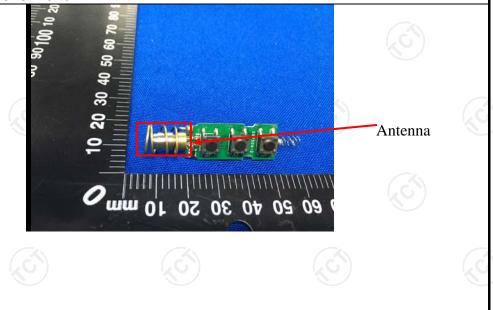
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

15.247(c) (1)(i) requirement:

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

E.U.T Antenna:

The antenna is an internal antenna which permanently attached, and the best case gain of the antenna is 2.54dBi.





6.2. Conducted Emission

6.2.1. Test Specification

	E00 D- 145 0 0 . 11	45.007	(,0			
Test Requirement:	FCC Part15 C Section	15.207				
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	(61)				
Receiver setup:	RBW=9 kHz, VBW=30) kHz, Sweep time	e=auto			
Limits:	Frequency range (MHz) Quasi-peak Avera 0.15-0.5 66 to 56* 56 to 0.5-5 56 46 5-30 60 50					
Test Setup:	Reference Plane LISN 40cm 80cm Filter AC power EMI Receiver Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Transmitting mode wit	h modulation				
Test Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 					
Test Result:	The EUT is supplied by 1.5V from AAA battery, so Conducted Emission is not applicable.					





6.3. Radiated Emission Measurement

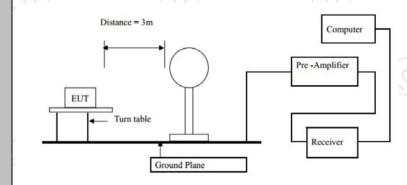
6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m	X			
Antenna Polarization:	Horizontal 8	& Vertical			
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peak Quasi-peak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120kHz 1MHz 1MHz	300kHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value
Limit(Field strength of the fundamental signal):	Freque 2400MHz-24	ency	Limit (dBu\ 94.	V/m @3m) 00	Remark Average Value Peak Value
Limit(Spurious Emissions):	Frequency 0.009-0.490 0.490-1.705 1.705-30 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz		Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5 46.0		Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value
	960MHz-1GHz Above 1GHz		54.0 54.0 74.0		Quasi-peak Value Average Value Peak Value
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 				

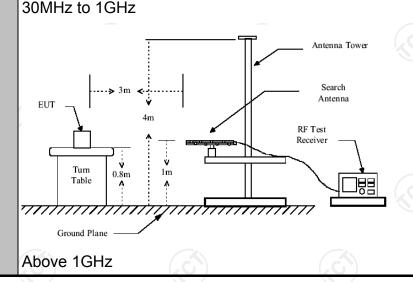


- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

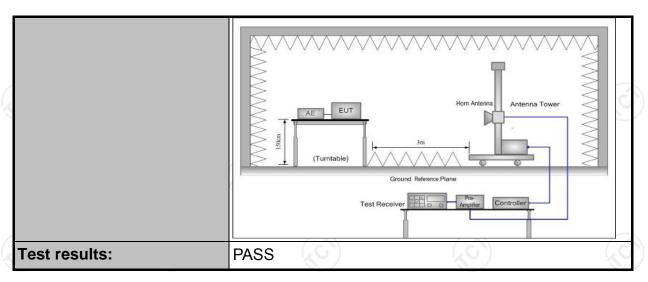
For radiated emissions below 30MHz



Test setup:







6.3.2. Test Instruments

			. / .	
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017
Coax cable (9kHz-40GHz)	ТСТ	RE-low-01	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-high-02	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-low-03	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-high-04	N/A	Aug. 11, 2017
Antenna Mast	CCS	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
2408	56.50(PK)	Н	114/94	-57.50
2408	51.27(AV)	Н	114/94	-42.73
2441	53.59(PK)	Н	114/94	-60.41
2441	50.36(AV)	Н	114/94	-43.64
2474	54.21(PK)	(c)H	114/94	-59.79
2474	49.83(AV)	Н	114/94	-44.17
2408	64.77(PK)	V	114/94	-49.23
2408	60.52(AV)	V	114/94	-33.48
2441	64.00(PK)	V	114/94	-50.00
2441	61.39(AV)	V	114/94	-32.61
2474	66.23PK)	V	114/94	-47.77
2474	62.45(AV)	V	114/94	-31.55

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(8)	<u> </u>	
	1	-
(c\)-		- (c.)

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Page 13 of 26



Frequency Range (30MHz-1GHz)

Horizontal:



Site Limit: FCC Part 15B Class B RE_3 m Polarization: *Horizontal*Power:

Temperature: 23

Humidity: 54 %

No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	4	45.7331	24.06	-10.06	14.00	40.00	-26.00	QP		0	
2	4	19.0626	24.40	-9.71	14.69	40.00	-25.31	QP		0	
3	5	55.2882	23.92	-9.65	14.27	40.00	-25.73	QP		0	
4	10	05.5370	23.15	-9.31	13.84	43.50	-29.66	QP		0	
5	60	02.9287	25.21	0.77	25.98	46.00	-20.02	QP		0	
6 *	* 75	54.9628	24.71	6.27	30.98	46.00	-15.02	QP		0	





Vertical:

Site



Limit: FCC Part 15B Class B RE_3 m

Polarization: Vertical

Temperature:

re: 23

Power:

Humidity: 54 %

-	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
	1		49.0626	29.79	-9.71	20.08	40.00	-19.92	QP		0		
	2		53.0056	29.03	-9.15	19.88	40.00	-20.12	QP		0		
	3	;	389.9873	24.45	-3.82	20.63	46.00	-25.37	QP		0		
	4	;	509.3560	24.72	-1.89	22.83	46.00	-23.17	QP		0		
	5		642.2921	25.33	0.95	26.28	46.00	-19.72	QP		0		
- 1	6	*	760.2866	24.50	6.24	30.74	46.00	-15.26	QP		0		

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.



Page 15 of 26



Above 1GHz

				Low channe	l: 2408 Mł	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2387.50	Н	51.25		-4.20	47.05		74		-26.95
2387. 50	Н	<u></u>	50.17	-4.20	<i>)</i>	45.97	\	54	-8.03
4816.00	Н	48.29		-3.94	44.35		74	54	-9.65
7224.00	Н	45.29		0.52	45.81		74	54	-8.19
	4			·					
	(CO)		120			(0)		(2C)	
2387.50	V	51.37		-4.2	47.17	<u></u>	74	54	-26.83
2387.50	V		50.83	-4.2		46.63	74	54	-7.37
4816.00	V	49.35		-3.94	45.41		74	54	-8.59
7224.00	V	46.72		0.52	47.24		74	54	-6.76
<u> </u>		(20)		📉)		(A)		

			N	liddle chanr	nel: 2441M	Hz			
Frequency	Ant Dol	Peak	AV	Correction	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak			(dBµV/m)	(dB)
(1711 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(ασμν/π)	(ασμν/ιιι)	(ub)
4882.00	Η	49.27		-3.98	45.29		74	54	-8.71
7323.00	Н	48.88		0.57	49.45		74	54	-4.55
					X\		-		
(C)		(<u>,</u> -G)		(20	<u></u> (`ر		$(\mathcal{L}_{\mathcal{L}})$		{ _Z C
<u> </u>					/ 				
			ı	r		1	1		
4882.00	V	49.95		-3.98	45.97		74	54	-8.03
7323.00	V	47.39		0.57	47.96		74	54	-6.04
	(U_)		-120)	-	(O +			
						<u> </u>			

			I	High channe	el: 2474 Mi	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2486.58	Н	50.37		-2.38	47.99		74		-26.01
2486.58	Н		42.53	-2.38	(40.15		54	-13.85
4948.00	Н	51.69		-3.98	47.71	<u></u>	74	54	-6.29
7422.00	Н	59.58		0.57	60.15		74	54	6.15
						-			
					Z \				
2483.51	V	49.97		-2.38	47.59	-	74		-26.41
2483.51	V		46.69	-2.38		44.31		54	-9.69
4948.00	V	51.72		-3.98	47.74		74	54	-6.26
7422.00	V	50.25		0.57	50.82		74	54	-3.18
	44							7-3	

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



Band Edge Requirement

Low chann	el: 2408 M	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2400	Н	60.15)	-4.2	55.95		74		-18.05
2400	Н		45.87	-4.2		41.67		54	-12.33
2400	V	55.86	(-4.2	51.66		74	-(3	-22.34
2400	V		43.02	-4.2		38.82		54	-15.18

Low chann	Low channel: 2474MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	H	53.46		-4.2	49.26		74		-24.74
2483.5	(, fb, ')		43.86	-4.2		39.66		54	-14.34
									
2483.5	V	53.21		-4.2		49.01	74		-24.99
2483.5	V	-+ .	42.83	-4.2		38.63	/	54	-15.37
<u> </u>			/	'	7-		(40)		<

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)						
Test Method:	ANSI C63.10: 2013						
Limit:	N/A						
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 						
Test setup:	Spectrum Analyzer EUT						
Test Mode:	Transmitting mode with modulation						
Test results:	PASS						

6.4.2. Test Instruments

RF Test Room								
Equipment	Equipment Manufacturer Model Serial Number Calibration Due							
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 18 of 26



6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	1706.73		PASS
Middle	2192.31		PASS
Highest	1717.95		PASS

Test plots as follows:



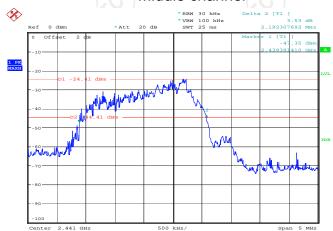


Lowest channel



Date: 27.0CT.2016 16:53:05

Middle channel



Date: 27.OCT.2016 17:04:30

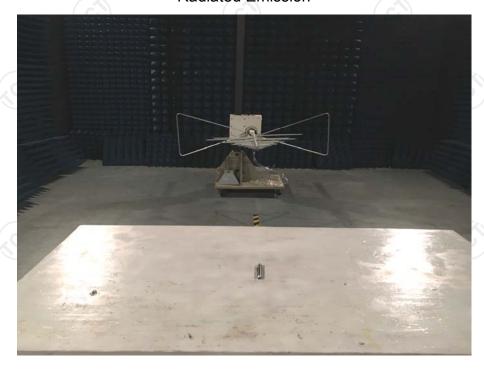
Highest channel

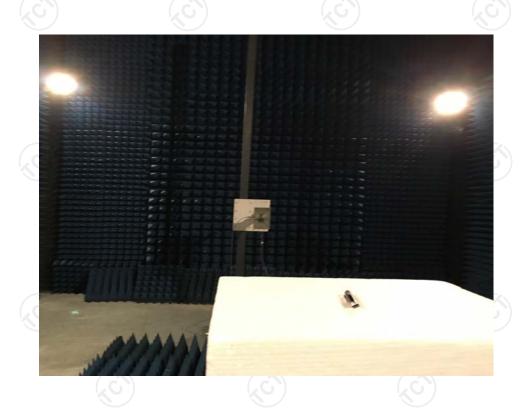


Date: 27.0CT.2016 17:06:26



Appendix A: Photographs of Test SetupProduct: 2.4GHz RF Presenter with Red laser pointer Model: RF-0301 **Radiated Emission**









Appendix B: Photographs of EUT Product: 2.4GHz RF Presenter with Red laser pointer

Model: RF-0301 External Photos















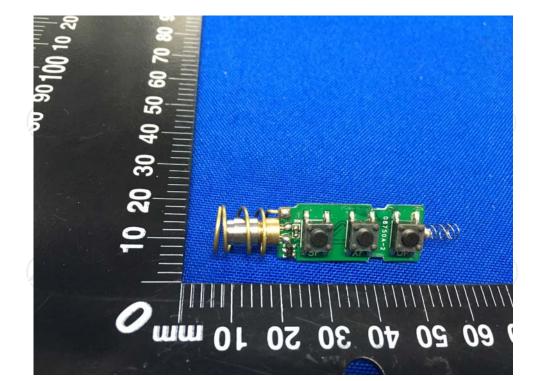
Model: RF-0301 Internal Photos





















*****END OF REPORT****



