

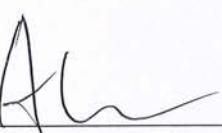
## RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant : Dongguan Jingran Electronic Technology Co., Ltd  
Address : Building B, Chuangye Industrial Zone, Xinxibian, Niushan, Dongcheng District, Dongguan City, Guangdong, China  
Manufacturer /Factory : Dongguan Jingran Electronic Technology Co., Ltd  
Address : Building B, Chuangye Industrial Zone, Xinxibian, Niushan, Dongcheng District, Dongguan City, Guangdong, China  
E.U.T. : 2.4G Remote system  
Brand Name : JINGRAN  
Model No. : JR1602TX  
FCC ID : 2APWJJR1602TX  
Measurement Standard : FCC PART 15.249: 2017  
Date of Receiver : May 08, 2018  
Date of Test : May 08, 2018 to May 14, 2018  
Date of Report : May 15, 2018

This Test Report is Issued Under the Authority of :

Prepared by



---

Alina Guo / Engineer

Approved & Authorized Signer



Dongguan Nore Testing Center Co., Ltd.  
NTC  
Nore Testing Center

*[Handwritten signature of Lori Fan over the stamp]*

Lori Fan / Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

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## Revision History of This Test Report

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test

Product Name : 2.4G Remote system  
Main model number : JR1602TX  
Additional Model number : N/A  
Brand Name : JINGRAN  
Power Supply : DC 1.5V\*2  
Adapter : N/A  
Test voltage : DC 3V From battery  
Model Difference Description : N/A  
Hardware version : JR1602TX-T 20171218  
Software version : 0x2409D2  
Note : N/A  
Remark : N/A

### Technical Specification:

#### 2.4G Function:

Frequency Range : 2403~2472MHz  
Modulation Type : GFSK  
Number of Channel : 70  
Antenna Type : PCB  
Antenna Gain : 1.1 dBi (Declaration by manufacturer)

## Channel List

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2403	25	2427	49	2451
2	2404	26	2428	50	2452
3	2405	27	2429	51	2453
4	2406	28	2430	52	2454
5	2407	29	2431	53	2455
6	2408	30	2432	54	2456
7	2409	31	2433	55	2457
8	2410	32	2434	56	2458
9	2411	33	2435	57	2459
10	2412	34	2436	58	2460
11	2413	35	2437	59	2461
12	2414	36	2438	60	2462
13	2415	37	2439	61	2463
14	2416	38	2440	62	2464
15	2417	39	2441	63	2465
16	2418	40	2442	64	2466
17	2419	41	2443	65	2467
18	2420	42	2444	66	2468
19	2421	43	2445	67	2469
20	2422	44	2446	68	2470
21	2423	45	2447	69	2471
22	2424	46	2448	70	2472
23	2425	47	2449		
24	2426	48	2450		

**Note:** The Lowest, middle, and the Highest frequency of channel were selected to perform the test. The frequency selected see below:

The Lowest frequency: 2403MHz  
The middle frequency: 2438MHz  
The Highest frequency: 2472MHz

## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2APWJJR1602TX** filing to comply with Section 15.249 of the FCC Part 15 (2017), Subpart C Rule.

## 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

## 1.4 Equipment Modifications

Not available for this EUT intended for grant.

## 1.5 Support Device

N/A

## 1.6 Test Facility and Location

Listed by CNAS, August 14, 2015

The certificate is valid until August 13, 2018

The Laboratory has been assessed and proved to be in compliance with  
CNAS/CL01

The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017

The certificate is valid until December 31, 2019

The Laboratory has been assessed and proved to be in compliance with ISO17025

The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017

The Designation Number is CN1214

Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017

The Certificate Registration Number. Is 46405-9743

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(Full Name: Dongguan Nore Testing Center Co., Ltd.)

Building D, Gaosheng Science and Technology Park, Hongtu Road,

Nancheng District, Dongguan City, Guangdong, China

(Full Name: Building D, Gaosheng Science & Technology Park,

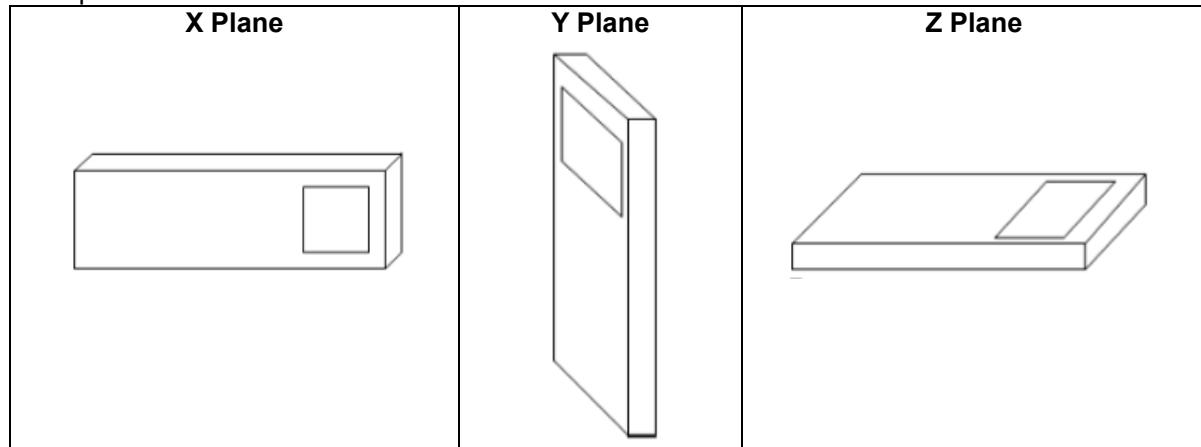
Zhouxi Longxi Road, Nancheng District, Dongguan, Guangdong, China.

## 1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.207(a)	AC Power Conducted Emission	±1.06dB	Not Applicable
§15.249(a)/ 15.209	Radiated Emissions	±3.70dB	Compliant
§15.249(d)/ 15.205	Band Edge	±1.70dB	Compliant
§15.215(c)	20dB Bandwidth	±1.42 x10 <sup>-4</sup> %	Compliant
§15.203	Antenna Requirement	---	Compliant

Note: 1. The EUT has been tested as an independent unit. And Continual transmitting in maximum power (The new battery be used during test)  
2. Due to this EUT is powered by battery only, the AC Power Conducted Emission is not applicable.  
3. The EUT powered by battery and operating multiple positions, so the EUT shall be performed two or three orthogonal planes. The worst plane is Z.

Example:



---

## 2. System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 Special Accessories

Not available for this EUT intended for grant.

### 2.3 Description of test modes

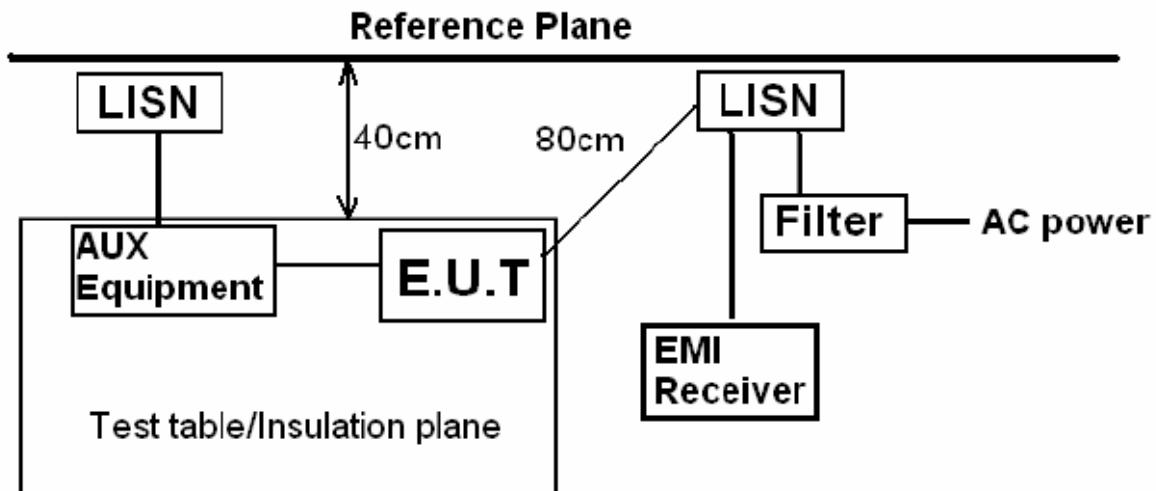
The EUT has been tested under operating condition. The Lowest, middle and highest frequencies were chosen for testing.

### 2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

### 3. Conducted Emissions Test

#### 3.1 Test SET-UP (Block Diagram of Configuration)



#### 3.2 Test Condition

**Test Requirement:** FCC Part 15.207

**Frequency Range:** 150KHz ~ 30MHz

**Detector:** RBW 9KHz, VBW 30KHz

**Operation Mode:** TX

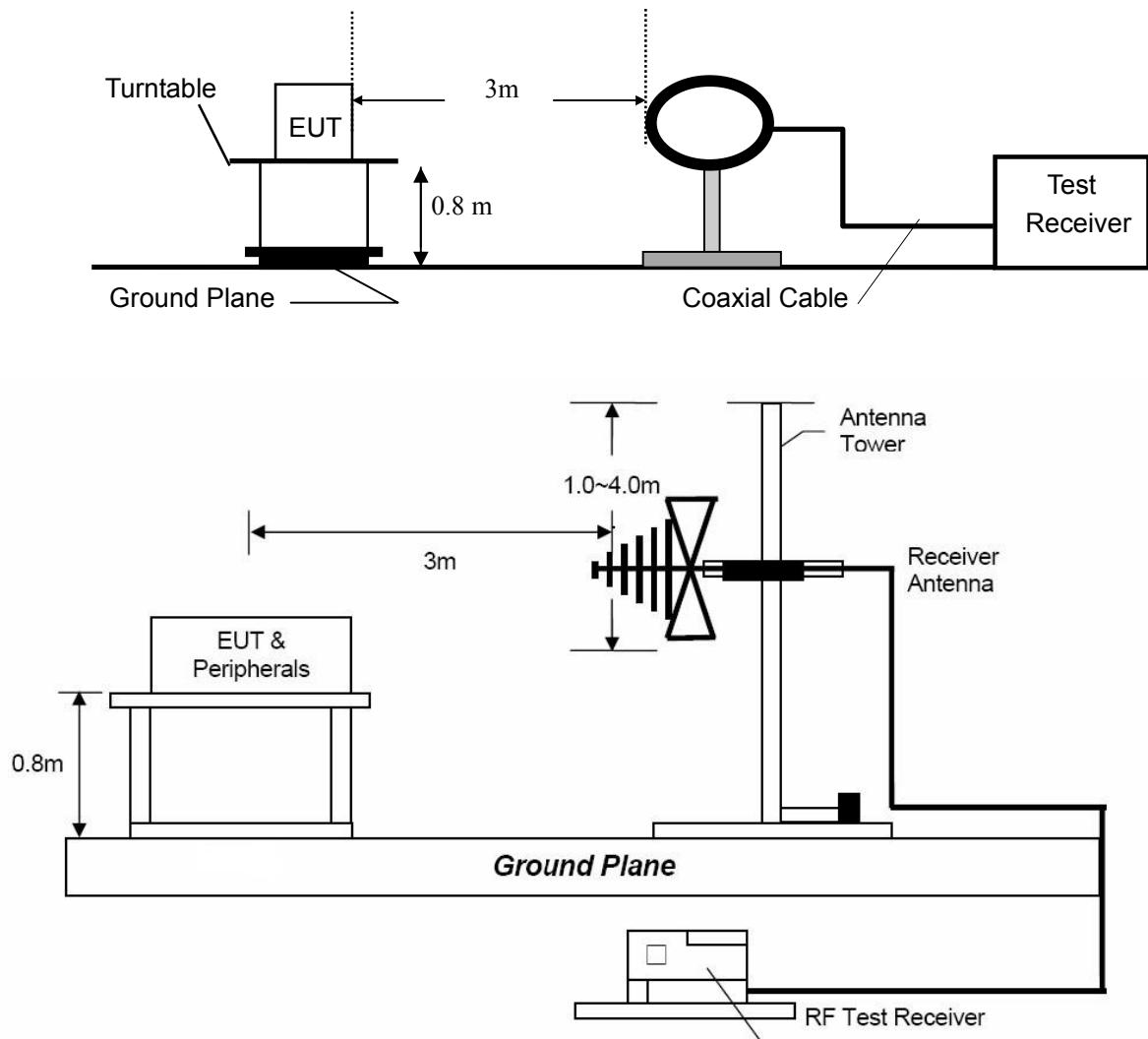
#### 3.3 Measurement Results

**Not Applicable.**

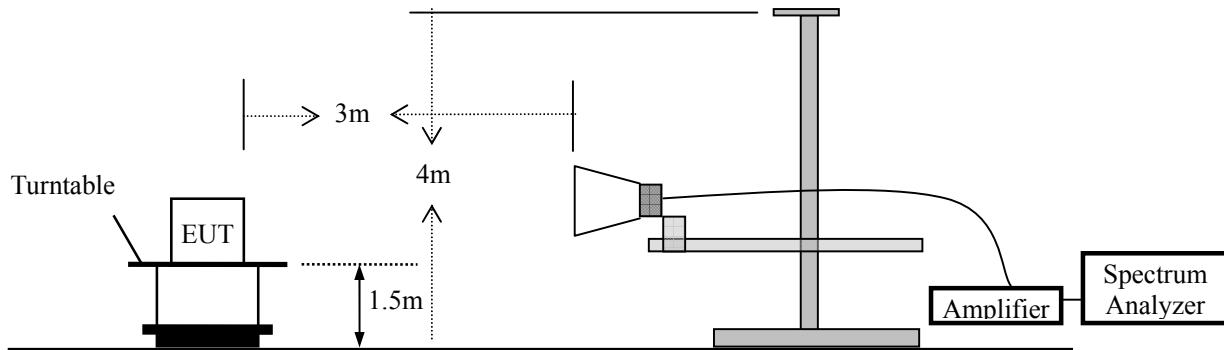
## 4. Radiated Emission Test

### 4.1 Test SET-UP (Block Diagram of Configuration)

#### 4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz



#### 4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



#### 4.2 Measurement Procedure

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:  
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna 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.
- e. 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. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

#### 4.3 Limit

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)	
		μV/m	
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	
88 ~ 216	3	150	
216 ~ 960	3	200	
Above 960	3	500	
Frequency range MHz	Distance Meters	Field Strengths Limit (15.249)	
		mV/m (Field strength of fundamental)	μV/m (Field strength of Harmonics)
902 ~ 928	3	50	500
2400 ~ 2483.5	3	50	500
5725 ~ 5875	3	50	500
24000 ~ 2425000	3	250	2500

Remark: (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m  
 (2) The smaller limit shall apply at the cross point between two frequency bands.  
 (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.  
 (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.  
 (5) Sample of data calculate:  
 Level=Reading + Factor; Margin= Level-Limit  
 Factor=CF+AF+AG  
 Where CF=Cable attenuation factor in dB  
 AF= Antenna factor in dB  
 AG=Amplifier Gain in dB

#### 4.4 Measurement Results

Please refer to following the test plots of the worst case: GFSK(Middle channel).



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### Radiated Emission Measurement

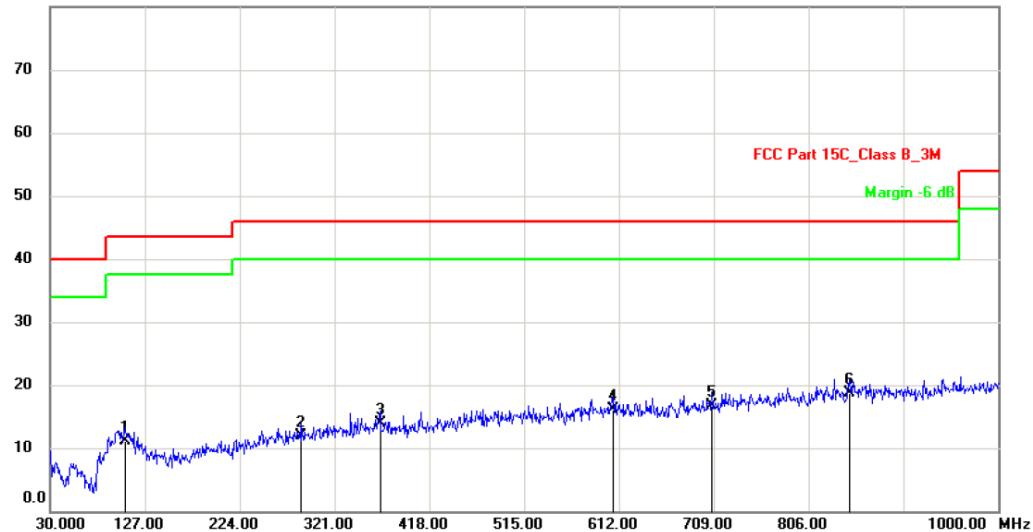
File :JR-1602

Data :#2

Date: 2018-5-9

Time: 18:32:33

80.0 dB<sub>uV/m</sub>



Site

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15C\_Class B\_3M

Power: DC3V

Humidity: 47 %

EUT: 2.4G Remote system

Distance: 3m

M/N: JR1602TX

Mode: TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dB <sub>uV</sub>	dB	dB <sub>uV/m</sub>	dB <sub>uV/m</sub>	dB	Detector	cm	degree
1		106.6300	24.24	-13.04	11.20	43.50	-32.30	QP		
2		287.0500	24.24	-12.34	11.90	46.00	-34.10	QP		
3		367.5600	24.78	-10.88	13.90	46.00	-32.10	QP		
4		606.1800	23.41	-7.31	16.10	46.00	-29.90	QP		
5		707.0600	22.98	-6.18	16.80	46.00	-29.20	QP		
6	*	847.7100	22.85	-4.05	18.80	46.00	-27.20	QP		

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

(Reference Only)

**Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.**



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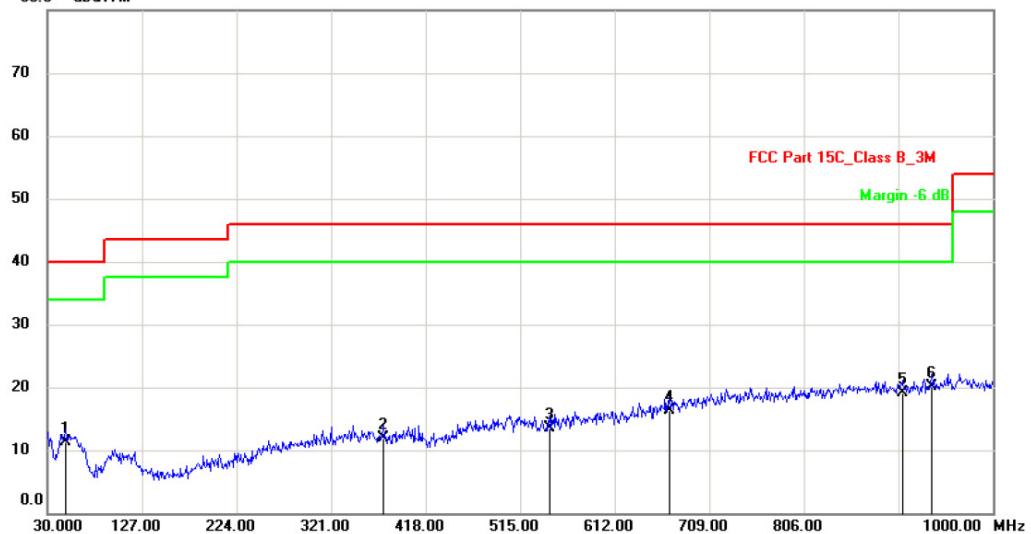
#### Radiated Emission Measurement

File :JR-1602  
 80.0 dBuV/m

Data :#1

Date: 2018-5-9

Time: 18:25:45



Site

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15C\_Class B\_3M

Power: DC3V

Humidity: 47 %

EUT: 2.4G Remote system

Distance: 3m

M/N: JR1602TX

Mode: TX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		48.4300	25.31	-14.01	11.30	40.00	-28.70	QP		
2		374.3500	24.82	-12.92	11.90	46.00	-34.10	QP		
3		545.0700	24.26	-10.76	13.50	46.00	-32.50	QP		
4		668.2600	23.51	-7.11	16.40	46.00	-29.60	QP		
5		906.8800	23.21	-4.11	19.10	46.00	-26.90	QP		
6	*	936.9500	23.77	-3.57	20.20	46.00	-25.80	QP		

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

(Reference Only)

**Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.**

Frequency Range: 1-25GHz  
 Test Result: PASS  
 Measured Distance: 3m  
 Test By: Sance

Test Date : May 14, 2018  
 Temperature : 21 °C  
 Humidity : 55 %

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
<b>Operation Mode: TX Mode (Low)</b>										
2403	V	75.95	46.72	0.13	76.08	46.85	114.00	94.00	-37.92	-47.15
4806	V	53.24	37.43	6.32	59.56	43.75	74.00	54.00	-14.44	-10.25
7209	V	46.53	30.81	10.44	56.97	41.25	74.00	54.00	-17.03	-12.75
---										
2403	H	75.98	44.52	0.13	76.11	44.65	114.00	94.00	-37.89	-49.35
4806	H	53.44	34.19	6.32	59.76	40.51	74.00	54.00	-14.24	-13.49
7209	H	45.23	30.85	10.44	55.67	41.29	74.00	54.00	-18.33	-12.71
---										
<b>Operation Mode: TX Mode (Mid)</b>										
2438	V	77.11	44.38	0.23	77.34	44.61	114.00	94.00	-36.66	-49.39
4876	V	54.80	38.07	6.59	61.39	44.66	74.00	54.00	-12.61	-9.34
7314	V	47.11	31.48	10.55	57.66	42.03	74.00	54.00	-16.34	-11.97
---										
2438	H	76.54	44.2	0.23	76.77	44.43	114.00	94.00	-37.23	-49.57
4876	H	54.94	36.18	6.59	61.53	42.77	74.00	54.00	-12.47	-11.23
7314	H	45.15	29.78	10.55	55.70	40.33	74.00	54.00	-18.3	-13.67
---										
<b>Operation Mode: TX Mode (High)</b>										
2472	V	79.18	45.18	0.32	79.50	45.50	114.00	94.00	-34.50	-48.50
4944	V	53.33	35.5	6.83	60.16	42.33	74.00	54.00	-13.84	-11.67
7386	V	45.25	31.02	10.57	55.82	41.59	74.00	54.00	-18.18	-12.41
---										
2472	H	78.43	44.53	0.32	78.75	44.85	114.00	94.00	-35.25	-49.15
4944	H	53.04	36.8	6.83	59.87	43.63	74.00	54.00	-14.13	-10.37
7386	H	46.32	31.07	10.57	56.89	41.64	74.00	54.00	-17.11	-12.36

**Note:** (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level + Factor

(3) Factor= Antenna Gain + Cable Loss – Amplifier Gain

(4) Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.

(5) Measurement uncertainty : ±3.7dB.

(6) Horn antenna used for the emission over 1000MHz.

(7) Due to the highest Peak emission level below AVG limit, therefore, the AVG emission level is deemed to meet the requirements, no AVG result record.

## 5. 20dB Bandwidth

### 5.1 Measurement Procedure

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

### 5.2 Test SET-UP (Block Diagram of Configuration)



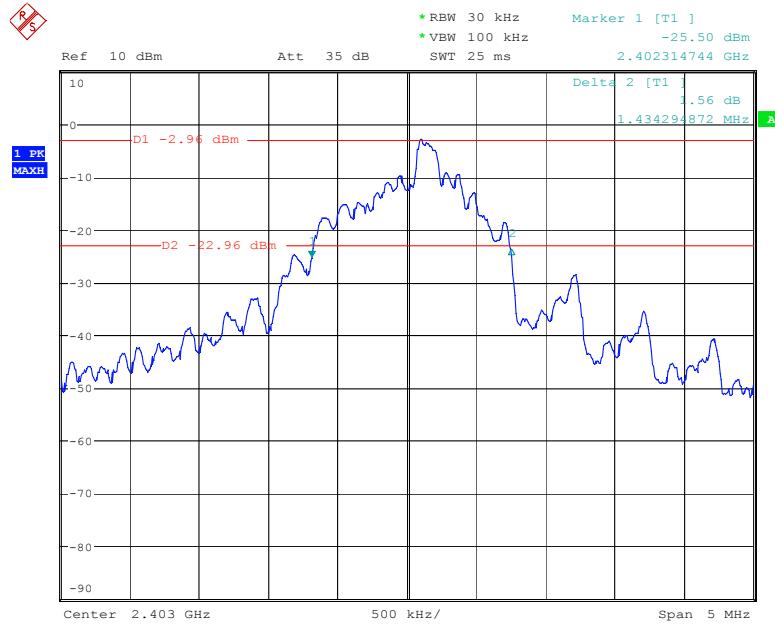
### 5.3 Measurement Results

Refer to attached data chart.

RBW:	30KHz	VBW:	100KHz
Spectrum Detector:	PK	Temperature :	22 °C
Test By:	Sance	Humidity :	54 %
Test Result:	PASS	Test Date :	May 11, 2018

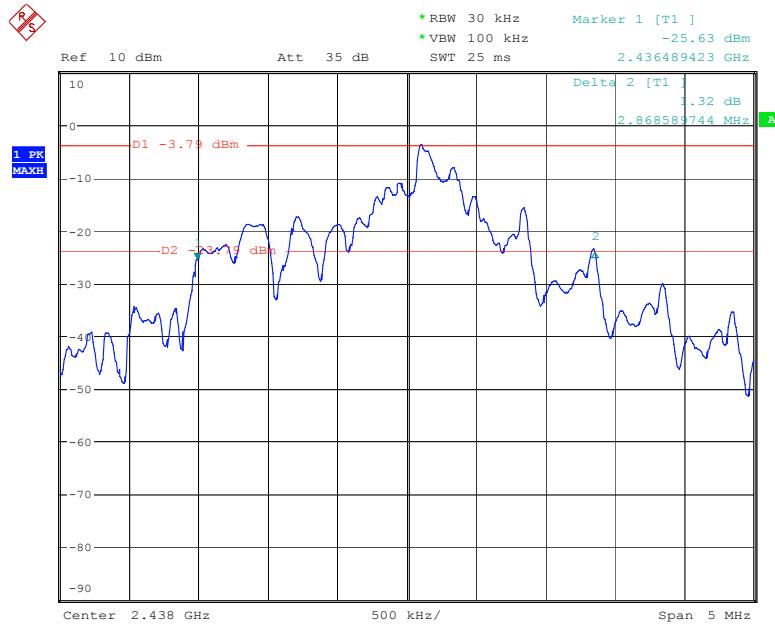
Channel frequency (MHz)	20dB Down BW(kHz)
2403	1434
2438	2869
2472	3277

### Lowest Channel



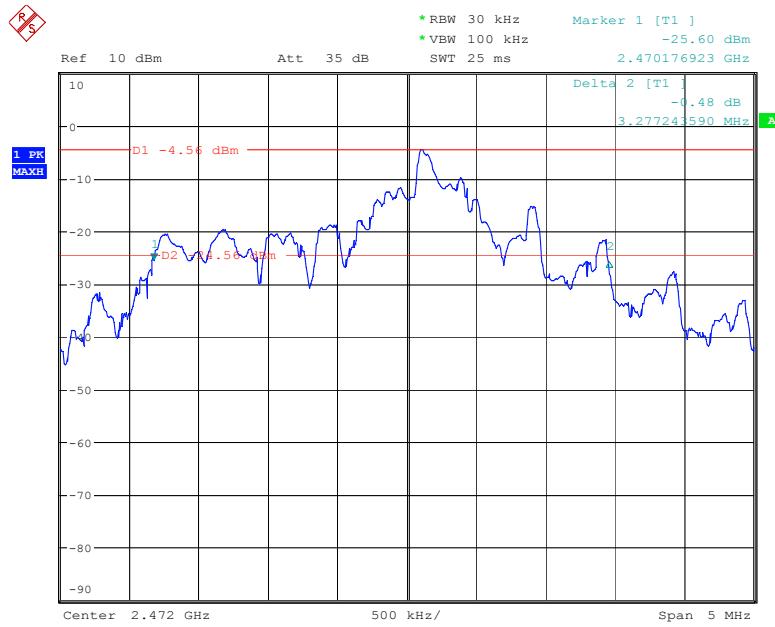
Date: 11.MAY.2018 10:16:50

### Middle Channel



Date: 11.MAY.2018 10:13:09

## Highest Channel



Date: 11.MAY.2018 10:15:04

## 6. Band Edge

### 6.1 Measurement Procedure

Same as Radiated Emission Test.

### 6.2 Limit

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 §15.209, whichever is the lesser attenuation.

### 6.3 Measurement Results

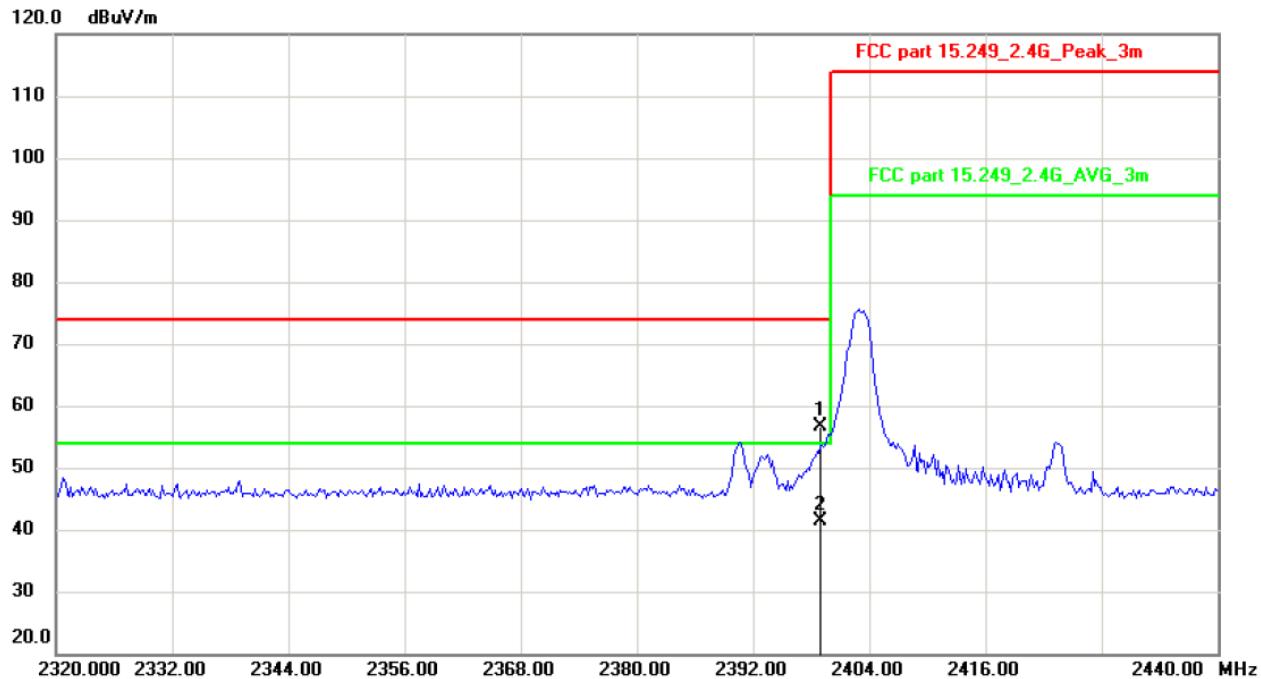
Operation Mode:	TX Mode	Test Date :	May 14, 2018
Temperature :	21 °C	Humidity :	55 %
Test Result:	PASS	Test By:	Sance
Measured Distance:	3m		

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
2399.000	H	56.60	41.16	0.13	56.73	41.29	74.00	54.00	-17.27	-12.71
2399.000	V	56.46	40.59	0.13	56.59	40.72	74.00	54.00	-17.41	-13.28
2490.130	H	53.22	36.50	0.37	53.59	36.87	74.00	54.00	-20.41	-17.13
2490.130	V	52.77	36.46	0.37	53.14	36.83	74.00	54.00	-20.86	-17.17

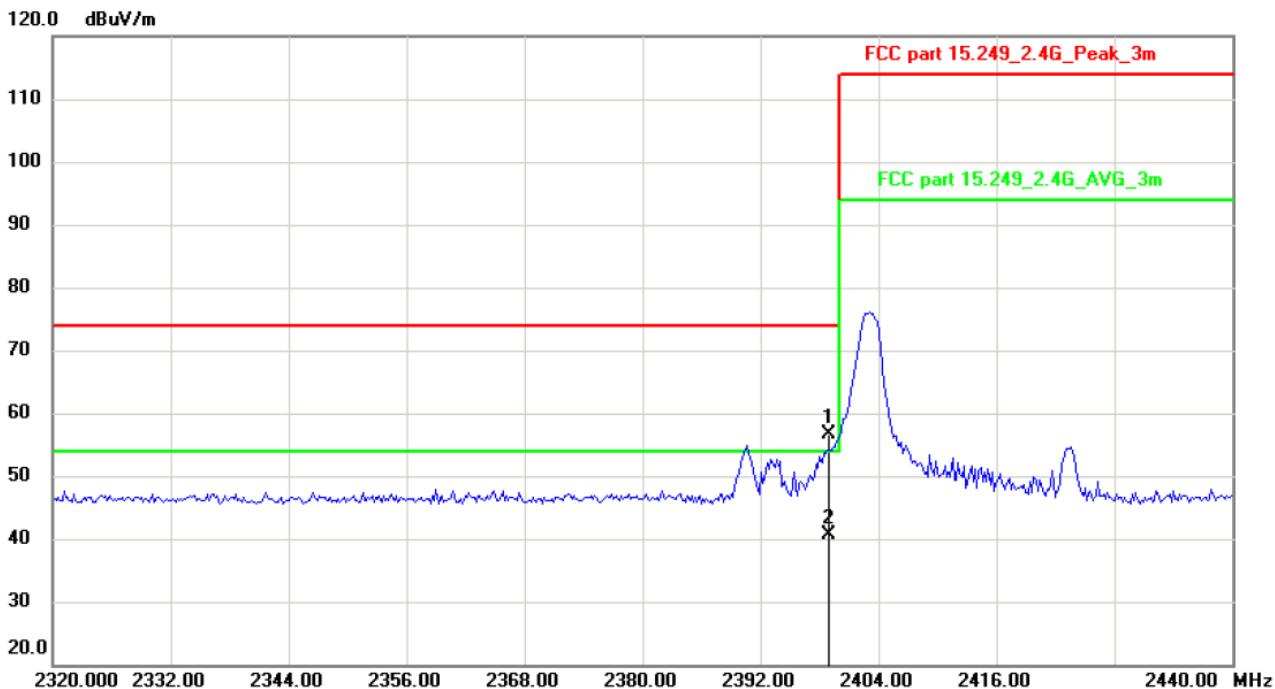
**Note:** (1) Emission Level= Reading Level + Factor  
(2) Factor= Antenna Gain + Cable Loss – Amplifier Gain  
(3) Horn antenna used for the emission over 1000MHz.

## Low channel

Horizontal

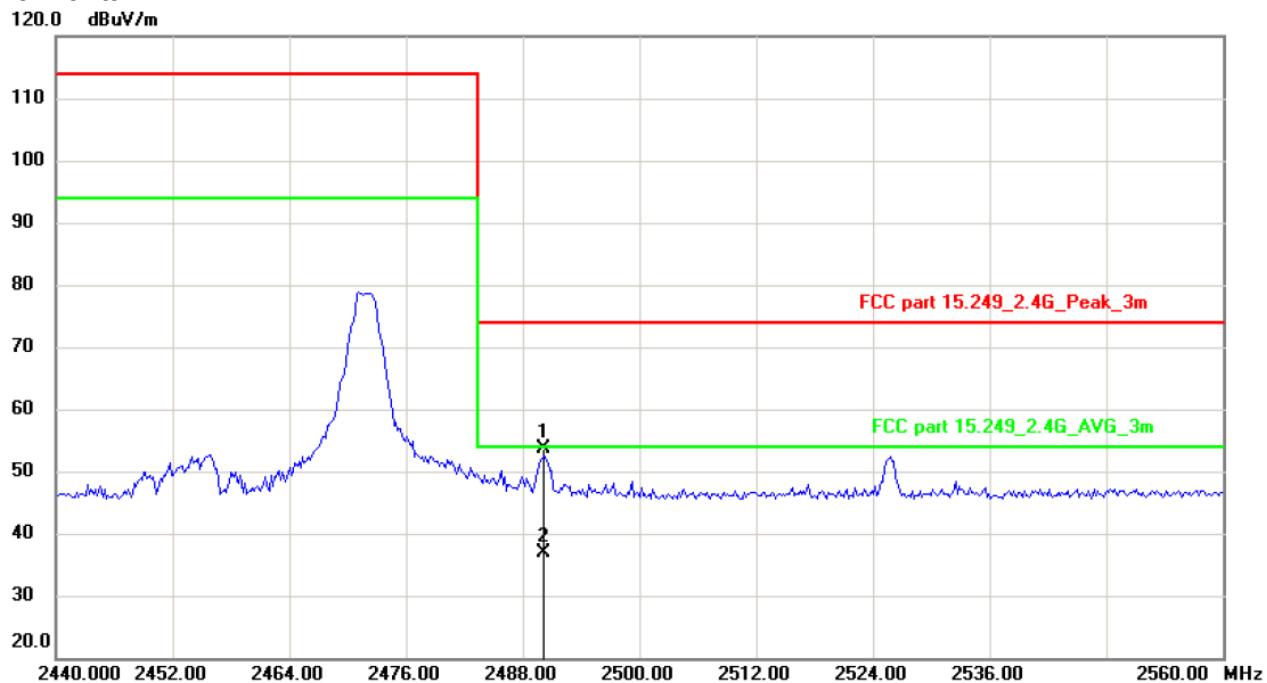


Vertical



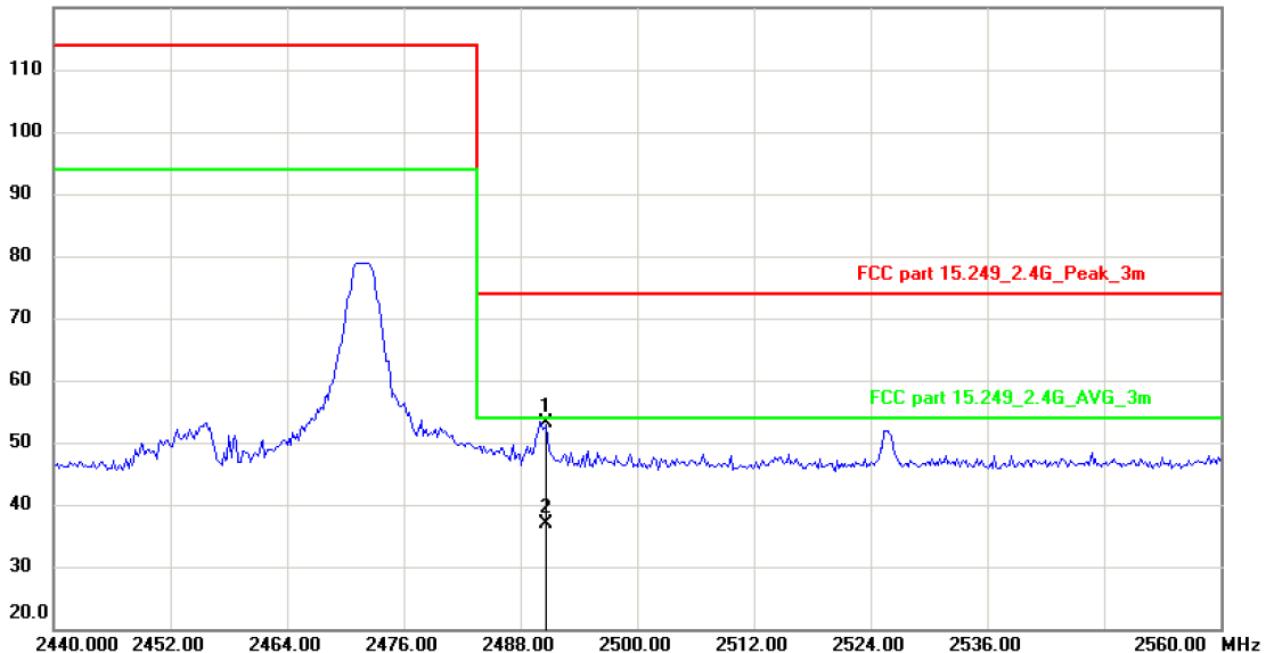
## High channel

Horizontal



## Vertical

Vertical



## 7. Antenna requirement

### 7.1 Measurement Procedure

According to of FCC part 15C section 15.203:

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.

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

### 7.2 Measurement Results

The antenna is PCB antenna and no consideration of replacement, and the best case gain of the antenna is 1.1 dBi. So, the antenna is consider meet the requirement.

## 8. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 14, 2018	Mar. 13, 2019
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 15, 2018	Mar. 14, 2019
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Mar. 14, 2018	Mar. 13, 2019
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Mar. 14, 2018	Mar. 13, 2019
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Apr. 25, 2018	Apr. 24, 2019
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 14, 2018	Mar. 13, 2019
Horn Antenna	Schwarzbeck	BBHA9170	9170-242	15GHz~40GHz	Mar. 14, 2018	Mar. 13, 2019
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Mar. 15, 2018	Mar. 14, 2019
RF Cable	Huber+Suhner	SF-104	N/A	9KHz~40GHz	Apr. 25, 2018	Apr. 24, 2019
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Apr. 25, 2018	Apr. 24, 2019
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Apr. 25, 2018	Apr. 24, 2019
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 06, 2018	Apr. 05, 2019
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Nov. 04, 2017	Nov. 03, 2018
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Apr. 25, 2018	Apr. 24, 2019
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Mar. 14, 2018	Mar. 13, 2019
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	N/A	N/A
Power Meter	Anritsu	ML2495A	1139001	100k-65GHz	Nov. 04, 2017	Nov. 03, 2018
Power Sensor	Anritsu	MA2411B	100345	300M-40GHz	Nov. 04, 2017	Nov. 03, 2018

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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