

## **RF Test Report**

## For

#### Applicant Name:

Address:

EUT Name:

Brand Name:

Model Number:

Series Model Number: Refer to section 2

#### Zhongshan Firefly Image Technology CO., LTD

3rd Floor, Building A, No.101 Qianjin fourth Road, Third Industrial Zone, Tanzhou, Zhongshan, Guangdong, China Remote Control N/A BT-2

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Issued By

#### Company Name:

#### BTF Testing Lab (Shenzhen) Co., Ltd.

Address:

FCC ID: Report Number: Test Standards: Tantou Community, Songgang Street, Bao'an District, Shenzhen, China 2BDHV-BT-2 BTF231107R00701 47 CFR Part 15.247

Test Conclusion: Test Date: Date of Issue:

Pass 2023-10-30 to 2023-11-07 2023-11-07

Prepared By:

hris Lin

Date:

Approved By:

Date:

Chris Liu / Project Engineer 2023-11-07

Ryan.CJ / EMC Manager 2023-11-07

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd. Page 1 of 59

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



Revision History			
Version	Issue Date	Revisions Content	
R_V0	2023-11-07	Original	
Note: Once the revision has been made, then previous versions reports are invalid.			



#### **Table of Contents**

1	INTR	ODUCTION	5
	1.1	Identification of Testing Laboratory	5
	1.2	Identification of the Responsible Testing Location	
	1.3	Announcement	
2	PRO	DUCT INFORMATION	6
	2.1	Application Information	
	2.2	Manufacturer Information	
	2.3 2.4	Factory Information General Description of Equipment under Test (EUT)	
	2.4 2.5	Technical Information	
3		MARY OF TEST RESULTS	
3			
	3.1 3.2	Test Standards Uncertainty of Test	
	3.3	Summary of Test Result	
4			
-	4.1	Test Equipment List	
	4.1 4.2	Test Auxiliary Equipment	
	4.3	Test Modes	
5	EVAI	UATION RESULTS (EVALUATION)	13
•	5.1	Antenna requirement	
	0.1	5.1.1 Conclusion:	
6		O SPECTRUM MATTER TEST RESULTS (RF)	
0		Conducted Emission at AC power line	
	6.1		
		<ul><li>6.1.1 E.U.T. Operation:</li><li>6.1.2 Test Setup Diagram:</li></ul>	
		6.1.3 Test Data:	
	6.2	Occupied Bandwidth	
	•	6.2.1 E.U.T. Operation:	
		6.2.2 Test Setup Diagram:	
		6.2.3 Test Data:	15
	6.3	Maximum Conducted Output Power	16
		6.3.1 E.U.T. Operation:	
		6.3.2 Test Setup Diagram:	
	• •	6.3.3 Test Data:	
	6.4	Power Spectral Density	
		<ul><li>6.4.1 E.U.T. Operation:</li><li>6.4.2 Test Setup Diagram:</li></ul>	
		6.4.3 Test Data:	
	6.5	Emissions in non-restricted frequency bands	
		6.5.1 E.U.T. Operation:	
		6.5.2 Test Setup Diagram:	
		6.5.3 Test Data:	20
	6.6	Band edge emissions (Radiated)	
		6.6.1 E.U.T. Operation:	
		6.6.2 Test Setup Diagram:	
	<u> </u>	6.6.3 Test Data:	
	6.7	Emissions in restricted frequency bands (below 1GHz)	23



	6.7	7.1 E.U.T. Operation:	
		7.2 Test Setup Diagram:	
		7.3 Test Data:	
	6.8 En	missions in restricted frequency bands (above 1GHz)	
	6.8	8.1 E.U.T. Operation:	
		8.2 Test Setup Diagram:	
	6.8	8.3 Test Data:	27
7	TEST SE	ETUP PHOTOS	
8		NSTRUCTIONAL DETAILS (EUT PHOTOS)	
-			



#### Introduction 1

#### 1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Phone Number:	+86-0755-23146130	
Fax Number:	+86-0755-23146130	

#### Identification of the Responsible Testing Location 1.2

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.	
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, T Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number: +86-0755-23146130	
Fax Number: +86-0755-23146130	
FCC Registration Number:	518915
Designation Number:	CN1330

#### 1.3 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 **Product Information**

#### 2.1 Application Information

Company Name:	Zhongshan Firefly Image Technology CO., LTD
Address:	3rd Floor, Building A, No.101 Qianjin fourth Road, Third Industrial Zone, Tanzhou, Zhongshan, Guangdong, China

#### 2.2 Manufacturer Information

Company Name:	Zhongshan Firefly Image Technology CO., LTD
Address:	3rd Floor, Building A, No.101 Qianjin fourth Road, Third Industrial Zone, Tanzhou, Zhongshan, Guangdong, China

#### 2.3 Factory Information

Company Name:	Zhongshan Firefly Image Technology CO., LTD
Address:	3rd Floor, Building A, No.101 Qianjin fourth Road, Third Industrial Zone, Tanzhou, Zhongshan, Guangdong, China

### 2.4 General Description of Equipment under Test (EUT)

EUT Name:	Remote Control
Test Model Number:	BT-2
Series Model Number:	N/A
Description of Model name differentiation:	N/A
Hardware Version	N/A
Software and Firmware Version	N/A

#### 2.5 Technical Information

Power Supply:	DC 3V button battery
Sample ID.:	S01, S02
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Antenna Type:	PCB antenna
Antenna Gain <sup>#</sup> :	4.41dBi
Note:	

#: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.
Bluetooth Version: 4.2



#### 3 **Summary of Test Results**

#### **Test Standards** 3.1

The tests were performed according to following standards: 47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

#### 3.2 Uncertainty of Test

Item	Measurement Uncertainty	
Conducted Emission (150 kHz-30 MHz)	±2.64dB	
The following measurement uncertainty levels have been estimated for tests performed on the EUT as		
specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty	ainty expressed at approximately	

#### 3.3 Summary of Test Result

the 95% confidence level using a coverage factor of k=2.

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	N/A
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass



#### **Test Configuration** 4

#### **Test Equipment List** 4.1

Conducted Emission at AC power line							
Equipment Manufacturer Model No		Model No	Inventory No	Cal Date	Cal Due Date		
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23		
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23		
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23		
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22		
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2022-11-24	2023-11-23		

Occupied Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	, etm-6050c 20211026		2022-11-24	2023-11-23		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23		

Maximum Conducted Output Power							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A 20210928007		2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c 2021		2022-11-24	2023-11-23		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23		

Power Spectral Density							
Equipment Manufacturer Model No Inventory No Cal Date Cal Due Dat							
RFTest software	/	V1.00	/	/	/		

Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Page 8 of 59



RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Emissions in non-restricted frequency bands							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A 20210928007		2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23		
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23		
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23		

Band edge emissions (Radiated)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23		
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23		
RE Cable	REBES Talent	REBES Talent UF1-SMASMAM-1 21101566 20		2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23		
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/		
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27		
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23		
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23		

Total or partial reproduction of this document without permission of the Laboratory is not allowed.Page 9 of 5BTF Testing Lab (Shenzhen) Co., Ltd.F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK BBHA	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricted frequency bands (below 1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23		
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23		
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/		
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27		
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23		
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23		
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/		
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23		
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21		
EZ_EMC	Frad	FA-03A2 RE+	/	/	/		
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	/		
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27		

Emissions in restricted frequency bands (above 1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23		
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23		
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23		

Total or partial reproduction of this document without permission of the Laboratory is not allowed.Page 10 of 5BTF Testing Lab (Shenzhen) Co., Ltd.F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Page 10 of 59



POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27



## 4.2 Test Auxiliary Equipment

	Title	Manufacturer	Model No.	Serial No.				
	N/A	N/A	N/A	/				
4.3 T	4.3 Test Modes							
No.	Test Modes	Description						
TM1	TX mode		ect to AC power line and v ith GFSK modulation.	vorks in continuously				



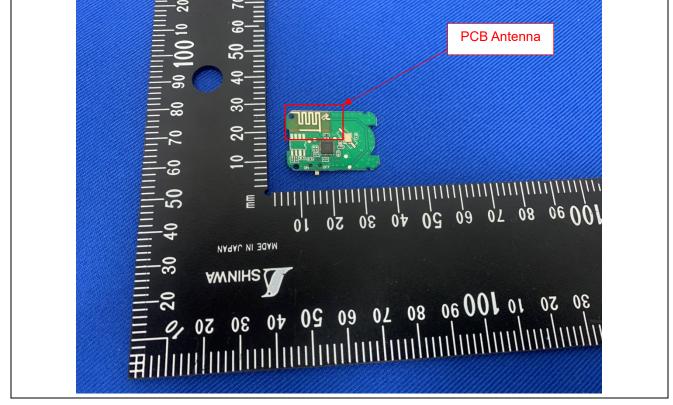
## 5 Evaluation Results (Evaluation)

#### 5.1 Antenna requirement

```
Test 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.

#### 5.1.1 Conclusion:





## 6 Radio Spectrum Matter Test Results (RF)

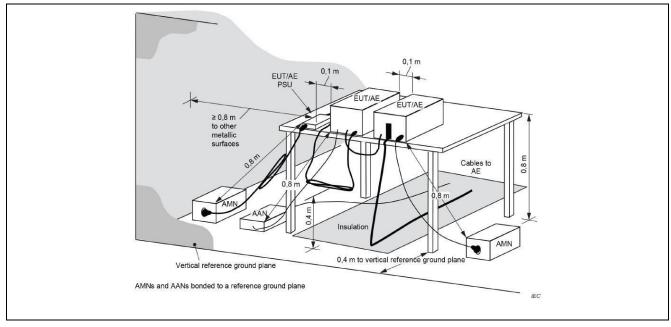
#### 6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).			
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices			
	Frequency of emission (MHz)	Conducted limit (dB)	dBµV)	
Test Limit:		Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	*Decreases with the logarithm of the frequency.			

#### 6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar

#### 6.1.2 Test Setup Diagram:



#### 6.1.3 Test Data:

Not applicable.

The EUT can't be connected to AC power line, so there is no need to conduct this test item.



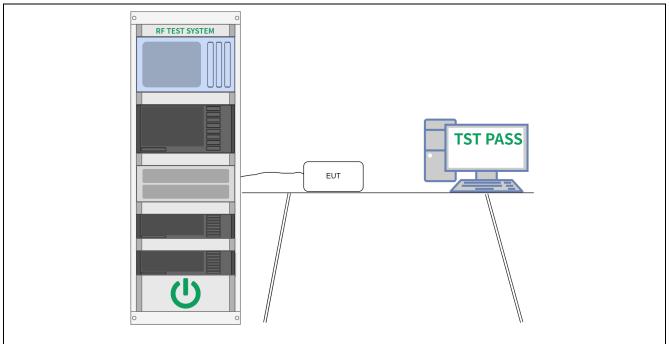
#### 6.2 Occupied Bandwidth

Test Requirement:	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	DTS bandwidth
Test Limit:	Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Procedure:	<ul> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the VBW &gt;= [3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</li> </ul>

#### 6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar

#### 6.2.2 Test Setup Diagram:



#### 6.2.3 Test Data:

Please Refer to Appendix for Details.



## 6.3 Maximum Conducted Output Power

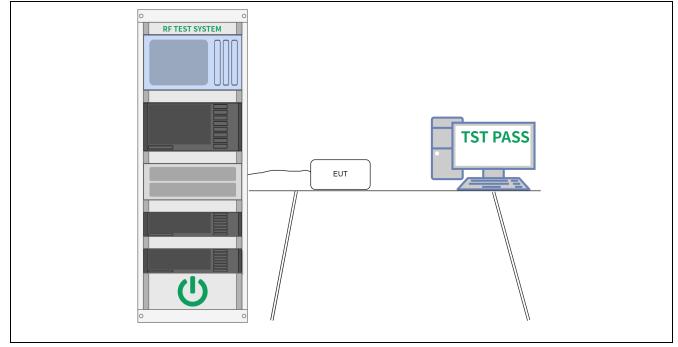
Test Requirement:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	Maximum peak conducted output power
Test Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power
6.3.1 E.U.T. Operation:	

#### 6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar



#### 6.3.2 Test Setup Diagram:



#### 6.3.3 Test Data:

Please Refer to Appendix for Details.



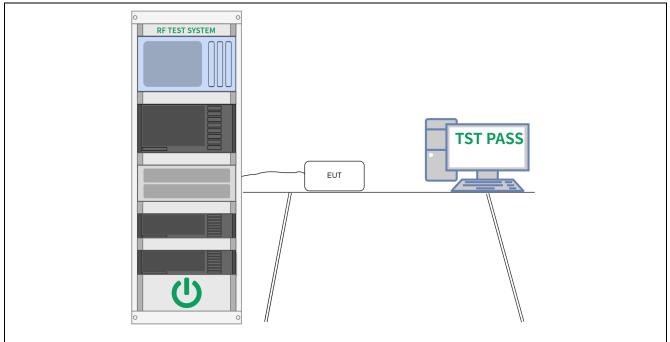
#### Power Spectral Density 6.4

Test Requirement:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	Maximum power spectral density level in the fundamental emission
Test Limit:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

#### 6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar

#### 6.4.2 Test Setup Diagram:



#### 6.4.3 Test Data:

Please Refer to Appendix for Details.



### 6.5 Emissions in non-restricted frequency bands

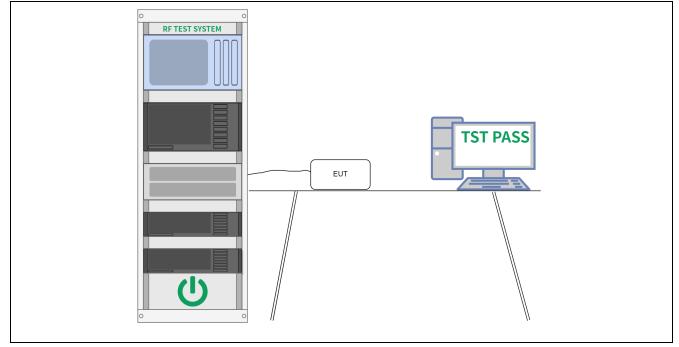
Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Emissions in nonrestricted frequency bands
Test Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

#### 6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar



#### 6.5.2 Test Setup Diagram:



#### 6.5.3 Test Data:

Please Refer to Appendix for Details.



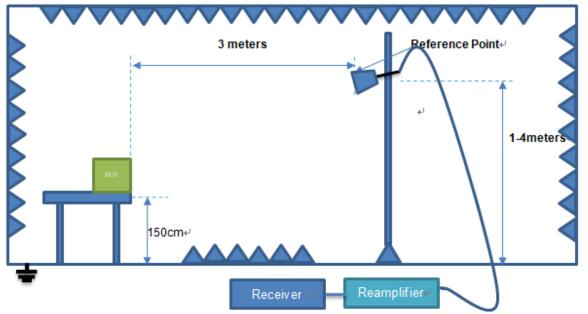
#### Band edge emissions (Radiated) 6.6

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Method:	Radiated emissions tests		
Test Limit:	radiators operating unde 54-72 MHz, 76-88 MHz,	Field strength (microvolts/meter)         2400/F(kHz)         24000/F(kHz)         30         100 **         150 **         200 **         500         paragraph (g), fundamental emistre in this section shall not be located in the section shall not be locat	d in the frequency bands However, operation within
Procedure:	ANSI C63.10-2013 section	on 6.6.4	

#### 6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	46.7 %
Atmospheric Pressure:	1010 mbar

#### 6.6.2 Test Setup Diagram:



Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



#### 6.6.3 Test Data:

Test N	/lode: GFS	К										
Pol.	Freque ncy (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenn a Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n (dB)	Detect or Type	Result		
	Low Channel: 2402MHz											
Н	2390.00	45.83	29.15	3.41	34.01	44.38	74.00	-29.62	PK	PASS		
Н	2400.00	63.04	29.16	3.43	34.01	61.62	74.00	-12.38	PK	PASS		
V	2390.00	46.66	29.15	3.41	34.01	45.21	74.00	-28.79	PK	PASS		
V	2400.00	65.39	29.16	3.43	34.01	63.97	74.00	-10.03	PK	PASS		
Н	2390.00	35.71	29.15	3.41	34.01	34.26	54.00	-19.74	AV	PASS		
Н	2400.00	47.13	29.16	3.43	34.01	45.71	54.00	-8.30	AV	PASS		
V	2390.00	35.87	29.15	3.41	34.01	34.42	54.00	-19.58	AV	PASS		
V	2400.00	44.06	29.16	3.43	34.01	42.64	54.00	-11.37	AV	PASS		
				High Cł	nannel: 248	80MHz						
Н	2483.50	48.29	29.28	3.53	34.03	47.07	74.00	-26.94	PK	PASS		
Н	2500.00	46.90	29.30	3.56	34.03	45.73	74.00	-28.28	PK	PASS		
V	2483.50	49.62	29.28	3.53	34.03	48.40	74.00	-25.60	PK	PASS		
V	2500.00	48.18	29.30	3.56	34.03	47.01	74.00	-27.00	PK	PASS		
Н	2483.50	38.58	29.28	3.53	34.03	37.36	54.00	-16.65	AV	PASS		
Н	2500.00	36.16	29.30	3.56	34.03	34.99	54.00	-19.02	AV	PASS		
V	2483.50	40.03	29.28	3.53	34.03	38.81	54.00	-15.19	AV	PASS		
V	2500.00	36.32	29.30	3.56	34.03	35.15	54.00	-18.85	AV	PASS		
	<b>Remark:</b> 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level -											



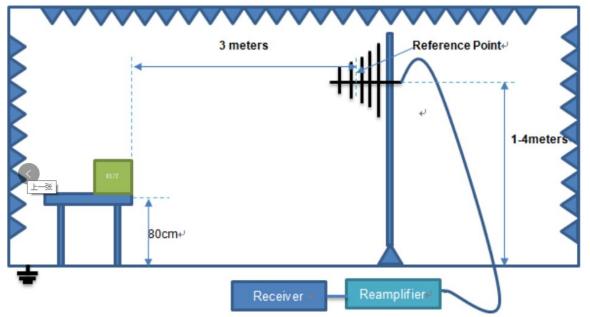
#### 6.7 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).								
Test Method:	Radiated emissions tests								
Test Limit:	Frequency (MHz) 0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960 ** Except as provided in par radiators operating under th 54-72 MHz, 76-88 MHz, 174 these frequency bands is per-	Field strength (microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100 ** 150 ** 200 ** 500 ragraph (g), fundamental emission is section shall not be located in t 4-216 MHz or 470-806 MHz. How ermitted under other sections of th	the frequency bands vever, operation within						
Procedure:	§§ 15.231 and 15.241. ANSI C63.10-2013 section	6.6.4							

#### 6.7.1 E.U.T. Operation:

Operating Environment:						
Temperature:	24.8 °C					
Humidity:	46.7 %					
Atmospheric Pressure:	1010 mbar					

#### 6.7.2 Test Setup Diagram:



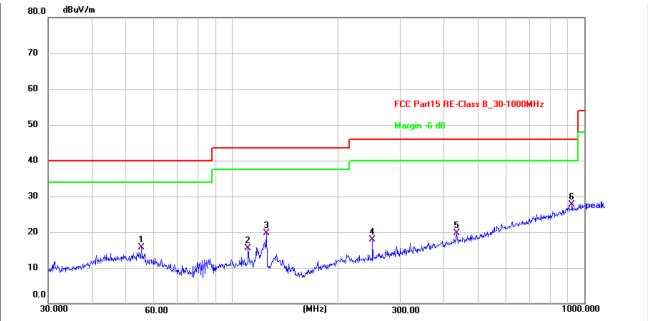
Total or partial reproduction of this document without permission of the Laboratory is not allowed.

BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



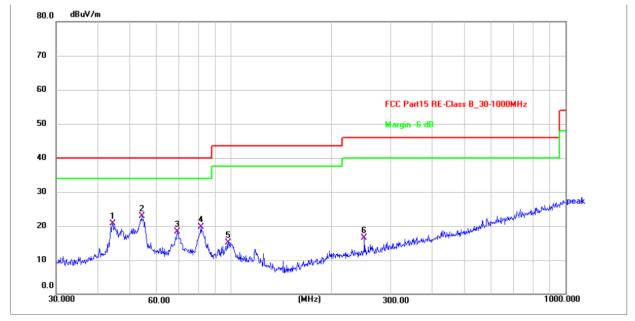
#### 6.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	55.2207	29.71	-14.06	15.65	40.00	-24.35	QP	Ρ	
2	110.9571	31.37	-15.90	15.47	43.50	-28.03	QP	Ρ	
3	125.0066	36.39	-16.74	19.65	43.50	-23.85	QP	Ρ	
4	250.3012	30.90	-12.97	17.93	46.00	-28.07	QP	Ρ	
5	434.0651	28.90	-9.23	19.67	46.00	-26.33	QP	Ρ	
6 *	922.5157	27.94	-0.14	27.80	46.00	-18.20	QP	Ρ	





#### TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	44.2752	34.45	-13.84	20.61	40.00	-19.39	QP	Р	
2 *	54.0711	36.76	-13.95	22.81	40.00	-17.19	QP	Р	
3	69.1141	35.63	-17.29	18.34	40.00	-21.66	QP	Р	
4	81.2117	38.76	-19.12	19.64	40.00	-20.36	QP	Р	
5	98.1419	30.82	-15.62	15.20	43.50	-28.30	QP	Р	
6	250.3012	29.63	-13.15	16.48	46.00	-29.52	QP	Р	



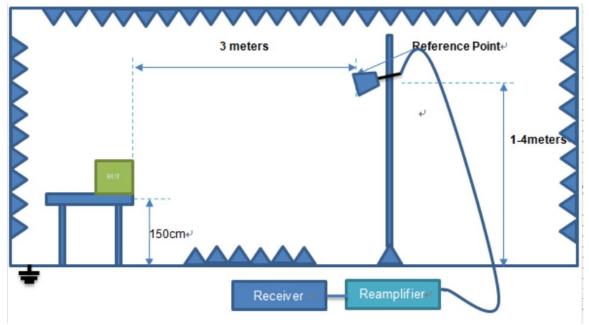
#### 6.8 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § $15.205(a)$ , must also comply with the radiated emission limits specified in § $15.209(a)(see \ 15.205(c))$ .								
Test Method:	Radiated emissions tests								
Test Limit:	Frequency (MHz) 0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960 ** Except as provided in paradiators operating under the 54-72 MHz, 76-88 MHz, 17 these frequency bands is p	Field strength (microvolts/meter)         2400/F(kHz)         24000/F(kHz)         30         100 **         150 **         200 **         500         ragraph (g), fundamental emission         nis section shall not be located in the sections of the sections and the sections of the sections of the sections of the	the frequency bands vever, operation within						
Procedure:	§§ 15.231 and 15.241.           ANSI C63.10-2013 section	6.6.4							

#### 6.8.1 E.U.T. Operation:

Operating Environment:						
Temperature:	24.8 °C					
Humidity:	46.7 %					
Atmospheric Pressure:	1010 mbar					

#### 6.8.2 Test Setup Diagram:



Total or partial reproduction of this document without permission of the Laboratory is not allowed.

BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



#### 6.8.3 Test Data:

Test Mode:	CH00			Test	Test channel: Lowest						
	Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4804.00	37.75	34.04	6.58	34.09	44.28	74.00	-29.72	V			
7206.00	32.12	37.11	7.73	34.50	42.46	74.00	-31.54	V			
9608.00	31.73	39.31	9.23	34.79	45.48	74.00	-28.52	V			
12010.00	*					74.00		V			
14412.00	*					74.00		V			
4804.00	42.13	34.04	6.58	34.09	48.66	74.00	-25.34	Н			
7206.00	33.92	37.11	7.73	34.50	44.26	74.00	-29.74	Н			
9608.00	31.20	39.31	9.23	34.79	44.95	74.00	-29.05	Н			
12010.00	*					74.00		Н			
14412.00	*					74.00		Н			
			Av	verage Valu	е						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4804.00	26.48	34.04	6.58	34.09	33.01	54.00	-20.99	V			
7206.00	20.76	37.11	7.73	34.50	31.10	54.00	-22.90	V			
9608.00	19.81	39.31	9.23	34.79	33.56	54.00	-20.44	V			
12010.00	*					54.00		V			
14412.00	*					54.00		V			
4804.00	30.76	34.04	6.58	34.09	37.29	54.00	-16.71	Н			
7206.00	22.96	37.11	7.73	34.50	33.30	54.00	-20.70	Н			
9608.00	19.58	39.31	9.23	34.79	33.33	54.00	-20.67	Н			
12010.00	*					54.00		Н			
14412.00	*					54.00		Н			



#### Test Results (1GHz-25GHz)

Test Mode:	CH19			Test	Test channel: Middle						
	Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4880.00	36.84	34.38	6.69	34.09	43.82	74.00	-30.18	V			
7320.00	31.52	37.22	7.78	34.53	41.99	74.00	-32.01	V			
9760.00	31.20	39.46	9.35	34.80	45.21	74.00	-28.79	V			
12200.00	*					74.00		V			
14640.00	*					74.00		V			
4880.00	41.04	34.38	6.69	34.09	48.02	74.00	-25.98	Н			
7320.00	33.24	37.22	7.78	34.53	43.71	74.00	-30.29	Н			
9760.00	30.58	39.46	9.35	34.80	44.59	74.00	-29.41	Н			
12200.00	*					74.00		Н			
14640.00	*					74.00		Н			
			A۱	/erage Valu	e						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4880.00	25.76	34.38	6.69	34.09	32.74	54.00	-21.26	V			
7320.00	20.27	37.22	7.78	34.53	30.74	54.00	-23.26	V			
9760.00	19.38	39.46	9.35	34.80	33.39	54.00	-20.61	V			
12200.00	*					54.00		V			
14640.00	*					54.00		V			
4880.00	29.94	34.38	6.69	34.09	36.92	54.00	-17.08	Н			
7320.00	22.41	37.22	7.78	34.53	32.88	54.00	-21.12	Н			
9760.00	19.07	39.46	9.35	34.80	33.08	54.00	-20.92	Н			
12200.00	*					54.00		Н			
14640.00	*					54.00		Н			



#### Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	Test channel: Highest						
	Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4960.00	35.96	34.72	6.79	34.09	43.38	74.00	-30.62	V			
7440.00	30.94	37.34	7.82	34.57	41.53	74.00	-32.47	V			
9920.00	30.67	39.62	9.46	34.81	44.94	74.00	-29.06	V			
12400.00	*					74.00		V			
14880.00	*					74.00		V			
4960.00	39.97	34.72	6.79	34.09	47.39	74.00	-26.61	Н			
7440.00	32.57	37.34	7.82	34.57	43.16	74.00	-30.84	Н			
9920.00	29.97	39.62	9.46	34.81	44.24	74.00	-29.76	Н			
12400.00	*					74.00		Н			
14880.00	*					74.00		Н			
			A۱	/erage Valu	e						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.			
4960.00	25.07	34.72	6.79	34.09	32.49	54.00	-21.51	V			
7440.00	19.81	37.34	7.82	34.57	30.40	54.00	-23.60	V			
9920.00	18.96	39.62	9.46	34.81	33.23	54.00	-20.77	V			
12400.00	*					54.00		V			
14880.00	*					54.00		V			
4960.00	29.16	34.72	6.79	34.09	36.58	54.00	-17.42	Н			
7440.00	21.89	37.34	7.82	34.57	32.48	54.00	-21.52	Н			
9920.00	18.59	39.62	9.46	34.81	32.86	54.00	-21.14	Н			
12400.00	*					54.00		Н			
14880.00	*					54.00		Н			

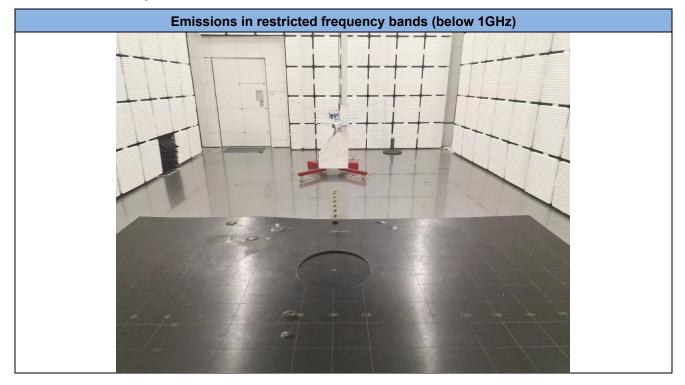
#### Remark:

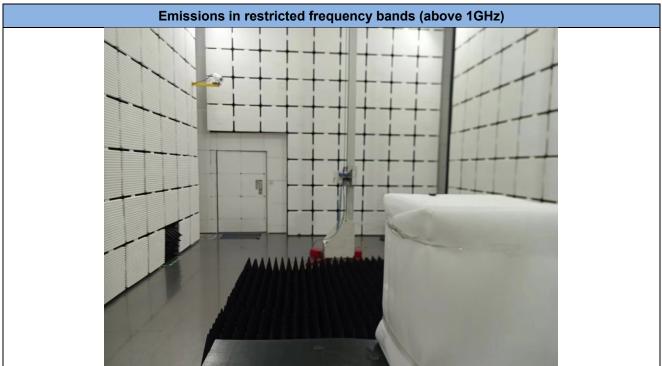
1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



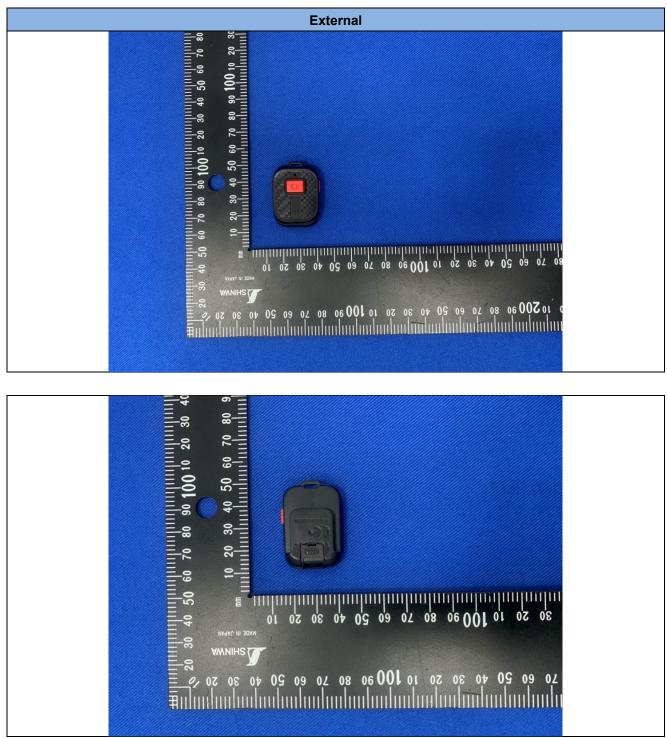
## 7 Test Setup Photos





Total or partial reproduction of this document without permission of the Laboratory is not allowed.Page 30 of 59BTF Testing Lab (Shenzhen) Co., Ltd.F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

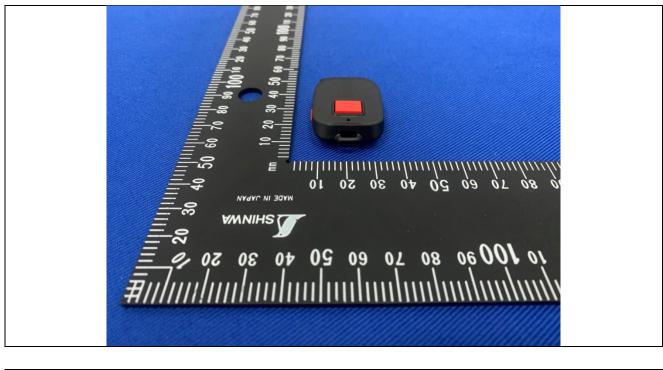




## 8 EUT Constructional Details (EUT Photos)

Total or partial reproduction of this document without permission of the Laboratory is not allowed. Page 31 of 59 BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



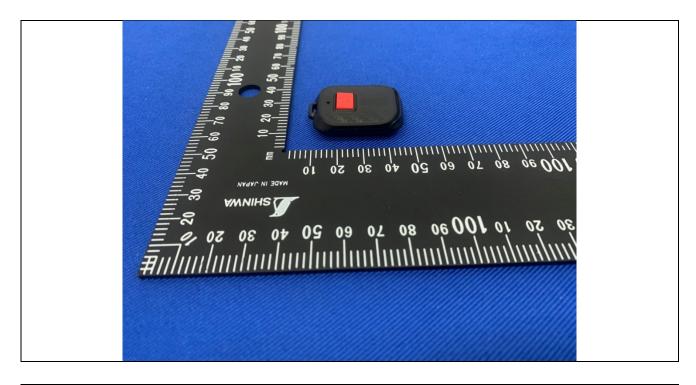




Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Page 32 of 59



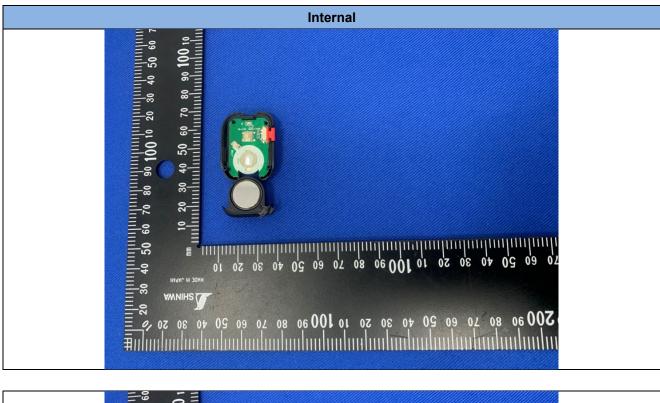


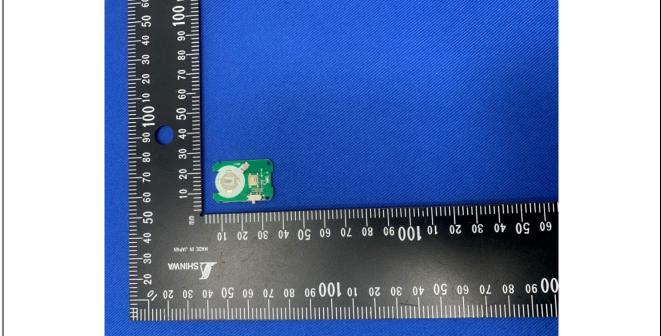


Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Page 33 of 59



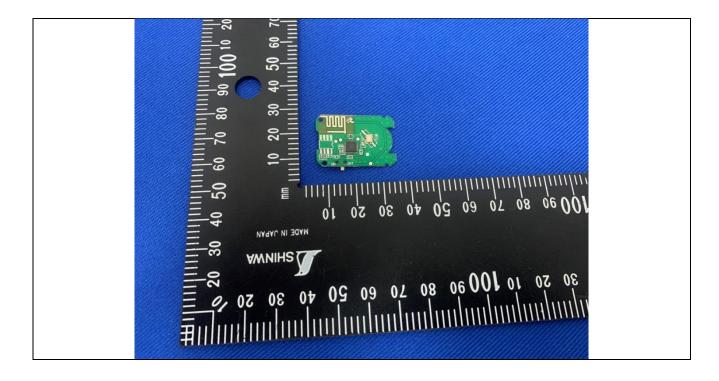




Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China







# Appendix

Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

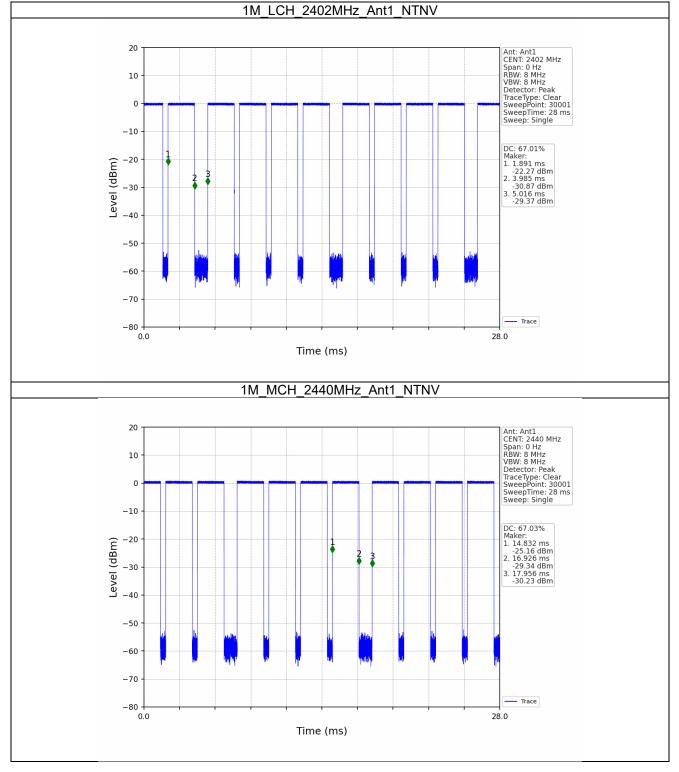
Page 36 of 59



#### 1. Duty Cycle 1.1 Ant1 1.1.1 Test Result

	Ant1								
Mada	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC		
Mode	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)		
1M	SISO	2402	2.094	3.125	67.01	1.74	16.78		
		2440	2.094	3.124	67.03	1.74	16.78		
		2480	2.094	3.125	67.01	1.74	16.78		

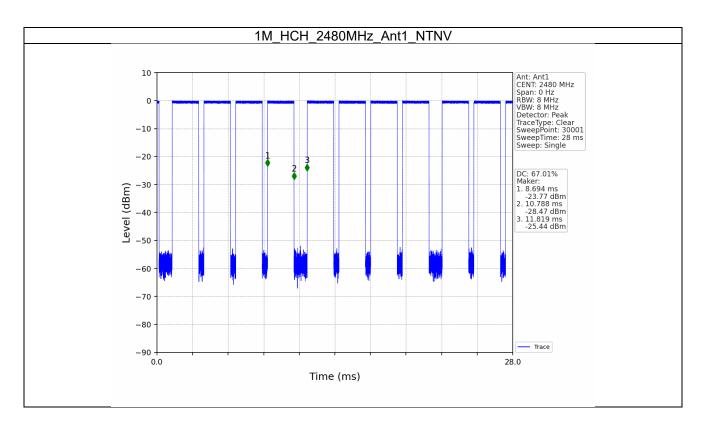




Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China





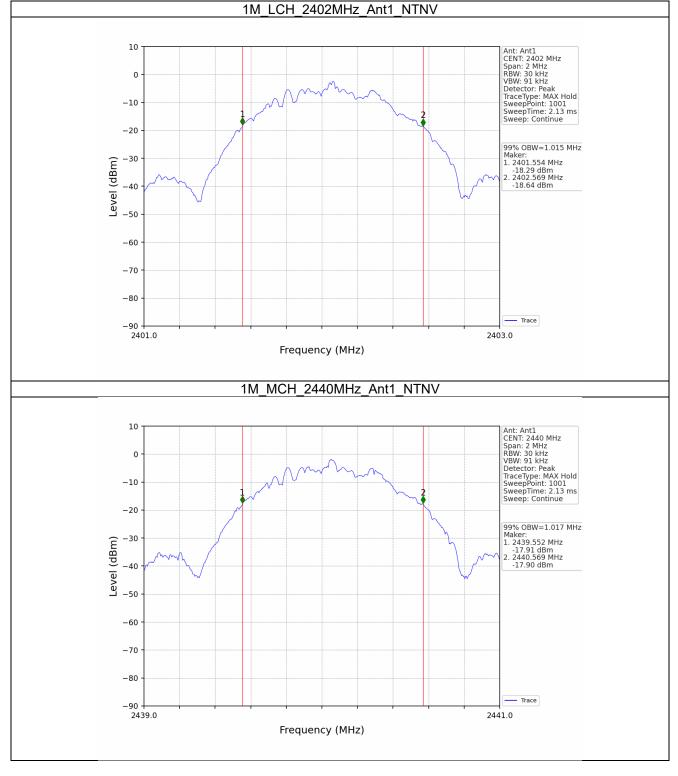


#### 2. Bandwidth

## 2.1 OBW

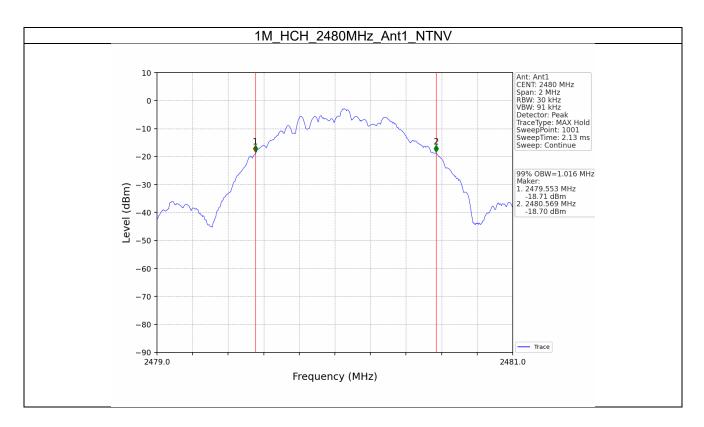
	Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict
Mode		Туре	(MHz)	,	Result	Vordiot
			2402	1	1.015	Pass
	1M	SISO	2440	1	1.017	Pass
		_	2480	1	1.016	Pass





Total or partial reproduction of this document without permission of the Laboratory is not allowed.Page 41 of 59BTF Testing Lab (Shenzhen) Co., Ltd.F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



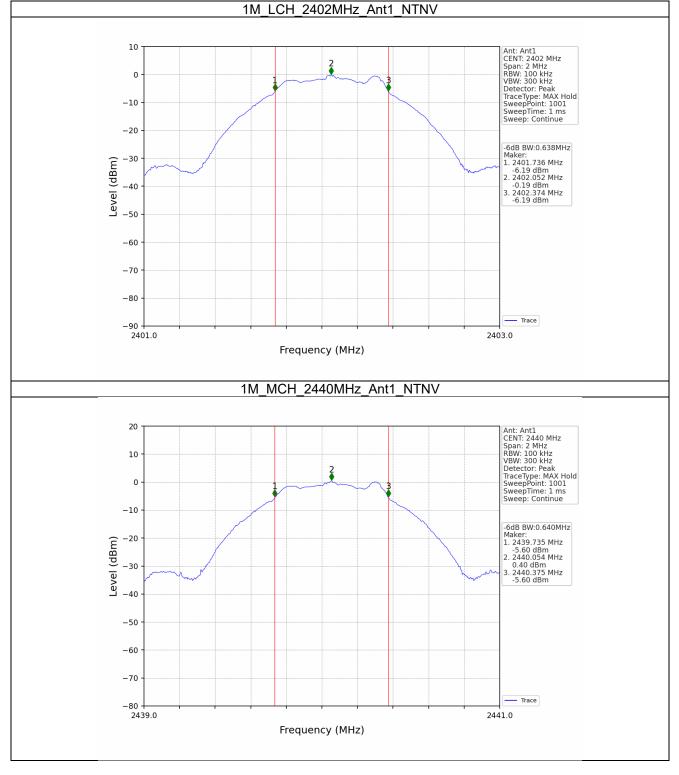




## 2.2 6dB BW

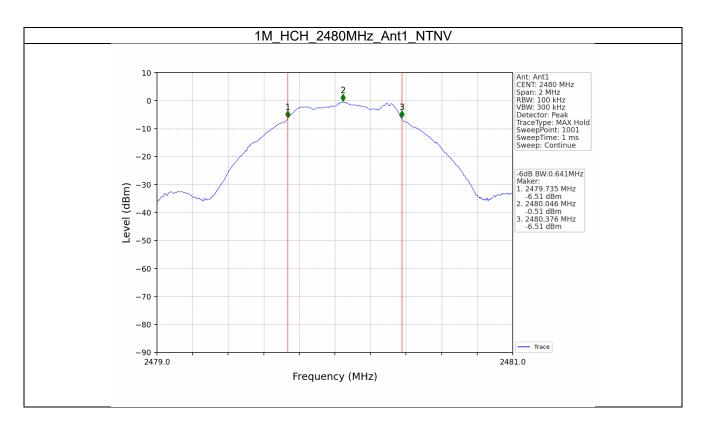
Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)		Verdict
Mode	Туре	(MHz)		Result	Limit	verdict
		2402	1	0.638	>=0.5	Pass
1M	SISO	2440	1	0.640	>=0.5	Pass
		2480	1	0.641	>=0.5	Pass





Total or partial reproduction of this document without permission of the Laboratory is not allowed. Page 44 of 59 BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China





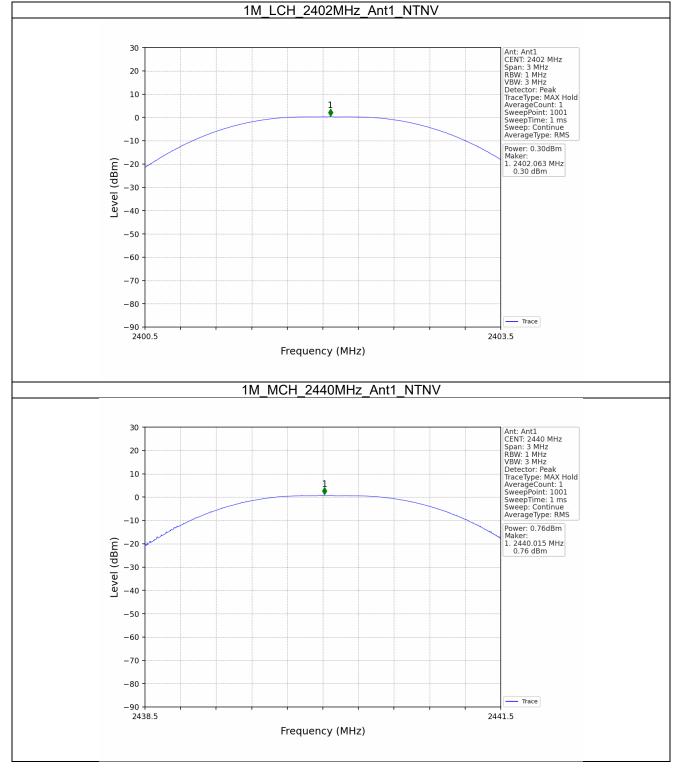


## 3. Maximum Conducted Output Power

3.1 Power

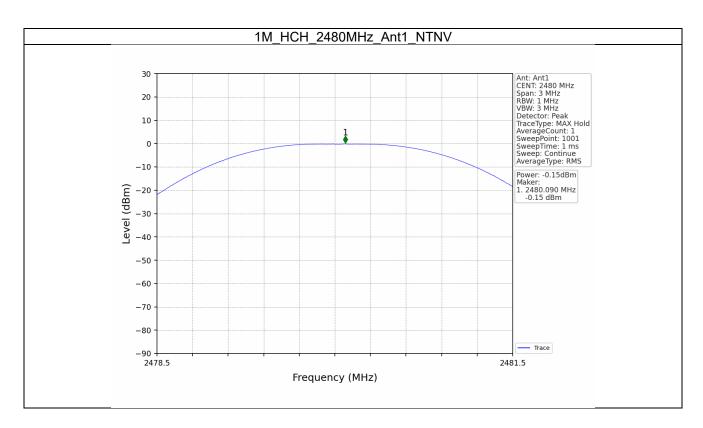
Mode	TX	Frequency	uency Maximum Peak Conducted Output Power (dBm)		Verdict
Mode	Туре	(MHz)	ANT1	Limit	verdici
1M	SISO	2402	0.30	<=30	Pass
		2440	0.76	<=30	Pass
		2480	-0.15	<=30	Pass





Total or partial reproduction of this document without permission of the Laboratory is not allowed.Page 47 of 59BTF Testing Lab (Shenzhen) Co., Ltd.F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China





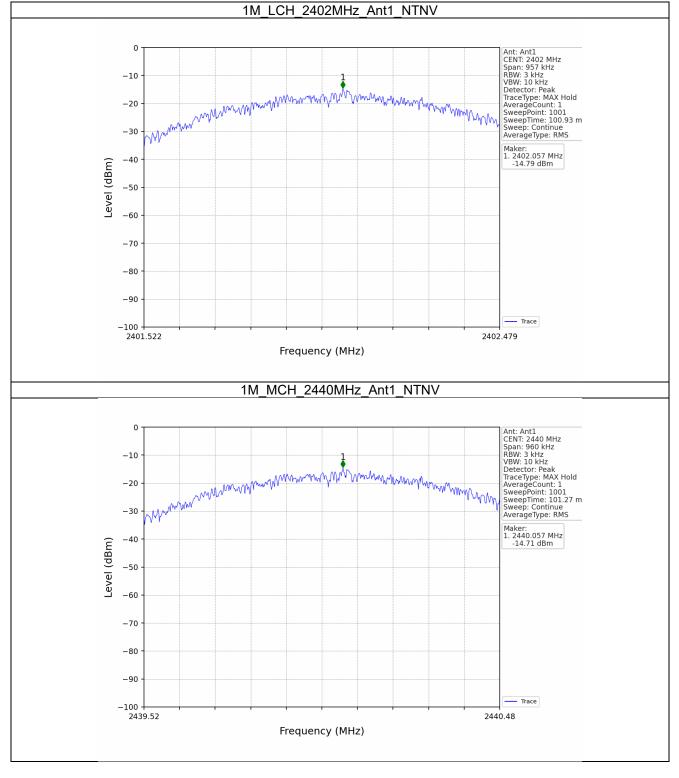


## 4. Maximum Power Spectral Density

#### 4.1 PSD

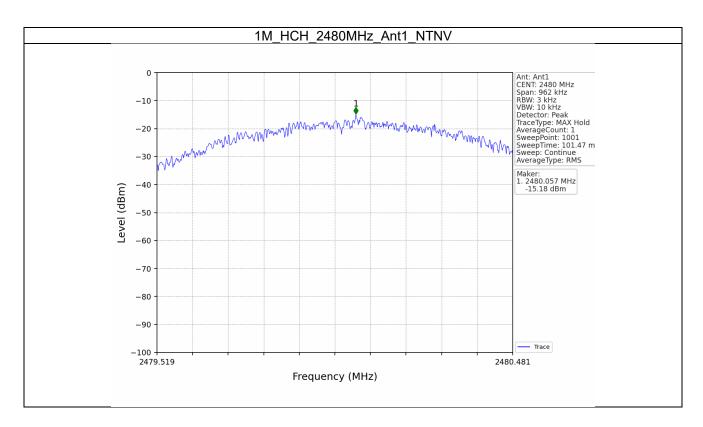
Mode	TX	Frequency Maximum PSD (dBn		D (dBm/3kHz)	Verdict
Mode	Туре	(MHz)	ANT1	Limit	Veruici
		2402	-14.79	-14.79 <=8	
1M	SISO	2440	-14.71	<=8	Pass
		2480	-15.18	<=8	Pass





Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China





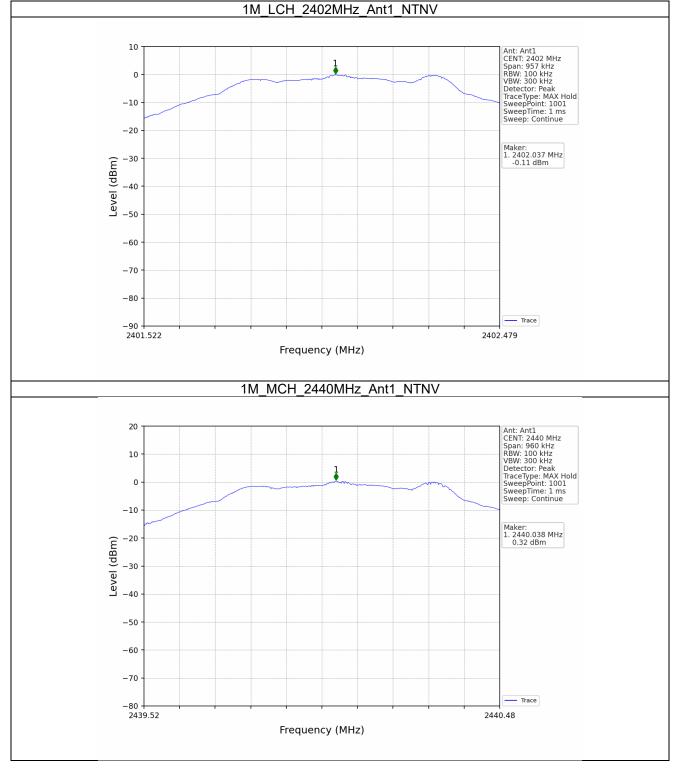


# 5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)		
		2402	1	-0.11		
1M	SISO	2440	1	0.32		
		2480	1	-0.39		
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level						
was used to establish the reference level.						





Total or partial reproduction of this document without permission of the Laboratory is not allowed. Page 53 of 59 BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China



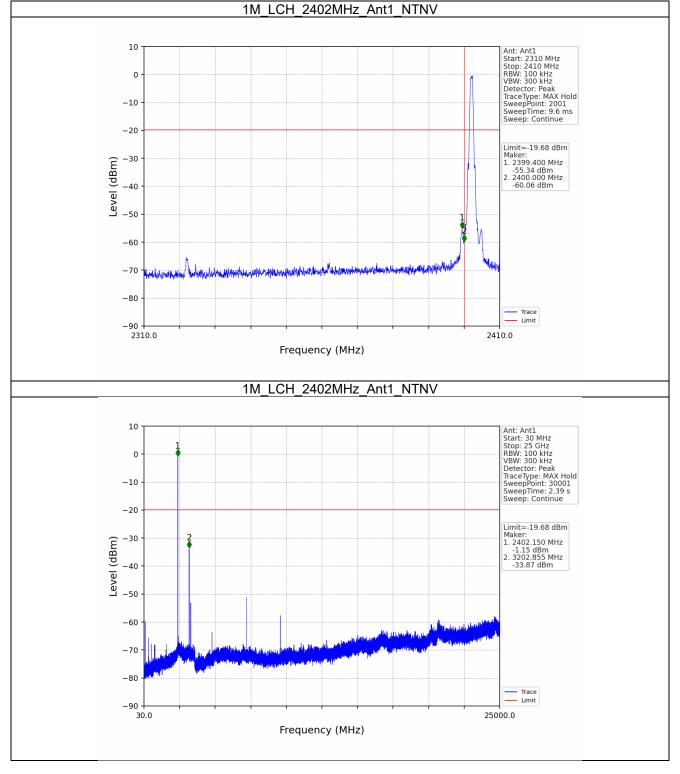




# 5.2 CSE

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict			
		2402	1	0.32	-19.68	Pass			
1M	SISO	2440	1	0.32	-19.68	Pass			
		2480	1	0.32	-19.68	Pass			
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level									
was used to	was used to establish the reference level.								

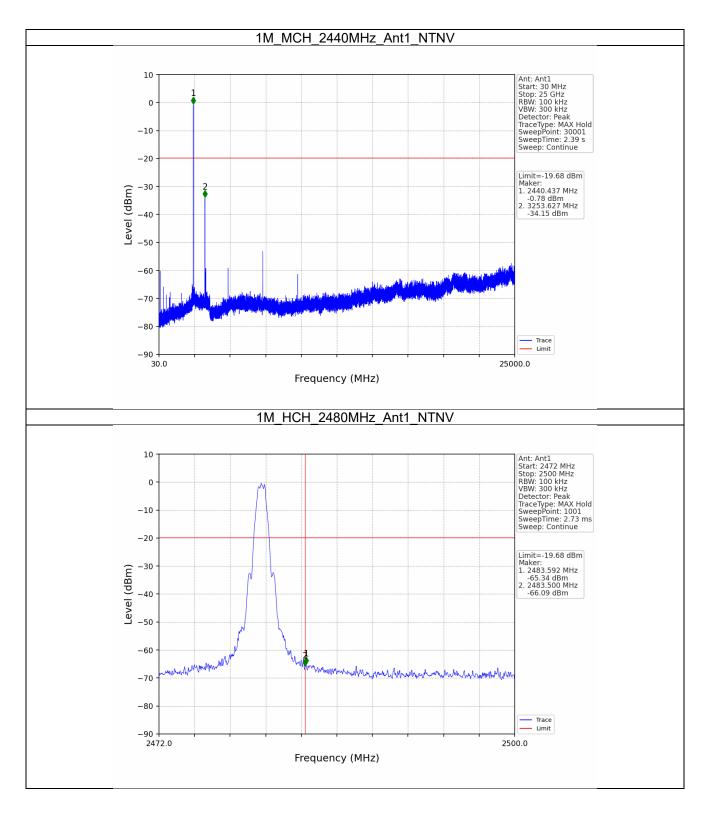




Total or partial reproduction of this document without permission of the Laboratory is not allowed. Page 5 BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

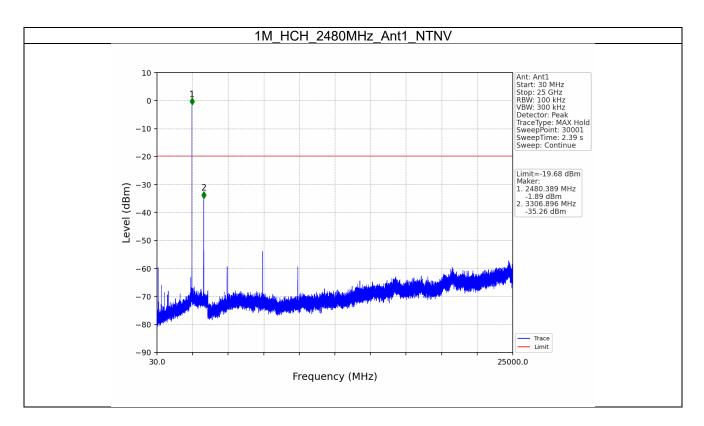




Total or partial reproduction of this document without permission of the Laboratory is not allowed. BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China









BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

www.btf-lab.com

# -- END OF REPORT --