

# **RF Test Report**

## For

## **Applicant Name:**

## DOKE COMMUNICATION (HK) LIMITED

Address:

Address:

EUT Name: Brand Name: Model Number: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA Wireless Earphone Blackview AirBuds 10 Pro

## **Issued By**

## **Company Name:**

**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

Report Number: Test Standards: FCC ID: Test Conclusion: Test Date: Date of Issue:

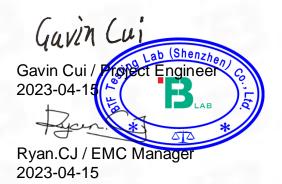
BTF230328R00201 47 CFR Part 15.247 2A7DX-AIRBUDS10PRO Pass 2023-03-29 to 2023-04-14 2023-04-15

Prepared By:

Date:

Approved By:

Date:



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Revision History				
	-			

Note: Once the revision has been made, then previous versions reports are invalid.

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## 1 Introduction

## 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

## 1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.				
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou				
Address.	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.

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#### 2 **Product Information**

#### **Application Information** 2.1

Company Name:	DOKE COMMUNICATION (HK) LIMITED			
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA			
2.2 Manufacturer Information				

Company Name:	Shenzhen DOKE Electronic Co.,Ltd
Address:	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China

#### General Description of Equipment under Test (EUT) 2.3

EUT Name:	Wireless Earphone
Test Model Number:	AirBuds 10 Pro

## 2.4 Technical Information

Power Supply:	DC 3.7V
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Antenna Type:	FPC antenna
Antenna Gain:	0.49dBi



## 3 Summary of Test Results

## 3.1 Test Standards

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

## 3.3 Summary of Test Result

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)	Pass	
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	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

<b>Occupied Bandwidth</b>	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	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

<b>Maximum Conducted</b>	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	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

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

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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

<b>Emissions in non-res</b>	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	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	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	

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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	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

<b>Emissions in restricte</b>	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

<b>Emissions in restricte</b>	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	

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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
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

The EUT was tested as an independent device.

4.3 Test Mode	S
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No.	Test Modes	Description
TM1	TX mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation.



## 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.
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## 6 Radio Spectrum Matter Test Results (RF)

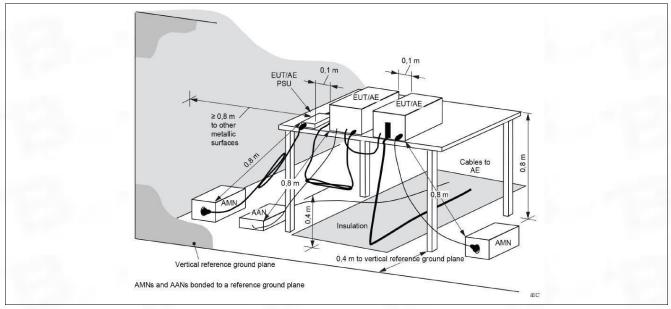
## 6.1 Conducted Emission at AC power line

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 (dBµV)			
Test Limit:		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	46			
	5-30 60 50				
	*Decreases with the logarithm of th	ne frequency.			

## 6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.3 °C
Humidity:	49 %
Atmospheric Pressure:	1010 mbar

## 6.1.2 Test Setup Diagram:

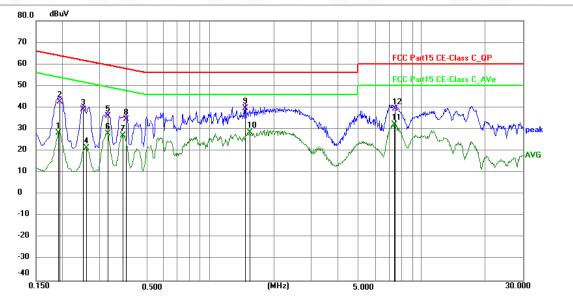


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## 6.1.3 Test Data:

TM1 / Line: Line / Band: 2.4G / BW: 1 / CH: M



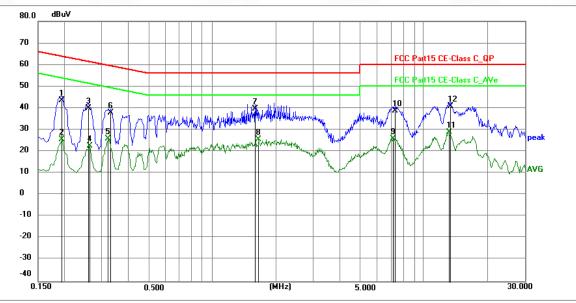
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1905	17.55	10.60	28.15	54.01	-25.86	AVG	Р	
2	0.1949	32.01	10.62	42.63	63.83	-21.20	QP	Р	
3	0.2490	28.40	10.63	39.03	61.79	-22.76	QP	Р	
4	0.2580	10.74	10.63	21.37	51.50	-30.13	AVG	Р	
5	0.3255	25.39	10.62	36.01	59.57	-23.56	QP	Р	
6	0.3255	17.43	10.62	28.05	49.57	-21.52	AVG	Р	
7	0.3840	16.51	10.62	27.13	48.19	-21.06	AVG	Р	
8	0.3975	23.84	10.62	34.46	57.91	-23.45	QP	Р	
9 *	1.4683	28.87	10.74	39.61	56.00	-16.39	QP	Р	
10	1.5404	17.93	10.73	28.66	46.00	-17.34	AVG	Р	
11	7.3724	21.45	10.76	32.21	50.00	-17.79	AVG	Р	
12	7.4670	28.57	10.78	39.35	60.00	-20.65	QP	Р	

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TM1 / Line: Neutral / Band: 2.4G / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	32.87	10.62	43.49	63.83	-20.34	peak	Р	
2	0.1949	14.85	10.62	25.47	53.83	-28.36	AVG	Р	
3	0.2580	29.46	10.63	40.09	61.50	-21.41	peak	Р	
4	0.2625	12.06	10.63	22.69	51.35	-28.66	AVG	Р	
5	0.3209	15.19	10.62	25.81	49.68	-23.87	AVG	Р	
6	0.3300	27.15	10.62	37.77	59.45	-21.68	peak	Р	
7 *	1.5945	29.07	10.73	39.80	56.00	-16.20	peak	Р	
8	1.6620	14.77	10.72	25.49	46.00	-20.51	AVG	Р	
9	7.1653	15.06	10.76	25.82	50.00	-24.18	AVG	Р	
10	7.3094	28.01	10.76	38.77	60.00	-21.23	peak	Р	
11	13.1775	17.88	10.87	28.75	50.00	-21.25	AVG	Р	
12	13.3755	30.13	10.86	40.99	60.00	-19.01	peak	Р	

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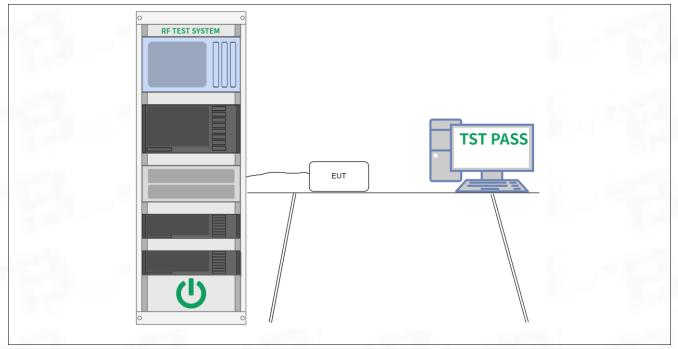
## 6.2 Occupied Bandwidth

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 x 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:	25.7 °C
Humidity:	51.7 %
Atmospheric Pressure:	1010 mbar

#### 6.2.2 Test Setup Diagram:



## 6.2.3 Test Data:

Please Refer to Appendix for Details.



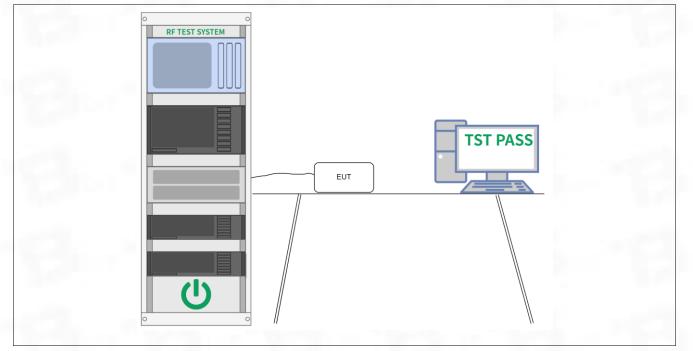
## 6.3 Maximum Conducted Output Power

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:	

Operating Environment:	
Temperature:	25.7 °C
Humidity:	51.7 %
Atmospheric Pressure:	1010 mbar



#### 6.3.2 Test Setup Diagram:



## 6.3.3 Test Data:

Please Refer to Appendix for Details.



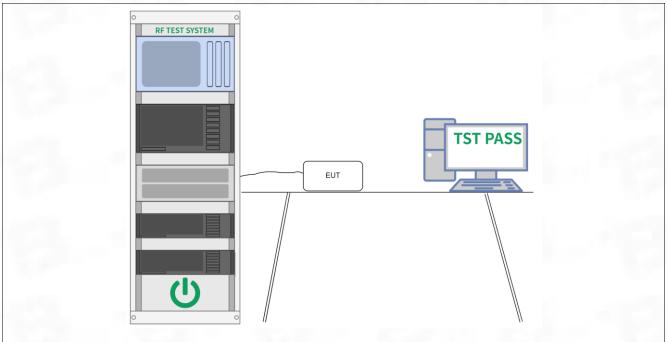
## 6.4 Power Spectral Density

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:	25.7 °C
Humidity:	51.7 %
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

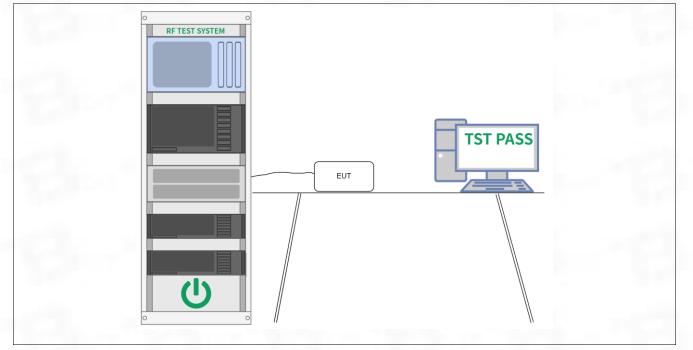
Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band 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:	25.7 °C		
Humidity:	51.7 %	the second se	
Atmospheric Pressure:	1010 mbar		



#### 6.5.2 Test Setup Diagram:



## 6.5.3 Test Data:

Please Refer to Appendix for Details.



## 6.6 Band edge emissions (Radiated)

Test Requirement:	15.205(a), must also co	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 test	Radiated emissions tests						
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	radiators operating unde 54-72 MHz, 76-88 MHz	paragraph (g), fundamental em er this section shall not be locate , 174-216 MHz or 470-806 MHz is permitted under other sections	ed in the frequency bands . However, operation within					
Procedure:	ANSI C63.10-2013 sect	ion 6.6.4						
6.6.1 E.U.T. Operation	n:	the second second second						
Operating Environment								
Temperature:	26.3 °C							

eperaninge.	
Temperature:	26.3 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar



## 6.6.2 Test Data:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	69.36	-30.59	38.77	74.00	-35.23	peak	Р
2	2390.000	70.14	-30.49	39.65	74.00	-34.35	peak	Р
3 *	2400.000	80.39	-30.48	49.91	74.00	-24.09	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	68.57	-30.59	37.98	74.00	-36.02	peak	Р
2	2390.000	69.98	-30.49	39.49	74.00	-34.51	peak	Р
3 *	2400.000	79.90	-30.48	49.42	74.00	-24.58	peak	Р

#### TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	76.72	-30.39	46.33	74.00	-27.67	peak	Р
2	2500.000	71.86	-30.37	41.49	74.00	-32.51	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	72.22	-30.39	41.83	74.00	-32.17	peak	Р
2	2500.000	70.18	-30.37	39.81	74.00	-34.19	peak	Р



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

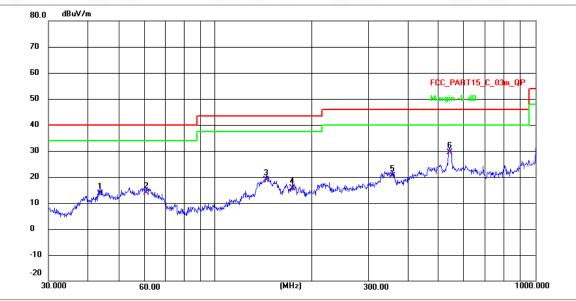
Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).						
Test Method:	Radiated emissions tests						
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
Test Limit:	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	radiators operating under 54-72 MHz, 76-88 MHz, 1	aragraph (g), fundamental emissi this section shall not be located ir 74-216 MHz or 470-806 MHz. Ho permitted under other sections of	n the frequency bands wever, operation within				
Procedure:	ANSI C63.10-2013 section	n 6.6.4					
6.7.1 E.U.T. Operation:	10 M 10 M 10 M						
Operating Environment:							

Operating Environment:	
Temperature:	23.6 °C
Humidity:	48 %
Atmospheric Pressure:	1010 mbar



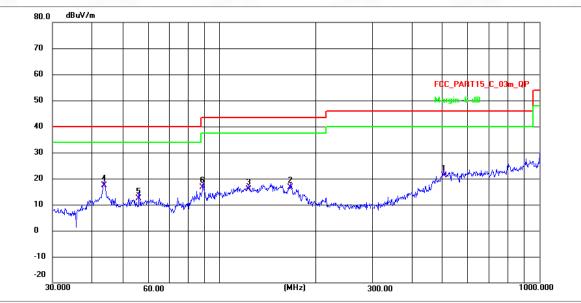
## 6.7.2 Test Data:

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	43.5820	31.91	-18.36	13.55	40.00	-26.45	QP	Р
2	60.4917	32.13	-18.19	13.94	40.00	-26.06	QP	Р
3	144.3344	46.61	-27.83	18.78	43.50	-24.72	QP	Р
4	174.4240	43.27	-27.56	15.71	43.50	-27.79	QP	Р
5	356.6757	45.33	-24.97	20.36	46.00	-25.64	QP	Р
6 *	542.3224	50.96	-21.58	29.38	46.00	-16.62	QP	Р





TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	503.8220	42.43	-21.18	21.25	46.00	-24.75	QP	Р
2	166.3591	44.15	-27.64	16.51	43.50	-26.99	QP	Р
3	123.4817	43.87	-28.02	15.85	43.50	-27.65	QP	Р
4 *	43.5820	37.74	-20.46	17.28	40.00	-22.72	QP	Р
5	55.9025	32.70	-20.22	12.48	40.00	-27.52	QP	Р
6	89.2762	46.57	-30.00	16.57	43.50	-26.93	QP	Р



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

Test Requirement:	15.205(a), must also cor	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 test	Radiated emissions tests						
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	radiators operating unde 54-72 MHz, 76-88 MHz,	paragraph (g), fundamental em er this section shall not be locate 174-216 MHz or 470-806 MHz. s permitted under other sections	ed in the frequency bands . However, operation within					
Procedure:	ANSI C63.10-2013 sect	ion 6.6.4						
6.8.1 E.U.T. Operation		11-1 C 12-1 C 12-1 C						
Operating Environment:								

Operating Environment:	
Temperature:	25.7 °C
Humidity:	51.7 %
Atmospheric Pressure:	1010 mbar



## 6.8.2 Test Data:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3916.203	77.99	-29.01	48.98	74.00	-25.02	peak	Р
2	6677.109	74.10	-25.22	48.88	74.00	-25.12	peak	Р
3	7532.400	72.97	-24.83	48.14	74.00	-25.86	peak	Р
4 *	11704.758	72.66	-22.70	49.96	74.00	-24.04	peak	Р
5	15421.103	69.62	-21.32	48.30	74.00	-25.70	peak	Р
6	17782.809	66.51	-16.62	49.89	74.00	-24.11	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2954.447	73.07	-29.59	43.48	74.00	-30.52	peak	Р
2	4457.603	75.34	-28.80	46.54	74.00	-27.46	peak	Р
3	7624.397	76.14	-24.96	51.18	74.00	-22.82	peak	Р
4 *	11892.316	74.03	-22.38	51.65	74.00	-22.35	peak	Р
5	16165.024	70.54	-20.79	49.75	74.00	-24.25	peak	Р
6	17911.771	67.96	-16.77	51.19	74.00	-22.81	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2118.945	68.38	-30.79	37.59	74.00	-36.41	peak	Р
2	3889.131	74.51	-29.01	45.50	74.00	-28.50	peak	Р
3	6729.422	74.38	-25.17	49.21	74.00	-24.79	peak	Р
4	12315.590	71.36	-21.82	49.54	74.00	-24.46	peak	Р
5	14148.432	70.72	-21.12	49.60	74.00	-24.40	peak	Р
6 *	17033.222	68.89	-18.15	50.74	74.00	-23.26	peak	Р

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

TM1 / Polarization: Vertical / 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
1	3916.203	77.49	-29.01	48.48	74.00	-25.52	peak	Р
2	4430.628	76.25	-28.82	47.43	74.00	-26.57	peak	Р
3	7704.146	75.62	-25.09	50.53	74.00	-23.47	peak	Р
4	10970.952	71.73	-23.51	48.22	74.00	-25.78	peak	Р
5	12872.441	72.59	-21.41	51.18	74.00	-22.82	peak	Р
6 *	17911.771	68.46	-16.77	51.69	74.00	-22.31	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	3328.077	80.31	-29.21	51.10	74.00	-22.90	peak	Р
2	6918.761	74.60	-25.00	49.60	74.00	-24.40	peak	Р
3	9713.983	72.34	-23.67	48.67	74.00	-25.33	peak	Р
4	11550.165	70.72	-22.98	47.74	74.00	-26.26	peak	Р
5	14317.095	70.24	-21.16	49.08	74.00	-24.92	peak	Р
6	17033.222	66.89	-18.15	48.74	74.00	-25.26	peak	Р

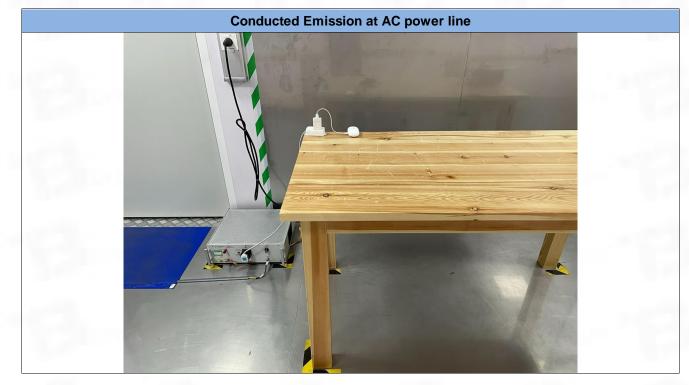
## TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

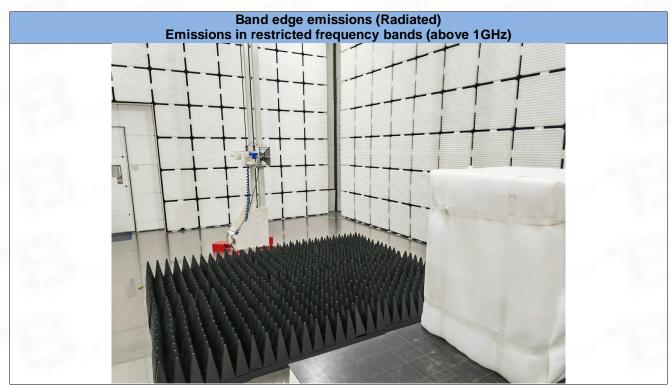
#### TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3172.166	71.53	-29.36	42.17	74.00	-31.83	peak	Р
2	6729.422	72.38	-25.17	47.21	74.00	-26.79	peak	Р
3	8726.232	73.56	-24.87	48.69	74.00	-25.31	peak	Р
4	9591.227	76.06	-23.40	52.66	74.00	-21.34	peak	Р
5 *	15768.160	74.55	-21.55	53.00	74.00	-21.00	peak	Р
6	17644.572	68.10	-16.48	51.62	74.00	-22.38	peak	Р



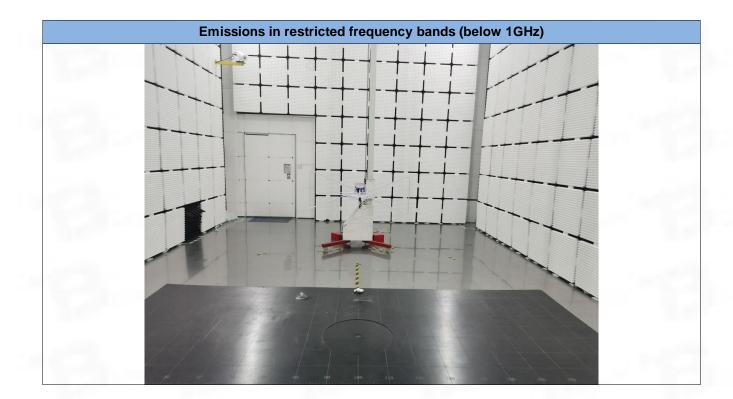
## 7 Test Setup Photos





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## 8 EUT Constructional Details (EUT Photos)

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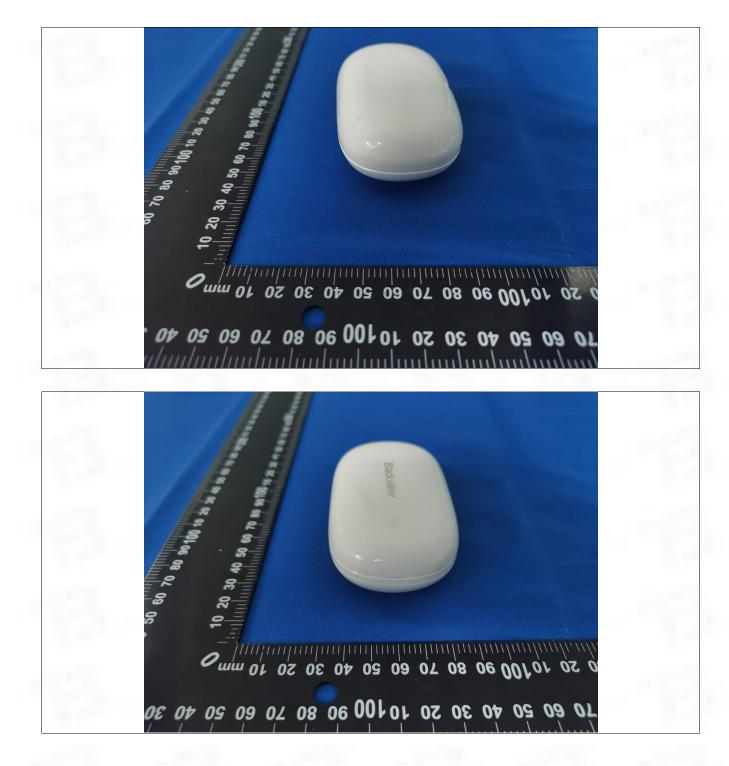




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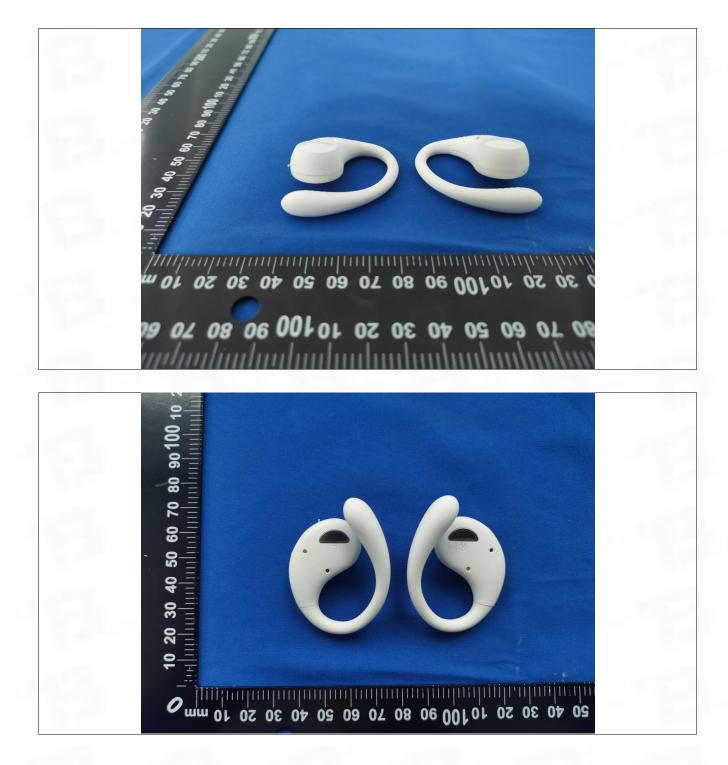
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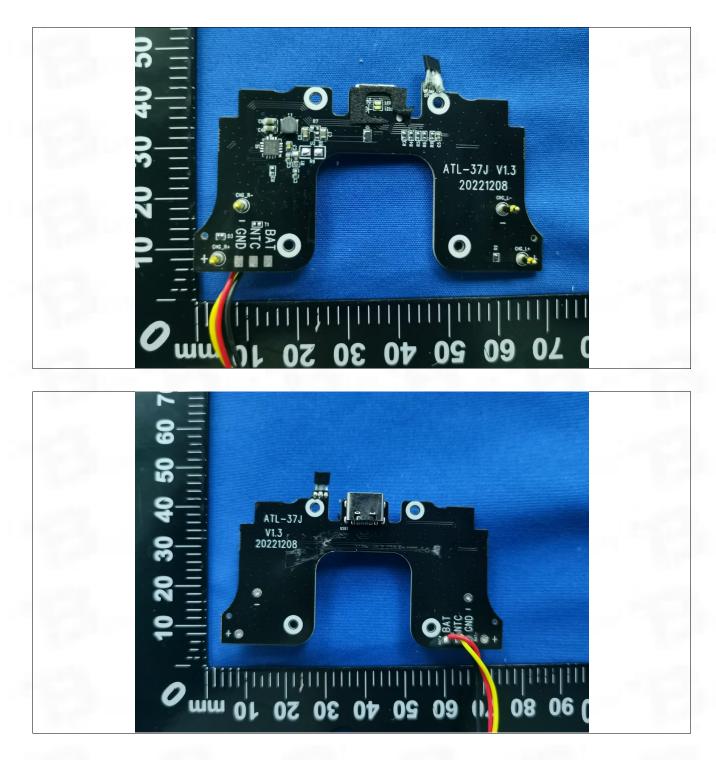
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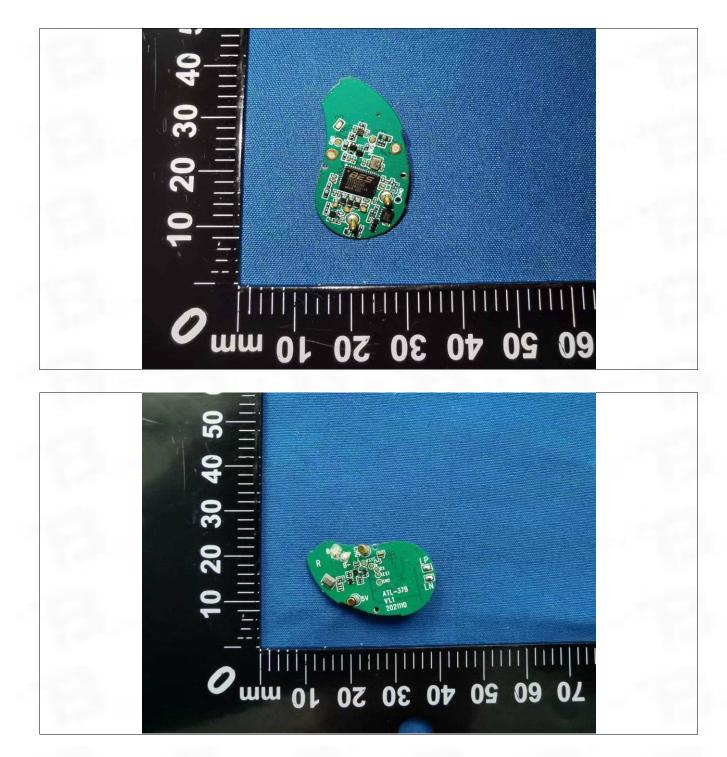




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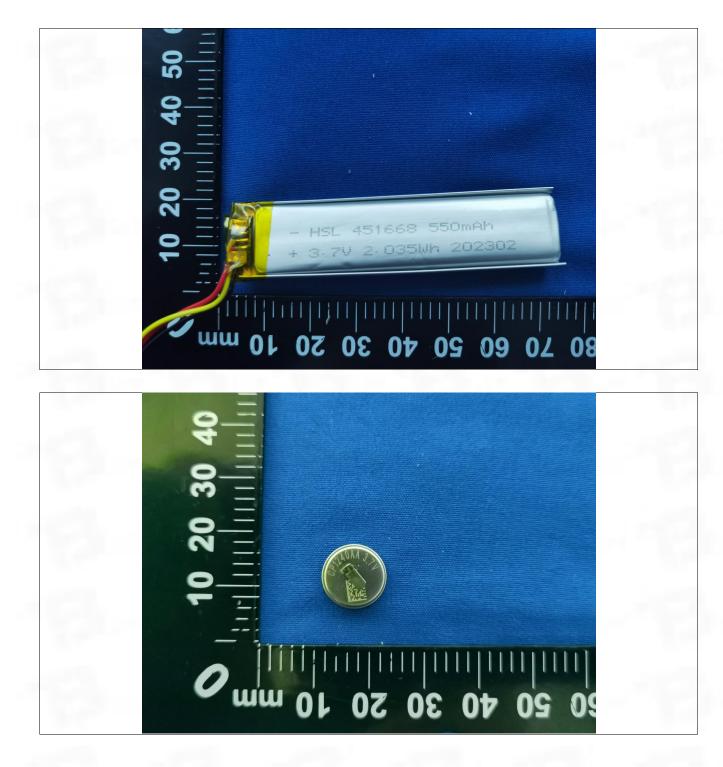




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# Appendix

## 1. Duty Cycle

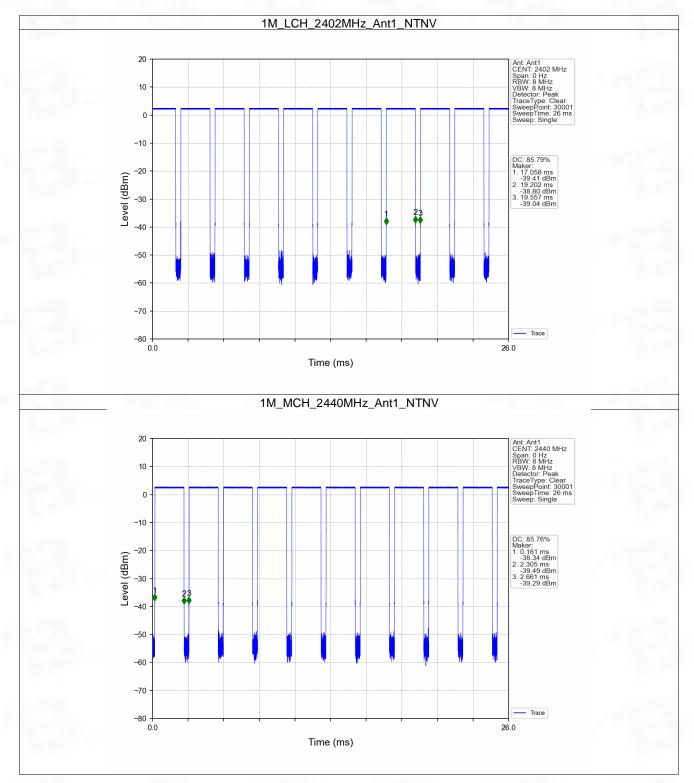
### 1.1 Ant1

#### 1.1.1 Test Result

	Ant1						
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
wode	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		2402	2.144	2.499	85.79	0.67	0.03
1M	SISO	2440	2.144	2.500	85.76	0.67	0.03
		2480	2.145	2.500	85.80	0.67	0.03

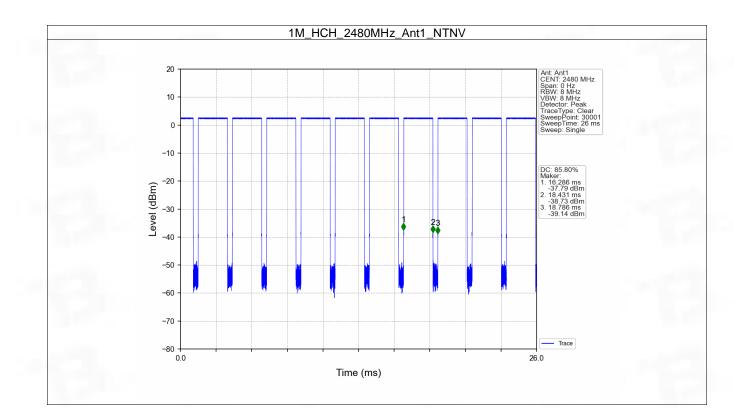


### 1.1.2 Test Graph



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## 2. Bandwidth

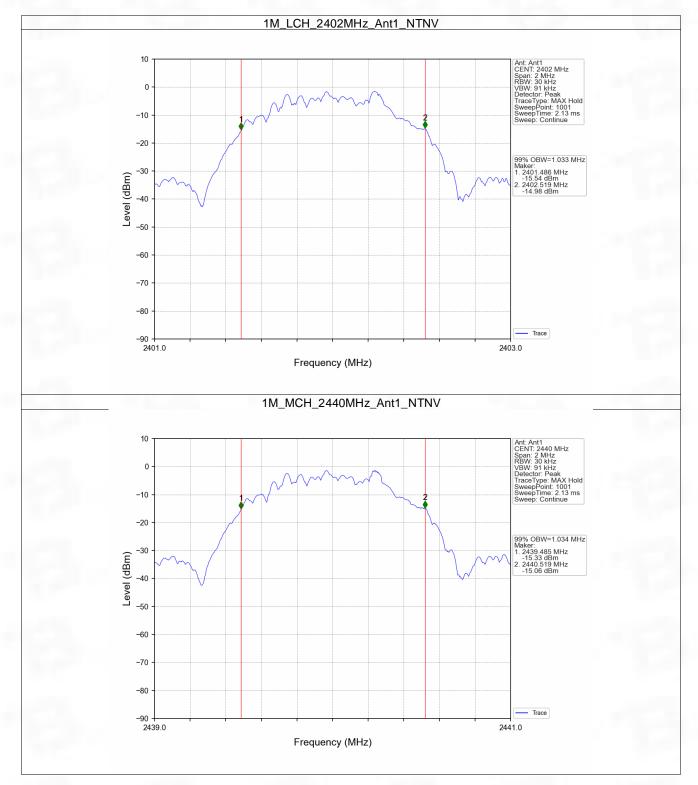
## 2.1 OBW

### 2.1.1 Test Result

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)	Vardiat
wode	Туре	(MHz)	ANT	ANT Result	Verdict
		2402	1	1.033	Pass
1M	SISO	2440	1	1.034	Pass
		2480	1	1.033	Pass

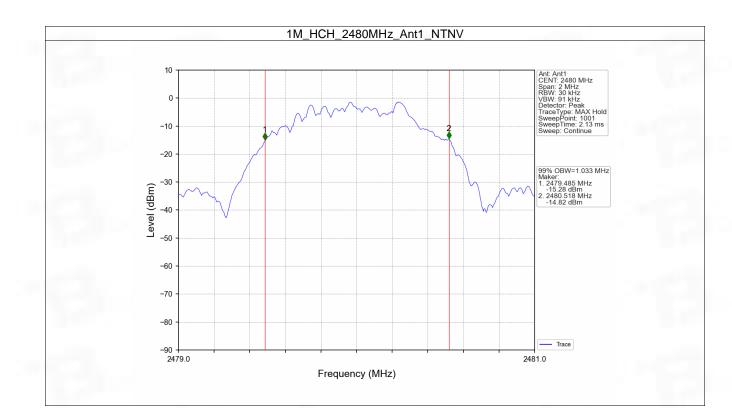


### 2.1.2 Test Graph



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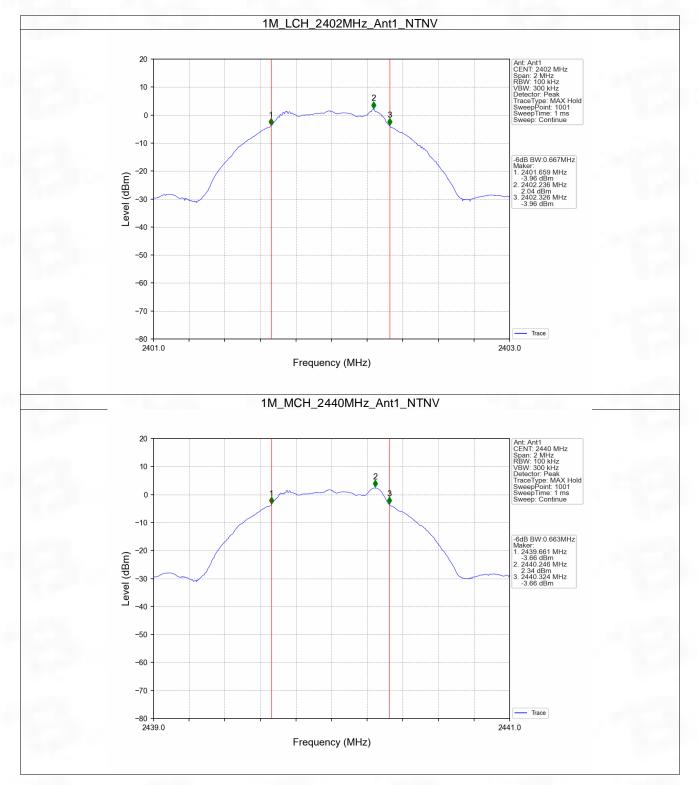
#### 2.2 6dB BW

#### 2.2.1 Test Result

Maa		ΓX	Frequency		6dB Bandw	/idth (MHz)	Vardiat
Mode	Ty	Туре	(MHz)	ANT	Result	Limit	Verdict
			2402	1	0.667	>=0.5	Pass
1M	SI SI	SISO	2440	1	0.663	>=0.5	Pass
			2480	1	0.664	>=0.5	Pass

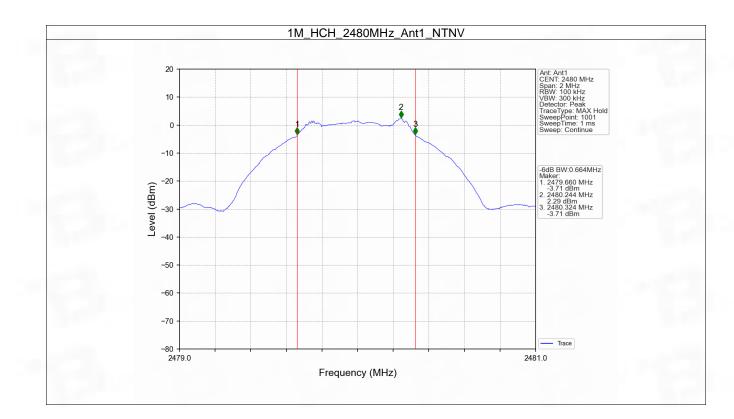


### 2.2.2 Test Graph



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## 3. Maximum Conducted Output Power

### 3.1 Power

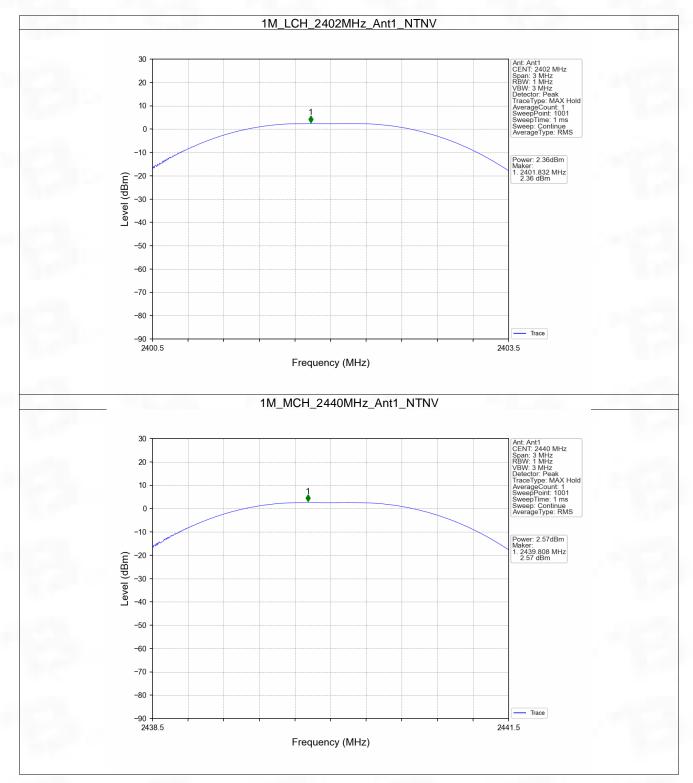
#### 3.1.1 Test Result

Mada	TX	Frequency	Maximum Peak Conduc	Verdict		
Mode Type		(MHz)	ANT1	Limit	verdict	
		2402	2.36	<=30	Pass	
1M	SISO	2440	2.57	<=30	Pass	
		2480	2.52	<=30	Pass	

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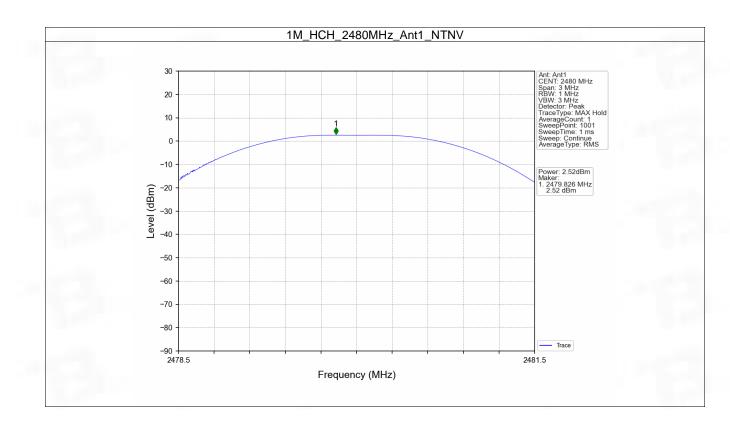


### 3.1.2 Test Graph



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## 4. Maximum Power Spectral Density

### 4.1 PSD

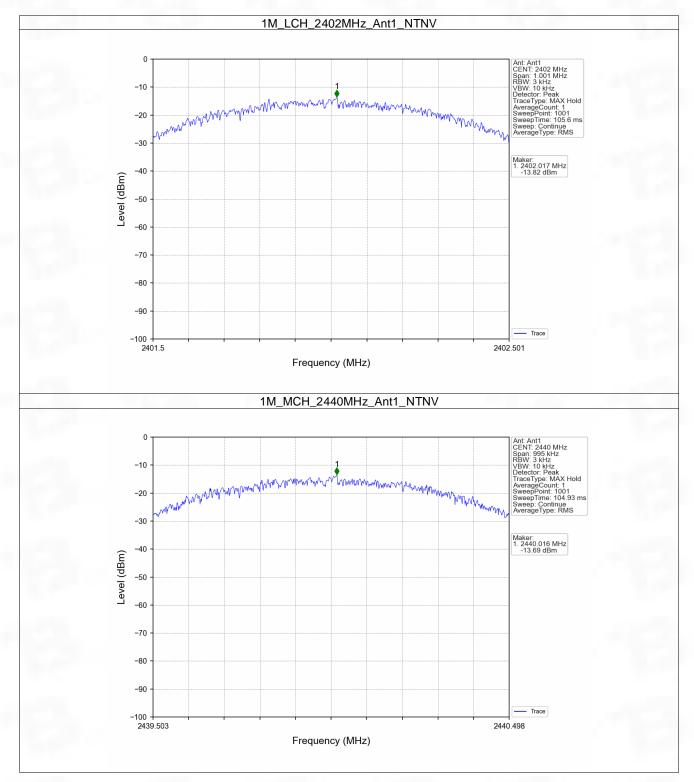
### 4.1.1 Test Result

Mada	TX	Frequency	Maximum PS	SD (dBm/3kHz)	Vardiat
Mode	Туре	(MHz)	ANT1	Limit	Verdict
1M		2402	-13.82	<=8	Pass
	SISO	2440	-13.69	<=8	Pass
		2480	-13.72	<=8	Pass

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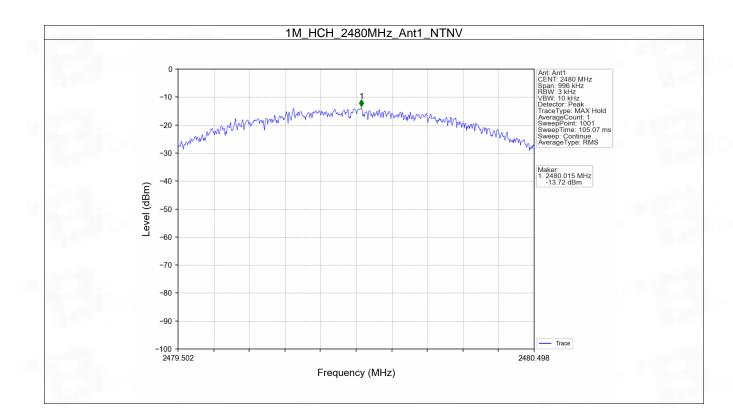


### 4.1.2 Test Graph



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## 5. Unwanted Emissions In Non-restricted Frequency Bands

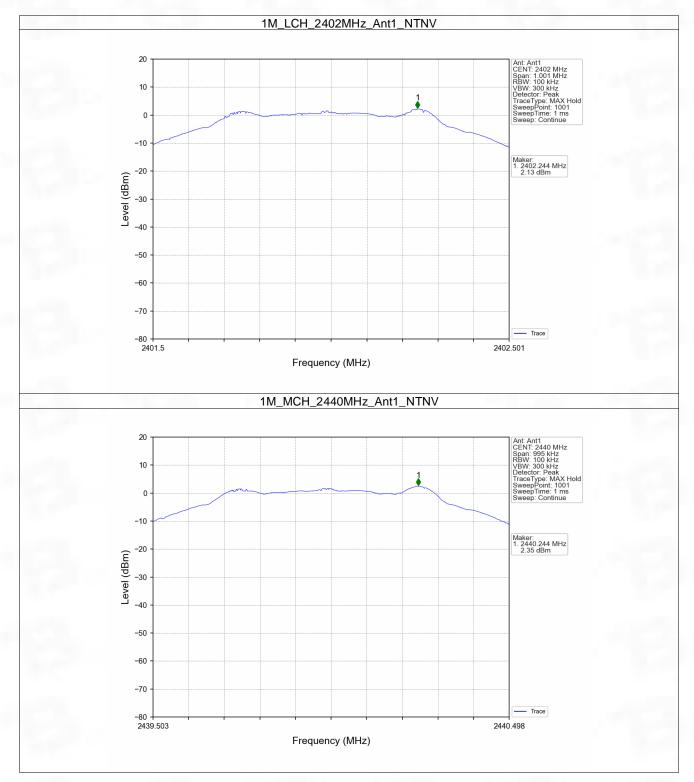
### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2402	1	2.13
1M		2440	1	2.35
		2480	1	2.28
Note1: Refer to FC	C Part 15.247 (d) and	d ANSI C63.10-2013, the	channel contains the	maximum PSD level was used to
establish the refere	ence level.			

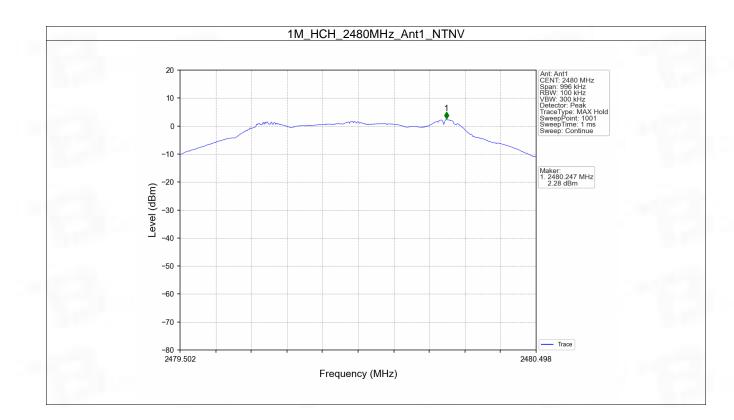


### 5.1.2 Test Graph



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#### 5.2 CSE

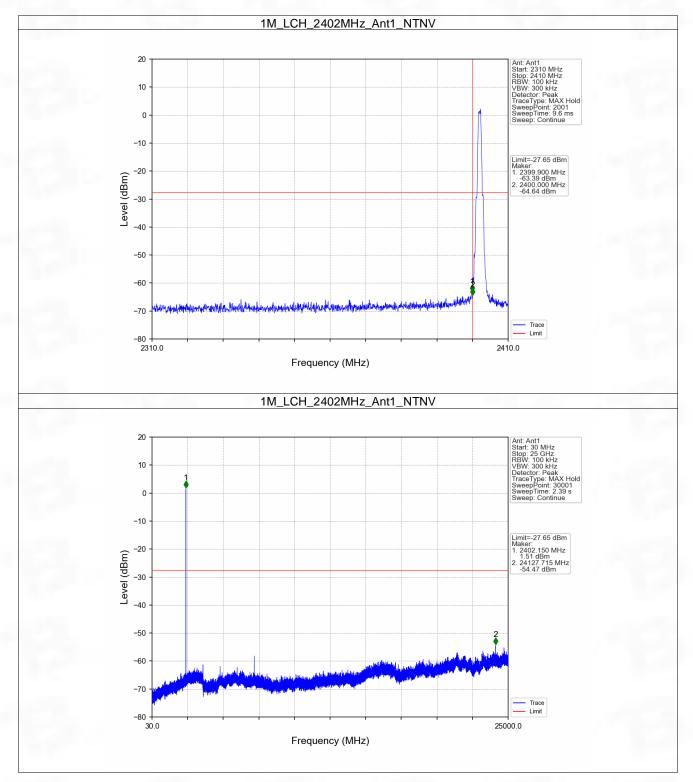
#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M		2402	1	2.35	-27.65	Pass
	SISO	2440	1	2.35	-17.65	Pass
		2480	1	2.35	-17.65	Pass

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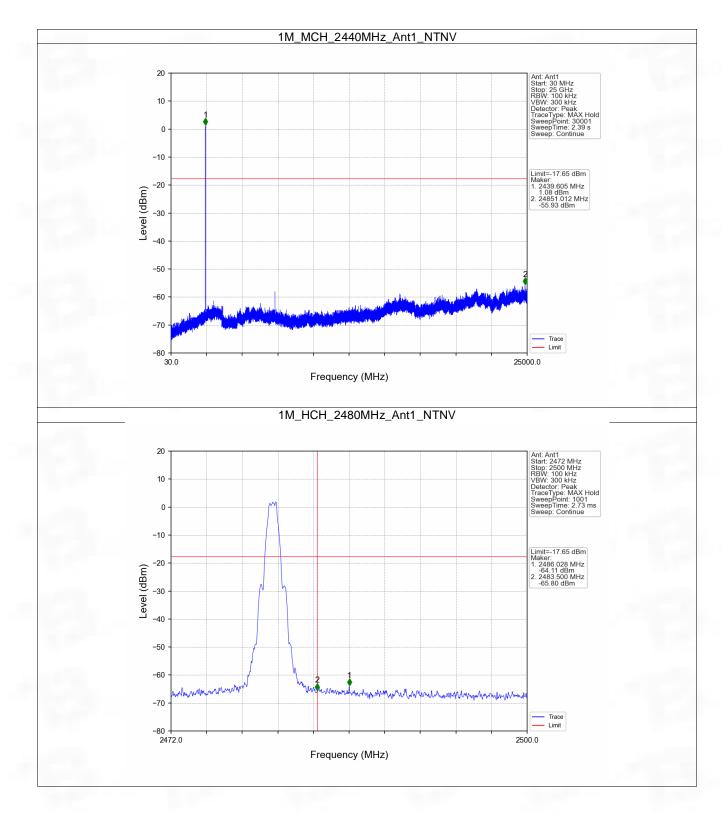


### 5.2.2 Test Graph



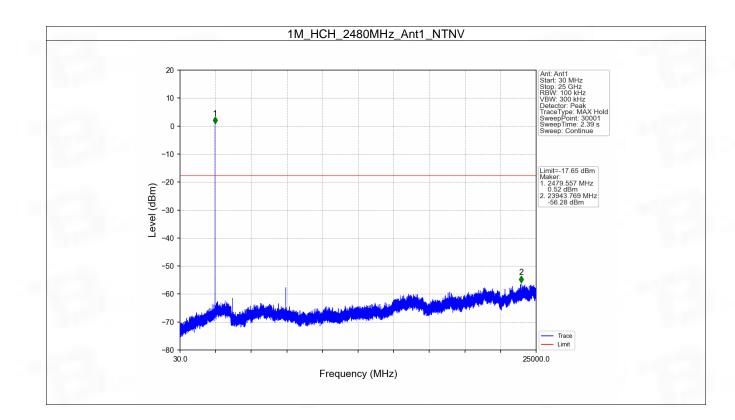
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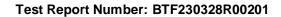
## 6. Form731

## 6.1 Form731

### 6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0018	2.57

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