

RF Test Report

For

Applicant Name: Shenzhen Yizhita Technology Co., Ltd

4219, 4th Floor, Phase I, Huiheng Building, No. 138 Gaoxin South 7th

Address: Road, Gaoxin Community, Yuehai Street, Nanshan District,

Shenzhen

EUT Name: ATK BLAZING SKY Z1 lightweight wireless mouse

Brand Name: ATK

Model Number: ATK Z1 PRO MAX

Series Model Number: ATK Z1 PRO

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

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

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF240707R00201 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: 2BE9P-ATKZ1PROMAX

Date of sample receipt: 2024-07-07

Test Date: 2024-07-08 to 2024-07-16

Date of Issue: 2024-07-17

Prepared By:

Chris Liu / Poject Engineer

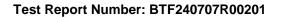
Date: 2024-07-17

Approved By:

Ryan.CJ / EMC Manager

2024-07-04 2024-07-17

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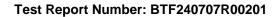


Revision History			
Version	Issue Date	Revisions Content	
R_V0	2024-07-17	Original	
Note: Once the	revision has been made, then pre	vious versions reports are invalid.	



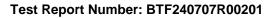
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1 Introduction

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 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: Shenzhen Yizhita Technology Co., Ltd	
Address:	4219, 4th Floor, Phase I, Huiheng Building, No. 138 Gaoxin South 7th Road, Gaoxin Community, Yuehai Street, Nanshan District, Shenzhen

2.2 Manufacturer Information

Company Name: Dongguan Dianxuntong Electronics Technology Co., Ltd.		
Room 302, Building 1, No. 6 Wende Street, Xiabian, Chang'an Town, Dongguan City, Guangdong Province		

2.3 Factory Information

Dongguan Dianxuntong Electronics Technology Co., Ltd.
Room 302, Building 1, No. 6 Wende Street, Xiabian, Chang'an Town, Dongguan City, Guangdong Province

2.4 General Description of Equipment under Test (EUT)

EUT Name:	ATK BLAZING SKY Z1 lightweight wireless mouse	
Test Model Number:	ATK Z1 PRO MAX	
Serial Model Number:	ATK Z1 PRO	
Model difference description	Only the model name is different, everything else is the same	
Hardware version	DM126-NRF52840-0mom V06 20240520	
Software version	N/A	

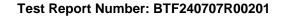
2.5 Technical Information

Power Supply:	DC 5V from USB or DC 3.7V from battery		
Power Adaptor:	N/A		
Operation Frequency:	2403MHz to 2480MHz		
Number of Channels:	16		
Modulation Type:	GFSK		
Antenna Type:	PCB antenna		
Antenna Gain#:	-2.39dBi		
N. I	·		

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.

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2403MHz	7	2452MHz	13	2470MHz
2	2424MHz	8	2458MHz	14	2472MHz
3	2442MHz	9	2462MHz	15	2474MHz
4	2444MHz	10	2466MHz	16	2480MHz
5	2446MHz	11	2468MHz		
6	2450MHz	12	2470MHz		





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

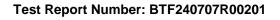
3.2 Uncertainty of Test

Item	Measurement Uncertainty		
Conducted Emission (150 kHz-30 MHz)	±2.64dB		
Occupied Bandwidth	±69kHz		
Transmitter Power, Conducted	±0.87dB		
Conducted Spurious Emissions	±0.95dB		
Radiated Spurious Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB		
Radiated Spurious Emissions (30M - 1GHz)	±4.12dB		

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	47 CFR 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 15.215(c)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass





Test Configuration

Test Equipment List

Conducted Emission at AC power line								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2023-11-16	2024-11-15			
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2023-11-16	2024-11-15			
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15			
LISN	AFJ	LS16/110VAC	16010020076	2023-11-16	2024-11-15			
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2023-11-16	2024-11-15			

Occupied Bandwidth

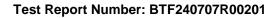
Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

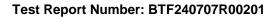
Dwell Time

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	/	2023-11-16	2024-11-15				
RF Sensor Unit	Techy	TR1029-2	/	2023-11-16	2024-11-15				
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2023-11-16	2024-11-15				
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2023-11-16	2024-11-15				
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2023-11-16	2024-11-15				
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2023-11-16	2024-11-15				





Band edge emissions	(Radiated)				
Emissions in frequen	cy bands (below 1				
Emissions in frequent Equipment	cy bands (above 1 Manufacturer	GHz) Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-11-16	2024-11-15
Preamplifier	SCHWARZBECK	BBV9744	00246	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	2023-11-16	2024-11-15
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	2023-11-16	2024-11-15
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-11-16	2024-11-15
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2023-11-16	2024-11-15
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	2023-11-16	2024-11-15
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12



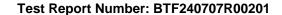


4.2 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description	Use
MacBookPro15	Apple Inc.	DESKTOP-85CPSPJ	/	/	/	\boxtimes

4.3 Test Modes

No.	Test Modes	Description
TM1	TX-GFSK	Keep the EUT in continuously transmitting mode (non-hopping) with
I IVI I	(Non-Hopping)	GFSK modulation.
TM2	TX-Pi/4DQPSK	Keep the EUT in continuously transmitting mode (non-hopping) with
I IVIZ	(Non-Hopping)	Pi/4DQPSK modulation.
TM3 TX-8DPSK		Keep the EUT in continuously transmitting mode (non-hopping) with
TIVIS	(Non-Hopping)	8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK
1 1717	1X-01 SIX (Hopping)	modulation,.
TM5	TX-Pi/4DQPSK	Keep the EUT in continuously transmitting mode (hopping) with
TIVIO	(Hopping)	Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK
TIVIO	174-001 Six (Hopping)	modulation.





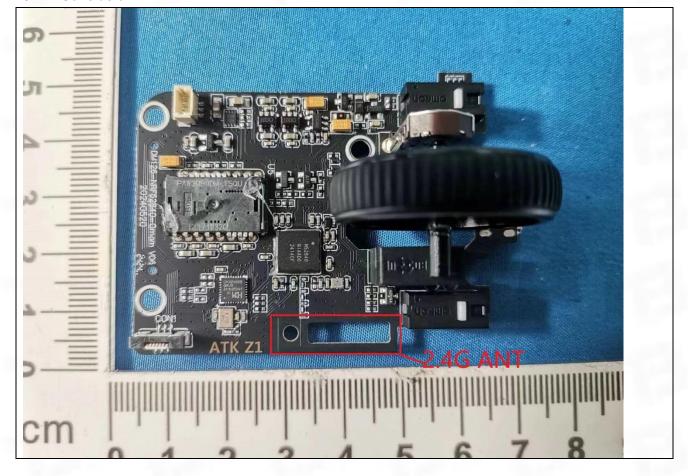
5 Evaluation Results (Evaluation)

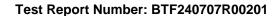
5.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 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 shall be considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:







6 Radio Spectrum Matter Test Results (RF)

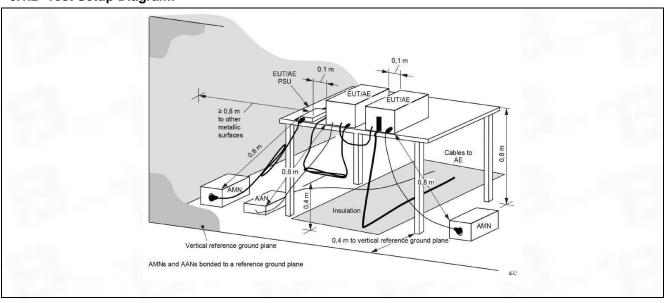
6.1 Conducted Emission at AC power line

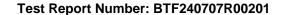
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).							
Test Method:	ANSI C63.10-2013 section 6.2							
	Frequency of emission (MHz)	Conducted limit (dBµV)						
		Quasi-peak	Average					
Test Limit:	0.15-0.5	66 to 56*	56 to 46*					
Test Littit.	0.5-5	56	46					
	5-30	60	50					
	*Decreases with the logarithm of the frequency.							
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line							
Procedure.	conducted emissions from unlicensed wireless devices							

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	45.4 %
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:

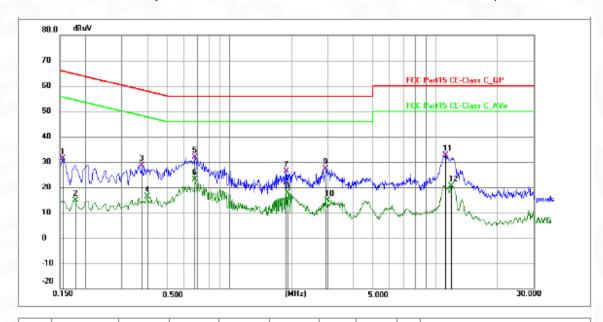




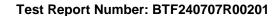


6.1.3 Test Data:

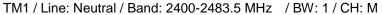
All modes are tested, and only the worst mode GFSK 2M 2480MHz is showed in the report

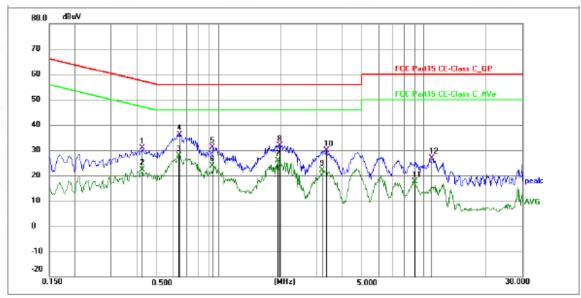


ŀ	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
	1	0.1544	20.84	10.46	31.30	65.76	-34.46	QP	Р	
	2	0.1770	4.25	10.51	14.76	54.63	-39.87	AVG	Р	
	3	0.3750	17.97	10.57	28.54	58.39	-29.85	QP	Р	
	4	0.3975	5.88	10.57	16.45	47.91	-31.46	AVG	Р	
	5	0.6764	21.29	10.67	31.96	56.00	-24.04	QP	Р	
	6 *	0.6809	12.45	10.67	23.12	46.00	-22.88	AVG	Р	
	7	1.8960	15.64	10.68	26.32	56.00	-29.68	QP	Р	
	8	1.9185	7.20	10.68	17.88	46.00	-28.12	AVG	Р	
	9	2.9355	16.70	10.68	27.38	56.00	-28.62	QP	Р	
	10	3.0030	4.20	10.68	14.88	46.00	-31.12	AVG	Р	
	11	11.2470	21.73	10.86	32.59	60.00	-27.41	QP	Р	
	12	11.9940	9.86	10.87	20.73	50.00	-29.27	AVG	Р	

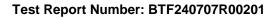








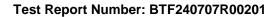
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBu∀)	Margin (dB)	Detector	P/F	Remark
1	0.4243	20.25	10.57	30.82	57.36	-26.54	QP	Р	
2	0.4243	11.82	10.57	22.39	47.36	-24.97	AVG	Р	
3 *	0.6401	17.11	10.65	27.76	46.00	-18.24	AVG	Р	
4	0.6450	25.57	10.65	36.22	56.00	-19.78	QP	Р	
5	0.9375	20.47	10.67	31.14	56.00	-24.86	QP	Р	
6	0.9375	13.10	10.67	23.77	46.00	-22.23	AVG	Р	
7	1.9455	15.14	10.68	25.82	46.00	-20.18	AVG	Р	
8	1.9860	21.18	10.68	31.86	56.00	-24.14	QP	Р	
9	3.1964	11.39	10.66	22.05	46.00	-23.95	AVG	Р	
10	3.3494	19.30	10.64	29.94	56.00	-26.06	QP	Р	
11	8.9970	6.68	10.83	17.51	50.00	-32.49	AVG	Р	
12	10.9409	16.06	10.84	26.90	60.00	-33.10	QP	Р	





6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the
Test Method:	procedure in 6.9.2.
	KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
	a) The spectrum analyzer center frequency is set to the nominal EUT channel
	center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of
	the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
	d) Steps a) through c) might require iteration to adjust within the specified tolerances.
	e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the
	reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum
Procedure:	analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of
	the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from
	step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is
	below this "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down
	amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly
	labeled. Tabular data may be reported in addition to the plot(s).

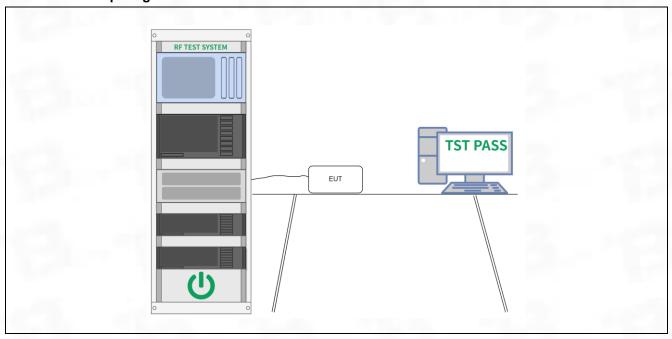




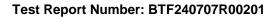
6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.9 °C
Humidity:	49.6 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:





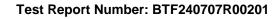
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)		
Test Method:	ANSI C63.10-2013, section 7.8.5		
rest Method.	KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channel and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.		
Procedure:	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.		

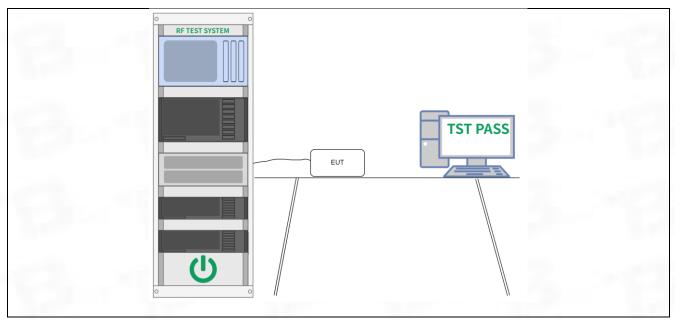
6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.9 °C
Humidity:	49.6 %
Atmospheric Pressure:	1010 mbar

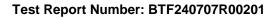
6.3.2 Test Setup Diagram:







6.3.3 Test Data:





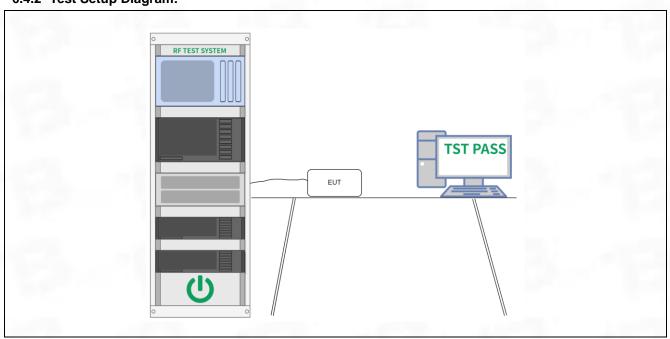
6.4 Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Method:	ANSI C63.10-2013, section 7.8.2
Test Wethod:	KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

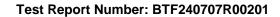
6.4.1 E.U.T. Operation:

<u> </u>	
Operating Environment:	
Temperature:	22.9 °C
Humidity:	49.6 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:





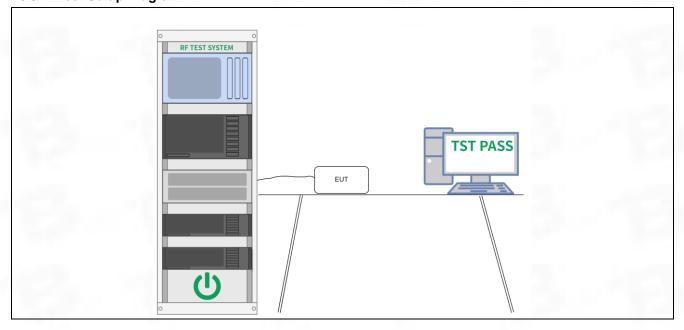
6.5 Number of Hopping Frequencies

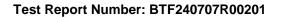
Test Requirement:	47 CFR 15.247(a)(1)(iii)			
Test Method:	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02			
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483 MHz band shall use at least 15 channels. The average time of occupancy on a channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.			
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.			

6.5.1 E.U.T. Operation:

Operating Environment:		
Temperature:	22.9 °C	
Humidity:	49.6 %	
Atmospheric Pressure:	1010 mbar	

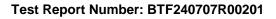
6.5.2 Test Setup Diagram:







6.5.3 Test Data:





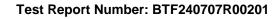
6.6 Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Method:	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation. The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

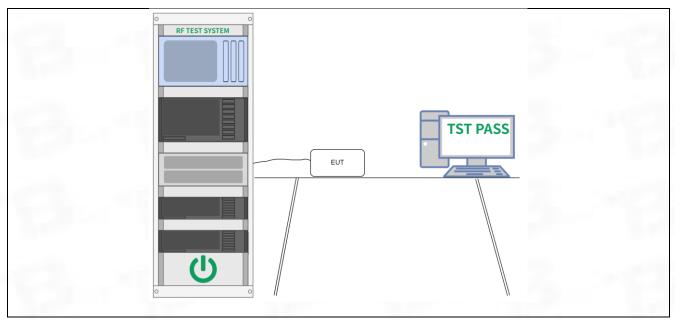
6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.9 °C
Humidity:	49.6 %
Atmospheric Pressure:	1010 mbar

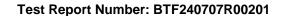
6.6.2 Test Setup Diagram:







6.6.3 Test Data:





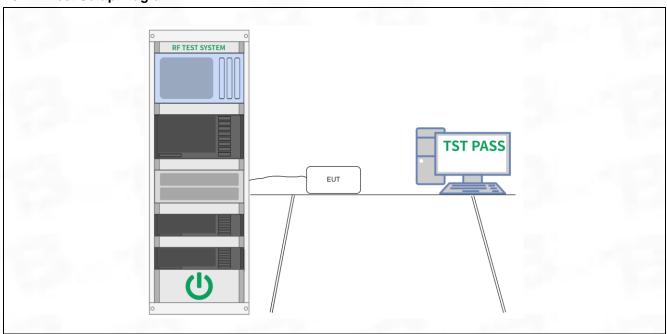
6.7 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205			
Test Method:	ANSI C63.10-2013 section 7.8.8			
rest Method.	KDB 558074 D01 15.247 Meas Guidance v05r02			
Test Limit:	Refer to 47 CFR 15.247(d), 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:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.			

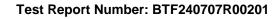
6.7.1 E.U.T. Operation:

•	
Operating Environment:	
Temperature:	22.9 °C
Humidity:	49.6 %
Atmospheric Pressure:	1010 mbar

6.7.2 Test Setup Diagram:



6.7.3 Test Data:





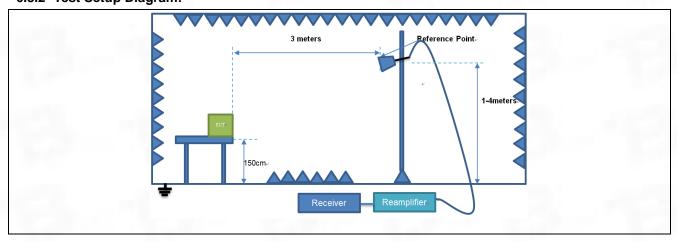
6.8 Band edge emissions (Radiated)

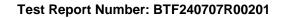
olo Balla dago dilibololio (Madiatoa)			
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions white restricted bands, as defined in § 15.205(a), must also comply we emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	ANSI C63.10-2013 section KDB 558074 D01 15.247	on 6.10	
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
Test Limit:	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands		
		ents employing an average dete	ector.
Procedure:	ANSI C63.10-2013 section 6.10.5.2		

6.8.1 E.U.T. Operation:

Operating Environment:		
Temperature:	23.1 °C	
Humidity:	52.4 %	
Atmospheric Pressure:	1010 mbar	

6.8.2 Test Setup Diagram:







6.8.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.00	89.52	-43.68	45.84	74.00	-28.16	peak
2	2390.00	88.97	-43.64	45.33	74.00	-28.67	peak

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

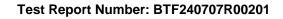
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.00	89.84	-43.68	46.16	74.00	-27.84	peak
2	2390.00	89.29	-43.64	45.65	74.00	-28.35	peak

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	90.61	-43.58	47.03	74.00	-26.97	peak
2	2500.00	90.86	-43.58	47.28	74.00	-26.72	peak

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	
INO.	(MHz)	Level(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector	
1	2483.50	90.93	-43.58	47.35	74.00	-26.65	peak	
2	2500.00	91.18	-43.58	47.60	74.00	-26.40	peak	





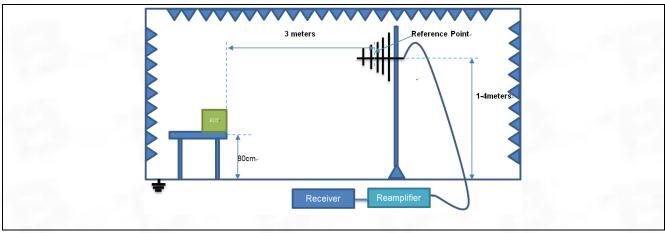
6.9 Emissions in frequency bands (below 1GHz)

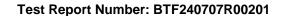
	. , ,						
		, In addition, radiated emissions v					
Test Requirement:	restricted bands, as defined in § 15.205(a), must also comply with the radiated						
		§ 15.209(a)(see § 15.205(c)).`					
Test Method:	ANSI C63.10-2013 section						
Tool Woulde.	KDB 558074 D01 15.247 N	leas Guidance v05r02					
	Frequency (MHz)	Field strength	Measurement				
		(microvolts/meter)	distance				
			(meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
Test Limit:	Above 960	500	3				
1001 2	** Except as provided in pa	ragraph (g), fundamental emissic	ons from intentional				
	radiators operating under the	nis section shall not be located in	the frequency bands				
	54-72 MHz, 76-88 MHz, 17	'4-216 MHz or 470-806 MHz. Hov	vever, operation within				
	these frequency bands is p	ermitted under other sections of t	his part, e.g., §§				
	15.231 and 15.241.						
		e, the tighter limit applies at the ba					
		in the above table are based on r					
	employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz,						
	110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands						
	are based on measuremen	ts employing an average detector	ſ				
Procedure:	ANSI C63.10-2013 section	6.6.4					

6.9.1 E.U.T. Operation:

Operating Environment:						
Temperature:	23.1 °C					
Humidity:	52.4 %					
Atmospheric Pressure:	1010 mbar					

6.9.2 Test Setup Diagram:

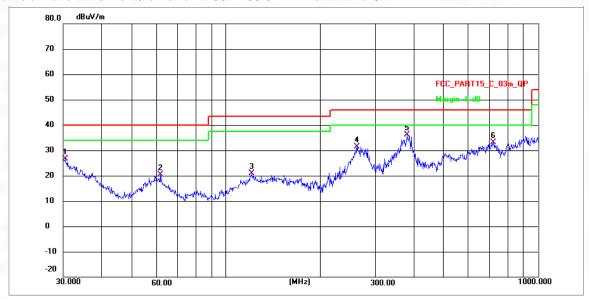




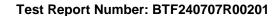


6.9.3 Test Data:

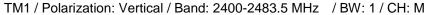
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M

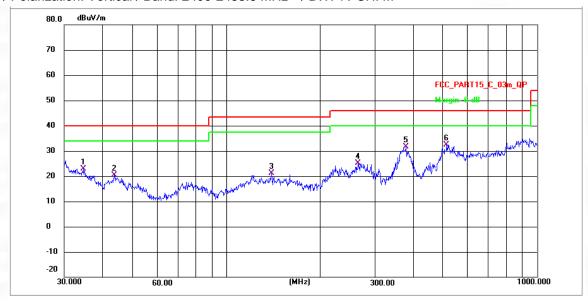


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	30.4771	30.53	-3.79	26.74	40.00	-13.26	QP	Р
2	61.4540	24.65	-4.28	20.37	40.00	-19.63	QP	Р
3	120.9110	43.04	-22.27	20.77	43.50	-22.73	QP	Р
4	261.9750	52.31	-20.95	31.36	46.00	-14.64	QP	Р
5 *	378.5842	56.09	-20.00	36.09	46.00	-9.91	QP	Р
6	721.7258	50.86	-17.67	33.19	46.00	-12.81	QP	Р

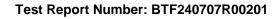








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	34.5172	27.31	-4.31	23.00	40.00	-17.00	QP	Р
2	43.6584	24.76	-4.30	20.46	40.00	-19.54	QP	Р
3	139.8505	43.19	-22.10	21.09	43.50	-22.41	QP	Р
4	265.6757	45.98	-20.92	25.06	46.00	-20.94	QP	Р
5	377.2590	51.59	-20.01	31.58	46.00	-14.42	QP	Р
6 *	513.6331	51.31	-18.90	32.41	46.00	-13.59	QP	Р





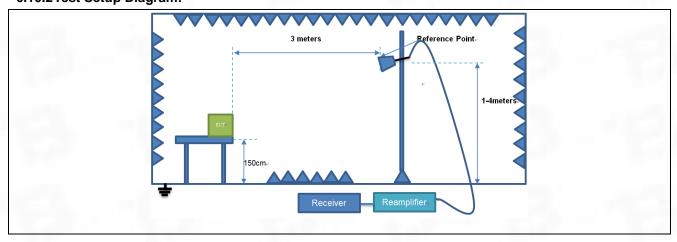
6.10 Emissions in frequency bands (above 1GHz)

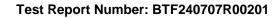
	In addition registed area	alama vuhiah fall in tha wastulata d	handa aa dafinad is C				
Test Beguirement		sions which fall in the restricted					
Test Requirement:		ply with the radiated emission I	imits specified in §				
Test Method:	15.209(a)(see § 15.205(c)). ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02 Frequency (MHz) Field strength (microvolts/meter) 0.009-0.490 0.490-1.705 24000/F(kHz) 30 1.705-30.0 30 30-88 100 ** 88-216 150 ** 3 216-960 200 ** Above 960 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bar 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation we these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges.						
	Frequency (MHz)						
		(microvolts/meter)					
			(meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0		30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
Test Limit:	Above 960	500	3				
Tool Limit.	** Except as provided in p	paragraph (g), fundamental emi	ssions from intentional				
	radiators operating under	this section shall not be located	d in the frequency bands				
	54-72 MHz, 76-88 MHz, 1	74-216 MHz or 470-806 MHz.	However, operation within				
	these frequency bands is	permitted under other sections	of this part, e.g., §§				
	15.231 and 15.241.						
	In the emission table abo	ve, the tighter limit applies at th	e band edges.				
	The emission limits show	n in the above table are based	on measurements				
	employing a CISPR quas	i-peak detector except for the fr	equency bands 9-90 kHz,				
	110–490 kHz and above	1000 MHz. Radiated emission I	imits in these three bands				
	are based on measureme	ents employing an average dete	ector.				
Procedure:	ANSI C63.10-2013 section	n 6.6.4					

6.10.1 E.U.T. Operation:

Operating Environment:						
Temperature:	23.1 °C					
Humidity:	52.4 %					
Atmospheric Pressure:	1010 mbar					

6.10.2Test Setup Diagram:







6.10.3Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
NO.	(MHz)	(dBu∀)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	P/F
1	4806.000	86.81	-48.83	37.98	74.00	-36.02	peak	Р
2	7209.000	88.12	-46.88	41.24	74.00	-32.76	peak	Р
3	9612.000	89.65	-45.51	44.14	74.00	-29.86	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

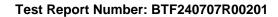
	Frequency	Reading	Factor	Level	Limit	Margin	Detector	D/E
No.	(MHz)	(dBu∀)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	P/F
1	4806.000	87.16	-48.83	38.33	74.00	-35.67	peak	Р
2	7209.000	88.37	-46.88	41.49	74.00	-32.51	peak	Р
3	9612.000	90.33	-45.51	44.82	74.00	-29.18	peak	Р

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M

	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
		(MHz)	(dBu∀)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	1	4884.000	86.25	-48.83	37.42	74.00	-36.58	peak	Р
	2	7326.000	87.56	-46.88	40.68	74.00	-33.32	peak	Р
	3	9768.000	89.09	-45.51	43.58	74.00	-30.42	peak	Р

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4884.000	86.60	-48.83	37.77	74.00	-36.23	peak	Р
2	7326.000	87.81	-46.88	40.93	74.00	-33.07	peak	Р
3	9768.000	89.77	-45.51	44.26	74.00	-29.74	peak	Р



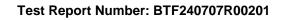


TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H

No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		F/F
1	4960.000	87.27	-48.71	38.56	74.00	-35.44	peak	Р
2	7440.000	88.58	-46.76	41.82	74.00	-32.18	peak	Р
3	9920.000	90.11	-45.39	44.72	74.00	-29.28	peak	Р

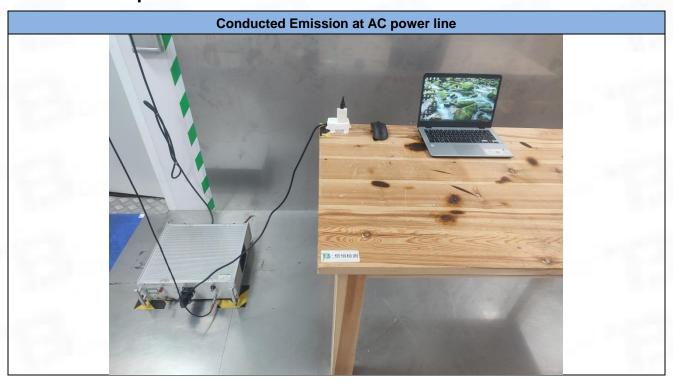
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H

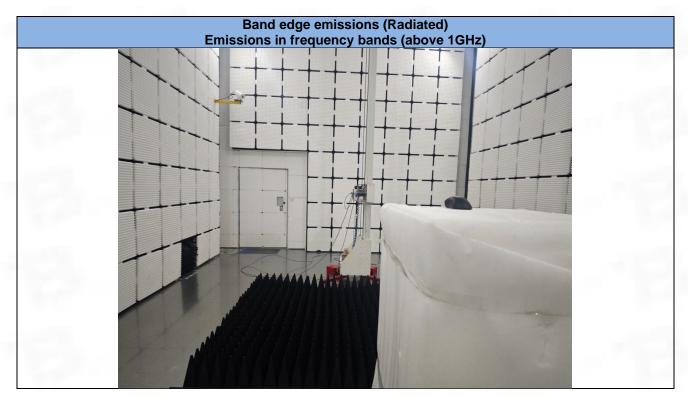
	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	P/F
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		F/F
	1	4960.000	87.56	-48.71	38.85	74.00	-35.15	peak	Р
	2	7440.000	88.77	-46.76	42.01	74.00	-31.99	peak	Р
	3	9920.000	90.73	-45.39	45.34	74.00	-28.66	peak	Р

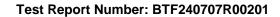




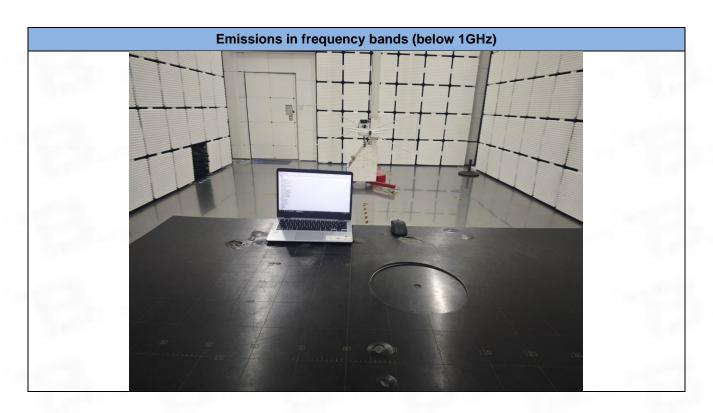
Test Setup Photos







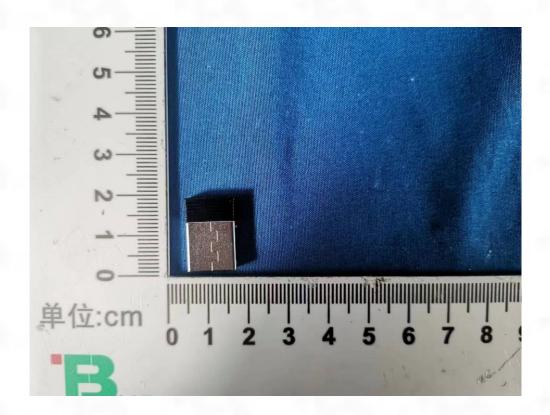




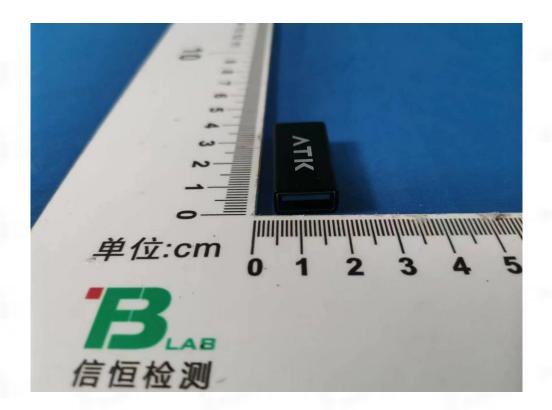


8 EUT Constructional Details (EUT Photos)







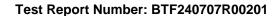


















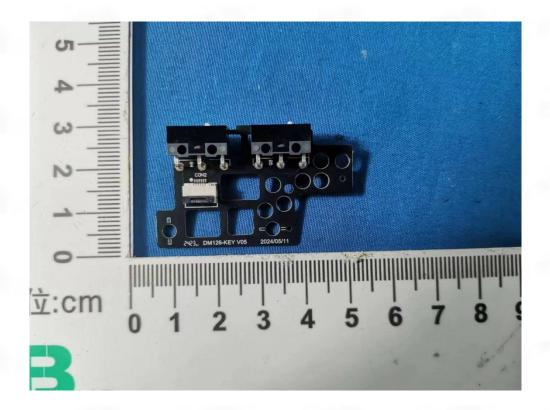


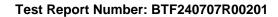




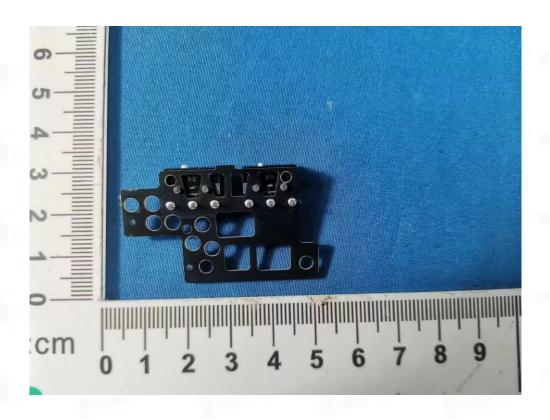


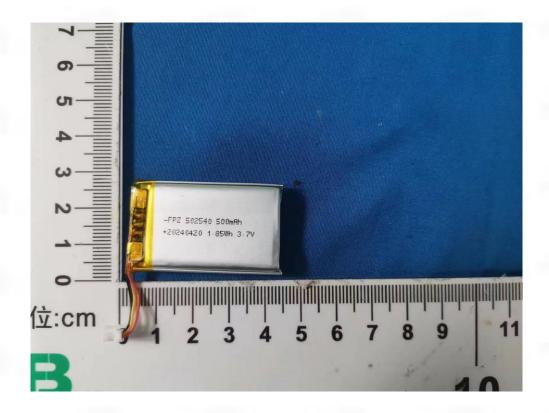




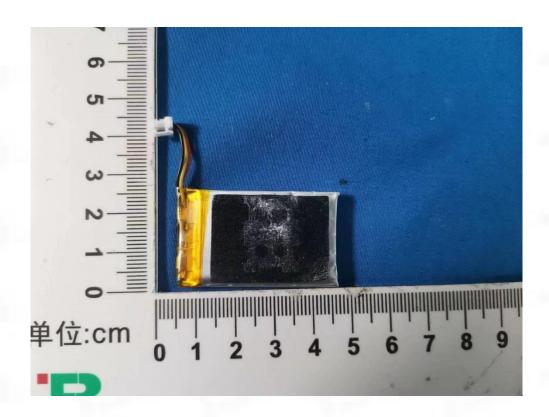


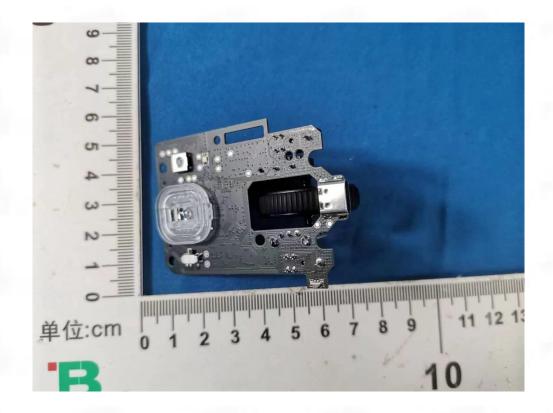


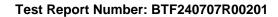




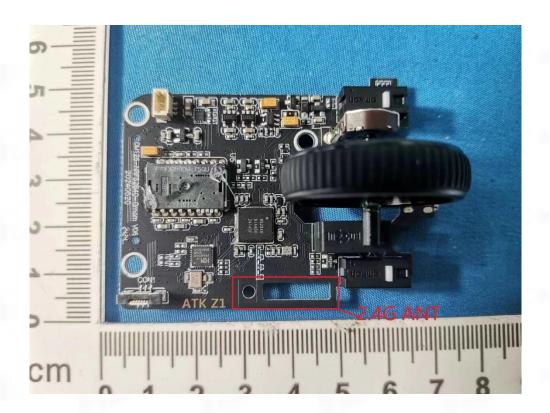


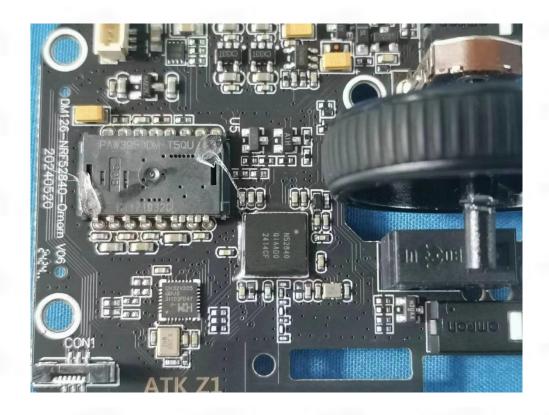
















Appendix

Test Report Number: BTF240707R00201



1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)		Verdict
Mode	Type	(MHz)	AINT	Result	Limit	verdict
		2403	1	1.782	/	Pass
1	SISO	2442	1	1.782	/	Pass
		2480	1	1.791	/	Pass

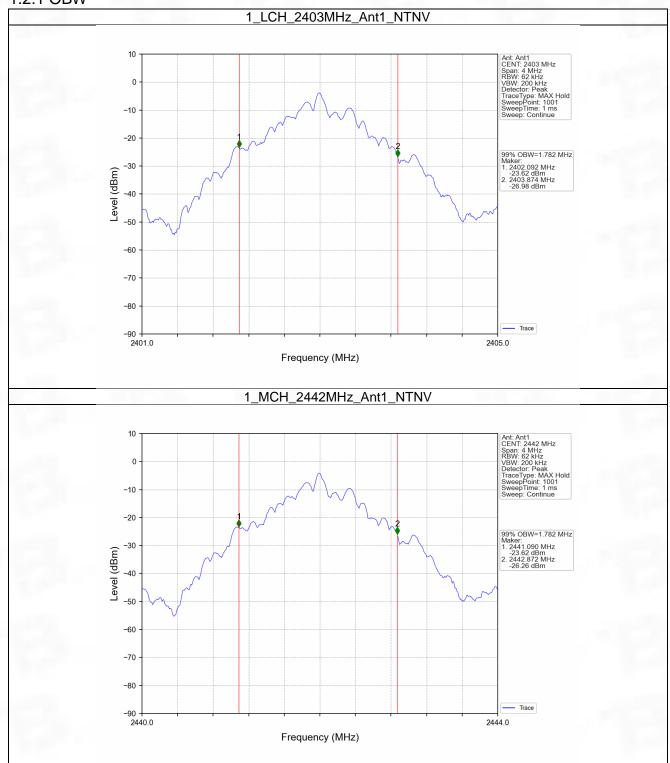
1.1.2 20dB BW

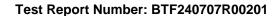
Mode	TX	Frequency	ANT	20dB Bandwidth (MHz)		Verdict
Mode	Туре	(MHz)	AINT	Result	Limit	verdict
		2403	1	1.805	/	Pass
1	SISO	2442	1	1.810	/	Pass
		2480	1	1.802	/	Pass



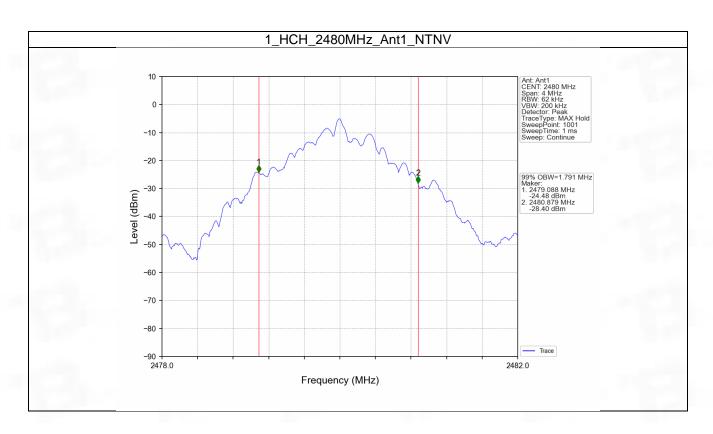


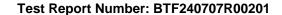
1.2.1 OBW





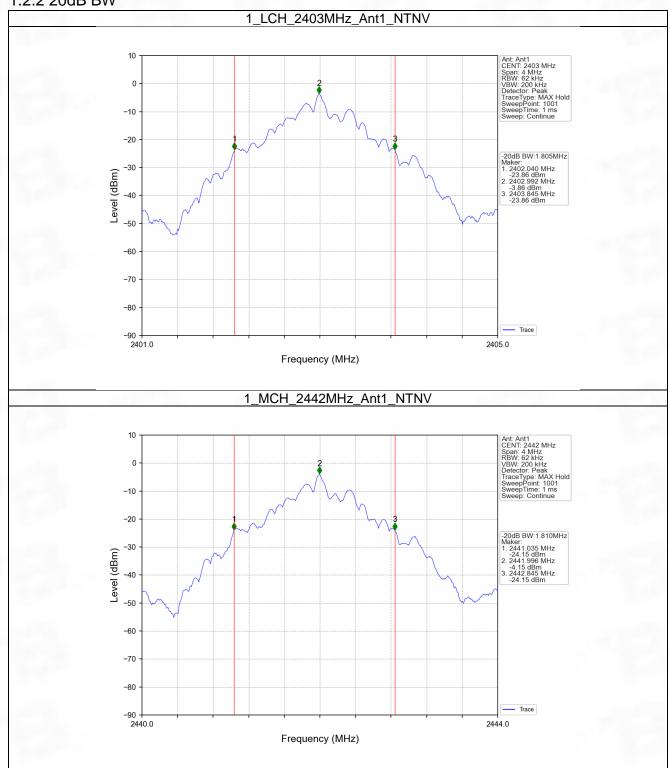


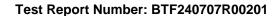




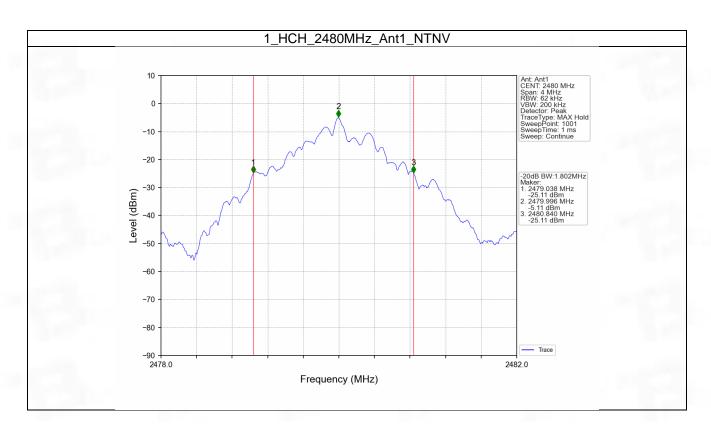


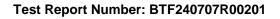
1.2.2 20dB BW













2. Maximum Conducted Output Power

2.1 Test Result

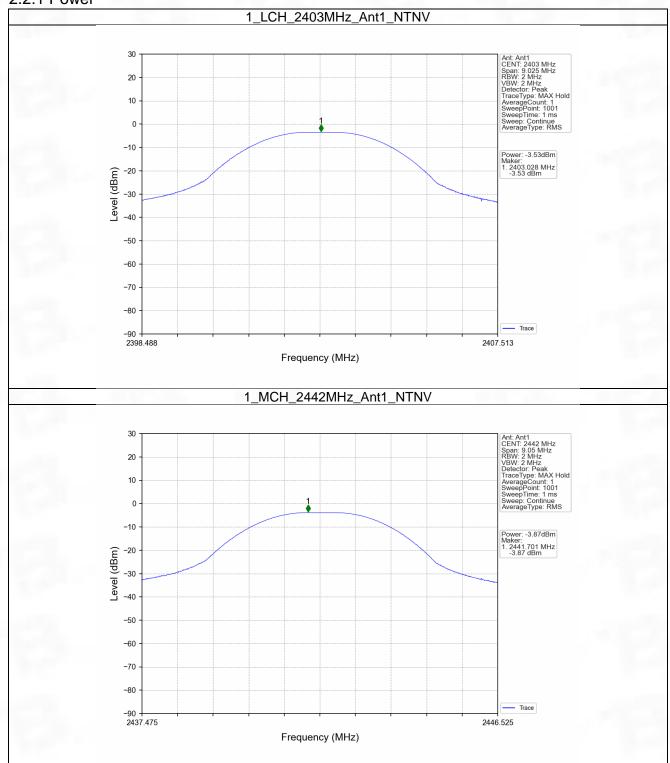
2.1.1 Power

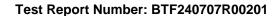
Mode	Mode TX		Maximum Peak Conduc	Maximum Peak Conducted Output Power (dBm)		
Mode	Type	(MHz)	ANT1	Limit	Verdict	
		2403	-3.53	<=20.97	Pass	
1	SISO	2442	-3.87	<=20.97	Pass	
		2480	-4.75	<=20.97	Pass	
Note1: Ante	nna Gain: Ant1	: -2.39dBi;				



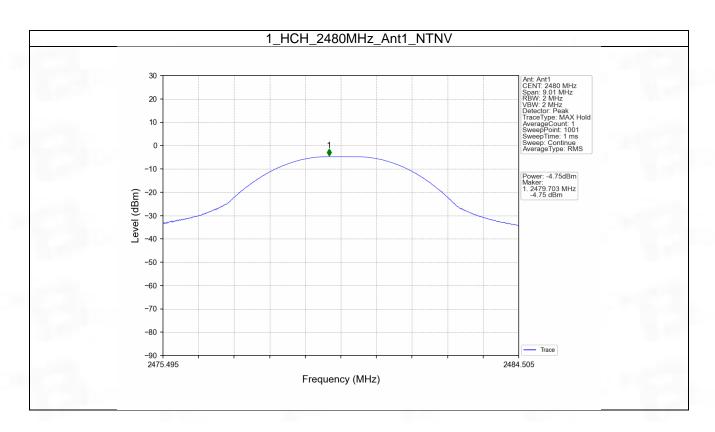


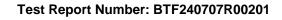
2.2.1 Power











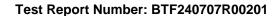


3. Carrier Frequency Separation

3.1 Test Result

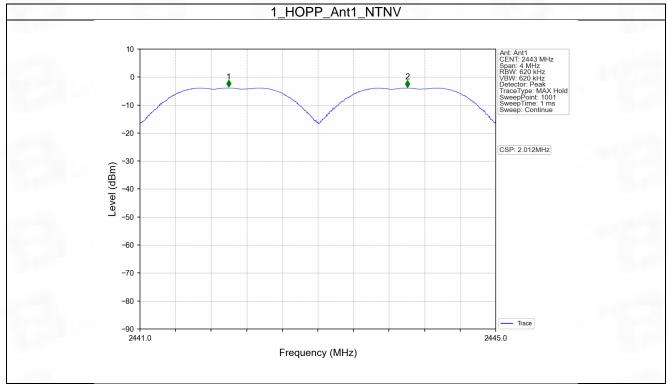
3.1.1 Ant1

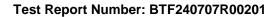
	Ant1							
Mode	TX	Frequency	Channel Separation	20dB Bandwidth	Limit	Verdict		
Mode	Type	(MHz)	(MHz)	(MHz)	(MHz)	verdict		
1	SISO	HOPP	2.012	1.810	>=1.81	Pass		





3.2.1 Ant1





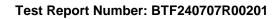


4. Number of Hopping Frequencies

4.1 Test Result

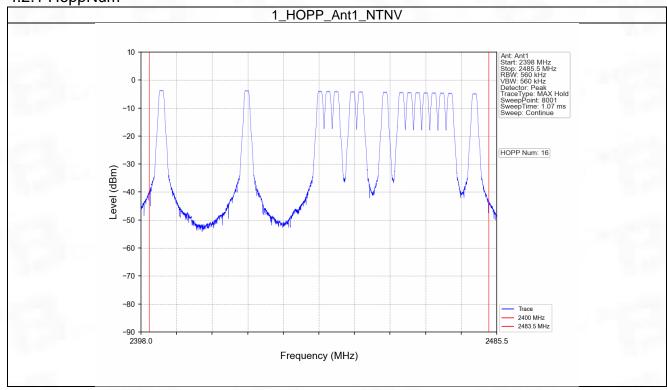
4.1.1 HoppNum

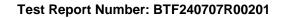
Mode TX		Frequency	Num of Hoppir	Verdict	
Mode	Type	(MHz)	ANT1	Limit	verdict
1	SISO	HOPP	16	>=15	Pass





4.2.1 HoppNum





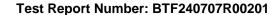


5. Time of Occupancy (Dwell Time)

5.1 Test Result

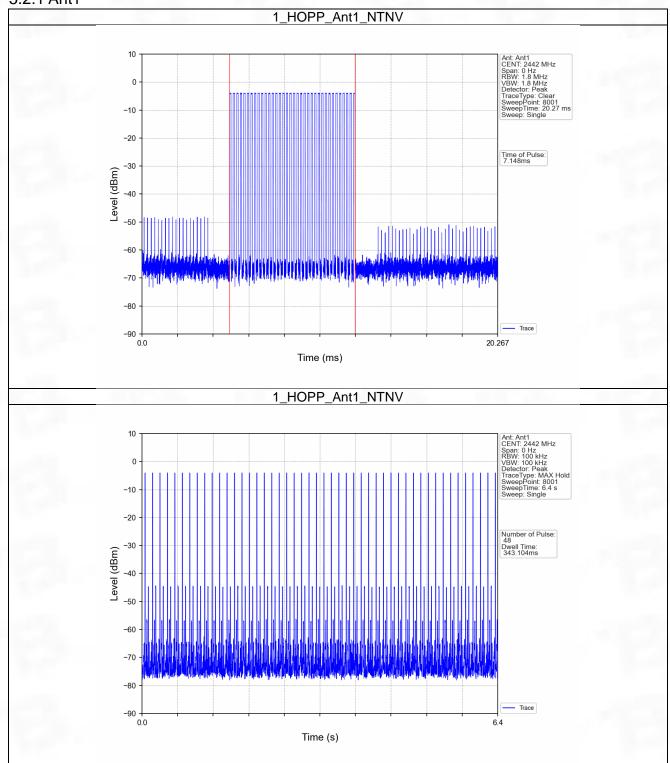
5.1.1 Ant1

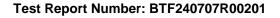
				Ant1				
Mode	TX	Frequency	Duration of	Observation	Num of Pulse in	Dwell	Limit	Verdict
Mode	Type	(MHz)	Single Pulse (ms)	Period (s)	Observation Period	Time (ms)	(ms)	verdict
1	SISO	HOPP	7.148	6.400	48	343.104	<=400	Warning





5.2.1 Ant1







6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

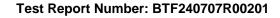
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2403	1	-3.60
1		2442	1	-3.92
		2480	1	-4.81

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.

6.1.2 CSE

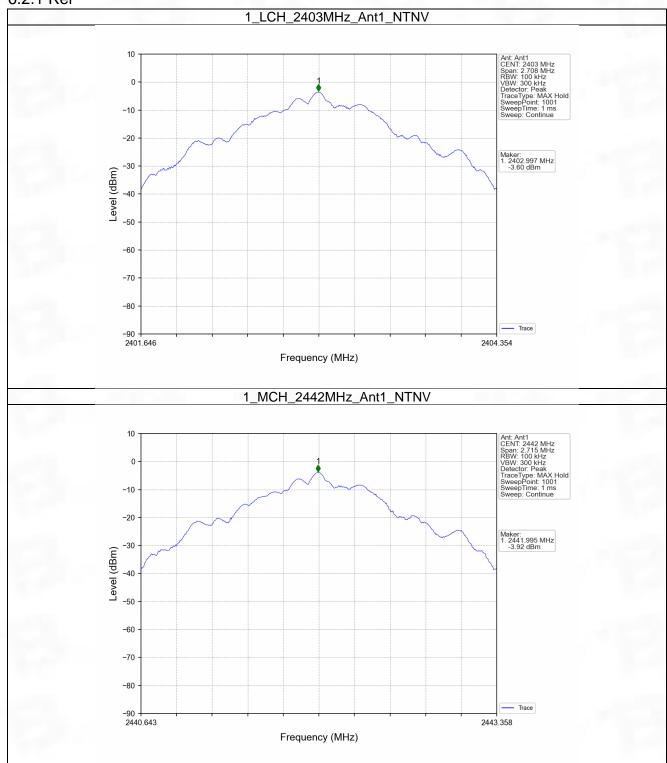
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2403	1	-3.60	-23.60	Pass
		2442	1	-3.60	-23.60	Pass
1	SISO	2480	1	-3.60	-23.60	Pass
		HOPP	1	-3.60	-23.60	Pass
				-3.60	-23.60	Pass

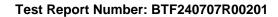
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



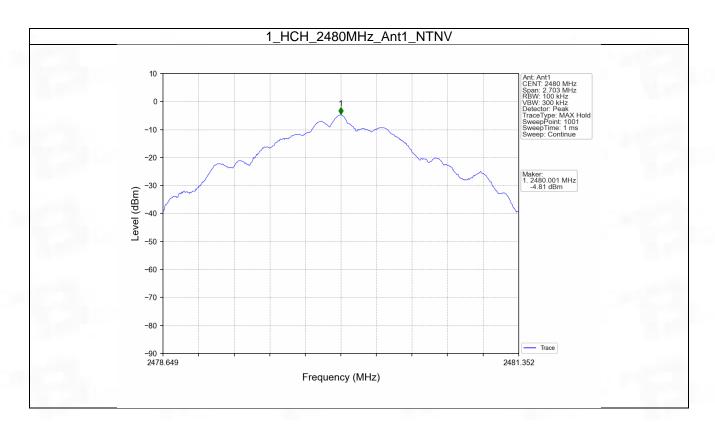


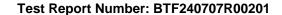
6.2.1 Ref





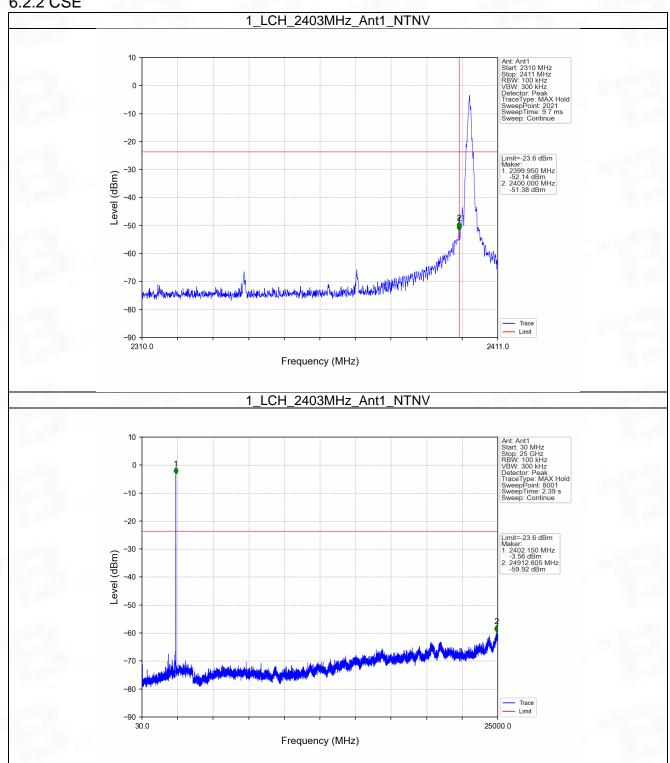


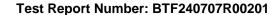




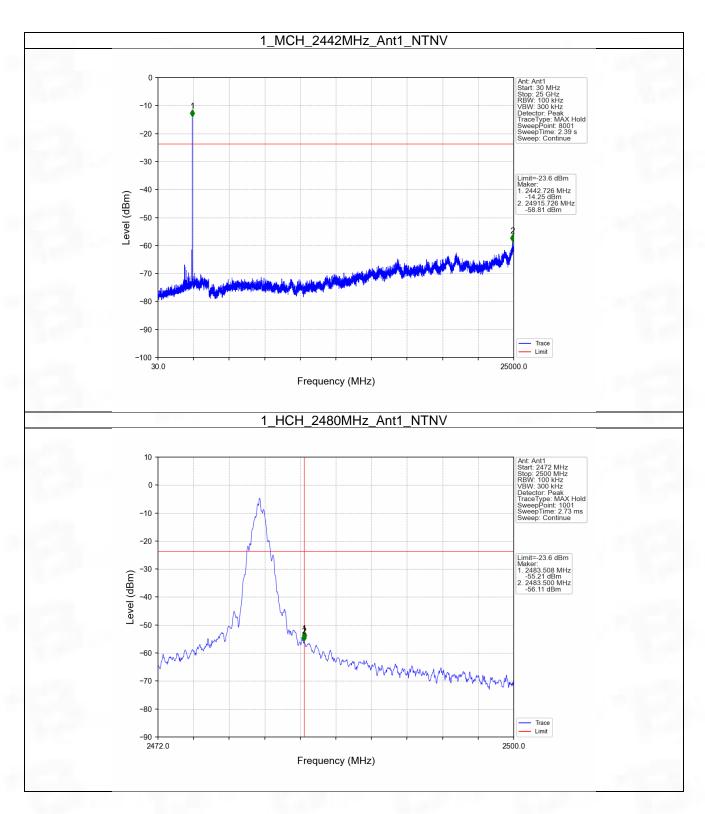


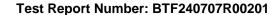
6.2.2 CSE



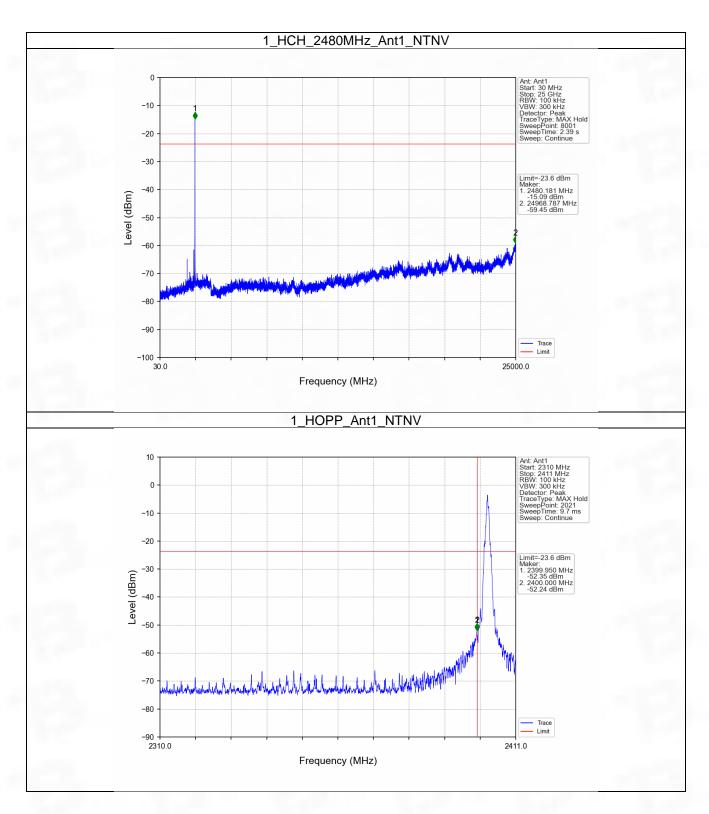


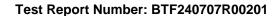




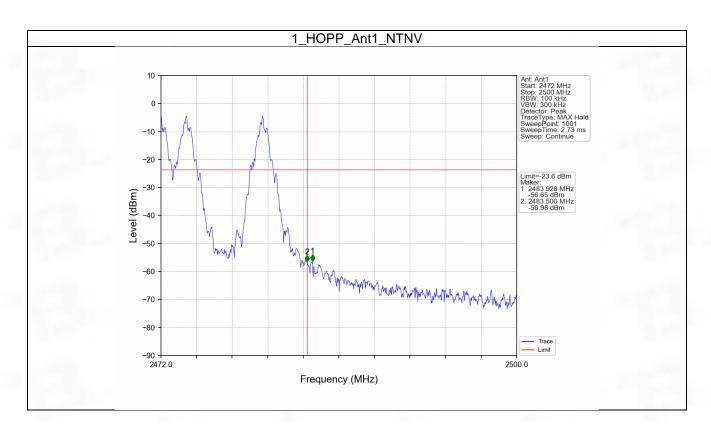


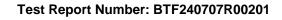












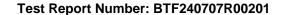


7. Form731

7.1 Test Result

7.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2403	2480	0.0004	-3.53







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www.btf-lab.com

-- END OF REPORT --