

RF Test Report

For

Applicant Name: Cj Global Inc.

Address: 20-21 Wagaraw Road Bldg 30 Fair Lawn, New Jersey, NJ 0740, United

States.

EUT Name: True Wireless Speaker

Brand Name: N/A Model Number: 71567-DI

Series Model Number: Refer to section 2

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: BTF230628R01301 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: 2AND8-BT23SP1

Test Date: 2023-06-19 to 2023-06-21

Date of Issue: 2023-07-03

Prepared By: Elma Kang

Elma. Yang / Project Engineer

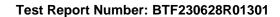
Date: 2023-07-03

Approved By:

Ryan CJ / EMC Manager

Date: 2023-07-03

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





Revision History					
Version	Issue Date	Revisions Content			
R_V0 2023-07-03		Original			
Note: Once the revision has been made, then previous versions reports are invalid.					

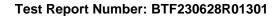
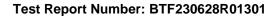




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Introduction

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:	Cj Global Inc.
Address:	20-21 Wagaraw Road Bldg 30 Fair Lawn, New Jersey, NJ 0740, United States.

2.2 Manufacturer Information

Company Name:	Cj Global Inc.
Address:	20-21 Wagaraw Road Bldg 30 Fair Lawn, New Jersey, NJ 0740, United States.

2.3 General Description of Equipment under Test (EUT)

EUT Name: True Wireless Speaker	
Test Model Number:	71567-DI
Series Model Number:	71567-DI,71569-DI
Description of Model name differentiation:	Since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only different on colour.
Hardware Version:	RH-BZ-C001-V2.0
Software Version:	AC6965E
Sample No.:	BTFSN230628E013-1/1

2.4 Technical Information

Power Supply:	from 3.7V 1200mAh Battery and recharged by DC 5V.	
Power Adaptor:		
Operation Frequency:	2402MHz to 2480MHz	
Number of Channels:	79	
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK	
Channel spacing:	1MHz	
Antenna Type:	PCB ANT	
Antenna Gain:	-0.68 dBi	

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.



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 15.215(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)	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

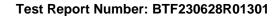
4.1 Test Equipment List

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

Occupied Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RFTest software	/	V1.00	/	/	/		
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23		
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23		
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23		
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	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		

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			

Channel Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/



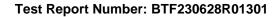


RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., 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

Number of Hopping Frequencies								
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			

Dwell Time								
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			

Emissions in non-restricted frequency bands

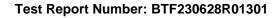




Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
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	/	/	/			
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	/	/	/			
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27			

Emissions in restricted frequency bands (below 1GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23			
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23			



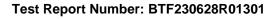


RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
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	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricte	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			
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	/	/	/			



Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27
Log portouro artiornia	OO! !!!!	10220.00	0.020		



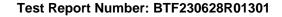


4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	TX-GFSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	TX-Pi/4DQPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation.
TM3	TX-8DPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.





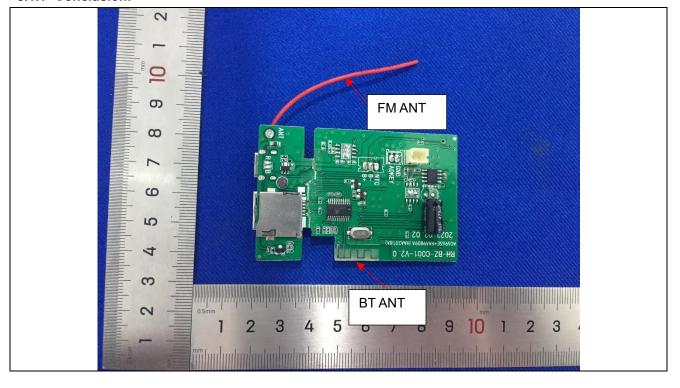
5 Evaluation Results (Evaluation)

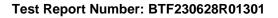
5.1 Antenna requirement

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.

5.1.1 Conclusion:







Radio Spectrum Matter Test Results (RF)

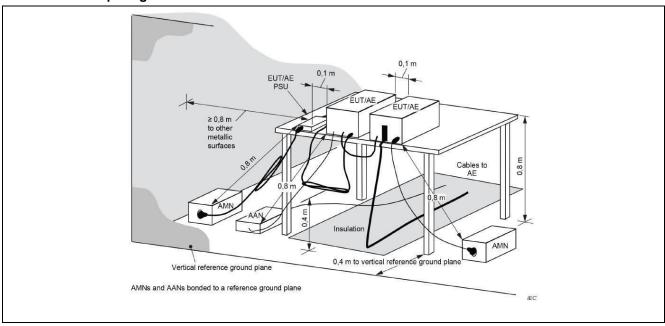
6.1 Conducted Emission at AC power line

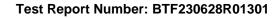
Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu\text{H}/50$ 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)		
		Quasi-peak	Average	
Test Limit:	0.15-0.5	66 to 56*	56 to 46*	
rest Limit.	0.5-5	56	46	
	5-30	60	50	
	*Decreases with the logarithm of th	e frequency.	_	

6.1.1 E.U.T. Operation:

Operating Environment:		
Temperature:	22.4 °C	
Humidity:	52.7 %	
Atmospheric Pressure:	1010 mbar	

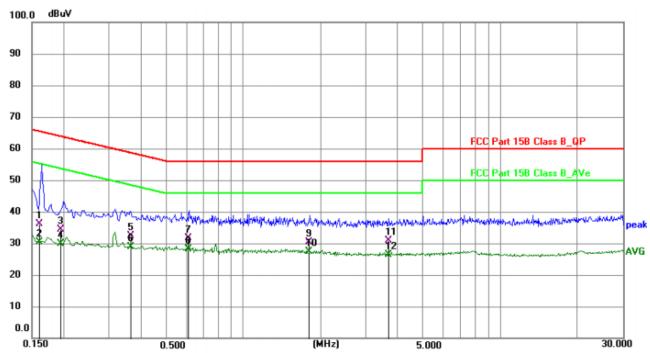
6.1.2 Test Setup Diagram:



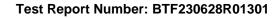




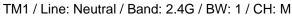
6.1.3 TM1 / Line: Line / Band: 2.4G / BW: 1 / CH: M

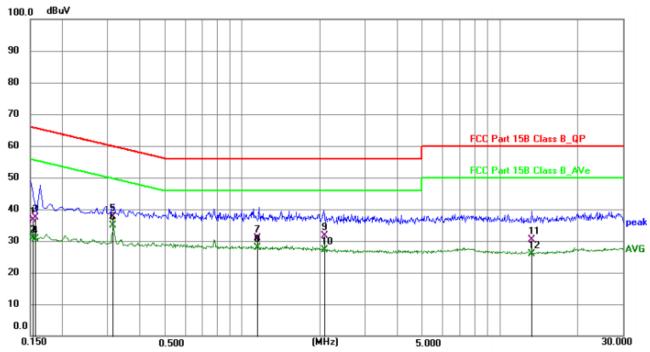


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1611	15.98	20.08	36.06	65.41	-29.35	QP	Р	
2	0.1611	10.19	20.08	30.27	55.41	-25.14	AVG	Р	
3	0.1948	14.21	20.09	34.30	63.83	-29.53	QP	Р	
4	0.1948	9.83	20.09	29.92	53.83	-23.91	AVG	Р	
5	0.3625	12.34	20.13	32.47	58.67	-26.20	QP	Р	
6	0.3625	8.72	20.13	28.85	48.67	-19.82	AVG	Р	
7	0.6091	11.39	20.19	31.58	56.00	-24.42	QP	Р	
8 *	0.6091	8.04	20.19	28.23	46.00	-17.77	AVG	Р	
9	1.8007	10.15	20.35	30.50	56.00	-25.50	QP	Р	
10	1.8007	7.05	20.35	27.40	46.00	-18.60	AVG	Р	
11	3.6810	10.56	20.41	30.97	56.00	-25.03	QP	Р	
12	3.6810	5.98	20.41	26.39	46.00	-19.61	AVG	Р	

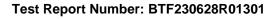








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	16.59	20.08	36.67	65.79	-29.12	QP	Р	
2	0.1539	10.73	20.08	30.81	55.79	-24.98	AVG	Р	
3	0.1568	17.32	20.08	37.40	65.63	-28.23	QP	Р	
4	0.1568	10.63	20.08	30.71	55.63	-24.92	AVG	Р	
5	0.3141	17.41	20.12	37.53	59.86	-22.33	QP	Р	
6 *	0.3141	14.65	20.12	34.77	49.86	-15.09	AVG	Р	
7	1.1487	10.69	20.31	31.00	56.00	-25.00	QP	Р	
8	1.1487	7.49	20.31	27.80	46.00	-18.20	AVG	Р	
9	2.0934	11.32	20.37	31.69	56.00	-24.31	QP	Р	
10	2.0934	6.68	20.37	27.05	46.00	-18.95	AVG	Р	
11	13.3263	9.90	20.50	30.40	60.00	-29.60	QP	Р	
12	13.3263	5.34	20.50	25.84	50.00	-24.16	AVG	Р	

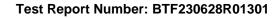




6.2 Occupied Bandwidth

	.2 Occupied Bandwidth				
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Test Limit:	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.				
Procedure:	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 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. ii) 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). ji) Place two markers, one at the lowest frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such tha				

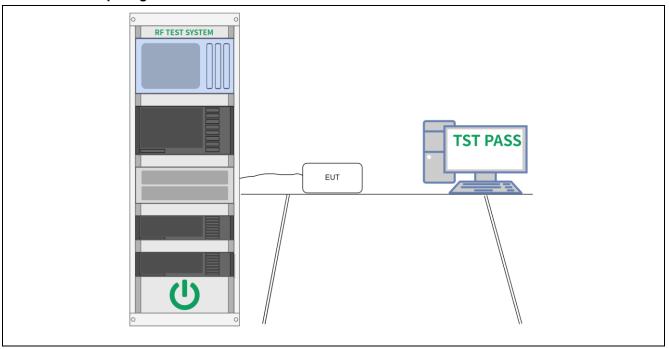
6.2.1 E.U.T. Operation:



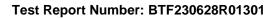


Temperature:	25.6 °C
Humidity:	50.6 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:



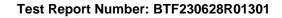


6.3 Maximum Conducted Output Power

Test Requirement:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band 10 watt. For all other frequency hopping systems in the
Test Method:	2400-2483.5 MHz band: 0.125 watts. Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices
Test Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, 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.

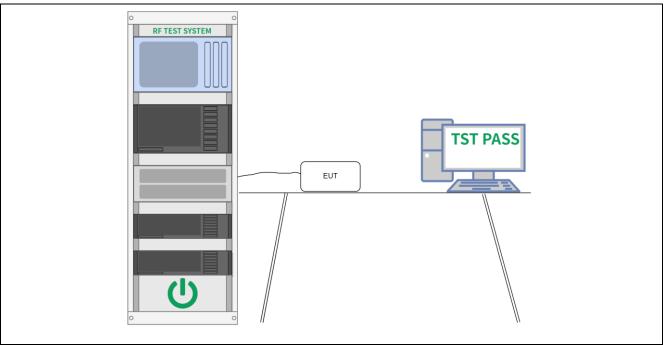
6.3.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.6 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

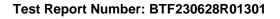




6.3.2 Test Setup Diagram:



6.3.3 Test Data:



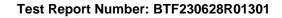


6.4 Channel Separation

Test Requirement:	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.
Test Method:	Carrier frequency separation
Test Limit:	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.

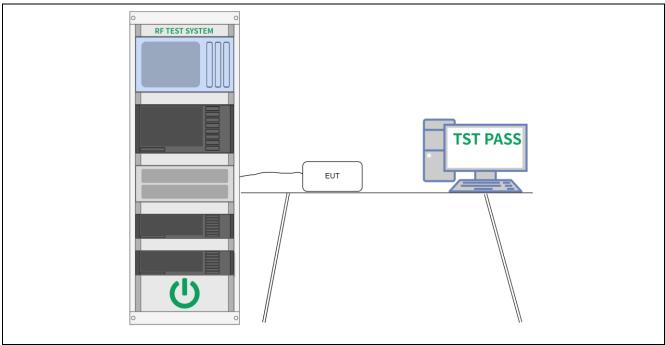
6.4.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.6 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

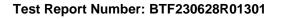




6.4.2 Test Setup Diagram:



6.4.3 Test Data:



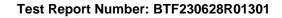


6.5 Number of Hopping Frequencies

	Test Requirement:	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.
Test Method:		Number of hopping frequencies
	Test Limit:	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: 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.

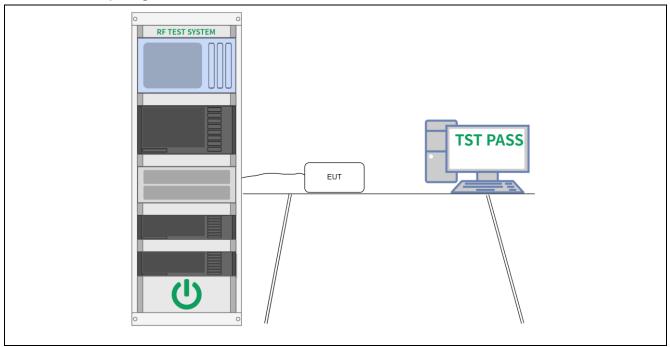
6.5.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.6 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

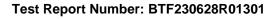




6.5.2 Test Setup Diagram:



6.5.3 Test Data:



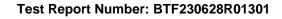


6.6 Dwell Time

0.0 Dwell fille	
Test Requirement:	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.
Test Method:	Time of occupancy (dwell time)
Test Limit:	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.

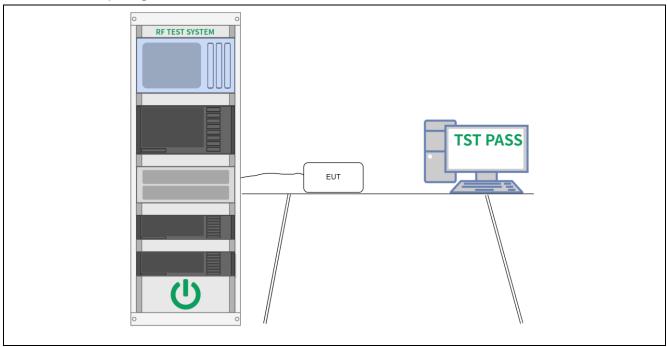
6.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.6 °C		
Humidity:	50.6 %		
Atmospheric Pressure:	1010 mbar		

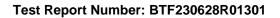




6.6.2 Test Setup Diagram:



6.6.3 Test Data:



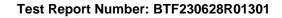


6.7 Emissions in non-restricted frequency bands

Test Requirement:	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:	Conducted spurious emissions test methodology
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:	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.

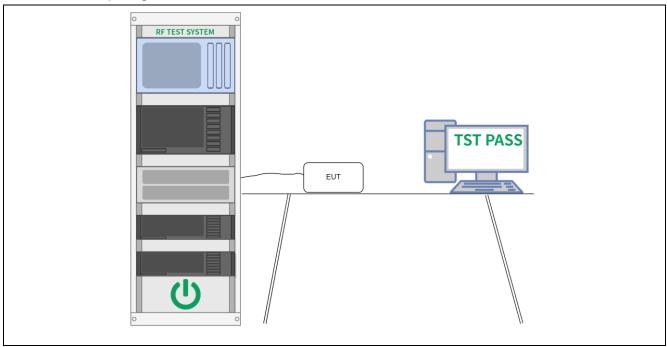
6.7.1 E.U.T. Operation:

Operating Environment:		
Temperature:	25.6 °C	
Humidity:	50.6 %	
Atmospheric Pressure:	1010 mbar	

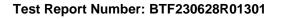




6.7.2 Test Setup Diagram:



6.7.3 Test Data:





6.8 Band edge emissions (Radiated)

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						
	0.009-0.490	Field strength (microvolts/meter) 2400/F(kHz)	Measurement distance (meters)				
	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				
	** 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.						
Procedure:	ANSI C63.10-2013 section	n 6.6.4					

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.9 °C		
Humidity:	49.4 %		
Atmospheric Pressure:	1010 mbar		



6.8.2 Test Data:

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

	Frequency	Reading	Factor	Level	Limit	Margin(dB	Detecto	
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m))	r	P/F
1	2310.000	67.98	-30.59	37.39	74.00	-36.61	peak	Р
2	2390.000	70.10	-30.49	39.61	74.00	-34.39	peak	Р
3	2400.000	77.88	-30.48	47.40	74.00	-26.60	peak	Р

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

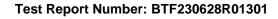
	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	68.01	-30.59	37.42	74.00	-36.58	peak	Р
2	2390.000	69.16	-30.49	38.67	74.00	-35.33	peak	Р
3	2400.000	78.70	-30.48	48.22	74.00	-25.78	peak	Р

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

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	80.56	-30.39	50.17	74.00	-23.83	peak	Р
2	2500.000	70.50	-30.37	40.13	74.00	-33.87	peak	Р

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

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	80.80	-30.39	50.41	74.00	-23.59	peak	Р
2	2500.000	70.15	-30.37	39.78	74.00	-34.22	peak	Р





TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	68.59	-30.59	38.00	74.00	-36.00	peak	Р
2	2390.000	70.17	-30.49	39.68	74.00	-34.32	peak	Р
3	2400.000	78.40	-30.48	47.92	74.00	-26.08	peak	Р

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

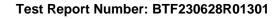
	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	68.64	-30.59	38.05	74.00	-35.95	peak	Р
2	2390.000	70.53	-30.49	40.04	74.00	-33.96	peak	Р
3	2400.000	78.34	-30.48	47.86	74.00	-26.14	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	80.72	-30.39	50.33	74.00	-23.67	peak	Р
2	2500.000	70.34	-30.37	39.97	74.00	-34.03	peak	Р

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit		Detecto	
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	r	P/F
1	2483.500	79.83	-30.39	49.44	74.00	-24.56	peak	Р
2	2500.000	71.87	-30.37	41.50	74.00	-32.50	peak	Р





TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

		Readin						
	Frequency	g	Factor	Level	Limit		Detecto	
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	r	P/F
1	2310.000	68.55	-30.59	37.96	74.00	-36.04	peak	Р
2	2390.000	68.97	-30.49	38.48	74.00	-35.52	peak	Р
3	2400.000	78.59	-30.48	48.11	74.00	-25.89	peak	Р

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

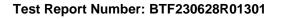
	Frequency	Reading	Factor	Level	Limit			
No	. (MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	67.61	-30.59	37.02	74.00	-36.98	peak	Р
2	2390.000	70.69	-30.49	40.20	74.00	-33.80	peak	Р
3	2400.000	77.98	-30.48	47.50	74.00	-26.50	peak	Р

TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	80.39	-30.39	50.00	74.00	-24.00	peak	Р
2	2500.000	71.79	-30.37	41.42	74.00	-32.58	peak	Р

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	79.38	-30.39	48.99	74.00	-25.01	peak	Р
2	2500.000	71.83	-30.37	41.46	74.00	-32.54	peak	Р



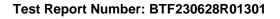


6.9 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	15.205(a), must also com	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										
	0.009-0.490	Field strength (microvolts/meter) 2400/F(kHz)	Measurement distance (meters) 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								
	** 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.										
Procedure:	ANSI C63.10-2013 section	n 6.6.4									

6.9.1 E.U.T. Operation:

Operating Environment:								
Temperature:	24.9 °C							
Humidity:	49.4 %							
Atmospheric Pressure:	1010 mbar							



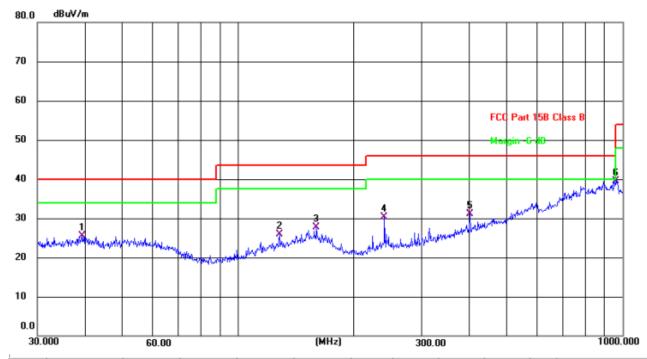


6.9.2 Test Data:

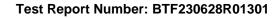
Note: All the mode have been tested, and only the worst case of GFSK mode are in the report

Note: Level = Reading level + Factor

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

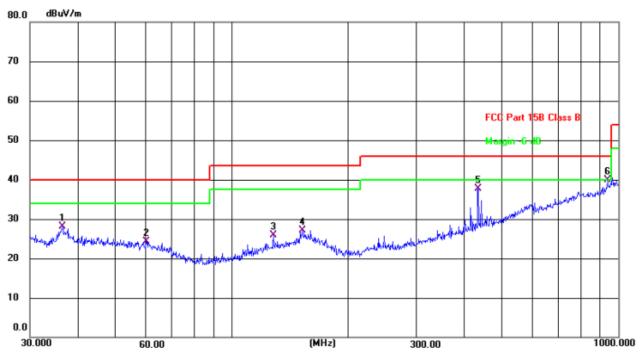


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.1615	43.43	-17.88	25.55	40.00	-14.45	QP	100	290	Р	
2	128.1130	47.22	-21.37	25.85	43.50	-17.65	QP	299	348	Р	
3	159.7844	47.86	-20.21	27.65	43.50	-15.85	QP	100	12	Р	
4	239.9873	49.98	-19.58	30.40	46.00	-15.60	QP	299	348	Р	
5	400.4318	49.95	-18.85	31.10	46.00	-14.90	QP	100	357	Р	
6 *	958.7943	57.95	-18.45	39.50	46.00	-6.50	QP	100	223	Р	

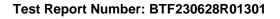








No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	36.3814	46.08	-17.90	28.18	40.00	-11.82	QP	100	359	Р	
2	60.0691	42.16	-17.79	24.37	40.00	-15.63	QP	100	155	Р	
3	128.1130	47.33	-21.37	25.96	43.50	-17.54	QP	299	348	Р	
4	152.1297	47.33	-20.23	27.10	43.50	-16.40	QP	299	326	Р	
5	434.0650	56.53	-18.91	37.62	46.00	-8.38	QP	100	233	Р	
6 *	938.8326	58.31	-18.50	39.81	46.00	-6.19	QP	299	49	Р	





6.10 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:	15.205(a), must also com	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								
	0.009-0.490	Field strength (microvolts/meter) 2400/F(kHz)	Measurement distance (meters) 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						
	issions from intentional and in the frequency bands However, operation within a of this part, e.g.,								
Procedure:	ANSI C63.10-2013 section	n 6.6.4							

6.10.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.9 °C
Humidity:	49.4 %
Atmospheric Pressure:	1010 mbar



Test Report Number: BTF230628R01301

6.10.2Test Data:

Note: Level = Reading level + Factor

1G~25G

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

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2913.888	70.28	-29.37	40.90	74.00	-33.10	peak	Р
2	4276.182	69.00	-29.62	39.39	74.00	-34.61	peak	Р
3	6085.091	65.61	-25.50	40.12	74.00	-33.88	peak	Р
4	8646.106	69.20	-25.70	43.50	74.00	-30.50	peak	Р
5	11048.071	68.63	-22.61	46.03	74.00	-27.97	peak	Р
6	14218.078	71.28	-21.76	49.51	74.00	-24.49	peak	Р

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

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2972.845	66.14	-30.37	35.78	74.00	-38.22	peak	Р
2	4313.395	68.72	-29.02	39.70	74.00	-34.30	peak	Р
3	6352.281	67.96	-25.44	42.52	74.00	-31.48	peak	Р
4	8575.205	69.97	-25.83	44.14	74.00	-29.86	peak	Р
5	11285.720	68.26	-23.50	44.76	74.00	-29.24	peak	Р
6	14955.756	71.43	-19.86	51.56	74.00	-22.44	peak	Р

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

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3033.902	66.19	-29.32	36.86	74.00	-37.14	peak	Р
2	4478.795	66.71	-29.01	37.70	74.00	-36.30	peak	Р
3	6404.334	68.85	-25.23	43.62	74.00	-30.38	peak	Р
4	9119.043	69.49	-24.58	44.91	74.00	-29.09	peak	Р
5	11647.263	70.48	-23.31	47.17	74.00	-26.83	peak	Р
6	13473.598	73.16	-20.68	52.48	74.00	-21.52	peak	Р

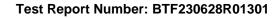
TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3119.299	63.85	-28.98	34.86	74.00	-39.14	peak	Р
2	4110.142	67.69	-29.66	38.04	74.00	-35.96	peak	Р
3	5953.667	68.30	-25.60	42.70	74.00	-31.30	peak	Р
4	7572.431	65.17	-24.63	40.54	74.00	-33.46	peak	Р
5	9929.540	69.47	-23.27	46.20	74.00	-27.80	peak	Р



Test Report Number: BTF230628R01301

	6	12827.044	70.26	-21.48	48.78	74.00	-25.22	peak	Р	
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TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3118.498	63.76	-28.47	35.28	74.00	-38.72	peak	Р
2	4109.524	68.39	-28.17	40.22	74.00	-33.78	peak	Р
3	5952.891	69.34	-25.17	44.17	74.00	-29.83	peak	Р
4	7571.383	65.47	-25.12	40.36	74.00	-33.64	peak	Р
5	9930.581	69.84	-24.26	45.59	74.00	-28.41	peak	Р
6	12828.842	71.04	-20.95	50.09	74.00	-23.91	peak	Р

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

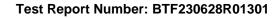
	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3032.269	67.07	-30.12	36.95	74.00	-37.05	peak	Р
2	4477.705	68.01	-28.58	39.43	74.00	-34.57	peak	Р
3	6405.189	67.97	-25.29	42.68	74.00	-31.32	peak	Р
4	9117.461	69.55	-24.22	45.33	74.00	-28.67	peak	Р
5	11647.573	70.24	-22.04	48.19	74.00	-25.81	peak	Р
6	13474.805	71.85	-19.67	52.18	74.00	-21.82	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2972.410	67.43	-28.79	38.65	74.00	-35.35	peak	Р
2	4312.471	69.56	-28.65	40.91	74.00	-33.09	peak	Р
3	6352.428	68.36	-24.70	43.66	74.00	-30.34	peak	Р
4	8575.479	69.97	-25.56	44.41	74.00	-29.59	peak	Р
5	11286.250	67.82	-23.48	44.35	74.00	-29.65	peak	Р
6	14955.729	70.19	-20.92	49.27	74.00	-24.73	peak	Р

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2915.138	70.65	-29.27	41.37	74.00	-32.63	peak	Р
2	4277.711	68.45	-29.18	39.26	74.00	-34.74	peak	Р
3	6084.621	64.97	-24.97	40.00	74.00	-34.00	peak	Р
4	8645.290	70.60	-25.54	45.07	74.00	-28.93	peak	Р
5	11046.575	67.38	-22.82	44.56	74.00	-29.44	peak	Р
6	14217.834	70.15	-20.47	49.67	74.00	-24.33	peak	Р





TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2915.494	69.19	-30.17	39.01	74.00	-34.99	peak	Р
2	4276.980	68.77	-29.49	39.28	74.00	-34.72	peak	Р
3	6084.649	64.21	-25.32	38.89	74.00	-35.11	peak	Р
4	8646.368	69.15	-25.25	43.90	74.00	-30.10	peak	Р
5	11047.681	67.38	-23.59	43.79	74.00	-30.21	peak	Р
6	14217.648	71.42	-20.56	50.86	74.00	-23.14	peak	Р

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

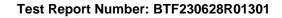
	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2972.933	67.11	-30.41	36.70	74.00	-37.30	peak	Р
2	4312.554	67.87	-29.34	38.53	74.00	-35.47	peak	Р
3	6354.241	68.42	-25.77	42.65	74.00	-31.35	peak	Р
4	8575.832	69.87	-24.81	45.06	74.00	-28.94	peak	Р
5	11285.608	67.68	-22.80	44.88	74.00	-29.12	peak	Р
6	14955.686	71.19	-20.39	50.80	74.00	-23.20	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3032.303	66.46	-29.75	36.71	74.00	-37.29	peak	Р
2	4478.519	67.79	-28.58	39.21	74.00	-34.79	peak	Р
3	6405.342	69.67	-25.75	43.93	74.00	-30.07	peak	Р
4	9118.855	69.04	-23.41	45.63	74.00	-28.37	peak	Р
5	11646.953	69.64	-23.09	46.54	74.00	-27.46	peak	Р
6	13474.812	73.33	-21.22	52.11	74.00	-21.89	peak	Р

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3118.935	64.83	-30.29	34.54	74.00	-39.46	peak	Р
2	4109.841	66.90	-29.89	37.01	74.00	-36.99	peak	Р
3	5953.805	68.61	-26.46	42.15	74.00	-31.85	peak	Р
4	7572.482	65.23	-23.95	41.28	74.00	-32.72	peak	Р
5	9928.932	70.82	-23.15	47.67	74.00	-26.33	peak	Р
6	12828.096	69.70	-22.02	47.68	74.00	-26.32	peak	Р





TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3119.299	63.32	-29.98	33.34	74.00	-40.66	peak	Р
2	4110.705	68.15	-29.77	38.37	74.00	-35.63	peak	Р
3	5952.305	68.35	-25.10	43.26	74.00	-30.74	peak	Р
4	7571.713	64.74	-25.84	38.91	74.00	-35.09	peak	Р
5	9929.762	69.37	-24.23	45.14	74.00	-28.86	peak	Р
6	12828.812	70.41	-20.64	49.77	74.00	-24.23	peak	Р

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

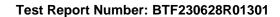
	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	3032.361	67.01	-28.81	38.19	74.00	-35.81	peak	Р
2	4478.839	66.29	-29.57	36.72	74.00	-37.28	peak	Р
3	6404.965	69.12	-24.62	44.50	74.00	-29.50	peak	Р
4	9118.813	68.66	-23.38	45.28	74.00	-28.72	peak	Р
5	11647.173	69.32	-22.08	47.23	74.00	-26.77	peak	Р
6	13474.760	72.54	-20.55	51.99	74.00	-22.01	peak	Р

TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2973.822	67.72	-29.63	38.10	74.00	-35.90	peak	Р
2	4313.937	68.82	-28.55	40.27	74.00	-33.73	peak	Р
3	6354.033	67.34	-24.71	42.63	74.00	-31.37	peak	Р
4	8576.617	68.93	-25.09	43.85	74.00	-30.15	peak	Р
5	11286.409	68.33	-24.14	44.19	74.00	-29.81	peak	Р
6	14955.339	70.94	-20.30	50.64	74.00	-23.36	peak	Р

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2913.708	69.98	-29.80	40.18	74.00	-33.82	peak	Р
2	4276.349	68.25	-28.93	39.32	74.00	-34.68	peak	Р
3	6086.406	65.20	-25.60	39.60	74.00	-34.40	peak	Р
4	8645.160	70.73	-26.03	44.71	74.00	-29.29	peak	Р
5	11046.504	67.21	-23.97	43.24	74.00	-30.76	peak	Р
6	14218.881	70.19	-21.62	48.57	74.00	-25.43	peak	Р



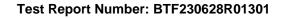


TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2972.749	66.05	-28.65	37.41	74.00	-36.59	peak	Р
2	4314.060	68.19	-28.31	39.88	74.00	-34.12	peak	Р
3	6352.862	67.86	-26.19	41.66	74.00	-32.34	peak	Р
4	8576.937	70.28	-25.62	44.66	74.00	-29.34	peak	Р
5	11285.195	67.19	-22.31	44.88	74.00	-29.12	peak	Р
6	14955.295	70.59	-19.43	51.16	74.00	-22.84	peak	Р

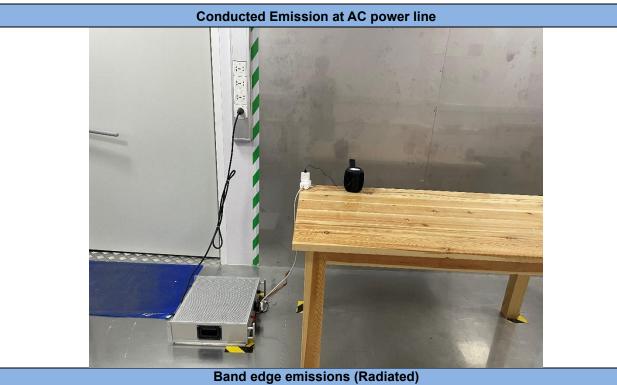
TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

	Frequency	Reading	Factor	Level	Limit			
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2914.242	69.07	-29.61	39.45	74.00	-34.55	peak	Р
2	4277.687	67.50	-29.41	38.09	74.00	-35.91	peak	Р
3	6086.151	65.25	-25.07	40.19	74.00	-33.81	peak	Р
4	8646.232	69.43	-24.12	45.30	74.00	-28.70	peak	Р
5	11047.491	68.76	-22.98	45.78	74.00	-28.22	peak	Р
6	14217.190	71.14	-21.93	49.22	74.00	-24.78	peak	Р

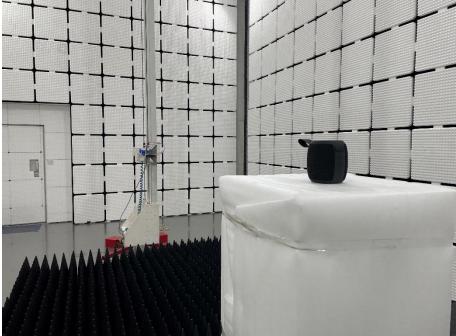




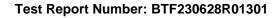
Test Setup Photos



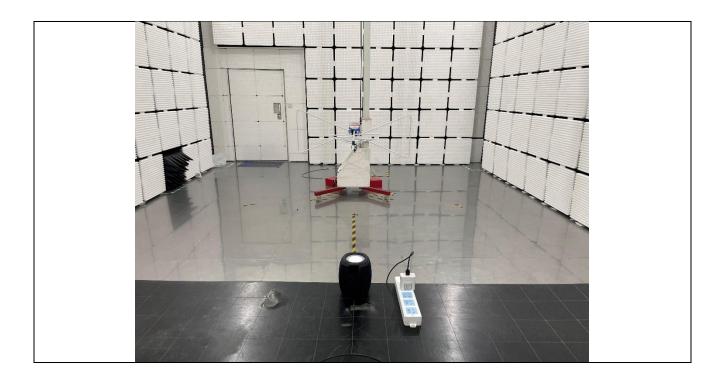
Emissions in restricted frequency bands (above 1GHz)

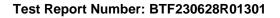


Emissions in restricted frequency bands (below 1GHz)







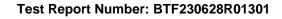




EUT Constructional Details (EUT Photos)

Please Refer to Appendix _EUT Photos.

Appendix



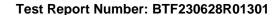


1. Bandwidth

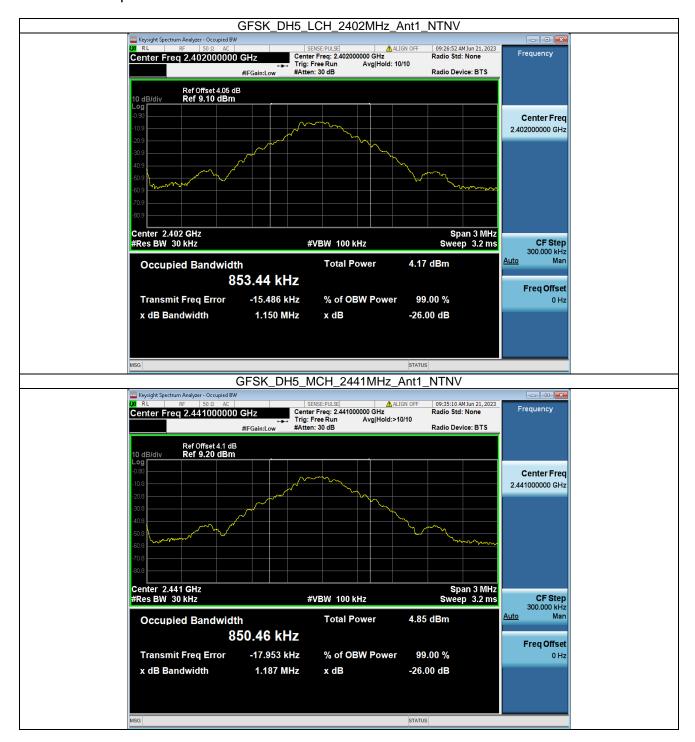
1.1 OBW

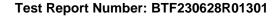
1.1.1 Test Result

Mode	TX	Frequency (MHz)	Packet	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
	Туре	, ,	Type			
		2402	DH5	1	0.853	Pass
GFSK	SISO	2441	DH5	1	0.850	Pass
		2480	DH5	1	0.853	Pass
		2402	2DH5	1	1.171	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.170	Pass
		2480	2DH5	1	1.172	Pass
		2402	3DH5	1	1.182	Pass
8DPSK	SISO	2441	3DH5	1	1.178	Pass
		2480	3DH5	1	1.181	Pass

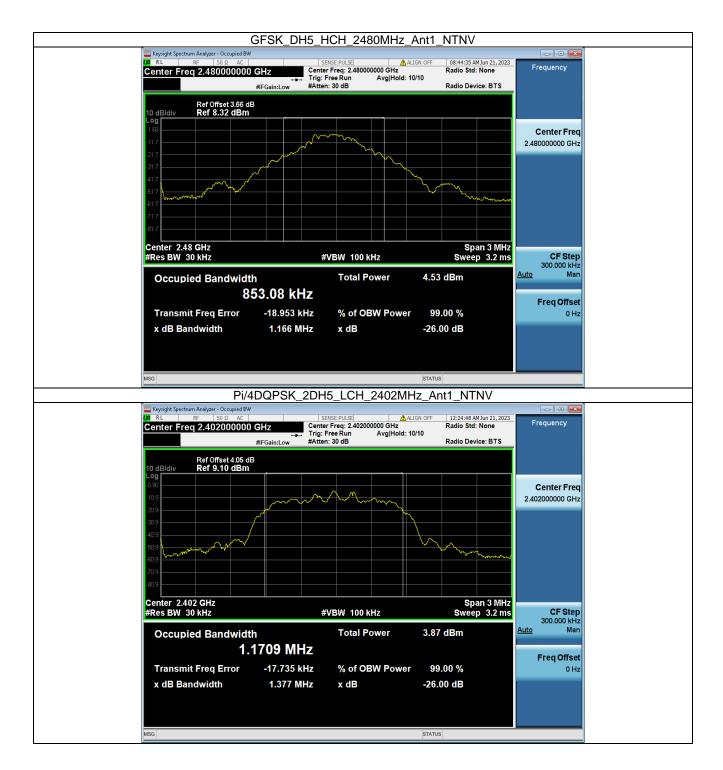


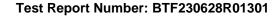




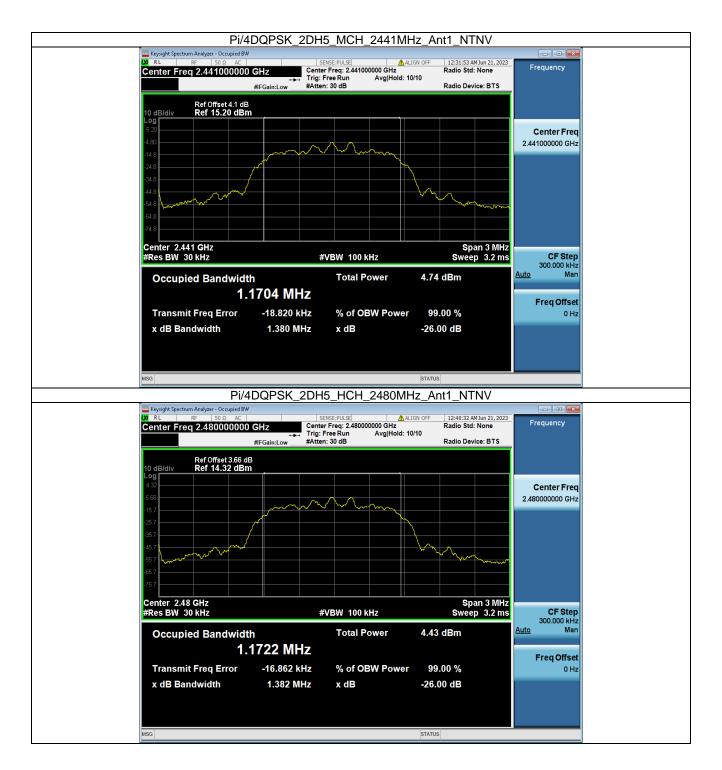


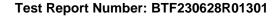




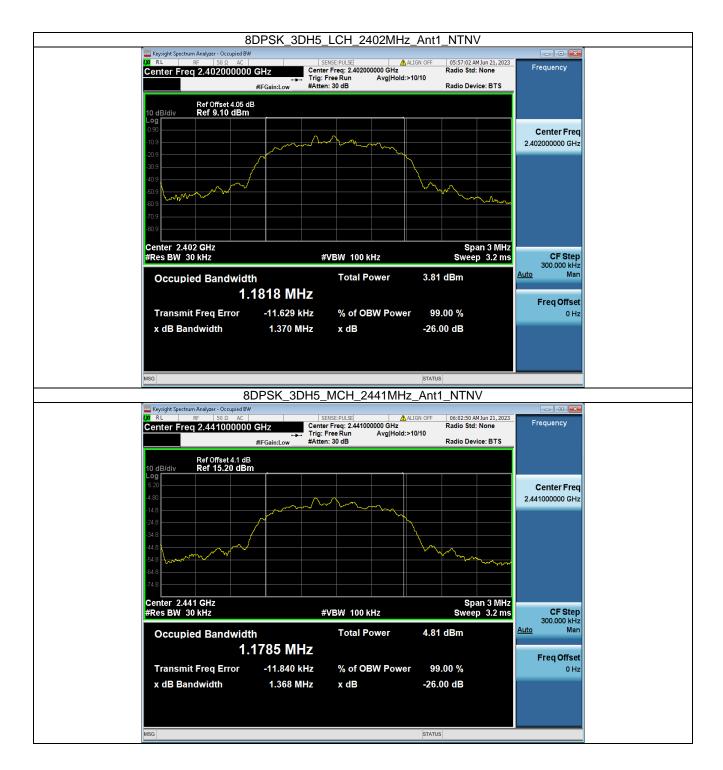


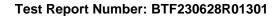




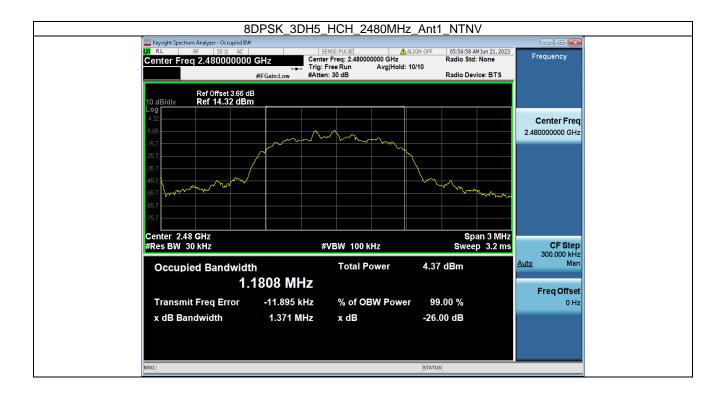


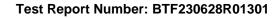










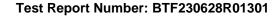




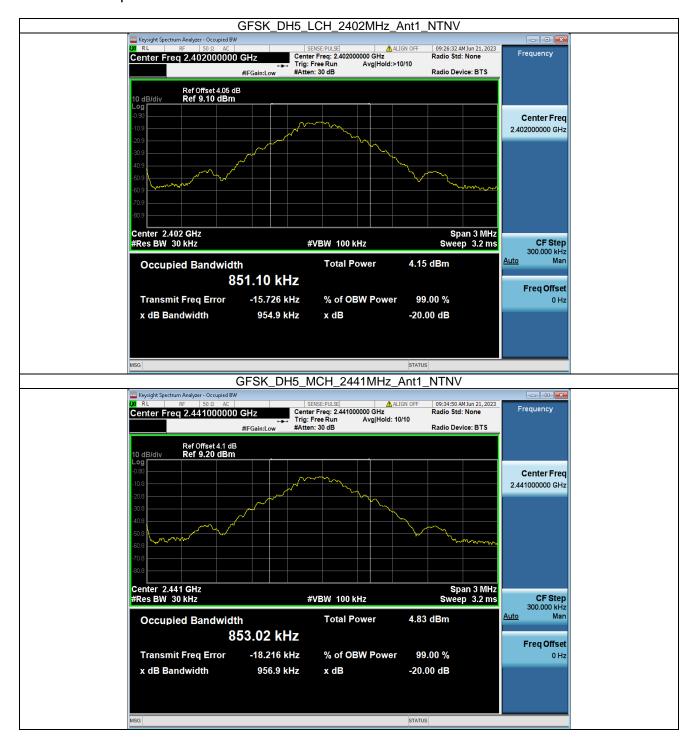
1.2 20dB BW

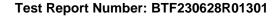
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz) Result	Verdict
	, ,	2402	DH5	1	0.955	Pass
GFSK	SISO	2441	DH5	1	0.957	Pass
		2480	DH5	1	0.959	Pass
		2402	2DH5	1	1.286	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.303	Pass
		2480	2DH5	1	1.309	Pass
		2402	3DH5	1	1.303	Pass
8DPSK	SISO	2441	3DH5	1	1.304	Pass
		2480	3DH5	1	1.302	Pass



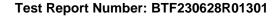




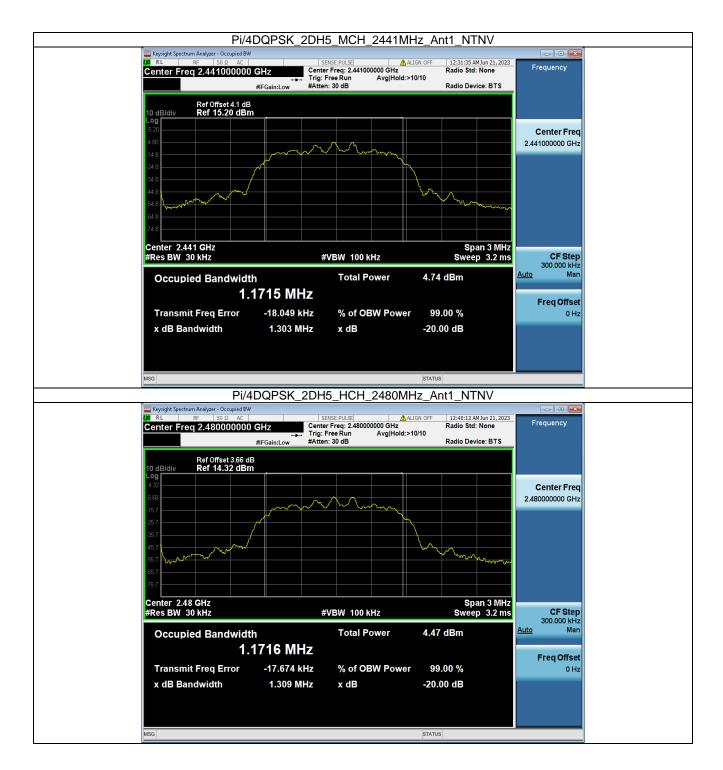


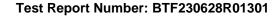




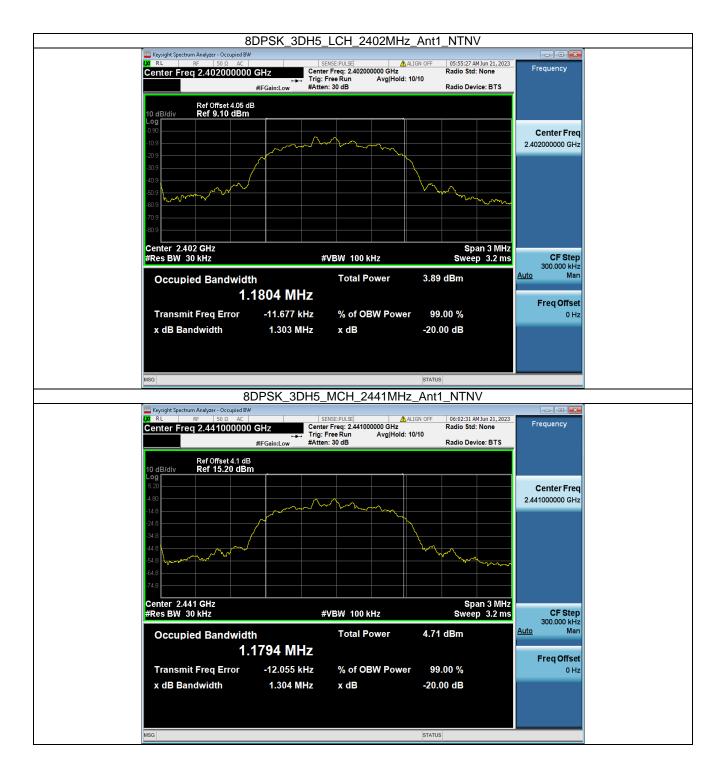


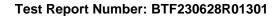




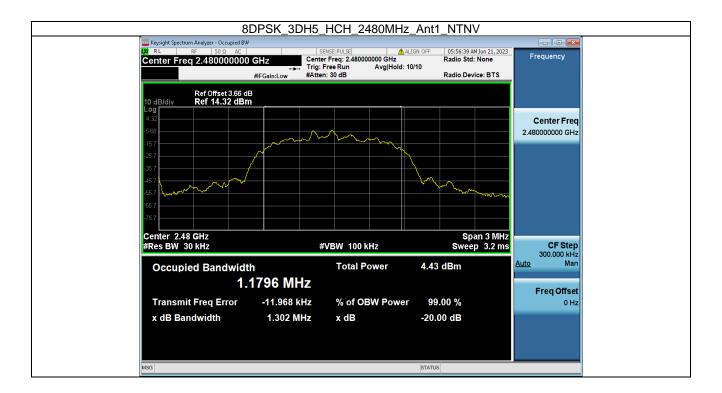












Test Report Number: BTF230628R01301

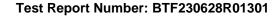


2. Maximum Conducted Output Power

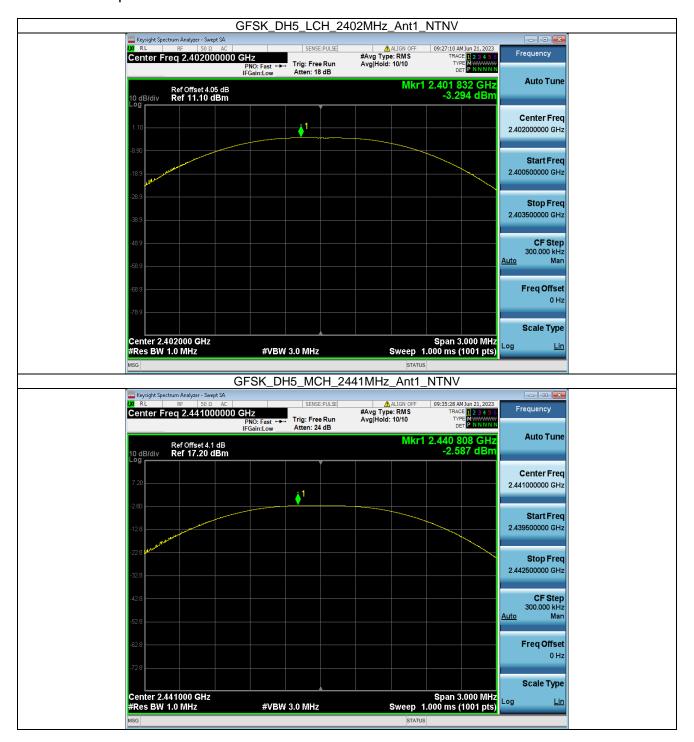
2.1 Power

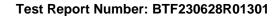
2.1.1 Test Result

Mode	TX	Frequency	Packet	Maximum Peak Conduc	ted Output Power (dBm)	Verdict				
Mode	Type	(MHz)	Type	ANT1	Limit	verdict				
		2402	DH5	-3.29	<=30	Pass				
GFSK	SISO	2441	DH5	-2.59	<=30	Pass				
		2480	DH5	-3.04	<=30	Pass				
		2402	2DH5	-2.16	<=20.97	Pass				
Pi/4DQPSK	SISO	2441	2DH5	-1.41	<=20.97	Pass				
		2480	2DH5	-1.82	<=20.97	Pass				
		2402	3DH5	-1.61	<=20.97	Pass				
8DPSK	SISO	2441	3DH5	-0.84	<=20.97	Pass				
		2480	3DH5	-1.32	<=20.97	Pass				
Note1: Antenn	Note1: Antenna Gain: Ant1: -0.68dBi;									

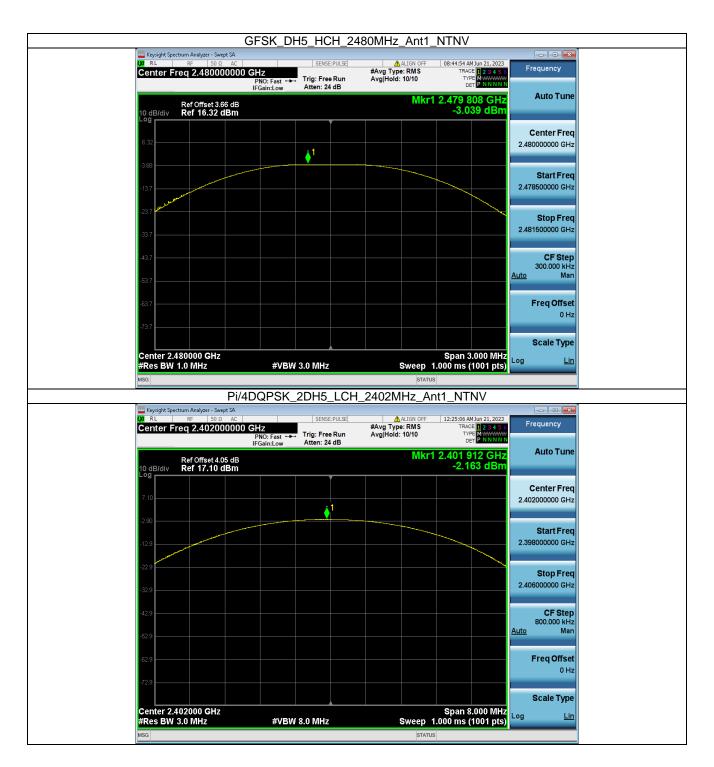


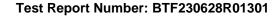




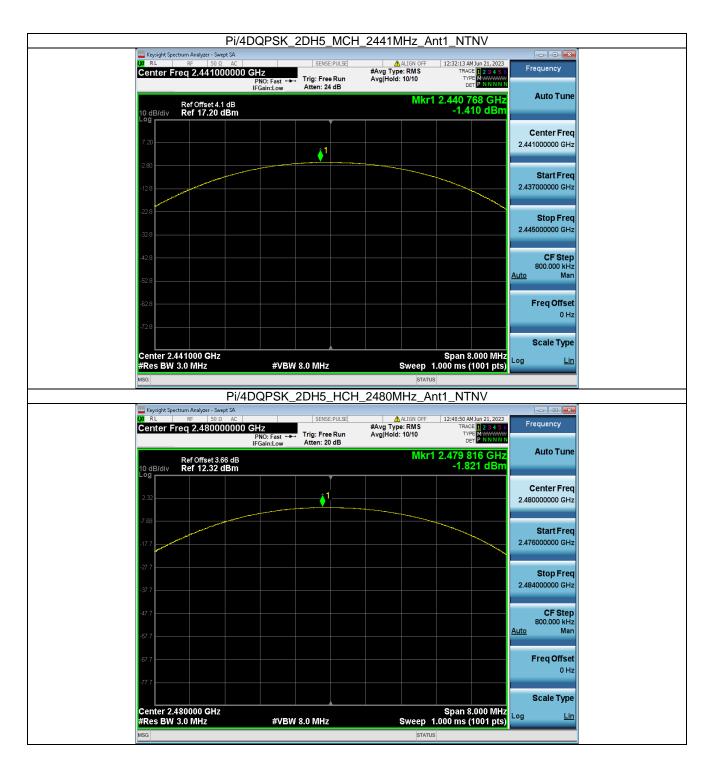


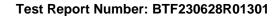




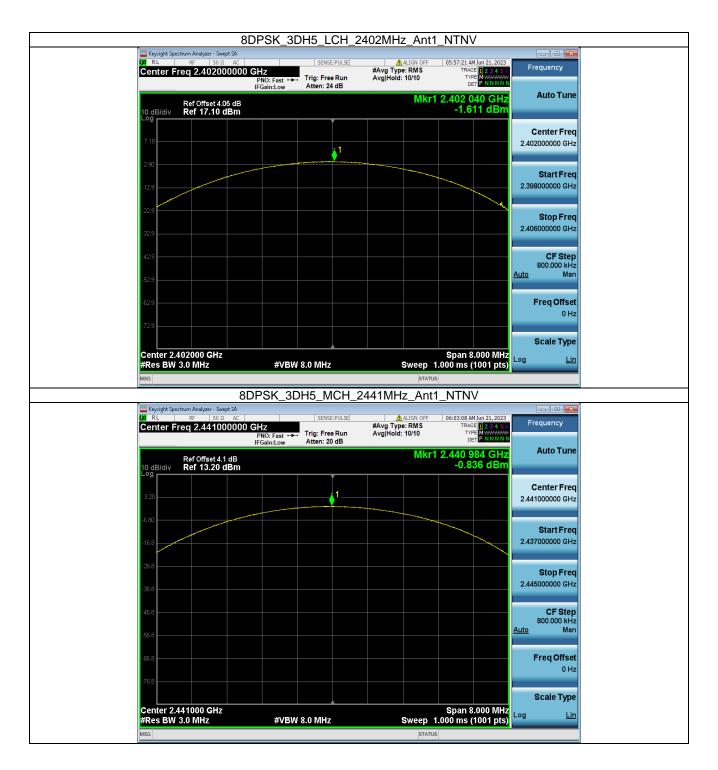


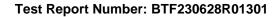




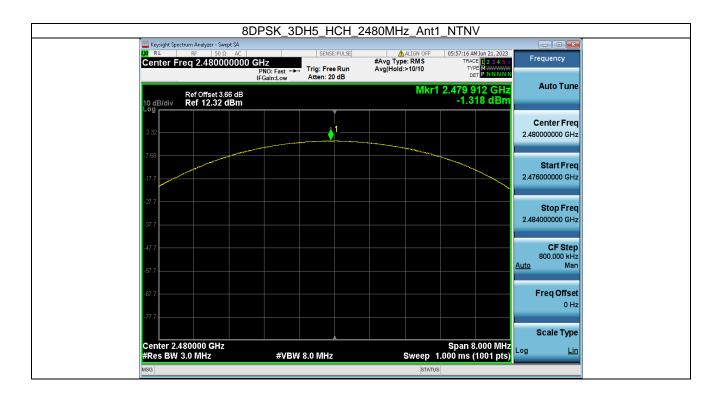


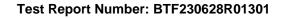












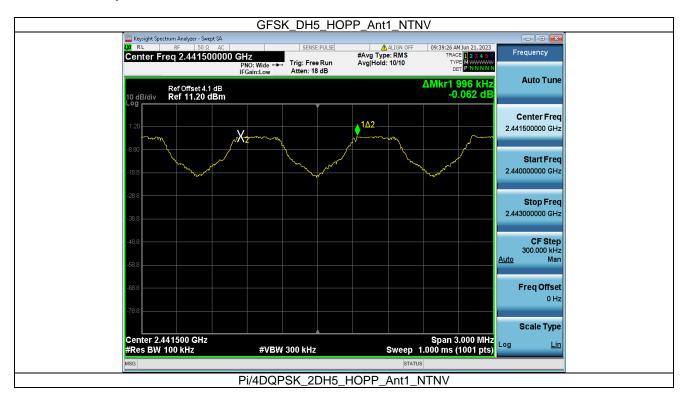


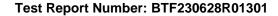
3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

Ant1									
Mode	TX	Frequency	Packet	Channel Separation	20dB Bandwidth	Limit	Verdict		
	Type	(MHz)	Type	(MHz)	(MHz)	(MHz)			
GFSK	SISO	HOPP	DH5	1.000	0.857	>=0.571	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	1.000	1.303	>=0.869	Pass		
8DPSK	SISO	HOPP	3DH5	1.010	1.304	>=0.869	Pass		

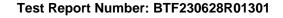












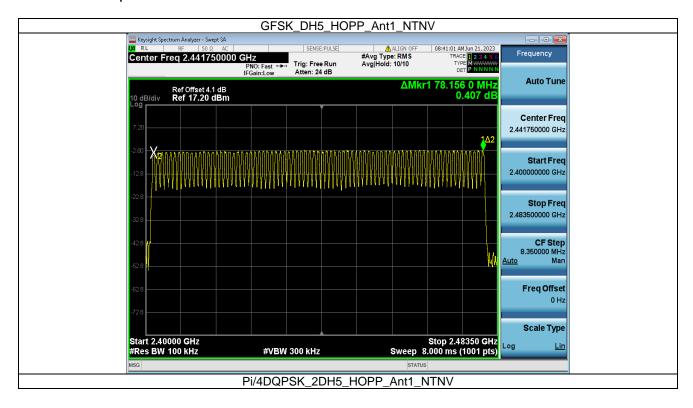


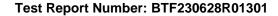
4. Number of Hopping Frequencies

4.1 HoppNum

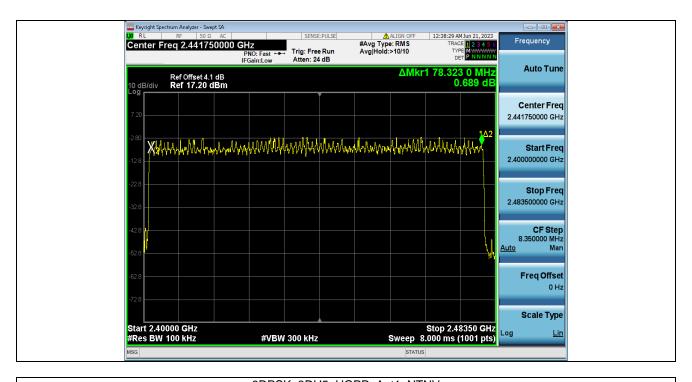
4.1.1 Test Result

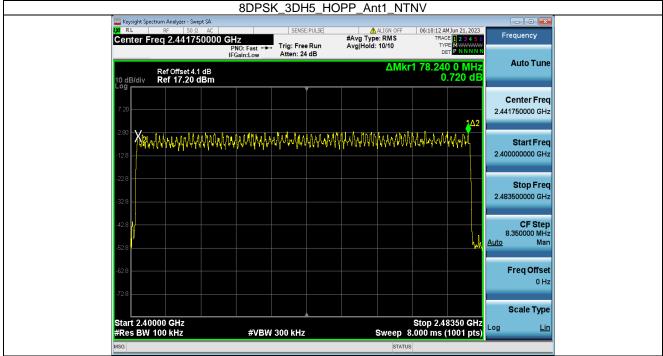
Mode	TX	Frequency	Packet Num of Hoppi		g Frequencies	Verdict	
Mode	Type	(MHz)	Type	ANT1	Limit	verdict	
GFSK	SISO	HOPP	DH5	79	>=15	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass	
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass	

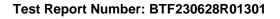












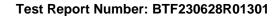


5. Time of Occupancy (Dwell Time)

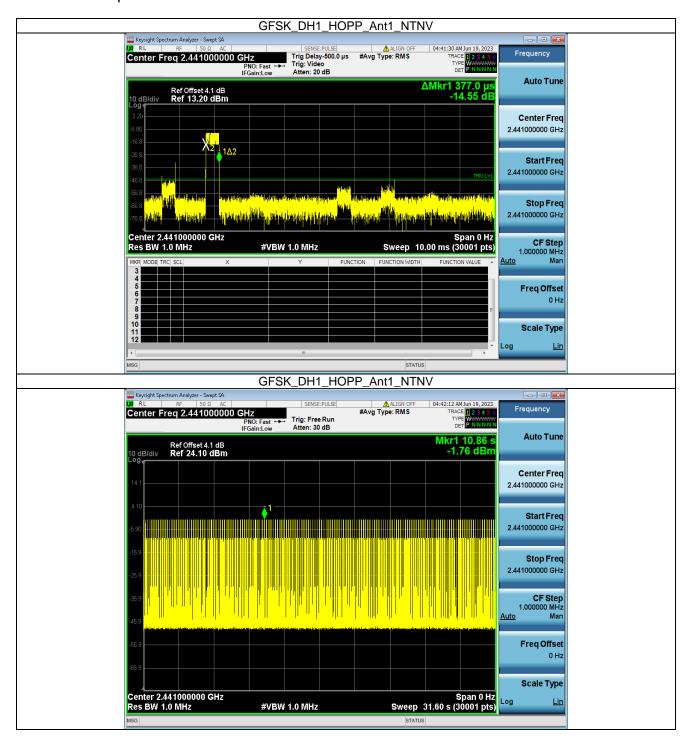
5.1 Ant1

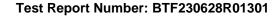
5.1.1 Test Result

Ant1									
Mode	TX	Frequency	Packet	Duration of	Observation	Num of Pulse in	Dwell	Limit	Verdict
	Type	(MHz)	Type	Single Pulse (ms)	Period (s)	Observation Period	Time (ms)	(ms)	verdict
GFSK	SISO	НОРР	DH1	0.377	31.600	321.00	121.017	<=400	Pass
			DH3	1.633	31.600	165.00	269.445	<=400	Pass
			DH5	2.881	31.600	121.00	348.601	<=400	Pass
Pi/4DQPSK	SISO	НОРР	2DH1	0.387	31.600	319.00	123.453	<=400	Pass
			2DH3	1.639	31.600	158.00	258.962	<=400	Pass
			2DH5	2.887	31.600	105.00	303.135	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.388	31.600	318.00	123.384	<=400	Pass
			3DH3	1.638	31.600	154.00	252.252	<=400	Pass
			3DH5	2.889	31.600	125.00	361.125	<=400	Pass

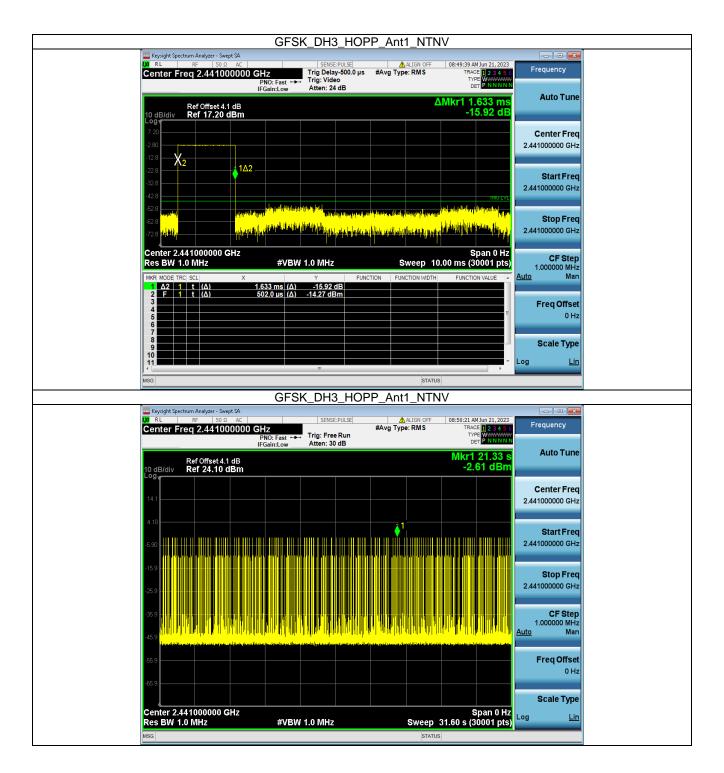


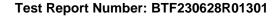




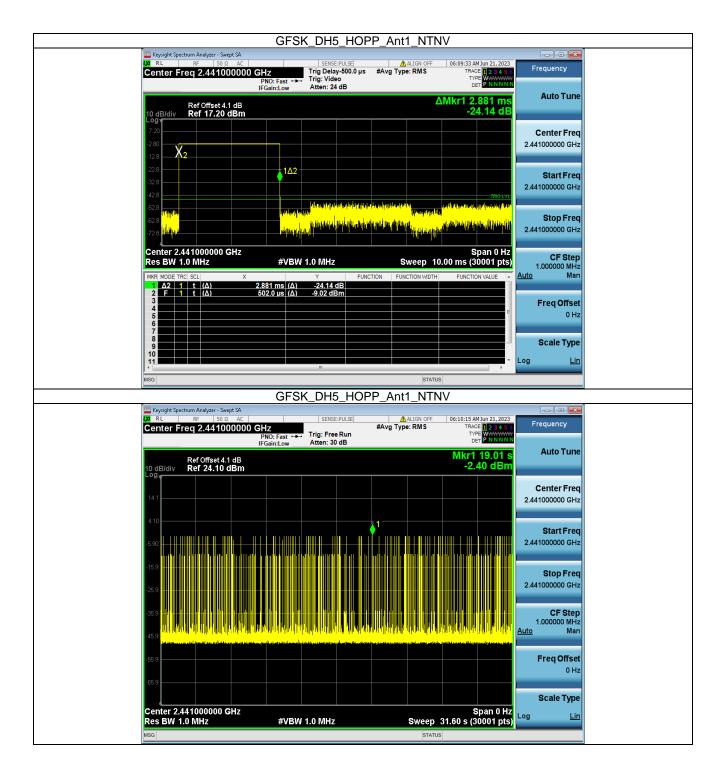


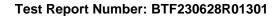




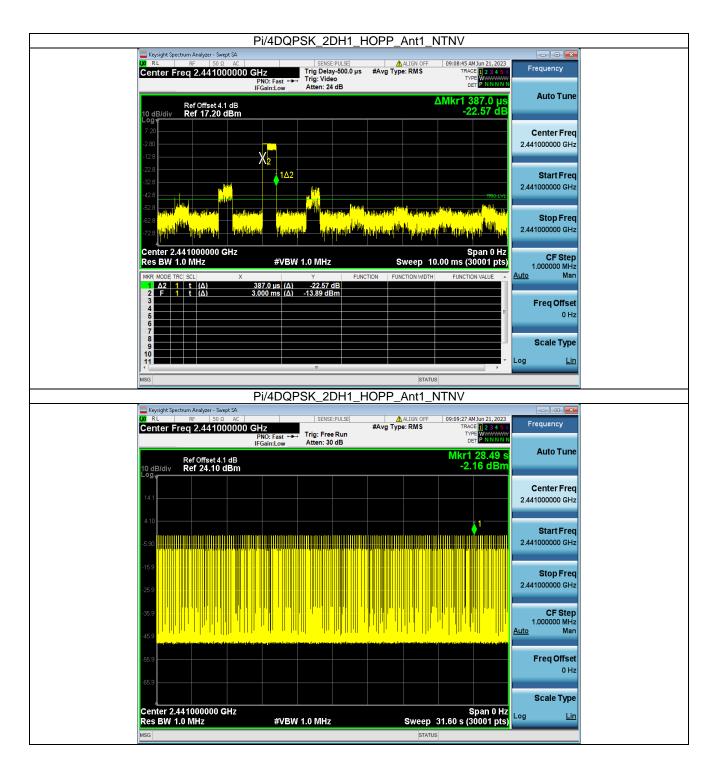


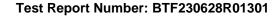




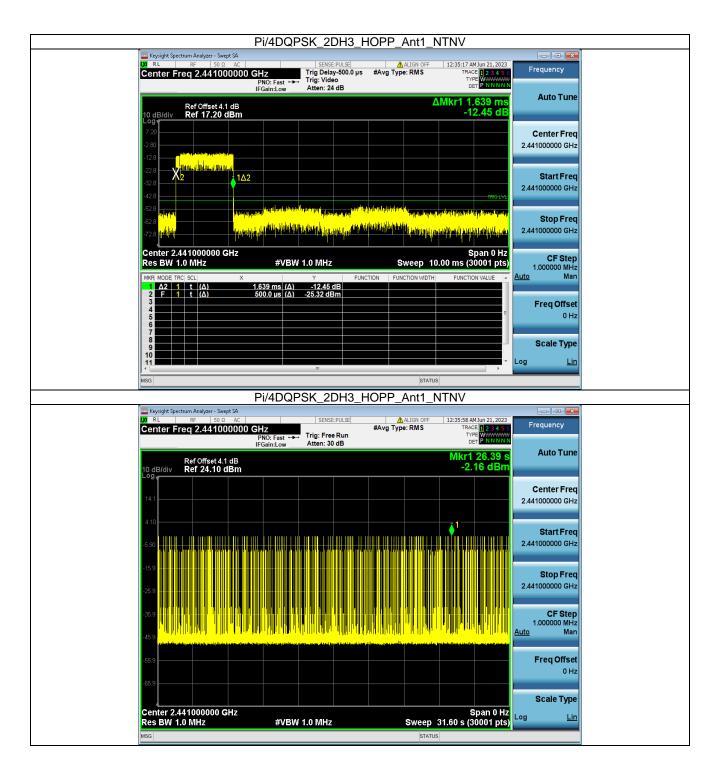


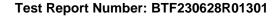




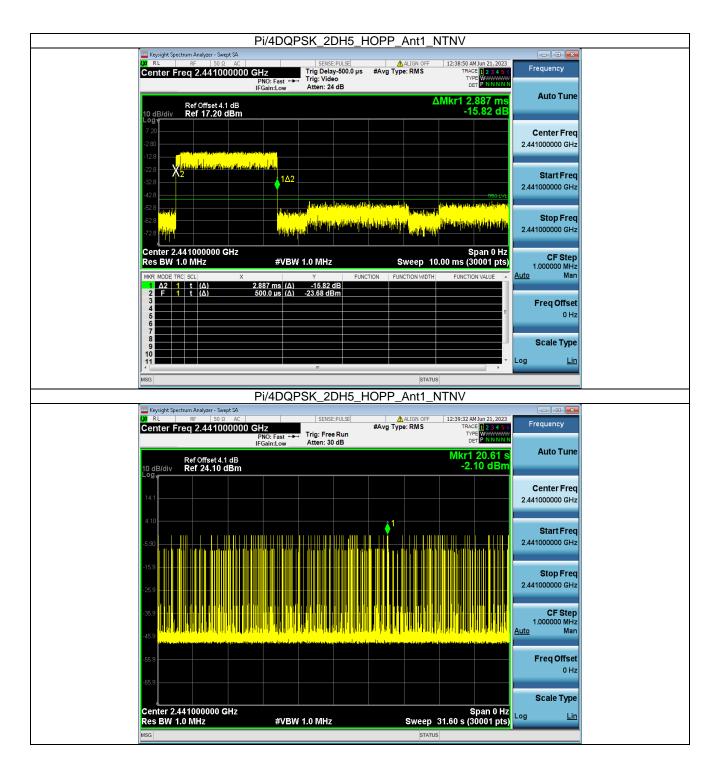


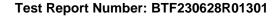




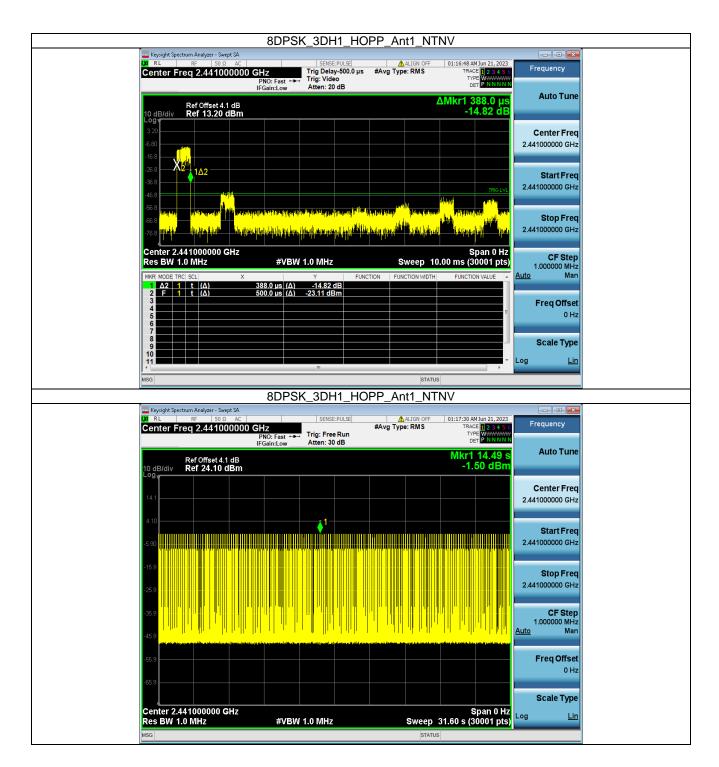


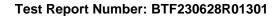




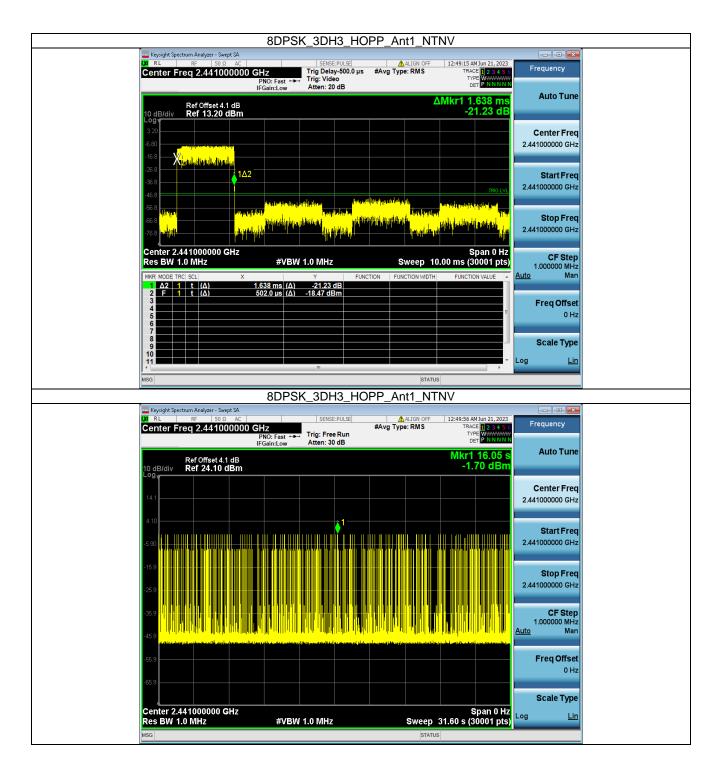


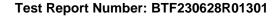




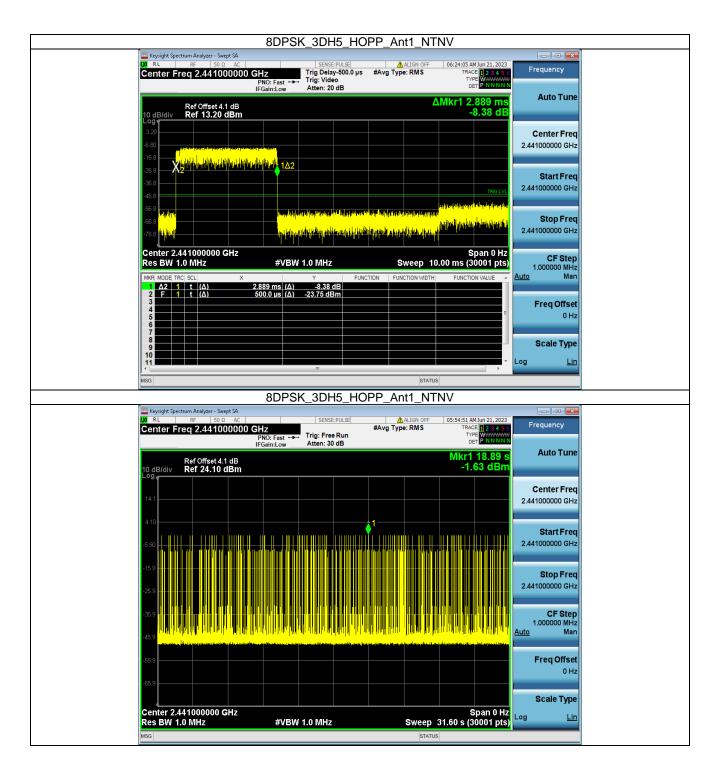


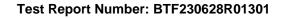








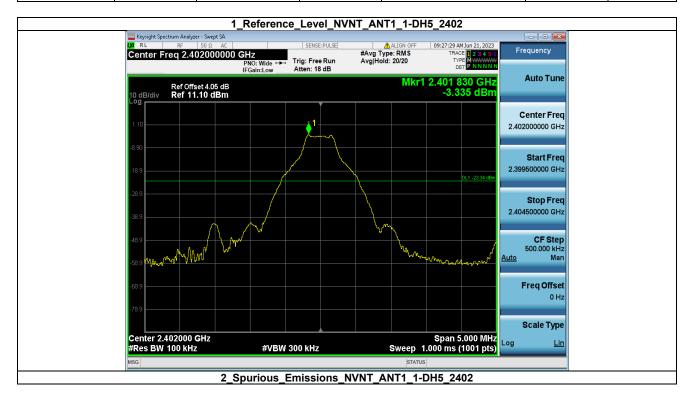


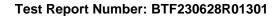




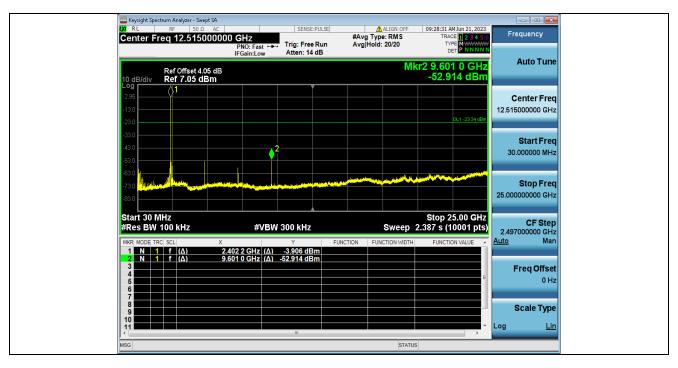
6.Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-52.914	-23.335	Pass
NVNT	ANT1	1-DH5	2441.00	-51.214	-22.673	Pass
NVNT	ANT1	1-DH5	2480.00	-50.281	-23.118	Pass
NVNT	ANT1	2-DH5	2402.00	-52.599	-23.373	Pass
NVNT	ANT1	2-DH5	2441.00	-53.866	-22.603	Pass
NVNT	ANT1	2-DH5	2480.00	-48.407	-23.009	Pass
NVNT	ANT1	3-DH5	2402.00	-52.294	-23.249	Pass
NVNT	ANT1	3-DH5	2441.00	-48.522	-22.420	Pass
NVNT	ANT1	3-DH5	2480.00	-50.846	-22.963	Pass

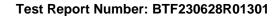




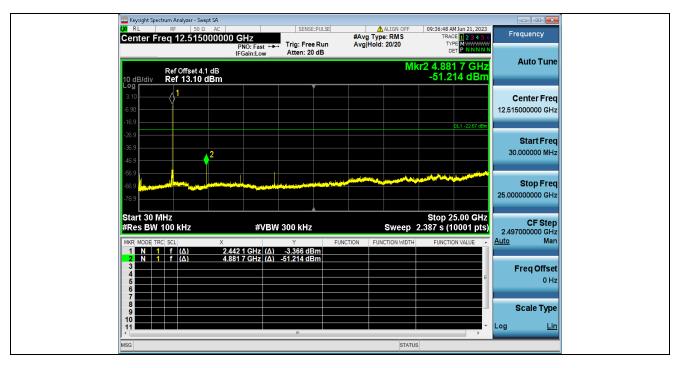




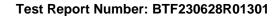






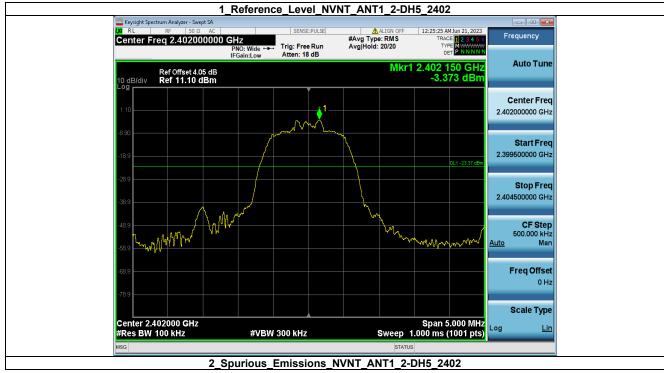


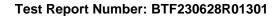




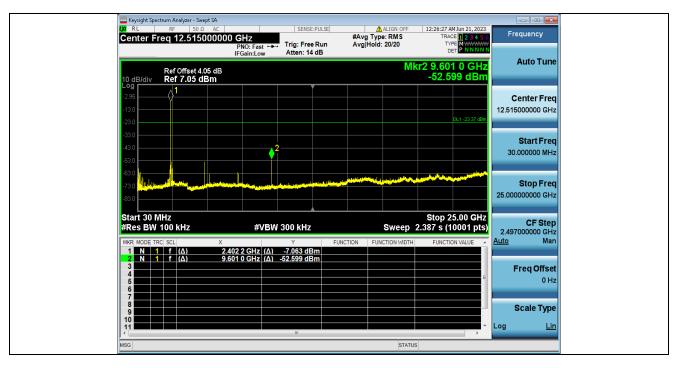




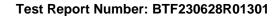




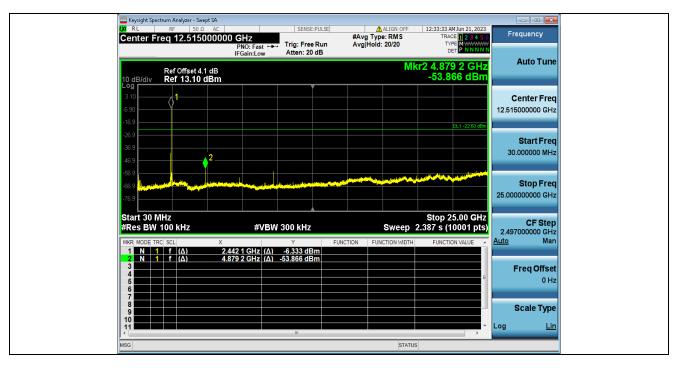




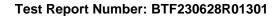








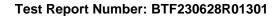




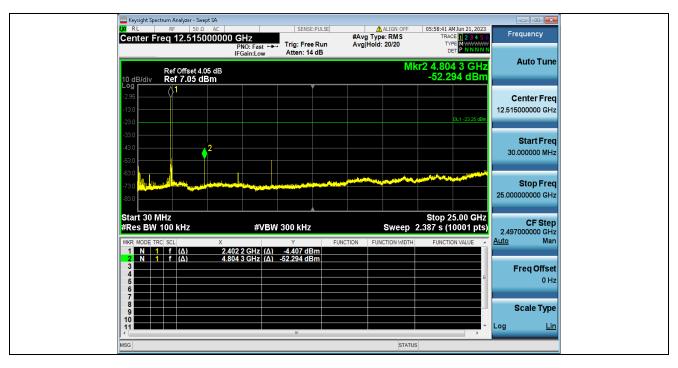




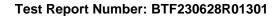




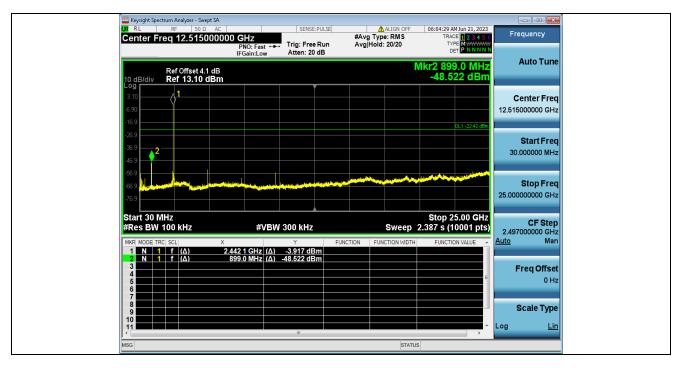




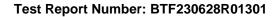




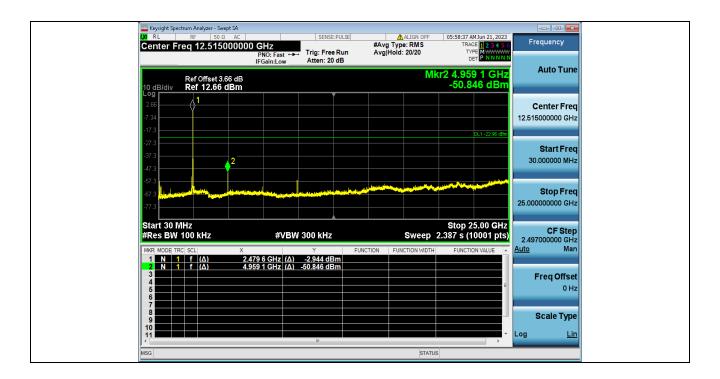


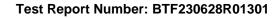








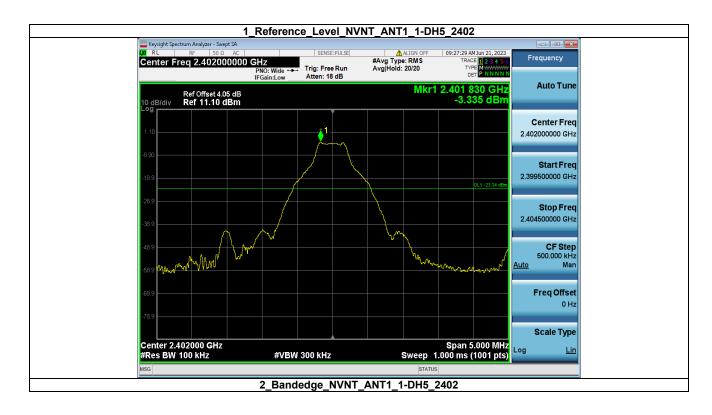


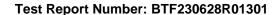




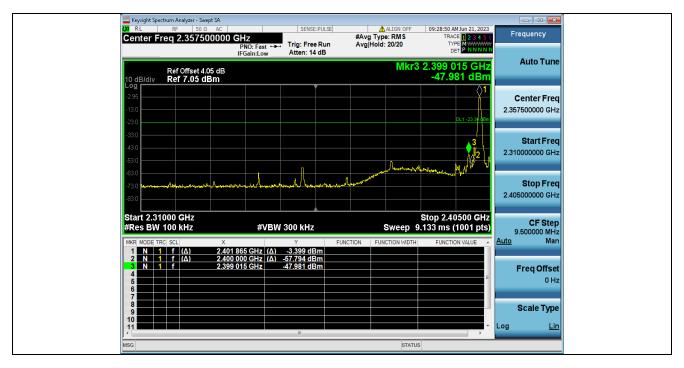
7.Bandedge

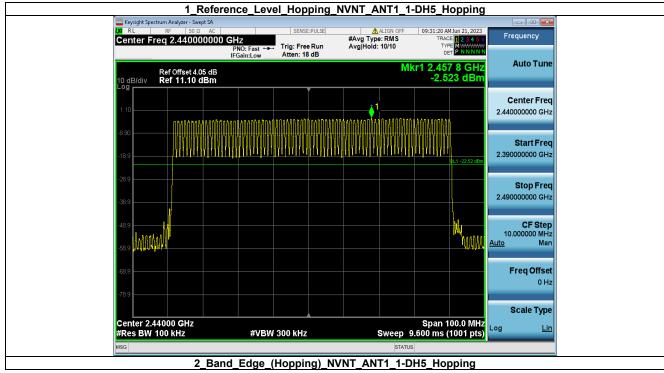
Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-47.981	-23.335	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-49.041	-22.523	Pass
NVNT	ANT1	1-DH5	2480.00	-48.796	-23.118	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-50.949	-22.956	Pass
NVNT	ANT1	2-DH5	2402.00	-47.433	-23.373	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-51.360	-22.454	Pass
NVNT	ANT1	2-DH5	2480.00	-48.831	-23.009	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-53.819	-22.855	Pass
NVNT	ANT1	3-DH5	2402.00	-48.752	-23.249	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-52.156	-22.389	Pass
NVNT	ANT1	3-DH5	2480.00	-50.790	-22.963	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-54.949	-22.788	Pass

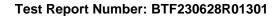




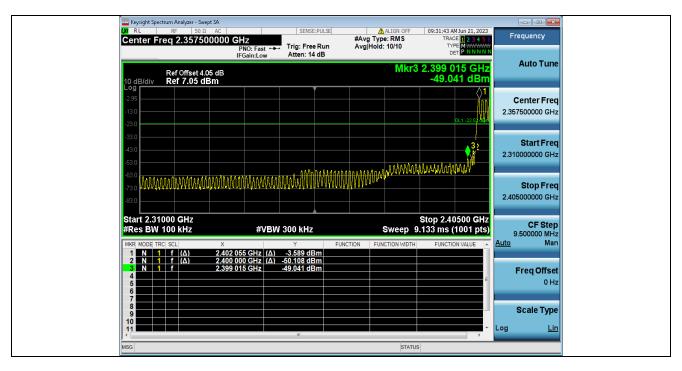




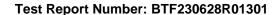




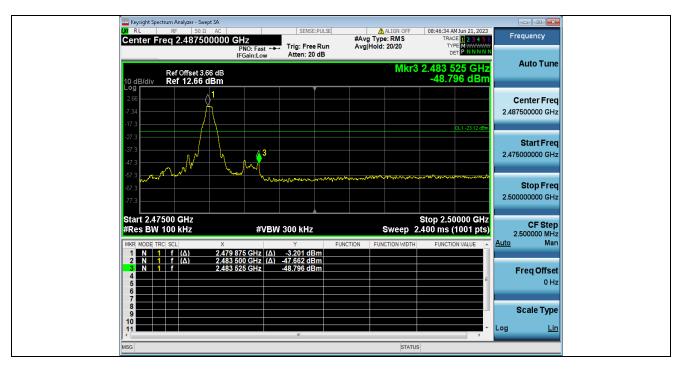




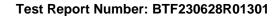




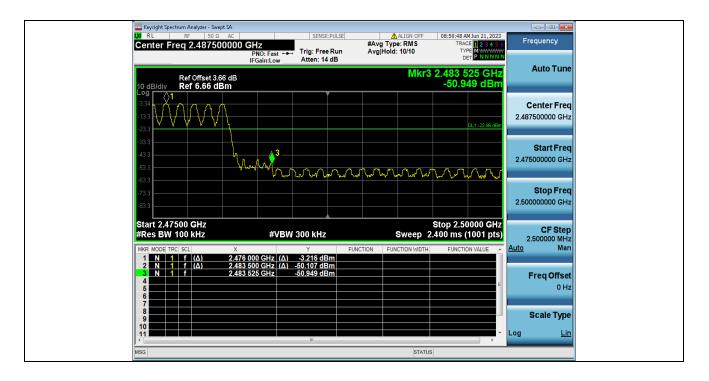


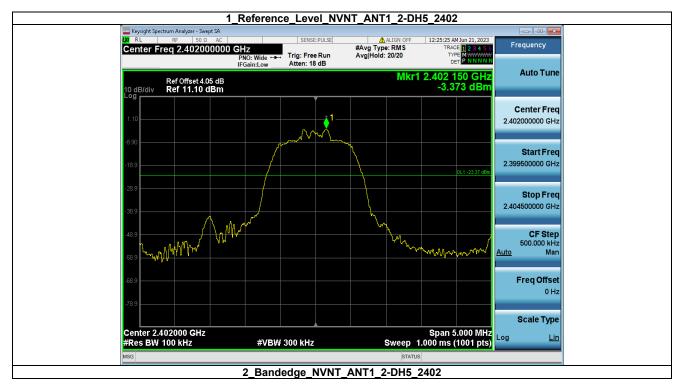


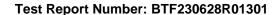






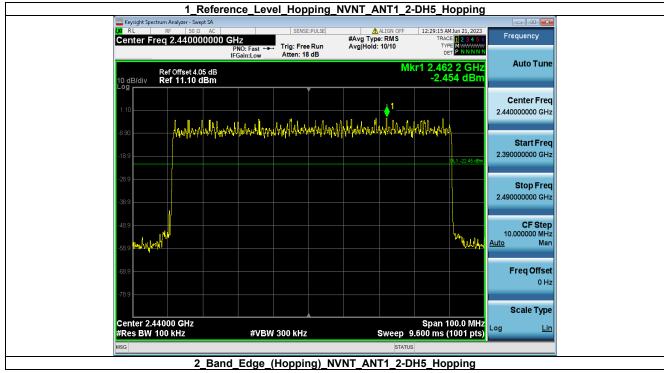


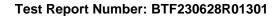




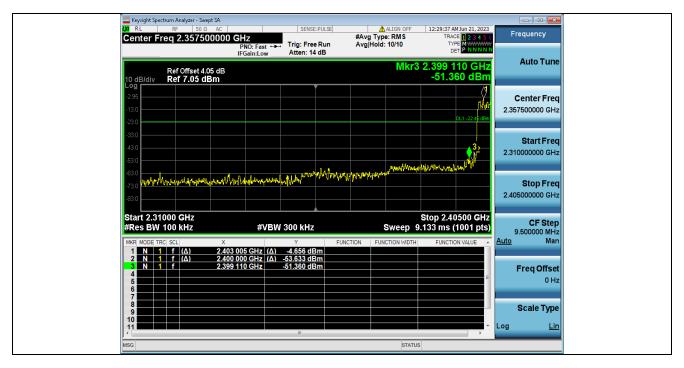




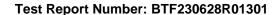




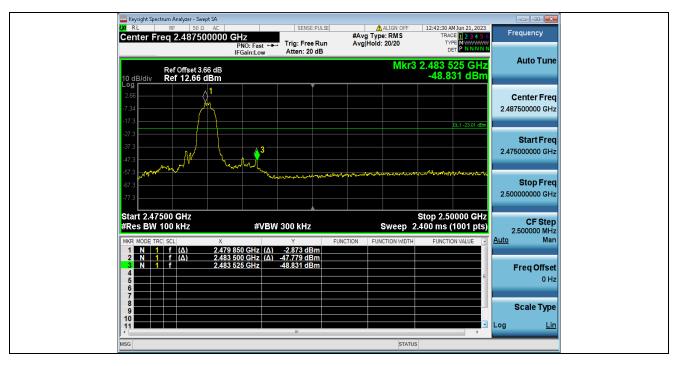


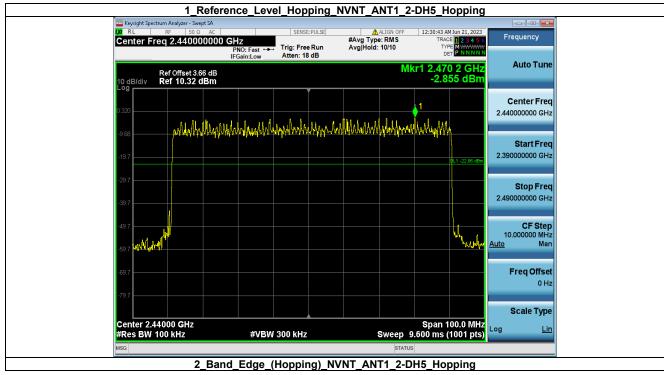


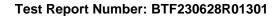




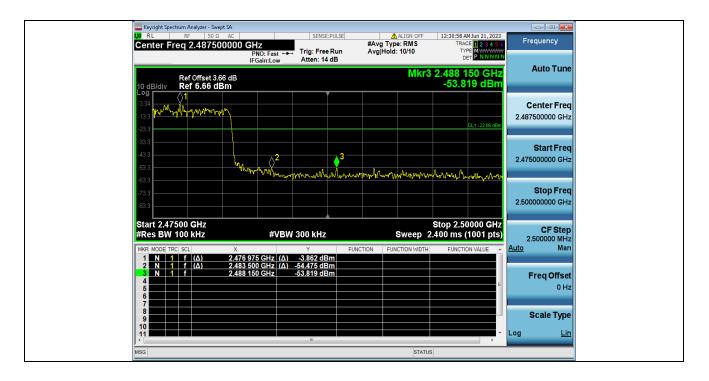




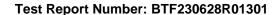




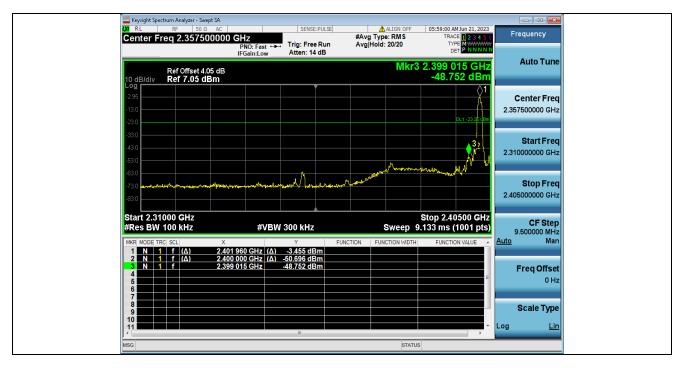


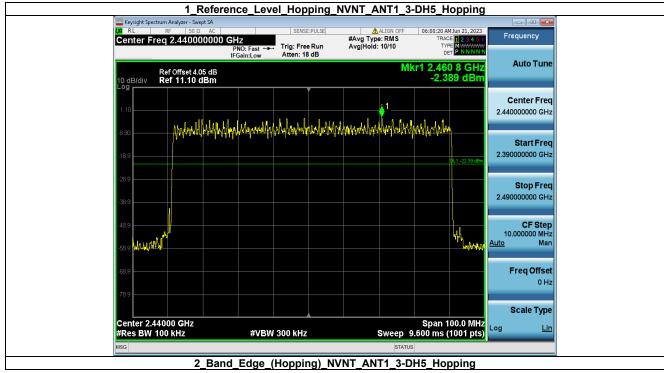


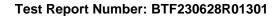




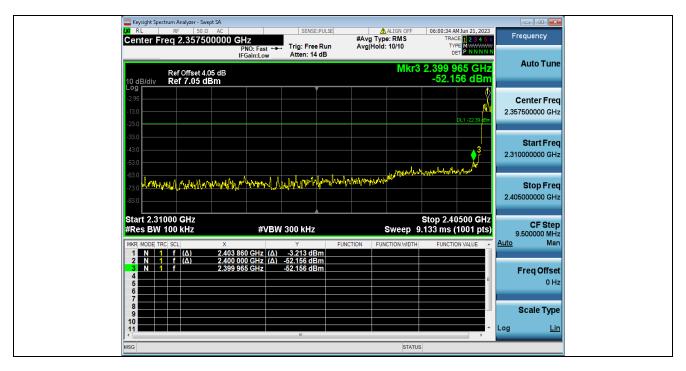




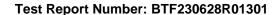




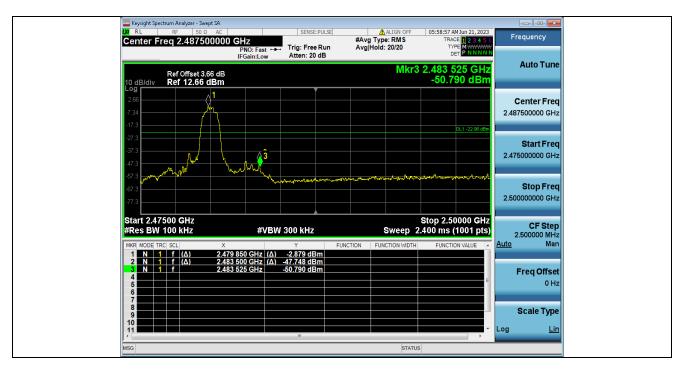


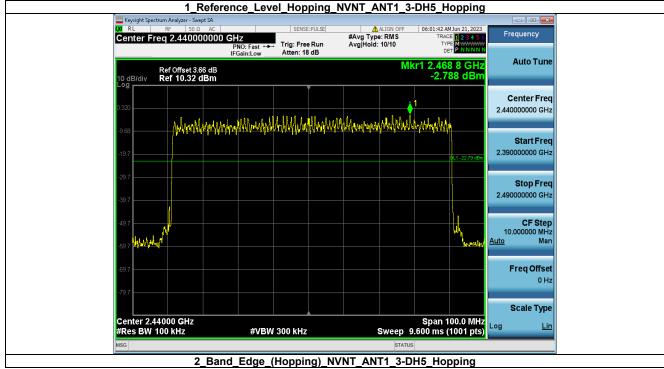


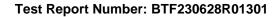




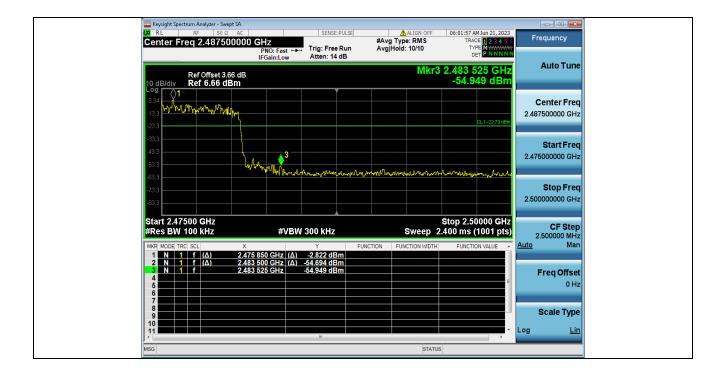


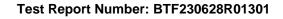












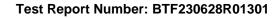


8. Form731

8.1 Form731

8.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0008	-0.84







BTF Testing Lab (Shenzhen) Co., Ltd.

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www.btf-lab.com

-- END OF REPORT --