

RF Test Report

For

Applicant Name: Shenzhen Xiang Xiang Yu Technology Co.,Ltd

Address: Workshop 301, No. 6, Qinhui Road, Gushu Community, Xixiang

Subdistrict, Baoan, Shenzhen, 518126 China

EUT Name: Bluetooth wireless stereo headset

Brand Name: N/A
Model Number: XY-16
Series Model Number: N/A

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: BTF230807R01001 Test Standards: 47 CFR Part 15.247

Test Conclusion: Pass

FCC ID: 2AXCT-XY-16

Test Date: 2023-08-01 to 2023-08-09

Date of Issue: 2023-08-10

Prepared By:

Chris Liu / Project Engineer

Date: 2023-08-10

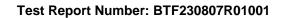
Approved By:

Ryan.CJ / EMC Manager

Date: 2023-08-10

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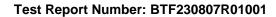


Revision History				
Version	Issue Date	Revisions Content		
R_V0	2023-08-10	Original		



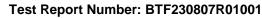
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1 Introduction

1.1 Identification of Testing Laboratory

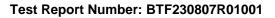
Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China			
Phone Number: +86-0755-23146130			
Fax Number: +86-0755-23146130			

1.2 Identification of the Responsible Testing Location

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.		BTF Testing Lab (Shenzhen) Co., Ltd.
		F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number: +86-0755-23146130		+86-0755-23146130
Fax Number: +86-0755-23146130		+86-0755-23146130
FCC Registration Number:		518915
Designation Number: CN1330		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:	ny Name: Shenzhen Xiang Xiang Yu Technology Co.,Ltd	
Address:	Workshop 301, No. 6, Qinhui Road, Gushu Community,Xixiang Subdistrict,Baoan, Shenzhen, 518126 China	

2.2 Manufacturer Information

Company Name:	Shenzhen Xiang Xiang Yu Technology Co.,Ltd		
Address:	Workshop 301, No. 6, Qinhui Road, Gushu Community,Xixiang Subdistrict,Baoan, Shenzhen, 518126 China		

2.3 Factory Information

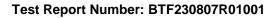
Company Name: Shenzhen Xiang Xiang Yu Technology Co.,Ltd	
Address:	Workshop 301, No. 6, Qinhui Road, Gushu Community, Xixiang Subdistrict, Baoan, Shenzhen, 518126 China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Bluetooth wireless stereo headset		
Test Model Number:	XY-16		
Series Model Number: N/A			
Model Different.: N/A			
Hardware Version: DXC-T8395-73D-V1.5			
Software Version:	BT5.3		

2.5 Technical Information

Power Supply:	DC 3.7V by battery, USB 5V charging	
Power Adaptor:	N/A	
Operation Frequency:	2402MHz to 2480MHz	
Number of Channels:	79	
Channel Separation: 1MHz		
Modulation Type:	GFSK, π/4 DQPSK	
Antenna Type:	SMD ANT	
Antenna Gain [#] :	1.95dBi	





Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

^{#:} 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.



Test Report Number: BTF230807R01001

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

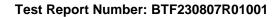
3.2 Uncertainty of Test

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

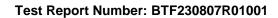
Test Equipment List

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	1	/	/	
RF Control Unit	Techy	TR1029-1	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	1	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	/	/	/	

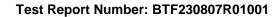




RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co.,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

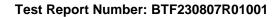
Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	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		

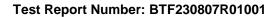
Band edge emissions	(Radiated)				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	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	1	1	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	80000	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





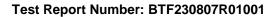
Emissions in restricted frequency bands (below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23	
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMAM-1 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	80000	2023-03-24	2024-03-23	
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21	
EZ_EMC	Frad	FA-03A2 RE+	/	/	/	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	/	
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27	
Loop Antenna	SCHWARZBECK	FMZB1519B	00191	2022-06-12	2024-06-11	
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2023-04-06	2024-04-05	

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	1	/	1
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+	1	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27





4.2 Test Auxiliary Equipment

Title	Manufacturer	Model No.	Serial No.
Adapter	Huawei	HW-100225C00	/

Test Modes

No.	Test Modes	Description
TM1	TX-GFSK	Keep the EUT in continuously transmitting mode (non-hopping) with
IIVII	(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-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK
TIVIS	TX-GF3K (Hopping)	modulation,.
TM4	TX-Pi/4DQPSK	Keep the EUT in continuously transmitting mode (hopping) with
1 1014	(Hopping)	Pi/4DQPSK modulation.



Test Report Number: BTF230807R01001

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

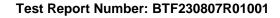
15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement:

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

5.1.1 Conclusion:

The antenna is SMD antenna, the best case gain of the antennas is 1.95dBi, reference to the Internal Photos for details





6 Radio Spectrum Matter Test Results (RF)

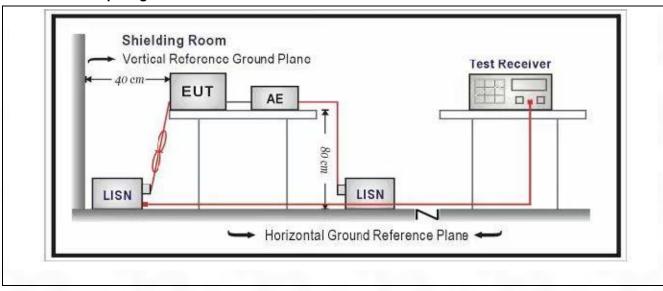
6.1 Conducted Emission at AC power line

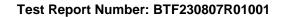
Test Requirement:	Except as shown in paragraphs (but that is designed to be connected to frequency voltage that is conducted or frequencies, within the band 15 the following table, as measured ustabilization network (LISN).	o the public utility (AC) ed back onto the AC por 0 kHz to 30 MHz, shall	power line, the radio wer line on any frequency not exceed the limits in
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
	Frequency of emission (MHz)	Conducted limit (dB	βμV)
		Quasi-peak	Average
Test Limit:	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of t	he frequency.	

6.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.3 °C		
Humidity:	57.7 %		
Atmospheric Pressure:	1010 mbar		

6.1.2 Test Setup Diagram:

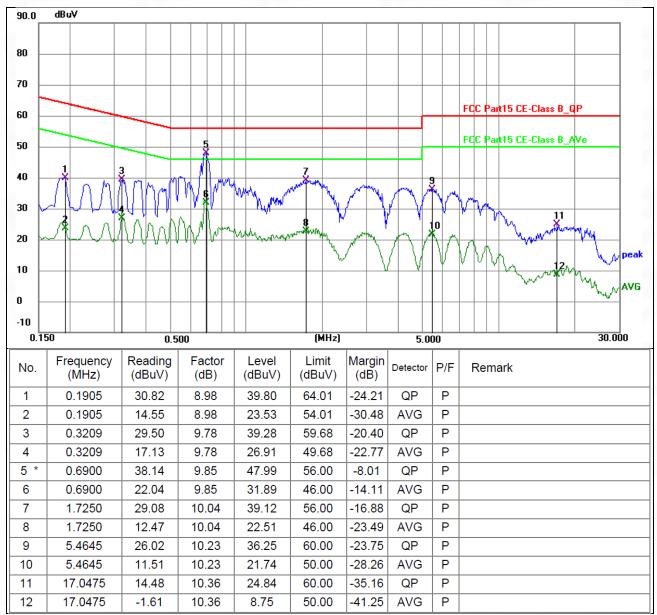






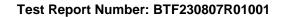
6.1.3 Test Data:

Note: All the mode have been tested, and only the worst case of GFSK 2402MHz mode are in the report TM1 / Line: Line / Band: 2.4G / BW: 1 / CH: L



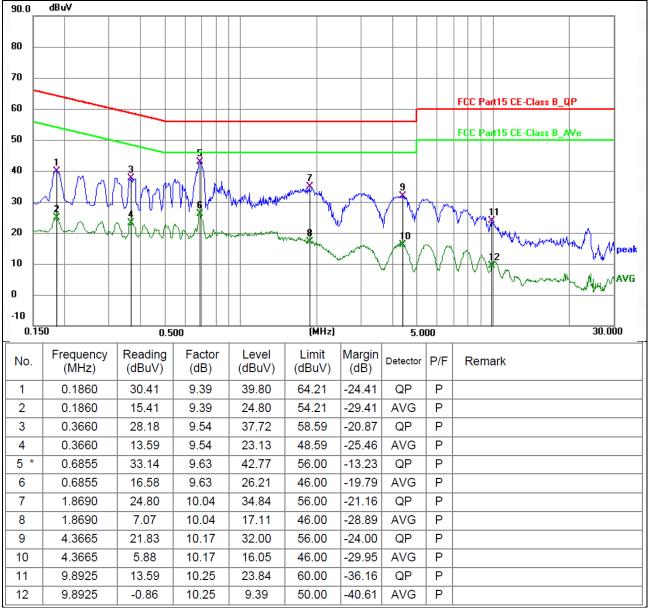
Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.



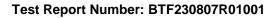






Notes:

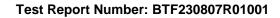
- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.





6.2 Occupied Bandwidth

6.2 Occupied Baild	
Test Requirement:	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.
Test Method:	Occupied bandwidth—relative measurement procedure
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.
	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.
Procedure:	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.
	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.



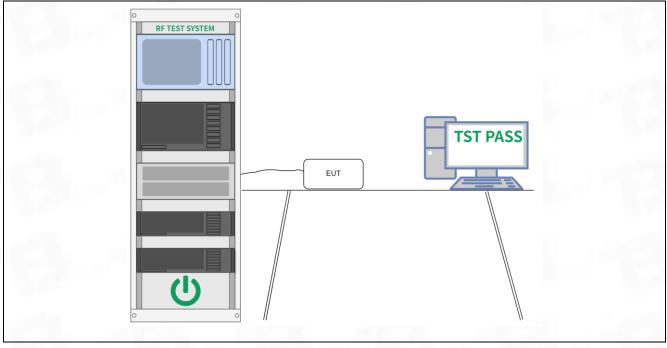


k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly
labeled. Tabular data may be reported in addition to the plot(s).

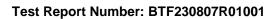
6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	53.6 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:



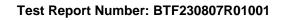


6.3 Maximum Conducted Output Power

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: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	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.

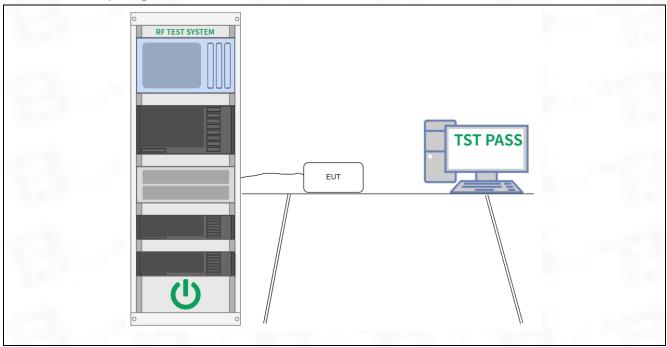
6.3.1 E.U.T. Operation:

Operating Environment:		
Temperature:	24.8 °C	
Humidity:	53.6 %	
Atmospheric Pressure:	1010 mbar	

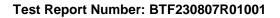




6.3.2 Test Setup Diagram:



6.3.3 Test Data:



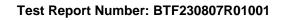


6.4 Channel Separation

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.

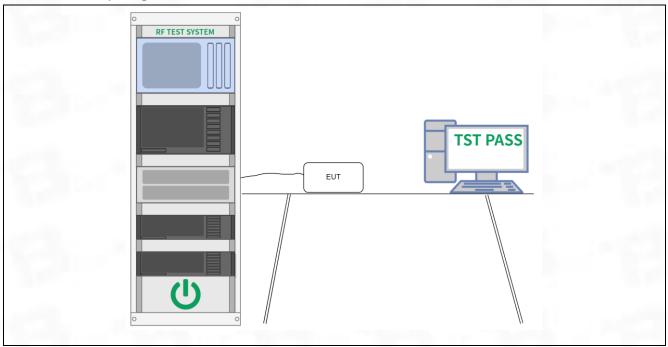
6.4.1 E.U.T. Operation:

Operating Environment:	Operating Environment:						
Temperature:	24.8 °C						
Humidity:	53.6 %						
Atmospheric Pressure:	1010 mbar						

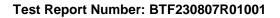




6.4.2 Test Setup Diagram:



6.4.3 Test Data:



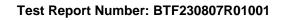


6.5 Number of Hopping Frequencies

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.

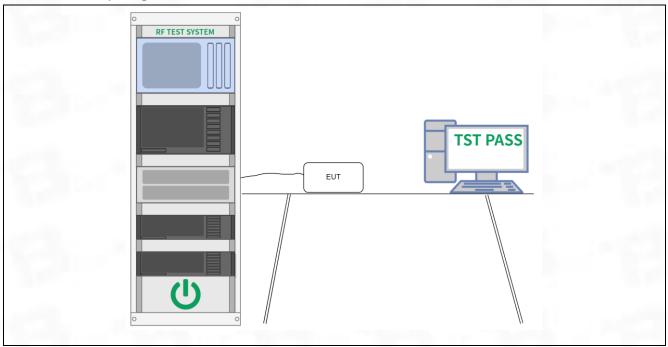
6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.8 °C
Humidity:	53.6 %
Atmospheric Pressure:	1010 mbar

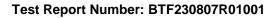




6.5.2 Test Setup Diagram:



6.5.3 Test Data:



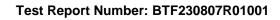


6.6 Dwell Time

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, using the following equation: (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 f

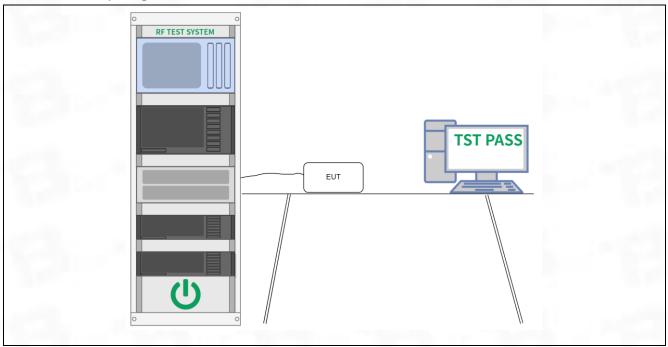
6.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.8 °C		
Humidity:	53.6 %		
Atmospheric Pressure:	1010 mbar		





6.6.2 Test Setup Diagram:



6.6.3 Test Data:



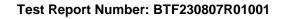


6.7 Emissions in non-restricted frequency bands

Test Requiremen	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.

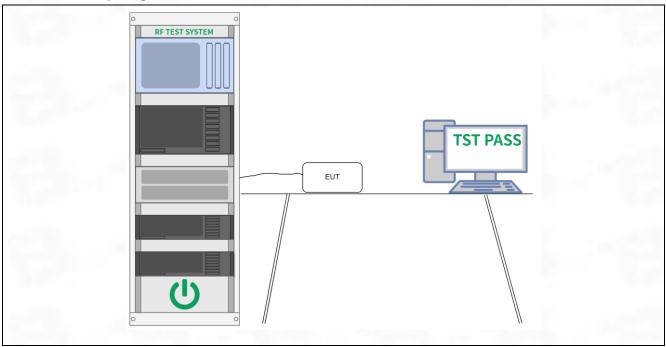
6.7.1 E.U.T. Operation:

Operating Environment:				
Temperature:	24.8 °C			
Humidity:	53.6 %			
Atmospheric Pressure:	1010 mbar			

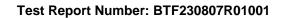




6.7.2 Test Setup Diagram:



6.7.3 Test Data:





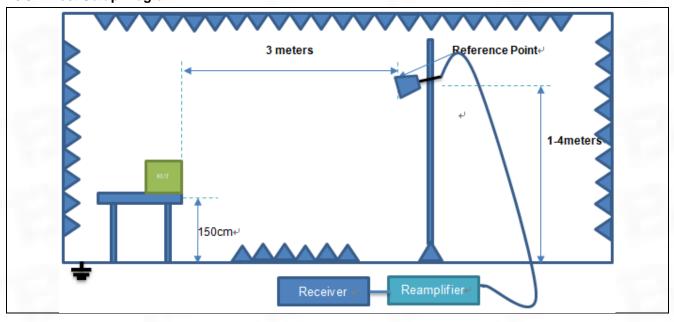
6.8 Band edge emissions (Radiated)

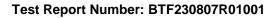
Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).								
Test Method:	Radiated emissions test	Radiated emissions tests							
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)						
	0.009-0.490	2400/F(kHz)	300						
	0.490-1.705	24000/F(kHz)	30						
	1.705-30.0	30	30						
	30-88	100 **	3						
Test Limit:	88-216	150 **	3						
	216-960	200 **	3						
	Above 960	500	3						
	** 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 secti	on 6.6.4							

6.8.1 E.U.T. Operation:

Operating Environment:	Operating Environment:				
Temperature: 25.8 °C					
Humidity:	56.6 %				
Atmospheric Pressure:	1010 mbar				

6.8.2 Test Setup Diagram:







6.8.3 Test Data:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	69.55	-30.59	38.96	74.00	-35.04	peak	Р
2	2390.000	69.15	-30.49	38.66	74.00	-35.34	peak	Р
3	2400.000	72.14	-30.48	41.66	74.00	-32.34	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	70.11	-30.59	39.52	74.00	-34.48	peak	Р
2	2390.000	70.62	-30.49	40.13	74.00	-33.87	peak	Р
3	2400.000	75.86	-30.48	45.38	74.00	-28.62	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	75.96	-30.39	45.57	74.00	-28.43	peak	Р
2	2500.000	72.15	-30.37	41.78	74.00	-32.22	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	72.63	-30.39	42.24	74.00	-31.76	peak	Р
2	2500.000	70.15	-30.37	39.78	74.00	-34.22	peak	Р

Remarks:

- 1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	70.84	-30.59	40.25	74.00	-33.75	peak	Р
2	2390.000	69.01	-30.49	38.52	74.00	-35.48	peak	Р
3	2400.000	74.93	-30.48	44.45	74.00	-29.55	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	68.98	-30.59	38.39	74.00	-35.61	peak	Р
2	2390.000	69.11	-30.49	38.62	74.00	-35.38	peak	Р
3	2400.000	75.75	-30.48	45.27	74.00	-28.73	peak	Р

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

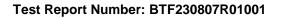
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	72.02	-30.39	41.63	74.00	-32.37	peak	Р
2	2500.000	70.46	-30.37	40.09	74.00	-33.91	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	75.55	-30.39	45.16	74.00	-28.84	peak	Р
2	2500.000	72.91	-30.37	42.54	74.00	-31.46	peak	Р

Remarks:

- 1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



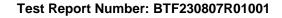


6.9 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`							
Test Method:	Radiated emissions tests							
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
Test Limit:	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	** 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 secti	ANSI C63.10-2013 section 6.6.4						

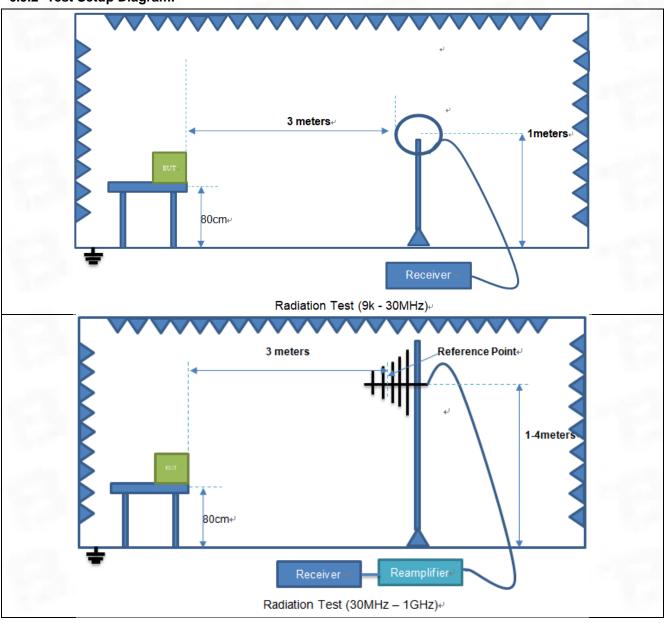
6.9.1 E.U.T. Operation:

Operating Environment:						
Temperature:	25.8 °C					
Humidity:	56.6 %					
Atmospheric Pressure:	1010 mbar					



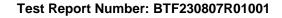


6.9.2 Test Setup Diagram:



6.9.3 Test Data (Between 9KHz - 30 MHz):

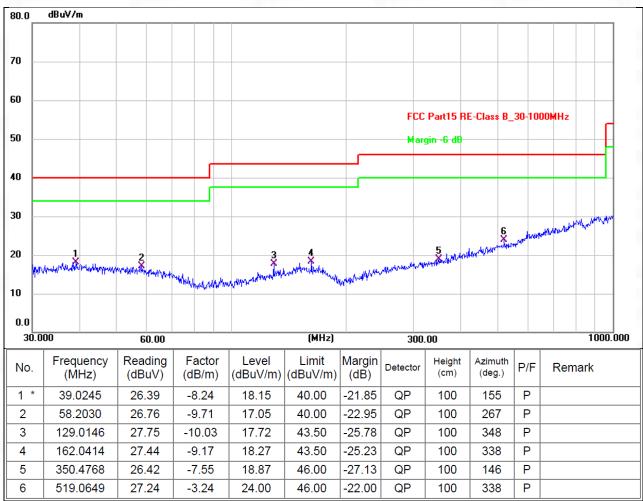
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.





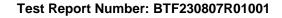
6.9.4 Test Data (Between 30MHz - 1GHz):

Note: All the mode have been tested, and only the worst case of GFSK 2402MHz mode are in the report TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

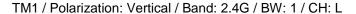


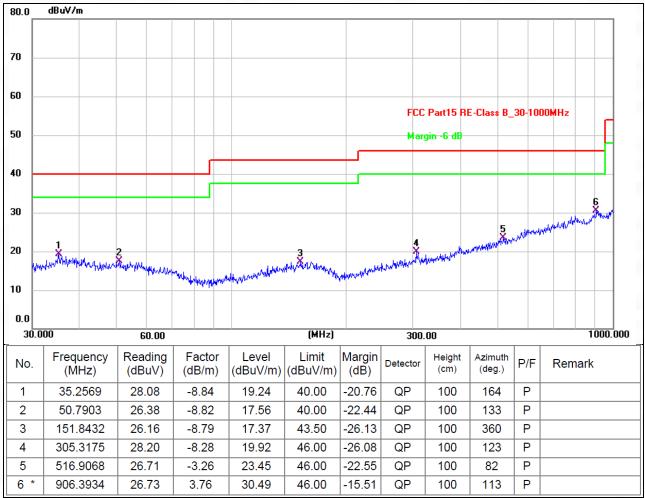
Remarks:

- 1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



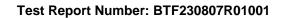






Remarks:

- 1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





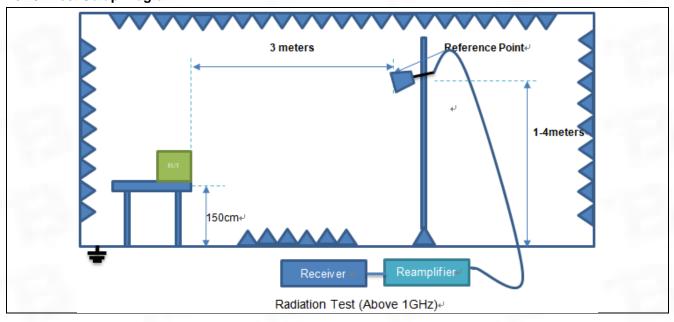
6.10 Emissions in restricted frequency bands (above 1GHz)

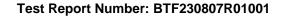
Test Requirement:	15.205(a), must also cor	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`								
Test Method:	Radiated emissions test	Radiated emissions tests								
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)							
	0.009-0.490	2400/F(kHz)	300							
	0.490-1.705	24000/F(kHz)	30							
	1.705-30.0	30	30							
	30-88 100 ** 3									
Test Limit:	88-216	150 **	3							
	216-960	200 **	3							
	Above 960	500	3							
	** 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 secti	on 6.6.4								

6.10.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.8 °C
Humidity:	56.6 %
Atmospheric Pressure:	1010 mbar

6.10.2Test Setup Diagram:







6.10.3Test Data:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4804.000	86.27	-27.92	58.35	74.00	-15.65	peak	Р
2	4804.000	72.25	-27.92	44.33	54.00	-9.67	AVG	Р
3	7206.000	76.73	-24.85	51.88	74.00	-22.12	peak	Р
4	9608.000	76.52	-23.49	53.03	74.00	-20.97	peak	Р
5	12010.000	74.73	-22.16	52.57	74.00	-21.43	peak	Р

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

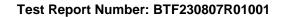
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4804.000	87.14	-27.92	59.22	74.00	-14.78	peak	Р
2	4804.000	73.90	-27.92	45.98	54.00	-8.02	AVG	Р
3	7206.000	76.04	-24.85	51.19	74.00	-22.81	peak	Р
4	9608.000	76.02	-23.49	52.53	74.00	-21.47	peak	Р
5	12010.000	73.67	-22.16	51.51	74.00	-22.49	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4882.000	86.19	-27.66	58.53	74.00	-15.47	peak	Р
2	4882.000	72.98	-27.66	45.32	54.00	-8.68	AVG	Р
3	7323.000	76.22	-24.83	51.39	74.00	-22.61	peak	Р
4	9764.000	75.31	-24.11	51.20	74.00	-22.80	peak	Р
5	12205.000	73.14	-22.20	50.94	74.00	-23.06	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4882.000	85.86	-27.66	58.20	74.00	-15.80	peak	Р
2	4882.000	72.26	-27.66	44.60	54.00	-9.40	AVG	Р
3	7323.000	75.10	-24.83	50.27	74.00	-23.73	peak	Р
4	9764.000	76.51	-24.11	52.40	74.00	-21.60	peak	Р
5	12205.000	72.26	-22.20	50.06	74.00	-23.94	peak	Р





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

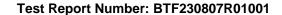
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4960.000	87.85	-27.41	60.44	74.00	-13.56	peak	Р
2	4960.000	71.54	-27.41	44.13	54.00	-9.87	AVG	Р
3	7440.000	76.51	-24.79	51.72	74.00	-22.28	peak	Р
4	9920.000	75.49	-23.95	51.54	74.00	-22.46	peak	Р
5	12400.000	73.55	-21.71	51.84	74.00	-22.16	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4960.000	86.44	-27.41	59.03	74.00	-14.97	peak	Р
2	4960.000	72.97	-27.41	45.56	54.00	-8.44	AVG	Р
3	7440.000	74.68	-24.79	49.89	74.00	-24.11	peak	Р
4	9920.000	76.13	-23.95	52.18	74.00	-21.82	peak	Р
5	12400.000	72.43	-21.71	50.72	74.00	-23.28	peak	Р

Remarks:

- 1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.





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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4804.000	86.92	-27.92	59.00	74.00	-15.00	peak	Р
2	4804.000	72.65	-27.92	44.73	54.00	-9.27	AVG	Р
3	7206.000	76.67	-24.85	51.82	74.00	-22.18	peak	Р
4	9608.000	76.50	-23.49	53.01	74.00	-20.99	peak	Р
5	12010.000	73.48	-22.16	51.32	74.00	-22.68	peak	Р

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

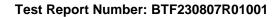
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4804.000	85.86	-27.92	57.94	74.00	-16.06	peak	Р
2	4804.000	74.98	-27.92	47.06	54.00	-6.94	AVG	Р
3	7206.000	76.23	-24.85	51.38	74.00	-22.62	peak	Р
4	9608.000	77.00	-23.49	53.51	74.00	-20.49	peak	Р
5	12010.000	74.02	-22.16	51.86	74.00	-22.14	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4882.000	86.95	-27.66	59.29	74.00	-14.71	peak	Р
2	4882.000	71.69	-27.66	44.03	54.00	-9.97	AVG	Р
3	7323.000	74.70	-24.83	49.87	74.00	-24.13	peak	Р
4	9764.000	75.74	-24.11	51.63	74.00	-22.37	peak	Р
5	12205.000	73.08	-22.20	50.88	74.00	-23.12	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4882.000	85.00	-27.66	57.34	74.00	-16.66	peak	Р
2	4882.000	69.94	-27.66	42.28	54.00	-11.72	AVG	Р
3	7323.000	75.06	-24.83	50.23	74.00	-23.77	peak	Р
4	9764.000	76.25	-24.11	52.14	74.00	-21.86	peak	Р
5	12205.000	72.23	-22.20	50.03	74.00	-23.97	peak	Р





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

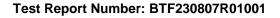
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4960.000	86.51	-27.41	59.10	74.00	-14.90	peak	Р
2	4960.000	68.77	-27.41	41.36	54.00	-12.64	AVG	Р
3	7440.000	76.91	-24.79	52.12	74.00	-21.88	peak	Р
4	9920.000	74.99	-23.95	51.04	74.00	-22.96	peak	Р
5	12400.000	73.00	-21.71	51.29	74.00	-22.71	peak	Р

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4960.000	84.08	-27.41	56.67	74.00	-17.33	peak	Р
2	4960.000	70.63	-27.41	43.22	54.00	-10.78	AVG	Р
3	7440.000	74.82	-24.79	50.03	74.00	-23.97	peak	Р
4	9920.000	76.48	-23.95	52.53	74.00	-21.47	peak	Р
5	12400.000	73.14	-21.71	51.43	74.00	-22.57	peak	Р

Remarks:

- 1. Mesurement Level = Reading level + Correct Factor, Margin = Mesurement Level Limit.
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



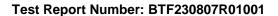


7 Test Setup Photos

Reference to the appendix Test Setup Photos for details.

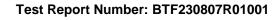
EUT Constructional Details (EUT Photos) 8

Reference to the appendix External Photos and Internal Photos for details.





Appendix



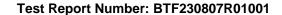


1. Bandwidth

1.1 OBW

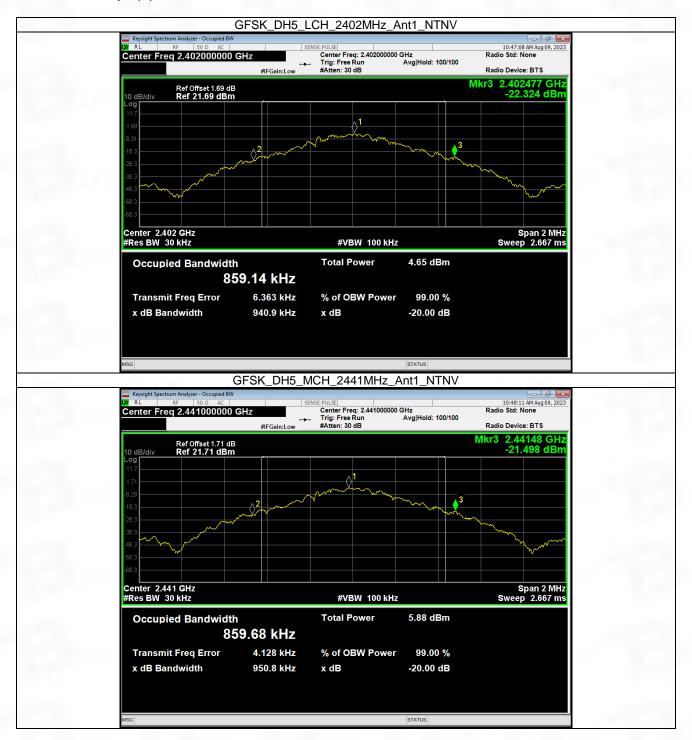
1.1.1 Test Result(L)

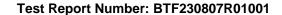
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz) Result	99% Occupied Bandwidth (MHz) Result	Verdict	
		2402	DH5	1	0.9409	0.85914	Pass	
GFSK	SISO	2441	DH5	1	0.9508	0.85968	Pass	
			2480	DH5	1	0.9406	0.85885	Pass
		2402	2DH5	1	1.273	1.1857	Pass	
Pi/4DQPSK	SISO	2441	2DH5	1	1.304	1.1816	Pass	
		2480	2DH5	1	1.328	1.1964	Pass	



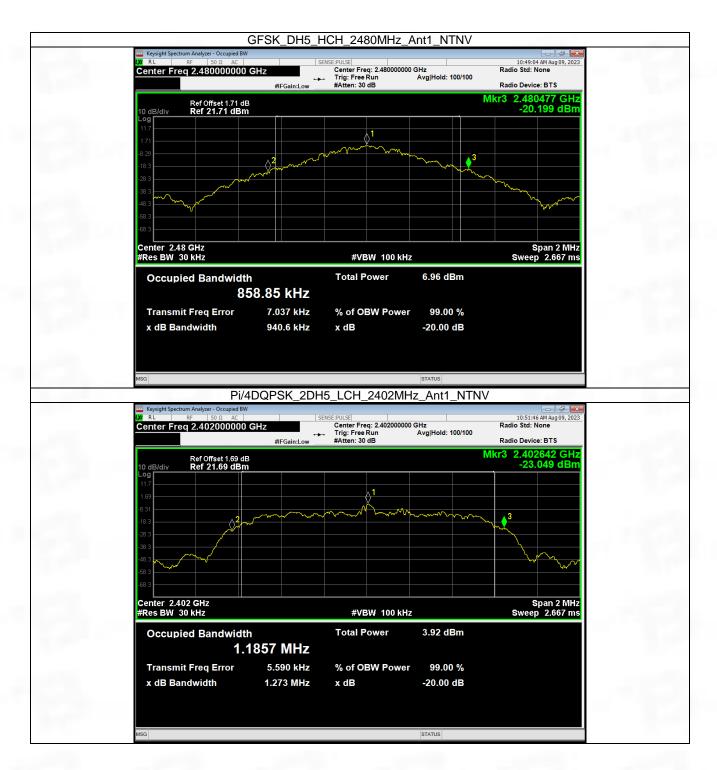


1.1.2 Test Graph(L)



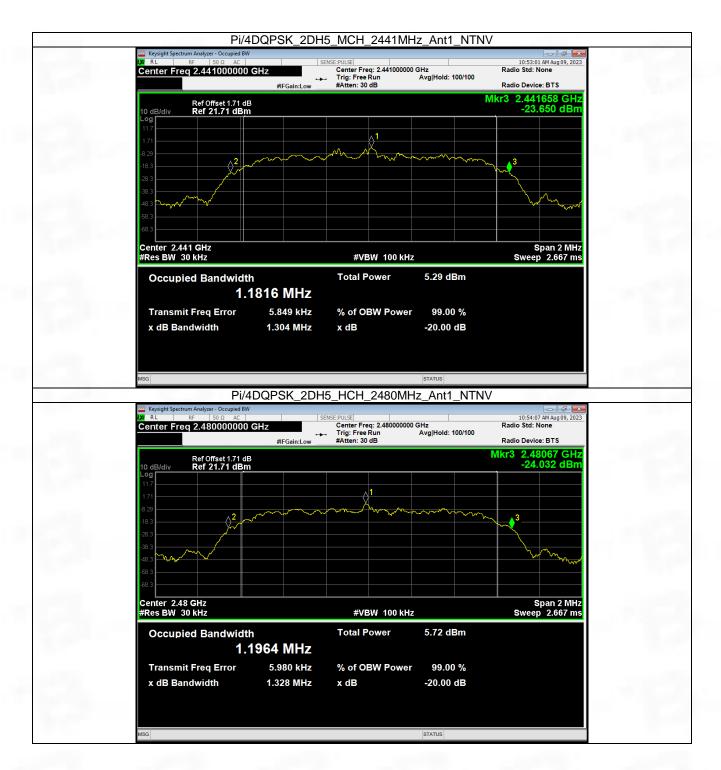


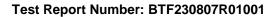














1.1.3 Test Result(R)

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	. 71	(,	. 71		Result	Result	
		2402	DH5	1	0.945	0.86496	Pass
GFSK	SISO	2441	DH5	1	0.9362	0.85435	Pass
		2480	DH5	1	0.9398	0.85446	Pass
		2402	2DH5	1	1.28	1.1929	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.272	1.1858	Pass
		2480	2DH5	1	1.275	1.1828	Pass



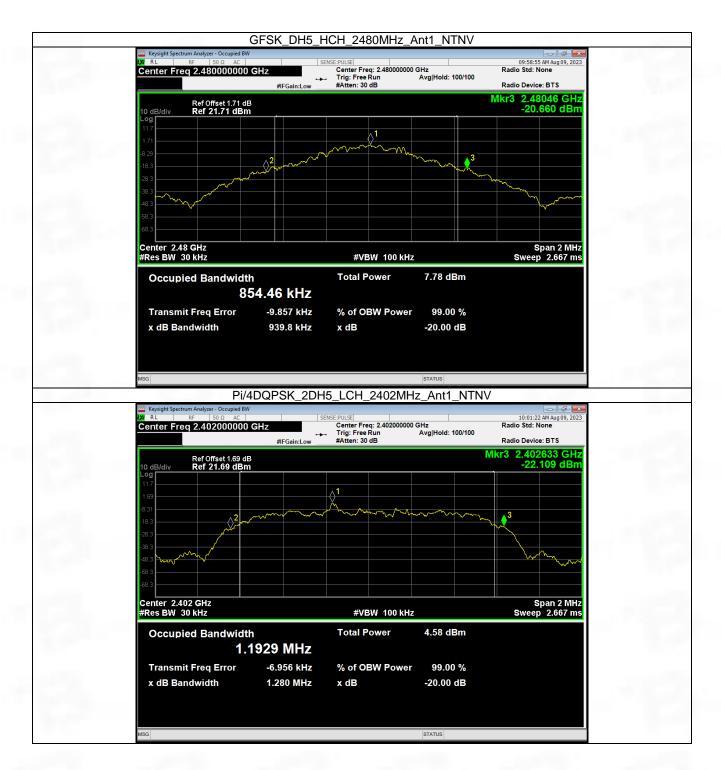


1.1.4 Test Graph(R)



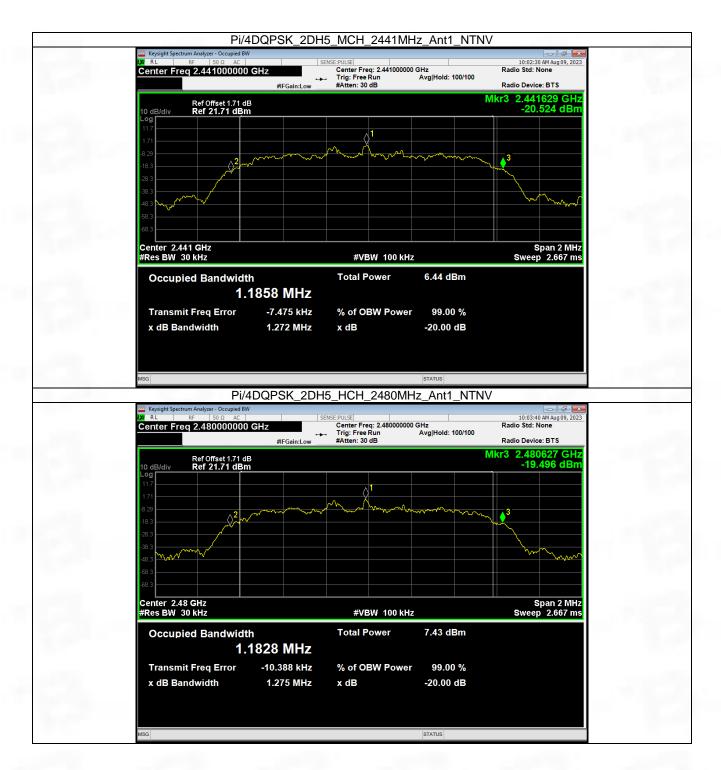












Test Report Number: BTF230807R01001



2. Maximum Conducted Output Power

2.1 Power

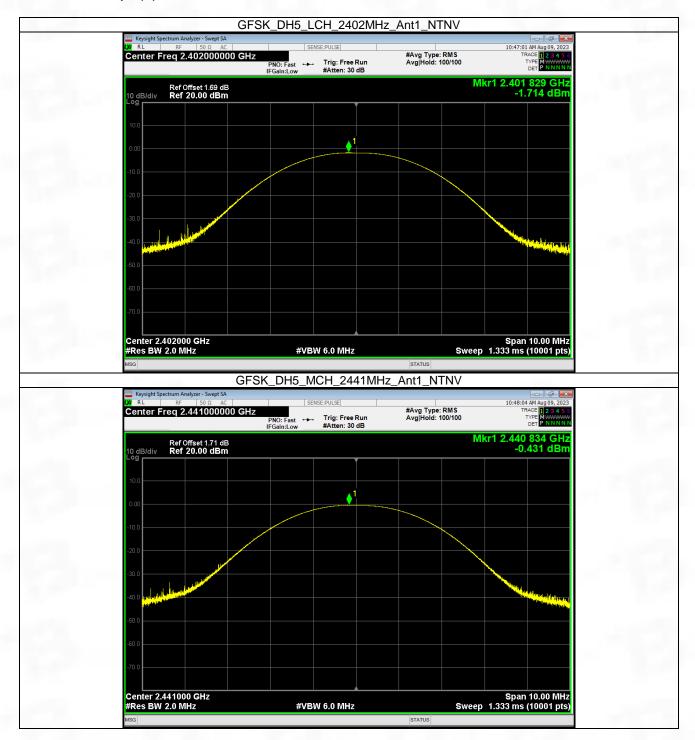
2.1.1 Test Result(L)

TX	Frequency	Packet	Maximum Peak Conduct	Verdict				
Type	(MHz)	Type	ANT1	Limit	verdict			
	2402	DH5	-1.71	<=20.97	Pass			
SISO	2441	DH5	-0.43	<=20.97	Pass			
	2480	DH5	0.61	<=20.97	Pass			
	2402	2DH5	-0.82	<=20.97	Pass			
SISO	2441	2DH5	0.5	<=20.97	Pass			
	2480	2DH5	1.54	<=20.97	Pass			
Note1: Antenna Gain: Ant1: 1.95dBi;								
	Type SISO SISO	Type (MHz) 2402 SISO 2441 2480 SISO 2441 2480	Type (MHz) Type 2402 DH5 SISO 2441 DH5 2480 DH5 2402 2DH5 SISO 2441 2DH5 2480 2DH5 2480 2DH5	Type (MHz) Type ANT1 2402 DH5 -1.71 SISO 2441 DH5 -0.43 2480 DH5 0.61 2402 2DH5 -0.82 SISO 2441 2DH5 0.5 2480 2DH5 1.54	Type (MHz) Type ANT1 Limit 2402 DH5 -1.71 <=20.97			



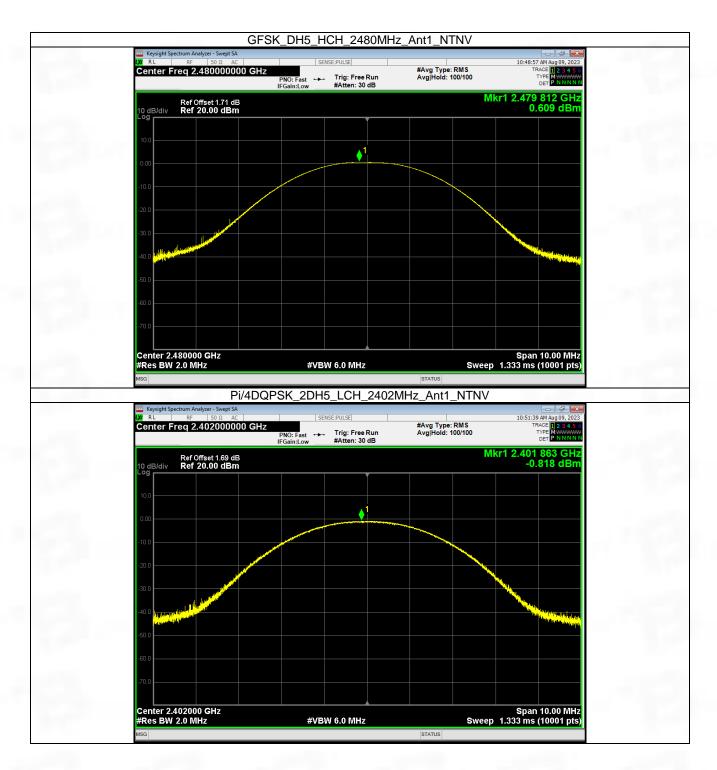


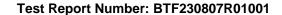
2.1.2 Test Graph(L)



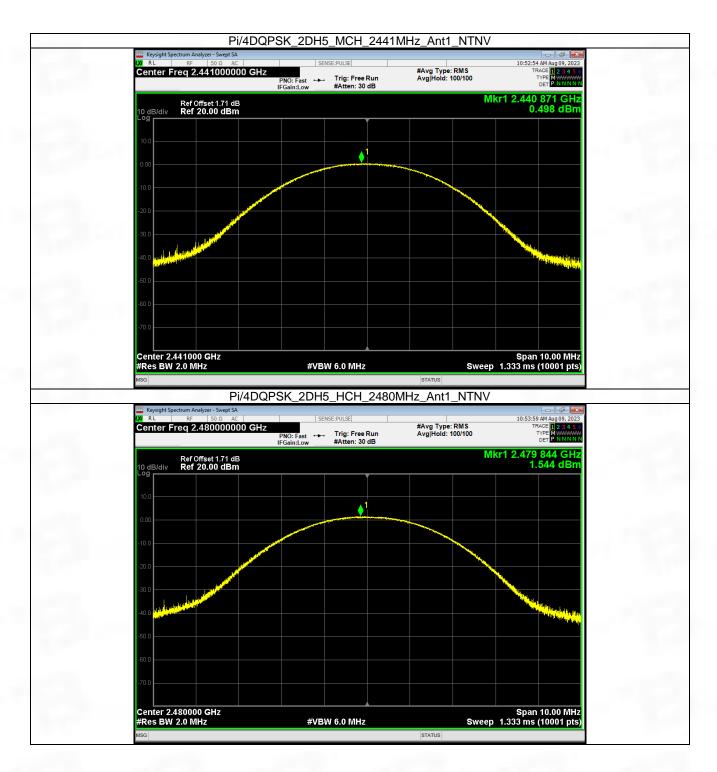


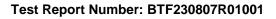














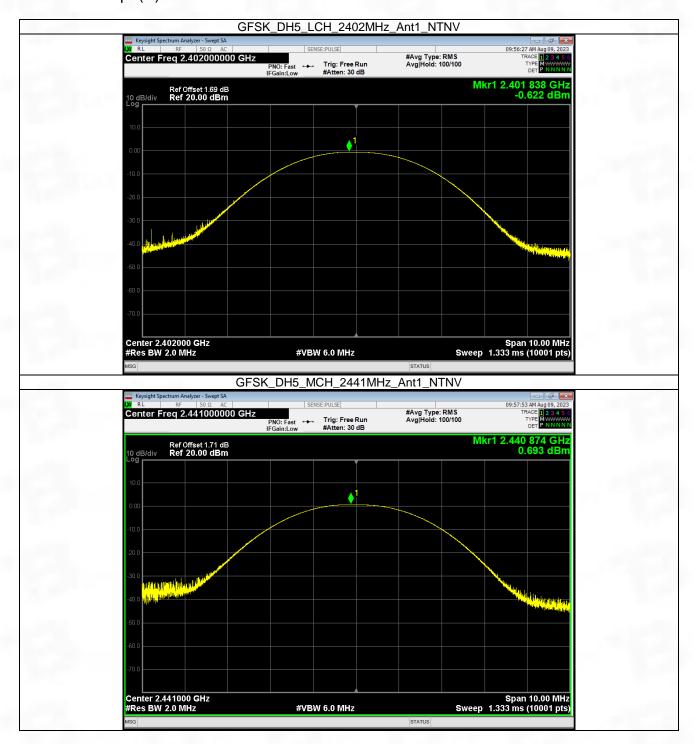
2.1.3 Test Result(R)

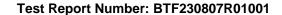
Mode	TX	Frequency	Packet	Maximum Peak Conduc	ted Output Power (dBm)	Verdict
Mode	Туре	(MHz)	Type	ANT1	Limit	
		2402	DH5	-0.62	<=20.97	Pass
GFSK	SISO	2441	DH5	0.69	<=20.97	Pass
		2480	DH5	1.38	<=20.97	Pass
		2402	2DH5	0.2	<=20.97	Pass
Pi/4DQPSK	SISO	2441	2DH5	1.52	<=20.97	Pass
		2480	2DH5	2.57	<=20.97	Pass
Note1: Antenn	a Gain: An	t1: 1.95dBi;				



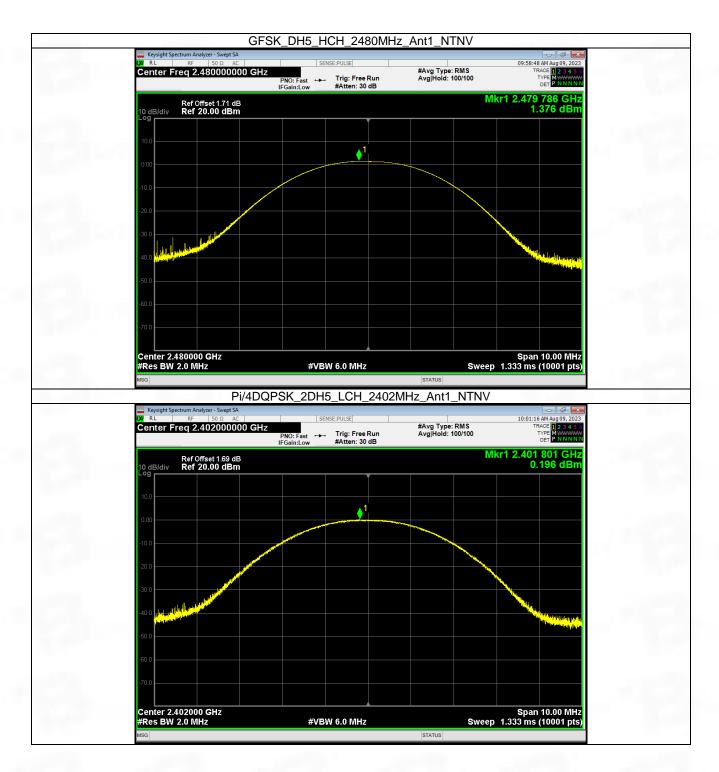


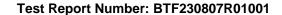
2.1.4 Test Graph(R)



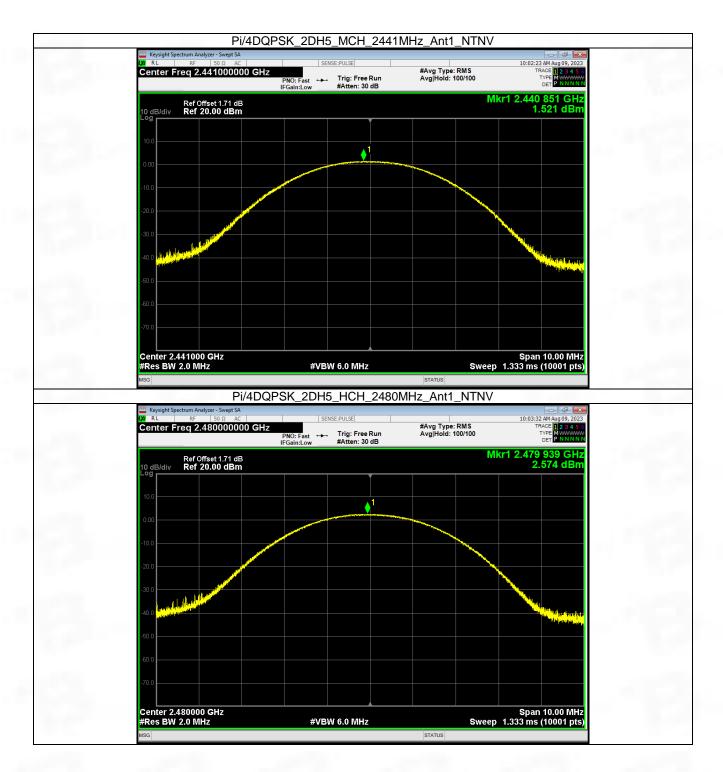


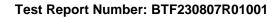














3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result(L)

				Ant1			
Mode	TX	Frequency	Packet	Channel Separation	20dB Bandwidth	Limit	Verdict
Mode	Type	(MHz)	Type	(MHz)	(MHz)	(MHz)	Verdict
GFSK	SISO	2402	DH5	1.002	0.9409	>=0.627	Pass
GFSK	SISO	2441	DH5	1.006	0.9508	>=0.634	Pass
GFSK	SISO	2480	DH5	0.996	0.9406	>=0.627	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.004	1.273	>=0.849	Pass
Pi/4DQPSK	SISO	2441	2DH5	1.004	1.304	>=0.869	Pass
Pi/4DQPSK	SISO	2480	2DH5	0.996	1.328	>=0.885	Pass



3.1.2 Test Graph(L)



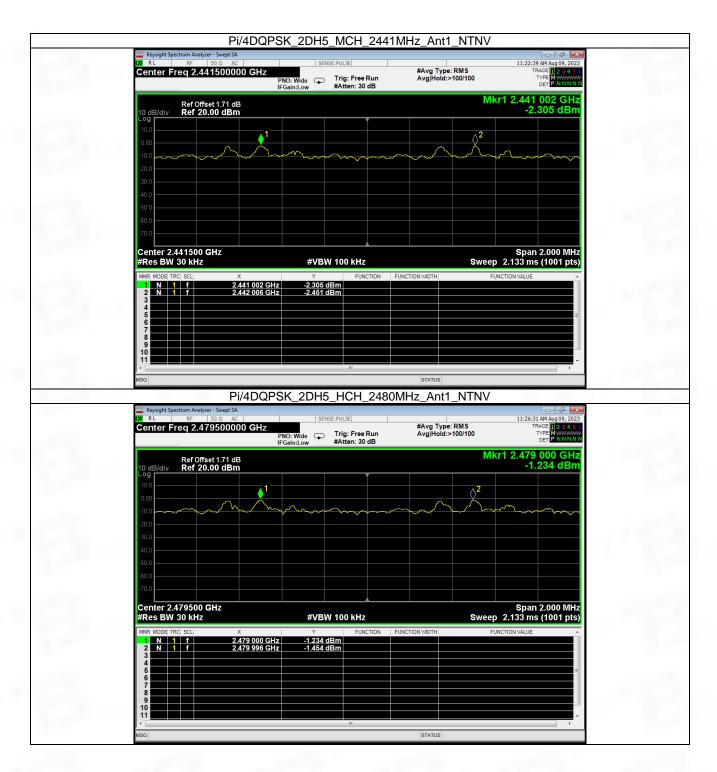


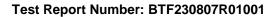












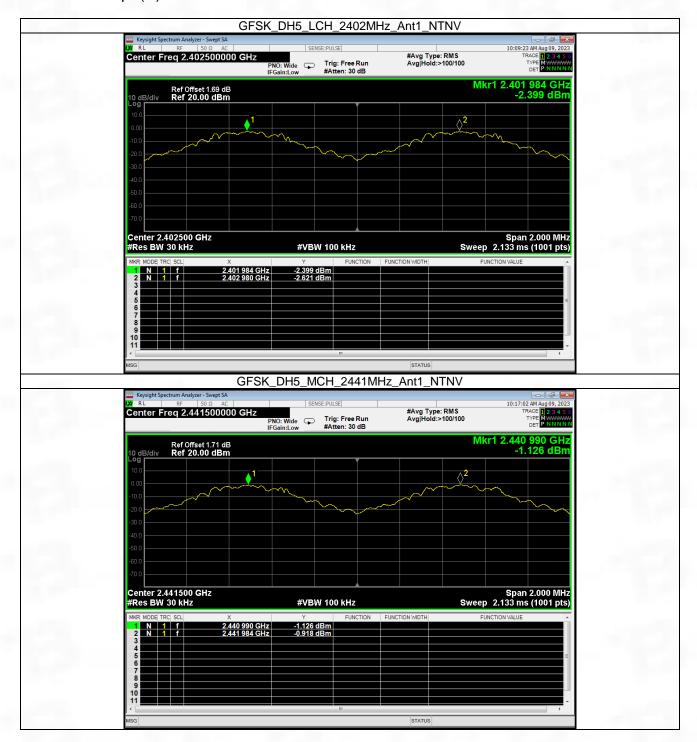


3.1.3 Test Result(R)

				Ant1			
Mada	TX	Frequency	Packet	Channel Separation	20dB Bandwidth	Limit	Vardiet
Mode	Type	(MHz)	Type	(MHz)	(MHz)	(MHz)	Verdict
GFSK	SISO	2402	DH5	0.996	0.945	>=0.63	Pass
GFSK	SISO	2441	DH5	0.994	0.9362	>=0.624	Pass
GFSK	SISO	2480	DH5	1	0.9398	>=0.627	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.28	>=0.853	Pass
Pi/4DQPSK	SISO	2441	2DH5	1.002	1.272	>=0.848	Pass
Pi/4DQPSK	SISO	2480	2DH5	1.004	1.275	>=0.85	Pass

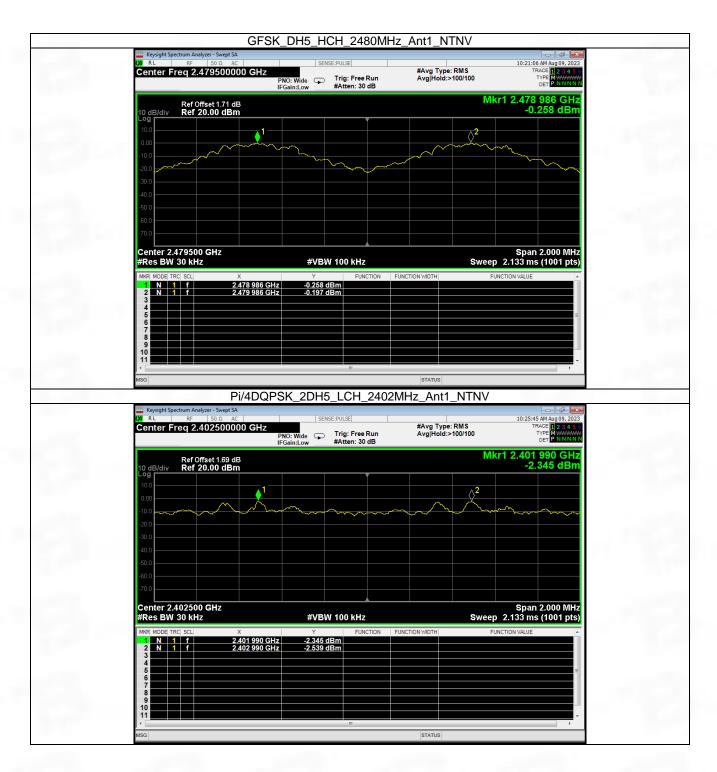


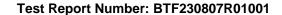
3.1.4 Test Graph(R)















Test Report Number: BTF230807R01001



4. Number of Hopping Frequencies

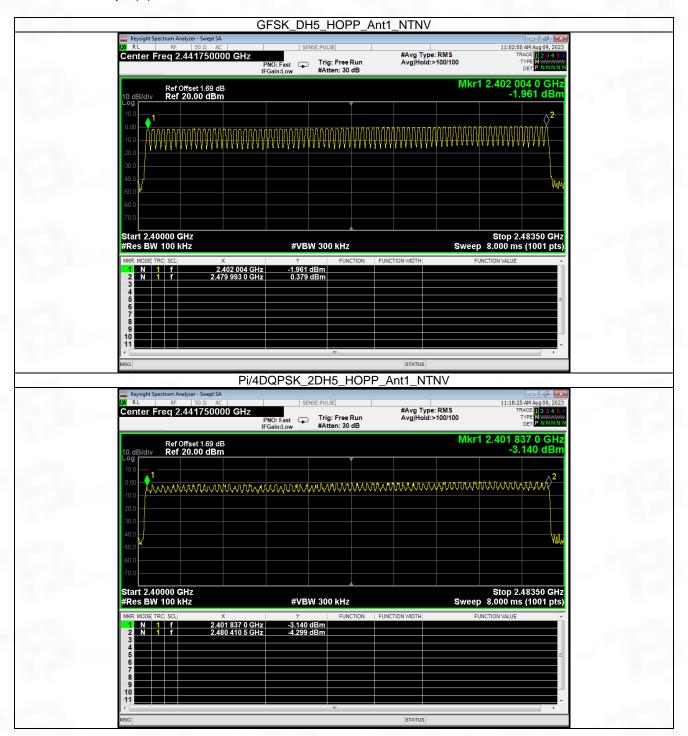
4.1 HoppNum

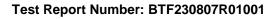
4.1.1 Test Result(L)

Mode	TX	Frequency	Packet	Num of Hoppir	ng Frequencies	Verdict
iviode	Type	(MHz)	Type	ANT1	Limit	verdict
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass



4.1.2 Test Graph(L)





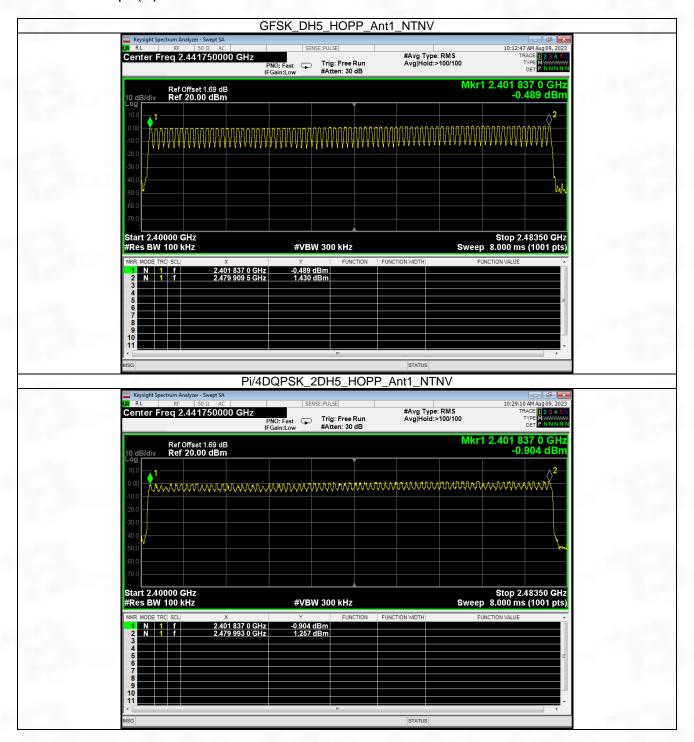


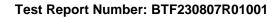
4.1.3 Test Result(R)

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



4.1.4 Test Graph(R)







5. Time of Occupancy (Dwell Time)

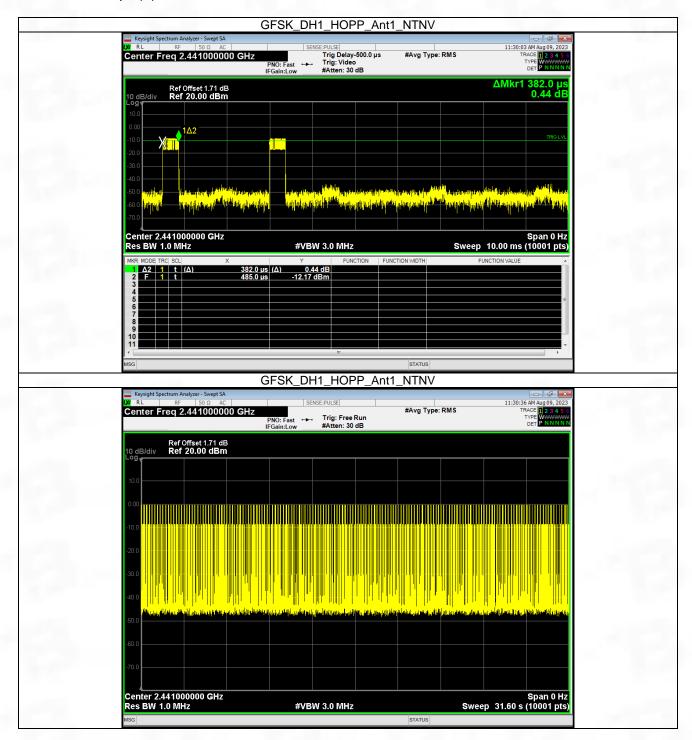
5.1 Ant1

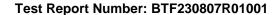
5.1.1 Test Result(L)

Ant1										
Mode	TX	TX Frequency		Duration of	Observation	Num of Pulse in	Dwell	Limit	Verdict	
Mode	Type	(MHz)	Type	Single Pulse (ms)	Period (s)	Observation Period	Time (ms)	(ms)	verdict	
			DH1	0.382	31.600	316	120.712	<=400	Pass	
GFSK	SISO	O HOPP	DH3	1.639	31.600	157	257.323	<=400	Pass	
			DH5	2.887	31.600	108	311.796	<=400	Pass	
			2DH1	0.391	31.600	318	124.338	<=400	Pass	
Pi/4DQPSK	SISO	SISO HOPP	2DH3	1.644	31.600	162	266.328	<=400	Pass	
					2DH5	2.892	31.600	106	306.552	<=400

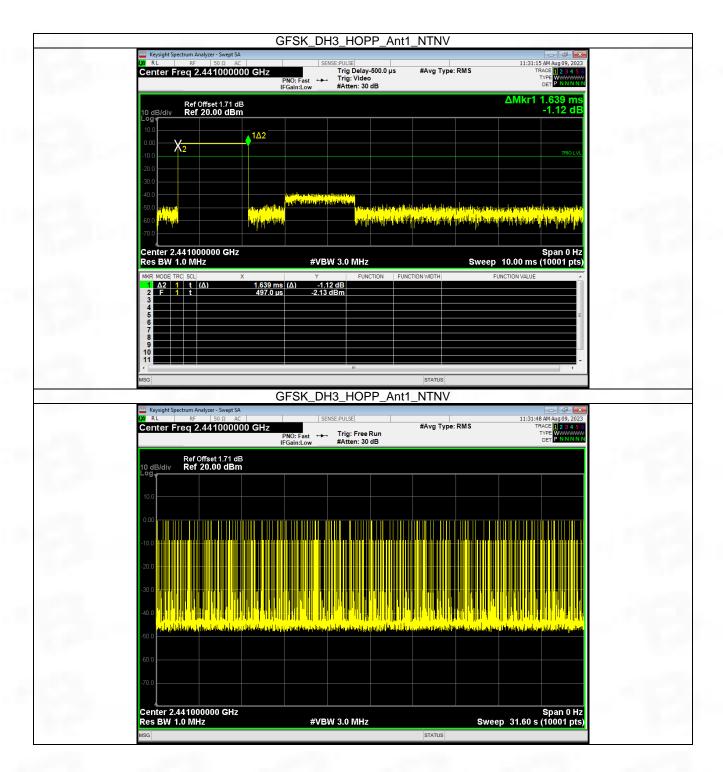


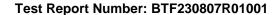
5.1.2 Test Graph(L)



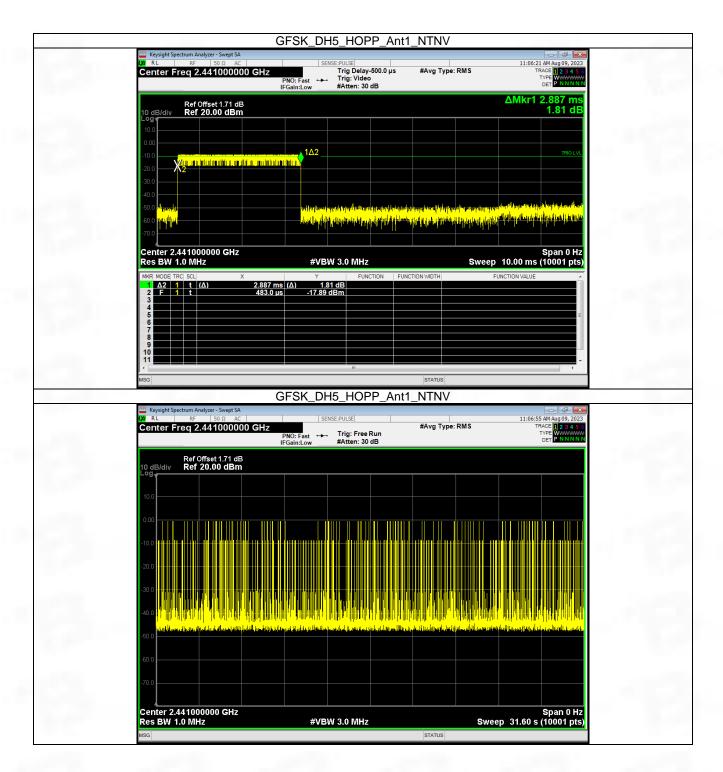


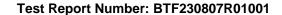




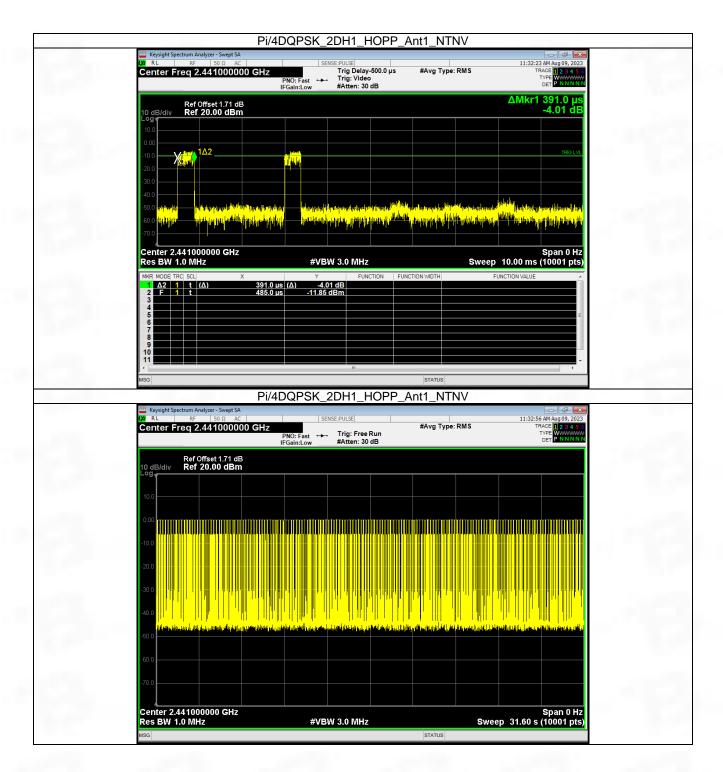






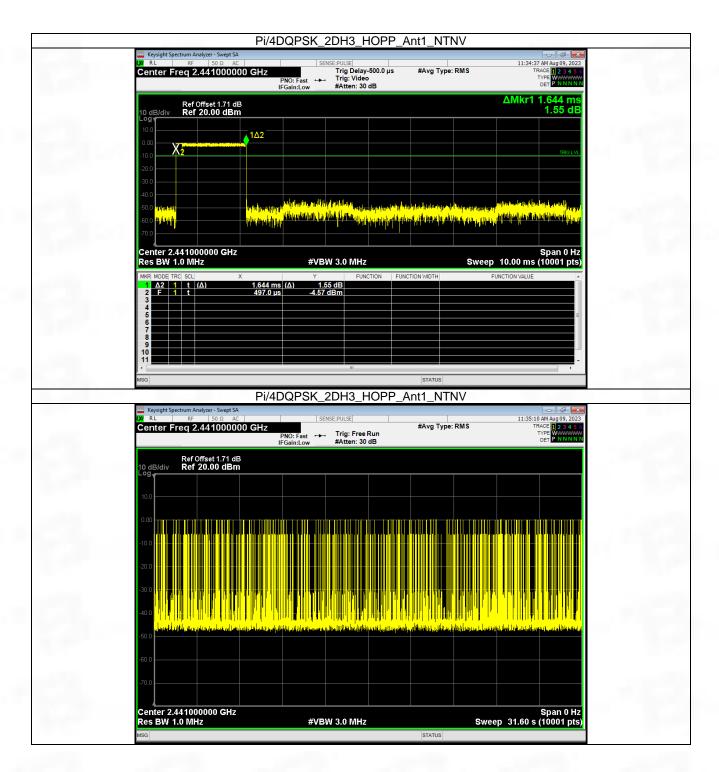


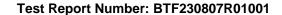




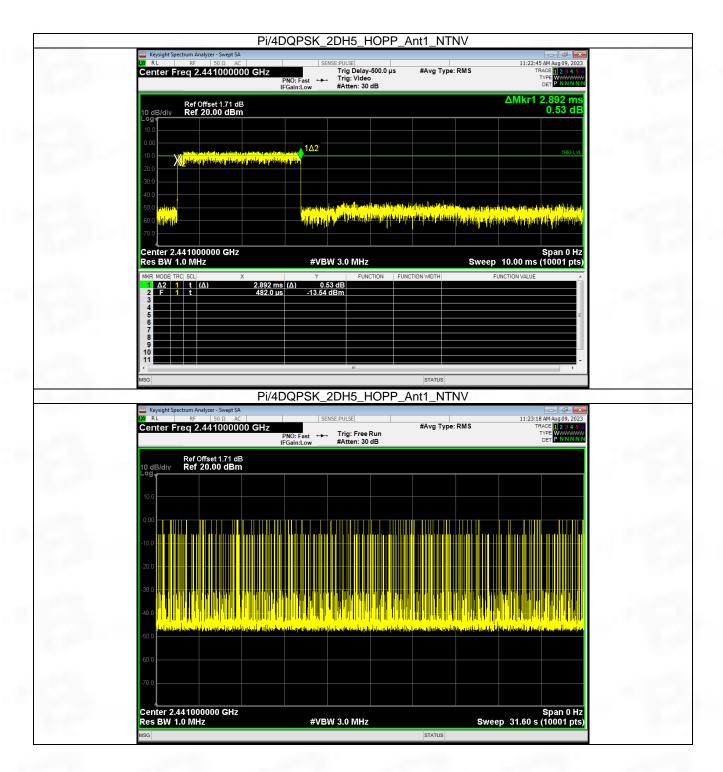


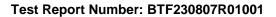














5.1.3 Test Result(R)

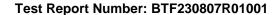
D = 14									
Ant1									
Mode	TX	Frequency	Packet	Duration of	Observation	Num of Pulse in	Dwell	Limit	Verdict
Mode	Type	(MHz)	Type	Single Pulse (ms)	Period (s)	Observation Period	Time (ms)	(ms)	verdict
			DH1	0.383	31.600	319	122.177	<=400	Pass
GFSK	SISO	HOPP	DH3	1.638	31.600	161	263.718	<=400	Pass
			DH5	2.887	31.600	101	291.587	<=400	Pass
			2DH1	0.392	31.600	316	123.872	<=400	Pass
Pi/4DQPSK	SISO	SISO HOPP	2DH3	1.644	31.600	153	251.532	<=400	Pass
			2DH5	2.892	31.600	96	277.632	<=400	Pass



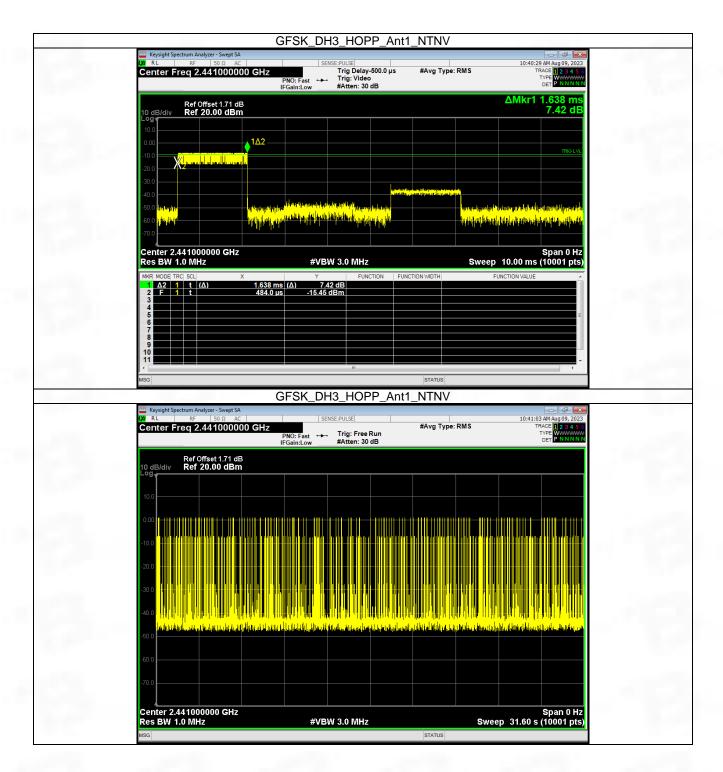


5.1.4 Test Graph(R)



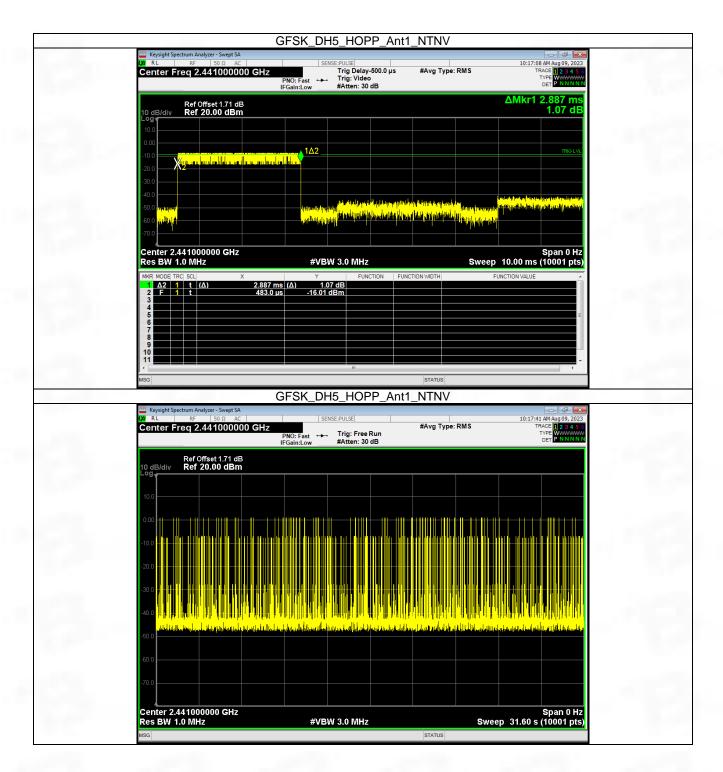






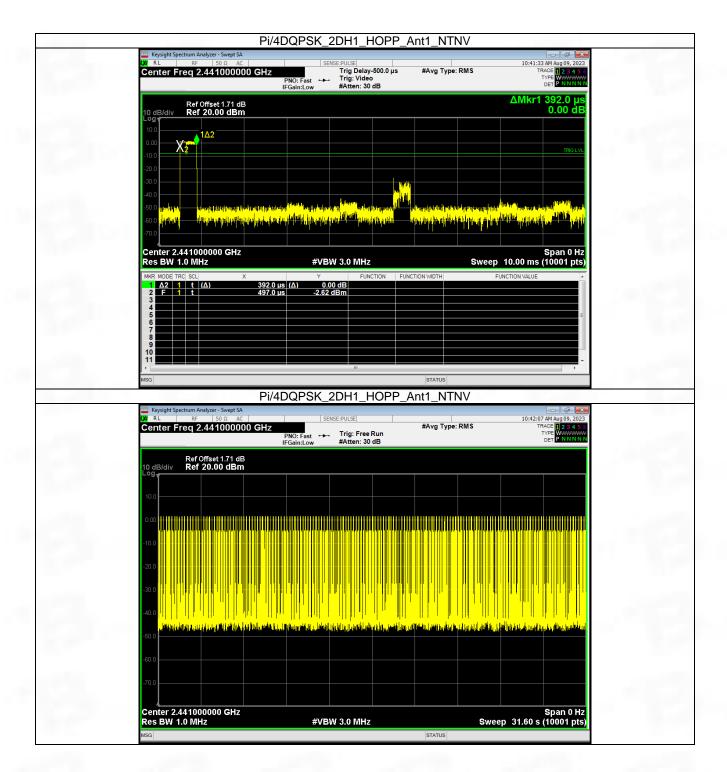


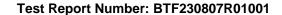




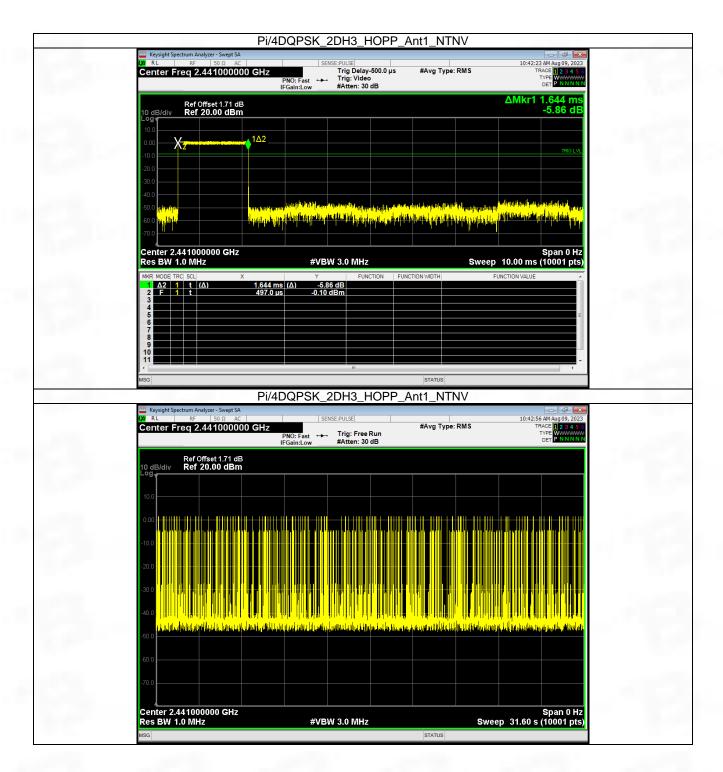






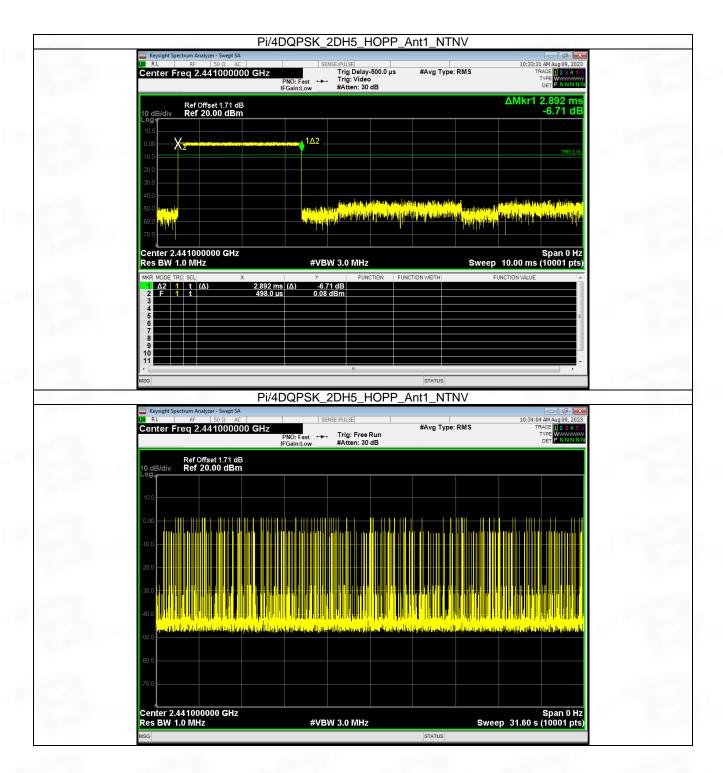


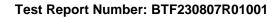














6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result(L)

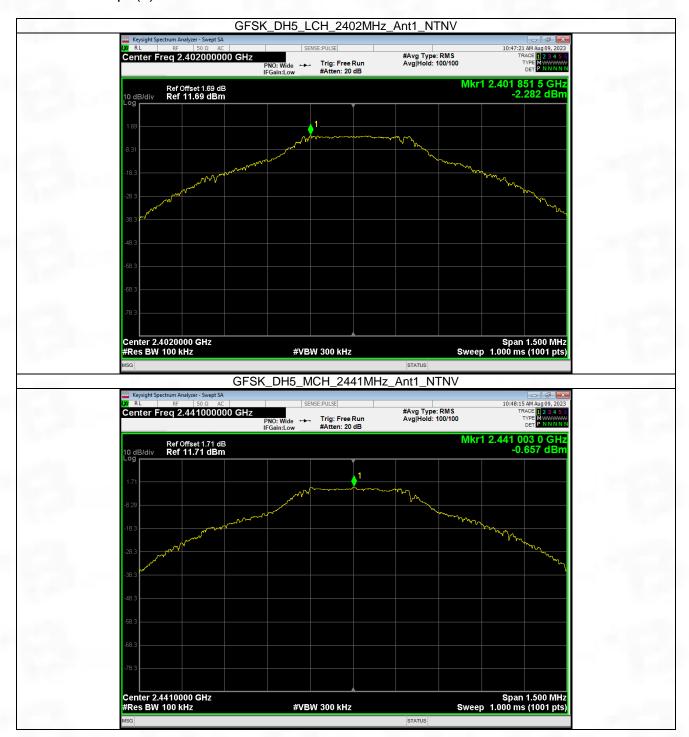
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	-2.28
GFSK	SISO	2441	DH5	1	-0.66
		2480	DH5	1	0.31
		2402	2DH5	1	-1.81
Pi/4DQPSK	SISO	2441	2DH5	1	-1.12
		2480	2DH5	1	0.38

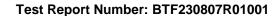
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.





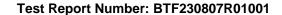
6.1.2 Test Graph(L)



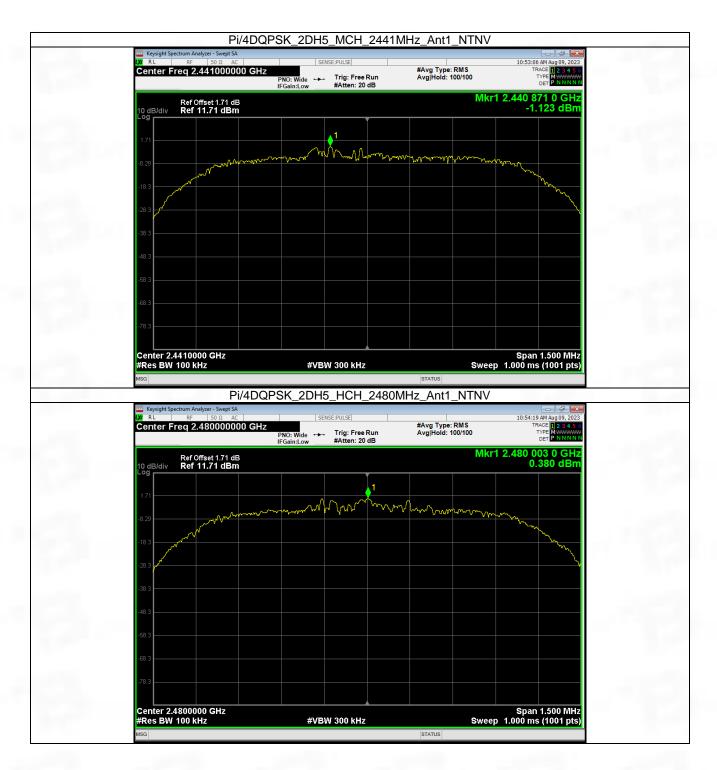


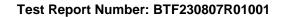














6.1.3 Test Result(R)

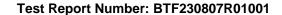
TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
	2402	DH5	1	-0.99
SISO	2441	DH5	1	0.49
	2480	DH5	1	1.05
SISO	2402	2DH5	1	-0.86
	2441	2DH5	1	0.97
	2480	2DH5	1	1.54
	Type SISO	Type (MHz) 2402 SISO 2441 2480 2402 SISO 2441	Type (MHz) Type 2402 DH5 SISO 2441 DH5 2480 DH5 2402 2DH5 SISO 2441 2DH5	Type (MHz) Type AN1 2402 DH5 1 SISO 2441 DH5 1 2480 DH5 1 2402 2DH5 1 SISO 2441 2DH5 1

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.

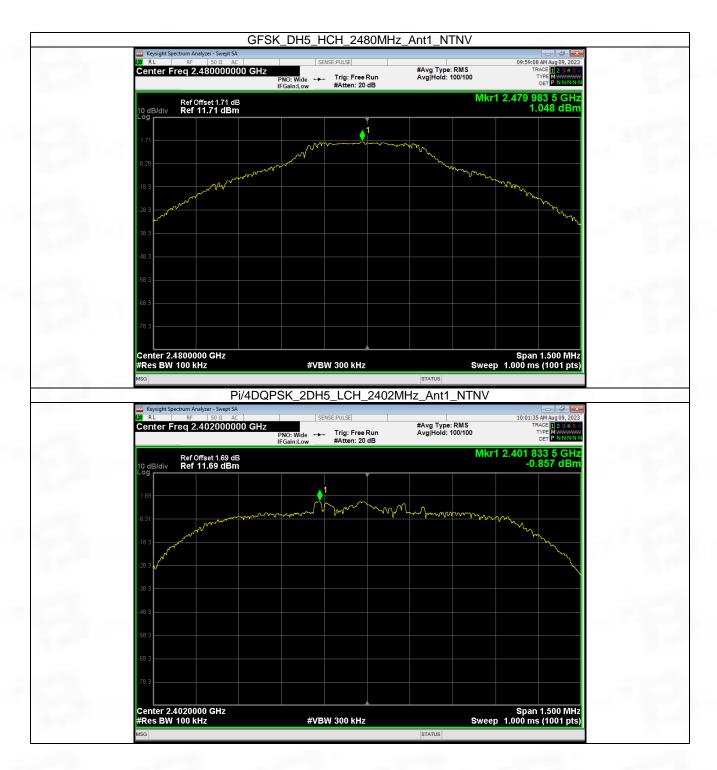


6.1.4 Test Graph(R)



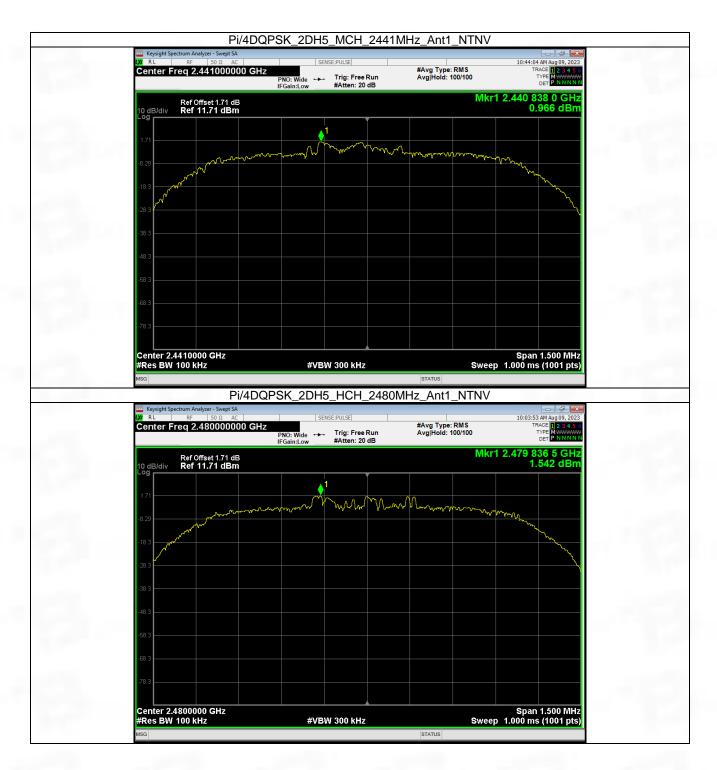


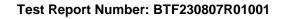














6.2 CSE

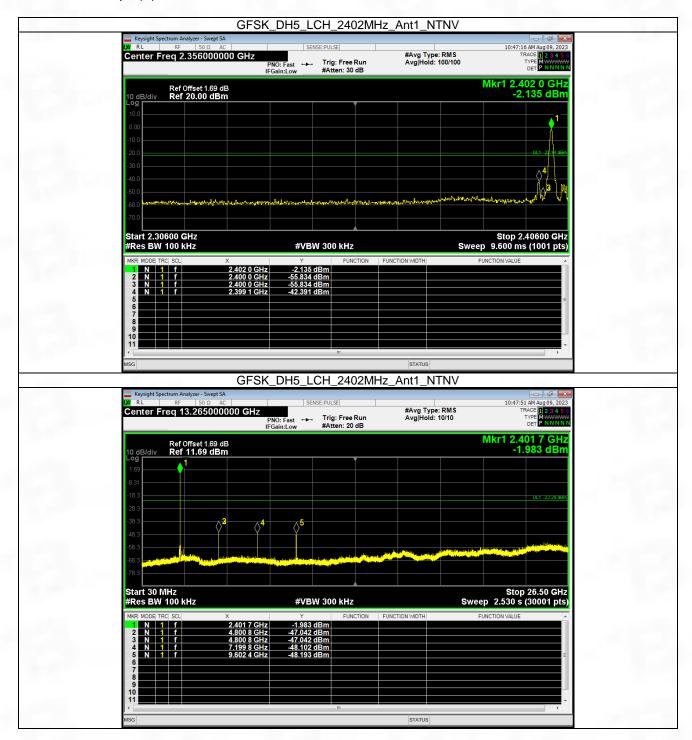
6.2.1 Test Result(L)

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	1	-2.28	-22.28	Pass
GFSK	SISO	2441	DH5	1	-0.66	-20.66	Pass
		2480	DH5	1	0.31	-19.69	Pass
		2402	2DH5	1	-1.81	-21.81	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	-1.12	-21.12	Pass
		2480	2DH5	1	0.38	-19.62	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.

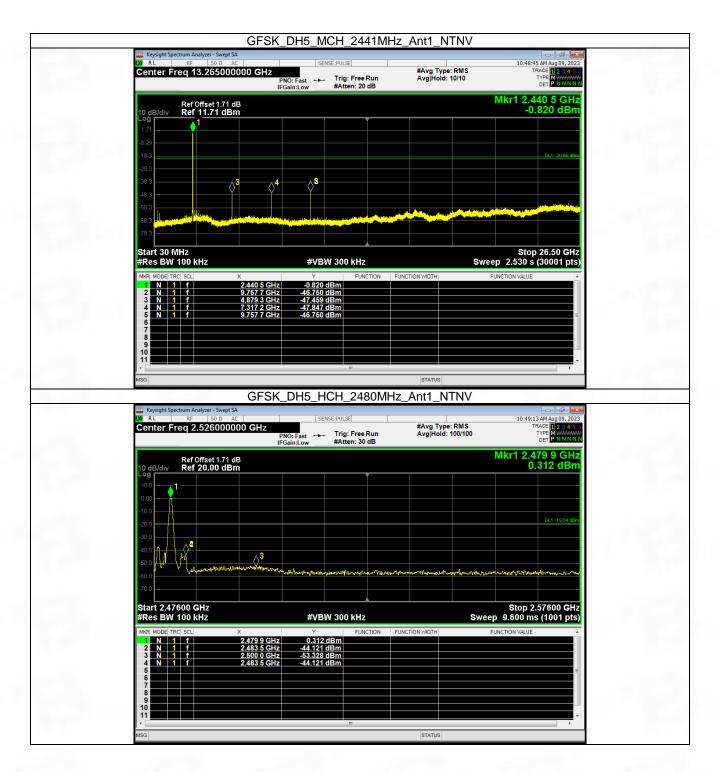


6.2.2 Test Graph(L)



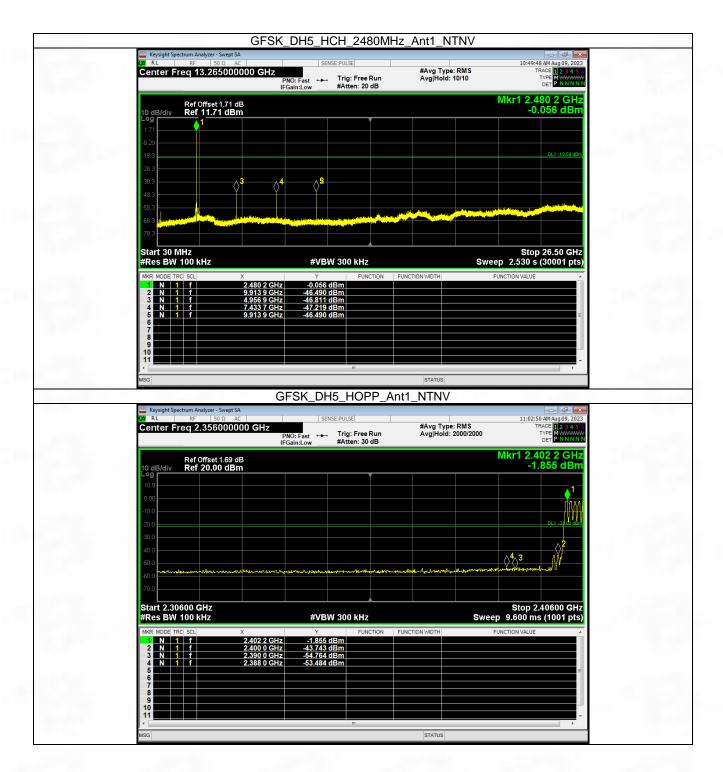






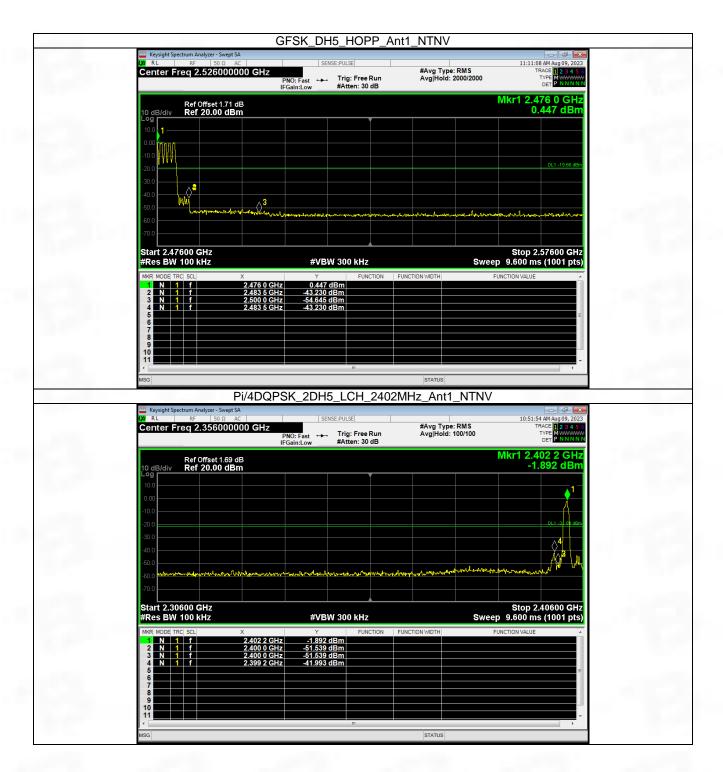






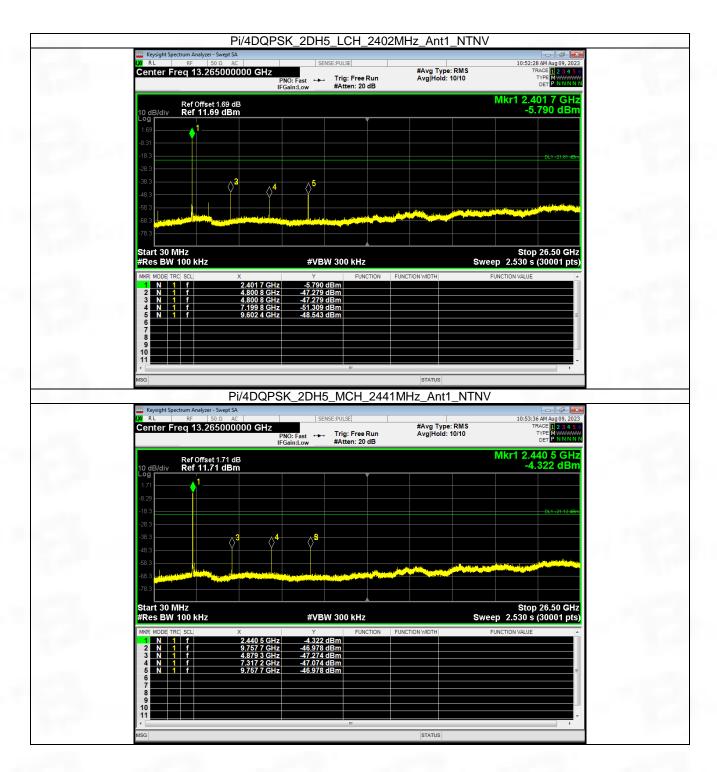






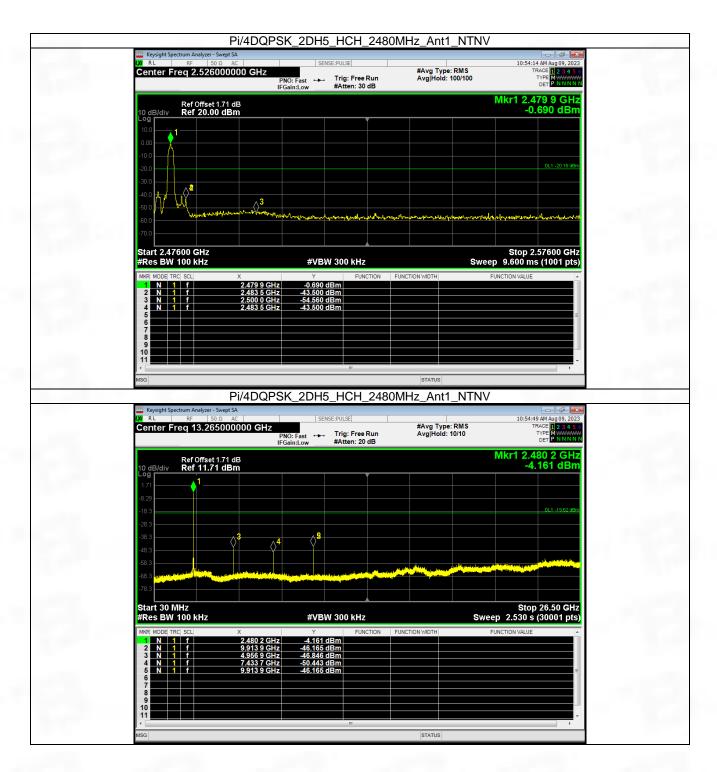






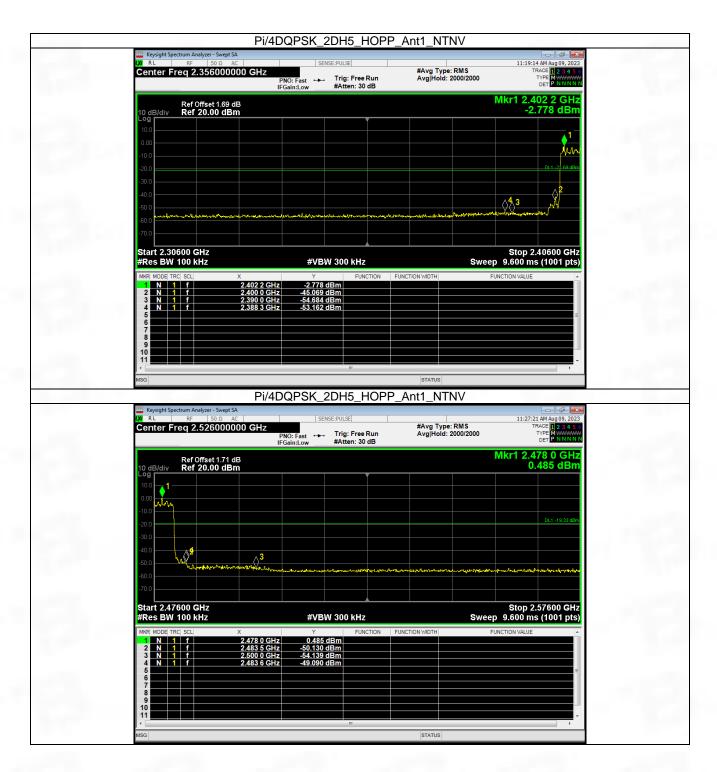


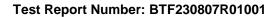














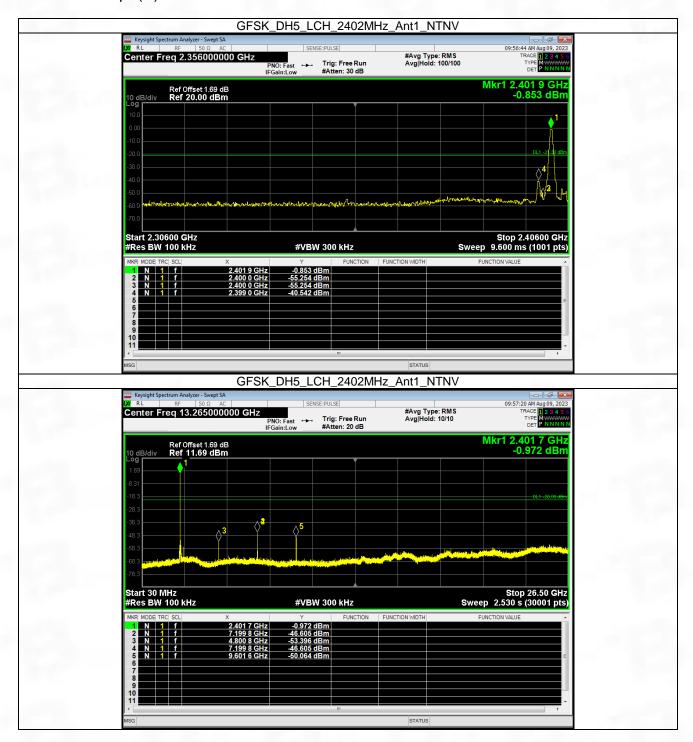
6.2.3 Test Result(R)

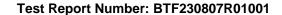
Mode	TX	Frequency	Packet	ANT	Level of Reference	Limit	Verdict
Modo	Type	(MHz)	Туре	7 (1 4)	(dBm)	(dBm)	Voluno
	SISO	2402	DH5	1	-0.99	-20.99	Pass
GFSK		2441	DH5	1	0.49	-19.51	Pass
		2480	DH5	1	1.05	-18.95	Pass
		2402	2DH5	1	-0.86	-20.86	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	0.97	-19.03	Pass
		2480	2DH5	1	1.54	-18.46	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.

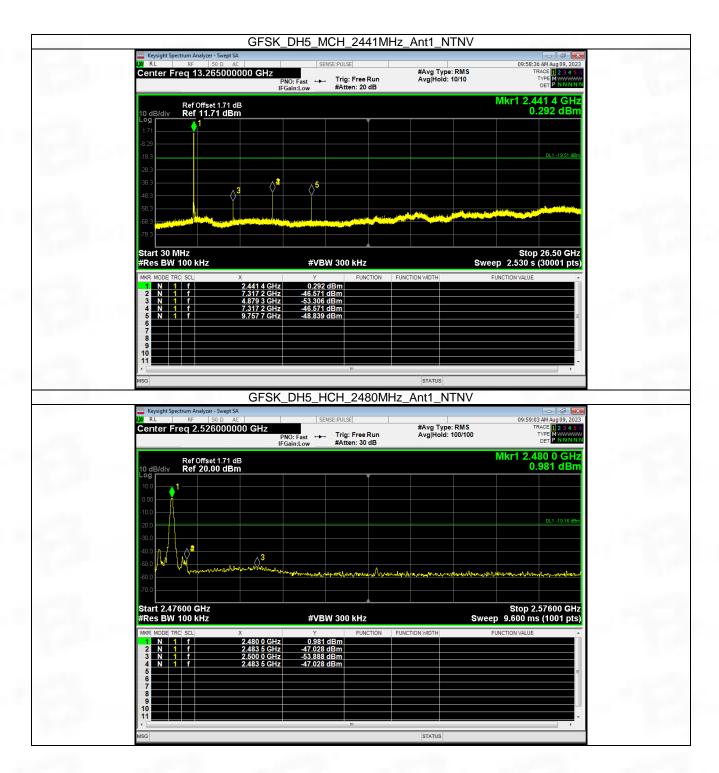


6.2.4 Test Graph(R)



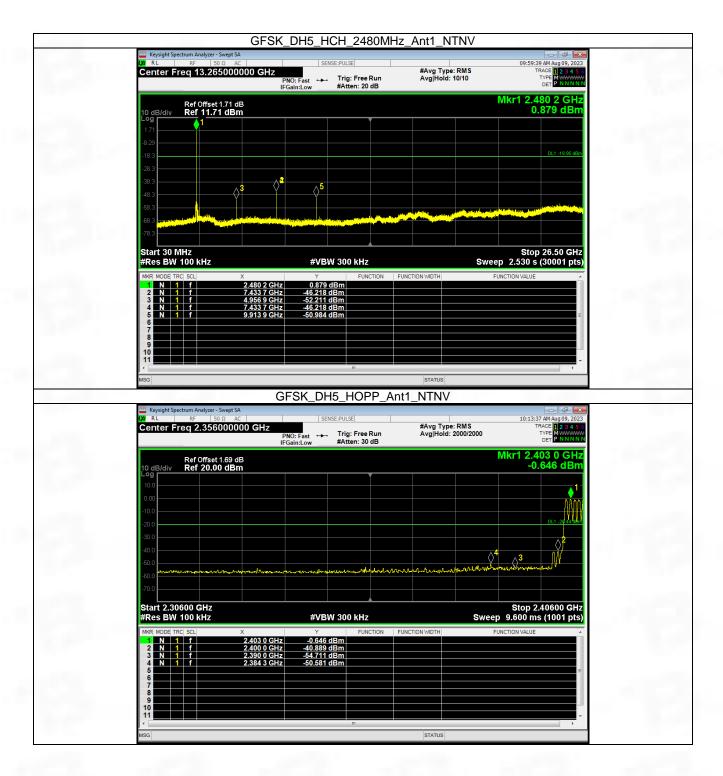


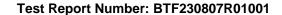




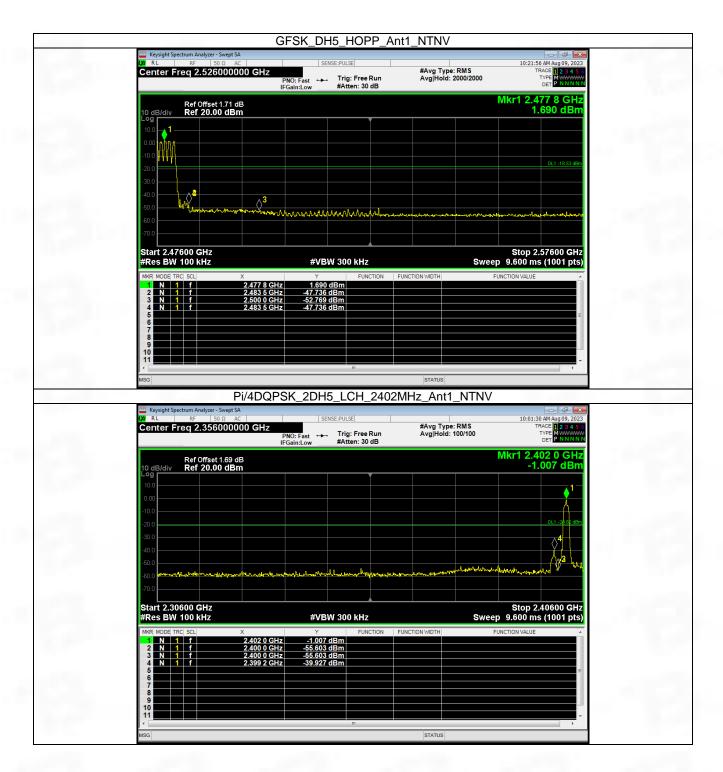






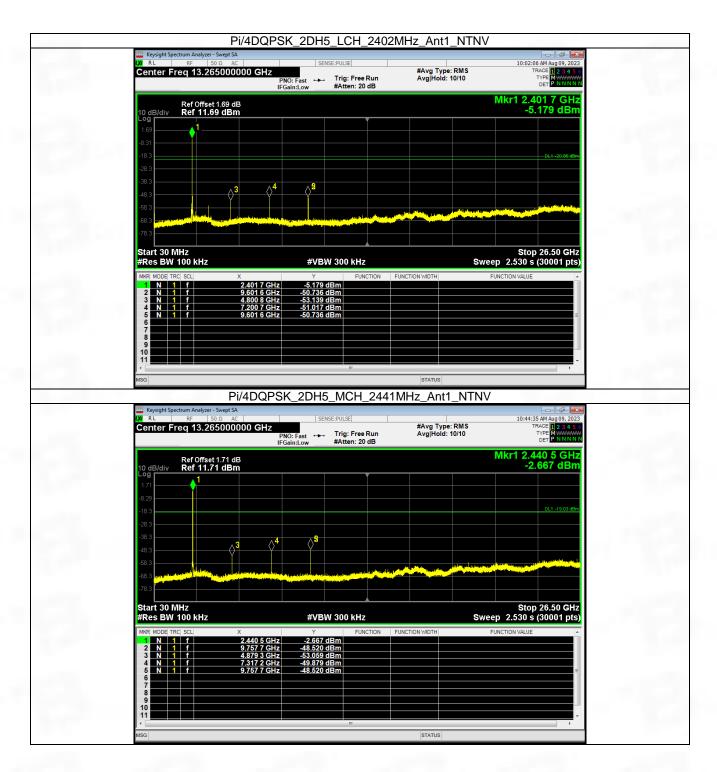


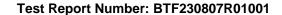




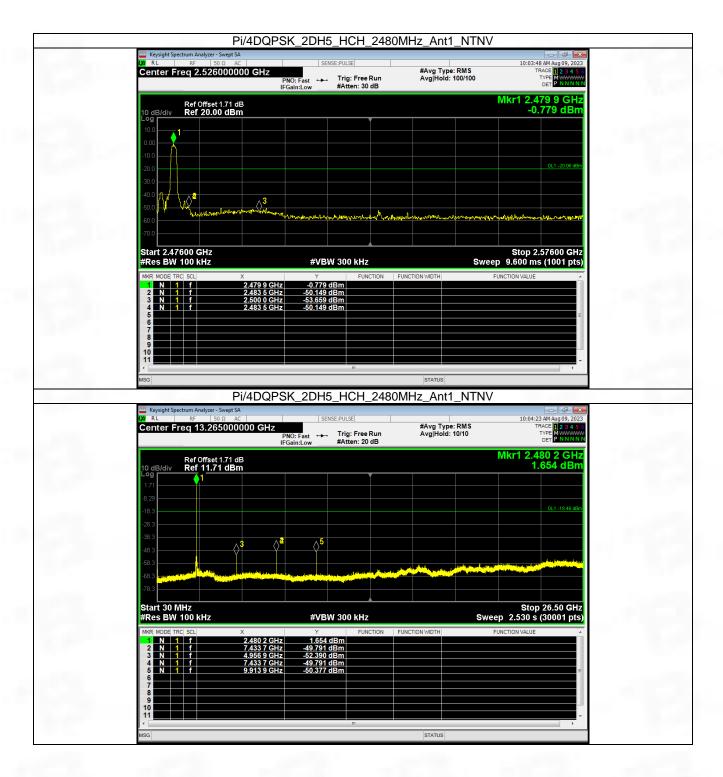


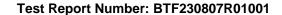




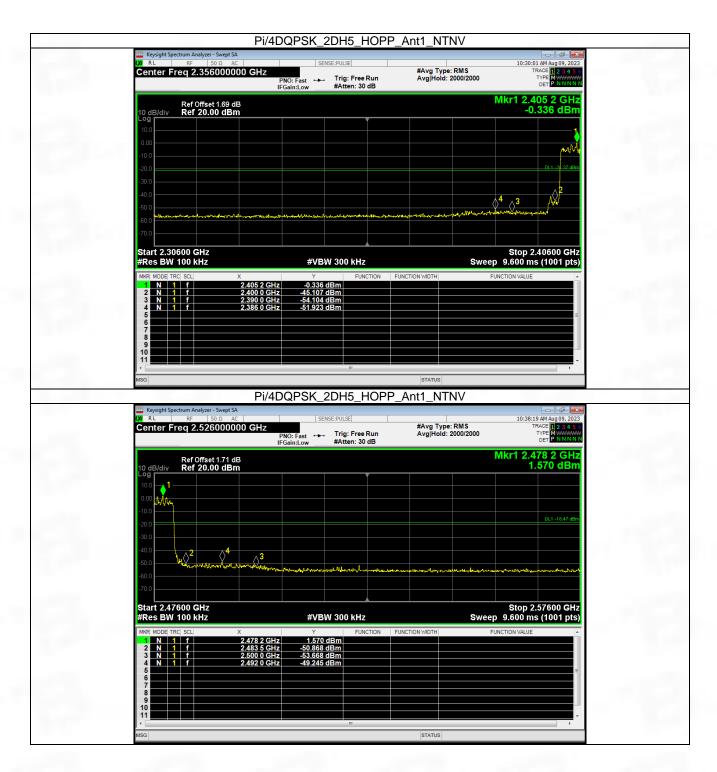


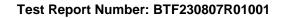












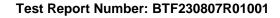


7. Form731

7.1 Form731

7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.00181	2.57







BTF Testing Lab (Shenzhen) Co., Ltd.

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

www.btf-lab.com

-- END OF REPORT --