Shenzhen CTA Testing Technology Co., Ltd.

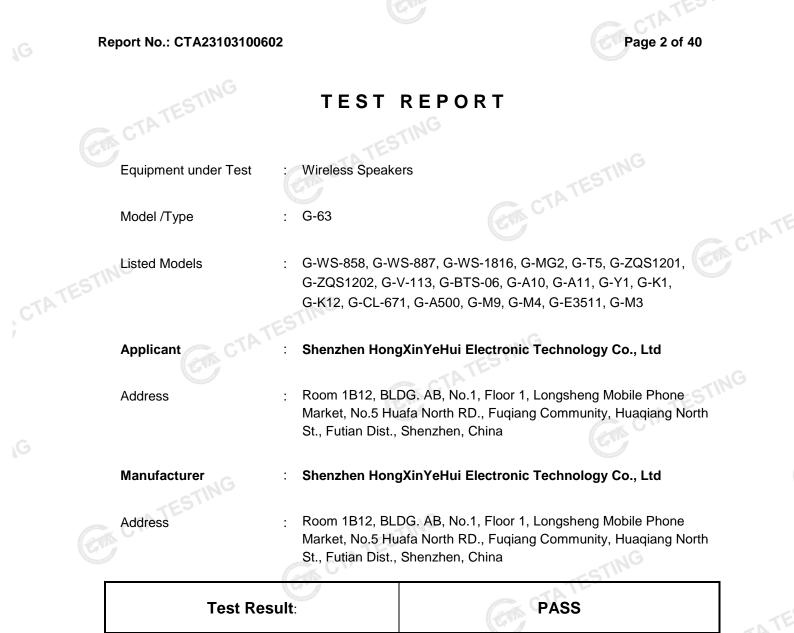


Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

	FCC PART 15.247
Report Reference No	CTA23103100602 2BDJF-G-63
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Date of issue	Nov. 08, 2023
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AV2	
Test specification	CTATES
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Standard	FCC Part 15.247 Co., Ltd. All rights reserved. In whole or in part for non-commercial purposes as long as the too., Ltd. is acknowledged as copyright owner and source of the nology Co., Ltd. takes no responsibility for and will not assume a reader's interpretation of the reproduced material due to its Wireless Speakers N/A Shenzhen HongXinYeHui Electronic Technology Co., Ltd G-63 Refer to page 2 GFSK, Π/4DQPSK
Standard Shenzhen CTA Testing Technology This publication may be reproduced in Shenzhen CTA Testing Technology C material. Shenzhen CTA Testing Tech liability for damages resulting from the placement and context. Test item description	FCC Part 15.247 T Co., Ltd. All rights reserved. In whole or in part for non-commercial purposes as long as the io., Ltd. is acknowledged as copyright owner and source of the innology Co., Ltd. takes no responsibility for and will not assume the reader's interpretation of the reproduced material due to its Wireless Speakers N/A Shenzhen HongXinYeHui Electronic Technology Co., Ltd G-63 Refer to page 2 GFSK, Π/4DQPSK From 2402MHz to 2480MHz

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn



The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Report No.: CTA23103100602

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1 <u>TEST STANDARDS</u>

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

2 SUMMARY

2.1 General Remarks

2.1 General Remarks		TESTING
Date of receipt of test sample		Oct. 31, 2023
	5.44	
Testing commenced on	and the second	Oct. 31, 2023
Testing concluded on	:	Nov. 08, 2023

2.2 Product Description

2.2 Product Descript	
Product Name:	Wireless Speakers
Model/Type reference:	G-63
Power supply:	DC 3.7V from battery and DC 5.0V from external circuit
Adapter information (Auxiliary test supplied by test Lab) :	Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 5V 2A
Hardware version:	V1.0
Software version:	V1.0
Testing sample ID:	CTA231031006-1# (Engineer sample), CTA231031006-2# (Normal sample)
Bluetooth :	
Supported Type:	Bluetooth BR/EDR
Modulation:	GFSK, π/4DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	PCB antenna
Antenna gain:	0.95 dBi

2.3 Equipment Under Test

Power supply system utilised

2.3 Equipment Under Test						
Power supply system utilised	ł				TESTIN	
Power supply voltage	:	Ο	230V / 50 Hz	0	120V / 60Hz	
		0	12 V DC	0	24 V DC	
		•	Other (specified in blank be	low		

DC 3.7V from battery and DC 5.0V from external circuit

2.4 Short description of the Equipment under Test (EUT)

This is a Wireless Speakers.

For more details, refer to the user's manual of the EUT.

2.5 EUT operation mode

The Applicant provides communication tools software(Engineer mode) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 79 channels provided to the EUT and Channel 00/39/78 were selected to test.

Operation Frequency:		
Channel	Frequency (MHz)	
00	2402	
01	2403	
TINC		are the second
38	2440	
39	2441	
40	2442	
G C'	ESTIN	
77	2479	
78	2480	
2.6 Block Diagram of Test Setup	CTATE CTATE	

2.6 Block Diagram of Test Setup

EUT

DC 5.0V from adapter	

2.7 Related Submittal(s) / Grant (s)

CTATE This submittal(s) (test report) is intended for the device filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

TEST ENVIRONMENT 3

Address of the test laboratory 3.1

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement

CAB identifier: CN0127 ISED#: 27890

Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

GA CTATESTING During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission:

Temperature:	25 ° C	
TESI		
Humidity:	46 %	ING
		-5STIN
Atmospheric pressure:	950-1050mbar	CATES
	Store C	
Conducted testing:		
Temperature:	25 ° C	

Conducted testina:

g	
Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar
CTATESI	

3.4 Summary of measurement results

	Test Specification clause	Test case	Test Mode	Test Channel		orded eport	Test result
	§15.247(a)(1)	Carrier Frequency separation	GFSK I/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK П/4DQPSK	Middle Middle	Compliant
	§15.247(a)(1)	Number of Hopping channels	GFSK П/4DQPSK	⊠ Full	GFSK	S Full	Compliant
	§15.247(a)(1)	Time of Occupancy (dwell time)	GFSK П/4DQPSK	 ☑ Lowest ☑ Middle ☑ Highest 	GFSK П/4DQPSK	🛛 Middle	Compliant
TE	§15.247(a)(1)	Spectrumbandwidth of aFHSS system20dB bandwidth	GFSK T/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK ∏/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant
	§15.247(b)(1)	Maximum output peak power	GFSK П/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK ∏/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant
	§15.247(d)	Band edgecompliance conducted	GFSK ∏/4DQPSK	☑ Lowest☑ Highest	GFSK П/4DQPSK	⊠ Lowest ⊠ Highest	Compliant
	§15.205	Band edgecompliance radiated	GFSK П/4DQPSK	⊠ Lowest ⊠ Highest	GFSK П/4DQPSK	⊠ Lowest ⊠ Highest	Compliant
	§15.247(d)	TX spuriousemissions conducted	GFSK П/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK П/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant
	§15.247(d)	TX spuriousemissions radiated	GFSK П/4DQPSK	 ☑ Lowest ☑ Middle ☑ Highest 	GFSK	⊠ Lowest ⊠ Middle ⊠ Highest	Compliant
	§15.209(a)	TX spurious Emissions radiated Below 1GHz	GFSK ∏/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK	Middle	Compliant
	§15.107(a) §15.207	Conducted Emissions 9KHz-30 MHz	GFSK П/4DQPSK	⊠ Lowest ⊠ Middle ⊠ Highest	GFSK	Middle	Compliant

Remark:

2. We tested all test mode and recorded worst case in report

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density		0.57 dB	(1)
Spectrum bandwidth	1	1.1%	(1)

Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

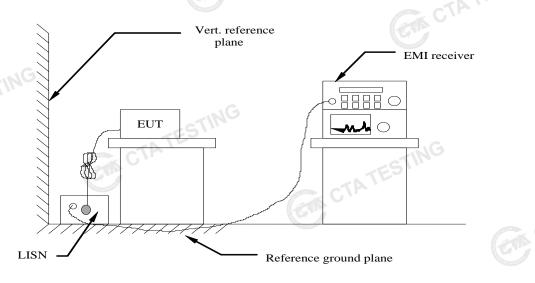
Те	st Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
	LISN	R&S	ENV216	CTA-308	2023/08/02	2024/08/0
	LISN	R&S	ENV216	CTA-314	2023/08/02	2024/08/0
EM	Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/08/0
EM	Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/08/0
Spe	ctrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/08/0
Spe	ctrum Analyzer	G R&S	FSP	CTA-337	2023/08/02	2024/08/0
V	ector Signal generator	Agilent	N5182A	CTA-305	2023/08/02	2024/08/0
A	nalog Signal Generator	R&S	SML03	CTA-304	2023/08/02	2024/08/0
	EBAND RADIO IMUNICATION TESTER	CMW500	R&S	CTA-302	2023/08/02	2024/08/0
	nperature and Imidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/08/0
	ra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/1
Н	orn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/1
L	pop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/1
н	orn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/0
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/0
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08/0
Dire	ctional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/0
Hię	gh-Pass Filter	S XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08/0
Hię	gh-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08/0
Au	tomated filter bank	Tonscend	JS0806-F	CTA-404	2023/08/02	2024/08/0
P	ower Sensor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/0
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/0

	Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date	
	EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A	
	EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A	
	RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A	
	RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A	TATE
	TING					(CIA)	- <i>p</i>
CTATE	51	CTATESTING					
Ĩ		CTATES					

4 TEST CONDITIONS AND RESULTS

AC Power Conducted Emission 4.1

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.

2 Support equipment, if needed, was placed as per ANSI C63.10-2013

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013

4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

5 All support equipments received AC power from a second LISN, if any.

6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Eroquonov rongo (MHz)	Limit (dBuV)					
Frequency range (MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
* Description with the langest the fragmeness						

* Decreases with the logarithm of the frequency.

TEST RESULTS

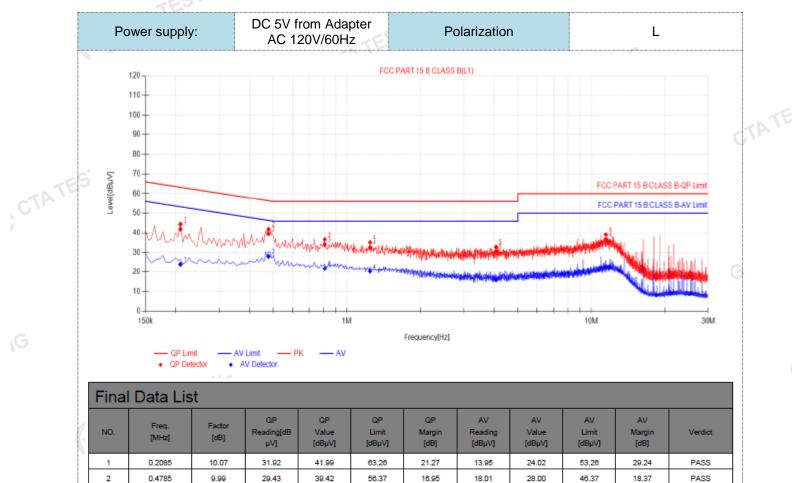
Remark:

1. All modes of GFSK, II/4 DQPSK were test at Low, Middle, and High channel; only the worst result of GFSK Middle Channel was reported as below:

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PASS PASS PASS PASS

2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



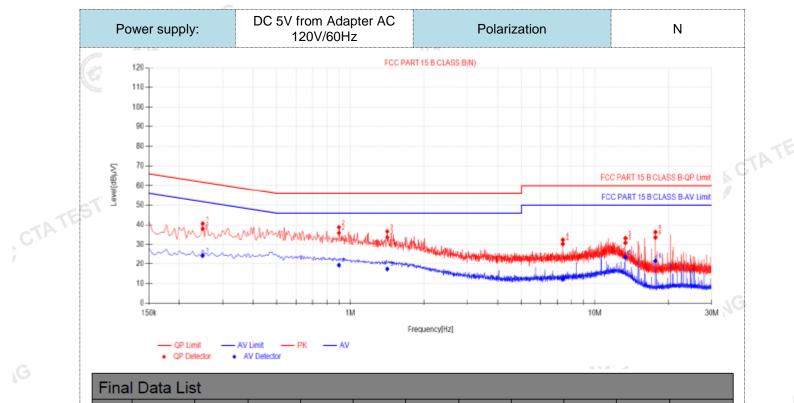
2	0.4785	9.99	29.43	39.42	56.37	16.95	18.01	28.00	46.37	18.37	
3	0.8115	9.98	24.06	34.04	56.00	21.96	11.83	21.81	46.00	24.19	
4	1.2435	9.90	22.70	32.60	56.00	23.40	10.41	20.31	46.00	25.69	
5	4.0695	9.92	20.69	30.61	56.00	25.39	6.10	16.02	46.00	29.98	
6	11.4585	10.27	26.21	36.48	60.00	23.52	12.52	22.79	50.00	27.21	

Note:1).QP Value $(dB\mu V) = QP$ Reading $(dB\mu V) +$ Factor (dB)

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
 - CTATESTIN' 4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

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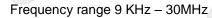


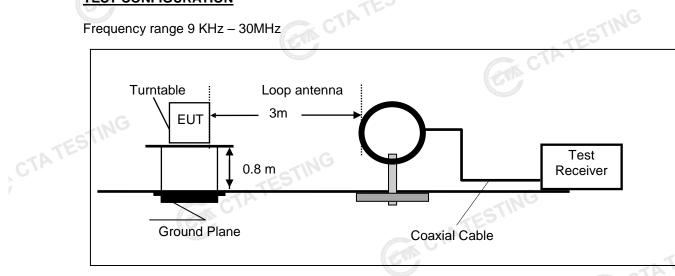
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$													
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	NO.			Reading[dB	Value	Limit	Margin	Reading	Value	Limit	Margin	Verdict	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1	0.249	10.02	27.81	37.83	61.79	23.96	14.39	24.41	51.79	27.38	PASS	
4 7.395 10.42 19.84 30.26 60.00 29.74 1.88 12.30 50.00 37.70 PASS 5 13.308 10.41 20.43 30.84 60.00 29.76 13.13 23.54 50.00 26.46 PASS 6 17.691 10.50 23.02 33.52 60.00 26.48 11.13 21.63 50.00 28.37 PASS Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) Output	2	0.897	10.13	25.68	35.81	56.00	20.19	9.20	19.33	46.00	26.67	PASS	
5 13.308 10.41 20.43 30.84 60.00 29.16 13.13 23.54 50.00 26.46 PASS 6 17.691 10.50 23.02 33.52 60.00 26.48 11.13 21.63 50.00 28.37 PASS Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan=4	3	1.4145	10.15	23.51	33.66	56.00	22.34	7.27	17.42	46.00	28.58	PASS	
6 17.691 10.50 23.02 33.52 60.00 26.48 11.13 21.63 50.00 28.37 PASS Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB) 20.10 28.37 PASS 20.00 20.	4	7.395	10.42	19.84	30.26	60.00	29.74	1.88	12.30	50.00	37.70	PASS	
Note:1).QP Value (dB μ V)= QP Reading (dB μ V)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)	5	13.308	10.41	20.43	30.84	60.00	29.16	13.13	23.54	50.00	26.46	PASS	
2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)	6	17.691	10.50	23.02	33.52	60.00	26.48	11.13	21.63	50.00	28.37	PASS	
$(A) = A \setminus (A = a + b + (A = D) + A \setminus (A = b + b + (A = D) + A \setminus (A = B + b + (A = D) + A \setminus (A = B + A + (A = D) + A \setminus (A = B + A + (A = B) + A \cap (A = B + A + (A = B) + A \cap (A = B + A + (A = B) + A \cap (A = B + A + (A = B) + A \cap (A = B + A + (A = B) + A \cap (A = B + A + (A = B) + A \cap (A = B) + A \cap (A = B + A + (A = B) + A \cap (A = B + A + A + A + A + A + A + A + A + A +$													

Note:1).QP Value ($dB\mu V$)= QP Reading ($dB\mu V$)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) 3). QPMargin(dB) = QP Limit (dB μ V) - QP Value (dB μ V) 4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V)

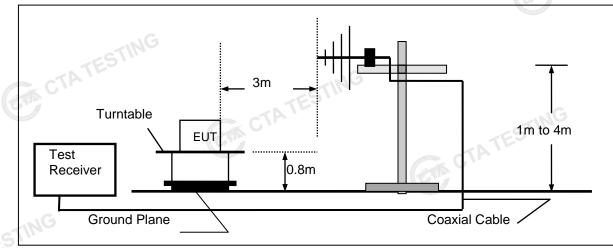
4.2 **Radiated Emission**

TEST CONFIGURATION

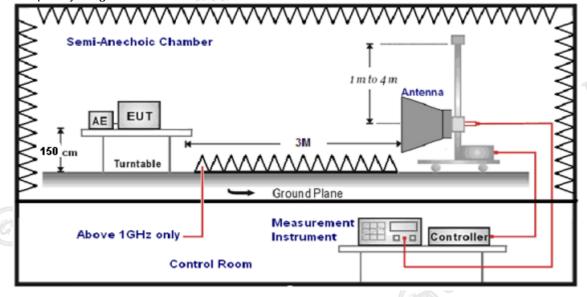




Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



6.

TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz -1GHz; the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz - 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed. 4.
- Radiated emission test frequency band from 9KHz to 25GHz. 5.

The distance between test antenna and EUT as following table states:								
Test Frequency range	Test Antenna Type	Test Distance						
9KHz-30MHz	Active Loop Antenna	3						
30MHz-1GHz	Ultra-Broadband Antenna	3						
1GHz-18GHz	Double Ridged Horn Antenna	3						
18GHz-25GHz	1							

Setting test receiver/spectrum as following table states: 7.

Setting test receiver/spectrum as following table states.								
Test Frequency range	Test Receiver/Spectrum Setting	Detector						
9KHz-150KHz	9KHz-150KHz RBW=200Hz/VBW=3KHz,Sweep time=Auto							
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP						
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP						
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak						

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

sample calculation is as follows.	STINE				
FS = RA + AF + CL - AG	CTATES				
Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)				
RA = Reading Amplitude	AG = Amplifier Gain				
AF = Antenna Factor	57				

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)		
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)		
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)		
1.705-30	3	20log(30)+ 40log(30/3)	30		
30-88	3	40.0	100		
88-216	3	43.5	150		
216-960	3	46.0	200		
Above 960	3	54.0	500		

TESTING

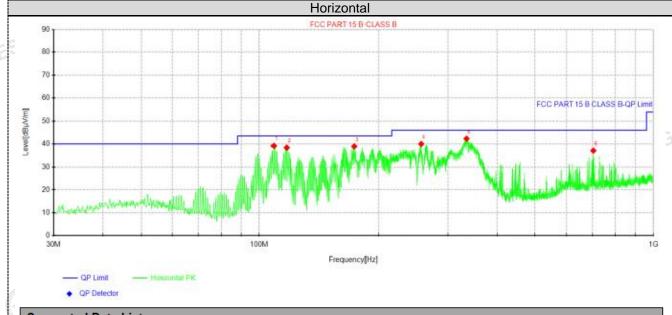
CTP

TEST RESULTS

Remark:

- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X 1. position.
- We measured Radiated Emission at GFSK, π/4 DQPSK mode from 9 KHz to 25GHz and recorded worst 2. case at GFSK DH5 mode.
- For below 1GHz testing recorded worst at GFSK DH5 middle channel. 3.
- 4. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.





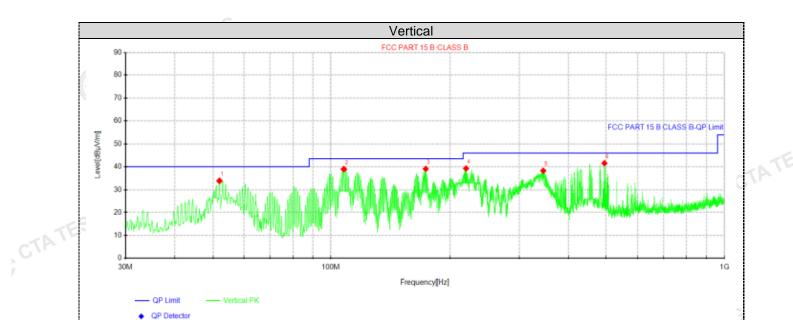
Jush	Suspected Data List										
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	rolanty		
1	108.812	52.75	39.12	-13.63	43.50	4.38	100	360	Horizontal		
2	117.3	52.48	38.34	-14.14	43.50	5.16	100	319	Horizontal		
3	174.166	54.26	38.90	-15.36	43.50	4.60	100	113	Horizontal		
4	256.373	52.47	39.97	-12.50	46.00	6.03	100	91	Horizontal		
5	334.822	53.53	42.28	-11.25	46.00	3.72	100	69	Horizontal		
6	703.422	42.28	37.02	-5.26	46.00	8.98	100	169	Horizontal		

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

CTATE



Suspected Data List											
	NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delecito	
	NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	51.9462	45.49	33.86	-11.63	40.00	6.14	100	104	Vertical	
	2	107.842	52.47	38.89	-13.58	43.50	4.61	100	236	Vertical	
	3	174.166	54.39	39.03	-15.36	43.50	4.47	100	46	Vertical	
	4	219.756	52.29	39.21	-13.08	46.00	6.79	100	350	Vertical	
	5	345.735	49.51	38.21	-11.30	46.00	7.79	100	9	Vertical	
1	6	494.872	50.92	41.50	-9.42	46.00	4.50	100	357	Vertical	

Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

For 1GHz to 25GHz

Note: GFSK , $\pi/4$ DQPSK all have been tested, only worse case GFSK is reported. GFSK (above 1GHz)

Freque	requency(MHz): 2402 Polarity: HORIZON			IORIZONT	ΓAL						
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)		
4804.00	62.27	PK	74	11.73	66.54	32.33	5.12	41.72	-4.27		
4804.00	45.04	AV	54	8.96	49.31	32.33	5.12	41.72	-4.27		
7206.00	53.51	PK	74	20.49	54.03	36.6	6.49	43.61	-0.52		
7206.00	42.73	AV	54	11.27	43.25	36.6	6.49	43.61	-0.52		

									G
Freque	ency(MHz): 2402 Polarity:			arity:	VERTICAL				
Frequency (MHz)	-	sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	60.13	PK	74	13.87	64.40	32.33	5.12	41.72	-4.27
4804.00	43.19	AV	54	10.81	47.46	32.33	5.12	41.72	-4.27
7206.00	51.02	PK	74	22.98	51.54	36.6	6.49	43.61	-0.52
7206.00	40.40	AV	54	13.60	40.92	36.6	6.49	43.61	-0.52

Freque	Frequency(MHz):			2441		Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Lev (dBu)	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4882.00	61.60	PK	74	12.40	65.48	32.6	5.34	41.82	-3.88	
4882.00	44.48	AV	54	9.52	648.36	32.6	5.34	41.82	-3.88	
7323.00	53.44	PK	74	20.56	53.55	36.8	6.81	43.72	-0.11	
7323.00	43.06	AV	54	10.94	43.17	36.8	6.81	6 43.72	-0.11	
			Cark V				STIL			

Frequency(MHz):			2441		Polarity:		VERTICAL			
Frequency (MHz)	Emis Lev (dBu)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4882.00	59.14	PK	74	14.86	63.02	32.6	5.34	41.82	-3.88	
4882.00	42.86	AV	54	11.14	46.74	32.6	5.34	41.82	-3.88	
7323.00	51.87	PK	74	22.13	51.98	36.8	6.81	43.72	-0.11	
7323.00	40.57	AV	54	13.43	40.68	36.8	6.81	43.72	-0.11	
			IES.							

Frequency(MHz):		:	2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	61.05	PK	74	12.95	64.13	32.73	5.66	41.47	-3.08
4960.00	45.74	AV	54	8.26	48.82	32.73	5.66	41.47	-3.08
7440.00	53.77	PK	74	20.23	53.32	37.04	7.25	43.84	0.45
7440.00	42.80	PK	54	11.20	42.35	37.04	7.25	43.84	0.45

Frequency	Emis					arity:	VERTICAL		
(MHz)	Lev (dBu\	/el	Limit (dBuV/m)	Margin (dB)	G Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	58.92	PK	74	15.08	62.00	32.73	5.66	41.47	-3.08
4960.00	42.70	AV	54	11.30	45.78	32.73	5.66	41.47	-3.08
7440.00	51.54	PK	74	22.46	51.09	37.04	7.25	43.84	0.45
7440.00	40.97	PK	54	13.03	40.52	37.04	7.25	43.84	0.45
REMARKS:						Contract of the second s			CTP

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- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- 3. Margin value = Limit value- Emission level.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

Results of Band Edges Test (Radiated)

Note: GFSK, $\pi/4$ DQPSK all have been tested, only worse case GFSK is reported.

				GFS	K				
Freque	ncy(MHz)):	24	02	Pola	arity:	F	IORIZONT/	AL.
Frequency (MHz)	-	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	61.67	PK	74 G	12.33	72.09	27.42	4.31	42.15	-10.42
2390.00	42.92	AV	54	11.08	53.34	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)):	24	02	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Le ^v (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	59.89	PK	74	14.11	70.31	27.42	4.31	42.15	-10.42
2390.00	40.70	AV	54	13.30	51.12	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)):	2480 Polarity:		arity:	F	IORIZONT/	AL.	
Frequency (MHz)		ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	61.02	PK	74	12.98	71.13	27.7	4.47	42.28	-10.11
2483.50	43.42	AV	54	10.58	53.53	27.7	4.47	42.28	-10.11
Freque	ncy(MHz)):	24	80	Polarity:			VERTICAL	
Frequency (MHz)	-	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	58.54	PK	74	15.46	68.65	27.7	4.47	42.28	-10.11
2483.50	41.96	AV	54	12.04	52.07	27.7	4.47	42.28	-10.11
REMARKS								1000	ALC: NO
 Emission 	n level (dB	suV/m) =F	Raw Value (dE	SuV)+Correcti	on Factor (dB/m)			

2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier

3. Margin value = Limit value- Emission level.

4. -- Mean the PK detector measured value is below average limit.

CTA TESTING 5. The other emission levels were very low against the limit.

Maximum Peak Output Power 4.3

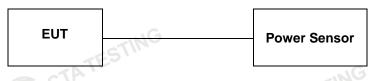
Limit

The Maximum Peak Output Power Measurement is 125mW (20.97).

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to CTATE the powersensor.

Test Configuration CTATESTING



Test Results

Туре	Channel	Output power (dBm)	Limit (dBm)	Result
	00	-1.10	R	TES
GFSK	39	-0.36	20.97	Pass
	78	0.34		
-iN	G 00	-0.22		
π/4DQPSK	39	0.53	20.97	Pass
	78	1.21		
Note: 1.The test res	sults including the	cable lose.	CTATESTING	

20dB Bandwidth 4.4

Limit

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Test Configuration



Test Results

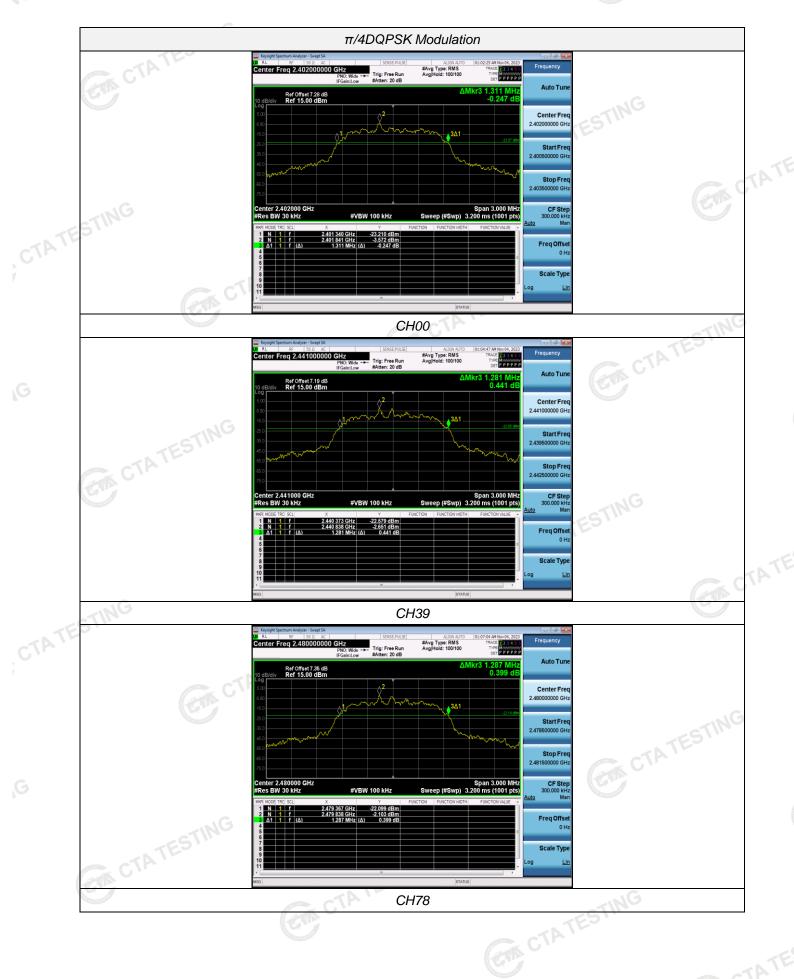
<u>st Results</u>			GTA CTA TESTING
Modulation	Channel	20dB bandwidth (MHz)	Result
TING	CH00	0.990	
GFSK	CH39	1.005	
CTP '	CH78	1.008	
	CH00	1.311	- Pass
π/4DQPSK	CH39	1.281	STINC
	CH78	1.287	1
		GO	e cī
est plot as follows:			GA C

Test plot as follows: CTATES









4.5 **Frequency Separation**

LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with100 KHz RBW and 300 KHz VBW.

TEST CONFIGURATION



TEST RESULTS

TEST RESULTS		CTATES		TESTING
Modulation	Channel	Channel Separation (MHz)	Limit(MHz)	Result
GFSK	CH38	1.316	25KHz or 2/3*20dB	Pass
OF OK	CH39	1.010	bandwidth	1 235
π/4DQPSK	CH38	1 008	25KHz or 2/3*20dB	Pass
11/4DQF3K	CH39	1.008	bandwidth	Fass

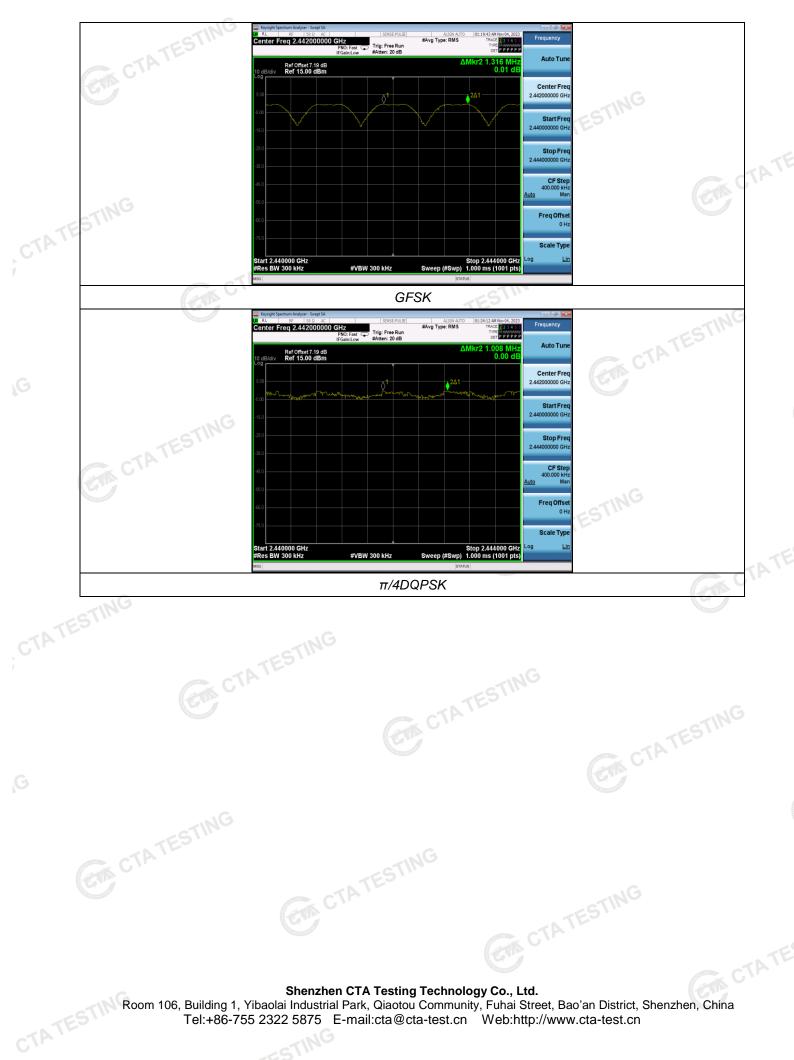
Note:

We have tested all mode at high, middle and low channel, and recorded worst case at middle

Test plot as follows:



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Number of hopping frequency 4.6

Limit C

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Test Procedure

GTA CTATE The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with 100 KHz RBW and 300 KHz VBW.

Test Configuration CTATES



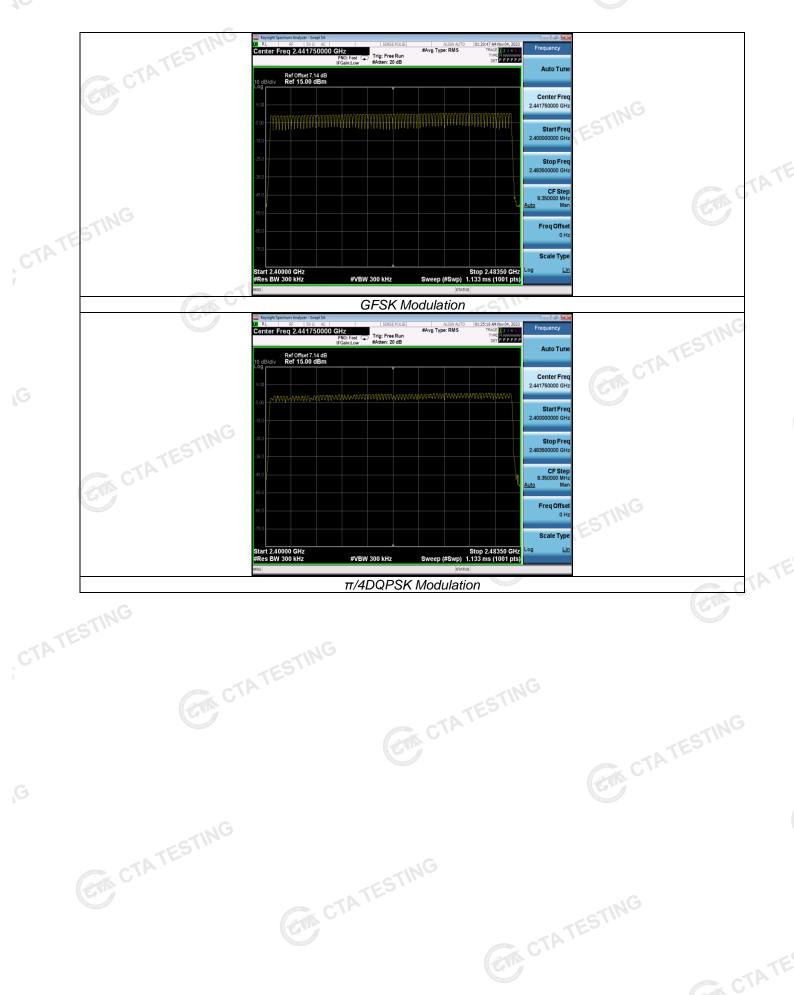
Test Results

Test Results	CTAT	STING	
Modulation	Number of Hopping Channel	Limit	Result
GFSK	79	≥15	Pass
π/4DQPSK	79	215	Fass

Test plot as follows: CTATES

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4.7 Time of Occupancy (Dwell Time)

Limit

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.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 1MHz VBW, Span 0Hz.

Test Configuration



Test Results

			1		-NTES
Modulation	Packet	Burst time (ms)	Dwell time (s)	Limit (s)	Result
	DH1	0.37	0.118	431054	
GFSK	GDH3	1.62	0.259	0.40	Pass
TES	DH5	2.86	0.305		
CIL	2-DH1	0.37	0.118		
π/4DQPSK	2-DH3	1.63	0.261	0.40	Pass
	2-DH5	2.87	0.306	TESTIN	

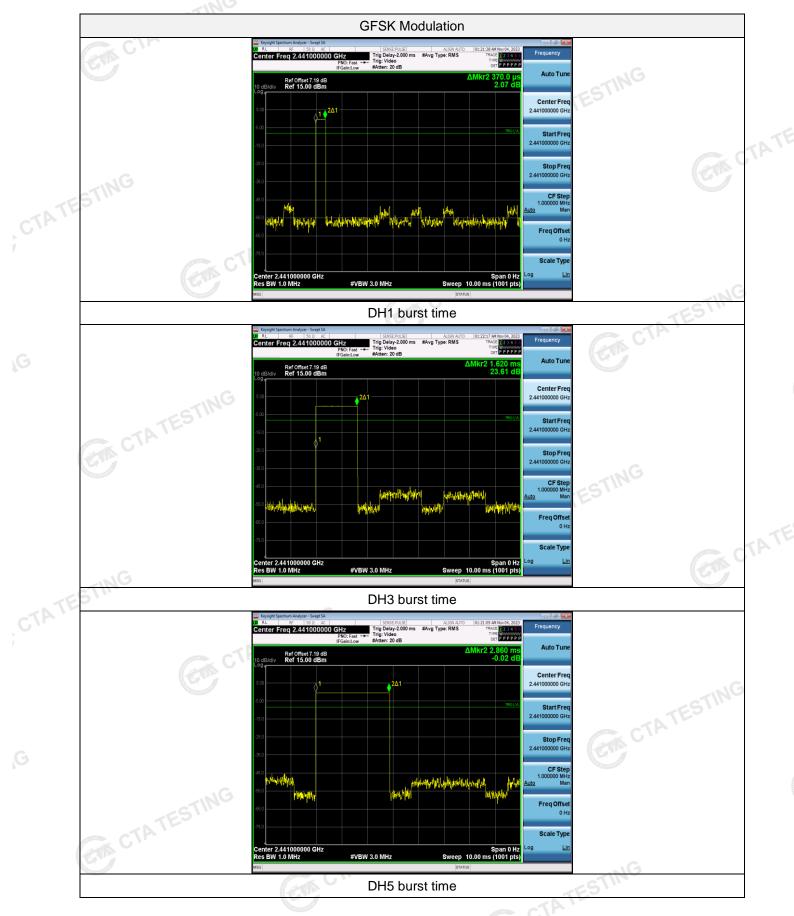
Note:We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.

Dwell time=Pulse time (ms) × $(1600 \div 2 \div 79)$ ×31.6 Second for DH1, 2-DH1 Dwell time=Pulse time (ms) × $(1600 \div 4 \div 79)$ ×31.6 Second for DH3, 2-DH3 Dwell time=Pulse time (ms) × $(1600 \div 6 \div 79)$ ×31.6 Second for DH5, 2-DH5

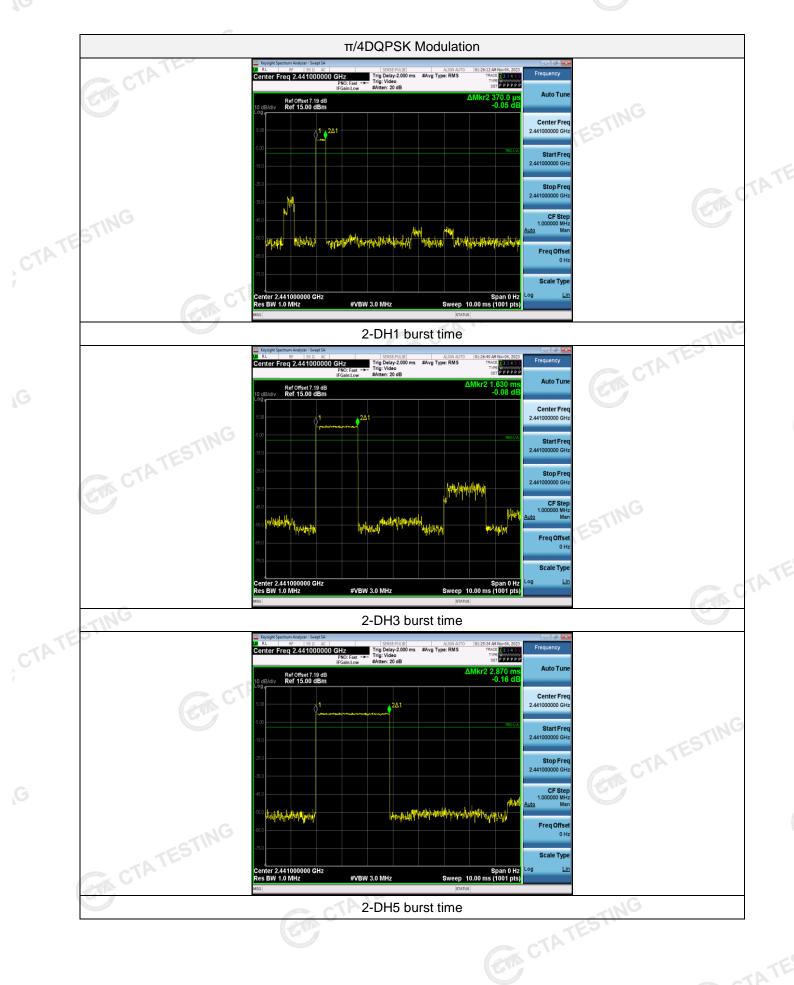
CTATESTING

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Test plot as follows:







Out-of-band Emissions 4.8

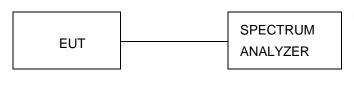
Limit C

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, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies 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 Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these setting are GTA CTATESTING made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration

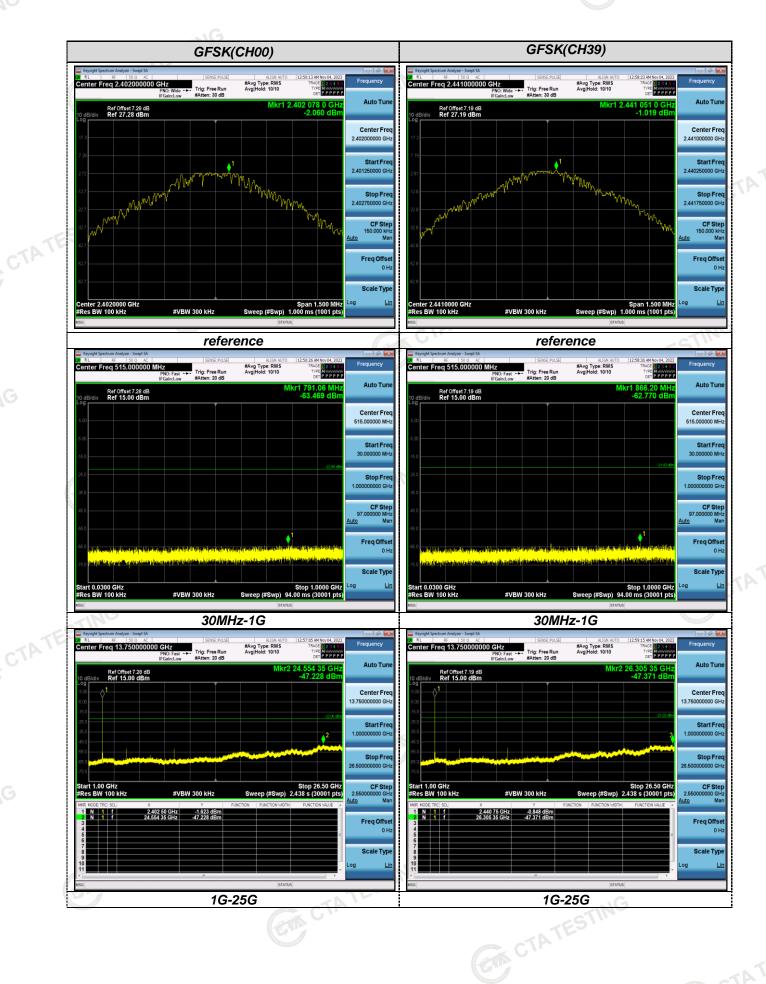


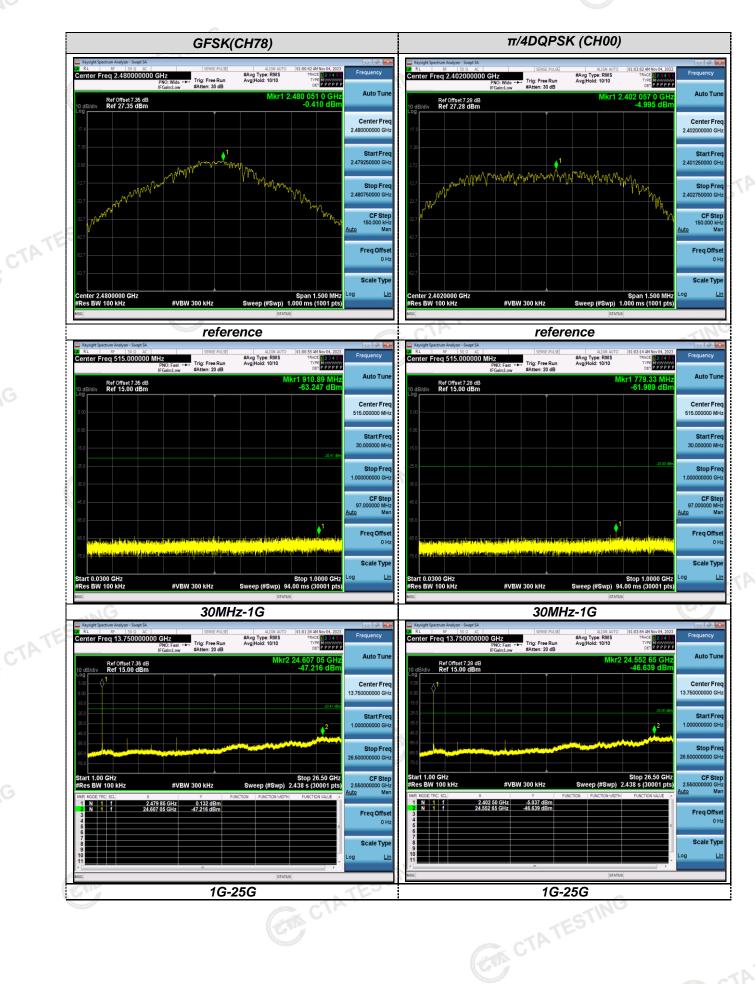
Test Results

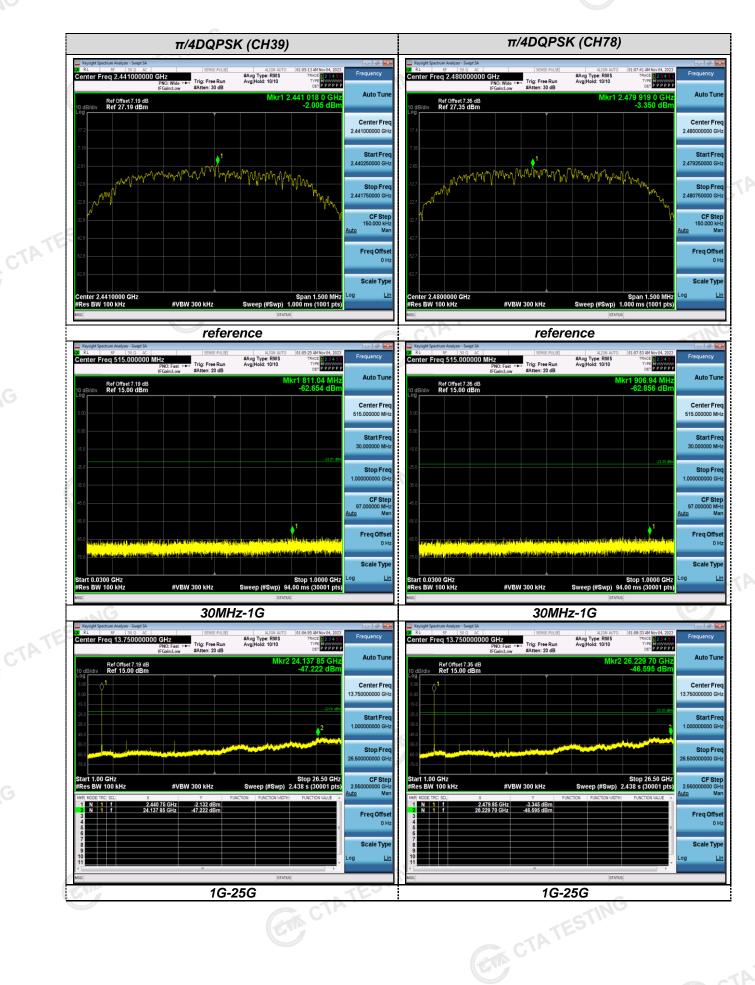
Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

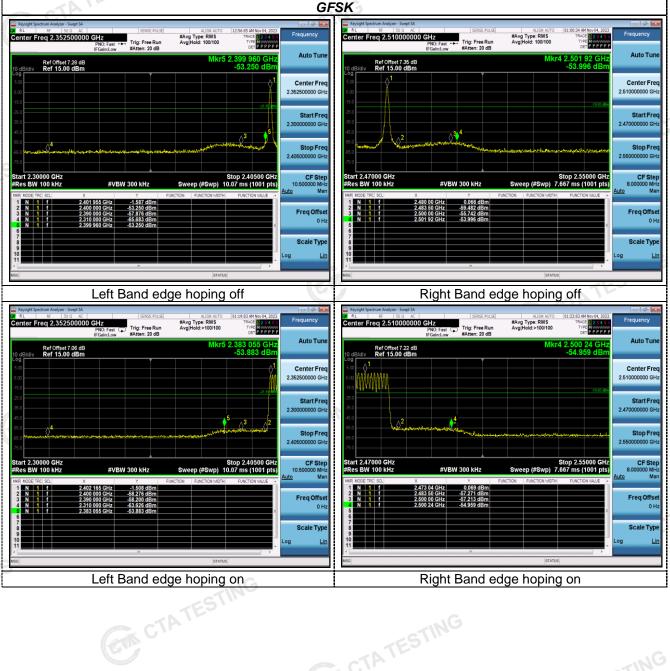
We measured all conditions (DH1, DH3, DH5) and recorded worst case at DH5

Test plot as follows:



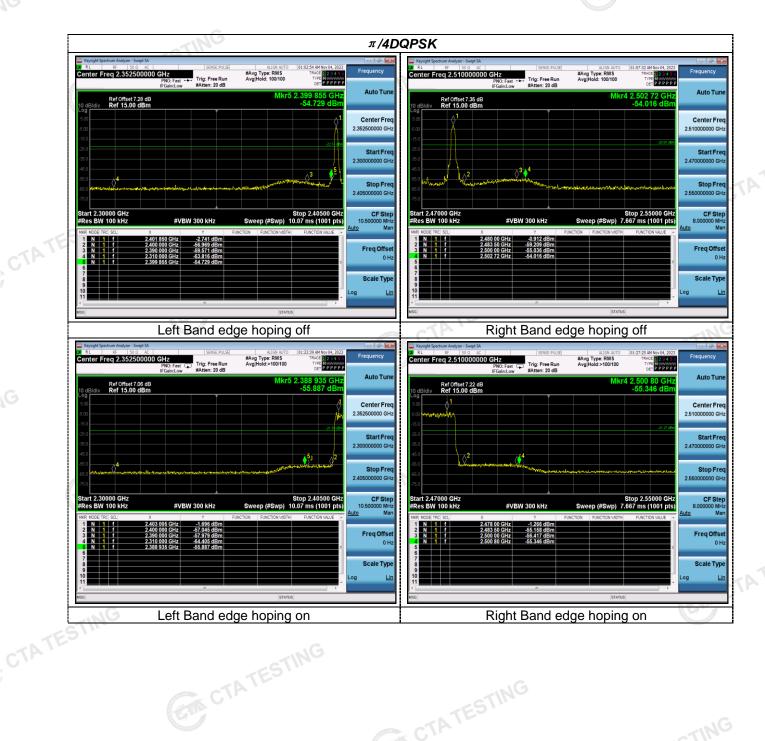






Band-edge Measurements for RF Conducted Emissions:

Report No.: CTA23103100602



Pseudorandom Frequency Hopping Sequence 4.9

TEST APPLICABLE

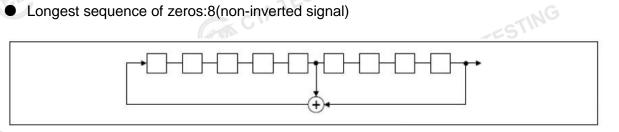
For 47 CFR Part 15C section 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:

0	2	4	6	62	64	78	1	73 75 77	
					П	1			
				- 1		1			
- 1				1		1			

Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

4.10 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The maximum gain of antenna was 0.95 dBi.

Remark:The antenna gain is provided by the customer , if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility.

5 Test Setup Photos of the EUT







