

175

WSE

WSE

on & Tes

VSE

1156

World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

WS.

WSE

WSC1



CAC-MD

For Question, Please Contact with WSCT www.wsct-cert.com

WS

Member of the WSCT IN

# TEST REPORT

FCC ID: 2AIZN-X6720B Product: Mobile Phone Model No.: X6720B Trade Mark: Infinix Report No.: WSCT-ANAB-R&E240700032A-BT Issued Date: 12 August 2024

Issued for:

INFINIX MOBILITY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

#### Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B, Baoli'an Industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-26996192

1EL. +00-755-20990192

FAX: +86-755-86376605

Note: This report shall not be reproduced except in full, without the written approval of World Standardization Certification& Testing Group (Shenzhen) Co., Ltd. This document may be altered or revised by World Standardization Certification& Testing Group (Shenzhen) Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

rs F

World Stankard Ration Certifications Table

世标检测认证股份 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china up (Shenzhen) Co., Ltd. TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

N 65 E 8



Acation & Testino

WSC1

PLIOM \* PT

5

69

Cot

zation

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.





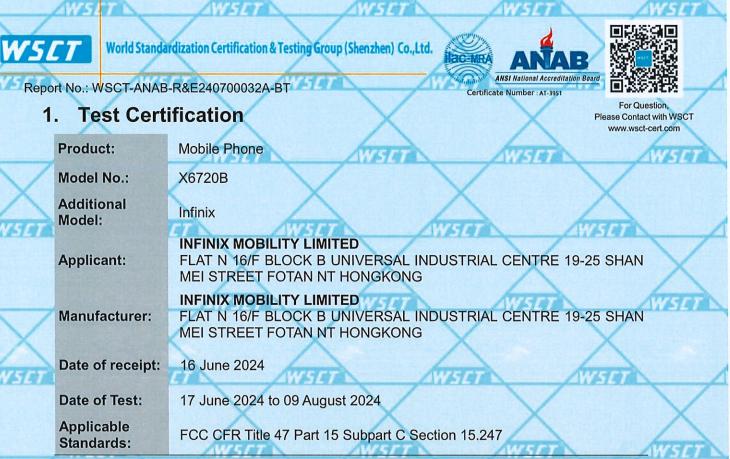
Report No.: WSCT-ANAB-R&E240700032A-BT

## TABLE OF CONTENTS

For Question, Please Contact with WSCT www.wsct-cert.com

	1	WSET WSET WSET	WSE
	1.	Test Certification	
X	2.	Test Result Summary	4
5 <i>ET</i>	3.	EUT Description	
	4.	Genera Information	7
		4.1. TEST ENVIRONMENT AND MODE	7
	1	4.2. DESCRIPTION OF SUPPORT UNITS	
	5.	Facilities and Accreditations	8
		5.1. FACILITIES	
5 <i>CT</i>	X	5.2. ACCREDITATIONS	
		5.3. MEASUREMENT UNCERTAINTY	9
		5.4. MEASUREMENT INSTRUMENTS	10
	6.	Test Results and Measurement Data	<u>1175 C</u>
		6.1. ANTENNA REQUIREMENT	11
$^{\sim}$		6.2. CONDUCTED EMISSION	12
567		6.3. CONDUCTED OUTPUT POWER	16
		6.4. 20DB OCCUPY BANDWIDTH	23
		6.5. CARRIER FREQUENCIES SEPARATION	30
	1	6.6. HOPPING CHANNEL NUMBER	
		6.7. DWELL TIME	40
Х		6.8. PSEUDORANDOM FREQUENCY HOPPING SEQUENCE	
567		6.9. CONDUCTED BAND EDGE MEASUREMENT	
		6.10. CONDUCTED SPURIOUS EMISSION MEASUREMENT	
		6.11. RADIATED SPURIOUS EMISSION MEASUREMENT	
	7.	Test Setup Photographs	76

Comparison of the sector of the secto



The above equipment has been tested by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Checked By: (Qin Shuiquan) (Wang Xiang) Approved By: Date: (Liu Fuxin) on & Test ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china 世标检测认证股份 TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com

Page 3 of 76

Member of the WSCT IN

ON \* P

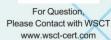






Report No.: WSCT-ANAB-R&E240700032A-BT

## 2. Test Result Summary



	here here			
-/	Requirement	CFR 47 Section	Result	WSLT N
X	Antenna Requirement	§15.203/§15.247 (c)	PASS	
5 <i>CT</i> °	AC Power Line Conducted Emission	§15.207 W5CT	PASS	$\checkmark$
	Maximum conducted output power	§15.247 (b)(1) §2.1046	PASS	WISET
	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS	
967	Carrier Frequencies Separation	§15.247 (a)(1)	PASS	$\mathbf{i}$
	Hopping Channel Number	§15.247 (a)(1)	PASS	WSET
$\overline{}$	Dwell Time	§15.247 (a)(1)	PASS	
527	Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS	WSET

Note:

sication & Testino

W5C1

MOLLO \* MOLLO

Cot

zation

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

Page 4 of 76



751

151

fication & Testino

W5C1

PLIOM \* PI

5

Cor

Zation

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

NSET





For Question.

Please Contact with WSCT

Report No.: WSCT-ANAB-R&E240700032A-BT

## 3. EUT Description

		$\wedge$	www.wsct-cert.com
	Product Name:	Mobile Phone WSCT	SET WSET
/	Model :	X6720B	
	Trade Mark:	Infinix	
7	Software version:	X6720-H353RS-U-OP-240531V276	WSLT
	Hardware version:	V1.2	ХХ
	<b>Operation Frequency:</b>	2402MHz~2480MHz	SET NSET
	Channel Separation:	1MHz	
	Number of Channel:	79	
,	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK	
	Antenna Type:	FIPA Antenna	$\Delta$ $\Delta$
/	Antenna Gain:	-1.62dBi	SET VSET
	Operating Voltage:	Adapter: U180XSA Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.4A or 7.5V2.4A 18.0W N Rechargeable Li-ion Polymer Battery Mod Rated Voltage: 3.87V Rated Capacity: 4900mAh/18.97Wh Typical Capacity: 5000mAh/19.35Wh Limited Charge Voltage: 4.45V	
	Remark:	N/A.	X

Note: 1. N/A stands for no applicable. 2. Antenna gain provided by the customer.

の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の
 の

Member of the WSCT INC.

155



75 E

ification & Testino

WSET

S

Zation

Group

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSET





For Question. Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-ANAB-R&E240700032A-BT

## Operation Frequency each of channel for GFSK, $\pi$ /4-DQPSK, 8DPSK

0         2402MHz         20         2422MHz         40         2442MHz         60         2462MHz           1         2403MHz         21         2423MHz         41         2443MHz         61         2463MHz                     10         2412MHz         30         2432MHz         50         2452MHz         70         2472MHz           11         2413MHz         31         2433MHz         51         2453MHz         71         2473MHz                     11         2413MHz         31         2433MHz         51         2453MHz         71         2473MHz                     18         2420MHz         38         2440MHz         58         2460MHz         78         2480MHz           19         2421MHz         39         2441MHz         59         2461MHz         -           Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK modulation mode.		Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
<td></td> <td>0</td> <td>2402MHz</td> <td>20</td> <td>2422MHz</td> <td>40</td> <td>2442MHz</td> <td>60</td> <td>2462MHz</td>		0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
10       2412MHz       30       2432MHz       50       2452MHz       70       2472MHz         11       2413MHz       31       2433MHz       51       2453MHz       71       2473MHz                   18       2420MHz       38       2440MHz       58       2460MHz       78       2480MHz         19       2421MHz       39       2441MHz       59       2461MHz       -         Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK	ſ	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
11       2413MHz       31       2433MHz       51       2453MHz       71       2473MHz                    18       2420MHz       38       2440MHz       58       2460MHz       78       2480MHz         19       2421MHz       39       2441MHz       59       2461MHz       -         Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK	2		WEIT		WISHT		WISTT		
18         2420MHz         38         2440MHz         58         2460MHz         78         2480MHz           19         2421MHz         39         2441MHz         59         2461MHz         -           Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK         -         -		10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
182420MHz382440MHz582460MHz782480MHz192421MHz392441MHz592461MHz-Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK	ſ	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
19         2421MHz         39         2441MHz         59         2461MHz         -           Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK	ſ								
Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK		18_7	2420MHz	38 7	2440MHz	<b>58</b>	2460MHz	7854	2480MHz
	ſ	19	2421MHz	39	2441MHz	59	2461MHz		- \/
modulation mode	Ī								
		nodulatic	on mode.						

#### (Shenz ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china 世标检测认证股份 TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com Test PHOM \* PT

75

Page 6 of 76

Member of the WSCT INC

151







For Question

Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-ANAB-R&E240700032A-BT

## 4. Genera Information

### 4.1. Test environment and mode

#### Operating Environment:

Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar

#### Test Mode:

Engineering mode:

Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

## 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

2	Equipment	Model No.	Serial No.	FCC ID	Trade Name
			$\times$	/	/

Note:

- All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
   Grounding was established in accordance with the manufacturer's requirements and conditions for the intended
  - use.

on & Test

'OM \* P1

3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

世标检测认证股份 Group (Shenzhen) Co., Ltd. TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com



5.

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.





For Question

Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-ANAB-R&E240700032A-BT

## Facilities and Accreditations

## 5.1.Facilities

cation & Testi

WSEI

M \* PI

All measurement facilities used to collect the measurement data are located at Building A-B, Baoli'an Industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

#### 5.2. ACCREDITATIONS CNAS - Registration Number: L3732

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

#### FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

#### ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951

> > Page 8 of 76



751

751

scation & Testing

W5C7

MOM \* PT

(Sher

Report No.: WSCT-ANAB-R&E240700032A-BT

5.3. Measurement Uncertainty

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.





For Question, Please Contact with WSCT

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is "based"<sup>cr.com</sup> on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

	No.	Item	MU
	1	Duty Cycle and Tx-Sequence and Tx-Gap	±1%5_7
	2	Dwell Time and Minimum Frequency Occupation	±1.2%
	3	Medium Utilisation Factor	±1.3%
7	4	Occupied Channel Bandwidth	±2.4%
	5	Transmitter Unwanted Emission in the out-of Band	±1.3%
2	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
	7	Receiver Spurious Emissions	±2.5%
	8	Conducted Emission Test	±3.2dB
7	9	RF power, conducted	±0.16dB
	10	Spurious emissions, conducted	±0.21dB
7°	11	All emissions, radiated(<1GHz)	±4.7dB
	12	All emissions, radiated(>1GHz)	±4.7dB
	13	Temperature wscr	±0.5°C
/	14	Humidity	±2.0%

多
世际检测认证股份
ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china
Group (Shenzhen) Co., Ltd.
TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 9 of 76



tion & Testi

WSC1

Mont \* D

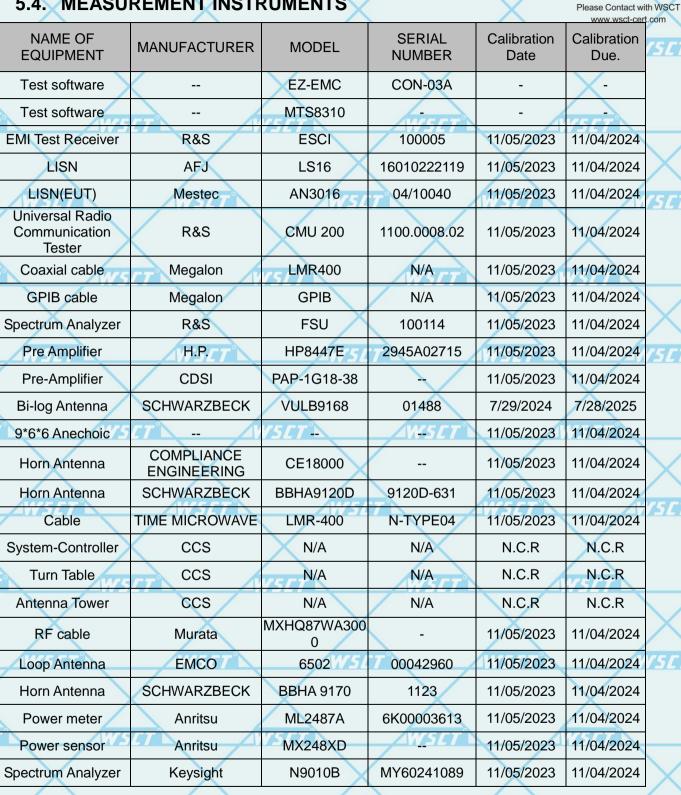
World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.



For Question

Report No.: WSCT-ANAB-R&E240700032A-BT

## 5.4. MEASUREMENT INSTRUMENTS



ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china 世标检测认证股份 TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 10 of 76







Report No.: WSCT-ANAB-R&E240700032A-BT

## 6. Test Results and Measurement Data

For Question, Please Contact with WSCT www.wsct-cert.com

### 6.1. 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.

#### E.U.T Antenna:

cation & Testi

OM \* P

(She

The Bluetooth antenna is a FIPA Antenna. it meets the standards, and the best case gain of the antenna is -1.62dBi.

世标检测认证股份 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china Ong Group (Shenzhen) Co.,Ltd. TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 11 of 76



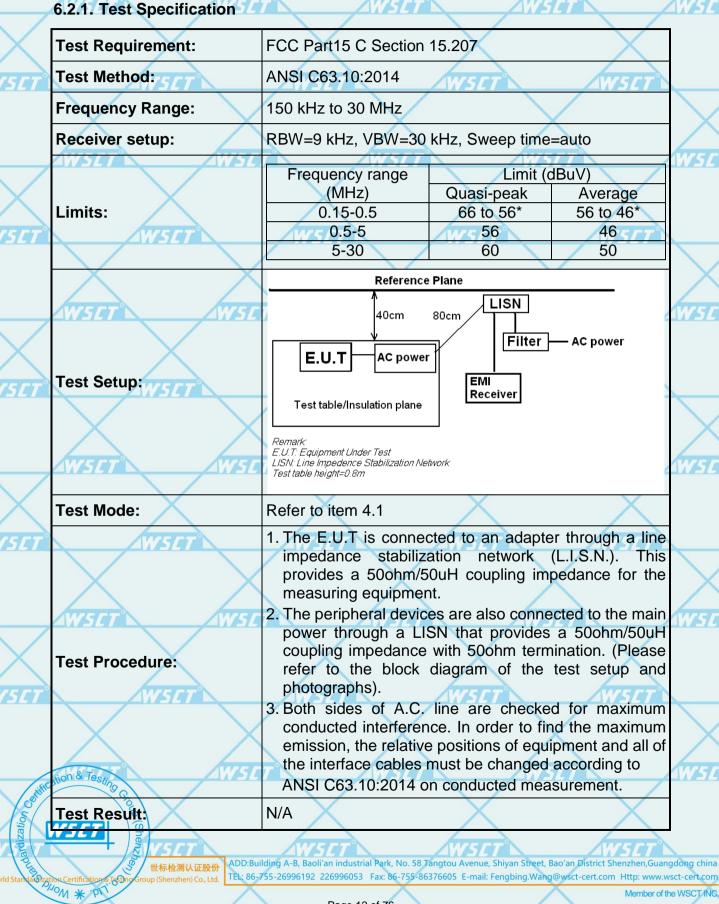




For Question Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-ANAB-R&E240700032A-BT

#### 6.2. Conducted Emission





scation & Testing

WSC1

MON \* P

(Sher

Cot

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.





For Question, Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-ANAB-R&E240700032A-BT

#### 6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

世标检测认证股份 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china Ong Group (Shenzhen) Co., Ltd. TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 13 of 76







Report No.: WSCT-ANAB-R&E240700032A-BT

9

10

11

12

(She

fication & Testi

WSC1

Mon \* P

Cot

1.5135

2.1660

2.8725

3.8580

19.58

17.92

17.41

17.52

20.64

20.61

20.60

20.59

40.22

38.53

38.01

38.11

56.00

56.00

56.00

56.00

-15.78

-17.47

-17.99

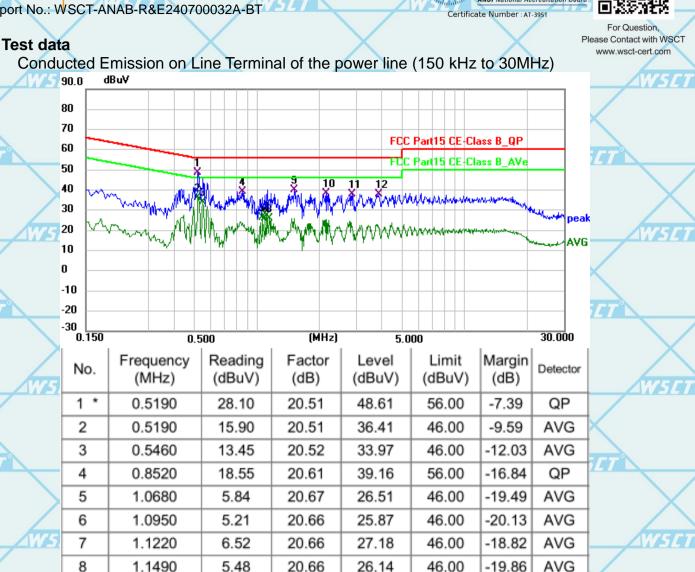
-17.89

QP

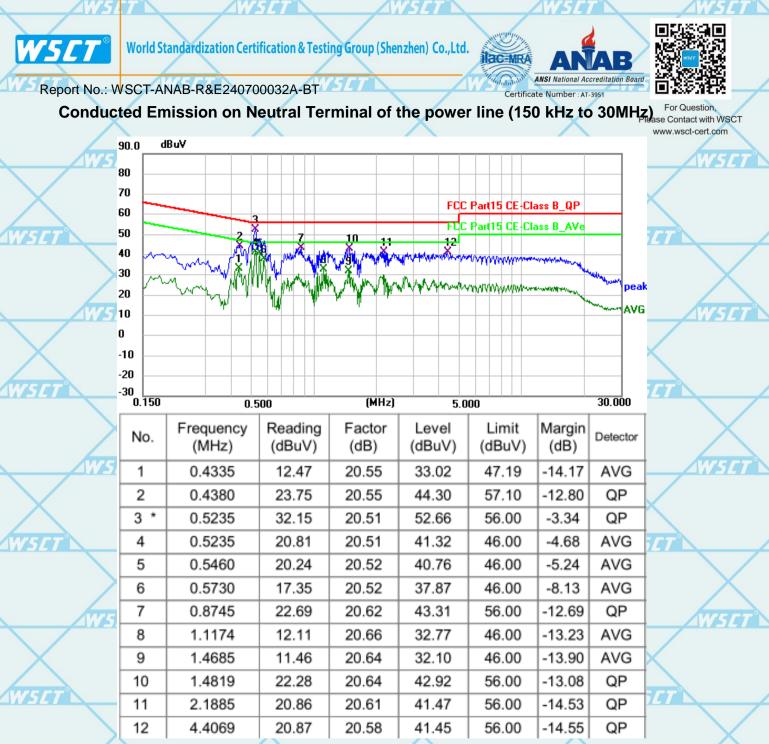
QP

QP

QP



ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china 世标检测认证股份 TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com



Note1:

tion & Testi

WSEI

MON \* PI

Freq. = Emission frequency in MHz

Reading level  $(dB\mu V) = Receiver reading$ 

Corr. Factor (dB) = LISN Factor + Cable loss

Measurement  $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$ 

Limit  $(dB\mu V) = Limit$  stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$ 

Q.P. =Quasi-Peak AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

世标检测认证股份 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china Group (Shenzhen) Co., Ltd. TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com



151

151

fication & Testino

W5C1

PHOM \* PT

8

Test

Cor

zation

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

1517





For Question, Please Contact with WSCT www.wsct-cert.com

## 6.3. Conducted Output Power

Report No.: WSCT-ANAB-R&E240700032A-BT

#### 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2014
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) 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 Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
Test Result:	PASS

 Open Ref ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Member of the WSCT INC.

N51



15 E

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSET





For Question, Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-ANAB-R&E240700032A-BT

#### 6.3.2. Test Data

	GFSK mode						
Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result				
Lowest	7.7	20.97	PASS				
Middle	8.99	20.97	PASS				
Highest	6.92	20.97	PASS				

Pi/4DQPSK mode					
Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result		
Lowest	7.075[7	20.97	PASS 77		
Middle	8.25	20.97	PASS		
Highest	6.31	20.97	PASS		
AWSET A		SET A			

8DPSK mode					
Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result		
Lowest	7.07	20.97	PASS		
Middle	8.38	20.97	PASS		
Highest	W5CT 6.30	20.97	PASS		

Test plots as follows:

ification & Testino

W5[1

PLIOM \* PI

S

zation

Group .

 Go Barting Constraint Street, Bao'an District Shenzhen, Guangdong china Tel: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 17 of 76



S

WSC1

PLIOM \* PI

zation

HOND

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSET





Report No.: WSCT-ANAB-R&E240700032A-BT



Good Street, Bao'an District Shenzhen, Guangdong china
 TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 18 of 76



zation

WSC1

PLIOM \* P

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

W5CT<sup>®</sup>





Report No.: WSCT-ANAB-R&E240700032A-BT



Page 19 of 76



ification & Testing

WSC1

PLIOM \* P

S

zation

Group

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSLT





Report No.: WSCT-ANAB-R&E240700032A-BT



Group (Shenzhen) Co., Ltd.
 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china
TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 20 of 76



ification & Testing

WSC1

PLIOM \* P

S

zation

Group

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSLT



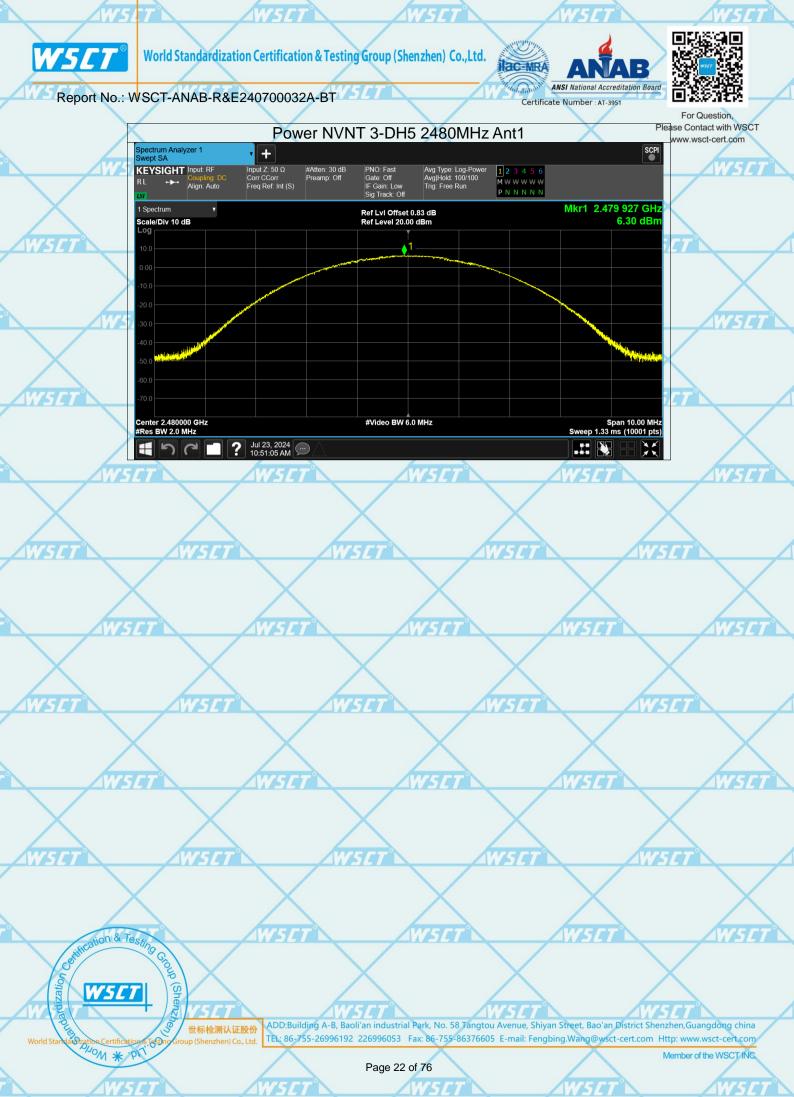


Report No.: WSCT-ANAB-R&E240700032A-BT



Group (Shenzhen) Co., Ltd.
 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china
TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Page 21 of 76





V5E

15E

ification & Testino

W5C1

PHOM \* PT

5

Test

S

zation

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

NSET





Report No.: WSCT-ANAB-R&E240700032A-BT

## 6.4. 20dB Occupy Bandwidth

For Question, Please Contact with WSCT www.wsct-cert.com

### 6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2014 W5CT W5CT	
Limit:	N/A	
Test Setup:	Spectrum Analyzer	ws
Test Mode:	Transmitting mode with modulation	
Test Procedure:	<ol> <li>The testing follows ANSI C63.10:2014 Measurement Guidelines.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤ RBW ≤ 5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>	
Test Result:	PASS	
		/

 Open Section Street, Bao'an District Shenzhen, Guangdong china TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

155

150

Member of the WSCT INC.

NSE



WSET<sup>°</sup>





For Question,

Please Contact with WSCT

Report No.: WSCT-ANAB-R&E240700032A-BT

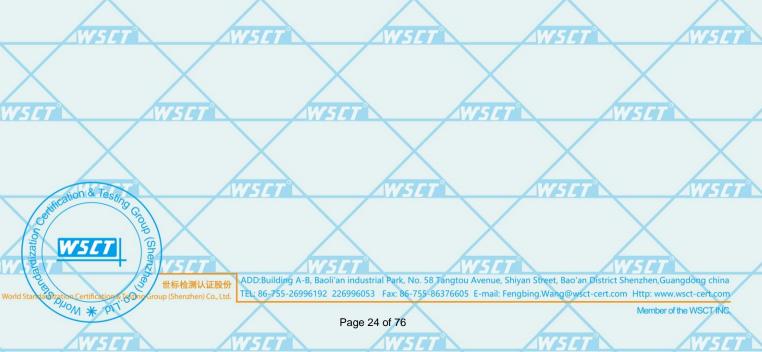
#### 6.4.2. Test data

Test channel	200	dB Occupy Band	/ Bandwidth (MHz)		
Test channel	GFSK	π/4-DQPSK	8DPSK	Conclusion	
Lowest	0.8122 🗡	1.281	1.288	PASS	
Middle	0.8628	1.277	1.291	PASS	
Highest	0.8610	1.283	1.304	PASS	

WSF1

Test plots as follows:

155



W5





∎Di3



WSLT





WSET





Report No.: WSCT-ANAB-R&E240700032A-BT



Page 26 of 76



WSETN





Report No.: WSCT-ANAB-R&E240700032A-BT





WSETN





Report No.: WSCT-ANAB-R&E240700032A-BT







15

15

fication & Testino

W5C1

PLIOM \* PI

0

Test

Cot

zation

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

NSET





For Question, Please Contact with WSCT www.wsct-cert.com

# 6.5. Carrier Frequencies Separation

## 6.5.1. Test Specification 507

Report No.: WSCT-ANAB-R&E240700032A-BT

1			
	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
7	Test Method:	ANSI C63.10:2014 W5LT W5LT	
_	Limit:	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.	
7	Test Setup:	Spectrum Analyzer EUT	
	Test Mode:	Hopping mode	
	Test Procedure:	<ol> <li>The testing follows ANSI C63.10:2014 Measurement Guidelines.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.</li> </ol>	
	Test Result:	PASS	

ダーク
 ダーク

NSE



757

151

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

W5CT<sup>°</sup>





For Question, Please Contact with WSCT www.wsct-cert.com

Report No.: WSCT-ANAB-R&E240700032A-BT

### 6.5.2. Test data

GFSK mode				
Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result	
Lowest	1VSET	0.541	PASS	
Middle	1.002	0.575	PASS	
Highest	0.998	0.574	PASS	

Pi/4 DQPSK mode				
Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result	
Lowest	0.998	0.854	PASS	
Middle	0.998	0.851	PASS	
Highest	WSET 1	(SCT 0.855	SCT PASS	

8DPSK mode				
Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result	
Lowest	1.002	0.859	PASS	
Middle	0.994	0.861	PASS	
Highest	1.008	0.869	PASS	

Test plots as follows:

ification & Testino

W5[7

PLIOM \* PT

S

zation

Group .

6SD

Content of the section of th

Page 31 of 76

Member of the WSCT INC.

151



WSET





Report No.: WSCT-ANAB-R&E240700032A-BT



Page 32 of 76

TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

世标检测认证股份

69

MOLLO \* MOLLO



e

WSC1

MOLLO \* MOLLO

Zation

HOUP

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSETN





Report No.: WSCT-ANAB-R&E240700032A-BT



Generation Concentration Concentrati



Zation

WSC1

OLIOM \* PI

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSET





Report No.: WSCT-ANAB-R&E240700032A-BT



Page 34 of 76



incation & Testing

WSC1

OLIOM \* PI

e

Zation

Group

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSET

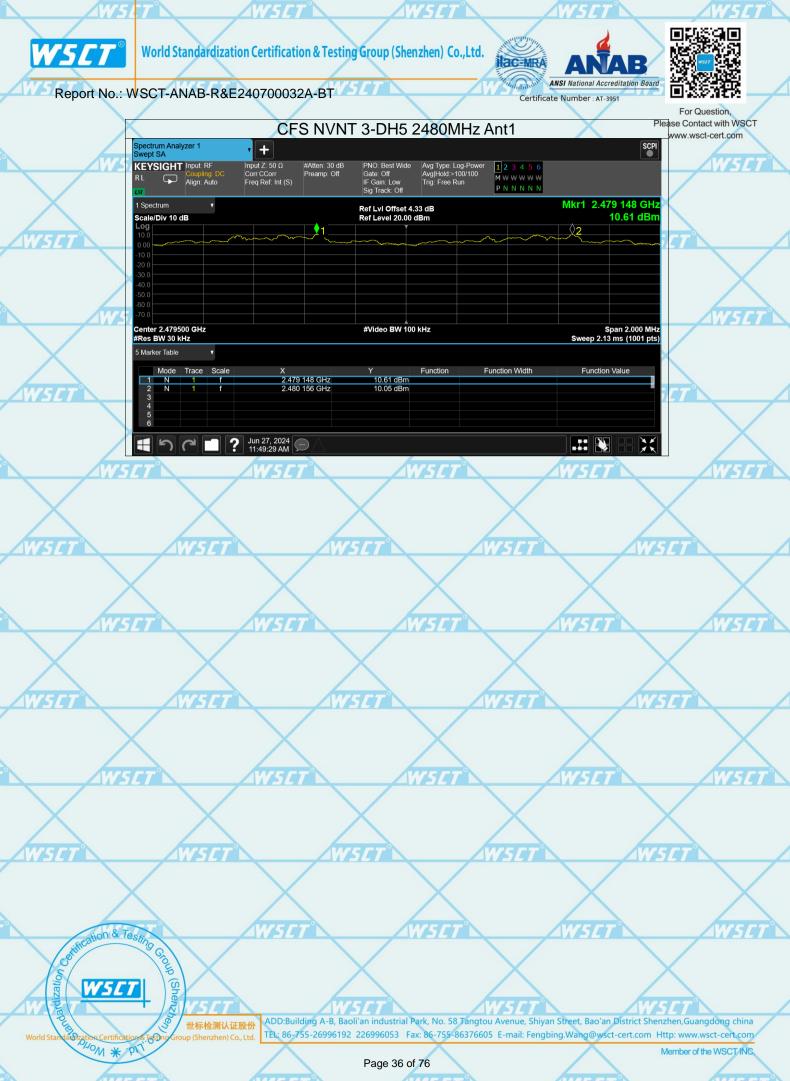




Report No.: WSCT-ANAB-R&E240700032A-BT



Good Street, Bao'an District Shenzhen, Guangdong china
 Tel: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com





fication & Testino

W5[7

PLIOM \* PI

6SD

Cer

Zation

World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

WSET





For Question, Please Contact with WSCT www.wsct-cert.com

## 6.6. Hopping Channel Number

Report No.: WSCT-ANAB-R&E240700032A-BT

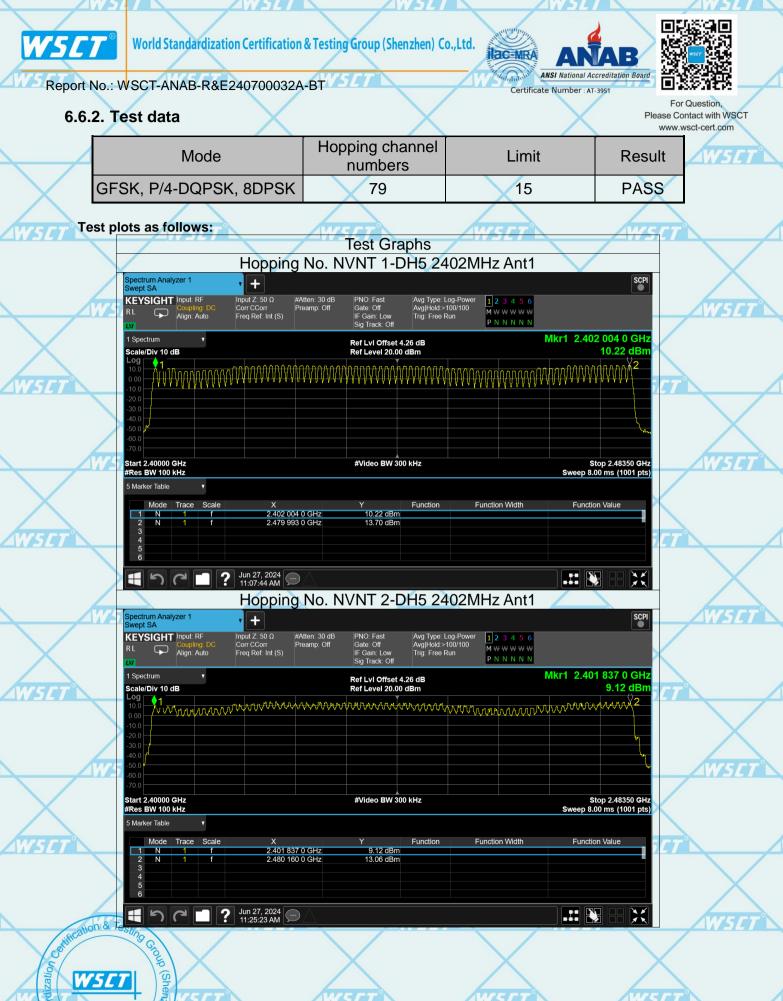
#### 6.6.1. Test Specification

X	X X X		
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2014		
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.	$\geq$	
Test Setup:		1W51	
	Spectrum Analyzer EUT		
Test Mode:	Hopping mode	$\overline{}$	
Test Procedure:	<ol> <li>The testing follows ANSI C63.10:2014 Measurement Guidelines.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>The number of hopping frequency used is defined as the number of total channel.</li> <li>Record the measurement data in report.</li> </ol>		
Test Result:	PASS		
		WIR!	

です。 アクリンティング WSCT 世际检测认证股份 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

Member of the WSCT INC.

151



世标检测认证股份 ADD:Building A-B, Baoli'an industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District Shenzhen, Guangdong china Group (Shenzhen) Co., Ltd. TEL: 86-755-26996192 226996053 Fax: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

MOM \* P