





For Question,
Please Contact with WSCT

WSET

TEST REPORT

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WSET"

FCC ID: 2AIZN-X6720

Product: Mobile Phone

Model No.: X6720

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E240700031A-BT

Issued Date: 12 August 2024

WSET

Issued for:

WSET

INFINIX MOBILITY LIMITED

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

7

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

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only, and shall be noted in the revision section of the document. The test results in the report only

apply to the tested sample.

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Test Certification 1.

Mobile Phone

X6720 Model No.:

Additional Model:

Product:

Infinix

INFINIX MOBILITY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN Applicant:

MEI STREET FOTAN NT HONGKONG

INFINIX MOBILITY LIMITED

Manufacturer: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

Date of receipt: 16 June 2024

Date of Test: 17 June 2024 to 09 August 2024

Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247 Standards:

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 Shuiguan)

(Wang Xiang)

Approved By:

on & Tes

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Date:

(Liu Fuxin)

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Certificate Number : AT-3951

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2. **Test Result Summary**

-	/ VZ-15-6 / VZ-15		AWS TO
	Requirement	CFR 47 Section	Result
	Antenna Requirement	§15.203/§15.247 (c)	PASS
	AC Power Line Conducted Emission	§15.207	PASS
	Maximum conducted output power	§15.247 (b)(1) §2.1046	W5L PASS
0	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS
	Carrier Frequencies Separation	§15.247 (a)(1)	PASS
_	Hopping Channel Number	§15.247 (a)(1)	W5_PASS
	Dwell Time	§15.247 (a)(1)	PASS
0	Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS/577
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS

Note:

- 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.

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3. EUT Description

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	Product Name:	Mobile Phone W5CT W5CT	NSET
	Model :	X6720	
	Trade Mark:	Infinix MASET	
<i>u</i>	Software version:	X6720-H353RS-U-OP-240531V276	
	Hardware version:	V1.2	\wedge
	Operation Frequency:	2402MHz~2480MHz	NSET
	Channel Separation:	1MHz	
7	Number of Channel:	79 WSET WSET WSET	
	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK	
	Antenna Type:	FIPA Antenna	WST
	Antenna Gain:	-1.62dBi	Vall
	Operating Voltage:	Adapter1: U180XSA Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.4A or 7.5V2.4A 18.0W MAX Adapter2: U100XSA Input: 100-240V~50/60Hz 0.3A Output: 5.0V2.0A Rechargeable Li-ion Polymer Battery Model: BL-5ABX Rated Voltage: 3.87V Rated Capacity: 4900mAh/18.97Wh Typical Capacity: 5000mAh/19.35Wh Limited Charge Voltage: 4.45V	MSGI
	Remark:	N/A.	

Note: 1. N/A stands for no applicable.

2. Antenna gain provided by the customer.

World Standard Zation & Testing Green Standard Standard

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Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK

7	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
0		WSET		WSET		AWSET	\	W.SET"
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	ATT THE		ATTE		KUUSI		ATTI	
7	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.

W5	47	WSET	WSET	WSET	WSET
X	X	X			
WSET	WSET	WSET	W5	TT WS	[T
WS	47	WSET	WSET	WSET	WSET
WSET	WSET	WSET	WS	WS	ET.
WS		WSET	WSET	WSET	WSET
WSET	WSET	WSET	W.5	GT WS	ET.

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4. Genera Information

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4.1. Test environment and mode

	Operating Environment:	
0	Temperature:	25.0 °C
	Humidity:	56 % RH
	Atmospheric Pressure:	1010 mbar
	Test Mode:	
	Engineering mode:	Keep the EUT in continuous transmitting
0	WSET	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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	1	1	1	X /

Note:

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

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5. Facilities and Accreditations

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5.1. Facilities

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

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

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5.3. Measurement Uncertainty

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

	connae	nce of approximately 95 %.	
	No.	Item	MU
0	1	Duty Cycle and Tx-Sequence and Tx-Gap	±1%557
	2	Dwell Time and Minimum Frequency Occupation	±1.2%
	3 _{W5C}	Medium Utilisation Factor	±1.3%
/	4	Occupied Channel Bandwidth	±2.4%
	5	Transmitter Unwanted Emission in the out-of Band	±1.3%
	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
	7	Receiver Spurious Emissions	±2.5%
	8 _{W5C}	Conducted Emission Test W577	v5//±3.2dB
	9	RF power, conducted	±0.16dB
	10	Spurious emissions, conducted	±0.21dB
	11	All emissions, radiated(<1GHz)	±4.7dB
	12	All emissions, radiated(>1GHz)	±4.7dB
	13/5/	Temperature W5ET W5ET	<i>V5</i>
	14	Humidity	±2.0%

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5.4. MEASUREMENT INSTRUMENTS

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							_
NAME OF EQUIPMENT		MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	7
	Test software		EZ-EMC	CON-03A	-	X-	
Ź	Test software	1	MTS8310	WSET	- /	VSET	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016/5/	04/10040	11/05/2023	11/04/2024	2
/	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
į	Coaxial cable	Megalon	75 LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	/
_	Pre Amplifier	H.P.	HP8447E 5	2945A02715	11/05/2023	11/04/2024	1
	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
	9*6*6 Anechoic	-	151	WSU	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	
Horn Antenna		SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	7
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
ý	Turn Table	ccs	15 E N/A	N/A	N.C.R	N.C.R	
	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	11/05/2023	11/04/2024	_
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	A
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
3	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
N.	Power sensor	Anritsu	MX248XD	/	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	

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6. Test Results and Measurement Data

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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:

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

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6.2. **Conducted Emission**

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6.2.1. Test Specification

6.2.1. Test Specification						
Test Requirement:	FCC Part15 C Section 15.207					
Test Method: 577	ANSI C63.10:2014	WSET	WSET			
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto			
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	AbuV) Average 56 to 46* 46 50			
	Reference	Plane				
WSET WSET	40cm 40cm AC power Test table/Insulation plane	BOCM Filter EMI Receiver	— AC power			
WSET	Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Net Test table height=0.8m	twork	4			
Test Mode:	Refer to item 4.1					
WSET	1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.					
Test Procedure:	The peripheral device power through a LIS coupling impedance refer to the block photographs).	SN that provides with 50ohm term	a 50ohm/50uH nination. (Please			
c tion & Testing Q	3. Both sides of A.C. conducted interferen emission, the relative the interface cables (ANSI C63.10:2014 o	ce. In order to fire positions of equinate the changed	nd the maximum ipment and all of according to			
Test Result:	N/A					

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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.

WSET	WSI	7° W	SET	WSET	WSET
WSET	WSET	WSET	WSET	\times	
WSCI	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		1500	WSET	WSET
WSET	WSET	WSET	\times	\times	
WSEI	$\langle \hspace{0.1cm} \rangle$		1501	WSET	WSET
WSET	WSET	WSET	WSCT	\times	
Wiser	$\langle \ \rangle$		1501	WSET	WSET
WSET	WSET	WSET	WSCT	\times	
$\langle \hspace{0.1cm} \hspace{0.1cm}$	$\langle \ \rangle$		YSET .	WSET	WSET
Seithcation & Testing WSET	Group (Shenz	WSET	WSET	WSG	
World Start Value Certification of Ta	世标检测认证股份 (Shenzhen) Co., Ltd. TEL: 86	ilding A-B, Baoli'an industrial Pa	rk, No. 58 Tangtou Avenue, Shiy : 86-755-86376605 E-mail: Feng	an Street, Bao'an District Shenzhen,G bing.Wang@wsct-cert.com Http: wv	







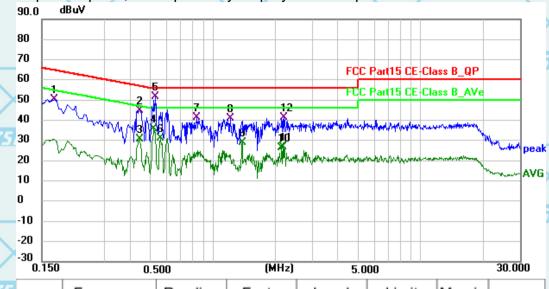
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Test data

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz) For multiple adapters, the report only displays the adapter with the worst data.



5	No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	
	140.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	
	1	0.1725	29.50	20.71	50.21	64.84	-14.63	QP	×
	2	0.4425	24.23	20.54	44.77	57.01	-12.24	QP	3
	3	0.4425	10.05	20.54	30.59	47.01	-16.42	AVG	4
	4	0.5190	15.26	20.51	35.77	46.00	-10.23	AVG	
	5 *	0.5280	30.98	20.51	51.49	56.00	-4.51	QP	
2	6	0.5595	10.74	20.52	31.26	46.00	-14.74	AVG	
	7	0.8385	20.75	20.60	41.35	56.00	-14.65	QP	
	8	1.2210	20.41	20.66	41.07	56.00	-14.93	QP	
	9	1.3829	8.34	20.65	28.99	46.00	-17.01	AVG	2
	10	2.1435	5.66	20.61	26.27	46.00	-19.73	AVG	
	11	2.1840	6.19	20.61	26.80	46.00	-19.20	AVG	
5	12	2.1929	20.72	20.61	41.33	56.00	-14.67	QP	

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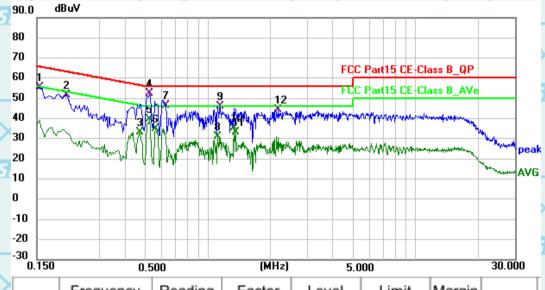




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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) se Contact with WSCT

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>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
2/	1	0.1545	34.67	20.73	55.40	65.75	-10.35	QP	
	2	0.2085	30.99	20.68	51.67	63.26	-11.59	QP	×
	3	0.4695	12.77	20.53	33.30	46.52	-13.22	AVG	
_	4 *	0.5235	32.17	20.51	52.68	56.00	-3.32	QP	2
	5	0.5235	19.17	20.51	39.68	46.00	-6.32	AVG	
	6	0.5595	14.40	20.52	34.92	46.00	-11.08	AVG	
5	7	0.6270	25.88	20.53	46.41	56.00	-9.59	QP	
	8	1.1220	10.56	20.66	31.22	46.00	-14.78	AVG	
	9	1.1445	25.31	20.66	45.97	56.00	-10.03	QP	7
	10	1.3335	14.90	20.65	35.55	46.00	-10.45	AVG	Ę
	11	1.3605	12.54	20.65	33.19	46.00	-12.81	AVG	1
>	12	2.1885	23.74	20.61	44.35	56.00	-11.65	QP	

Note1:

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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 (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

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

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Conducted Output Power 6.3.

6.3.1. Test Specification

FCC Part15 C Section 15.247 (b)(3)
ANSI C63.10:2014
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.
Spectrum Analyzer EUT
Transmitting mode with modulation
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.
PASS



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6.3.2. Test Data

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GFSK mode					
Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result		
Lowest	8.24	20.97	PASS		
Middle	9.58	20.97	PASS		
Highest	7.66	20.97	PASS		

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Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result
Lowest	7.58	20.97	PASS
Middle	8.85	20.97	PASS
Highest	6.86	20.97	PASS

	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result
	Lowest	7.65	20.97	PASS
	Middle	8.82	20.97	PASS
7	Highest	W5 CT 6.87	5 <i>[1</i> 20.97 W	5CT PASS

Test plots as follows:

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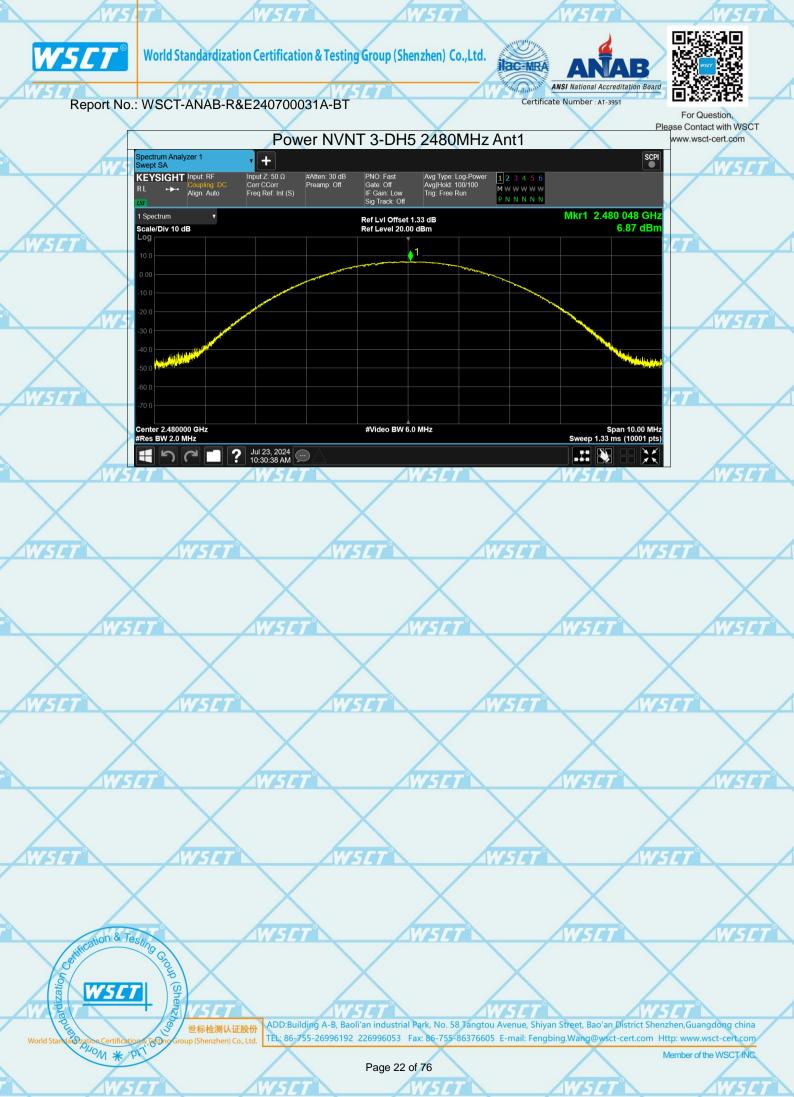


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6.4. 20dB Occupy Bandwidth

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6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014 W5ET W5ET
Limit:	N/A
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation W5
Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Set to the maximum power setting and enable the EUT transmit continuously. 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. Measure and record the results in the test report.
Test Result:	PASS

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6.4.2. Test data

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5	Test channel	20dB Occupy Bandwidth (MHz)				
	rest charmer	GFSK	π/4-DQPSK	8DPSK	Conclusion	
	Lowest	0.8572	1.265	1.289	PASS	
	Middle	0.8477//5/	1.267	1.256	PASS // 5	
	Highest	0.8400	1.282	1.276	PASS	

	Highest	0.8400	1.282	1.276	PASS	
Test pl	ots as follows:	WSCT	WSET		WSET	WSCT
WSET	WSET	W.51		WSET	W/S	
Wis	7	WSET	WSGT		WSET	WSET
WSET	WSUT	W.51	470	WSET	W/S	E7°
WS	77	WSLT	WSET		WSET	WSET
WSCT	WSET	WS		WSCT	NV/S	
WS	47	WSLT	WSET		WSET	WSET
WSET	WSET	W5		WSCT		
ification & Te	Stine	WSET	WSET		WSET	WSET

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For Question

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Please Contact with WSCT -20dB Bandwidth NVNT 2-DH5 2441MHz Ant1 www.wsct-cert.com pectrum Analyzer 1 occupied BW Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 2.441000000 GHz Avg|Hold: 100/100 Radio Std: None Atten: 30 dB Preamp: Off KEYSIGHT Input: RF Align: Auto Mkr3 2.441627000 GHz 1 Graph Ref LvI Offset 4.28 dB Ref Value 24.28 dBm -11.42 dBm Scale/Div 10.0 dB Center 2.441000 GHz #Res BW 30.000 kHz #Video BW 91,000 kHz Span 2 MHz Sweep 2.67 ms (10001 pts) 2 Metrics Measure Trace Trace 1 Occupied Bandwidth
1.1586 MHz 16.9 dBm Total Power % of OBW Power x dB Transmit Freq Error 99.00 % -20.00 dB -6.803 kHz 1.267 MHz **?** Jul 15, 2024 2:19:21 PM 50 -20dB Bandwidth NVNT 2-DH5 2480MHz Ant1 + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.480000000 GHz Avg|Hold: 100/100 Radio Std: None Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB Preamp: Off Align: Auto Mkr3 2.480634000 GHz Ref LvI Offset 4.33 dB Ref Value 24.33 dBm -13.74 dBm Scale/Div 10 0 dB Center 2.480000 GHz #Res BW 30.000 kHz #Video BW 91.000 kHz Span 2 MHz Sweep 2.67 ms (10001 pts) 2 Metrics Measure Trace Trace 1 Occupied Bandwidth
1.1711 MHz Total Power 14.0 dBm % of OBW Power Transmit Freq Error x dB Bandwidth -6.765 kHz 1.282 MHz 99.00 % -20.00 dB * *



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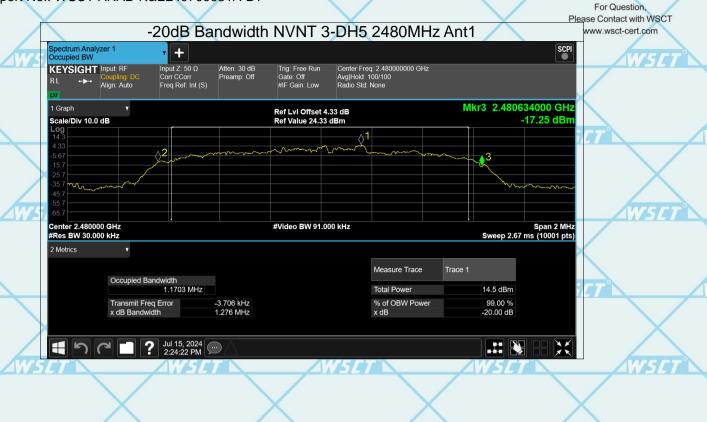


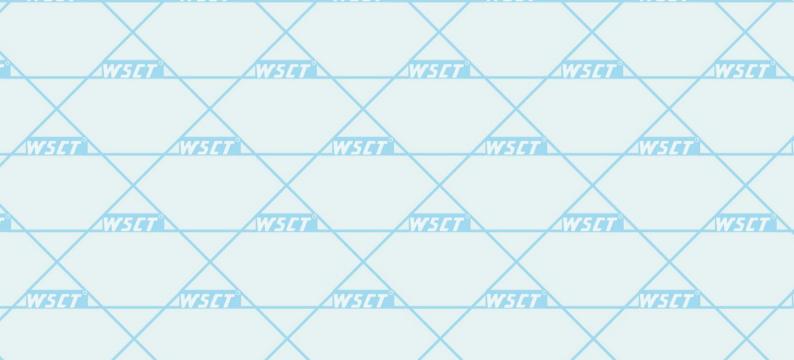


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6.5. Carrier Frequencies Separation

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014 W5[7] W5[7]
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.
Test Setup:	Spectrum Analyzer EUT WSET
Test Mode:	Hopping mode
	 The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Set to the maximum power setting and enable the EUT transmit continuously.
Test Procedure:	 Enable the EUT hopping function. 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. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Test Result:	PASS

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6.5.2. Test data

	GFSK mode				
Test channel	Test channel Carrier Frequencies Limit (2/3*20dB BV Separation (MHz) MHz)				
Lowest	0.96	0.571	PASS		
Middle	1	0.565	PASS		
Highest	1.004	0.560	PASS		

Pi/4 DQPSK mode					
1	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result	
	Lowest	1	0.843	PASS	
	Middle	1	0.845	PASS	
	Highest	W5ET 1.002 W	5.7 0.855 M	5CT PASS	

0	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
	Lowest	1.004	0.859	PASS
	Middle	0.996	0.837	PASS
7	Highest	1.008	0.851	PASS

Test plots as follows:

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Function Value

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For Question Please Contact with WSCT CFS NVNT 1-DH5 2480MHz Ant1 www.wsct-cert.com Spectrum Analyzer 1 Swept SA + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold:>100/100 Trig: Free Run M W W W W Align: Auto Mkr1 2.478 846 GHz Ref LvI Offset 4.29 dB Ref Level 20.00 dBm 1 Spectrum -0.28 dBm Scale/Div 10 dB Center 2.479500 GHz #Res BW 30 kHz Span 2.000 MHz Sweep 2.13 ms (1001 pts) #Video BW 100 kHz Function Width Function Value -0.2771 dBm -0.3282 dBm Mar 04, 2024 6:06:41 PM CFS NVNT 2-DH5 2402MHz Ant1 Spectrum Analyzer 1 Swept SA + PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold:>100/100 M W W W W W W KEYSIGHT Input: RF Align: Auto PNNNNN Mkr1 2.402 132 GHz Ref LvI Offset 4.19 dB Ref Level 20.00 dBm -1.93 dBm Scale/Div 10 dB #Video BW 100 kHz Center 2.402500 GHz #Res BW 30 kHz Span 2.000 MHz Sweep 2.13 ms (1001 pts) 5 Marker Table Function Width Function Value -1.929 dBm -1.887 dBm Mar 04, 2024 6:14:21 PM



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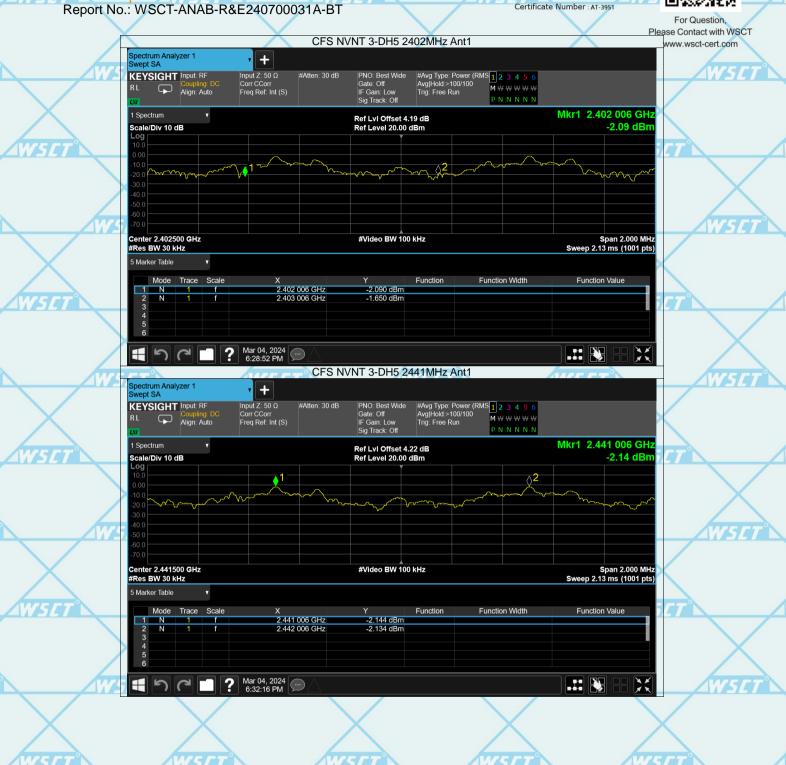
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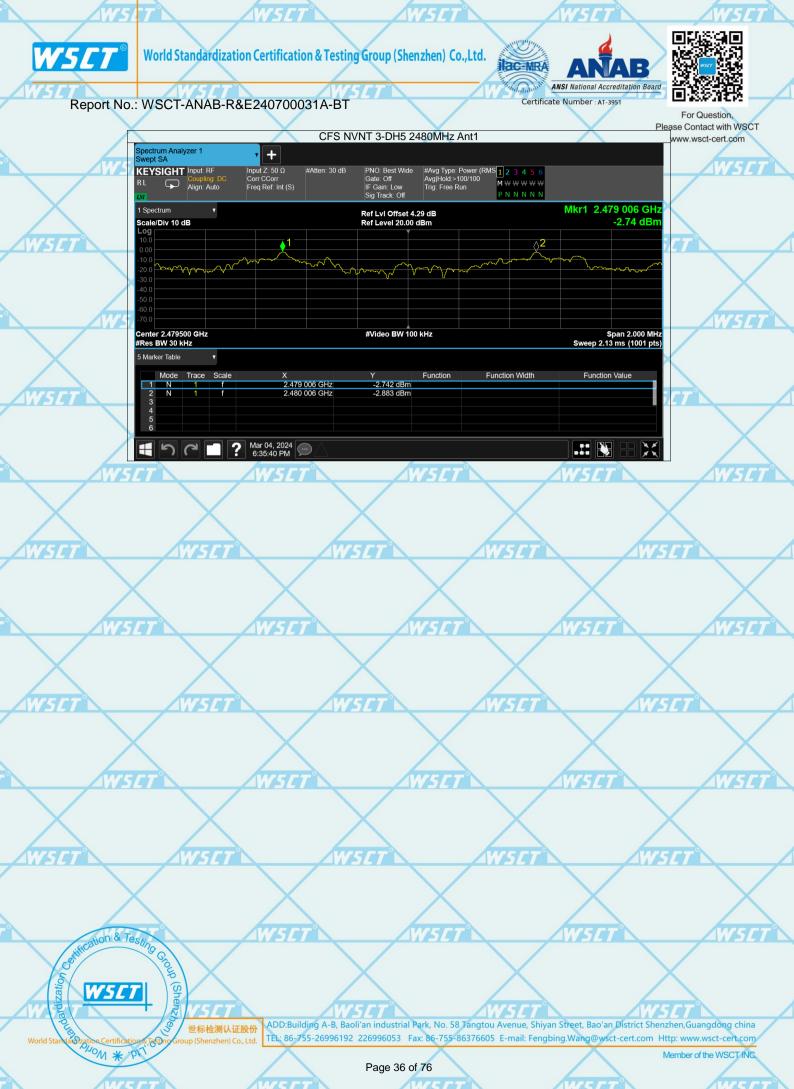




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Hopping Channel Number 6.6.

6.6.1. Test Specification

0	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.		
	Test Setup:	Spectrum Analyzer EUT W557		
	Test Mode:	Hopping mode		
	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. 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. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. 		
	Test Result:	PASS		

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6.6.2. Test data

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Mode	Hopping channel numbers	Limit	Result
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS



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