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# **TEST REPORT**

FCC ID: 2AIZN-X6720

**Product: Mobile Phone** 

Model No.: X6720

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E240700031A-Wi-Fi1

Issued Date: 12 August 2024

Issued for:

INFINIX MOBILITY LIMITED 5

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

Issued By:

W5

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

FAX: +86-755-86376605

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apply to the tested sample.

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### 1. Test Certification

Mobile Phone

Model No.: X6720

Additional Model:

**Product:** 

Infinix

Applicant:

INFINIX MOBILITY LIMITED

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

MEI STREET FOTAN NT HONGKONG

Manufacturer: INFI

**INFINIX MOBILITY LIMITED** 

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** 

Standards:

FCC CFR Title 47 Part 15 Subpart C Section 15.247

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:

(Wang Xiang)

Checked By:

(Qin Shuiquan)

Approved By:

(Liu Fuxin)

Dato:

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Certificate Number : AT-395

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#### **Test Result Summary** 2.

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Requirement		CFR 47 Section	Result
	Antenna requirement	§15.203/§15.247 (c)	PASS
	AC Power Line Conducted Emission	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PASS PASS
	Maximum Conducted Output Power	§15.247 (b)(3) §2.1046	W5C PASS
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
	Power Spectral Density	§15.247 (e)	PASS
	Band Edge W5/	1§5.247(d) §2.1051, §2.1057	PASS
6	Spurious Emission	§15.205/§15.209 §2.1053, §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:	Mobile Phone WSET WSET	N5E
	Model No.:	X6720	
	Trade Mark:	Infinix	
<i>y</i>	Software version:	X6720-H353RS-U-OP-240531V276	
	Hardware version:	V1.2	X
	Operation Frequency:	2412MHz~2462MHz (802.11b/g/n(HT20) 2422MHz~2452MHz (802.11n(HT40)	NSE
	Channel Separation:	5MHz	
7	Modulation type:	DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b OFDM/OFDMA(BPSK,QPSK,16QAM,64QAM,256QAM,) for IEEE 802.11g/n	
	Antenna Type:	FIPA Antenna	$\triangle$
	Antenna Gain	-1.62dBi	NSE
	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	WSL
7	Remark:	N/A.	
P			

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

2. Antenna gain provided by the customer.

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Operation Frequency each of channel For 802.11b/g/n(HT20)

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	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	△W5ET	2412MHz	W4 L T	2427MHz	ZV756	2442MHz	1054	2457MHz
	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n(HT40)

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	WEIT		4.	2427MHz	WELL	2442MHz	WIST	
7		-	5	2432MHz	8	2447MHz		-
	3	2422MHz	6	2437MHz	9	2452MHz		X

Note:

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

802.11b/g/n(HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n(HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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### 4. Genera Information

### 4.1. Test environment and mode

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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(The value of duty cycle is 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m 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. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

report and defined as follows:	ALE IS A LEGISLA						
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.							
WSET WSEN	lode WSET WSET						
80	2.11b						
802.11g							
802.11n(H20)							
802.1	1n(H40)						
Final Test Mode:							
Operation mode:	Keep the EUT in continuous transmitting with modulation						

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.2. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

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### 4.2. Description of Support Units

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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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter		U180XSA/ U100XSA	1	/
2	Earphone		N/A	1	/

#### Note:

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- 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, 6dB Emission Bandwidth, Power Spectral Density, 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.

WSET	WSET	WSET	WSET	WSET	
Wis				WSCT	WSIAT
WSET	WSET	WSET	WSET	WSET	
WS				WSET	WSET
WSET	WSET	WSET	WSET	WSET	
				X	X

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#### 5. Facilities and Accreditations

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#### 5.1. Facilities

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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./5/

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

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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 %.

_	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±2.4%
	3 <sub>N5</sub> [	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7	Humidity	±2.0%
	81151	Receiver Spurious Emissions W527 WS	±2.5%
	9	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
0	10	Transmitter Unwanted Emission in the out-of Band	±1.3%
	11	Occupied Channel Bandwidth	±2.4%

W5	ET W	SET	WSET	WSCT	WSET
WSET	WSET	WSLT	WSE		
WS		SET	WSET	WSET	WSLT
WSET	WSET	WSLT	$\times$		
		X	X		X

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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-	
Test software		MTS8310	WSCT	- /	VSCT	
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	7
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
Coaxial cable	Megalon	/5 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. 77	HP8447E 5/	2945A02715	11/05/2023	11/04/2024	7.
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		15141	Wister	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	
Turn Table	ccs	75 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	7
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
Power sensor	Anritsu	MX248XD	11213	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 Part	15 C Section	15.203 /247(c)
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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:**

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

6.2.1. Test Specification	The state of the s
Test Requirement:	FCC Part15 C Section 15.207
Test Method: V5[7]	ANSI C63.10:2014 W5[7] W5[7]
Frequency Range:	150 kHz to 30 MHz
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto
Limits:	Frequency range (MHz)         Limit (dBuV)           0.15-0.5         Quasi-peak         Average           0.5-5         56         46           5-30         60         50
	Reference Plane
Test Setup: W5CT	Test table/Insulation plane  Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network
Test Mode:	Charging + transmitting with modulation
WSET	<ol> <li>The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main</li> </ol>
Test Procedure:	power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
ication & Testing Q	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2014 on conducted measurement.
Test Result:	PASS

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#### 6.2.2. EUT OPERATING CONDITIONS

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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	WSET	WSET	WSET	WSET
WSET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		
WSET	WSET	WSET	WSET	WSET
WSET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		
WSET	WSET	WSET	WSET	WSET
WSET WS		$\langle \hspace{0.1cm} \rangle$		
WSET	W5ET*	WSET	WSET	WSET
$\times$	W5	$\langle \hspace{0.1cm} \rangle$		
Web.	WSET	WSET	WSET	WSET
World Stands of Zathon Certification & Testino Caroup (Sher	ET WS			740
World Standard Zation Certification Tation Group (Sher	<b>ADD:Building A-B, Baoli'a</b> TEL: 86-755-26996192 22	an industrial Park, No. 58 Tangtou Aven 26996053 Fax: 86-755-86376605 E-m. Page 14 of 73	ue, Shiyan Street, Bao'an District Shen ail: Fengbing.Wang@wsct-cert.com H	zhen,Guangdong china







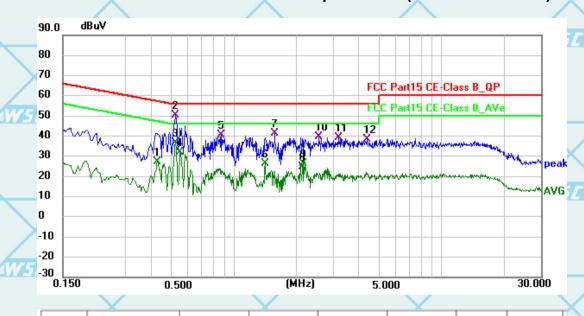
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### Please refer to following diagram for individual

### Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	3
	1	0.4245	6.86	20.56	27.42	47.36	-19.94	AVG	
	2 *	0.5235	30.01	20.51	50.52	56.00	-5.48	QP	
3	3	0.5235	16.25	20.51	36.76	46.00	-9.24	AVG	
	4	0.5505	11.52	20.52	32.04	46.00	-13.96	AVG	
	5	0.8700	19.70	20.61	40.31	56.00	-15.69	QP	>
	6	1.4144	5.80	20.65	26.45	46.00	-19.55	AVG	
1	7	1.5765	20.52	20.64	41.16	56.00	-14.84	QP	2
	8	2.1345	4.16	20.61	24.77	46.00	-21.23	AVG	
	9	2.1660	5.57	20.61	26.18	46.00	-19.82	AVG	
2	10	2.5710	19.12	20.60	39.72	56.00	-16.28	QP	
	11	3.1740	18.57	20.59	39.16	56.00	-16.84	QP	
	12	4.3620	17.63	20.58	38.21	56.00	-17.79	QP	1

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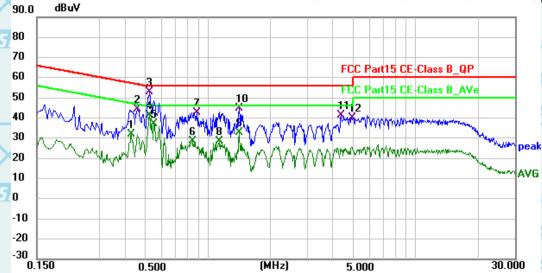






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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) For Question, asse Contact with WSCT 90.0 dBuV



. 1									
>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
5	1	0.4245	11.55	20.56	32.11	47.36	-15.25	AVG	
	2	0.4560	23.70	20.54	44.24	56.77	-12.53	QP	
	3 *	0.5235	32.38	20.51	52.89	56.00	-3.11	QP	
	4	0.5235	21.04	20.51	41.55	46.00	-4.45	AVG	7
	5	0.5505	16.56	20.52	37.08	46.00	-8.92	AVG	
	6	0.8430	7.69	20.60	28.29	46.00	-17.71	AVG	
E	7	0.8835	22.21	20.62	42.83	56.00	-13.17	QP	
2/	8	1.1310	8.02	20.66	28.68	46.00	-17.32	AVG	
	9	1.4144	12.13	20.65	32.78	46.00	-13.22	AVG	×
	10	1.4190	24.18	20.64	44.82	56.00	-11.18	QP	
	11	4.3620	20.58	20.58	41.16	56.00	-14.84	QP	7
	12	4.9064	19.66	20.57	40.23	56.00	-15.77	QP	

#### Note1:

Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = Antenna 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.

For multiple adapters, the report only displays the adapter with the worst data.

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6.2.3. Maximum Conducted Output Power

### 6.2.4. Test Specification

For Question,
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	WSFT WSF	7 WSTT	WSFT
7	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
	Test Method:	KDB 558074	
<b>7</b> °	Limit:	30dBm <sup>5</sup> [7]	WSET
7	Test Setup:	Spectrum Analyzer EU	7
	Test Mode:	Transmitting mode with modulation	
7	Test Procedure:	<ol> <li>The testing follows the Measureme FCC KDB No. 558074 DTS D01 I v04.</li> <li>The RF output of EUT was connect analyzer by RF cable and attenuate was compensated to the results for measurement.</li> <li>Set to the maximum power setting EUT transmit continuously.</li> <li>Measure the conducted output powersults in the test report.</li> </ol>	Meas. Guidance cted to the spectrum ator. The path loss or each and enable the
	Test Result:	PASS	
	ZW-57-17 ZW-57-5	W-7-1	WSCT



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6.2.5. Test Data		X	X		×	Please Contact with WSCT www.wsct-cert.com
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WSET	Mode	Frequency	Maximum	Limit	Verdict	CT WSET
		(MHz)	Conducted	(dBm)		
$\times$			Output Power (dBm)			X
August Au	b	2412	17.07	30	Pass	AVEC CT
WSET WS	b	2437	17.04	30	Pass	WSET
	b	2462	17.23	30	Pass	
	g	2412	18.30	30	Pass	
	g	2437 2462	18.19 <b>18.41</b>	30 30	Pass	
WSET	g n20	2402	18.16	30	Pass Pass	WSET
	n20	2437	18.11	30	Pass	
X	n20	2462	18.24	30	Pass	X
	n40	2422	17.07	30	Pass	
WSET	n40	2437	17.03	30	Pass	WSET
	n40	2452	17.13	30	Pass	
			X			
WSET	/	WSET	WSLT		W5	ET WSET
$\times$			X	X		X
WSET	ET.	V	VSET .	WSC		WSET
$\times$		$\times$	X			$\langle$
WSET		WSET	WSET		W5	CT WSCT
$\times$	<b>X</b>		X	X		$\times$
WSET	ET		VSCT .	WSG		WSCT
WSET	,	WSET	WSET		W5	ET WSET
		WE STATE	- LIFE		- IIFI	1126
August Au	122		VE CT	Augus		AVECT
W5ET WS	ET L		V5ET*	∠W5C		WSET
		August 1			-	
Selffication & Testino Co	_/	WSET	W5ET°		W5	ET" WSET"
Continue of the continue of th						
18/	X		X	X		X

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Report No.: WSCT-ANAB-R&E240700031A-Wi-Fi1

ase Contact with WSCT Power NVNT n40 2437MHz Ant1 www.wsct-cert.com Spectrum Analyzer 1 Channel Power SCPI **+** Center Freq: 2.437000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Preamp: Off #PNO: Fast Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Align: Auto 1 Graph Ref LvI Offset -0.72 dB Ref Value 19.28 dBm Scale/Div 10.0 dB energy throughout flow below atherful by the Miller of the work was now have Center 2.43700 GHz #Res BW 1.0000 MHz #Video BW 3 0000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) Total Channel Power 17 03 dBm / 40 0 MHz -58.99 dBm/Hz Total Power Spectral Density Power NVNT n40 2452MHz Ant1 Spectrum Analyzer 1 Channel Power SCPI **+** Center Freq: 2.452000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 40 dB Preamp: Off #PNO: Fast KEYSIGHT Input: RF Align: Auto Ref Lvl Offset -0.69 dB Ref Value 19.31 dBm Scale/Div 10.0 dB ghafishashhaf filliging physicing collows from والمراور الطور وريال لماري Span 80 MHz Sweep 1.00 ms (1001 pts) Center 2.45200 GHz #Res BW 1.0000 MHz #Video BW 3.0000 MHz 17.13 dBm / 40.0 MHz Total Channel Power -58.89 dBm/Hz Total Power Spectral Density



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## 6.3. Emission Bandwidth

### 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 W577
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation W577
Test Procedure:	<ol> <li>The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make</li> </ol>
Test Result:	an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.  4. Measure and record the results in the test report.  PASS



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### 6.3.2. Test data(worst)

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						7
	Mode	Frequency	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth	Verdict	
		(MHz)		(MHz)		
	b	2412	8.045	0.5	Pass	
	b	2437	7.102	W 5 / 0.5	Pass	9
1	b	2462	8.006	0.5	Pass	
	g	2412	8.569	0.5	Pass	
	g	2437	8.094	0.5	Pass	
	g	2462	8.046	0.5	Pass	
1	n20	2412	16.33	0.5 W 5 C T	Pass	
	n20	2437	14.69	0.5	Pass	7
	n20	2462	15.10	0.5	Pass	
	n40	2422	35.75	0.5	Pass	
	n40	2437	25.01	0.5	Pass	1
	n40	2452	21.30	5.0.5	Pass	

W	57.7	4W3L/	ZWSL/	W S L /	
WSET	WSET	WSET	$\rangle$		500
	SET	WSET	WSET	WSET	WSET
WSET	WSET	WSET	$\rangle$		SET
	SET	WSET	WSET	WSET	WSLT
WSET	WSET	WSET	$\rightarrow$		SET
	$\times$	WSET	WSET	WSET	WSET
Saithcation 8	Group Group		X		X

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13.510 MHz 20.5 dBm Total Power -238.35 kHz 8.045 MHz 99.00 % Transmit Freq Error % of OBW Powe x dB Bandwidth **?** Jul 15, 2024 .... 4:20:21 PM -6dB Bandwidth NVNT b 2437MHz Ant1 Spectrum Analyzer 1 Occupied BW + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.437000000 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





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ase Contact with WSCT -6dB Bandwidth NVNT g 2437MHz Ant1 www.wsct-cert.com SCPI pectrum Analyzer 1 Occupied BW + Center Freq: 2.437000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Mkr3 2.441469000 GHz Ref LvI Offset 0.28 dB Ref Value 20.28 dBm -1.39 dBm Scale/Div 10.0 dB Span 30 MHz Sweep 3.33 ms (10001 pts) Center 2.43700 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Measure Trace Occupied Bandwidth 13.076 MHz 20.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 421.48 kHz 8.094 MHz 99.00 % -6.00 dB Jul 15, 2024 ... 4:27:21 PM -6dB Bandwidth NVNT g 2462MHz Ant1 SCPI Spectrum Analyzer 1 Occupied BW **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.462000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Atten: 30 dB Preamp: Off Align: Auto Mkr3 2.465674000 GHz Ref LvI Offset 0.32 dB Ref Value 20.32 dBm -2.25 dBm Scale/Div 10.0 dB Span 30 MHz Sweep 3.33 ms (10001 pts) Center 2.46200 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Measure Trace Trace 1 Occupied Bandwidth 13.664 MHz 20.8 dBm Transmit Freq Error x dB Bandwidth -349.15 kHz 8.046 MHz % of OBW Po 99.00 % -6.00 dB **?** Jul 15, 2024 .... 



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17.522 MHz 18.2 dBm Transmit Freq Error x dB Bandwidth 144.24 kHz 14.69 MHz % of OBW Po 99.00 % -6.00 dB



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## 6.4. Power Spectral Density

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### 6.4.1. Test Specification

Test Setup:  Spectrum Analyzer  Test Mode:  Transmitting mode with modulation  1. The testing follows Measurement Procedure Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. The RF output of EUT was connected to the analyzer by RF cable and attenuator. The p was compensated to the results for each measurement.	X					
Test Setup:  Spectrum Analyzer  Test Mode:  Test Mode:  Transmitting mode with modulation  1. The testing follows Measurement Procedure Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. The RF output of EUT was connected to the analyzer by RF cable and attenuator. The p was compensated to the results for each measurement.						
Test Setup:  Spectrum Analyzer  Test Mode:  Transmitting mode with modulation  1. The testing follows Measurement Procedure Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. The RF output of EUT was connected to the analyzer by RF cable and attenuator. The p was compensated to the results for each measurement.	mark.					
Test Mode:  Transmitting mode with modulation  1. The testing follows Measurement Procedure Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. The RF output of EUT was connected to the analyzer by RF cable and attenuator. The p was compensated to the results for each measurement.	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.					
Test Mode:  Transmitting mode with modulation  1. The testing follows Measurement Procedure Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the analyzer by RF cable and attenuator. The p was compensated to the results for each measurement.	$\bigvee$					
The testing follows Measurement Procedure     Method AVGPSD of FCC KDB Publication     No.558074 D01 DTS Meas. Guidance v04     The RF output of EUT was connected to the     analyzer by RF cable and attenuator. The p     was compensated to the results for each     measurement.						
Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04  2. The RF output of EUT was connected to the analyzer by RF cable and attenuator. The p was compensated to the results for each measurement.	WSET 1					
<ul> <li>3. Set to the maximum power setting and enable EUT transmit continuously.</li> <li>4. Make the measurement with the spectrum a resolution bandwidth (RBW): 3 kHz ≤ RBW kHz. Video bandwidth VBW ≥ 3 x RBW. Set to at least 1.5 times the OBW.</li> <li>5. Detector = RMS, Sweep time = auto couple.</li> <li>6. Employ trace averaging (RMS) mode over a of 100 traces. Use the peak marker function.</li> </ul>	spectrum ath loss le the nalyzer's ≤ 100 the span minimum					
of 100 traces. Use the peak marker function determine the maximum power level.  6. Measure and record the results in the test results.  PASS	WSLT					

World Standard Stand

SET WSET

WSET WSET

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.







Certificate Number : AT-3951

Report No.: WSCT-ANAB-R&E240700031A-Wi-Fi1

6.4.2. Test data(worst)

Please Contact with WSCT

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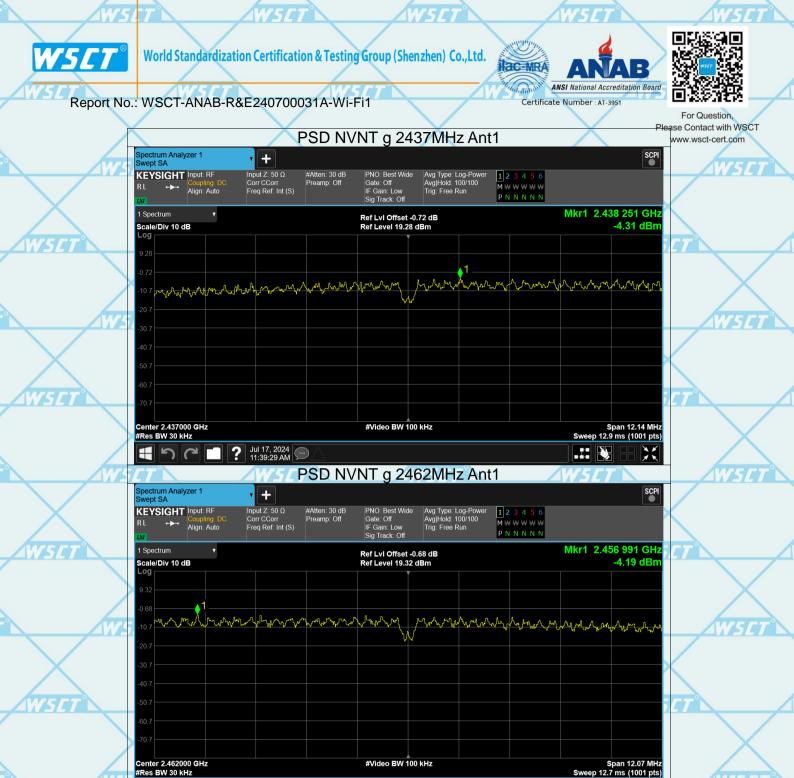


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