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TEST REPORT

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WS E7

W5 ET

FCC ID: 2ADYY-K16SAA

W5 ET

W5 ET

Product: Laptop Computer

Model No.: K16SAA

W5 CT W5 C Trade Mark: TECNO

W5C1

Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

Issued Date: 12 August 2024

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Issued for:

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TECNO MOBILE LIMITED /5 [T

WS CT

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

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World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China 🖰

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of the WSCT Group (WSCT)

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

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Product:

Laptop Computer

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WS E1

Model No.:

K16SAA

Trade Mark:

TECNO

W5ET Applicant:

TECNO MOBILE LIMITED

W5CT

W5 CT

W5 CT

Address:

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

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer:

TECNO MOBILE LIMITED V5 [7]

W5 CT

W5 CT

Address:

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

SHAN MEI STREET FOTAN NT HONGKONG

W5 [7] Date of Test:

11 April 2024 to 12 August 2024

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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 W5 FT same results due to production tolerance and measurement uncertainties.

WSCT W5 CT W5 CT WS ET her Checked By: Tested By: (Chen Xu) (Wang Xiang) W5 ET WSET WSET WSET Approved By: Date: /2 W5 E1 (Li Huaibi)

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

Test Result Summary

	WSIT	T WSCT	WSCT	W5ET°
/	Requirement	CFR 47 Section	Result	
	Antenna requirement	§15.203/§15.247 (c)	PASS	
7 °l	AC Power Line Conducted Emission	§15.207	PASS	\bigvee
_	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	W5 PASS	WSET
7	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
	Power Spectral Density	§15.247 (e)	PASS	$\overline{}$
	W5 C1 Band Edge	1§5.247(d) §2.1051, §2.1057	W5 C PASS	W5 CT
7	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	

Note:

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- 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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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

EUT Description 3.

	Product:	Laptop Computer W5 [T] W5 [T]	V5
\langle	Model No.:	K16SAA	
ΓT	Trade Mark:	TECNO WSCT WSCT	
	Operation Frequency:	2412MHz~2462MHz (802.11b/g/n/ax(HT20)) 2422MHz~2452MHz (802.11n/ax(HT40))	$ egthinspace{1.5em} $
	Channel Separation:	5MHz	
<	Modulation type:	DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b OFDM/OFDMA(BPSK,QPSK,16QAM,64QAM,256QAM,102 4QAM) for IEEE 802.11g/n/ax	VSLI
E T	Antenna Type:	Integral Antenna WS [7]	
	Antenna Gain	MAIN:3.46dBi ,AUX:3.01 dBi	
		Adapter1: E065-1R200325VU INPUT: 100-240V~50/60Hz, 1.5A OUTPUT:20.0V3.25A	WS ET
< 	Operating Voltage:	Rechargeable Li-ion Polymer Battery: K16S Nominal Voltage: 11.55V Rated Capacity: 6060mAh	
		Rated nergy:70.00Wh Limited Charge Voltage: 13.2V	
	Remark:	N/A.	
			V 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Configuration differences W5 [7]

Configuration/ Camera Processor 1M(Shengtai) K16SAA (i5) 1M(Visual Era) K16SAA (i7)

Note: The prototypes of both configurations have been tested, and the K16SAA (i7) has the worst test result, which is the main

test model reported

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W5CT



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

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

Channel Frequency | Channel | Frequency | Channel | Frequency | Channel Frequency 10 2457MHz 2412MHz 2427MHz 2442MHz 2417MHz 2462MHz 5 2432MHz 8 2447MHz 11 2 3 2422MHz 6 2437MHz 9 2452MHz

WS ET W5 CT

Operation Frequency each of channel For 802.11n/ax (HT40)

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
	WSCI		w4, r7	2427MHz	W75C	2442MHz	W/S/	7	W5
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/ax (HT20)

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

802.11n/ax (HT40)

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

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

4. Genera Information

report and defined as follows:

4.1. Test environment and mode

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	Operating Environment:					
	Temperature:	25.0 °C				
7	Humidity:	56 % RH	_			
	Atmospheric Pressure: 1010 mbar					
	Test Mode:		11/2			
7	Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)				
7 °	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 &					

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

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

Z) and considered typical configuration to obtain worst position, manipulating

Per-scan all kind of data rate in lowest channel, and found the follow list which it

W	vas worst case.			
9	WELT	WEEMada	WELT	WELT

802.11b

WSCT 802.11g

802.11n/ax(H20)

802.11n/ax(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

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.

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Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	E065-1R200325VU	X	/	TECNO

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

W5 [T]

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.

	antenna connector is s	soldered on the antenna po	rt of EUT, and the tempor	ary antenna connector i	s listed in the
	Test Instruments.	WSCT	WSET	WSCT	WSET
WSCT	WSET	WSCT	WS		VSET*
	WSCT	WSCT	WSCT	WSET	WSET
WSCT	WSET	WSCT	WS	T V	VS ET
	WSET	WSCT	WSET	WSET	WSET
WSCT	WSET	WSCT	WS	T V	VS ET
	W5 ET	WSET	WSET	WSET	
WSET	WSET	WSCT			WSCT WSCT

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World Standard Standard

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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

5. Facilities and Accreditations

5.1. Facilities

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All measurement facilities used to collect the measurement data are located at World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China

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

ANAB - Certificate Number: AT-3951

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

		ation Number: AT-395			
W5	LT° WS	ET WS	LT W5	CT° W	'S CT'
\times	\times	\times	\times	\times	
WSET	WSCT	W5ET*	W5ET*	WSLT	
					$\overline{}$
W5	ET WS	ET WS	ET W5	ET W	SET
\times	\times	\times	\times	X	
WSET	WSET	WSET	WSET	WSET	
					\wedge
W5	CT" W5	ET° WS	LT WS	CT W	SET®
\sim	\sim			\sim	
WSET	WSET	WSET	WSET	WSET	
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		< /			X
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				\(\frac{1}{2}\)	Group
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5.3. Measurement Uncertainty

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 %.

X	connae	nce of approximately 95 %.	X	
	No.	Item	MU	
W5 CT°	1	Conducted Emission Test	±3.2dB	$\overline{}$
	2	RF power, conducted	±0.16dB	X
	3W5[Spurious emissions, conducted ws [7]	±0.21dB	W5 ET
	4	All emissions, radiated(<1GHz)	±4.7dB	
	5	All emissions, radiated(>1GHz)	±4.7dB	
W5 ET°	6	Temperature	±0.5°C	$\overline{}$
	7	Humidity	±2.0%	X
	W5 C	T° WSCT° WSCT° WS	CT°	WSET
\sim		\times		
W5 CT		WSET WSET WSET	WS ET*	
AIFIGE			/ 11213	$\overline{}$
	X	$\langle $	X	\times
	W5 E	T WS ET WS ET WS	ET	W5CT
\times		\times	\times	
W5 ET		WSET WSET WSET	WSET	
ZUEIGI				
	X	$\langle $		\times
	W5 C	T WS CT WS CT WS	CT .	W5CT
\times		\times	\times	
WSLT		WSCT WSCT WSCT	WSET	
Z11-15/A				$\overline{}$
	X			
	W5 E	T WSET WSET WS	Controcations	Testing CT°
X				Jound (8

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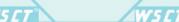


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5.4.MEASUREMENT INSTRUMENTS

	WELT	WELT	WE	CT°	WELT	THE STATE OF THE S	5
×	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
.,	Test software		EZ-EMC	CON-03A	- /-	VE ET	
L	Test software		MTS8310	THE IS	-	-	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	×
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	5
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
X	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
	Coaxial cable	Megalon	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 W5	100114	11/05/2023	11/04/2024	5
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
^	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
L	Bi-log Antenna W	SCHWARZBECK	VULB9168	01488 [7]	11/05/2023	11/04/2024	
	9*6*6 Anechoic		\		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
X	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
37	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
_	Turn Table	ccs	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	67 -	11/05/2023	11/04/2024	5
_	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
L	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
	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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Test Results and Measurement Data 6.

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:

The Wi-Fi antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is "MAIN:3.46dBi ,AUX:3.01dBi"

I ECUO **MAIN ANT1**

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(NANT/NSS=1) dB$.

For power measurements on IEEE 802.11 devices,

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Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 .

Directional gain may be calculated by using the formulas applicable to equal gain antennas with

GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., /W5[7]

F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The directional gain "DG" is calculated as following table.

<cdd modes=""></cdd>	Ant1	Ant2	DG for power	DG for PSD	
<cdd iviodes=""></cdd>	(dBi)	(dBi)	(dBi)	(dBi)	
2412~2462MHz	3.46	3.01	3.46/5//	6.25 W5C	

Power limit reduction = Composite gain – 6dBi, (min = 0) PSD limit reduction = Composite gain + PSD Array gain - 6dBi=0.25

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6.2. Conducted Emission

6	2.1. Test Specification		Mall
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	2.11. Test opecification		
	Test Requirement:	FCC Part15 C Section 15.207	
W5ET°	Test Method: 5 CT	ANSI C63.10:2014 W5 [7] W5 [7]	
	Frequency Range:	150 kHz to 30 MHz	\times
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	W5 CT
WSET	Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50	
		Reference Plane	
X	WSET WSE	40cm 80cm LISN Filter AC power	WSCT
WSET	Test Setup: W5 [T] W5 [T] W5 [T]	Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	WSET
	Test Mode:	Charging + transmitting with modulation	
WSET	WSET	1. 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.	X
WSET	Test Procedure:	2. The peripheral devices are also connected to the main 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).	WSLI
	WSET WSE	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.	Testing
X	Test Result:	PASS WS	To Group (Sh





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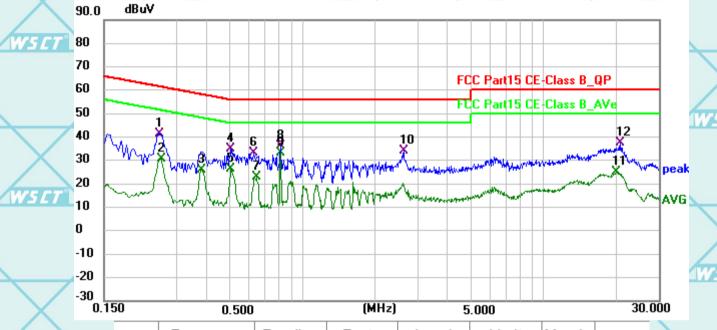
Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

6.2.2. Test data(worst case)

Please refer to following diagram for individual

The worst mode is 11b

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



WSET	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	ĽΤ
	1	0.2535	20.80	20.66	41.46	61.64	-20.18	QP	
	2	0.2580	9.93	20.66	30.59	51.50	-20.91	AVG	
W.s	3	0.3795	5.43	20.58	26.01	48.29	-22.28	AVG	
	4	0.5055	14.44	20.51	34.95	56.00	-21.05	QP	/
	5	0.5055	5.67	20.51	26.18	46.00	-19.82	AVG	
WSET	6	0.6270	12.49	20.53	33.02	56.00	-22.98	QP	ET.
	7	0.6450	2.44	20.53	22.97	46.00	-23.03	AVG	
	8	0.8115	15.61	20.59	36.20	56.00	-19.80	QP	
WS	9 *	0.8115	12.72	20.59	33.31	46.00	-12.69	AVG	
	10	2.6295	13.61	20.60	34.21	56.00	-21.79	QP	
X	11	20.0040	4.68	20.26	24.94	50.00	-25.06	AVG	
A	12	20.7465	17.28	20.31	37.59	60.00	-22.41	QP	
W5CT"		LIPIA N				APIS N			4

AWS CT

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WSET

WSET

VSCT WSC

WS CT

AWS CT

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WSET WS

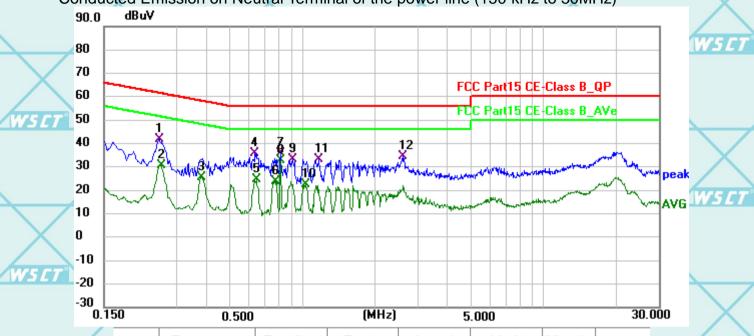






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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



WS	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	_
X	1	0.2535	21.17	20.66	41.83	61.64	-19.81	QP	
	2	0.2580	9.93	20.66	30.59	51.50	-20.91	AVG	
SET N	3	0.3795	4.91	20.58	25.49	48.29	-22.80	AVG	CT .
	4	0.6360	15.32	20.53	35.85	56.00	-20.15	QP	
	5	0.6450	4.17	20.53	24.70	46.00	-21.30	AVG	
W.s	6	0.7755	3.42	20.57	23.99	46.00	-22.01	AVG	
	7	0.8115	15.26	20.59	35.85	56.00	-20.15	QP	
	8 *	0.8115	12.24	20.59	32.83	46.00	-13.17	AVG	
5 CT°	9	0.9150	12.69	20.63	33.32	56.00	-22.68	QP	ET°
	10	1.0275	1.96	20.67	22.63	46.00	-23.37	AVG	
	11	1.1760	12.65	20.66	33.31	56.00	-22.69	QP	
WS	12	2.6070	14.08	20.60	34.68	56.00	-21.32	QP	
Note:	1 -								7

Note1:

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

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

Q.P. =Quasi-Peak AVG =average

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

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W5CT



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1 6.2.3. Maximum Conducted (Average) Output Power

6.2.4. Test Specification

0.	2.4. Test Specification	WSCT WSCT	W5ET"
$\overline{}$	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
	Test Method:	KDB 558074	
W5CT [°]	Limit:	30dBm W577	/
	Test Setup:		W5CT
		Spectrum Analyzer EUT	
	Test Mode:	Transmitting mode with modulation	
<u> AWS ET </u>		 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss 	WSCT
WSET	Test Procedure:	was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report.	

W.S	CT W	SET W	SET	VS ET	W5LT
WSET	WSET	WSET	WSET	WSET	
	W.	ET W	SET V	YSCT .	WSCT
WSET	WSET	WSET	WSET	WSET	
			X	X	X

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WS ET

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W5 CT

W5 CT





Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

Test Data

W5 CT 1

W5ET°

MAIN Ant1

	Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict	CT WS CT
	р	2412	18.13	30	Pass	
	b	2437	18.13	30	Pass	X
	Q	2462	17.25	30	Pass	
4	g	2412	20.52	30	Pass	(market)
IW.	g	2437	20.53	30	Pass	WS CT "
	g	2462	19.77	30	Pass	
	n20	2412	19.63	30	Pass	X
	n20	2437	17.13	30	Pass	
	n20	2462	16.23	30	Pass	Transition of the second
_	n40	2422	14.00	30	Pass	CT WSCT
	n40	2437	14.38	30	Pass	
	×n40	2452	15.52	30	Pass	X
	ax20	2412	17.20	30	Pass	
(11)	ax20	2437	16.39	30	Pass	WEET
110	ax20	2462	17.62	30	Pass	WSET
	ax40	2422	16.90	30	Pass	
	ax40	2437	16.94	30	Pass	X
	ax40	2452	16.31	30	Pass	

W5CT

AUX Ant2

W5 CT

le	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdic
	2412	16.22	30	Pass
	2427	15 00	/20	Door

wode Frequency		Total Power	LIIIIIL	verdict	
	(MHz)	(dBm)	(dBm)		
b	2412	16.22	30	Pass	
b	2437	15.89	30	Pass	
b	2462	15.79	30	Pass	
g	2412	18.76	30	Pass	/
g	2437	18.95	30	Pass	
g	2462	18.77	30	Pass	
n20 /	2412	17.72	30	Pass	r T
n20	2437	17.78	30	Pass	- /
n20	2462	17.63	30	Pass	
n40	2422	18.14	30	Pass	
n40	2437	18.17	30	Pass	
n40	2452	18.03	30 -	Pass	
ax20	2412	17.87	30	Pass	
ax20	2437	16.75	30	Pass	
ax20	2462	16.74	30	Pass	
ax40	2422	17.17	30	Pass	
ax40	w 5 2437	16.90	30	Pass	C 7
ax40	2452	17.15	30	Pass	
	b b g g g n20 n20 n20 n40 n40 n40 ax20 ax20 ax40 ax40	(MHz) b 2412 b 2437 b 2462 g 2412 g 2437 g 2462 n20 2412 n20 2437 n20 2462 n40 2422 n40 2437 n40 2452 ax20 2412 ax20 2462 ax40 2422 ax40 2437	(MHz) (dBm) b 2412 16.22 b 2437 15.89 b 2462 15.79 g 2412 18.76 g 2437 18.95 g 2462 18.77 n20 2412 17.72 n20 2437 17.78 n20 2462 17.63 n40 2422 18.14 n40 2437 18.17 n40 2452 18.03 ax20 2412 17.87 ax20 2437 16.75 ax20 2462 16.74 ax40 2422 17.17 ax40 2437 16.90	(MHz) (dBm) (dBm) b 2412 16.22 30 b 2437 15.89 30 b 2462 15.79 30 g 2412 18.76 30 g 2437 18.95 30 g 2462 18.77 30 n20 2412 17.72 30 n20 2437 17.78 30 n20 2462 17.63 30 n40 2422 18.14 30 n40 2437 18.17 30 n40 2437 18.03 30 ax20 2412 17.87 30 ax20 2437 16.75 30 ax40 2422 17.17 30 ax40 2437 16.90 30	(MHz) (dBm) (dBm) b 2412 16.22 30 Pass b 2437 15.89 30 Pass b 2462 15.79 30 Pass g 2412 18.76 30 Pass g 2437 18.95 30 Pass g 2462 18.77 30 Pass n20 2412 17.72 30 Pass n20 2437 17.78 30 Pass n20 2462 17.63 30 Pass n40 2422 18.14 30 Pass n40 2437 18.17 30 Pass n40 2452 18.03 30 Pass ax20 2412 17.87 30 Pass ax20 2462 16.74 30 Pass ax40 2422 17.17 30 Pass ax40 2437

W5 ET

WS ET

WSCI

W5 C7

W5 CT

W5 E7

W5 CT

W5 CT

W5 C1

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W5 CT

WS ET

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W5CT







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Report No.: WSCT-ANAB-R&E	240700030	A-Wi-Fi1				
MiMO Mode			- 115	,)/ !! /	<i>/</i>
	Mode	Frequency	Total Power	Limit	Verdict	
		(MHz)	(dBm)	(dBm)		
WSET"	n20	W 5 2412	21.79	30	Pass	CT WS CT
	n20	2437	20.48	30	Pass	
X	n20	2462	20.00	30	Pass	X
	n40	2422	19.56	30	Pass	
	n40	2437	19.69	30	Pass	
WSET WS	n40	2452	19.96	305 []	Pass	W5CT°
	ax20	2412	20.56	30	Pass	
X	ax20	2437	19.58	30	Pass	X
	ax20	2462	20.21	30	Pass	
	ax40	2422	20.05	30	Pass	\rightarrow
W5ET	ax40	2437	19.93	30	Pass	CT" WS CT"
	ax40	2452	19.76	30	Pass	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X		/	V		
		/				
					7	
W5LT° WS	ET	W5	LT°	W5 CT		W5LT°
W5 CT°		W5ET°	W5 CT	0	W5	CT" WS CT"
	X	/				
WSET W	ET	W.5	CT	W5 C1		WSET
112				- UFIGU		1
X		X	X		>	X
WEET		WEET	West		W5	CT° WE CT°
WSET		W5 CT	WSET			CT" WS CT"
X	X			X		X
Anna Anna		- August		- Augusta		August 1
WSET W	ET	W5		WSET		WSET
X		X	V		>	
				_		\rightarrow
WSET		W5 CT	WSET		W.5	CT" WS CT"
					7	
W5ET WS	ET .	W.5	CT \	W5 C1		W5 ET
					1 100	

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W5 CT





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6.3. Emission Bandwidth

6.3.1. Test Specification

W5 CT

W5 C1

\times	Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
V5 CT	Test Method:	KDB 558074 W5 ET W5 ET	
	Limit:	>500kHz	X
X	Test Setup:	Spectrum Analyzer EUT	WSCT
V5 ET	Test Mode:	Transmitting mode with modulation W5.57	
VS CT	Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 	WSCT
	Test Result:	PASS	WSCT

W5 CT W5 C1

W5 ET

W5 ET

W5 ET

W5 E1

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W5CT°

6.3.2. Test data

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W5 CT

WSET

W5 CT

7	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
	b /	2412	8.051	0.5	Pass
	b	2437	8.015	0.5	Pass
	b	2462	8.045	0.5	Pass
	g	2412	16.257	0.5	Pass
	g	2437	16.302	0.5	Pass
	g	2462	15.305	0.5	Pass
	n20	2412	16.931	0.5	Pass
	n20	2437	16.357	0.5	Pass
	n20	2462	17.247	0.5	Pass
	n40	2422	35.143	0.5	Pass
	n40	2437	35.041	0.5	Pass
	n40	2452	35.961	0.5	Pass
	ax20	2412	17.709	0.5/5/	Pass
	ax20	2437	18.606	0.5	Pass
	ax20	2462	17.819	0.5	Pass
	ax40	2422	35.575	0.5	Pass
7	ax40	W5 CT 2437 W5	35.797	W5 ET 0.5	Pass
	ax40	2452	35.080	0.5	Pass
	X	X	X	X	

W5CT"	W5 CT	WSET	WSET	WSET

WSCT WSCT WSCT WSCT	W5 CT	١
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WS CT WS CT WS CT WS CT	S E T
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WS CT [®]	W5CT"	WSCT	MAC CT	W5CT°

W5CT W5	CT [®] W5 CT	WSET
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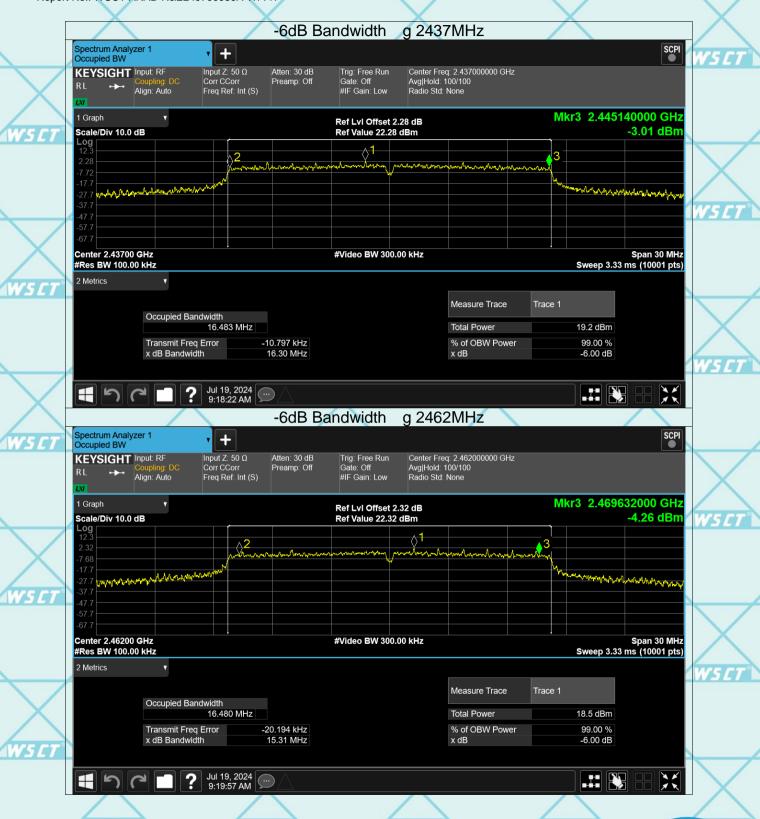
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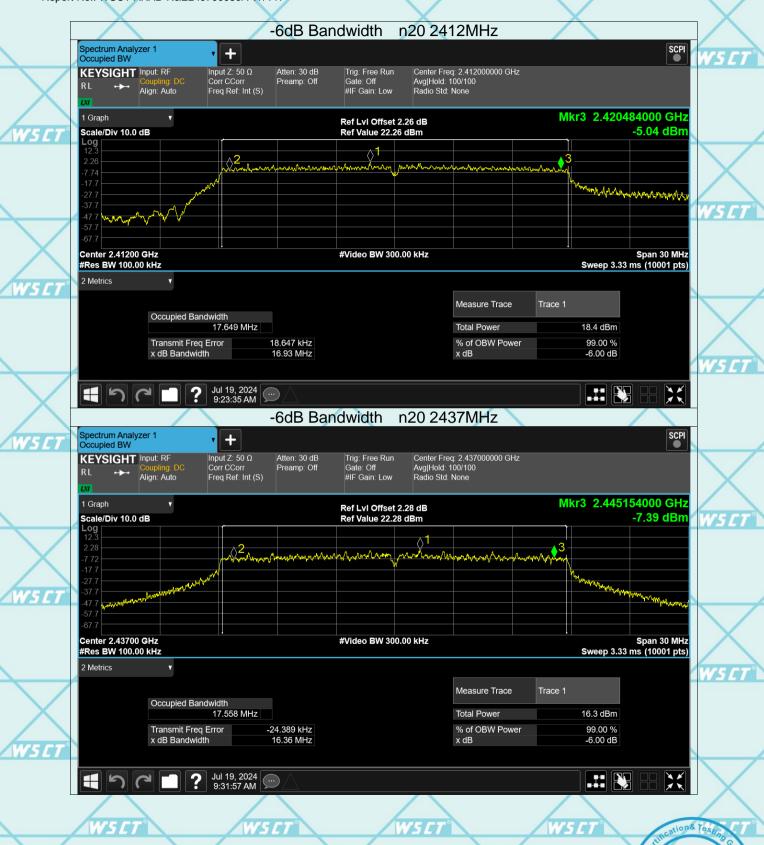
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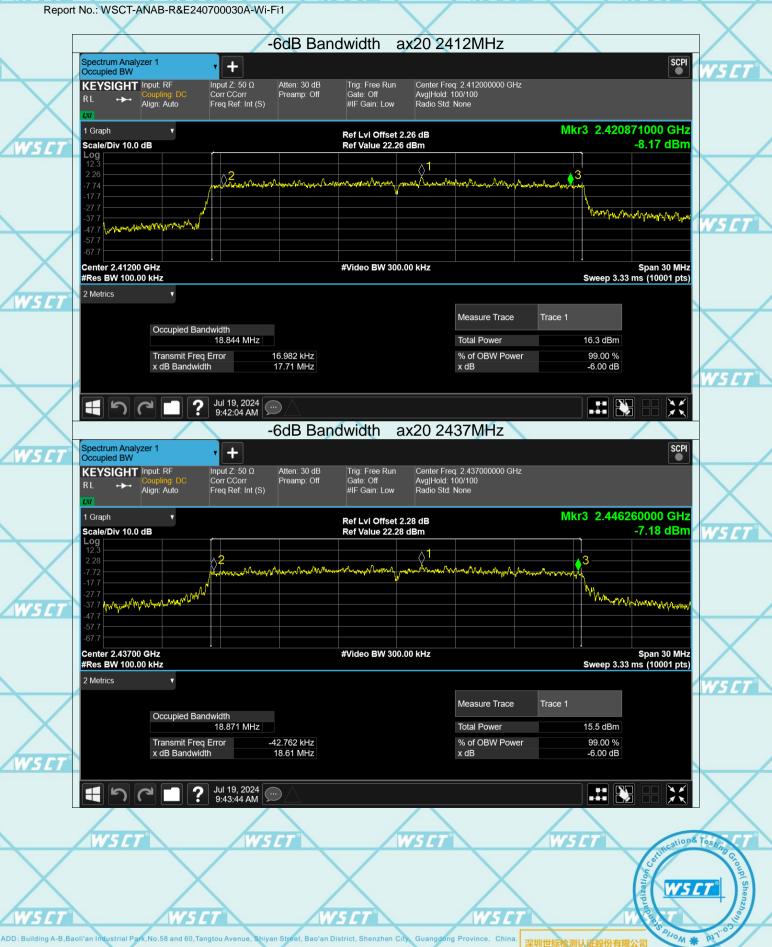
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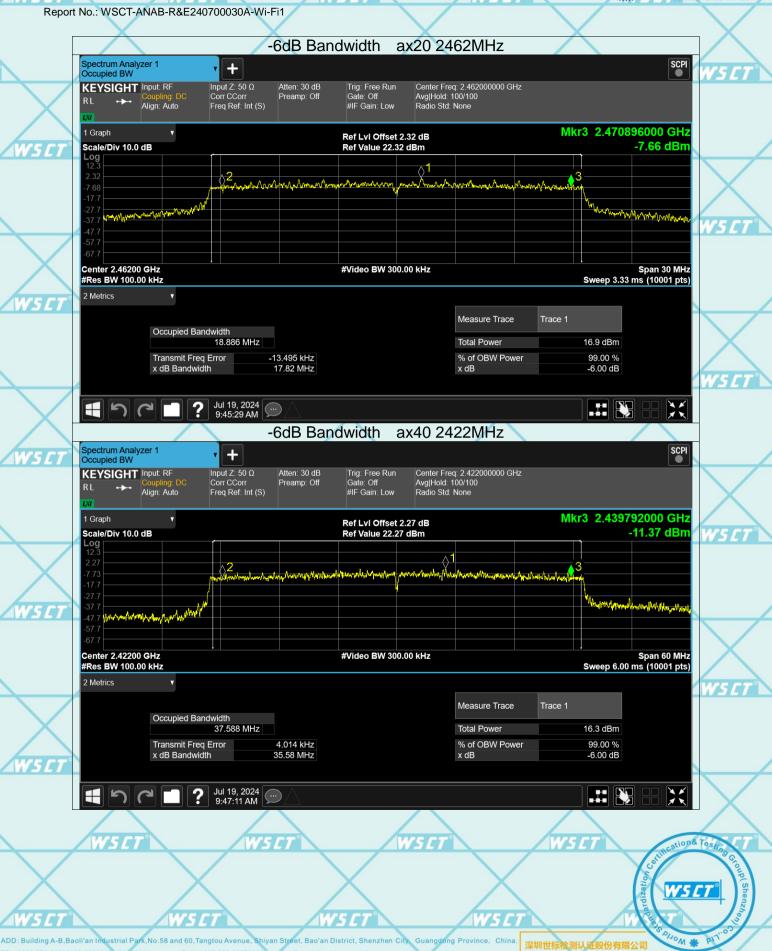
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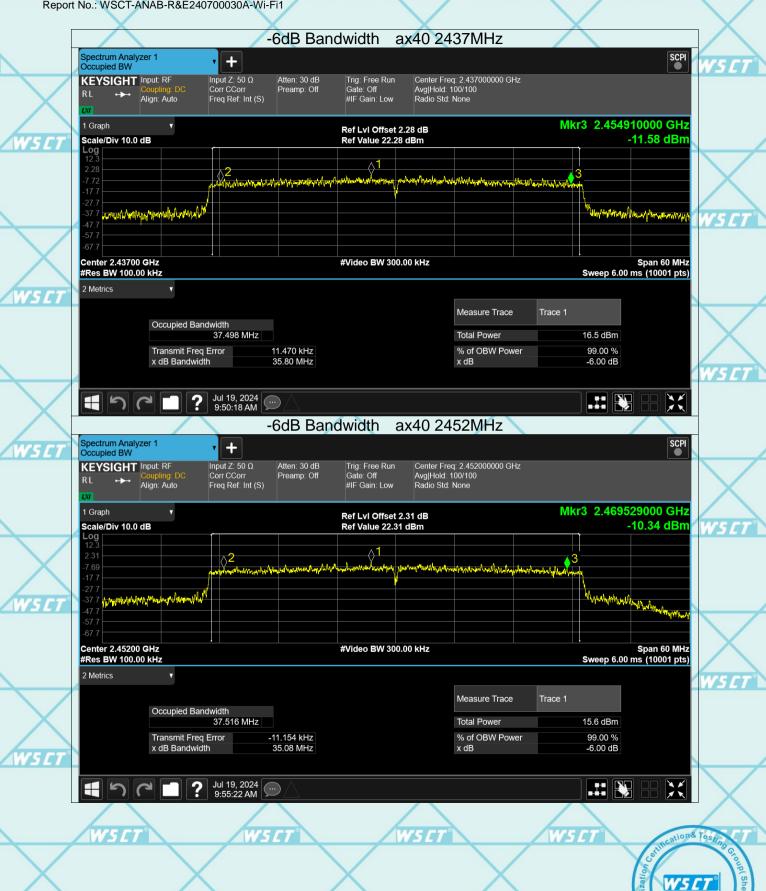
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10M #



W5C7

WS C1

W5 ET

W5E1

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6.4. Power Spectral Density

6.	4.1. Test Specification V5 [T WSET WSET	W5 CT
	Test Requirement:	FCC Part15 C Section 15.247 (e)	
	Test Method:	KDB 558074	
	Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.	X
7	Test Setup:	Spectrum Analyzer EUT	W5ET
7	Test Mode:	Transmitting mode with modulation	
	Test Procedure:	 The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 	WSCT
	Test Result:	PASS	

W5CT

W5CT

W5 ET

W5 CT W5 CT W5 C7 W5 CT

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W5 CT

W5 CT







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6.4.2. Test data

WSCI

WSE

WSC

Pass

Pass

Pass

Pass

Pass Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

7.75

7.75

7.75

7.75

7.75

7.75

7.75

7.75

MAIN Ant1

Total PSD Limit Verdict Mode Frequency (MHz) (dBm/3kHz) (dBm/3kHz) b 2412 7.75 Pass 3.25 b 2437 2.80 7.75 **Pass** 7.75 2462 2.77 **Pass** b 2412 -2.39 7.75 **Pass** g 2437 Pass -2.057.75 g 2462 -2.277.75 **Pass** g n20 2412 -2.24 7.75 **Pass** n20 2437 -4.977.75 **Pass**

WS CI

WSC

WSCI

W5 CI

WS CI

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n20 2462 -5.217.75 2422 7.75 n40 -10.59n40 2437 -9.507.75 n40 2452 -9.16 7.75 2412 -2.38 ax20 7.75 -4.54 ax20 2437 7.75 ax20 2462 -2.61 7.75 ax40 2422 -5.217.75 ax40 2437 -6.147.75

2452

ax40

AUX Ant2

-6.10

Limit Verdict Mode Frequency **Total PSD** (MHz) (dBm/3kHz) (dBm/3kHz) b 2412 0.51 7.75 **Pass** b 2437 0.35 7.75 **Pass Pass** 1.02 7.75 b 2462 -3.717.75 **Pass** 2412 g 2437 -3.737.75 Pass g Pass

-3.347.75 2462 g n20 2412 -4.86 7.75 n20 2437 -3.857.75 n20 2462 -3.697.75 n40 2422 -7.09 7.75 7.75

-7.43n40 2437 n40 -6.442452 ax20 2412 -4.12ax20 2437 -4.17ax20 2462 -3.53

2422 ax40 ax40 2437 ax40 2452

-4.89

-5.29

-6.2

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X		X	>		X	X
T" WSET"		WSCT	MIMO		WSCT	WSET N
	Mode	Frequency	Total PSD	Limit	Verdict	
	n20	(MHz) 2412	(dBm/3kHz) -0.35	(dBm/3kHz)	Pass	X
	n20	2412	-0.35 v c -1.36	7.75		
W5 CT	n20	2462	-1.37	7.75 7.75	Pass Pass	W5 CT
	n40	2422	-5.49	7.75	Pass	
	n40	2437	-5.33	7.75	Pass	
	n40	2452	-4.58	7.75	Pass	
WSCT	ax20	2412	-0.15	7.75	Pass	W5LT"
	ax20	2437	-1.34	7.75	Pass	
	ax20	2462	-0.04	7.75	Pass	
	ax40	2422	-2.04	7.75	Pass	
W5 ET	ax40	2437	-2.68	7.75	Pass	W5 CT
	ax40	2452	-3.14	7.75	Pass	
WSCT		WSET	W5	CT	WSET	WSET
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TEL: 0086-755-26996192 26996053 26996144	FAX: 0086-755		ngbing.wang@wsct-cert.com	in in	深圳世标检测认证的 Vorld Standardization(设份有限公司 Certification& Testing Group(Shenzhen) Co.,Ltd
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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1

PSD g 2437MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 100/100 Trig: Free Run KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 30 dB PNO: Fast 1 2 3 4 5 6 Gate: Off IF Gain: Low Sig Track: Off Corr CCorr Freq Ref: Int (S) Preamp: Off M ₩ ₩ ₩ ₩ Align: Auto Mkr1 2.436 731 GHz 1 Spectrum Ref LvI Offset 2.28 dB Ref Level 20.00 dBm -2.05 dBm Scale/Div 10 dB have the water and the following the followi h h 30.0 they play by and one 75 C #Video BW 100 kHz Center 2.43700 GHz Span 24.45 MHz #Res BW 30 kHz Sweep 25.8 ms (1001 pts) Jul 19, 2024 9:18:29 AM PSD g 2462MHz SCPI Spectrum Analyzer 1 + wept SA Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off PNO: Fast Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 M ₩ ₩ ₩ ₩ Align: Auto IF Gain: Low Sig Track: Off Trig: Free Run Mkr1 2.463 240 GHz Ref LvI Offset 2.32 dB Scale/Div 10 dB Ref Level 20.00 dBm -2.27 dBm Language Language Company Company Language Company Com MAY MALLUNA Mary may and may be fear My Many Appropri Center 2.46200 GHz #Res BW 30 kHz #Video BW 100 kHz Span 22.96 MHz Sweep 24.3 ms (1001 pts) Jul 19, 2024 9:20:04 AM ⊞ ation& Tesus

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PSD n40 2437MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 100/100 Trig: Free Run KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 30 dB PNO: Fast 1 2 3 4 5 6 Gate: Off IF Gain: Low Sig Track: Off Corr CCorr Freq Ref: Int (S) Preamp: Off M ₩ ₩ ₩ ₩ Align: Auto Mkr1 2.432 01 GHz 1 Spectrum Ref LvI Offset 2.28 dB Ref Level 20.00 dBm -9.50 dBm Scale/Div 10 dB polyggypholytoryhytotoppolygholytoppolygeronthytotop phononyapinharitharta, phanyapanharihanharihapandha 75 C Center 2.43700 GHz #Res BW 30 kHz Span 52.56 MHz Sweep 55.5 ms (1001 pts) #Video BW 100 kHz Jul 19, 2024 9:37:59 AM **PSD** n40 2452MHz Spectrum Analyzer 1 SCPI + wept SA Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off PNO: Fast Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 ___ M ₩ ₩ ₩ ₩ ₩ IF Gain: Low Sig Track: Off Align: Auto Trig: Free Run Mkr1 2.446 98 GHz Ref Lvl Offset 2.31 dB -9.16 dBm Scale/Div 10 dB Ref Level 20.00 dBm Mayordhit Arght Wyppiller all hay gall a faith And the following the particular of the particul Center 2.45200 GHz #Res BW 30 kHz #Video BW 100 kHz Span 53.94 MHz Sweep 56.9 ms (1001 pts) Jul 19, 2024 9:40:06 AM ⊞ ation& Test

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Mahalalak Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi1 PSD ax40 2437MHz



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