

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





TEST REPORT

FCC ID: 2ADYY-T14RA-1

Product: Laptop Computer

Model No.: T14RA

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Issued Date: 14 October 2024

Issued for:

TECNO MOBILE LIMITED

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

Issued By:

WSIT

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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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

1. Test Certification

Product: Laptop Computer

Model No.: T14RA

Trade Mark: TECNO

Applicant: TECNO MOBILE LIMITED

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

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SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer: TECNO MOBILE LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 29 August 2024 to 11 October 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 Stroup(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.

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Tested By:

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(Wang Xiang)

(Qin Shuiquan)

Approved By:

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WS Date: 14 Octo

Checked By:

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Test Result Summary 2.

	WSTT	WSTT	WEST	WSC
7	Requirement	CFR 47 Section	Result	Add to the same of
/	Antenna requirement	§15.203/§15.247 (c)	PASS	
	AC Power Line Conducted Emission	§15.207	PASS	X
	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS	WSE
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
	Power Spectral Density	§15.247 (e)	PASS	
	Band Edge	1§5.247(d) §2.1051, §2.1057	PASS	WST
1	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
	1/-/-	/ / / / / / / / / / / / / / / / / / / /		

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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	WSET	WSCT	WSET	WSCT	SET
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3. EUT Description

Product:	Laptop Computer W5 [7] W5 [7]	VSET
Model No.:	T14RA	
Trade Mark:	TECNO WS.CT	
Operation Frequency:	2412MHz~2462MHz (802.11b/g/n/ax(HT20)) 2422MHz~2452MHz (802.11n/ax(HT40))	\times
Channel Separation:	5MHz	77.3
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	<i>Y-141</i>
Antenna Type:	Integral Antenna W577	/
Antenna Gain	MAIN:1.86dBi ,AUX:1.70 dBi	
EUT Power Rating	Adapter: FC498U INPUT: 100-240V~50/60Hz 1.5A MAX OUTPUT: PD:5V3A 9V3A 12V3A 20V3.25A PPS:3.3—11V5A MAX Rechargeable Li-ion Polymer Battery: 528282-3S1P Nominal Voltage: 11.61V Rated Capacity:6460mAh/75Wh Typical Capacity: 6550mAh/76.04Wh Limited Charge Voltage: 13.35V	VSLT
Remark:	N/A.	CANAL S
	Model No.: Trade Mark: Operation Frequency: Channel Separation: Modulation type: Antenna Type: Antenna Gain EUT Power Rating	T14RA

	WSLT	WSET	WSCT	WSET	WSET
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Configuration differences

	Comigaration amoration	.00
	Configuration/ Processor	TDP
,	T14RA (i5-1335U)	15W
	T14RA (i7-1355U)	15W
	T14RA (i5-13420H)	30W
L	T14RA (i7-13620H)	30W
	T14RA (i7-13700H)	30W
	Note: These models of	of TDP are different, and the T14RA

(i7-13620H) is the main test model reported ws r

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WS C) W5 E1 WSET WSE

WSET WSET W5 ET WSCT WSE

WSE WSE1 WS ET

W5 ET WSCT W5ET WSET

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Operation Frequency each of channel For 802 11h/g/n/av/HT20)

'	Operation	i Frequency	each of	Chamile Fu	002.11	b/y/II/ax(III	20)	
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
,		2412MHz	4-7	2427MHz	11 7 74	2442MHz	10	2457MHz
	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

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

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	VIX.	-	4	2427MHz	WEL	2442MHz	1757	7
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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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 continuo	us transmitting
X	by select channel and mo	dulations(The
	value of duty cycle is 98.4	6%)

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:

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

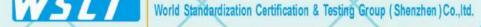
WSLT	W5 E Mode	WSET
X	802.11b	X
WAS TO	802.11g	III.S. P. P.
	802.11n/ax(H20)	
	802.11n/ax(H40)	X

Final Test Mode:

Operation mode:	X	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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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.

ì	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	FC498U	\times	/	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

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

an	tenna connector is soldered	on the antenna port of EUT,	and the temporary antenna	connector is listed in the
Te	est Instruments.			
W.5	ET WS	ET WS	CT WS	ET WSET
WSET	WSLIT	WSET	WSET	WSCT
WS				$\langle \times$
WSET	WSET	WSET	WSET	WSET
WS	WS	ET WS	CT WS	ET WSET
WSET	WSET	WSET	WSET	WSCT
Ws			ET WS	ET ations tose
WSI	WSITE	WSIO	WSI	WSCT WSCT



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5. Facilities and Accreditations

5.1. Facilities

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

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

The reported uncertainty of measurement y ± 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	
WSCT	1	Conducted Emission Test	±3.2dB	
	2	RF power, conducted	±0.16dB	
	3W5E	Spurious emissions, conducted ws 77	±0.21dB	W5
\vee	4	All emissions, radiated(<1GHz)	±4.7dB	
	5	All emissions, radiated(>1GHz)	±4.7dB	
W5LT	6	Temperature	±0.5°C	
	7	Humidity	±2.0%	

	6 Temperature		±0.5°C	
	7 Humidity	X	±2.0%	\perp
	WSET WSE	WSET	WSET	WSLT
\sim		\times	\times	
WSET	WSET	WSET	WSET	
	X	X	X	X
	WSCT WSCT	WSET	WSET	WSET
			\triangle	_
WSLT	WSET	WSCT	VSCT WSCT	
	X	X	X	X
	WSG	WSET	WSCT	WSLT
WSET	WSET	WSCT W	VSCT WSCT	
	X	\times	\times	\times
	WSET WSET	WSET	WSET	tions Tos
	W5CT W5CT	100	(Silver	200
X	X	X		VSCT Short



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5.4.MEASUREMENT INSTRUMENTS

	MACE	WEET	WE		W/C/Fire	/11/	Ę
×	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
	Test software		EZ-EMC	CON-03A	· /	77.5	
4	Test software		MTS8310	/ 11/19	1	-	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	>
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	3
J	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	100114	11/05/2023	11/04/2024	5
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
1	Pre-Amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	
L	Bi-log Antenna W	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
	9*6*6 Anechoic		-)	-	11/05/2023	11/04/2024	5
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	2
X	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
7	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	7	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	
£	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
	Power sensor	Anritsu	MX248XD	<u> </u>	11/05/2023	11/04/2024	>
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	
	and the same and t			Total Carlotte Control Control	ACT OF FAMILIES AND ADDRESS OF THE PARTY OF	The second secon	-

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6. Test Results and Measurement Data

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:1.86dBi ,AUX:1.70dBi"

<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,

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.,

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
	(dBi)	(dBi)	(dBi)	(dBi)
2412~2462MHz	1.86	1.70	1.86	4.79

Power limit reduction = Composite gain – 6dBi, (min = 0)

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

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6.2. Conducted Emission

6.2.1. Test Specification

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/	ziii rest opcomodion		
\times	Test Requirement:	FCC Part15 C Section 15.207	
ET	Test Method: 5	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	ET.
141	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	
_	WSET WSE	40cm 80cm LISN	LT
	Test Setup: W5 [7]	E.U.T AC power EMI Receiver	
<	Test Mode:	Charging + transmitting with modulation	
CT	WSCT WSC	 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. The peripheral devices are also connected to the main 	
777	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).	
	WSET	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 W5 77	roup(Shen

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VSCT WSCT WSC

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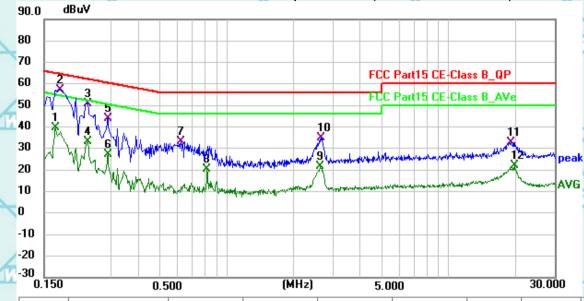
Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

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)



									_
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
<	1	0.1680	19.11	20.72	39.83	55.06	-15.23	AVG	A
	2 *	0.1770	36.58	20.71	57.29	64.63	-7.34	QP	
1	3	0.2355	30.21	20.67	50.88	62.25	-11.37	QP	
Å	4	0.2355	12.67	20.67	33.34	52.25	-18.91	AVG	-
	5	0.2895	23.42	20.64	44.06	60.54	-16.48	QP	
	6	0.2895	6.58	20.64	27.22	50.54	-23.32	AVG	1
_	7	0.6225	12.69	20.53	33.22	56.00	-22.78	QP	7
)	8	0.8160	-0.13	20.59	20.46	46.00	-25.54	AVG	
,	9	2.6430	0.86	20.60	21.46	46.00	-24.54	AVG	
7	10	2.6745	14.12	20.60	34.72	56.00	-21.28	QP	
	11	19.0904	12.70	20.24	32.94	60.00	-27.06	QP	
	12	19.7655	1.97	20.26	22.23	50.00	-27.77	AVG	

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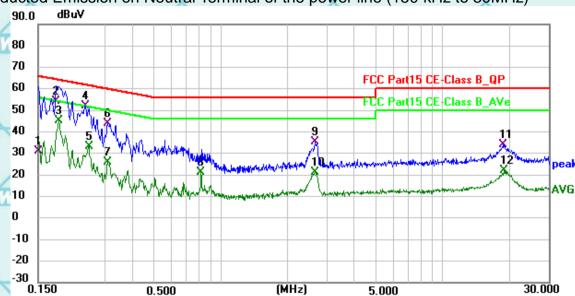
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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
	1	0.1500	10.51	20.73	31.24	66.00	-34.76	QP
	2	0.1815	33.61	20.70	54.31	64.42	-10.11	QP
	3 *	0.1860	24.69	20.70	45.39	54.21	-8.82	AVG
5	4	0.2445	31.55	20.66	52.21	61.94	-9.73	QP
	5	0.2535	12.68	20.66	33.34	51.64	-18.30	AVG
	6	0.3075	23.32	20.63	43.95	60.04	-16.09	QP
4	7	0.3075	5.22	20.63	25.85	50.04	-24.19	AVG
	8	0.8160	0.70	20.59	21.29	46.00	-24.71	AVG
	9	2.6610	14.55	20.60	35.15	56.00	-20.85	QP
-	10	2.6700	0.62	20.60	21.22	46.00	-24.78	AVG
	11	18.6944	13.92	20.24	34.16	60.00	-25.84	QP
4	12	18.9465	1.86	20.24	22.10	50.00	-27.90	AVG

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 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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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1 6.2.3. Maximum Conducted (Average) Output Power

6.2.4. Test Specification

	/W4747 / W474		WATER			
7	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
/	Test Method:	KDB 558074				
7	Limit:	30dBm	/			
	Test Setup:		WSET			
/		Spectrum Analyzer EUT				
/	Test Mode:	Transmitting mode with modulation				
	Test Procedure:	 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 was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the 	WSLT			
		results in the test report.	X			

WS	ET W.	SET W	SET V	SET	WSLT
X	\times	X	X	X	
WSET	WSET	WSET	WSET	WSET	X
WS	W	SET W	5ET M	SET	WSLT
WSET	WSET	WSCT	WSET	WSCT	
		\times	\times	X	X

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Test Data

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	Mode	Frequency	Total Power	Limit	Verdict	-
		(MHz)	(dBm)	(dBm)		4
<u></u>	b	2412	16.04	30	Pass	
	b	2437	16.8	30	Pass	
/	b	2462	16.78	30	Pass	/
_	g	2412	19.69	30	Pass	/
E	g	2437	19.93	30	Pass	
	g	2462	19.91	30	Pass	/
	n20	2412	18.88	30	Pass	
	n20	2437	19.03	30	Pass	
	n20	2462	18.92	30	Pass	
	n40	2422	18.59	30	Pass	4
/	n40	2437	18.72	30	Pass	
	n40	2452	18.45	30	Pass	
/	ax20	2412	18.48	30	Pass	/
7.7	ax20	2437	18.77	30	Pass	/11
£	ax20	2462	18.69	30	Pass	/W
	ax40	2422	19.02	30	Pass	
	ax40	2437	19.23	30	Pass	
	ax40	2452	19.02	30	Pass	

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AUX Ant2

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		WSLT			11-1	4
	Mode	Frequency	Total Power	Limit	Verdict	
		(MHz)	(dBm)	(dBm)		
	b	2412	18.55	30	Pass	
Z	b	2437	18.66	30	Pass	
C	Ь	2462	18.57	30	Pass	
	g	2412	21.61	30	Pass	1
	g	2437	21.83	30	Pass	
	g	2462	21.84	30	Pass	
	n20	2412	20.86	30	Pass	G.
	n20	2437	20.94	30	Pass	3
\	n20	2462	20.87	30	Pass	
	n40	2422	21.09	30	Pass	
	n40	2437	21.35	30	Pass	
Z	n40	2452	21.11	30	Pass	
	ax20	2412	20.57	30	Pass	
	ax20	2437	20.8	30	Pass	1

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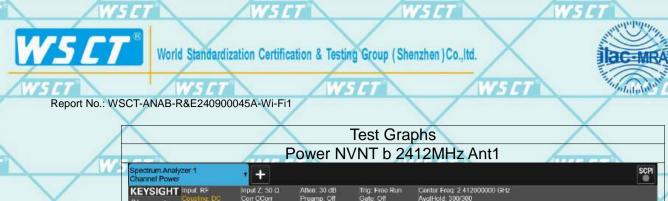


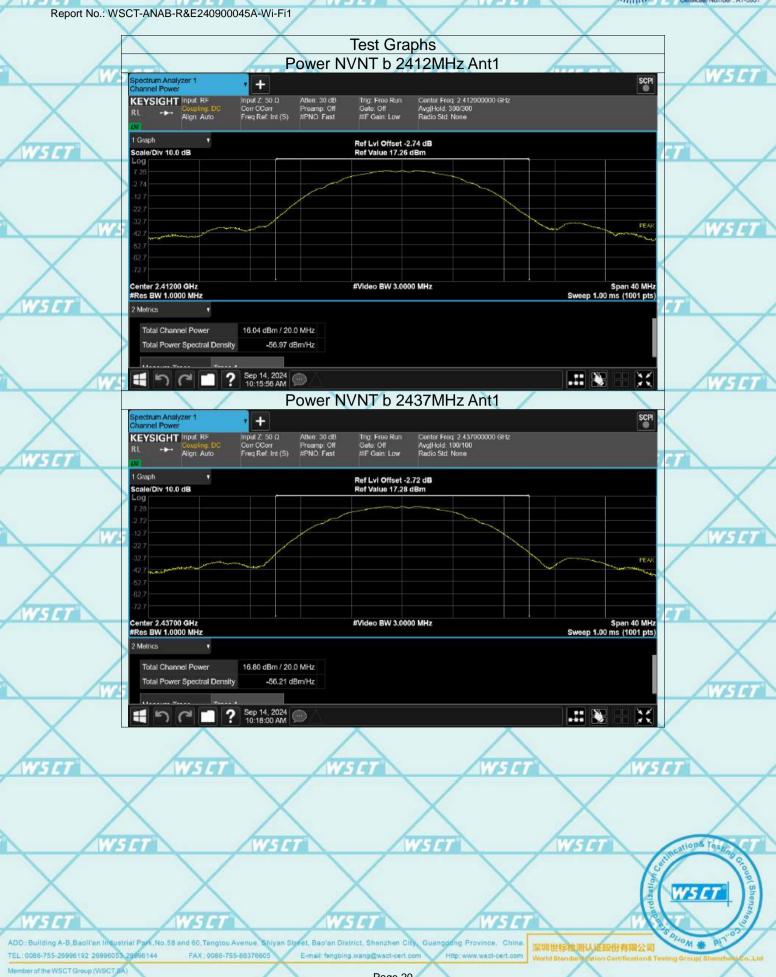
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WINO WO	Mode Fred	quency Total Pow //Hz) (dBm)	er Limit \ (dBm)	/erdict	X
WSET	n20 2	412 22.99	30	Pass	WSET
		437 23.10 462 23.01	30 30	Pass Pass	
X		422 23.03	30	Pass	X
		437 23.24	30	Pass	
WSET		452 22.99	30	Pass	WSET
		412 22.66 437 22.91	30	Pass	
X		437 22.91 462 22.68	30	Pass Pass	X
		422 23.18		Pass	
WSET		437 23.24		Pass	WSET
	ax40 2	452 23.13	30	Pass	
X		X			
WSET	WSET	WSET	WSCT		WSCT
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WSET	WSE	T W	ET	WSET	WSET
X	X	X	X		X
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X	X		X	X	X
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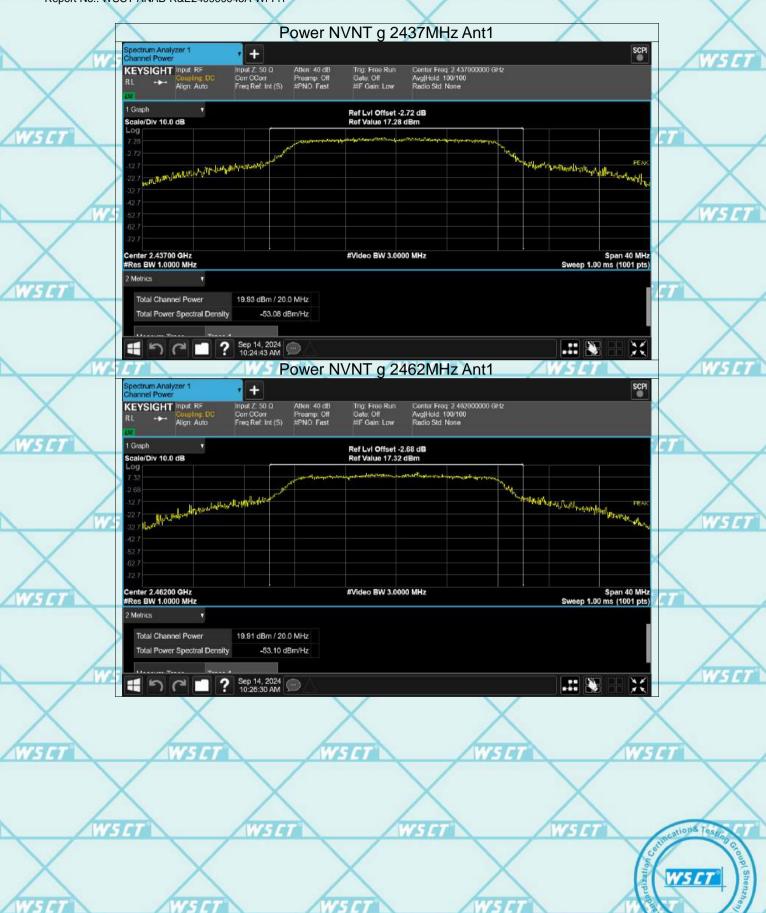












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18.88 dBm / 20.0 MHz

-54.13 dBm/Hz

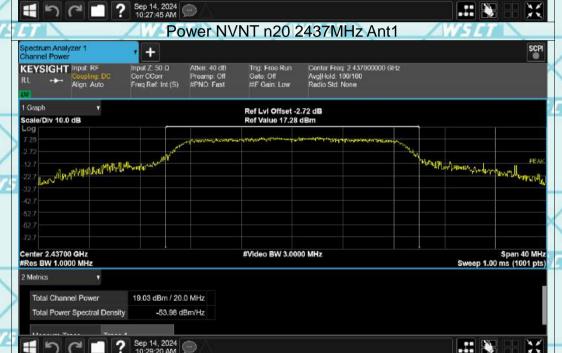
Center 2.41200 GHz #Res BW 1.0000 MHz

Total Channel Power

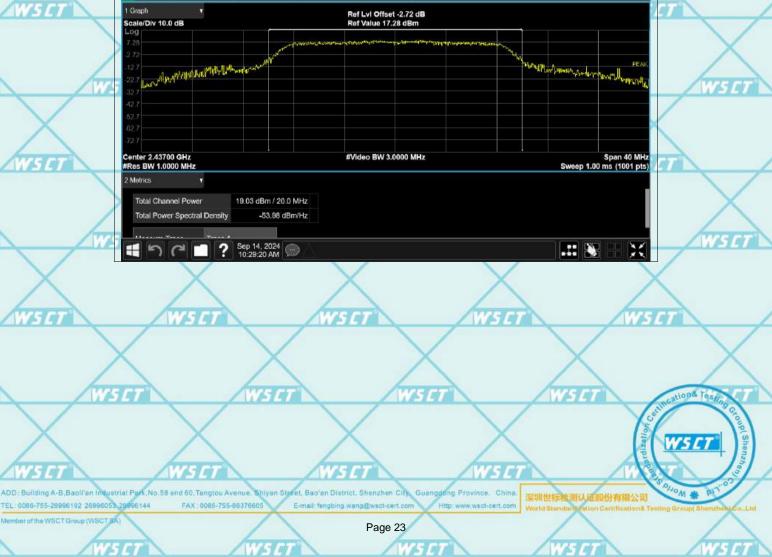
Total Power Spectral Density

endly of trypy have you

Span 40 MHz Sweep 1.00 ms (1001 pts)



#Wideo BW 3 0000 MHz











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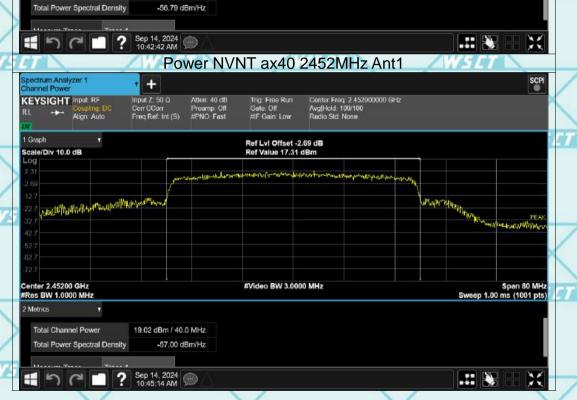


#Wideo BW 3 0000 MHz

Center 2.43700 GHz #Res BW 1.0000 MHz

Total Channel Power

19 23 dBm / 40 0 MHz



Span 80 MHz Sweep 1.00 ms (1001 pts)











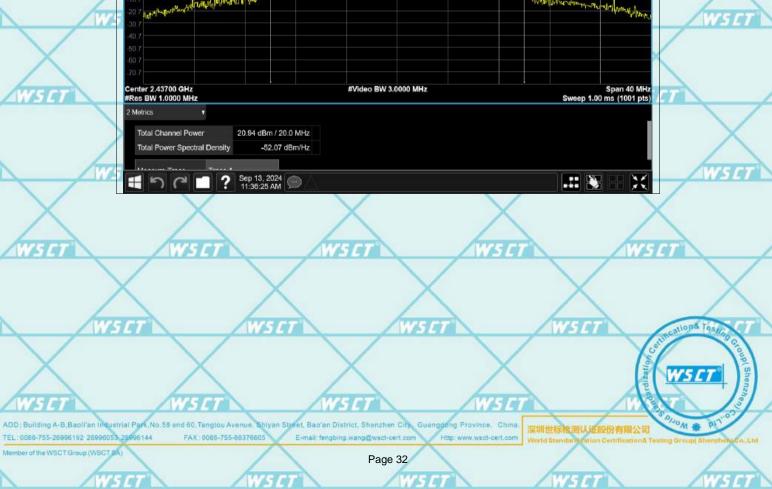


















#Wideo BW 3 0000 MHz

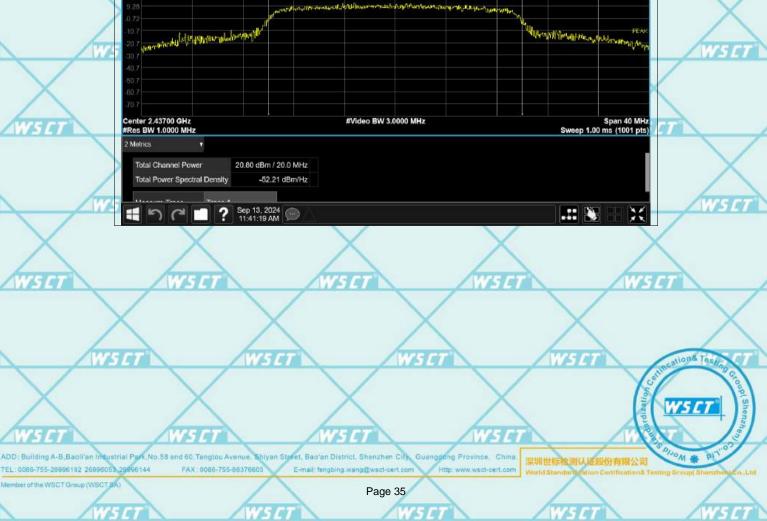
Center 2.43700 GHz #Res BW 1.0000 MHz



Span 80 MHz Sweep 1.00 ms (1001 pts)





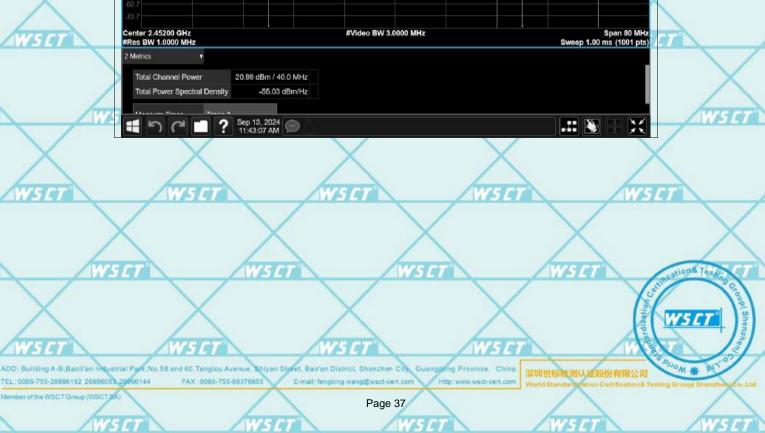












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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

6.3. Emission Bandwidth

6.3.1. Test Specification

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WS ET WSET W5 E7

	Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
7	Test Method:	KDB 558074 W5 [7] W5 [7]	
	Limit:	>500kHz	X
7	Test Setup:		WSET
		Spectrum Analyzer EUT	
7	Test Mode:	Transmitting mode with modulation	
	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. 	WSLT
	Test Result:	PASS	WS

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WSET	WSET	WSET	WSET	WSCT

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6.3.2. Test data

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	Mode	Frequency (MHz)	-6 dB Bandwidth	Limit -6 dB Bandwidth	Verdict
			(MHz)	(MHz)	
_	_ b /	2412	7.555	0.5	Pass
	b	2437	7.071	0.5	Pass
	b	2462	8.077	0.5	Pass
1	g	2412	16.33	0.5	Pass
	g	2437	16.07	0.5	Pass
	g	2462	16.30	0.5	Pass
	n20	2412	17.56	0.5	Pass
	n20	2437	17.54	0.5	Pass
7	n20	2462	16.55	0.5	Pass
	n40	2422	35.07	0.5	Pass
	n40	2437	30.11	0.5	Pass
2	n40	2452	33.85	0.5	Pass
4	ax20	2412	17.70	0.5	Pass
	ax20	2437	16.54	0.5	Pass
	ax20	2462	17.46	0.5	Pass
	ax40	2422	36.29	0.5	Pass
/	ax40	W5 LT 2437 W5 L	35.08	V5 ET 0.5	Pass
	ax40	2452	35.01	0.5	Pass

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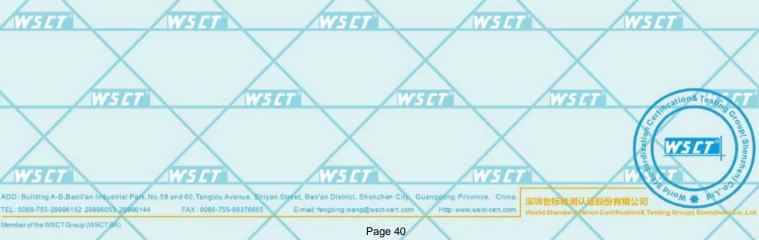
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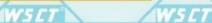








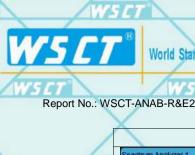








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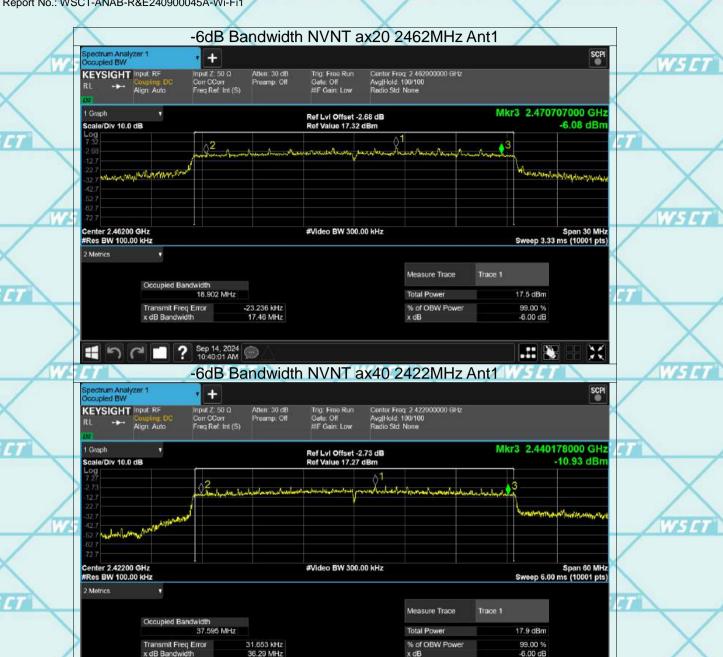














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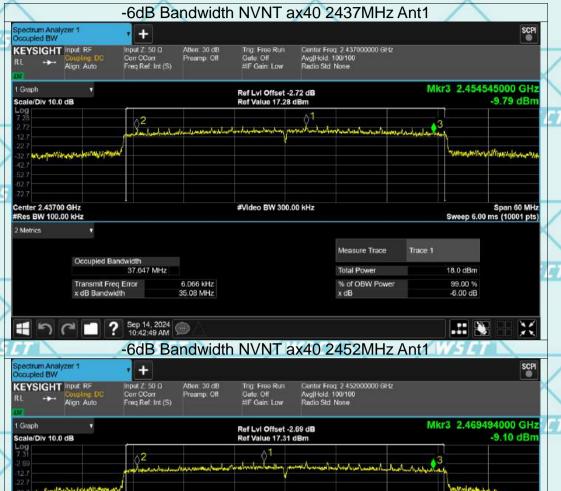
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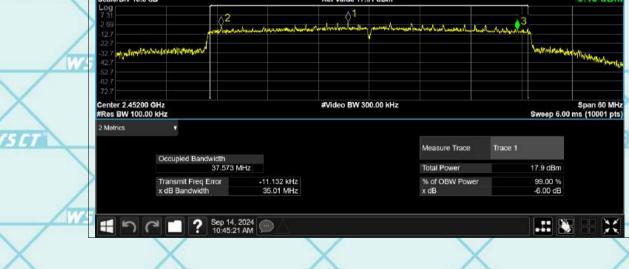
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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

6.4. Power Spectral Density

6.4.1. Test Specification

7			
	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
-	Test Setup:	Spectrum Analyzer EUT	W.S.ET
d	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. 	WSIII
	Test Result:	PASS	
	/married /married		

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6.4.2. Test data

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\wedge		IVIAIIV AI
/lodo	Fraguancy	Total DC

			WAIN AIR		
	Mode	Frequency	Total PSD	Limit	Verdict
4		(MHz)	(dBm/3kHz)	(dBm/3kHz)	
	b	2412	1.03	8	Pass
	b	2437	2.71	8	Pass
	b	2462	1.07	8	Pass
	g	2412	-2.64	8	Pass
	g	2437	-3.09	8	Pass
	g	2462	-2.64	8	Pass
	n20	2412	-3.2	8	Pass
4	n20	2437	-2.57	8	Pass
1	n20	2462	-2.88	8	Pass
	n40	2422	-6.59	8	Pass
	n40	2437	-6.86	8	Pass
	n40	2452	-6.57	8	Pass
Ļ	ax20	2412	-4.42	8	Pass
	ax20	2437	-4.24	8	Pass
	ax20	2462	-4.25	8	Pass
1	ax40	2422	-5.01	8	Pass
1	ax40	2437	-4.71	851	Pass
	ax40	2452	-4.67	8	Pass

WSEI

WSET

WSET

		AUX Ant2		
Mode	Frequency	Total PSD	Limit	Verdict
	(MHz)	(dBm/3kHz)	(dBm/3kHz)	
b	2412	3.04	8	Pass
b	2437	3.79	8	Pass
w cb 7	2462	3.52	8,5,7	Pass
g	2412	-0.86	8	Pass
g	2437	-0.77	8	Pass
g	2462	-0.65	8	Pass
n20	2412	-1.37	8	Pass
n20	2437	-0.83	8	Pass
n20	2462	-0.69	8	Pass
n40	2422	-4.55	8	Pass
n40	2437	-3.39	8	Pass
n40	2452	-4.03	8	Pass
ax20	2412	-2.56	8	Pass
ax20	2437	-2.29	8	Pass
ax20	2462	-2.51	8	Pass
ax40	2422	-3.13	8	Pass
ax40	2437	-2.79	8	Pass
ax40	2452	-2.99	8	Pass

W5 ET

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WSET

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			MIMO			
	Mode	Frequency	Total PSD	Limit	Verdict	
7		(MHz)	(dBm/3kHz)	(dBm/3kHz)		A
	n20	2412	0.82	8	Pass	WSET
	n20	2437	1.40	8	Pass	
	n20	2462	1.36	8	Pass	
1	n40	2422	-2.44	8	Pass	
	n40	2437	-1.78	8	Pass	WSET
	n40	2452	-2.11	8	Pass	
	ax20	2412	-0.38	8	Pass	
/	ax20	2437	-0.15	8	Pass	
	ax20	2462	-0.28	8	Pass	WSET
	ax40	2422	-0.96	8	Pass	
	ax40	2437	-0.63	8	Pass	X
2	ax40	2452	-0.74	8	Pass	
	NSET		W5 CT	WSCT		WSET

	WSET	WSET	WSET	WSET	WSET
X	X	X	X		
WSET	WSET	WSCT	WSE	WS	CT .
	X	X	X	X	\times
	WSET	WSET	WSET	WSET	WSET
	$\overline{}$		\sim		

	WSET	WSET	WSET	WSCT	WSCT
X			X	X	X
WSET	WS	CT V	WSCT	WSET	WSCT

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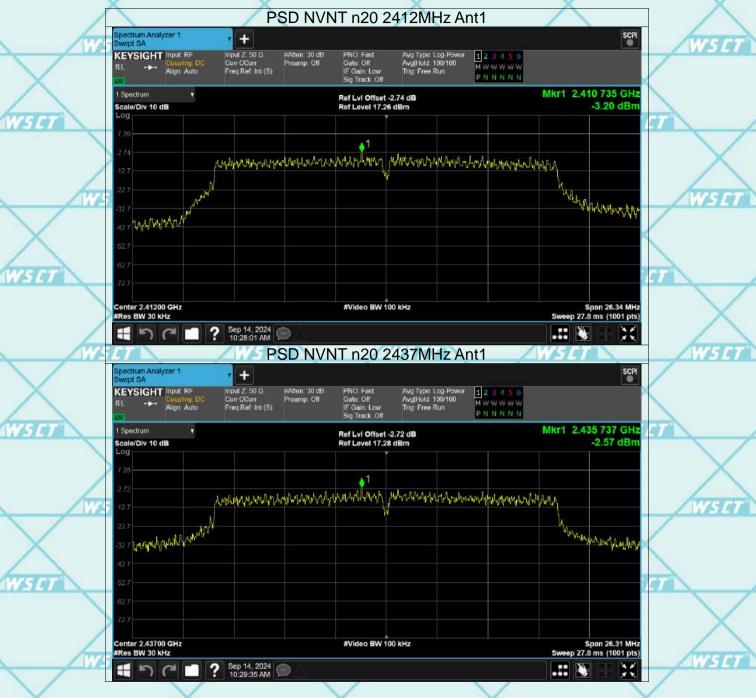










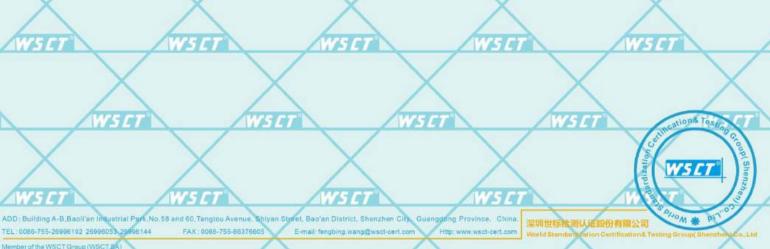








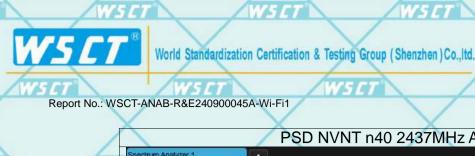




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WSET

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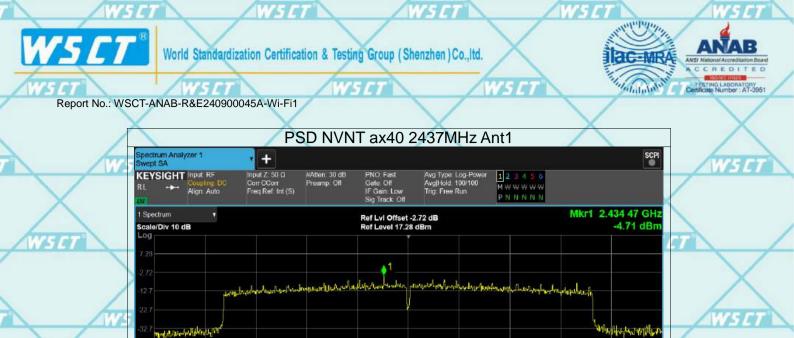


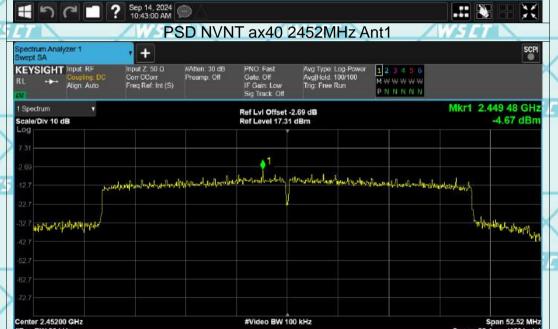












#Video BW 100 kHz

Center 2.45200 CHz

Res BW 30 kHz

Span 52.52 MHz

Sweep 53.4 ms (1001 pts)

WSCT

W

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深圳世标检测认证股份有限公司 World Standarm autom Gentification & Testing Group (Sherizhen) Co., Ltd

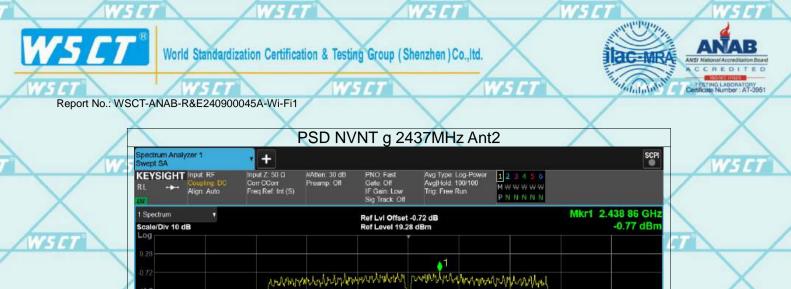
Span 52.62 MHz Sweep 55.5 ms (1001 pts)

Center 2.43700 GHz #Res BW 30 kHz







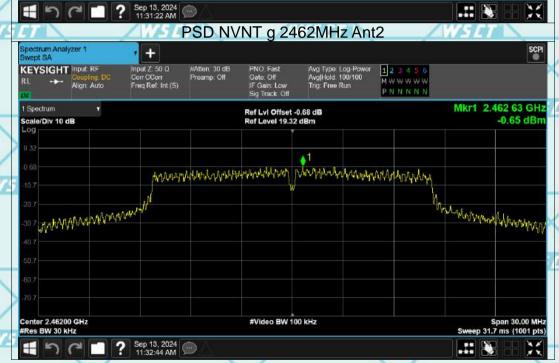


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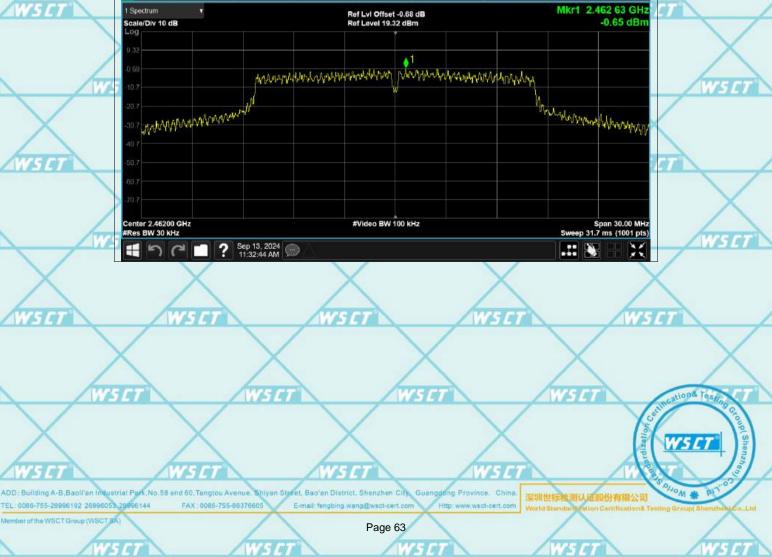
Span 30.00 MHz Sweep 31.7 ms (1001 pts)

sparpers had herefreezens white

Center 2.43700 GHz #Res BW 30 kHz



#Video BW 100 kHz







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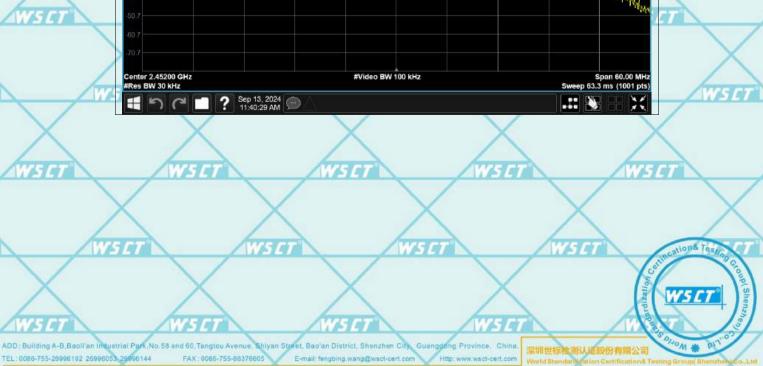


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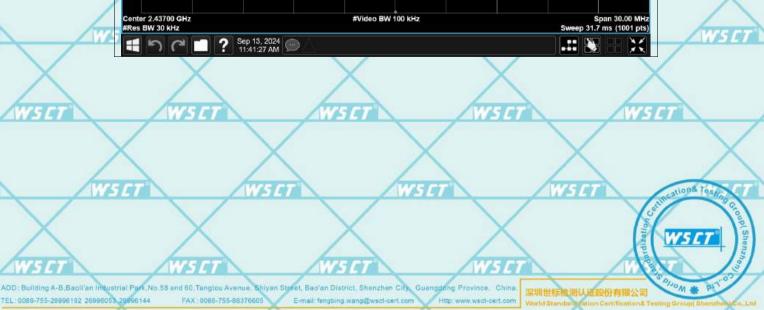












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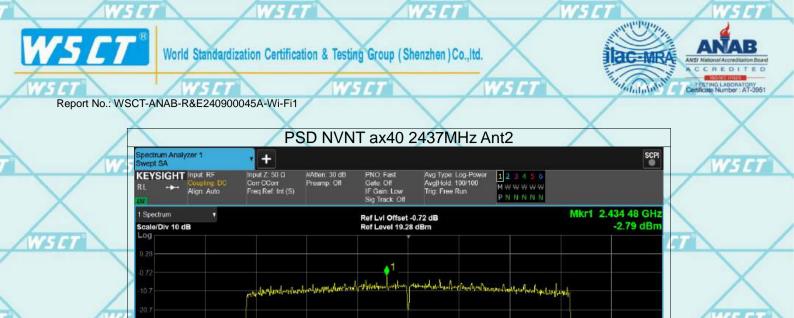






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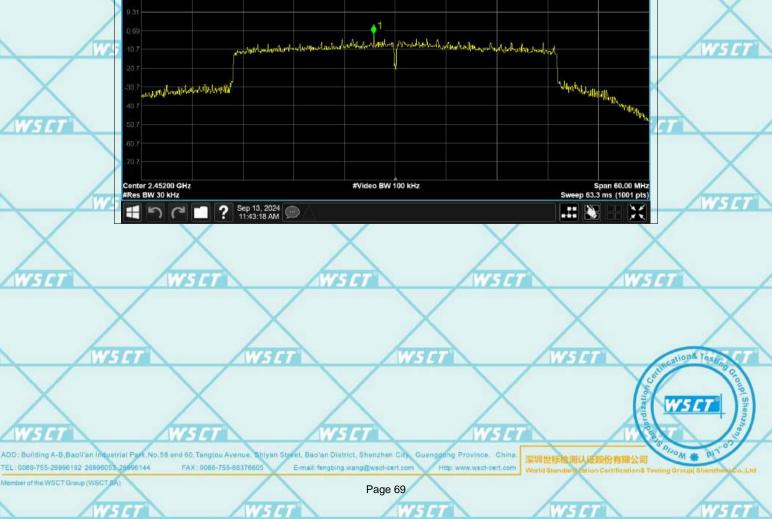


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appropriate appropriate



#Video BW 100 kHz





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6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

_		The state of the s	A COL			
	Test Requirement:	FCC Part15 C Section 15.247 (d)				
	Test Method:	KDB558074				
	Limit: T WSE	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).				
,	Test Setup:	Spectrum Analyzer EUT	WS			
	Test Mode:	Transmitting mode with modulation				
	WSET WSE	 The testing follows 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. 	WS			
	Test Procedure:	 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the 				
7	WSET WSE	maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over	WS			
	WSLI	a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded				
	X	against the limit line in the operating frequency band.	\rangle			
	Test Result:	PASS	The			

WSET

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WSET

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D: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Statet, Bao'an District, Shanzhen City, Guangdong Province, Chi L: 0086-755-26996192 26996053 29896144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com 家圳世标检测认证股份有限公司 A PIT

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6.5.2. Test Data(worst)





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UT WSD

VSCT WSCT

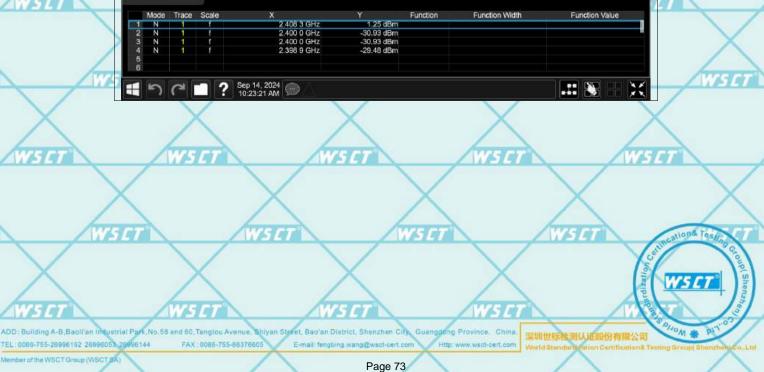


















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? Sep 14, 2024 (

+ Input Z. 50 Ω Corr CCorr Freq Ref. Int (S)

Sep 14, 2024 10:32:55 AM

FAX: 0086-755-86376605

#Video BW 300 kHz

Ref Lvl Offset -2.73 dB Ref Level 17.27 dBm

#Video BW 300 kHz

-1.70 dBm -39.83 dBm -39.83 dBm -38.47 dBm 1 2 3 4 5 6 M W W W W W

cale/Div 10 dB

instruction of property

Center 2.42200 GHz #Res BW 100 kHz

1 5 6

KEYSIGHT Input RF

1 Spectrum

Scale/Div 10 dB

Start 2.35200 GHz #Res BW 100 kHz

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