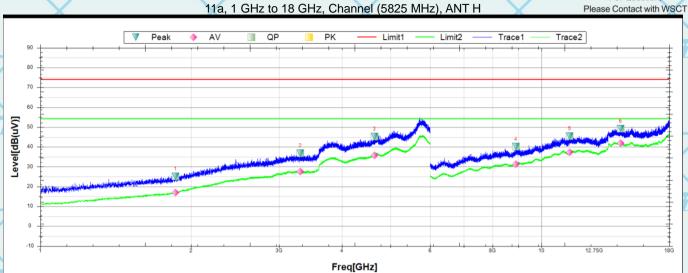


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ac MR



Certificate Number : AT-3951



Susputed Data List Reading Factor Level Limit Margin Deg Freq. NO. **Polarity** Trace Verdict [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] [°] 1861.2500 25.2 1.25 23.95 74 -48.8 335.5 Horizontal PΚ Pass 2 3305.6250 36.74 8.62 28.12 74 -37.26 359 Horizontal PΚ Pass 3 4645.6250 45.29 14.45 30.84 74 -28.71 359 PΚ Pass Horizontal 4 PΚ 8898.0000 40.13 37.36 2.77 74 -33.87 201.4 Horizontal Pass 5 11391.0000 45.5 39.15 6.35 74 -28.5 287.4 Horizontal Pass 14397.0000 49.28 40.98 8.3 74 -24.72 360.1 Horizontal PΚ Pass

7	Final	Data List										L
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
7	1	1861.2500	17.05	1.25	15.8	54	-36.95	335.5	Horizontal	AV	Pass	
	2	3305.6250	27.65	8.62	19.03	54	-26.35	359	Horizontal	AV	Pass	X
	3	4645.6250	35.64	14.45	21.19	54	-18.36	359	Horizontal	AV	Pass	
7	4	8898.0000	31.42	37.36	-5.94	54	-22.58	201.4	Horizontal	AV	Pass	L
	5	11391.0000	37.32	39.15	-1.83	54	-16.68	287.4	Horizontal	AV	Pass	
	6	14397.0000	41.98	40.98	1	54	-12.02	360.1	Horizontal	AV	Pass	

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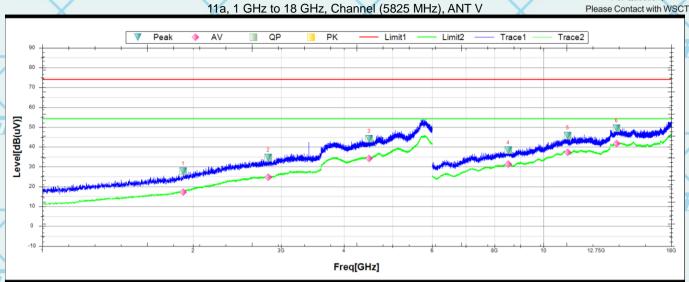


ac-MR Certificate Number : AT-3951



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Suspu	ited Data Lis	st								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1910.0000	27.71	1.64	26.07	74	-46.29	188.6	Vertical	PK	Pass
2	2825.6250	34.66	7.05	27.61	74	-39.34	76.2	Vertical	PK	Pass
3	4490.0000	44.15	13.63	30.52	74	-29.85	67.8	Vertical	PK	Pass
4	8508.0000	38.3	37.2	1.1	74	-35.7	143.9	Vertical	PK	Pass
5	11182.5000	45.79	39.34	6.45	74	-28.21	136.7	Vertical	PK	Pass
6	13995.0000	49.38	41.49	7.89	74	-24.62	12.1	Vertical	PK	Pass

7	Final	Data List										_
_	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB (uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic t	
	1	1910.0000	17.18	1.64	15.54	54	-36.82	188.6	Vertical	AV	Pass	
	2	2825.6250	24.8	7.05	17.75	54	-29.2	76.2	Vertical	AV	Pass	×
	3	4490.0000	34.27	13.63	20.64	54	-19.73	67.8	Vertical	AV	Pass	7
7	4	8508.0000	31.27	37.2	-5.93	54	-22.73	143.9	Vertical	AV	Pass	7
	5	11182.5000	37.22	39.34	-2.12	54	-16.78	136.7	Vertical	AV	Pass	
	6	13995.0000	41.6	41.49	0.11	54	-12.4	12.1	Vertical	AV	Pass	

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.

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2. Emission Level= Reading Level+ Probe Factor +Cable Loss.3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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#### 7.4 ANTENNA REQUIREMENT

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#### Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

#### **Antenna Gain**

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The Bluetooth antenna is a FIPA Antenna, it meets the standards, and the best case gain of the antenna is -3.73dBi.

anten	11a 15 -3.7 30DI.				
WSET	WSET	WSCT	WSET	WSET	
WS	WIS	TET W	15181	WSET	WSLI
WSET	WSET	WSET	WSET	WSET	
WS			$\times$	WSET	WSLT
WSET	WSET	WSET	WSET	WSET	
WS			SET	WSET	WSET
WSET	WSET	WSET	WSET	WSET	
			X	WSET*	WSGT
iffication & Tex	ung o				



nzhen) Co.,Ltd.





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## 7.5 EMISSION BANDWIDTH

7.5.1 TEST EQUIPMENT

Please refer to Section 5 this report.

For Question,
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#### 7.5.2 TEST PROCEDURE

1	-26dB Bandwidth	and 99% Occupied Bandwidth:		
j	Test Method:		spectrum analyzer in peak hold mode.	1/4
			e emission that is 26 dB down from the peak of the	Т
			/ setting of the analyzer. Readjust RBW and repeat	
	X	measurement as needed until the RBV		
	T4 Ei C			-
		ing – 26dB Bandwidth:	Test Equipment Setting – 99%% Bandwidth:	-
	a)Attenuation: Auto b)Span Frequency: >	26dD Dandwidth	a)Span: 1.5 times to 5.0 times the OBW	
/		tely 1% of the emission bandwidth	b)RBW: 1 % to 5 % of the OBW	
	d)VBW: VBW > RE		c)VBW: ≥ 3 x RBW	1
\	e)Detector: Peak		d)Detector: Peak	1
÷	f)Trace: Max Hold	<del></del>	e)Trace: Max Hold	
L	g)Sweep Time: Auto	WSET WSET	WSET	1/
	6 dB Bandwidth:			1
	Test Method:	a)The transmitter was radiated to the	spectrum analyzer in peak hold mode.	1
			with KDB789033 D02 v01 for Compliance Testing of	
			structure (U-NII) Devices - section (C) Emission	
	WSET N	Bandwidth.	AWS CT	
		c)Multiple antenna system was perfor	med in accordance with KDB662911 D01 v02r01	1
		Emissions		
		Testing of Transmitters with Multiple (		
1		d)Measured the spectrum width with p	power higher than 6dB below carrier.	
j	Test Equipment Sett	ing:	W5FT W5	1
	a)Attenuation: Auto	CID D. 1 114	e)Detector: Peak	
	b)Span Frequency: >	> 6dB Bandwidth	f)Trace: Max Hold	
	c)RBW: 100kHz		g)Sweep Time: Auto	
	d)VBW: $\geq 3 \times RBV$	W		
	Maximum Condu	cted Output Power Measurement:	WSTT	
	Test Method:	a)The transmitter output (antenna por		
/			with KDB789033 D02 v01 for Compliance Testing of	
			structure (U-NII) Devices - section (E) Maximum	
1			ement using a Power Meter (PM) =>b) Method PM-G	
3		(Measurement using a gated RF aver	age power meter).  bring in accordance with KDB662911 D01 v02r01	45
2/_		Emissions	offiled in accordance with NDB002911 DOT V02101	74
		Testing of Transmitters with Multiple (	Outputs in the Same Band	
	X		ted output power with multiple antenna systems, add	
		every result of the values by mathema		
	Test Equipment Sett	ing: Detector - Average	AVECTO AVECTO	1
	Power Spectral D		/ IFIG	₽
/	Test Method:		t) was connected RF switch to the spectrum analyzer.	/
		b)Test was performed in accordance	with KDB789033 D02 v01 for Compliance Testing of	1
/			structure (U-NII) Devices - section (F) Maximum Power	1
-		Spectral Density (PSD).		
1			ormed in accordance KDB662911 D01 v02r01 in-Band	4/
		Power		
		• • • • • • • • • • • • • • • • • • • •	ts (a) Measure and sum the spectra across the	
		outputs.		
			f output 1 is summed with that in the first spectral bin of	
	acation & Testino		al bin of output 3 and so on up to the Nth output to	
/	SICO	obtain the value for		

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frequency bins is computed in the same way.

the other

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the first frequency bin of the summed spectrum. The summed spectrum value for each of

e)For 5.725~5.85 GHz, the measured result of PSD level must add 10log(500kHz/RBW)







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Test Equipment Setting:

a)Attenuation: Auto

b)Span Frequency: Encompass the entire emissions bandwidth (EBW) of

and the final result should ≤ 30 dBm.

the signal

c)RBW: 1000 kHz

d)VBW: 3000 kHz

e)Detector: RMS f)Trace: AVERAGE g)Sweep Time: Auto

e)Sweep Time: Auto

h)Trace Average: 100 times

Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

Frequency Stability Measurement:

Test Method:

a) The transmitter output (antenna port) was connected to the spectrum analyzer.

b)EUT have transmitted absence of modulation signal and fixed channelize.

c)Set the spectrum analyzer span to view the entire absence of modulation emissions

d)Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.

e)fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 106

the limit is less than ±20ppm (IEEE 802.11nspecification).

f)The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of

g)Extreme temperature is 0°C~40°C

Test Equipment Setting:

a)Attenuation: Auto

b)Span Frequency: Entire absence of modulation emissions bandwidth

c)RBW: 10 kHz

d)VBW: 10 kHz

CONFIGURATION OF THE EUT

Same as section 3.4 of this report

7.5.4 EUT OPERATING CONDITION

Same as section 3.5 of this report.

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		For Questio
.5.5 LIMIT		ase Contact wit
-26dB Bandwidth and 99% Occupied Bandwidth:		www.wsct-cert
Limit: No restriction limits.	Average Average	
-6 dB Bandwidth:	WELL	
Limit: For digital modulation systems, the r	minimum 6dB bandwidth shall be at least 500 kHz.	
Test Equipment Setting:		
a)Attenuation: Auto	e)Detector: Peak	
b)Span Frequency: > 6dB Bandwidth	f)Trace: Max Hold	
c)RBW: 100kHz	g)Sweep Time: Auto 5 / 7	TT
d)VBW: ≥ 3 x RBW	3/	
Maximum Conducted Output Power Measurement:		
∑5.15~5	5.25 GHz	
Limit of Outdoor access point:	Limit of Indoor access point:	
The maximum conducted output power over the	The maximum conducted output power over the	- 4
requency band of operation shall not exceed 1 W	frequency band of operation shall not exceed 1 W	
30dBm) provided the maximum antenna gain does not		
exceed 6 dBi. If transmitting antennas of directional gain		
greater than 6 dBi are used, both the maximum	exceed 6 dBi. If transmitting antennas of directional	
conducted output power and the maximum power	gain greater than 6 dBi are used, both the maximum	
spectral density shall be reduced by the amount in dB	conducted output power and the maximum power	77°
hat the directional gain of the antenna exceeds 6 dBi.	spectral density shall be reduced by the amount in	
The maximum e.i.r.p. at any elevation angle above 30	dB	
degrees as measured from the horizon must not exceed		
25 mW (21 dBm).	dBi.	
Limit of Fixed point-to-point access points:	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
he maximum conducted output power over the	The maximum conducted output power over the	
requency band of operation shall not exceed 1 W	frequency band of operation shall not exceed 250	
30dBm). Fixed point-to-point U-NII devices may employ		
ntennas with directional gain up to 23 dBi without any	(24dBm) provided the maximum antenna gain does	
corresponding reduction in the maximum conducted butput power or maximum power spectral density. For	not exceed 6 dBi. If transmitting antennas of directional	77°
ixed point-to-point transmitters that employ a directional		
	conducted output power and the maximum power	
antenna gain greater than 23 dBi, a 1 dB reduction in	spectral density shall be reduced by the amount in	
naximum conducted output power and maximum power spectral density is required for each 1 dB of	dB	
antenna gain in excess of 23 dBi.	that the directional gain of the antenna exceeds 6	
Mr. 25 5 25 CH- 8	dBi.	
∑5.25-5.35 GHz &		
	cy bands of operation shall not exceed the lesser of 250	
nW (24dBm) or 11 dBm 10 log B, where B is the 26 dB		
ntennas of directional gain greater than 6 dBi are used		
	e amount in dB that the directional gain of the antenna	
xceeds 6 dBi.	5 05 011	_
∑5.725~		
he maximum conducted output power over the frequen		
ransmitting antennas of directional gain greater than 6 c		. /
	reduced by the amount in dB that the directional gain of	
ne antenna exceeds 6 dBi. However, fixed point-to-poin	nt U-INII devices operating in this band may employ	
ransmitting antennas with		
irectional gain greater than 6 dBi without any correspon	naing reauction in transmitter conducted power.	
ower Spectral Density		
<b>⊠</b> 5.15~5	5.25 GHz	777
Limit of Outdoor access point: 17 dBm/MHz	Limit of Indoor access point: 17 dBm/MHz	
Limit of Fixed point-to-point access points: 17		
Bm/MHz	dBm/MHz	
☐5.25-5.35 GHz	11 dBm/MHz	
	11 dBm/MHz	
	30 dBm/500kHz	
	JU UDITI/JUUNI IZ	
requency Stability Measurement:	in the hand of energtion under all acreditions of a small	
	in the band of operation under all conditions of normal	
operation as specified in the user's n The transmitter center frequency tole		
The transmitter center frequency tole	erance shall be $\pm$ 20 ppm maximum for the 5 GHz band	

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802.11n specification).

#### 7.5.6 TEST RESULT

### -26dB Bandwidth and 99% Occupied Bandwidth

Ź	Product	: EUT-Sample	Test Mode	: See section 3.4	7
	Test Item	: -26dB Bandwidth/-6dB Bandwidth and 99% Occupied Bandwidth	Temperature	: <b>25</b> °C	
	Test Voltage	: DC 3.87V	Humidity	: 56%RH	
	Test Result	: PASS			7

#### -26Db&99% Bandwidth

1	Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict	
	a	5180	23.32	16.495	0.5	Pass	
	a	5240	19.73	16.465	0.5	Pass	
	a	5260	21.94	16.447	0.5	Pass	
_	<b>⊿</b> /a5∠	5320	21.85	16.477	0.5	Pass	Z
	а	5500	20.99	16.497	0.5	Pass	
	а	5700	22.95	16.442	0.5	Pass	
	n20	5180	21.90	17.576	0.5	Pass	
7	n20	5240	20.55 M/S/	17.576	0.5	Pass	
	n20	5260	21.74	17.549	0.5	Pass	
	n20	5320	20.58	17.593	0.5	Pass	L
	n20	5500	21.73	17.591	0.5	Pass /	۸
	n20	5700	22.52	17.566	0.5	Pass	
_	n40	5190	44.84	35.968	0.5	Pass	2
	n40	5230	50.32	36.041	0.5	Pass	
	n40	5270	45.06	36.025	0.5	Pass	
	n40	5310	48.63	36.086	0.5	Pass	
70	n40	5510	53.17 W57	36.027	0.5	Pass	
	n40	5670	53.40	35.958	0.5	Pass	
	ac20	5180	20.35	17.579	0.5	Pass	
	ac20	5240	22.27	17.601	0.5	Pass /	î
	ac20	5260	20.10	17.559	0.5	Pass	7
-	ac20	5320	20.36	17.599	0.5	Pass	Z
	ac20	5500	22.00	17.591	0.5	Pass	
	ac20	5700	19.98	17.573	0.5	Pass	
	ac40	5190	40.00	35.976	0.5	Pass	
78	ac40	5230	41.04 W5C	36.023 W5	0.5	Pass	
	ac40	5270	40.11	35.977	0.5	Pass	
	ac40	5310	41.29	36.043	0.5	Pass	>
	ac40	5510	40.01	36.008	0.5	Pass	
	ac40	5670	40.39	35.972	0.5	Pass	5
EC	tiac80s/	5210	90.10	75.362	0.5	Pass	1
HIL	ac80	§ <b>5290</b>	84.10	75.294	0.5	Pass	
	ac80	5530	80.65	75.316	0.5	Pass	
	ac80	5610	86.09	75.353	0.5	Pass	
7		SIVERT	WEE	WE	777	722	

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-6dB&99% Bandwidth

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•	4-400	Danaman					
	Mode	Frequency	-6 dB Bandwidth	99%dB Bandwidth	Limit -6 dB	Verdict	
		(MHz)	(MHz)	(MHz)	Bandwidth (MHz)		<i>FT</i>
7	а	5745	13.17	16.360	0.5	Pass	
	а	5825	14.19	16.328	0.5	Pass	
	n20	5745	15.06	17.532	0.5	Pass	
	n20	5825	13.85	17.528	0.5	Pass	
7	n40	5755	35.11	35.838	0.5	Pass	
	n40	5795	33.89	35.854	0.5	Pass	
	ac20	5745	15.12	17.525	0.5	Pass	
	ac20	5825	15.90	17.556	0.5	Pass	
	ac40	5755	W5 7 35.08	W 5 35.825	W 5 0.5	Pass	<i>L</i> 7
/	ac40	5795	35.08	35.825	0.5	Pass	
	ac80	5775	75.08	75.171	0.5	Pass	

$\times$	ac80	5775	75.08	75.171	0.5	Pass	
WSET		WSET	WSET	WSET		W5ET°	
	X		$\times$	X	$\times$	$\times$	
	<u> WSCT</u> °		WSET	WSET	WSET	WSET	
WSET		WSET	WSET	WSET		WSET*	
	WSET		WSLT	X	WSET	WSEI	
WSET		WSET	WSLT	WSET		WSET	
	WSET		WSET	X	WSET	WSE	
WSET		WSET	WSLT	WSET		WSET	
	Son & Tax		WSET	WSET	WSET	WSE	
iffe	ation & Testing						

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Report No.: WSCT-ANAB-R&E240700031A-Wi-Fi2

-26Db&99% Bandwidth www.wsct-cert.com **Test Graphs** -26dB Bandwidth NVNT a 5180MHz Ant1 SCPI Spectrum Analyzer 1 Occupied BW + Center Freq: 5.180000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Trig: Free Run Gate: Off #IF Gain: Low Mkr3 5.191663000 GHz Ref LvI Offset 5.21 dB Ref Value 25.21 dBm -23.67 dBm Scale/Div 10.0 dB Center 5.18000 GHz #Res BW 200.00 kHz Span 30 MHz Sweep 1.33 ms (10001 pts) #Video BW 620.00 kHz Trace 1 Measure Trace Occupied Bandwidth 16.495 MHz Total Power 19.5 dBm % of OBW Powe x dB Transmit Freq Error x dB Bandwidth 4.365 kHz 23.32 MHz 99.00 % -26.00 dB \*\* **1** 5 C **1** Sul 15, 2024 5:04:52 PM -26dB Bandwidth NVNT a 5240MHz Ant1 + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 5.240000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Mkr3 5.249864000 GHz Ref Lvi Offset 5.25 dB Ref Value 25.25 dBm -23.21 dBm Scale/Div 10.0 dB Center 5.24000 GHz #Res BW 200.00 kHz Span 30 MHz Sweep 1.33 ms (10001 pts) #Video BW 620.00 kHz 2 Metrics Measure Trace Trace 1 Occupied Bandwidth
16.465 MHz 19.3 dBm Total Power % of OBW Powe 99.00 % -26.00 dB Transmit Freq Error -592 Hz 19.73 MHz 















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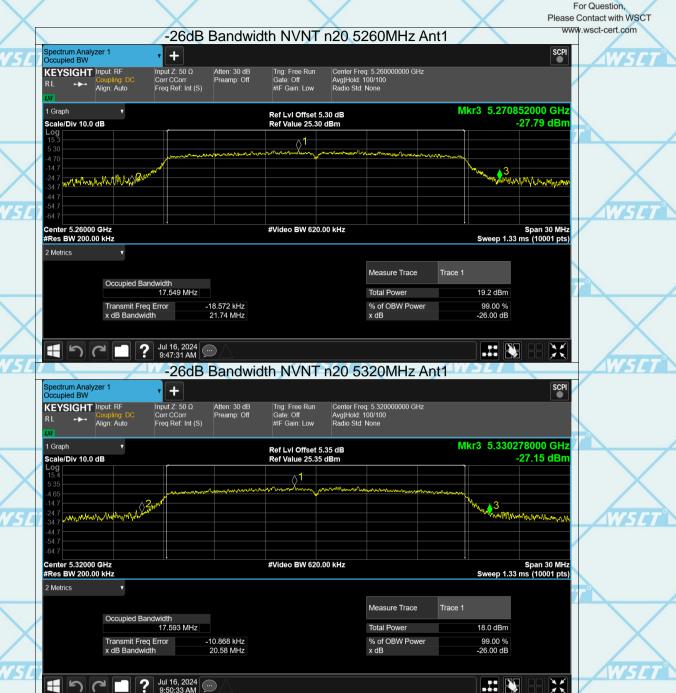


















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17.566 MHz 18.1 dBm Total Power -38.656 kHz % of OBW Powe 99.00 % Transmit Freq Error ? Jul 16, 2024 .... \*\*





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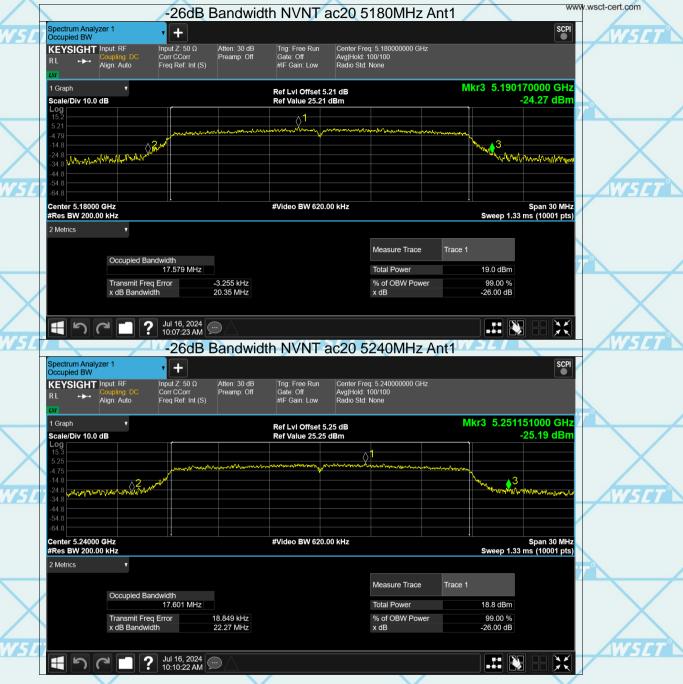


World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.

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Report No.: WSCT-ANAB-R&E240700031A-Wi-Fi2 Certificate Number : AT-3951 For Question, Please Contact with WSCT www.wsct-cert.com -26dB Bandwidth NVNT ac20 5260MHz Ant1 Spectrum Analyzer 1 Occupied BW Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 5.260000000 GHz Avg|Hold: 100/100 Radio Std: None Trig: Free Run Gate: Off #IF Gain: Low Atten: 30 dB Preamp: Off KEYSIGHT Input: RF Align: Auto Mkr3 5.270042000 GHz 1 Granh Ref LvI Offset 5.30 dB Ref Value 25.30 dBm -21.83 dBm Scale/Div 10.0 dB may make why from his Span 30 MHz Sweep 1.33 ms (10001 pts) Center 5.26000 GHz #Res BW 200.00 kHz #Video BW 620.00 kHz Trace 1 Measure Trace Occupied Bandwidth 17.559 MHz Total Power 19.3 dBm Transmit Freq Error x dB Bandwidth -5.759 kHz 20.10 MHz % of OBW Power x dB 99.00 % -26.00 dB 1 5 6 -26dB Bandwidth NVNT ac20 5320MHz Ant1 + 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 Center Freq: 5.320000000 GHz Avg|Hold: 100/100 Radio Std: None Align: Auto Mkr3 5.330172000 GHz I Graph Ref LvI Offset 5.35 dB Ref Value 25.35 dBm -25.73 dBm Scale/Div 10.0 dB Center 5.32000 GHz #Res BW 200.00 kHz #Video BW 620.00 kHz Span 30 MHz Sweep 1.33 ms (10001 pts) 2 Metrics Measure Trace Occupied Bandwidth
17.599 MHz 18.0 dBm Total Power -6.393 kHz % of OBW Powe 99.00 % Transmit Freq Error



DHOM \* PI

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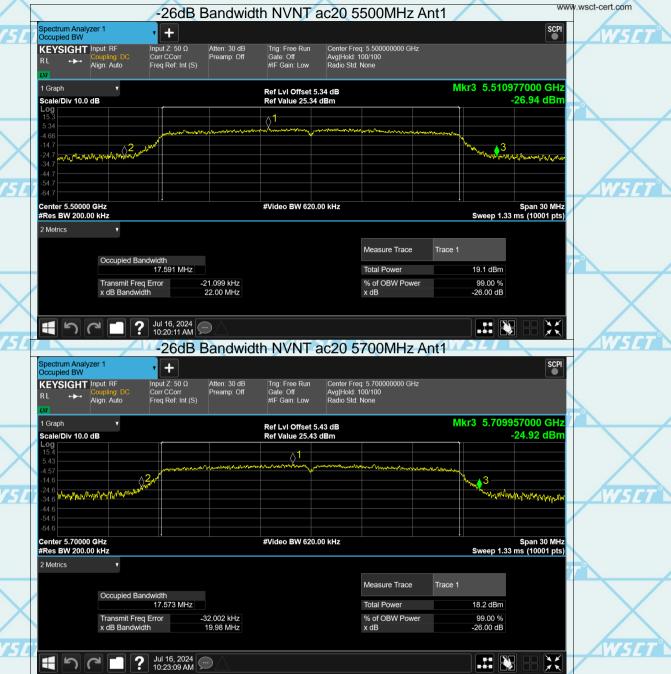
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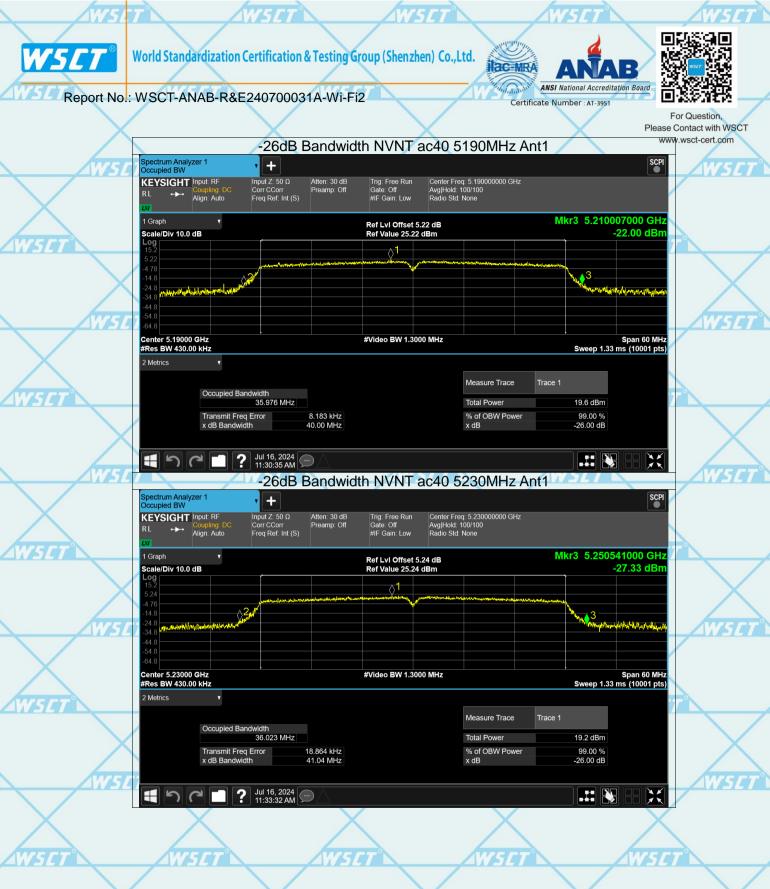
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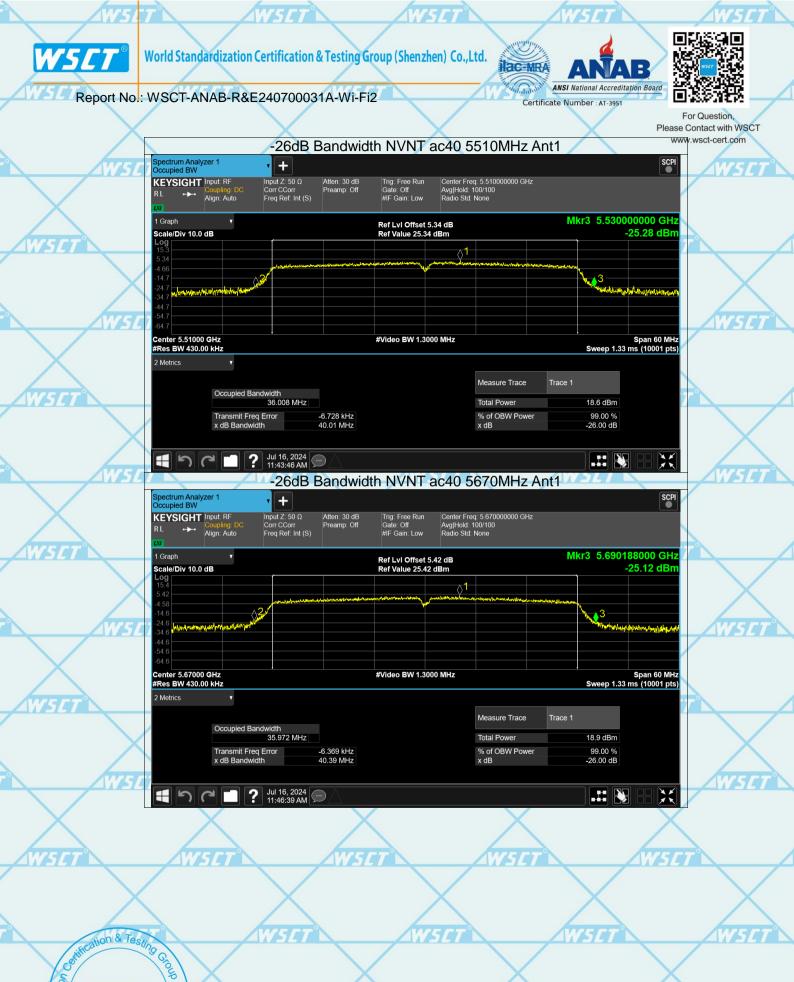


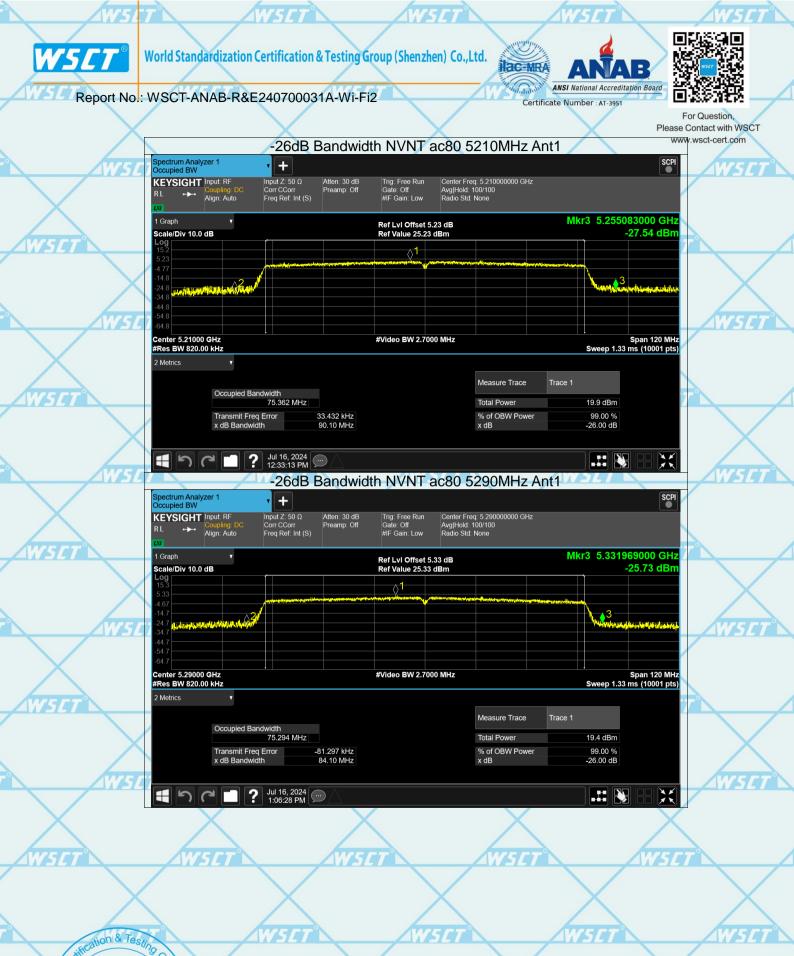
















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World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.



Certificate Number : AT-3951

#### -6dB&99% Bandwidth Please Contact with WSCT www.wsct-cert.com Test Graphs -6dB Bandwidth NVNT a 5745MHz Ant1 SCPI Spectrum Analyzer 1 Occupied BW + Center Freq: 5.745000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Trig: Free Run Gate: Off #IF Gain: Low Mkr3 5.751578000 GHz Ref Lvi Offset 5.45 dB Ref Value 25.45 dBm -5.23 dBm Scale/Div 10.0 dB Center 5.74500 GHz #Res BW 100.00 kHz Span 30 MHz Sweep 3.33 ms (10001 pts) #Video BW 300.00 kHz Trace 1 Measure Trace Occupied Bandwidth 16.360 MHz Total Power 17.8 dBm % of OBW Powe x dB Transmit Freq Error x dB Bandwidth -9.119 kHz 13.17 MHz 99.00 % -6.00 dB \*\* **1** 5 6 9:34:35 AM 9:34:35 AM -6dB Bandwidth NVNT a 5825MHz Ant1 + Center Freq: 5.825000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Alian: Auto Mkr3 5.832086000 GHz Ref Lvi Offset 5.52 dB Ref Value 25.52 dBm -5.61 dBm Scale/Div 10.0 dB h. MANA A Center 5.82500 GHz #Res BW 100.00 kHz Span 30 MHz Sweep 3.33 ms (10001 pts) #Video BW 300.00 kHz 2 Metrics Measure Trace Trace 1 Occupied Bandwidth 16.328 MHz 17.1 dBm Total Power % of OBW Powe -11.106 kHz 14.19 MHz 99.00 % -6.00 dB Transmit Freq Error

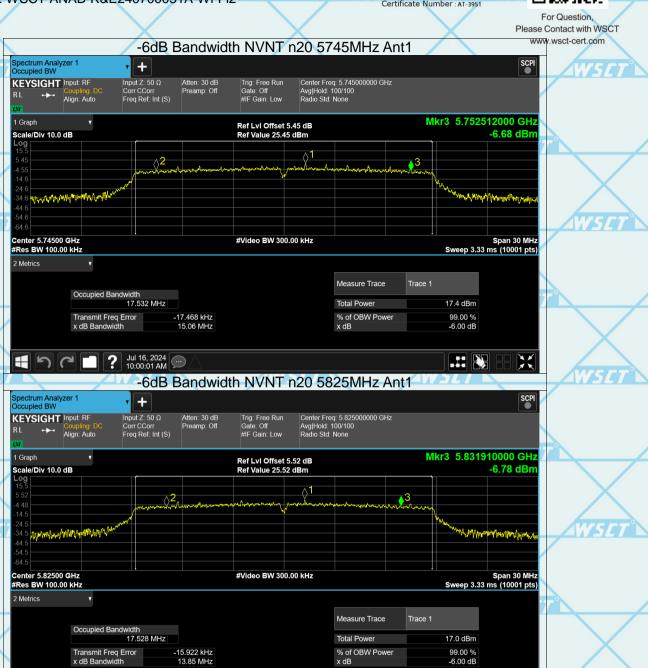






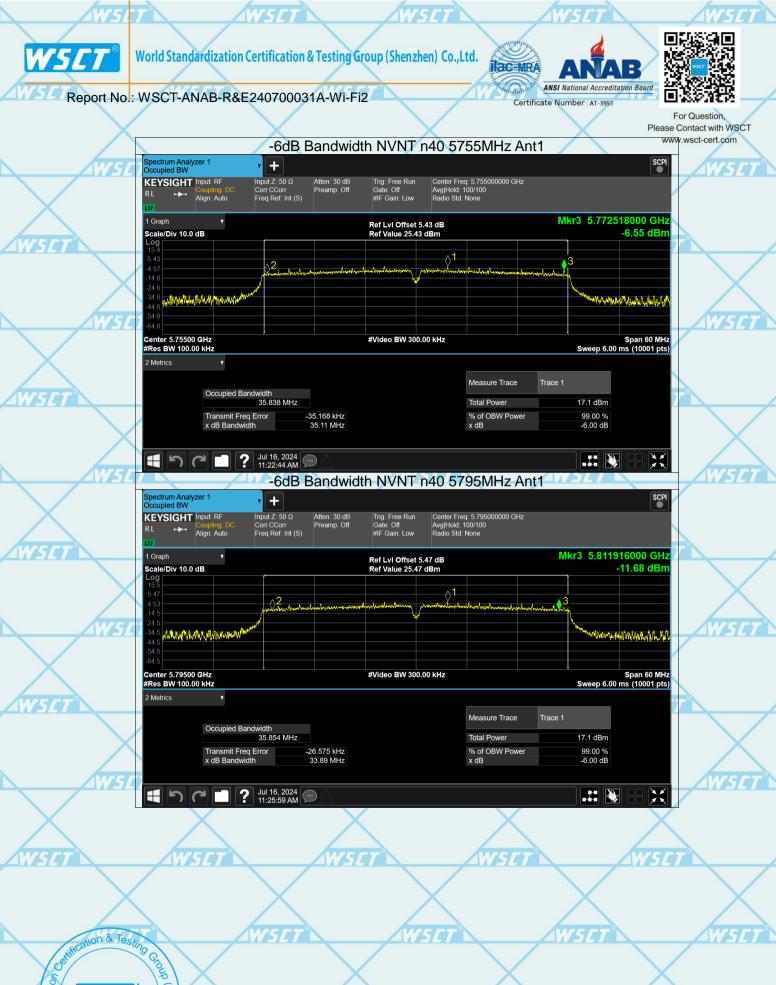
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Jul 16, 2024









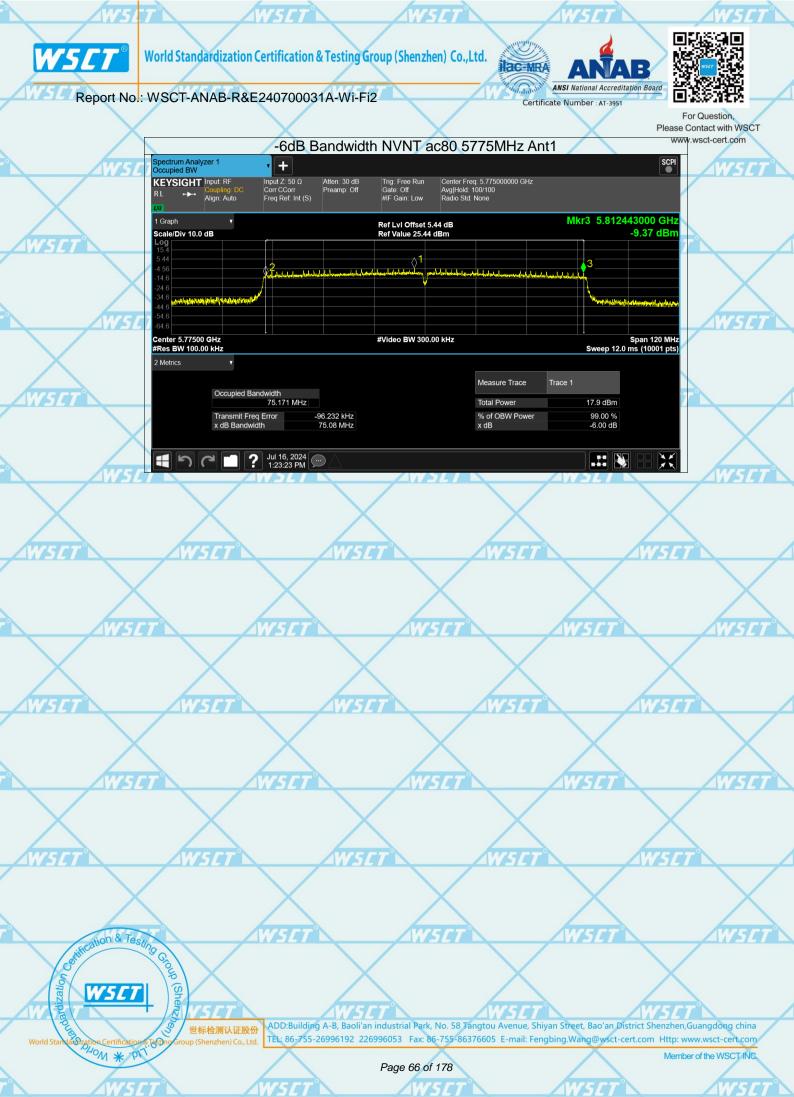






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Certificate Number : AT-3951

# 7.6 MAXIMUM CONDUCTED OUTPUT POWER

Report No.: WSCT-ANAB-R&E240700031A-Wi-Fi2

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	Product	: EUT-Sample	Test Mode	: See section 3.4	
	Test Item	: Maximum Conducted Output Power	Temperature	: 25 °C	
•	Test Voltage	: DC 3.87V	Humidity	: 56%RH	
Ź	Test Result	: PASS		VSET WSE	7/

	Mode	Frequency (MHz)	Total Power	Limit (dBm)	Verdict	
X	а	5180	(dBm) 16.64	24	Pass	
	a	5240	16.26	24	Pass	
V5E	a	5260	16.64	24	Pass	
	a	5320	15.49	24	Pass	
	а	5500	16.28	24	Pass	-
	a /	5700	16.42	24	Pass	
	aw	5775745	16.61	30	Pass	
	/a	5825	16.31	30	Pass	
	n20	5180	15.46	24	Pass	
	n20	5240	15.21	24	Pass	
	n20	5260	15.61	24	Pass	
V5L	n20	5320	14.25	24	Pass	
	n20	5500	15.29	24	Pass	
	n20	5700	15.43	24	Pass	
	n20	5745	14.64	30	Pass	
	n20	5 5825	14.33	30	Pass	
	n40	5190	15.4	24	Pass	
X	n40	5230	14.97	24	Pass	
	n40	5270	15.2	24	Pass	
WEF	n40	5310	14.28	24	Pass	1
	n40	5510	14.92	24	Pass	
	n40	5670	15.53	24	Pass	
	n40	5755	14.46	30	Pass	
	n40	5795	14.31	30	Pass	
	ac20	5180	15.54	24	Pass	
	ac20	5240	15.26	24	Pass	
X	ac20	5260	15.66	24	Pass	
	ac20	5320	14.28	24	Pass	
V5/	ac20	5500	15.25	24	Pass	
	ac20	5700	15.44	24	Pass	
	ac20	5745	14.79	30	Pass	
	ac20	5825	14.24	30	Pass	
	ac40	5190	14.38	24	Pass	
	ac40	5230	13.97	24	Pass	
1	ac40	5270	14.28	24	Pass	
X	ac40	5310	13.44	24	Pass	
	ac40	5510	14.05	24	Pass	
V5L	ac40	5670	14.67	24	Pass	

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	ac40	5755	13.59	30	Pass
	ac40	5795	13.89	30	Pass
	ac80	5210	13.67	24	Pass
	ac80	5290	13.54	24	Pass
	ac80	5530	13.32	24	Pass
	ac80	5610	12.97	24	Pass
	2080	5775	13 25	30	Pass

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			T-7-1	THE	
	$\times$	WSCT	WSUT	WSET	WSET
WISTET	WSET	$\times$	$\times$	$\times$	
	$\times$	$\times$	WSUT	WSET	WSUT
WSET	WSET	$\times$	$\times$	$\times$	
	$\times$	WSET	WSET	WSET	WSUT
WSET	WSET	$\times$	$\times$	$\times$	
	X	WSET	W5ET	WSET	WSET
WSET	$\times$	WSET	$\times$		
	X	X	X	X	X

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

Report No.: WSCT-ANAB-R&E240700031A-Wi-Fi2

lac MR/

Certificate Number : AT-3951

Please Contact with WSCT www.wsct-cert.com **Test Graphs** Power NVNT a 5180MHz Ant1 Spectrum Analyzer 1 Channel Power + Center Freq: 5.180000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Align: Auto 1 Graph Ref LvI Offset 8.21 dB Ref Value 28.21 dBm Scale/Div 10.0 dB Center 5.18000 GHz #Res BW 1.0000 MHz #Video BW 3,0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) Total Channel Power 16.64 dBm / 20.0 MHz -56.37 dBm/Hz Total Power Spectral Density Power NVNT a 5240MHz Ant1 Spectrum Analyzer 1 Channel Power + 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 Center Freq: 5.240000000 GHz Avg|Hold: 100/100 Radio Std: None Align: Auto Ref Lvi Offset 8.25 dB Ref Value 28.25 dBm Scale/Div 10.0 dB Span 40 MHz Sweep 1.00 ms (1001 pts) Center 5.24000 GHz #Res BW 1.0000 MHz #Video BW 3.0000 MHz\* Total Channel Power 16.26 dBm / 20.0 MHz -56.75 dBm/Hz Total Power Spectral Density 





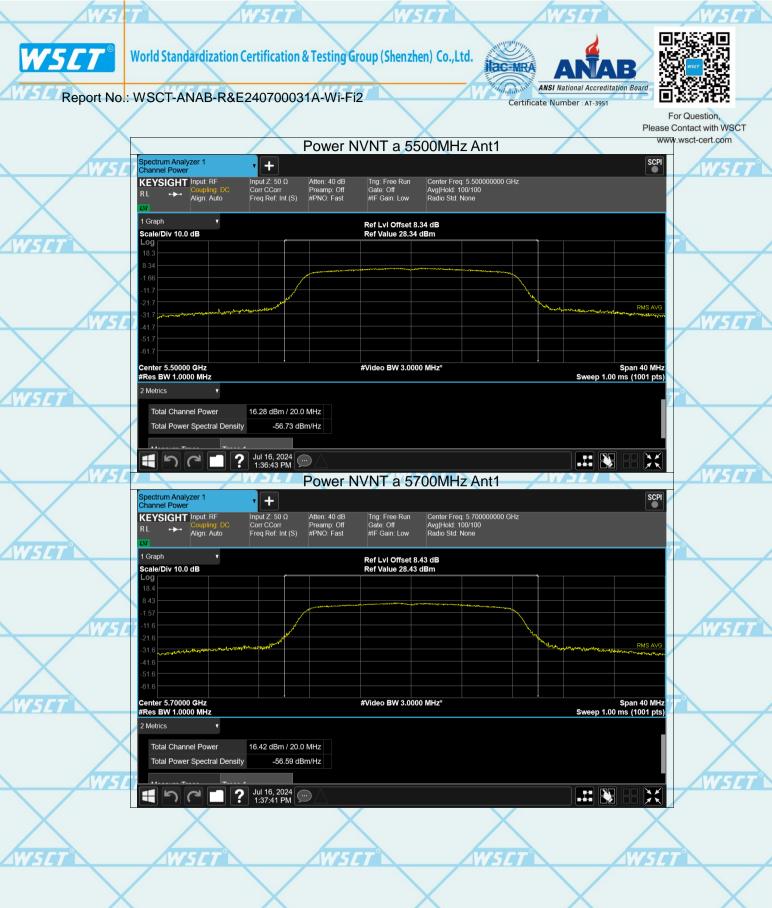


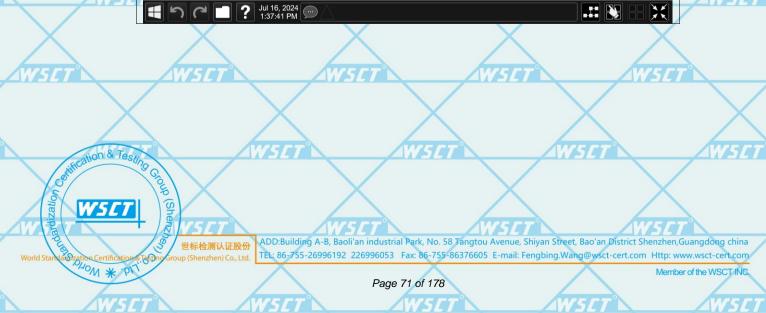






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Certificate Number : AT-3951 Please Contact with WSCT www.wsct-cert.com Power NVNT a 5745MHz Ant1 Spectrum Analyzer 1 Channel Power + Center Freq: 5.745000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF Atten: 40 dB Preamp: Off #PNO: Fast Trig: Free Run Gate: Off #IF Gain: Low Align: Auto Ref LvI Offset 8.45 dB Ref Value 28.45 dBm Scale/Div 10.0 dB Center 5.74500 GHz #Res BW 1.0000 MHz #Video BW 3.0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) Total Channel Power 16.61 dBm / 20.0 MHz -56.40 dBm/Hz Total Power Spectral Density Power NVNT a 5825MHz Ant1 Spectrum Analyzer 1 Channel Power + 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 Center Freq: 5.825000000 GHz KEYSIGHT Input: RF Avg|Hold: 100/100 Radio Std: None Align: Auto 1 Graph Ref Lvi Offset 8.52 dB Ref Value 28.52 dBm Scale/Div 10.0 dB Span 40 MHz Sweep 1.00 ms (1001 pts) Center 5.82500 GHz #Video BW 3.0000 MHz #Res BW 1.0000 MHz Total Channel Power 16.31 dBm / 20.0 MHz -56.70 dBm/Hz Total Power Spectral Density



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Certificate Number : AT-3951 Please Contact with WSCT www.wsct-cert.com Power NVNT n20 5180MHz Ant1 Spectrum Analyzer 1 Channel Power + Center Freq: 5.180000000 GHz Avg|Hold: 100/100 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF Trig: Free Run Gate: Off #IF Gain: Low Align: Auto Ref Lvi Offset 7.21 dB Ref Value 27.21 dBm Scale/Div 10.0 dB Center 5.18000 GHz #Res BW 1.0000 MHz #Video BW 3.0000 MHz\* Span 40 MHz Sweep 1.00 ms (1001 pts) Total Channel Power 15.46 dBm / 20.0 MHz -57.55 dBm/Hz Total Power Spectral Density Power NVNT n20 5240MHz Ant1 Spectrum Analyzer 1 Channel Power + 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 Center Freq: 5.240000000 GHz KEYSIGHT Input: RF Avg|Hold: 100/100 Radio Std: None Align: Auto 1 Graph Ref Lvi Offset 7.25 dB Ref Value 27.25 dBm Scale/Div 10.0 dB Span 40 MHz Sweep 1.00 ms (1001 pts) Center 5.24000 GHz #Video BW 3.0000 MHz #Res BW 1.0000 MHz Total Channel Power 15.21 dBm / 20.0 MHz -57.80 dBm/Hz Total Power Spectral Density



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