







Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com





世际检察认证数数 ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China at Chenzhen Co. 18 TEL:86/755-26986192 26992300 FAX:86-759-86376605 E-mail: Fengbing Wang@wsci-cert.com





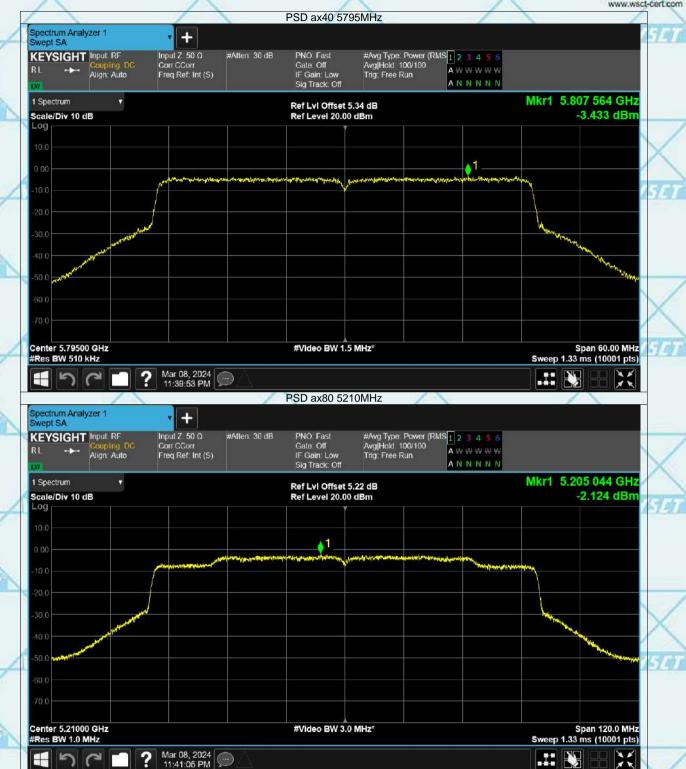




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com

# 7.7 FREQUENCY STABILITY

Product:	EUT-Sample	Test Item:	Frequency Stability
Temperature:	25 ℃	Humidity:	56%RH
Test Voltage:	DC 11.61V	Test Result:	PASS

-							
	Mode	Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	a	5180	5179.94	-60000	-11.58	25	Pass
	a	5240	5239.94	-60000	-11.45	25	Pass
	а	5260	5259.96	-40000	-7.6	25	Pass
	/ a	5320	5319.96	-40000	-7.52	25	Pass
7	a	5500	5499.96	-40000	-7.27	25	Pass
	a	5700	5699.98	-20000	-3.51	25	Pass
	a	5745	5744.96	-40000	-6.96	25	Pass
	a	5825	5824.94	-60000	-10.3	25	Pass
	n20	5180	5179.98	-20000	-3.86	25	Pass
V	n20	5240	5239.92	-80000	-15.27	25	Pass
n	n20	5260	5259.94	-60000	-11.41	25	Pass
	n20	5320	5319.96	-40000	-7.52	25	Pass
	n20	5500	5499.94	-60000	-10.91	25	Pass
	n20	5700	5699.96	-40000	-7.02	25	Pass
	n20	5745	5744.94	-60000	-10.44	25	Pass
b	n20	5825	5824.92	-80000	-13.73	25	Pass
,4	n40	5190	5189.96	-40000	-7.71	25	Pass
	n40	5230	5230	0	0	25	Pass
	n40	5270	5269.96	-40000	-7.59	25	Pass
	n40	5310	5309.96	-40000	-7.53	25	Pass
	n40	5510	5510	0	0	25	Pass
N	n40	5670	5669.96	-40000	-7.05	25	Pass
L	n40	5755	5754.96	-40000	-6.95	25	Pass
	n40	5795	5794.96	-40000	-6.9	25	Pass
	ac20	5180	5179.96	-40000	-7.72	25	Pass
	ac20	5240	5239.94	-60000	-11.45	25	Pass
	ac20	5260	5259.94	-60000	-11.41	25	Pass
	ac20	5320	5319.96	-40000	-7.52	25	Pass
	ac20	5500	5499.96	-40000	-7.27	25	Pass
×	ac20	5700	5699.96	-40000	-7.02	25	Pass
	ac20	5745	5744.96	-40000	-6.96	25	Pass
	ac20	5825	5824.96	-40000	-6.87	25	Pass
	ac40	5190	5189.92	-80000	-15.41	25	Pass
	ac40	5230	5229.92	-80000	-15.3	25	Pass
S.	ac40	5270	5270	0	0	25	Pass
Ľ	ac40	5310	5309.96	-40000	-7.53	25	Pass
	ac40	5510	5509.92	-80000	-14.52	25	Pass
	ac40	5670	5669.96	-40000	-7.05	25	Pass
	ac40	5755	5754.96	-40000	-6.95	25	Pass
	ac40	5795	5794.96	-40000	-6.9	25	Pass
				-80000		25	
	ac80 ac80	5210 5290	5209.92 5289.92	-80000	-15.36 -15.12	25 25	Pass Pass
7				-80000	-15.12		
	ac80	5530	5529.92			25	Pass
	ac80	5610	5609.92	-80000	-14.26	25	Pass
	ac80	5775	5774.92	-80000	-13.85	25	Pass
	ax160	5250	5249.88	-120000	-22.86	25	Pass
3	ax160	5570	5570	0	0	25	Pass
L	ax20	5180	5179.96	-40000	-7.72	25	Pass
	ax20	5240	5239.92	-80000	-15.27	25	Pass
	ax20	5260	5259.96	-40000	-7.6	25	Pass
	ax20	5320	5319.96	-40000	-7.52	25	Pass
	ax20	5500	5499.96	-40000	-7.27	25	Pass
	ax20	5700	5700	0	0	25	Pass
-	ax20	5745	5744.96	-40000	-6.96	25	Pass
C2	ax20	5825	5824.96	-40000	-6.87	25	Pass
/	ax40	5190	5189.96	-40000	-7.71	25	Pass
	ax40	5230	5229.96	-40000	-7.65	25	Pass
	ax40	5270	5269.96	-40000	-7.59	25	Pass
L	ax40	5310	5309.96	-40000	-7.53	25	Pass
			A STATE OF THE PARTY OF T	AN AND ADDRESS OF THE PARTY OF	ALTERNATION AND ADDRESS OF THE PARTY OF THE	A server and a	THE REAL PROPERTY.

世标检测认证股份 Group [Shenzhen] Co. Ltd.

Show \* PIT



Noud \* NO

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







	MICONT AND A		
Donort No .	WSCT-A2LA-I	フタ ニつれいついいい	11/1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
DEDOLLING.	VV OLITAZI AT	へくとしくないし	1 1 A-VVI-FIZ

Certificate #5768.01

For Question, ase Contact with WSCT

						PI	ease Contact v	with V
	ax40	5510	5509.96	-40000	-7.26	25	w.Pass	
	ax40	5670	5669.96	-40000	-7.05	25	Pass	-
	ax40	5755	5754.96	-40000	-6.95	25	Pass	1
-/	ax40	5795	5794.96	-40000	-6.9	25	Pass	1 49
	ax80	5210	5210	0	0	25	Pass	
	ax80	5290	5289.92	-80000	-15.12	25	Pass	
	ax80	5530	5529.92	-80000	-14.47	25	Pass	
	ax80	5610	5609.92	-80000	-14.26	25	Pass	
	ax80	5775	5775	0	0	25	Pass	

NVF197	174781	NISIO	NET GI	NV-10
$\times$	THE WEST	$\times$	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
NV2-10	WATER	N.F.I.A.	N/Ha a	NV57491
$\times$	THE WHITE	$\times$	$\langle  \rangle$	
N/F141	N/A	WEIGH	NVA14 B	77574
$\times$	19 AVETE	$\langle  \rangle$	$\langle  \rangle$	
175191	X	N/F101	WATER OF	V/6-1-0 a
$\times$	TO AVETO	$( \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\langle \ \rangle$	
X	WSU	WESTER	Wester	VV-5147
WSC7 Shenz				

Page 209 of 290

Member of the WSCT INC









Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT







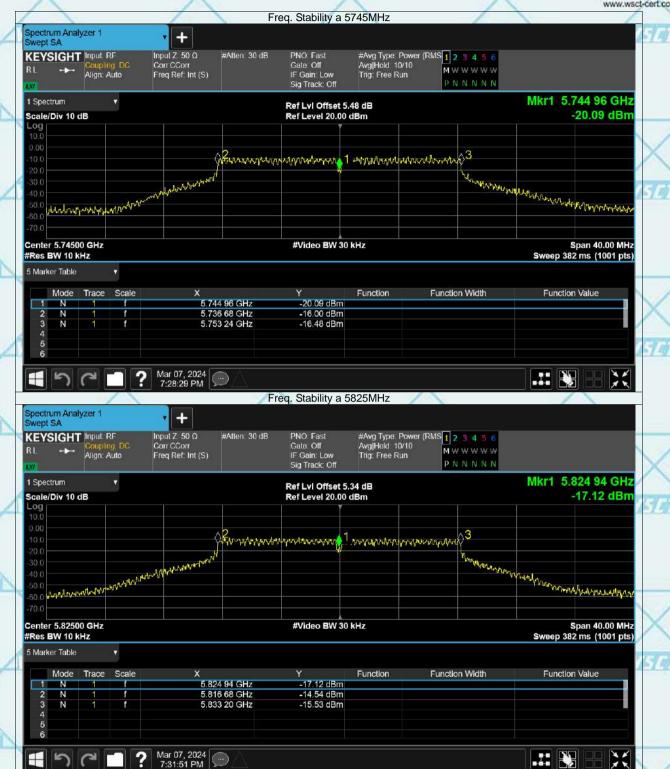






Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01









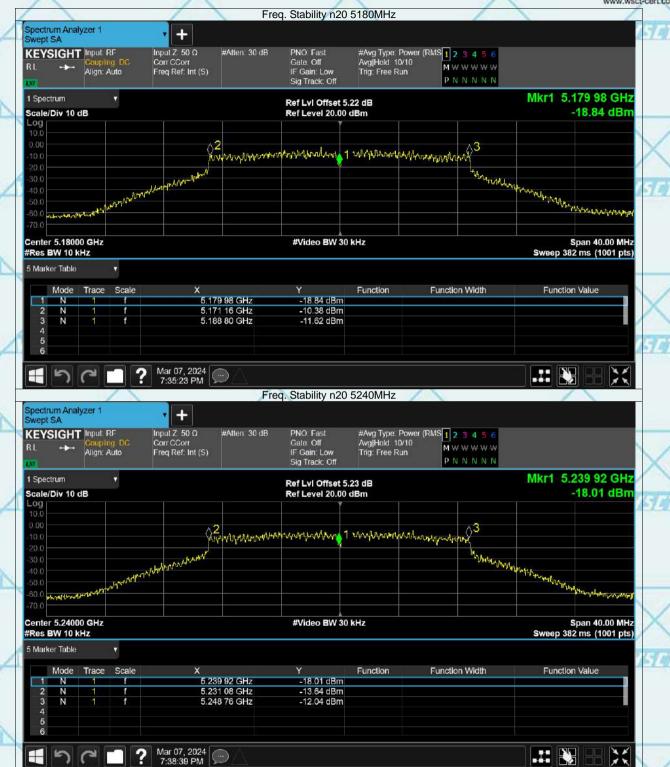




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT









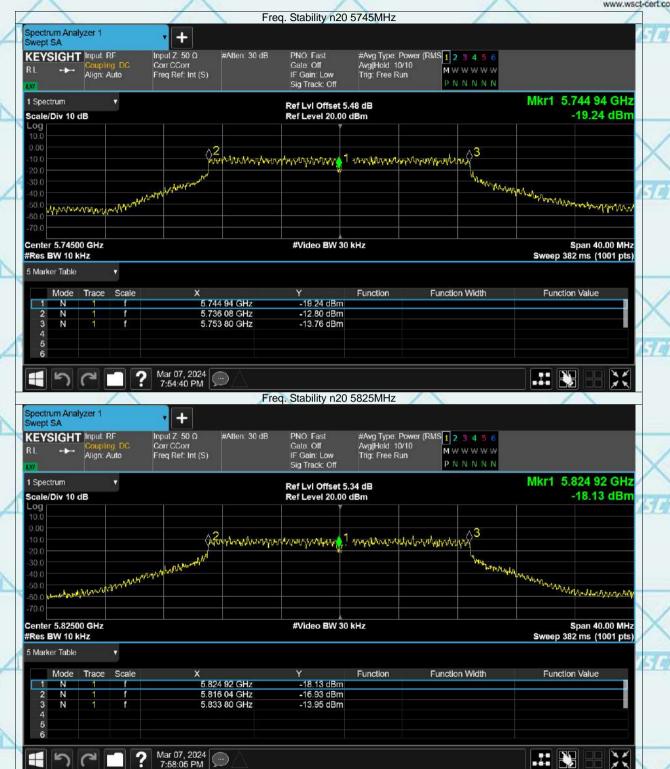




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT







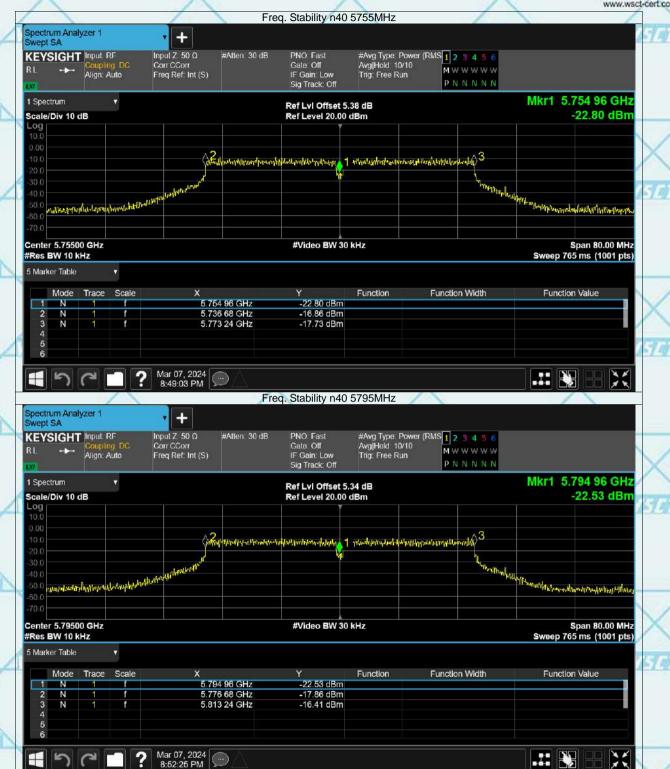






Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT









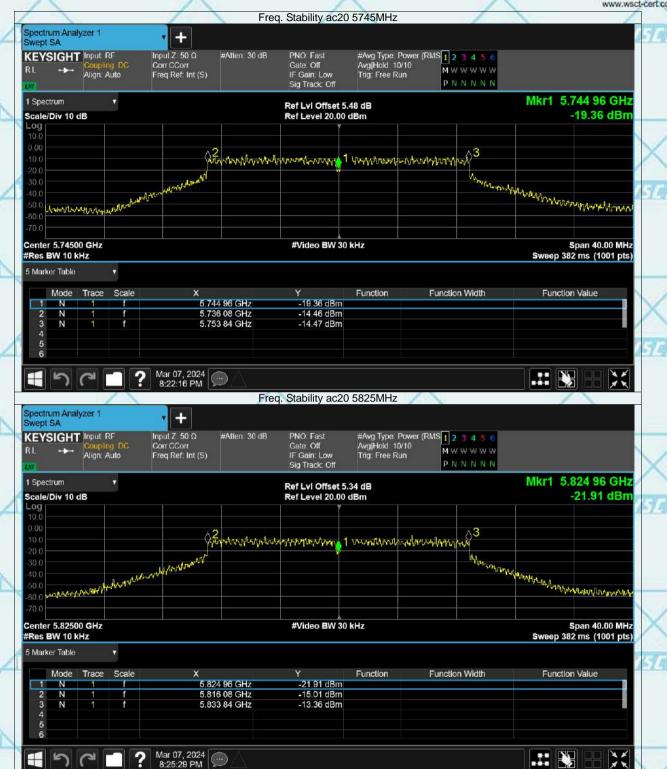




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT







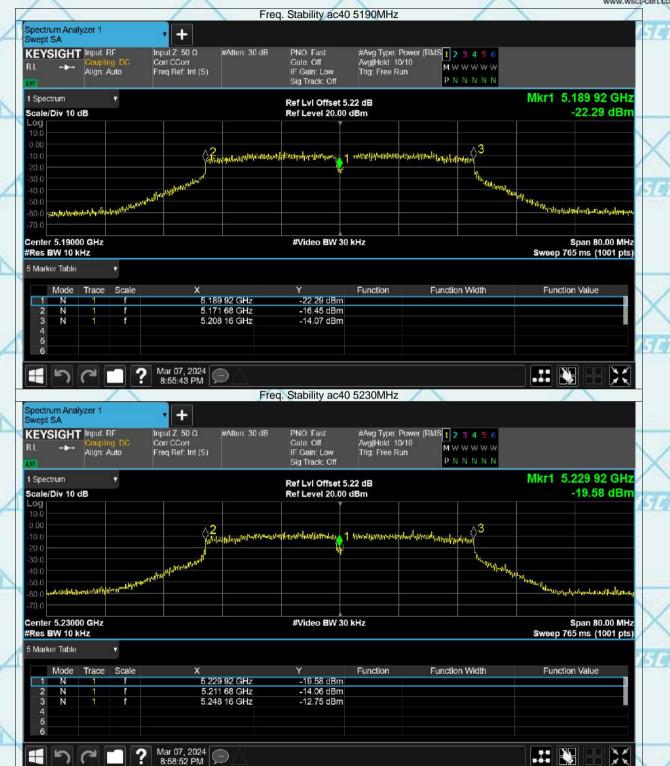




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT









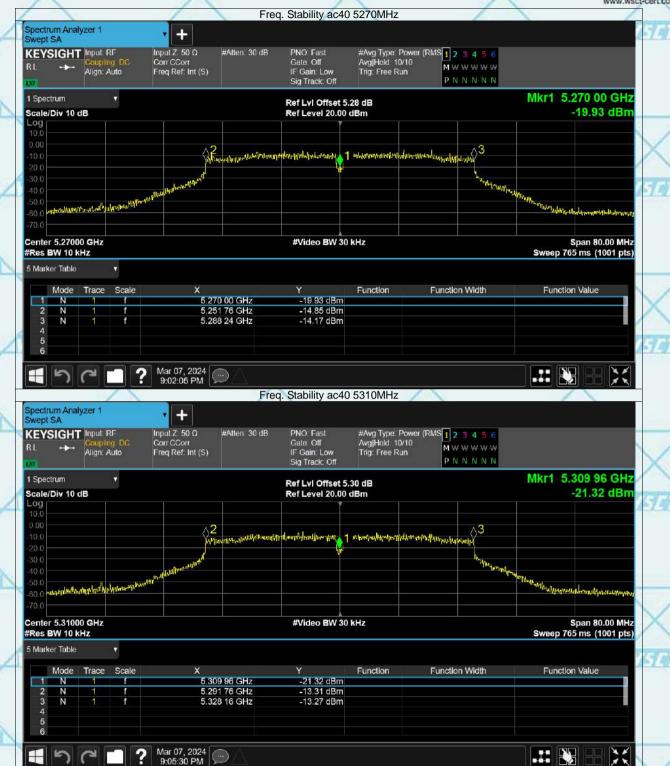




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT











Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01









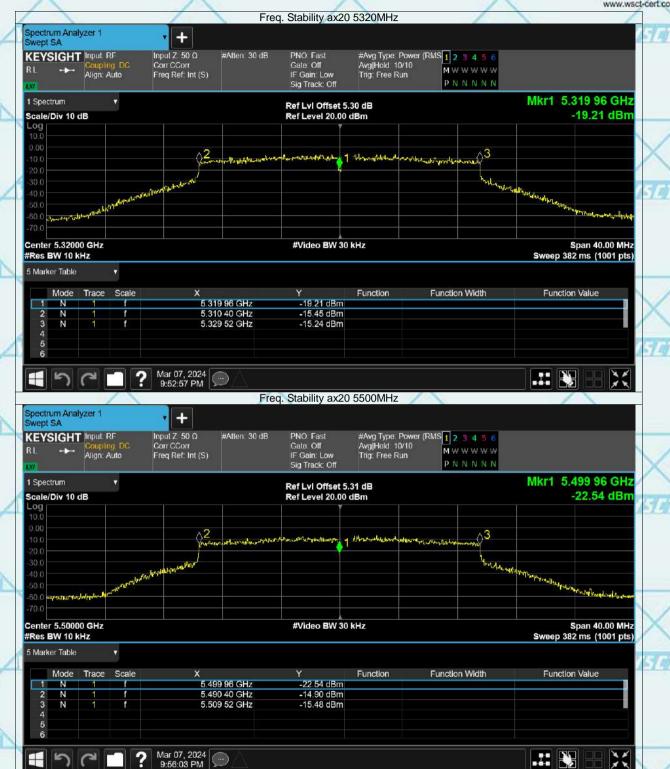




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT





ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao an District, Shenzhen, Guangdong, China TEL:86/755-26988192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com http://www.wsct-cert.com









Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT





ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26998192 26992308 FAX:86-758-86376605 E-mail: Fengbing Wang@wscl-cert.com Http://www.wscl-cert.com





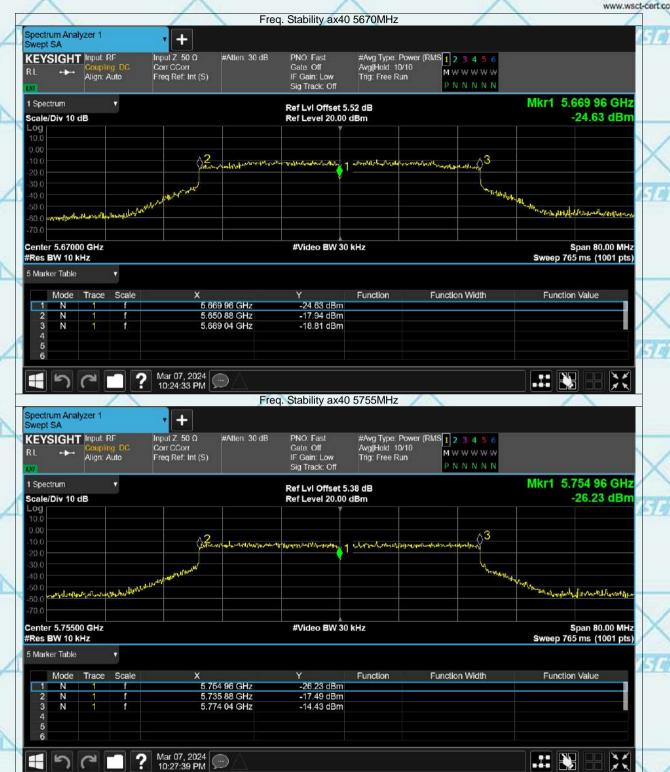




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT









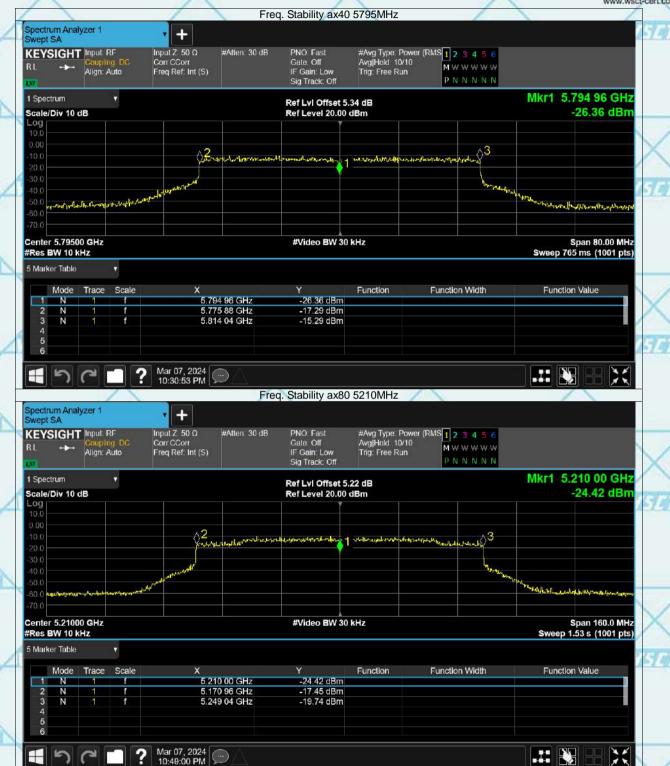




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT





ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao an District, Shenzhen, Guangdong, China TEL:86/755-26988192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com http://www.wsct-cert.com









Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com

# Band Edge Emissions 7.7.1 TEST EQUIPMENT

Please refer to Section 5 this report.

#### Test Procedure

Rand	Edge	<b>Fmissions</b>	Measurement:
Dana	Lage		Micasai Cilicit.

Test Method:

- a.) The EUT was tested according to ANSI C63.10.
- b)The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 1.5 m. All set up is according to ANSI C63.10.
- c) The frequency spectrum from 9 kHz to 40 GHz was investigated. All readings from 9 kHz to 150 kHz are quasi-peak values with a resolution bandwidth of 200 Hz. All readings from 150 kHz to 30 MHz are quasi-peak values with a resolution bandwidth of 9 kHz. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- d)The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
- e) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.

f)Each emission was to be maximized by changing the polarization of receiving antenna both

horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter(EUT) was rotated through three orthogonal axes according to the requirements in

Section 8 and 13 of ANSI C63.10.

#### **Band Edge Emissions Measurement:**

Test Equipment Setting:

- a)Attenuation: Auto
- b)Span Frequency: 100 MHz c)RBW/VBW (Emission in restricted band):
- 1MHz / 3MHz for Peak, 1MHz / 1/T for Average

d)RBW/VBW(Emission in non-restricted band)
1MHz / 3MHz for peak

MHz / 3MHz for Peak,

### 7.7.2 TEST SETUP

Same as section 3.4 of this report

#### 7.7.3 CONFIGURATION OF THE EUT

Same as section 3.4of this report

#### 7.7.4 EUT OPERATING CONDITION

Same as section 3.4 of this report.



ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26998192 26992300 FAX:86-758-86376605. E-mail: Fengbing Wang@wscl-cert.com Http://www.wscl-cert.com









Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question Please Contact with WSCT www.wsct-cert.com

#### 7.7.5 LIMIT

	ADMINISTRATION	Account to the second of the s
	Spurious Radiate	ed Emission & Band Edge Emissions Measurement:
į	Limit:	For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35
		GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
		For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the
١		5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
		For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency
		range from the band edge to 10 MHz above or below the band edge shall not exceed an
		e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge,
	Y	emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.
		In any 100 KHz bandwidth outside the operating frequency band, the radio frequency power
	17274	that is produced by modulation products of the spreading sequence, the information
	/	sequence and the carrier frequency shall be either at least 20 dB below that in any 100 KHz
1		bandwidth within the band that contains the highest level of the desired power or shall not
		exceed the general levels specified in section 15.209(a), which lesser attenuation.

Note:

Applies to harmonics/spurious emissions that fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

the general radiated emission limits specified in section 15.209(a)

All other emissions inside restricted bands specified in section 15.205(a) shall not exceed

47 CFR § 15.237(c): The emission limits as specified above are based on measurement instrument employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

#### 7.7.6 **TEST RESULT**

**Band Edge and Fundamental Emissions** 

Product:	EUT-Sample	Test Mode:	20MHzIEEE 802.11a/n/ac				
Test Item:	Band Edge and Fundamental Emissions	Temperature:	25 °C				
Test Voltage:	DC 11.61V	Humidity:	56%RH				
Test Result:	PASS		AVS 01 AVS 10				







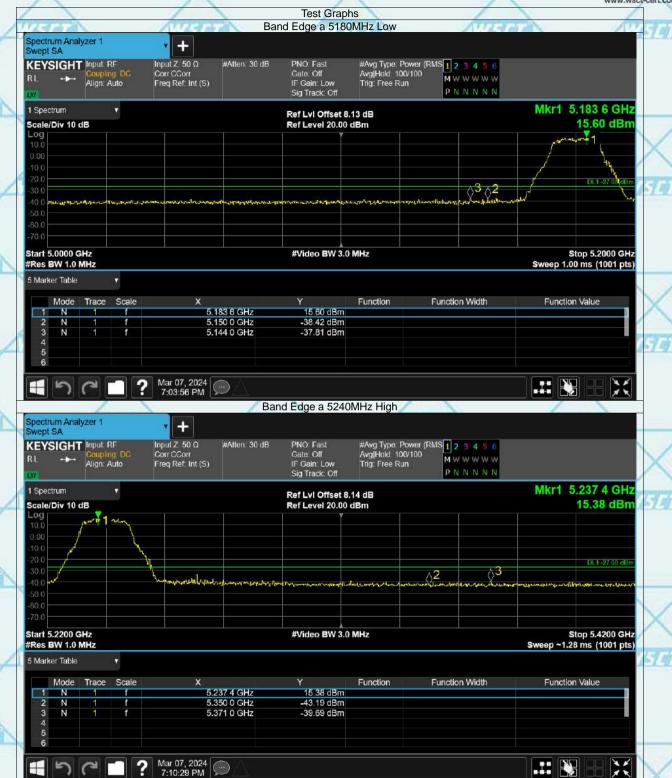




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT





ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao an District, Shenzhen, Guangdong, China TEL:86:755-26996192 26992306 FAX:86:755-86376605. E-mail: Fengbing.Wang@wsct-cert.com http://www.wsct-cert.com





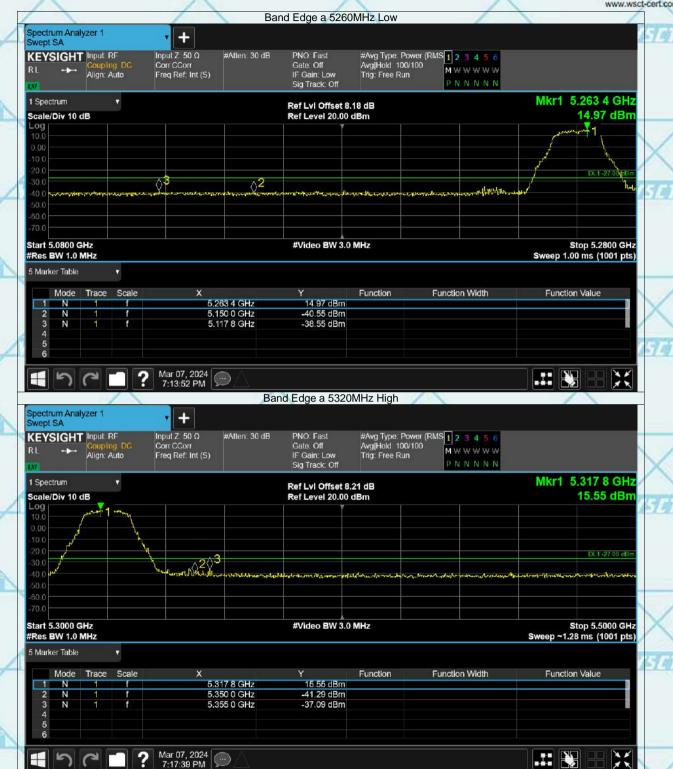




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT









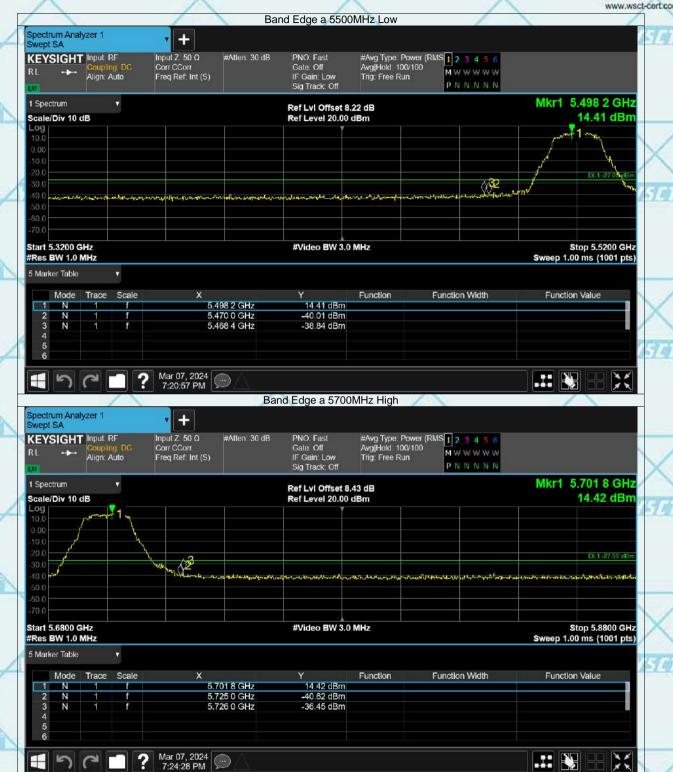




Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT





ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao an District, Shenzhen, Guangdong, China TEL:86/755-26988192 26992306 FAX:86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com http://www.wsct-cert.com









Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT













Report No.: WSCT-A2LA-R&E240300011A-Wi-Fi2

Certificate #5768.01

For Question,
Please Contact with WSCT

