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TEST REPORT

FCC ID: 2ARPO-GT202

Product: voip wireless router

Model No.: GT202-WiFi

Additional Model No.: GT202N

Trade Mark: SENKEFEI

Report No.: FCC18100009A-15B

Issued Date: Oct. 24, 2018

Issued for:

Shenzhen zhongfanda Technology Co., Ltd
B1503, No. 18, Rongtaiyuan, Wanfeng Community, Xinqiao Street, Bao'an District,
Shenzhen

Issued By:

World Standardization Certification & Testing Group Co., Ltd.

Building A-B, Baoshi Science & Technology Park, Baoshi Road callo

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3

Table of Contents

4 OFNEDAL INFORMATION	\bigvee	\
1. GENERAL INFORMATION		

2. GENERAL	DESC	RIPTION OF E	UT	1	VSCT		4	
2.1. TES	ST DES	CRIPTION			V L	$\overline{}$	5	7 4

3. SUMMARY OF TEST RESULTS	X	8

4. 1	MEASUREMENT INS	TRUMENTS	- American		9
				I d will min	 •

5. EMC EMISSION TEST	10
5.1 CONDUCTED EMISSION MEASUREMENT	10
5.2 RADIATED EMISSION MEASUREMENT	14

6 FIII IFST DHOTO		6 FUT TEST PHOTO	WSET	WSET	WSET
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7. PHOTOGRAPHS OF EUT			22
1. PHOTOGRAPHS OF EUT	- X	X	ZZ

	WSET	WSET	W5ET	W5CT	WSET
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1. GENERAL INFORMATION

	Product:	voip wireless router				
	Model No.:	GT202-WiFi				
	Additional Model:	GT202N				
A	Applicant:	shenzhen zhongfanda Technology Co., Ltd				
	Address:	B1503, No. 18, Rongtaiyuan, Wanfeng Community, Xinqiao Street, Bao'an District, Shenzhen				
	Manufacturer:	shenzhen zhongfanda Technology Co., Ltd				
_	Address:	B1503, No. 18, Rongtaiyuan, Wanfeng Community, Xinqiao Street, Bao'an District, Shenzhen				
	Data of receipt	Oct. 10, 2018				
	Date of Test:	Oct. 11, 2018 to Oct. 24, 2018				
	Applicable Standards:	FCC Rules Part15 Subpart B.				
-	The above equipment has been tested by World Standardingtion Continued at Table One On 111					

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Pu Shixi (Pu Shixi)

Date: Oct. 24, 2018

Check By:

(Qin Shuiguan)

Approved By:

(Wang Fengbing)

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Page 3 of 30







2. GENERAL DESCRIPTION OF EUT

<u> </u>	GENERAL I	DESCRIPTION OF EUT NVLAP LAB CODE 600142-0 For Question,	
	Equipment Type:	voip wireless router www.wsct-cert.do	_
_	Test Model:	GT202-WiFi	5/
	Additional Model:	GT202N	
	Trade Mark	SENKEFEI WSET WSET	
	Applicant:	shenzhen zhongfanda Technology Co., Ltd	
	Address:	B1503, No. 18, Rongtaiyuan, Wanfeng Community, Xinqiao Street, Bao'an District, Shenzhen	×
_	Manufacturer:	shenzhen zhongfanda Technology Co., Ltd W5.27	5/
	Address:	B1503, No. 18, Rongtaiyuan, Wanfeng Community, Xinqiao Street, Bao'an District, Shenzhen	
	Hardware version:	NA WSET WSET	
	Software version:	N/A	×
	Extreme Temp. Tolerance:	-10℃ to +55℃	E
_	Adapter Information:	Adapter: BI24-120200-AdU Input: AC 100-240V 50/60Hz 0.3A Output: DC 12V1A	7
	Deviation	None WSCT WSCT	
	Condition of Test Sample	Normal	_

WSET	WSET	WSET	WSET	WSET	
	WSCT	WSET	WSET	WSET	WSET
X	X	X	X	\times	

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2.1. TEST DESCRIPTION 2.1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of

approxima	ately 95 %	60	X	X
WSET	No.	Item WSCT	Uncertainty	WSET
	1	Conducted Emission Test	±3.2dB	
X	2	RF power, conducted	±0.16dB	X
WSE	3	Spurious emissions, conducted	±0.21dB	WSET
	4	All emissions, radiated(<1G)	±4.7dB	
X	5	All emissions, radiated(>1G)	±4.7dB	X
WSET	6	Temperature	±0.5°C	WSET
11361	7	Humidity	±2%	
X		\times	X	X
W5E		WSET WSE	WSET	MEET
100		NA INCIDENTAL PROPERTY OF THE		
X		X	X	X
WSIT	- Kur	WSCT WSCT	WSET	WSET
X		\times	(X	X
Augus		hard hard	August 1	Augus
WSE		WSET* WSE	WSET [®]	WSL
\times		X	X	\times
	/			
WSET	11/	SET WSET	WSET	WSET
\times		\times		\times
W5E		W5ET W5L	WSET [®]	WSET
\sim		\times	\sim	\times
WSET	W	SET° WSET°	WSET	WSET
\sim				
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Report No.: FCC18100009A -15B

Page 5 of 30

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2.1.2 DESCRIPTION OF TEST MODES

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To investigate the maximum EMI emission characteristics generates from EUT, the test system consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

X		ornigaration mode (c) monitoriou abovo mae ovaluateu respe	XVIII.
A	Pretest Mode	Description	
WSG	Mode 1	Exchange data with computer	
\searrow			
		For Conducted Emission	
WSL	Final Test Mode	Test with Keyboard and Mouse	WSET
	Mode 1	Exchange data with computer	
W5CT		For Radiated Emission	CT°
	Final Test Mode	Test with Keyboard and Mouse	
	Mode 1	Exchange data with computer	
W5L	W.	SET WSET WSET	W5ET*
			/
			\wedge
WSET	WSET	WSET WSET W	SET
X			
W5.	W.	SET WSET WSET	WSET
X	X	\times	X
WSET	WSET	WSET WSET W	SCT
X		\times \times \times	X
W5	TT W	SET WSET WSET	WSIT
X	X	\times	X
WSCT	WSET	WSET WSET W	SET
\rightarrow		\times \times \times	X
4		CET MICET MICET	Miller
WSC7 World Standard Long Certification	4 %	SET® WSET® WSET®	WSET
West of the second	Stime	X X	X
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World Standardization Certif	世标检测认证股份 All TEation & Testing Group Co.,Ltd.	DD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzi Li:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.	com Http:www.wsct-cert.com

Report No.: FCC18100009A -15B

Page 6 of 30

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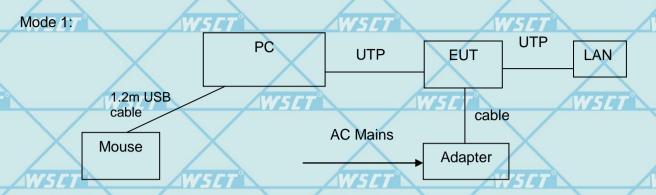






2.1.3 CONFIGURATION OF SYSTEM UNDER TEST

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(EUT: voip wireless router)

I/O Port of EUT						
I/O Port Type	Q'TY	Cable	Tested with			
Power WSET	1 W	cable, unshielded	1			
UTP	2	unshielded	2			

2.1.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	PC	lenovo	TP00067A	1	1
1	3	Mouse	DELL	MS111-1		W JL I

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



Report No.: FCC18100009A -15B

Page 7 of 30

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3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

/		FCC Part15 , Subpart B		
	Standard Section	Test Item	Judgment	Remark
	15.107	CONDUCTED EMISSION	PASS	
	15.109	RADIATED EMISSION	PASS	

NOTE:

WSET	(1)" N/A" denotes te	st is not applicable in th	nis test report.	W	747
	W5ET	WSET	WSET	WSET	WSCT
WSET	WSET	WSET	WSE		
	W5CT*	WSCT	WSET	WSCT	WSET
WSET	WSLT	WSET	WSE	W.	SET.
	WSET	WSET	WSLT	WSET	WSET
WSET	WSLT	WSET	WSC	W-	SET
dif	ication	WSET	WSET	WSET	WSET
W. W	SCT CO UT THE TENT OF THE TEN	WSET	W5L ience & technology Park, Baoshi		567°

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Page 8 of 30

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4 MEASUREMENT INSTRUMENTS

•	T. IVILAGUILLIVILIV	A L HAOLIKONIE	1413			www.wsct-cert.com	
7	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	6
	ESCI Test Receiver	R&S	ESCI	100005	08/19/2018	08/18/2019	
	LISN	AFJ	LS16	16010222119	08/19/2018	08/18/2019	
0	LISN(EUT) 5 CT	Mestec W5/	AN3016	04/10040	08/19/2018	08/18/2019	
	pre-amplifier	CDSI	PAP-1G18-38		08/19/2018	08/18/2019	
	System Controller	СТ	SC100	-	08/19/2018	08/18/2019	
	Bi-log Antenna	Chase	CBL6111C	2576	08/19/2018	08/18/2019	
7	Spectrum analyzer	R&S	FSU26	200409	08/19/2018	08/18/2019	
	Horn Antenna	SCHWARZBECK	9120D	1141	08/19/2018	08/18/2019	
0	Bi-log Antenna	SCHWAREBECK	VULB9163	9163/340	08/19/2018	08/18/2019	
	Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019	
	9*6*6 Anechoic	Χ			08/21/2018	08/20/2019	
		$\overline{}$	HP8447E 	2945A02715 	\/		

	1 TO Ampliner		111 0447 E	2545/102715	10/10/2010	10/12/2013	
	9*6*6 Anechoic	Χ	X		08/21/2018	08/20/2019	
	WSET	WSET	WSET	V	ISET	WSET	
WSET	WSET	W.5	47	WSET	WS	TT .	
	WSET	WSET	WSET		/SET	WSET	
WSET	WSET	WS	7	WSLT	W	ET	
	WSET	WSET	WSET		75ET	WSET	0
WSET	WSET	WS		WSLT		ET	
	ottification .	WSET	WSET	И	VSET*	Wistri	
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Page 9 of 30

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5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCY (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
W5/5.0-30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

	Receiver Parameters	Setting
1	Attenuation	10 dB
Ī	Start Frequency	0.15 MHz
	Stop Frequency	30 MHz
-	IF Bandwidth	WSC 9 kHz

WSET	WSET	WSET	WSET	WSET
WSET WSET	WSET	WSET	WSCI	
W5ET*	WSET	WSET	WSLT	WSET
WSET	WSET	WSET	WSET	
	WSET	WSET	WSET	WSLT
Certification & Regulation of the WSET			X	

Report No.: FCC18100009A -15B

Page 10 of 30

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com Http://www.wsct-cert.e







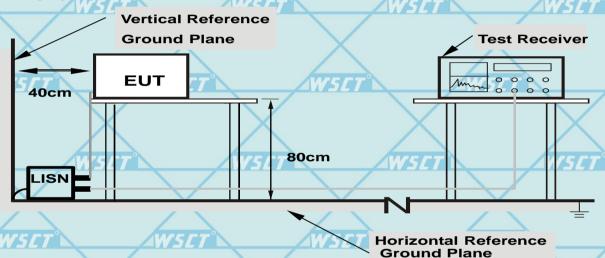
5.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being confected near with WSCT to the power mains through a line impedance stabilization network (LISN). All other support west-cert.com equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.









5.1.6 TEST RESULTS

						or Question,
	Temperature	26 ℃	X	Relative Humidity	54%	 Contact with WSCT v.wsct-cert.com
	Pressure	1010hPa	gr (Phase	L/N	Autorio
7	Test Mode	Mode 1) A		NB G	_AWSUI

L: 80.0 dBuV Limit: AVG: 0.0 0.150 (MHz) 30.000 Reading Correct Measure-Limit No. Mk. Freq. Over Level Factor ment MHz dBu∀ dB dBu∀ dBu√ dB Detector 1 0.1580 19.94 10.44 30.38 55.56 -25.18 AVG 0.1590 35.34 45.78 65.51 QP 2 10.44 -19.73 3 0.4180 29.07 10.41 39.48 57.49 -18.01 QP 4 0.4300 21.22 10.41 31.63 47.25 -15.62 AVG 5 7.66 10.38 46.00 -27.96 AVG 0.6820 18.04 6 0.7460 17.78 10.37 28.15 56.00 -27.85 QP QΡ 7 1.5300 25.11 10.31 35.42 56.00 -20.58 8 1.5900 13.46 10.31 23.77 46.00 -22.23 AVG 10.25 AVG 9 3.8060 8.21 18.46 46.00 -27.54 10.25 QP 10 3.9620 18.92 29.17 56.00 -26.83



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50.00

-27.61

60.00 -28.92

AVG

QΡ

22.39

31.08

11

12

7.4100

7.6980

12.18

20.87

10.21

10.21







W5E

IS GT AWS G

×	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
7			MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector
Ī	1		0.1580	37.15	10.44	47.59	65.56	-17.97	QP
Ī	2		0.1580	20.31	10.44	30.75	55.56	-24.81	AVG
-	3		0.4300	37.31	10.41	47.72	57.25	-9.53	QP
×	4	*	0.4300	29.62	10.41	40.03	47.25	-7.22	AVG
	5		0.5660	11.76	10.39	22.15	46.00	-23.85	AVG
7	6		0.8340	18.20	10.36	28.56	56.00	-27.44	QP
Ī	7		1.5140	11.15	10.31	21.46	46.00	-24.54	AVG
_	8		1.5380	24.82	10.31	35.13	56.00	-20.87	QP
Ī	9		3.2940	18.65	10.26	28.91	56.00	-27.09	QP
×	10		3.3180	9.54	10.26	19.80	46.00	-26.20	AVG
5/	11		5.4860	9.72	10.23	19.95	50.00	-30.05	AVG
	12		5.5660	19.44	10.23	29.67	60.00	-30.33	QP

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5.2 RADIATED EMISSION MEASUREMENT

5.2.1 Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0 ws.	30 W5/T	30 /
30~88	100	3
88~216	150	3
216~960	200	WELT 3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	Limit (dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	<i>5LT</i> W-1000 MHz W5 <i>LT</i>
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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5.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1942 ontact with WSCT For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested W5222 and performed pretest to three orthogonal axis. The worst case emissions were reported

S.2.3 DEVIATION FROM TEST STANDARD

No deviation

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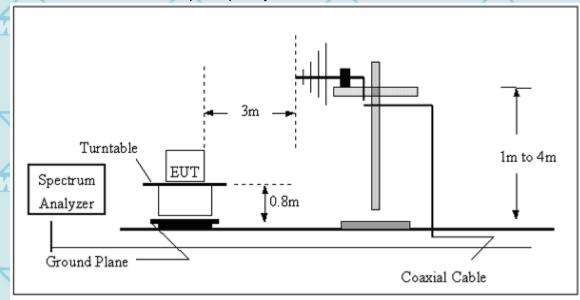




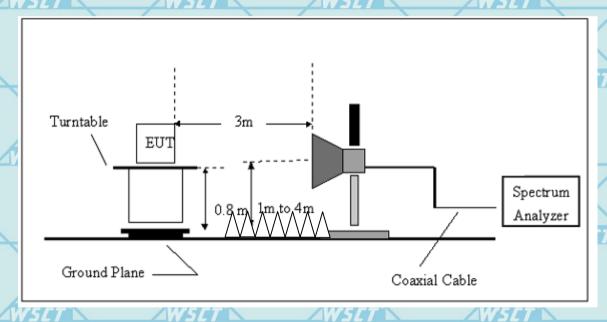
5.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz

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(B) Radiated Emission Test-Up Frequency Above 1GHz



5.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



Report No.: FCC18100009A -15B Page 16 of 30

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5.2.5.1 TEST RESULTS (Between 30M - 1000 MHz)

					For Question,	
	Temperature	20 ℃	Relative Humidity	48%	ase Contact with W.s. www.wsct-cert.com	
	Pressure	1010 hPa	Polarization :	Horizontal/Ve	ertical	
4	Test Mode	Mode 1				LT





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	144
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	_	31.7313	27.12	4.13	31.25	40.00	-8.75	QP
2	4	64.6594	38.62	-6.58	32.04	40.00	-7.96	QP
3	*	143.3261	45.07	-4.52	40.55	43.50	-2.95	QP
4	!	329.0390	44.47	-2.03	42.44	46.00	-3.56	QP
1 5	4	483.9094	39.04	-0.62	38.42	46.00	-7.58	QP
6		881.4067	34.56	5.32	39.88	46.00	-6.12	QP

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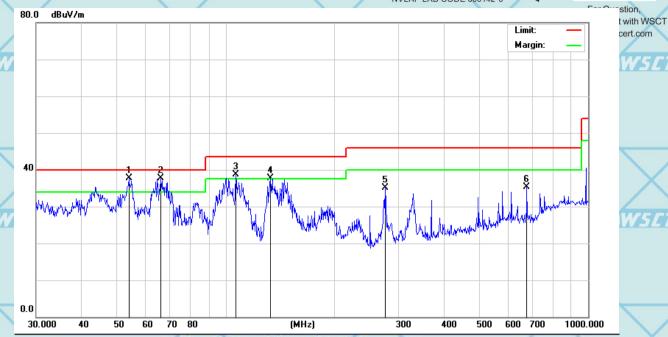
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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	L	54.0711	43.16	-5.51	37.65	40.00	-2.35	QP
2	*	66.2662	44.42	-6.71	37.71	40.00	-2.29	QP
3	1	106.7587	41.18	-2.50	38.68	43.50	-4.82	QP
4	J	133.1511	41.56	-3.79	37.77	43.50	-5.73	QP
14.5		276.1235	38.57	-3.39	35.18	46.00	-10.82	QP
6		677.5798	33.31	2.01	35.32	46.00	-10.68	QP

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5.2.5.2 TEST RESULTS (1GHz to 25GHz)

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Temperature	20 °C//5/-	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1

Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)		WELL	
	H/V	PK	AV	PK	AV	PK	AV
1652.17	V	60.04	41.39	74	54	-13.96	-12.61
2842.69	V	58.75	39.91	74	54	-15.25	-14.09
1661.63	H	59.99	39.71	74	54	-14.01	-14.29
2839.48	H/X	58.72	39.72	754 74	54	-15.28	-14.28

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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CONDUCTED EMISSION TEST



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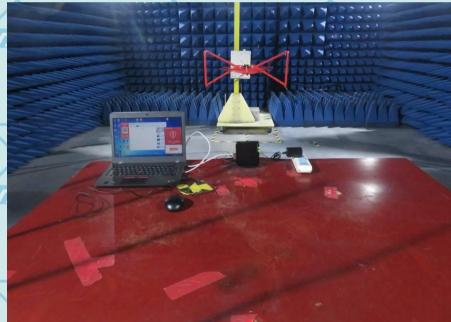
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RADIATED EMISSION TEST

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7. PHOTOGRAPHS OF EUT

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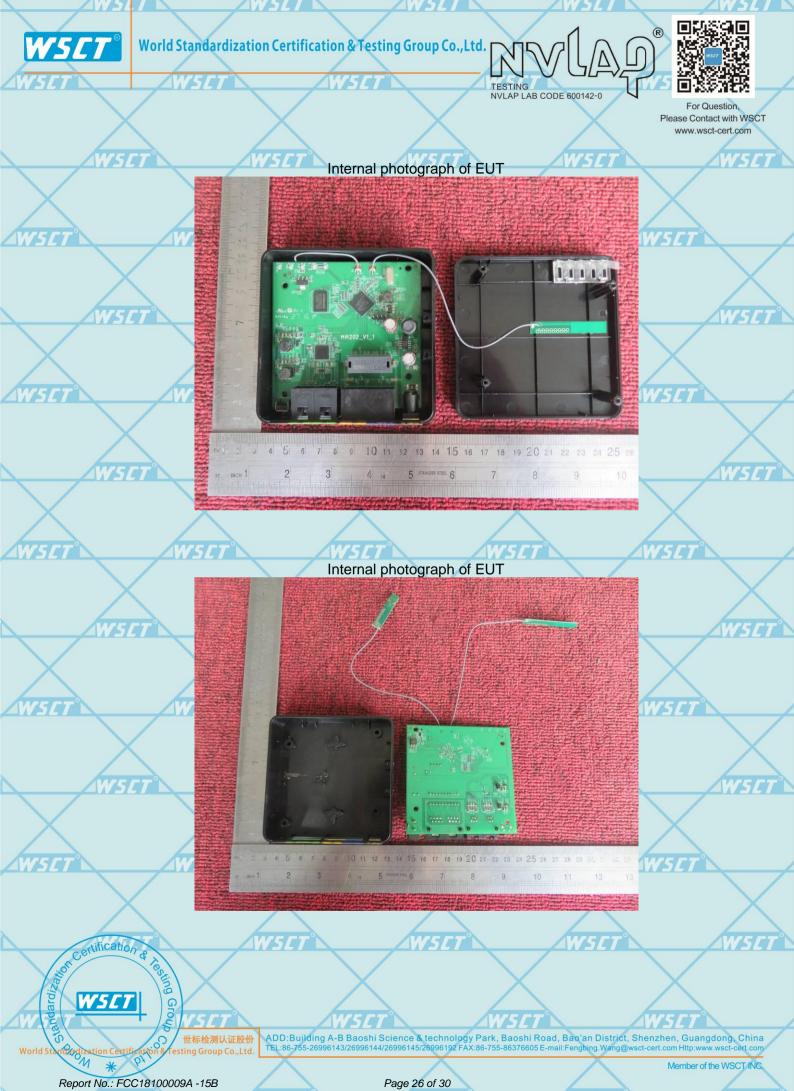
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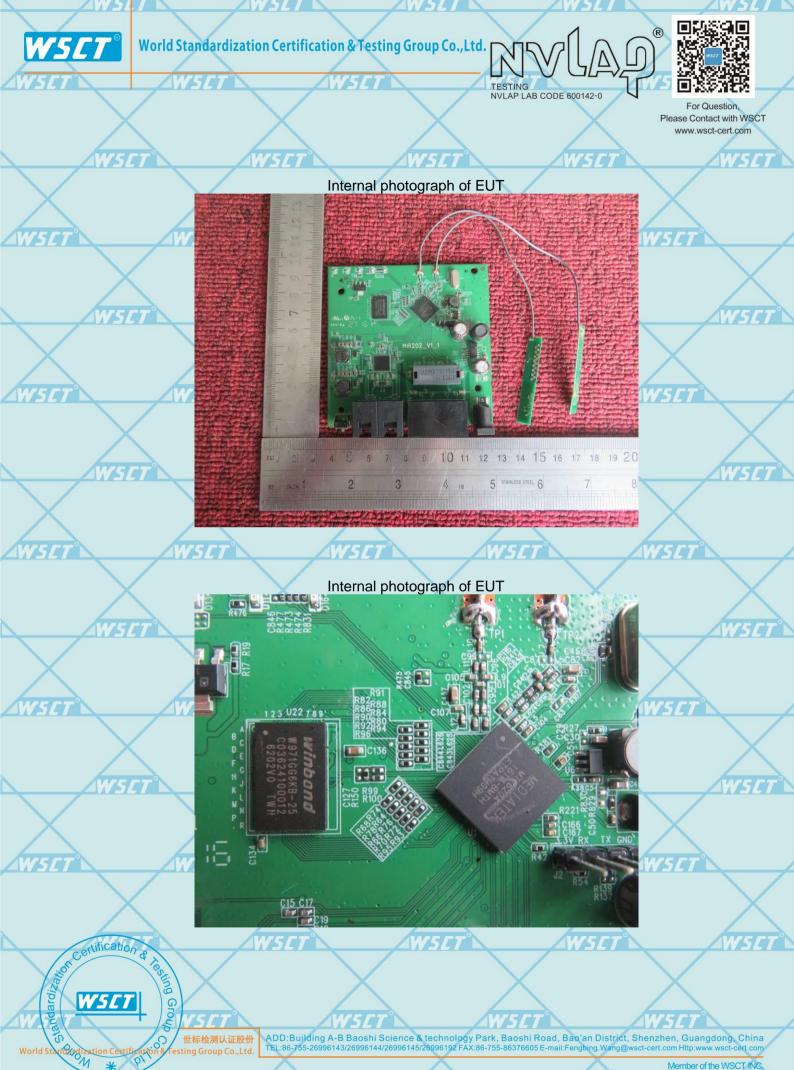
Internal photograph of EUT

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Internal photograph of EUT

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Internal photograph of EUT

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Internal photograph of EUT



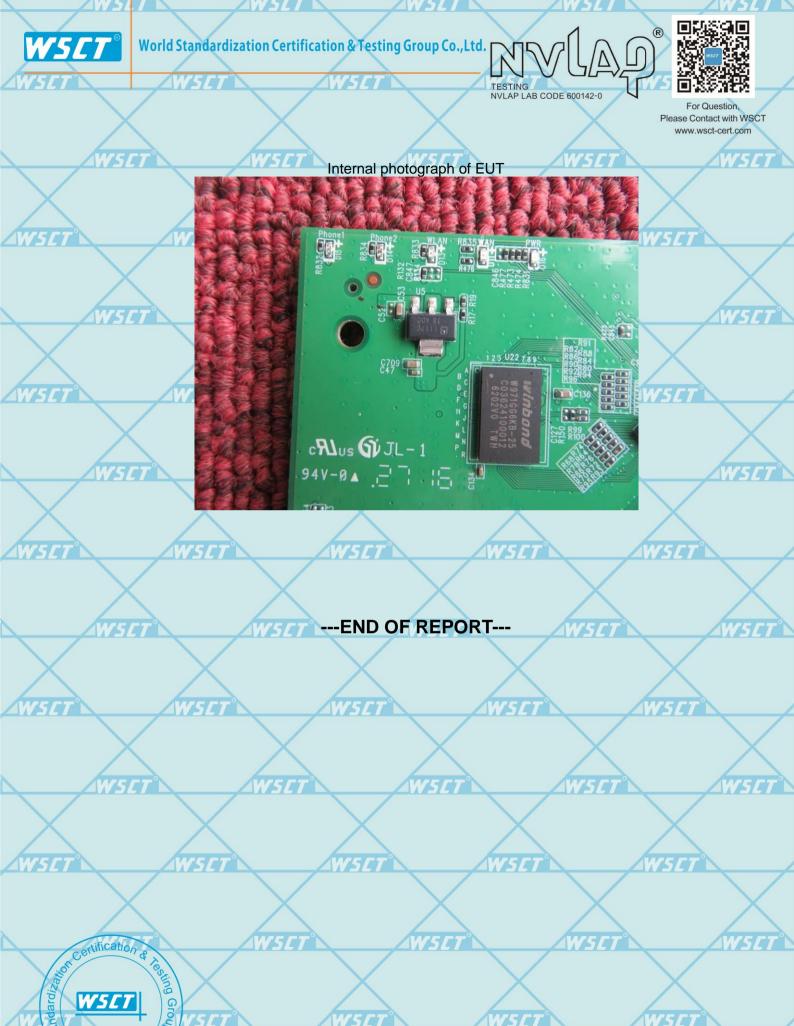
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