

Report No.: SEWM2302000040RG06

Rev.: 01

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TEST REPORT

Application No.: SEWM2302000040RG
Applicant: Ningbo Sunvot Technology Co., Ltd
Address of Applicant: Building 3, NO 55 Longtan Shan Road, Beilun Daqi, Ningbo, Zhejiang
Manufacturer: Ningbo Sunvot Technology Co., Ltd
Address of Manufacturer: Building 3, NO 55 Longtan Shan Road, Beilun Daqi, Ningbo, Zhejiang
EUT Description: 5G CPE
Model No.: GC600/GC600C/GC600T/GC600A/GC600B
Trade Mark: Sunvot
FCC ID: 2AZGN-GC600-202303
Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06
Date of Receipt: 2023/02/20
Date of Issue: 2023/03/10

Test Result:**PASS***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun

Panta Sun
Wireless Laboratory Manager



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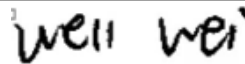
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/03/10		Original

Prepared By	
	(Nick Hu) / Test Engineer
Checked By	
	(Well Wei) / Reviewer



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2 General Information

2.1 Client Information

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Address of Applicant:	Building 3,NO 55 Longtan Shan Road, Beilun Daqi,Ningbo,Zhejiang
Manufacturer:	Ningbo Sunvot Technology Co., Ltd
Address of Manufacturer:	Building 3,NO 55 Longtan Shan Road, Beilun Daqi,Ningbo,Zhejiang

2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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2.3 General Description of EUT

EUT Description:	5G CPE		
Model No.:	GC600/GC600C/GC600T/GC600A/GC600B		
Trade Mark:	Sunvot		
Hardware Version:	GC600-Main-V1.1		
Software Version:	600.102.1.507		
Antenna Type:	☐ External, ☒ Integrated		
Antenna Gain:	WCDMA Band II:	1.94dBi (Ant0)	WCDMA Band IV: 0.91dBi (Ant0)
	WCDMA Band V:	-1.22dBi (Ant0)	
	LTE Band 2:	1.94dBi (Ant0)	LTE Band 4: 0.91dBi (Ant0)
	LTE Band 5:	-1.22dBi (Ant0)	LTE Band 7: 3.43dBi (Ant0)
	LTE Band 66:	0.91dBi (Ant0)	
	LTE CA_2C:	1.94dBi (Ant0)	LTE CA_7C: 3.43dBi (Ant0)
	NR Band n7:	1.8dBi (Ant5)	NR Band n77: 2.0dBi (Ant3) 2.0dBi (Ant5)
	NR Band n78:	2.0dBi (Ant3) 2.0dBi (Ant5)	
	2.4G WIFI:	3.89dBi (Ant0) 2.84dBi (Ant1)	
	5150MHz to 5250MHz:	4.87dBi (Ant0) 5.06dBi (Ant1)	5250MHz to 5350MHz: 4.76dBi (Ant0) 4.28dBi (Ant1)
	5470MHz to 5725MHz:	3.22dBi (Ant0) 4.85dBi (Ant1)	5725MHz to 5850MHz: 2.73dBi (Ant0) 4.54dBi (Ant1)
	LTE CA: LTE CA_2C; LTE CA_7C; LTE CA_2A-4A; LTE CA_2A-7A; LTE CA_4A-5A; LTE CA_4A-7A; LTE CA_5A-7A; LTE CA_5A-66A; LTE CA_7A-7A; LTE CA_66A-66A; ENDC: DC_2A_n7A; DC_66A_n7A; DC_2A_n78A; DC_4A_n78A; DC_7A_n78A; DC_66A_n78A;		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducted Average Output Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
WCDMA Band II	1852.4	1.94	NA	25.00	26.94	33.01	0.0983	1.0000	8.01	12.01	8.01	Pass
WCDMA Band IV	1712.4	0.91	NA	25.00	25.91	30.00	0.0776	1.0000	5.00	12.01	5.00	Pass
WCDMA Band V	826.4	-1.22	NA	25.00	21.63	38.45	0.0475	0.5509	15.60	9.42	9.42	Pass
LTE Band 2/LTE CA_2C	1850.7	1.94	NA	25.00	26.94	33.00	0.0983	1.0000	8.00	12.01	8.00	Pass
LTE Band 4	1710.7	0.91	NA	25.00	25.91	30.00	0.0776	1.0000	5.00	12.01	5.00	Pass
LTE Band 5	824.7	-1.22	NA	25.00	21.63	38.45	0.0475	0.5498	15.60	9.41	9.41	Pass
LTE Band 7/LTE CA_7C	2502.5	3.43	NA	25.00	28.43	33.00	0.1386	1.0000	8.00	12.01	8.00	Pass
LTE Band 66	1710.7	0.91	NA	25.00	25.91	30.00	0.0776	1.0000	5.00	12.01	5.00	Pass
NR Band n7	2502.5	1.80	NA	25.00	26.80	33.00	0.0952	1.0000	8.00	12.01	8.00	Pass
NR Band n77 (3450-3550)	3455.0	2.00	NA	25.00	27.00	30.00	0.0997	1.0000	5.00	12.01	5.00	Pass
NR Band n77 (3450-3550)(HPUE)	3455.0	2.00	NA	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3450-3550)(MIMO)	3455.0	2.00	2.00	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3700-3980)	3707.5	2.00	NA	25.00	27.00	30.00	0.0997	1.0000	5.00	12.01	5.00	Pass
NR Band n77 (3700-3980)(HPUE)	3707.5	2.00	NA	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3700-3980)(MIMO)	3707.5	2.00	2.00	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3450-3550)	3455.0	2.00	NA	25.00	27.00	30.00	0.0997	1.0000	5.00	12.01	5.00	Pass
NR Band n78 (3450-3550)(HPUE)	3455.0	2.00	NA	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3450-3550)(MIMO)	3455.0	2.00	2.00	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3700-3800)	3705.0	2.00	NA	25.00	27.00	30.00	0.0997	1.0000	5.00	12.01	5.00	Pass
NR Band n78 (3700-3800)(HPUE)	3705.0	2.00	NA	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3700-3800)(MIMO)	3705.0	2.00	2.00	28.00	30.00	30.00	0.1989	1.0000	2.00	9.01	2.00	Pass
2.4G WLAN Ant0	2412.0	3.89	NA	14.00	17.89	30.00	0.0122	1.0000	NA			Pass
2.4G WLAN Ant1	2412.0	2.84	NA	14.00	16.84	30.00	0.0096	1.0000				Pass
2.4G WLAN (MIMO)	2412.0	NA	6.39	18.00	24.39	30.00	0.0547	1.0000				Pass
5G WLAN Ant0	5180.0	4.87	NA	17.00	21.87	30.00	0.0306	1.0000				Pass
5G WLAN Ant1	5180.0	5.06	NA	17.00	22.06	30.00	0.0320	1.0000				Pass
5G WLAN (MIMO)	5180.0	NA	7.98	20.00	27.98	30.00	0.1248	1.0000				Pass



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Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

$$\sum_{i=1}^n \frac{S_{E_i}(\text{duty factor})}{MPE_{E_i}} < 1$$

NOTE The corresponding MEs must be expressed in terms of power density in the above summation

Therefore, the worst-case (DC_7A_n78A) situation is 0.1386+0.1989=0.3375, which is less than “1”, this confirmed that the device comply with MPE limit.



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3.1.4 Exposure calculations for multiple sources

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE in accordance with the provisions of Table(A) and Table(B). To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity.

In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	WWAN + WLAN 2.4GHz Ant0+ WLAN 5GHz Ant0
2	WWAN + WLAN 2.4GHz Ant0+ WLAN 5GHz Ant1
3	WWAN + WLAN 2.4GHz Ant0 + WLAN 5GHz MIMO
4	WWAN + WLAN 2.4GHz Ant1+ WLAN 5GHz Ant0
5	WWAN + WLAN 2.4GHz Ant1+ WLAN 5GHz Ant1
6	WWAN + WLAN 2.4GHz Ant1+ WLAN 5GHz MIMO
7	WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz Ant0
8	WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz Ant1
9	WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz MIMO

No.	Mode	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	Result Ratio	Total Ratio	Limit	Result
9	LTE Band 5	0.0475	0.5498	0.0864	0.2659	1.0000	Pass
	WLAN 2.4GHz MIMO	0.0547	1.0000	0.0547			
	WLAN 5GHz MIMO	0.1248	1.0000	0.1248			

---End of Report---



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com