SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

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Human Exposure Report

Application No.:	GZEM1804002108LM
Applicant:	Ninestar Coporation
Address of Applicant:	Building 1, No.83 Guangwan Street, Xiangzhou, Zhuhai, Guangdong, P.R. China
Manufacturer / Factory:	Ninestar Coporation
Address of Manufacturer / Factory:	Building 1, No.83 Guangwan Street, Xiangzhou, Zhuhai, Guangdong, P.R. China
Equipment Under Test (EUT):	
EUT Name:	Ninestar wireless charging base
Model No.:	NSC019
FCC ID:	2APPC-019-A1
Trade mark:	G&G
Standards:	47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt:	2018-04-25
Date of Test:	2018-04-28 to 2018-05-03
Date of Issue:	2018-07-11
Test Result :	**Pass***

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

Kobe Jian
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 General Information

2.1 Details of E.U.T.

Power supply:	DC 5V/2A, DC 9V/2A powered by AC/DC adaptor as below:
	Output: DC 15W MAX
	Model: DBS15QC
	Input: AC 100-240V, 50/60Hz, 500mA, Max 18W
	Output: DC 5V, 3A or 9V, 2A or 12V, 1.5A;
Cable:	Type C DC input/output cable (unshielded, 1m)
Operation frequency:	127 kHz
Antenna type:	Loop antenna
Modulation type:	FSK Digital Modulation
Remark:	Tests were conducted in all the load modes and the worst case (15W) is reported only.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SANSUNG	SM-9508	R28K110W9JV

2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663
Tel: +86 20 82155555 Fax: +86 20 82075059
No tests were sub-contracted.

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2.4 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

  SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by th National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

  The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any age of the Federal Government.

- **ACMA**

  SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

  Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier o EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

  SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

  SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance lett from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Numbe 486818, Jul 13, 2017.

- **Industry Canada (Registration No.: 4620B-1)**

  The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Lt has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

  The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584，G-449 and T-1179 respectively.

- **CBTL (Lab Code: TL129)**

  SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

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2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

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3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	10m Semi- Anechoic Chamber	ETS	N/A	N/A	2019-06-18
2	Electric Field Meter	narda	EHP-50F	EMC2143	2021-02-06

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4 Test Results

4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15cm & 20cm

Limit:

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).

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

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4.1.2 Measurement Data

Output Voltage=DC 5V; The max output power =15W;Calculation of resistor value=5Ω

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
127kHz	15	Side 1	4.34	307
		Side 2	4.52	307
		Side 3	4.32	307
		Side 4	4.55	307
	20	Top	3.67	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
127kHz	15	Side 1	0.0512	0.815
		Side 2	0.0567	0.815
		Side 3	0.0589	0.815
		Side 4	0.0523	0.815
	20	Top	0.1366	0.815

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Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
127kHz	15	Side 1	4.23	4.32	4.29	307
		Side 2	4.34	5.21	4.47	307
		Side 3	4.31	5.22	5.10	307
		Side 4	4.77	4.90	4.42	307
	20	Top	3.45	4.74	3.98	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
127kHz	15	Side 1	0.0833	0.0921	0.0865	0.815
		Side 2	0.0869	0.0895	0.0832	0.815
		Side 3	0.0833	0.0933	0.0976	0.815
		Side 4	0.0879	0.0905	0.0908	0.815
	20	Top	0.1835	0.2046	0.2087	0.815

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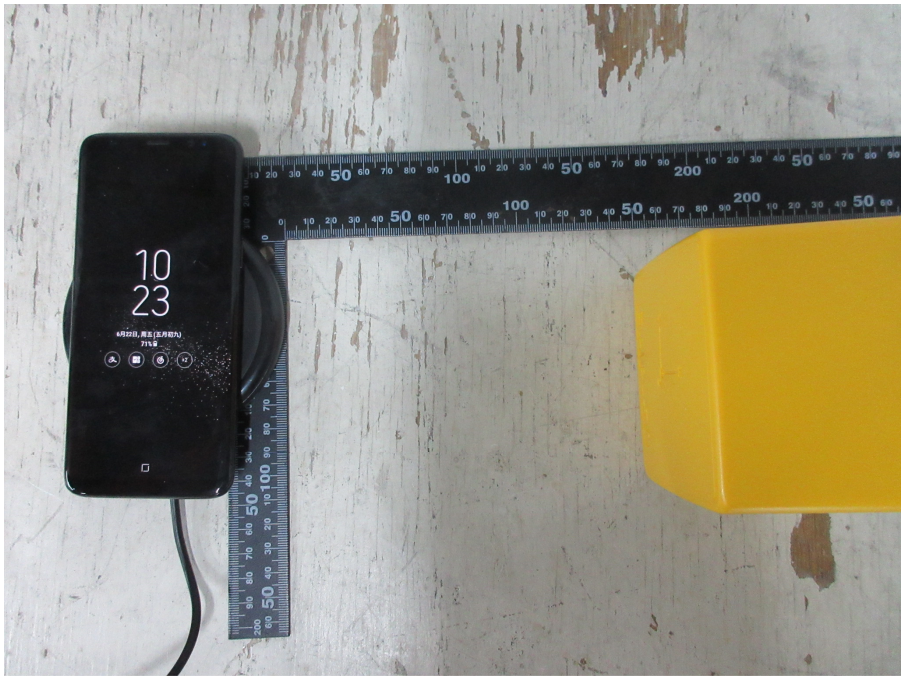
5 Photographs

5.1 RF Exposure test Test Setup



- End of the Report -

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