



BUREAU
VERITAS

Test Report No.: FS200720N071

RF EXPOSURE REPORT

Applicant	Digital Gallery Global Limited
Address	Flat 20, 11/F, BLK A, Hoi Luen Industrial Centre, 55 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong

Manufacturer or Supplier	Nosanky Electronic Technology Co., Ltd.
Address	301 Blk A No. 12 Silianhuamao Industrial Zone Henggang Street Longgang District Shenzhen China
Product	Qi Wireless Charging Power Station Alarm Clock
Brand Name	SHARP
Model	SPC237A
Additional Models & Model Difference	SPC237, SPC237B, SPC237D, SPC237BL, SPC237AMZ, SPC237OP, See section 1
Date of tests	Jul. 20, 2020 ~ Aug. 05, 2020

47 CFR PART 1, Subpart I, Section 1.1310

KDB 680106 D01

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang
Senior Project Engineer / EMC Department

Approved by Glyn He
Assistant Manager / EMC Department

Date: Aug. 11, 2020

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Bureau Veritas Shenzhen Co., Ltd.
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS200720N071	Original release	Aug. 11, 2020

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1. CERTIFICATION

FCC ID:	P5FSPC237A
PRODUCT:	Qi Wireless Charging Power Station Alarm Clock
BRAND NAME:	SHARP
MODEL:	SPC237A
ADDITIONAL NO.:	SPC237, SPC237B, SPC237D, SPC237BL, SPC237AMZ, SPC237OP
APPLICANT:	Digital Gallery Global Limited
STANDARDS:	47 CFR PART 1, Subpart I, Section 1.1310 KDB 680106 D01

Additional models SPC237, SPC237B, SPC237D, SPC237BL, SPC237AMZ, SPC237OP are identical with the test model SPC237A except the model name and brand for trading purpose.



2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

Description	Manufacturer	Model No.	Serial No.
Mobile phone	Samsung	S8 (SM-G950FD)	R58J506G1JL

2.1 TEST LOCATION

All tests were performed at:

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942.
People's Republic of China.

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2.2 DEVIATION FROM STANDARDS

None

2.3 ABNORMALITIES FROM STANDARD CONDITIONS

None

3. EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Car.Due date.
1	3m Semi-Anechoic Chamber	ETS-LINDGRE N	7m*4m*3m	NSEMC003	2020-03-19
2	B-field Probe	Narda	Y2006	L-0017	2019-12-08
3	E-Field probe	Narda	NBM-520	2403/01B	2019-09-24

NOTE: 1. The test was performed in RS chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



4. TEST RESULTS

4.1 RF EXPOSURE TEST

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
 Measurement Distance: 15cm
 Test voltage: AC 120V/60Hz

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).

Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

4.1.1 EUT 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.



4.1.2 MEASUREMENT DATA

Output Voltage=DC 5V; The max output power =10W
Wireless radiation frequency: 127KHz ~ 255KHz

Electric Field Emissions

Test Position	Test Distance (cm)	Probe Measure Result (V/m)	50% Limit (V/m)	Limit (V/m)
Side 1	15	1.96	307	614
Side 2	15	2.14	307	614
Side 3	15	1.92	307	614
Side 4	15	2.06	307	614
Top	20	2.01	307	614
Bottom	15	2.06	307	614

Magnetic Field Emissions

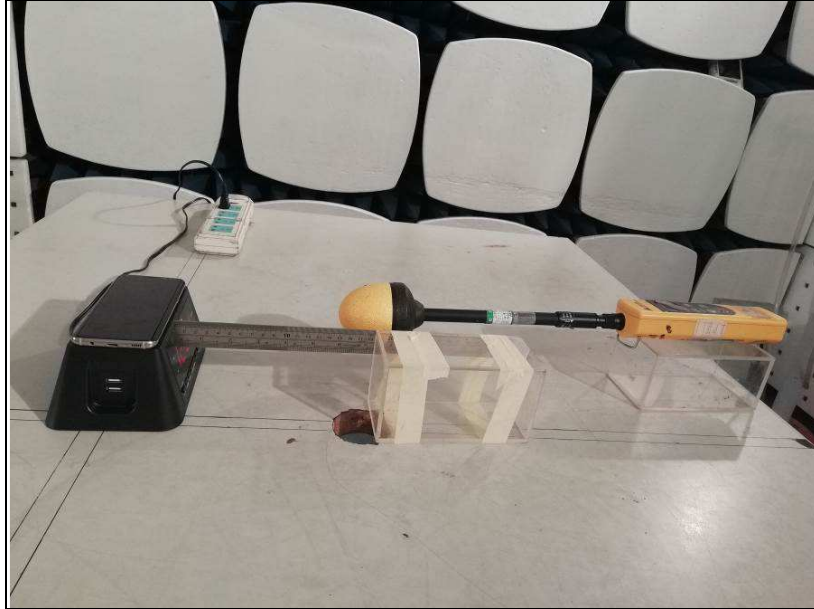
Test Position	Test Distance (cm)	Probe Measure Result (A/m)	50% Limit (A/m)	Limit (A/m)
Side 1	15	0.0059	0.815	1.63
Side 2	15	0.0063	0.815	1.63
Side 3	15	0.0069	0.815	1.63
Side 4	15	0.0066	0.815	1.63
Top	20	0.0065	0.815	1.63
Bottom	15	0.0062	0.815	1.63

Note: All modes have been tested and we only record the worst test result in full load mode.

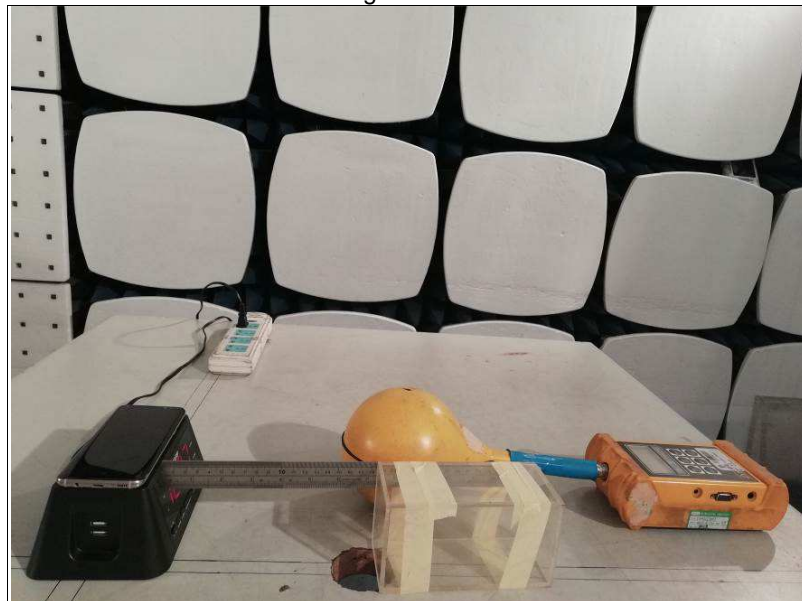


PHOTOGRAPHS OF THE TEST CONFIGURATION

Electric Field



Magnetic Field



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