

Human Exposure Report

Application No.: SZCR2106021515AT
Applicant: Hamedata Technology Co., Limited
Address of Applicant: 1st Zone, 3F, Plant#1, Huahan Industrial Park, No.16, Jinniu West Rd., Pingshan New District, Shenzhen, 518118 China
Manufacturer: Hamedata Technology Co., Limited
Address of Manufacturer: 3F, Building 1, Huahan Industrial Park, No 16, Jinniu West Rd., Pingshan New District., Shenzhen
Factory: 1. Hamedata Technology Co., Limited
 2. Hunan Hametech Technology co., Limited
Address of Factory: 1. 3F, Building 1, Huahan Industrial Park, No 16, Jinniu West Rd., Pingshan New District., Shenzhen
 2. 1~5 Building, Innovation Science Park, High Tech, Industrial Development District, Wuxi Town, Luxi County, Hunan Province, P.R.China
Equipment Under Test (EUT):
EUT Name: Power Bank
Model No.: P189W10, HG08292A-US, HG08292B-US ♣
 ♣ Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: HAME
FCC ID: 2ADOW-P189W10
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2021-06-11
Date of Test: 2021-06-16 to 2021-07-05
Date of Issue: 2021-07-06

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above



Keny Xu
 EMC Laboratory Manager





<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2021-07-06		Original

Authorized for issue by:			
		<i>Charlie Dai</i>	
		Charlie Dai/Project Engineer	
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		Eric Fu/Reviewer	



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3 General Information

3.1 Details of E.U.T.

Power Supply:	Lithium-ion rechargeable battery (DC 3.7V 1000mAh) which can be charged from Type-C port. Type-C Input: 5V/3A, 9V/2A, 12V/1.5A Type-C Output: 5V/3A, 9V/2A, 12V/1.5A USB-A Output: 5V/3A, 9V/2A, 12V/1.5A Wireless charger output: 10W Max.
Cable(s):	USB Cable 15cm Unshielded
Operation frequency:	136.60kHz to 147.60kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W, 7.5W and 10W, the worst case 10W is reported only.

Declaration of EUT Family Grouping:

Model No.: P189W10, HG08292A-US, HG08292B-US

Only the model P189W10 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on trade mark and model No.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Load Resistor	SGS	N/A	REF. No.SEA06A00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00



3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2021-11-26



5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15cm

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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

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.





5.1.2 Measurement Data

Output Voltage=DC 5V; The max output power =10W;Calculation of resistor value=2.5Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
137 kHz	15	Side 1	0.0745	0.815
		Side 2	0.0689	0.815
		Side 3	0.0721	0.815
		Side 4	0.0693	0.815
		Top	0.0546	0.815

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

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	
137 kHz	15	Side 1	0.0805	0.0693	0.0586	0.815
		Side 2	0.0765	0.0624	0.0560	0.815
		Side 3	0.0764	0.0646	0.0594	0.815
		Side 4	0.0748	0.0631	0.0533	0.815
		Top	0.0568	0.0481	0.0434	0.815



6 Photographs- RF exposure setup

Refer to RF Exposure Setup Photos.

- End of the Report -

