RF EXPOSURE Test Report

Product: All-in-One Power Station

Trade Mark: N/A

Model Number: T292

FCC ID: 2BNQB-T292

Prepared for

Smarmac Technology Company Ltd.

Unit B, 3/F, Double Diamond, No. 29, Avenida do Conselheiro Mazzei, Macau

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China

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Table of Contents

TEST RESULT CERTIFICATION

Applicant's Name	:	Smarmac Technology Company Ltd.
Address	:	Unit B, 3/F, Double Diamond, No. 29, Avenida do Conselheiro Mazzei, Macau
Manufacturer's Name	:	Smarmac Technology Company Ltd.
Address	:	Unit B, 3/F, Double Diamond, No. 29, Avenida do Conselheiro Mazzei, Macau

Product description

Product name	:	All-in-One Power Station
Model Number	:	T292
Standards	:	FCC CFR 47 PART 1 , 1.1310
Test procedure	:	KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test	:	
Date (s) of performance of tests	:	Feb. 11, 2025~ Feb. 18, 2025
Test Result	:	**Pass**

Testing Engineer : Zoe Su

(Zoe Su)

Technical Manager : Gary Lu

(Gary Lu)

Authorized Signatory : Leo Su

(Leo Su)

Revision History

Revised No.	Date of Issue	Description
01	Feb. 18, 2025	Original

1 General Description

1.1 Description of EUT

Product name:	All-in-One Power Station
Model name:	T292
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	110.5kHz-205kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Antenna gain:	0dBi
Hardware version:	V1.0
Software version:	V1.0
Battery:	N/A
Power supply:	Input: 15V⎓4.35A USB-C Output: 5V⎓3A, 9V⎓2A, 12V⎓1.5A USB-A Output: 5V⎓3A, 9V⎓2A, 12V⎓1.5A USB-A+USB-C Output: Total 5V⎓4A Wireless Output: 5W, 7.5W, 10W*3 Side USB-C Output 5V⎓1A
Adapter information:	INPUT: 100-240V~ 50/60Hz 1.2A OUTPUT: 15.0V⎓4.3A 64.5W

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	AC/DC Adapter+Wireless Output (Coil 1: 5W+ Coil 2: 5W+ Coil 3: 5W)
2	AC/DC Adapter+Wireless Output (Coil 1: 7.5W+ Coil 2: 7.5W+ Coil 3: 7.5W)
3	AC/DC Adapter+Wireless Output (Coil 1: 10W+ Coil 2: 10W+ Coil 3: 10W)

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Load	YBZ3.1	/	YBZ

2 Test Facilities and Accreditations

2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15ºC~35ºC
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

2.3 Measurement Uncertainty

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.
The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.
In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	$2x\ 10^{-5}$	
E-field	± 2.5 dB	
H-field	± 4.2 dB	
Temperature	±1 degree	
Humidity	± 5 %	

2.4 Test Software

Software name	Manufacturer	Model	Version
EHP200-TS	Narda	EHP-200A	Rel 1.95

3 List of Test Equipment

Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E073	Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11013	2024-05-21	2025-05-20

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4 RF Exposure

4.1 Maximum Permissible Exposure

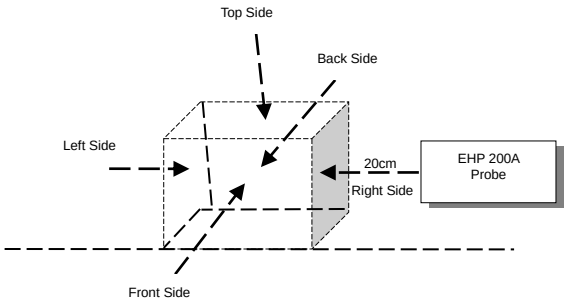
4.1.1. Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
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	6
300-1500	/	/	f/300	6
1500-100000	/	/	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
1500-100000	/	/	1	30
f = frequency in MHz * = Plane-wave equivalent power density				

4.1.2. Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 20 cm surrounding the device and 20 cm above the top surface of the primary/client pair.
These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.
Record the test results.

4.1.3. Test Setup



4.1.4. Test Result

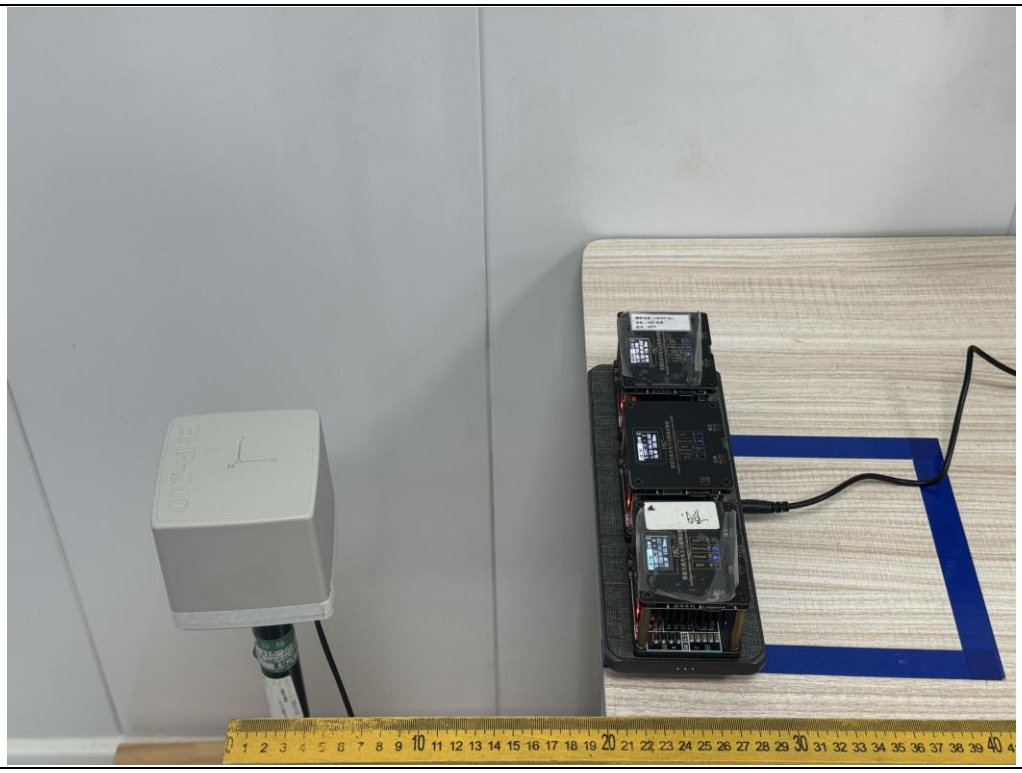
Test condition: Mode 3 operating mode with client device (1 %, 50%, 99% battery status of client device)

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<1%	Top	20	4.7376	0.5165
<1%	Left	20	2.3292	0.1718
<1%	Right	20	2.0356	0.1664
<1%	Front	20	1.6307	0.2110
<1%	Back	20	1.3052	0.2184
Limit			614	1.63
Margin Limit (%)			0.77%	31.69%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<50%	Top	20	4.7370	0.5159
<50%	Left	20	2.3285	0.1711
<50%	Right	20	2.0348	0.1657
<50%	Front	20	1.6301	0.2102
<50%	Back	20	1.3044	0.2177
Limit			614	1.63
Margin Limit (%)			0.77%	31.65%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<99%	Top	20	4.7362	0.5151
<99%	Left	20	2.3273	0.1705
<99%	Right	20	2.0342	0.1650
<99%	Front	20	1.6295	0.2095
<99%	Back	20	1.3037	0.2171
Limit			614	1.63
Margin Limit (%)			0.77%	31.60%

5 Photographs of the Test Setup

MPE


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