Suzhou Yoshino Power Technology Co. Ltd.

TEST REPORT

SCOPE OF WORK
SAR Assessment– B2000 SST

REPORT NUMBER
250305023SZN-002

ISSUE DATE **[REVISED DATE]**
29 July 2025 [----------]

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DOCUMENT CONTROL NUMBER
RF Exposure

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Test Report

Applicant	:	Suzhou Yoshino Power Technology Co. Ltd. No.9-1 Shengxi Road, Kunshan Development Zone 215300 Kunshan City Jiangsu PEOPLE'S REPUBLIC OF CHINA
Sample Description	:	Portable Power Station
Product Model No.	:	B2000 SST
Brand Name		YOSHINO SOLID-STATE POWER
Electrical Rating	:	Input: AC Input: 100-120VAC, 50/60Hz Charging Mode: 1500W Max Solar Input: 12-60VDC/10A, Max, 600W Max Wireless Charging: 5VDC/1A, 9VDC/1.1A, 12VDC/1.25A
Date Received	:	05 March 2025
Date Test Conducted	:	05 March 2025 to 18 May 2025
Test Requested	:	Test for compliance with CFR 47 part 1
Test Method	:	Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310 KDB 680106 D01 Wireless Power Transfer v04
Test Result	:	Pass
Conclusion	:	When determining of test conclusion, measurement uncertainty of tests have been considered.

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Prepared and Checked By:

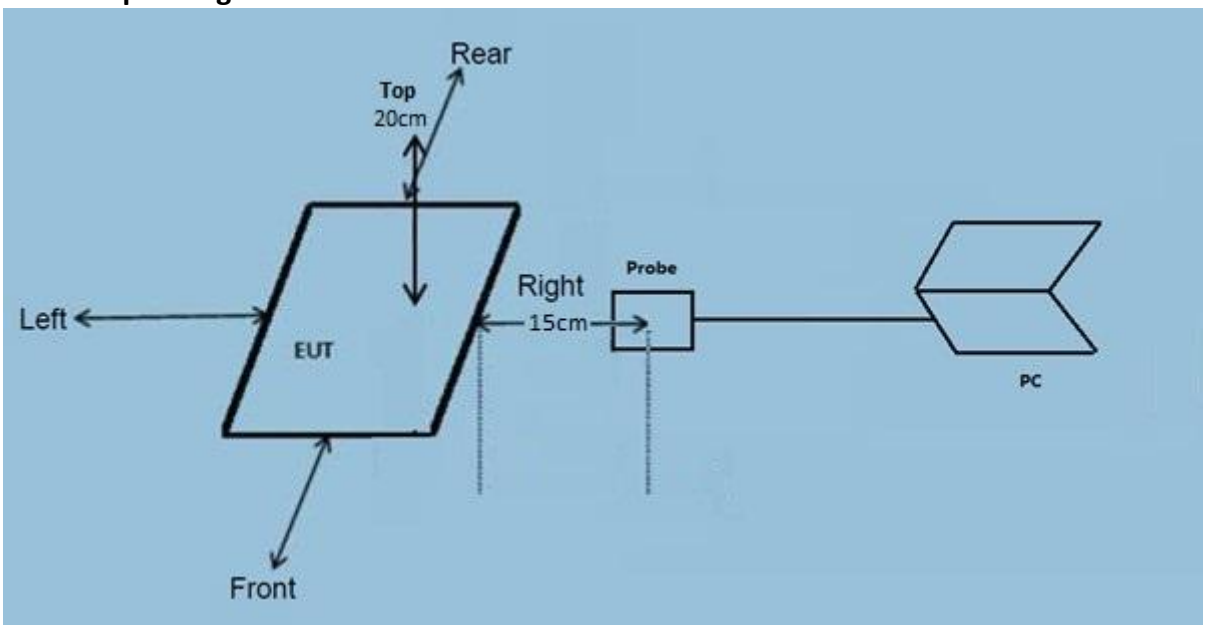
Rode Liu
Project Engineer

Approved By:

Johnny Wang
Project Engineer
Date: 29 July 2025

Test Report

Test Setup Configuration



Note
- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.

Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ186-06	The Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8H3D+E3D	510WY90119	2024-04-30 2025-04-30	2025-04-30 2026-04-30

This product was tested in the following configuration:

Description	Manufacturer	Detail
Mobile Phone (Provided by Intertek)	Samsung	S7
Lamp (Provided by Intertek)	/	E27
Lamp holder with AC cable (Provided by Intertek)	/	AC Cable length: 0.8meter, unshielded
Laptop (Provided by Intertek)	DELL	P137G
Cement Resistance (Provided by Intertek)	/	2ohm*2, 1.67ohm, 4ohm, 7.2ohm, 1.26ohm*2, 2.52ohm
DC5521 to DC5521 Cable (Provided by Intertek)	/	0.8meter, unshielded
USB-C to C Cable (Provided by Intertek)	/	1.0meter, unshielded
USB-C Cable (Provided by Intertek)	/	0.6meter, unshielded
USB-A Cable (Provided by Intertek)	/	0.7meter, unshielded
USB-A Cable (Provided by Intertek)	/	0.7meter, unshielded
AC Cable (Provided by Applicant)	/	1.8meter, unshielded
Cigarette Car Charging Cable (Provided by Applicant)	/	3.0meter, unshielded
Solar Charging Cable (Provided by Applicant)	/	1.5meter, unshielded
DC5521 to Cigarette Car Female Output Cable	/	0.5meter, unshielded

Justification

Pertest mode	**Description**
Mode 1	Standby mode
Mode 2	Bypass + Mobile phone is charging at 1% battery power + USB Output + DC Output
Mode 3	Inverter + Mobile phone is charging at 1% battery power + USB Output + DC Output
Mode 4	Bypass + Mobile phone is charging at 50% battery power + USB Output + DC Output
Mode 5	Bypass + Mobile phone is charging at 99% battery power + USB Output + DC Output

The EUT was powered by AC Input: 100-120VAC, 50/60Hz or Car Input: 12VDC/10A, 120W Max; or Solar Input: 12-60VDC/10A, Max, 600W Max input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. and only the worst-case data was shown in this report.

Reference Limit:
Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100) *	30

Note: * = Plane wave equivalent power density

Test Result:
During test, the mobile handset is being charged.
Worst Case Operating Mode: Mode 2

Test Result for wireless power transmit part:
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.111-0.205	1% Battery Level	0.05	0.08	0.13	0.14	0.13	1.63
0.111-0.205	50% Battery Level	0.03	0.06	0.11	0.12	0.11	1.63
0.111-0.205	99% Battery Level	0.02	0.05	0.09	0.09	0.08	1.63
0.111-0.205	Stand-by	0.01	0.02	0.03	0.05	0.05	1.63

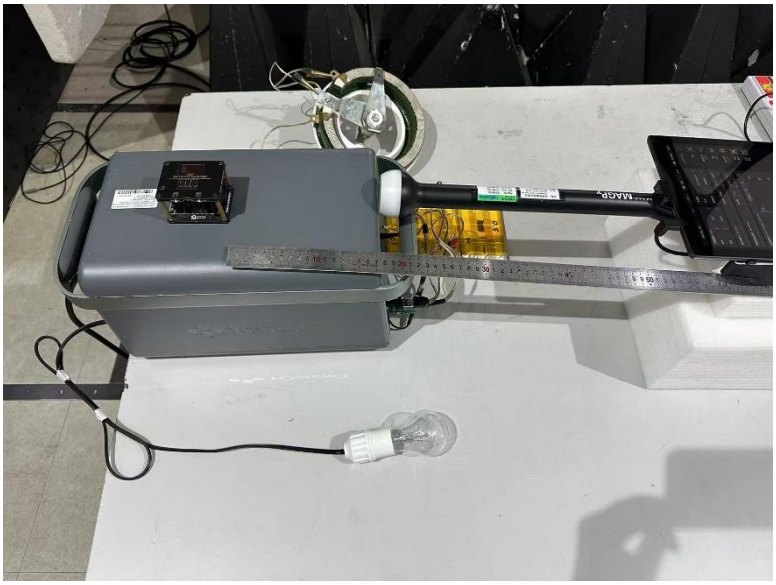
E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.111-0.205	1% Battery Level	1.32	1.97	4.07	2.12	4.41	614
0.111-0.205	50% Battery Level	1.26	1.44	2.75	1.56	2.45	614
0.111-0.205	99% Battery Level	1.05	1.33	1.47	1.26	1.65	614
0.111-0.205	Stand-by	0.55	0.87	0.81	0.85	0.92	614

Configuration photo of the test:

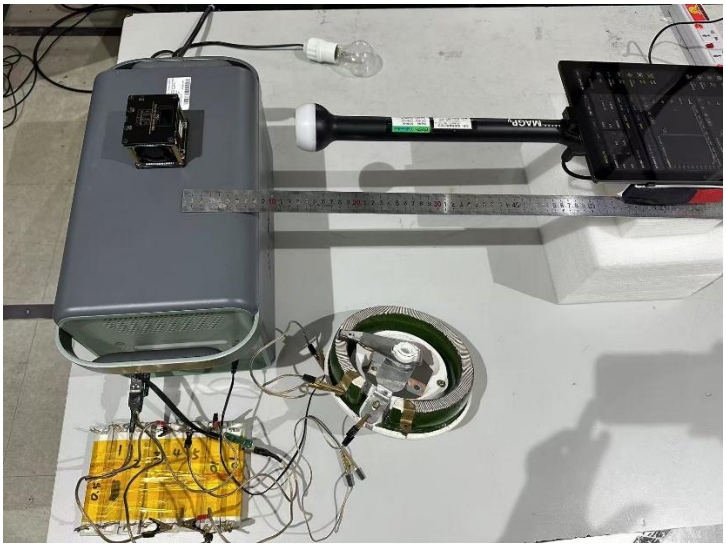
H-Field & E-Field Strength test photos

Front



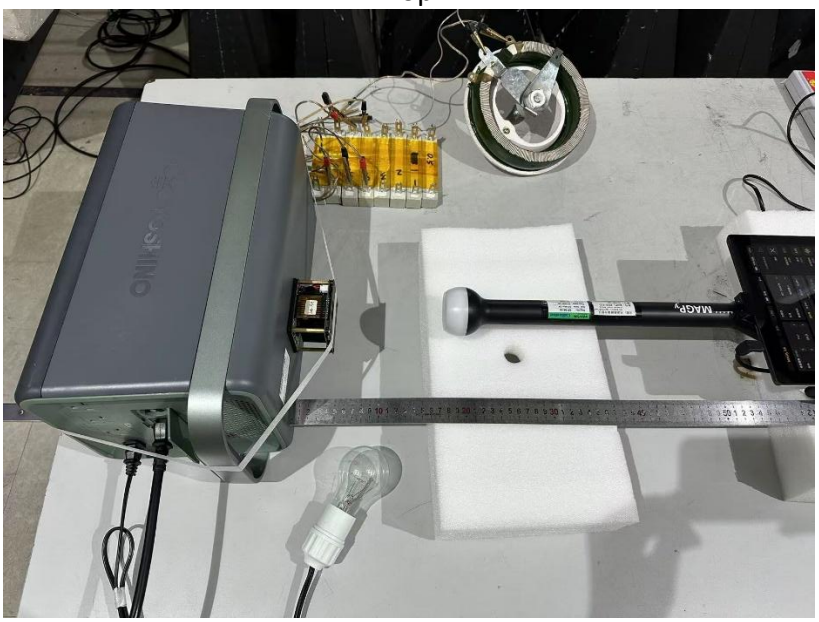
Rear

Left



Right

Top



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