Xianyang Huafei Precision Machining Co., Ltd.

TEST REPORT

SCOPE OF WORK
SAR Assessment – Purea 3

REPORT NUMBER
240508040SZN-001

ISSUE DATE **[REVISED DATE]**
20 May 2024 [----------]

PAGES
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DOCUMENT CONTROL NUMBER
RF Exposure

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TEST REPORT **Intertek No.: 240508040SZN-001**

Test Report

Applicant	:	Xianyang Huafei Precision Machining Co., Ltd. No. 31901, Floor 19, Unit 3, Building 2, Jingdu Jiayuan, Liucang Street, Qindu District, Xianyang, Shaanxi, China
Sample Description	:	Portable Power Station
Product Model No.	:	Purea 3
Brand Name	:	AMPAURA
Electrical Rating	:	Wireless charging output 1: 15W Max. Wireless charging output 2: 15W Max.
Date Received	:	08 May 2024
Date Test Conducted	:	17 May 2024
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 RF Exposure Wireless Charging App v04r01
Test Result	:	Pass
Conclusion	:	When determining of test conclusion, measurement uncertainty of tests have been considered.

Prepared and Checked By:

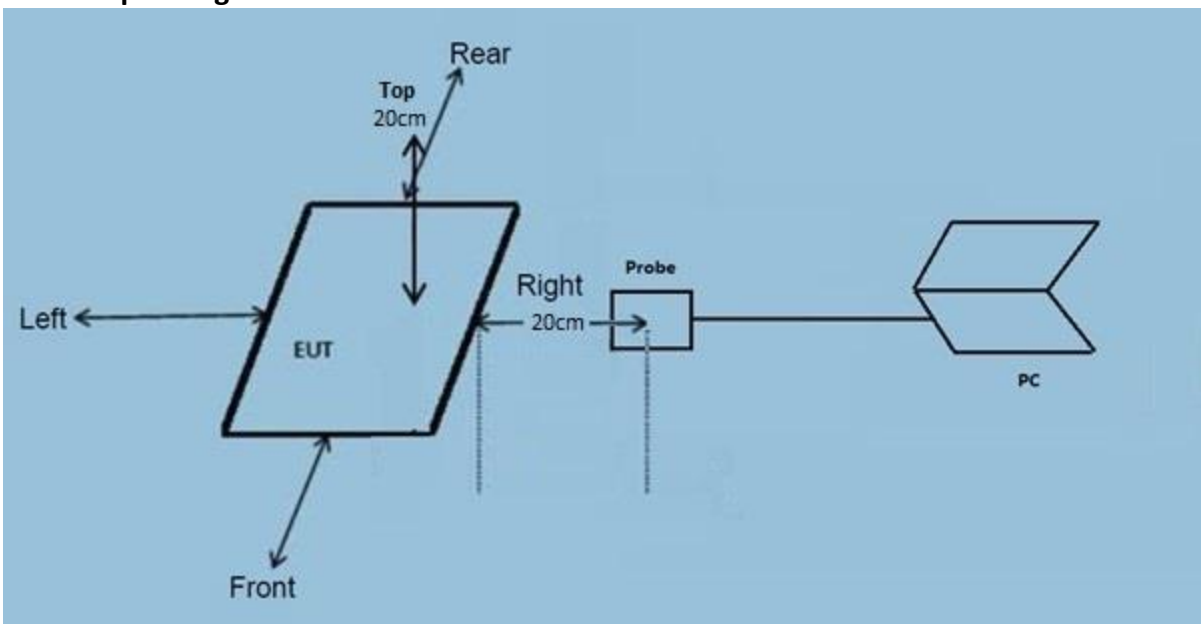
Jeff Liang
Project Engineer

Approved By:

Ryan RQ Chen
Sr. Project Engineer
Date: 20 May 2024

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	3094	2024-03-07	2025-03-07

This product was tested in the following configuration:

Description	Manufacturer	Detail
Intelligent wireless charging full function test module	N/A (Provided by Intertek)	N/A

Justification

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.

Pertest mode	Description
Mode 1	Standby mode
Mode 2	1% load
Mode 3	50% load
Mode 4	100% load

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 and earbud is being charged.
Worst Case Operating Mode: Mode 4

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

Frequency Range (MHz)	Wireless charging Coil	Probe Position (A/m)					Limits (A/m)
		Front	Rear	Left	Right	Top	
0.115-0.148	Single Left	0.02	0.06	0.10	0.06	0.09	1.63
0.115-0.148	Single Right	0.10	0.11	0.08	0.02	0.06	1.63
0.115-0.148	Simultaneous (Left + Right)	0.04	0.12	0.09	0.10	0.07	1.63
0.115-0.148	Standby	0.004	0.01	0.004	0.003	0.27	1.63

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

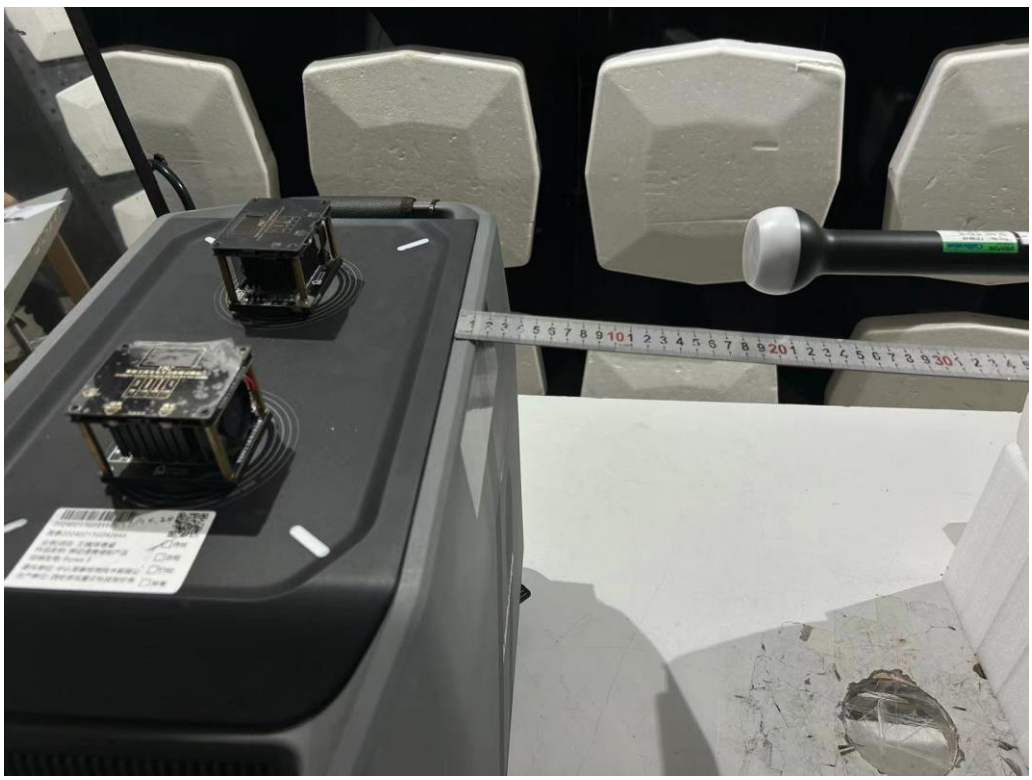
Frequency Range (MHz)	Wireless charging Coil	Probe Position(V/m)					Limits (V/m)
		Front	Rear	Left	Right	Top	
0.115-0.148	Single Left	0.15	0.23	0.11	1.23	1.12	614
0.115-0.148	Single Right	0.23	0.20	0.19	0.14	0.18	614
0.115-0.148	Simultaneous (Left + Right)	0.25	0.31	0.23	0.23	1.12	614
0.115-0.148	Standby	0.44	0.51	0.34	0.27	1.54	614

Configuration photo of the test:

H-Field & E-Field Strength test photos

Front

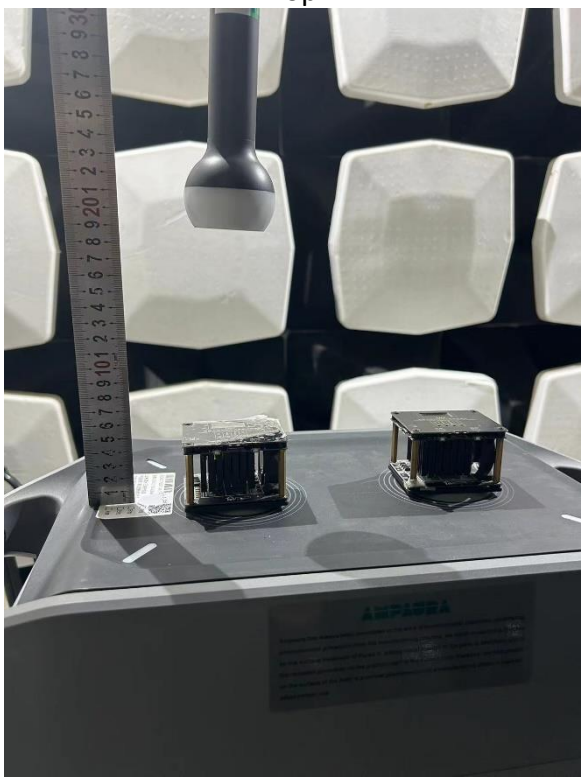
Rear



Left

Right

Top



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