

# ASAP Technology (jiangxi) Co., Ltd

# TEST REPORT

## SCOPE OF WORK

SAR Assessment– 080-08-3787

## REPORT NUMBER

240430021SZN-002

## ISSUE DATE

05 June 2024

## [REVISED DATE]

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## PAGES

5

## DOCUMENT CONTROL NUMBER

RF Exposure

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## Test Report

Applicant : ASAP Technology (jiangxi) Co., Ltd  
Ji'an Industrial Park, Ji'an, Jiangxi 343100 China

Sample Description  
Product : Wireless charger

Model No. : 080-08-3787

Electrical Rating : Input: 5V/3A, 9V/2.22A  
Wireless Output: 15W

Date Received : April 30, 2024  
Date Test Conducted : April 30, 2024 to April 30, 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 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:**

**Approved By:**

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**Tenet Cao**  
**Assistant Engineer**

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**Ryan Chen**  
**Sr. Project Engineer**  
**Date: 05 June 2024**

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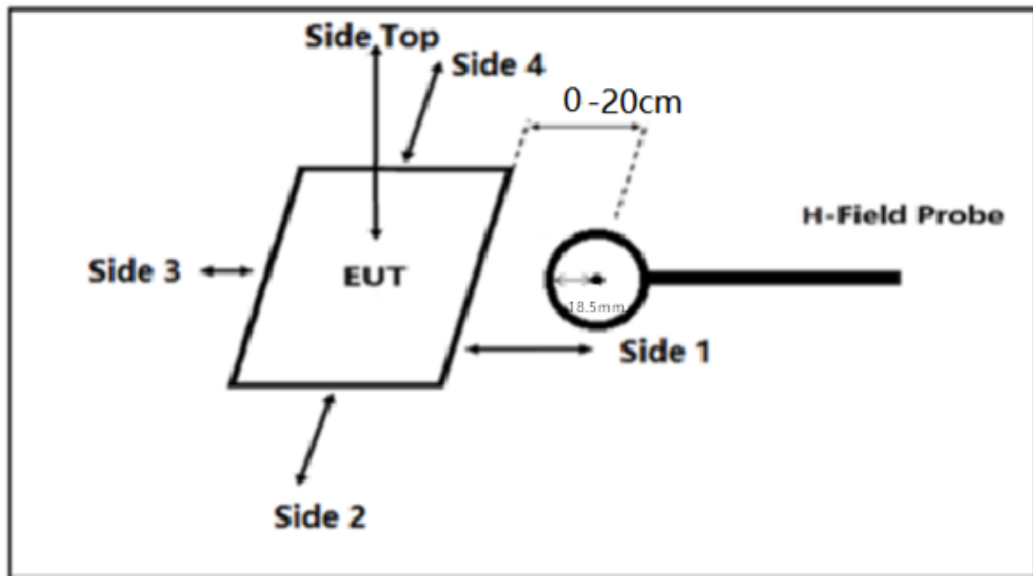
101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen.

Tel: (86 755) 8601 6288

Fax: (86 755) 8601 6751

## Test Report

### Test Setup Configuration



**Note:**

- The RF exposure test is performed in the shield room.
- The test distance is measured from the center of the test probe along all three axes of the device, from 0 cm to 20 cm, from the edge of the device coil in minimum 2 cm increments.

**Test Equipment List**

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ186-06	The Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8D3D+E3D	2024-03-07	2025-03-07

**This product was tested in the following configuration:**

Description	Manufacturer	Detail
Mobile phone	Samsung (Provided by Intertek)	Model: Samsung (SM-G9300)
Adapter	dealworthy™ (Provided by Client)	Model: 080-08-3787 Input: 100-240Vac 50/60Hz 0.5A Output: 5Vdc 3A, 9Vdc 2.22A

**Justification**

The EUT was powered by an adapter with 120V/60Hz input during the test. All power input voltages (DC 5V=3A, 9V=2.22A) and all rated output powers have been tested. And have considered all the following EUT modes of operation to pre-scan the test system.

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power
Mode 5	Continuous maximum power

**Note:**

- H-field data are measured in minimal increments of 2 cm from the edge of the device along all three axes of the device, from 0 cm to 20 cm, one axis is consistent with the axis of the main coil, all modes and distances have been fully tested. The worst-case testing data were recorded in this report.
- Mode 5 is a special product sample provided by the customer for this test, which allows the equipment to operate at maximum power without a client device.

**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 <sup>2</sup> )	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 phone is being charged.**

**Worst Case Operating Mode: Mode 2 for 2cm distance; Mode 2 for 4cm to 20cm distance**

**Center of the probe to the probe outer edge is 1.85 cm, so the test distance can only reach 2cm.**

**H-field strength measurement result at 2cm to 20 cm:**

Test Position	Test distance(cm)										Limits (A/m)
	2	4	6	8	10	12	14	16	18	20	
Side 1	1.041	0.353	0.051	0.032	0.052	0.029	0.016	0.012	0.010	0.007	1.63
Side 2	1.013	0.392	0.303	0.024	0.043	0.021	0.015	0.011	0.009	0.008	1.63
Side 3	0.933	0.271	0.060	0.051	0.039	0.021	0.016	0.011	0.010	0.006	1.63
Side 4	1.011	0.356	0.133	0.034	0.041	0.020	0.017	0.010	0.009	0.007	1.63
Top	0.823	0.195	0.042	0.031	0.024	0.021	0.018	0.013	0.011	0.009	1.63

## H-field strength at 0cm:

### Validation:

To determine the H-field strength of 0mm, an extrapolation function by setting to Probe tip in the software of MAGPy handheld system has been used.

The validation for this extrapolation is as follows:

Test mode	Distance (cm)	Estimated value (A/m)	30% tolerance (A/m)		Measured value (A/m)
			Min	Max	
Mode 5	1.85	1.29 (probe tip to EUT)	0.90	1.68	1.29 (probe center to EUT)
Mode 5	3.7	0.59 (probe tip to EUT)	0.41	0.77	0.57 (probe center to EUT)
Mode 5	5.55	0.12 (probe tip to EUT)	0.08	0.16	0.09 (probe center to EUT)
Conclusion: Estimated value has 30% agreement with actual measurement, verified the probe tip function.					

### Note:

1. According to KDB 680106 D01 V04, the validation is considered sufficient if a 30% agreement between the Estimated value and the (E- and/ H-field) probe measurements is demonstrated.
2. Estimated value is obtained from the tip function of the probe.

## Estimated H-field Result at 0 cm:

EUT Operation mode	Side 1(A/m)	Side 2(A/m)	Side 3(A/m)	Side 4(A/m)	Top(A/m)	Limits (A/m)
Mode 5	1.29	1.22	1.28	1.24	1.16	1.63

## Configuration photo of the test:

Please refer to RF Exposure setup photos. pdf.

\*\*\*\*\* End of Report\*\*\*\*\*