

# Dongguan Zuoqi Electronic Co.,Ltd

## TEST REPORT

**SCOPE OF WORK**

SAR Assessment– FB-12, FB-13

**REPORT NUMBER**

220621025SZN-003

**ISSUE DATE**

08 July 2022

**[REVISED DATE]**

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**PAGES**

7

**DOCUMENT CONTROL NUMBER**

RF Exposure

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## Test Report

Applicant : Dongguan Zuoqi Electronic Co.,Ltd  
No. 6 Chuang Ye 1st Road, He Lu Village, Huangjiang Town, Dongguan City, Guangdong Province, China

Sample Description : Bluetooth Speaker Side Table  
Product Model No. : FB-12, FB-13  
Brand Name : zuoqi, Real Living  
Electrical Ra : DC 3.7V rechargeable battery which can be charged by adapter with DC 5V/3A, 9V/2A, 12V/1.5A  
Wireless Output: 10W Max  
Output USB-A: 5V/1A

Date Received : 21 June 2022  
Date Test Conducted : 21 June 2022 to 28 June 2022

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 v03r01

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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**Project Engineer**

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**Ryan Chen**  
**Project Engineer**  
**Date: 08 July 2022**

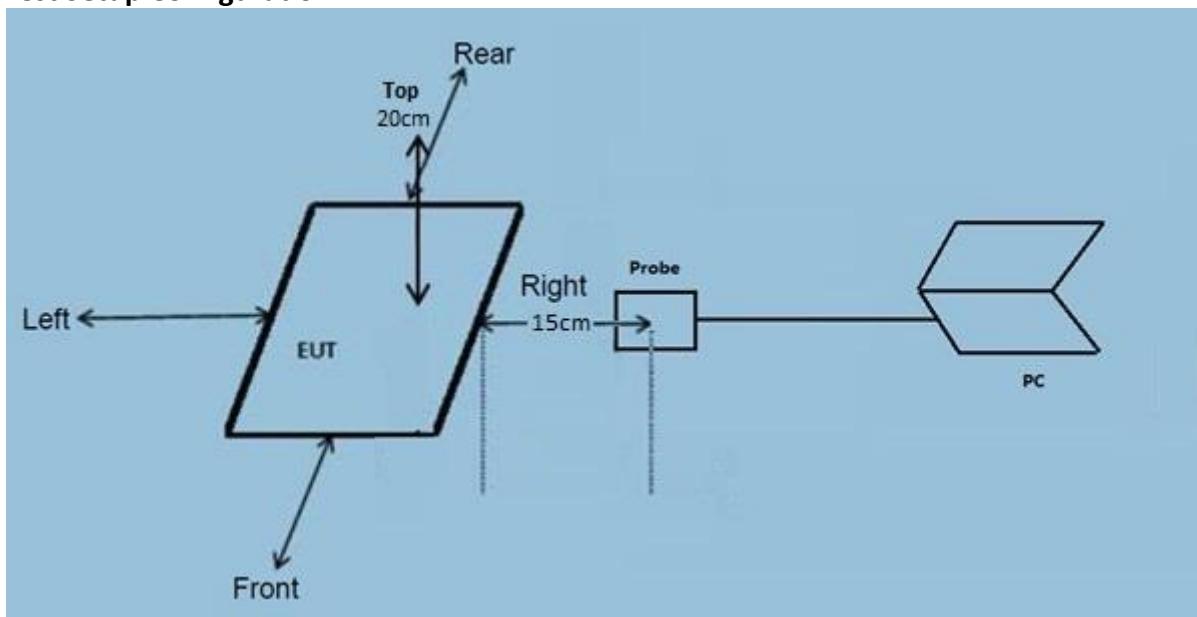
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## Test Report

### 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
SZ186-04	Electric and Magnetic Field Analyzer	Narda	EHP-50F	510WY90119	20-Jul-2021	20-Jul-2022

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

Description	Manufacturer	Detail
Mobile Phone	SAMSUNG	S7
Type-C cable	N/A (Provided by client)	Unshielded, Length 90cm
AC Adapter	Xiaomi (Provided by Intertek)	Model: MDY-09-EV Input: 100-240V~, 50/60Hz, 1.7A Output: 5V=3A, 9V=2A, 12V=1.5A
Resistor	N/A (Provided by Intertek)	5 Ω

**Justification**

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	Simultaneous Transmission

When EUT is powered by battery, wireless charger is disabled, only EUT is powered by adapter, wireless charger can work.

The EUT was powered by an adapter with 120V/60Hz 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 <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

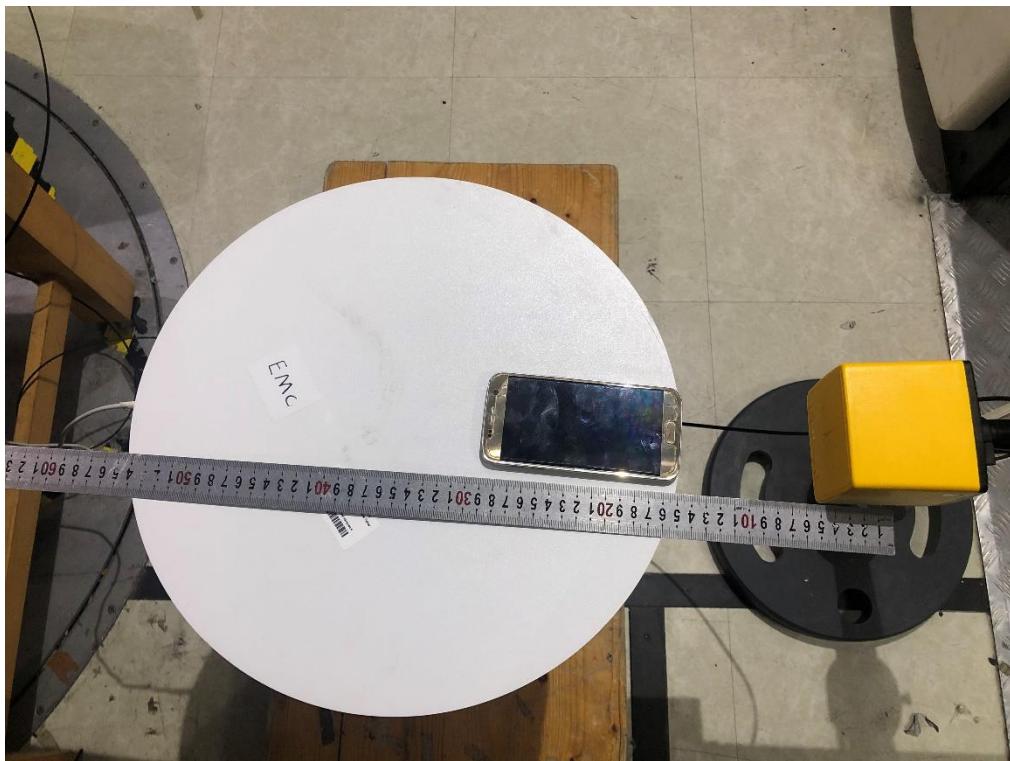
Note: \* = Plane wave equivalent power density

**Test Result:**
**During test, the mobile 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)
0.112-0.205	1% Battery Level	0.3554	0.3522	0.3501	0.3540	0.1336	1.63
0.112-0.205	50% Battery Level	0.3421	0.3361	0.3443	0.3412	0.1253	1.63
0.112-0.205	99% Battery Level	0.3415	0.3355	0.3320	0.3410	0.1212	1.63
0.112-0.205	Stand-by	0.0431	0.0334	0.0325	0.0422	0.0230	1.63
0.112-0.205	Simultaneous Transmission	0.3411	0.3359	0.3323	0.3435	0.1222	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)
0.112-0.205	1% Battery Level	3.0710	2.9447	2.6359	2.7253	2.1025	614
0.112-0.205	50% Battery Level	2.9920	2.8332	2.5325	2.6665	2.0012	614
0.112-0.205	99% Battery Level	2.9530	2.8232	2.5236	2.6632	2.0020	614
0.112-0.205	Stand-by	0.9820	0.8326	0.5255	0.6523	0.0035	614
0.112-0.205	Simultaneous Transmission	2.9340	2.8332	2.5259	2.6612	2.0041	614

**Configuration photo of the test:****H-Field & E-Field Strength test photos****Front****Rear**

Left



Right





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