

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

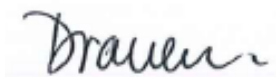
Test Requested : Test for compliance with CFR 47 part 1
Test Method : Environmental evaluation and exposure limit according
to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310 KDB
680106 D01 RF Exposure Wireless Charging App v03r01

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



Ryan Chen
Project Engineer
Date: 08 July 2022

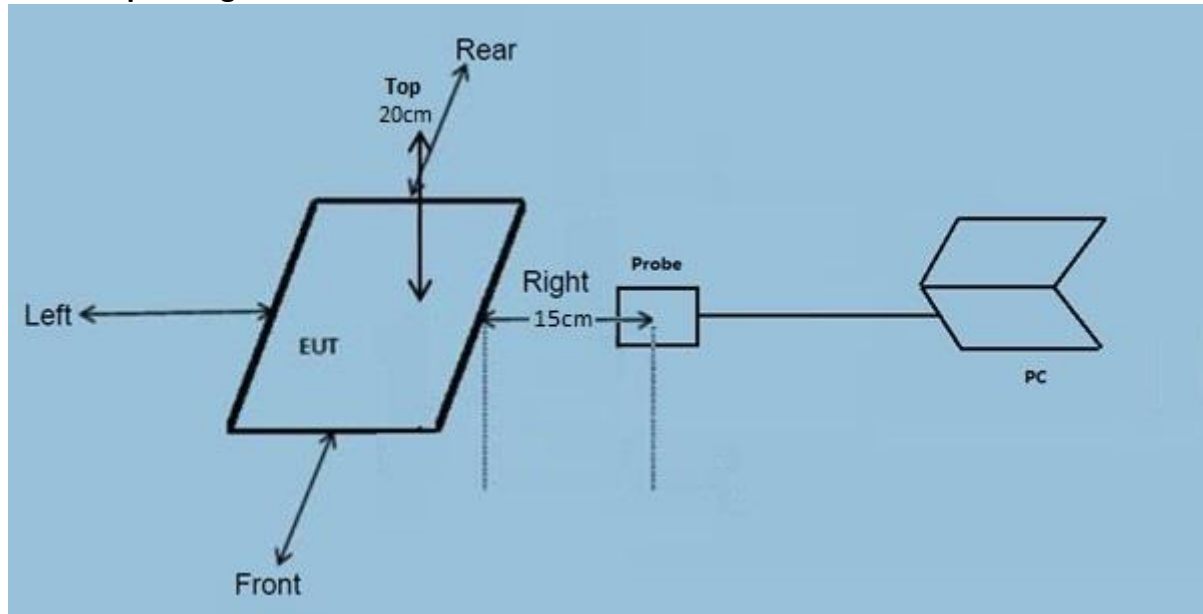
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Test Report

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 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)
0.112-0.205	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

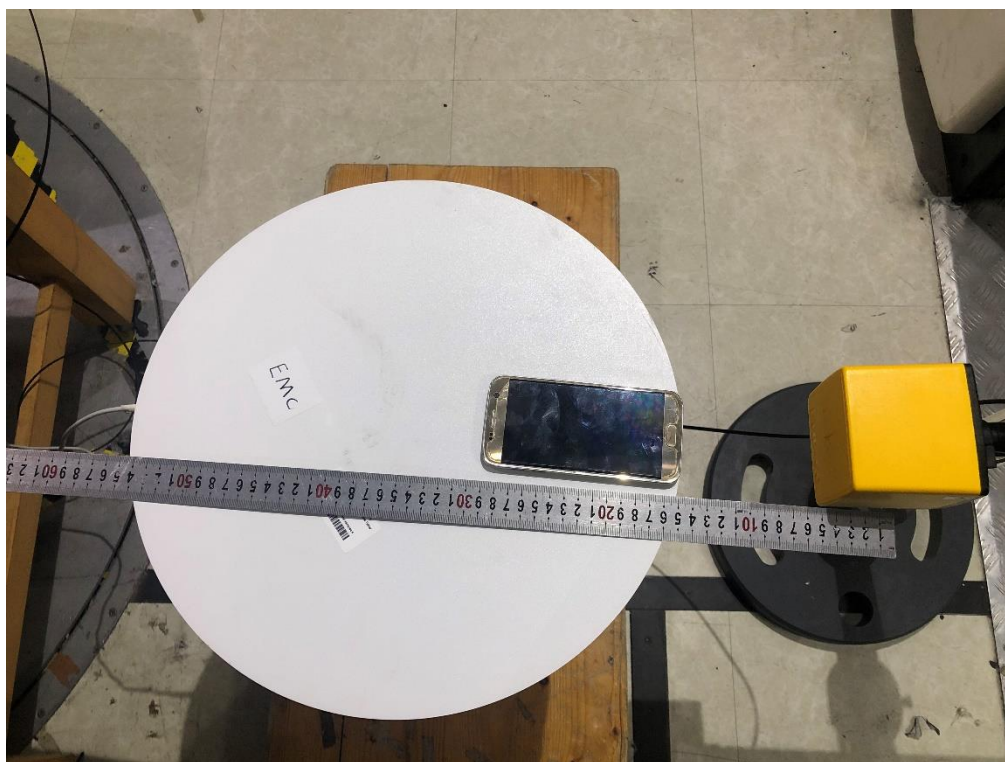
E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

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



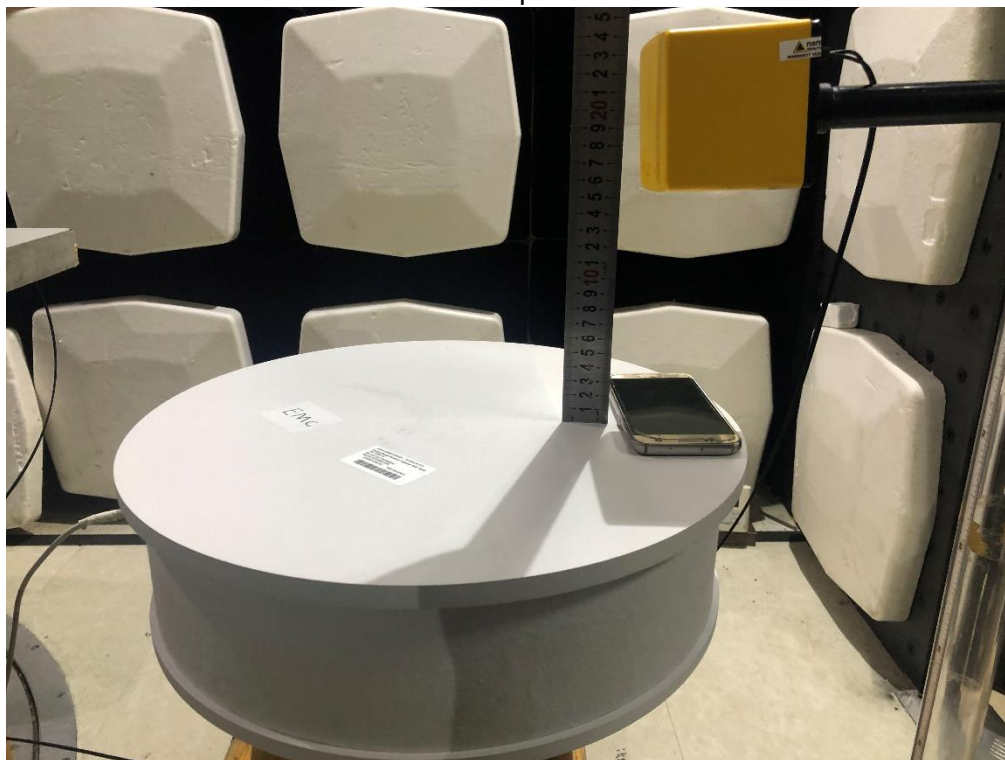
Left



Right



Top



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