

# Ottlite Technologies Inc.

# TEST REPORT

**SCOPE OF WORK**

SAR Assessment– Y41

**REPORT NUMBER**

220402025SZN-003

**ISSUE DATE**

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**[REVISED DATE]**

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**DOCUMENT CONTROL NUMBER**

RF Exposure

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## Test Report

Applicant : Ottlite Technologies Inc.  
1715 N Westshore Blvd, Suite 950, Tampa, FL  
33607,USA

Sample Description  
Product : LED Desk lamp with Wireless Charging  
Model No. : Y41

Electrical Rating : N/A

Date Received : 02 April 2022  
Date Test Conducted : 02 April 2022 to 27 April 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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Date: 12 May 2022

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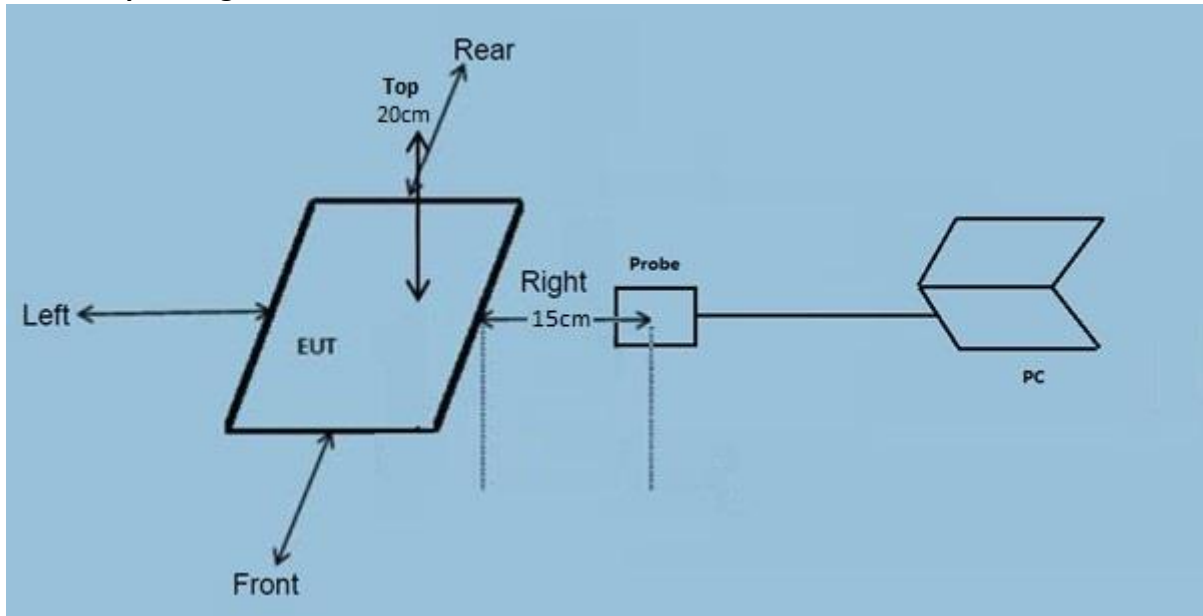
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## Test Report

### 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	2021-07-20	2022-07-20

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

Description	Manufacturer	Detail
Mobile phone	NIL (Provided by Intertek)	Manufacturer: Samsung Model: S7
Class 2 Power Supply	DongGuan Toye Electronics Technology Co., Ltd. (Provided by Client)	Model: TY0500200A1mn Input: 100-240Vac 50/60Hz 0.4A Output: 5Vdc 2.0A
Adjustable Load	NIL (Provided by Intertek)	/

**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

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. 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	0.1999	0.2000	0.2022	0.1993	0.1993	1.63
0.112-0.205	50% Battery Level	0.1992	0.1996	0.2002	0.1991	0.1930	1.63
0.112-0.205	99% Battery Level	0.1988	0.1904	0.1992	0.1983	0.1890	1.63
0.112-0.205	Stand-by	0.1892	0.1899	0.1916	0.1932	0.1823	1.63

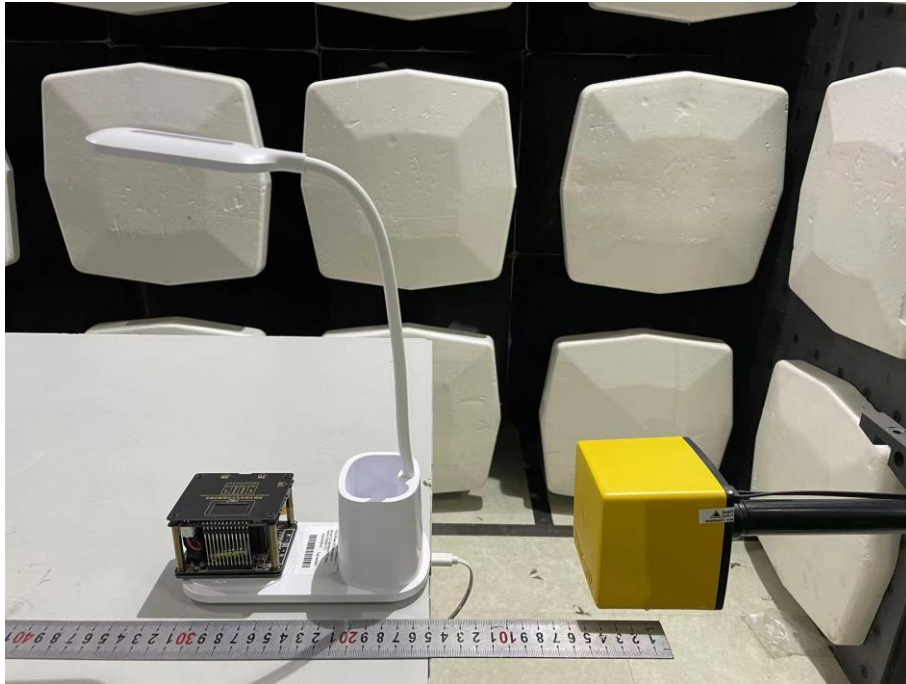
**E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT**

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	3.8144	2.8587	2.9105	3.0908	3.5056	614
0.112-0.205	50% Battery Level	3.8012	2.8445	2.9004	2.9985	3.4964	614
0.112-0.205	99% Battery Level	3.7986	2.7994	2.8143	2.9210	3.4702	614
0.112-0.205	Stand-by	3.2441	2.4120	2.5312	3.3410	3.1984	614

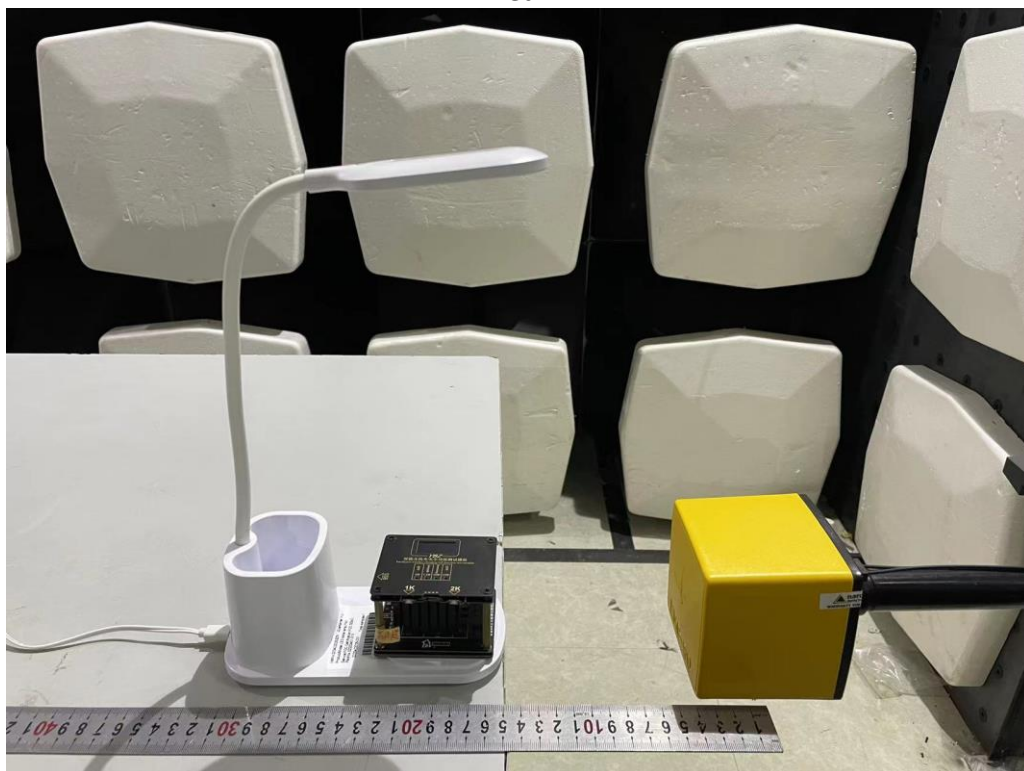
**Configuration photo of the test:**

H-Field & E-Field Strength test photos

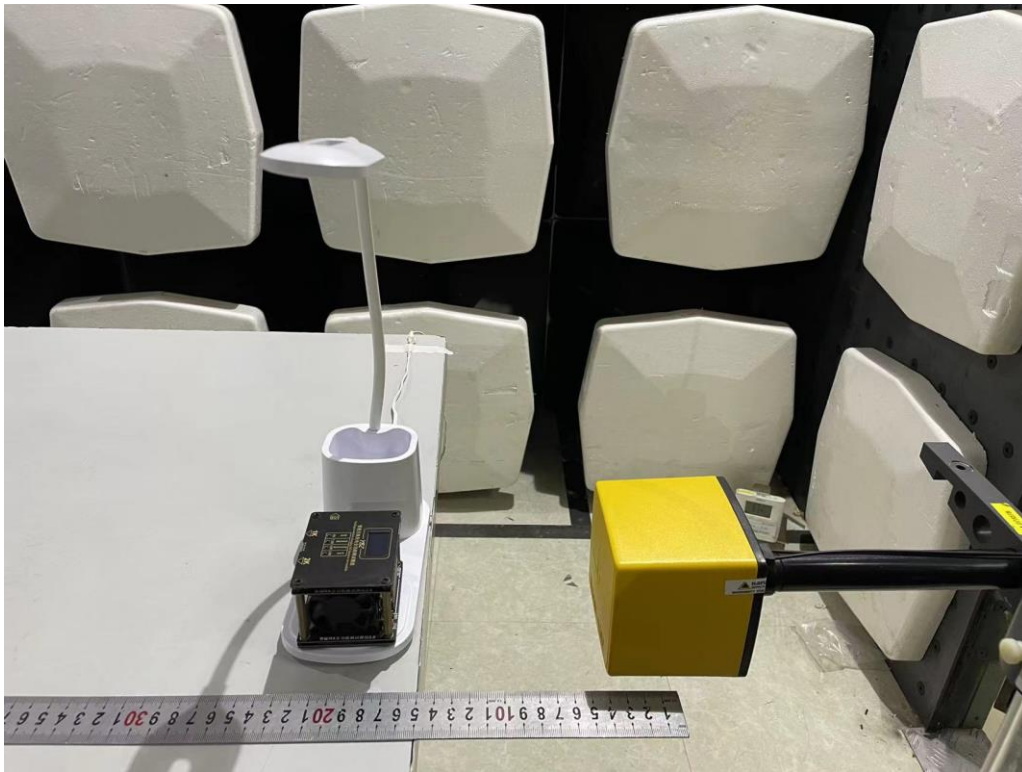
Front



Rear



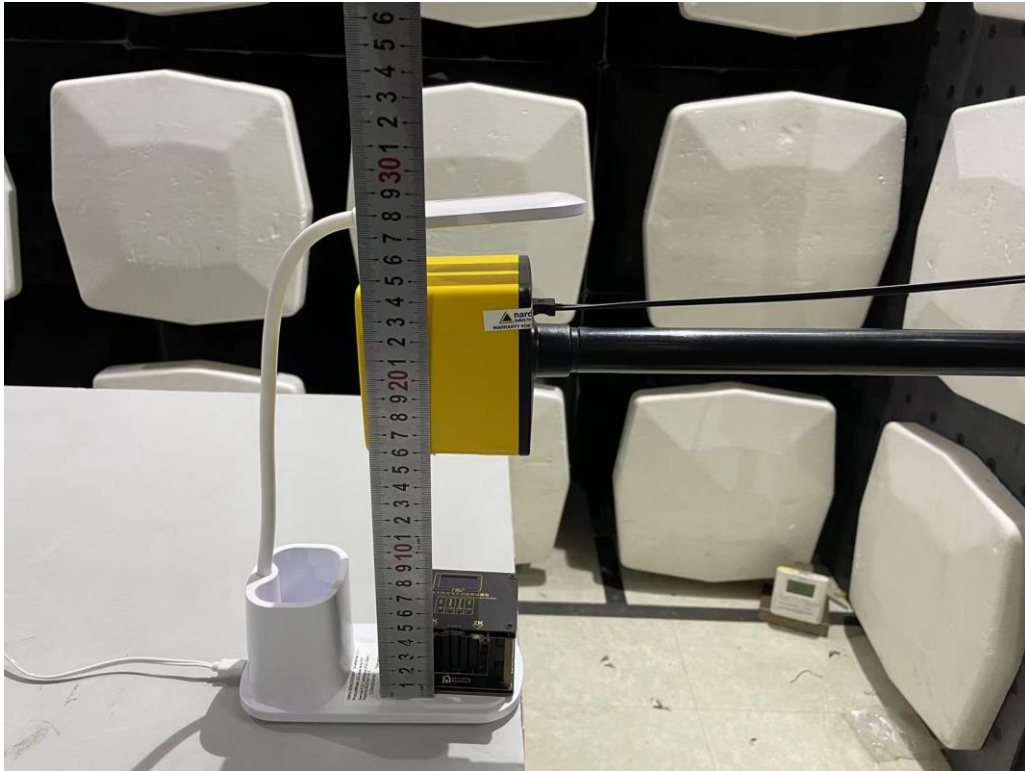
Left



Right



Top



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