OttLite Technologies, Inc.

TEST REPORT

SCOPE OF WORK
SAR Assessment– L024

REPORT NUMBER
230517048SZN-002

ISSUE DATE	**[REVISED DATE]**
14 July 2023	[----------]

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DOCUMENT CONTROL NUMBER
RF Exposure

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TEST REPORT **Intertek No.: 230517048SZN-002**

Test Report

Applicant	:	OttLite Technologies, Inc. 1715 N Westshore Blvd STE 950 Tampa, FL 33607 United States
Sample Description		
Product	:	LED table lamp with Wireless Charging
Model No.	:	L024
Brand Name	:	OttLite
Electrical Rating	:	Input: DC 5V, 3A or 9V, 2.5A from adapter Wireless charging output: 15W (mobile phones area), 5 W (earbuds area) USB port output: DC5V, 0.5A
Date Received	:	17 May 2023
Date Test Conducted	:	17 May 2023 to 27 June 2023
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:

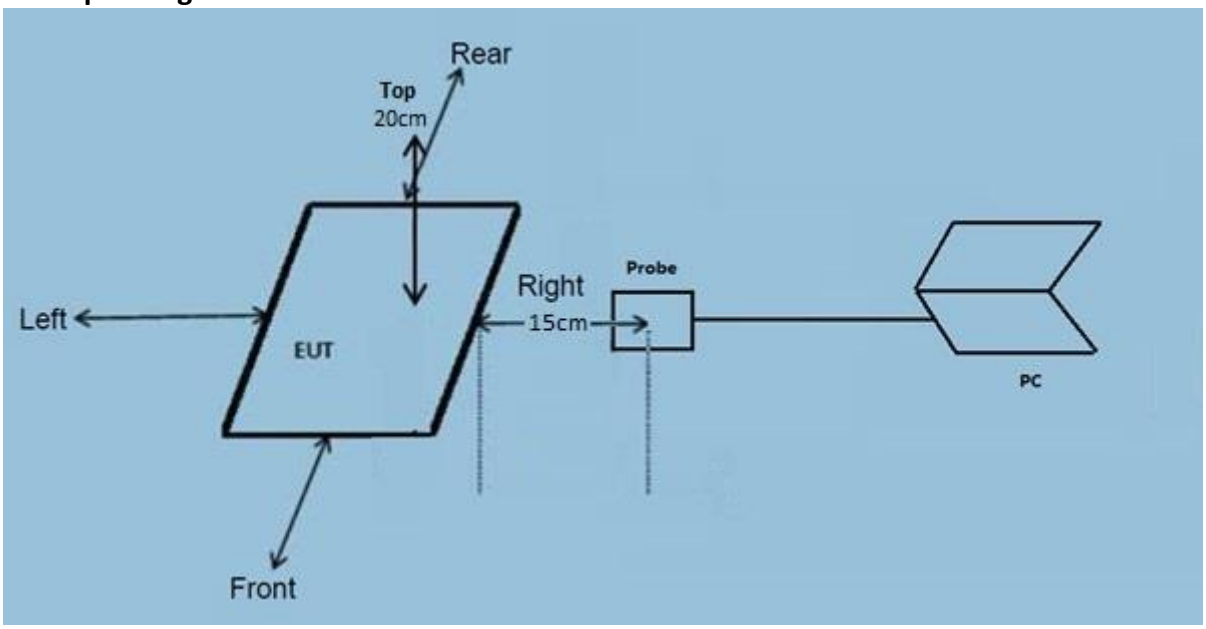
Jeff Liang
Project Engineer

Approved By:

Ryan Chen
Project Engineer
Date: 14 July 2023

Test Report

Test Setup Configuration



Note
- The RF exposure test is performed in the shield room.
- The test distance is at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-50F	Narda	2022-08-01	2023-08-01

This product was tested in the following configuration:

Description	Manufacturer	Detail
Mobile Phone (Provided by Intertek)	Samsung	S7
Earbuds (Provided by Intertek)	Samsung	SM-R510
USB cable (Provided by Applicant)	NIL	Unshielded, Length 80cm
Cement resistor (Provided by Intertek)	NIL	10Ω
Adapter (Provided by Applicant)	N/A	Model No: TOUC60 Input: 100-240VAC 50/60Hz 0.7A Max Output: 5V⎓3A 15.0W or 9V⎓2.5A 22.5W

Justification:

The EUT was powered by an adapter AC 120V/60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. All designing schemes were tested, Only the worst-case data is shown in this report.

For mode 8 to mode 10, both coils were charging during test, measurements were taken with the client being charged by the one coil and measured 15 cm from four edges and 20 cm from top of the coil firstly. And then repeat these measurements for the other coils one by one.

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	Earbuds is charging at 1% battery power
Mode 6	Earbuds is charging at 50% battery power
Mode 7	Earbuds is charging at 99% battery power
Mode 8	Mobile phone+Earbuds is charging at 1% battery power
Mode 9	Mobile phone+Earbuds is charging at 50% battery power
Mode 10	Mobile phone+Earbuds is charging at 99% battery power

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, All devices has been tested the worst status of full load and tested with mobile phone and earbuds at zero charge, intermediate charge, and full charge.

Worst Case Operating Mode: Mode 8

H-Field Strength at 15 cm surrounding the EUT and 20cm away from the surface from the coil of the EUT

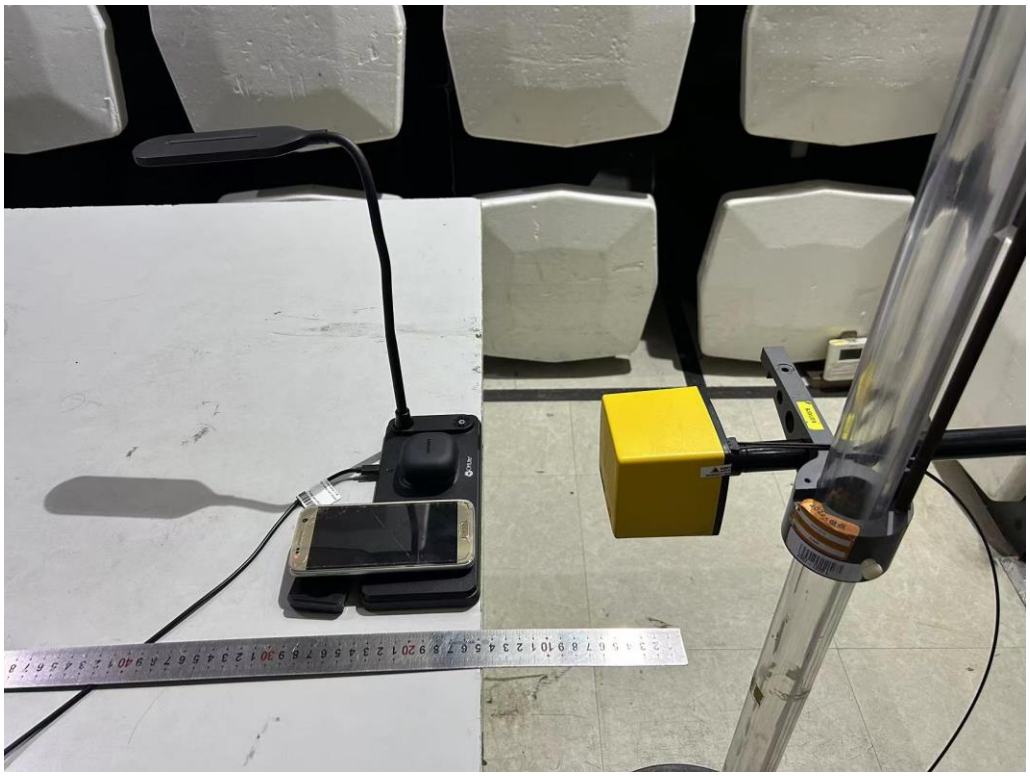
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.111-0.205	1% Battery Level	0.1668	0.2474	0.0333	0.1008	0.2395	1.63
0.111-0.205	50% Battery Level	0.1600	0.2474	0.0333	0.1378	0.2395	1.63
0.111-0.205	99% Battery Level	0.1591	0.2475	0.0354	0.1011	0.2207	1.63
0.111-0.205	Stand-by	0.1591	0.2471	0.0354	0.1011	0.2207	1.63

E-Field Strength at 15 cm surrounding the EUT and 20cm away from the surface from the coil of the EUT

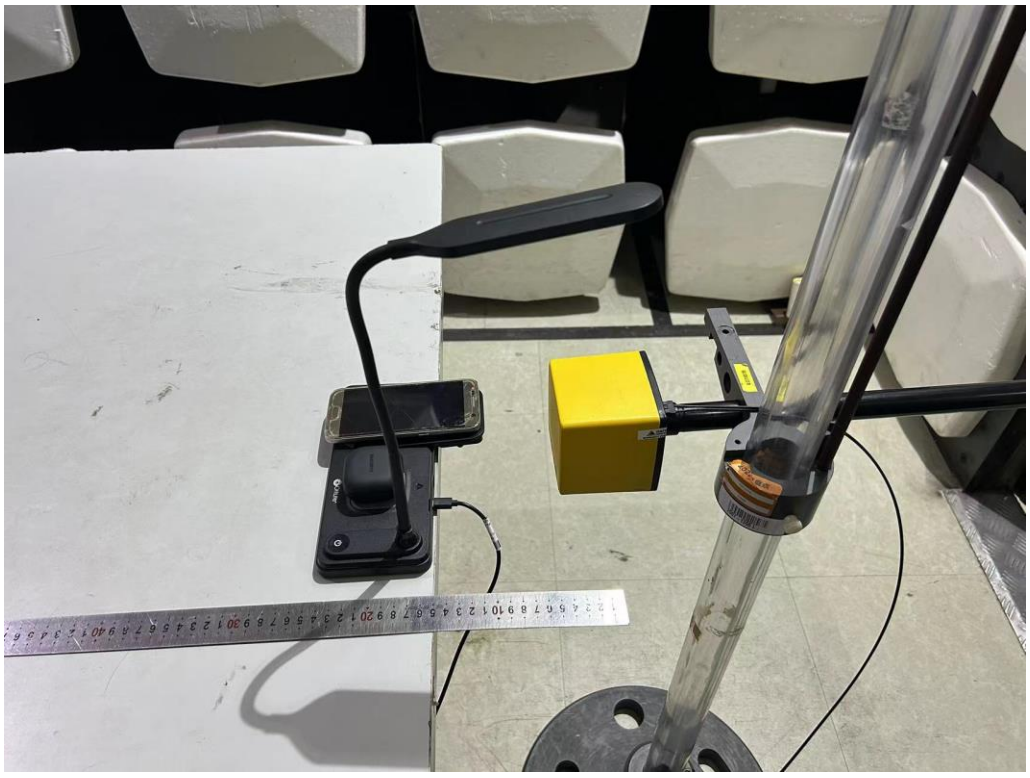
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.111-0.205	1% Battery Level	1.2922	1.3486	0.6663	0.4731	1.5398	614
0.111-0.205	50% Battery Level	1.2817	1.3828	0.6564	0.4734	1.4596	614
0.111-0.205	99% Battery Level	1.2817	1.3828	0.6564	0.5502	1.4596	614
0.111-0.205	Stand-by	1.0896	1.3474	0.7252	0.4533	1.4570	614

Configuration photo of the test:

H-Field & E-Field Strength test photos



Front



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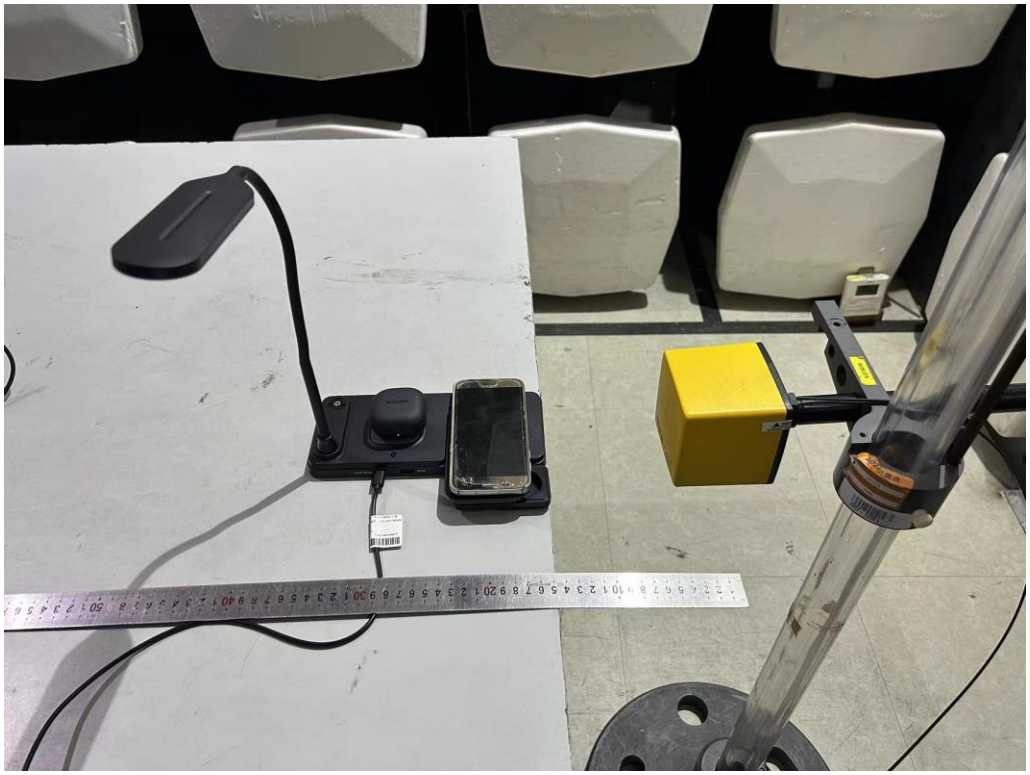

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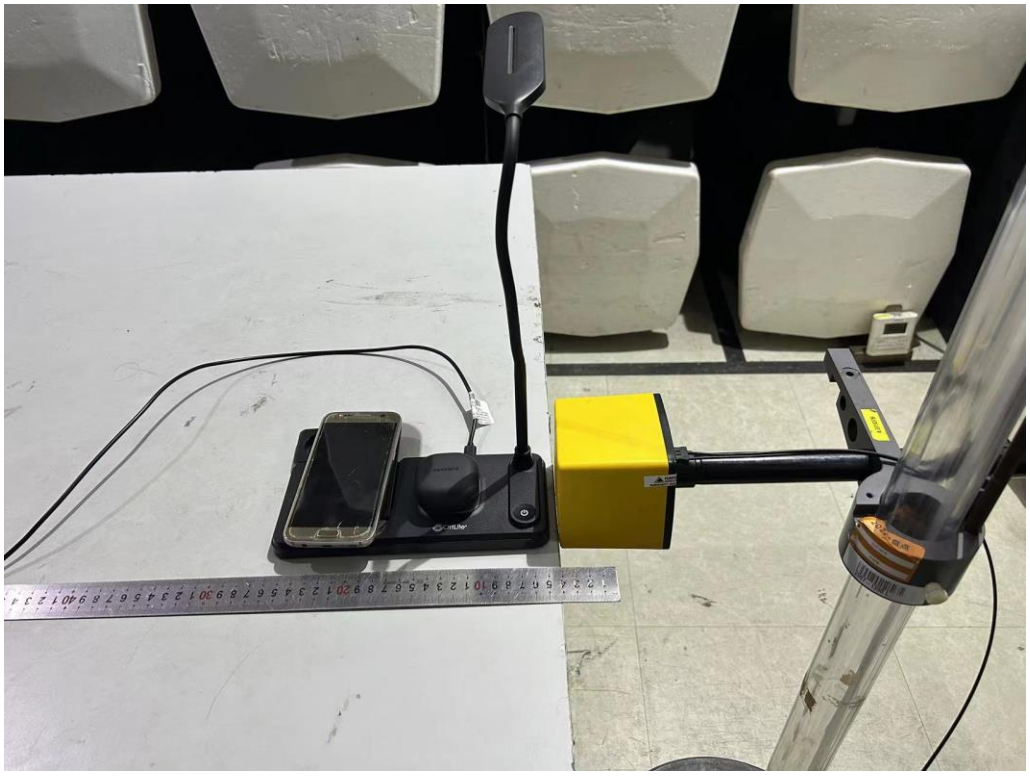

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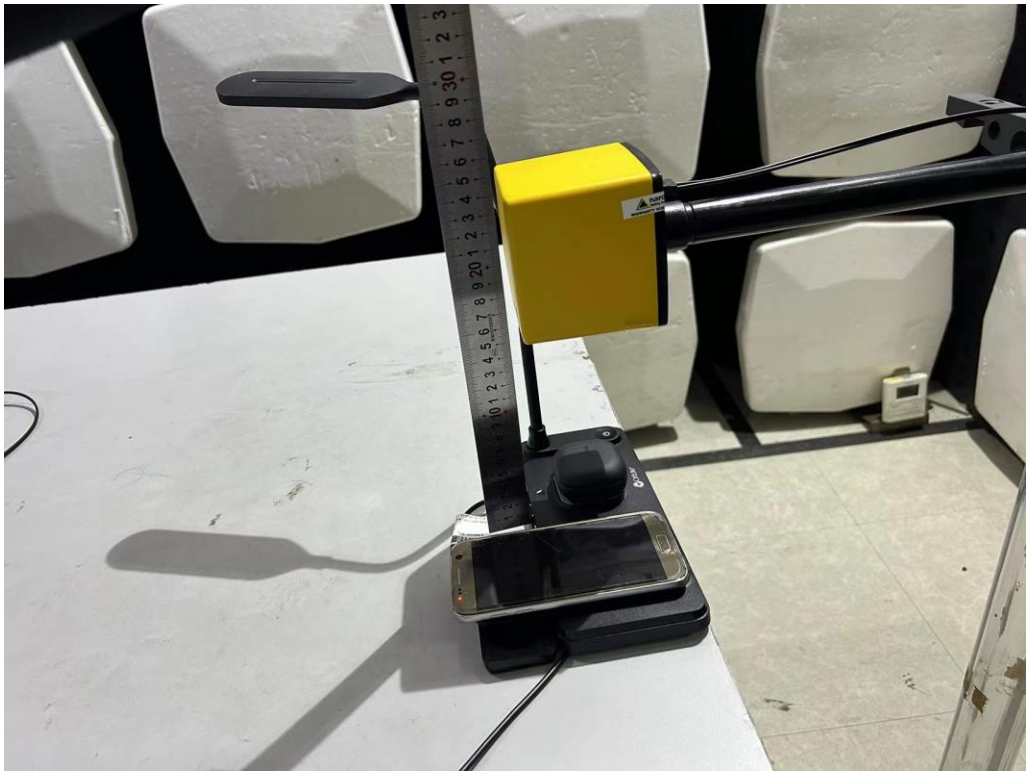

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