

OttLite Technologies, Inc.

TEST REPORT

SCOPE OF WORK

SAR Assessment– Q11

REPORT NUMBER

211221017SZN-002

ISSUE DATE

21 January 2022

[REVISED DATE]

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PAGES

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DOCUMENT CONTROL NUMBER

RF Exposure

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Test Report

Applicant : OttLite Technologies, Inc.
1715 N Westshore Blvd STE 950 Tampa,
FL 33607 United States

Sample Description

Product : LED table lamp
Model No. : Q11
Brand Name : OttLite
Electrical Rating : Input: DC 12V, 1.0A from adapter
Wireless charging output: DC5V, 1A

Date Received : 21 December 2021
Date Test Conducted : 05 January 2022 to 05 January 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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Engineer

Peter Kang
Senior Technical Supervisor
Date: 21 January 2022

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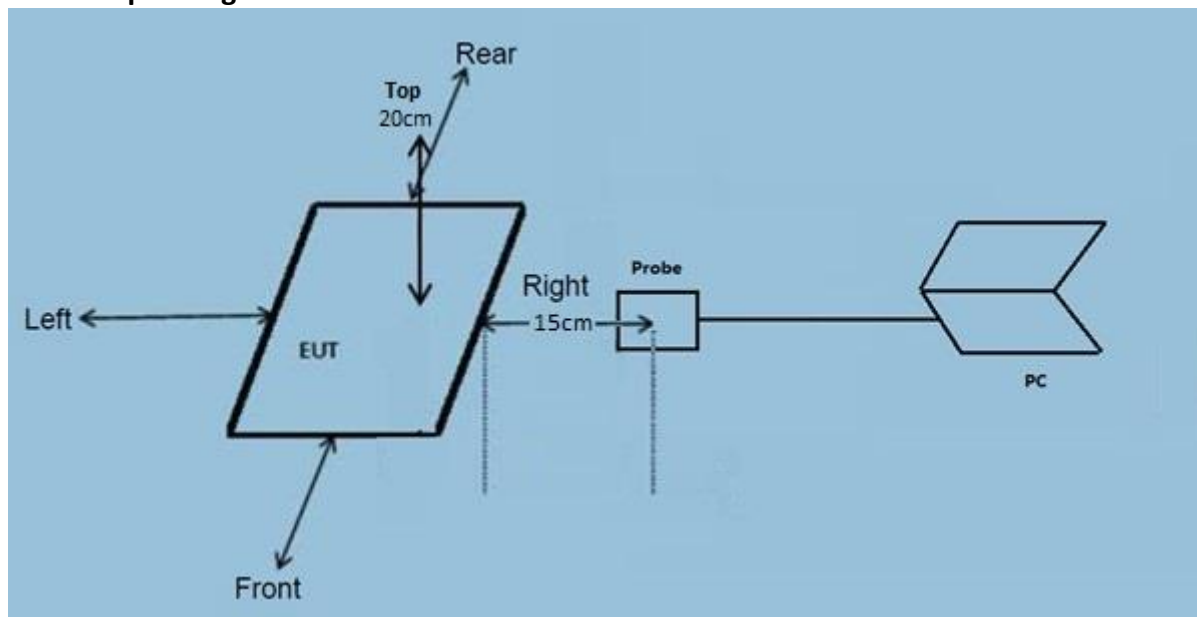
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Test Report

Test Setup Configuration



Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the wireless charger and the geometric centre of probe.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-50F	Narda	2021-07-20	2022-07-20

This product was tested in the following configuration:

Description	Manufacturer	Detail
Wireless charging simulation load (Provided by Intertek)	N/A	5W Simulation load
Adapter (Provided by Applicant)	DongGuan Toye Electronics Technology Co., Ltd	Model No: TY1200100A1mn Input: 100-240V~ 50/60Hz 0.4A Output: 12.0V=1.0A

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 AC 120V/60Hz during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. Only the worst-case data is 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:

Worst Case Operating Mode: Mode 2

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

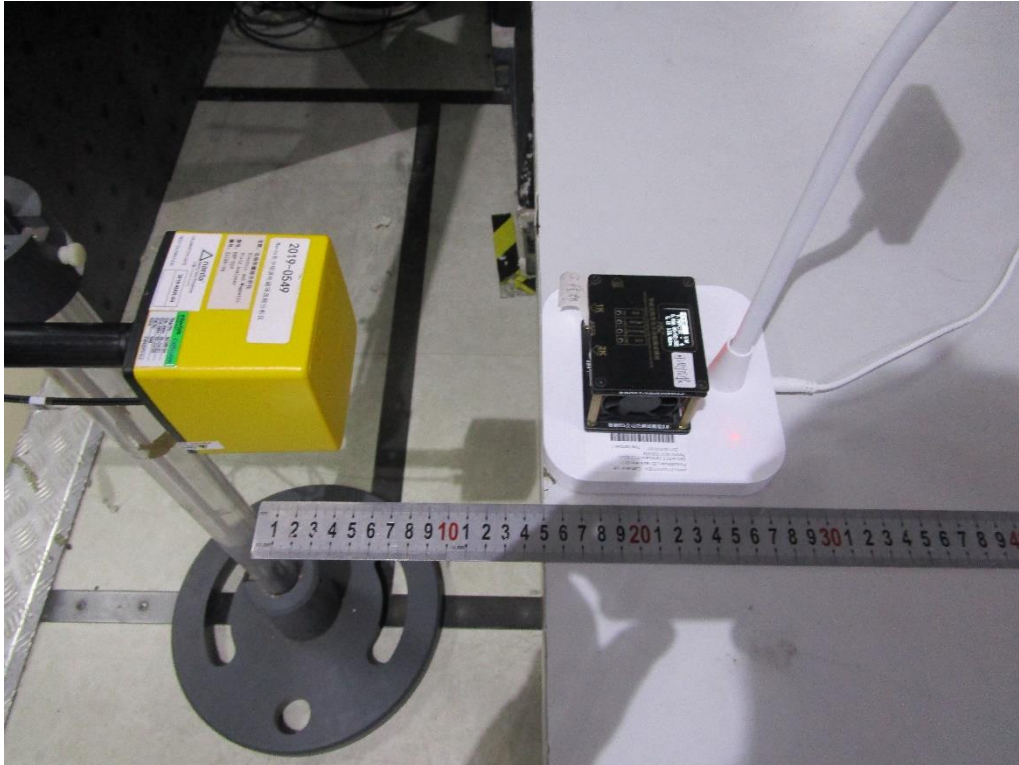
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.112-0.215	1% Battery Level	0.4159	0.3618	0.1452	0.2059	0.0387	1.63
0.112-0.215	50% Battery Level	0.4147	0.3605	0.1444	0.2052	0.0379	1.63
0.112-0.215	99% Battery Level	0.4156	0.3616	0.1448	0.2054	0.0382	1.63
0.112-0.215	Stand-by	0.4152	0.3612	0.1450	0.2054	0.0384	1.63

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

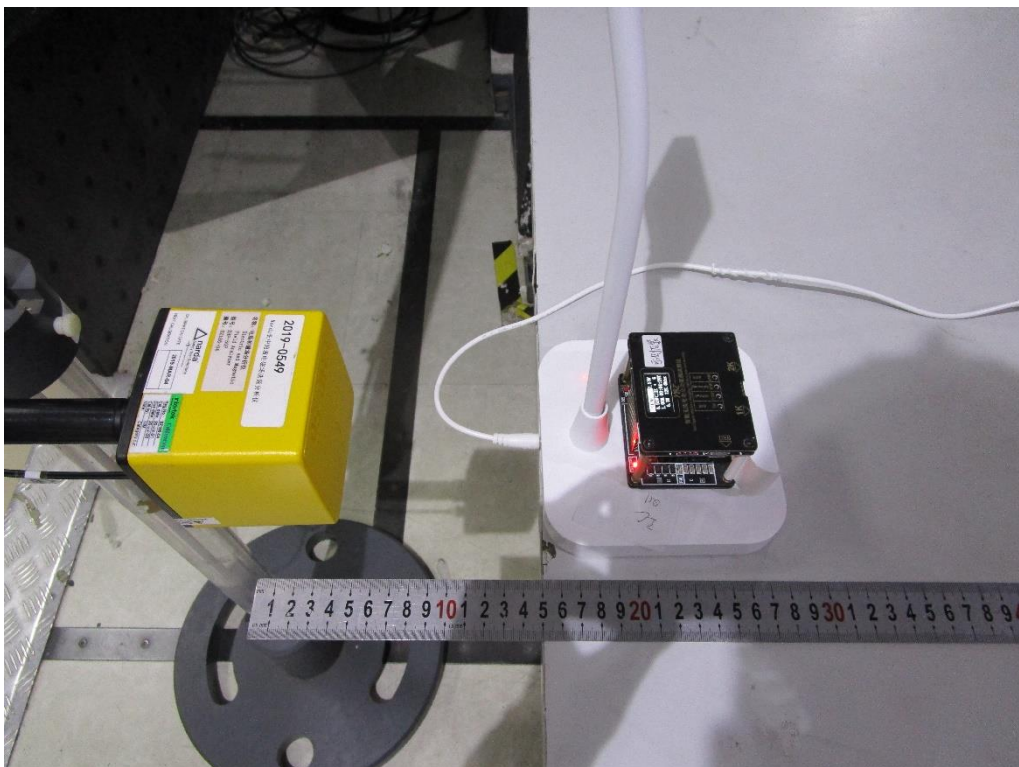
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.112-0.215	1% Battery Level	1.1675	0.5484	0.7107	0.9399	0.6629	614
0.112-0.215	50% Battery Level	1.1672	0.5480	0.7101	0.9390	0.6626	614
0.112-0.215	99% Battery Level	1.1668	0.5484	0.7106	0.9395	0.6622	614
0.112-0.215	Stand-by	1.1674	0.5482	0.7103	0.9394	0.6624	614

Configuration photo of the test:

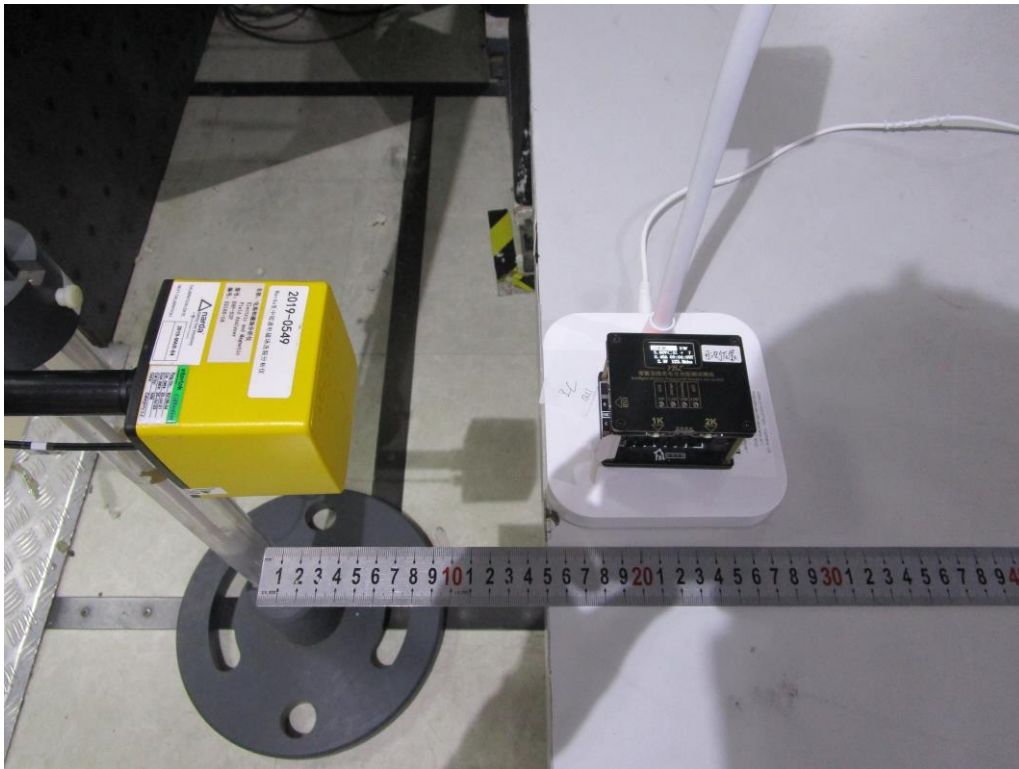
H-Field & E-Field Strength test photos



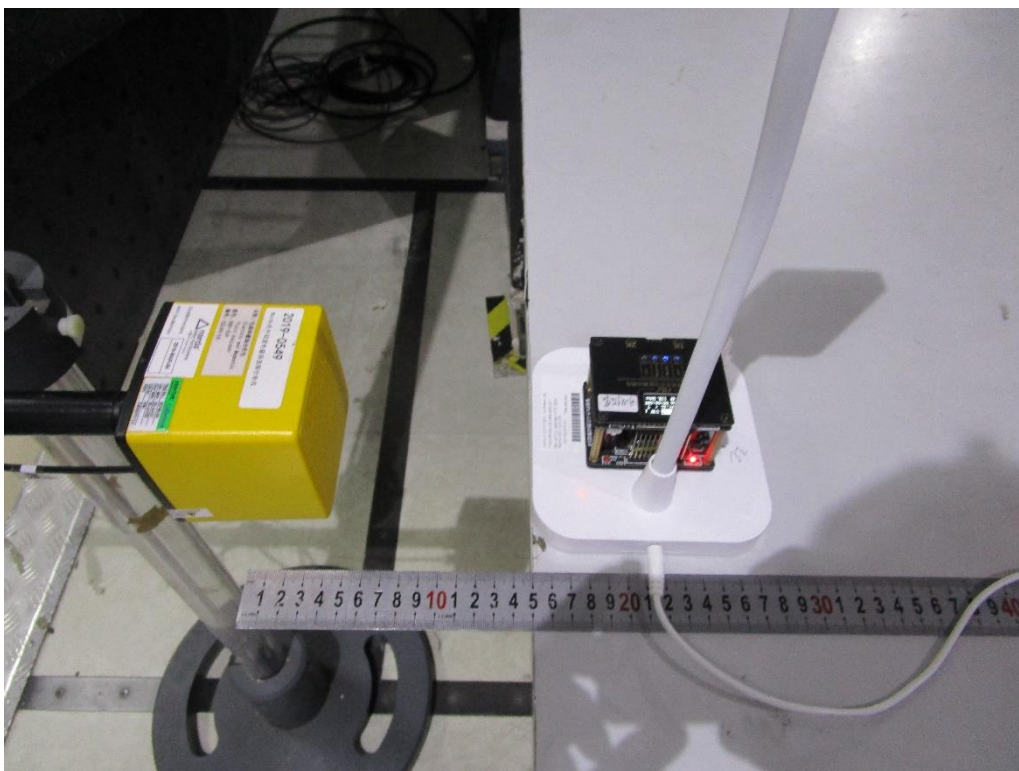
Front



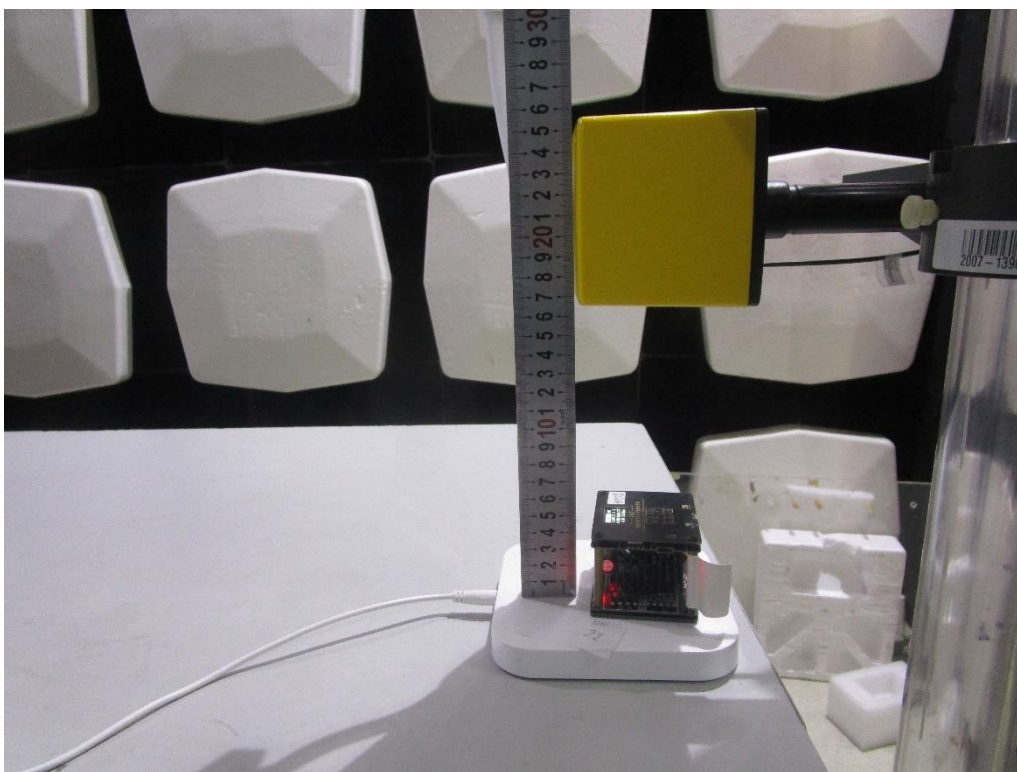
Rear



Left



Right



Top

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