OttLite Technologies, Inc.

TEST REPORT

SCOPE OF WORK
SAR Assessment– U8QAFSB3, U8QAFSB4

REPORT NUMBER
200107004SZN-002

ISSUE DATE	**[REVISED DATE]**
13 February 2020	[----------]

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DOCUMENT CONTROL NUMBER
RF Exposure

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Test Report

Applicant	:	OttLite Technologies, Inc. 220 West 7th Avenue STE 100 Tampa, FL 33602 United States
Sample Description		
Product	:	table lamp
Model No.	:	U8QAFSB3, U8QAFSB4
Brand Name	:	OttLite
Electrical Rating	:	Input: DC 12V, 2.5A for adapter Wireless charging output: DC5V, 1A USB port output: DC5V, 2.1A
Date Received	:	7 January 2020
Date Test Conducted	:	7 January 2020 to 17 January 2020
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
Test Result	:	Pass
Conclusion	:	When determining of test conclusion, measurement uncertainty of tests have been considered.

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Prepared and Checked By:

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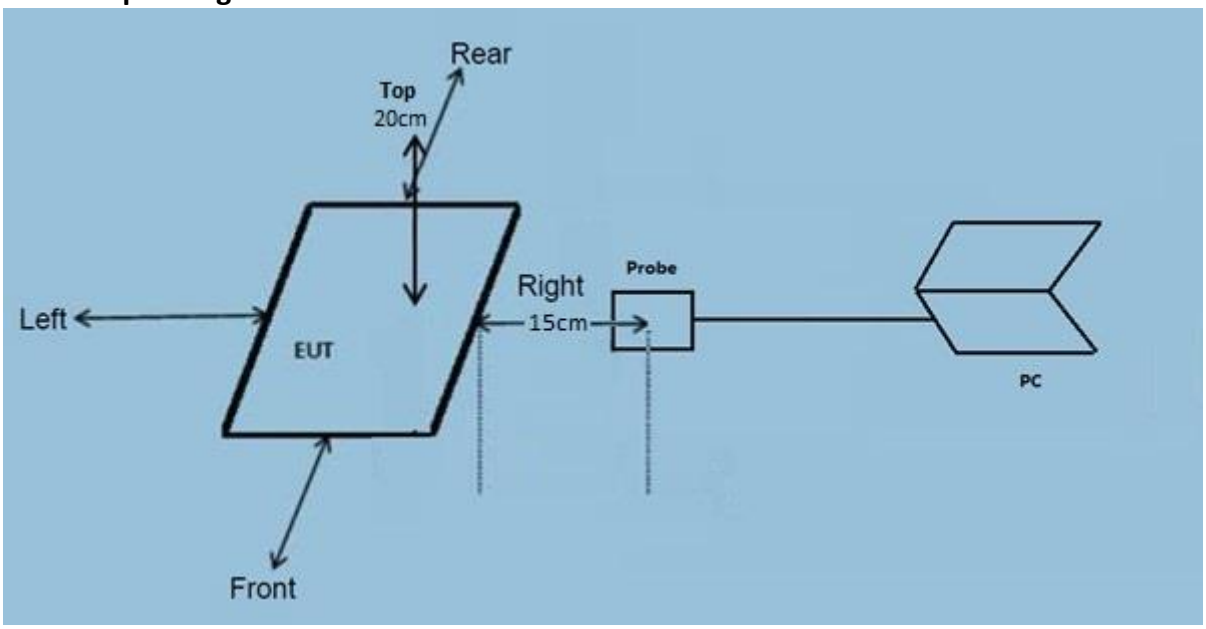
Engineer

Approved By:

Kidd Yang
Technical Supervisor
Date: 13 February 2020

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.
- The model U8QAFSB4 is the same as the model U8QAFSB3 in wireless charger module aspect. There are 4 differences between them: model number, power circuit board, clock circuit board and base lamp circuit board for marketing purpose. All tests are required to both designing schemes after evaluation, but only worst-case is reflected in the report.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-200A	Narda	2019-06-27	2020-06-27

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

Worst Case Model: U8QAFSB3
Test Result: Pass
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

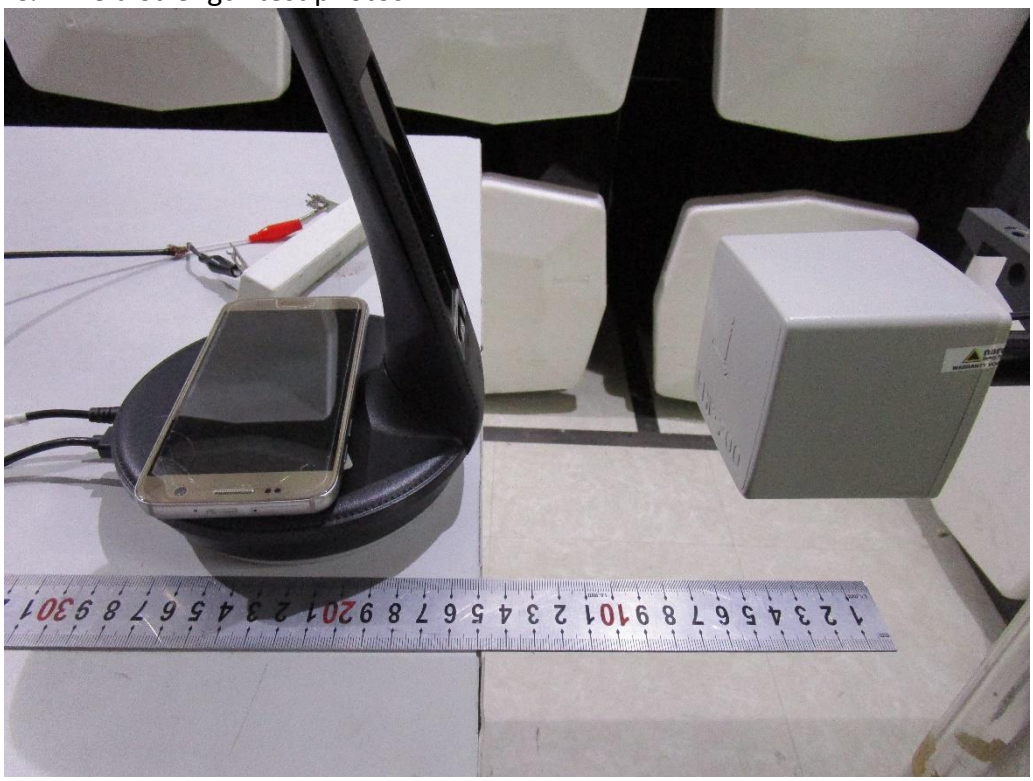
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.110-0.205	1% Battery Level	0.1838	0.4268	0.1142	0.0842	0.0906	1.63
0.110-0.205	50% Battery Level	0.1824	0.4262	0.1136	0.0834	0.0901	1.63
0.110-0.205	99% Battery Level	0.1831	0.4254	0.1138	0.0838	0.0904	1.63
0.110-0.205	Stand-by	0.0492	0.0443	0.0451	0.0457	0.0442	1.63

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

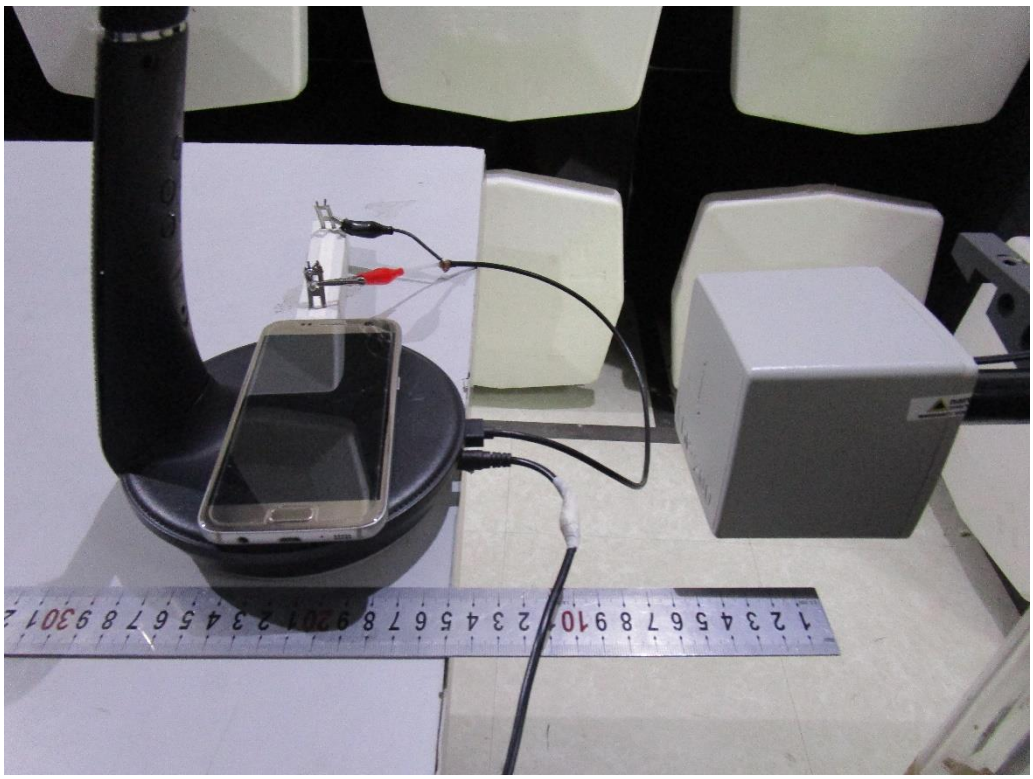
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.110-0.205	1% Battery Level	0.5982	1.2565	1.2411	1.0669	1.2511	614
0.110-0.205	50% Battery Level	0.5975	1.2563	1.2405	1.0661	1.2510	614
0.110-0.205	99% Battery Level	0.5979	1.2561	1.2409	1.0666	1.2511	614
0.110-0.205	Stand-by	0.408	0.451	0.421	0.468	0.412	614

Configuration photo of the test:

H-Field & E-Field Strength test photos



Front



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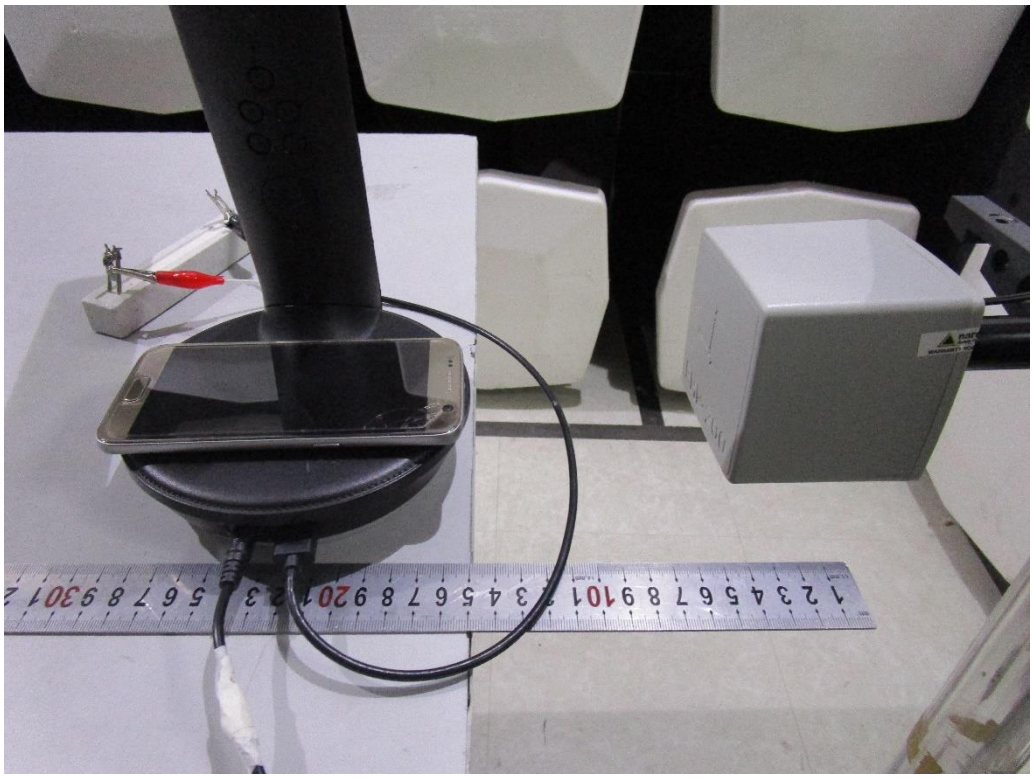

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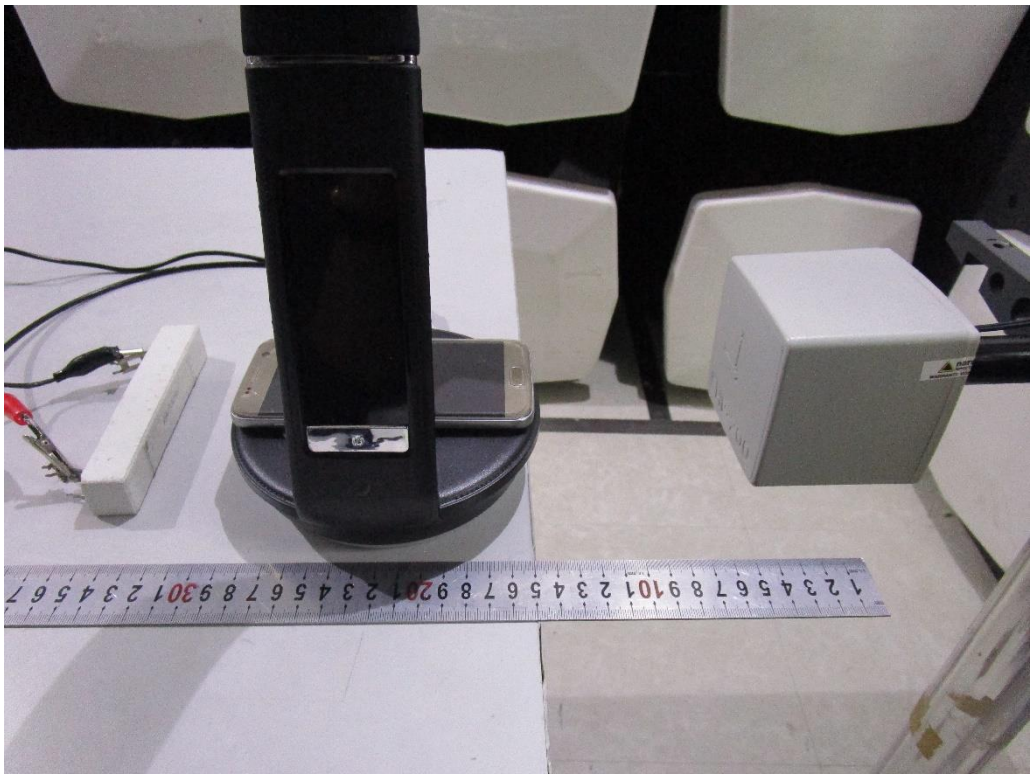

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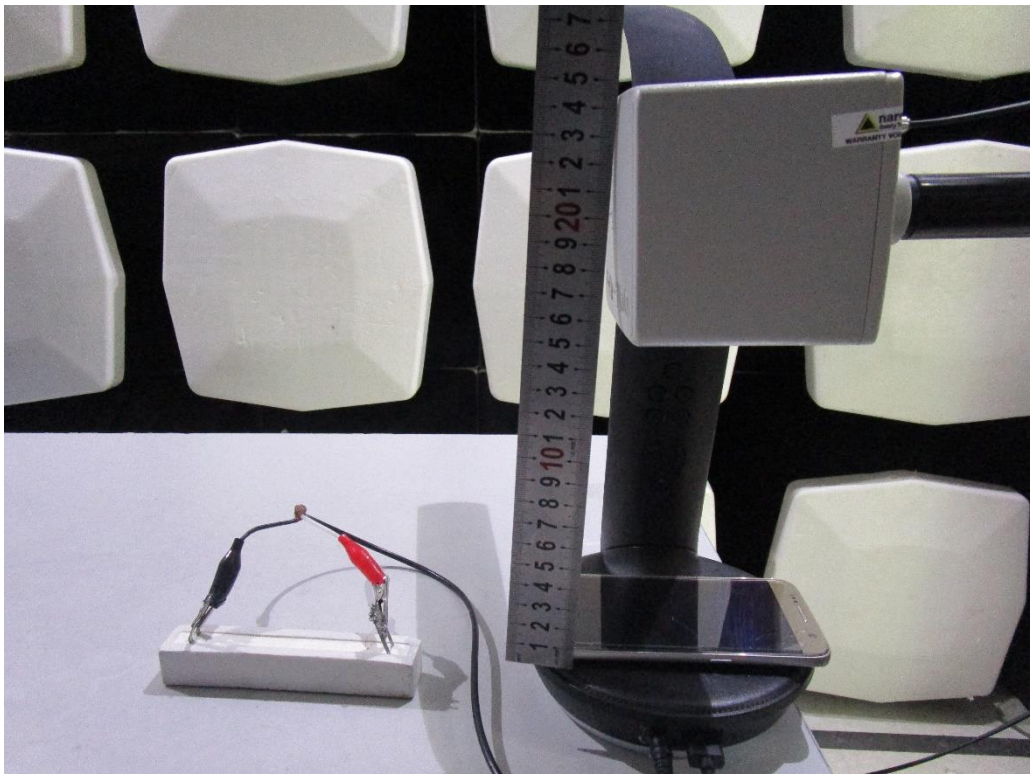

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