

# OttLite Technologies, Inc.

## TEST REPORT

### SCOPE OF WORK

SAR Assessment– B1FSA, B1FSB

### REPORT NUMBER

201203052SZN-002

### ISSUE DATE

21 December 2020

### [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 : table lamp  
Model No. : B1FSA, B1FSB  
Brand Name : OttLite  
Electrical Rating : Input: DC 12V, 2.5A from adapter  
Wireless charging output: DC5V, 1A  
USB port output: DC5V, 2.1A

Date Received : 3 December 2020  
Date Test Conducted : 3 December 2020 to 17 December 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:**

**Approved By:**

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**Engineer**

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**Kidd Yang**  
**Technical Supervisor**  
**Date: 21 December 2020**

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**Intertek Testing Services Shenzhen Ltd. Longhua Branch**

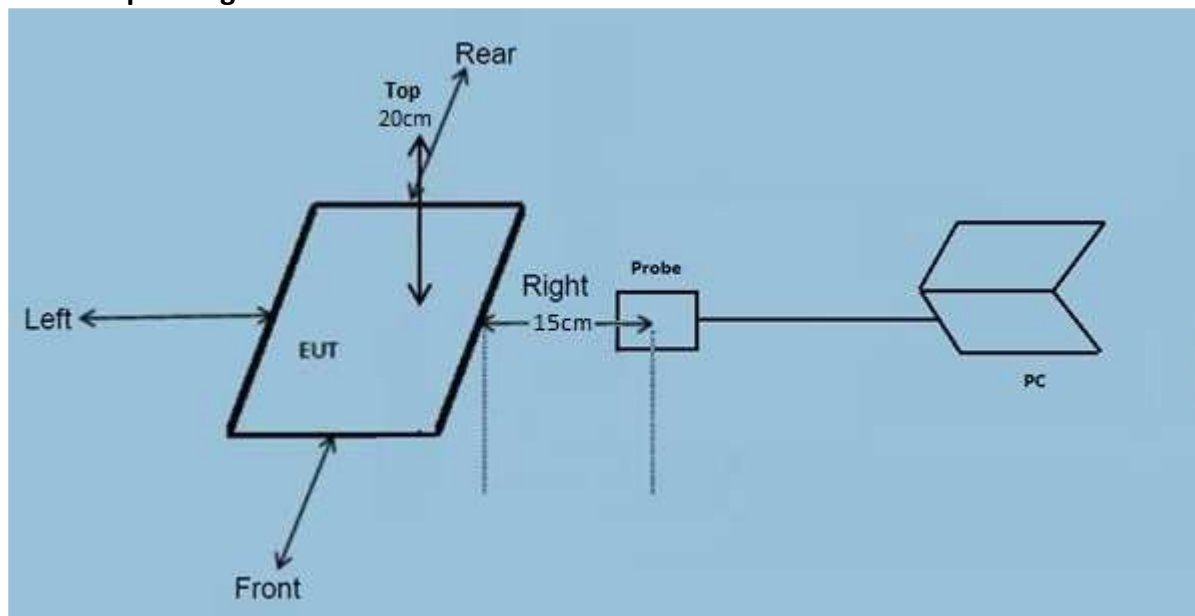
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## Test Report

### 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.
- The model B1FSB is the same as the model B1FSA in wireless charger module aspect. There are 4 differences between them: model number, power circuit board, display 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 this report.

### Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-200A	Narda	2020-08-03	2021-08-03

**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

Model: B1FSA

**Test Result:**

**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)
0.110-0.205	1% Battery Level	0.6330	0.4494	0.1647	0.1170	0.1263	1.63
0.110-0.205	50% Battery Level	0.6301	0.4348	0.1596	0.1156	0.1248	1.63
0.110-0.205	99% Battery Level	0.6290	0.4257	0.1580	0.1122	0.1221	1.63
0.110-0.205	Stand-by	0.0430	0.0430	0.0475	0.0432	0.0478	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)
0.110-0.205	1% Battery Level	1.3434	0.6206	0.7437	1.0888	0.7659	614
0.110-0.205	50% Battery Level	1.3396	0.6211	0.7411	1.0837	0.7653	614
0.110-0.205	99% Battery Level	1.3380	0.6199	0.7394	1.0796	0.7656	614
0.110-0.205	Stand-by	0.1382	0.1379	0.1382	0.1382	0.1379	614

Model: B1FSB

**Test Result:**
**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)
0.110-0.205	1% Battery Level	0.6337	0.4497	0.1656	0.1176	0.1267	1.63
0.110-0.205	50% Battery Level	0.6305	0.4352	0.1602	0.1158	0.1254	1.63
0.110-0.205	99% Battery Level	0.6294	0.4268	0.1588	0.1127	0.1212	1.63
0.110-0.205	Stand-by	0.0432	0.0432	0.0478	0.0432	0.0478	1.63

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

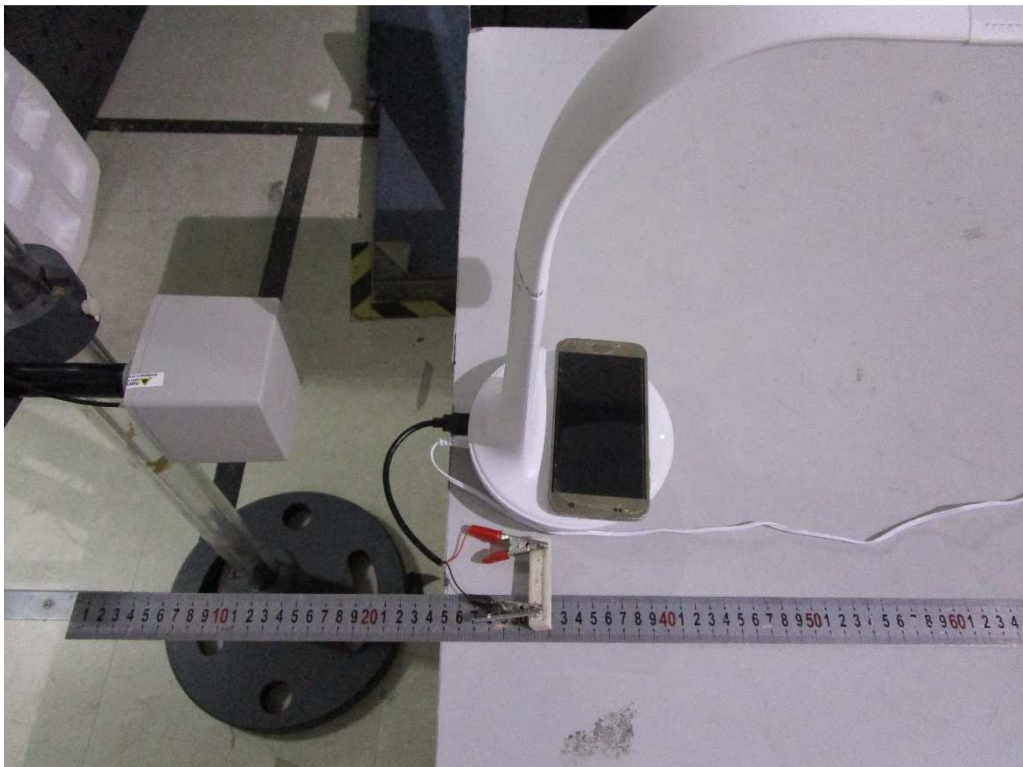
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.110-0.205	1% Battery Level	1.3445	0.6225	0.7446	1.0891	0.7668	614
0.110-0.205	50% Battery Level	1.3401	0.6205	0.7421	1.0842	0.7657	614
0.110-0.205	99% Battery Level	1.3385	0.6189	0.7398	1.0798	0.7652	614
0.110-0.205	Stand-by	0.1379	0.1379	0.1382	0.1382	0.1379	614

**Configuration photo of the test:**

**H-Field & E-Field Strength test photos**

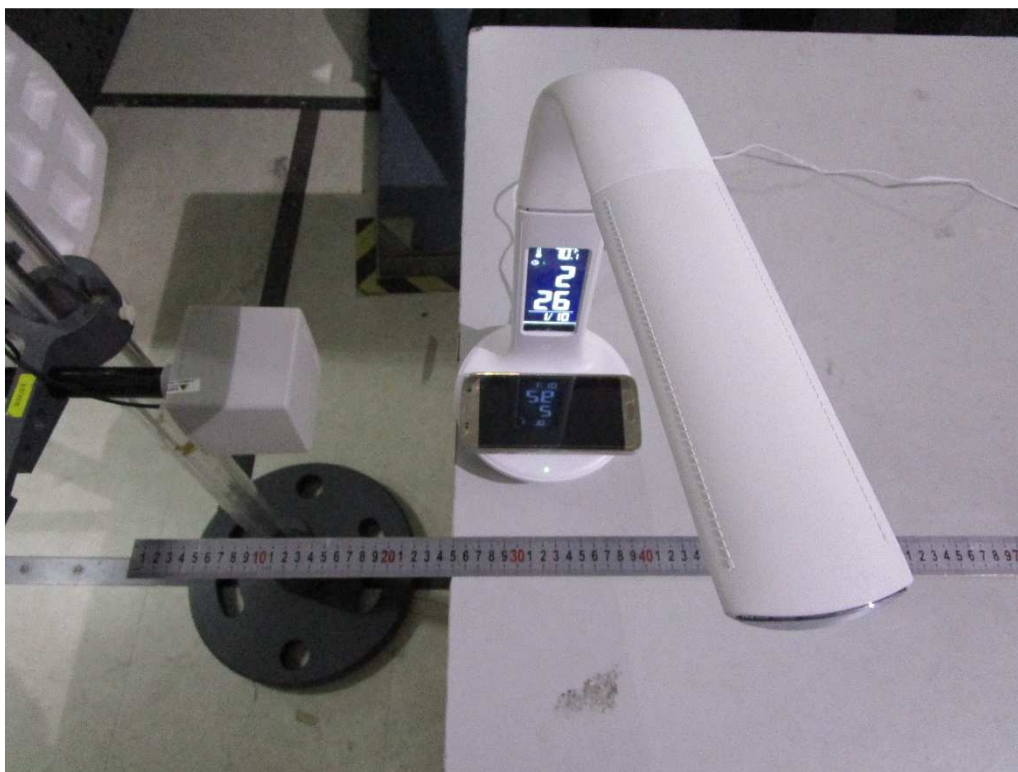


Front

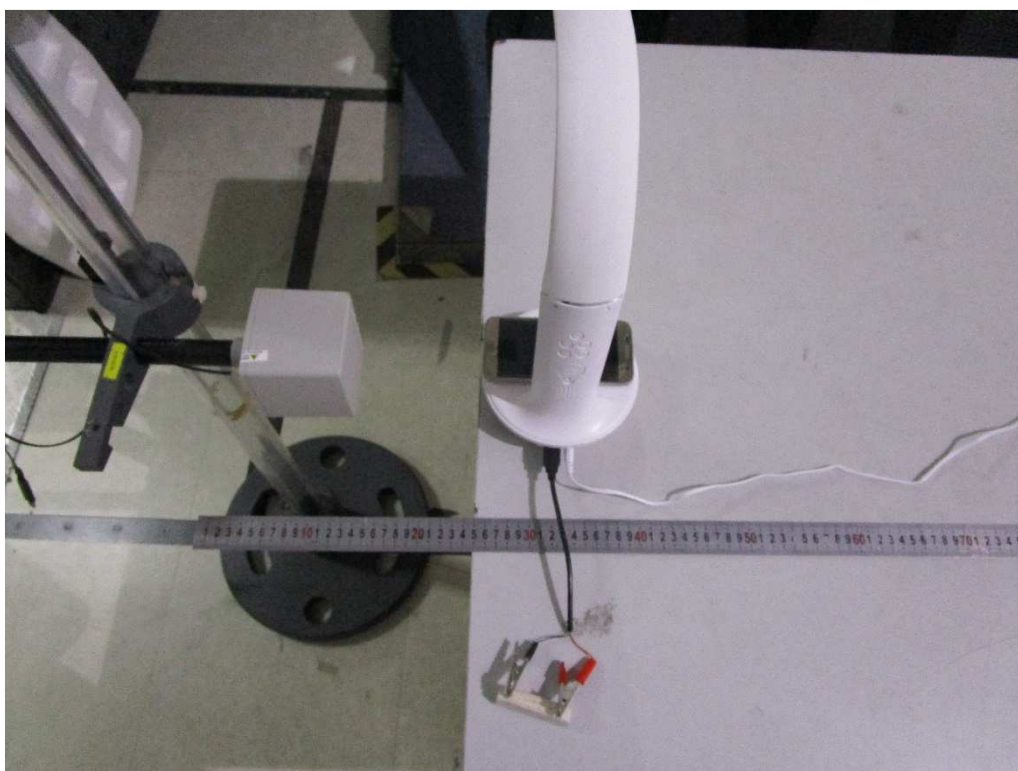


Rear

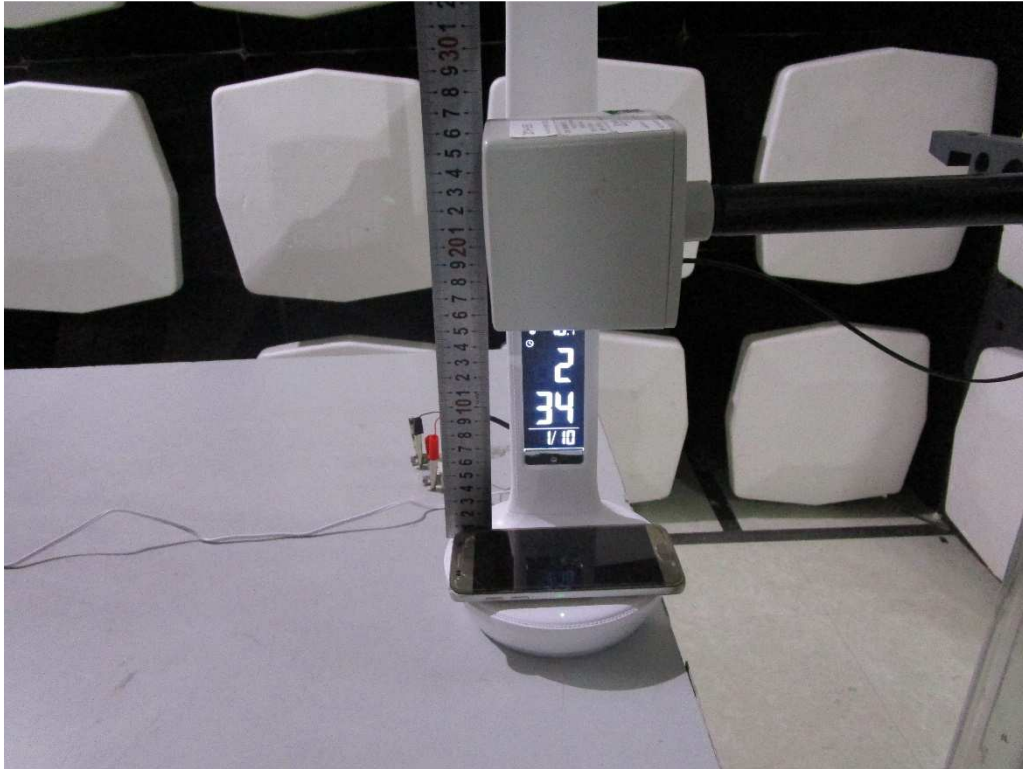




Left



Right



Top

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