

OttLite Technologies, Inc.

# TEST REPORT

**SCOPE OF WORK**

SAR ASSESSMENT– MA70M

**REPORT NUMBER**

181213013SZN-003

**ISSUE DATE**

21 January 2019

**[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.

Number: 181213013SZN-003

1715 N Westshore Blvd|Suite 950| Tampa, FL  
33607

Date: 21 January 2019

**Sample Description**Product : LED DESK LAMP  
Model No. : MA70MBrand Name : OttLite  
Electrical Rating : Input: AC100-240V, 50/60Hz, 1A; Output: DC 12V, 2500mA for adapter  
DC5V, 1A output by wireless charger

Date Received : 13 December 2018

Date Test Conducted : 13 December 2018 to 27 December 2018

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.

\*\*\*\*\* End of Page \*\*\*\*\*

**Prepared and Checked By:****Approved By:**

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**Jeff Liang**  
**Engineer**

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**Kidd Yang**  
**Technical Supervisor**  
**Date: 21 January 2019**

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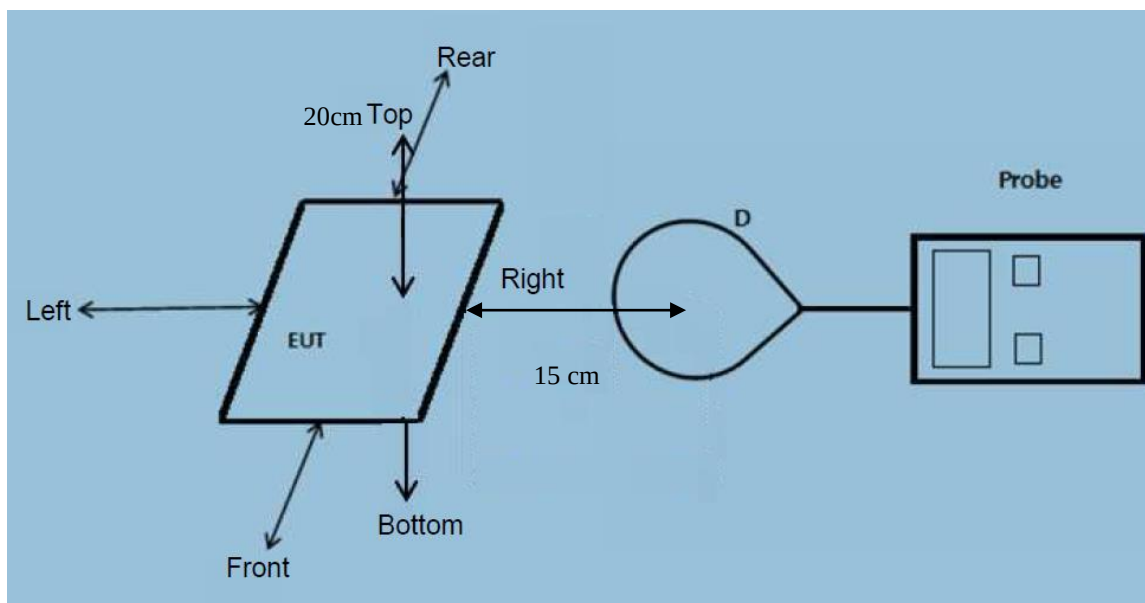
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## Test Report

### 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

| Name of instrument    | Model          | Manufacturer | Cal. Date | Due Date  |
|-----------------------|----------------|--------------|-----------|-----------|
| Exposure Level Tester | ELT-4002304/03 | Narda        | 21-Mar-18 | 21-Mar-19 |
| Field Probe           | HI-6105        | ETS          | 21-Mar-18 | 21-Mar-19 |
| Laser Data Interface  | HI-6113        | ETS          | 21-Mar-18 | 21-Mar-19 |

# TEST 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:

**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           | 10% Battery Level  | 0.041                      | 0.037                     | 0.042                     | 0.039                      | 0.035                    | 1.63         |
| 0.110-0.205           | 50% Battery Level  | 0.042                      | 0.034                     | 0.041                     | 0.036                      | 0.032                    | 1.63         |
| 0.110-0.205           | 90% Battery Level  | 0.040                      | 0.036                     | 0.038                     | 0.038                      | 0.034                    | 1.63         |
| 0.110-0.205           | Stand-by           | 0.039                      | 0.032                     | 0.035                     | 0.035                      | 0.033                    | 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           | 10% Battery Level  | 0.411                      | 0.404                     | 0.427                     | 0.394                      | 0.377                    | 614          |
| 0.110-0.205           | 50% Battery Level  | 0.408                      | 0.400                     | 0.415                     | 0.382                      | 0.375                    | 614          |
| 0.110-0.205           | 90% Battery Level  | 0.402                      | 0.411                     | 0.406                     | 0.377                      | 0.370                    | 614          |
| 0.110-0.205           | Stand-by           | 0.385                      | 0.381                     | 0.395                     | 0.370                      | 0.367                    | 614          |

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