



Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

TEST REPORT

Report Reference No......: **GTS20191028006-1-1-2**

FCC ID..... : **2ARD3-LL127**

Compiled by
(position+printed name+signature)..: File administrators Jimmy Wang

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Approved by
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Date of issue.....: Oct. 23, 2019

Representative Laboratory Name.: **Shenzhen Global Test Service Co., Ltd.**

Address.....: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name.....: **LEXON**

Address: 91 avenue Jean-Baptiste Clement 92100 Boulogne FRANCE

Test specification

Standard.....: **FCC Rules and Regulations part 2.1091**
KDB680106 D01v03

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF.....: Dated 2014-12

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Test item description

Trade Mark: LEXON

Manufacturer: LEXON

Model/Type reference.....: LL127

Listed Models: N/A

Modulation Type.....: ASK

Operation Frequency.....: From 110KHz~205KHz

Rating: DC 3.7V from battery charged by DC 5V

Result.....: **PASS**

TEST REPORT

| | | |
|--------------------------|-----------------------------|---------------|
| Test Report No. : | GTS20191028006-1-1-2 | Oct. 23, 2019 |
| | | Date of issue |

Equipment under Test : BALI WIRELESS CHARGING PAD WITH BATTERY

Model /Type : LL127

Listed Models : N/A

Applicant : **LEXON**

Address : 91 avenue Jean-Baptiste Clement 92100 Boulogne FRANCE

Manufacturer : **LEXON**

Address : 91 avenue Jean-Baptiste Clement 92100 Boulogne FRANCE

| | |
|---------------------|-------------|
| Test Result: | PASS |
|---------------------|-------------|

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 SUMMARY

1.1 General Remarks

| | | |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Oct. 12, 2019 |
| | | |
| Testing commenced on | : | Oct. 13, 2019 |
| | | |
| Testing concluded on | : | Oct. 22, 2019 |

1.2 Product Description

| | |
|---|--|
| Product Name: | BALI WIRELESS CHARGING PAD WITH BATTERY |
| Model/Type reference: | LL127 |
| Power supply: | DC 3.7V from battery charged by DC 5V |
| Adapter(Auxiliary test Provided by the laborator) | Mode:EP-TA20CBC Input:AC100-240V-50/60Hz, 0.5A Output:DC 5V,2A |
| Wireless Charger | |
| Antenna Type | Coil Antenna |
| Antenna Gain | 1.0dBi |
| Operation frequency | 110KHz~205KHz |
| Modulation Type | ASK |
| Rated Output power | 10W |

1.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

Charging and communication mode

| Test Conditions | Description | Exposure conditions | |
|-----------------|--|--|------------|
| TM1 | AC/DC Adapter + EUT + Mobile Phone (Battery Status: <1%) | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable | Record |
| TM2 | AC/DC Adapter + EUT + Mobile Phone (Battery Status: <50%) | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable | Record |
| TM3 | AC/DC Adapter + EUT + Mobile Phone (Battery Status: 100%) | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable | Record |
| TM4 | Charge from PC + EUT + Mobile Phone (Battery Status: <1%) | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable | Pre-tested |
| TM5 | Charge from PC + EUT + Mobile Phone (Battery Status: <50%) | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable | Pre-tested |
| TM6 | Charge from PC + EUT + Mobile Phone (Battery Status: 100%) | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable | Pre-tested |
| TM7 | EUT + Mobile Phone (Battery Status: <1%) | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable | Record |
| TM8 | EUT + Mobile Phone (Battery Status: <50%) | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable | Record |
| TM9 | EUT + Mobile Phone (Battery Status: 100%) | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable | Record |

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

1.4 Modifications

No modifications were implemented to meet testing criteria.

2 TEST ENVIRONMENT

2.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 165725

Shenzhen Global Test Service Co.,Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 4758.01

Shenzhen Global Test Service Co.,Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

CNAS-Lab Code: L8169

Shenzhen Global Test Service Co.,Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories. Date of Registration: Dec. 11, 2015. Valid time is until Dec. 10, 2024.

2.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|-----------------------|--------------|
| Temperature: | 15-35 ° C |
| Humidity: | 30-60 % |
| Atmospheric pressure: | 950-1050mbar |

2.4 Summary of measurement results

| Test Item | Result |
|-----------------------------------|-----------|
| Electric Field Strength (E) (V/m) | Compliant |
| Magnetic Field Strength (H) (A/m) | Compliant |

2.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

| Test | Range | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.10 dB | (1) |
| Radiated Emission | 1~18GHz | 4.32 dB | (1) |
| Radiated Emission | 18-40GHz | 5.54 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.12 dB | (1) |

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.6 Equipments Used during the Test

| Description | Brand | Model No. | Frequency Range | Calibrated Date | Calibrated Until |
|-----------------------|-----------|-----------|-----------------|-----------------|------------------|
| Broadband Field Meter | NARDA | NBM-550 | - | Dec. 28, 2018 | Dec. 27, 2019 |
| Magnetic Field Meter | NARDA | ELT-400 | 1 – 400kHz | Dec. 28, 2018 | Dec. 27, 2019 |
| Magnetic Probe | NARDA | HF-3061 | 300kHz – 30MHz | Dec. 28, 2018 | Dec. 27, 2019 |
| Magnetic Probe | NARDA | HF-0191 | 27 – 1000MHz | Dec. 28, 2018 | Dec. 27, 2019 |
| Broadband Field Meter | NARDA | NBM-550 | - | Dec. 28, 2018 | Dec. 27, 2019 |
| Electric Field Meter | COMBINOVA | EFM 200 | 5Hz – 400kHz | Dec. 28, 2018 | Dec. 27, 2019 |
| E-Field Probe | NARDA | EF-0391 | 100kHz – 3GHz | Dec. 28, 2018 | Dec. 27, 2019 |
| E-Field Probe | NARDA | EF-6091 | 100MHz – 60GHz | Dec. 28, 2018 | Dec. 27, 2019 |

Note: The Cal.Interval was one year.

3 TEST CONDITIONS AND RESULTS

3.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

According KDB 680106 D01 RF Exposure Wireless Charging App v03

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz) | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure | | | | |
| 0.3 – 3.0 | 614 | 1.63 | (100) * | 6 |
| 3.0 – 30 | 1842/f | 4.89/f | (900/f)* | 6 |
| 30 – 300 | 61.4 | 0.163 | 1.0 | 6 |
| 300 – 1500 | / | / | f/300 | 6 |
| 1500 – 100,000 | / | / | 5 | 6 |

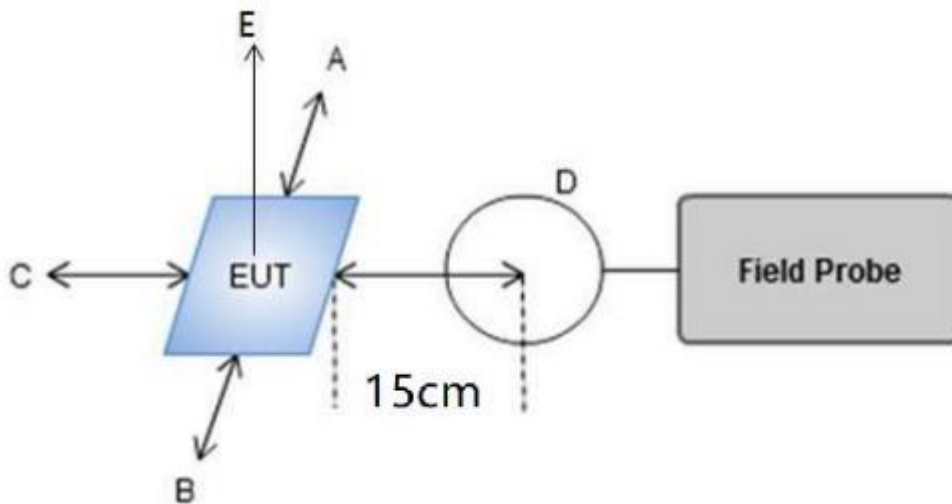
Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz) | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure | | | | |
| 0.3 – 3.0 | 614 | 1.63 | (100) * | 30 |
| 3.0 – 30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30 – 300 | 27.5 | 0.073 | 0.2 | 30 |
| 300 – 1500 | / | / | f/1500 | 30 |
| 1500 – 100,000 | / | / | 1.0 | 30 |

F=frequency in MHz

*=Plane-wave equivalent power density

3.3 Test Setup



Note: A, B, C, D, E, F for six surfaces of the product.

3.4 Measurement Procedure

For mobile RF exposure

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric center of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- The EUT were measured according to the dictates of KDB 680106D01v03.

For portable RF exposure

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance (0cm) which is between the edge of the charger and the geometric center of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- Repeated measured (a) – (d) at measure distance 5cm, 10cm and 15cm.
- The EUT were measured according to the dictates of KDB 680106D01v03.

3.5 Test Result of E and H field Strength

3.5.1 For mobile exposure

E-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

| Test Conditions | Charging Battery Level | Frequency Range (MHz) | Measured E-Field Strength Values (V/m) | | | | | FCC E-Field Strength 50% Limits (V/m) | FCC E-Field Strength Limits (V/m) |
|-----------------|------------------------|-----------------------|--|-----------------|-----------------|-----------------|-----------------|---------------------------------------|-----------------------------------|
| | | | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | | |
| TM1 | 1% | 0.135 | 3.74 | 3.68 | 3.85 | 3.54 | 4.05 | 307.0 | 614.0 |
| TM2 | 50% | 0.135 | 3.61 | 3.54 | 3.66 | 3.59 | 3.74 | 307.0 | 614.0 |
| TM3 | 99% | 0.135 | 3.15 | 3.10 | 3.20 | 3.24 | 3.55 | 307.0 | 614.0 |

H-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

| Test Conditions | Charging Battery Level | Frequency Range (MHz) | Measured E-Field Strength Values (A/m) | | | | | FCC H-Field Strength 50% Limits (A/m) | FCC H-Field Strength Limits (A/m) |
|-----------------|------------------------|-----------------------|--|-----------------|-----------------|-----------------|-----------------|---------------------------------------|-----------------------------------|
| | | | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | | |
| TM1 | 1% | 0.135 | 0.274 | 0.285 | 0.279 | 0.266 | 0.357 | 0.815 | 1.63 |
| TM2 | 50% | 0.135 | 0.233 | 0.241 | 0.224 | 0.245 | 0.331 | 0.815 | 1.63 |
| TM3 | 99% | 0.135 | 0.205 | 0.210 | 0.209 | 0.215 | 0.317 | 0.815 | 1.63 |

H-Field Strength at 20cm from the top surface of the EUT

| Test Conditions | Charging Battery Level | Frequency Range (MHz) | Measured E-Field Strength Values (A/m) | FCC H-Field Strength 50% Limits (A/m) | FCC H-Field Strength Limits (A/m) |
|-----------------|------------------------|-----------------------|--|---------------------------------------|-----------------------------------|
| | | | Test Position E | | |
| TM1 | 1% | 0.135 | 0.310 | 0.815 | 1.63 |
| TM2 | 50% | 0.135 | 0.268 | 0.815 | 1.63 |
| TM3 | 99% | 0.135 | 0.243 | 0.815 | 1.63 |

3.5.2 For portable exposure

E-Field Strength at 0/5/10/15 cm from the edges surrounding the EUT

| Test Conditions | Charging Battery Level | Measured Distance (cm) | Frequency Range (MHz) | Measured E-Field Strength Values (V/m) | | | | | | FCC E-Field Strength Limits (V/m) |
|-----------------|------------------------|------------------------|-----------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------------|
| | | | | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F | |
| TM7 | 1% | 0 | 0.135 | 10.52 | 10.65 | 10.58 | 10.60 | 12.37 | 12.39 | 614.0 |
| TM8 | 50% | 0 | 0.135 | 10.21 | 10.15 | 10.24 | 10.12 | 12.05 | 12.10 | 614.0 |
| TM9 | 99% | 0 | 0.135 | 9.38 | 9.50 | 9.45 | 9.35 | 11.25 | 11.36 | 614.0 |
| TM7 | 1% | 5 | 0.135 | 8.45 | 8.30 | 8.55 | 8.47 | 9.85 | 9.98 | 614.0 |
| TM8 | 50% | 5 | 0.135 | 8.12 | 8.13 | 8.30 | 8.15 | 9.47 | 9.50 | 614.0 |
| TM9 | 99% | 5 | 0.135 | 7.87 | 7.64 | 7.92 | 7.79 | 9.10 | 9.16 | 614.0 |
| TM7 | 1% | 10 | 0.135 | 4.68 | 4.71 | 4.55 | 4.47 | 5.78 | 5.90 | 614.0 |
| TM8 | 50% | 10 | 0.135 | 4.45 | 4.52 | 4.32 | 4.23 | 5.45 | 5.52 | 614.0 |
| TM9 | 99% | 10 | 0.135 | 4.42 | 4.36 | 4.24 | 4.10 | 5.21 | 5.14 | 614.0 |
| TM7 | 1% | 15 | 0.135 | 3.21 | 3.15 | 3.32 | 3.29 | 4.35 | 4.22 | 614.0 |
| TM8 | 50% | 15 | 0.135 | 3.57 | 3.46 | 3.54 | 3.44 | 3.89 | 3.79 | 614.0 |
| TM9 | 99% | 15 | 0.135 | 3.20 | 3.21 | 3.17 | 3.20 | 3.59 | 3.70 | 614.0 |

H-Field Strength at 0/5/10/15 cm from the edges surrounding the EUT

| Test Conditions | Charging Battery Level | Measured Distance (cm) | Frequency Range (MHz) | Measured H-Field Strength Values (A/m) | | | | | | FCC H-Field Strength Limits (A/m) |
|-----------------|------------------------|------------------------|-----------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------------|
| | | | | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F | |
| TM7 | 1% | 0 | 0.135 | 0.885 | 0.876 | 0.881 | 0.866 | 1.142 | 1.138 | 1.63 |
| TM8 | 50% | 0 | 0.135 | 0.855 | 0.832 | 0.842 | 0.834 | 1.087 | 1.055 | 1.63 |
| TM9 | 99% | 0 | 0.135 | 0.814 | 0.788 | 0.804 | 0.793 | 0.975 | 0.765 | 1.63 |
| TM7 | 1% | 5 | 0.135 | 0.587 | 0.574 | 0.590 | 0.562 | 0.788 | 0.754 | 1.63 |
| TM8 | 50% | 5 | 0.135 | 0.535 | 0.529 | 0.541 | 0.515 | 0.736 | 0.719 | 1.63 |
| TM9 | 99% | 5 | 0.135 | 0.505 | 0.487 | 0.510 | 0.479 | 0.701 | 0.698 | 1.63 |
| TM7 | 1% | 10 | 0.135 | 0.366 | 0.380 | 0.374 | 0.385 | 0.474 | 0.468 | 1.63 |
| TM8 | 50% | 10 | 0.135 | 0.325 | 0.336 | 0.330 | 0.340 | 0.425 | 0.417 | 1.63 |
| TM9 | 99% | 10 | 0.135 | 0.289 | 0.305 | 0.291 | 0.311 | 0.389 | 0.378 | 1.63 |
| TM7 | 1% | 15 | 0.135 | 0.274 | 0.268 | 0.277 | 0.284 | 0.366 | 0.357 | 1.63 |
| TM8 | 50% | 15 | 0.135 | 0.225 | 0.215 | 0.229 | 0.235 | 0.315 | 0.305 | 1.63 |
| TM9 | 99% | 15 | 0.135 | 0.201 | 0.198 | 0.205 | 0.217 | 0.298 | 0.287 | 1.63 |

3.6 Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

| Requirements of KDB 680106 D01 | Yes / No | Description |
|--|----------|--|
| Power transfer frequency is less than 1 MHz | Yes | The device operate in the frequency range 110KHz~205KHz |
| Output power from each primary coil is less than 15 watts | Yes | The maximum output power for each primary coil is 10W. |
| The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils. | Yes | The transfer system includes only one primary coils. |
| Client device is placed directly in contact with the transmitter. | Yes | Client device is placed directly in contact with the transmitter. |
| Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). | No | Mixed mobile and portable exposure conditions |
| The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. | No | Not only just for mobile exposure condition, this sample used at mixed mobile and portable exposure condition. |

3.7 Conclusion

A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for portable exposure and 20 cm to the antenna for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106 and confirmed by the FCC according to KDB Inquire.

4 Test Setup Photos of the EUT



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