



# MPE TEST REPORT

**Applicant** LEXON  
**FCC ID** 2ARD3-LA128  
**Product** POWERSOUND  
**Brand** LEXON  
**Model** LA128  
**Report No.** R2103A0169-M1  
**Issue Date** March 5, 2021

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Part 1 Subpart I / FCC Part 2 Subpart J**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Handwritten signature of Yu Wang in black ink.

*Prepared by: Yu Wang*

Handwritten signature of Guangchang Fan in black ink.

*Approved by: Guangchang Fan*

---

**TA Technology (Shanghai) Co., Ltd.**

No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000



## Table of Contents

1	Test Laboratory.....	3
1.1	Notes of the Test Report.....	3
1.2	Test facility.....	3
1.3	Testing Location.....	3
1.4	Laboratory Environment.....	4
2	Statement of Compliance.....	5
3	Description of Equipment under Test.....	6
4	Test Specification, Methods and Procedures.....	7
5	Equipment Under Test.....	8
5.1	Description of EUT.....	8
5.2	Worst-Case Configuration.....	8
5.3	KDB 680106 D01 v03 Section 5.b) Equipment Approval Considerations.....	8
5.4	Description of Test Setup.....	9
6	Test and Measurement Equipment.....	10
7	Maximum Permissible RF Exposure.....	11
7.1	FCC Limits and Summary.....	11
7.2	Maximum Permissible Exposure Test Results.....	12
	ANNEX A: The EUT Appearance.....	13
	ANNEX B: Test Setup Photos.....	14



## 1 Test Laboratory

### 1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

### 1.2 Test facility

#### **FCC (Designation number: CN1179, Test Firm Registration Number: 446626)**

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

#### **A2LA (Certificate Number: 3857.01)**

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

### 1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.  
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China  
City: Shanghai  
Post code: 201201  
Country: P. R. China  
Contact: Fan Guangchang  
Telephone: +86-021-50791141/2/3  
Fax: +86-021-50791141/2/3-8000  
Website: <http://www.ta-shanghai.com>  
E-mail: [fanguangchang@ta-shanghai.com](mailto:fanguangchang@ta-shanghai.com)



## 1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 $\Omega$
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

## 2 Statement of Compliance

The Maximum Permissible Exposure (MPE) found during testing for the EUT is as follows:

Table 1: Maximum Permissible Exposure

FCC Limit		Maximum Permissible Exposure		FCC Percentage	
Magnetic Field (A/m)	Electric Field (V/m)	Magnetic Field RMS (A/m)	Electric Field RMS (V/m)	Magnetic Field Percentage (%)	Electric Field Percentage (%)
1.63	614	0.0687	0.6459	4.21%	0.0011
Date of Testing:	March 1, 2021~March 4, 2021				
Date of Sample Receiving:	March 1, 2021				
Test Result	Complies				

Note: 1. Above result is the worst case of all test mode and test positions.

2. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.

3. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

### 3 Description of Equipment under Test

#### Client Information

<b>Applicant</b>	LEXON
<b>Applicant address</b>	125 avenue des Champs Elysées 75008 Paris France
<b>Manufacturer</b>	LEXON
<b>Manufacturer address</b>	125 avenue des Champs Elysées 75008 Paris France

#### General Technologies

<b>Model</b>	LA128
<b>SN</b>	1#
<b>Hardware Version</b>	V22
<b>Software Version</b>	V2.1



## 4 Test Specification, Methods and Procedures

All calculations were made in accordance with FCC OET Bulletin 65 Edition 97-01 and IC Safety Code 6.

FCC Part 1 Subpart I

FCC Part 2 Subpart J

KDB 680106 D01

## 5 Equipment Under Test

### 5.1 Description of EUT

The EUT is a wireless charging device which has a single inductive charging coil. The charging frequency is between 110 kHz to 205 kHz, and the maximum power consumption is 5W.

### 5.2 Worst-Case Configuration

Configuration	Mode	Description
1	Standby	Base station in stand-by, idle mode
2	Operating	Communication before charging, adjustment charging mode / position

Note: EUT was tested as standby and operation modes.

### 5.3 KDB 680106 D01 v03 Section 5.b) Equipment Approval Considerations

Requirement	Device
(1) Power transfer frequency is less than 1 MHz	Yes. Operating Frequency is between 110kHz to 205 kHz.
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes. Maximum power is 5 Watts.
(3) 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.
(4) Client device is placed directly in contact with the transmitter.	Yes.
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes.
(6) 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.	Yes. The aggregate field are 0.0011% of the FCC H field limit.



## 5.4 Description of Test Setup

### Support Equipment

Support Equipment & Peripherals List			
Description	Manufacturer	Model	Serial Number
Notebook PC	DELL	Inspiron 5480	7FRD2P2
Auxiliary equipment	Apple	iPhone11pro Max	FK1CQ4UPN705

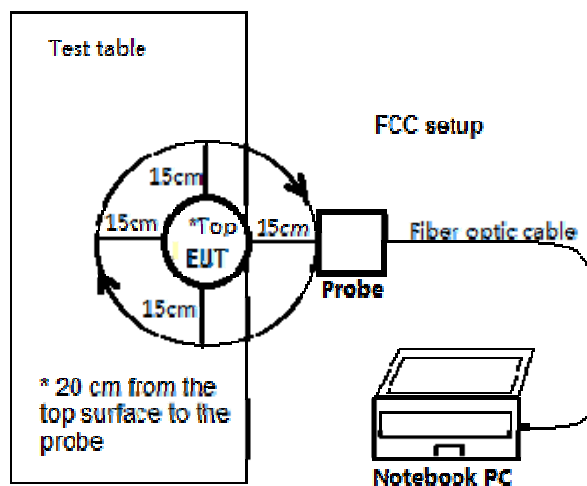
### Test Setup

The following two configurations are tested;

Configuration	Mode	Descriptions
1	Standby	Base station in stand-by, idle mode
2	Operating (<10% Power Charging)	Communication before charging, adjustment charging mode / position
	Operating (~50% Power Charging)	Communication before charging, adjustment charging mode / position
	Operating (>90% Power Charging)	Communication before charging, adjustment charging mode / position

### Measurement Setup

FCC: The measurement was taken using a probe placed 15 cm surrounding the device and 20 cm above the top surface of the EUT. Measurements were taken the top and all sides of the EUT per KDB680106 D01 v03.





## 6 Test and Measurement Equipment

The following test and measurement equipment was used for the tests documented in this report;

Description	Manufacturer	Model	Software	Serial Number	Cal Date	Cal Due
Electric and Magnetic Field Probe	Narda	EHP-200A	Rel. 1.92	170WX91001	12-31-2020	12-30-2021

## 7 Maximum Permissible RF Exposure

### 7.1 FCC Limits and Summary

§ 1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—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> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
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

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

## 7.2 Maximum Permissible Exposure Test Results

### E-Field and H-Field Measurements

Note: RMS measurements were performed.

Configuration	Test Mode	Measuring Distance (cm)	Location	Maximum Permissible Exposure	
				Magnetic Field RMS (A/m)	Electric Field RMS (V/m)
1	Standby	20	Back	0.0528	0.3928
		20	Front	0.0539	0.4031
		15	Left	0.0499	0.4115
		15	Right	0.0498	0.4069
		15	Top	0.0524	0.4005
		15	Bottom	0.0493	0.3981
2	Operating (Power <10% Charging) Adjustment charging mode / position for worst case	20	Back	0.0561	0.5290
		20	Front	0.0535	0.6459
		15	Left	0.0533	0.4248
		15	Right	0.0496	0.4158
		15	Top	0.0488	0.3990
		15	Bottom	0.0543	0.4066
	Operating (Power 40% - 50% Charging) Adjustment charging mode / position for worst case	20	Back	0.0622	0.5185
		20	Front	0.0601	0.5887
		15	Left	0.0687	0.4559
		15	Right	0.0654	0.4344
		15	Top	0.0640	0.3943
		15	Bottom	0.0621	0.3939
	Operating (Power >90% Charging) Adjustment charging mode / position for worst case	20	Back	0.0481	0.5595
		20	Front	0.0577	0.5876
		15	Left	0.0662	0.4112
		15	Right	0.0532	0.4512
		15	Top	0.0501	0.4066
		15	Bottom	0.0569	0.4357



## **ANNEX A: The EUT Appearance**

The EUT Appearance are submitted separately.



## ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

\*\*\*\*\*END OF REPORT \*\*\*\*\*