ac-MRA



A Test Lab Techno Corp.

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	MPE Report	ED 64.02
Test Report No.	: SZ1911FS11	
Applicant	: LEXON	
Product Type	: CITY ENERGY	
Trade Name	: LEXON	
Model Number	: LD141	
Received Date	: Jul. 02, 2019	
Test Period	: Jul. 24 ~ Jul. 30, 2019	
Issue Date	: Nov. 06, 2019	
Test Specification	: ANSI / IEEE Std.C95.1-1992 / IEEE Std. 1528-2013	
	47 CFR § 2.1091	
	47 CFR § 1.1310	

1. The test operations have to be performed with cautious behavior, the test results are as attached.

2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.

3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full. This report shall not be reproduced except in full, without the written approval of A Test Lab Techno Corp.

4. This document may be altered or revised by A Test Lab Techno. Corp. personnel only, and shall be noted in the revision section of the document.

Tested By : Edison HU Approved By (Jet Lu) (Edison Hu)



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	Description of Equipment under Test (EUT) Human Exposure Assessment RF Output Power Test Result



1. Description of Equipment under Test (EUT)

Applicant	LEXON							
Applicant	91 avenue Jean-Baptiste Clément - 92100 Boulogne - FRANCE							
Manufacturer	LEXON							
	91 avenue Jean-Baptiste Clément - 92100 Boulogne - FRANCE							
Product Type	CITY ENERGY	CITY ENERGY						
Trade Name	LEXON							
Model Number	LD141	LD141						
FCC ID	2ARD3-LD141	2ARD3-LD141						
Frequency Range		Frequency Range (MHz)						
	Bluetooth BR/ED	2402 - 2480						
Antenna Information	Model	Туре	Max. Ga	in (dBi)				
	2.4G ANT	Inverted F Antenna	Bluetooth BR / EDR	-0.58				
RF Evaluation	0.0002 mW/cm ²							
Operate Temp. Range	0 ~ +45°C							

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR 2.1091 / 47 CFR 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties

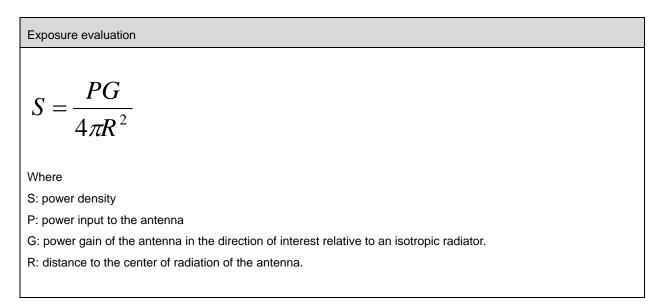


2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR § 1.1310 titled "Radiofrequency radiation exposure limits", generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. " This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).





3. RF Output Power

Operate Band	Frequency (MHz)	Packet Type	Average Conducted power (dBm)
		DH1	0.71
	2402	DH3	0.74
		DH5	0.76
Bluetooth BR		DH1	0.33
	2441	DH3	0.35
GFSK		DH5	0.38
	2480	DH1	-1.24
		DH3	-1.21
		DH5	-0.19
	2402	DH1	-0.56
		DH3	-0.53
		DH5	-0.50
Bluetooth EDR		DH1	-0.91
	2441	DH3	-0.89
π /4-DQPSK		DH5	-0.87
		DH1	-0.85
	2480	DH3	-0.83
		DH5	-0.80



4. Test Result

Antenna	Band	Test mode/ RB/Data rate	Frequency (MHz)	Limit (mw)/cm ²	Distance [R] (cm)	max tune-up Power [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	Power with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm ²
Bluetooth BR Antenna Bluetooth EDR		1M(DH5)	2402.0	1	20	1.50	-0.58	0.87	1	1.229	0.0002
	Bluetooth BR		2441.0	1	20	1.50	-0.58	0.87	1	1.229	0.0002
			2480.0	1	20	1.50	-0.58	0.87	1	1.229	0.0002
	Bluetooth EDR	2M(2DH5)	2402.0	1	20	0.50	-0.58	0.87	1	0.976	0.0002
			2440.0	1	20	0.50	-0.58	0.87	1	0.976	0.0002
			2480.0	1	20	0.50	-0.58	0.87	1	0.976	0.0002

Note:

- 1. Mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less.
- 2. The Numeric Gain calculated by 10^{(ant. Gain(dBi) /10).}
- 3. Each band max power which perform MPE of any configurations.