



### **FCC RF EXPOSURE REPORT**

For

**Outdoor Siren** 

**MODEL NUMBER: 5D22E2** 

**FCC ID: 2AB2Q5D22E2** 

**REPORT NUMBER: 4789787464-5** 

ISSUE DATE: March 3, 2021

Prepared for

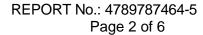
LEEDARSON LIGHTING CO., LTD.

Xingtai Industrial Zone, Economic Development Zone, Changtai County,
Zhangzhou City, Fujian Province, P.R China

Prepared by

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Building 10, Innovation Technology Park, No. 1, Li Bin Road,
Song Shan Lake Hi-Tech Development Zone, Dongguan, People's Republic of China

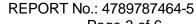
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# 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: Xingtai Industrial Zone, Economic Development Zone, Changtai

County, Zhangzhou City, Fujian Province, P.R China

**Manufacturer Information** 

Company Name: Ring LLC

Address: 1523 26th Street, Santa Monica CA 90404, USA

**EUT Information** 

EUT Name: Outdoor Siren

Model: 5D22E2 Brand: ring

Sample Received Date: January 22, 2021

Sample Status: Normal Sample ID: 3572444

Date of Tested: January 22, 2021 ~ March 3, 2021

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC 47CFR§2.1091

Complies

KDB-447498 D01 V06

Prepared By: Check By:

Kebo Zhang

Project Engineer

Kebo. zhang.

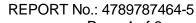
Shawn Wen

Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager





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### 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

### 3. FACILITIES AND ACCREDITATION

5. FACILITIES AND ACCREDITATION					
	A2LA (Certificate No.: 4102.01)				
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	has been assessed and proved to be in compliance with A2LA.				
	FCC (FCC Designation No.: CN1187)				
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	Has been recognized to perform compliance testing on equipment subject				
	to the Commission's Delcaration of Conformity (DoC) and Certification				
	rules				
Accreditation	IC(Company No.: 21320)				
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	has been registered and fully described in a report filed with				
	Industry Canada. The Company Number is 21320.				
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)				
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	has been assessed and proved to be in compliance with VCCI, the				
	Membership No. is 3793.				
	Facility Name:				
	Chamber D, the VCCI registration No. is G-20019 and R-20004				
	Shielding Room B , the VCCI registration No. is C-20012 and T-20011				

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OATS.



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# 4. REQUIREMENT

#### LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure					
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time  E ²,  H ² or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f2)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

Note 1: f = frequency in MHz, \* means Plane-wave equivalent power density

Note 2: 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 cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm<sup>2</sup> is available for this EUT.

### **MPE CALCULATION METHOD**

 $S = PG/(4\pi R^2)$ 

where: S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



# **CALCULATED RESULTS**

Radio Frequency Radiation Exposure Evaluation

DTS (Worst case)						
Operating	Max. Tune up Power	Antenna Gain		Power density	Limit	
Mode	(dBm)	(dBi)	(num)	(mW/ cm <sup>2</sup> )	_ Emilie	
DTS	15	3.9	2.45	0.0154	1	

		DS	S (Worst ca	ase)		
	Operating	Max. Tune up Power	Antenna Gain		Power density	Limit
	Mode	(dBm)	(dBi)	(num)	(mW/ cm <sup>2</sup> )	Liiiii
	DSS	12	3.9	2.45	0.00773	1

Note: the calculated distance is 20cm.

# **END OF REPORT**