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MPE Report



Test Report No.	: SZ2102FS13
Applicant	: RONDISH COMPANY LIMITED
Product Type	: Wireless Indication Light
Trade Name	: Rondish
Model Number	: ILB-21, ILB-11, ILB-31, ILB-41
Received Date	: Nov. 23, 2020
Test Period	: Jan. 4 ~ Jan. 26, 2021
Issue Date	: Feb. 26, 2021
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.
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1. Description of Equipment under Test (EUT)

Applicant	RONDISH COMPANY LIMITED UNIT G&H, 4/F, Block 1, KWAI TAK IND. CTR, 15-33 K Hong Kong		
Manufacturer	RONDISH COMPANY LIMITED UNIT G&H, 4/F, Block 1, KWAI TAK IND. CTR, 15-33 K Hong Kong		
Product Type	Wireless Indication Light		
Trade Name	Rondish		
Model Number	ILB-21, ILB-11, ILB-31, ILB-41		
Models different description	Due to market demand,add three series models,the differences between these models are as below: 1)Silkscreen printing 2)Labels 3)LED colors the rest circuit diagram, layout and internal components have not been changed.		
FCC ID	WNG-ILB-21		
Frequency Range	Operate Band		Frequency Range (MHz)
	SRD		434.79
Antenna Information	ANT	Type	Max. Gain (dBi)
	ANT-0	Loop Antenna	SRD -2
RF Evaluation	0.0000 mW/cm ²		
Temperature Range	5 ~ 40°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).

Exposure evaluation

$$S = \frac{PG}{4\pi R^2}$$

Where

S: power density

P: power input to the antenna

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.



3. Test Results

Band	Frequency (MHz)	Limit (mw/cm ²)	Distance [R] (cm)	Power (dBm) [P]	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	Power with Duty cycle [TP] (mW)	Power Density [S] (mw/cm ²)
SRD	434.79	0.29	20	-25.53	-2	0.63	1	0.002	0.000

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 $10^{(\text{ant. Gain(dBi)} / 10)}$.
- 3.Each band max power which perform MPE of any configurations.