

# A Test Lab Techno Corp.

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		MPE Report
Test Report No.	:	SZ1912FS11
Applicant	:	Maverick Industries, Inc.
Product Type	:	Intelligent Digital TRULY Wireless FOOD THERMOMETER
Trade Name	:	MAVERICK
Model Number	:	BT-30
Received Date	:	Nov. 05 , 2019
Test Period	:	Nov. 06 ~ Nov. 08, 2019
Issue Date	:	Dec. 12, 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.

Louis Sher Approved By Tested By (Jet Lu) (Louis Shen)



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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	Maverick Industries, Inc.						
Applicant	94 Mayfield Avenue Edison NJ United States						
	Manford Development Limited						
Manufacturer							
	N.T., Hong Kong						
Fastary	ATR (DONG GUAN) ELECTRONICS MANUFACTORY CO., LTD.						
Factory	38, XIAN FENG ROAD, PING SHAN, TANGXIA TOWN, DONGGUAN CITY, GUANG DONG PROVINCE						
Product Type	Intelligent Digital TRULY Wireless FOOD THERMOMETER						
Trade Name	MAVERICK						
Model Number	BT-30						
FCC ID	TKCBT-30						
	Operate Band	Frequency Range (MHz)					
Frequency Range	Bluetooth LE	2402 - 2480					
	Туре	ain (dBi)					
Antenna Information	Chip antenna	Bluetooth LE	0.5				
RF Evaluation	0.0007 mW/cm <sup>2</sup>	·	·				
Operate Temp. Range	Up to 80°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

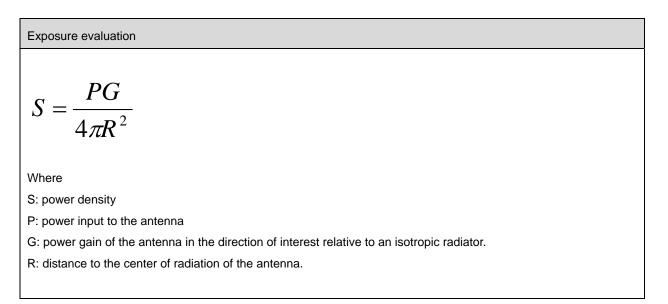


#### 2. Human Exposure Assessment

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)		
Bluetooth LE	2402	-	3.15		
	2441	-	2.81		
GFSK	2480	-	2.58		



#### 4. Test Result

Antenna	Band	Test mode/ RB/Data rate	Frequency (MHz)	Limit (mw)/cm <sup>2</sup>	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 <sup>2</sup>
Bluetooth Antenna Bluetooth LE		tooth LE 1M	2402.0	1	20	5.00	0.5	1.12	1	3.542	0.0007
	Bluetooth LE		2441.0	1	20	5.00	0.5	1.12	1	3.542	0.0007
			2480.0	1	20	5.00	0.5	1.12	1	3.542	0.0007

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.