



A Test Lab Techno Corp.

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MPE Report

Test Report No.	: 1507FS14-01
Applicant	: Maykah, Inc.
Manufacturer	: EnzyTek Technology Inc.
Product Type	: Roominate rPower
Trade Name	: roominate
Model Number	: rPower
Date of Received	: Jun. 10, 2015
Test Period	: Jul. 09, 2015
Date of Issued	: Aug. 18, 2015
Test Specification	: 47 CFR § 2.1091 47 CFR §1.1310 ANSI / IEEE Std.C95.1-1992
Location of Test Lab.	: Chang-an Lab.

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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Approved By : Bill Hu
(Bill Hu)

Tested By : Sky Chou
(Sky Chou)



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1. Description of Equipment under Test (EUT)

Applicant	Maykah, Inc.
Applicant Address	2975 Bowers Ave, Suite 301 Santa Clara California 95051 United States
Manufacturer	EnzyTek Technoloy Inc.
Manufacturer Address	7F,No.35,Hsueh Fu Rd., Hsinchu 300, Taiwan , R.O.C.
Product Type	Roominate rPower
Trade Name	roominate
Model Number	rPower
FCC ID	2AE37-RPOWER
Frequency Range	2402 - 2480 MHz : Bluetooth LE
Transmit Power (conducted power)	0.00108 W / 0.35 dBm
Antenna Peak Gain	-6.62 dBi
Antenna Designation	PCB Antenna
Temperature Range	-20 ~ +75°C
RF Evaluation	0.0006 W/m ²

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. RF Output Power

Band	Date Rate	CH	Frequency (MHz)	Average Conducted power (dBm)
Bluetooth LE	---	0	2402	0.35
	---	19	2440	-1.16
	---	39	2480	-3.23

4. Test Result

Band	Data Rate	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw)/cm^2
Bluetooth LE	---	2402	1.000	20	1	-6.62	0.22	1	0.28	0.00006
		2440	1.000	20	0	-6.62	0.22	1	0.22	0.00004
		2480	1.000	20	-2	-6.62	0.22	1	0.14	0.00003