

RF Exposure Evaluation Report

Applicant's company	IEI Integration Corp.
Applicant Address	No. 29, ZhongXing Rd, Xizhi Dist.,New Taipei City 221, Taiwan
FCC ID	RFH-FIT1-DAM-BT
Manufacturer's company	IEI Integration Corp.
Manufacturer Address	No. 29, ZhongXing Rd, Xizhi Dist.,New Taipei City 221, Taiwan

Product Name	Egomat
Brand Name	iEi
Model Name	FIT1-DAM-BT-SYS-R11
Ref. Standard(s)	47 CFR FCC Part 2 Subpart J, section 2.1093
Received Date	Feb. 09, 2017
Final Test Date	Mar. 22, 2017
Submission Type	Original Equipment


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PHOTOGRAPHS OF EUT v01



History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA720933-01	Rev. 01	Initial issue of report	Aug. 15, 2017

1. GENERAL DESCRIPTION

1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)

1.2. Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973 Test site Designation No. TW1190 with FCC.	
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085 Test site Designation No. TW0006 with FCC.	

2. RF EXPOSURE EVALUATION

2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2. SAR evaluation

- Per FCC KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
 - $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Tune-up Average Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
(dBm)	(mW)			
-14.00	0.04	5	2.44	0.0

- Per FCC KDB 447498 D01 v06 exclusion thresholds is $0.0 < 3$, RF exposure evaluation is not required.