

# ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : W178R-D004

AGR No. : A176A-402

Applicant : Huintech Co., Ltd.

Address : BI Center 218, 85, Daehak-ro, Gwangyang-eup, Gwangyang-si, Jeollanam-do, Korea

Manufacturer : Huintech Co., Ltd.

Address : BI Center 218, 85, Daehak-ro, Gwangyang-eup, Gwangyang-si, Jeollanam-do, Korea

Type of Equipment : Cording Robot dongle

FCC ID. : 2AM64HU-COCONUT02

Model Name : Coconut dongle

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : July 03, 2017

Date of issue : August 02, 2017

### **SUMMARY**

The equipment complies with the regulation; FCC PART 15 SUBPART C Section 15.247

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:

Jae-Ho Lee / Chief Engineer ONETECH Corp. Approved by:

Keun-Young, Choi / Vice President

Report No.: W178R-D004

ONETECH Corp.





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**Revision History** 

Issued Report No.	Issued Date	Revisions	Effect Section
W178R-D004	August 02, 2017	Initial Issue	All





### 1. VERIFICATION OF COMPLIANCE

Applicant : Huintech Co., Ltd.

Address : BI Center 218, 85, Daehak-ro, Gwangyang-eup, Gwangyang-si, Jeollanam-do, Korea

Contact Person: Jongsil, Kim / CEO Telephone No.: +82-70-8031-3113

FCC ID : 2AM64HU-COCONUT02

Model Name : Coconut dongle

Brand Name : Serial Number : N/A

Date : August 02, 2017

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Cording Robot dongle
KIND OD EQUIPMENT	Modular Transmitter
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT	Cartification
AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED	ECC DART 15 SUPPART C Service 15 247
UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve	None
Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

<sup>-.</sup> The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.



### 2. GENERAL INFORMATION

### 2.1 Product Description

The Huintech Co., Ltd., Model Coconut dongle (referred to as the EUT in this report) is a Cording Robot dongle. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Cording Robot dongle	
Operating Frequency	2 402 MHz ~ 2 480 MHz	
RF Output Power	-3.19 dBm	
Number of Channel	40 Channel	
Modulation Type	GFSK	
Antenna Type	Chip Antenna	
Antenna Gain	2.12 dBi	
List of each Osc. or crystal  Freq.(Freq. >= 1 MHz)	12 MHz, 16 MHz	
Rated Supply Voltage	DC 5 V	

### 2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

## 3. EUT MODIFICATIONS

-. None



### 4. MAXIMUM PERMISSIBLE EXPOSURE

### **4.1 RF Exposure Calculation**

According to the FCC rule 1.1310, the limit for General Population/Uncontrolled exposure is  $1 \text{ mW/cm}^2$  for the device operating  $1500 \sim 100000 \text{ MHz}$ .

**4.2 EUT Description** 

+.2 EOT Description			
Kind of EUT	Cording Robot dongle		
	☐ Wireless Microphone: 494.000 MHz ~ 501.000 MHz		
	and 498.200 MHz ~ 505.200 MHz		
	□ WLAN: 2 412 MHz ~ 2 462 MHz		
Operating Frequency Band	□ WLAN: 5 180 MHz ~ 5 240 MHz		
	□ WLAN: 5 745 MHz ~ 5 825 MHz		
	☐ Bluetooth: 2 402 MHz ~ 2 480 MHz		
	■ Bluetooth BLE: 2 402 MHz ~ 2 480 MHz		
MAX. RF OUTPUT POWER	-3.19 dBm		
Antenna Gain	2.12 dBi		
	□ MPE		
Exposure	□ SAR		
Evaluation Applied	■ N/A		

### 4.3 Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is [(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [  $\sqrt{f(GHz)}$ ]  $< 3 = (0.48/5) X \sqrt{2.402} = 0.15$ 

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

	Frequency (MHz)	Target Power W/tolerance	Max tune up power	Max tune up power	Separation distance	RF exposure
		(dBm)	(dBm)	(mW)	(mm)	
BLE (GFSK)	2 402	$-3.69 \pm 0.5$	-3.19	0.48	5	0.15