

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

Test Report No. : W168R-D016
AGR No. : A167A-309
Applicant : RoboLink Inc
Address : 439, Dogok-ro, Gangnam-gu, Seoul, Korea
Manufacturer : RoboLink Inc
Address : 439, Dogok-ro, Gangnam-gu, Seoul, Korea
Type of Equipment : BLE Board
FCC ID. : 2AJDE-CODRONE
Model Name : Codrone
Serial number : N/A
Total page of Report : 6 pages (including this page)
Date of Incoming : July 26, 2016
Date of issue : August 04, 2016

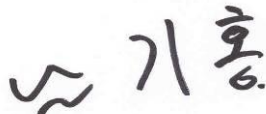
SUMMARY

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:



Ki-Hong, Nam / Asst, Chief Engineer
ONETECH Corp.

Approved by:



Sung-Ik, Han / Managing Director
ONETECH Corp.

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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
W168R-D016	August 04, 2016	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : RoboLink Inc
 Address : 439, Dogok-ro, Gangnam-gu, Seoul, Korea
 Contact Person : Do Ryeul, Lee / Robot Engineer
 Telephone No. : +82-2-554-8862
 FCC ID : 2AJDE-CODRONE
 Model Name : Codrone
 Brand Name : -
 Serial Number : N/A
 Date : August 04, 2016

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

-. 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 RoboLink Inc, Model Codrone (referred to as the EUT in this report) is a BLE Board. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	BLE Board
Temperature Range	-20 °C ~ + 60 °C
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	1.11 dBm
Number of Channel	40 Channel
Modulation Type	GFSK
Antenna Type	PCB Antenna
USED RF CHIP	Marker: TEXAS INSTRUMENTS Model Name: CC2541
Antenna Gain	3.3 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz

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

-. None

4. RADIO FREQUENCY EXPOSURE

4.1 RF Exposure Limit

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 ~ 100 000 MHz.

4.2 EUT Description

Kind of EUT	BLE Board
Operating Frequency Band	<input type="checkbox"/> WLAN: 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input checked="" type="checkbox"/> Bluetooth LE: 2 402 MHz ~ 2 480 MHz
Device Category	<input type="checkbox"/> Portable (< 20 cm separation) <input type="checkbox"/> Mobile (> 20 cm separation) <input checked="" type="checkbox"/> Others
Max. Output Power	1.11 dBm
Used Antenna	PCB Antenna
Used Antenna Gain	3.3 dBi
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A

4.3 Test Result

Operating Mode	Target Power W/tolerance	Max tune up power		Antenna Gain		Safe Distance (cm)	Power Density (mW/cm ²) @ 20 cm Separation	Limit (mW/cm ²)
	(dBm)	(dBm)	(mW)	Log	Linear			
2 402 MHz	1.0 ± 0.5	1.5	1.41	3.3	2.14	0.49	0.000 6	1.00
2 440 MHz	0.0 ± 0.5	0.5	1.12			0.44	0.000 5	
2 480 MHz	-0.5 ± 0.5	0.0	1.00			0.41	0.000 4	