


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

**Test Report No.** : OT-194-RWD-057  
**AGR No.** : A193A-186  
**Applicant** : BROS & COMPANY INC.  
**Address** : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea  
**Manufacturer** : SHENZHEN ARBITER TECHNOLOGY CO., LTD  
**Address** : Bldg A, Meisheng Industrial Park, Chongqing Rd., Fuyong, Bao'an District, Shenzhen, China  
**Type of Equipment** : Receiver  
**FCC ID.** : 2AQISPOUT-01402  
**Model Name** : POUT-01402  
**Multiple Model Name** : N/A  
**Serial number** : N/A  
**Total page of Report** : 7 pages (including this page)  
**Date of Incoming** : March 18, 2019  
**Date of issue** : April 22, 2019

## 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:   
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 Ha-Ram, Lee / Assistant Manager  
 ONETECH Corp.

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

## CONTENTS

	<b>PAGE</b>
<b>1. VERIFICATION OF COMPLIANCE .....</b>	<b>4</b>
<b>2. GENERAL INFORMATION .....</b>	<b>5</b>
<b>2.1 PRODUCT DESCRIPTION .....</b>	<b>5</b>
<b>2.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT. ....</b>	<b>5</b>
<b>3. EUT MODIFICATIONS .....</b>	<b>5</b>
<b>4. RF EXPOSURE EVALUATION .....</b>	<b>6</b>
<b>4.1 STANDARD APPLICABLE .....</b>	<b>6</b>
<b>4.2 EUT DESCRIPTION .....</b>	<b>6</b>
<b>4.3 TEST RESULT OF SAR EXCLUSION FOR PORTABLE DEVICES .....</b>	<b>7</b>

### Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-194-RWD-057	April 22, 2019	Initial Issue	All

**1. VERIFICATION OF COMPLIANCE**

Applicant : BROS & COMPANY INC.  
 Address : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea  
 Contact Person : KIYEOL PARK / CEO  
 Telephone No. : +82-31-286-8646  
 FCC ID : 2AQISPOUT-01402  
 Model Name : POUT-01402  
 Serial Number : N/A  
 Date : April 22, 2019

EQUIPMENT CLASS	<i><b>DSS – PART 15 SPREAD SPECTRUM TRANSMITTER</b></i>
E.U.T. DESCRIPTION	Receiver
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 BROS & COMPANY INC., Model POUT-01402 (referred to as the EUT in this report) is a Receiver. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Receiver
OPERATING FREQUENCY	2 402.75 MHz ~ 2 480.75 MHz
RF OUTPUT POWER	-14.84 dBm
NUMBER OF CHANNEL	16 Channels
MODULATION TYPE	GFSK
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	-0.84 dBi
LIST OF EACH OSC. OR CRYSTAL. FREQ.(FREQ.>=1 MHz)	16 MHz
RATED SUPPLY VOLTAGE	DC 5.0 V

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

-. None

## 3. EUT MODIFICATIONS

-. None

## 4. RF Exposure Evaluation

### 4.1 Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Mim. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

### 4.2 EUT Description

Kind of EUT	Receiver
Operating Frequency Band	<input type="checkbox"/> Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz <input type="checkbox"/> WLAN: 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 240 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz <input type="checkbox"/> Bluetooth BLE: 2 402 MHz ~ 2 480 MHz <input checked="" type="checkbox"/> FHSS: 2 402.75 MHz ~ 2 480.75 MHz
MAX. RF OUTPUT POWER	-14.84 dBm
Antenna Gain	-0.84 dBi
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A

**4.3 Test Result of SAR Exclusion for Portable Devices**

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}]$$

$$= (0.033/5) \times \sqrt{2.40275} = 0.010 < 3$$

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 (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 402.75	-15.34 ± 0.5	-14.84	0.033	5	0.010



**Tested by: Seion Lee / Assistant Manager**