

DUETECH

Report No. : OT-194-RWD-057

# 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:

Ha-Ram, Lee / Assistant Manager ONETECH Corp.

Approved by:

Jae-Ho Lee / Chief Engineer ONETECH Corp.



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# **Revision History**

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



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# 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

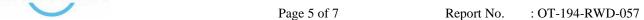
Serial Number : N/A

Date : April 22, 2019

EQUIPMENT CLASS	DSS – PART 15 SPREAD SPECTRUM TRANSMITTER	
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	FOG DADE 15 SUDDADE O Savilar 15 247	
UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247	
Modifications on the Equipment to Achieve	Nama	
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

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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





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

**4.2 EUT Description** 

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



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

[(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [  $\sqrt{f(GHz)}$ ] = (0.033/5) X  $\sqrt{2.40275}$  = 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: Sieon Lee / Assistant Manager**