





RF EXPOSURE REPORT

Applicant	Zound Industries International AB
Address	Centralplan 15 SE-111 20 Stockholm Sweden

Manufacturer or Supplier	ound Industries International AB		
Address	Centralplan 15 SE-111 20 Stockholm Sweden		
Product	WIRELESS HOME BLUETOOTH SPEAKER		
Brand Name	Marshall		
Model	WOBURN III		
Additional Model & Model Difference	N/A		
Date of tests	Oct. 20, 2021 ~ Oct. 21, 2021		

◯ FCC Part 2 (Section 2.1091)

KDB 447498 D01

⊠ IEEE C95.1

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tostod by Eric Fana	Approved by Clyp Ho
Tested by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
, ,)

Date: Nov. 05, 2021

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at https://www.cps.bureauveritas.com/terms-conditions and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with lot from which a test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China. Tel: +86 769 8998 2098 Fax: +86 769 8593 1080



TABLE OF CONTENTS

REL	EASE CONTROL RECORD	3
1.	CERTIFICATION	4
2.	RF EXPOSURE LIMIT	5
3.	MPE CALCULATION FORMULA	5
4.	CLASSIFICATION	5
5.	ANTENNA GAIN	6
6.	CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	6

Tel: +86 769 8998 2098 Fax: +86 769 8593 1080



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2104WDG0401	Original release	Nov. 05, 2021

Tel: +86 769 8998 2098 Fax: +86 769 8593 1080



1. CERTIFICATION

FCC ID:	2AAGF-WOBURNIII		
PRODUCT:	T: WIRELESS HOME BLUETOOTH SPEAKER		
BRAND NAME:	Marshall		
MODEL NO.:	WOBURN III		
ADDITIONAL NO.:	N/A		
APPLICANT:	Zound Industries International AB		
STANDARDS:	Centralplan 15 SE-111 20 Stockholm Sweden		
	KDB 447498 D01		
	IEEE C95.1		

Tel: +86 769 8998 2098 Fax: +86 769 8593 1080



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)					
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE								
300-1500	300-1500 F/1500 30							
1500-100,000			1.0	30				

F = Frequency in MHz

3. MPE CALCULATION FORMULA

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

Tel: +86 769 8998 2098 Fax: +86 769 8593 1080

Email: customerservice.dg@bureauveritas.com



5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type	
Chain 0	3.45	PCB Antenna	

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	2	+-2	0	4
8DPSK	2402-2480	2	+-2	0	4
BT-LE 1M	2402-2480	5	+-2	3	7
BT-LE 2M	2402-2480	5	+-2	3	7

The measured conducted Average Power

The Theasarea conducted Average Fower					
Mode	Frequency (MHz)	Averaged Power (dBm)			
GFSK	2480	2.23			
8DPSK	2480	3.38			
BT-LE 1M	2402	6.01			
BT-LE 2M	2402	5.89			

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480	7	3.45	20	0.002207	1.0

--- END ---