

RF EXPOSURE REPORT

Applicant	Zound Industries International AB			
Address	Centralplan 15 SE-111 20 Stockholm Sweden			
Manufacturer or Supplier	DONGGUAN TYMPHANY ACOUSTIC TECHNOLOGY CO., LTD			
Address	Tymphany Building, Liuwu Section Guangdong, China 523290	Tymphany Building, Liuwu Section, Ke-ji Dong Road, Shijie Town, Dongguan City, Guangdong, China 523290		
Product	Active Loud Speaker			
Brand Name	Marshall			
Model	ACTON BLUETOOTH			
Additional Model & Model Difference	N/A			
Date of tests	Apr. 18, 2016 ~ Apr. 24, 2016			
 ➢ FCC Part 2 (Sec ➢ KDB 447498 D0 ➢ IEEE C95.1 CONCLUSION: The 	1	<u>COMPLY</u> with the test requirement		
Tested by Madison LuoApproved by Chris ChenSupervisor / EMC DepartmentManager / EMC Department				
Jamas Maria				
Date: Apr. 25, 2016 This report is 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 respect to the 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. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, 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 your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specification				

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160418N031	Original release	Apr. 25, 2016



BUREAU VERITAS Test Report No.: FS160418N031

1. CERTIFICATION

FCC ID:	2AAGF-ACTONBT	
PRODUCT:	Active Loud Speaker	
BRAND NAME:	Marshall	
MODEL NO.:	ACTON BLUETOOTH	
ADDITIONAL NO.:	N/A	
TEST SAMPLE:	Engineering Sample	
APPLICANT: Zound Industries International AB		
STANDARDS:	FCC Part 2 (Section 2.1091)	
	KDB 447498 D01	
	IEEE C95.1	

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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)	
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE					
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

 $Pd = power density in mW/cm^2$

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**.



5. ANTENNA GAIN

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

Transmitter Peak Gain Circuit		Peak Gain (dBi)	Antenna Type
Ch	ain 0	2.7	Integral PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
2402-2480	8.872	2.7	20	0.00329	1.0

--- END ---

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