

FCC TEST REPORT

FCC ID: 2AHGBBY-AU-BS-116

Product Name : Bluetooth speaker

Model Name : BY-AU-BS-116,GT-01

Brand : BYTECH

Report No. : PT800147160118E-FC02

Prepared for

ShenZhen Grand Electronics Co.,Ltd
RM301,3rd floor,PengHua industrial Park,HePing Road,LongHua district,
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TEST RESULT CERTIFICATION


Applicant's name : ShenZhen Grand Electronics Co.,ltd
Address : RM301,3rd floor,PengHua industrial Park,HePing Road,LongHua district,ShenZhen,China.
Manufacture's name : ShenZhen Grand Electronics Co.,ltd
Address : RM301,3rd floor,PengHua industrial Park,HePing Road,LongHua district,ShenZhen,China.
Product name : Bluetooth speaker
Model name : BY-AU-BS-116,GT-01
Standards : FCC CFR47 Part 1.1307(b)(1)
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Jan. 25, 2016 ~Feb. 25, 2016
Date of Issue : Feb. 26, 2016
Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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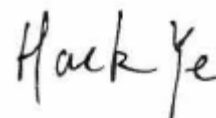
Testing Engineer

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		

3 General Information

3.1 General Description of E.U.T.

Product Name : Bluetooth speaker

Model Name : BY-AU-BS-116,GT-01

Model Description : Only the model names and colors are different.

Bluetooth Version: : V2.1+EDR

Frequency Range: : 2402-2480MHz, 79 channels

Antenna installation: : PCB Printed Antenna

Antenna Gain: : 1.4dBi

Type of Modulation : GFSK, Pi/4DQPSK, 8DPSK

The lowest oscillator: : 24MHz

Power supply : DC 3.7V power by battery, DC 5V charging by USB port

4 RF Exposure

Test Requirement : FCC Part 1.1307

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v05

4.1 Requirements

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz

2. Power and distance are rounded to the nearest mW and mm before calculation

3. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

4.2 The procedures / limit

Conducted Peak power(dBm)	Conducted Peak power(mW)	Source-based time-averaged maximum conducted output power(mW)	Minimum test separation distance required for the exposure conditions (mm)	SAR Test Exclusion Thresholds(mW)
2.16	1.644	1.644	5	9.525
Remark: Max. duty factor is 100%				
Calculation formula: Source-based time-averaged maximum conducted output power(mW) = Conducted peak power(mW) * Duty factor				

*****THE END REPORT*****