



## MPE Test Report

**Report No.:** RDK-17OC0110VTSPB-2

**FCC ID:** 2AOY2ALLHOP

**Product:** Bluetooth player

**Model:** JL8248

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**Applicant:** Shanghai Homsteel Industry Co.,Ltd

**Address:** No.49 Tianying Road, Qingpu District, Shanghai, China

**Manufacturer:** Shanghai Homsteel Industry Co.,Ltd

**Address:** No.49 Tianying Road, Qingpu District, Shanghai, China

**Issued By:** BUREAU VERITAS ADT (Shanghai) Corporation

**Lab Address:** No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

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### Release Control Record

Issue No.	Description	Date Issued
RDK-17OC0110VTSPB-2	Original release	Jan.16, 2018



## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

### 2.3 MPE Calculation Formula

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

### 2.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max Tune-up Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
BT-EDR					
2402-2480	-1.98	-0.68	20	0.00011	1

#### Conclusion:

The calculation result of MPE is less than the limit.

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