

## RF Exposure Requirements

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### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: JAUTJA Inc.  
Address of applicant: 5F, 342, Gangnam-daero, Gangnam-gu, Seoul, South Korea

Manufacturer: JAUTJA Inc.  
Address of manufacturer: 5F, 342, Gangnam-daero, Gangnam-gu, Seoul, South Korea

General Description of EUT	
Product Name:	JAUTJA Wireless Live streaming earphones
Brand Name:	JAUTJA
Model No.:	JAUTJApq
Adding Model(s):	/
Rated Voltage:	DC 5V
Battery Capacity:	/
Software Version:	/
Hardware Version:	/
Serial Number:	S01
FCC ID:	2A6QB-JAUT

Technical Characteristics of EUT	
Frequency Range:	614-616MHz
Modulation:	FM
Quantity of Channels:	2
Chanel:	614.125MHz, 615.875MHz
Type of Antenna:	External Antenna
Antenna Gain:	1.79dBi

## 1.2 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

Where

-f(GHz) is the RF channel transmit frequency in GHz

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

-The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 according to 4.1 f) is applied to determine SAR test exclusion.

## 1.3 Calculation Method

### Bluetooth

Tx frequency range: 614-616MHz

Min. test separation distance: 5mm

Maximum Tune-up Conducted Output Power:0.3dBm

RF channel transmit frequency: 615.874MHz

Result:

Limit:

Result:  $0.17 < \text{Limit: } 3.0$

So the transmitter complies with the RF exposure requirements and the SAR is not required.