1.1 Product Description for Equipment Under Test (EUT)

Client Information Applicant: Address of applicant:	Dongguan Yande Electronic Technology Co., Ltd Room 508, Building 3, No. 19 Jinpeng Road, Fenggang Town, Dongguan City, Guangdong Province,China
Manufacturer: Address of manufacturer:	Dongguan Yande Electronic Technology Co., Ltd Room 508, Building 3, No. 19 Jinpeng Road, Fenggang Town, Dongguan City, Guangdong Province,China
General Description of EUT	
Product Name:	earphone
Trade Name:	/
Model No.: Adding Model(s):	JR02 JR01,JR03, JR04, JR05, JR06, JR07, JR08, JR09, JR10, YD01, YD02, YD03, YD04, YD05, YD06, YD07, YD08, YD09, YD10, BQ10, BQ20, BQ30, BQ40, BQ50, BQ60, BQ70, BQ80, BQ90, GT01, GT02, GT03, GT04, GT05, GT06, GT07, GT08, GT09, GT10, TM10, TM11, TM12, TM13, TM20, TM30, TM40, TM50, TM60, TM70, TM80, TM90, S20, F9, M10, M25, M28, M90, M41, M99, M98, M97, M96, M95, M94, M93, M92, M91, SM01,
	SM02, SM03, SM04, SM05, SM06, SM07, SM08, SM09, SM10, TG01, TG02, TG03, TG04, TG05, TG06, TG07, TG08, TG09, TG10, TG11, TG12, VG02, VG06, VG09, M12, M100, VG121, x15
Rated Voltage:	DC 3.7V from Battery
Power Adapter Model:	/
Serial number:	S-001
FCC ID:	2BDZJ-JR02

Technical Characteristics of EUT	
Bluetooth Version:	BLE
Frequency Range:	2402-2480MHz
RF Output Power:	3.25dBm
Data Rate:	1Mbps
Modulation:	GFSK

Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	Chip
Antenna Gain:	1.5dBi

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.

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

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 ≤ 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: 2402~2480MHz Min. test separation distance: 5mm Maximum Tune-up Conducted Output Power: 3.5dBm RF channel transmit frequency: 2402MHz Result: 0.6939 Limit: 3.0

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