

1. RF Exposure Requirements

1.1 General Information

Client Information

Applicant:	Huizhou Oule Technology Co., Ltd
Address of applicant:	East side ,4/F, Block A , Factory Building , No .1 Xinxing Road (Factory Building No .6), Daya Bay West District , Huizhou , China
Manufacturer:	Huizhou Oule Technology Co., Ltd
Address of manufacturer:	East side ,4/F, Block A , Factory Building , No .1 Xinxing Road (Factory Building No .6), Daya Bay West District , Huizhou , China

General Description of EUT:

Product Name:	Bluetooth Hearing Protector
Trade Name	FLORIOGRA
Model No.:	EZ-60A
Adding Model(s):	EZ-60B, EZ-60C, EZ-60D
Rated Voltage:	Battery: DC3.7V
Battery Capacity:	2000mAh
Adapter Model:	/
FCC ID:	2BTQ6-EZ-60A
Equipment Type:	Portable device

Technical Characteristics of EUT:

Bluetooth

Bluetooth Version:	V5.3 (BR/EDR mode)
Frequency Range:	2402-2480MHz
RF Output Power:	6.117dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Quantity of Channels:	79
Channel Separation:	1MHz
Type of Antenna:	Planar Inverted-F Antennas
Antenna Gain:	-0.58dBi

1.2 RF Exposure Exemption

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

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

- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

1.3 Calculated Result

Bluetooth-BR/EDR

Tx frequency range: 2402-2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: 6.117dBm

Tune-Up output power: 7.0dBm

RF channel transmit frequency: 2402MHz

Result: 1.55

Limit: 3.0

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