

# 1 Safety Human Exposure

## 1.1 Radio Frequency Exposure Compliance

### 1.1.1 Electromagnetic Fields

RESULT:

Pass

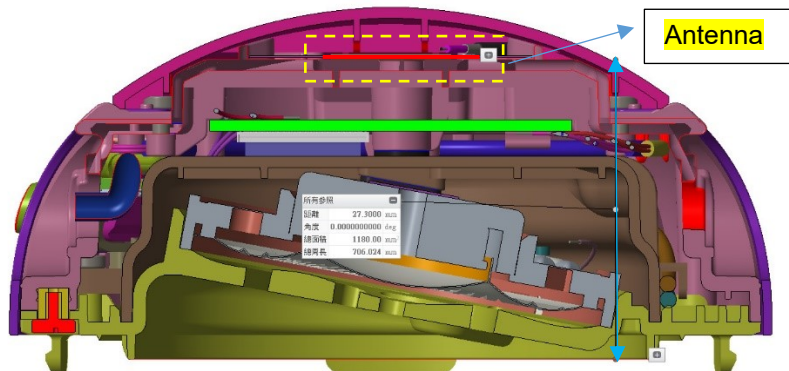
#### Test Specification

Test standard

: CFR47 FCC Part 2: Section 2.1093  
CFR47 FCC Part 1: Section 1.1310  
FCC KDB Publication 447498 v06, section 7  
RSS-102 Issue 5 March 2015, section 2.5.1

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1093 and RSS-102. This device has been defined as a portable device whereby a distance less than 20cm.

This device is a head-mounted headset, when in normal use, the nearest distance between the radiator (antenna) and users is 27.3mm, a cross-section drawn listed as following.



**a) EUT RF Exposure Evaluation operations**

➤ **IC requirements:** The EUT shall comply with the requirement of RSS-102 section 2.5.1.

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW

**a) EUT RF Exposure Evaluation standalone operations**

Test Mode	Measured conducted Power (dBm)	Antenna Gain (dBi)	Measured e.i.r.p		Threshold power (mW)	Verdict
			(dBm)	(mW)		
BLE	-2.20	4.61	2.41	1.74	52	Compliant
BDR & EDR	4.27	4.61	8.88	7.73	52	Compliant

For threshold power calculation, a separation of 25mm was used (stricter than 27.3mm).