

RF Exposure Requirements

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: HONG KONG PASSKEY INDUSTRY CO. LIMITED
Address of applicant: 2/F, Block #6, Hua Feng Industry Park, Datianyang, Dongfang, SonggangTown, Bao'An District, Shen Zhen, China, 518105

Manufacturer: HONG KONG PASSKEY INDUSTRY CO. LIMITED
Address of manufacturer: 2/F, Block #6, Hua Feng Industry Park, Datianyang, Dongfang, SonggangTown, Bao'An District, Shen Zhen, China, 518105

General Description of EUT	
Product Name:	Electroshock Butt Plugs with Remote Control
Brand Name:	/
Model No.:	PAS-AN-0098
Adding Model(s):	PAS-AN-0097, PAS-AN-0095, PAS-AN-0094
Rated Voltage:	Input: DC 3V from battery
Battery Capacity:	/
Software Version:	/
Hardware Version:	/
Serial Number:	S01
FCC ID:	2BDZI-PAS-AN

Technical Characteristics of EUT	
Frequency Range:	433.92MHz
Modulation:	FSK
Antenna Type:	Integral
Antenna Gain:	0dBi

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 ≤ 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

Tx frequency range: 433.92MHz

Min. test separation distance: 5mm

Max. Field Strength: 77.16dBuV/m

Max Power: -18.14

RF channel transmit frequency: 433.92MHz

Result: 0.002

Limit: 3.0

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

Remark: EIRP (dBm) = E (dBuV/m) - 95.3