RF Exposure Requirements

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Shenzhen Xiongchuang Chuangda Technology Co., Ltd.

Address of applicant: Unit3, Building4, Xinyi Holiday City BoyaPark, Luogang

community, Buji Street, Longgang District, Shenzhen

Manufacturer: Shenzhen Xiongchuang Chuangda Technology Co., Ltd. Address of manufacturer: Unit3,Building4,Xinyi Holiday City BoyaPark,Luogang

community, Buji Street, Longgang District, Shenzhen

General Description of EUT

Product Name: Switch JOY-CON PAD

Trade Name: /

Model No.: CH-JC03L Adding Model(s): CH-JC023R

Rated Voltage: DC 3.7V from Battery

Power Adapter Model: /

Serial number: S-001

FCC ID: 2BFJG-CH-JC03L

Technical Characteristics of EUT	
Bluetooth Version:	BLE
Frequency Range:	2402-2480MHz
RF Output Power:	4.4dBm
Data Rate:	1Mbps
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	PCB
Antenna Gain:	2.8dBi

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$

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: 4.4dBm

RF channel transmit frequency: 2402MHz

Result: 0.6329 Limit: 3.0

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