RF Exposure Requirements

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: HOZO DESIGN CO., LIMITED

Address of applicant: UNIT 917A, 9/F., TOWER A, NEW MANDARIN

PLAZA, NO.14 SCIENCE MUSEUM ROAD, TSIMSHATSUI, KOWLOON Hong Kong

Manufacturer: GuangZhou HouZuo Technology Co., Ltd
Address of manufacturer: 101 AoTeLang KeJiYuan building4,room101,

HuangPu District, GuangZhou, GuangDong.

General Description of EUT	
Product Name:	M-Cube Laser Measure
Brand Name:	Hieha
Model No.:	C00-P
Adding Model(s):	C00, C-M01, C-M03, C-M05
Rated Voltage:	DC 5V or DC3.7V from battery
Power Adapter:	1
Software Version:	1
Hardware Version:	1
Serial Number:	612420232418A07
FCC ID:	2BBKM-C00-P

Technical Characteristics of EUT	
Bluetooth Version:	V5.0 BLE
Frequency Range:	2402-2480MHz
RF Output Power:	4.367dBm (Conducted)
Data Rate:	1Mbps
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	Chip Antenna
Antenna Gain:	0.62dBi

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 Conducted Output Power: 4.367dBm RF channel transmit frequency: 2440MHz

Result: 0.85 Limit: 3.0

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