

RF Exposure Evaluation

FCC ID: 2AHTUSB5-SLAVE

1. Client Information

Applicant : Digitech Asia Ltd
Address : Suite 61, 76 Macdonnell Road Hong Kong
Manufacturer : Xunlei Yuanda Technology (Shenzhen) Co., Limited
Address : 3rd Floor, Baicai Technology Park, Beihuan Road, Shiyuan Street,
Baoan District, Shenzhen, PRC

2. General Description of EUT

EUT Name	:	Baby Safety-slave unit	
Models No.	:	SB-5	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	BLE:40 Channels
		Max Peak Output Power:	GFSK:4.26 dBm
		Antenna Gain:	1 dBi Integral Antenna
		Modulation Type:	1Mbps(GFSK)
Power Supply	:	DC power by battery	
Power Rating	:	DC 3V by 2*1.5V AAA Battery.	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $[\sqrt{f_{\text{GHz}}}] \leq 3.0$ for 1-g SAR

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $[\sqrt{f_{\text{GHz}}}] \leq 7.5.0$ for 10-g SAR

2.

Calculation:

Test separation: 5mm					
BLE Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	4.26	± 0.5	2.992	0.928	3.0
2.442	4.09	± 0.5	2.877	0.899	3.0
2.480	4.10	± 0.5	2.884	0.908	3.0

So standalone SAR measurements are not required.