

RF Exposure Evaluation

FCC ID: 2ARUI-7451

1. Client Information

Applicant : American Exchange Time LLC

Address : No.1441 Broadway 27th Floor, New York, NY 10018

Manufacturer : ShenZhen KY Technology Co., Ltd

Address : 4th Floor, Building A4, Anle Industrial Zone, NO.172, Hangcheng Road, Xixiang Town, Baoan District, ShenZhen

2. General Description of EUT

EUT Name	:	Smart Band	
Models No.	:	7451, 7452, 7456, 7458, 7459, 7468, 7489, 7491, 7591, 7592, 7593, 8050, 8081, 8082	
Model Different	:	All these models are the same PCB, layout and electrical circuit, the only different is Color of the bands.	
Product Description	:	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	:	RF Output Power:	BLE: 0.847dBm (Max)
	:	Antenna Gain:	0 dBi FPC Antenna
Power Supply	:	DC Voltage Supply from USB Cable. DC Voltage supplied by Li-ion battery.	
Power Rating	:	Input:DC 5V0.5A by USB Cable. DC 3.7V by 45mAh Li-ion battery.	
Software Version	:	V3.6	
Hardware Version	:	V03	
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 v06.

- (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:

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

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

2. Calculation:

Test separation: 5mm						
BLE Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.847	0.847 ± 1	1.847	1.530	0.474	3.0
2.442	0.672	0.672 ± 1	1.672	1.470	0.459	3.0
2.480	0.123	0.123 ± 1	1.123	1.295	0.408	3.0

So standalone SAR measurements are not required.

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