

RF Exposure Evaluation

FCC ID: 2ARUI-7543

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 : No.369, BaoTian 1st RD, TieGang Industrial Park, Xixiang Town, Baoan District, ShenZhen, PRC

2. General Description of EUT

EUT Name	:	Smart Band	
Models No.	:	7543, 7544, 7546, 7547, 7548, 7550, 7554, 7555, 7594, 7595, 7597, 8075, 8076, 8077, 8078, 7754, 7755, 7756, 7757, 7758, 7759, 9027, 9028	
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:	GFSK: -0.1671dBm (Max)
	:	Antenna Gain:	1dBi Interna Antenna
Power Rating	:	DC 5V0.5A by USB Cable. DC 3.7V by 40mAh Li-ion battery.	
Software Version	:	2600	
Hardware Version	:	V1.1	
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	-0.167	-0±1	-1	0.794	0.246	3.0
2.440	-0.425	-0±1	-1	0.794	0.248	3.0
2.480	-1.171	-1±1	-2	0.631	0.196	3.0

The worst RF Exposure Evaluation is calculated as **0.248 < limit 3.0**, So standalone SAR measurements are not required.

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