Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE159890 Page: 1 of 3

RF Exposure Evaluation FCC ID: 2ADUC-TW203

1. Client Information

Applicant		TSKY CO., LTD			
Address	?	21F2, No.8, Ziqiang S. Rd., Zhubei City, Hsinchu County 302, Taiwan			
Manufacturer	:	TSKY CO., LTD			
Address	Ŀ	21F2, No.8, Ziqiang S. Rd., Zhubei City, Hsinchu County 302, Taiwan			

2. General Description of EUT

Z. General i	76	scription of EUT		
EUT Name		SportS		
Models No.		TW203		
Model Difference		N/A		
Product Description		Operation Frequency:	Bluetooth 4.0(BT): 2402MHz~2480MHz	
		RF Output Power:	BLE:-4.160dBm	
		Antenna Gain:	0dBi PCB Antenna	
Power Supply		DC Voltage Supply from USB Port. DC Voltage supplied by Li-ion battery.		
Power Rating		DC 5.0V by USB cable DC 3.7V by 320mAh Li-ion battery		
Software Version		N/A		
Hardware Version		N/A		
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.

TB-RF-074-1. 0



Report No.: TB-MPE159890

Page: 2 of 3

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:

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

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



Report No.: TB-MPE159890

Page: 3 of 3

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	-4.160	-4±1	-3.0	0.501	0.155	3.0		
2.442	-4.771	-4±1	-3.0	0.501	0.157	3.0		
2.480	-6.086	-6±1	-5.0	0.316	0.100	3.0		

Test separation: 5mm						
The worst RF Exposure Evaluation						
Worst Calculation Value	Total Calculation	Threshold Value				
Bluetooth Mode	Value	Threshold value				
0.457	0.457					
0.157	0.157	3.0				

The worst RF Exposure Evaluation is 0.157/ cm2 < limit 3.0, So standalone SAR measurements are not required.

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