

RF Exposure Evaluation

FCC ID: 2ADUC-TW203

1. Client Information

Applicant	:	TSKY CO., LTD
Address	:	21F.-2, No.8, Ziqiang S. Rd., Zhubei City, Hsinchu County 302, Taiwan
Manufacturer	:	TSKY CO., LTD
Address	:	21F.-2, No.8, Ziqiang S. Rd., Zhubei City, Hsinchu County 302, Taiwan

2. General Description 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.

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:

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

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

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	-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 Value	Threshold Value
Bluetooth Mode		
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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