

Shenzhen Toby Technology Co., Ltd.

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# RF Exposure Evaluation FCC ID: 2AE8S-TSH01

## **1. Client Information**

Applicant	: TRASENSE INTERNATIONAL CORPORATION LIMITED
Address	: FLAT/RM B07 23/F HOVER INDUSTRIAL BUILDING NO.26-38 KWAI CHEONG ROAD HK
Manufacturer	: TRASENSE INTERNATIONAL CORPORATION LIMITED
Address	: FLAT/RM B07 23/F HOVER INDUSTRIAL BUILDING NO.26-38 KWAI CHEONG ROAD HK

# 2. General Description of EUT

EUT Name		Smart Watch				
Models No.		TS-H01, TS-H02, TS-H03, TS-H04, TS-H05, TS-H06, TS-H07, TS-H08, TS-H09, TS-H10				
Model difference	-	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.				
Product Description	C C C	Operation Frequency: 2402~2480MHz				
		Number of Channel:	Bluetooth 4.0 (BLE): 40 channels			
		Max Peak Output Power:	-1.17dBm Conducted Power			
		Antenna Gain:	1 dBi Integral Antenna			
		Modulation Type:	GFSK			
Power Supply	:	DC power by Lithium Battery.				
Power Rating	: 6	DC 3.0V Lithium 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.

TB-RF-074-1.0

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## **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)]\*[  $\sqrt{f_{(GHz)}}$  ]  $\leq$ 3.0 for 1-g SAR

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

## 2.

#### **Calculation:**

Test separation: 5mm									
BLE(GFSK)									
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value				
2.402	-1.18	±0.5	0.855	0.265	3.0				
2.442	-1.17	±0.5	0.857	0.268	3.0				
2.480	-1.22	±0.5	0.847	0.267	3.0				

So standalone SAR measurements are not required.