

# RF Exposure Evaluation

## FCC ID: 2ADHMTJA

### 1. Client Information

**Applicant** : T.Ware Pte Ltd  
**Address** : 71 Ayer Rajah Crescent #06-15, Singapore 139951  
**Manufacturer** : T.Ware Pte Ltd  
**Address** : 71 Ayer Rajah Crescent #06-15, Singapore 139951

### 2. General Description of EUT

<b>EUT Name</b>	:	T.Jacket	
<b>Models No.</b>	:	TJA	
<b>Brand Name</b>	:	T.Jacket	
<b>Model Difference</b>	:	N/A	
<b>Product Description</b>	:	Operation Frequency: Bluetooth:2402~2480MHz	
	:	Number of Channel:	BLE:40 Channels
	:	Max Peak Output Power:	GFSK:-6.312 dBm
	:	Antenna Gain:	0.5 dBi Chip Antenna
	:	Modulation Type:	1Mbps(GFSK)
<b>Power Supply</b>	:	DC power by USB cable form Host System DC power by Li-ion battery	
<b>Power Rating</b>	:	DC 5V by USB Cable from PC system. DC 3.7V by 2200 mAh Li-ion Battery.	
<b>Connecting I/O Port(S)</b>	:	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 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  $\leq 5$  mm are determined by:  
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \times [\sqrt{f_{\text{(GHz)}}}]}{\leq 3.0 \text{ for 1-g SAR}}$$
  
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \times [\sqrt{f_{\text{(GHz)}}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

2.

Calculation:

Test separation: 5mm						
BLE Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-6.340	0.5	$\pm 1$	0.292	0.091	3.0
2.442	-6.451	0.5	$\pm 1$	0.285	0.089	3.0
2.480	-6.312	0.5	$\pm 1$	0.294	0.093	3.0

**So standalone SAR measurements are not required.**