

RF Exposure Evaluation

FCC ID: 2A3OB-P25

1. Client Information

Applicant	:	SHENZHEN ZHISUIXING ELECTRONIC TECHNOLOGY CO., LTD.
Address	:	Room 215, Comprehensive Building, Anxu Business Park, No.35-1, Xiangyin Road, Nanlian Community, Longgang Street, Longgang District, Shenzhen, China
Manufacturer	:	SHENZHEN ZHISUIXING ELECTRONIC TECHNOLOGY CO., LTD.
Address	:	Room 215, Comprehensive Building, Anxu Business Park, No.35-1, Xiangyin Road, Nanlian Community, Longgang Street, Longgang District, Shenzhen, China

2. General Description of EUT

EUT Name	:	SMART WATCH
Model(s)	:	P25, GT01, GT02, GT06, GT08, GT10, GT88, GT99, GTMAX, GTPRO, GTPLUS, Y20, Y20GT, Y20PRO, Y21, Y22, P8, P41, P52, S33, S37
Model Difference	:	All of these models are identical on the same PCB, layout and circuit, the only differences are in appearance and color.
Product Description	Operation Frequency:	Bluetooth 5.1(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 5.1(BLE): 40 channels
	RF Output Power:	2.86 dBm (Max)
	Antenna Gain:	2.0dBi Internal Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps&2Mbps
Power Rating	:	Input: DC 5V/1A DC 3.7V by 200mAh Rechargeable Li-ion Battery
Software Version	:	----
Hardware Version	:	----
Connecting I/O Port(S)	:	Please refer to the User's Manual

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1.0

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:

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

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

2. Calculation:

Test separation: 5mm						
BLE Mode (1Mbps)						
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	2.86	2±1	3	1.995	0.618	3.0
2.440	2.62	2±1	3	1.995	0.623	3.0
2.480	2.81	2±1	3	1.995	0.628	3.0

Test separation: 5mm						
BLE Mode (2Mbps)						
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	2.86	2±1	3	1.995	0.618	3.0
2.440	2.68	2±1	3	1.995	0.623	3.0
2.480	2.80	2±1	3	1.995	0.628	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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