



RF Exposure Evaluation

FCC ID: 2A837-DM58

1. Client Information

Applicant	:	Shenzhen Domino Times Technology Co., Ltd
Address	:	Room806, Taibang Technology Building, Suite 16, GaoxinSouth 6th Road, High-Tech community, Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer	:	Shenzhen Domino Times Technology Co., Ltd
Address	:	Room806, Taibang Technology Building, Suite 16, GaoxinSouth 6th Road, High-Tech community, Yuehai Street, Nanshan District, Shenzhen, China

2. General Description of EUT

EUT Name	:	GPS SMART WATCH	
Model(s) No.	:	DM58, GPS 2, B78, DM58 PRO	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is Appearance and Model name.	
Product Description	Operation Frequency:	Bluetooth V5.3: 2402MHz~2480MHz	
	Antenna Gain:	-4.6dBi Shell Antenna	
Power Supply	:	USB Input: DC 5V/0.5A	DC 3.8V 500mAh 1.9Wh Rechargeable Li-ion battery
Software Version	:	V1.0	
Hardware Version	:	AT328L_V02	

Remark:

- (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- (4) 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$


2. Calculation:

Test separation: 5mm						
Bluetooth 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	5.446	5±1	6	3.981	1.234	3.0
2.441	5.25	5±1	6	3.981	1.244	3.0
2.480	4.992	4±1	5	3.162	0.996	3.0

Bluetooth Mode (Pi/4-DQPSK)						
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	5.625	5±1	6	3.981	1.234	3.0
2.441	5.406	5±1	6	3.981	1.244	3.0
2.480	5.139	5±1	6	3.981	1.254	3.0

Bluetooth Mode (8-DPSK)						
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	5.665	5±1	6	3.981	1.234	3.0
2.441	5.455	5±1	6	3.981	1.244	3.0
2.480	5.177	5±1	6	3.981	1.254	3.0

Test separation: 5mm						
Bluetooth LE 1M						
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	3.558	3±1	4	2.512	0.779	3.0
2.440	3.139	3±1	4	2.512	0.785	3.0
2.480	2.731	2±1	3	1.995	0.628	3.0

Test separation: 5mm						
Bluetooth LE 2M						
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	3.369	3±1	4	2.512	0.779	3.0
2.440	2.943	2±1	3	1.995	0.623	3.0
2.480	2.537	2±1	3	1.995	0.628	3.0

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.

-----END OF THE REPORT-----

