



RF Exposure Evaluation

FCC ID: 2BB8F-T3MAX1

1. Client Information

Applicant	:	Shenzhen TenFifteen Technology Co., Ltd
Address	:	612 Minle Technology Building, Minzhi Street, Longhua District, Shenzhen, China
Manufacturer	:	Shenzhen TenFifteen Technology Co., Ltd
Address	:	612 Minle Technology Building, Minzhi Street, Longhua District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Smart Watch	
Model(s) No.	:	T12PRO, T3MAX1, T3MAX, Q13, Q1, Q2, Q3, Q4, Q5, Q6, Q8, Q9, Q10, Q11, Q12, Q14, Q15, T1, T2, T3, T3PLUS, T4, T5, T6, T7, T8, T9, T10, T11, T12, T12PLUS, T13, T13PRO, T13PLUS, T15, T15PLUS, T16, G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, D01, D02, D03, D05, D06, M1, M2, M3, M4, M5, M6, M7, M8, M9, M9PRO, Y9, X8	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance color and model name.	
Product Description	:	Operation Frequency:	Bluetooth 5.2: 2402MHz~2480MHz
	:	Number of Channel:	79 channels for Bluetooth(BR+EDR) 40 channels for Bluetooth LE
	:	Antenna Gain:	-0.5dBi Wire Antenna
	:	Modulation Type: Bluetooth(BR+EDR)	GFSK, Pi/4-DQPSK, 8-DPSK
	:	Modulation Type: Bluetooth LE	GFSK
Power Supply	:	USB Input: DC 5V/1A DC 3.7V 230mAh 0.851Wh Rechargeable Li-ion battery	
Software Version	:	1.3.5	
Hardware Version	:	8655	
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.

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						
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	4.271	4±1	5	3.162	0.980	3.0
2.441	2.99	2±1	3	1.995	0.623	3.0
2.480	4.30	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	3.141	3±1	4	2.512	0.779	3.0
2.441	2.061	2±1	3	1.995	0.623	3.0
2.480	3.311	3±1	4	2.512	0.791	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	4.099	4±1	5	3.162	0.980	3.0
2.441	2.877	2±1	3	1.995	0.623	3.0
2.480	4.014	4±1	5	3.162	0.996	3.0

Test separation: 5mm						
Bluetooth LE Mode (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	3.886	3±1	4	2.512	0.779	3.0
2.440	2.605	2±1	3	1.995	0.623	3.0
2.480	3.816	3±1	4	2.512	0.791	3.0
Bluetooth LE Mode (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	3.919	3±1	4	2.512	0.779	3.0
2.440	2.824	2±1	3	1.995	0.623	3.0
2.480	3.837	3±1	4	2.512	0.791	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-----

