RF TEST REPORT

Report Reference No.....	**: MAX250424010-P01R01RF**
FCC ID.....	**: 2BOYL-8018T**
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Applicant's name.....:	**Yiwu Ouliang Tattoo Equipment Co., Ltd.**
Address.....:	4th Floor, Elevator, No. 9, Building 6, No. 788 Chengdian Road, Choujiang Sub-district, Yiwu City, Zhejiang Province, China
Test specification.....:	
Standard.....:	KDB 447498 D01

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Equipment description.....:	**Tattoo transfer machine**
Trade Mark.....:	N/A
Manufacturer.....:	Yiwu Ouliang Tattoo Equipment Co., Ltd.
Model/Type reference.....:	8018T
Listed Models .....:	N/A
Modulation .....:	GFSK
Frequency.....	From 2402MHz to 2480MHz
Ratings.....:	DC 5.0V from USB Port or DC 7.4V from battery
Result.....:	**PASS**

RF Exposure Evaluation

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*($900/f^2$)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

Friis transmission formula: **$Pd = (Pout*G)/(4*pi*r^2)$**

Where

Pd = power density in mW/cm^2, **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm^2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

Test Result of RF Exposure Evaluation

Bluetooth BLE

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm^2)	Limit (mW/cm^2)	Result
GFSK	2402	2.456	1.76	0.00035	1.0	PASS
	2440	2.652	1.84	0.00037	1.0	PASS
	2480	2.845	1.93	0.00038	1.0	PASS

Remark: antenna gain= -0.68dBi

Conclusion: No SAR is required.