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RF Exposure Evaluation FCC ID: 2BFO4-C2

1. Client Information

Applicant	:	Shenzhen Yipincheng Technology Co., Ltd.			
Address	B1,18 /F, Building 12, Lehui Science and TechnologyInnovation C : 489 Jihua Road, Bantian Community, Longgang District, Shenzhe China				
Manufacturer		Shenzhen Yipincheng Technology Co., Ltd.			
Address	B1,18 /F, Building 12, Lehui Science and TechnologyInnovation Cer 489 Jihua Road, Bantian Community, Longgang District, Shenzhen, China				

2. General Description of EUT

EUT Name	:	Water Flosser					
Model(s) No.	:	C2, C2SE, C6, C6SE, C6SE-BT					
Model Difference		All PCB boards and circuit diagrams are the same, the only difference is the appearance.					
60077		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MF				
Product Description		802.11b: 8.36dBm 802.11g: 8.32dBm 802.11n (HT20): 8.17dBm					
		Antenna Gain:	2dBi FPC Antenna				
Power Supply		Input: DC 5V					
Li-ion Polymer Battery	1	DC 3.7V by 2000mAh Rechargeable Li-ion battery					
Software Version		X-C2-TX-V3.1.15					
Hardware Version		X-C2-TX-V3					

conduction test and adapter provided by TOBY test lab.

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

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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:

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

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

2. Summary simultaneous transmission for SAR Exclusion

The SAR exemption limits outlined in clause 4.3.2(b) of KDB 447498 have been derived based on an approximate SAR value of 0.4 W/kg using half-wave dipole antennas Footnote 1. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tune-up tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg(2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) * 0.4W/kg

- 1) [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[$\sqrt{f_{(GHz)}/x}$] W/kg, for test separation distances ≤ 50 mm; where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.
- 2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is > 50 mm.³⁷

The [Σ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [Σ of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [Σ of MPE ratios] is ≤ 1.0 .



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Calculation:

Test sepa	ration: 5mm					
802.11b						
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
2412	8.28	8±1	9	7.943	2.467	3.0
2437	8.36	8±1	9	7.943	2.480	3.0
2462	8.2	8±1	9	7.943	2.493	3.0
802.11g						
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
2412	8.07	8±1	9	7.943	2.467	3.0
2437	8.32	8±1	9	7.943	2.480	3.0
2462	8.17	8±1	9	7.943	2.493	3.0
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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
2412	8.17	8±1	9	7.943	2.467	3.0
2437	8.07	8±1	9	7.943	2.480	3.0
2462	7.92	8±1	9	7.943	2.493	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, No SAR is required.

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