



RF Exposure Evaluation

FCC ID: 2BE3V-WP-03C

1. Client Information

Applicant	:	Shenzhen Peicheng Technology Co., Ltd
Address	:	5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China
Manufacturer	:	Shenzhen Peicheng Technology Co., Ltd
Address	:	5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China

2. General Description of EUT

EUT Name	:	Wireless Speaker
Model(s) No.	:	WP-03C, 03C
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is the cloth is different in color.
Product Description	:	Operation Frequency: Bluetooth V5.3: 2402MHz~2480MHz
	:	Antenna Gain: -0.58dBi PCB Antenna
Power Supply	:	USB Input: DC 5V DC 3.7V 2000mAh Rechargeable Li-ion battery
Software Version	:	WP-03C
Hardware Version	:	RH-03C-V1.3
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:

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

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



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	1.097	1±1	2	1.585	0.491	3.0
2.441	1.768	1±1	2	1.585	0.495	3.0
2.480	1.45	1±1	2	1.585	0.499	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	3.042	3±1	4	2.512	0.779	3.0
2.441	3.678	3±1	4	2.512	0.785	3.0
2.480	3.464	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	3.642	3±1	4	2.512	0.779	3.0
2.441	4.322	4±1	5	3.162	0.988	3.0
2.480	4.025	4±1	5	3.162	0.996	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	0.949	0±1	1	1.259	0.390	3.0
2.440	1.548	1±1	2	1.585	0.495	3.0
2.480	1.313	1±1	2	1.585	0.499	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	0.857	0±1	1	1.259	0.390	3.0
2.440	1.441	1±1	2	1.585	0.495	3.0
2.480	1.2	1±1	2	1.585	0.499	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-----

