

# RF Exposure Evaluation

## FCC ID: 2A4MJ-S800

### 1. Client Information

<b>Applicant</b>	:	Jiaxing Yuejia Trading Co.,Ltd
<b>Address</b>	:	Room 1201-A3, Suyin Building, No. 999, Hongxing Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province China
<b>Manufacturer</b>	:	Jiaxing Yuejia Trading Co.,Ltd
<b>Address</b>	:	Room 1201-A3, Suyin Building, No. 999, Hongxing Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province China

### 2. General Description of EUT

<b>EUT Name</b>	:	wireless headset
<b>Model(s) No.</b>	:	S800, MY002U, MY002, MY001, MY001S, MY002S, MY002U, Pro999, C9, S880, MD528, MD538, Y50, X21S, X21BT, Q26, Pro-X6, X6-Pro, J28, B4, W11, W13, T30, TWS-48, TWS-B18, P3, QD-7, A68, SP-31, S29, H02, PW09, S518, TWS-19, BY-8, X7, YX06, SK19, A6s, TWST20, MS-B4, T40, M618, X57, X55, mini12, mini13
<b>Model Difference</b>	:	All PCB boards and circuit diagrams are the same, the only difference is that appearance.
<b>Product Description</b>	Operation Frequency:	Bluetooth V5.4: 2402MHz~2480MHz
	Number of Channel:	Bluetooth 5.4: 79 channels
	Antenna Gain:	1.2dBi FPC Antenna
	Modulation Type:	GFSK, Pi/4-DQPSK, 8-DPSK
	Bit Rate of Transmitter:	1/2/3Mbps
<b>Power Supply (Charging Box)</b>	:	Input: DC 5V DC 3.7V by 180mAh Rechargeable Li-ion battery
<b>Power Supply (Earphone)</b>	:	3.7V by 25mAh Rechargeable Li-ion battery
<b>Software Version</b>	:	v2
<b>Hardware Version</b>	:	v1

**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  $\leq 5$  mm are determined by:

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}] \leq 7.5.0$  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	2.622	3±1	4	2.512	0.779	3.0
2.441	2.548	3±1	4	2.512	0.785	3.0
2.480	1.971	2±1	3	1.995	0.628	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	3.226	3±1	4	2.512	0.779	3.0
2.441	3.044	3±1	4	2.512	0.785	3.0
2.480	2.44	2±1	3	1.995	0.628	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	3.753	4±1	5	3.162	0.980	3.0
2.441	3.582	4±1	5	3.162	0.988	3.0
2.480	3.001	3±1	4	2.512	0.791	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.

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