

# RF Exposure Evaluation

## FCC ID: 2ABQOAMK-S2-02B

### 1. Client Information

**Applicant** : DongGuan Meiluodi Electronics Co., Ltd  
**Address** : No.16, Zhenxing Road, Shangjiao, Chang'an, Dongguan, Guangdong, 523876 China  
**Manufacturer** : DongGuan Meiluodi Electronics Co., Ltd  
**Address** : No.16, Zhenxing Road, Shangjiao, Chang'an, Dongguan, Guangdong, 523876 China

### 2. General Description of EUT

<b>EUT Name</b>	:	Bluetooth speaker
<b>Models No.</b>	:	AMK-S2-02B
<b>Brand Name</b>	:	MEILUODI
<b>Product Description</b>	:	Operation Frequency: Bluetooth:2402~2480MHz
	:	Number of Channel: Bluetooth:79 Channels
	:	Max Peak Output Power: GFSK: 2.559dBm
	:	Antenna Gain: 0 dBi PCB Antenna
	:	Modulation Type: GFSK 1Mbps(1 Mbps) $\pi$ /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
<b>Power Supply</b>	:	DC power supplied by AC/DC Adapter DC Voltage supplied from Li-ion battery.
<b>Power Rating</b>	:	Input: AC 100~240V 50/60Hz 0.2A Output: 5V 1A DC 3.7V 1000mAh from Li-ion battery
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

### 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 v05r02.
  - (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:  
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \times [\sqrt{f_{\text{(GHz)}}}]}{\leq 3.0 \text{ for 1-g SAR}}$$
  
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \times [\sqrt{f_{\text{(GHz)}}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

2.

Calculation:

Test separation: 5mm					
Bluetooth Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.248	$\pm 0.5$	1.883	0.584	3.0
2.441	2.559	$\pm 0.5$	2.023	0.632	3.0
2.480	2.240	$\pm 0.5$	1.879	0.592	3.0
Bluetooth Mode (8-DPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.287	$\pm 0.5$	1.900	0.589	3.0
2.441	2.532	$\pm 0.5$	2.010	0.628	3.0
2.480	2.143	$\pm 0.5$	1.838	0.579	3.0

So standalone SAR measurements are not required.