

RF Exposure Evaluation

FCC ID: 2ABQO-ROCKOUT

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

EUT Name	:	SPEAKER BAG	
Models No.	:	ROCK OUT 2 SOLAR, AMK-3W9-02B	
Model Difference	:	All models are identical in the same PCB layout, interior structure and electrical circuits, The only difference is model name for commercial purpose.	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	GFSK:-2.10 dBm
		Antenna Gain:	0 dBi PIFA Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable DC power by Li-ion Battery	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V 800mAh Li-ion Battery	
Connecting I/O Port(S)	:	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 ≤ 50 mm are determined by:

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

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

2.

Calculation:

Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value
2.402	-4.50	0	0.355	5	0.110	3.0
2.441	-2.10	0	0.617	5	0.193	3.0
2.480	-3.33	0	0.465	5	0.146	3.0
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value
2.402	-4.90	0	0.324	5	0.100	3.0
2.441	-2.36	0	0.581	5	0.182	3.0
2.480	-3.57	0	0.440	5	0.138	3.0

So standalone SAR measurements are not required.