# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE143761

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# RF Exposure Evaluation FCC ID: 2AEI6-ROCK

# 1. Client Information

**Applicant**: Onyx Technology Co. Ltd

Address: 11F.-1, No.343, Zhonghe Rd., Yonghe Dist., New Taipei City 23447,

Taiwan (R.O.C.)

Manufacturer : Idio Technology Co., Ltd

**Address**: 3/F, Building B, Nanchang the first industry Zone, Gushu, Bao'an

District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Bluetooth Speaker				
Models No.	:	Rock, Stereo-C, Stereo-X				
Brand Name	:	AndroMedia				
Model difference	:	The different models are identical in schematic, structure and critical components, the only difference is the out appearance of the product.				
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	8-DPSK: 5.03dBm			
		Antenna Gain:	-1.70 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)			
Power Supply	:	DC power by USB cable form Host System DC power by Li-ion battery				
Power Rating	:	DC 5V by USB Cable from PC system.				
		DC 3.7V by 1500mAh 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.

TB-RF-074-1. 0

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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 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 ≤ 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



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# 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	1.66	±0.5	1.64	0.51	3.0				
2.441	2.33	±0.5	1.92	0.60	3.0				
2.480	2.97	±0.5	2.22	0.70	3.0				
Bluetooth Mode ( π /4-DQPSK)									
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value				
2.402	3.35	$\pm$ 0.5	2.43	0.75	3.0				
2.441	3.87	±0.5	2.74	0.85	3.0				
2.480	4.38	±0.5	3.08	0.97	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	4.13	±0.5	2.90	0.90	3.0				
2.441	4.59	±0.5	3.23	1.01	3.0				
2.480	5.03	±0.5	3.57	1.13	3.0				

So standalone SAR measurements are not required.