RF Exposure Evaluation

FCC ID: 2AFIH-BND501

1. Client Information

Applicant	:	Brand New Days Limited
Address	:	Flat B, 6/F, Tong Yuen Factory Building, 505 Castle Peak Road, Lai Chi Kok, Kowloon, Hongkong
Manufacturer	:	Shenzhen Casun Electronic Co, Ltd.
Address	:	4/F, B Building, No.8 Eastern Zone, Shangxue Technology Park, Bantian, ShenZhen, China

2. General Description of EUT

EUT Name	:	Bluetooth Wireless Speaker	
Models No.	:	BND501 BOBBY	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	GFSK: -0.56dBm
		Antenna Gain:	-0.68 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π/4-DQPSK(2 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable DC power by Li-ion Battery	
Power Rating	:	DC 5V by USB Cable from PC system. DC 3.7V by 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.

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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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.13	-0.68	±0.5	1.089	0.338	**3.0**
2.441	-0.44	-0.68	±0.5	1.014	0.317	**3.0**
2.480	-0.58	-0.68	±0.5	0.982	0.309	**3.0**
Bluetooth Mode (π /4-DQPSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-5.07	-0.68	±0.5	0.349	0.108	**3.0**
2.441	-5.49	-0.68	±0.5	0.317	0.099	**3.0**
2.480	-5.89	-0.68	±0.5	0.289	0.091	**3.0**

So standalone SAR measurements are not required.