

RF Exposure Report FCC ID: 2ALZPNS-BM2S

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth Speaker			
Model Name	NS-BM2S			
Additional Model Number(s)	M3, M5, M6, M7, M8, M9, M10			
Model Difference	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.			
Frequency Range	Bluetooth 4.2+EDR: 2402~2480 MHz			
Number of Channel:	79 Channels			
Modulation Type	Bluetooth: GFSK/ π /4-DQPSK/8-DPSK			
RF Output Power	GFSK: 4.433 dBm 8-DPSK: 3.440 dBm			
Antenna Type	PCB Antenna (Gain: 0dBi)			
Power Source	DC Powered by host system or Battery .			
Power Rating	DC 5V from USB interference.			
	DC 3.7V from 1500mAh Battery.			
Remark	More details EUT technical specifications, please refer to the User's Manual.			

Version: ATL-FCCRF-15V01.00

Report No.: ATL-FCC20170428844



2. RF EXPOSURE INFORMATION

SAR Test Exclusion Calculations

- 2.1 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≤50 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

2.2 Calculation:

Bluetooth Mode							
GFSK(1Mbps)							
Frequency (MHz)	Conducte d Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	TX Power (mW)	Calculation Value	Threshold Value	
2402	4.403	4±1	5	3.162	0.980	3.0	
2441	4.433	4±1	5	3.162	0.988	3.0	
2480	4.223	4±1	5	3.162	0.996	3.0	
8-DPSK(3Mbps)							
Frequency (MHz)	Conducte d Power (dBm)	Turn-up Power Tolerance (dB)	MAX Power of Turn-up Tolerance (dbm)	TX Power (mW)	Calculation Value	Threshold Value	
2402	3.330	3±1	4	2.512	0.779	3.0	
2441	3.440	3±1	4	2.512	0.785	3.0	
2480	3.212	3±1	4	2.512	0.791	3.0	

So standalone SAR measurements are not required.

******END OF REPORT*****

Report No.: ATL-FCC20170428844