

RF Exposure Evaluation Report

FCC ID : TTUBEOPLAYH100
Equipment : Wireless Headphones
Brand Name : Bang & Olufsen
Model Name : Beoplay H100
Applicant : Bang & Olufsen A/S
Bang og Olufsen Allé 1, 7600 Struer,
Denmark
Standard : 47 CFR Part 2.1093

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1093 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA391314	Rev. 01	Initial issue of report	Feb. 06, 2024



1. Description of Device Under Test (DUT)

Product Feature & Specification	
Equipment	Wireless Headphones
Brand Name	Bang & Olufsen
Model Name	Beoplay H100
FCC ID	TTUBEOPLAYH100
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	BR/EDR/LE
FW Version	V0.20.0
HW Version	V1.0

2. Maximum RF output power among production units

Left Ear				
	Mode	Channel	Frequency (MHz)	Tune-Up Limit
Bluetooth	BR / EDR 1Mbps	0	2402	3.50
		38	2440	3.50
		78	2480	3.50
	BR / EDR 2Mbps	0	2402	1.00
		38	2440	1.00
		78	2480	1.00
	BR / EDR 3Mbps	0	2402	1.00
		38	2440	1.00
		78	2480	1.00
	LE 1Mbps	0	2402	3.00
		19	2440	3.00
		39	2480	3.00
	LE 2Mbps	2	2404	3.50
		19	2440	2.50
		37	2478	4.00

Right Ear				
	Mode	Channel	Frequency (MHz)	Tune-Up Limit
Bluetooth	BR / EDR 1Mbps	0	2402	3.00
		38	2440	3.50
		78	2480	5.00
	BR / EDR 2Mbps	0	2402	1.00
		38	2440	1.00
		78	2480	3.00
	BR / EDR 3Mbps	0	2402	1.00
		38	2440	1.00
		78	2480	1.00
	LE 1Mbps	0	2402	2.50
		19	2440	2.50
		39	2480	5.00
	LE 2Mbps	2	2404	3.00
		19	2440	2.00
		37	2478	5.00

3. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
5	3.16	5	2.48	1

Note:

- Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [\sqrt{f(GHz)}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Conclusion: Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 1 which is ≤ 3, SAR testing is not required.