


## RF Exposure Evaluation Report

Applicant's company	Bang & Olufsen a/s
Applicant Address	Peter Bangs Vej 15, DK-7600 Struer, Denmark
FCC ID	TTUBEOPLAYE6
Manufacturer's company	Bang & Olufsen a/s
Manufacturer Address	Peter Bangs Vej 15, DK-7600 Struer, Denmark

Product Name	Bluetooth Earphone
Brand Name	Bang & Olufsen
Model Name	Beoplay E6
Ref. Standard(s)	47 CFR FCC Part 2 Subpart J, section 2.1093
Received Date	Jan. 24, 2018
Final Test Date	Feb. 07, 2018
Submission Type	Original Equipment

  
Allen Lin





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### **PHOTOGRAPHS OF EUT V01**



### History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA811610	Rev. 01	Initial issue of report	Mar. 13, 2018

## 1. GENERAL DESCRIPTION

### 1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400-2483.5	2402-2480	BR / EDR: FHSS (GFSK / $\pi/4$ -DQPSK / 8DPSK) LE: DSSS (GFSK)

### 1.2. Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

## 2. RF EXPOSURE EVALUATION

### 2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

### 2.2. SAR evaluation

- Per FCC KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

- $f_{(\text{GHz})}$  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

Tune-up Average Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
(dBm)	(mW)			
4.63	2.90	5	2.402	0.9

- Per FCC KDB 447498 D01 v06 exclusion thresholds is  $0.9 < 3$ , RF exposure evaluation is not required.