











SAR Exemption Evaluation Report

Product Name: Bluetooth Headset

Model No. : B6200

FCC ID : AL8-B6200

Applicant: Plantronics, Inc.

Address : 345 Encinal Street, Santa Cruz, CA95060 USA

Date of Receipt: July. 18th, 2017

Test Date Aug. 08th, 2017~ Aug. 14th, 2017

Issued Date : Aug. 16th, 2017

Report No. : 1772104R-RF-US-P20V02

Report Version: V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNAS, TAF any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing & Certification (Suzhou)

Co., Ltd.



Test Report Certification

Issued Date: Aug. 16th, 2017

Report No.: 1772104R-RF-US-P20V02



Product Name : Bluetooth Headset Applicant : Plantronics, Inc.

Address : 345 Encinal Street, Santa Cruz, CA95060 USA

Manufacturer : Plantronics, Inc.

Address : 345 Encinal Street, Santa Cruz, CA95060 USA

Model No. : B6200

FCC ID : AL8-B6200

EUT Voltage : DC 5V

Applicable Standard : KDB 447498 D01v06

Test Result : Complied

Performed Location : DEKRA Testing & Certification (Suzhou) Co., Ltd.

No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,

215006, Jiangsu, China

TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

FCC Registration Number: 800392;

Documented By	:	Kathy La
		(Adm. Specialist: Kitty Li)
Reviewed By	:	Frankhe
		(Senior Engineer: Frank He)
Approved By	:	Harry Than
		(Engineering Manager : Harry Zhao)



1. RF Exposure Evaluation

1.1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06

4.3.1 Standalone SAR test exclusion considerations

1) 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 [f(GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR,where

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

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B:
- a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and \leq 6 GHz
- 3) The 1-g and 10-g SAR test exclusion thresholds for below 100 MHz at test separation distances ≤ 50 mm are determined by:
- a) The power threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm
- b) The power threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances \leq 50 mm
- c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable. Note: when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18 and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	: [Bluetooth Headset					
Test Item	: F	RF Exposure Evaluation					
Test Site	: /	AC-6					
Antenna Gair	ղ:						
Model No.		N/A					
Antenna manufacturer		N/A					
Antenna Delivery							
Antenna technology		⊠ siso					
				Basic			
			MIMO		CDD		
					Beam-forming		
Antenna Type			External		Dipole		
			Internal		PIFA		
					РСВ		
					Ceramic Chip Antenna		
					Metal plate type F antenna		
				\boxtimes	stamping antenna		
Antenna Gain		2.5d	Bi				

Based on The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm and the formula below:

Estimated SAR=
$$\sqrt{f(GHz)} * \frac{\text{(Max Power of channel, mW)}}{\text{Min. Separation Distance, mm}}$$

Band	Exposure Condition	Pmax (dBm)	Pmax (mw)	Distance (mm)	f(GHz)	calculation result	Stand-alone Test exclusion threshold	SAR Test
BT	Body	7.46	5.572	5	2.402	1.727	3.00	No

Conclusion: 2.40	HZ SAR was	not required.
------------------	------------	---------------

—— The End	