

# SAR Exemption Evaluation Report

Product Name :	Bluetooth Headset			
Model No. :	POTE18			
FCC ID :	AL8-POTE18			

Applicant : Plantronics, Inc. Address : 345 Encinal Street, Santa Cruz, CA95060 USA

Date of Receipt :	Aug. 21st, 2017
Issued Date :	Sep. 11th, 2017
Report No.	1782098R-RF-US-P20V02
Report Version :	V 1.0

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.

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# **Test Report Certification**

Issued Date : Sep. 11th, 2017 Report No. : 1782098R-RF-US-P20V02



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## 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  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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 < 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)  $\cdot$  (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) $\cdot$ 10] mW at > 1500 MHz and ≤ 6 GHz

3) The 1-g and 10-g SAR test exclusion thresholds for below 100 MHz at test separation distances  $\leq$  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:  $18^\circ\!\mathbb{C}\,and\,78\%\,$  RH.

# 1.3. Test Result of RF Exposure Evaluation

Product Name	:	GEYE REMOTE				
Test Item	:	RF Exposure Evaluation				
Test Site	:	AC-6				

#### • Antenna Gain:

Model No.	N/A						
Antenna manufacturer	N/A						
Antenna Delivery	$\boxtimes$	1*TX+1*RX	<	□ 2*TX+2*RX □ 3*TX+3*RX			
Antenna technology	$\boxtimes$	siso					
				Basic			
		МІМО		CDD			
				Beam-forming			
Antenna Type		External		Dipole			
		Internal		PIFA			
				РСВ			
				Ceramic Chip Antenna			
				Metal plate type F antenna			
			$\boxtimes$	Monopole Antenna			
Antenna Gain	3.52dBi						



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

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

Band	Exposure	Pmax	Pmax	Distance	f(GHz)	calculation	Stand-alone Test	SAR Test
Dana	Condition	(dBm)	(mw)	(mm)	.(0.12)	result	exclusion	0, 1, 1, 1, 0, 0, 1
		(ubiii)	(	()			threshold	
BT	head	7.47	5.585	5	2.441	1.745	3.0	No

Conclusion: 2402MHz-2480MHz SAR was not required.

— The End