



Test Report

Prepared for: Emotiv Inc

Model: EPOC Flex

Description: EEG Headset

Serial Number: FLEX01

FCC ID: 2ADIH-FLEX01

To

FCC Part 1.1310

Date of Issue: September 13, 2018

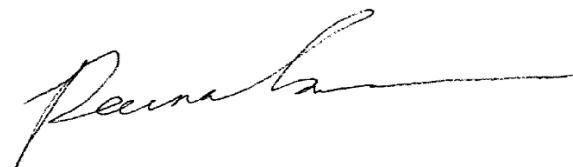
On the behalf of the applicant:

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	August 15, 2018	Poona Saber	Original Document
2.0	September 11, 2018	Poona Saber	Revised SAR exclusion calculation



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FCC Site Reg. #349717

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Non-accredited tests contained in this report:

N/A

EUT Description

Model: Epoc Flex

Description: wireless EEG system

Firmware: NA

Software: emotive pro

Serial Number: NA

Additional Information: The EPOC Flex is a 32-channel flexible EEG system consist of a controller, universal USB receiver, cap with electrode sensors on. The controller has a Bluetooth low energy radio with mini chip antenna. Frequency of operation is 2400-2483.5 MHz and unit is a battery operated with recharging capability through mini USB cable



Below is Calculation for SAR exclusion per KDB 447498.

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distance* \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, } mW)/(\text{min. test separation distance, } mm)] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 25 where}$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation 26
- 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 in KDB 447498 is applied to determine SAR test exclusion.

The Maximum output power per manufacturer declaration is 4 dBm.

$$\frac{2.5 \text{ mW}}{5 \text{ mm}} \cdot \sqrt{2.402 \text{ GHz}} = 1.54$$

Since the above number is below 1-g SAR limit this device is excluded for SAR measurements

END OF TEST REPORT