



RF Exposure Exhibit

EUT Name: USB Wireless Audio Transmitter

EUT Model: Stealth700P-MAX-TX

PMN: Stealth700P-MAX-TX

HVIN: 700P-MAX-TX

CFR47 Part 2.1093, RSS-102 Iss. 5 March 2015

Prepared for:

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Laboratory Accreditations: BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

ISO/IEC 17025:2017: 2742-01

FCC Test Site Number: US1109

IC Test Site Number: 4842D

1.1 Maximum Permissible Exposure

1.1.1 Category of DUT

Mobile Exposure; General Population / Uncontrolled Exposure

1.1.2 Test Methodology

In this section, we try to prove the safety of radiation harmfulness to the human body for our product. The KDB 447498 D01v06 General RF Exposure Guidance is followed. The Gain of the antenna used in this calculation is declared by the manufacturer, and the maximum average power input to the antenna is measured. Using the general SAR test exclusion guidance in Section 4.3 of KDB 447498, we show the device meeting the SAR exclusion threshold found in Appendix A of KDB 447498 D01v06 and SAR exemption limits found in Table 1 of RSS-102 Issue 5.

ISED accepts the KDB 447498 D01 Procedure.

1.1.3 FCC KDB 447498 D01 – General SAR Test Exclusion Guidance

The SAR exclusion threshold conditions are listed:

- 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:

$$\text{Exclusion Threshold} = [P / d] * [\sqrt{f}]$$

Where

P = max power of channel (including tune-up tolerance) in mW

d = min. test separation distance in mm

f = 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

Limit: ≤ 3.0 of 1-g SAR ≤ 7.5 of 10-g extremity SAR

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

1.1.4 EUT Operating Condition

The software provided by Manufacturer enabled the EUT to transmit data at lowest, middle and highest channel individually.

1.1.5 Classification

The antenna of the product, under normal use condition, is at least than 5 mm away from the body of the user. This device is classified as a **Portable Device**.

1.1.6 Antenna Gain

Number	Antenna Type	Description	Max Gain (dBi)
DTS Antenna	Integrated PCB	Max. peak gain at 2.4 GHz	-2.16

1.1.7 SAR Test Exclusion Threshold

SAR Exclusion Threshold Calculation

Mode	Frequency (GHz)	Max. Power (dBm)	Max. Power (mW)	Ant. Gain (dbi)	Min. Distance (mm)	Max. EIRP (mW)	SAR Excl. Threshold (mW)	Result
DTS	2.4	6.42	4.39	-2.16	≤ 5	2.67	≤ 10.0	Exempted *
Note: 1. Since the EUT can operate at a distance of 5 mm, the SAR Test Exclusion Threshold was taken from KDB 447498 D01 General RF Exposure Guidance v06 Appendix A. 2. The maximum output power was taken from Table 2 of "Turtle Beach Stealth 700P MAX TX - FCC 15.247 Report". 3. Nerve Stimulation Exposure does not apply since the EUT only operates in the 2.4 GHz band. 4. (*) The maximum eirp power is less than the SAR exclusion thresholds. Therefore, the EUT is SAR exempted for routine evaluation.								

RSS-102 SAR Exclusion Threshold Calculation

Mode	Frequency (GHz)	Max. Power (dBm)	Max. Power (mW)	Ant. Gain (dbi)	Min. Distance (mm)	Max. EIRP (mW)	SAR Excl. Threshold (mW)	Result
DTS	2.4	6.42	4.39	-2.16	≤ 5	2.67	≤ 4	Exempted *
Note: 1. (*) The eirp power in mW is less the limit of 4mW at distance ≤ 5 mm distance per RSS 102 Table 1; therefore, EUT is SAR exempted for head and body usage. 2. The maximum output power was taken from Table 2 of "Turtle Beach Stealth 700P MAX TX - FCC 15.247 Report". 3. Nerve Stimulation Exposure does not apply since the EUT only operates in the 2.4 GHz band.								