

# **FCC SAR Exclusion Report**

## FCC ID: 2APRZ-MAXWELL

Report No.	BTL-FCCP-3-2209T130	
Equipment	Maxwell headset	
Model Name	Maxwell	
Brand Name	Audeze LLC	
Applicant	Audeze LLC	
Address	3410 S Susan St, Santa Ana, CA 92704 USA	
FCC Rule Part(s)	FCC CFR Title 47, Part 2, Subpart J (§2.1093) KDB 447498 D04 General RF Exposure Guidance v01	
Date of Receipt	2022/10/4	
Date of Test	2022/10/4~ 2022/11/9	
Issued Date	2022/11/30	

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by

MC.

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#### BTL Inc.

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Testing Laboratory

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#### Declaration

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



### **REVISION HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2209T130	R00		2022/11/30	Valid



According to KDB 447498 D04 Interim General RF Exposure Guidance v01

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

 $P_{\text{th}} (\text{mW}) = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$ 

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20} \operatorname{cm}\sqrt{f}}\right)$$

$$P_{\rm th} (\rm mW) = ERP_{20 \,\rm cm} (\rm mW) = \begin{cases} 2040f & 0.3 \,\rm GHz \le f < 1.5 \,\rm GHz \\ \\ 3060 & 1.5 \,\rm GHz \le f \le 6 \,\rm GHz \end{cases}$$

#### Table for Filed Antenna:

Ant.	Manufacturer	Model number	Туре	Connector	Frequency (MHz)	Gain (dBi)
1	Ampacs Corporation	Maxwell_RX_Printed_ANT	PIFA	N/A	2400-2485	0.5

Note: The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

#### Maximum RF output power:

Mode Maximum Output Power		Tolerance	Maximum Tune-up Power	
(dBm)		(dB)	(dBm)	
BT / BLE	3.8	+/- 0.5	4.3	

#### Therefore RF Exposure Evaluation:

	Distance (mm)	Frequency (MHz)	Maximum Tune-up Power (dBm)	Maximum Tune-up Power (mW)	SAR Exclusion Threshold (mW)	Test Required
ĺ	5.00	2480	4.30	2.69	2.72	No

Therefore, standalone SAR measurements are not required for both head and body.

**End of Test Report**