

FCC ID: JFZT1406

To whom it may concern,

We, UL Japan, Inc, hereby declare that Boundary Microphone Transmitter, model: ATW-T1406 (FCC ID: JFZT1406) of Audio-Technica Corporation is exempt from RF exposure SAR evaluation because the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula according to the Code of Federal Regulation title 47 section 1.1307(b)(3)(i)(B). This method is used at separation distances d (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive) for single RF sources.  $P_{th}$  is given by:

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

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\text{ cm}}\sqrt{f}}\right)$$
 and  $f$  is in GHz

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

When the minimum separation distance is shorter than 0.5 cm, 0.5 cm is applied.

The SAR evaluation exemption threshold is calculated as below.

Pth (mW)	3060
f (GHz)	2.4
ERP <sub>20 cm</sub> (mW)	3060
d (cm)	20.0

Conducted Power	(dBm)	8.17
	(mW)	6.56
Antenna Gain (dBi	)	0.12
EIRP (dBm)		8.29
ERP	(dBm)	6.15
	(mW)	4.12

The Maximum time-averaged power or ERP whichever greater is 6.6 mW. (Rounded up to two decimals place)

Thank you for your attention to this matter.

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