RF Exposure Evaluation Report

Product Name	:	Wireless Headphones
Model No.	:	ATH-M50xBT
FCC ID	:	JFZM50XBT

Applicant : Audio-Technica Corporation Address : 2-46-1 Nishi-naruse, Machida, Tokyo, 194-8666

Date of Receipt:Aug. 15, 2018Date of Declaration :Sep. 06, 2018Report No.:1880226R-SAUSP03V00Report Version:V1.0

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 report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Issued Date: Sep. 06, 2018 Report No.: 1880226R-SAUSP03V00

DEKRA

Product Name	Wireless Headphones					
Applicant	Audio-Technica Corporation					
Address	2-46-1 Nishi-naruse, Machida, Tokyo,194-8666					
Manufacturer	Audio-Technica Corporation					
Model No.	ATH-M50xBT					
FCC ID.	JFZM50XBT					
Trade Name	Audio-Technica Corporation					
Applicable Standard	FCC 47 CFR 1.1307					
i ippireuoro Stantaura	KDB 447498 D01 v06					
Test Result	Complied					
Documented By	Joanne lin					
	(Senior Adm. Specialist / Joanne Lin)					
Tested By	wentee					
	(Engineer / Wen Lee)					
Approved By	Hond					
	(Director / Vincent Lin)					



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Wireless Headphones			
Trade Name	Audio-Technica Corporation			
Model No.	ATH-M50xBT			
FCC ID.	JFZM50XBT			
Frequency Range	2402 – 2480MHz			
Channel Number	ВТ: 79СН			
	BLE: 40CH			
Type of Modulation	BT: FHSS: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps)			
	BLE: GFSK(2Mbps)			
Antenna Type	Chip Antenna			
Antenna Gain	Refer to the table "Antenna List"			

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	MITSUBISHI	AM03DP-ST01	Chip Antenna	1.2dBi for 2.4 GHz

2. **RF Exposure Evaluation**

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)*sqrt(f(GHz) \leq 3.0 for 1-g SAR, and \leq 7.5 for 10-g extremity SAR), SAR is required as shown in the table below where calculated values are greater than 3.0 for 1-g SAR, and \leq 7.5 for 10-g extremity SAR:

 Operation frequency = 2450MHz and antenna separation distance = 10mm, Body SAR Test Exclusion Threshold = 19mW

	Maximum peak output power Peak Gain: 1.2dBi			Body SAR Test	
Frequency Band				Exclusion Threshold	Calculated Threshold Value
(MHz)	conducted	EIRP	EIRP	(mW)	$(\leq 3.0 \text{ SAR is not required})$
	(dBm)	(dBm)	(mW)	(mw)	
2402	7.15	8.35	6.84	19	1.060

2.) Operation frequency = 2450MHz and antenna separation distance = 5mm, Limb SAR Test Exclusion Threshold = 25mW

	Maximum peak output power			Limb SAR Test	
Frequency Band	Peak Gain: 1.2dBi			Exclusion Threshold	Calculated Threshold Value
(MHz)	conducted	EIRP	EIRP	(mW)	$(\leq 7.0 \text{ SAR is not required})$
	(dBm)	(dBm)	(mW)	(mw)	
2402	7.15	8.35	6.84	25	1.060

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted maximum peak output power is refer to report No.: 1880226R-RFUSP01V00 and 1880226R-RFUSP01V00-A from the DEKRA.

OATH-M50XBT PCBA Distance

♦ Main PCBA Distance

