FCC RF EXPOSURE REPORT

For

Speaker

MODEL NUMBER: AIR4

FCC ID: TQYETONAIR4
IC: 6233A-ETONAIR4

REPORT NUMBER: 4788304691.1-4

ISSUE DATE: January 31, 2018

Prepared for

JAZZ HIPSTER CORPORATION
2Fd., No.512, Yaun-San Rd. Ghang-Ho City Taiwan

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
--	01/31/2018	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	JAZZ HIPSTER CORPORATION
Address:	2Fd., No.512, Yaun-San Rd. Ghang-Ho City Taiwan

Manufacturer Information

Company Name:	ETON Deutschland Electro Acoustic GmbH
Address:	89231 Neu - Ulm, Pfaffenweg 21, Germany

EUT Description

Product Name	Speaker
Brand Name	ETON
Model Name	AIR4
Sample ID	1337271
Sample Status	Good
Sample Received date	January 03, 2018
Date Tested	January 04~January 19, 2018

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47CFR§2.1091	Complies

Tested By:

Miller Ma
Engineer Project Associate

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **IAS (Lab Code: TL-702)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has demonstrated compliance with ISO/IEC Standard 17025:2005, General requirements for the competence of testing and calibration laboratories **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **IC(Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320. **VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

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4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (Minutes)
0.3 -- 1.34	614	1.63	(100)*	30
1.34 -- 30	824/f	2.19/f	$(180/f^2)$*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

CALCULATION METHOD

$S=PG/4\pi R^2$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

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CALCULATED RESULTS

BT(GFSK) Mode							
Frequency	Antenna Gain		Tune up power with tolerance	Max Tune Up Power	Power Density	Power Density Limit	Test Result
MHz	(dBi)	(num)	(dBm)	(dBm)	mW/cm^2	mW/cm^2	--
2441	4.97	3.14	7 +/- 1	8	0.003942114	1.0	Complies

BLE Mode							
Frequency	Antenna Gain		Tune up power with tolerance	Max Tune Up Power	Power Density	Power Density Limit	Test Result
MHz	(dBi)	(num)	(dBm)	(dBm)	mW/cm^2	mW/cm^2	--
2440	4.97	3.14	6 +/- 1	7	0.003131332	1.0	Complies

WIFI Mode(WORST-CASE): 11b Channel 1							
Frequency	Antenna Gain		Tune up power with tolerance	Max Tune Up Power	Power Density	Power Density Limit	Test Result
MHz	(dBi)	(num)	(dBm)	(dBm)	mW/cm^2	mW/cm^2	--
2437	4.97	3.14	15 +/- 1	16	0.024873055	1.0	Complies

Note: 1. Antenna Gain=4.97dBi (Numeric 3.14), π=3.141.
2. The minimum separation distance of the device is greater than 20 cm.
3. Calculate by WORST-CASE mode.
4. Owing to the maximum Calculated Result is below the limit, so it deemed to comply with the basic restrictions without testing which means that no SAR is required.
5. Max Tune Up Power by manufacturer's declaration
6. Bluetooth and WIFI cannot be transmit simultaneously.

END OF REPORT

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