RF Exposure Evaluation Report

Product	:	Bluetooth Headset
Trade mark	:	Aoni, Ausdom, Mixcder
Model/Type reference	:	B021, B023, 869, 897, 872, 877, 861, 850, 862, 863, 894, 895, 883, 304, 806, 860, 881, 853, B031, B032, B033, B025, B040, B043, B030, B037
Serial Number	:	N/A
Report Number	:	EED32J00076102
FCC ID	:	Z63-A7B021
Date of Issue	:	May 15, 2017
Test Standards	:	47 CFR Part 1.1307 (2015) 47 CFR Part 2.1093 (2015) KDB447498D01 v06
Test result	:	PASS

Prepared for:

SHENZHEN AONI ELECTRONIC CO,LTD
No.5 Bldg, Honghui Industrial park, 2nd liuxian Road,
Xinan street, Baoan District, Shenzhen

Prepared by:

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Tested By:	Tom chen (Test Project)	Compiled by:	Kevin yang (Project Engineer)
Reviewed by:	Kevin Ian (Reviewer)	Approved by:	Sheek Luo (Lab supervisor)
Date:	May 15, 2017		Check No.:2447610256

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. Report Seal

2 Version

Version No.	Date	Description
00	May 15, 2017	Original

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4 General Information

4.1 Client Information

Applicant:	SHENZHEN AONI ELECTRONIC CO,LTD
Address of Applicant:	No.5 Bldg, Honghui Industrial park, 2nd liuxian Road, Xinan street, Baoan District, Shenzhen
Manufacturer:	SHENZHEN AONI ELECTRONIC CO,LTD
Address of Manufacturer:	No.5 Bldg, Honghui Industrial park, 2nd liuxian Road, Xinan street, Baoan District, Shenzhen
Factory:	SHENZHEN AONI ELECTRONIC CO,LTD
Address of Factory:	No.5 Bldg, Honghui Industrial park, 2nd liuxian Road, Xinan street, Baoan District, Shenzhen

4.2 General Description of EUT

Product Name:	Bluetooth Headset
Test Model No.(EUT):	B021
Trade mark:	Aoni, Ausdom, Mixcder
EUT Supports Radios application:	BT4.1 Singlel mode

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Test Power Grade:	Power(Ext, Int): 255, 25(manufacturer declare)
Test Software of EUT:	CSR Blue Test3 2.5.8 (manufacturer declare)
Antenna Type:	Integral Antenna
Antenna Gain:	1dBi
Power Supply:	3.7V,400mAh
Max Conducted Output Power:	2.074dBm
USB cable:	88cm(Unshielded)
AUX cable	150cm(Unshielded)
Sample Received Date:	Apr. 24, 2017
Sample tested Date:	Apr. 24, 2017 to May 12, 2017
The tested samples and the sample information are provided by the client. Model No.: B021, B023, 869, 897, 872, 877, 861, 850, 862, 863, 894, 895, 883, 304, 806, 860, 881, 853, B031, B032, B033, B025, B040, B043, B030, B037. Only the model B021 was tested, since the electrical circuit design, layout, components used and internal wiring were identical.with difference being outter Decoration and model Number.	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2 .

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.

4.9 RF Exposure Compliance Requirement

4.9.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.9.2 Limits

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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and 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 test exclusion

4.9.3 EUT RF Exposure

The Max Conducted Output Power is 2.074dBm in lowest channel(2.402GHz);

EIRP=2.074dBm+1dBi=3.074dBm

3.074dBm logarithmic terms convert to numeric result is nearly 2.03mW

According to the formula:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure = (2.03mW / 5 mm) x √2.402GHz = 0.63①

SAR requirement:

S= 3.0 ② ;

① < ②.

So the SAR report is not required.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32J00076101 for EUT external and internal photos.

*** End of Report ***