RF EVALUATION TEST REPORT

Applicant……	Elettromedia s.p.a.
Address……....	62018 Potenza Picena (MC) Italy
Manufacturer……	Elettromedia s.p.a.
Address……....	62018 Potenza Picena (MC) Italy
Factory……...	Eurosystem s.r.l.
Address……..	Via del Volontariato 5/7 60022 Castelfidardo (AN) - ITALY
Product Name……...	Bluetooth Hi-Res Receiver
Brand Name……..	AUDISON
Model No. …….....	B-CON, B-CON(II) (For model differences refer to section 2)
FCC ID……...	2ASUD-BCON
Measurement Standard……...	47 CFR PART 2, Section 2.1091
Receipt Date of Samples…….	September 11, 2021; May 26, 2025
Date of Tested……...	September 12, 2021 to December 02, 2021 May 26, 2025 to June 07, 2025
Date of Report……..	July 08, 2025

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.

Prepared by

Jenny Liu / Project Engineer

Approved by

Iori Fan / Authorized Signatory

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Revision History

Report Number	Description	Issued Date
NTC2109179F01	Initial Issue	2025-06-11
NTC2109179F02	Added one model name	2025-07-08

1. General Description of EUT

Product Information	
Product Name:	Bluetooth Hi-Res Receiver
Main Model Name:	B-CON
Additional Model Name:	B-CON(II)
Model Difference:	Both of models have the same construction, and critical components. The difference is the model name, partial PCB layout and USB interface due to marketing purpose.
S/N:	Not stated
Brand Name:	AUDISON
Hardware Version:	R01 for B-CON, R01A for B-CON(II)
Software version of the RF:	R1.0
Software version of the product:	2.1.9
Rating:	DC 6~24V come from SDC port (typical DC 12 or DC 24V) DC 5V come from USB
Typical Arrangement:	Tabletop
I/O Port:	Refer to the user manual
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional information	
Note:	According to the model differences, all the test were performed on model B-CON.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Revision History	
1. This report was an additional report based on original report NTC2109179F01. 2. Compared with the original report, this report has added one model name. Details as below:	
Before change	After change
Model name: B-CON	Model name: B-CON, B-CON(II)
3. The new model name B-CON(II) is the same as B-CON except the model name, partial PCB layout and USB interface.	
4. According to these changes, all the tests will not be affected and the test data still be referenced. Details refer to the report.	

Technical Specification (BDREDR)	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Number of Channel:	79
Channel Space:	1MHz
Antenna Type:	PCB antenna
Antenna Gain:	3.5 dBi (Declared by the manufacturer)
Technical Specification (BLE)	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channel:	40
Channel Space:	2MHz
Antenna Type:	PCB antenna
Antenna Gain:	3.5 dBi
RF PHY Support:	1Mbps

2. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2030 The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2025 Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417 Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is 46405-9743A
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China

3. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 1, 1.1307

47 CFR Part 2, 2.1091

KDB 447498 D04 v01

4. Maximum Permissible Exposure Limit

According to 47 CFR Part 1, 1.1307, for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if: 47 CFR Part 1, 1.1307

(A) The available maximum time- averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or 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. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where,

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

And,

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

d = the minimum separation distance (cm) in any direction from any part of the device antenna(s) or radiating structure(s) to the body of the device user.

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time- averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters be-tween any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}\leq 1$$

Where,

a = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(B) of this section for P_{th}, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or port-able RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i= the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$= the exemption threshold power (Pth) ac-cording to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP_j= the ERP of fixed, mobile, or portable RF source j.

$ERP_{th,j}$= exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluated$_k$= the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit$_k$= either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from §1.1310 of this chapter.

5. RF Exposure Evaluation Results

Single RF Source								
Mode	**Frequency (MHz)**	**Max. Conducted Power (dBm)**	**Antenna Gain (dBi)**	**Max. EIRP (dBm)**	**Max. ERP (dBm)**	**Max. ERP (mW)**	**Separation Distance (cm)**	**Part 1.1307 Option (B) P_{th} (mW)**
BDREDR	2480	-0.06	3.5	3.440	1.29	1.35	20	3060
BLE	2480	0.26	3.5	3.760	1.610	1.45	20	3060

Conclusion:

According to 47 CFR §1.1307 (b)(3)(i)(B), the RF exposure analysis concludes that the product is compliant with the FCC RF exposure requirements in mobile exposure condition.

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