

REM- EMISS24D468ADE-01Av0

MPE test report

According to the standard:

CFR 47 FCC PART 15

Equipment under test:

ARF52840

FCC ID: **U3Z-ARF52840**

Company:

ADEUNIS

Distribution: Mr Emmanuel MONNET

(Company: ADEUNIS)

Number of pages: 5

Ed.	Date	Modified Page(s)	Technical Verification and Quality Approval	
			Name and Function	Visa
0	10-Jan-25	Creation	J.C. BOGA, Laboratories Manager 	

Duplication of this document is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above.
This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.
Information in italics are declared by the manufacturer/customer and are under his responsibility

DESIGNATION OF PRODUCT: ARF52840

Serial number (S/N): 8393AAAA244200014

Reference / model (P/N): ARF52840

Software version: Not communicated

MANUFACTURER: ADEUNIS

COMPANY SUBMITTING THE PRODUCT:

Company: ADEUNIS

Address: 283 rue Louis NEEL
38920 CROLLES
FRANCE

Responsible: Mr Emmanuel MONNET

DATE(S) OF TEST: From 13-Nov-24 to 15-Nov-24

TESTING LOCATION: EMITECH LYON laboratory at CHASSIEU (69) FRANCE

FCC Accredited under US-EU MRA Designation Number: FR0013
Test Firm Registration Number: 807590

TESTED BY: T. LEDRESSEUR

VISA:



WRITTEN BY: T. LEDRESSEUR

CONTENTS

	TITLE	PAGE
1.	INTRODUCTION.....	4
2.	PRODUCT DESCRIPTION	4
3.	NORMATIVE REFERENCE.....	5
4.	RF EXPOSURE.....	5

REVISIONS HISTORY

Revision	Date	Modified pages	Modifications
0	10-Jan-25	/	Creation

1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **ARF52840**, in accordance with normative reference.

The equipment under test is a Bluetooth Low Energy radio module

2. PRODUCT DESCRIPTION

Category of equipment (ISED): I

Class: B

Utilization: Residential use

Antenna type and gain: 0.1 dBi / integral antenna PCB

Operating frequency range: From 2400 MHz to 2483.5 MHz

Number of channels: 40

Channel spacing: 2MHz

Modulation: GFSK

Test frequencies:

Frequencies tested:

Sample N°= 1 ⇒ 2402 MHz Full tests

Sample N°= 1 ⇒ 2440 MHz Full tests

Sample N°= 1 ⇒ 2480 MHz Full tests

Power level, frequency range and channels characteristics are not user adjustable.

The details pictures of the product and the circuit boards are joined with this file.

3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below. They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2025)	Radio Frequency Devices
ANSI C63.10	2013 Procedures for Compliance Testing of Unlicensed Wireless Devices.
447498 D01 General RF Exposure Guidance v06	RF Exposure procedures and equipment authorization policies for mobile and portable equipment
447498 D04 Interim General RF Exposure Guidance v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

4. RF EXPOSURE

Maximum Permissive Exemption according paragraph 1.1310(d)(2) of CFR 47 FCC Part 15

The most powerful antenna was considered for this analysis.

Maximum measured EIRP = 6.89 dBm = 0.0049W at 2440 MHz

$$PSD = EIRP / (4 * \pi * R^2)$$

$$\Rightarrow 0.0049 / (4 * \pi * (20 \text{ cm})^2) = 0.000972 \text{ mW/cm}^2 \text{ (limit} = 1 \text{ mW/cm}^2 = f / 1500 \text{ for } 300 < f < 1500 \text{ MHz})$$

The equipment fulfils the requirements on power density for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310.

□□□ End of report □□□