



RF Exposure Evaluation Declaration

Report No.: S20250923539902E03

Issue Date: 2025-12-19

Applicant: Huizhou Foryou General Electronics Co., Ltd.
No.2 District A, Foryou Industry Park, No. 1 North Shangxia
Address: Road,Dongjiang Hi-tech Industry Park, 516005 Huizhou city,
Guangdong Province, China(PROC)
FCC ID: 2AEIN-HA1030A
Application Type: Certification
Product: RADIO
Model No.: HA1030A
Trade Mark: /
FCC Rule Part(s): CFR 47, FCC Part 2.1091 Radio frequency radiation exposure
evaluation: mobile devices.
Item Receipt date: Sep. 17, 2025
Test Date: Sep. 17, 2025~ Oct. 20, 2025



扫一扫 验真伪

Compiled By

Stone Zhang

(Stone Zhang)

Senior Test Engineer

Approved By

Line Chen

(Line Chen)

Engineer Manager



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S20250923539902E03	Rev. 01	/	2025-12-19

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§2.1033 General Information

Applicant:	Huizhou Foryou General Electronics Co., Ltd.
Applicant Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road,Dongjiang Hi-tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)
Manufacturer:	Huizhou Foryou General Electronics Co., Ltd.
Manufacturer Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road,Dongjiang Hi-tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)
Factory:	Huizhou Foryou General Electronics Co., Ltd.
Factory Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road,Dongjiang Hi-tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)
Test Site:	Fanguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
LAB registration number:	600222-0
Test Site Address:	No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	FCC Part 2.1091
FCC ID:	2AEIN-HA1030A
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering

1. Product Information

1.1. Equipment Description

Product Name:	RADIO
Test Model:	HA1030A
Trade Mark:	/
Input Voltage Range:	17V~32.5V DC (24V)
Software Version:	DEC-A0
Hardware Version:	1230150144100/A2
EUT sample number:	S20250923539902-1-1 (Conducted) S20250923539902-1-2 (Radiated)

Note: This information is provided by the Customer and its authenticity is the responsibility of the Customer.

1.2. Product Specification Subjective to this Report

Operating Frequency	BT: 2402~2480MHz BLE: 2402~2480MHz
Number of Channels	BT: 79 BLE: 40
Channel Spacing	BT: 1MHz BLE: 2MHz
Type of modulation	BT: GFSK, $\pi/4$ DQPSK, 8DPSK BLE: GFSK
Antenna Type:	Integral PCB antenna
Antenna Gain:	1.06dBi

Note: The maximum Antenna Gain was declared by the manufacturer

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f= Frequency in MHz

Calculation Formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

For simultaneous transmission exposure cases, calculation formula is:

$$\sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

2.2. Calculation Method

Temperature:	20.5 °C
Relative Humidity:	54 %
ATM Pressure:	102.9 kPa
Test Data:	2025-10-20
Test Engineer:	Stone Zhang

Product	RADIO
Test Item	RF Exposure Evaluation

Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Antenna Gain (dBi)	PG		MPE (mW/cm ²)	MPE Limits (mW/cm ²)
				(dBm)	(mW)		
BT-3DH5	2441	7.59	1.06	8.65	7.33	0.0015	1.00
BLE	2440	4.05	1.06	5.11	3.24	0.0006	1.00

Remark: 1. MPE use distance is 20cm from manufacturer declaration of user manual.

Remark: 2. Use the maximum gain of all bands when evaluating.

Remark: 3. For simultaneous transmission is BT and BLE.

$$\sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} = 0.0015 + 0.0006 = 0.0021 < 1.$$

CONCULISON:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

Statement

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No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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