

FCC RF EXPOSURE REPORT

FCC ID: 2BTRC-YUEXIN2011

Project No. : 2508C014
Equipment : Bluetooth Module
Brand Name : YueXin
Test Model : HD9803
Model Name : HD9803
Hardware Version : HD9803-V3
Software Version : HD9803_FCC
Applicant : Shenzhen Yuexin Electronics Co., Ltd
Address : 2nd Floor, Building 2, Longfeng Industrial Park, Fucheng Street, Longhua District, Shenzhen
Manufacturer : Shenzhen Yuexin Electronics Co., Ltd
Address : 2nd Floor, Building 2, Longfeng Industrial Park, Fucheng Street, Longhua District, Shenzhen
Date of Receipt : Aug. 01, 2025
Date of Test : Aug. 04, 2025 ~ Aug. 22, 2025
Issued Date : Dec. 25, 2025
Test Sample : Engineering Sample No.: DG2025080114-2
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
 FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2508C014	R00	Original Report.	Dec. 25, 2025	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the 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

2. ANTENNA SPECIFICATION

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	ZHUHAI JIELI TECHNOLOGY CO.,LTD	2.4G ANT	PCB	N/A	-0.58

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-0.58	1.5700	1.57	1.4355	0.00045	1	Complies

(1) The calculated distance is 20 cm.

End of Test Report