

RF Exposure

Applicant : Zhenjiang Youpu Technology Co., Ltd.
Address : NO.263 Xiaomishan Road,Jingkou
District,Zhenjiang,Jiangsu,China
Product Name : BT/Zigbee module
Brand Mark : Youpu
Model : YP04
Series model : N/A
Report Number : BLA-EMC-202510-A3003
FCC ID : 2BOSO-YP04
Date of Receipt : Oct. 14,2025
Date of Test : Oct. 15,2025 to Nov. 04,2025
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part1.1310
Test Result : Pass

Compiled by:

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Review by:

Xavier

Approved by:

J. Zheng

Issued Date:

Nov. 04,2025



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
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Revise Record

Version No.	Date	Description
01	Nov. 04,2025	Original

1 General information

1.1 General information

Applicant	Zhenjiang Youpu Technology Co., Ltd.
Address	NO.263 Xiaomishan Road,Jingkou District,Zhenjiang,Jiangsu,China
Manufacturer	Zhenjiang Youpu Technology Co., Ltd.
Address	NO.263 Xiaomishan Road,Jingkou District,Zhenjiang,Jiangsu,China
Factory	Zhenjiang Youpu Technology Co., Ltd.
Address	NO.263 Xiaomishan Road,Jingkou District,Zhenjiang,Jiangsu,China

1.2 General description of EUT

Product name	BT/Zigbee module
Model no.	YP04
Series model	N/A
Differences of Series model	N/A
Power supply or adapter information	DC3.3V
Hardware version	N/A
Software version	N/A
Engineer sample no.	BLA-EMC-202510-A30

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

For BLE

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Rate data	1Mbps
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	Ceramic Chip Antenna
Antenna Gain	2dBi(Provided by customer)

For zigbee

Operation Frequency	2405MHz-2480MHz
Modulation Type	O-QPSK
Channel Spacing	5MHz
Number of Channels	16
Antenna Type	Ceramic Chip Antenna
Antenna Gain	2dBi(Provided by customer)

2 Laboratory and accreditations

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

FCC	Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
	Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
	A2LA Cert. No.:	5071.01
	FCC Designation No.:	CN1252
	Test Firm Registration Number:	923526
ISED	Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
	Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
	ISED CAB identifier No.:	CN0028
	Company Number:	24243
Telephone:		+86-755-28682673
FAX:		+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to FCC Part1.1310: 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 part1.1307(b)

3.2 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

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, 1 mW/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.

3.3 Result

Output Power Into Antenna & RF Exposure Evaluation Distance:
Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Power density at R = 20 cm (mW/cm2)	Limit of Power density in mW/cm2	Result
BLE 1M	2402	1.935	1.56	2	0.00049	1	Pass
ZIGBEE	2405	2.022	1.59	2	0.00050	1	Pass

Note: Refer to report No. BLA-EMC-202510-A3001/2 for EUT test Max Conducted Peak Output Power value.

----END OF REPORT----

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