

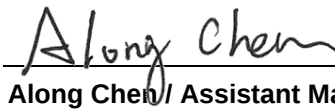
# FCC RF Exposure Report

**FCC ID** : 2AU6R04011  
**Equipment** : 802.11be (WiFi 7) Triple-Radio PoE Access Point  
(Please refer to section 1.1.1 for more details)  
**Model No.** : NWA130BE  
(Please refer to section 1.1.1 for more details)  
**Brand Name** : ZYXEL  
**Applicant** : Zyxel Networks Corporation  
**Address** : No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C  
**Standard** : 47 CFR FCC Part 2.1091  
**Received Date** : Sep. 11, 2023  
**Tested Date** : Nov. 24 ~ Jan. 15, 2024

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:

  
Along Chen / Assistant Manager

  
Gary Chang / Manager

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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FA391101   | Rev. 01 | Initial issue | Feb. 07, 2024 |

# 1 General Description

## 1.1 Information

### 1.1.1 Product Details

The following models are provided to this EUT.

| Brand Name                                                                                                                                           | Model Name | Product Name                                        | Description                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------|-------------------------------------------------------------|
| ZYXEL                                                                                                                                                | NWA130BE   | 802.11be (WiFi 7) Triple-Radio PoE Access Point     | The difference between the two models is marketing purpose. |
| ZYXEL                                                                                                                                                | WBE530     | 802.11be (WiFi 7) Triple-Radio unified Access Point |                                                             |
| Note: The above models, model <b>NWA130BE</b> was selected as a representative one for the final test and only its data was recorded in this report. |            |                                                     |                                                             |

## 2 MPE EVALUATION OF MOBILE DEVICES

### 2.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

| Frequency Range (MHz) | Power Density (mW /cm <sup>2</sup> ) | Averaging Time (minutes) |
|-----------------------|--------------------------------------|--------------------------|
| 300~1500              | F/1500                               | 30                       |
| 1500~100000           | 1.0                                  | 30                       |

### 2.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm<sup>2</sup>

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

### 2.3 REFERENCE GUIDANCE

447498 D01 General RF Exposure Guidance v06

### 2.4 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

### 2.5 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

| Parameters      | Uncertainty |
|-----------------|-------------|
| Conducted power | ±0.808 dB   |

|                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Declaration of Conformity:</b>                                                                                                                                                                      |
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.                                           |
| <b>Comments and Explanations:</b>                                                                                                                                                                      |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |

## 2.6 MPE EVALUATION RESULTS

| Frequency Range (MHz) | Maximum Conducted Power (dBm) | Maximum Tune Up Limit (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | *Ratio | Pass / Fail |
|-----------------------|-------------------------------|-----------------------------|--------------------|---------------|-------------------------------------|-----------------------------|--------|-------------|
| 2412-2462             | 27.39                         | 27.5                        | 1.77               | 20            | 0.168                               | 1                           | 0.168  | Pass        |
| 5150-5250             | 27.15                         | 27.5                        | 5.14               | 20            | 0.365                               | 1                           | 0.365  | Pass        |
| 5250-5350             | 23.92                         | 24                          | 5.14               | 20            | 0.163                               | 1                           | 0.163  | Pass        |
| 5470-5725             | 23.65                         | 24                          | 4.77               | 20            | 0.150                               | 1                           | 0.150  | Pass        |
| 5725-5850             | 26.95                         | 27                          | 4.77               | 20            | 0.299                               | 1                           | 0.299  | Pass        |
| 5925-6425             | 24.36                         | 24.5                        | 3.75               | 20            | 0.133                               | 1                           | 0.133  | Pass        |
| 6425-6525             | 21.99                         | 22                          | 2.77               | 20            | 0.060                               | 1                           | 0.060  | Pass        |
| 6525-6875             | 24.02                         | 24.5                        | 4.09               | 20            | 0.144                               | 1                           | 0.144  | Pass        |
| 6875-7125             | 24.18                         | 24.5                        | 3.49               | 20            | 0.125                               | 1                           | 0.125  | Pass        |

\*Ratio = Power density / Limit.

## 2.7 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

| Mode        | Max Ratio of Each Mode |
|-------------|------------------------|
| WLAN 2.4GHz | 0.168                  |
| WLAN 5GHz   | 0.365                  |
| WLAN 6GHz   | 0.144                  |
| Sum         | 0.677                  |
| Limit       | 1                      |
| Pass / Fail | Pass                   |

### 3 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

#### **Linkou**

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If you have any suggestion, please feel free to contact us as below information.

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