



# FCC RF Exposure Report

**FCC ID** : 2BGXJ-UWRH301  
**Equipment** : Smart Station  
**Model No.** : UW-RH-301  
**Brand Name** : UniWhale  
**Applicant** : SIRIUXENSE INC  
**Address** : 16192 Coastal Hwy Lewes, DE 19958 United States  
**Standard** : 47 CFR FCC Part 2.1091  
**Received Date** : Feb. 07, 2024  
**Tested Date** : Feb. 20 ~ Feb. 23, 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:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager



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## Release Record

Report No.	Version	Description	Issued Date
FA260205-01	Rev. 01	Initial issue	Jul. 01, 2024

# 1 MPE EVALUATION OF MOBILE DEVICES

## 1.1 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

## 1.2 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

## 1.3 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

## 1.4 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

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

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.

## 1.5 MPE EVALUATION RESULTS

### For Wi-Fi / BT

Frequency Range (MHz)	Rated Power (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	3.4	20	0.2183	1	0.2183	Pass
2402~2480	9.0	3.4	20	0.0035	1	0.0035	Pass

Note 1: \*Ratio = Power density / Limit.

Note 2: Rated powers are from report No.: RSHD200116001-00A and RSHD200116001-00B of certified module, FCC ID: 2AC7Z-ESP32WROVERE.

### For WPT

Modulation Mode	Max E-Field (V/m)	Max H-Field (A/m)
WPT	0.4271	0.0195
Limit	614	1.63
Ratio	0.0007	0.012

Note: Test results of WPT are from test report no.: FA260824-02

## 1.6 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

Mode	Max Ratio of Each Mode
2.4GHz Wi-Fi	0.2183
BT	0.0035
WPT	0.012
Sum (2.4GHz Wi-Fi + WPT)	0.2303
Sum (BT + WPT)	0.0155
Limit	1
Pass / Fail	Pass

Note: Below formula is for Simultaneous Transmission.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

## 2 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**

Tel: 886-2-2601-1640

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(R.O.C.)

### **Kwei Shan**

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City 33381, Taiwan (R.O.C.)  
No.2-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)

### **Kwei Shan Site II**

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

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