

FCC RF EXPOSURE REPORT

For

Wireless Moudle

MODEL NUMBER: VS0B9MW3565UE

PROJECT NUMBER: 4790751248

REPORT NUMBER: 4790751248-15

FCC ID: 2AL8S-0211C5L1

ISSUE DATE: Apr. 12, 2023

Prepared for

ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	04/12/2023	Initial Issue	

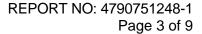




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1. ATTESTATION OF TEST RESULTS

Applicant In	formation
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Company Name: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD

Address: 88 JIANGLING RD BINJIANG DISTRICT HANGZHOU ZHEJIANG

310051 CHINA

Manufacturer Information

Company Name: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD

Address: 88 JIANGLING RD BINJIANG DISTRICT HANGZHOU ZHEJIANG

310051 CHINA

EUT Description

Product Name: Wireless Moudle Model Name: VS0B9MW3565UE

Sample Number: 5811281
Data of Receipt Sample: Feb. 21, 2023

Test Date: Feb. 23, 2023~ Apr. 11, 2023

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC 47CFR§2.1091 KDB-447498 D01 V06

Complies

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



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4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty				
Maximum Conducted Output Power	$\pm~$ 0.69 dB				
Note: This uncertainty represents an expanded uncertainty expressed at approximately the					

95% confidence level using a coverage factor of k=2.

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5. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure									
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	PowerDensity (S) (mW/cm²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)					
0.3-1.34	614	1.63	(100) *	30					
1.34-30	824/f	2.19/f	(180/f2) *	30					
30-300	27.5	0.073	0.2	30					
300-1500		-	f/150	30					
1500-100,000		-	1.0	30					

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

 $S = PG/(4\pi R2)$

where: S = power density (in appropriate units, e.g. mW/ cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)



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CALCULATED RESULTS For 8822 Module

	. *									
	2.4G WIFI (Worst case)									
Mode		Output F Anto	Power to enna	Anienna (sain l		Power Density	Limit	Verdict		
Wiode	Mode	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	Volume		
	11B	17.5	56.23	2.16	1.64	0.0184	1	Complies		

5G WIFI (Worst case)									
Mode	Output F Ant	Power to enna	I Anianna (sain		Power Density	Limit	Verdict		
	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	Verdict		
11ac20 MIMO	15.5	35.48	8.27	6.71	0.0474	1	Complies		

For M921 Module:

2.4G BT (Worst case)								
Mode	•	Power to tenna Ga		enna Gain	Power Density	Limit	Verdict	
Wede	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	Voluiot	
BLE	7.0	5.01	2.65	1.84	0.0018	1	Complies	

2.4G WIFI (Worst case)								
Mode	Output Power to Antenna		Antenna Gain		Power Density	Limit	Verdict	
	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	Voluiot	
11n40 MIMO	14.0	25.12	6.05	4.03	0.0201	1	Complies	



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5G WIFI (Worst case)								
Mode		t Power to ntenna Antenna Gain		enna Gain	Power Density	Limit	Verdict	
Wiode	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	Voluiot	
Band UNII-2C_11a	14.0	25.12	4.46	2.79	0.0140	1	Complies	

Note:

- 1. The output power to antenna and antenna gain are from reports: 4790751248-1, 4790751248-2, 4790751248-6, 4790751248-7, 4790751248-8, 4790751248-9.
- 2. The minimum separation distance of the device is greater than 20 cm.
- 3. All the modes and channels had been tested, but only the worst data was recorded in the report.
- 4. The calculated result for the sample received is <Pass> according to < 47 CFR FCC Part 2 Subpart J, section 2.1091> when <Accuracy Method> decision rule is applied.

END OF REPORT