



Test Report No.:  
**GJWSZ2024-0005-H**

## RF Test Report

**FCC ID** : 2BEE6-SUP-WSR550  
**EUT** : Radar level transmitter  
**MODEL** : SUP-WSR550  
**BRAND NAME** : N/A  
**APPLICANT** : Hangzhou Supmea Automation Co.,Ltd.  
**Classification of Test** : N/A

**CVC Testing Technology (Shenzhen) Co., Ltd.**



<b>Applicant</b>	Name : Hangzhou Supmea Automation Co.,Ltd.  Address :Room No.526, 5th floor, Building 4, Singapore-Hangzhou Science &Technology Park, Hangzhou, China		
<b>Manufacturer</b>	Name : Hangzhou Supmea Automation Co.,Ltd.  Address :Room No.526, 5th floor, Building 4, Singapore-Hangzhou Science &Technology Park, Hangzhou, China		
<b>Factory</b>	Name : Hangzhou Supmea Automation Co., Ltd.  Address :No.369, Kechuang Road,Gaoqiao Street(Development Zone) ,TongxiangCity,Jiaxing City, Zhejiang Province		
<b>Equipment Under Test</b>	Name :Radar level transmitter  Model/Type: SUP-WSR550  Trade mark : N/A  Serial NO.:N/A  Sampe NO.:2-1		
Date of Receipt.	2024.01.04	Date of Testing	2024.01.04~2024.01.23
Test Specification		Test Result	
FCC Part 2 (Section 2.1091) KDB 447498 D04 IEEE C95.3		PASS	
<b>Evaluation of Test Result</b>	The equipment under test was found to comply with the requirements of the standards applied.		
			Seal of CVC
			Issue Date: 2024.01.24
Tested by:  <u>Liang Jiatong</u>  Name <u>Liang Jiatong</u>	Tested by:  <u>Huang Meng</u>  Name <u>Huang Meng</u>	Approved by:    <u>Dong Sanbi</u>  Name <u>Dong Sanbi</u>	
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
GJWSZ2024-0005-H	Original release	2024.01.24

## 1 GENERAL PRODUCT INFORMATION

<b>PRODUCT</b>	Radar level transmitter
<b>BRAND</b>	N/A
<b>TEST MODEL</b>	SUP-WSR550
<b>ADDITIONAL MODEL</b>	N/A
<b>POWER SUPPLY</b>	DC 24V
<b>STANDARDS</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D04
	IEEE C95.3

**Note:**

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 2 RF EXPOSURE LIMITGENERAL INFORMATION

### 2.1 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

### 2.2 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (FCC)

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda /2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda /4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF SOURCE FREQUENCY (MHZ)	THRESHOLD ERP(W)
0.3 - 1.34	$1,920 R^2$
1.34 - 30	$3,450 R^2 F^2$
30 -300	$3.83 R^2$
300-1500	$0.0128 R^2 F$
1500-100,000	$19.2R^2$

## 2.3 CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The measured conducted PEAK EIRP Power

Mode	PEAK EIRP(dBm)
76GHz-79.3GHz	23.83

Note: 62GHz conducted Average Power = EIRP - Antenna Gain

The tuned conducted Power (declared by client)

Frequency Range (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
76GHz-79.3GHz	24	±1	23	25

### MAXIMUM PERMISSIBLE EXPOSURE (FCC)

Frequency Range (MHz)	R (cm)	EIRP (dBm)	ERP (dBm)	ERP (W)	Threshold ERP(W)	Ratio
76GHz-79.3GHz	20	12.04	9.89	0.316	0.77	0.41

Note: ERP=EIRP-2.15dB

### Conclusion:

This confirmed that the device compliance with FCC RF exposure requirements.

----- End of the Report -----

## Important

- (1) The test report is valid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

*\*\*The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.\*\**

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