

ANTENNA PERFORMANCE

TEST REPORT

of

2.4GHz PCB ANTENNA

Trade Name: suicen

prepared for

Shenzhen Shuaixian (Suicen) Electronic Equipment Co., Ltd No.10 Lane 3 Longxing Road, Dakang Long Village, Henggang Town, Shenzhen, China.

pared by

Shenzhen Morlab Communications Technology Co., Ltd.

3/F, Electronic Jesting Building Shahe Road, Xili,

Nanshan District Shenzhen \$18055 P. R. China

Tel. +86 755 86130398















NOTE: This test report can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory Any objections should be raised to us within thirty workdays since the date of issue.



General Information

1.1Identification of the Responsible Testing Laboratory

Company Name: Shenzhen Morlab Communications Technology Co., Ltd.

Department: Morlab Laboratory

Address: 3/F, Electronic Testing Building, Shahe Road, Nansl

District, Shenzhen, 518055 P. R. China

Responsible Test LaManager: Mr. Zeng De Xin
Telephone: +86 755 86130268
Facsimile: +86 755 86130218

1.2Identification of the ResponsibleTestingLocation

Name: Shenzhen Morlab Communications Technology Co., L

Morlab Laboratory

Address: 3/F, Electronic Testing Building, Shahe Rb Nanshan

District, Shenzhen, 518055 P. R. China

1.3Accreditation Certificate

AccreditedTestingLaboratory CNAS No. L3572 (Shenzhen Morlab Communication

Technology Co., Ltd.

1.4List of TestEquipments

No.	Туре	Specification
1	8960-5515CSystem	ManufacturerAgilent
	Simulator	
2	CMU 200 System	Manufacturer: R&S
	Simulator	
3	E5071BVector Network	ManufacturerAgilent
	Analyzer	
4	4*4*4 Full Anechoic	ManufacturerSatimo
	Chamber	
5	SG24Multi-probe	Manufacturer: Satimo
	Antenna Measurement	
	System	



Technical Information

Note Provideby applicant.

2.1 Applicant Information

Company Avantree Technology Co., Ltd

Address The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Shenzhen, China

Contact Shaoting.Liu
Telephone 0755-82681290

E-mail Shaoting.liu@avantronics.com

2. 2 Antenna under Test (AUT) Description

BrandName: suicen

Type Name: Bluetooth Headset

Marking Name: 2.4GHz PCBANTENNA

2.2.1 Photographsof the EUT

Please eference annex.B

2.2.2 Identification of all used EUTs

The EUT Identity consists ofnumerical and lettecharactes (seethe table below), he first five numerical characters indicates the Type of the EUT defined by Morlab, the next letter character indicates the test sample, and the following two numerical characters indicates the software version the test sample.

EUT Identity		Memo	
Αl	JT01	The antennawhich isinside the Bluetooth Headset	

Test Results

3.1 Applied Reference Documents

Leadingreferencedocuments fotesting

No.	Identity	Document Title
1	IEEE1491979	IEEE Standard Test Procedures for Antennas

Specificreferencedocuments fotesting



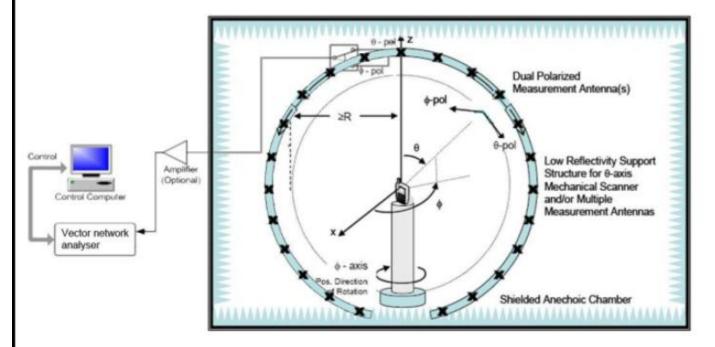
No.	Identity	Document Title
2	ETSI EN50383	Basic standard for the calculation and measurement of electromagnetic field strength and SAR related to human exportant from radio base stations and fixed terminal stations for seizel telecommunication systems (110 MHz40 GHz).

3.2 Test Conditions

Test Environment Conditions

- 1 Temperature 20 C
- 2 Relative Humidity 45/

Test Setup:



3.3 Test Results lists

3.3.1 Gain and Efficiency

AUT01 Antenna

	Frequency		
Gain(dBi)	2402MHz	2441MHz	2480MHz
	3.06669	3.14031	3.48078
Efficiency(%)	2402MHz	2441MHz	2480MHz
	29.87	31.93	32.11



Annex B Photographs

1. Testing environment



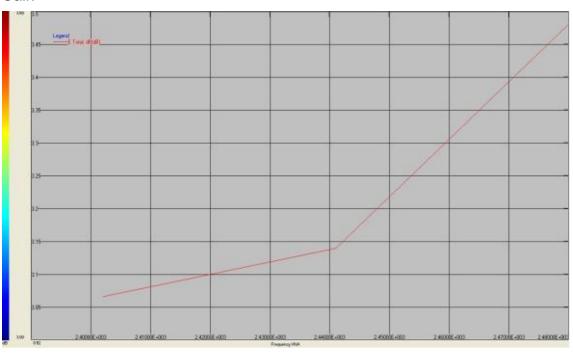
2. EUT



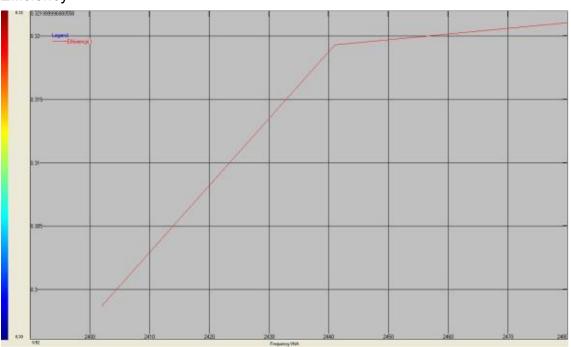


Annex CRAW Data and Figures

- I. AUT radiation pattern
 - 1. Gain

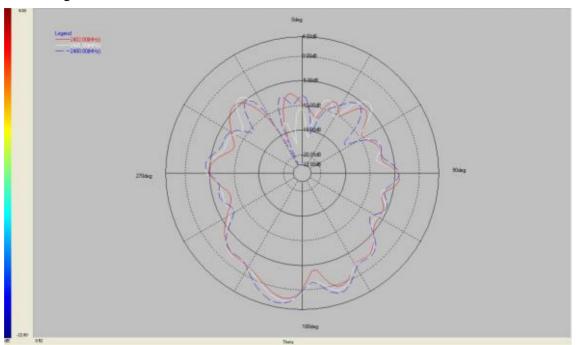


2. Efficiency

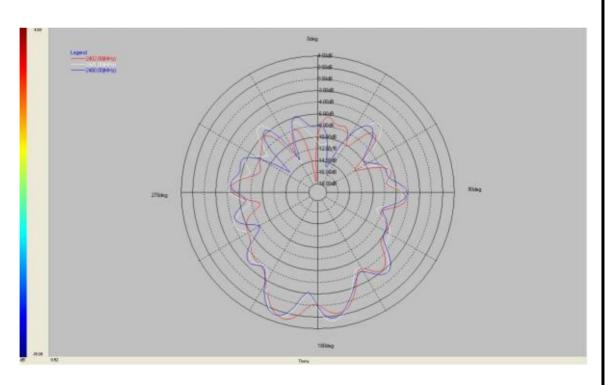




3. Phi=0degree

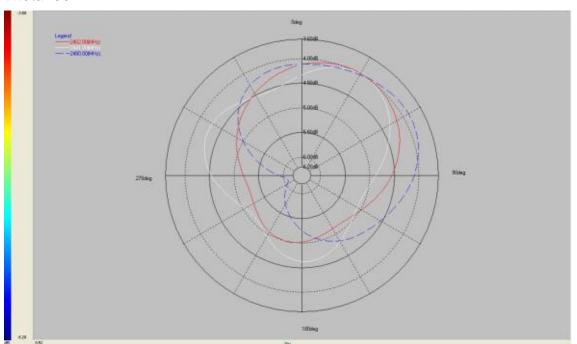


4. Phi=90degree









Antenna Dimension

