Testing Report

Customer Name: Cherub Technology Co., Ltd

Product Name: Wireless In-ear Monitoring System

Sample Model: B-7PSM

Reference Standard: *GB/T 9410-2008; ANSI/IEEE Std 149-1979*

Issue Date: 2022.10.31

Engineer: Jeremy	Date: 2022.10.28
Auditor: Eason	Date: 2022.10.31
Approver: Aaron	Date: 2022.10.31

Shenzhen RFI-LAB Communication Technology Co.,Ltd RFI-LAB

Version

Version No.	Date	Description	Formulate	Approval
A0	2022.10.31	For the first time, formulate	Jeremy	Eason

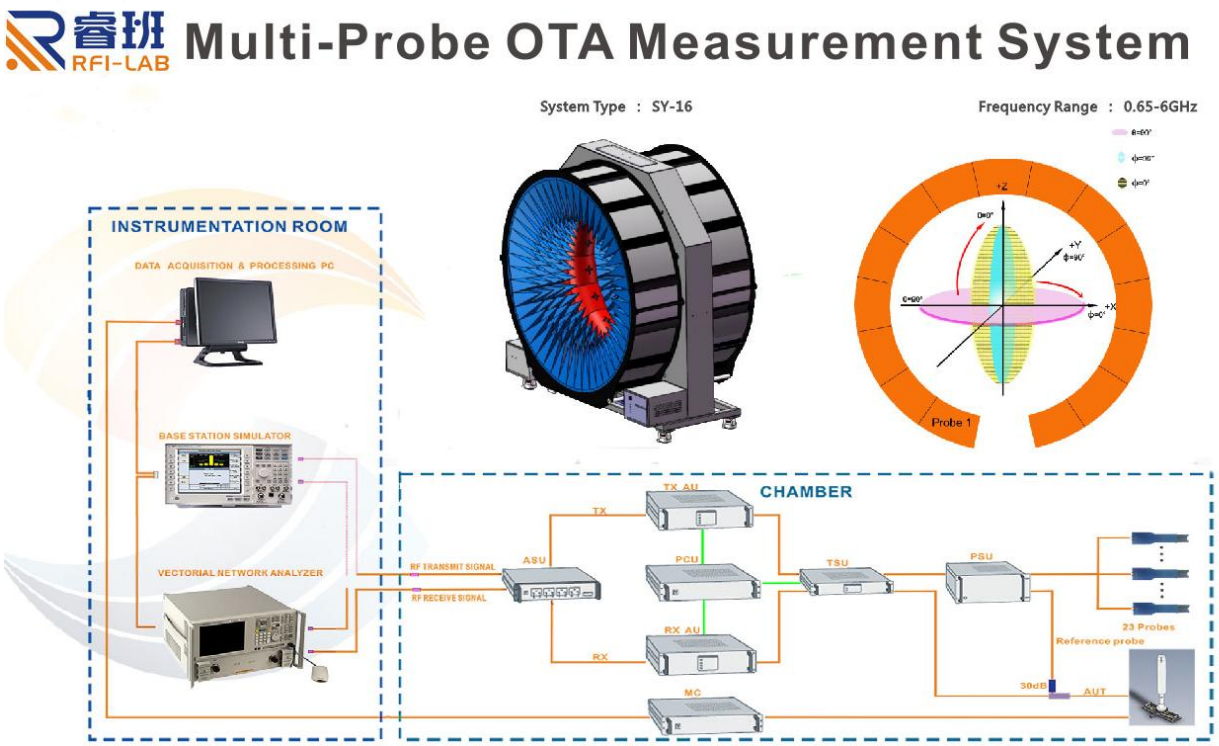
Contents

1.General Information

1.1 General information of testing institutions

Name	Shenzhen RFI-LAB Communication Technology Co., Ltd.
Address	10/F A, Lingyun Bld, Liufang Rd, Baoan District, SZ
Tel	13682621346
E-mail	rfi-lab@tech-now.com
Equipment	All the equipment used in the report is fixed in 10/F A, Lingyun Bld, Liufang Rd, Baoan District, SZ

1.2 Testing principle



1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
16 probe microwave chamber	3*3*2.5	RFI-LAB-RF-A00	SUNYIELD	2021.3.15	2023.3.14
Network Analyzer	E5071C	RFI-LAB-RF-A02	Agilent	2022.5.13	2023.5.12

1.4 Test environment

Temperature	23.2℃
Humidity	58%RH
Pressure	100.19kPa

1.5 Statement

(1) The test results in the report are only applicable to the tested samples and the tested samples work under the environment described in the report.
(2) Only Shenzhen RFI-LAB Communication Technology Co., Ltd. have the right to modify the report, and the modification information shall be annotated in the revision form.
(3) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
(4) This report is invalid if there is any evidence that the sample information provided is falsified.
(5) The report is invalid without the signature of the auditor and approver.

2.Sample Information

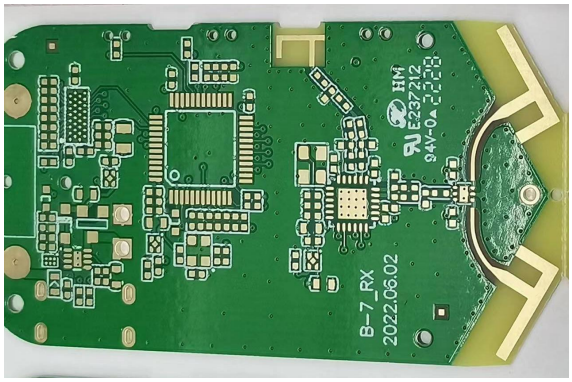
2.1 Client information

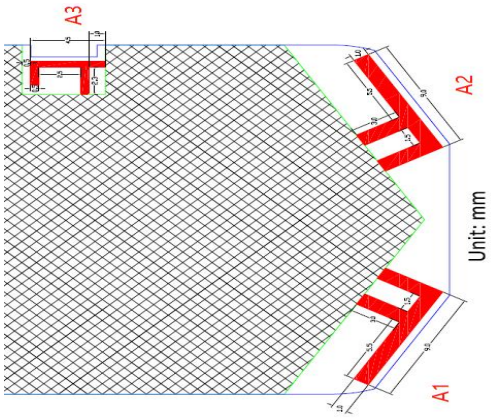
Name	Cherub Technology Co., Ltd
Address	No.10, Keji No.9Rd, Tangjiawan Town, Zhuhai National Hi-tech Industrial Development Zone, Zhuhai City, Guangdong Province, China, 519080
Contacts	Cicheng Fang
Tel	15013890439
E-mail	Fcc@cherub.cn
Manufacturer	Cherub Technology Co., Ltd (Zhuhai High-tech Park）

2.2 Description of EUT(S)

Product Name	Wireless In-ear Monitoring System
Sample Model	B-7PSM
Size	/
Serial No.	/
Test Item	Antenna gain; Efficiency; Radiation pattern
Frequency Range	5725MHz-5850MHz;
Received Date	2022.10.28
Test Date	2022.10.28
Remark	/

2.3 Antenna size

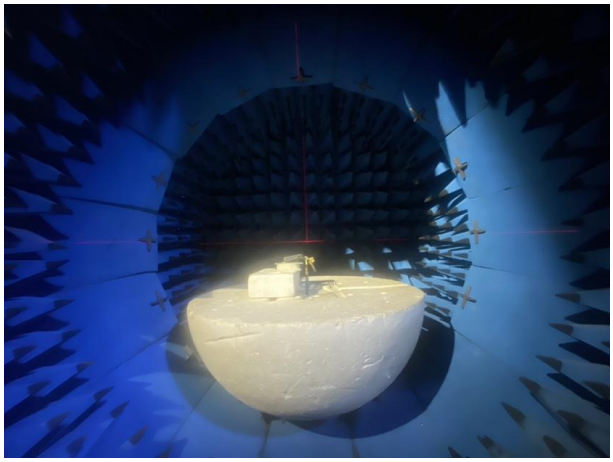




2.4 DUT setup photo of free space OTA testing

Planform

Front view



3.Test Results

3.1 Test standard

Name	Parameter	Method	Standard no.
Mobile communication antenna	Antenna gain	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Radiation pattern		
Antenna	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979
	Gain and directivity		

3.2 Test uncertainty

The uncertainty was calculated on the basis of the GUM published by ISO, using the inclusion factor of K=2 and the 95% confidence level to express the extended uncertainty.

Item	Uncertainty
Antenna gain	±1dB
Radiation efficiency	±10%

3.3 Test data

3.3.1 Typical free space efficiency and gain

A1

Frequency/MHz	5725	5750	5775	5800	5825	5850
Peak Gain/dBi	2.93	3.14	3.16	3.48	3.22	3.19
Efficiency/%	58.63	63.32	59.87	61.41	61.73	63.81

A2

Frequency/MHz	5725	5750	5775	5800	5825	5850
Peak Gain/dBi	4.89	4.75	4.69	4.71	5.03	4.53
Efficiency/%	64.94	67.71	63.86	65.13	66.08	66.08

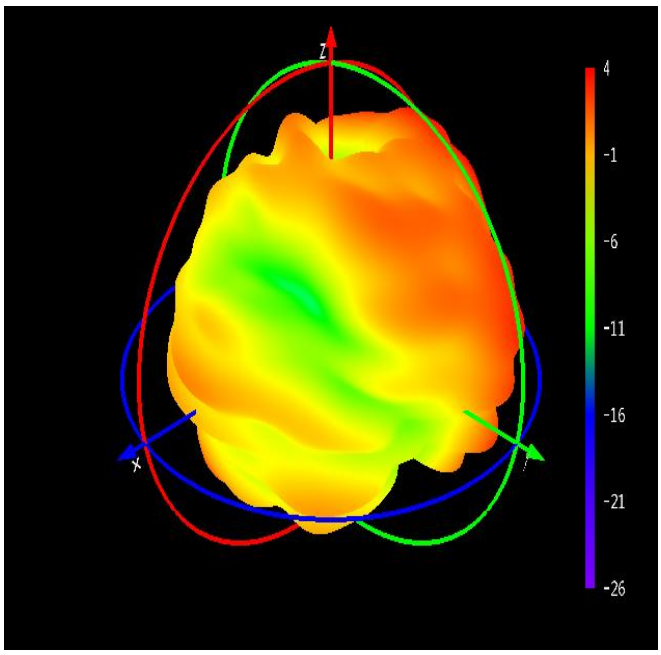
A3

Frequency/MHz	5725	5750	5775	5800	5825	5850
Peak Gain/dBi	2.44	2.68	1.95	1.94	2.03	2.03
Efficiency/%	51.10	51.50	46.17	46.76	47.26	46.85

3.3.2Typical free space radiation pattern

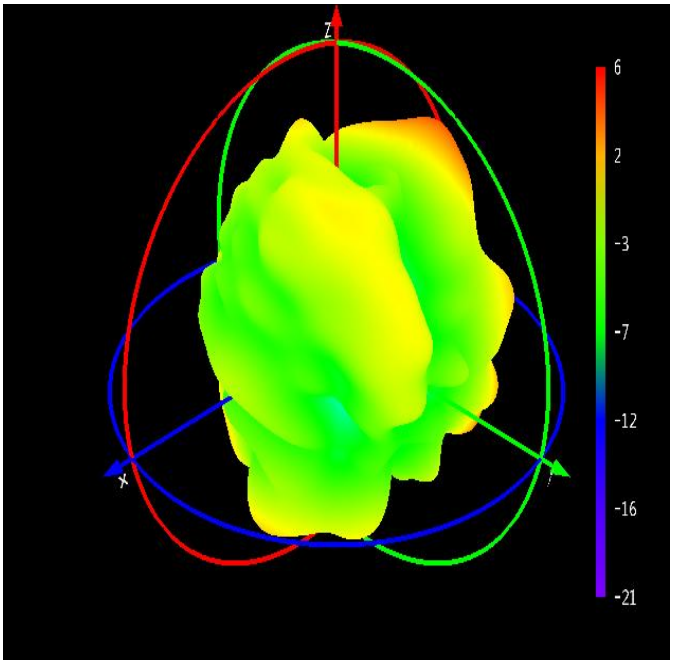
A1 5725MHz-5850MHz

Typical Free Space 3D Radiation Pattern at 5800MHz:



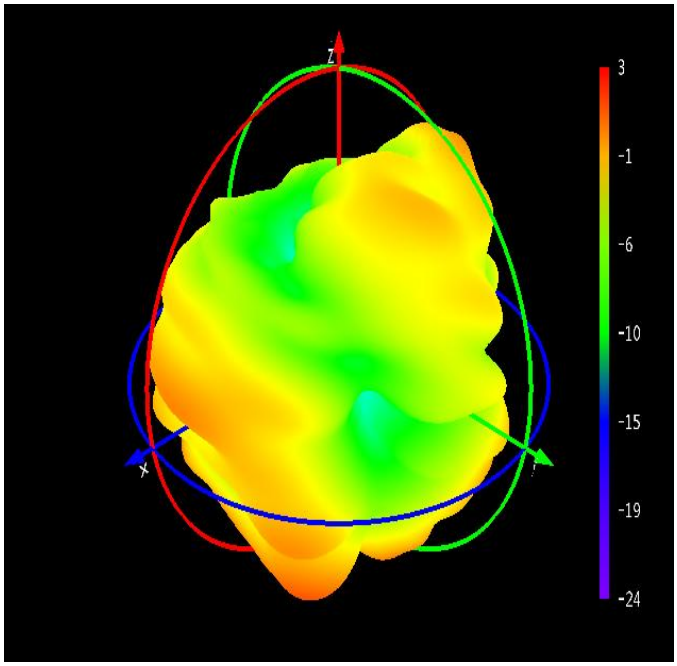
A2 5725MHz-5850MHz

Typical Free Space 3D Radiation Pattern at 5825MHz:



A3 5725MHz-5850MHz

Typical Free Space 3D Radiation Pattern at 5750MHz:



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