REPORT No.：SZ20080201E01

TEST REPORT

APPLICANT	:	Shanghai Zenchant Electornics Co.,LTD
PRODUCT NAME	:	Dual Bluetooth Module
MODEL NAME	:	ZEN-BDM10
TRADE NAME	:	Zenchant
BRAND NAME	:	Zenchant
STANDARD(S)	:	ANSI/IEEE Std 149-2008
RECEIPT DATE	:	2020-08-18
TEST DATE	:	2020-08-18
ISSUE DATE	:	2020-08-20

Edited by: Ke Zhiqing(Rapporteur)

Approved by: Chi Shide(Supervisor)

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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2020-08-20	First edition

1. Technical Information

Note: Provide by manufacturer.

1.1. Applicant and Manufacturer Information

Applicant:	Shanghai Zenchant Electornics Co.,LTD
Applicant Address:	Room 1202, building a, Noble international, 908 Xiuwen Road, Minhang District， ShangHai
Manufacturer:	N/A
Manufacturer Address:	N/A

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth
Hardware Version	N/A
Software Version	N/A

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

2.2. Test Conditions

Test Environment Conditions：

Relative Humidity:	25 ... 75 %
Temperature:	+10 °C to +30 °C

2.3. Test Results lists

2.3.1. Gain and Efficiency

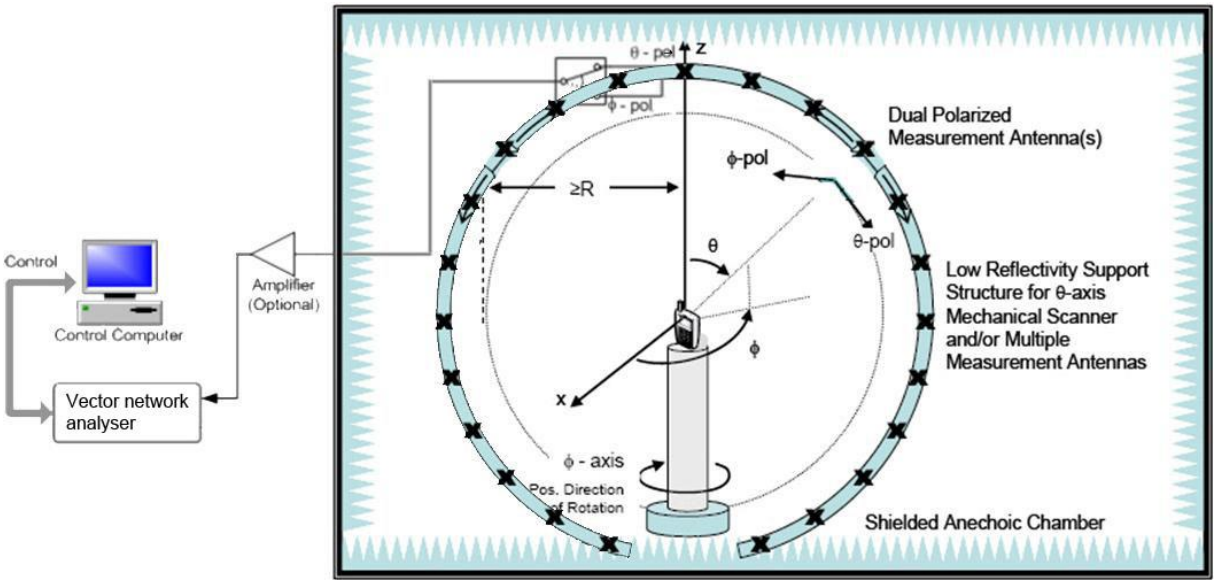
Frequency	Gain(dBi)	Efficiency
2400MHz	-1.80	10.52%
2410MHz	-1.39	14.88%
2420MHz	-1.92	11.13%
2430MHz	-1.77	11.44%
2440MHz	-1.76	10.77%
2450MHz	-1.72	9.78%
2460MHz	-2.73	8.47%
2470MHz	-2.10	9.98%
2480MHz	-1.99	8.77%
2490MHz	-2.28	8.15%
2500MHz	-3.23	6.49%

2.3.2. VSWR and Impedance

Frequency	VSWR	Impedance (Ω)
2400MHz	2.79	30.01
2440MHz	2.80	30.02
2450MHz	3.02	29.31
2480MHz	3.59	27.56
2500MHz	4.08	27.74

Annex A Photographs

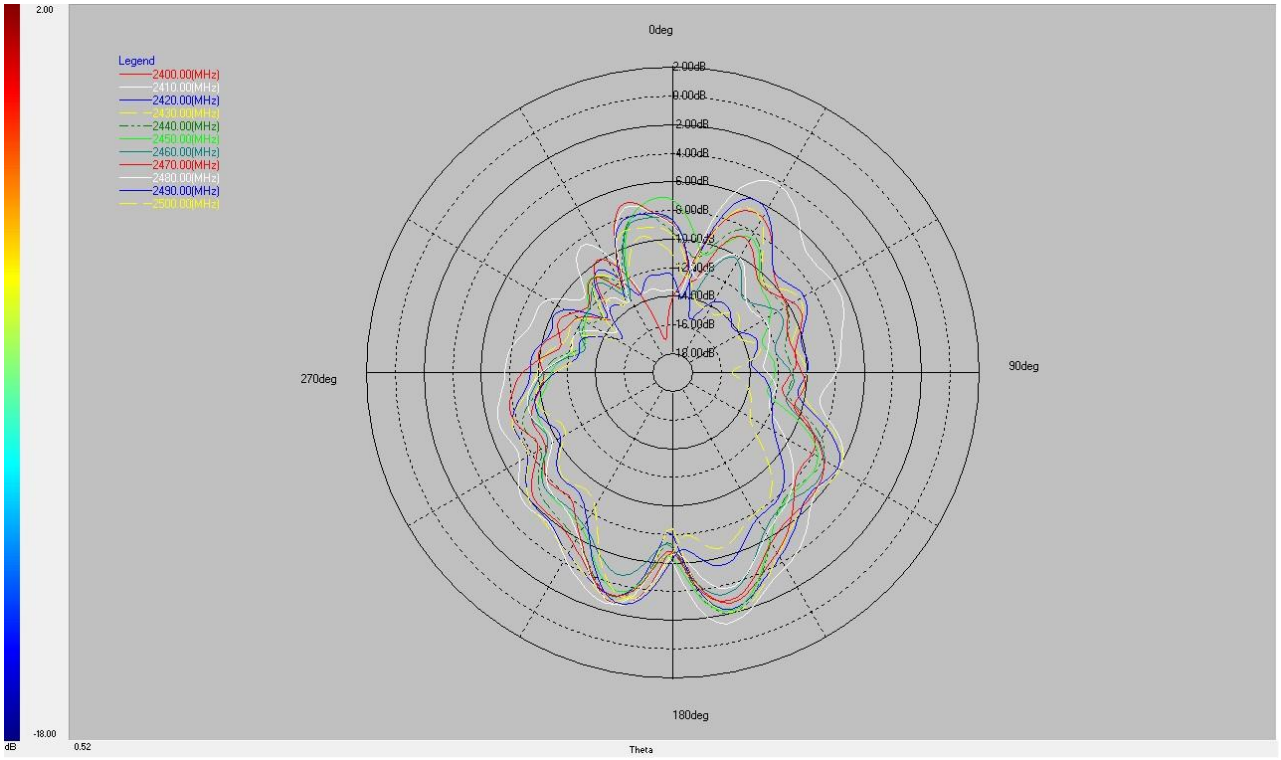
1. Test Setup



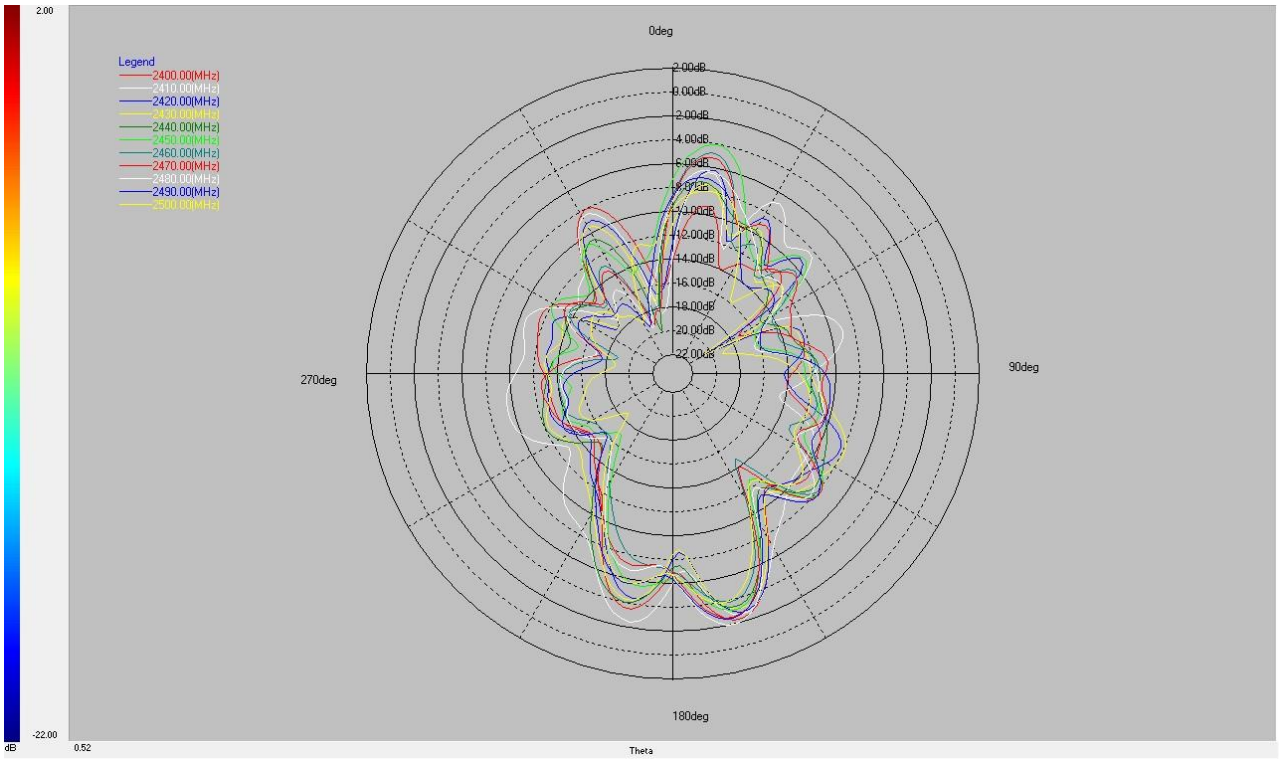
Annex B Figures

1. 2D Radiation Pattern

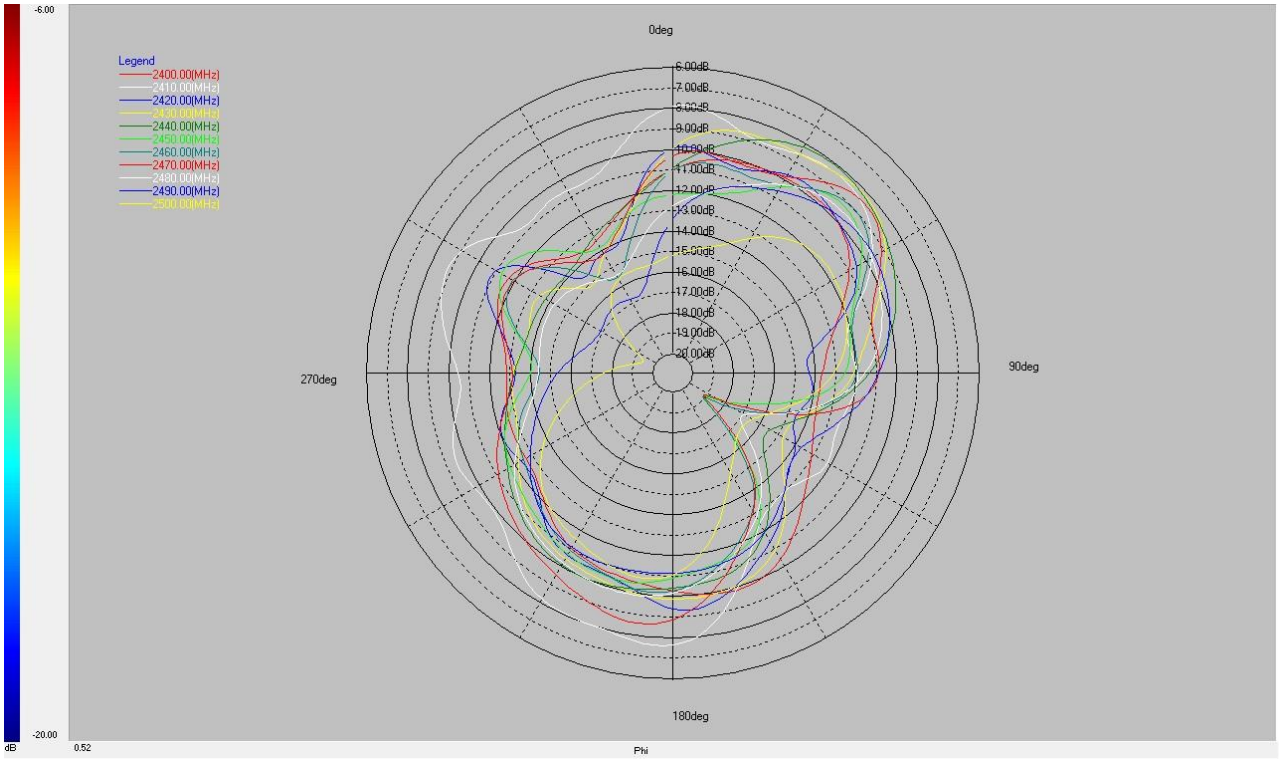
Phi=0°



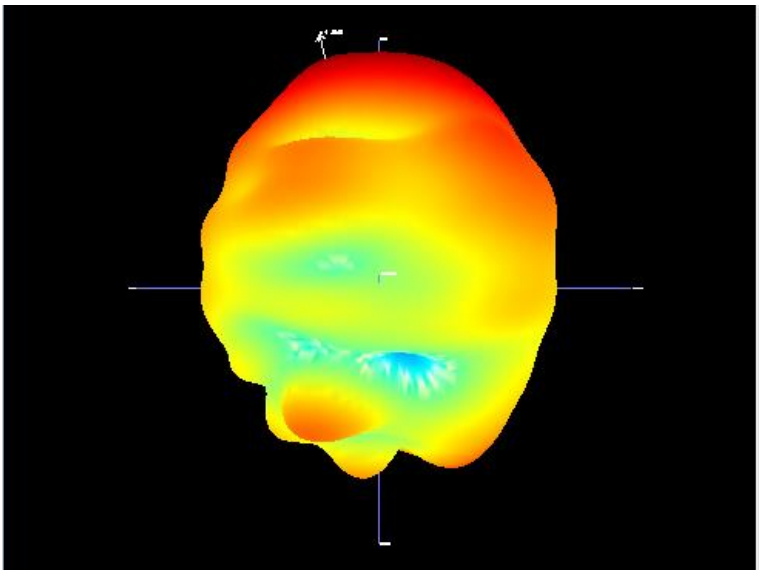
Phi=90°



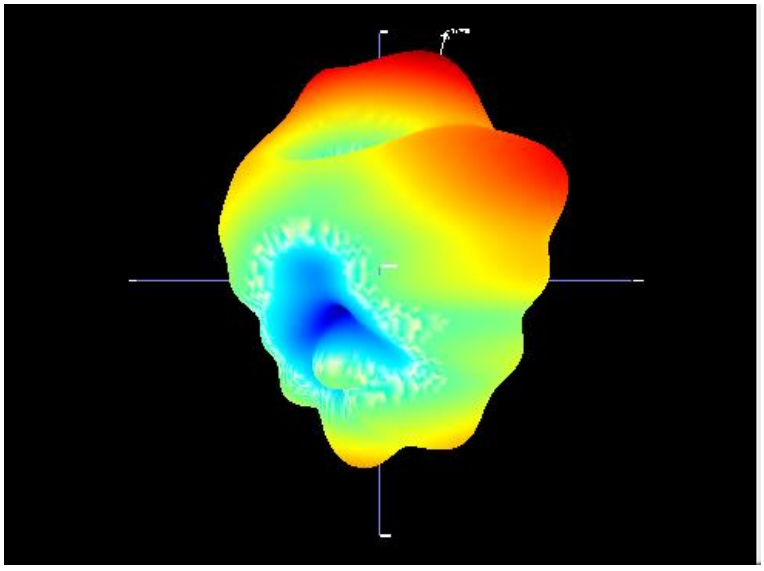
Theta=90°



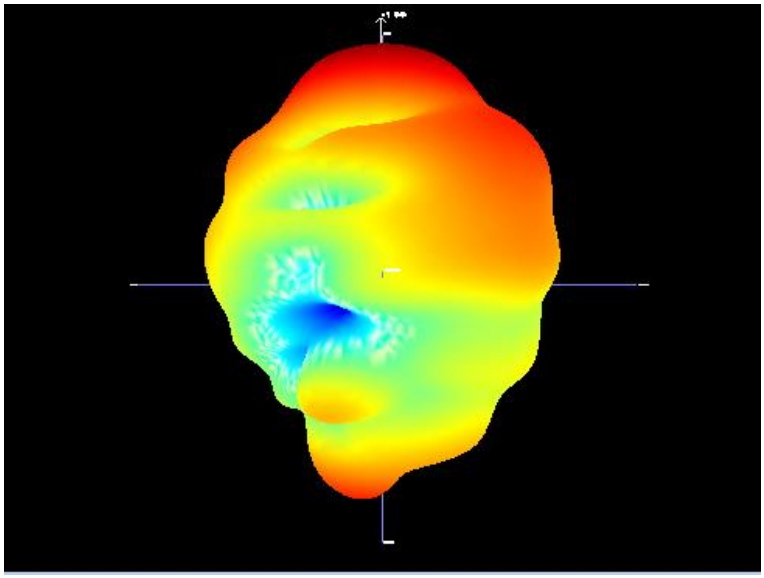
2. 3D Radiation Pattern



2400MHz



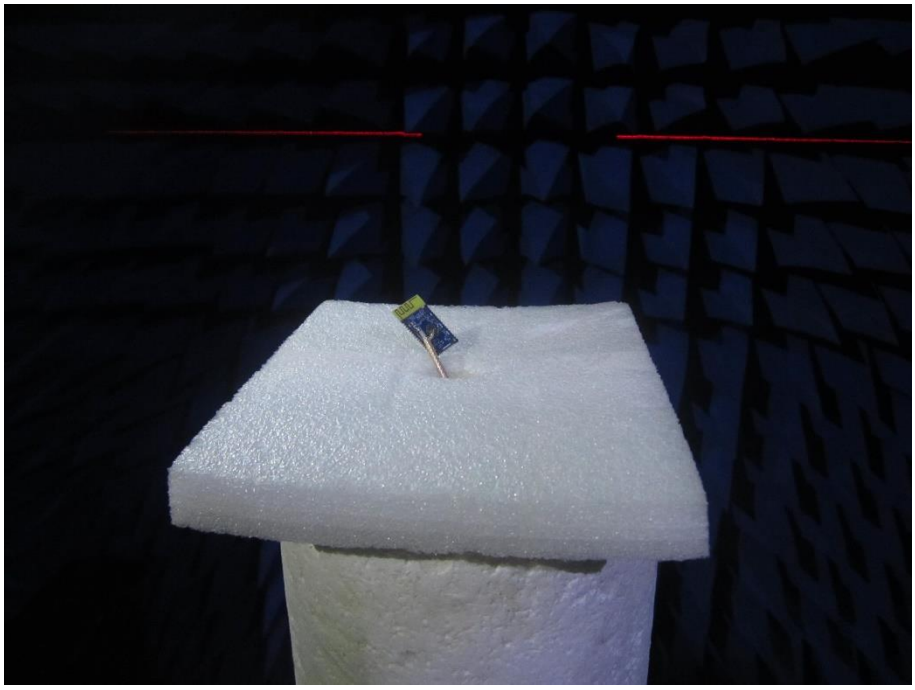
2440MHz



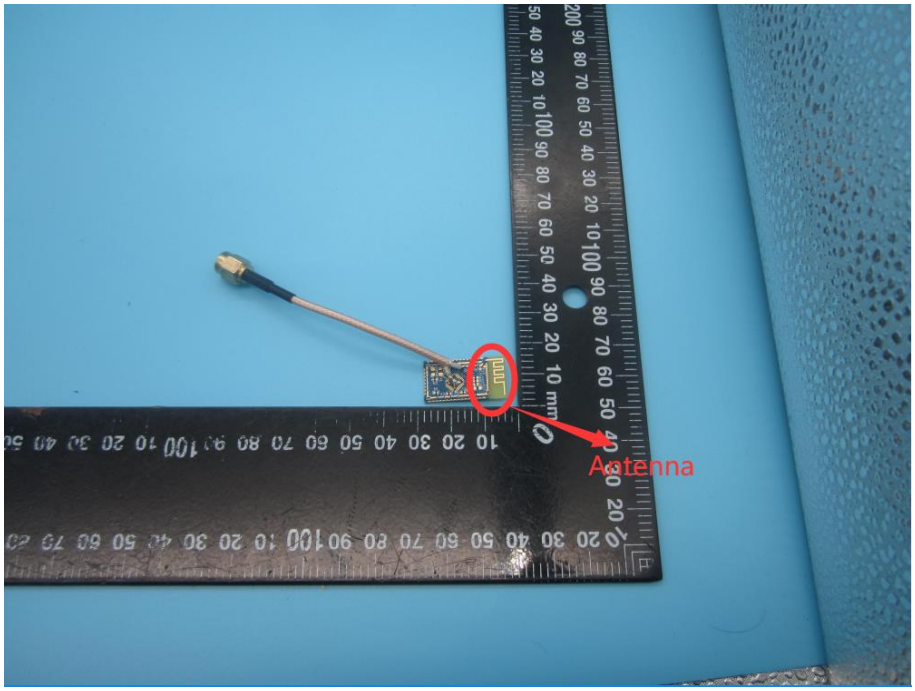
2480MHz

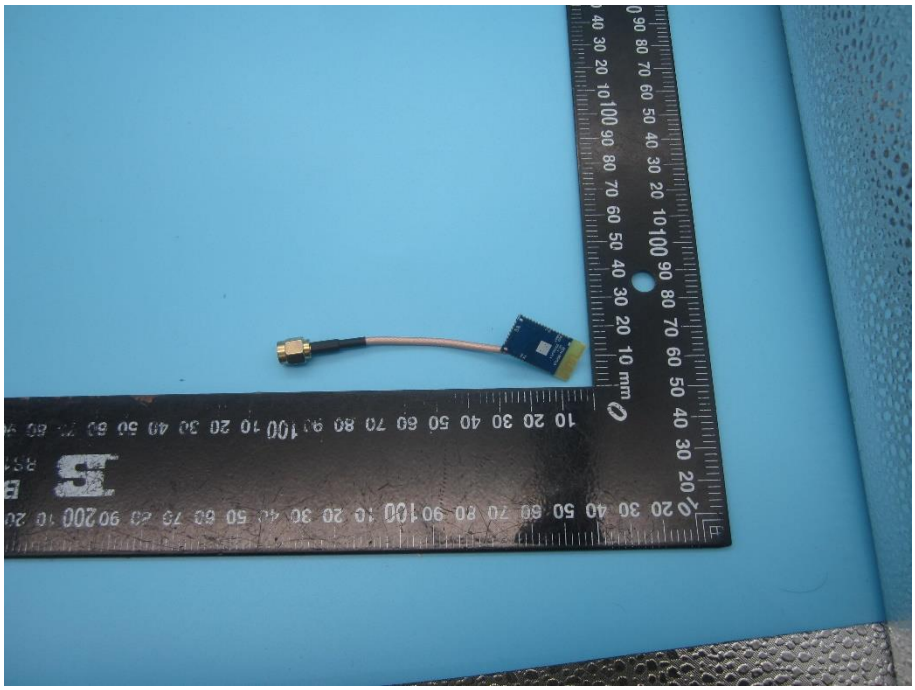
Annex C Photographs

1. Test environment



2. EUT





Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Laboratory Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
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Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

1.3 Test Equipments Utilized

1.3.1 List of Test Equipment

No.	Type	Specification
1	E5071C Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: Satimo
3	SG24 Multi-probe Antenna Measurement System	Manufacturer: Satimo

END OF REPORT