



REPORT No. : SZ19080340E01

TEST REPORT

Applicant : SHANGHAI MOUNTAIN VIEW SILICON CO., LTD

PRODUCT NAME : MV_BP10xx PCB Antenna

MODEL NAME : MV_BP10

TRADE NAME : MVSILICON

BRAND NAME : MVSILICON

STANDARD(S) : ANSI/IEEE Std 149-2008

RECEIPT DATE : 2019-08-30

TEST DATE : 2019-09-02

ISSUE DATE : 2019-10-15



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REPORT No. : SZ19080340E01

DIRECTORY

1. Technical Information.....	3
1.1. Manufacturer and Factory Information	3
1.2. Equipment Under Test (EUT) Description	3
2. Test Results	4
2.1. Applied Reference Documents	4
2.2. Test Conditions	4
2.3. Test Results lists	4
Annex A Photographs	6
Annex B Figures	7
1. 2D Radiation Pattern	7
2. 3D Radiation Pattern	9
3. Return Loss	10
4. VSWR.....	11
5. Input Impedance	11
Annex C Photographs.....	12
Annex D General Information	14
1.1 Identification of the Responsible Testing Laboratory	14
1.2 Identification of the Responsible Testing Location	14
1.3 Test Equipments Utilized	14

Change History		
Version	Date	Reason for change
1.0	2019-10-15	First edition



REPORT No. : SZ19080340E01

1. Technical Information

Note: Provide by manufacturer.

1.1. Manufacturer and Factory Information

Applicant:	SHANGHAI MOUNTAIN VIEW SILICON CO., LTD
Applicant Address:	Suite 4C, Building 3, 1238 Zhangjiang Road, Pudong New District, Shanghai, China
Manufacturer:	SHANGHAI MOUNTAIN VIEW SILICON CO., LTD
Manufacturer Address:	Suite 4C, Building 3, 1238 Zhangjiang Road, Pudong New District, Shanghai, China

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	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

Frequency	Gain(dBi)
2400MHz	2.81
2410MHz	2.74
2420MHz	3.38
2430MHz	2.73
2440MHz	1.01
2450MHz	1.26
2460MHz	1.50
2470MHz	1.49
2480MHz	1.42
2490MHz	0.36
2500MHz	0.33



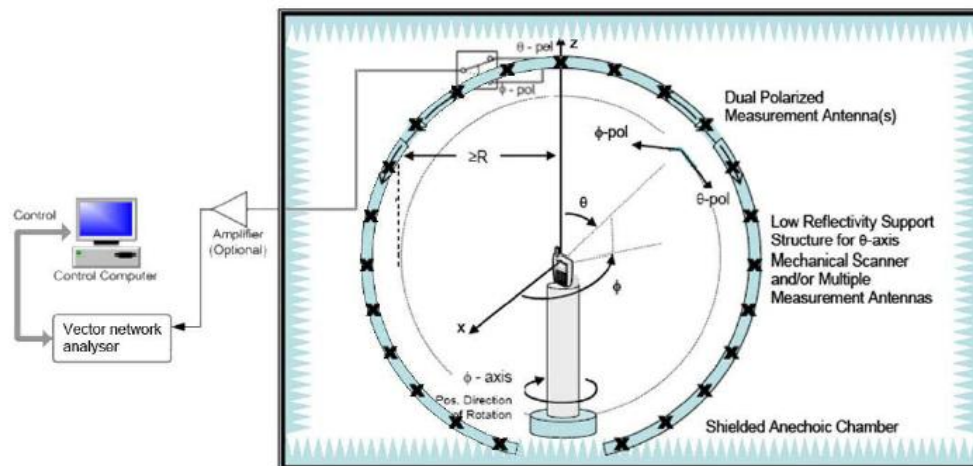
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2.3.2.Return Loss/VSWR/Input Impedance

Frequency	Return Loss (dB)	VSWR	Input Impedance(Ω)
2400MHz	-7.23	2.53	25.37
2440MHz	-6.47	2.80	17.99
2450MHz	-6.22	2.90	17.18
2480MHz	-5.18	3.44	15.55
2500MHz	-4.56	3.89	15.48

Annex A Photographs

1. Test Setup

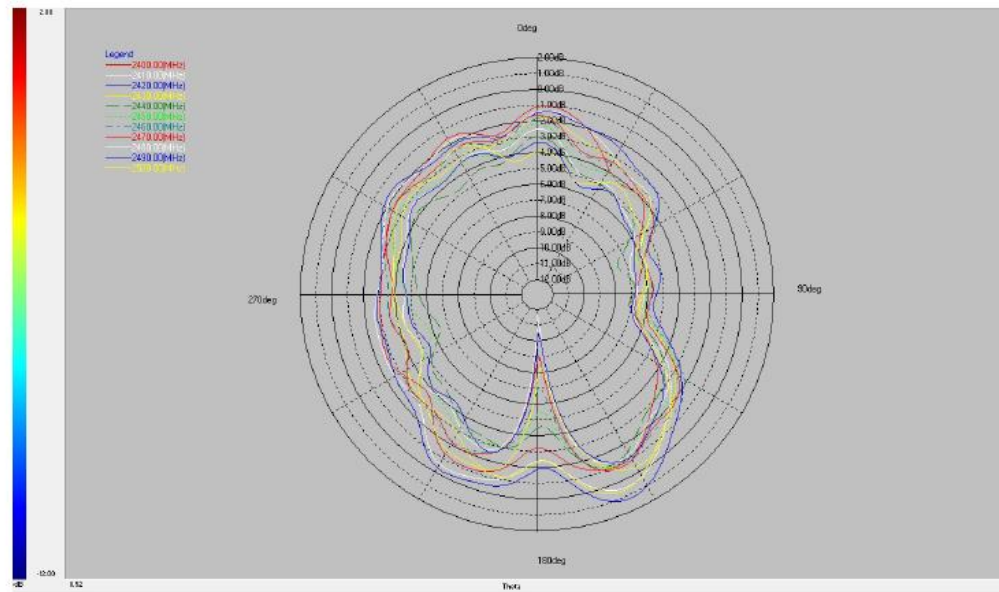




Annex B Figures

1. 2D Radiation Pattern

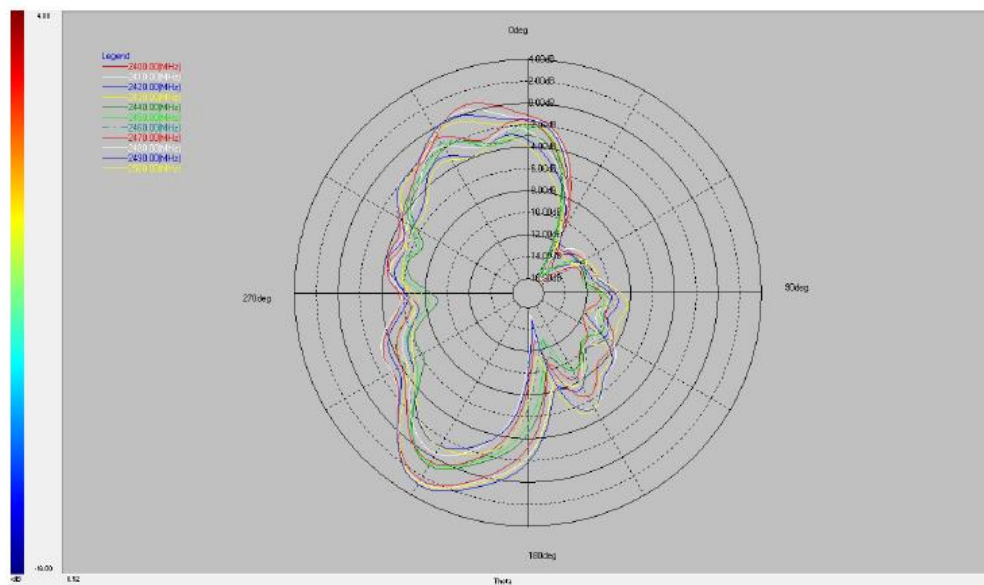
Phi=0°



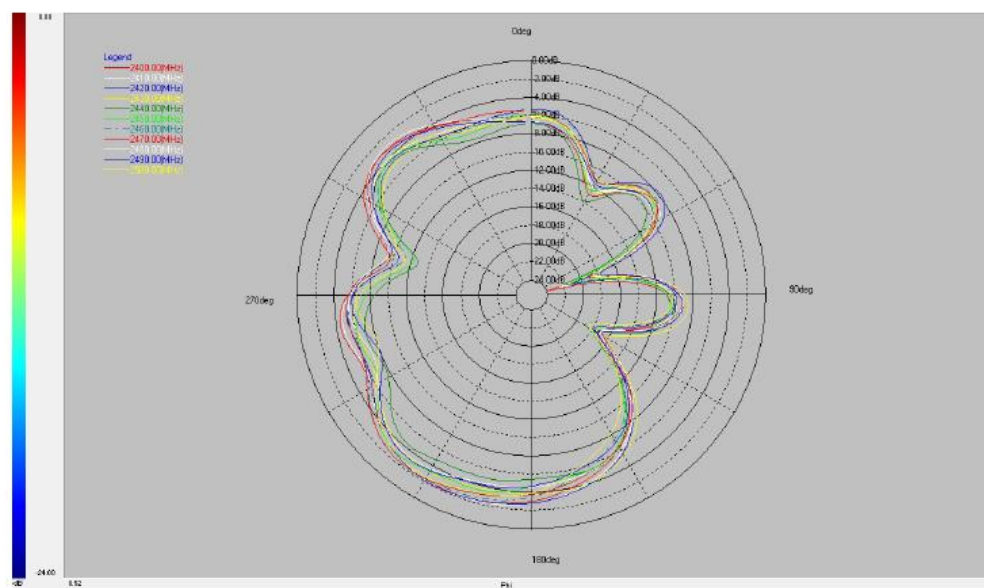


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Phi=90°



Theta=90°



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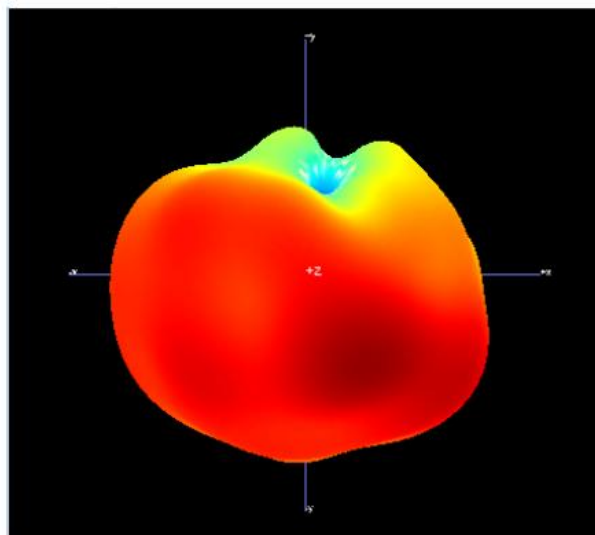
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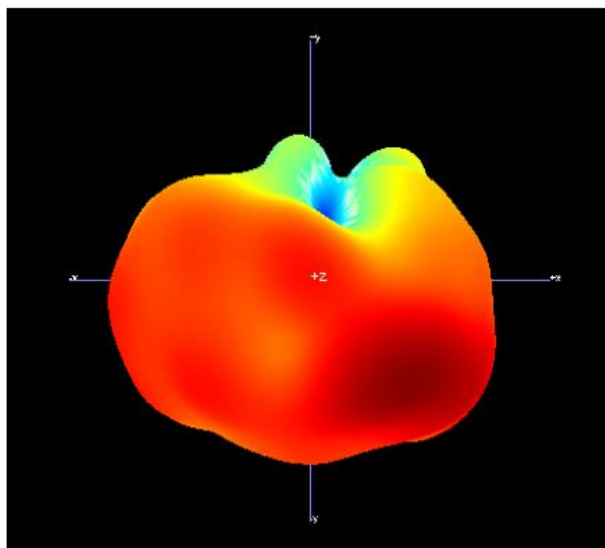


REPORT No. : SZ19080340E01

2. 3D Radiation Pattern



2400MHz



2450MHz

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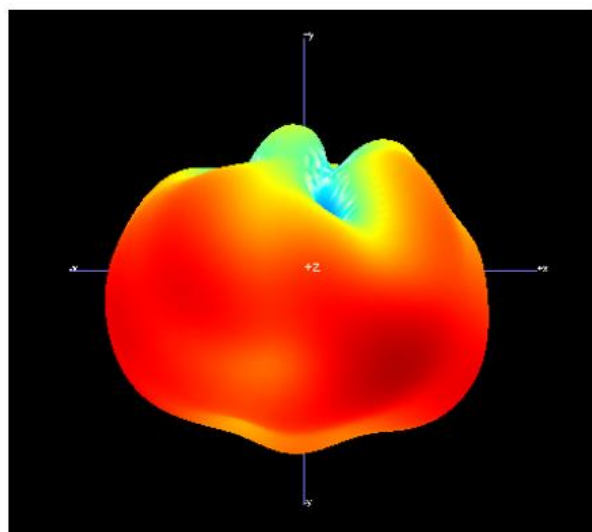
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2500MHz

3. Return Loss



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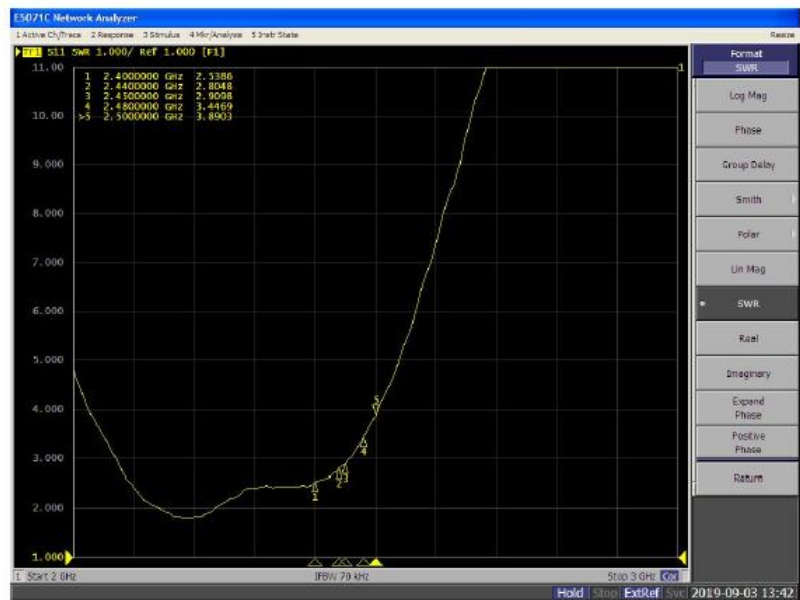
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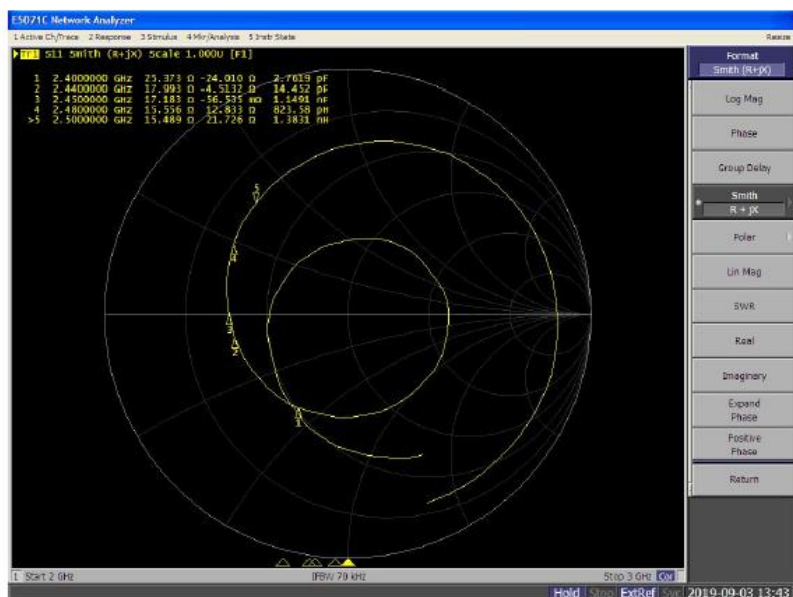


REPORT No. : SZ19080340E01

4. VSWR



5. Input Impedance



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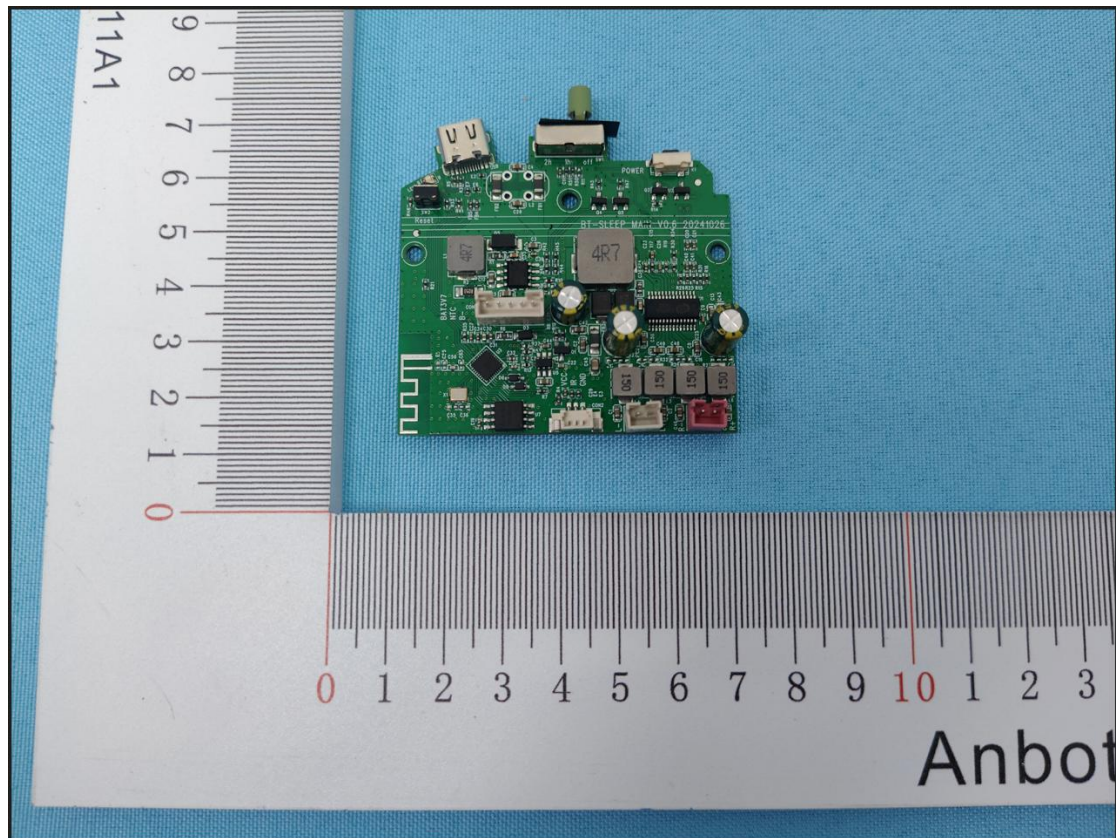
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Annex D General Information

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
Telephone:	+86 755 36698555
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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



REPORT No. : SZ19080340E01

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 —————