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# **Antenna Data Sheet**

## **Catalogue**

- 1. Capability Status**
- 2. Antenna Location**
- 3. Antenna Passive Efficiency**
- 4. Simple Antenna Pattern Plot**
- 5. Antenna return loss**

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## 1. Capability Status

### a. Main software and hardware facilities for antenna R&X

#### Equipment introduction

Shanghai: Satimo:2 GTS1800:3 NFC Micropross:1

SAR DASY 5:1

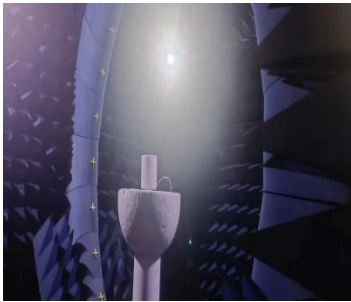
Shenzhen: GTS1800:1 GTS2800:1 NFC Micropross:1

Xian: GTS2800:1

Beijing: GTS1800:2 GTS2800:1

Kunshan: GTS2800:1 Satimo:2 GTS1800:3

SAR DASY 4:2



Satimo SG24



GTS2800



DASY4/5



NFC

b. Full category testing capability

Support system

GSM/WCDMA/EVDO/TDSCDMA/TDD/FDD/5G-SA/5G-NSA/eMTC/NB-iot/GPS/WiFi/BT/  
CA/ENDC

Common equipment

SP9500

Anritsu MT8820C

5071C

CMW500

DASY4/5 SAR



**StarPoint SP9500**

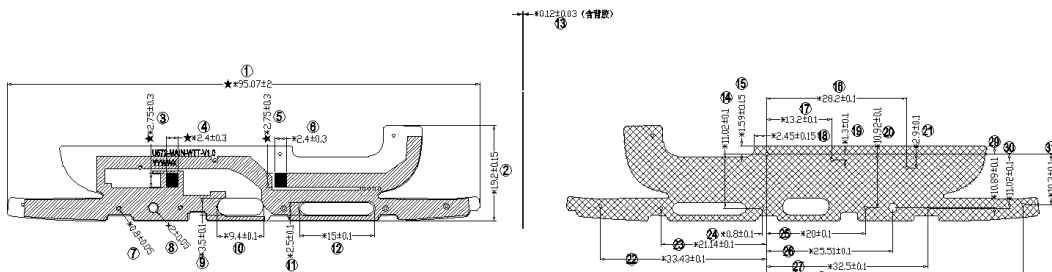


**Anritsu MT8820C**

2. **Antenna Location**

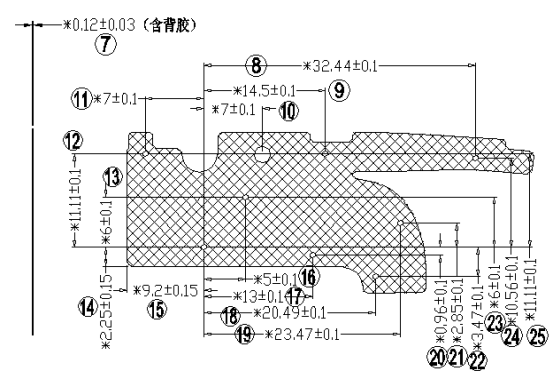
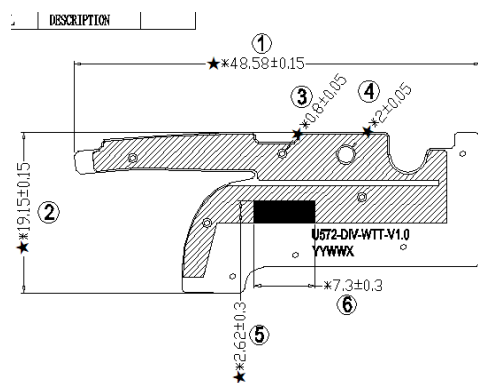
ANT1: WCDMA B1/2/4/5/8 TRX

LTE B2/3/4/5/7/12/14/20/29/30/66 TRX

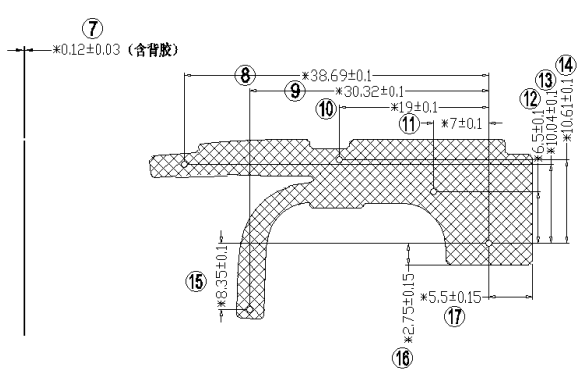
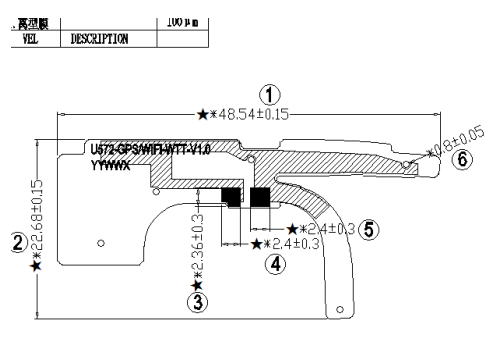


ANT2:WCDMA B1/2/4/5/8 DRX

LTE B2/3/4/5/7/12/14/20/29/30/66 DRX



### ANT3:2.4+5WIFI/GPS/BT



## Antenna Vendor

Welletronics Communication technology Co.,Ltd.  
Website:<http://www.wtt-china.cn>

Tel: 86-0755-29076623 29076625

Fax: 86-0755-21633856

Address: 1~3F, No.8, Tongfu Estate, Xinshi Community, Dalang Street, Longhua District, Shenzhen, China

Antenna model number: WTT- U572AA

### 3. Antenna Passive Efficiency

#### a. Antenna1

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
WCDMA	WCDMAB1	-6.4dBi	-8.35dBi	-3.14dBi	-3.24dBi
	WCDMAB2	-5.17dBi	-6.59dBi	-1.5dBi	-2.36dBi
	WCDMAB4	-4.64dBi	-8.35dBi	0.14dBi	-3.27dBi
	WCDMAB5	-7.4dBi	-8.07dBi	-2.56dBi	-3.87dBi
	WCDMAB8	-8.83dBi	-10.99dBi	-4.87Bi	-6.56dBi
LTE	Band 2	-5.17dBi	-6.59dBi	-1.5dBi	-2.36dBi
	Band 3	-4.66dBi	-4.59dBi	0.16dBi	-0.94dBi
	Band 4	-4.67dBi	-7.64dBi	-0.02dBi	-2.95dBi
	Band 5	-7.57dBi	-8.07dBi	-3.15dBi	-4.12dBi
	Band 7	-8.01dBi	-9.61dBi	-2.36dBi	-4.17dBi
	Band 12	-6.63dBi	-6.72dBi	-1.42dBi	-1.55dBi
	Band 14	-7.24dBi	-6.99dBi	-1.88dBi	-1.51dBi
	Band 20	-7.57dBi	-7.22dBi	-3.15dBi	-1.97dBi
	Band 29	/	-6.72dBi	/	-1.55dBi
	Band 30	-5.16dBi	-5.51dBi	-0.24dBi	0.25dBi
Band 66	-4.67dBi	-7.64dBi	-0.02dBi	-2.95dBi	

#### b. Antenna2

Band	Average Gain		Maximum Gain	
	TX	RX	TX	RX

WCDMA	WCDMAB1	/	-3.6dBi	/	-0.1dBi
	WCDMAB2	/	-3.8dBi	/	-1.0dBi
	WCDMAB4	/	-3.6dBi	/	-0.1dBi
	WCDMAB5	/	-13.4dBi	/	-9.7dBi
	WCDMAB8	/	-8.0dBi	/	-4.5dBi
LTE	Band 2	/	-3.8dBi	/	-1.0dBi
	Band 3	/	-5.9dBi	/	-3.5dBi
	Band 4	/	-3.6dBi	/	-0.1dBi
	Band 5	/	-13.4dBi	/	-9.7dBi
	Band 7	/	-4.3dBi	/	-1.1dBi
	Band 12	/	-9.0dBi	/	-6.1dBi
	Band 14	/	-9.2dBi	/	-6.2dBi
	Band 20	/	-8.4dBi	/	-5.2dBi
	Band 29	/	-9.4dBi	/	-6.6dBi
	Band 30	/	-5.0dBi	/	-1.1dBi
Band 66	/	-3.4dBi	/	0.2dBi	

#### c. Antenna3

Band		Average Gain		Maximum Gain	
		TX	RX	TX	RX
GPS	L1 1575.5	/	-4.5dBi	/	0.1dBi
WIFI 2.4G	2.4Ghz-2.5Ghz	-4.9dBi	-4.9dBi	0.2dBi	0.2dBi
WIFI 5G	5.15Ghz-5.85Ghz	-4.8dBi	-4.8dBi	0.5dBi	0.5dBi
BT	2.4Ghz-2.5Ghz	-4.9dBi	-4.9dBi	0.2dBi	0.2dBi

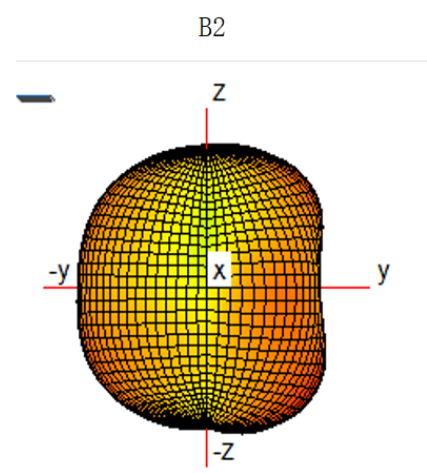
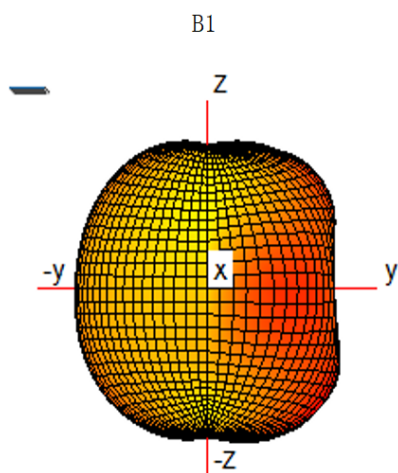
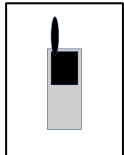
#### d. NFC

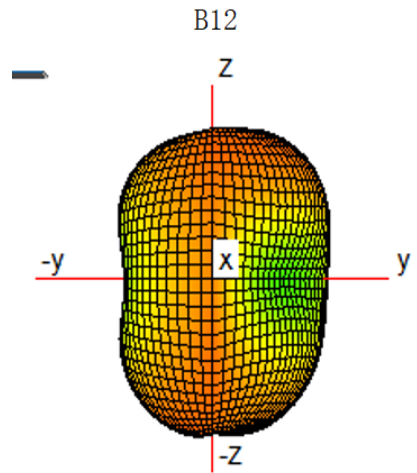
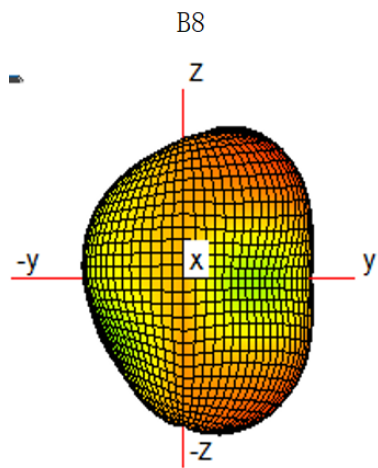
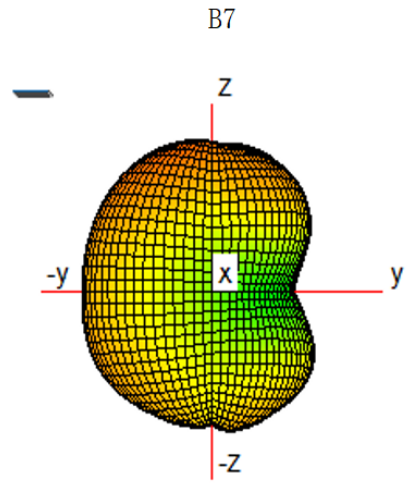
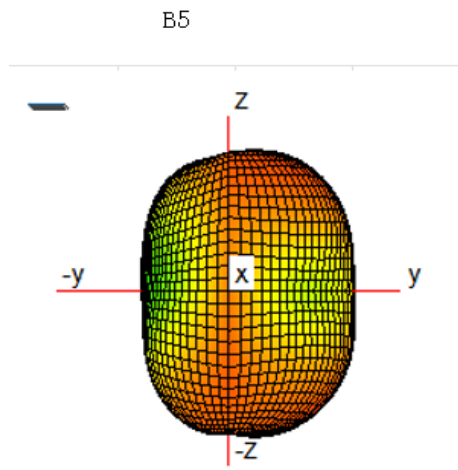
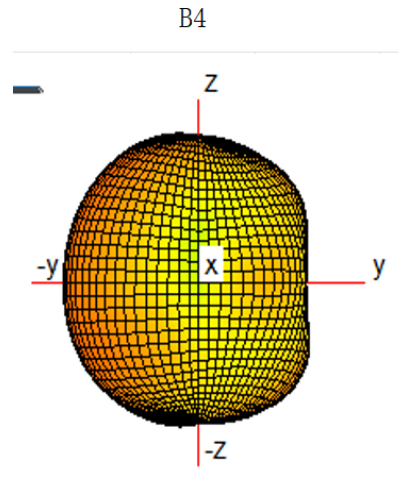
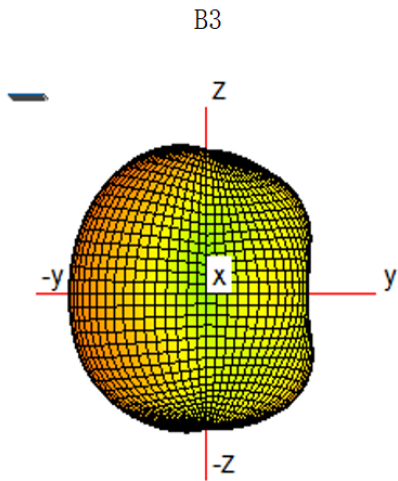
The devices does not support the test of NFC gain. In addition, all measurements were performed radiated and therefore additional antenna gain documentation is not required.

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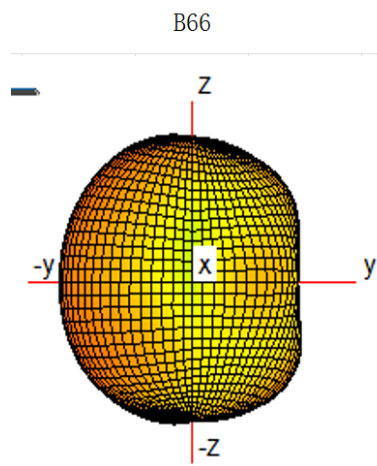
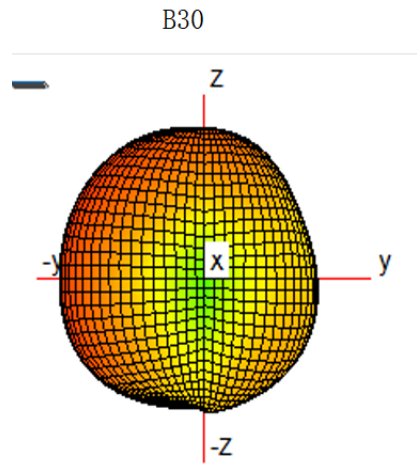
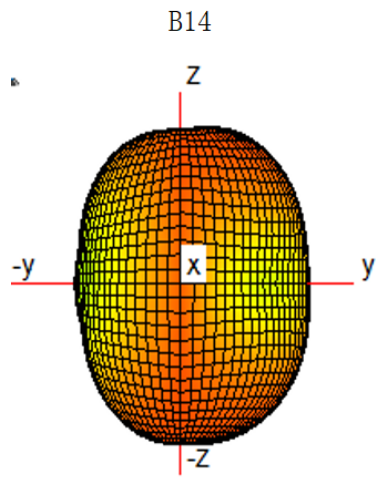
## 4. Simple Antenna Pattern Plot

a. Antenna 1

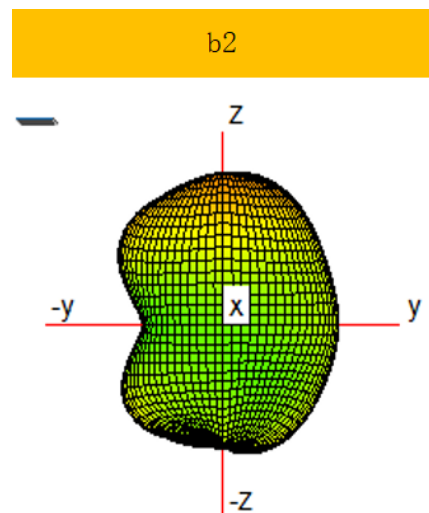
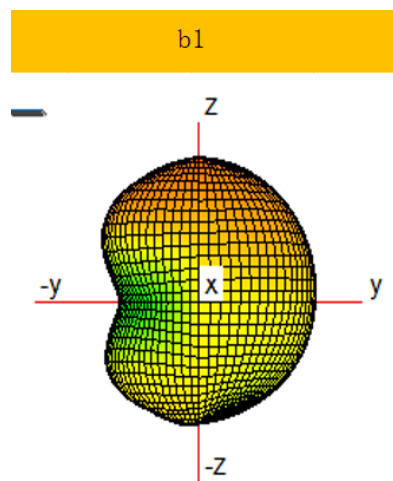
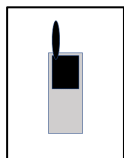




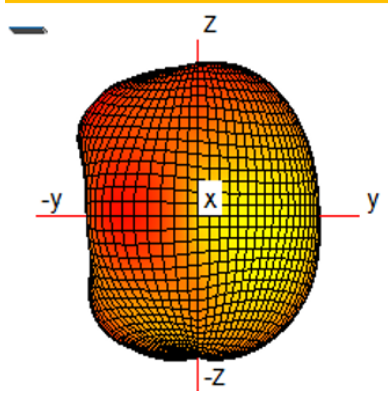




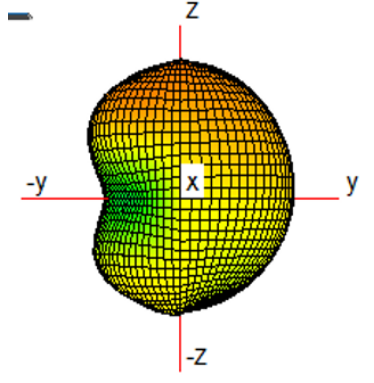
b. Antenna2



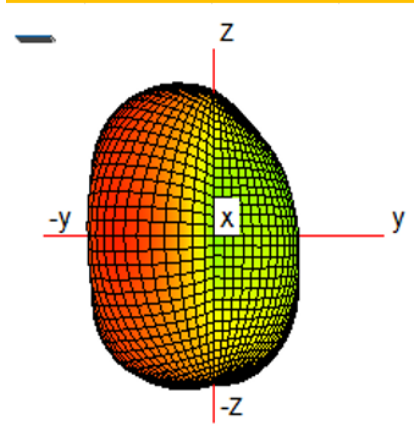
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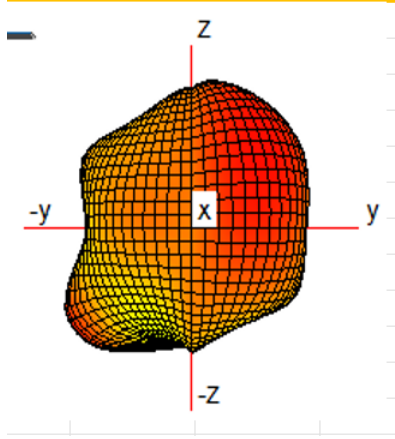
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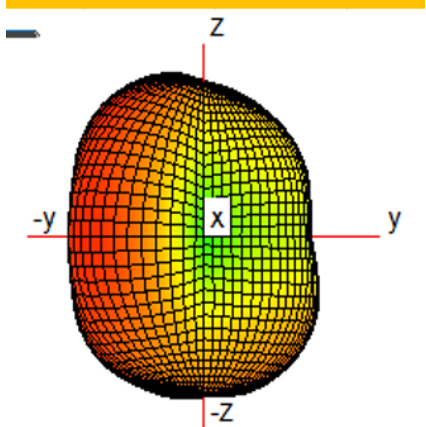
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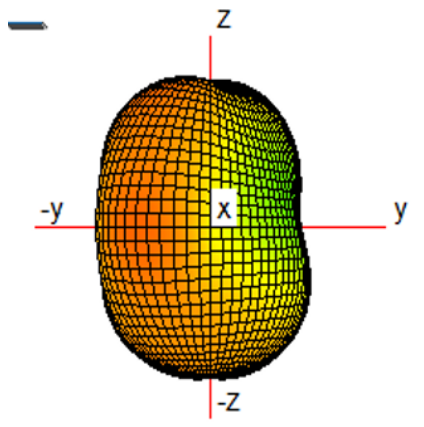
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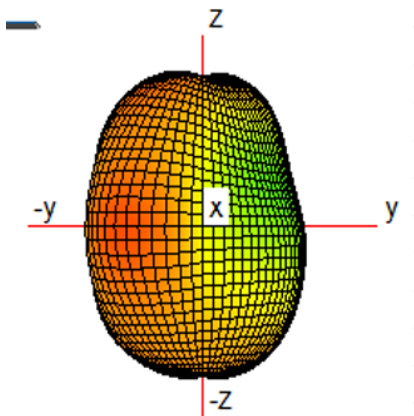
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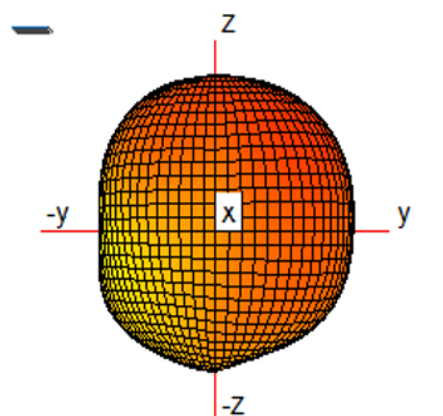
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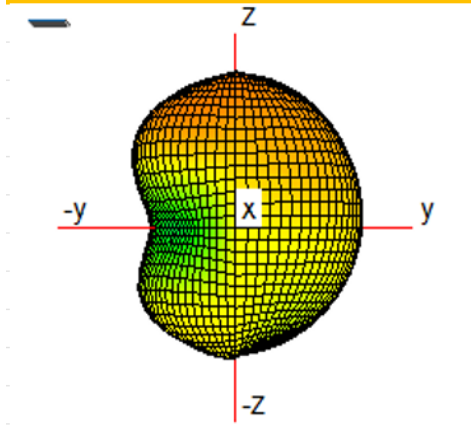
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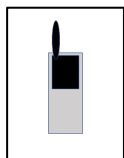
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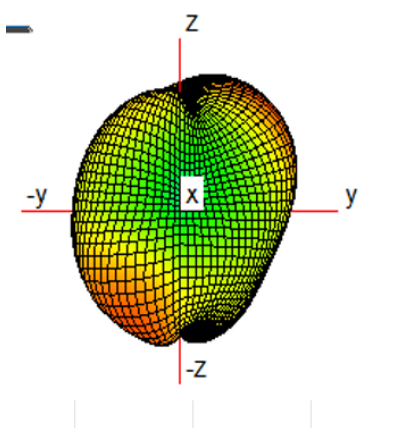
b66



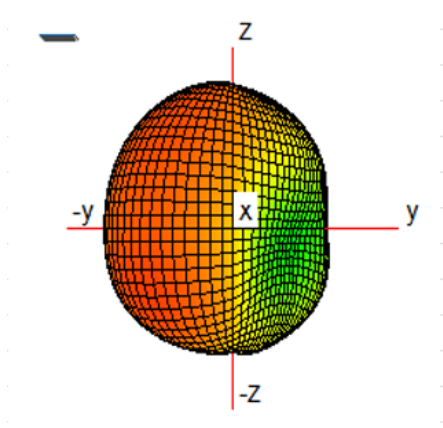
c.Antenna3



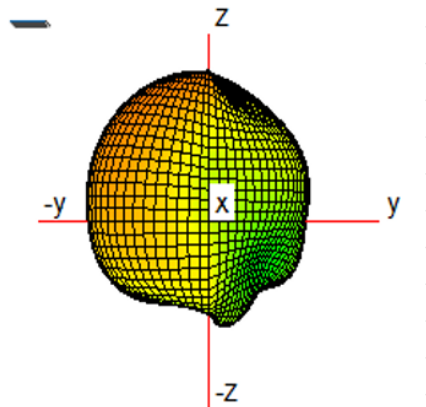
GPS



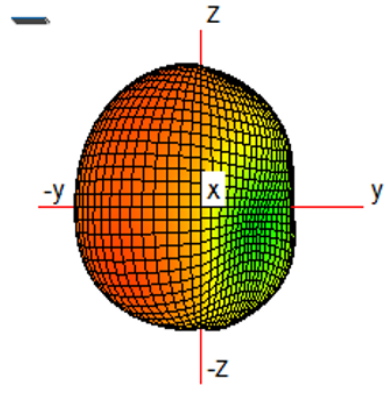
WIFI 2.4G



## WIFI 5G



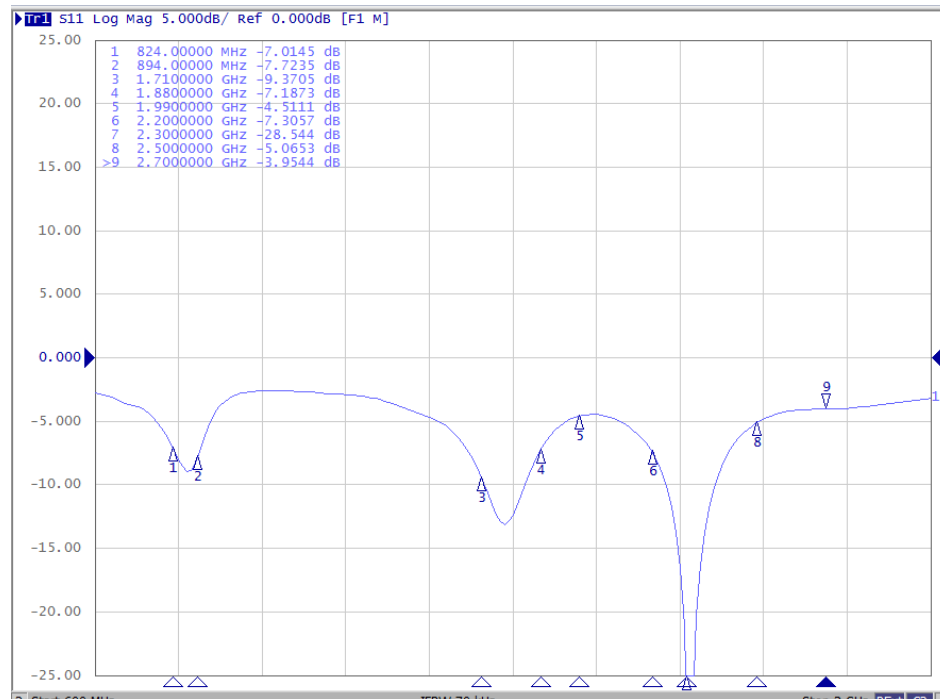
## BT



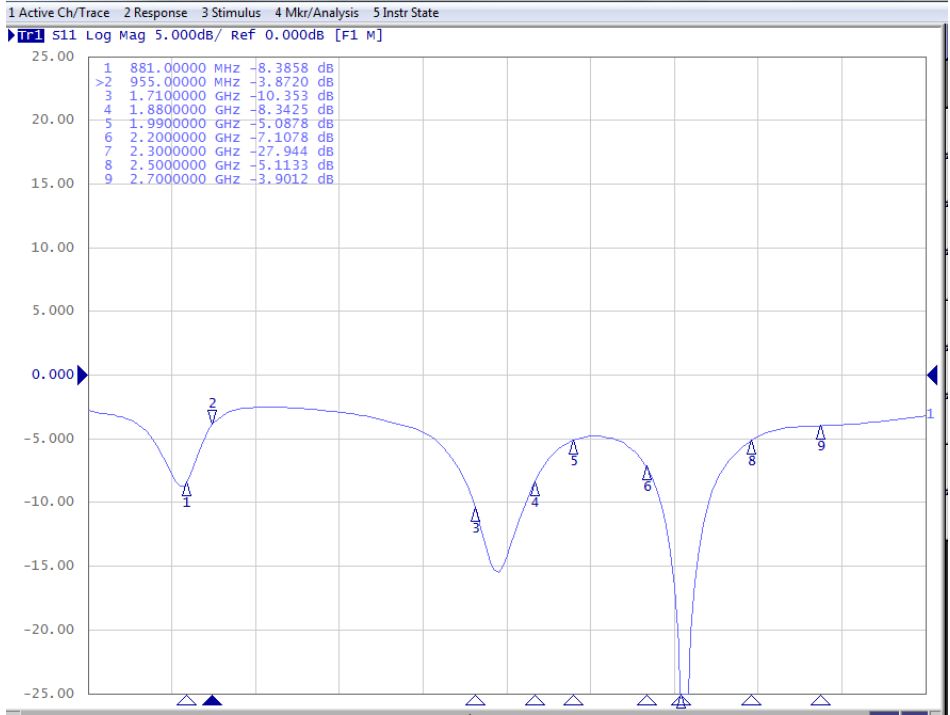
### 4. Antenna return loss

a. Antenna1

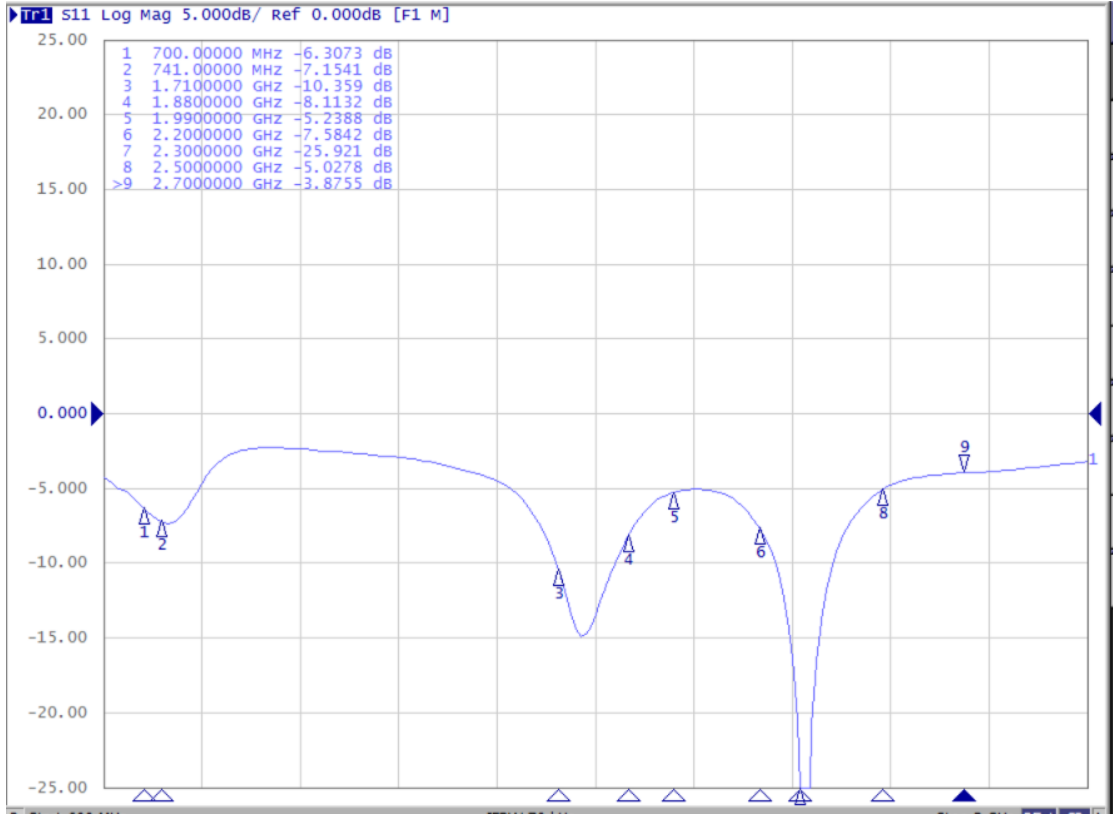
B2/3/4/5/7/30/66



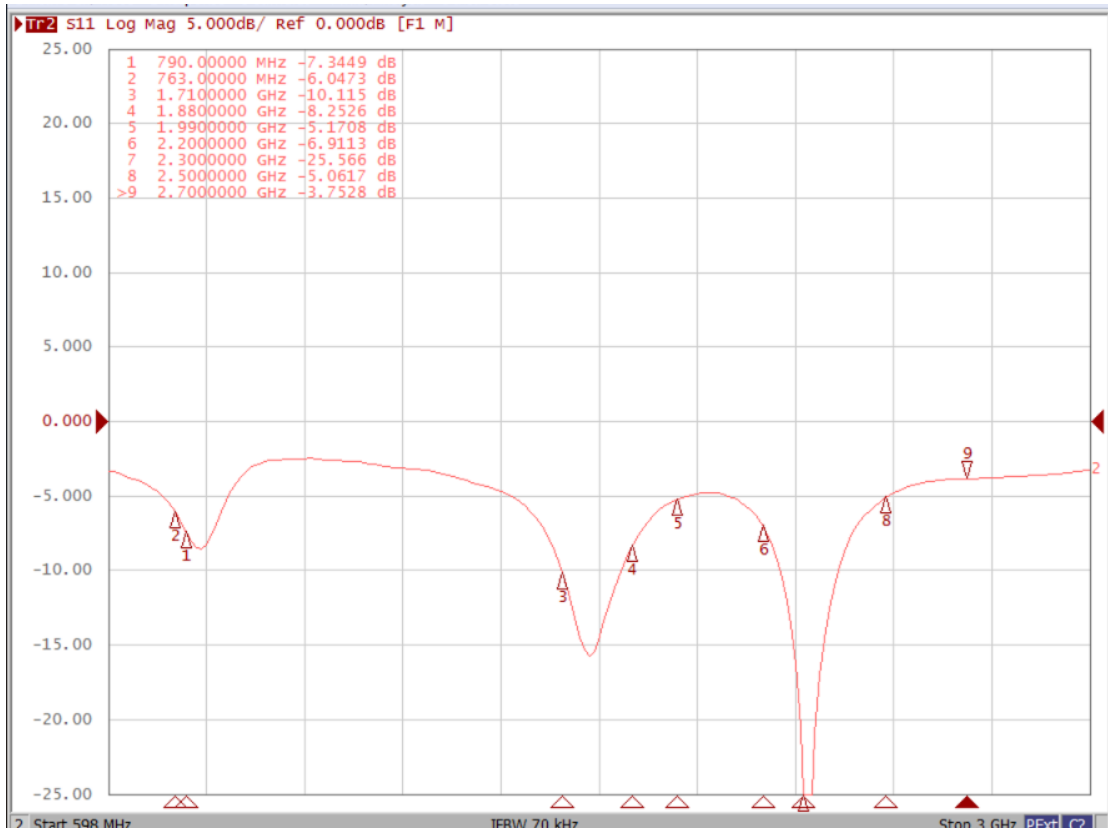
B8



B12

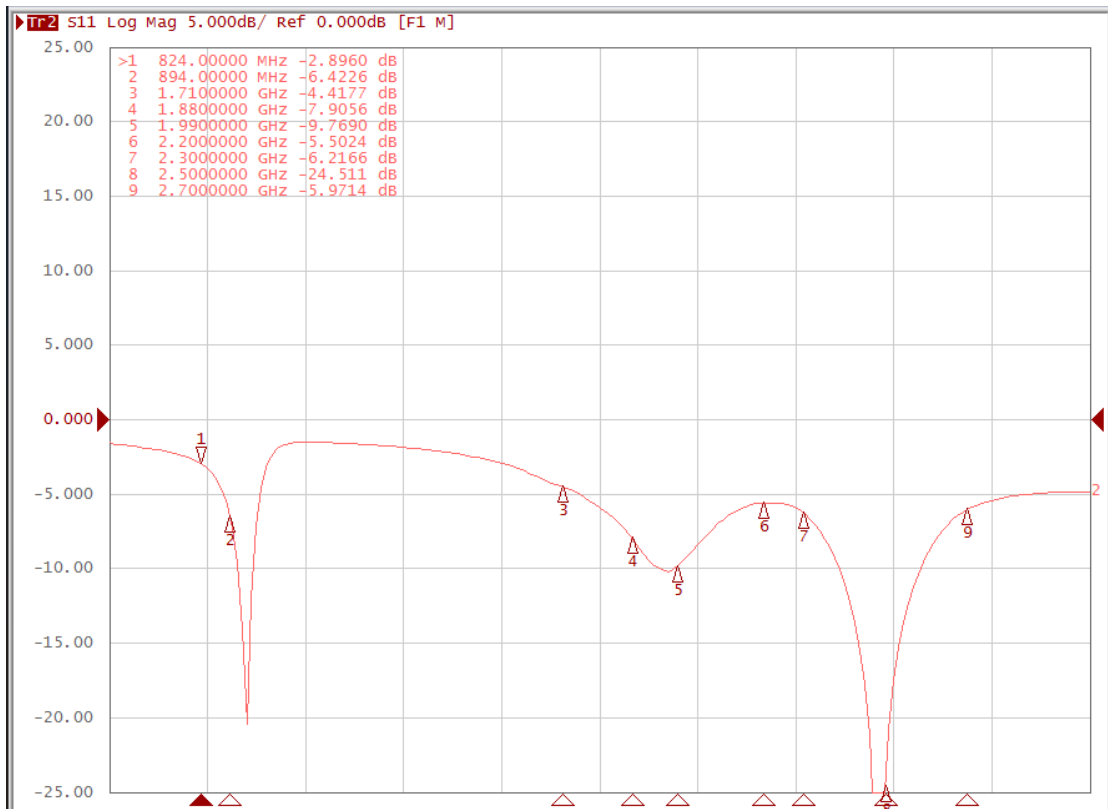


B14

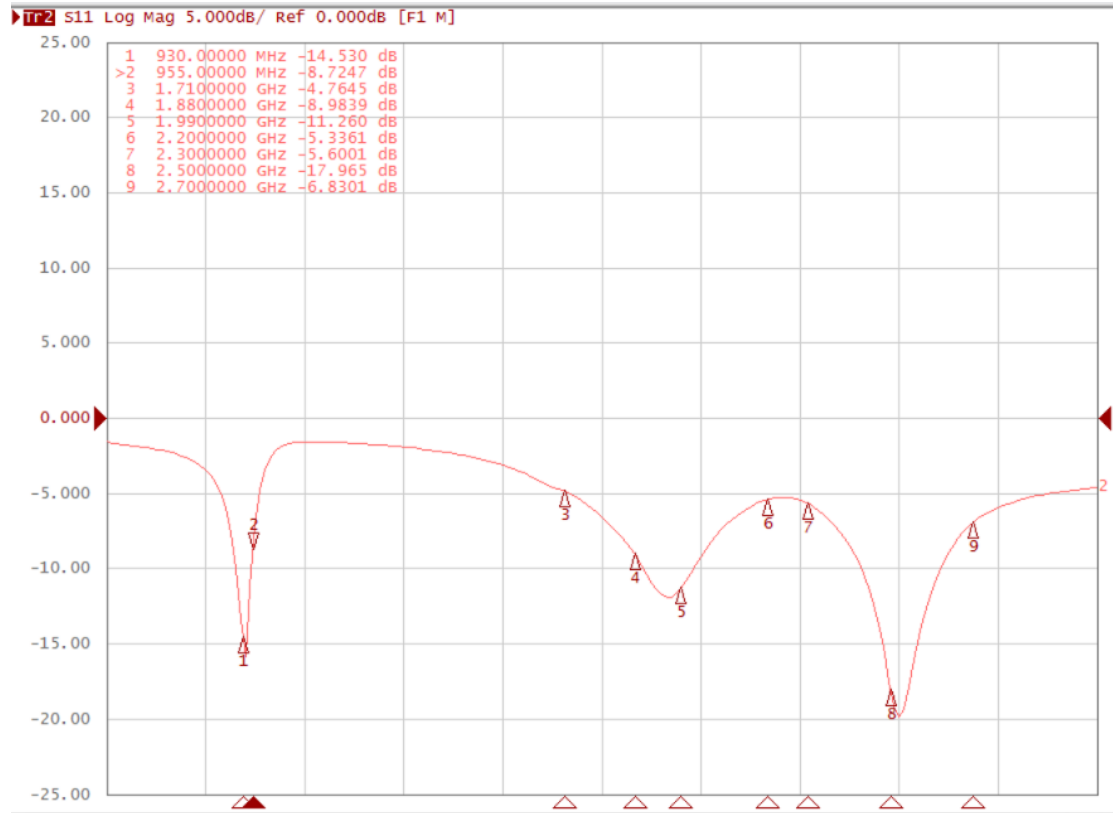


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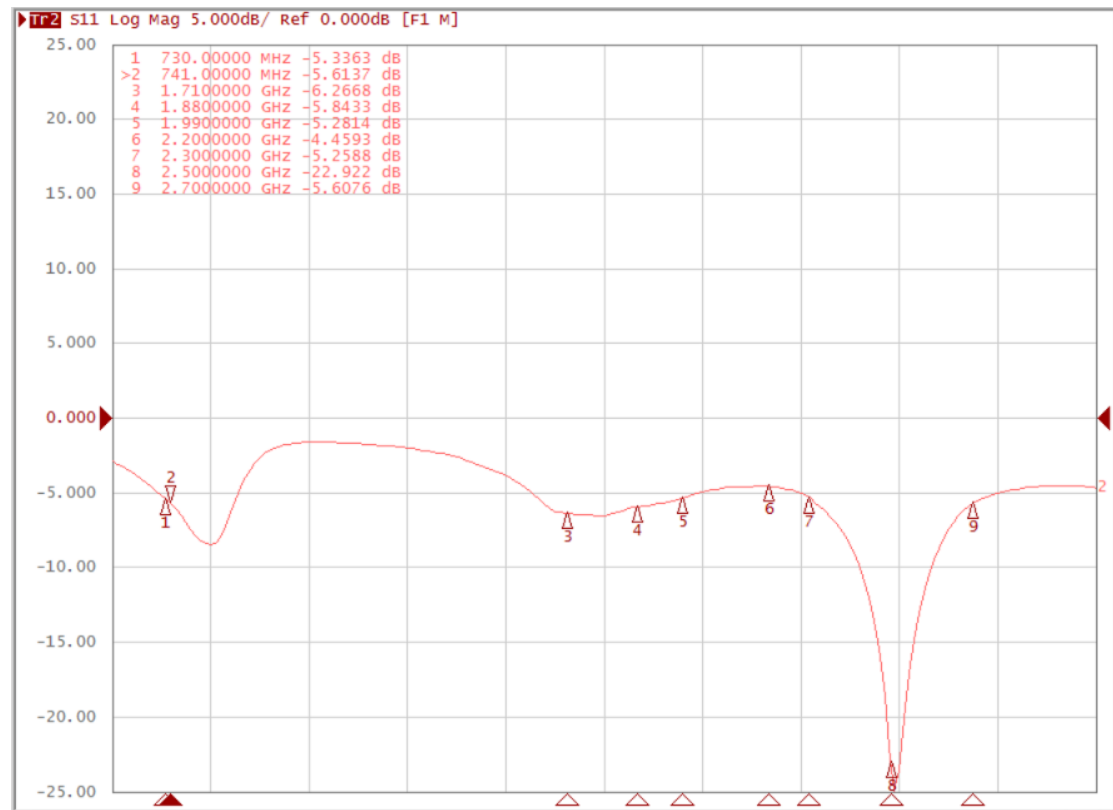
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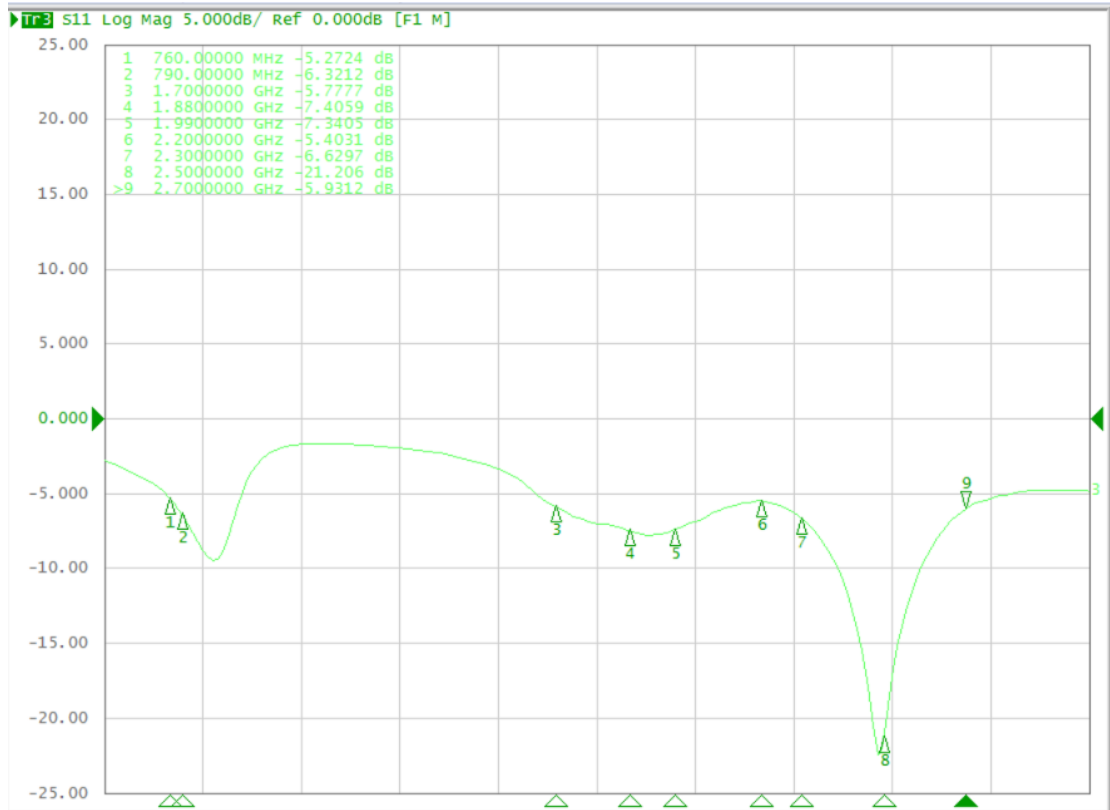
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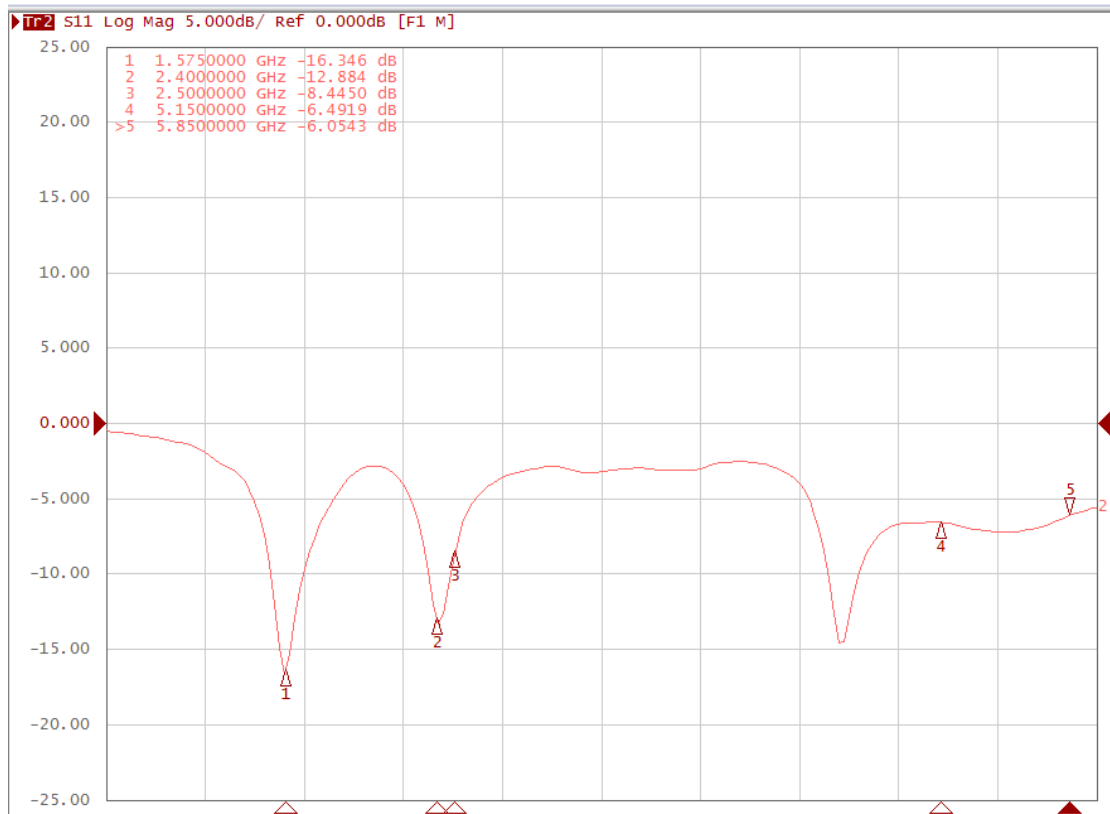
### B12



### B14



b. Antenna3





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Tel: 86-0755-29076623 29076625

Fax: 86-0755-21633856

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District, Shenzhen, China