

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna test data report

client: zeolite

project:: 46695-TML

Band:

2G (850/900/1800/1900)

3G (W1/2/4/5/8)

4G (B1/2/3/4/5/7/8/12/13/17/28/66-B38)

Engineering: Horsemen (134 1821 8312)

date: 2025-02-25

address: Bao'an District, Shenzhen, Shajing Street, Shayi North Yongfa

Science and Technology Park, the first third floor

1. Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2/3/4/5G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: SP9500/CMW500/8960 Test Environment: Anechoic Chamber

2. Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)



Agilent 8960 (2G/3G Test Equipment)

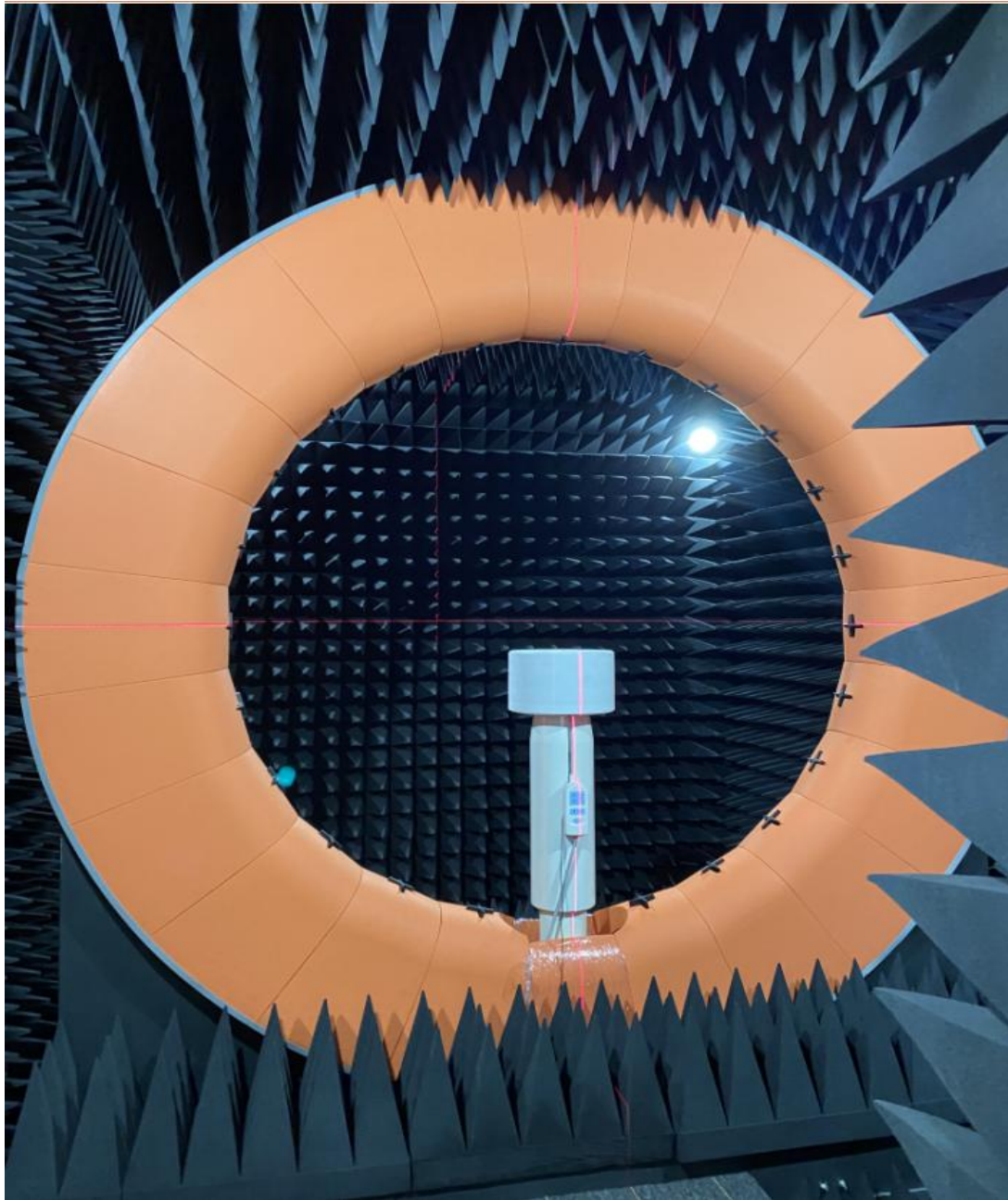


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

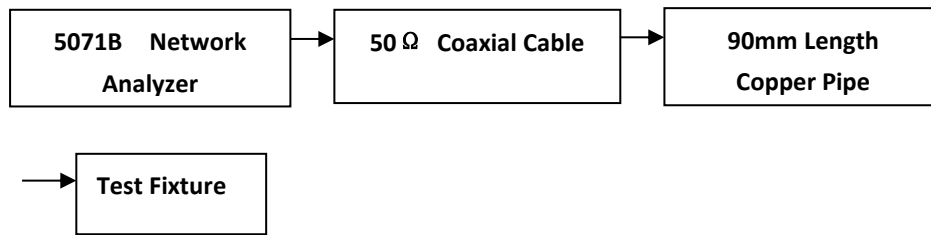
3. TestEnvironment



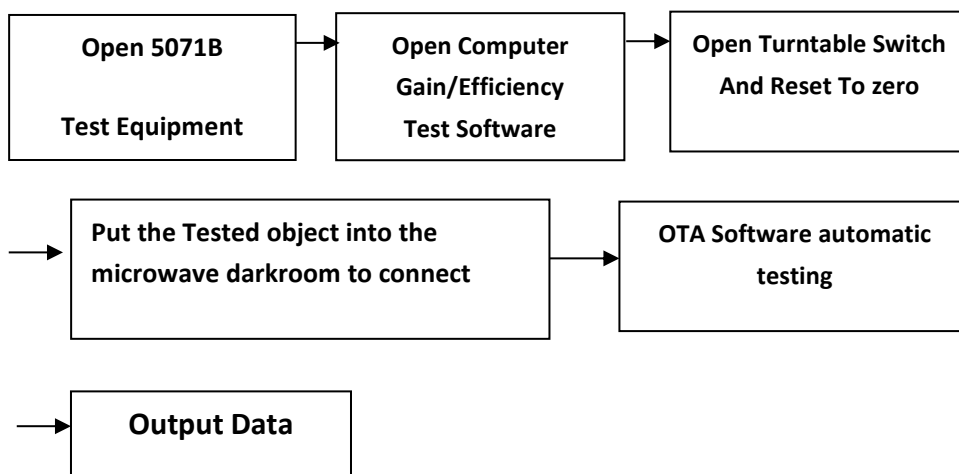
Microwave Anechoic Chamber

4.Test Steps

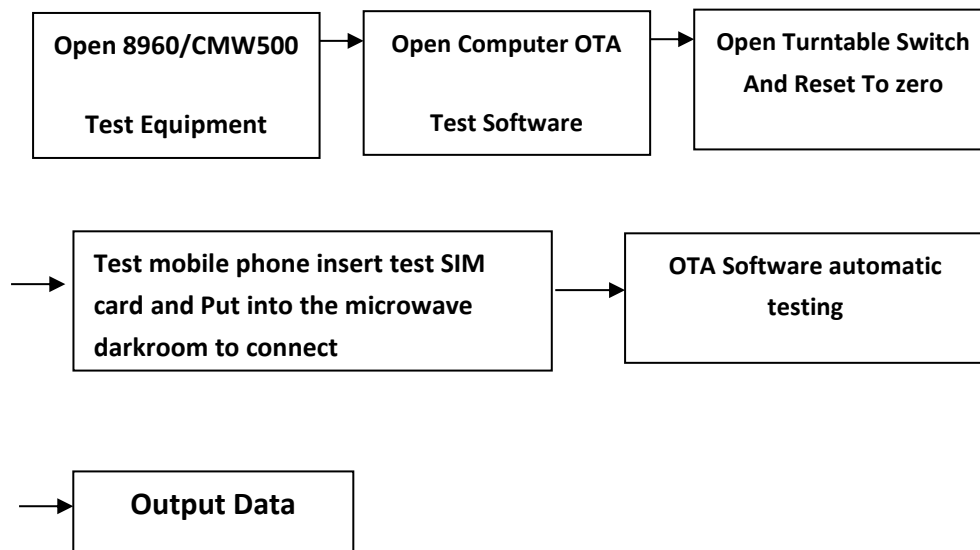
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



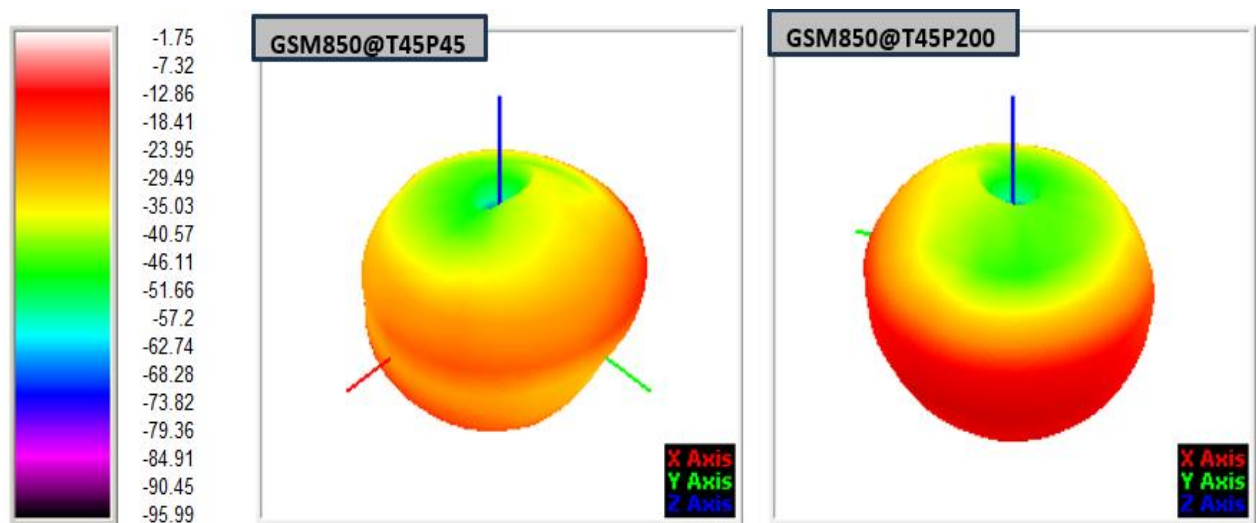
5. Antenna Gain

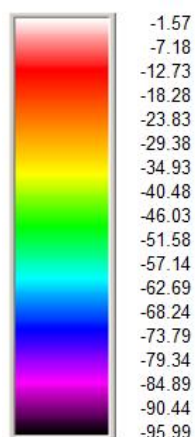
Band	Max Gain
GSM850	-1.75
GSM900	-1.57
DCS1800	-0.64
PCS1900	-0.61
WCDMA2100	-0.16
WCDMA1900	-0.61
WCDMA1700	-0.64
WCDMA850	-1.75
WCDMA900	-1.57
BAND 1	-0.16
BAND 2	-0.61
BAND 3	-0.64
BAND 4	-0.64
BAND 5	-1.75
BAND 7	0.16
BAND 12	-2.03
BAND 13	-1.96
BAND 17	-2.03
BAND 28	-2.03
BAND 38	0.16
BAND 66	-0.64
GPS	0.71
2.4G WIFI/BT	1.06

6.Introduction to Antenna Information

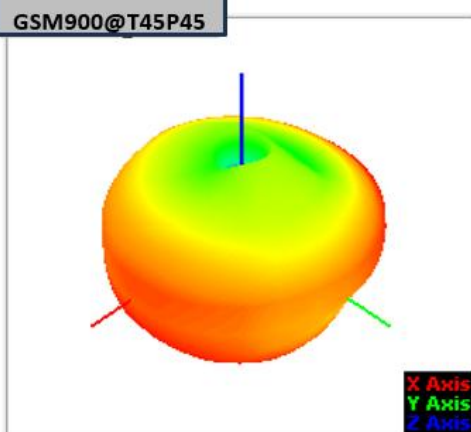
46695	
Antenna type and frequency band	MAIN ANTENNA(PIFA):2G/3G/4G DIV ANTENNA(PIFA):4G BT ANTENNA(Monopole):BT
Antenna materia	FPC/WIRE

7. 3D Lobe Diagram

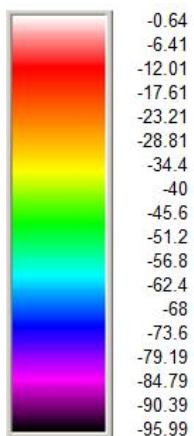
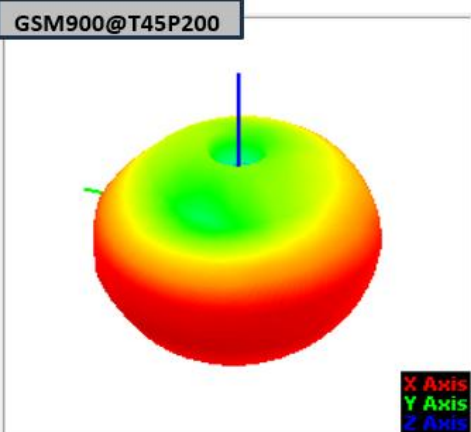




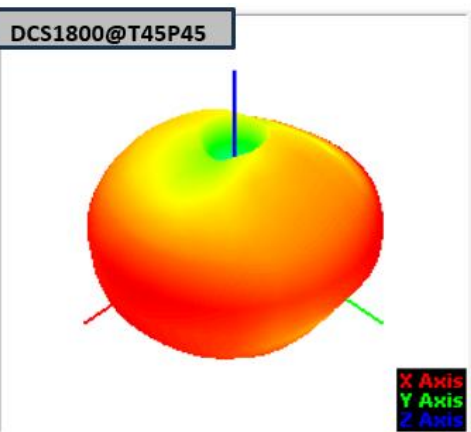
GSM900@T45P45



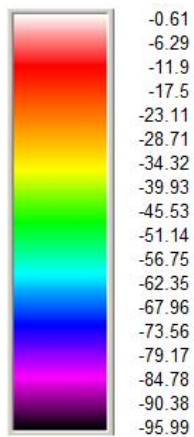
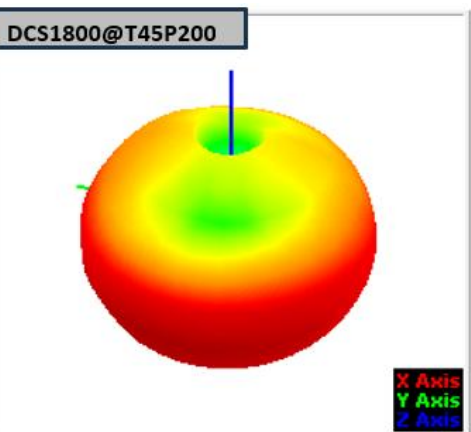
GSM900@T45P200



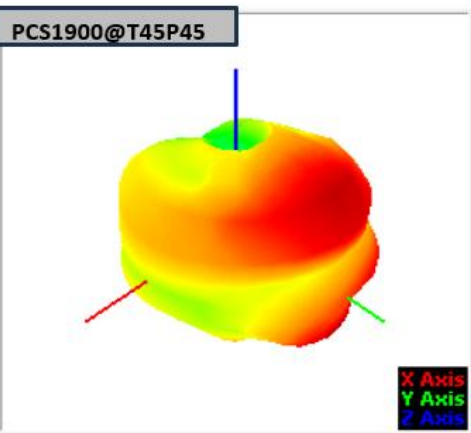
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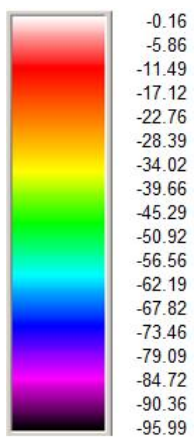
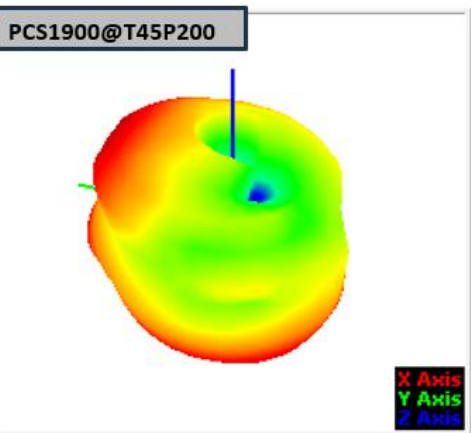
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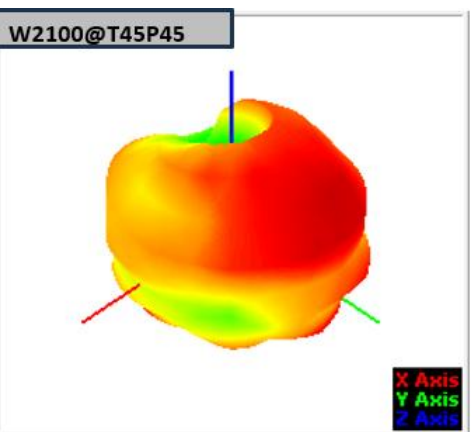
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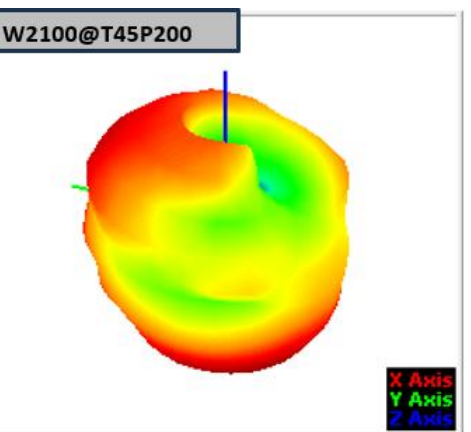
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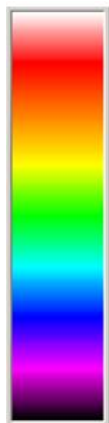


W2100@T45P45

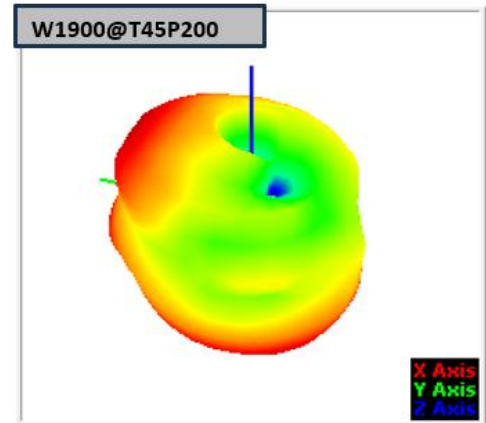
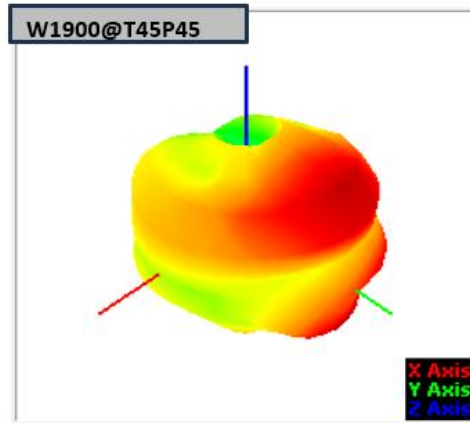


W2100@T45P200

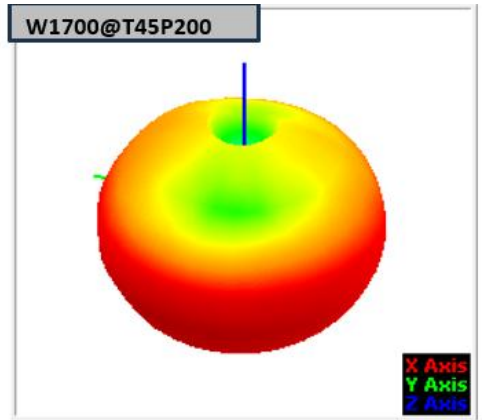
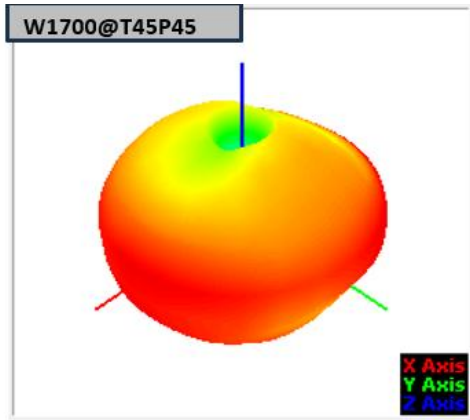




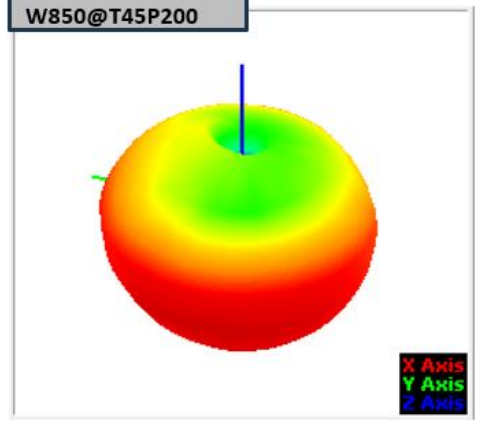
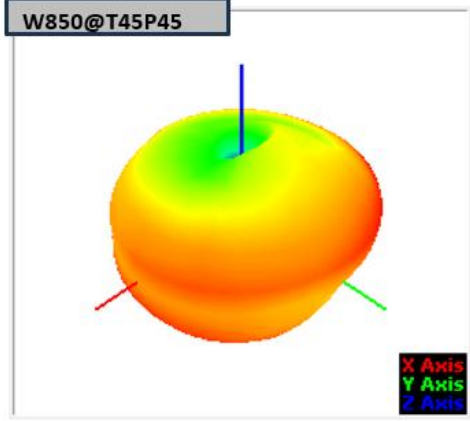
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-79.17
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-90.38
-95.99



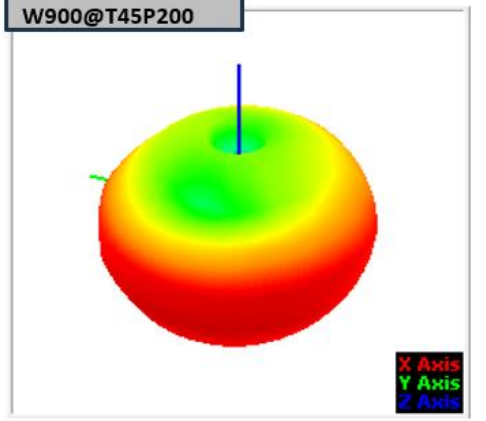
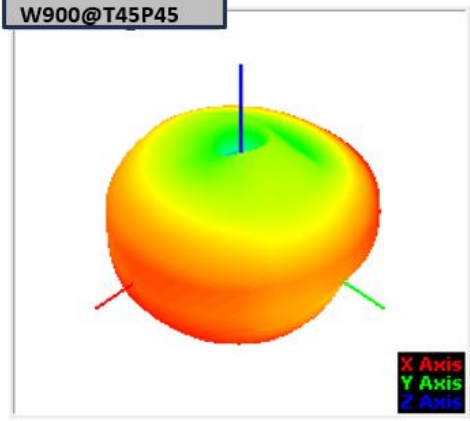
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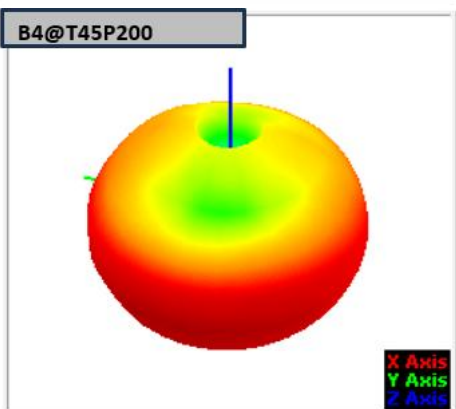
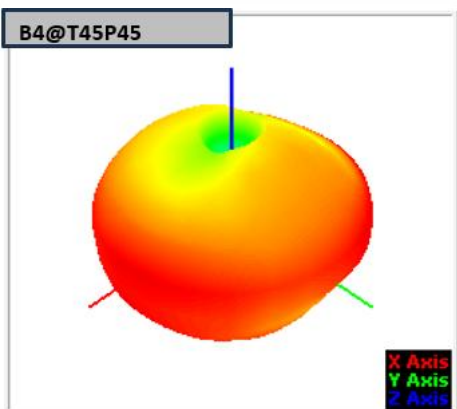
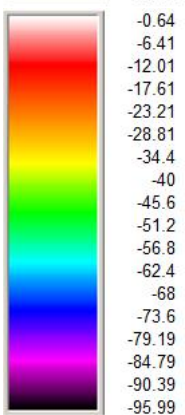
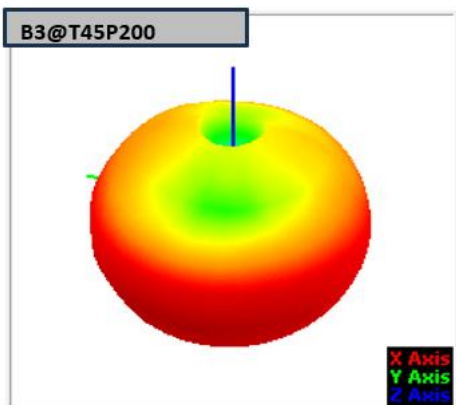
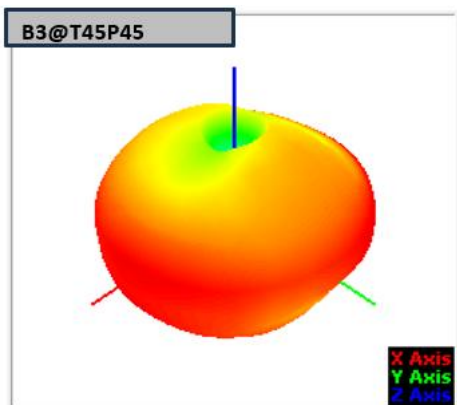
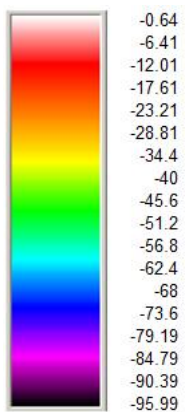
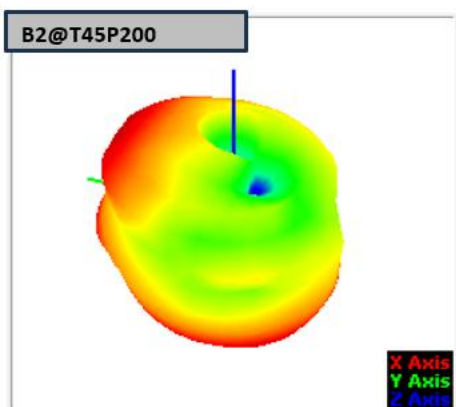
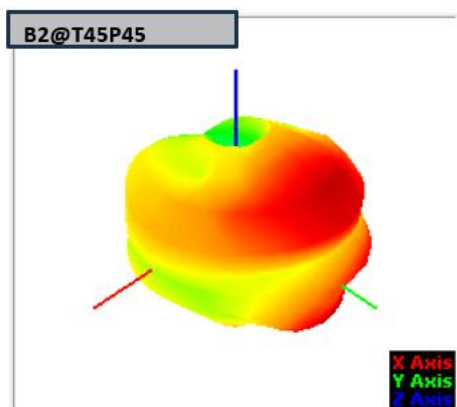
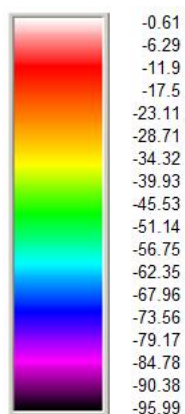
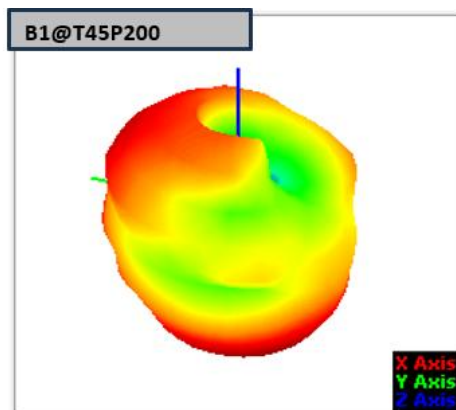
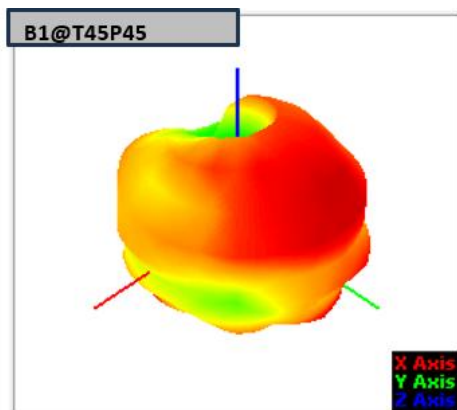
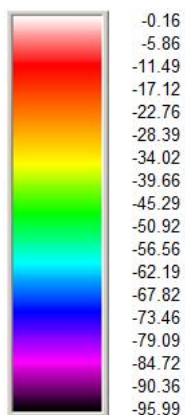


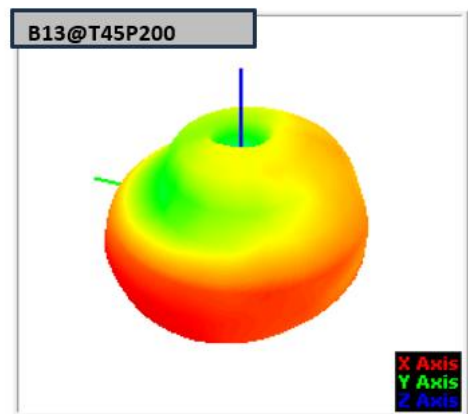
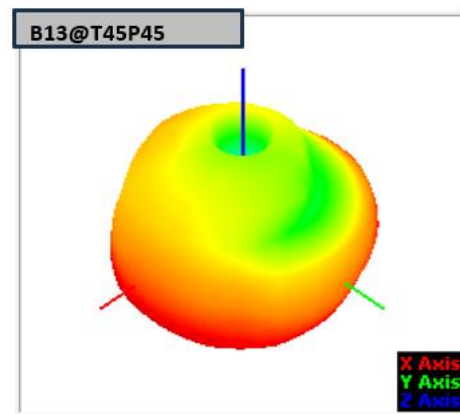
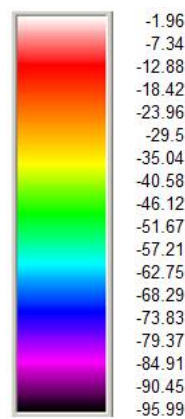
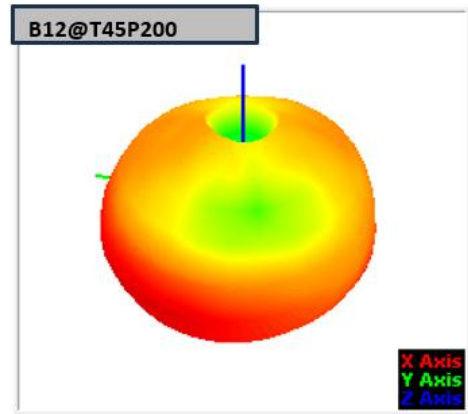
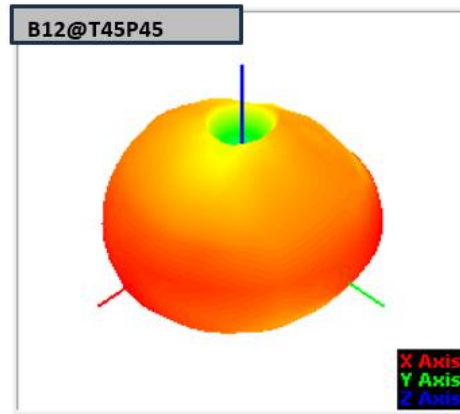
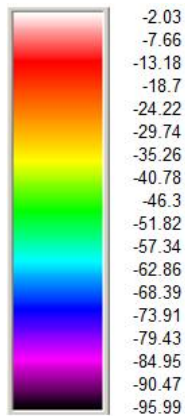
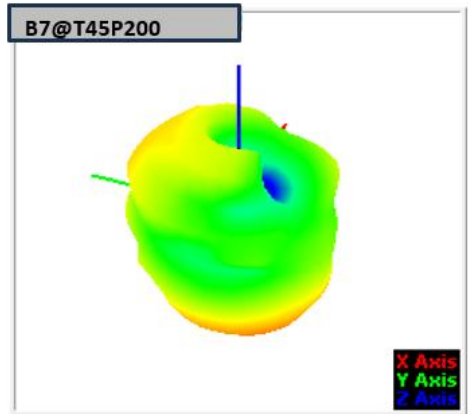
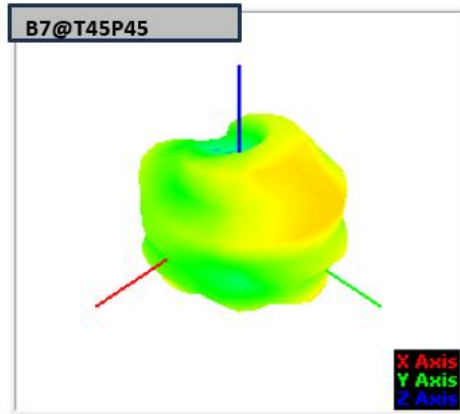
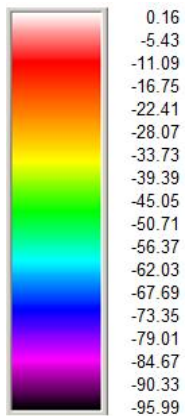
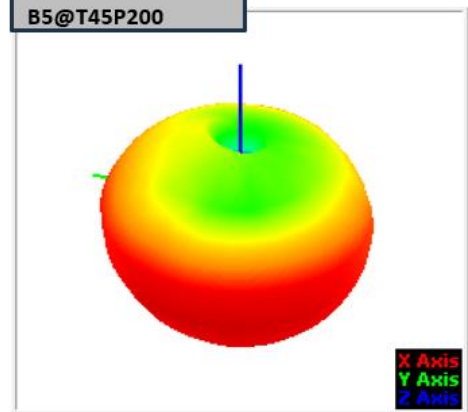
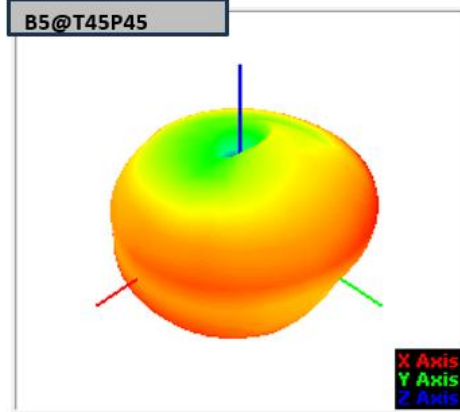
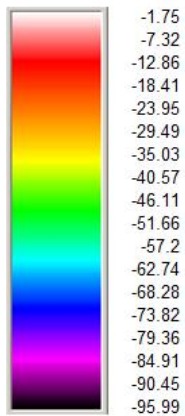
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-95.99

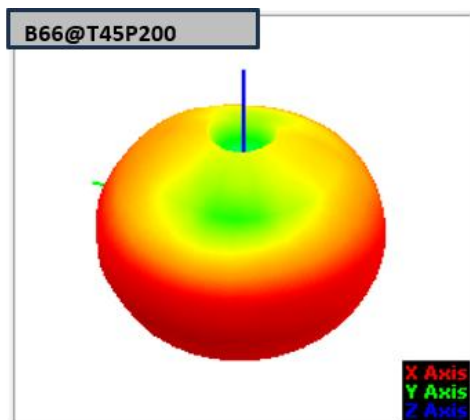
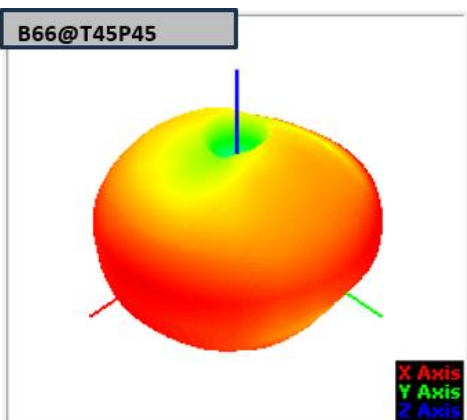
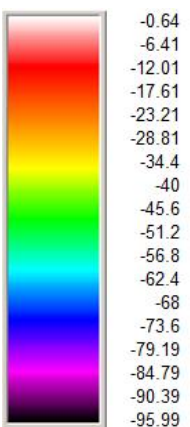
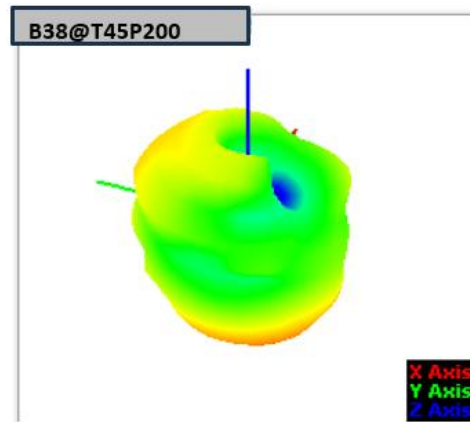
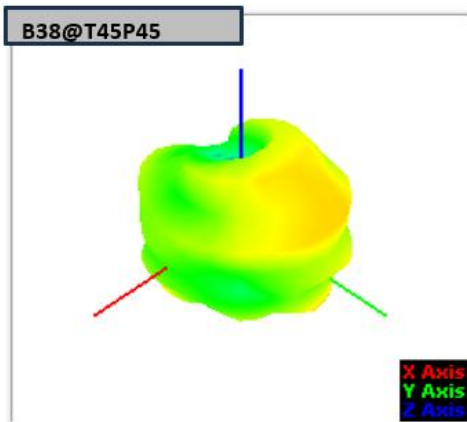
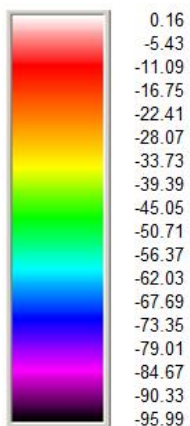
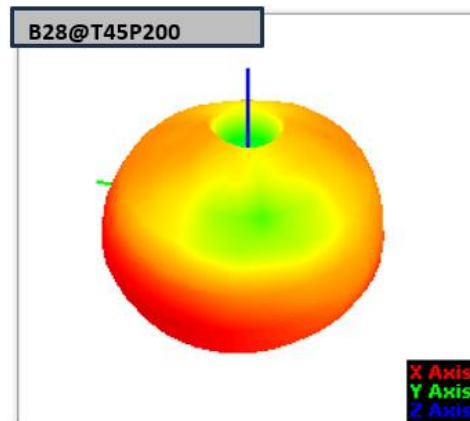
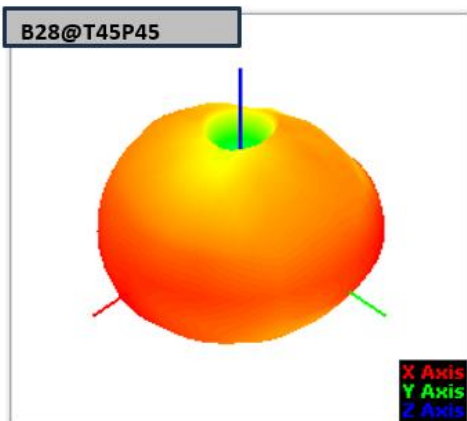
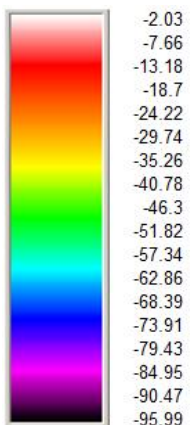
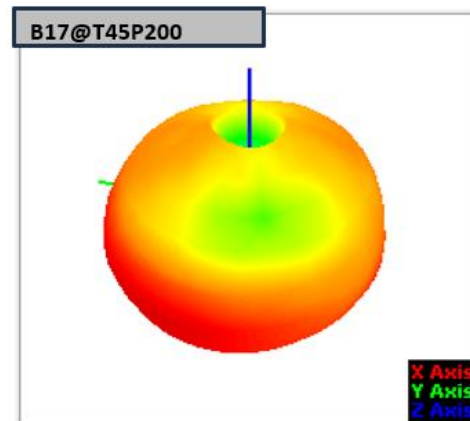
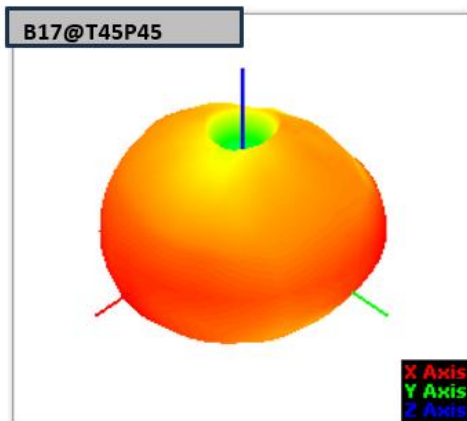
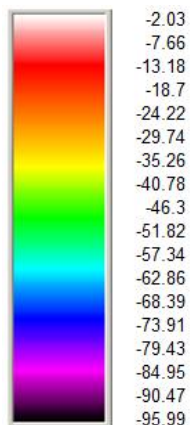


-1.57
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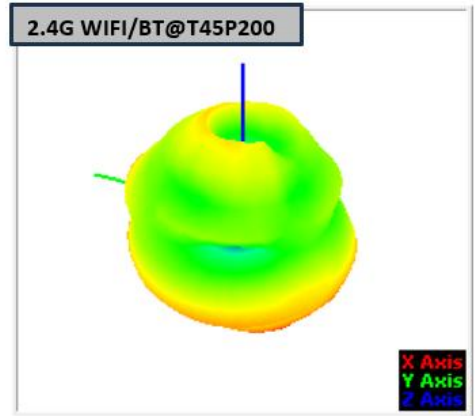
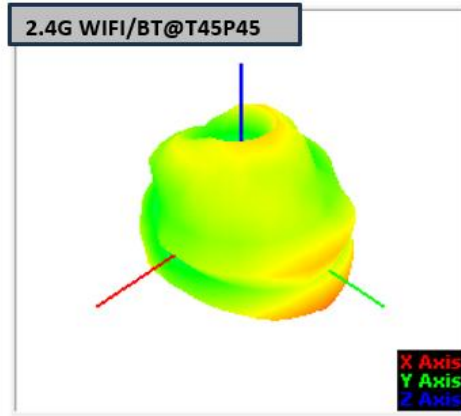




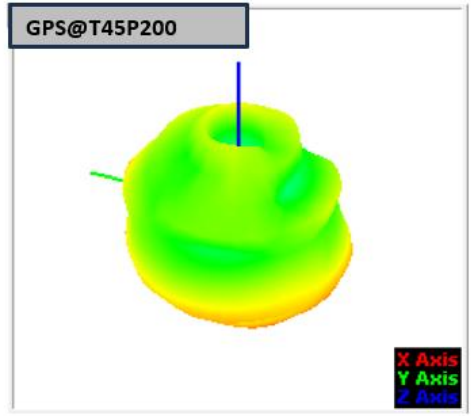
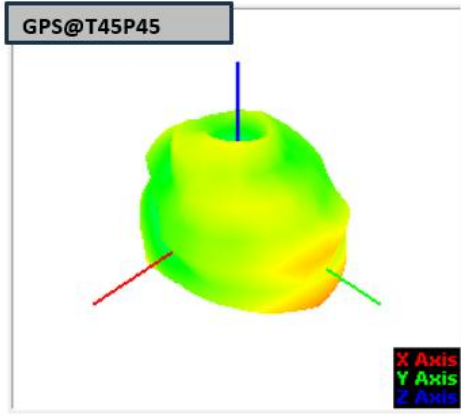




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-90.3
-95.99



8. Antenna size diagram

