

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name: M511H

FrequencyBand: GSM: B2/B3/B5/B8/WCDMA:

B1/B2/B4/B5/B8/TDD-LTE: B38/B40/B41(2496~2690)/FDD-LTE:

B1/B2/B3/B4/B5/B7/B8/B12/B17/B18/B19/B20/B26/B28AB/B66

DATE: 2025-02-28

1.Test Project

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

2.Test Equipment



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

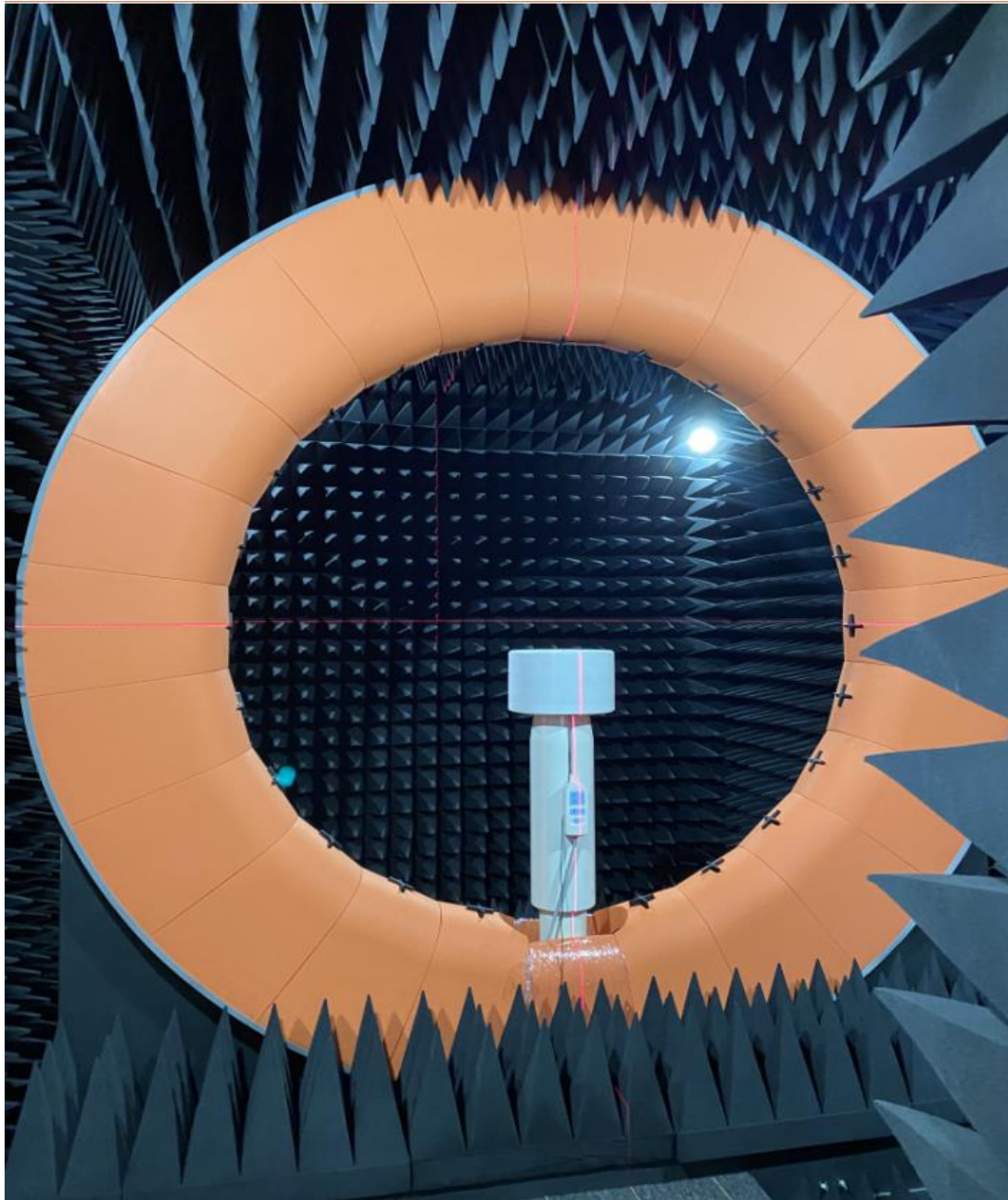


Agilent 8960 (2G/3G Test Equipment)



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

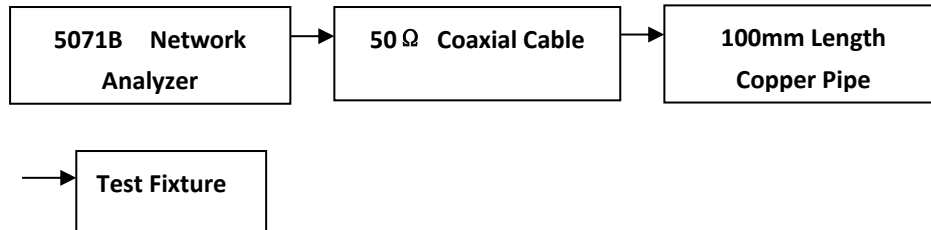
3. TestEnvironment



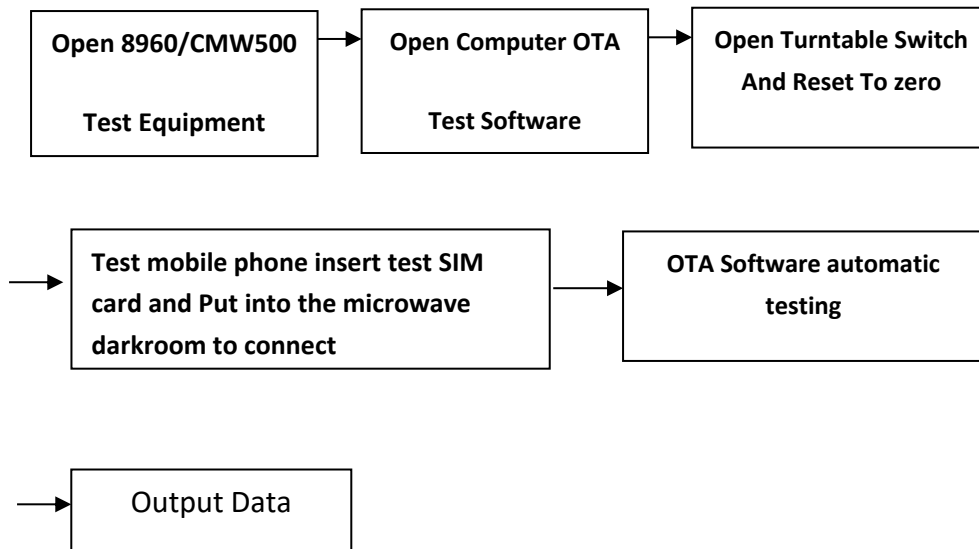
Microwave Anechoic Chamber

4.Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:

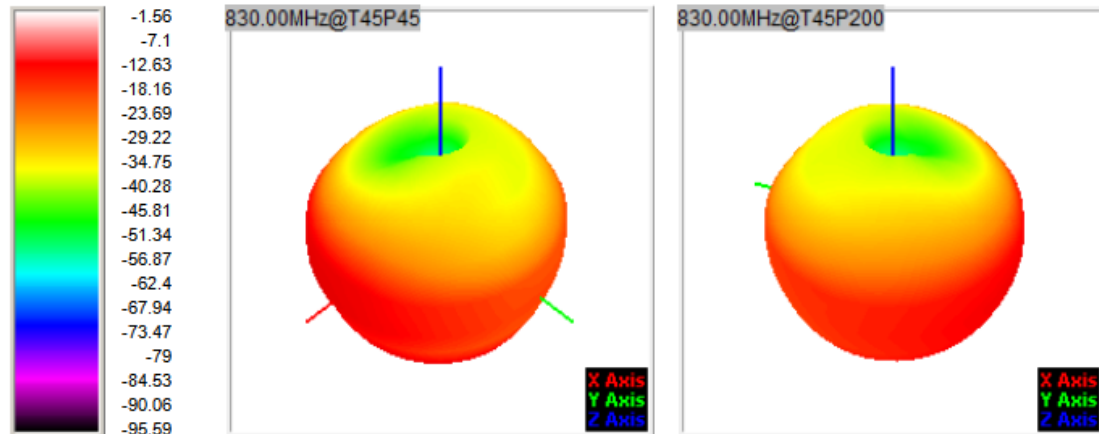


5. Antenna Gain

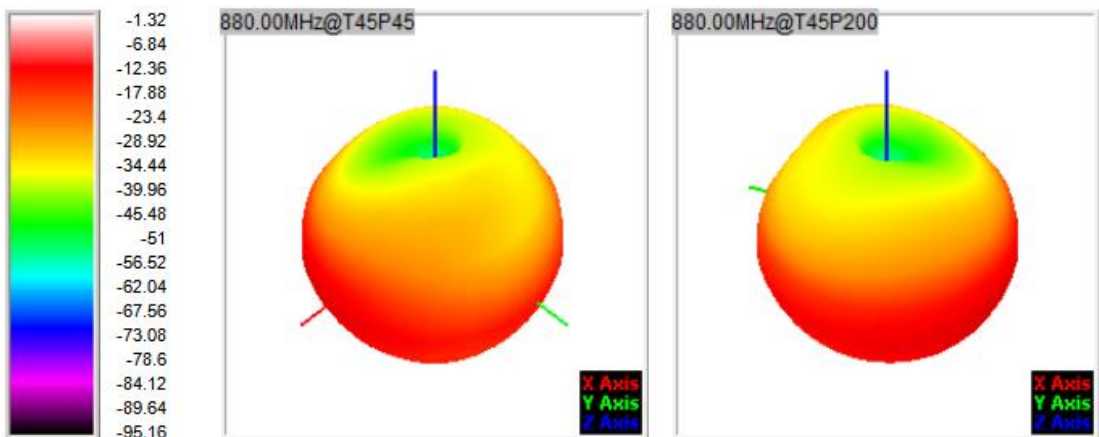
BAND	Peak Gain(dBi)	BAND	Peak Gain(dBi)
GSM 850	-1.5	LTE band 1	-0.8
GSM 900	-1.3	LTE band 2	-1.2
DCS 1800	-0.8	LTE band 3	-0.8
PCS 1900	-1.2	LTE band 4	-0.8
WCDMA band 1	-0.8	LTE band 5	-1.5
WCDMA band 2	-1.2	LTE band 7	0.6
WCDMA band 4	-0.8	LTE band 8	-1.3
WCDMA band 5	-1.5	LTE band 17	-1.8
WCDMA band 8	-1.3	LTE band 18	-1.5
WiFi 2.4G	-1.4	LTE band 19	-1.5
BT	-1.4	LTE band 20	-1.5
		LTE band 26	-1.5
		LTE band 28	-1.8
		LTE band 38	0.6
		LTE band 40	-1.2
		LTE band 41	0.6
		LTE band 66	-0.8

6.3D Lobe Diagram

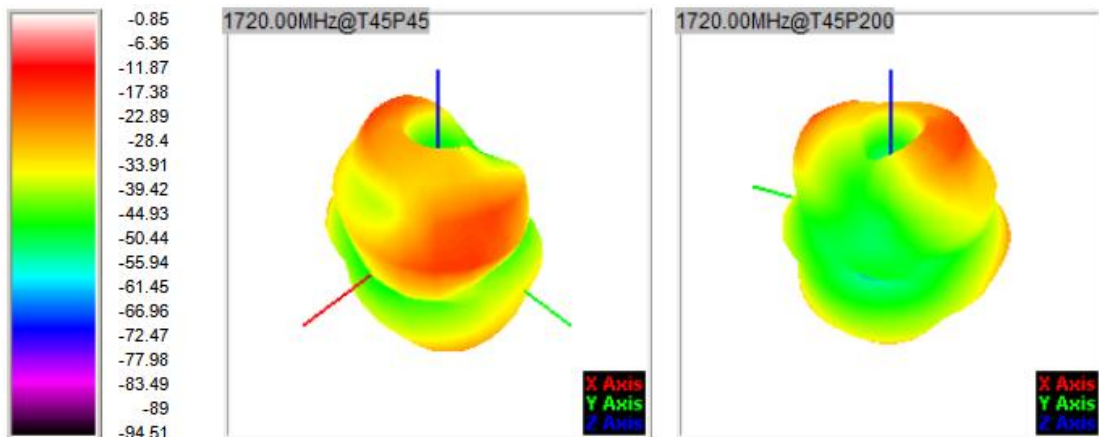
GSM850



GSM900



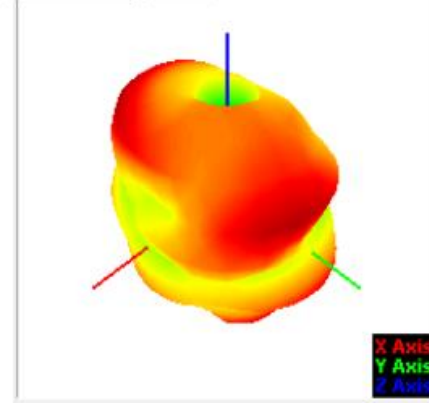
DSC1800



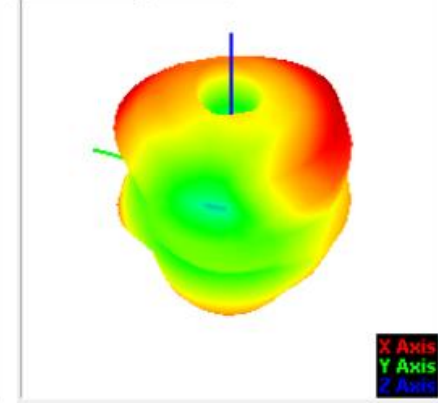
PCS1900



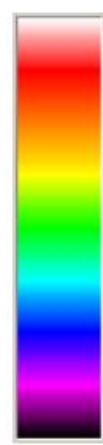
1860.00MHz@T45P45



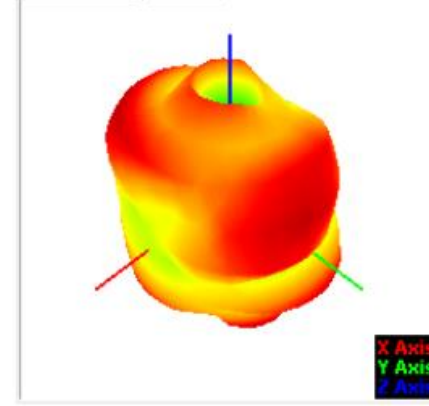
1860.00MHz@T45P200



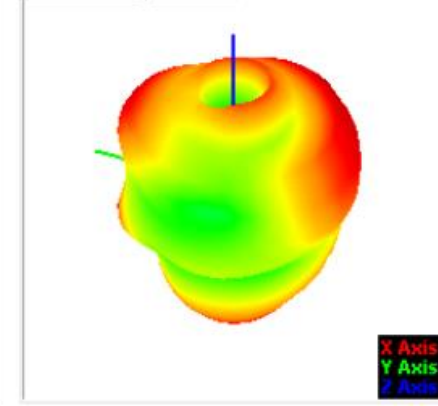
W2100



1920.00MHz@T45P45



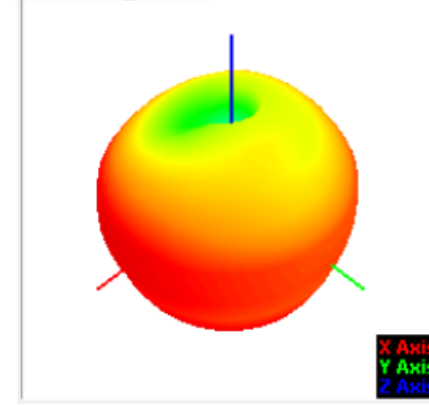
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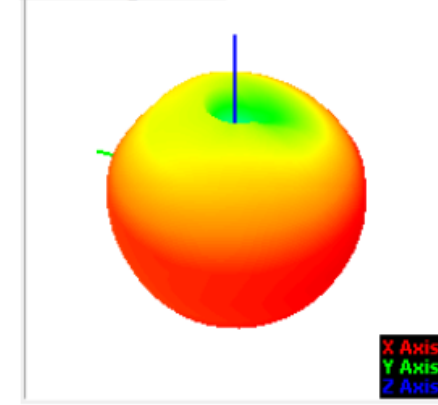
W850



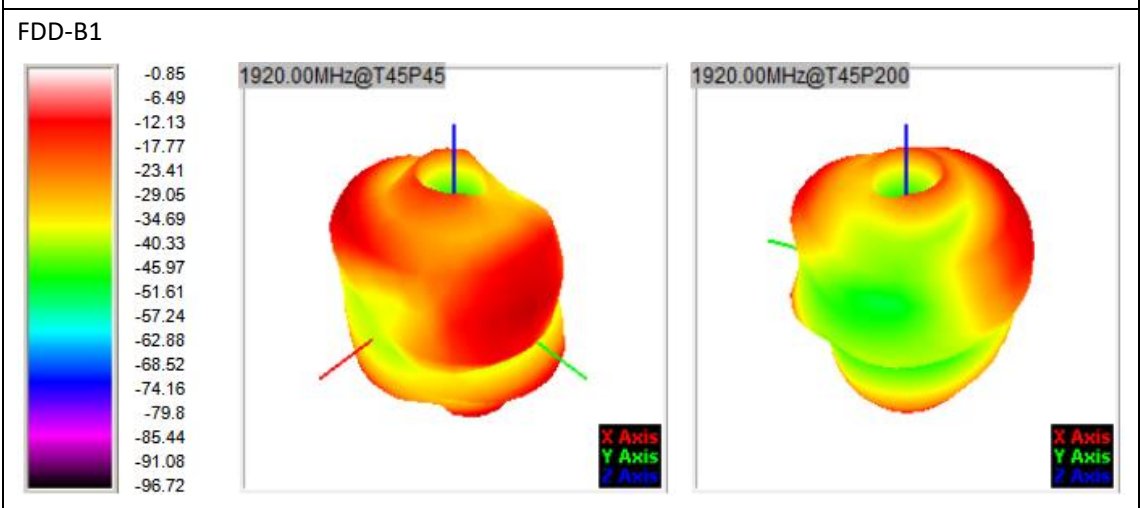
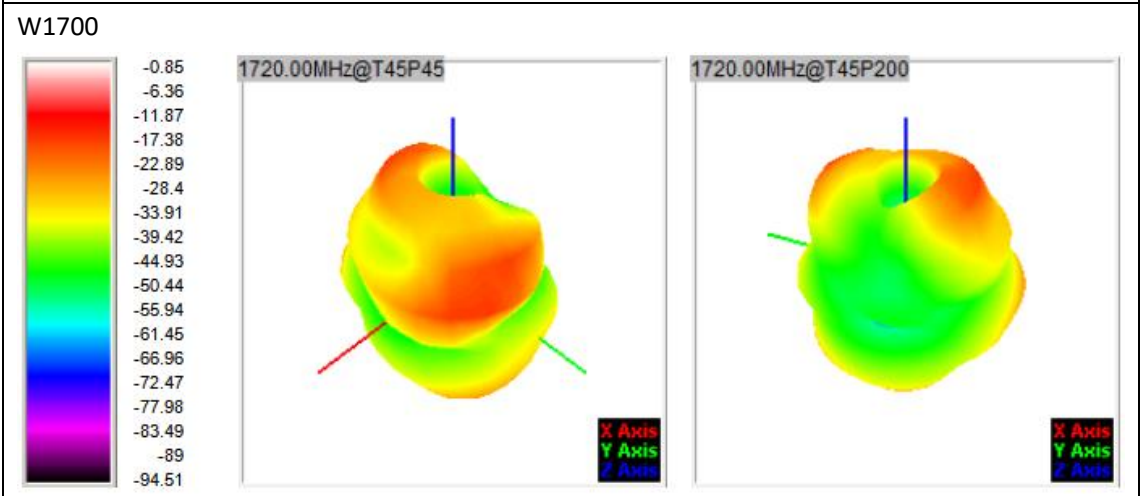
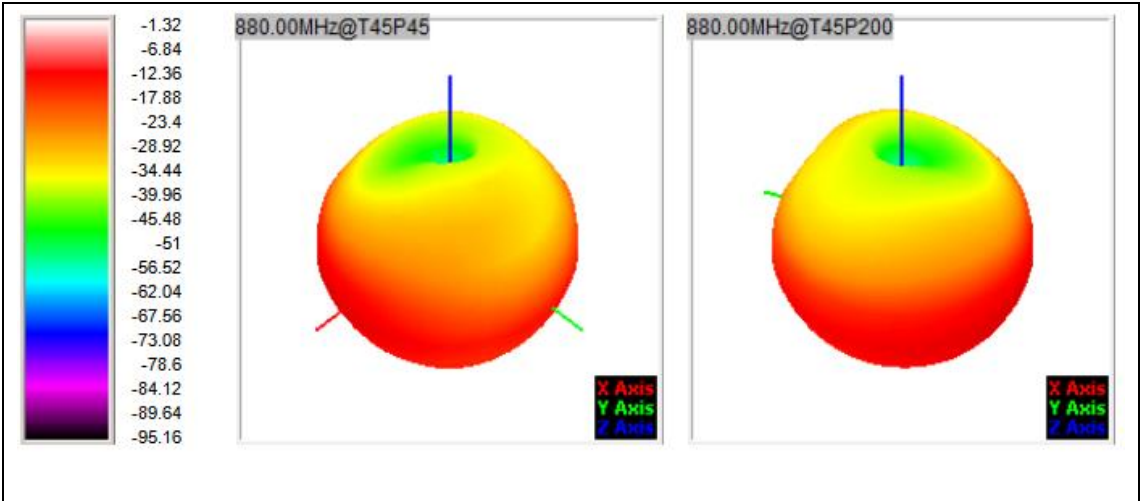
830.00MHz@T45P45



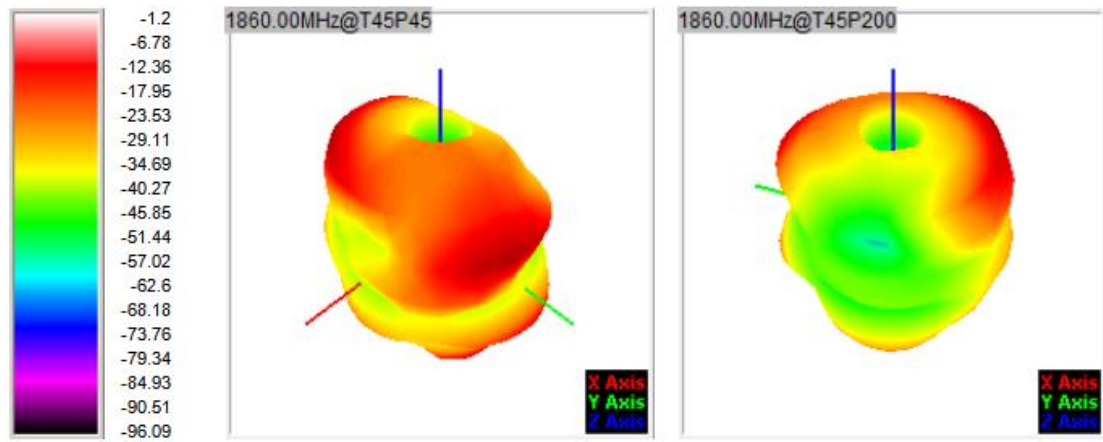
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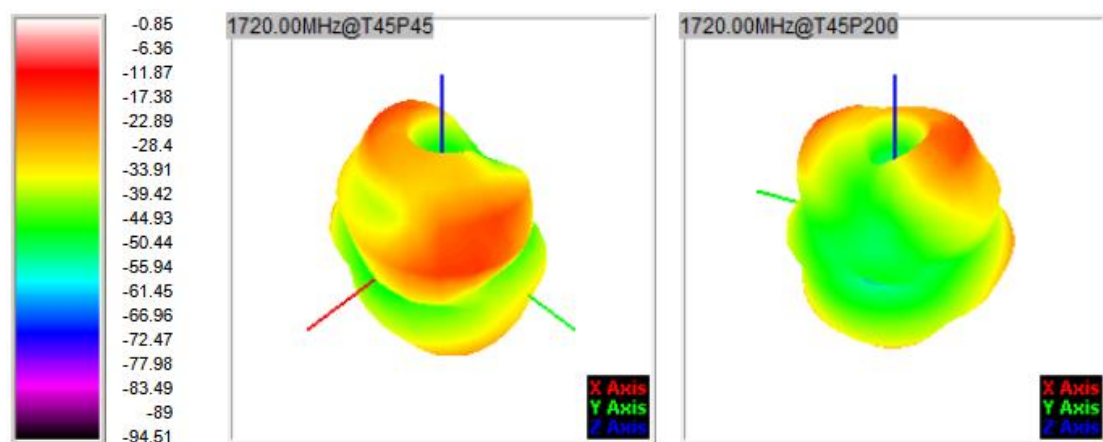
W900



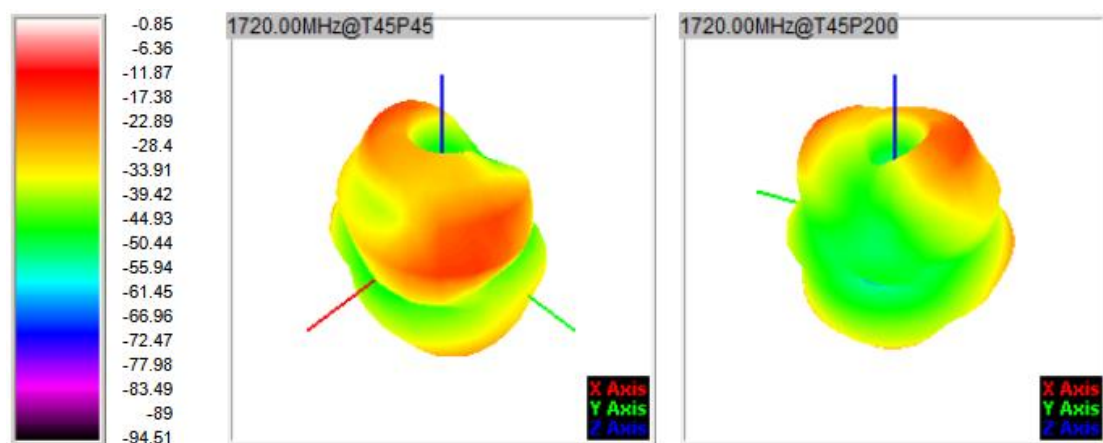
FDD-B2



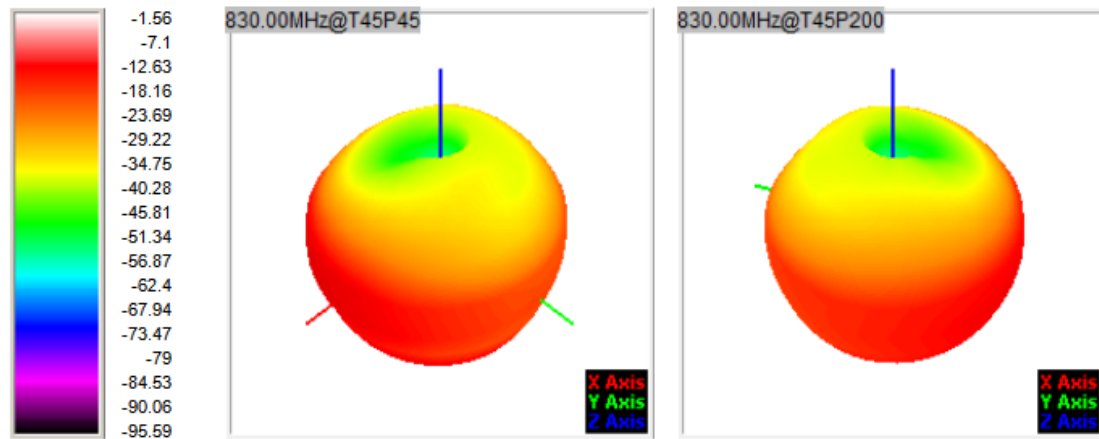
FDD-B3



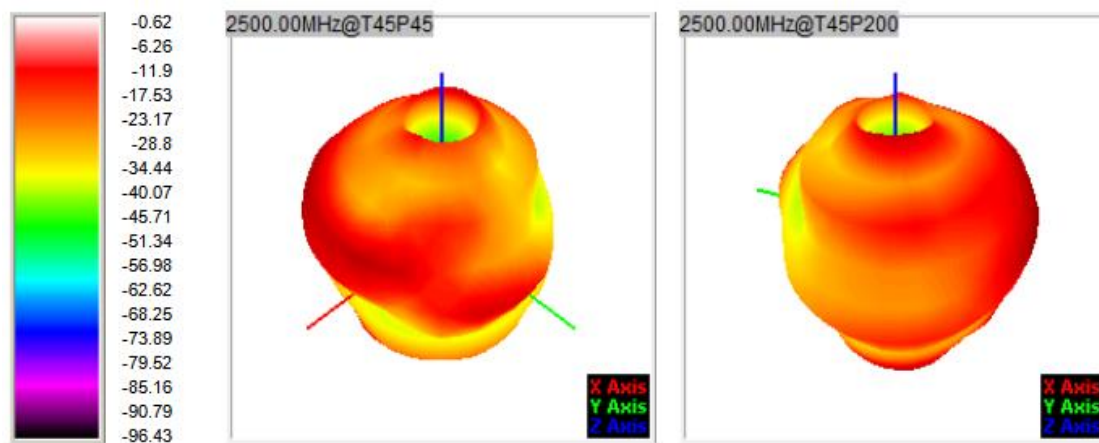
FDD-B4



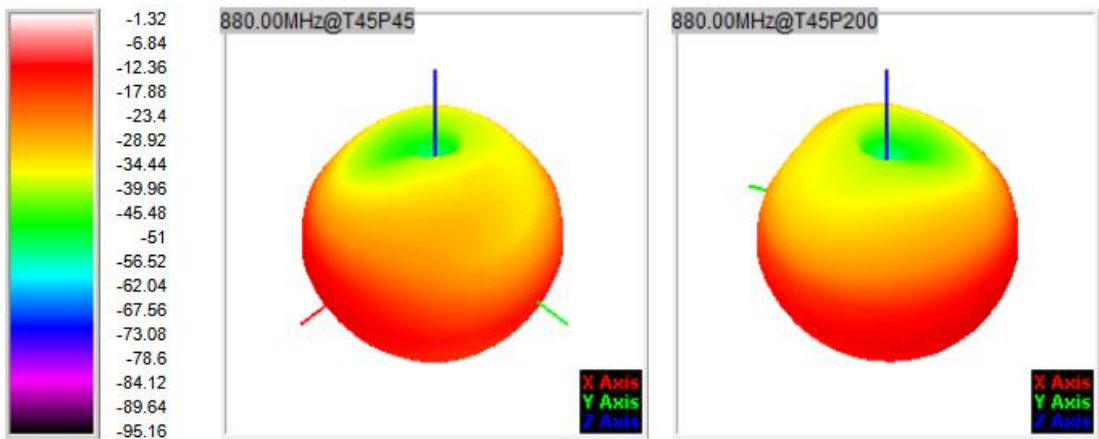
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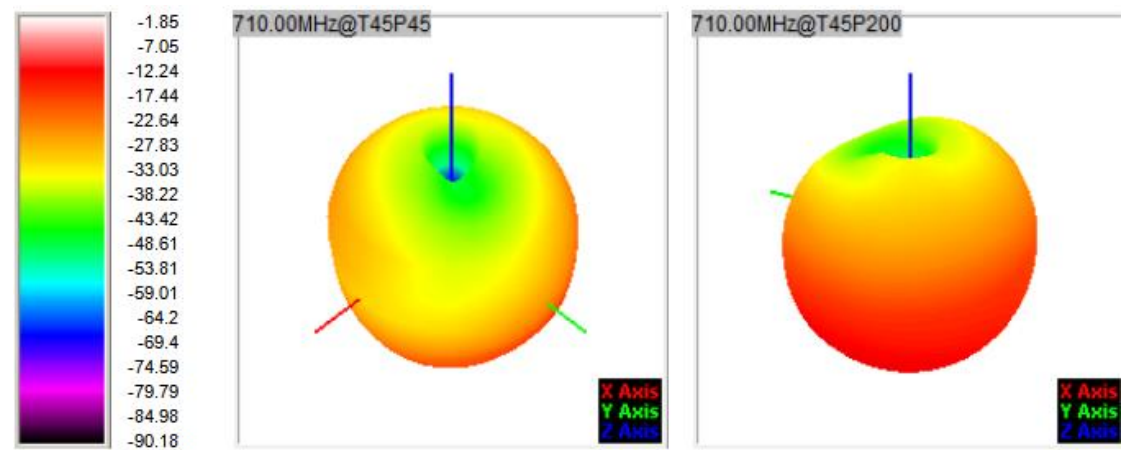
FDD-B7



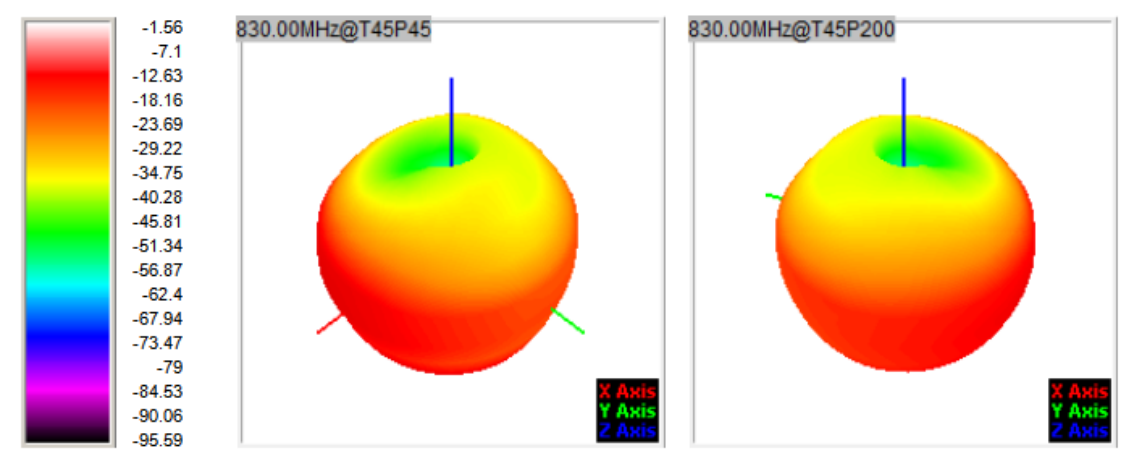
FDD-B8



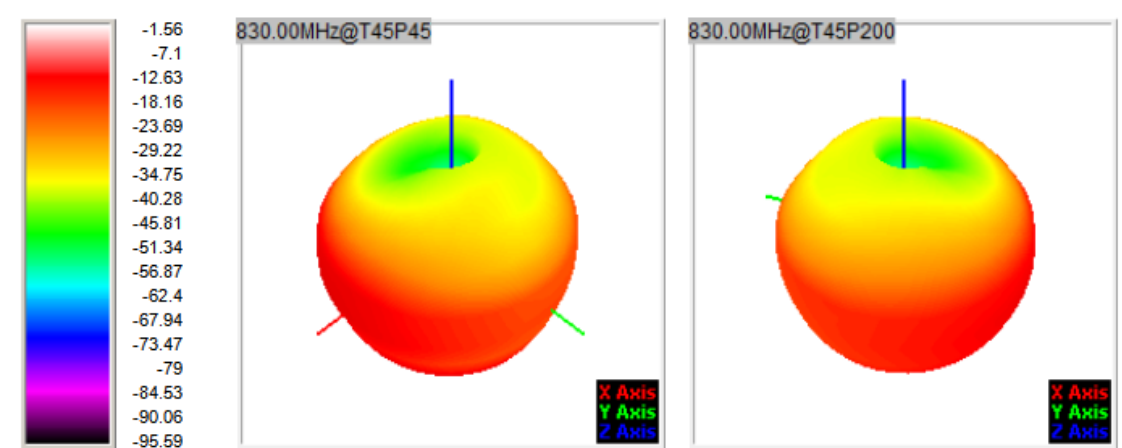
FDD-B17



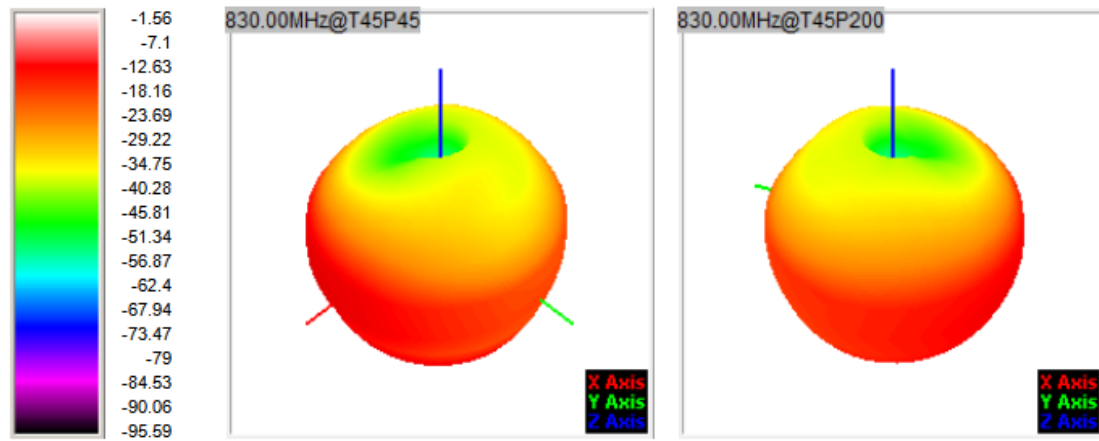
FDD-B18



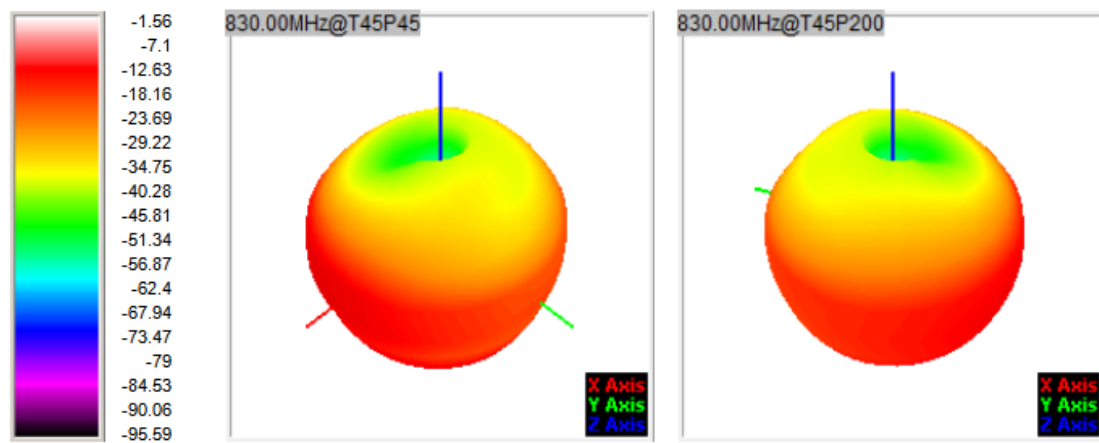
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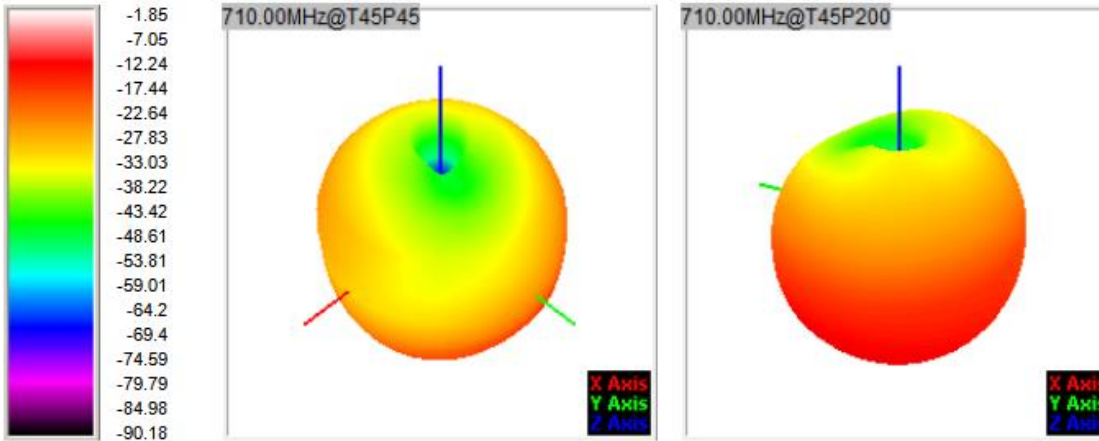
FDD-B20



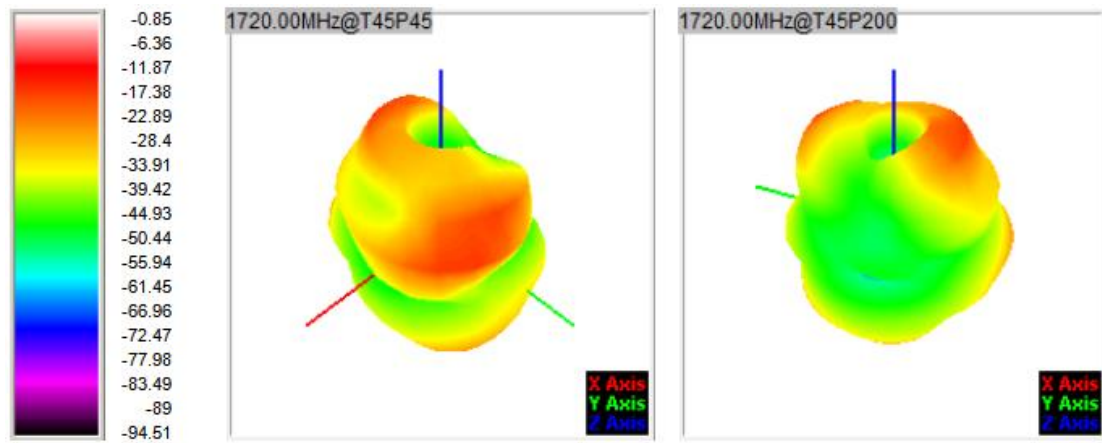
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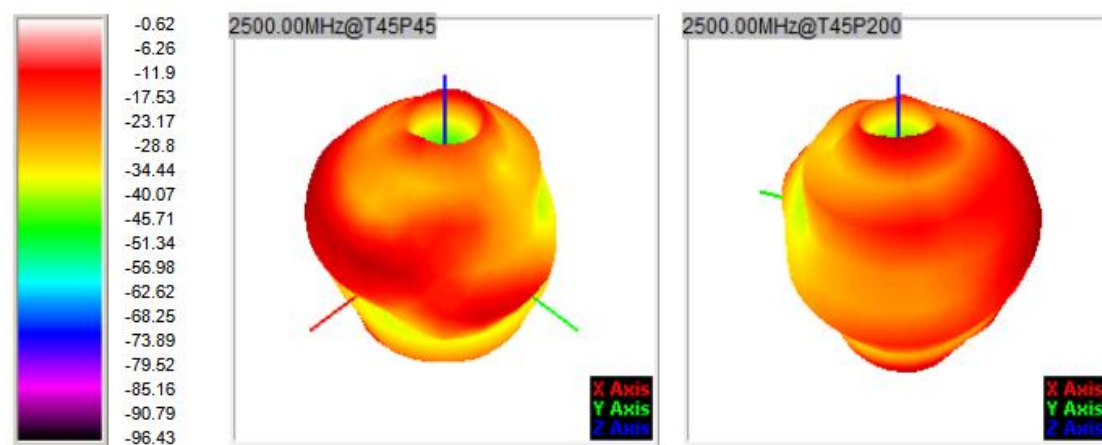
FDD-B28



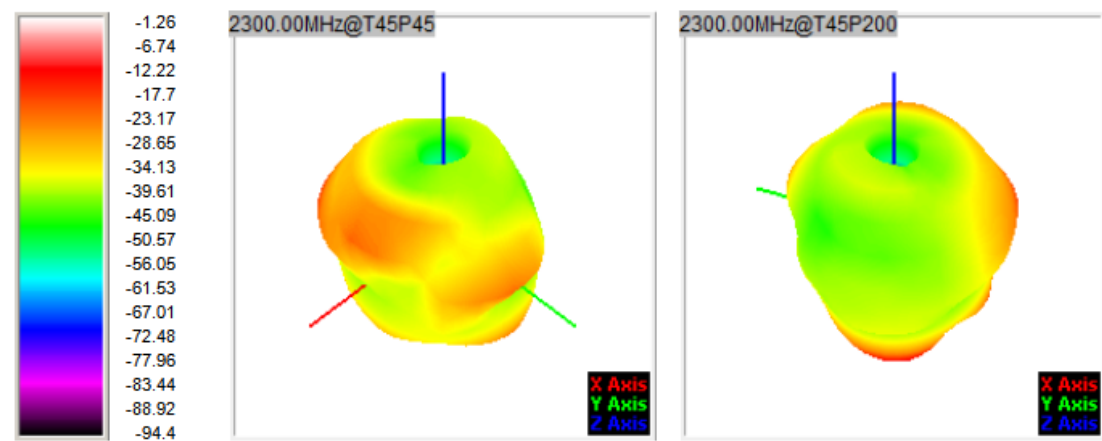
FDD-B66



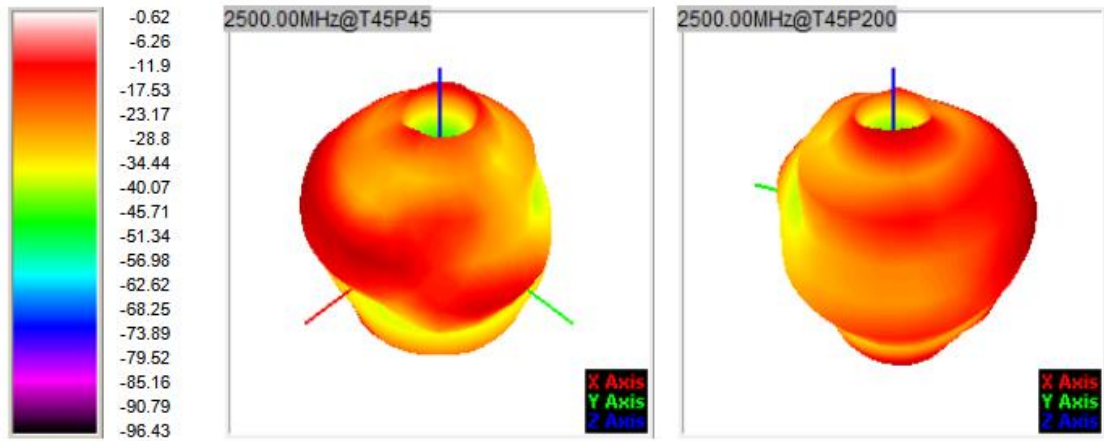
TDD-B38



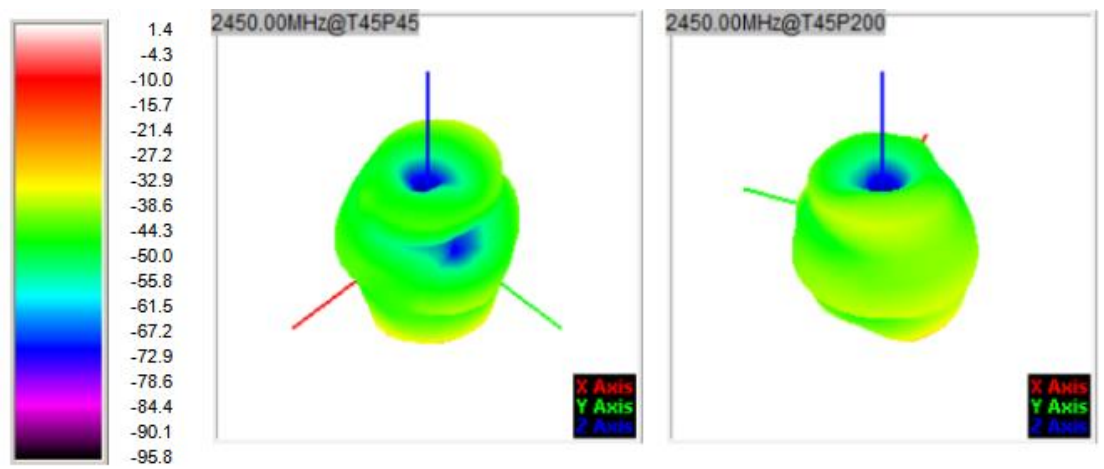
TDD-B40



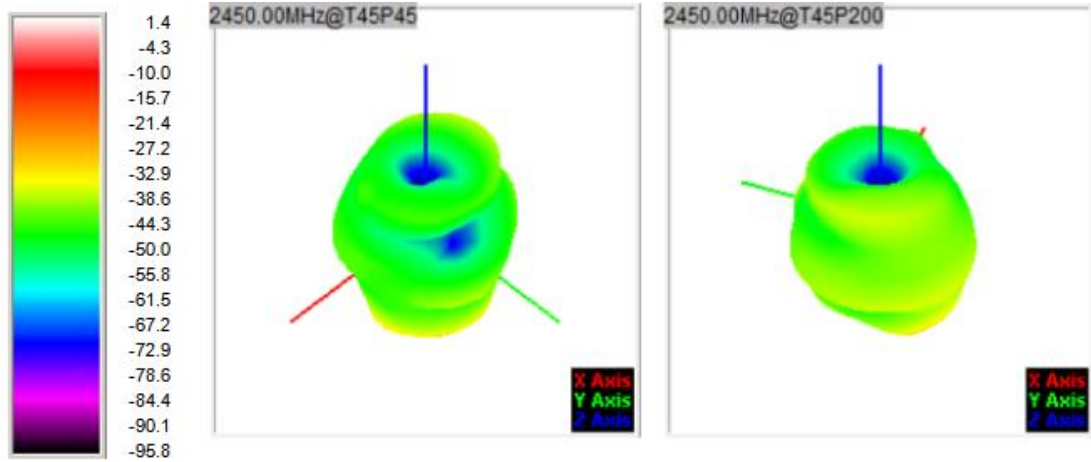
TDD-B41



2.4GWIFI



BT



7. Antenna drawing

