

Antenna Test Report

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Customer: 华沃

Project: T6396E

RF Engineer: Zhou chao ming

Testing Date: 2024.01.12

1. Test Laboratory

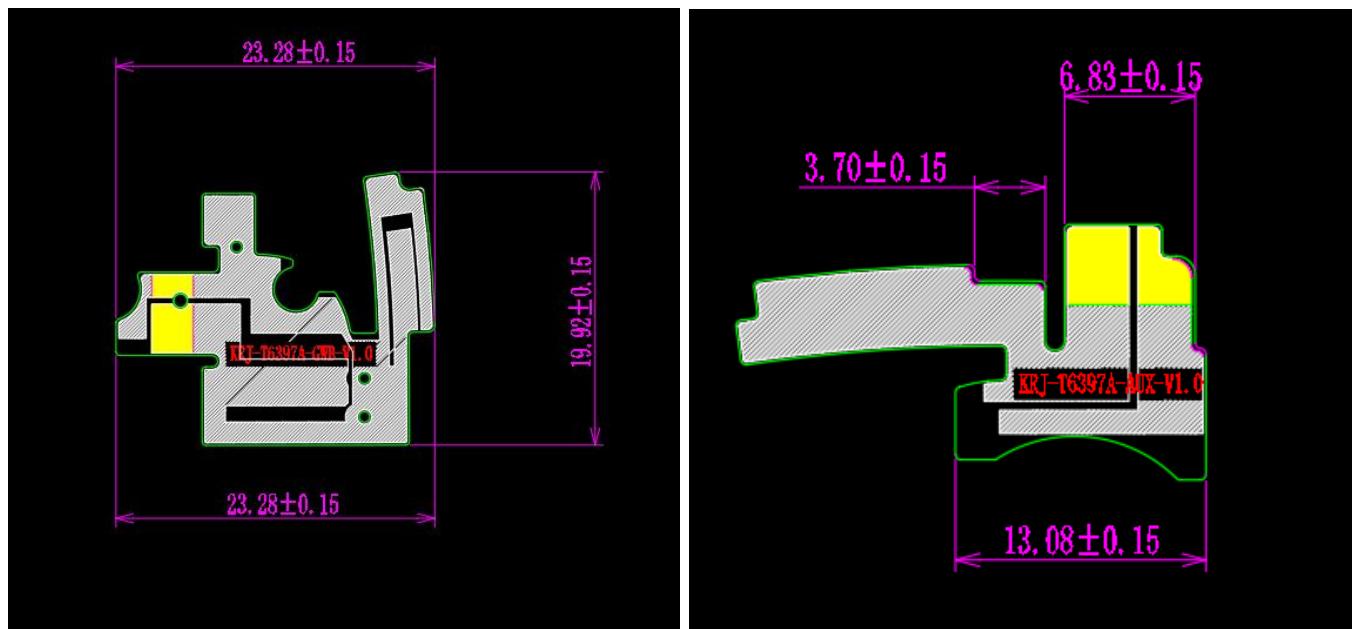
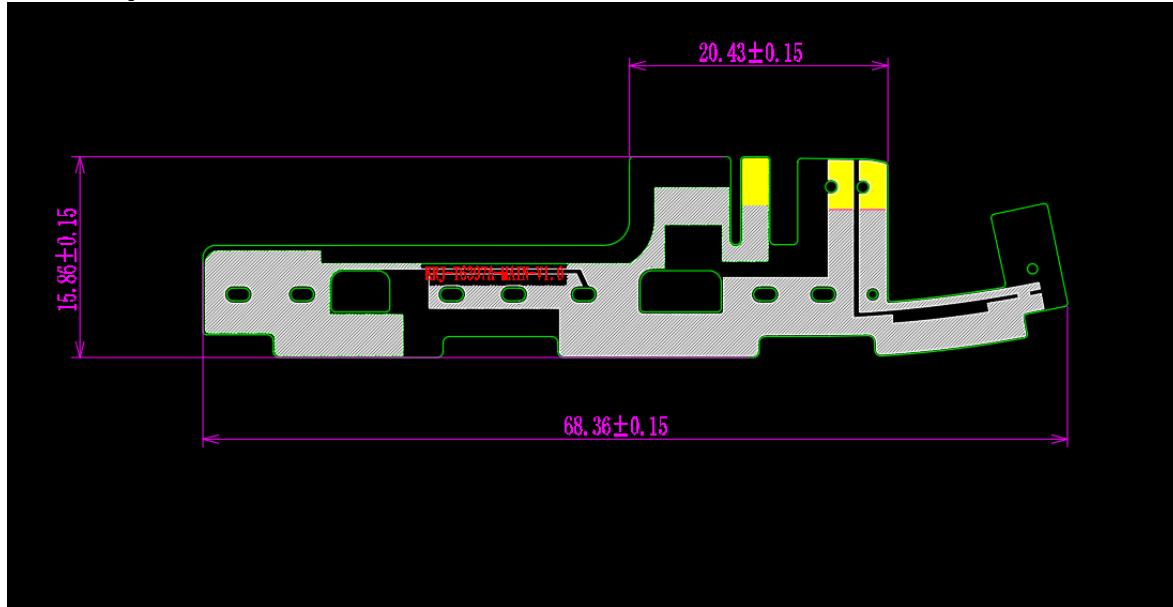
1.1 Notes of the Test report

This report shall not be reproduced in full or partial. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of applicable standards stated above.

1.2 Test facility

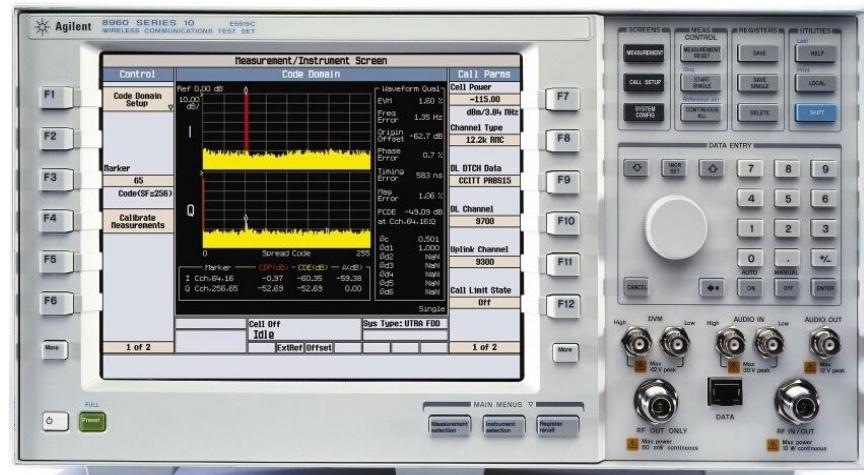
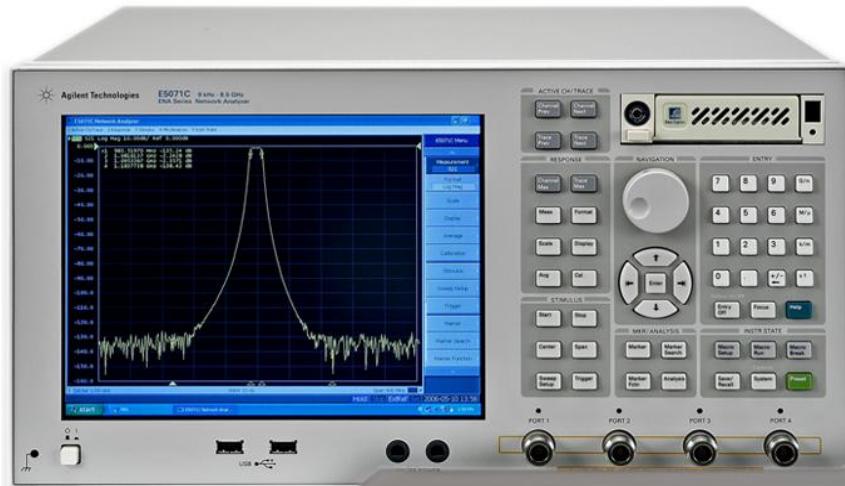
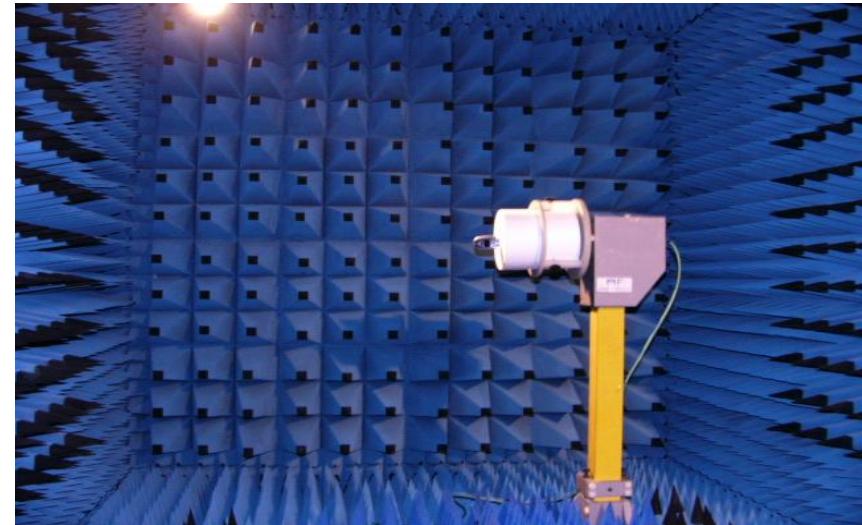
Guangping Microwave Anechoic Chamber : testing frequency ranges from 600MHz to 6GHz .

2: Product specification



3. The Equipment of Active Test

- 1: Anechoic Chamber 7x4x3 m (3D)
- 2: Rohde & Schwarz CMW500
- 3: AGILENT 8960 5515C
- 4: Network Analyzer-AGILENT ENA5071B



4. Test Conditions:

The active test devices are sequentially connected as follows:

CMW500→50Ohmic coaxialCable→guangping system→Mobile phone to be tested

4.1. Test site :

AW microwave anechoic chamber: the test frequency range is 400MHz - 6GHz, the quiet zone range is 40cm circumference, and the reflectivity is less than - 90 dB.

5. Test Results

5.1 Gain and Efficiency

Passive parameters of main antenna:

Working frequency band: 617~960MHZ, 1710~2700MHZ

GSM850/900/1800/1900

WCDMA:B2/B4/B5

LTE:B2/B4/B5/B12/B17/B66/B71/B41

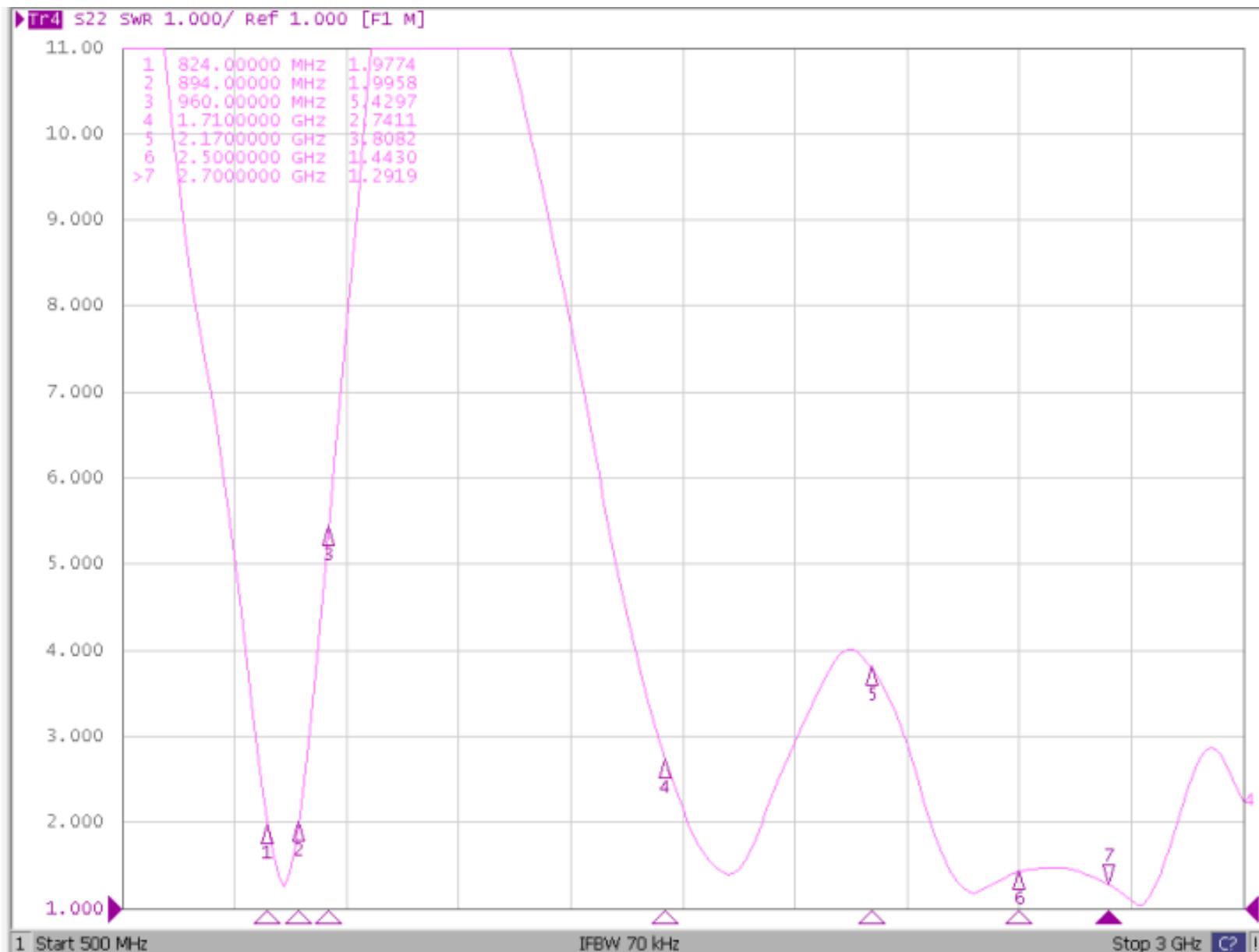
5.2 Test settings

The connection of VSWR test device is:

E5071C network analyzer → 50Ohmic coaxial Cable → 110mm Long copper tube → Test fixture

频段Band	效率 (Effi)	gain增益(dBi)
GSM900	25%	0. 33DBI
GSM850/WCDMA B5/LTE B5	35. 3%	0. 4DBI
DCS1800	42. 3%	1. 8DBI
PCS1900, WCDMA B2. LTE B2	43. 5%	1. 8DBI
WCDMA B4, LTE B4/B66	43. 8%	1. 8DBI
LTE B41	51%	2. 0DBI
LTE B12/B17	31. 4%	0. 3DBI
LTE B71	28. 1%	0. 2DBI
GPS	45. 6%	1. 2DBI
2. 4GWIFI/BT	46. 3%	2. 1DBI
5GWIFI	30. 2%	1. 2DBI

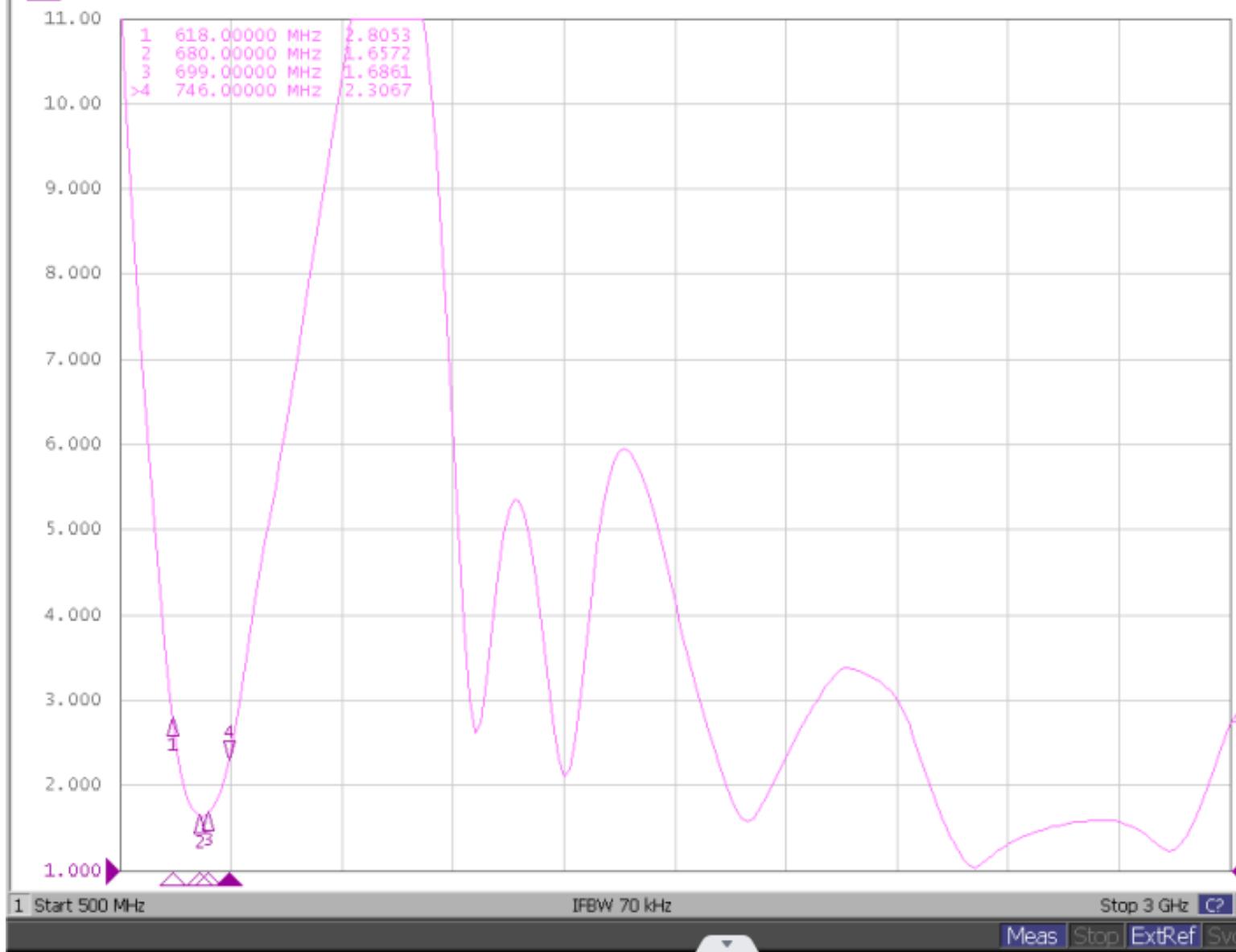
5.3 VSWR



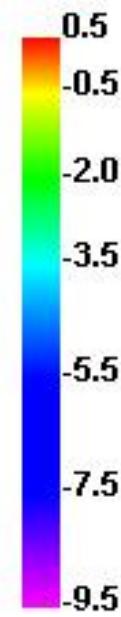
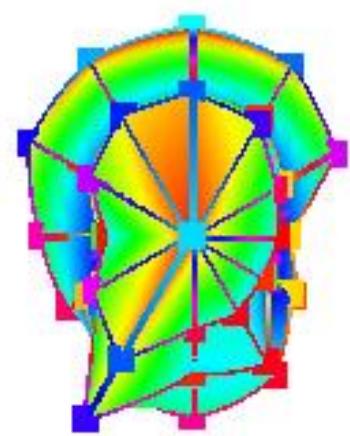
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

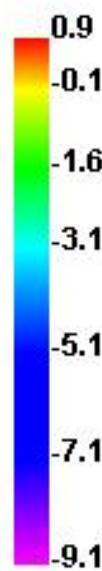
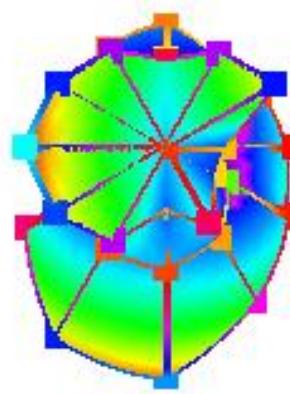
► Tr4 S22 SWR 1.000 / Ref 1.000 [F1 M]



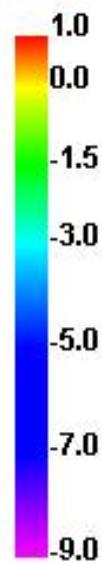
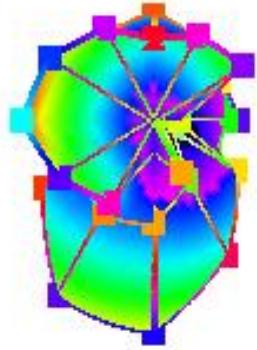
740.000MHz



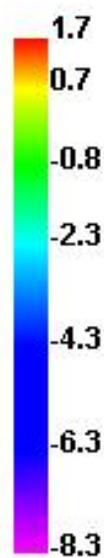
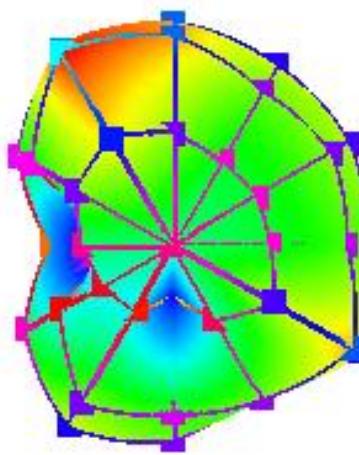
830.000MHz



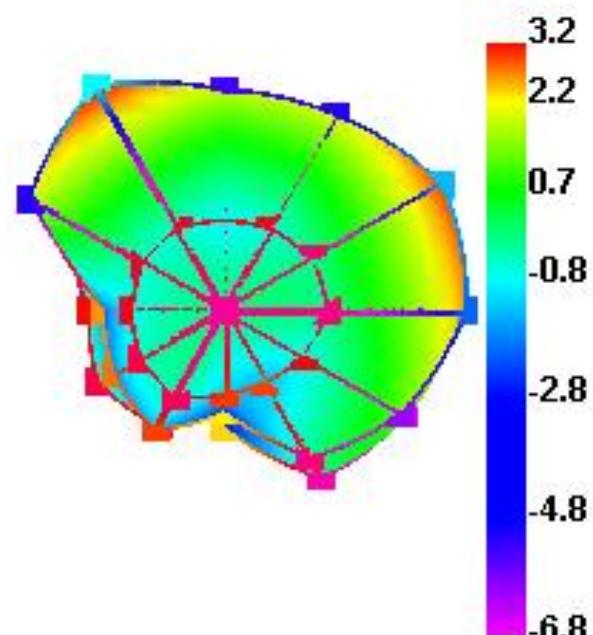
900.000MHz



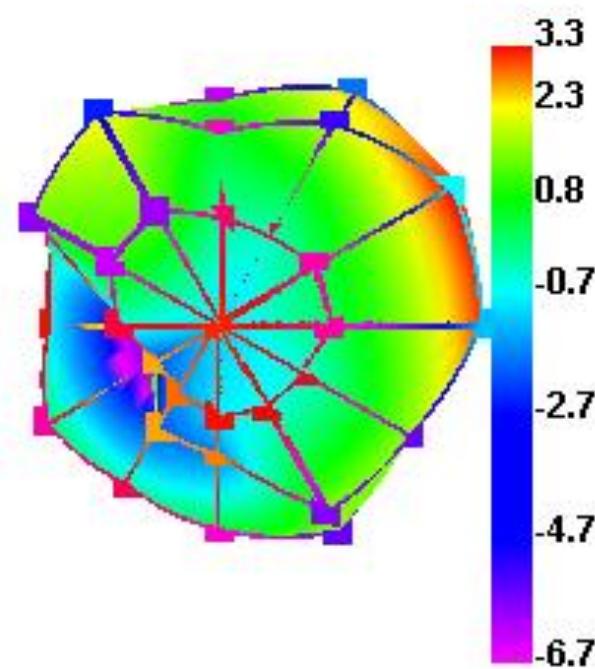
1710.000MHz



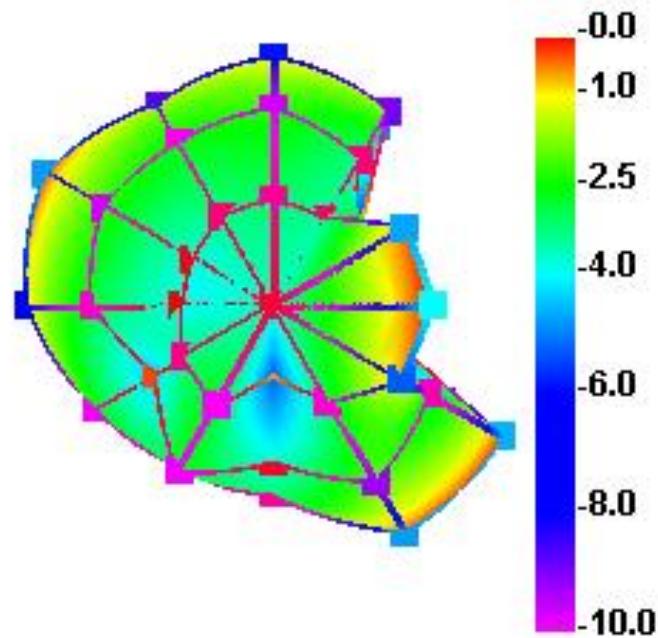
1880.000MHz



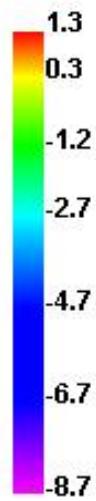
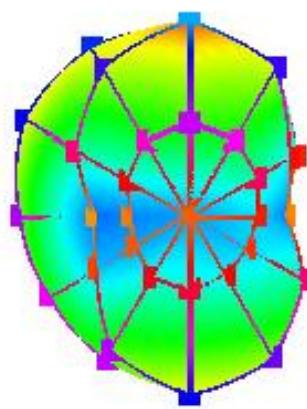
2170.000MHz



2490.000MHz



1575.000MHz



2450.000MHz

