

承 認 書

Specification for Approval

客戶名稱 :光寶科技股份有限公司

客戶型號: 05PS17

客戶料號: 20-01844-00A

翔訊型號 :SC-323A

PIFA Antenna

Date: 2006/08/20

Customer Approval

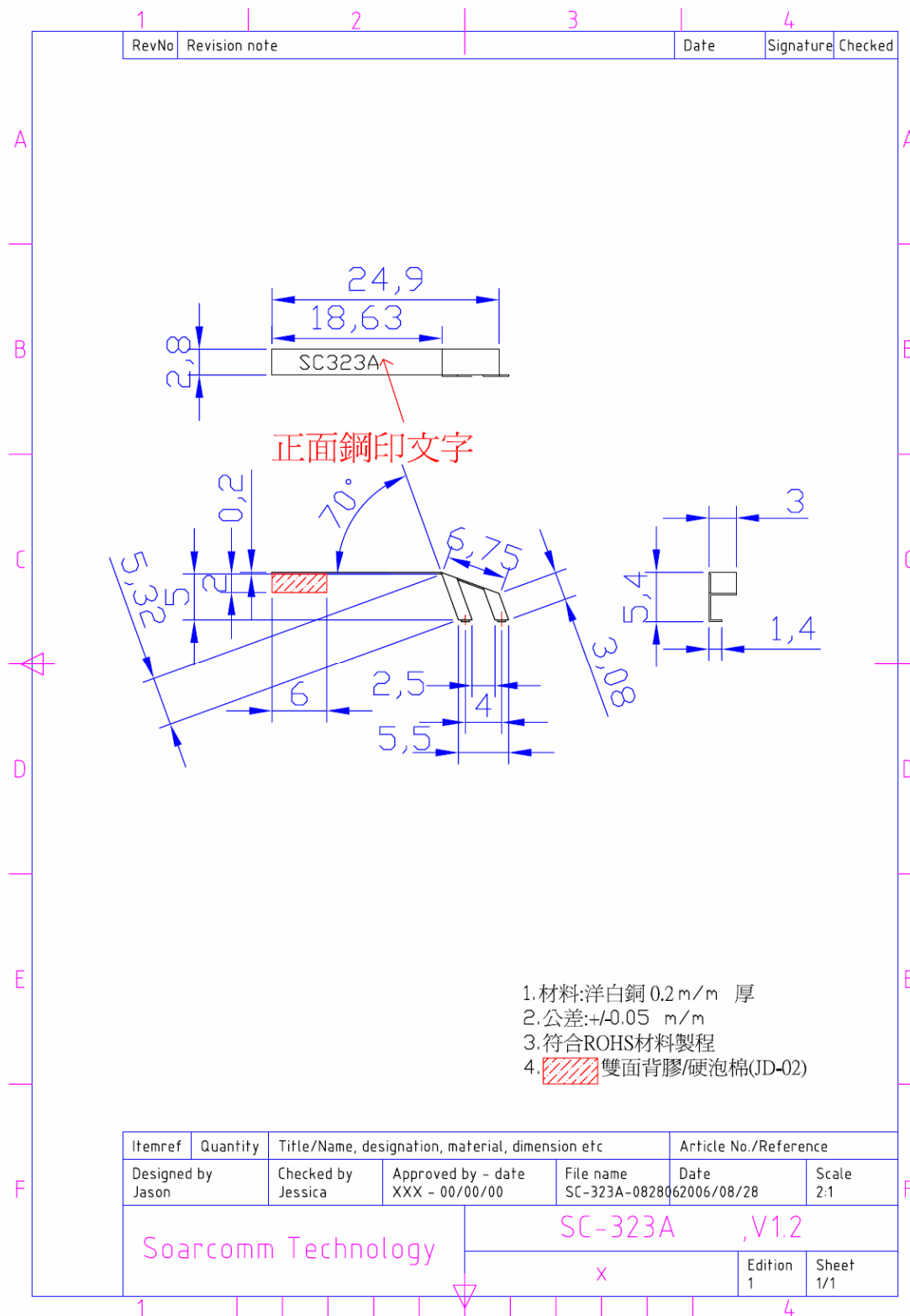
翔訊科技有限公司

Soarcomm Technology Company

Tel: 02-2625-2547 Fax:02-8631-2232

I. Outline drawing

Part No: SC-323A PIFA ANTENNA



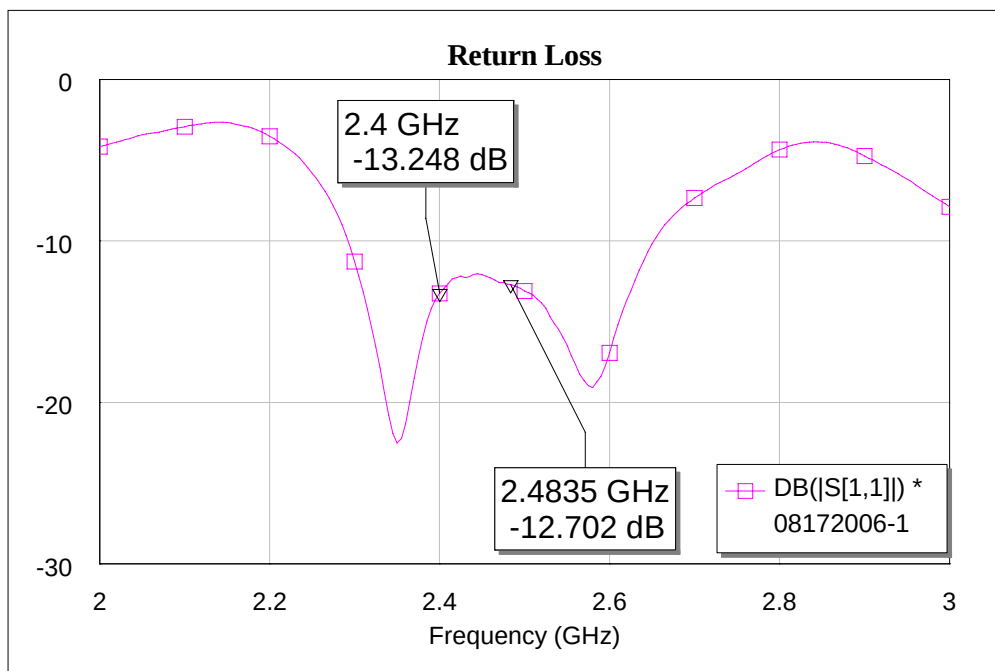
II. Electrical Properties:

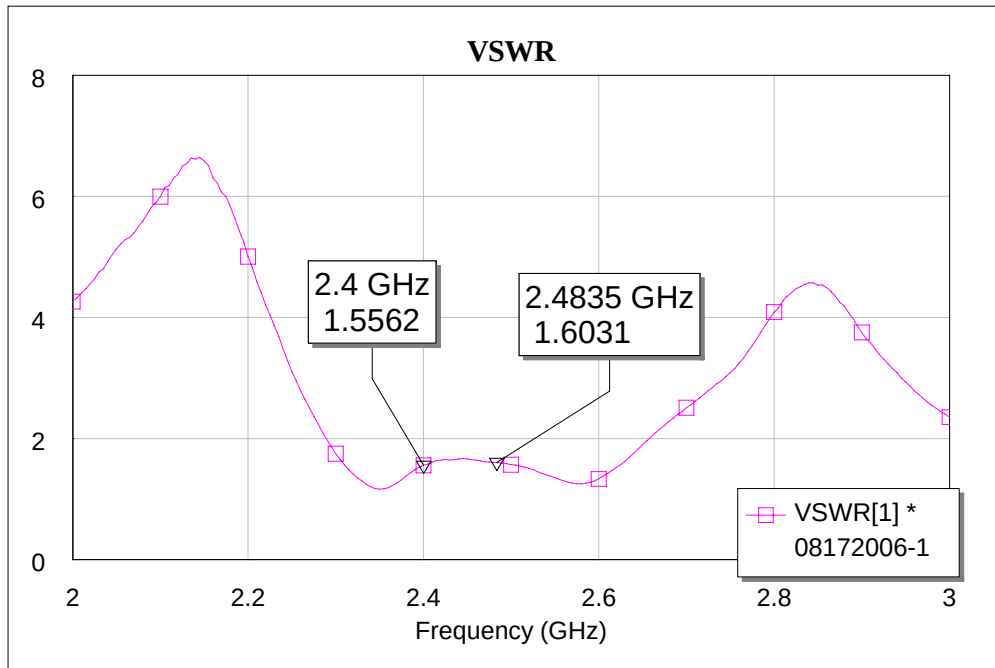
- | | |
|-----------------------|----------------------|
| 1. Frequency Range: | 2.4-2.485 GHz |
| 2. Impedance: | 50 Ohms |
| 3. V.S.W.R: | 2.0(Max.) |
| 4. Gain: | 2.0(Max.) |
| 5. Polarization: | Vertical |
| 6. Radiation: | Omni |
| 7. Electrical Length: | $1/4 \lambda$ Dipole |

III. Mechanical Properties:

- | | |
|---------------------------|---------------|
| 1. Operation Temperature: | -20°C ~ +70°C |
| 2. Storage Temperature: | -30°C ~ +80° |

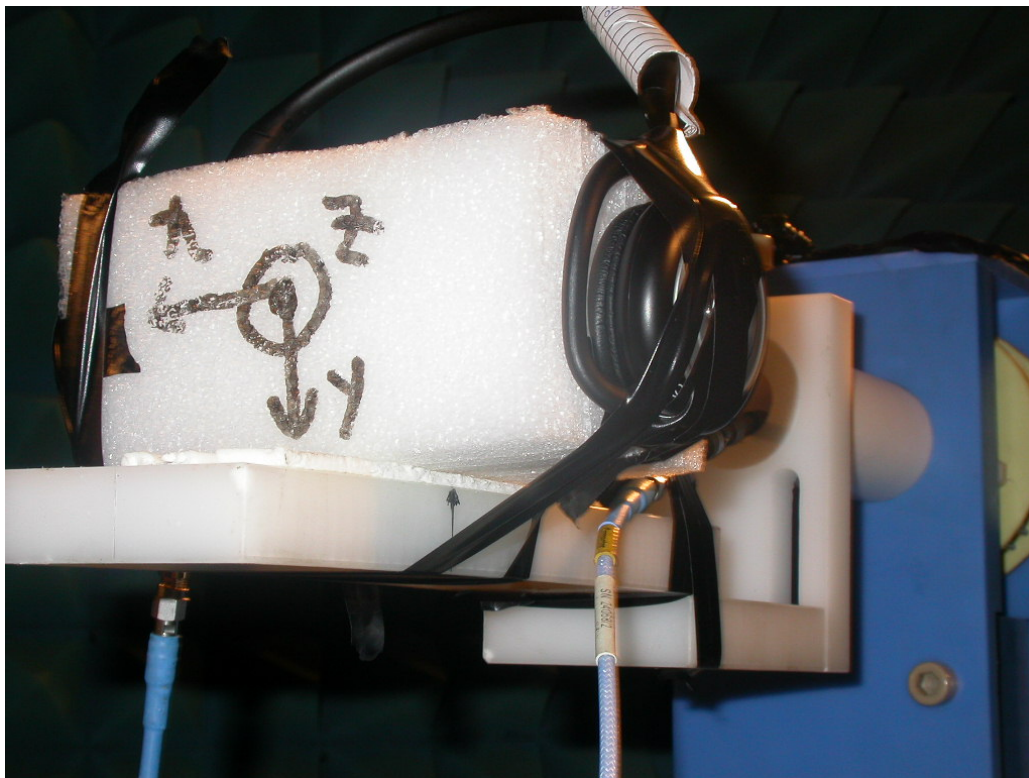
IV. Input Impedance Reports





V. Antenna Pattern Reports (2.4GHz, 2.45GHz, 2.48GHz)

X, Y, Z axes definition





Advance Data Technology Corporation 誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kueishan, Taoyuan, Taiwan, R.O.C.
Tayuan Lab : 13-1 Lane 19, Wen Shan 3rd St., Kueishan, Taoyuan, Taiwan, R.O.C.
Hsinchu Lab: 81-1 Luliokeng, 9th Lin, Wulung Tsuen, Chunglin, Hsinchu, Taiwan, R.O.C.

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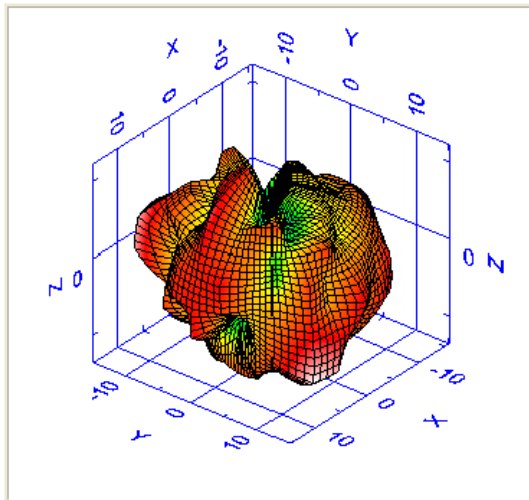
Model : BSH-191
Remark : 2.4G
Tested by : AARON

Location: **RF Chamber**
Temperatuer (°C): **22.00**

Date: **2006/8/14**
Humidity (%): **65.00**

Time: **18:30:39**
Approved by:

Total View



Frequency (MHz)

2400.00

TRP (dBm)

1.04

Efficiency (dB)

1.04

NHPRP +/- 45 (dBm)

0.32

NHPRP +/- 30 (dBm)

-0.5

Directivity (dBi)

4.21

Gain (dBi)

5.25

Average Gain (dB)

1.04

Peak EIRP (dBm)

5.25

Max. Power (dBm)

5.25

Min. Power (dBm)

-11.58

Avg. Power (dBm)

0.44

Max. / Min. Ratio (dB)

16.83

Max. / Avg. Ratio (dB)

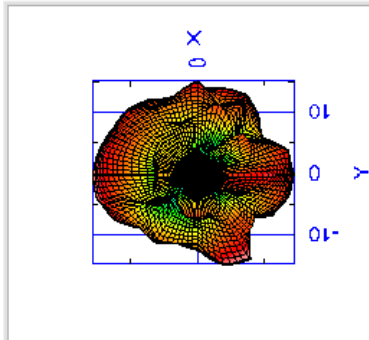
4.81

Min. / Avg. Ratio (dB)

-12.02

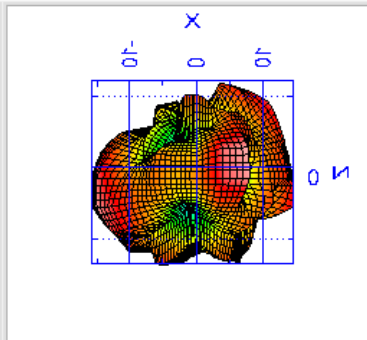
Total , Top View

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Elevation = 0.0
Roll = 0.0



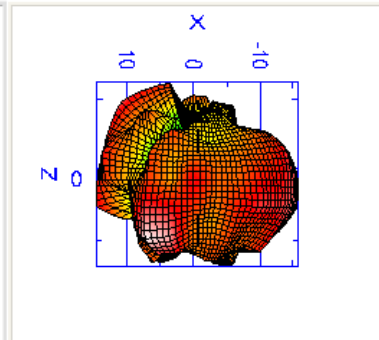
Total , Back Face View

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Roll = 0.0



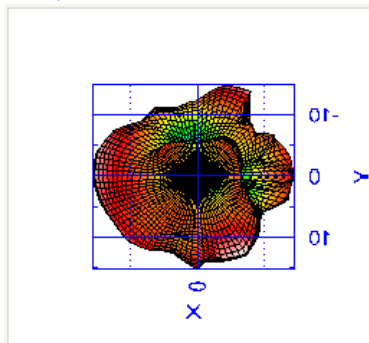
Total , Front Face View

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Roll = -90.0



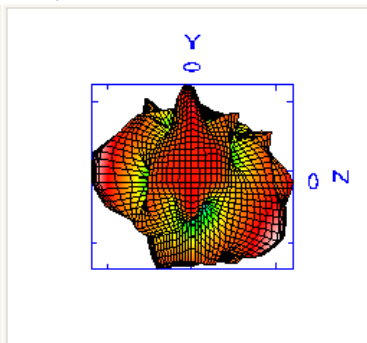
Total , Bottom View

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Roll = 0.0



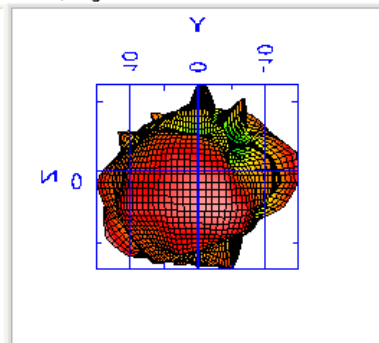
Total , Left Side View

Azimuth = 90.0
Elevation = 0.0
Roll = 90.0



Total , Right Side View

Azimuth = -90.0
Elevation = 0.0
Roll = 90.0





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Model : BSH-191
Remark : 2.45G
Tested by : AARON

Location: **RF Chamber**

Date: **2006/8/14**

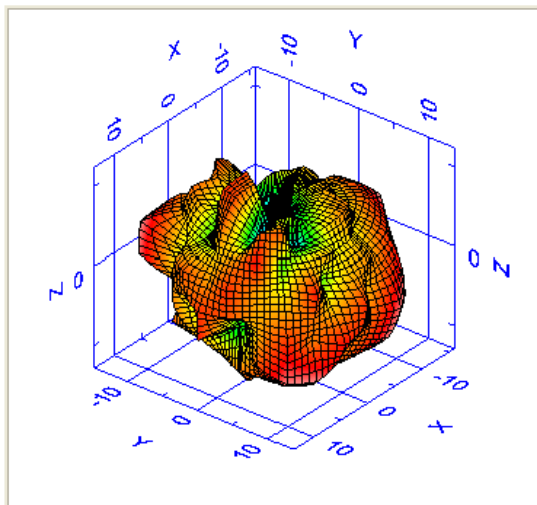
Time: **19:18:34**

Temperatuer (°C): **22.00**

Humidity (%): **65.00**

Approved by:

Total View



Frequency (MHz)

2450.00

TRP (dBm)

0.18

Efficiency (dB)

0.18

NHPRP +/- 45 (dBm)

-0.5

NHPRP +/- 30 (dBm)

-1.32

Directivity (dBi)

3.93

Gain (dBi)

4.11

Average Gain (dB)

0.18

Peak EIRP (dBm)

4.11

Max. Power (dBm)

4.11

Min. Power (dBm)

-12.09

Avg. Power (dBm)

-0.51

Max. / Min. Ratio (dB)

16.2

Max. / Avg. Ratio (dB)

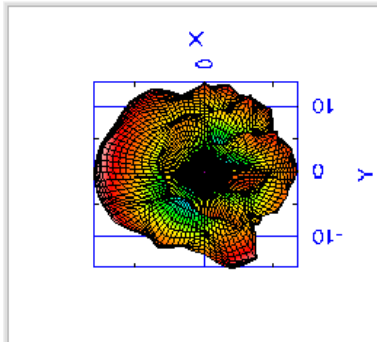
4.62

Min. / Avg. Ratio (dB)

-11.58

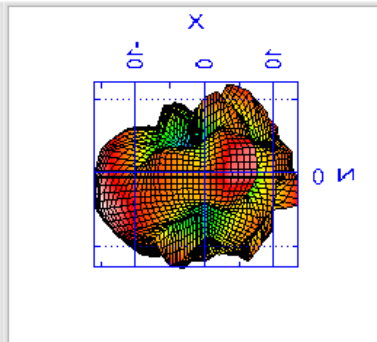
Total , Top View

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



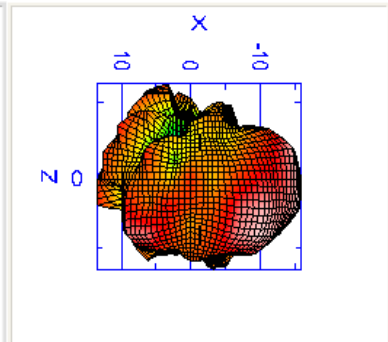
Total , Back Face View

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Elevation = 90.0
Roll = 0.0



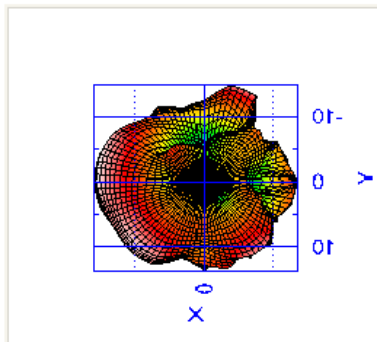
Total , Front Face View

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Elevation = 90.0
Roll = -90.0



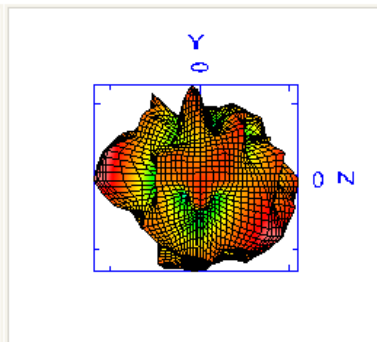
Total , Bottom View

Azimuth = 0.0
Elevation = 180.0
Roll = 0.0



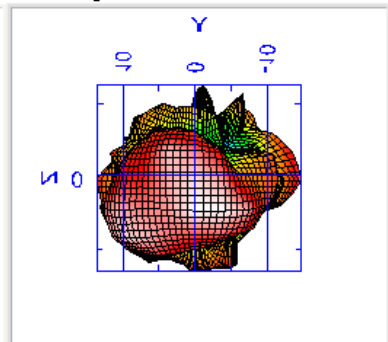
Total , Left Side View

Azimuth = 90.0
Elevation = 0.0
Roll = 90.0



Total , Right Side View

Azimuth = -90.0
Elevation = 0.0
Roll = 90.0





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Model : BSH-191
Remark : 2.48G
Tested by : AARON

Location: **RF Chamber**

Date: **2006/8/14**

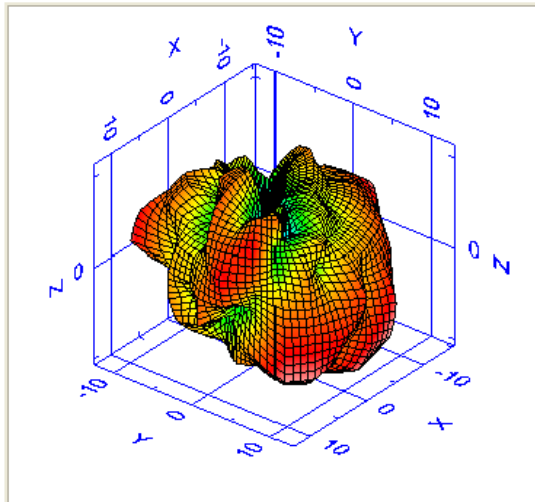
Time: **19:49:21**

Temperatuer (°C): **22.00**

Humidity (%): **65.00**

Approved by:

Total View



Frequency (MHz)

2480.00

TRP (dBm)

0.24

Efficiency (dB)

0.24

NHPRP +/- 45 (dBm)

-0.39

NHPRP +/- 30 (dBm)

-1.28

Directivity (dBi)

4.17

Gain (dBi)

4.42

Average Gain (dB)

0.24

Peak EIRP (dBm)

4.42

Max. Power (dBm)

4.42

Min. Power (dBm)

-10.98

Avg. Power (dBm)

-0.52

Max. / Min. Ratio (dB)

15.39

Max. / Avg. Ratio (dB)

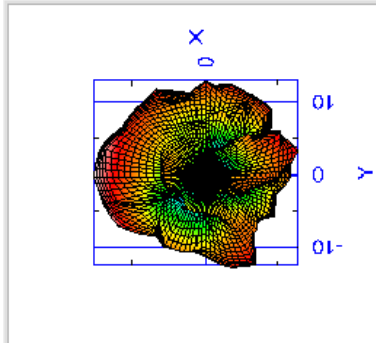
4.93

Min. / Avg. Ratio (dB)

-10.46

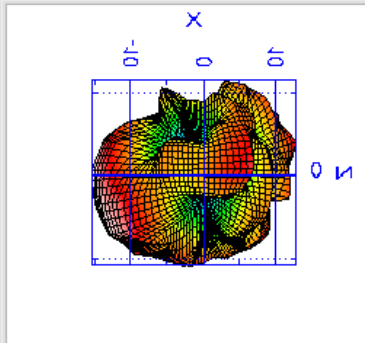
Total , Top View

Azimuth = 0.0
Elevation = 0.0
Roll = 0.0



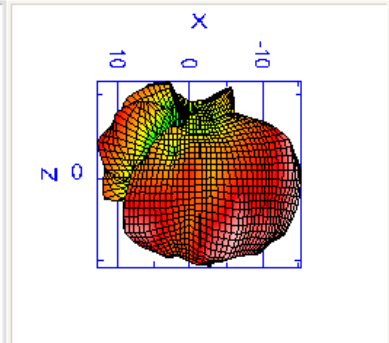
Total , Back Face View

Azimuth = 0.0
Elevation = 90.0
Roll = 0.0



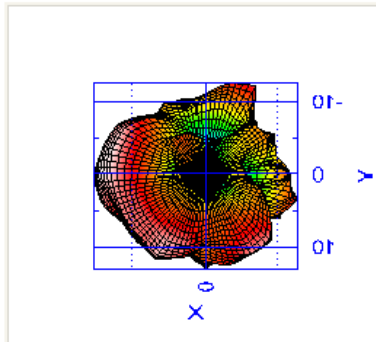
Total , Front Face View

Azimuth = 90.0
Elevation = 90.0
Roll = -90.0



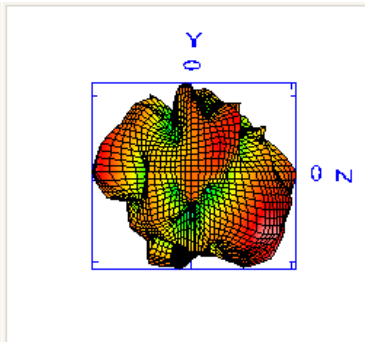
Total , Bottom View

Azimuth = 0.0
Elevation = 180.0
Roll = 0.0



Total , Left Side View

Azimuth = 90.0
Elevation = 0.0
Roll = 90.0



Total , Right Side View

Azimuth = -90.0
Elevation = 0.0
Roll = 90.0

