

# 維克摩爾產品承認書

## Specification For Approval

日期：2018/7/2

Date

編號：R-20180702006

File No.

承認廠商：彤晟科技有限公司

Customer

製造廠商：維克摩爾科技有限公司

Manufacturer

型號品名 2.4/5G WIFI ANTENNA+RF CABLE 180mm

Part Number

Description VM2450-ASSY1005 453300000006

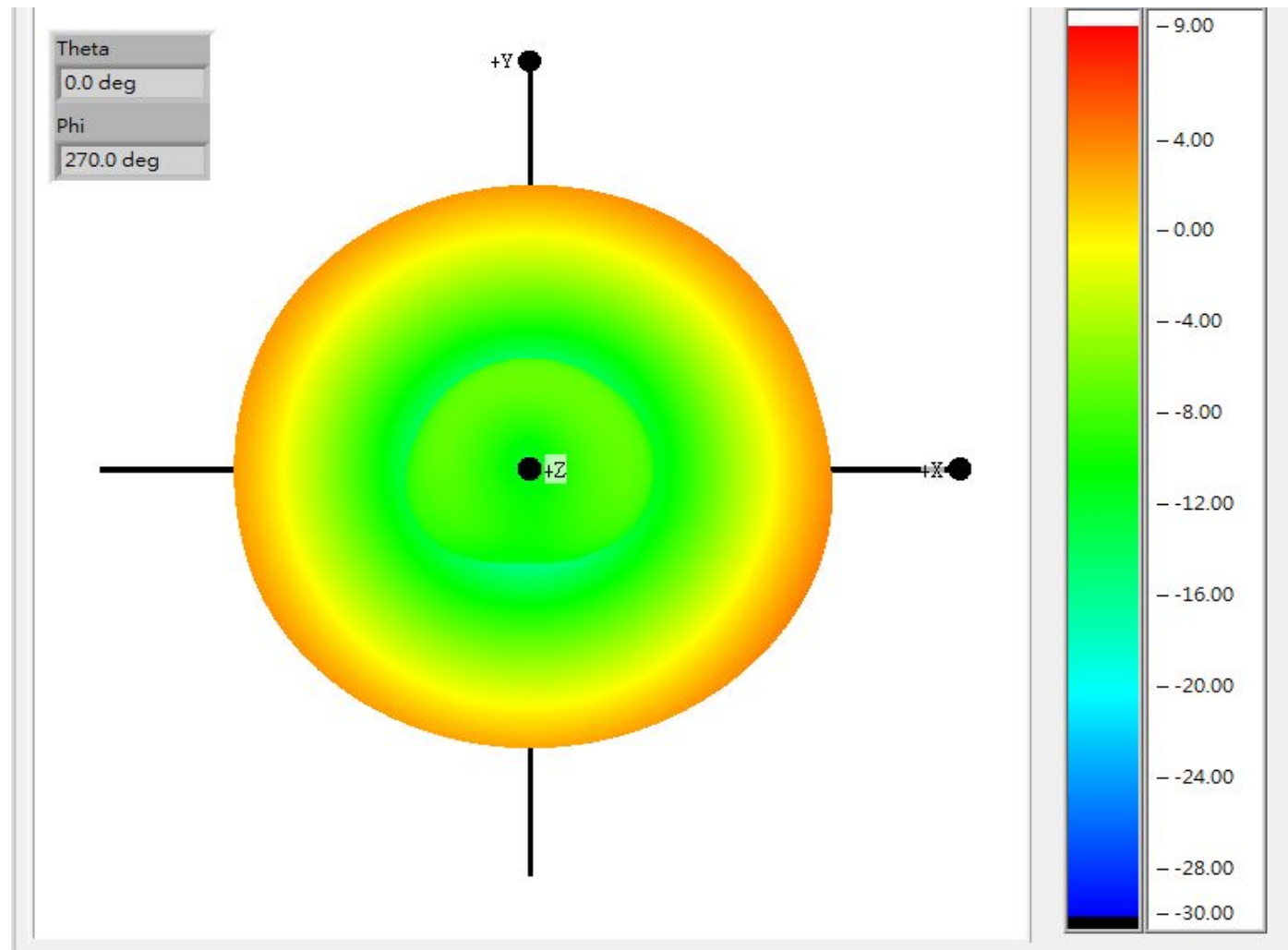
廠商審核：

Approved By

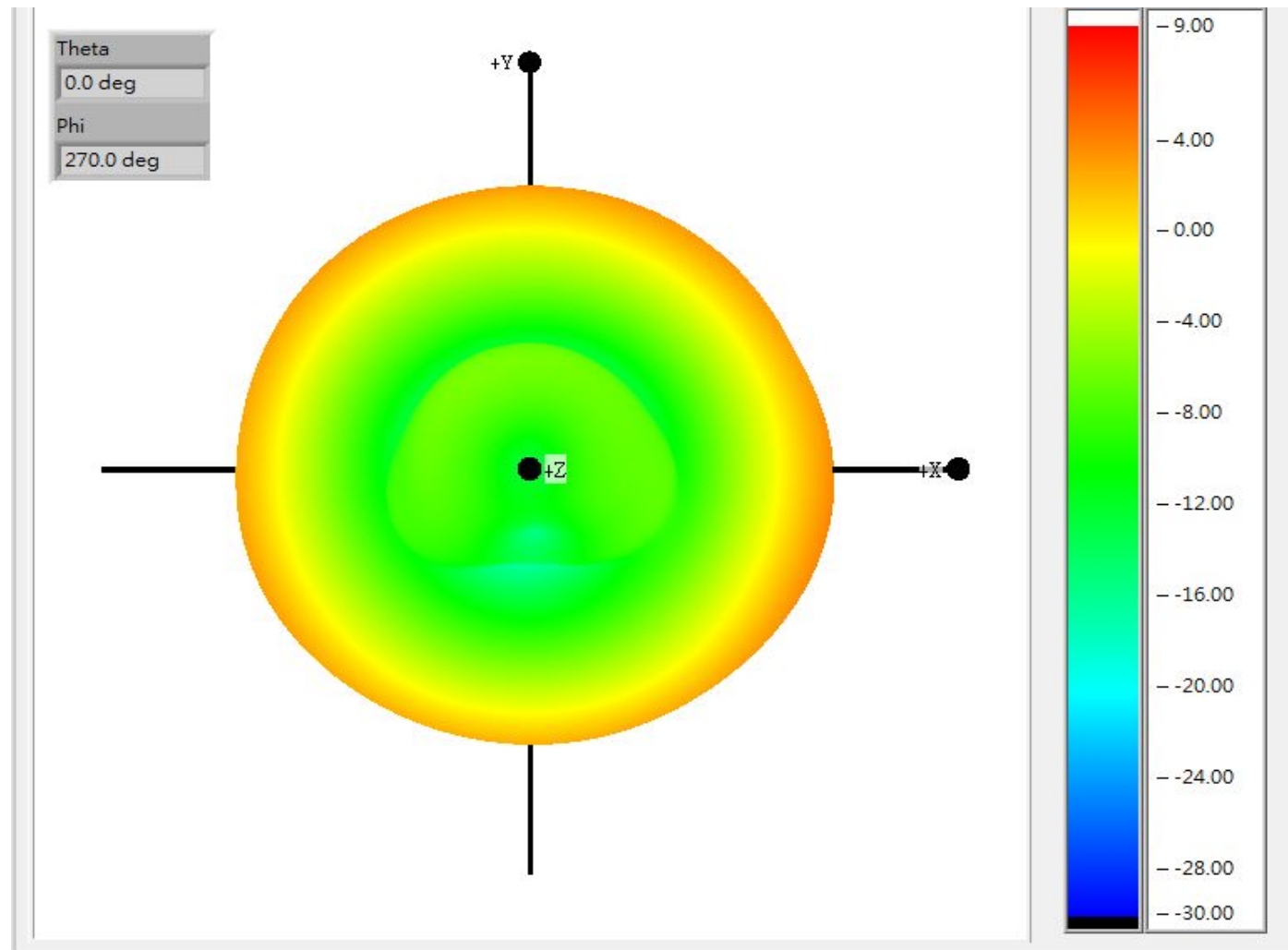


| Electrical Properties |             |         |
|-----------------------|-------------|---------|
| Frequency Range       | 2.4~2.5     | 5.X GHz |
| Impedance             | 50Ω         |         |
| V.S.W.R.              | ≤2.5        |         |
| Radiation             | Omni        |         |
| Gain                  | 4dBi        | 6dBi    |
| Polarization          | Vertical    |         |
| Mechanical Properties |             |         |
| Whip                  | ABS         |         |
| Connector             | Brass       |         |
| Weight                | -           |         |
| Operating Temp        | -20°C~+65°C |         |

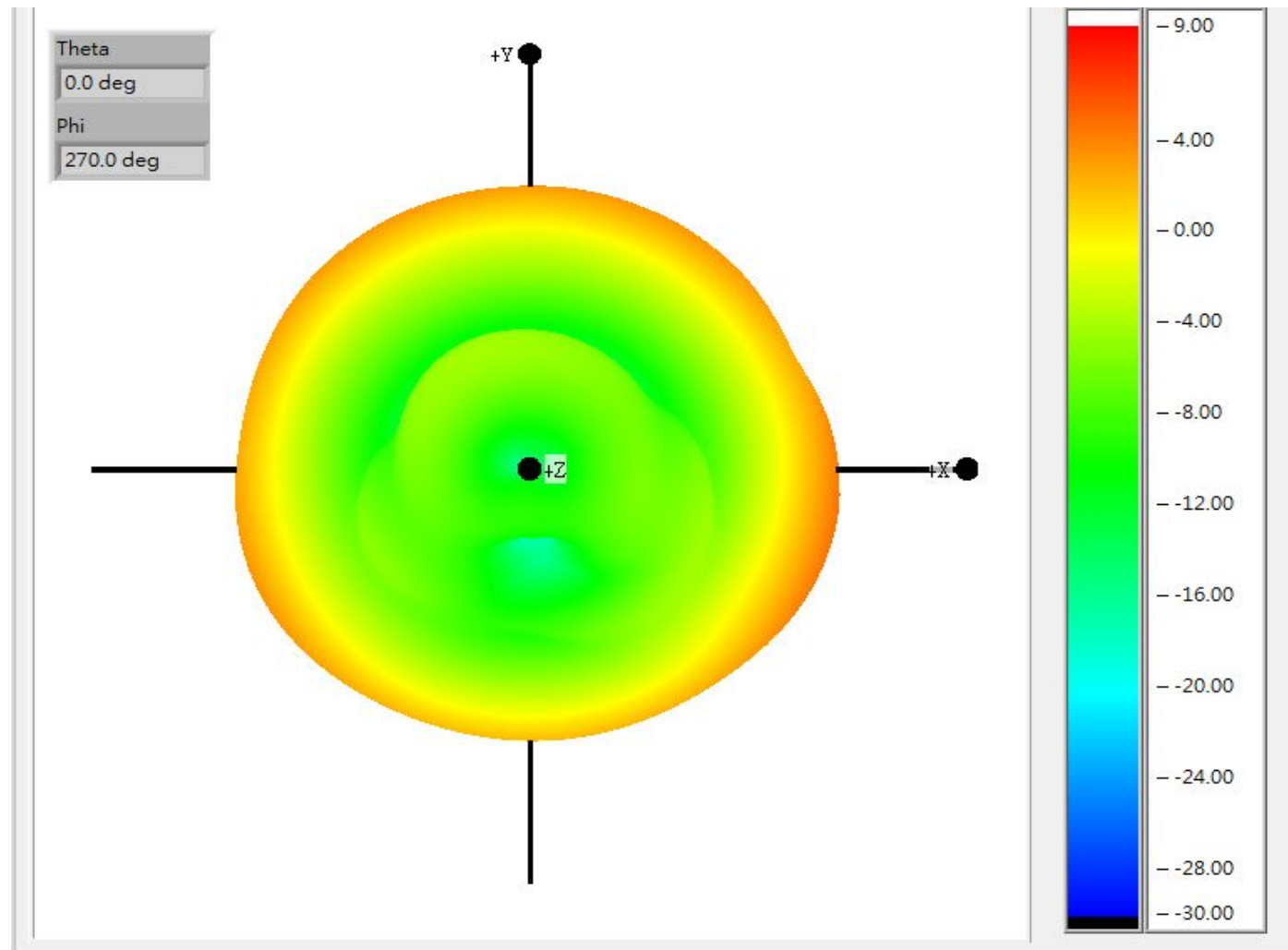
## 3D Radiation Pattern 2.4GHz



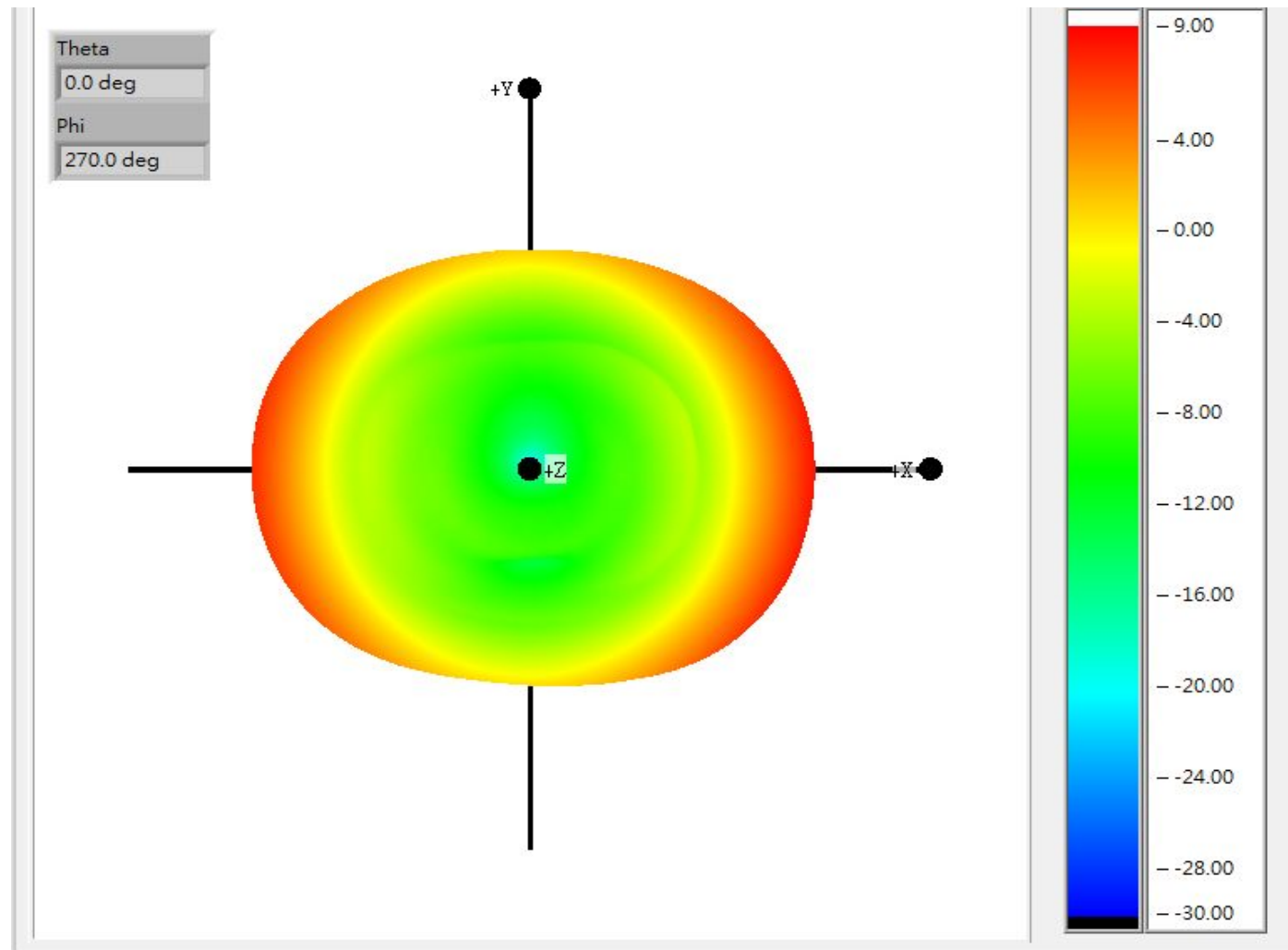
## 3D Radiation Pattern 2.45GHz



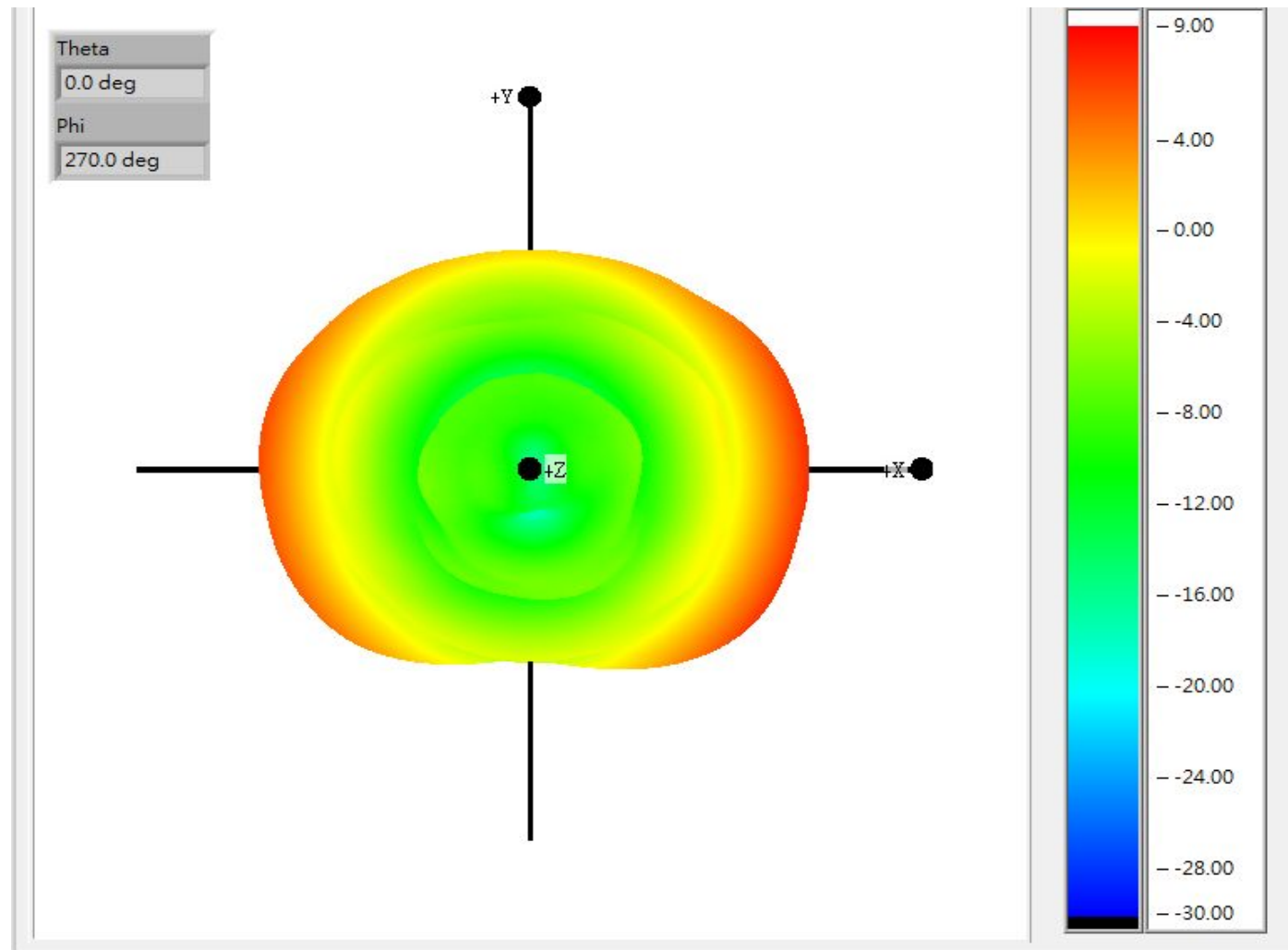
## 3D Radiation Pattern 2.5GHz



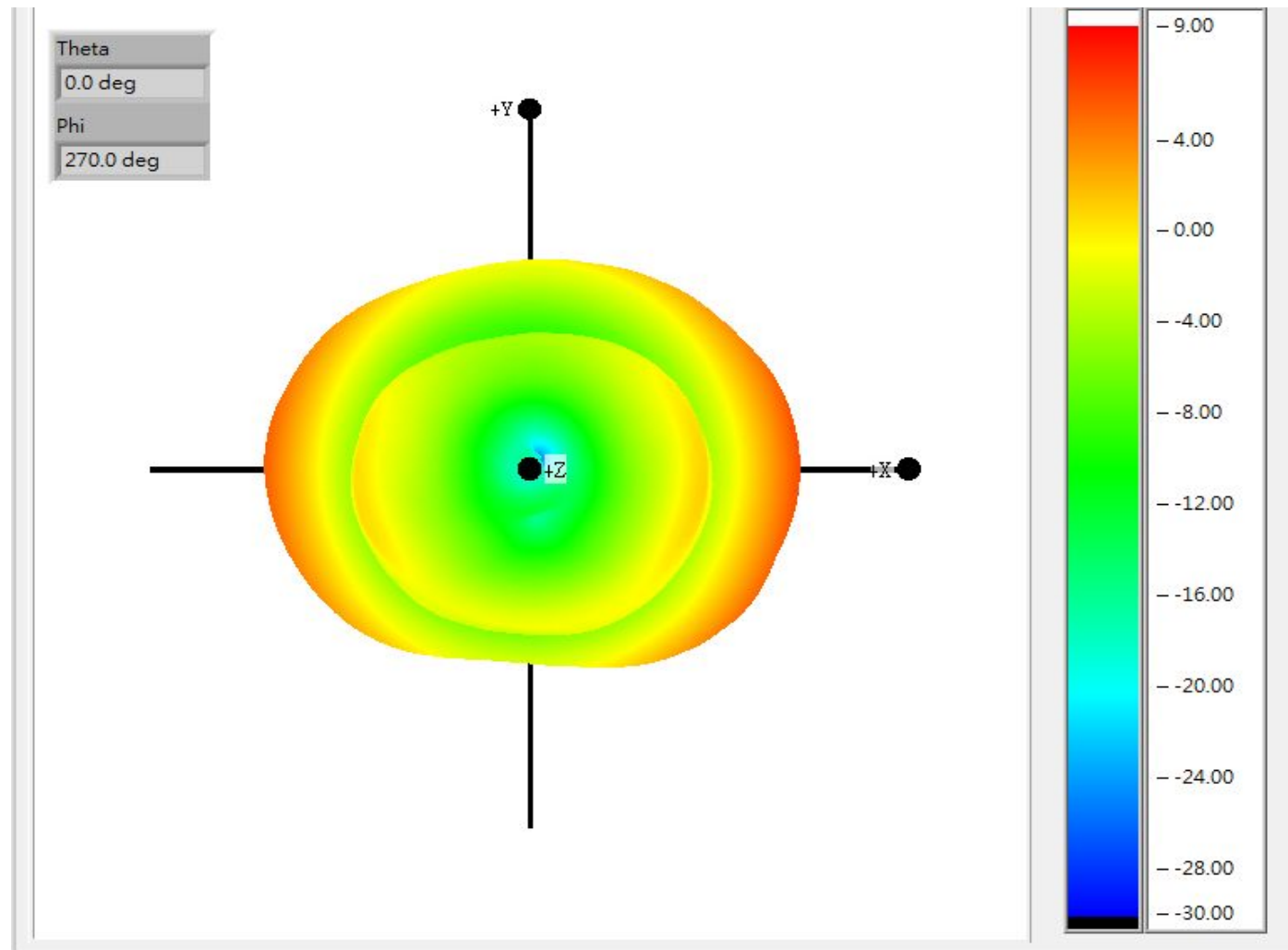
## 3D Radiation Pattern 5.15GHz



## 3D Radiation Pattern 5.55GHz



## 3D Radiation Pattern 5.85GHz



**Connector****SMA**

|                       |                                 |                                                                             |
|-----------------------|---------------------------------|-----------------------------------------------------------------------------|
| Electrical Properties | Impedance                       | 50 ohm                                                                      |
|                       | Frequency Range                 | 0~6 GHz                                                                     |
|                       | V.S.W.R                         | $\leq 1.5$                                                                  |
|                       | Working Voltage                 | $\leq 170V_{rms}$                                                           |
|                       | Dielectric Withstanding         | $\leq 500 V_{rms}$                                                          |
|                       | Voltage Insulation Resistance   | $\geq 2000$ Megohms                                                         |
|                       | Contact Resistance              | Center contact: 3.0 Milliohms (Max.)<br>Outer contact: 2.0 Milliohms (Max.) |
|                       | Recommended coupling nut torque | 4.0 in. lbs. ~ 8.8in. lbs.                                                  |
|                       | Coupling nut retention force    | $\geq 60$ lbs.                                                              |
|                       | Contact captivation axial       | $\geq 6$ lbs.                                                               |
|                       | Coupling Proof Torque           | 15 in-1bs.min                                                               |

|                       |                |
|-----------------------|----------------|
| Operating Temperature | -65°C ~ +165°C |
|-----------------------|----------------|

|                         |                |          |
|-------------------------|----------------|----------|
| Material Specifications | Material Data  | Material |
|                         | Body           | Brass    |
|                         | Center Contact | Brass    |
|                         | Insulator      | Teflon   |





|                                | <b>SMA</b>  |
|--------------------------------|-------------|
| <b>Impedance</b>               | 50 ohm      |
| <b>Max. Frequency</b>          | 0-6Ghz      |
| <b>V.S.W.R. (S11)</b>          | < 1.5       |
| <b>Insertion Loss (S21) dB</b> | 0.1 / GHz   |
| <b>Insulation Resistance</b>   | 5G ohm      |
| <b>Insulator</b>               | PTFE,PA46   |
| <b>Contact Resistance</b>      |             |
| center contact                 | 3m ohm      |
| outer contact                  | 2m ohm      |
| <b>Proof Voltage @ 50 Hz</b>   | 750 V       |
| <b>Contact Current Max.</b>    | 2.0A DC     |
| <b>Nut Retention Force</b>     | > 270 N     |
| <b>Engagement Force</b>        | /           |
| <b>Sparation Force</b>         | /           |
| <b>Mating Cycles</b>           | > 500       |
| <b>Working Temp. (C)</b>       | - 65 / +165 |
| <b>StorageTemp. (C)</b>        | - 40 / + 85 |