

K71 WIFI

Antenna Test Report

RD Manager	Supervisor	RD engineer	Sales engineer
Tim	Johnson	Apollo	Jerry



Well Green Technology Co., Ltd.
Kunshan Well Green Technology Co., Ltd.

TEL: +886-3-420-6428 ; FAX: +886-3-420-6418
TEL: +86-512-57464028 ; FAX: +86-512-57464118

1 Voltage Standing Wave Ration Peak Gain

1.1 直立

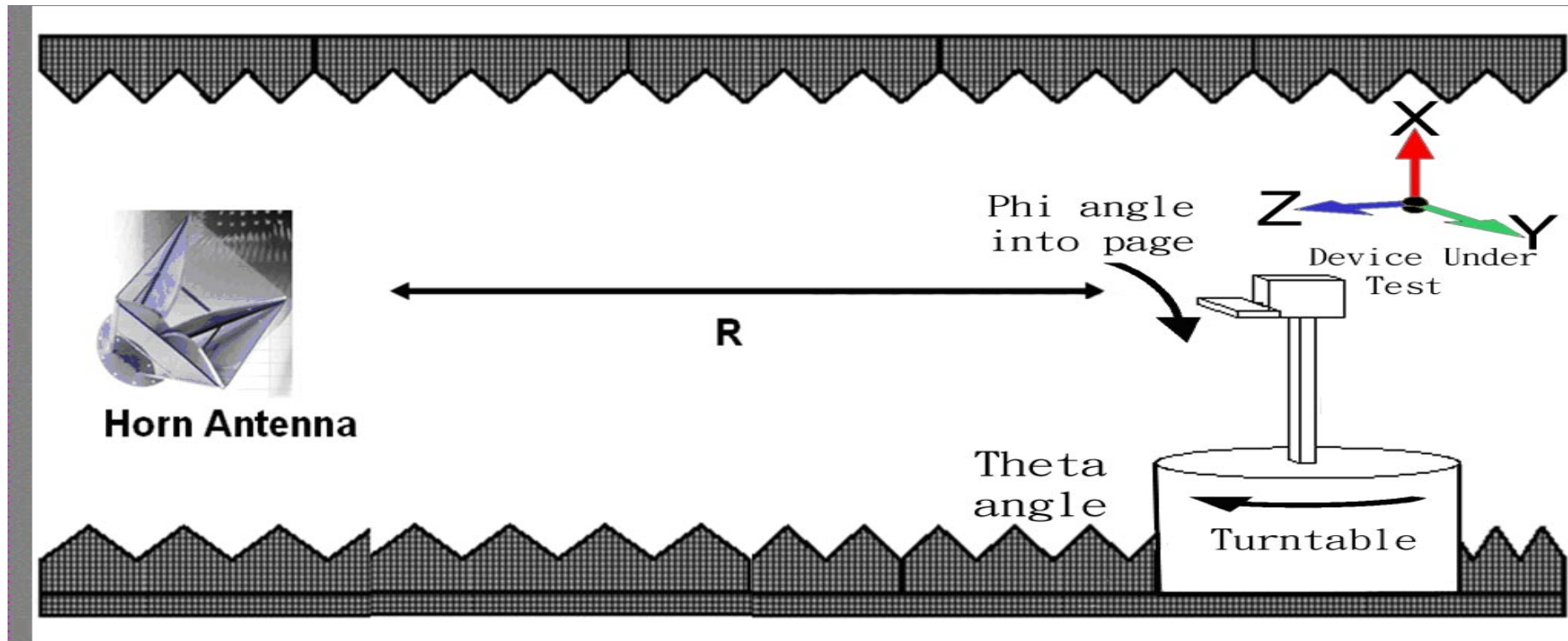
Frequency (MHz)	2400	2450	2500
Peak EIRP (dBm)	1.42	2.14	2.15
Tot. Rad. Pwr. (dBm)	-2.23	-1.39	-2.25

1.2 平躺

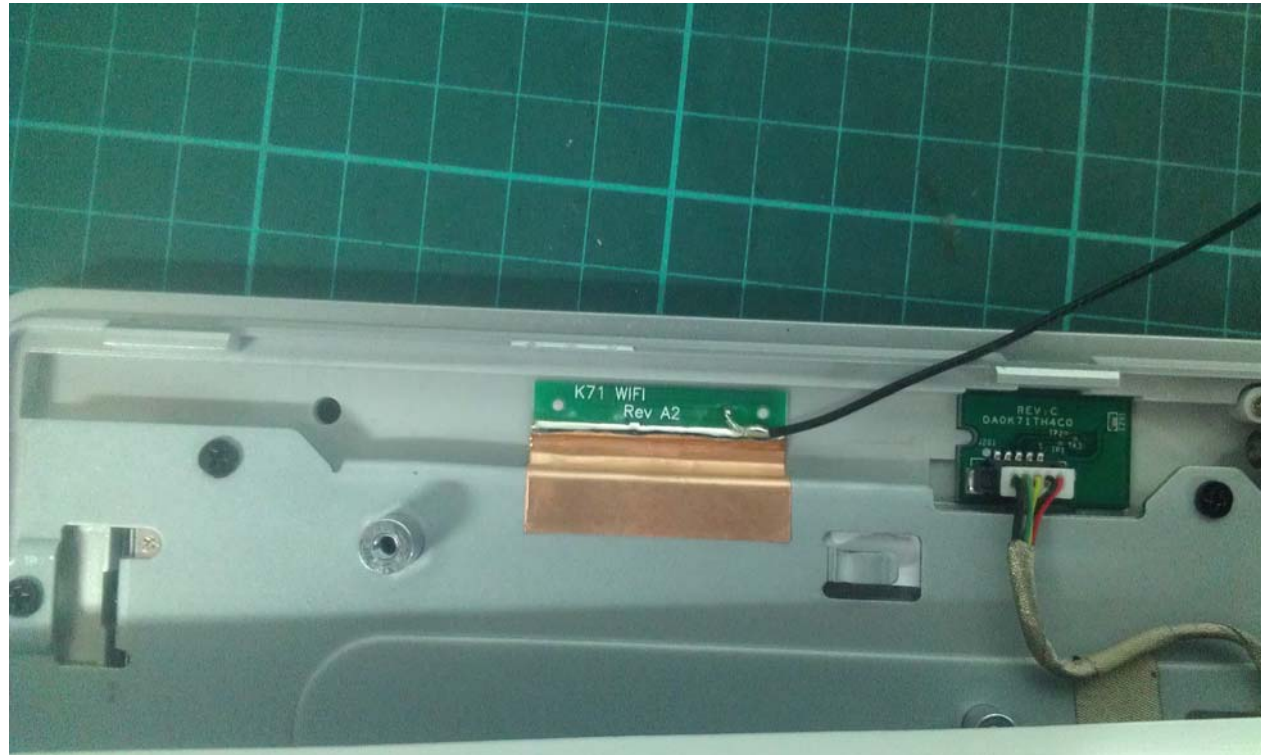
Frequency (MHz)	2400	2450	2500
Peak EIRP (dBm)	1.83	1.83	0.76
Tot. Rad. Pwr. (dBm)	-1.98	-1.17	-2.77

I 、 Antenna Testing Conditions:

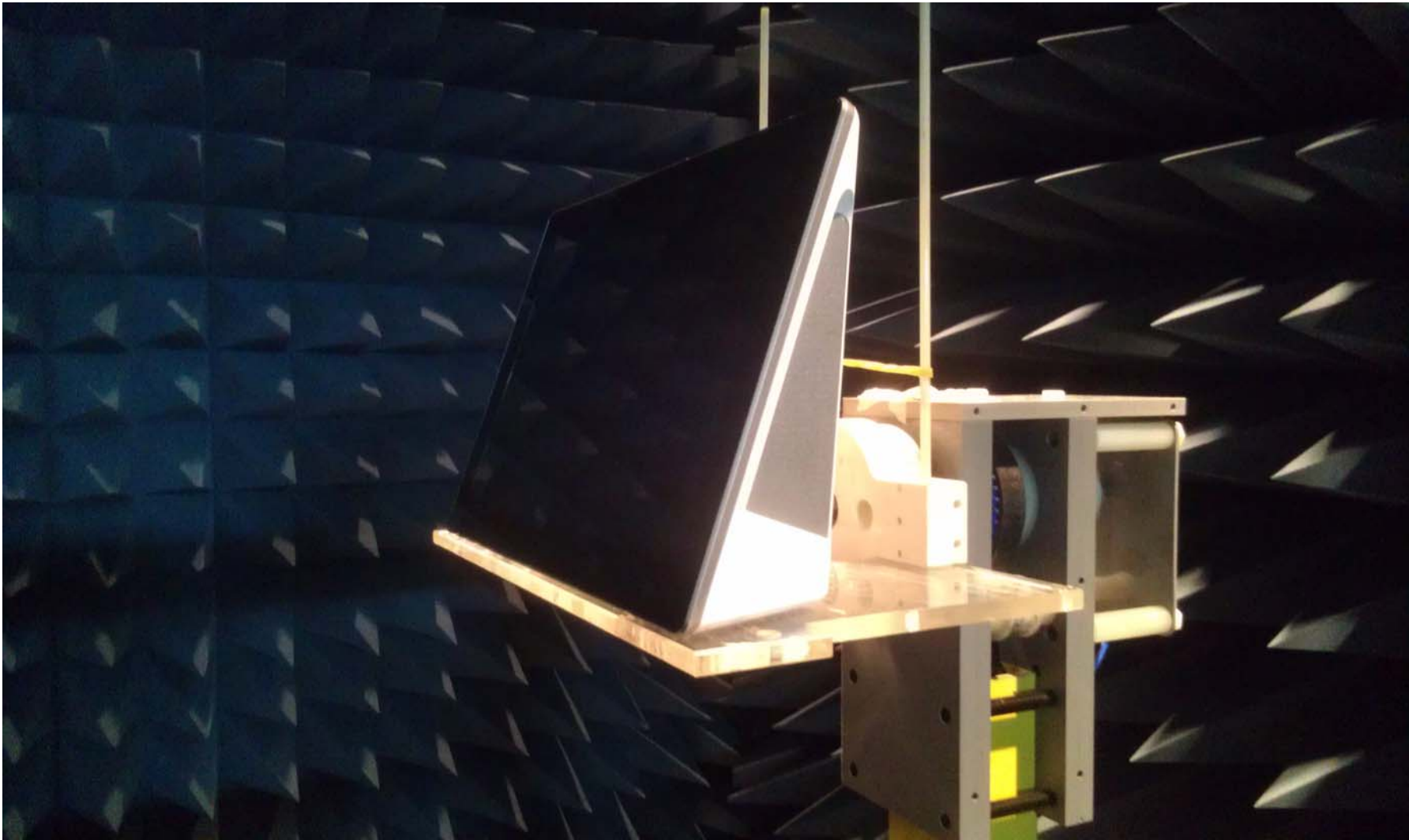
1. Testing set up:



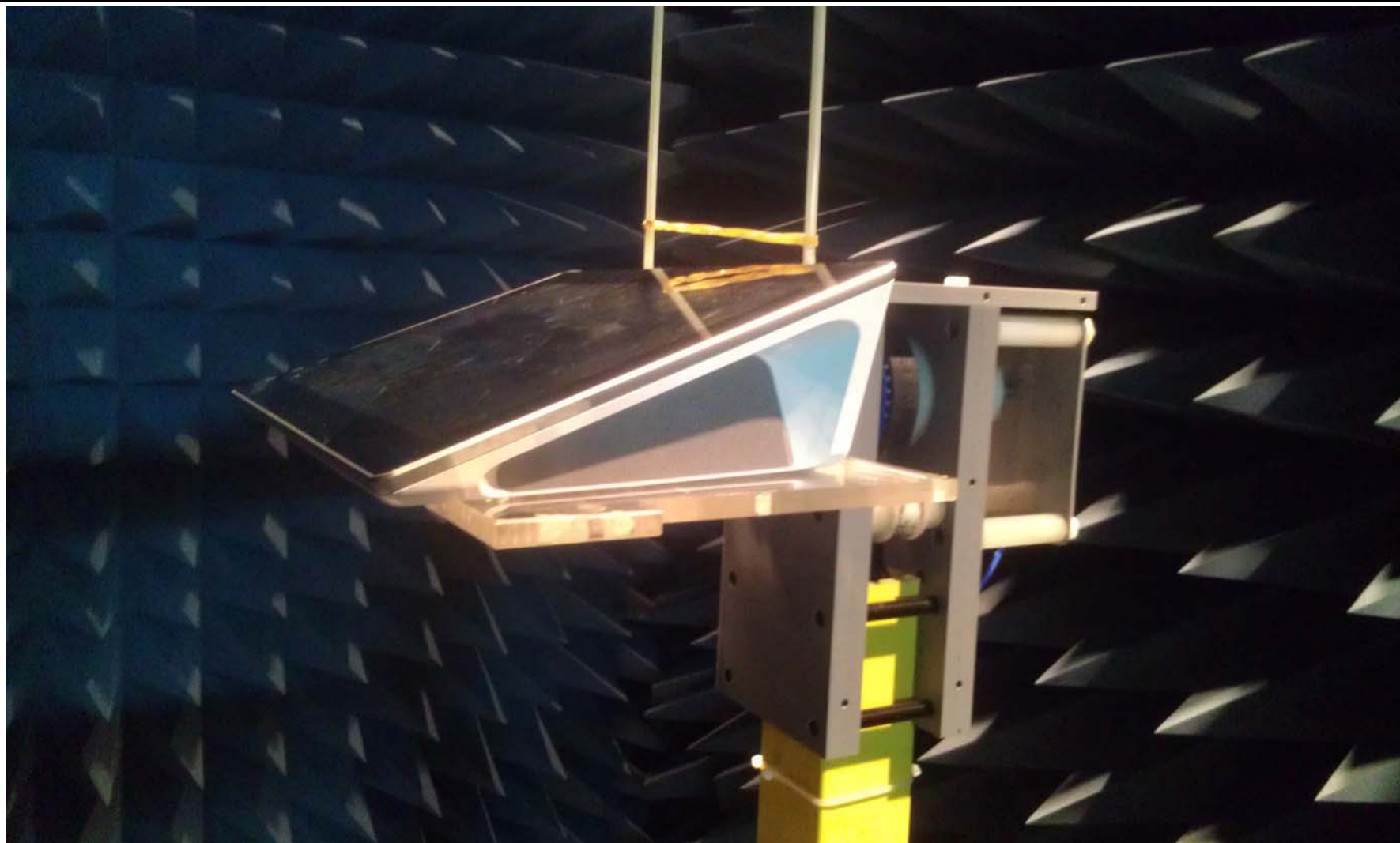
2. Mechanical dimensions



直 立



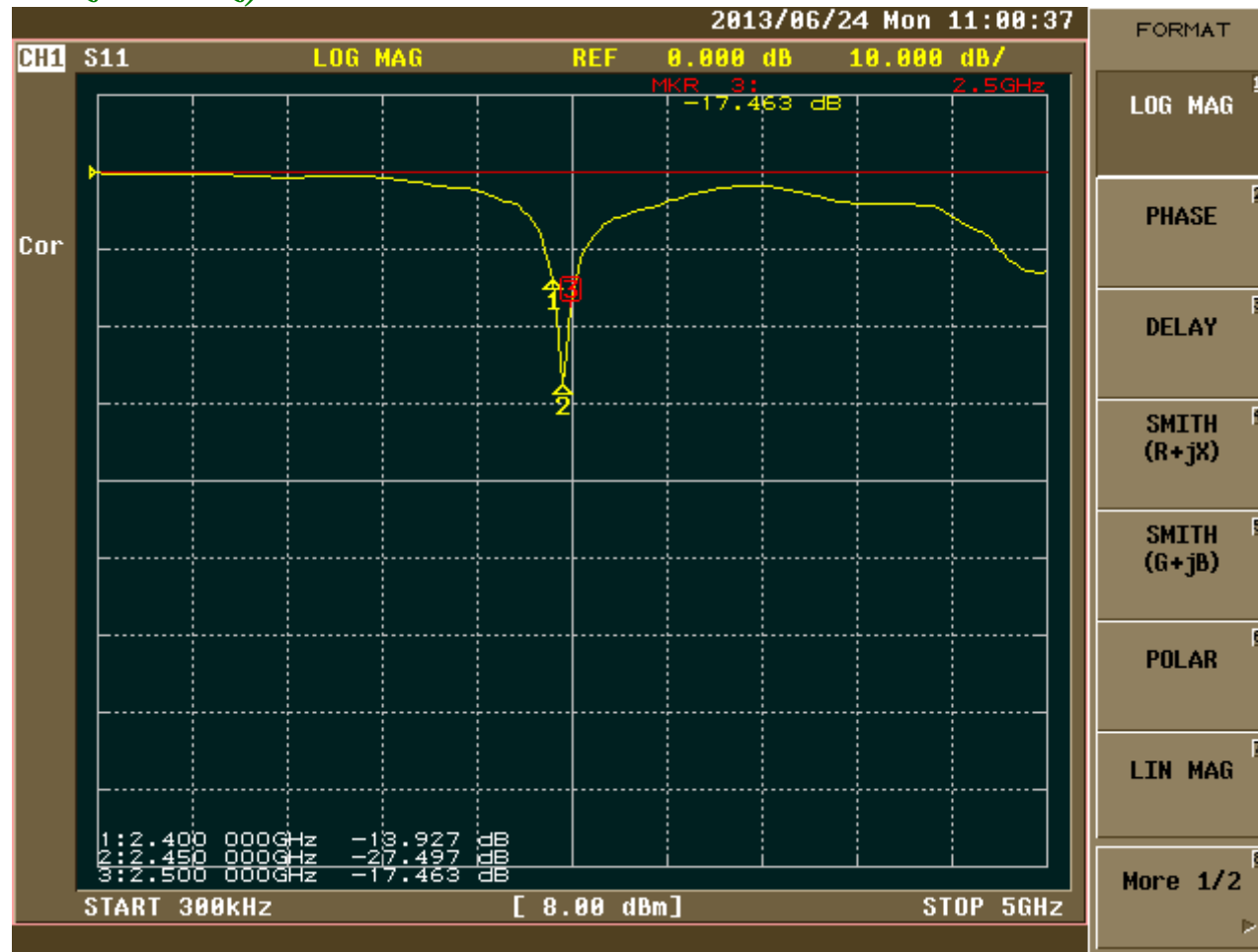
平 躺



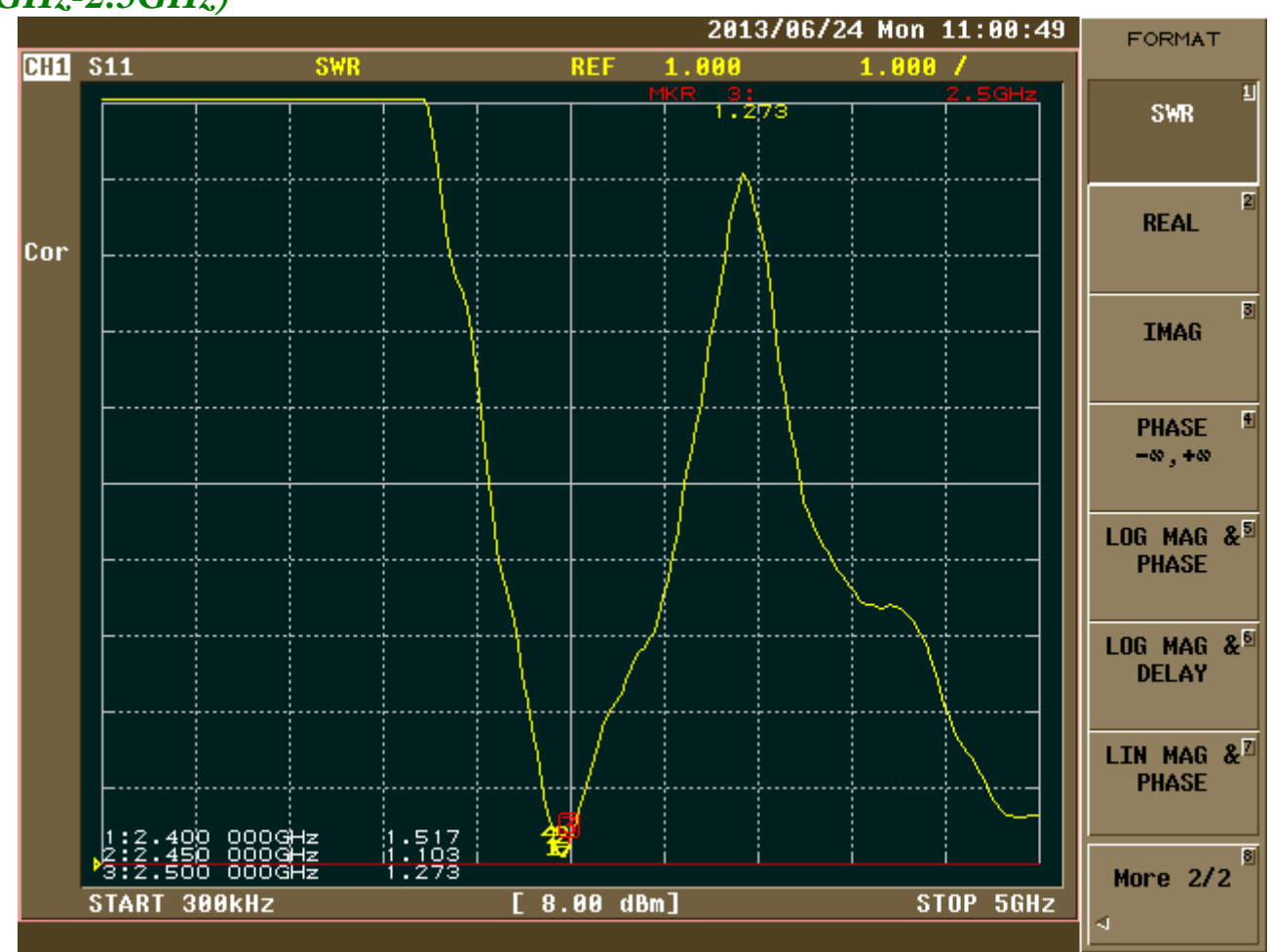
II. Test results

K71_WIFI	<u>Cable diameter :1.13mm</u>
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1. Return Loss (2.4GHz-2.5GHz)



2. VSWR (2.4GHz-2.5GHz)



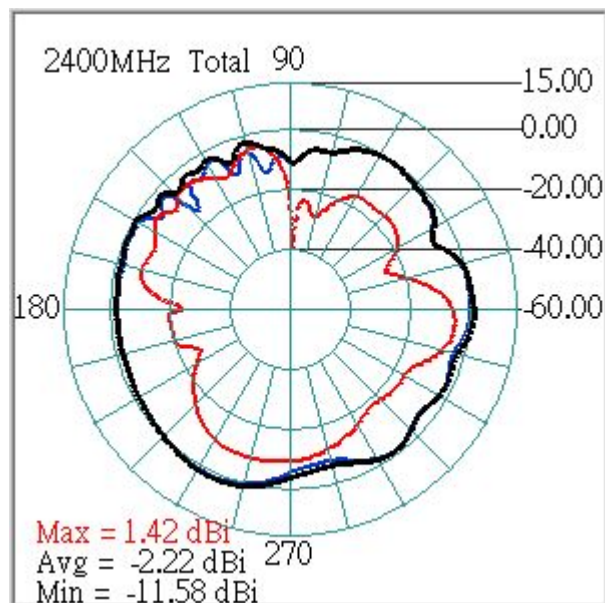
3. Smith Chart (2.4GHz-2.5GHz)




3 Radiation Pattern of XY Plane(Azimuth)

3.1 直立

3.1.1 2400 MHz



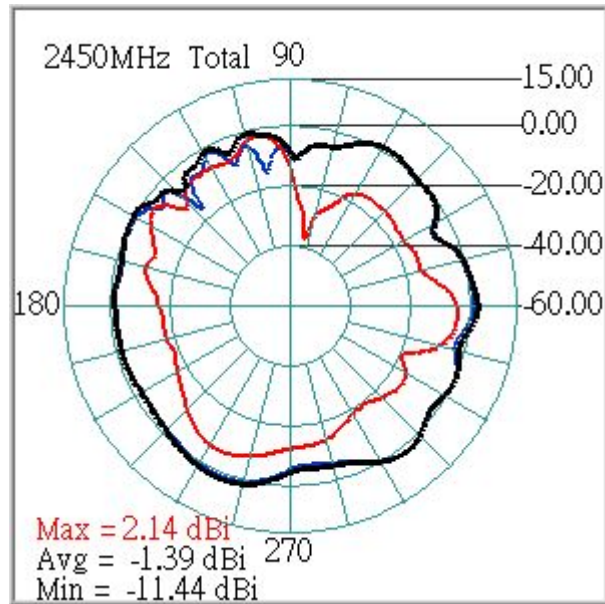
plot color  **Horizontal**

plot color  **Vertical**

plot color  **H+V**

Center Frequency	2400 MHz
Vertical peak Gain (dBi)	1.05
Vertical Average Gain (dBi)	-2.81
Horizontal peak Gain (dBi)	-5.01
Horizontal Average Gain (dBi)	-11.25
Hori+Vert peak Gain (dBi)	1.42
Hori+Vert Average Gain (dBi)	-2.23

3.1.2 2450 MHz



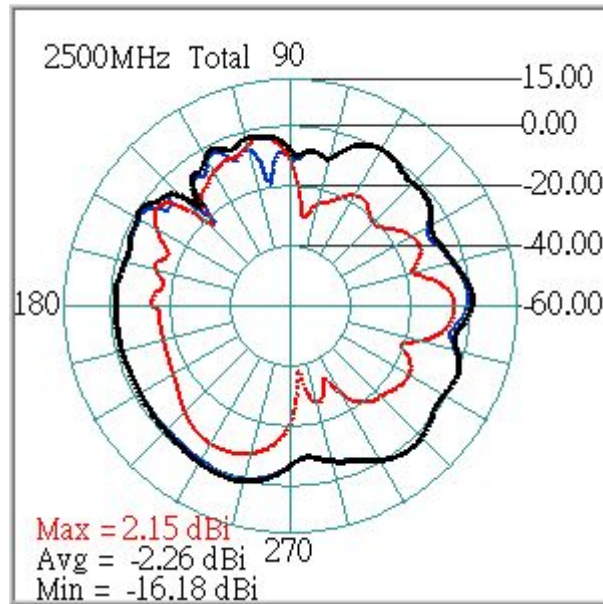
plot color  **Horizontal**

plot color  **Vertical**

plot color  **H+V**

Center Frequency	2450 MHz
Vertical peak Gain (dBi)	1.9
Vertical Average Gain (dBi)	-1.99
Horizontal peak Gain (dBi)	-2.65
Horizontal Average Gain (dBi)	-10.31
Hori+Vert peak Gain (dBi)	2.14
Hori+Vert Average Gain (dBi)	-1.39

3.1.3 2500 MHz



plot color  **Horizontal**

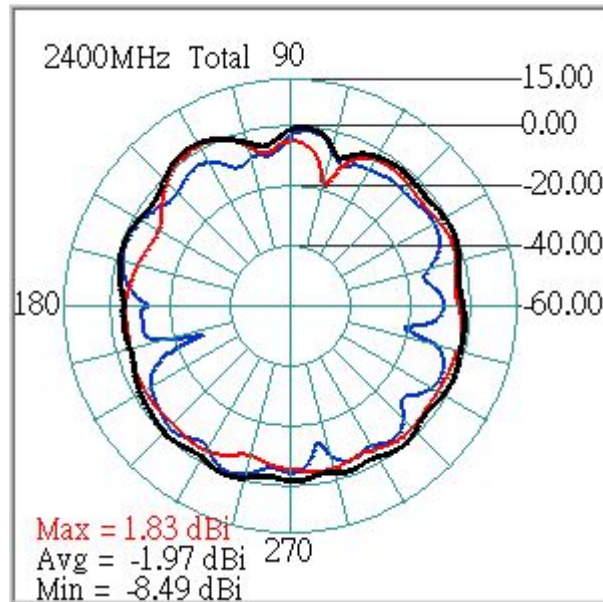
plot color  **Vertical**

plot color  **H+V**

Center Frequency	2500 MHz
Vertical peak Gain (dBi)	2.11
Vertical Average Gain (dBi)	-2.82
Horizontal peak Gain (dBi)	-3.44
Horizontal Average Gain (dBi)	-11.41
Hori+Vert peak Gain (dBi)	2.15
Hori+Vert Average Gain (dBi)	-2.25

3.2 平躺

3.2.1 2400 MHz



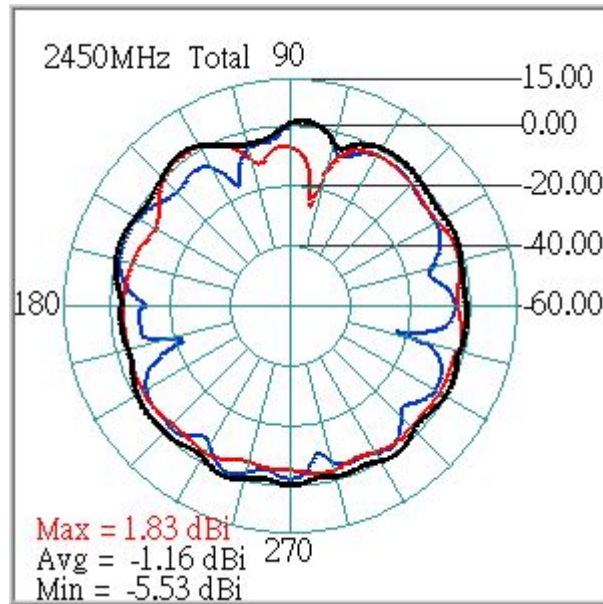
plot color  **Horizontal**


plot color  **Vertical**

plot color  **H+V**

Center Frequency	2400 MHz
Vertical peak Gain (dBi)	-1.19
Vertical Average Gain (dBi)	-5.95
Horizontal peak Gain (dBi)	0.83
Horizontal Average Gain (dBi)	-4.2
Hori+Vert peak Gain (dBi)	1.83
Hori+Vert Average Gain (dBi)	-1.98

3.2.2 2450 MHz



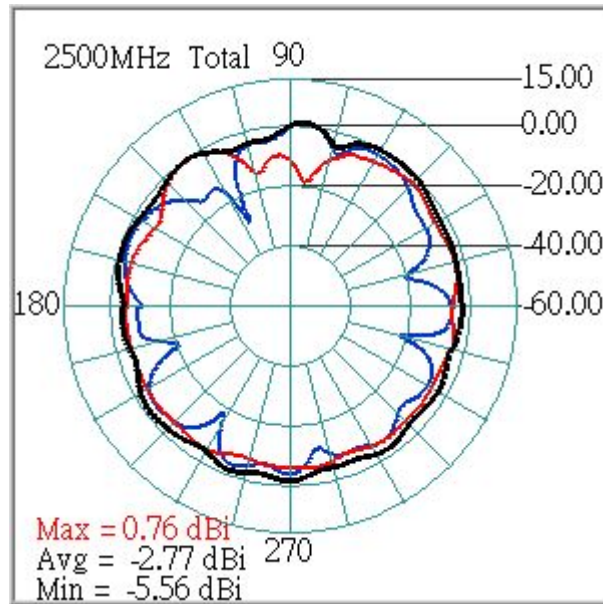
plot color  **Horizontal**

plot color  **Vertical**

plot color  **H+V**

Center Frequency	2450 MHz
Vertical peak Gain (dBi)	1.24
Vertical Average Gain (dBi)	-4.58
Horizontal peak Gain (dBi)	0.96
Horizontal Average Gain (dBi)	-3.81
Hori+Vert peak Gain (dBi)	1.83
Hori+Vert Average Gain (dBi)	-1.17

3.2.3 2500 MHz



plot color  **Horizontal**

plot color  **Vertical**

plot color  **H+V**

Center Frequency	2500 MHz
Vertical peak Gain (dBi)	0.7
Vertical Average Gain (dBi)	-6.16
Horizontal peak Gain (dBi)	-1.06
Horizontal Average Gain (dBi)	-5.44
Hori+Vert peak Gain (dBi)	0.76
Hori+Vert Average Gain (dBi)	-2.77