

2-3. VSWR

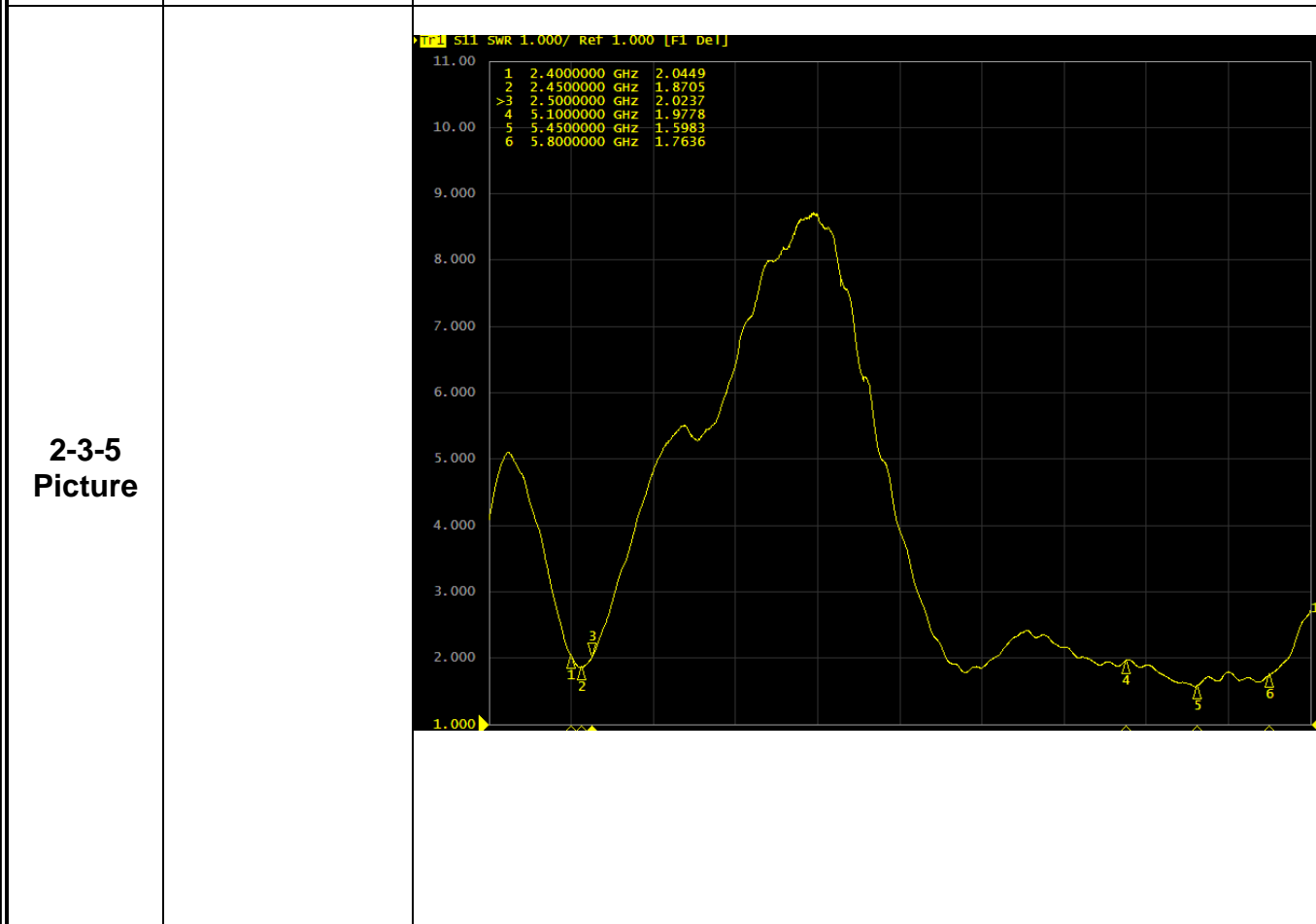
2-3-1.Measurement frequency points and VSWR value

Frequency (MHz)	2400	2500	5100	5800
VSWR	2.04	2.02	1.98	1.76

2-3-2. VSWR

Frequency Band(MHz)	2400	2500	5100	5800
2-3-3. Typical Value:	≤3.5	≤3.5	≤3.5	≤3.5

2-3-4 Measuring Method	<ol style="list-style-type: none"> 1. A 50Ω coaxial cable is connected to the PCB. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm
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2UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±

ANGLES=± HOLEDIA=±

SCALE : UNIT : mm

DRAWN BY:余骏 CHECKED BY: 李志强

DESIGNED BY: 张冲 APPROVED BY: 胡志清



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2-4. Efficiency and Gain

■ 量测仪器: 微波暗室, 网络分析仪, 标准天线.

■ 微波暗室说明:

这是本公司设置在深圳的微波暗室, 本微波暗室是属于一套远场量测系统,暗室的大小为 2.6 米 x1.6 米 x1.6 米, 静区尺寸(Quiet zone)大小为 15 厘米 x15 厘米 x15 厘米。

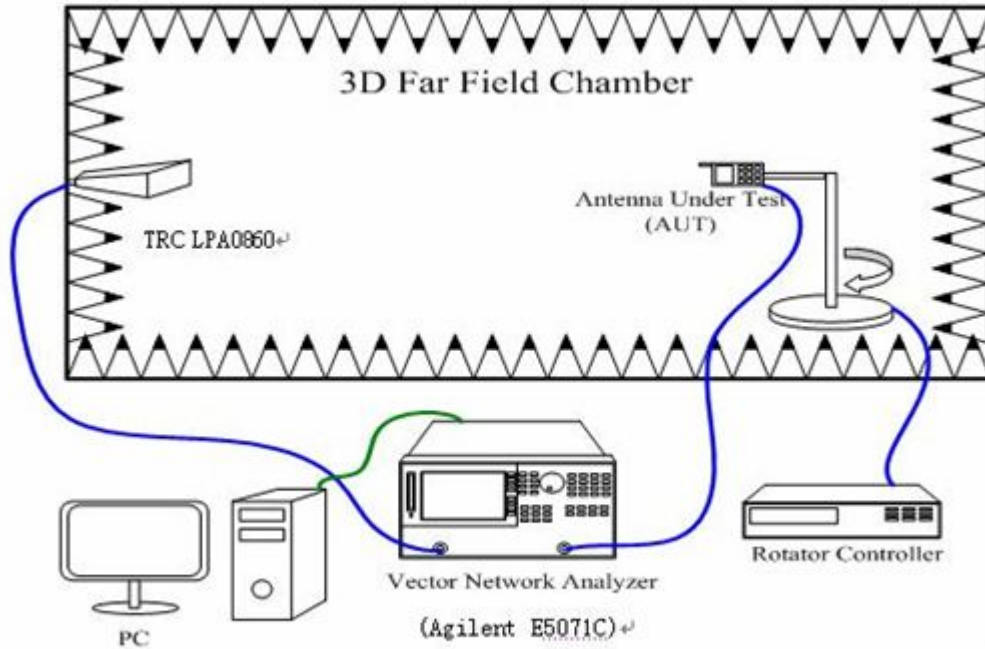


图. 1. 微波暗室内仪器设置图.

图. 1 为微波暗室内的仪器设置及网络分析仪的联接图, 发射天线(本暗室所使用发射天线的型号为 TRC LPA0860 800MHZ-6GHZ)到待测天线(AUT)的距离为 1.35 米, 待测天线放置在旋转平台上,藉由控制转台旋转的角度可对待测天线做概略性及较为准确的量测。

将待测天线放置于旋转台上,并测得其各个平面(ZY 平面及 ZX 平面)的 360 度场强数据。再将待测天线换置成标准偶极天线(本暗室所使用的标准偶极天线型号为 TRC AD series dipole antenna 800MHz~2500MHz)将其 360 度的场强数据测出,以作换算增益标准值,经由式 1 的换算即可获得待测天线的增益值及方向图。

$$G_{AUT} = G_{stand} + P_{AUT} - P_{stand}$$

G_{AUT} : Gain of AUT

G_{stand} : Gain of Standard Gain Antenna

P_{AUT} : Measured Power of AUT

P_{stand} : Measured Power of Standard Gain Antenna

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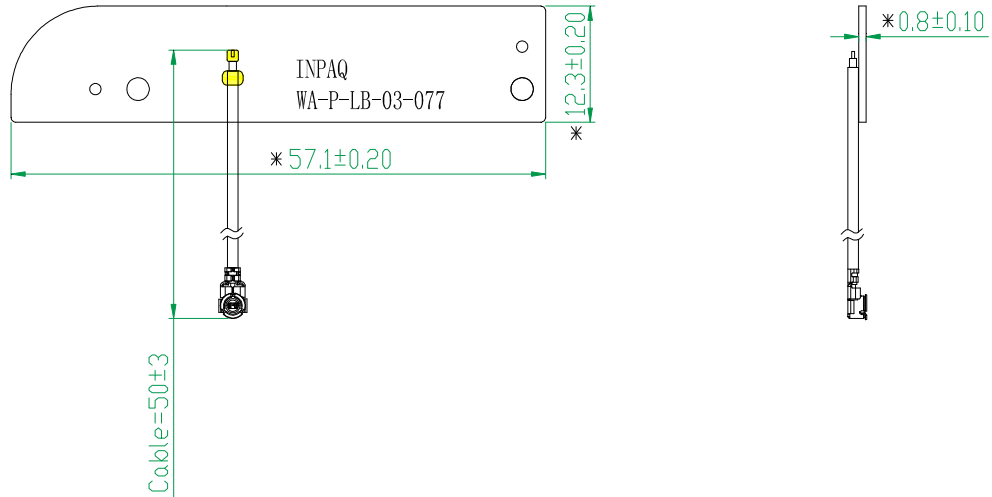
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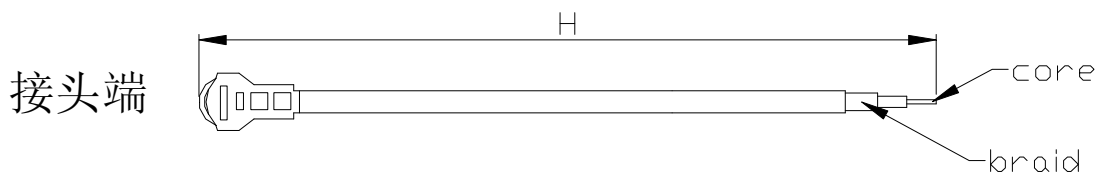
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3-2. Cable Length:



Connector: I-PEX MHF(20278-112R-13); Cable: RF Cable 1.13 (GRAY)

线长(含接头) H: 50±3mm

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