

天線客服報告書

客戶名稱：致伸

撰寫者：S.F You

核准者：Jess Lee

日期：2023/09/27

Advanced Ceramic X Corp.

16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan

TEL:886-3-5987008 FAX:886-3-5987001

E-mail: acx@acxc.com.tw

<http://www.acxc.com.tw>

1.目的:

使用 AT3216-B2R7HAA 量測場型。

2.結論與建議

2.1 天線增益如下表所示:

Gain Table

Unit in dBi	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
@2400MHz	0.9	-3.4	1.4	-3.0	1.7	-3.2	42.0%
@2440MHz	1.0	-3.1	1.9	-2.8	1.9	-2.5	47.0%
@2480MHz	0.2	-3.3	1.8	-2.8	1.4	-2.7	45.0%

2.2 結論

AT3216-B2R7HAA 經場型量測後其天線增益如上表所示。

Antenna type: Chip Antenna

3.場形及各項量測方法、結果:詳見附件 2

2. 場型及各項量測方法、結果

A. 儀器設定

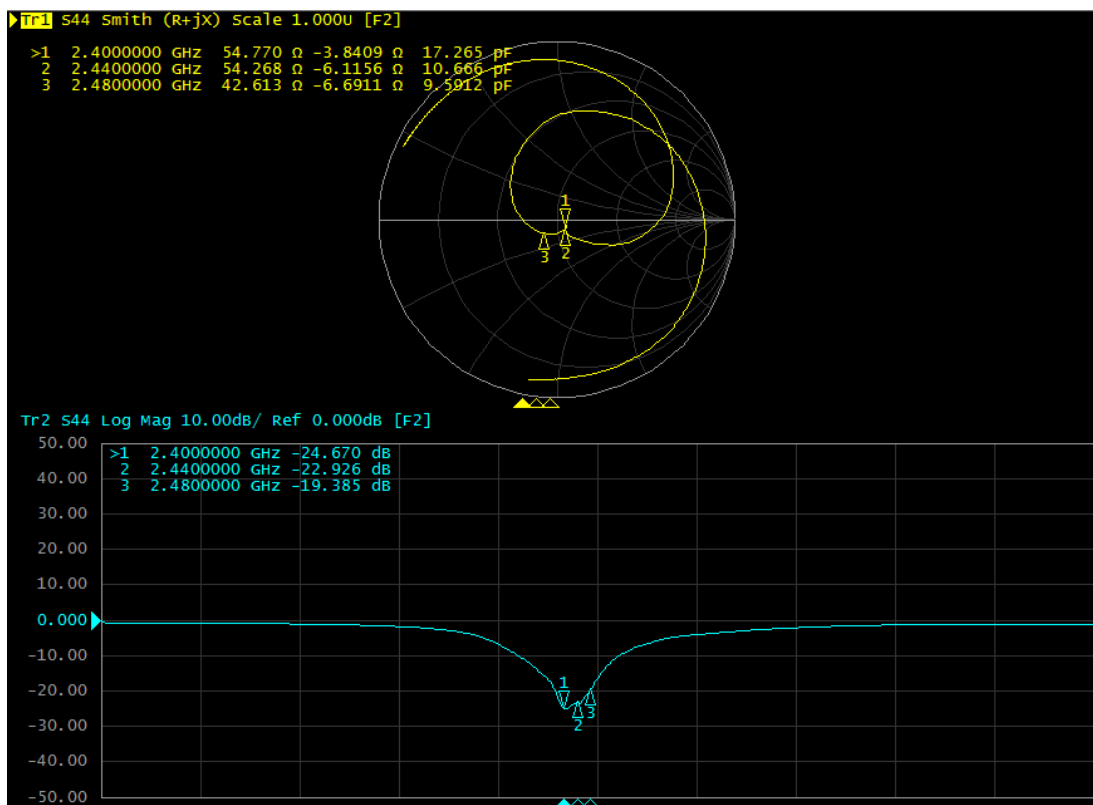
▲返回損耗(Return Loss) / 駐波比(VSWR):

- ◆量測儀器 : vector network analyzer - AG
- ◆校正方法 : open/short/load - Cal. Kit 85052D

▲3D Radiation Pattern :

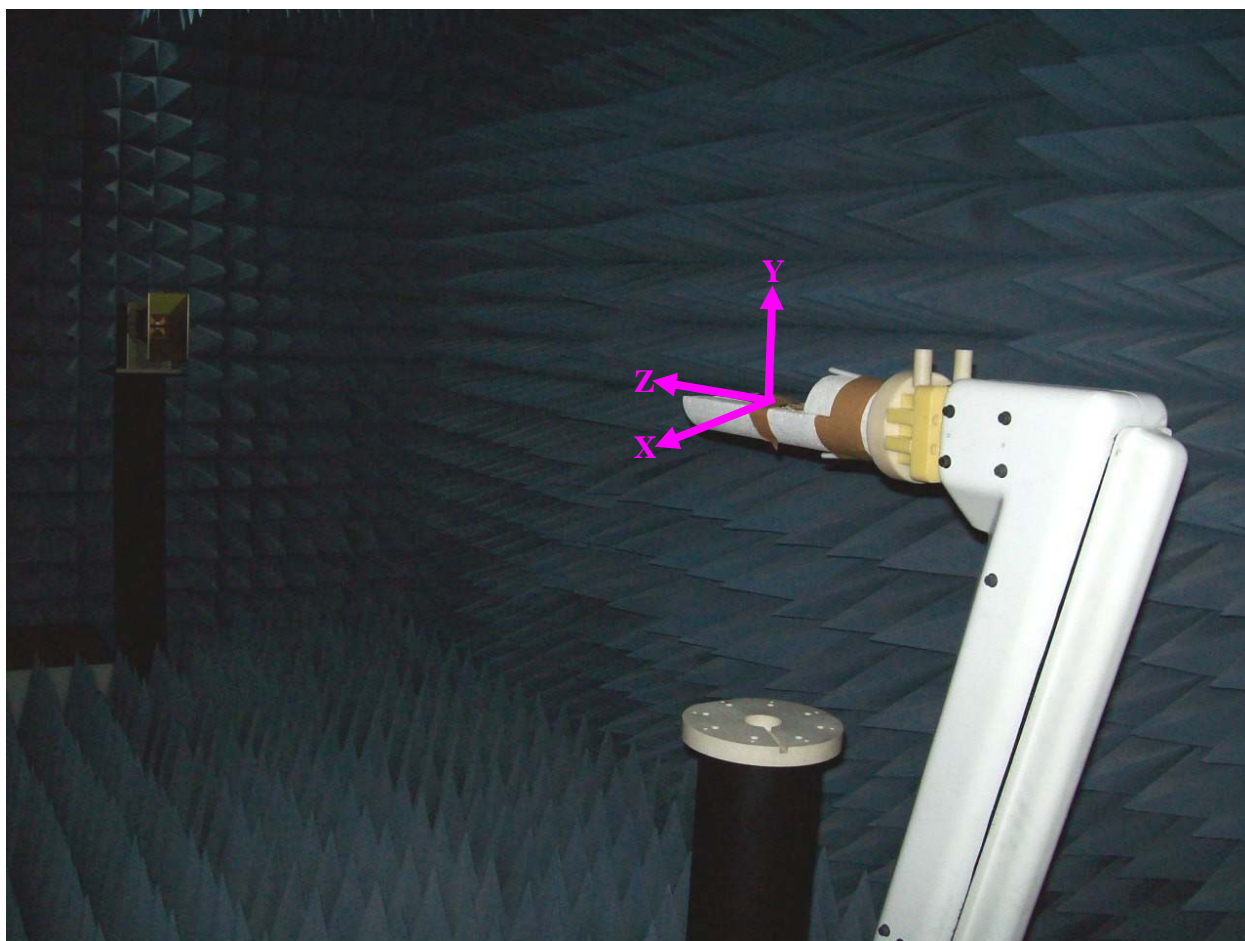
- ◆NSI 800F-10 Far Field antenna measurement system

B. AT3216-B2R7HAA 之 Return Loss 量測值



C. 輻射場型圖

◆量測座標圖

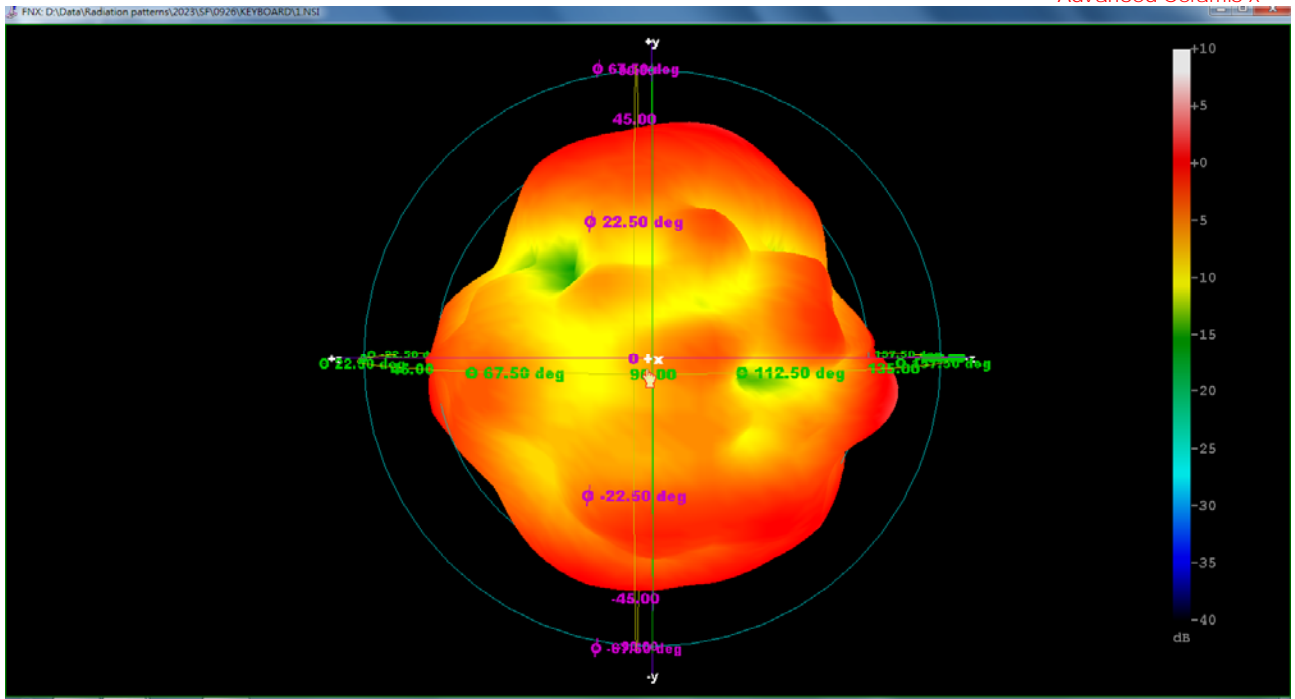


◆各平面定義

XY-plane	Theta=90°
XZ-plane	Phi=0°
YZ-plane	Phi=90°

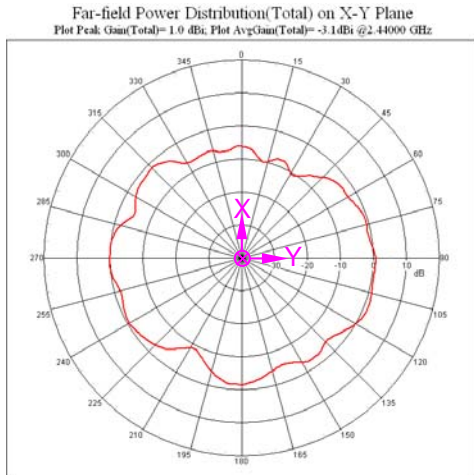
◆3D 輻射場型圖

@2440MHz



@2440MHz 之輻射場型圖

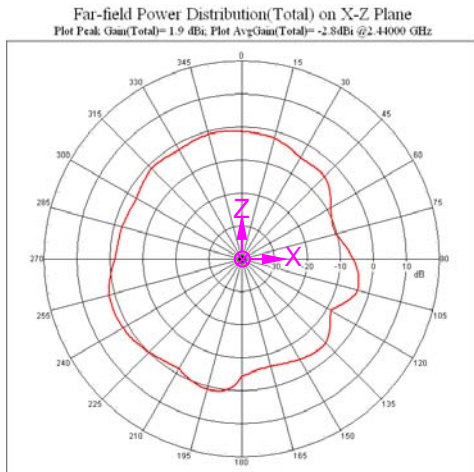
◆XY-plane



Unit : dBi

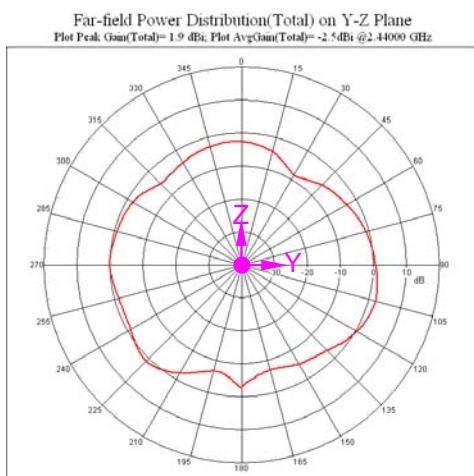
	Peak gain	Avg. gain
XY-plane	1.0	-3.1

◆XZ-plane



	Peak gain	Avg. gain
XZ-plane	1.9	-2.8

◆YZ-plane



	Peak gain	Avg. gain
YZ-plane	1.9	-2.5