

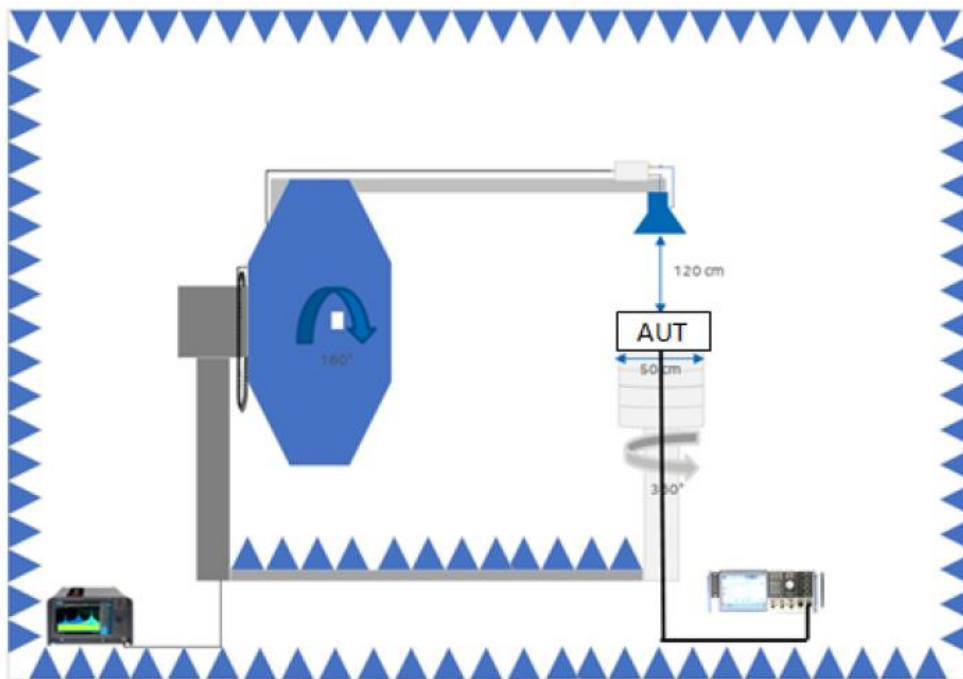
# Antenna Datasheet

## 1. Measurement Method and System

3D spherical measurement using distributed axis system.

## 2. Test Setup & Equipment List

### 2.1. Test Setup



### 2.2. Equipment List Setup

ID#	Device	Type/Model	Serial #	Manufacturer
009-000	Spherical full anechoic chamber	WPTC	P28765-00651-001-PRB	Rohde & Schwarz
009-001	Measurement software [v11.30]	AMS32	100084	Rohde & Schwarz
152-000	Cross-polarized vivaldi antenna	TC-TA85CP	101018	Rohde & Schwarz
345	Switch unit + LNA	TC-ELAMP-D	1533.0350.02	Rohde & Schwarz
335-000	Positioner	NCD	173167577	Maturo
143-000	Spectrum analyser	UXA N90408	US57212210	Keysight
130-000	Signal generator	SMB 100A	178217	Rohde & Schwarz

### 3. Antenna Specification

#### 3.1. Antenna information

Manufacturer	Type	Antenna Part number	Frequency range (MHz)	Peak Gain (dBi)
Intel WRF Lab	Monopole	ANT24-M865-00	5925 - 6425	7.75
			6425 - 6525	6.84
			6525 - 6875	7.45
			6875 - 7125	7.75

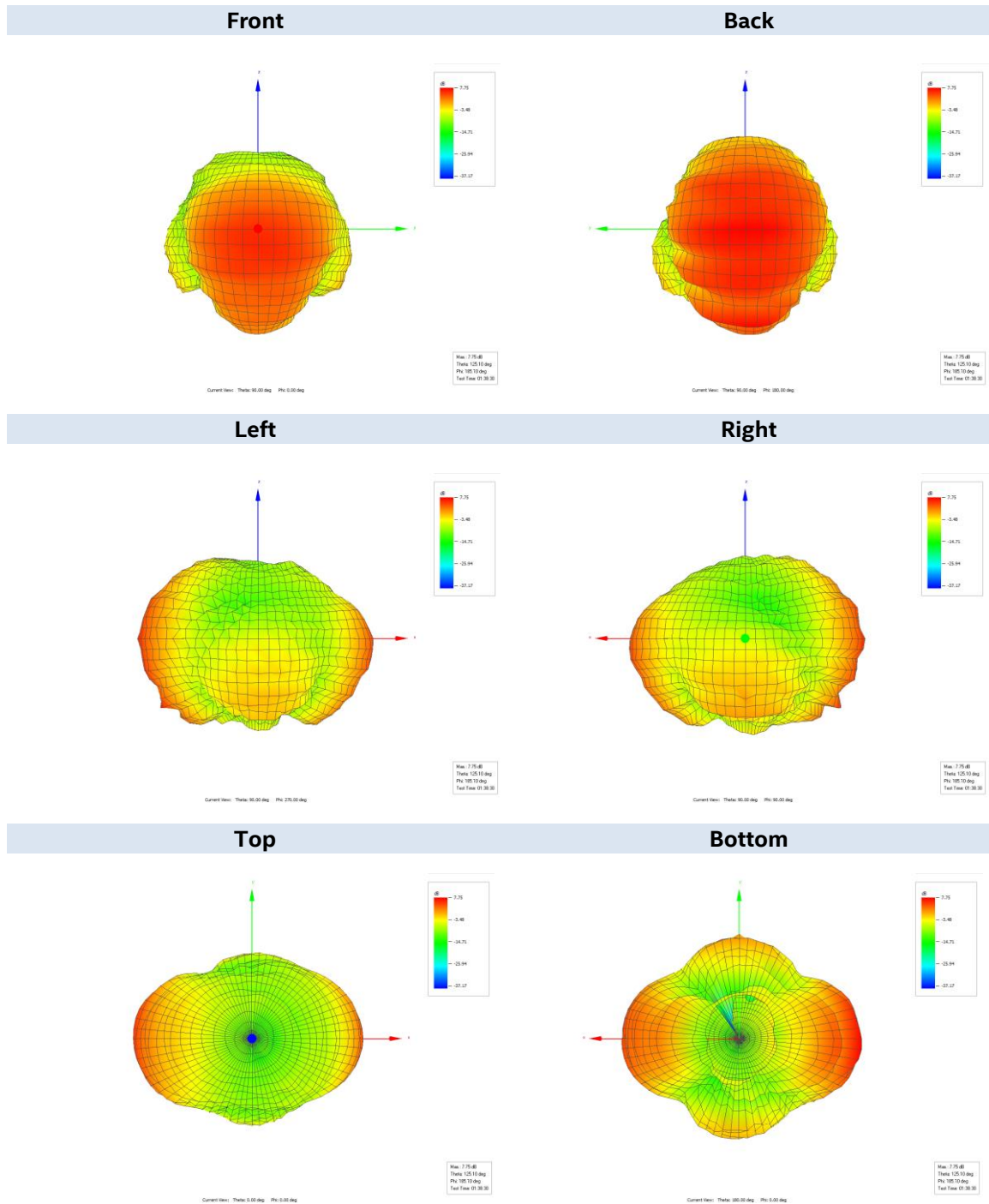
#### 3.2. Antenna Peak Gain Table

Frequency (MHz)	Peak Gain
	(dBi)
5925	7.75
6525	6.84
6875	7.45
7125	7.75

## 4. Antenna Radiation Patterns

### 4.1. Pattern @ 5925 MHz

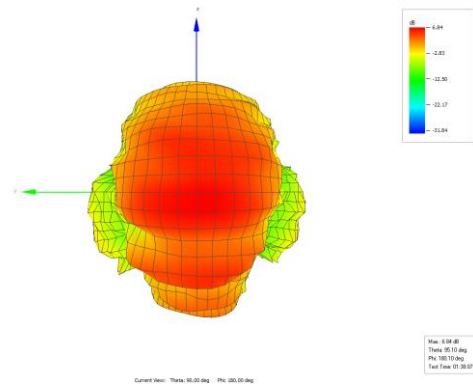
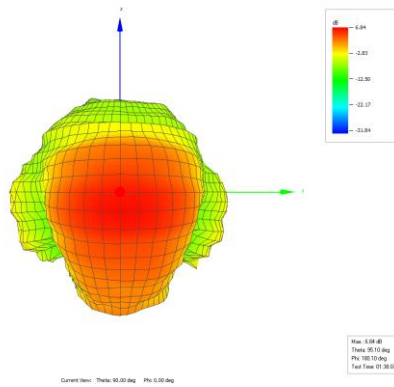
Frequency (MHz)	Peak Gain
	(dBi)
5925	7.75



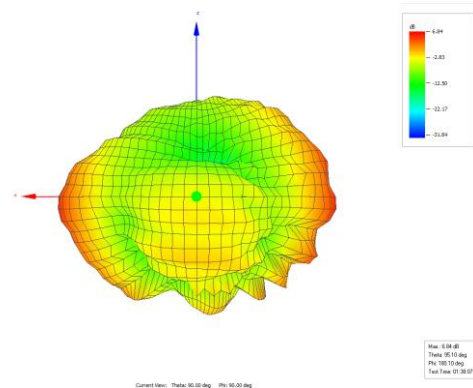
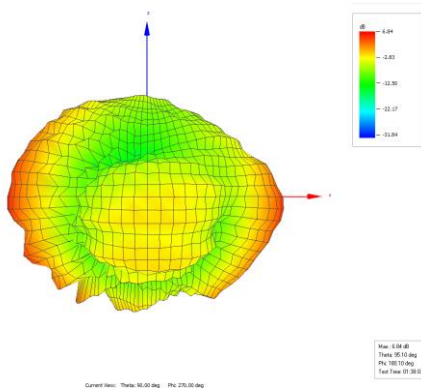
### 4.2. Pattern @ 6525 MHz

Frequency (MHz)	Peak Gain
	(dBi)
6525	6.84

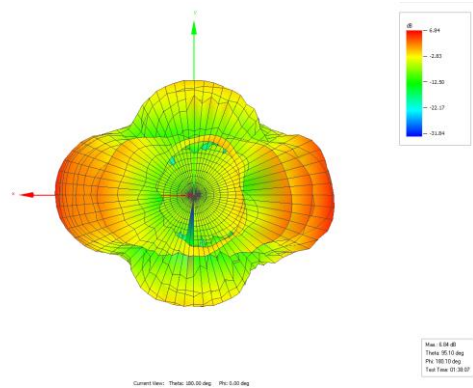
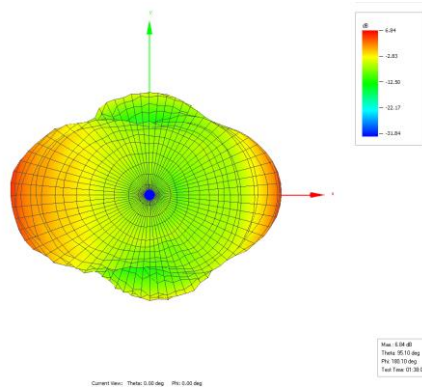
**Front** **Back**



**Left** **Right**



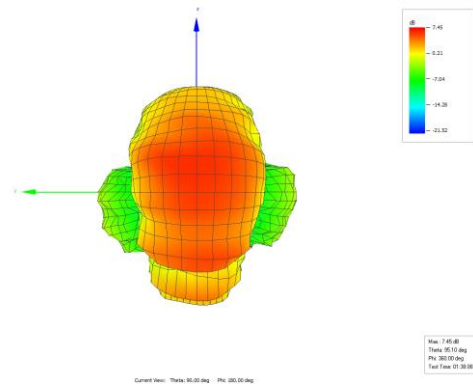
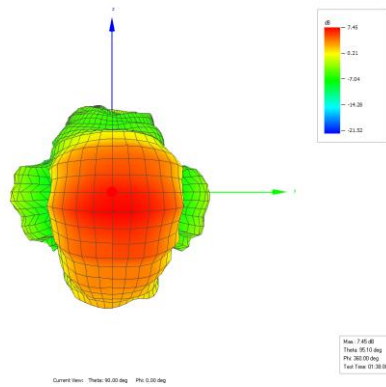
**Top** **Bottom**



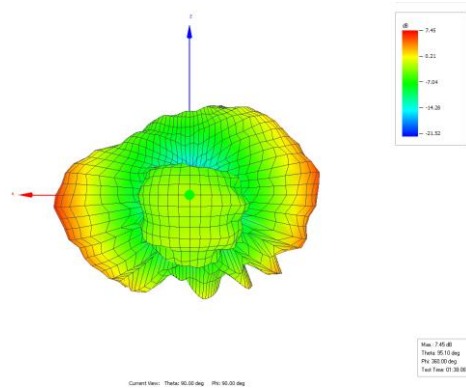
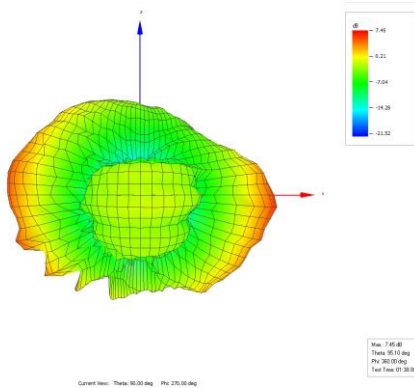
### 4.3. Pattern @ 6875 MHz

Frequency (MHz)	Peak Gain
	(dBi)
6875	7.45

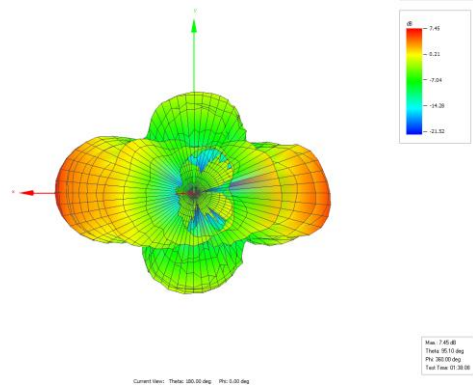
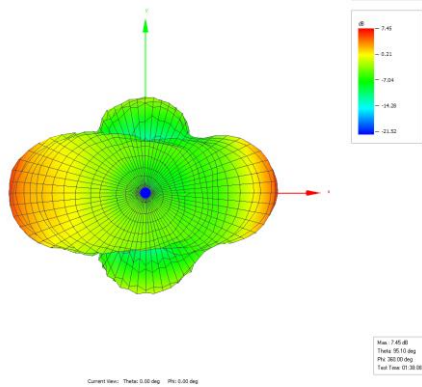
**Front** **Back**



**Left** **Right**



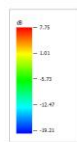
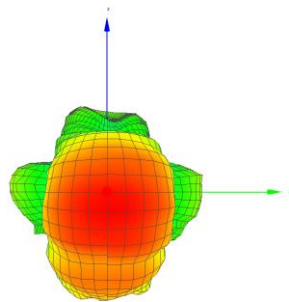
**Top** **Bottom**



### 4.4. Pattern @ 7125 MHz

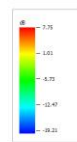
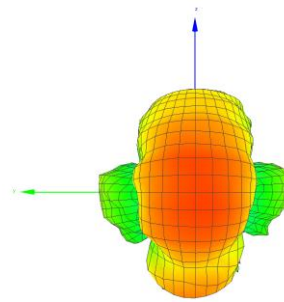
Frequency (MHz)	Peak Gain
	(dBi)
7125	7.75

**Front** **Back**



Max: 7.75 dBi  
 Theta: 95.10 deg  
 Phi: 0.00 deg  
 Test Date: 01/28/08

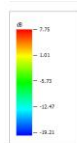
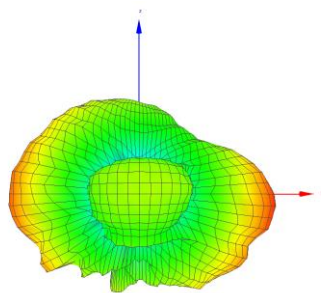
Current View: Theta: 95.00 deg Phi: 0.00 deg



Max: 7.75 dBi  
 Theta: 95.10 deg  
 Phi: 0.00 deg  
 Test Date: 01/28/08

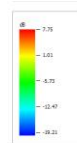
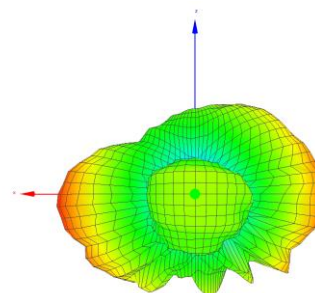
Current View: Theta: 95.00 deg Phi: 0.00 deg

**Left** **Right**



Max: 7.75 dBi  
 Theta: 95.10 deg  
 Phi: 0.00 deg  
 Test Date: 01/28/08

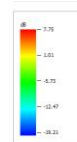
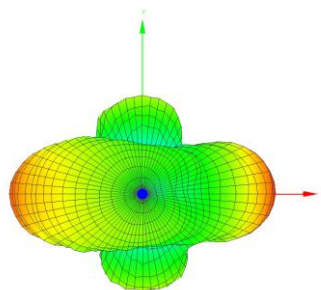
Current View: Theta: 95.00 deg Phi: 270.00 deg



Max: 7.75 dBi  
 Theta: 95.10 deg  
 Phi: 0.00 deg  
 Test Date: 01/28/08

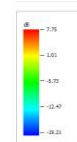
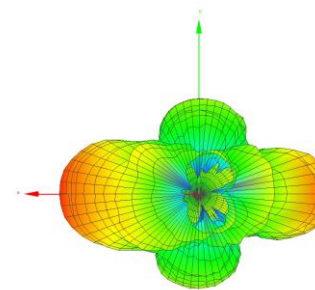
Current View: Theta: 95.00 deg Phi: 90.00 deg

**Top** **Bottom**



Max: 7.75 dBi  
 Theta: 95.10 deg  
 Phi: 0.00 deg  
 Test Date: 01/28/08

Current View: Theta: 0.00 deg Phi: 0.00 deg



Max: 7.75 dBi  
 Theta: 95.10 deg  
 Phi: 0.00 deg  
 Test Date: 01/28/08

Current View: Theta: 180.00 deg Phi: 0.00 deg