



1055 Tierra Del Rey
Chula Vista, CA91910

Antenna Report
Peeble 1

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DATE: 4/4/17

REVISIONS

REV	DESCRIPTION	CHECK	ENG	DATE
1.0	release			

REMARKS:



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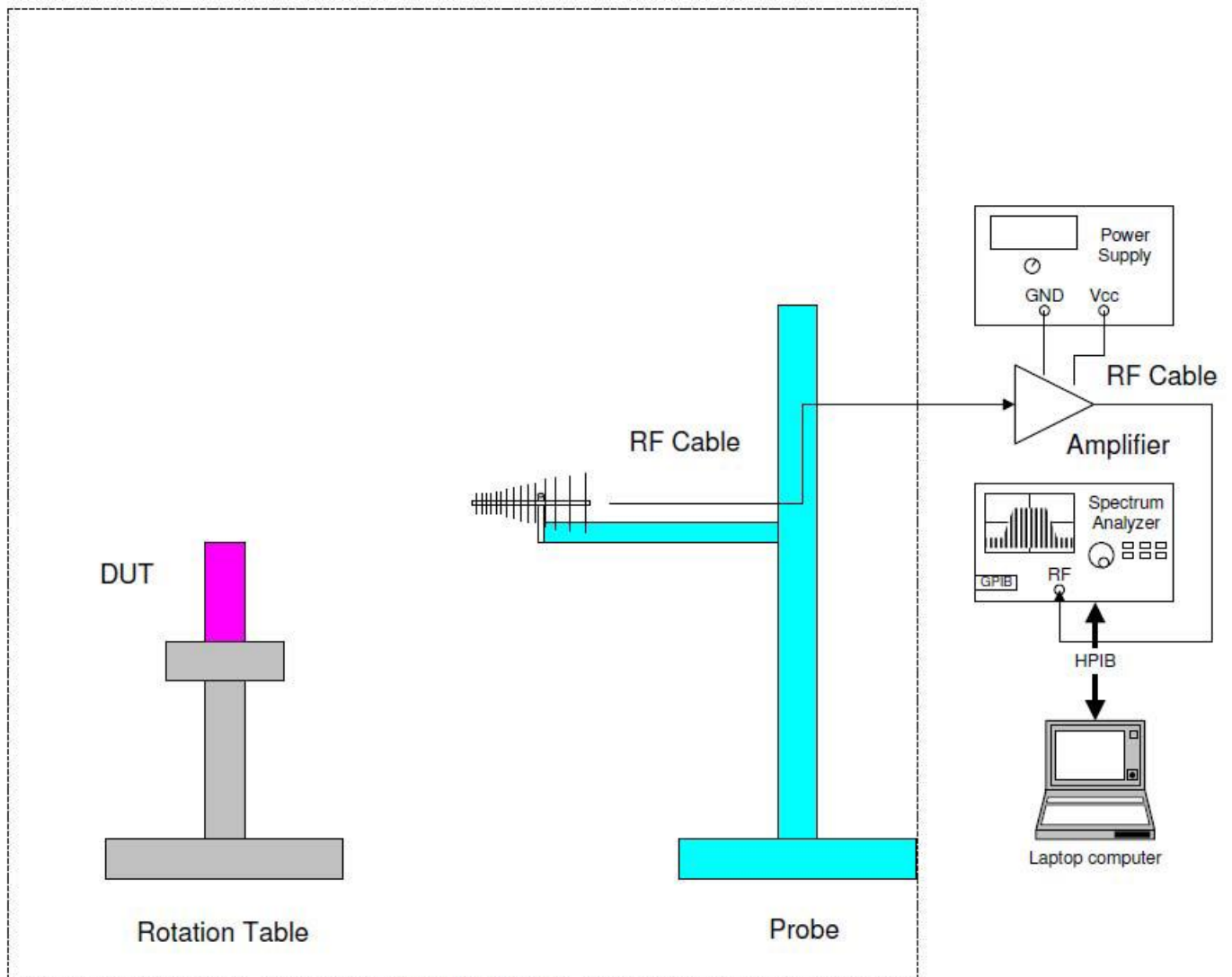
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1 Purpose

The purpose for this document is to document the specifications of the internal antenna. The antenna will be an internal antenna in the Peeble 1. This antenna will not be accessible by the user.

2 Block diagram of Measurement

The following is the block diagram is the measurement of max gain of antenna. Before measuring the gain the input to the antenna was measured for the three channels.



Block Diagram



3 Specification

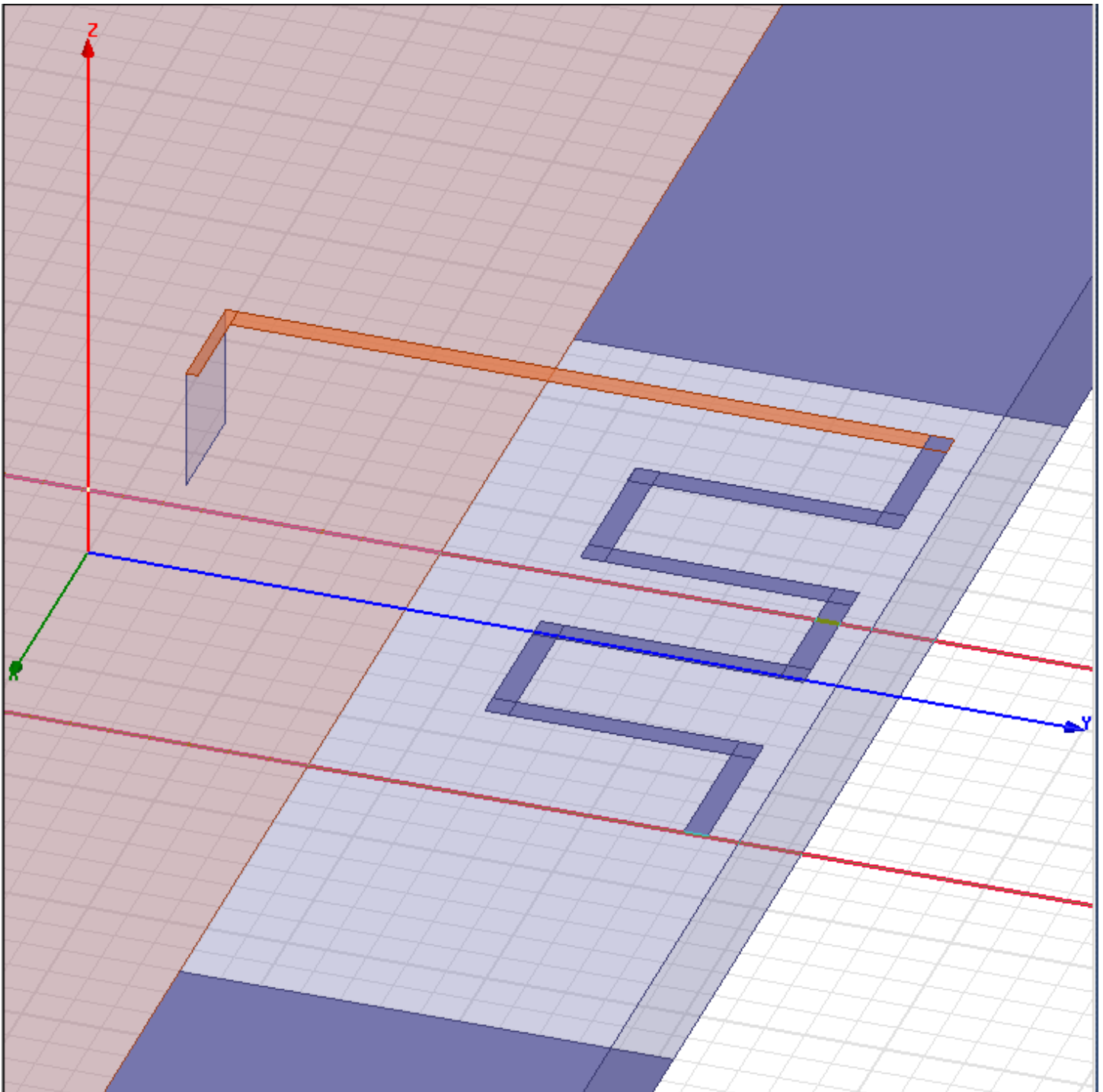
The following are the antenna specifications:

Parameter	Typical	Units
Frequency of operation	2.4 to 2.48	GHz
Gain Low (2402MHz)	-2	dBi
Gain Mid (2441 MHz)	-2	dBi
Gain High (2482GHz)	-2	dBi
Type	Meandering	
Internal/External	Internal	User can not access

The antenna is a printed antenna. Customer does not have access to antenna.

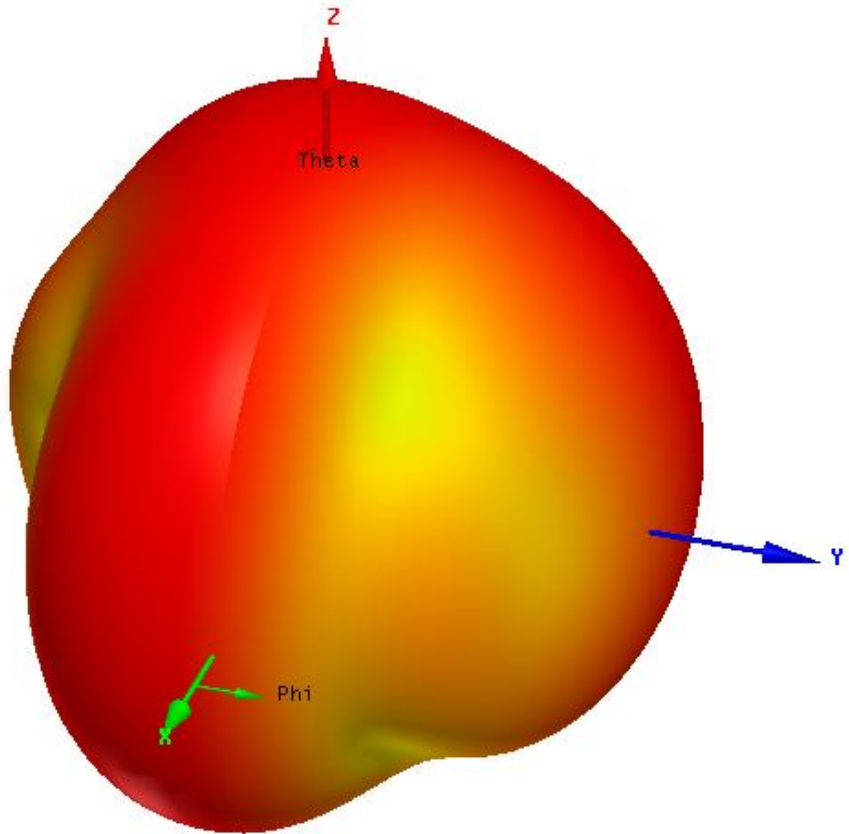
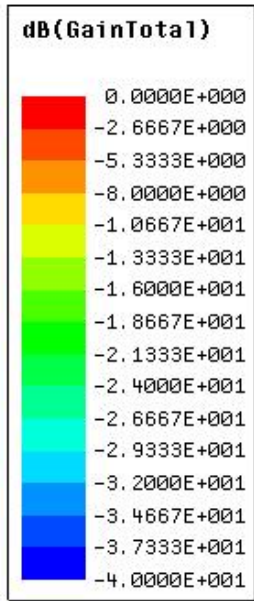
4 Antenna Pattern

This section presents the antenna pattern of the remote. The first step is to make reference to the coordinates with respect to the board:



Please notice the location of the xyz as shown in the above drawing

The following is the 3d pattern of the antenna. This was done for a frequency of 2.45GHz. Please use the above picture for the reference.



The following is the return loss for the antenna:

Notice antenna is matched at frequency of interest.



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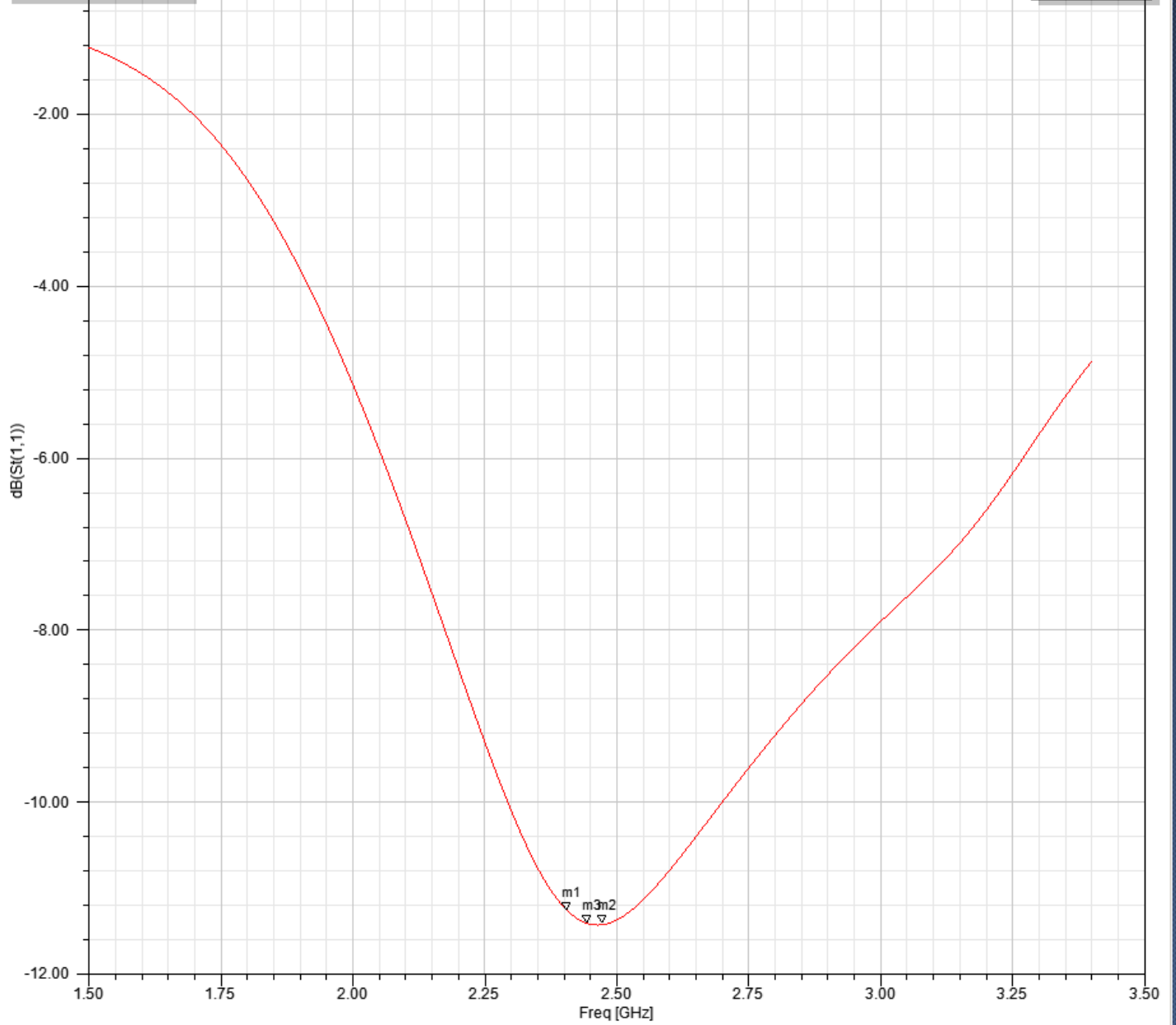
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Name	X	Y
m1	2.4070	-11.2607
m2	2.4739	-11.4179
m3	2.4452	-11.4069

Return Loss

PIFA_Antenna_ADKv1

Curve Info
— dB(S1(1,1))
Setup1 : Sweep1





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