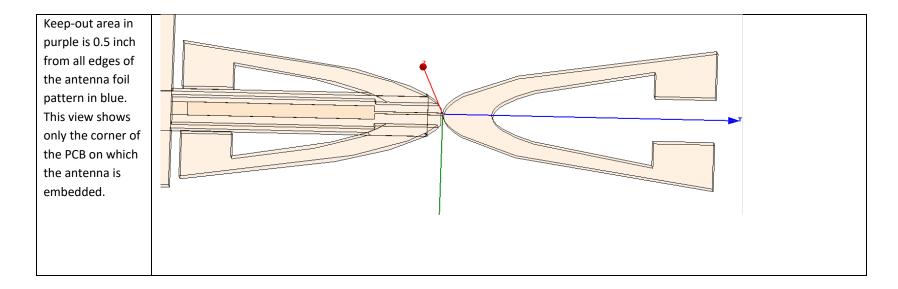
Embedded Element Specification

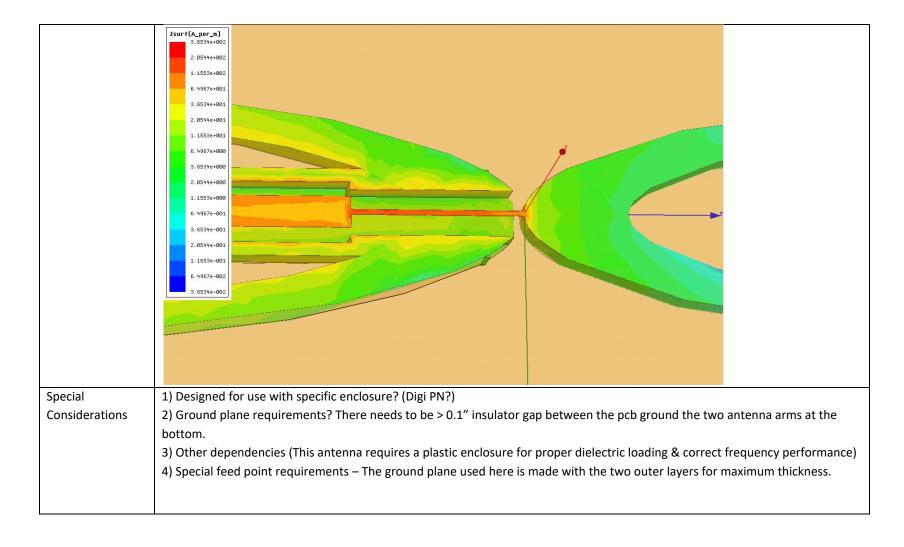
Part Number	31000003-01		
Revision	Α		
Element Type	2.4 & 5.5 GHz balanced & compressed bow tie		
	Antennae		
Description	2.4 & 5.5 GHz diversity Antennae		
Frequency	uency 2400-2483 MHz & 5.15-5.85 GHz		
Date	9/29/2011		
Designer	Robert Ridgeway		

integration

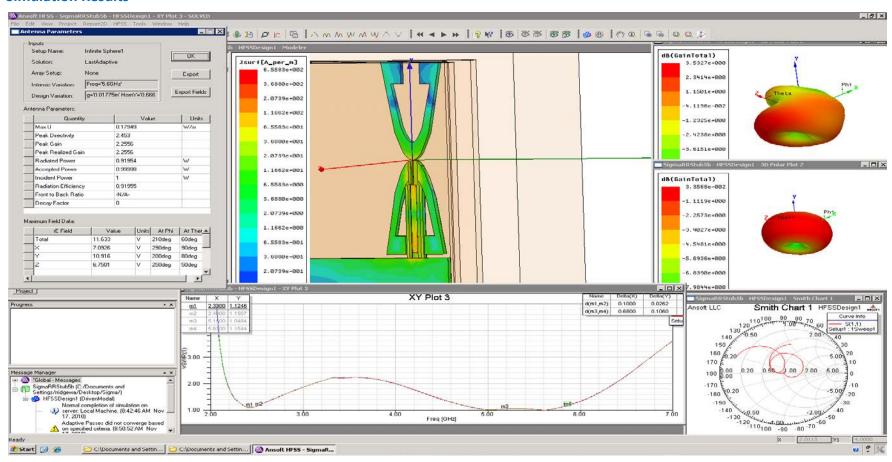
РСВ	Material: ISOLA370HR, Dk = 3.7 @ 2.4GHz 38 mil thick dielectric yields 40 thick PCB with copper laminates. Copper: 1 oz all layers
Enclosure	Model assumes ABS plastic (Dk = 3. @ 2.4GHz) surface 0.5" from antenna on all sides.







Simulation Results



Measured S11

Measured S11 Magnitude in Smith chart format all are with plastic cover.

3D radiation Pattern (and Gain) is similar to doughnut with maximum gain on the horizon.

2d-radiation patterns (E-field)

Change Log

Revision	Date	Author	Sections	Comment
Α	9/29/2011	Robert Ridgeway	All	Initial Document