



# Antenna Test Report

## FAP-112D V0.3

2014.10.20

By Harry



Senao Networks, Inc.



# Executive Summary

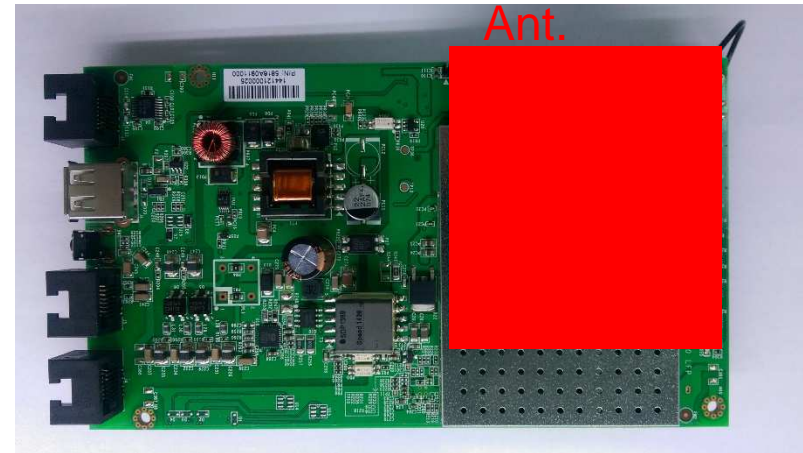
- **Purpose**

Antenna verification for **FAP-112D** device, result as following.

- **Agenda**

- Antenna Placement
- Test Result : VSWR
- Test Result : Antenna Gain Pattern

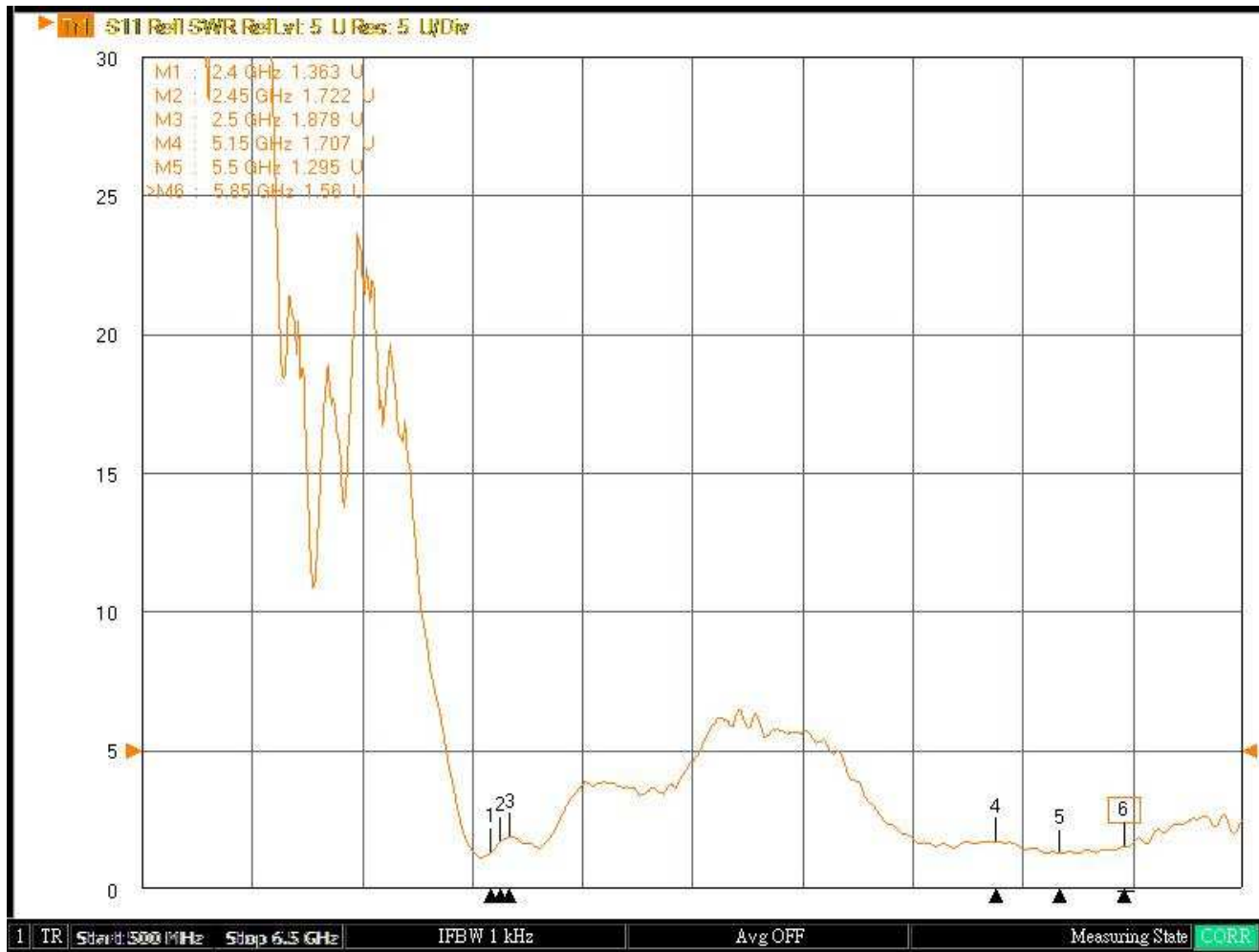
# Antenna Placement and Specification



Frequency (MHz)	2400 - 2500	5100 - 5850
Peak Gain (dBi)	6.5	7.5
VSWR	2:1	
Dimension (mm)	54x54.4x0.6	
Connector	IPEX	
Cable Phi (mm)	1.37	
Cable Length (mm)	130	



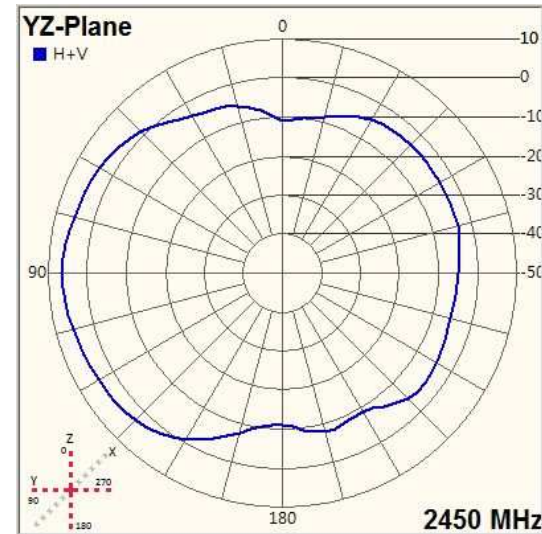
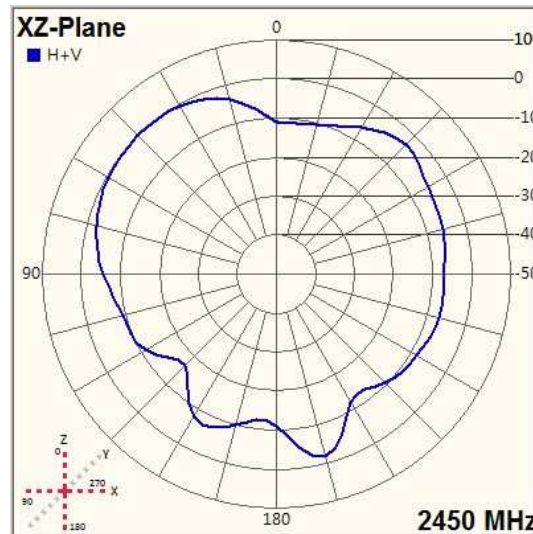
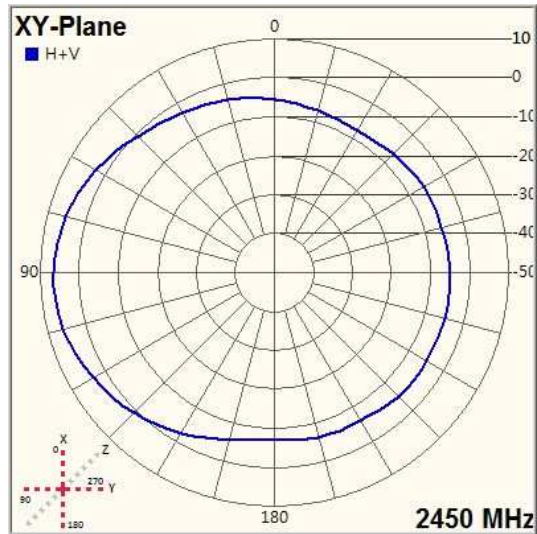
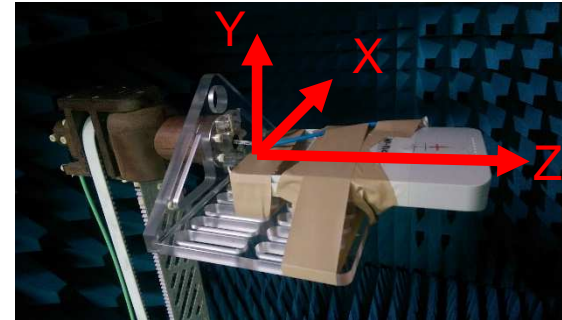
# VSWR



Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	1.36	1.72	1.87	1.70	1.29	1.59



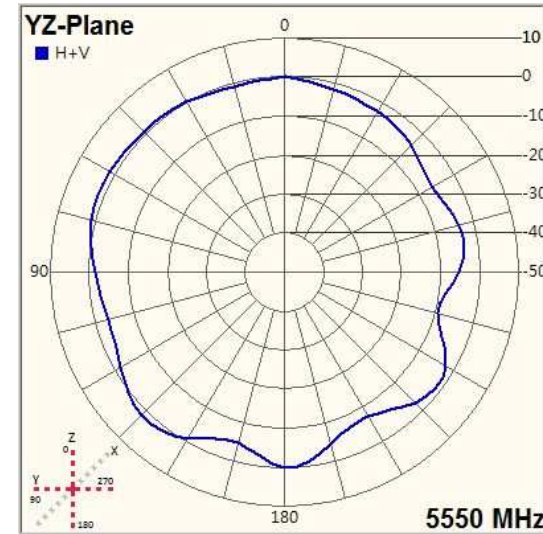
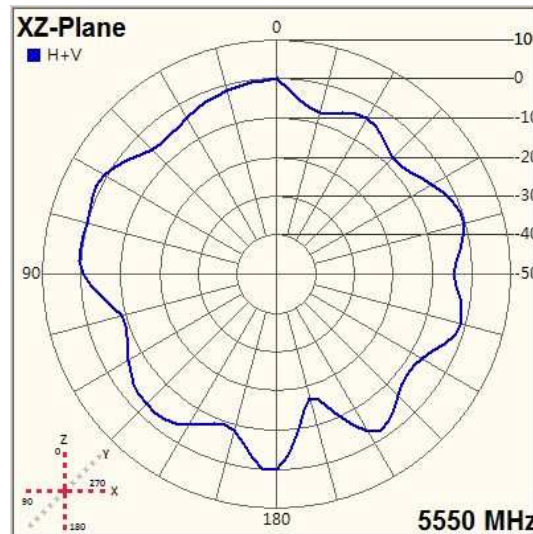
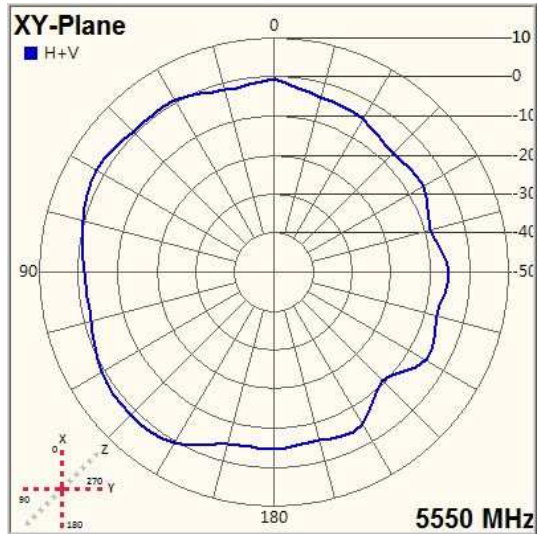
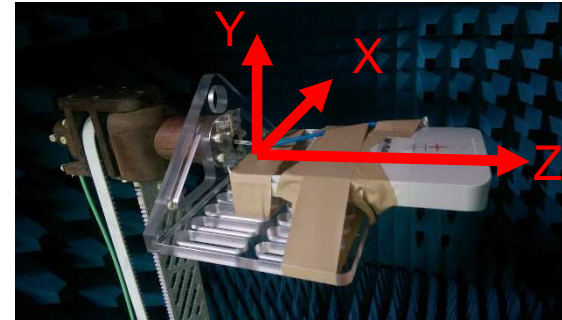
# Ant. 2D Gain Pattern @ 2.45GHz



Frequency (MHz)	2400	2450	2500
Efficiency (dB)	-1.59	-1.58	-1.74
Efficiency (%)	69.30	69.43	66.95
Gain (dBi)	6.51	6.56	6.55



# Ant. 2D Gain Pattern @ 5.55GHz



Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency (dB)	-1.57	-1.46	-1.10	-0.81	-1.37	-1.60	-2.02	-1.74
Efficiency (%)	69.62	71.54	77.55	83.05	73.03	69.25	62.82	67.07
Gain (dBi)	7.35	7.25	7.29	7.57	7.03	6.91	6.26	5.91