

Test report is for reference only.

TEST REPORT
for
OBS-520



Technical Specification

Polarization	RHCP
Frequency Range(GHz)	0.5-2
Gain(dBic)	-3.6 @0.5GHz
	5 @1.0GHz
	-4.8@1.1GHz
	6.1 @2GHz
Axial Ratio(dB)	6 max
VSWR	2:1 Typ.
Beamwidth(°)	120-55
Connector	N-Female
Output Impedance(Ω)	50
Size(mm)	$\Phi 226 \times 230$

Test Instruments

- HP8720D
- AV14812
- AV4033

Test Results

1. Gain

Frequency(GHz)	0.5	0.8	1.0	1.2	1.5	1.8	2.0
Gain(dBic)	-3.6	3.5	5	5.2	5.7	2.5	6.1

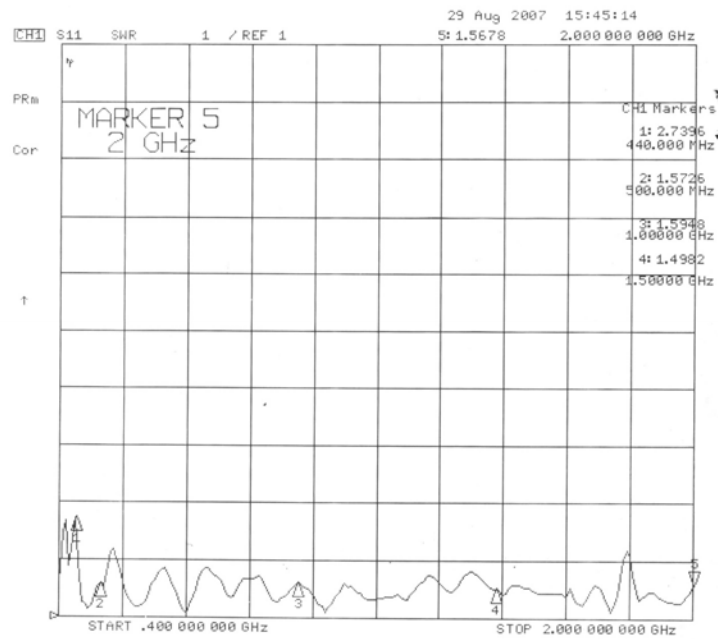
2. Axial Ratio

Frequency(GHz)	0.5	0.8	1.0	1.2	1.5	1.8	2.0
Axial Ratio(dB)	1.2	3.5	1.4	0.5	2.1	2.2	1.5

3. Beamwidth

Frequency(GHz)	E(°)	H(°)
0.5	103.1	100.8
0.8	86	77.7
1.0	81.4	82.3
1.2	62	70
1.5	60.6	64.5
1.8	58.4	65.5
2.0	59.4	92.8

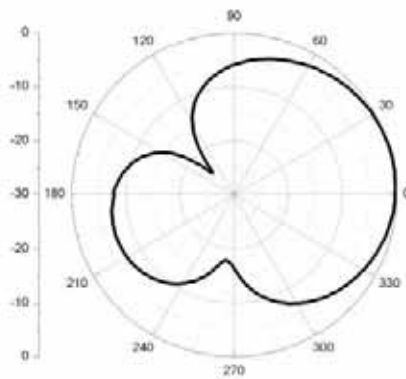
4. VSWR



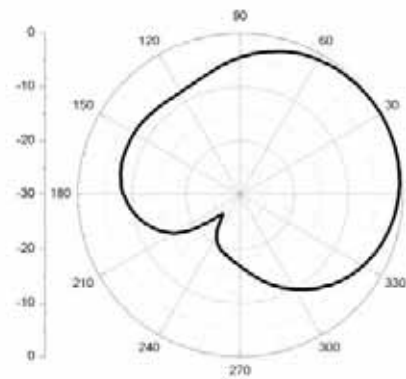
5. Pattern

Frequency: 0.5GHz

H Plane

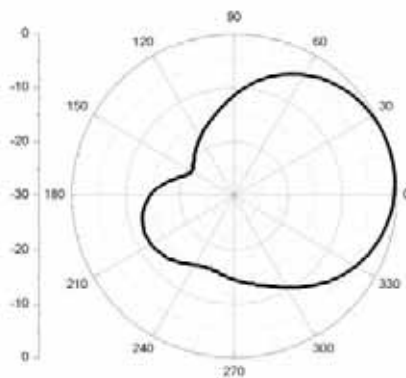


E Plane

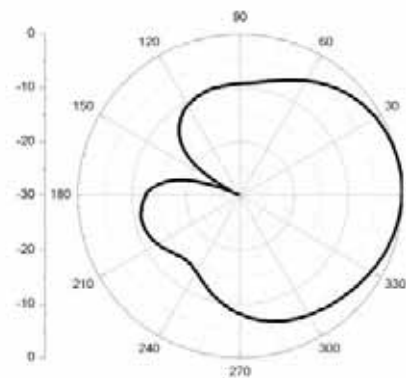


Frequency: 0.8GHz

H Plane

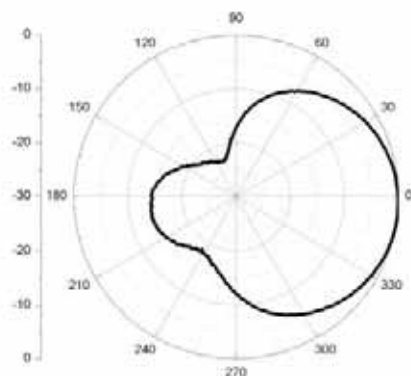


E Plane

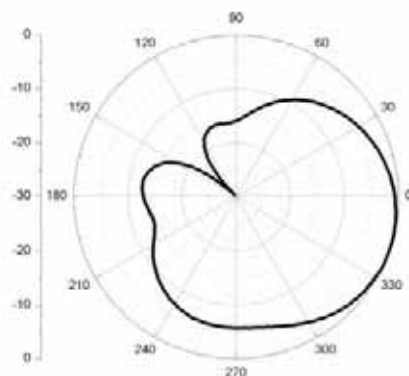


Frequency: 1.0GHz

H Plane

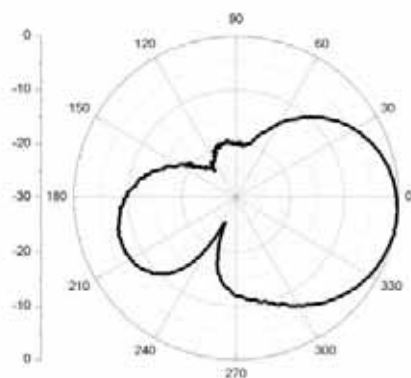


E Plane

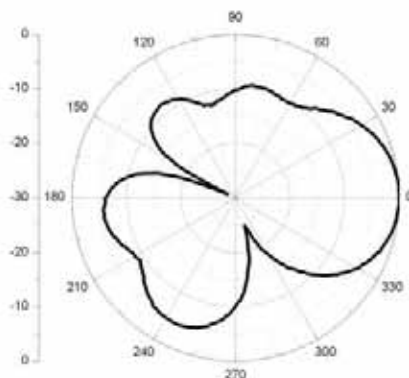


Frequency: 1.1GHz

H Plane

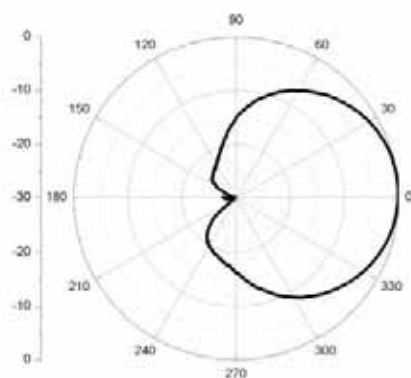


E Plane

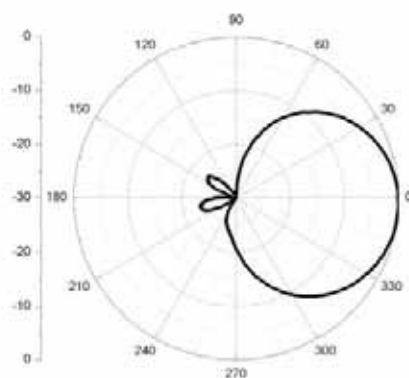


Frequency: 1.2GHz

H Plane

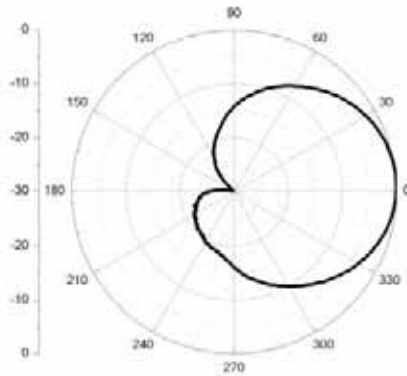


E Plane

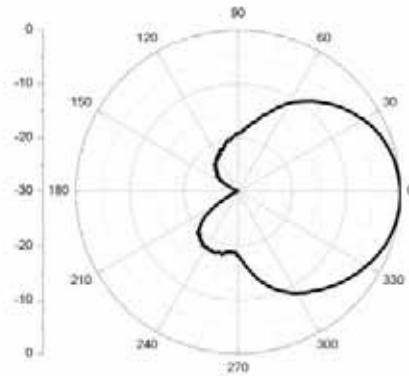


Frequency: 1.5GHz

H Plane

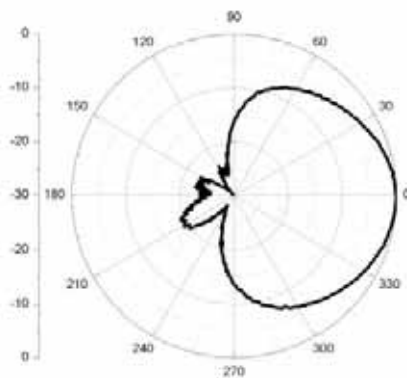


E Plane

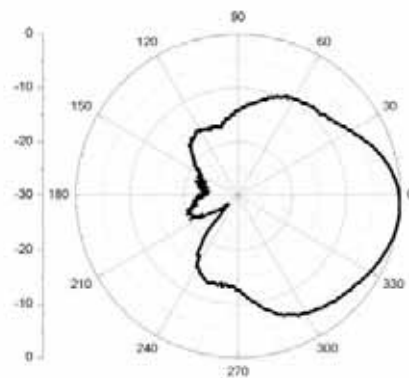


Frequency: 1.8GHz

H Plane

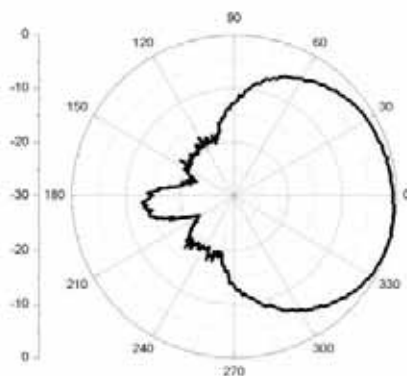


E Plane



Frequency: 2.0GHz

H Plane



E Plane

