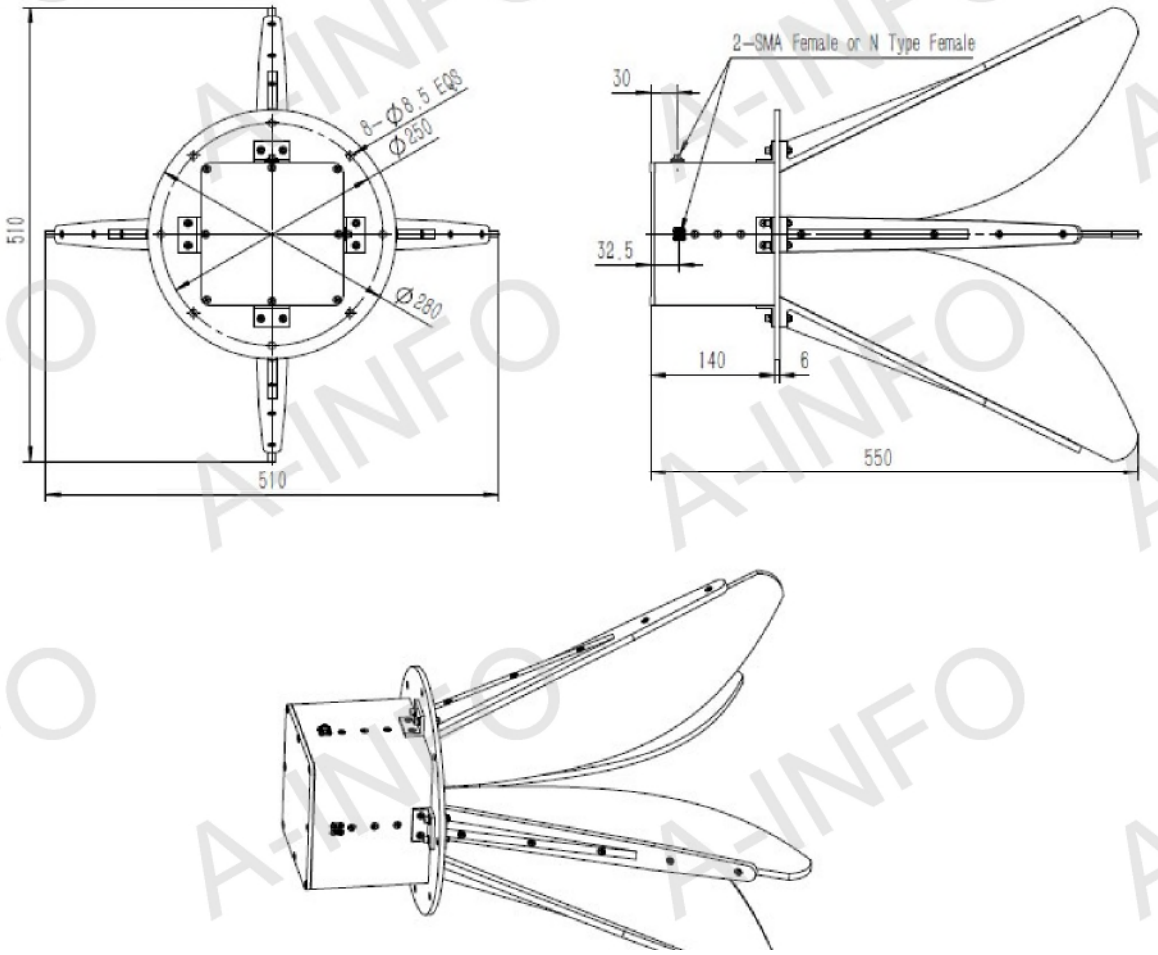
A-INFO

LB-OSJ-0460
0.4 - 6GHz Open Boundary Quad-Ridged Horn

Technical Specification

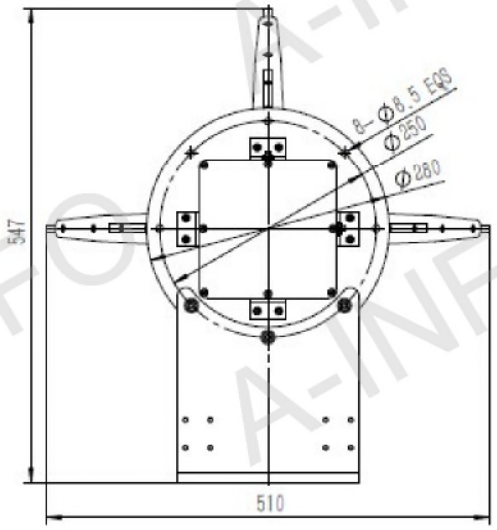
Frequency Range(GHz)	0.4-6.0	
Gain(dB)	4-14	
Polarization	Dual Pol	
VSWR	3.0:1 Max.	
	1.5:1 Typ.	
3dB Beamwidth(deg)	80-30	
Cross Pol. Isolation(dB)	20 Min.	
Port to Port Isolation(dB)	20 Min.	
Connector	SMA-F / N-F	
Power Handling(W)	SMA-F	50 Max. CW
	N-F	50 Max. CW
Size(mm)	510 x 510 x 550	
Net Weight(Kg)	9.5 Around	

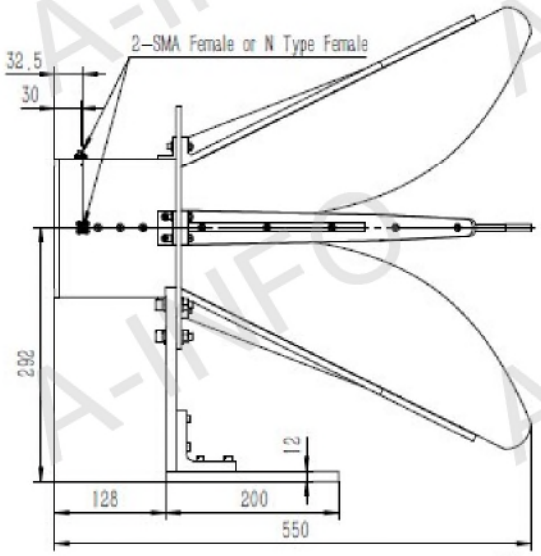
Outline Drawing (Size: mm)

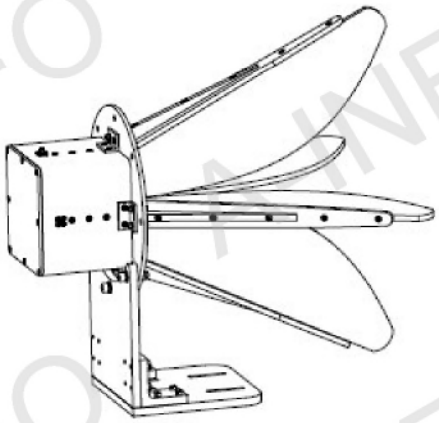


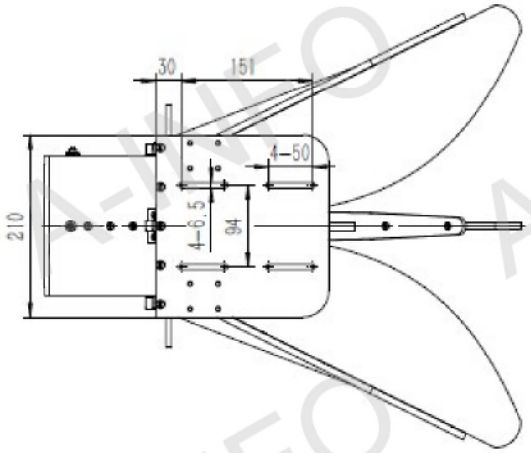
Distributed by: Reliant EMC LLC, Tel. +408-320-9644/+408-916-5750, www.reliantemc.com

Outline Drawing with Mounting Bracket (Material: non-metal) (Size: mm)





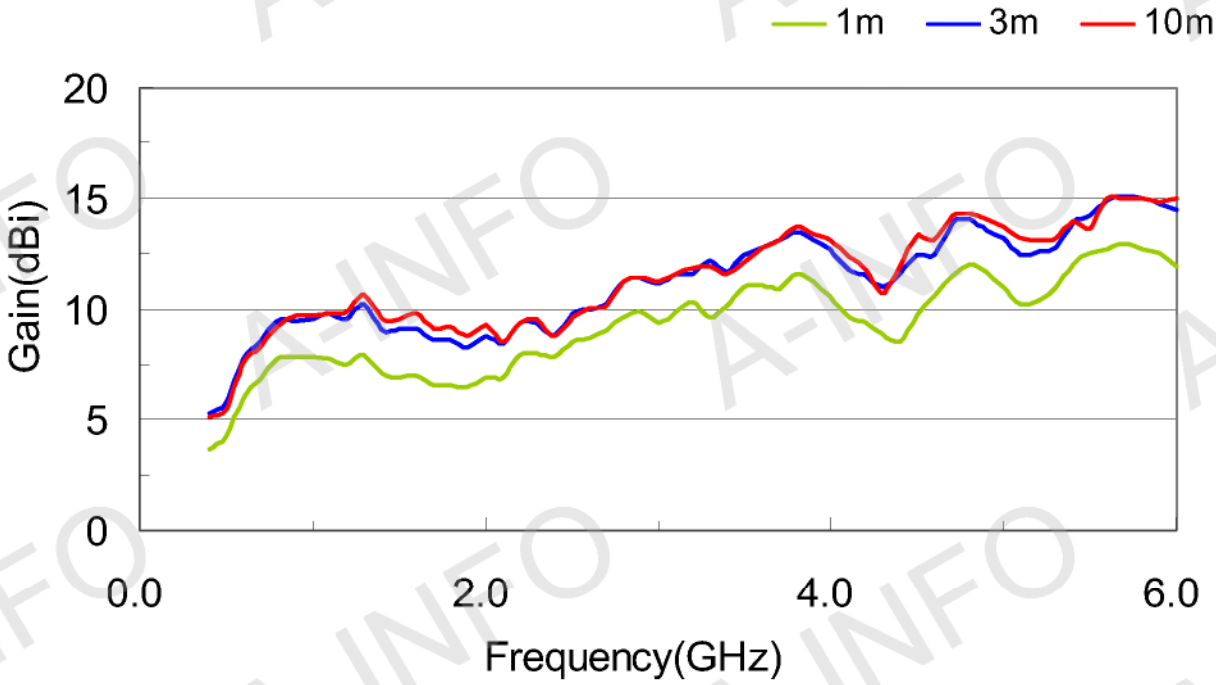




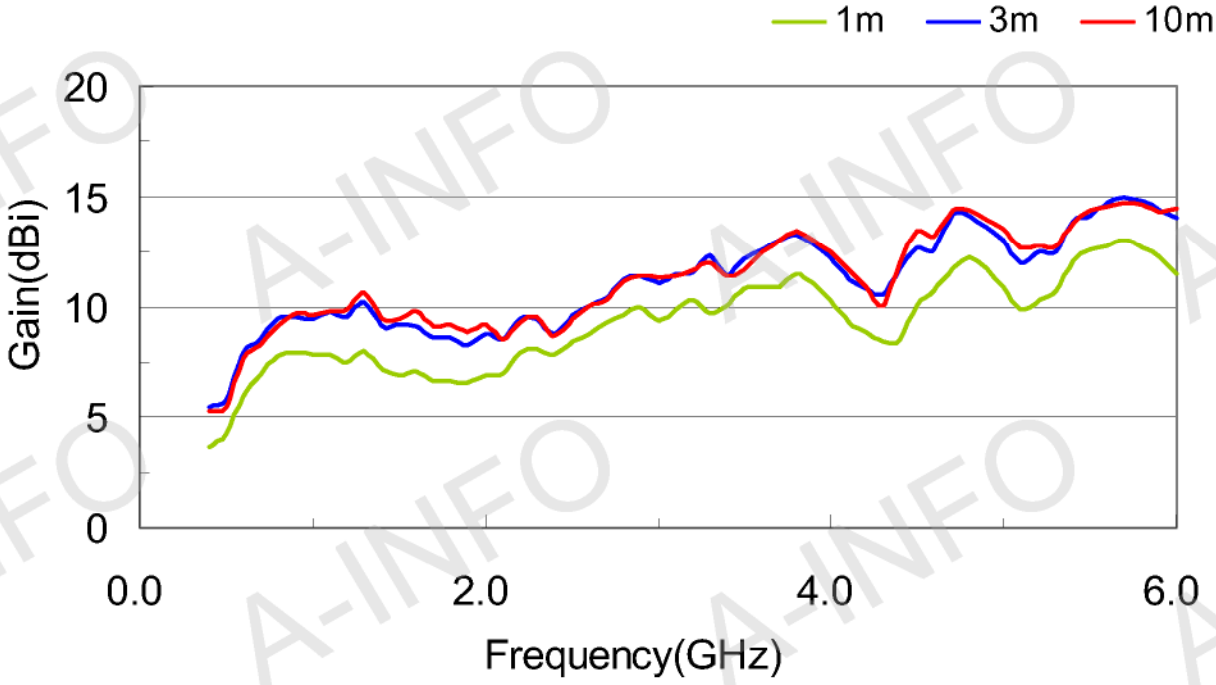
Test Results

1. Gain

Port-H

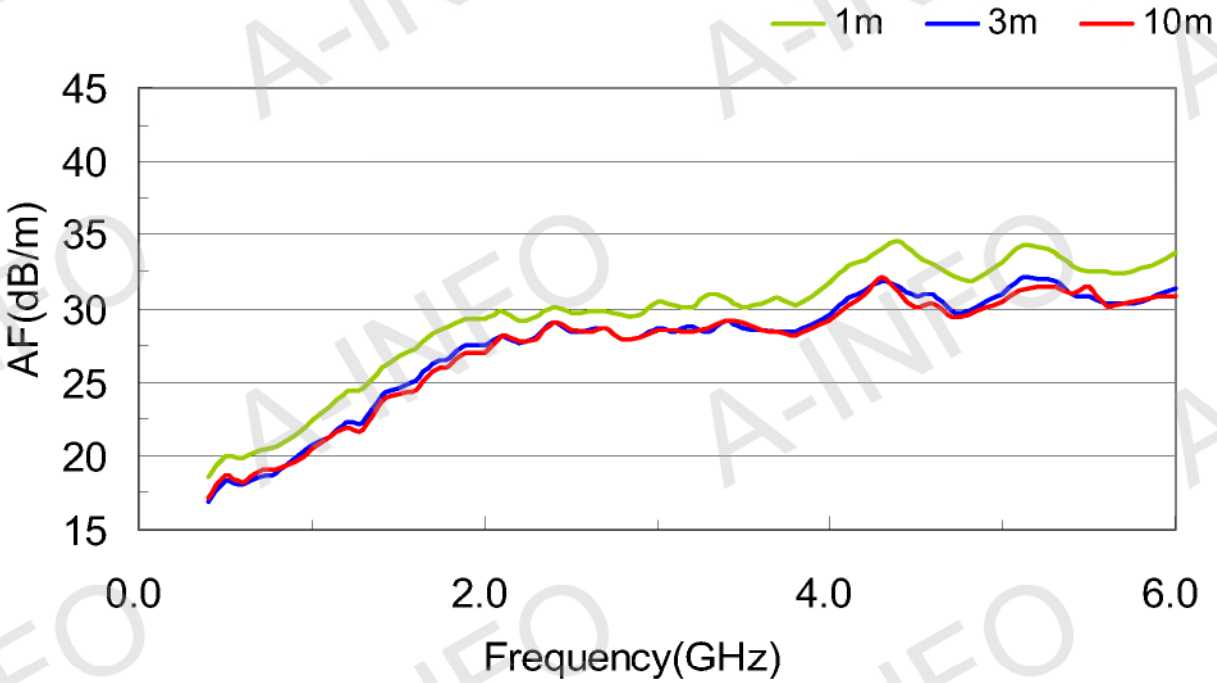


Port-V

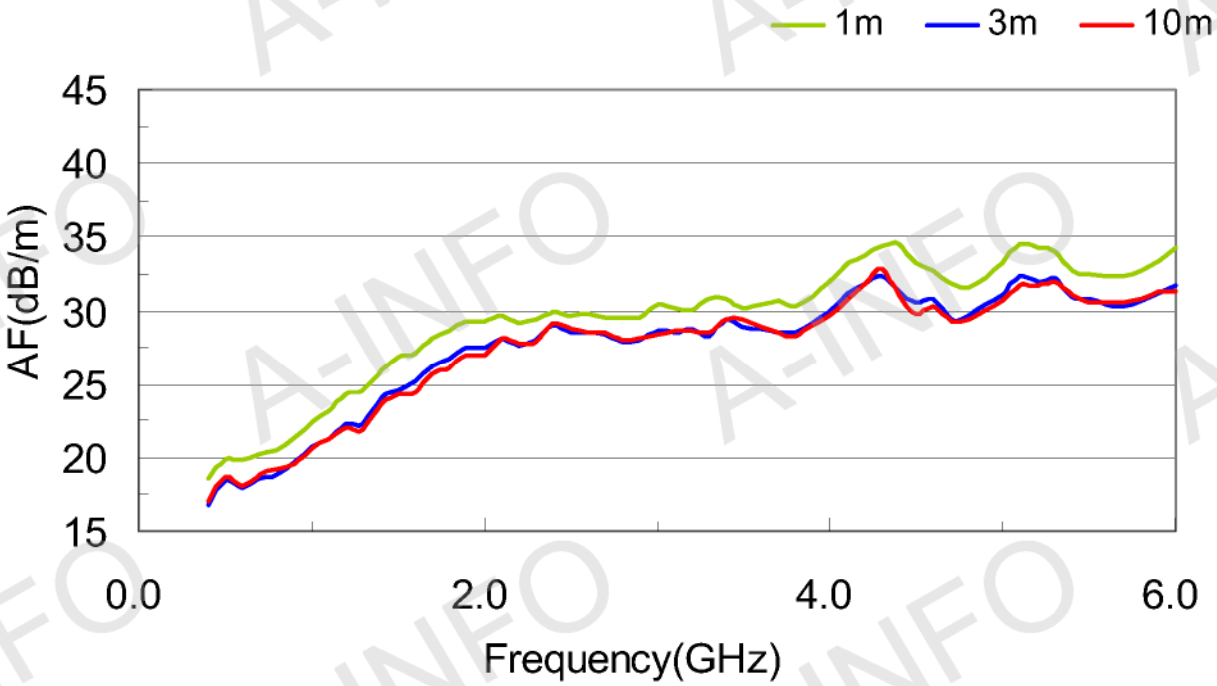


2. Antenna Factor

Port-H



Port-V



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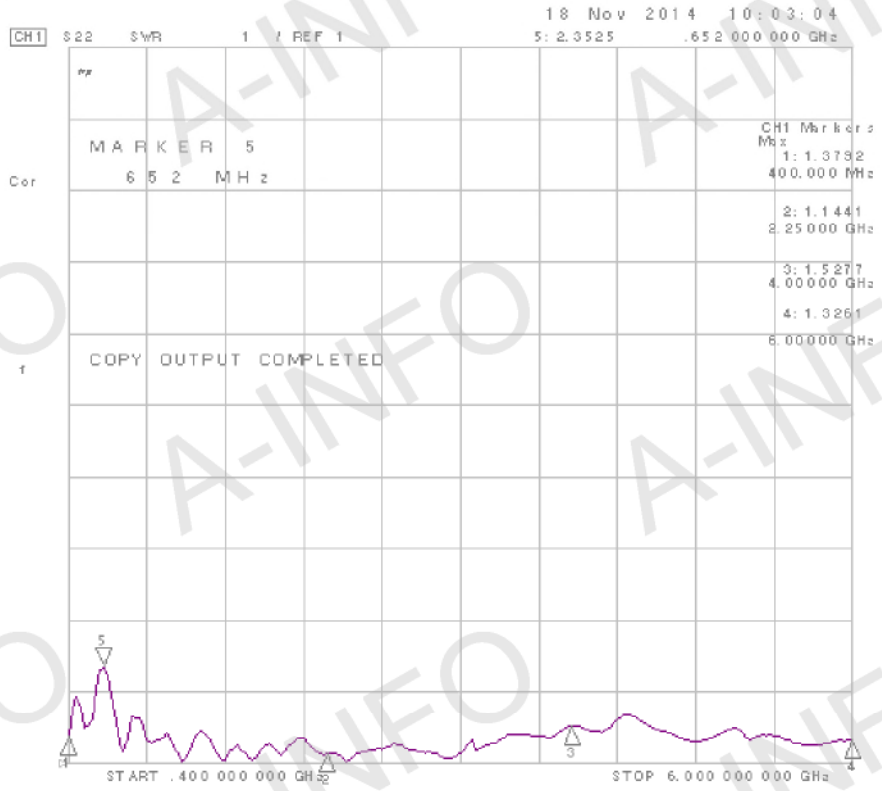
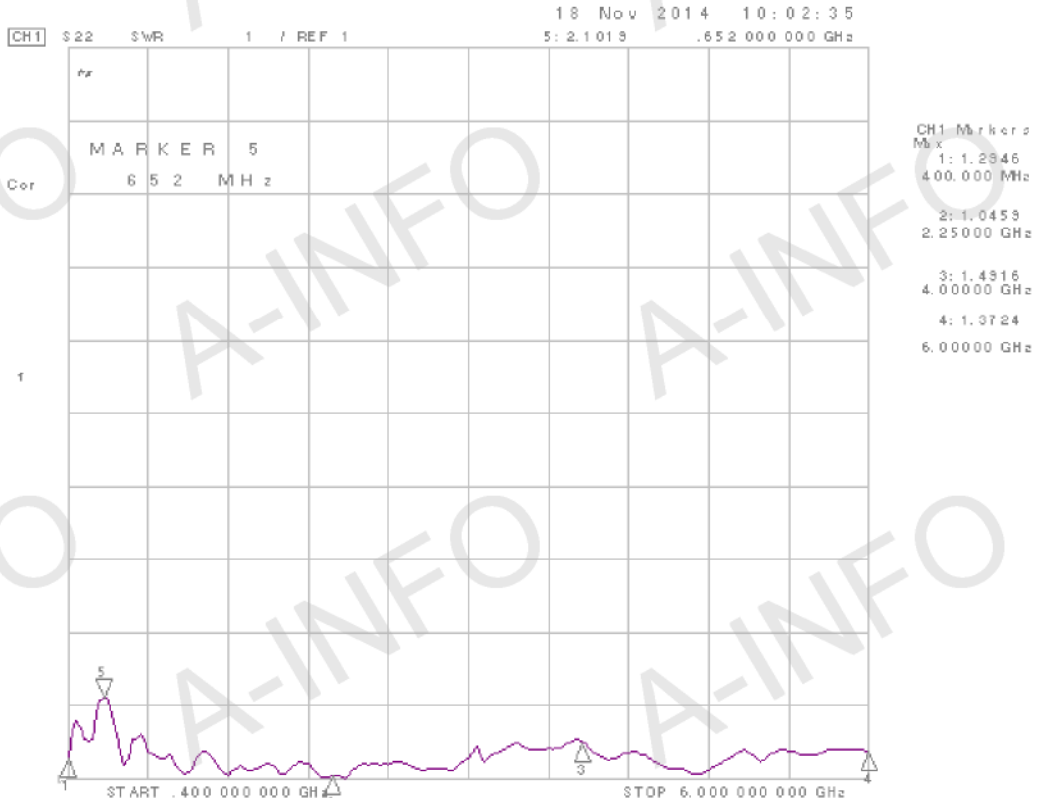
3. VSWR

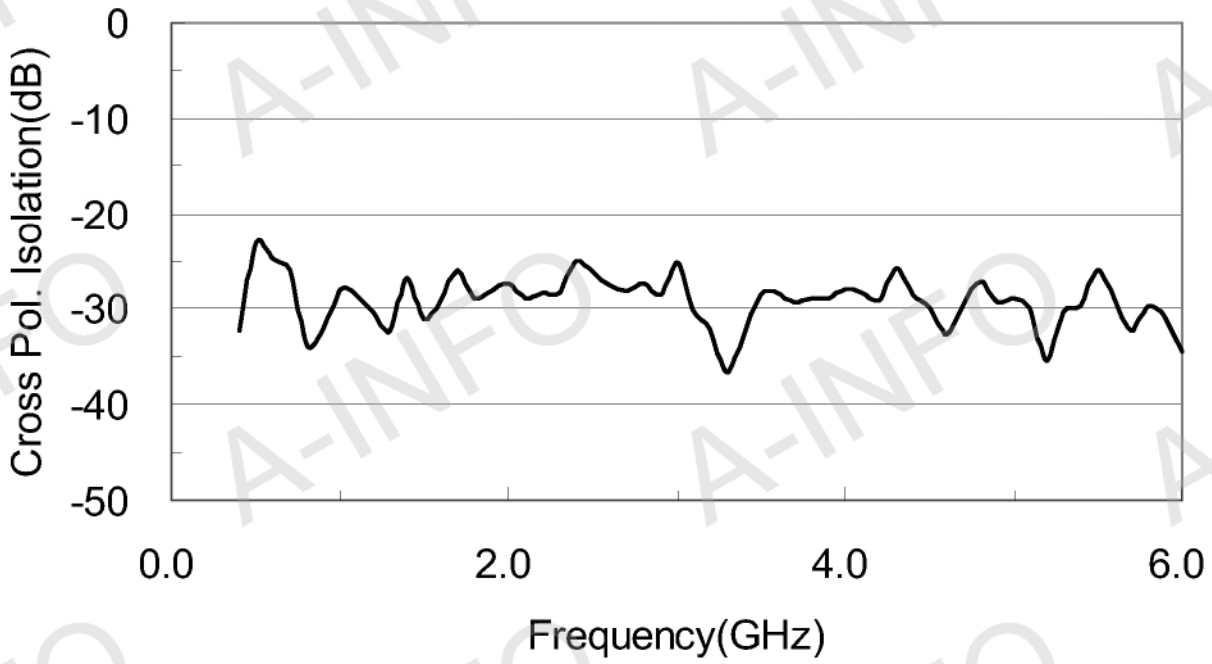
Port-H



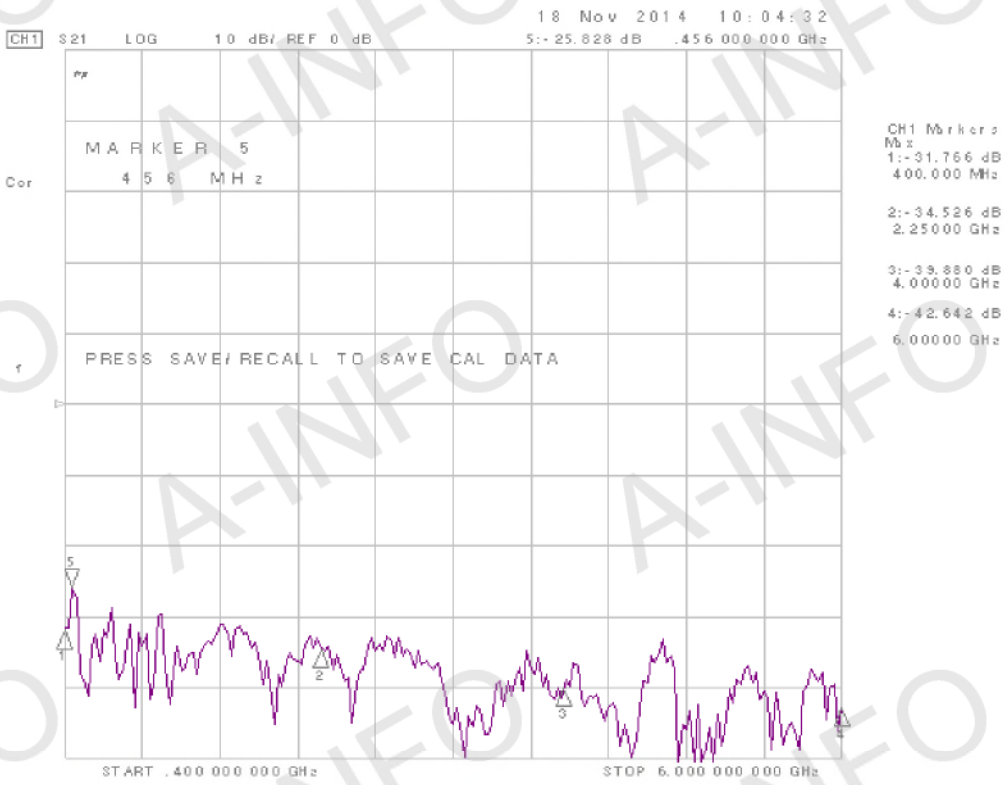
Port-V



4. Cross Polarization Isolation

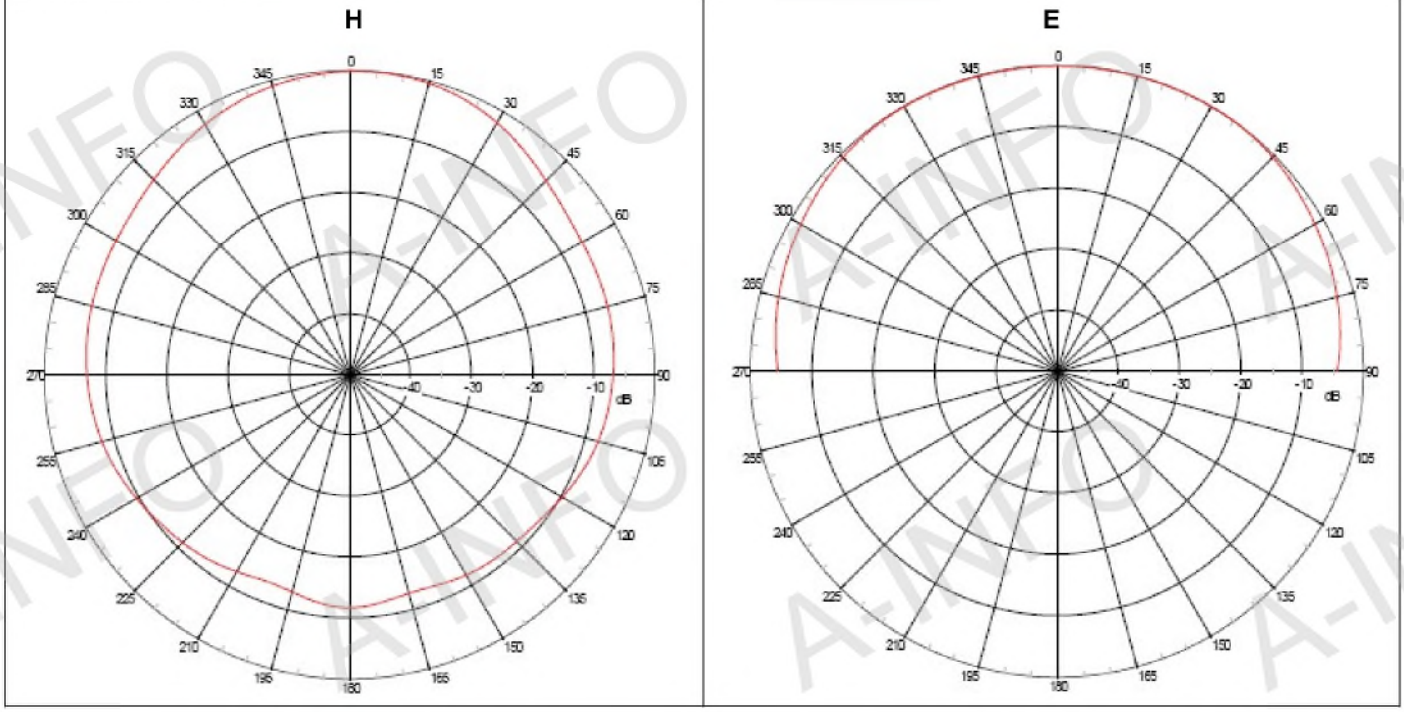


5. Isolation

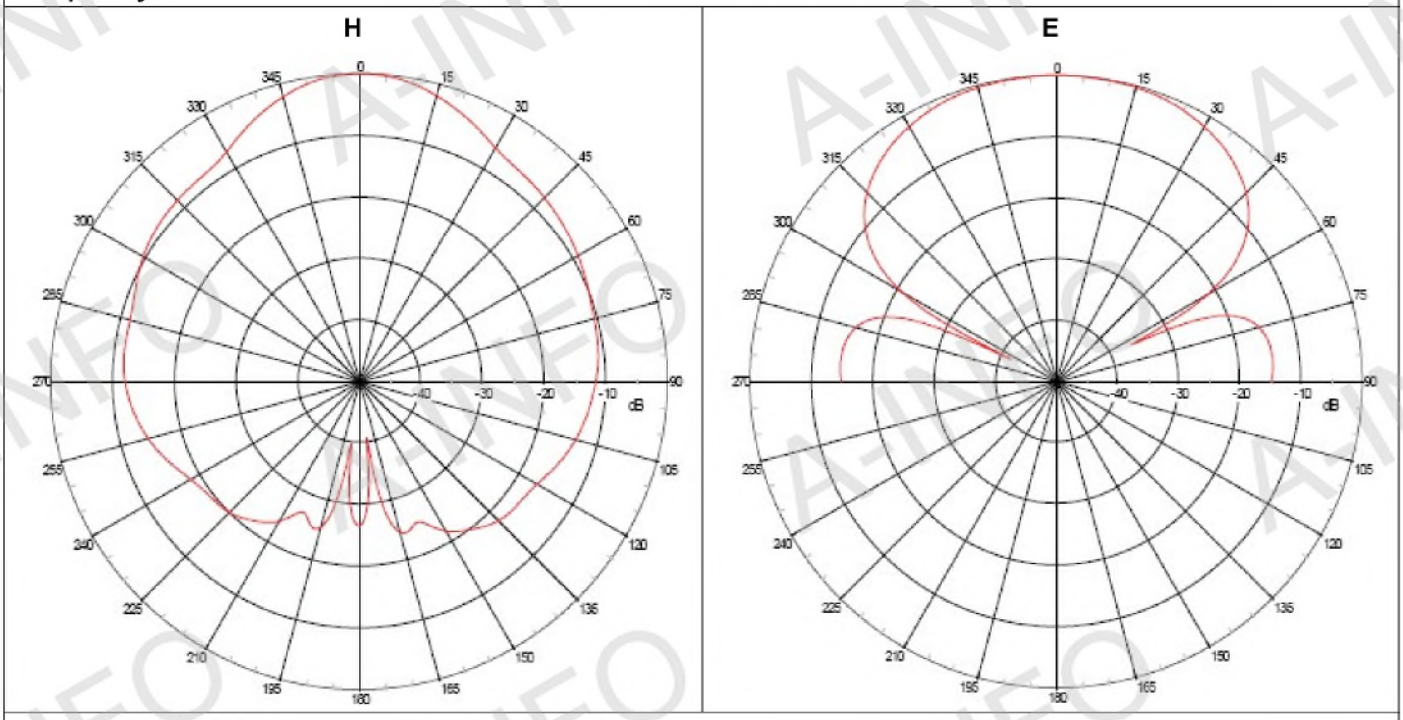


6. Pattern (Tested by NSI - www.nearfield.com)

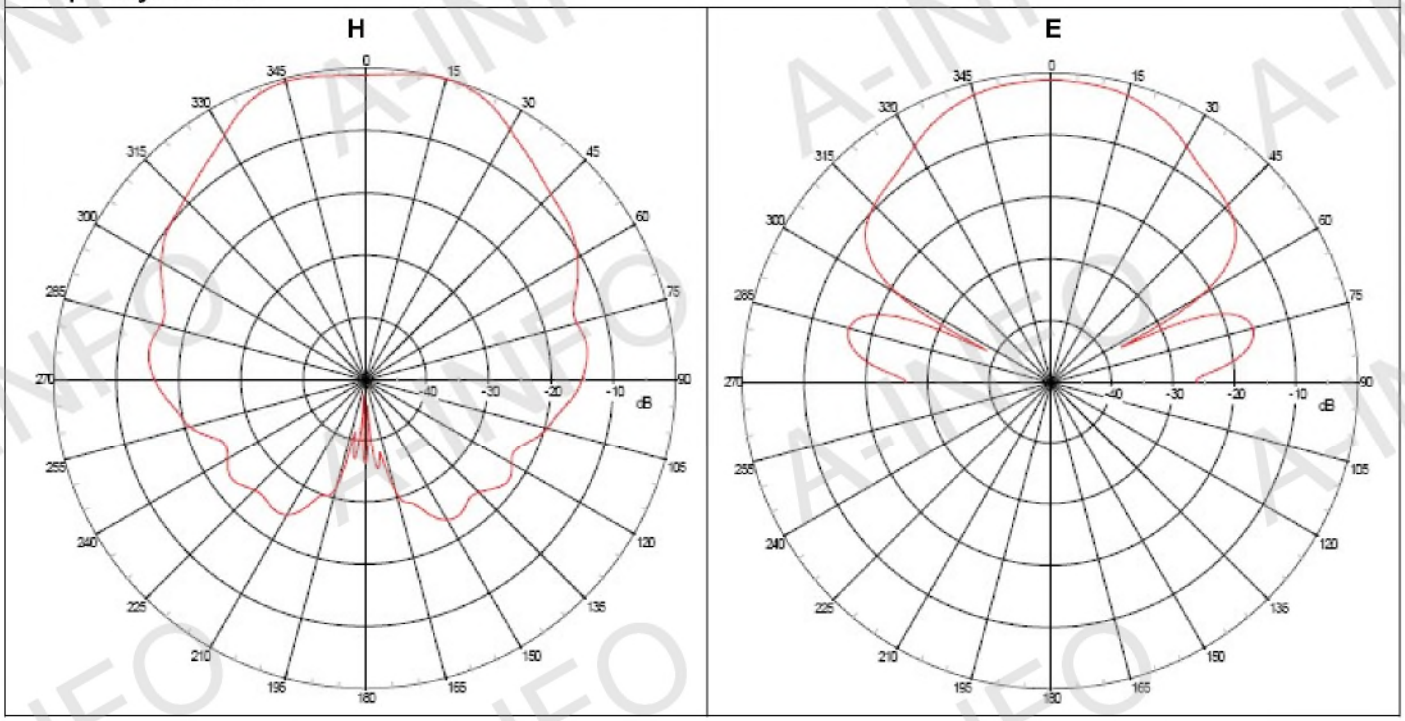
Frequency: 0.4GHz



Frequency: 1GHz

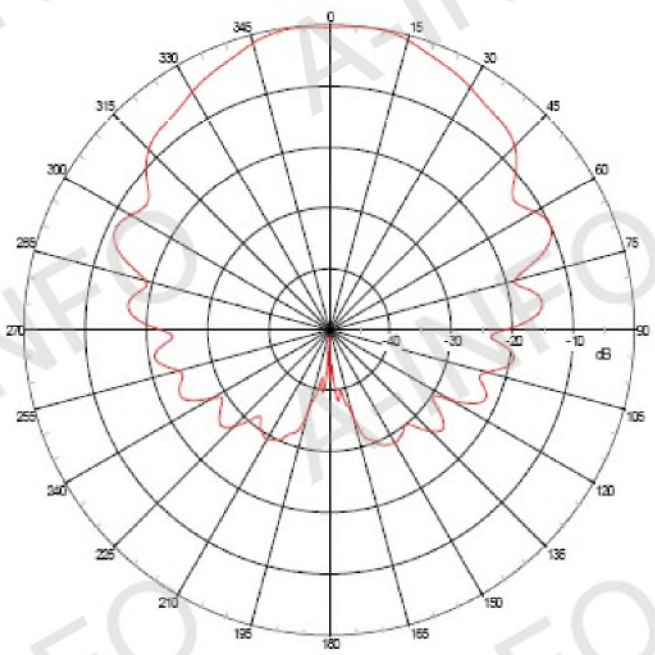


Frequency: 2.0GHz

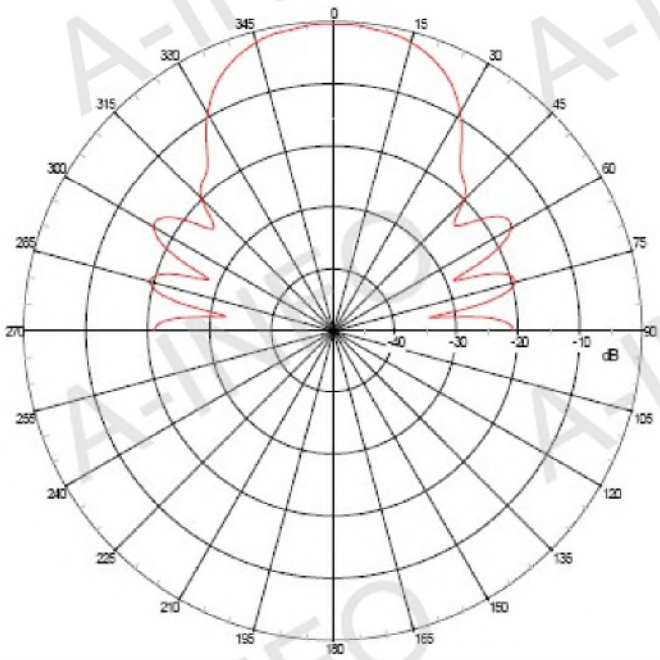


Frequency: 3.0GHz

H

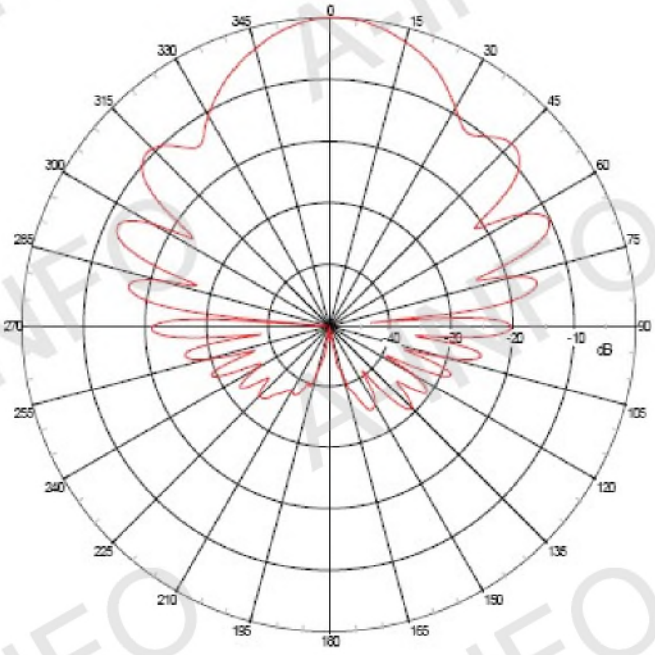


E

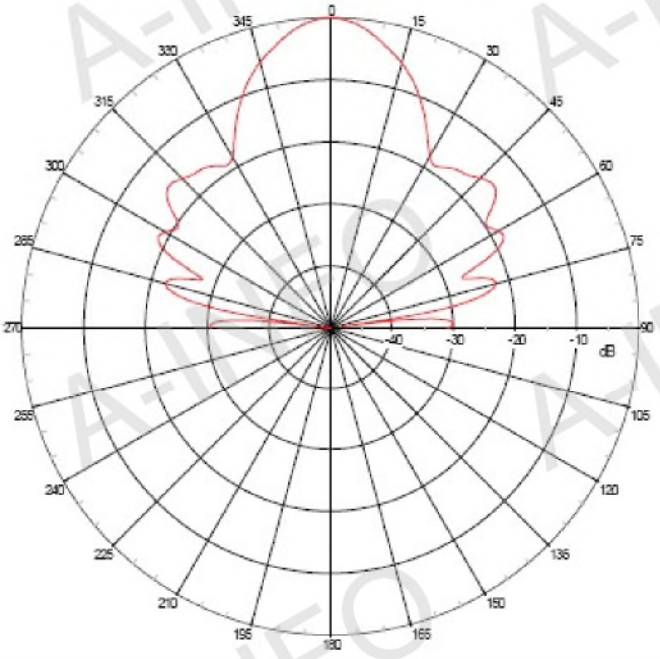


Frequency: 4.0GHz

H

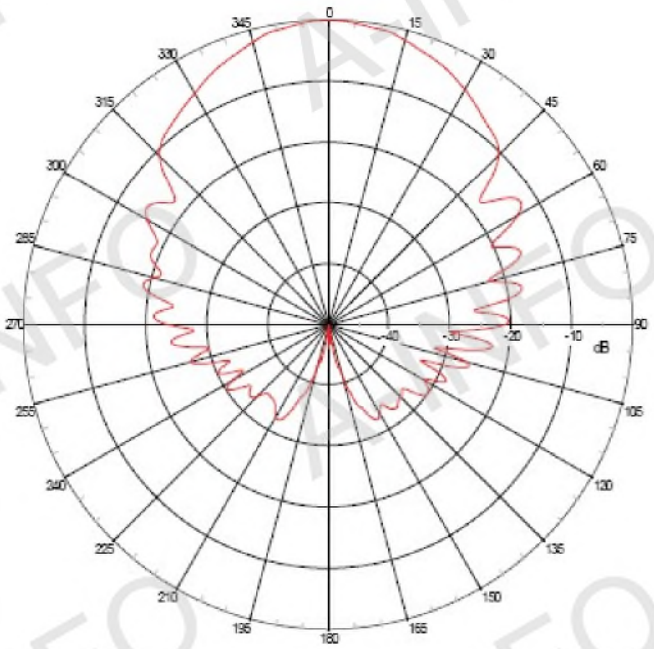


E

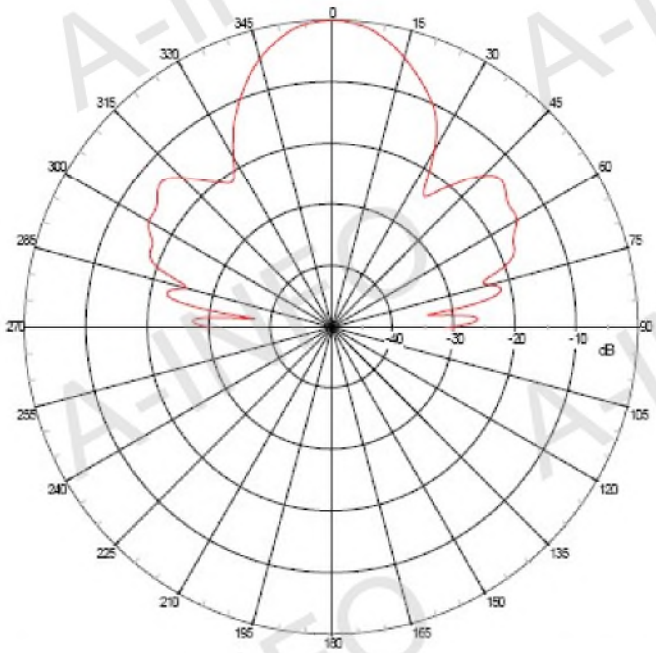


Frequency: 5.0GHz

H

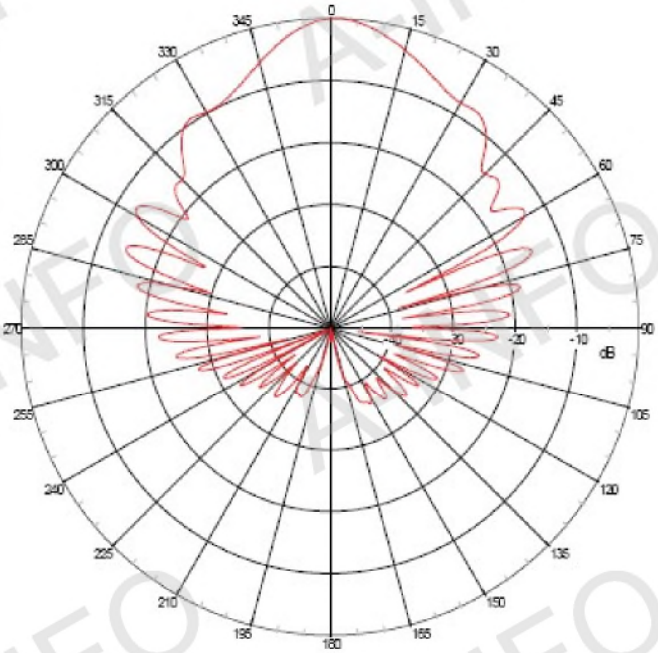


E

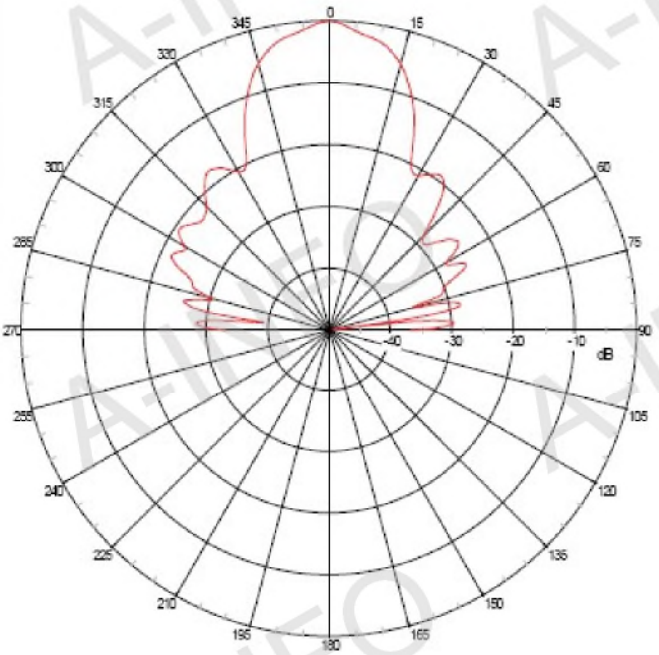


Frequency: 6.0GHz

H

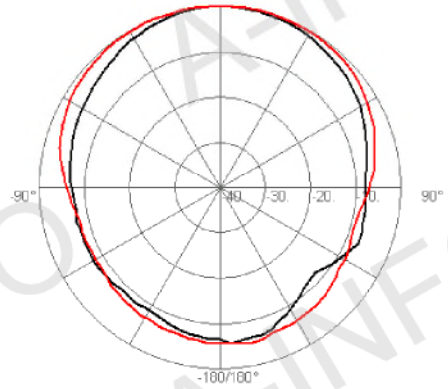


E



7. Pattern (Tested by A-INFO)

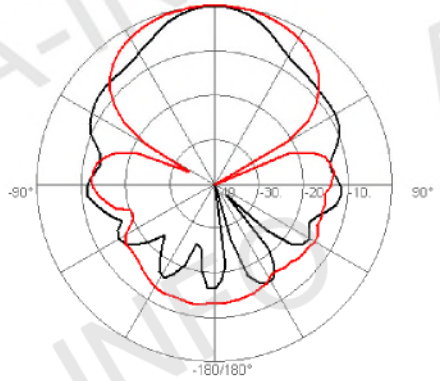
Frequency: 0.4GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 136.72 3dB Beamwidth (deg): 89.11

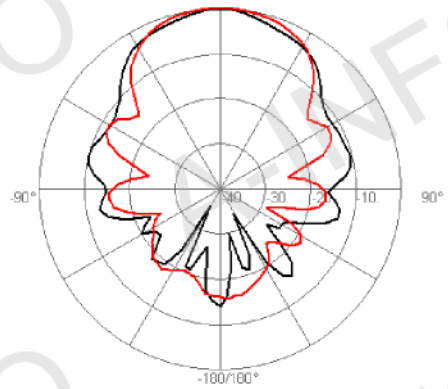
Frequency: 1.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 68.28 3dB Beamwidth (deg): 35.84

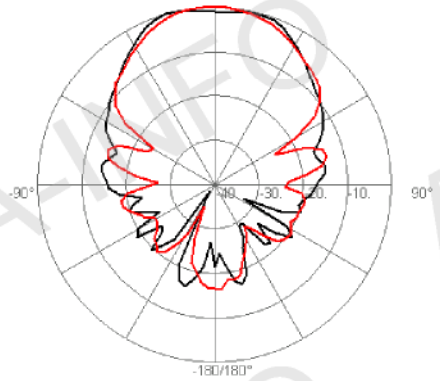
Frequency: 1.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 56.55 3dB Beamwidth (deg): 53.77

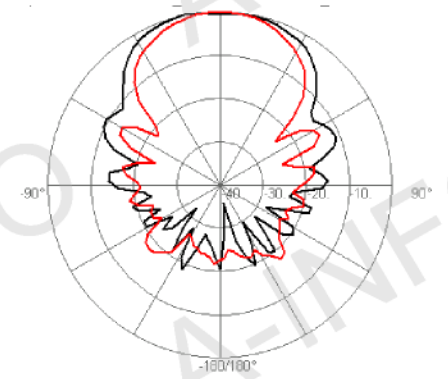
Frequency: 2.0GHz



H-Plane ——— E-Plane ———

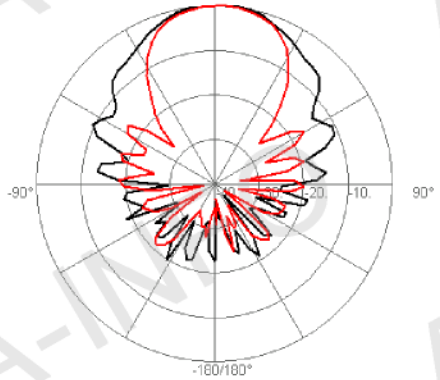
3dB Beamwidth (deg): 50.44 3dB Beamwidth (deg): 56.75

Frequency: 2.5GHz



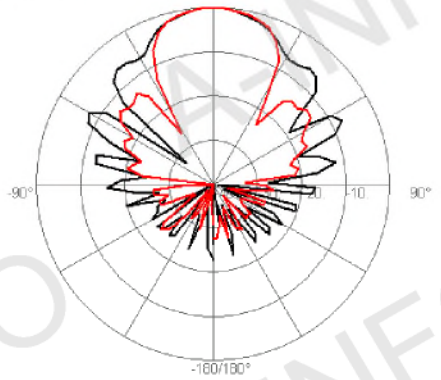
H-Plane ——— E-Plane ———

Frequency: 3.0GHz



H-Plane ——— E-Plane ———

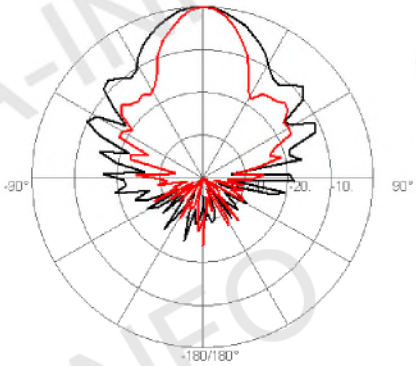
Frequency: 3.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 39.11 3dB Beamwidth (deg): 40.00

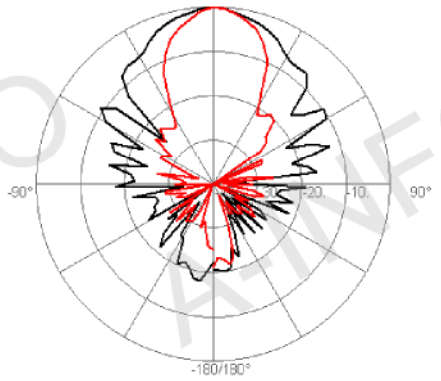
Frequency: 4.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 19.39 3dB Beamwidth (deg): 31.78

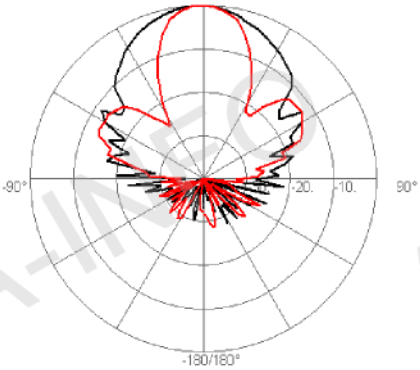
Frequency: 4.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 22.30 3dB Beamwidth (deg): 36.55

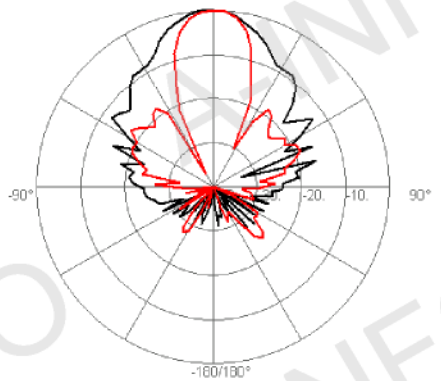
Frequency: 5.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 24.93 3dB Beamwidth (deg): 40.77

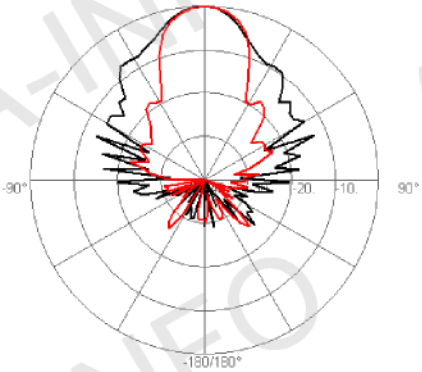
Frequency: 5.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 20.70 3dB Beamwidth (deg): 29.66

Frequency: 6.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 24.98 3dB Beamwidth (deg): 24.62