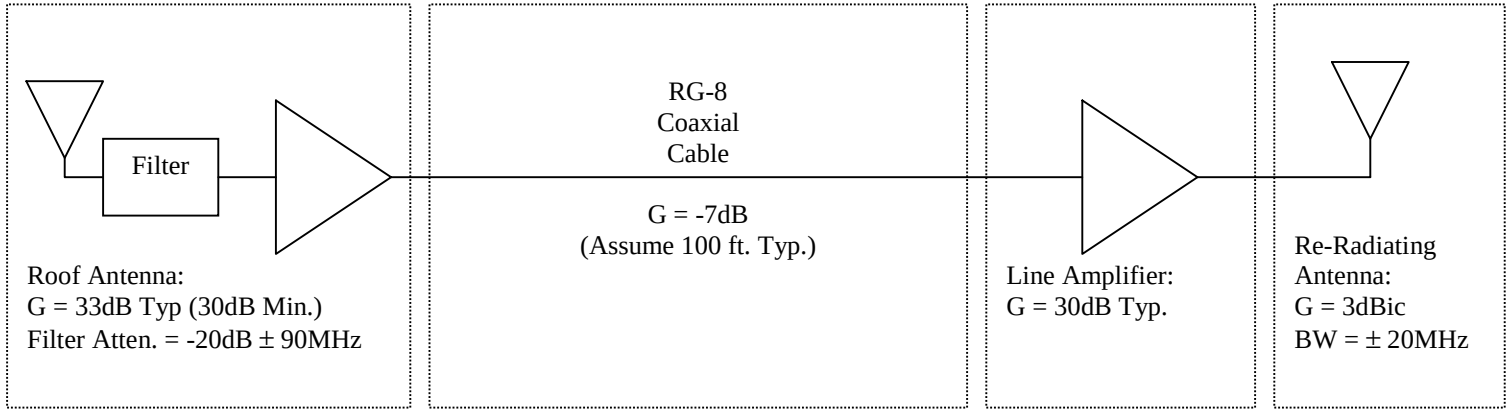
GPS SOURCE REPEATER KIT RADIATED POWER
(L1 Only)

P_{REC} = -157.5 dBW (average received power)
F_{REC} = 1575.42 MHz

$P_{RE\text{-}RAD}$ = -101.5 dBW
$F_{RE\text{-}RAD}$ = 1575.42 MHz

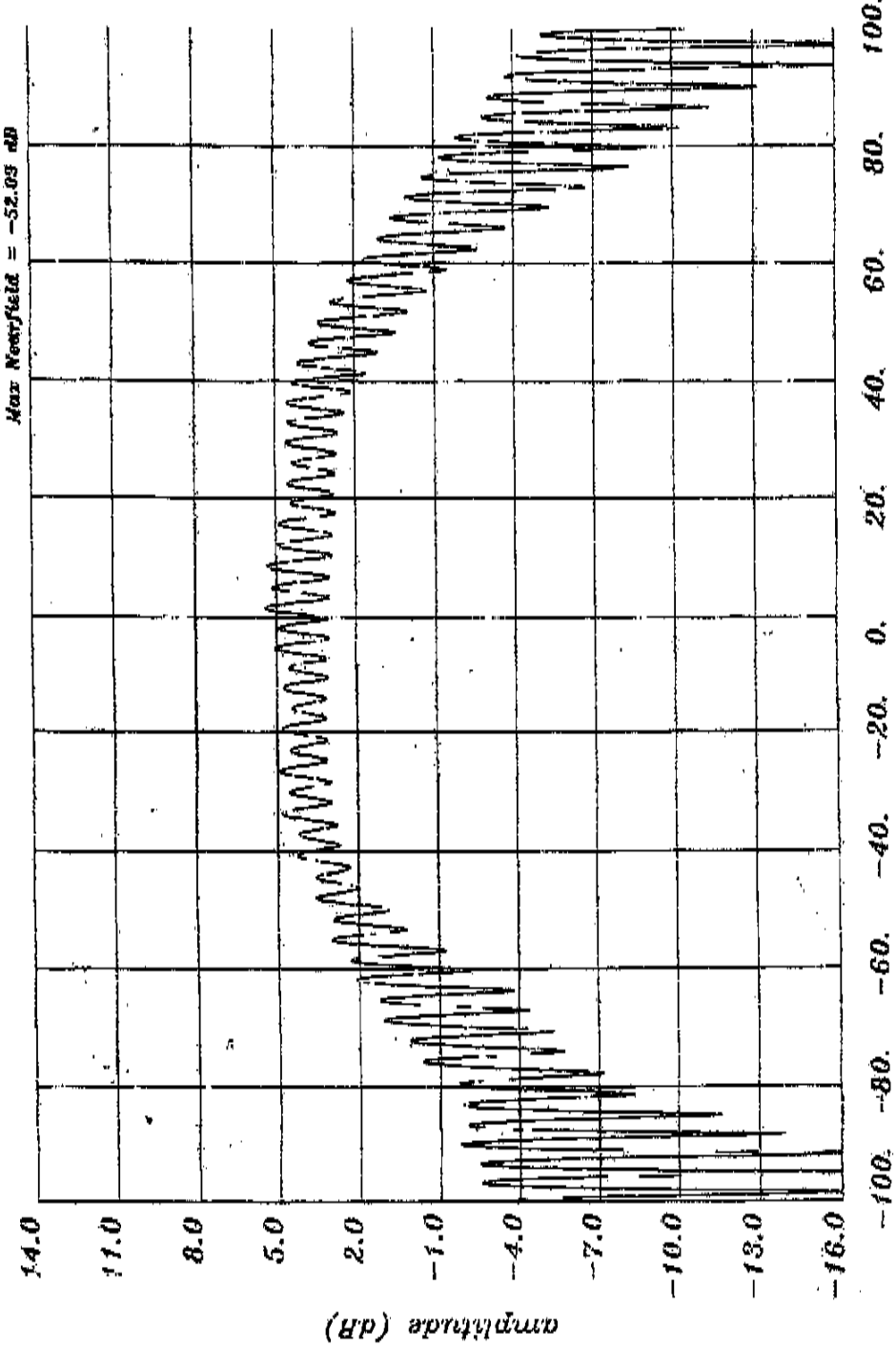


$$\mathbf{P_{dBW} = 10Log_{10}\,(P_{WATTS})}$$

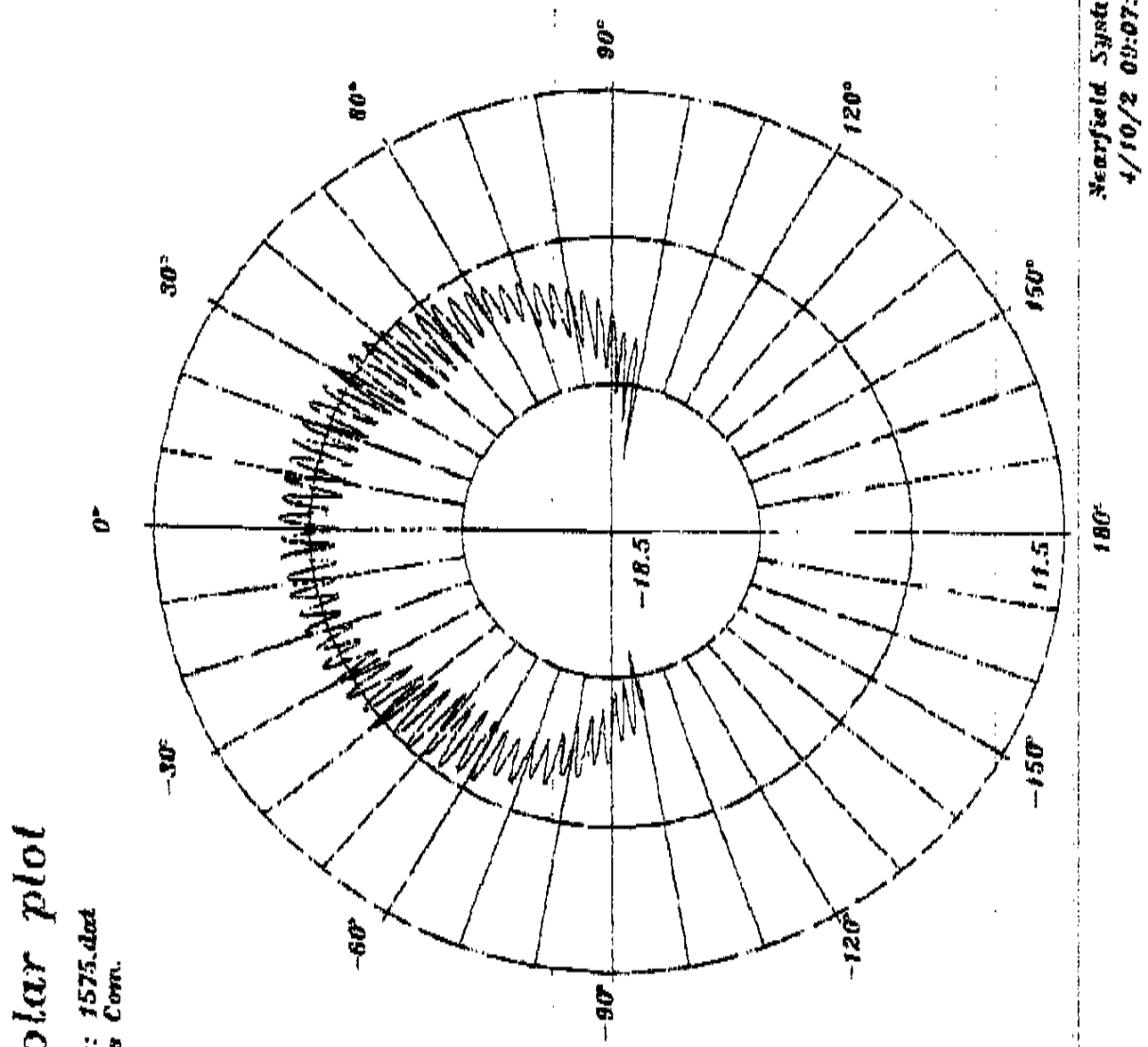
$$\mathbf{P_{WATTS} = 10^{(P_{dBW}/10)}}$$

$$\mathbf{P_{RE\_RAD,WATTS} = 10^{(-101.5/10)} = \ 71\ picoWatts}$$

(Sufficient for indoor, Line-of-Sight Operation Only)


near-field amplitude
LITE v2.2.6d 1/10/97
pol 1 Tau=2.000
GPS-P1P
File: P2P-5.DAT 2/ 6/2 14:56:54
Frequency: 1.575 GHz
Z distance: 3.500 m , rms = 0.203 m
Max Nearfield = -52.05 dB
amplitude (dB)
14.0
11.0
8.0
5.0
2.0
-1.0
-4.0
-7.0
-10.0
-13.0
-16.0
-100. -80. -60. -40. -20. 0. 20. 40. 60. 80. 100.
Az axis (deg)

[redacted]


Nearfield Systems Inc.
4/10/2 09:07:22
Polar plot
File: 1575.dat
Ales Com.
90°
60°
120°
30°
150°
0°
180°
-30°
-150°
-60°
-120°
-90°
-18.5
11.5

Radiation Pattern of L1/L2 GPS Antenna:
E/H Elevation Cuts @ 1.575 GHz on 3.5” Dia. Ground Plane

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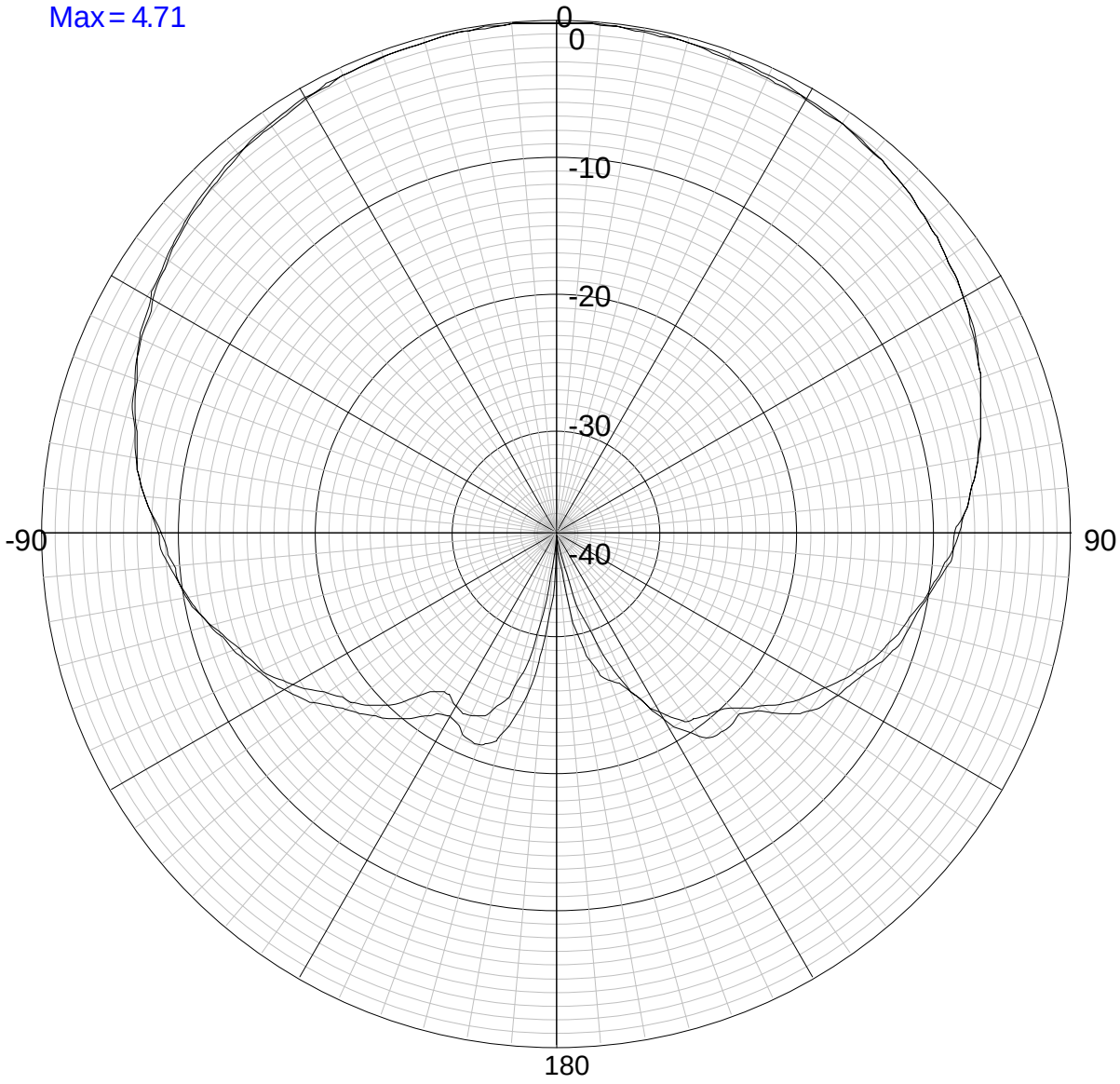
Co-Pol - Amp



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Elevation Cuts @ 1.575 GHz on 3.5 " Dia. Ground Plane

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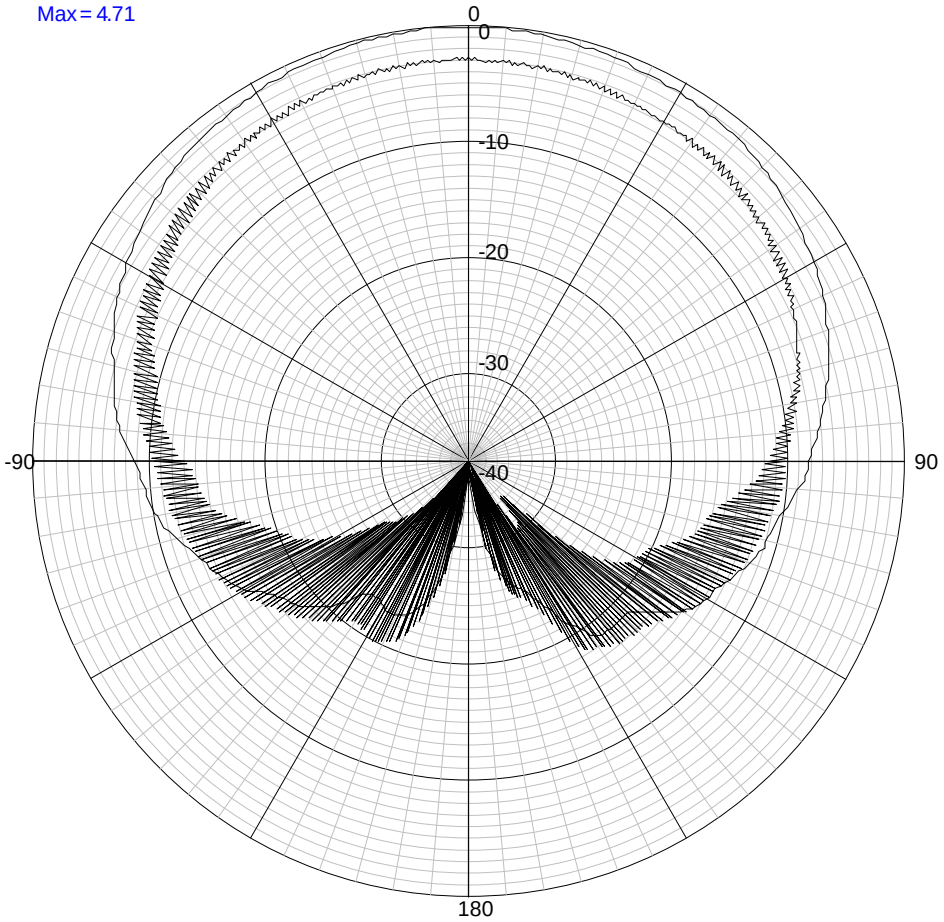
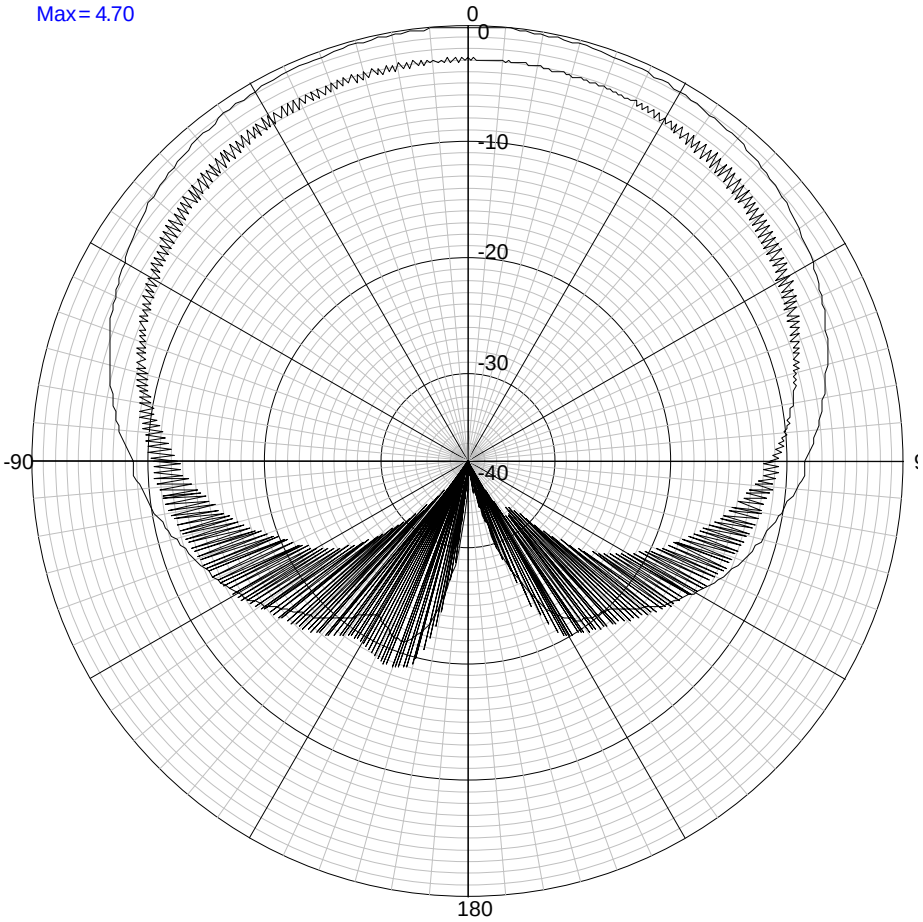
Rotating Linear (E-Cut)



Rotating Linear (H-Cut)



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Azimuth Cuts @ 1.575 GHz on 3.5” Dia. Ground Plane

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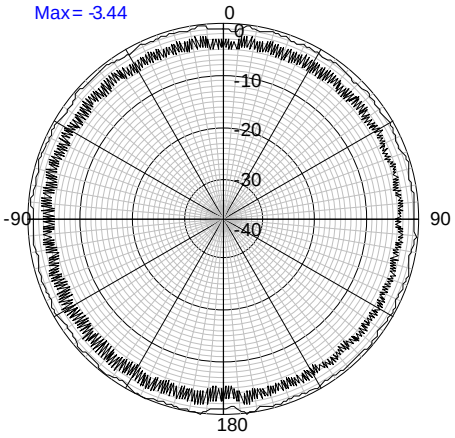
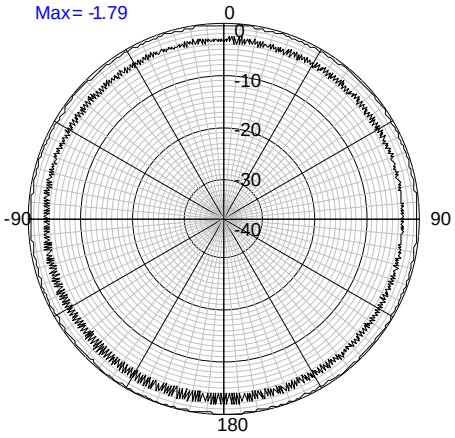
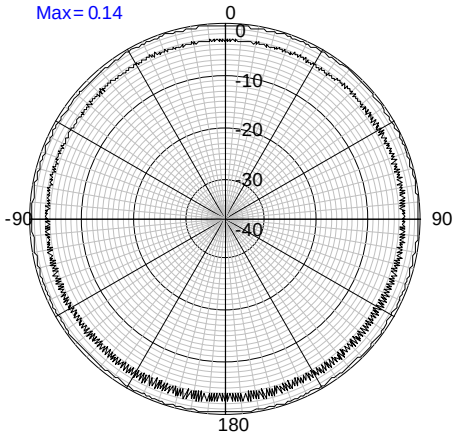
El = 0 deg



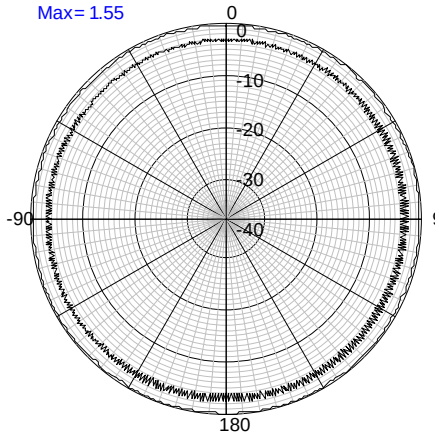
El = 10 deg



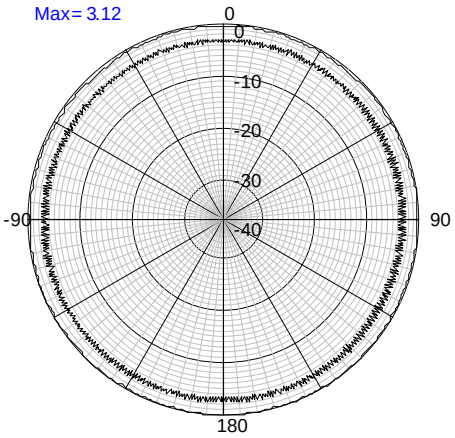
El = 20 deg



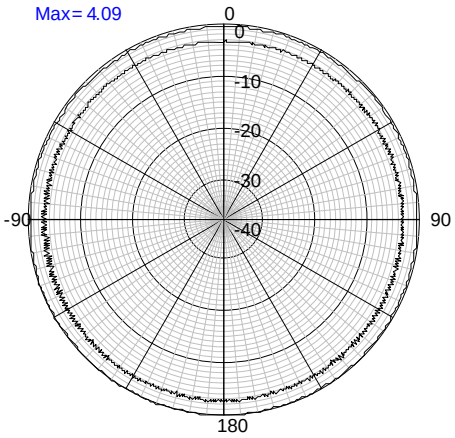
El = 30 deg



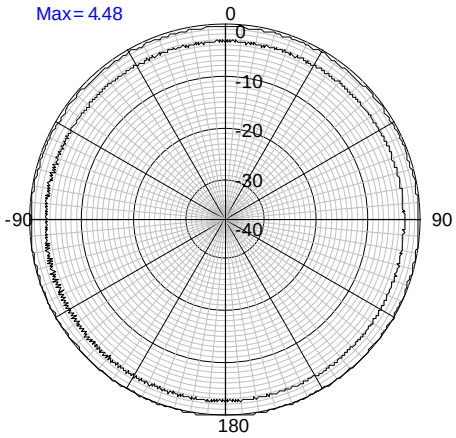
El = 45 deg



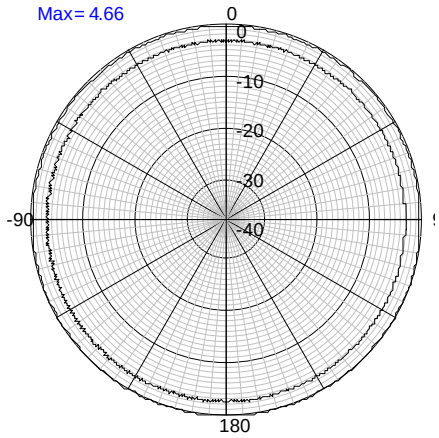
El = 60 deg



El = 70 deg



El = 80 deg



Radiation Pattern of L1/L2 GPS Antenna:
E/H Elevation Cuts @ 1.227 GHz on 3.5” Dia. Ground Plane

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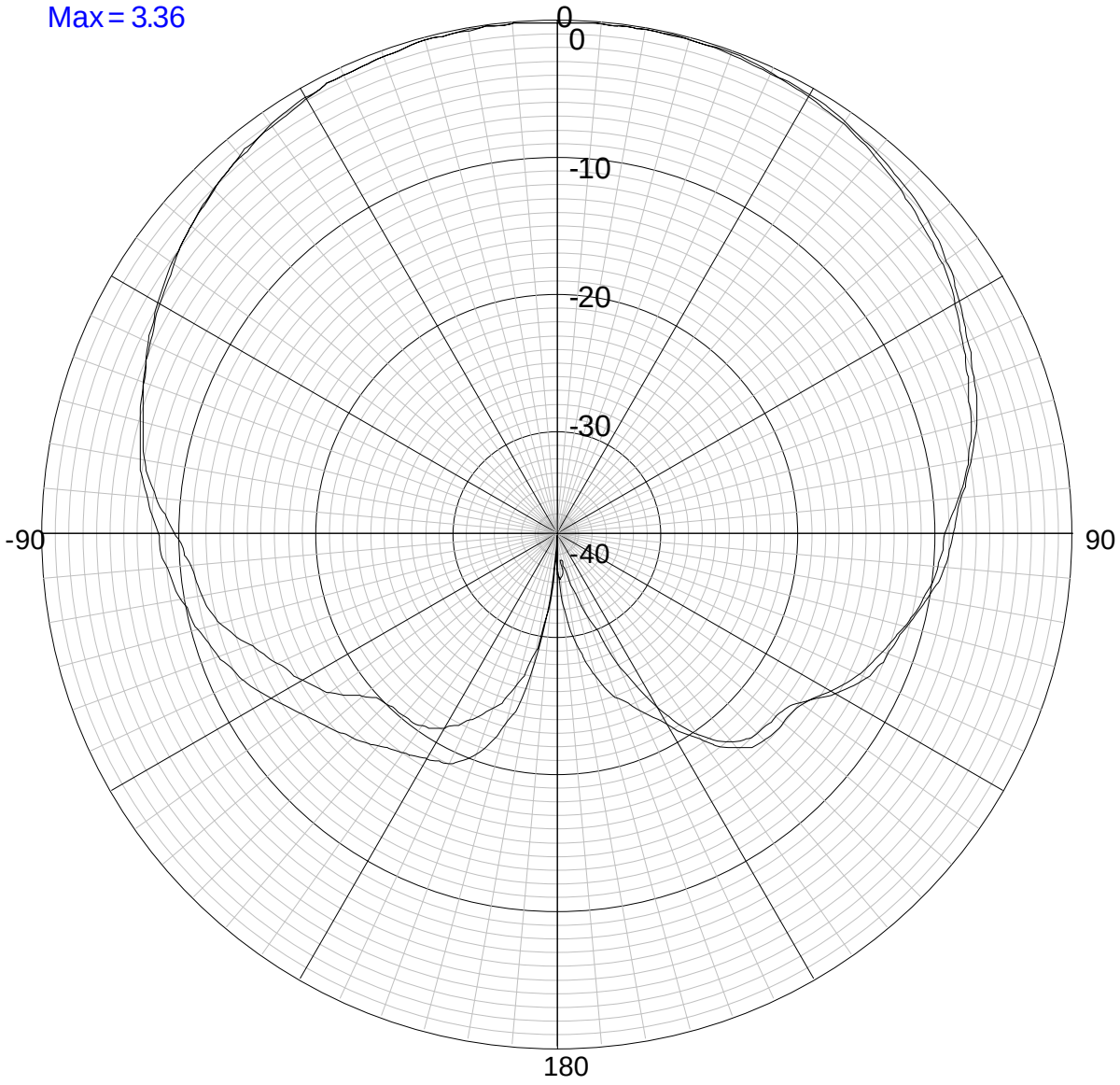
Co-Pol - Amp



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Elevation Cuts @ 1.227 GHz on 3.5” Dia. Ground Plane

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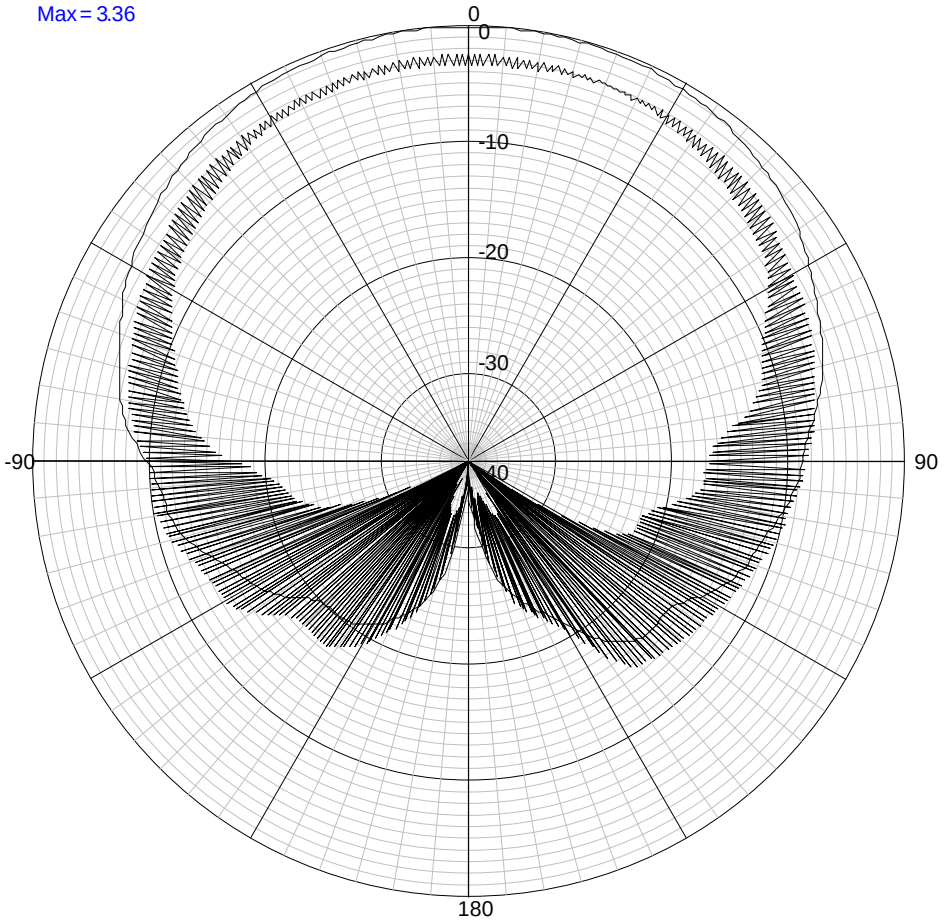
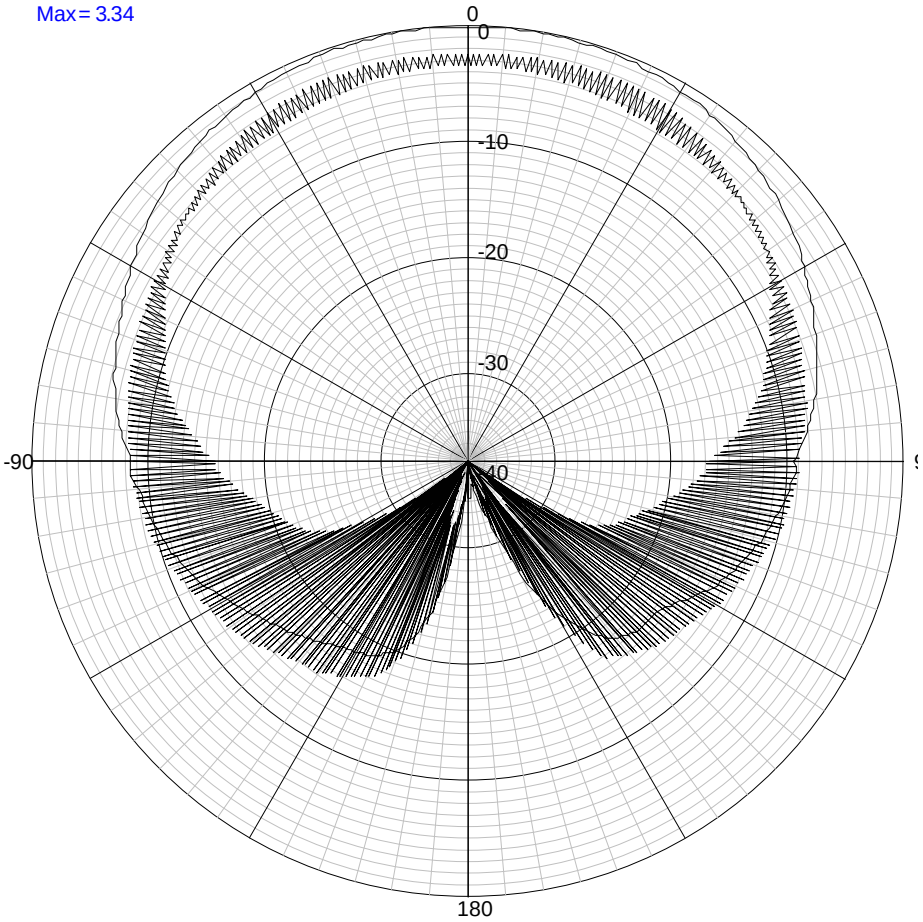
Rotating Linear (E-Cut)



Rotating Linear (H-Cut)



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Azimuth Cuts @ 1.227 GHz on 3.5 " Dia. Ground Plane

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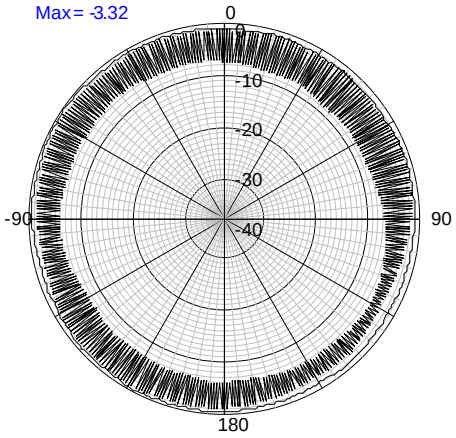
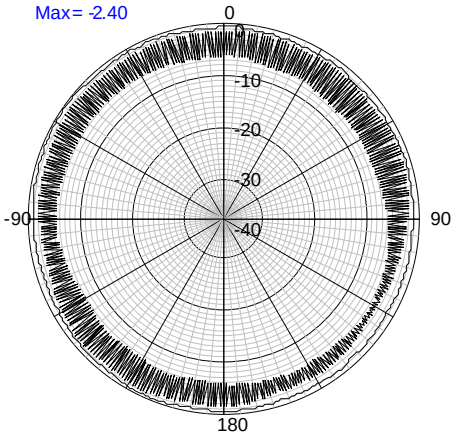
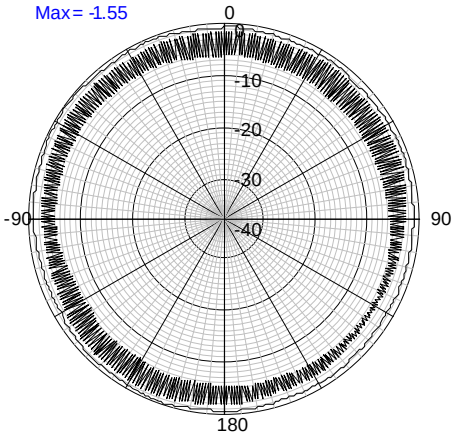
El = 10 deg



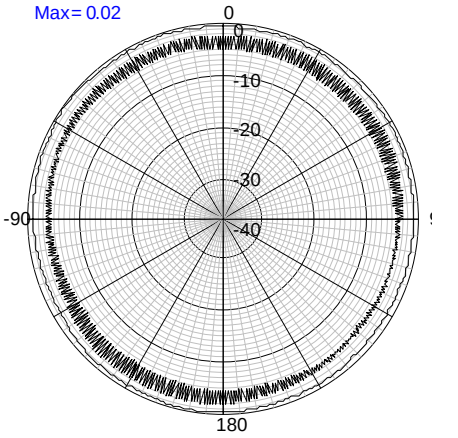
El = 15 deg



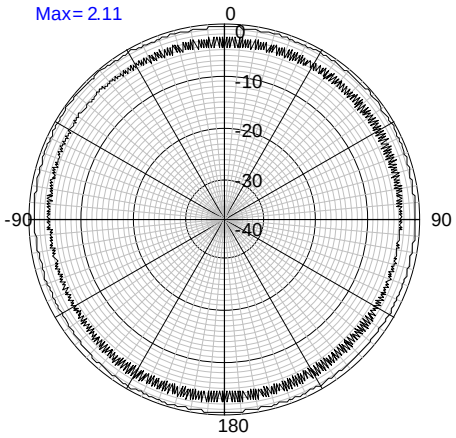
El = 20 deg



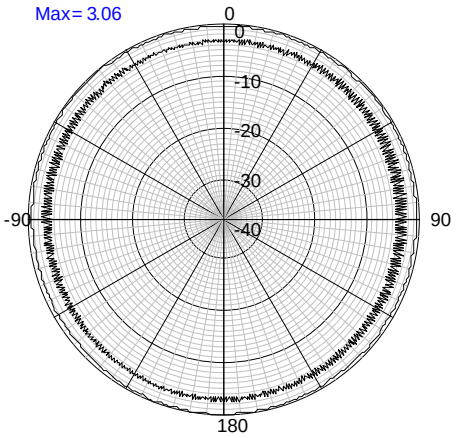
El = 30 deg



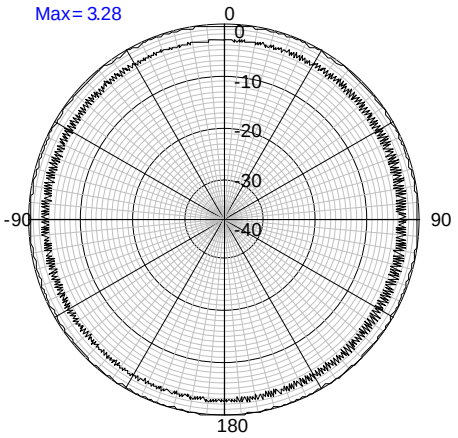
El = 45 deg



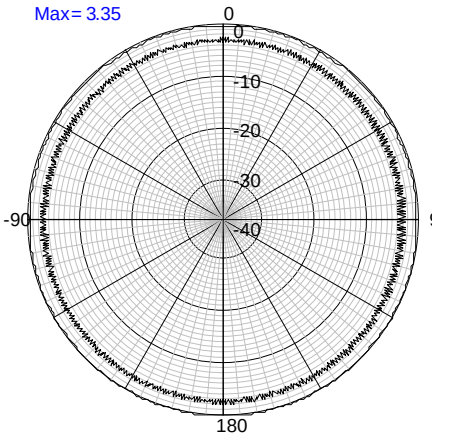
El = 60 deg



El = 70 deg



El = 80 deg



Radiation Pattern of L1/L2 GPS Antenna:
E/H Elevation Cuts @ 1.575 GHz on 16” Dia. Ground Plane

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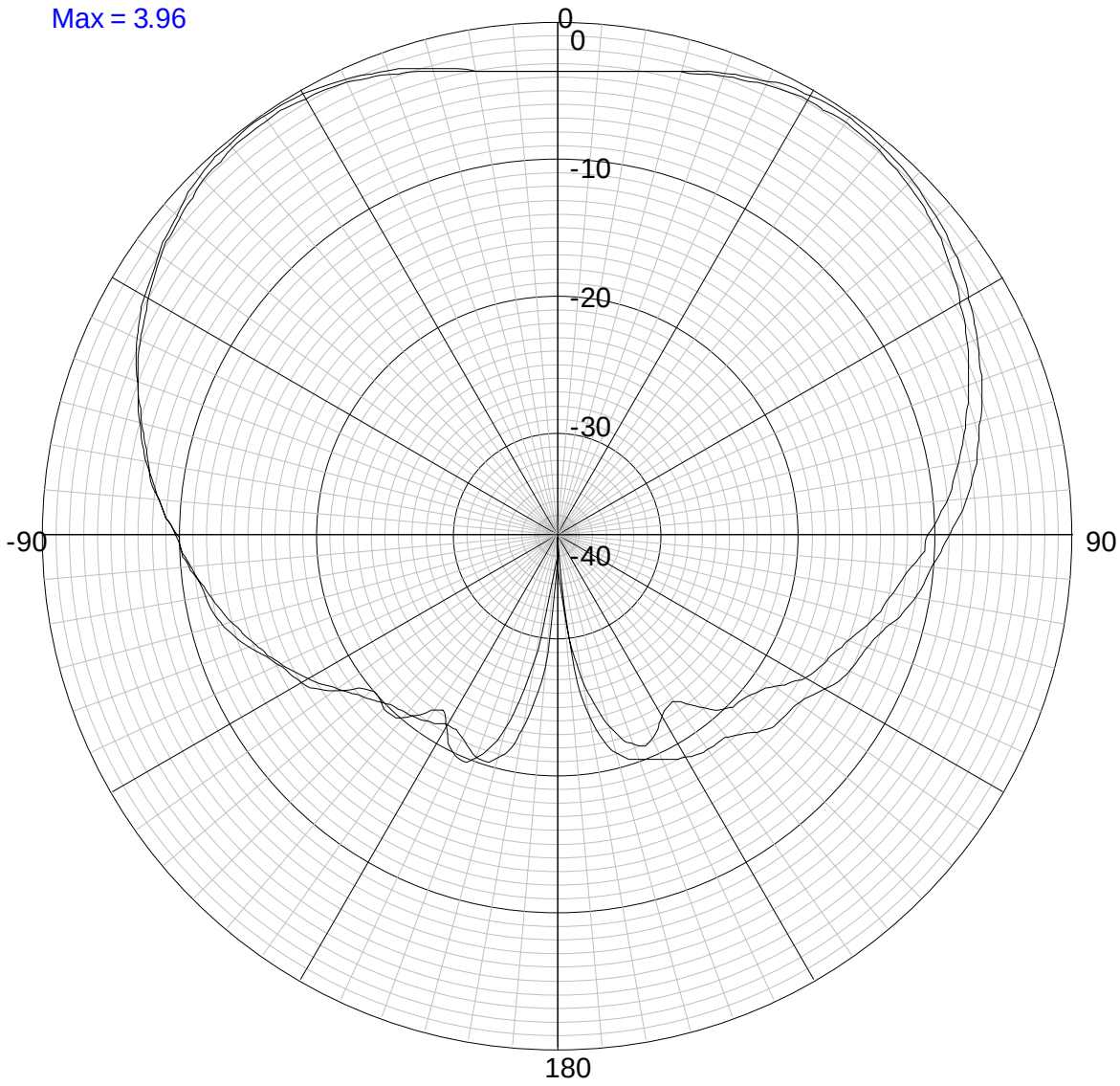
Co-Pol - Amp



Radiation Pattern of L1/L2 GPS Antenna:
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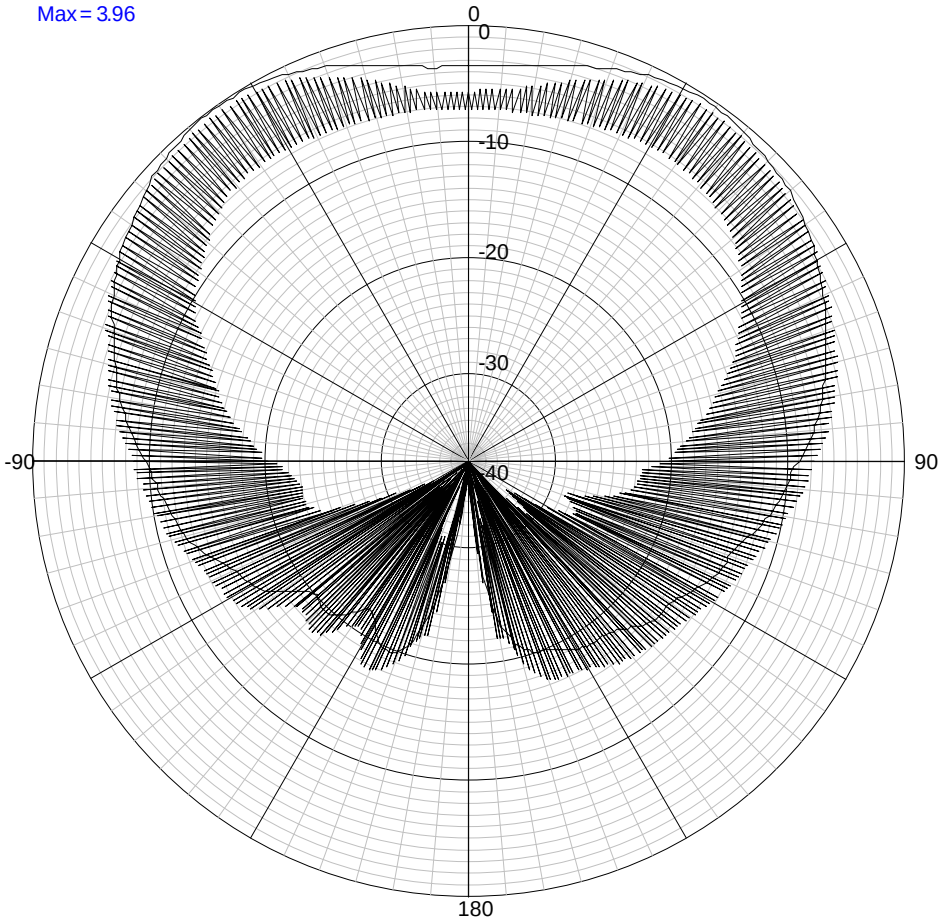
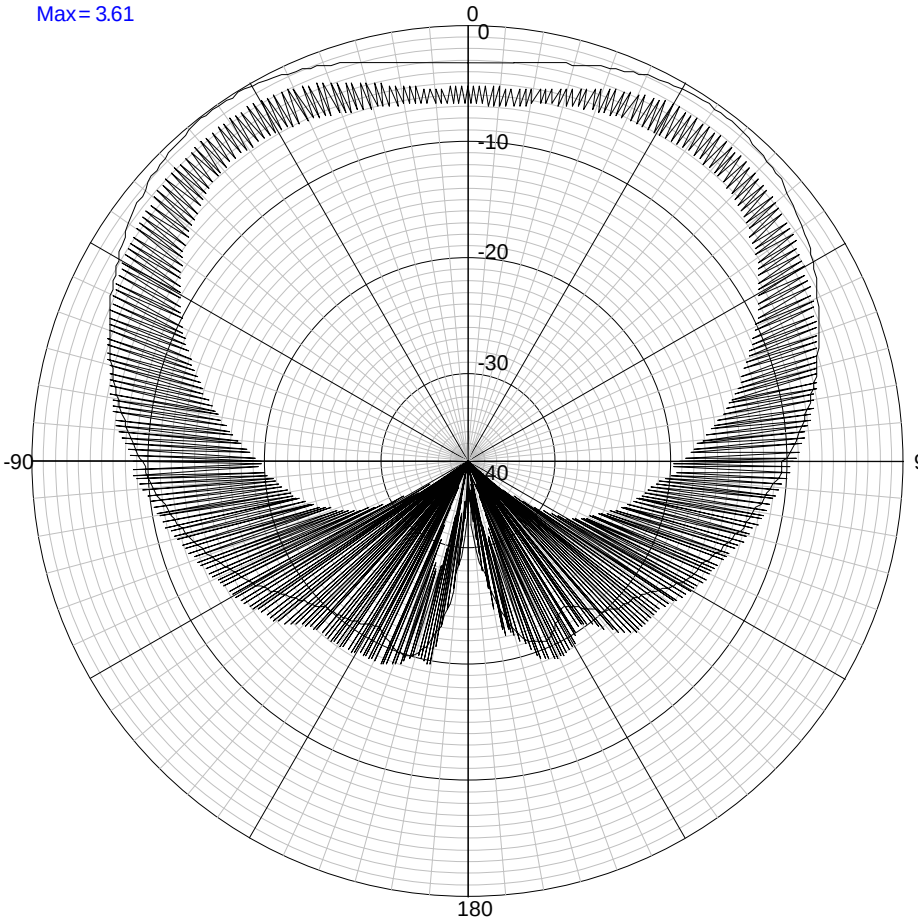
Rotating Linear (E-Cut)



Rotating Linear (H-Cut)



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Azimuth Cuts @ 1.575 GHz on 16” Dia. Ground Plane

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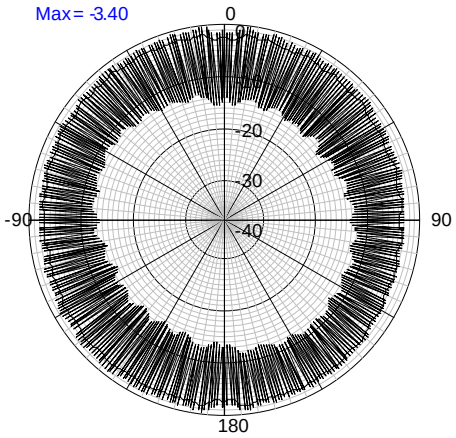
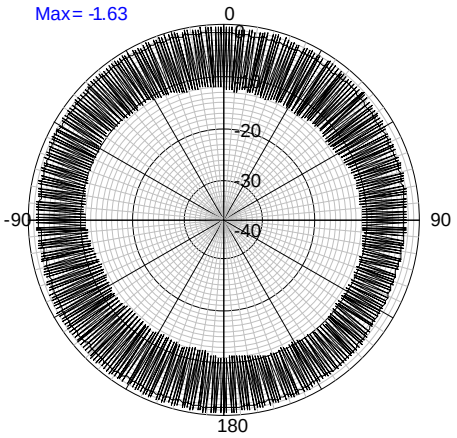
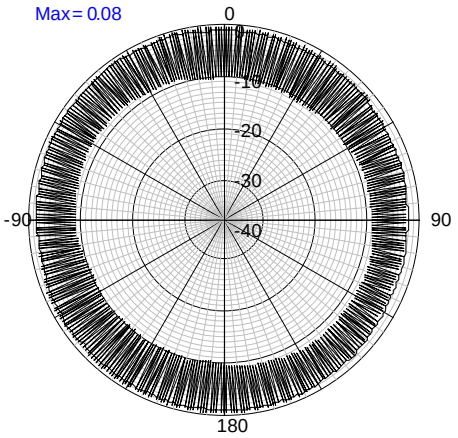
El = 0 deg



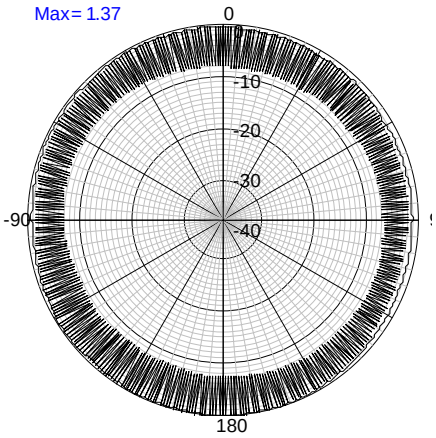
El = 10 deg



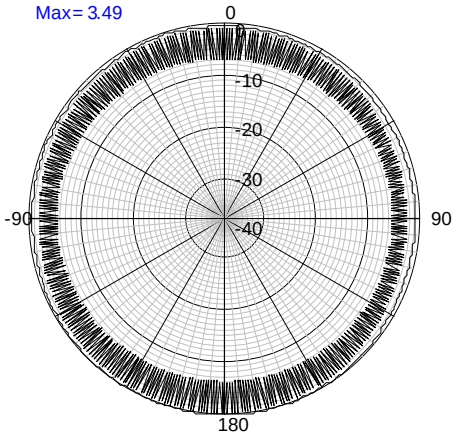
El = 20 deg



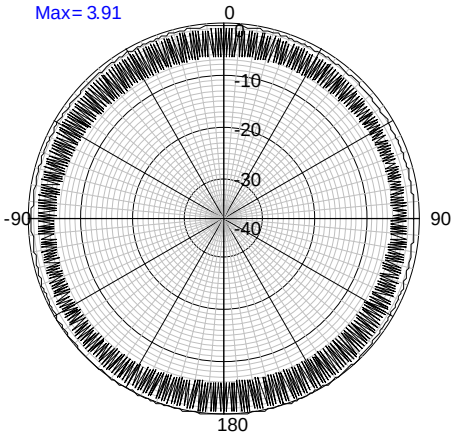
El = 30 deg



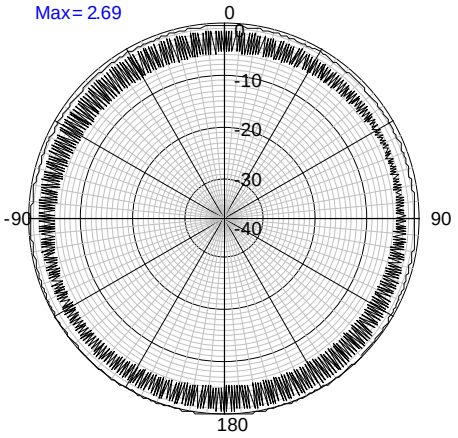
El = 45 deg



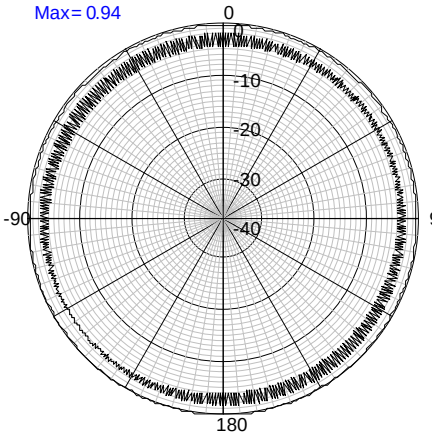
El = 60 deg



El = 70 deg



El = 80 deg



Radiation Pattern of L1/L2 GPS Antenna:
E/H Elevation Cuts @ 1.227 GHz on 16” Dia. Ground Plane

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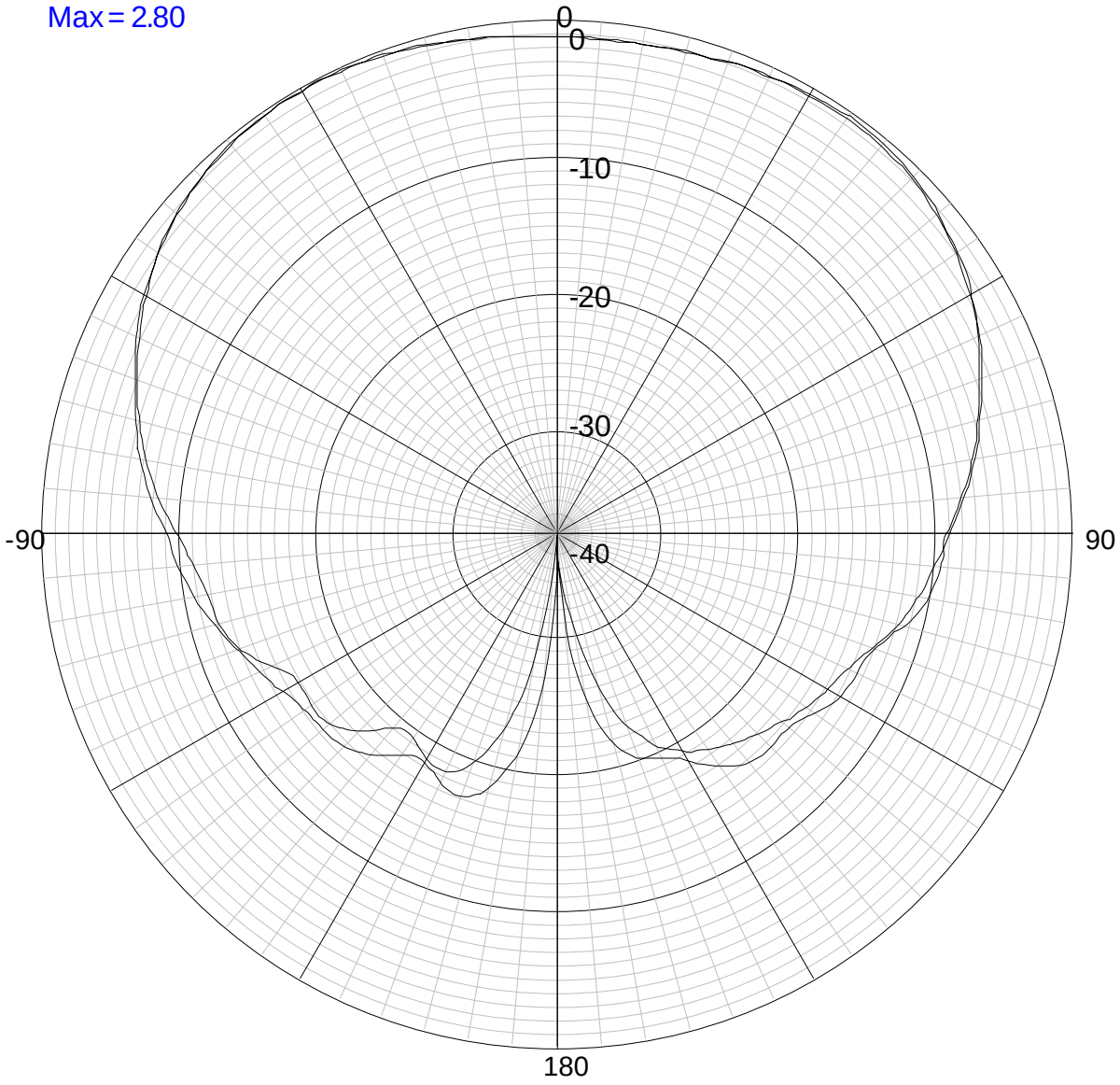
Co-Pol - Amp



Radiation Pattern of L1/L2 GPS Antenna:
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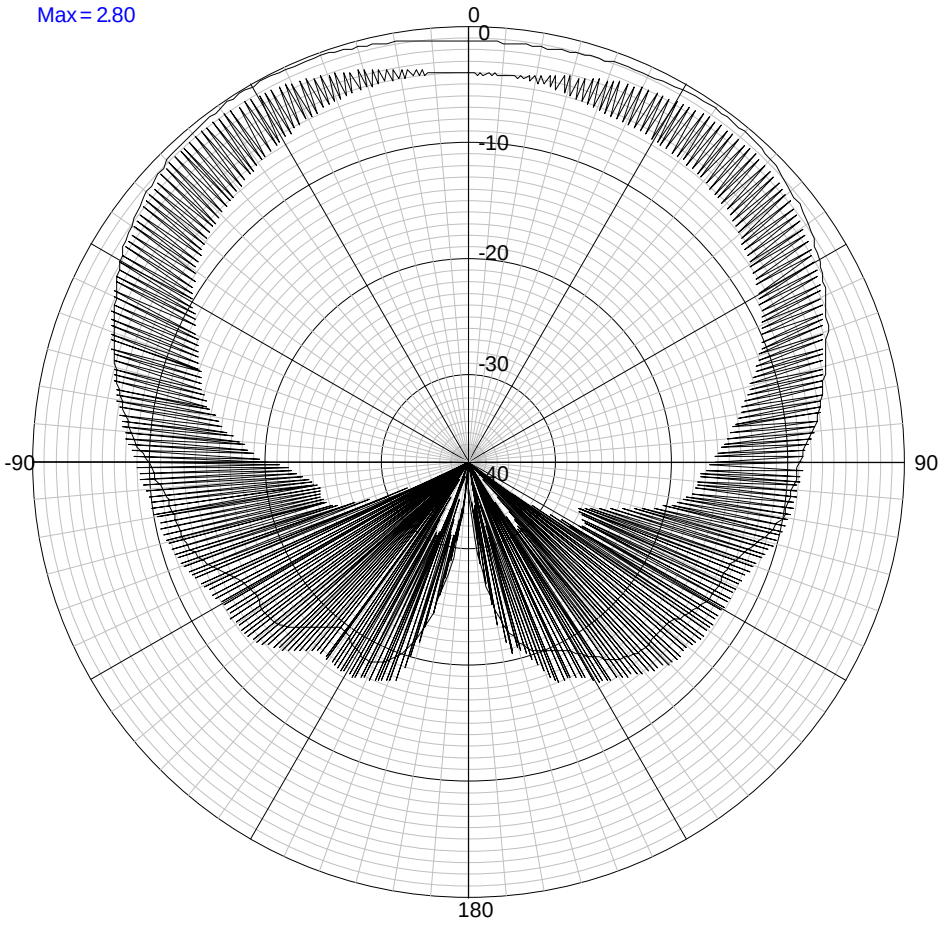
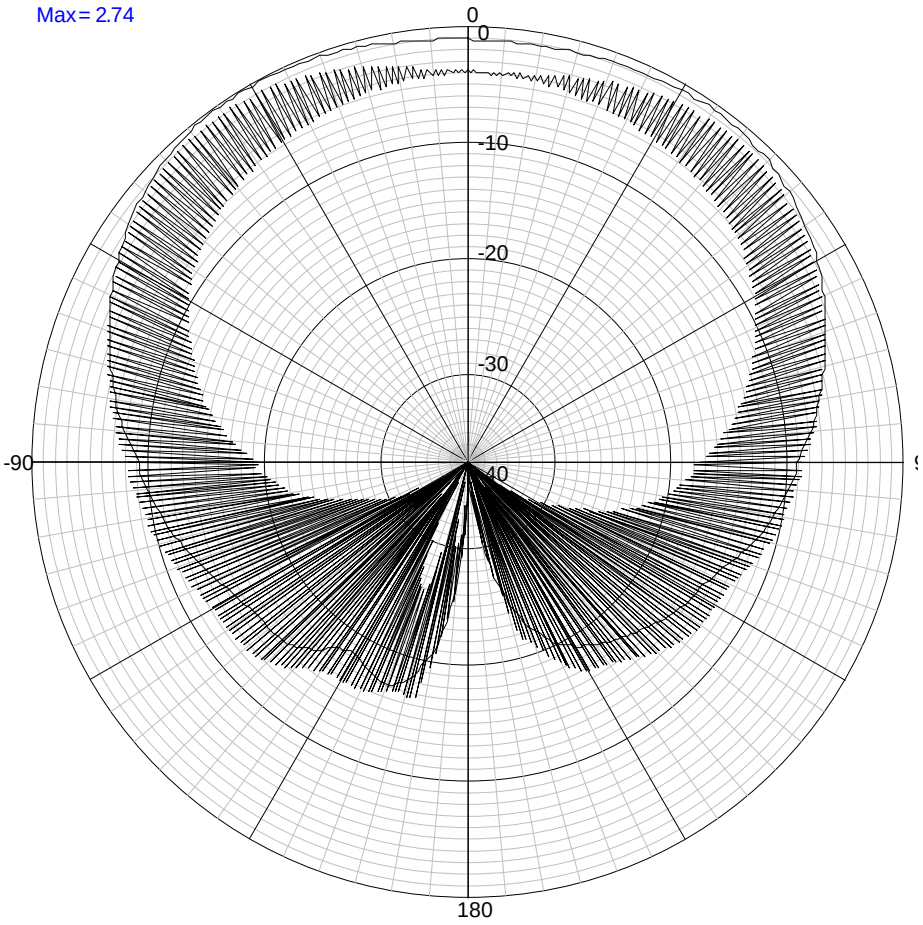
Rotating Linear (E-Cut)



Rotating Linear (H-Cut)



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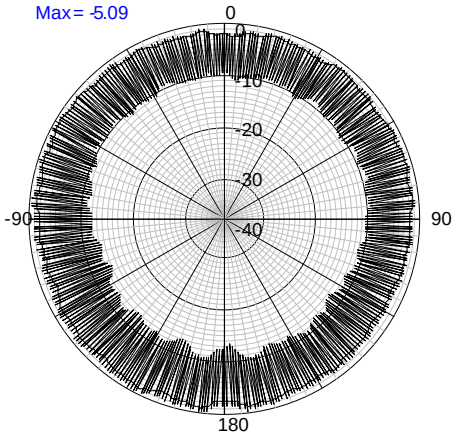
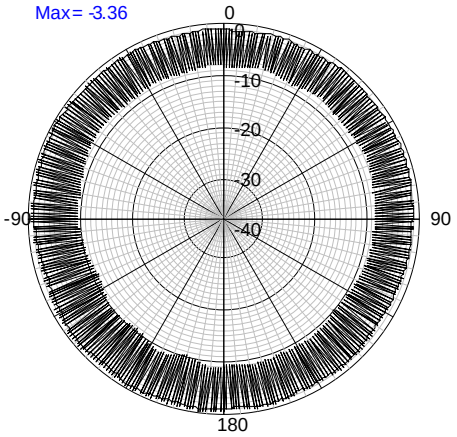
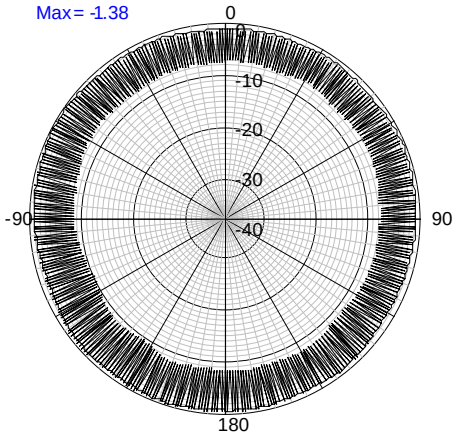
El = 0 deg



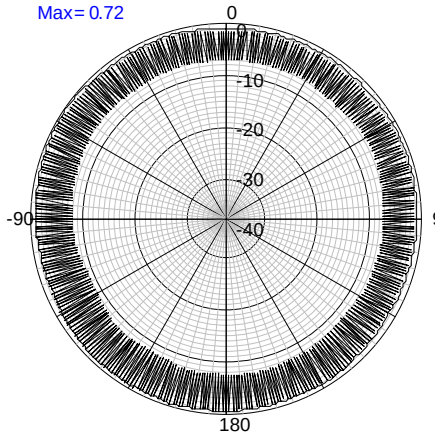
El = 10 deg



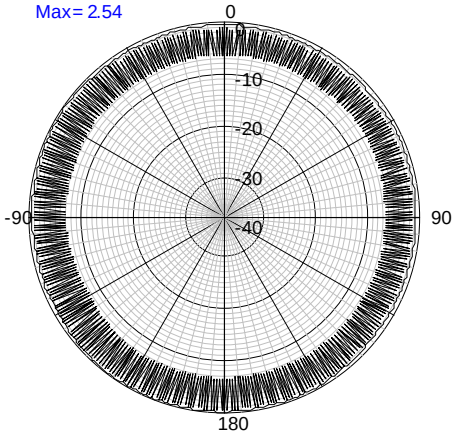
El = 20 deg



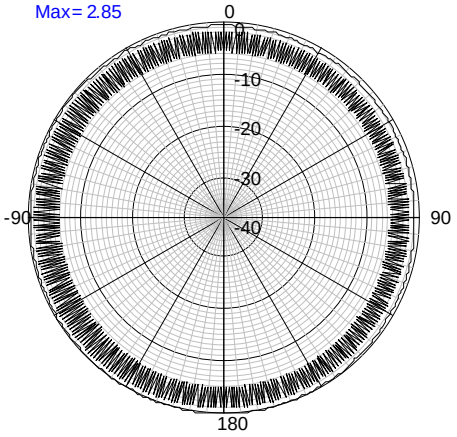
El = 30 deg



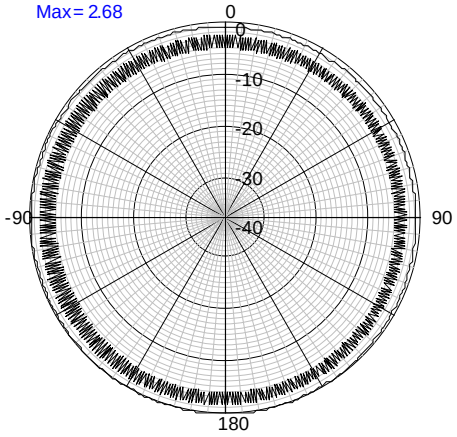
El = 45 deg



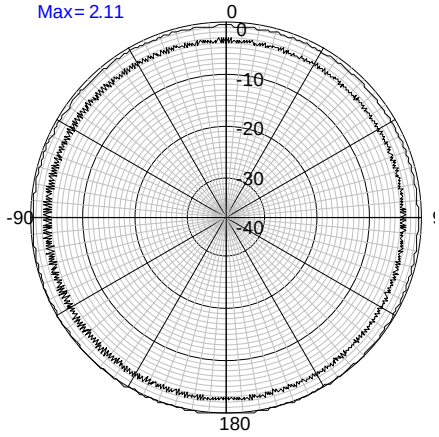
El = 60 deg



El = 70 deg



El = 80 deg



Radiation Pattern of L1/L2 GPS Antenna:
E/H Elevation Cuts @ 1.575 GHz on 4 ft Dia. Ground Plane

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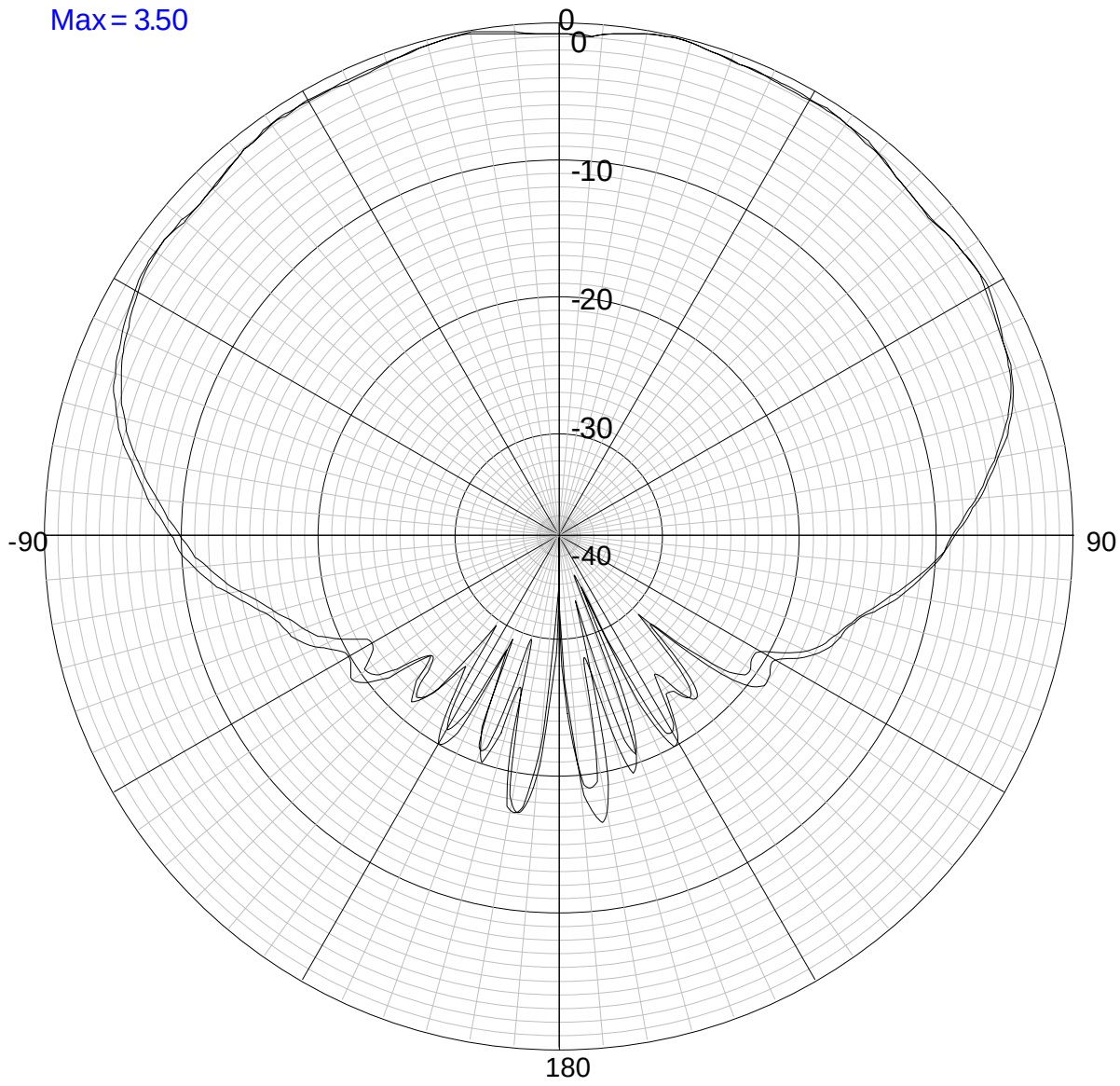
Co-Pol - Amp



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Elevation Cuts @ 1.575 GHz on 4 ft Dia. Ground Plane

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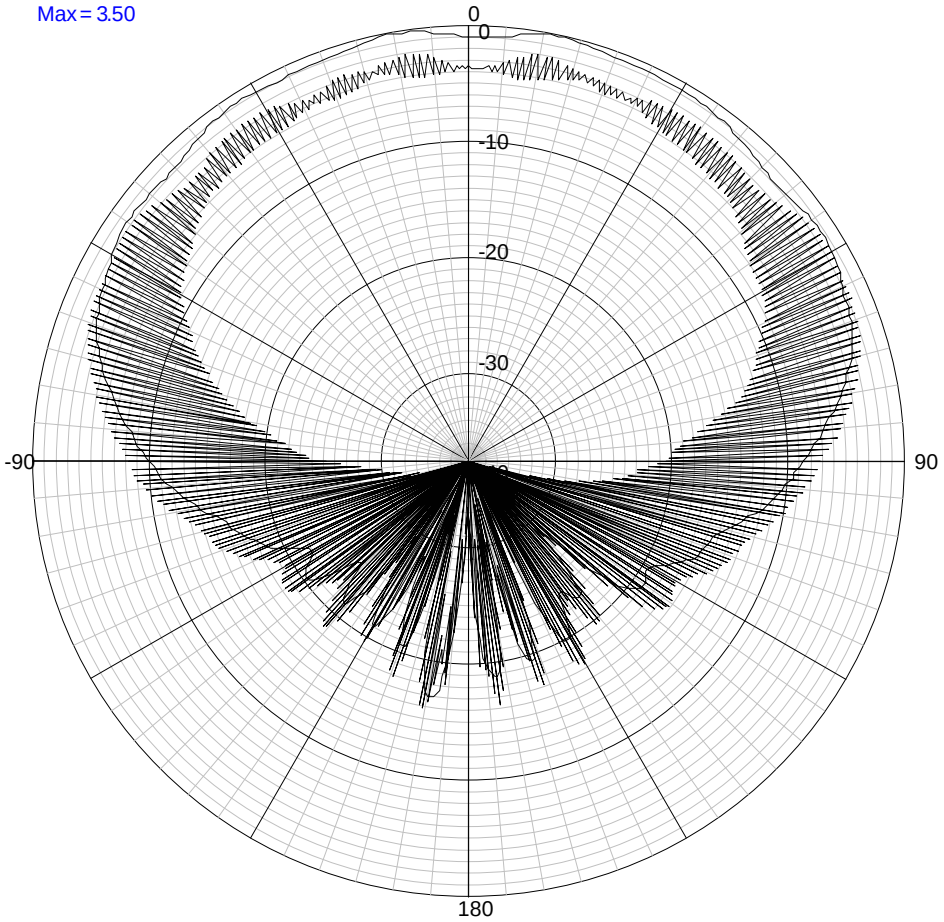
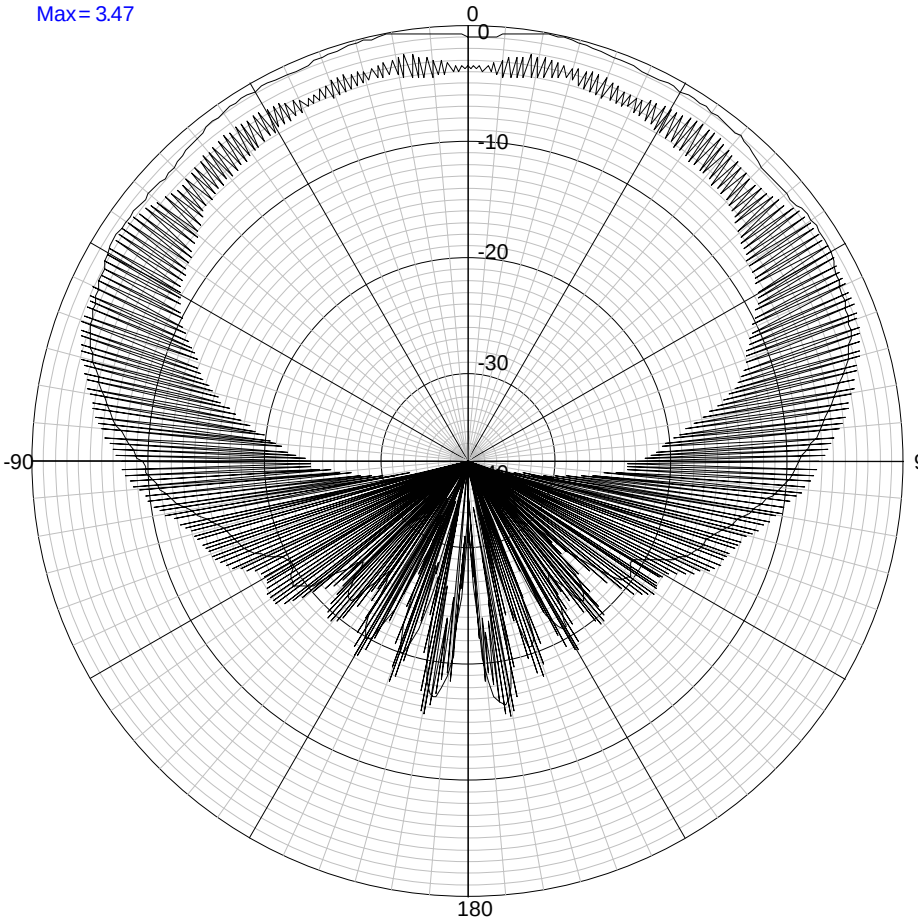
Rotating Linear (E-Cut)



Rotating Linear (H-Cut)



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Azimuth Cuts @ 1.575 GHz on 4 ft Dia. Ground Plane

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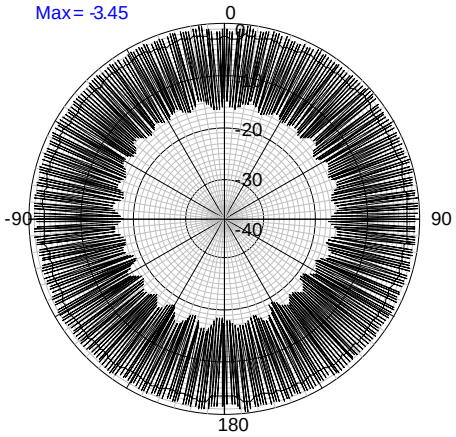
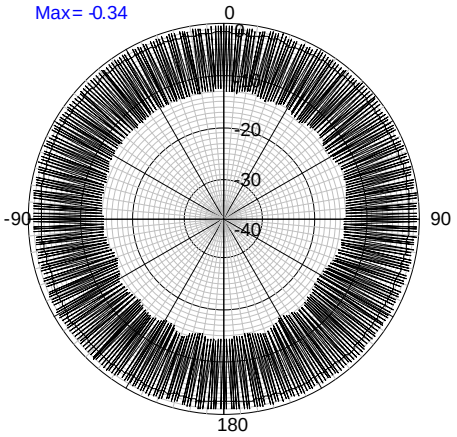
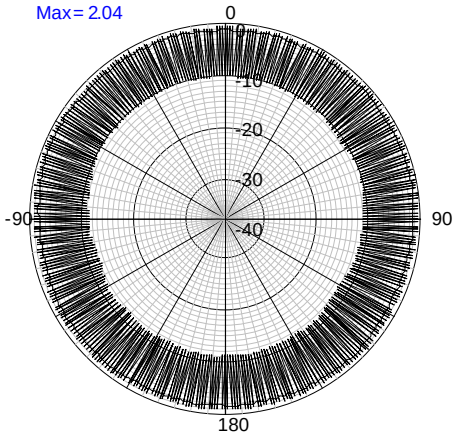
El = 0 deg



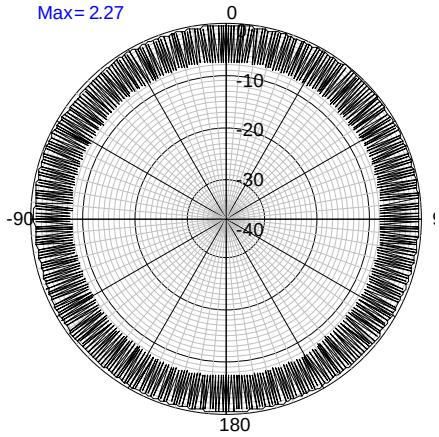
El = 10 deg



El = 20 deg



El = 30 deg



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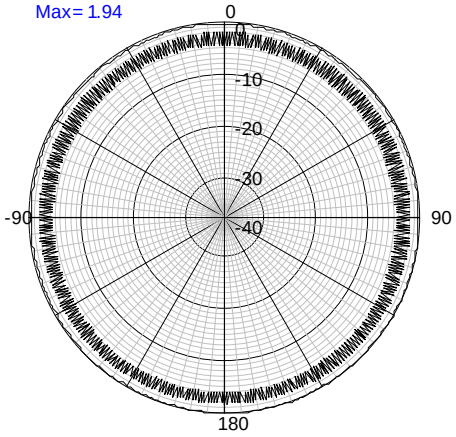
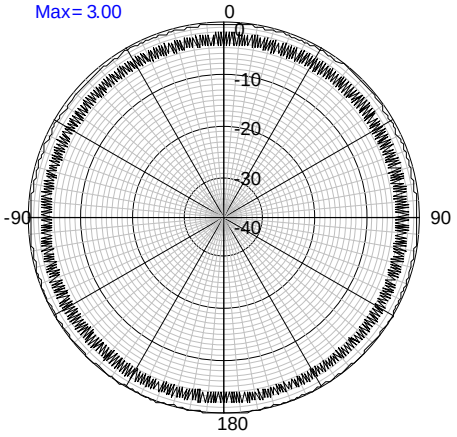
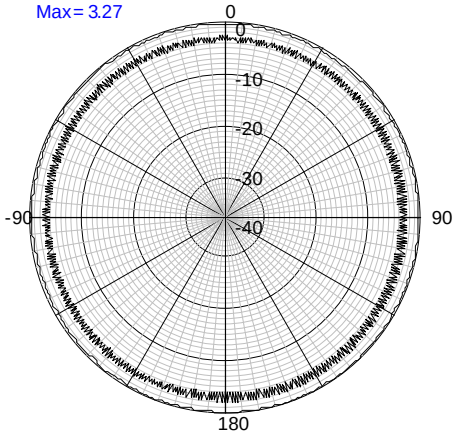


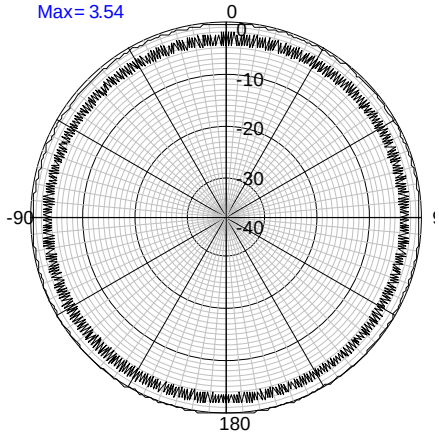
El = 60 deg



El = 70 deg



El = 80 deg



Radiation Pattern of L1/L2 GPS Antenna:
E/H Elevation Cuts @ 1.227 GHz on 4 ft Dia. Ground Plane

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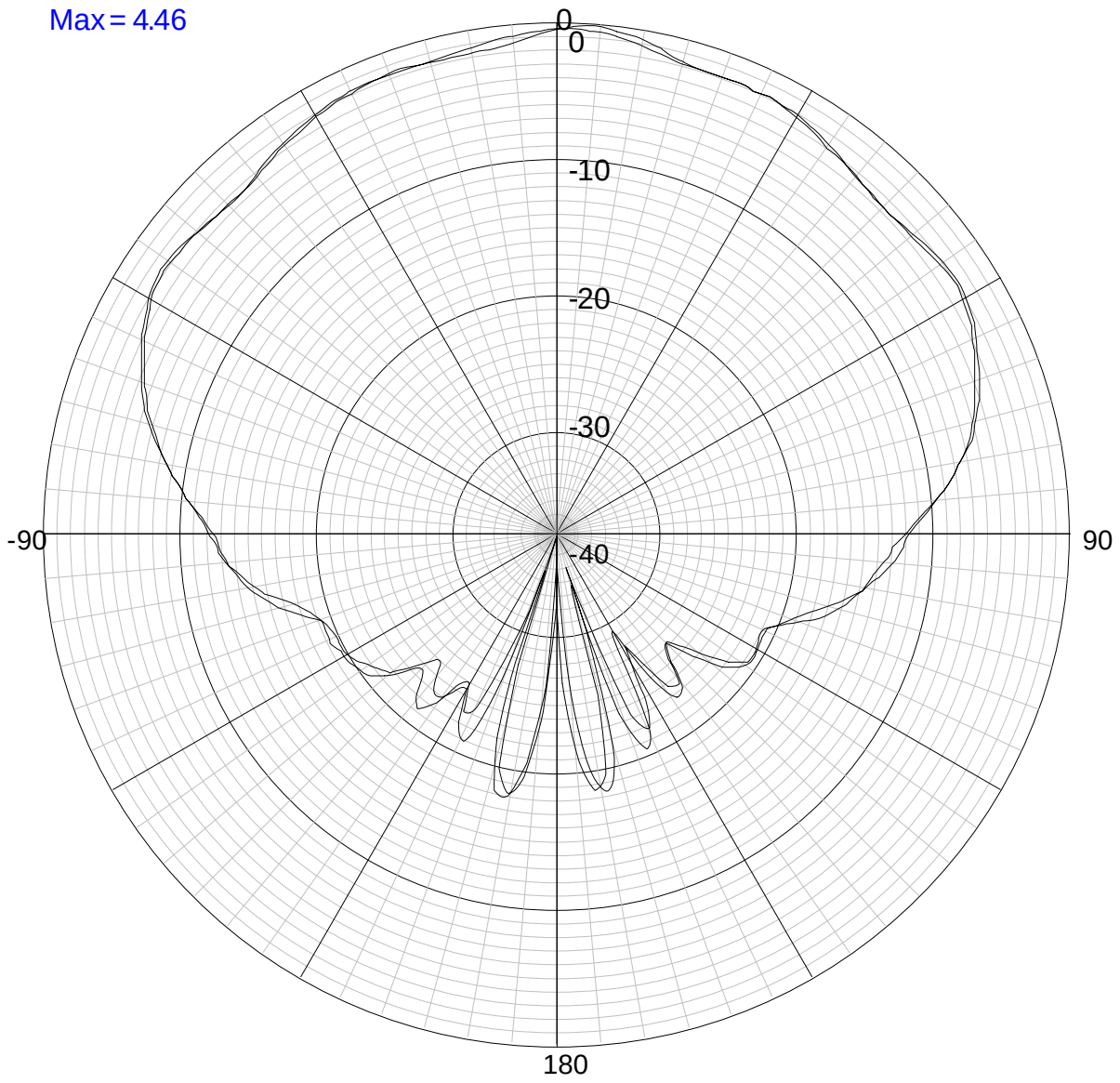
Co-Pol - Amp



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Elevation Cuts @ 1.227 GHz on 4 ft Dia. Ground Plane

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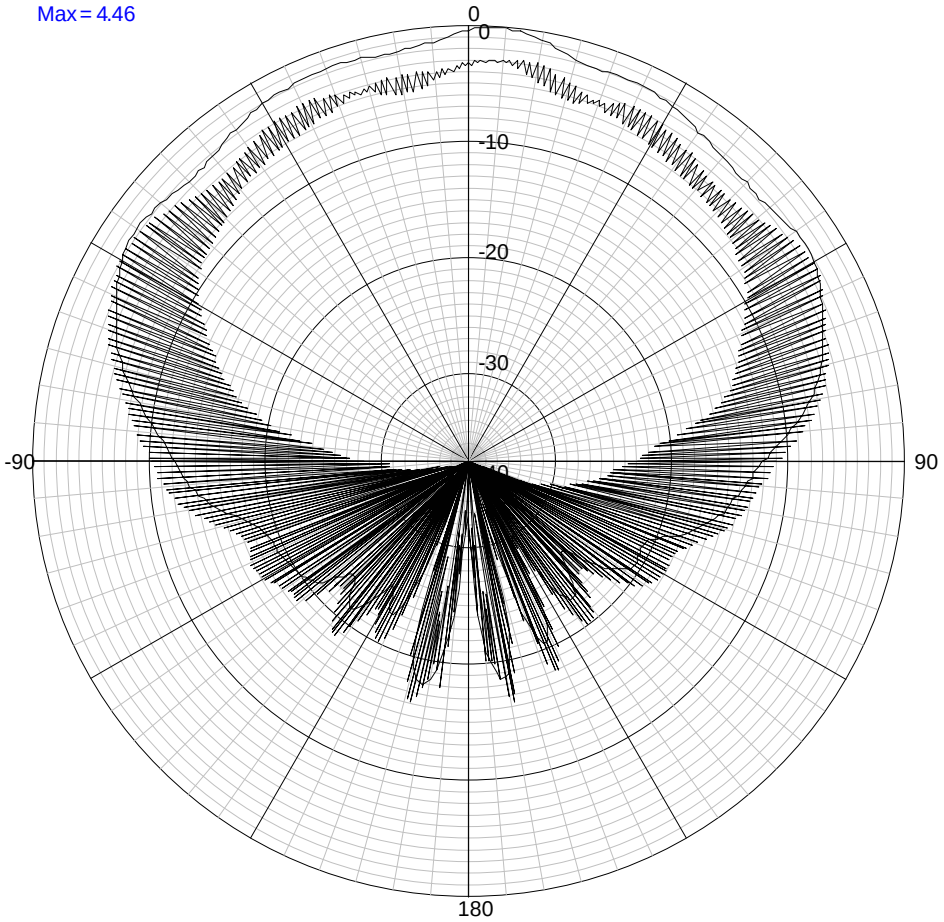
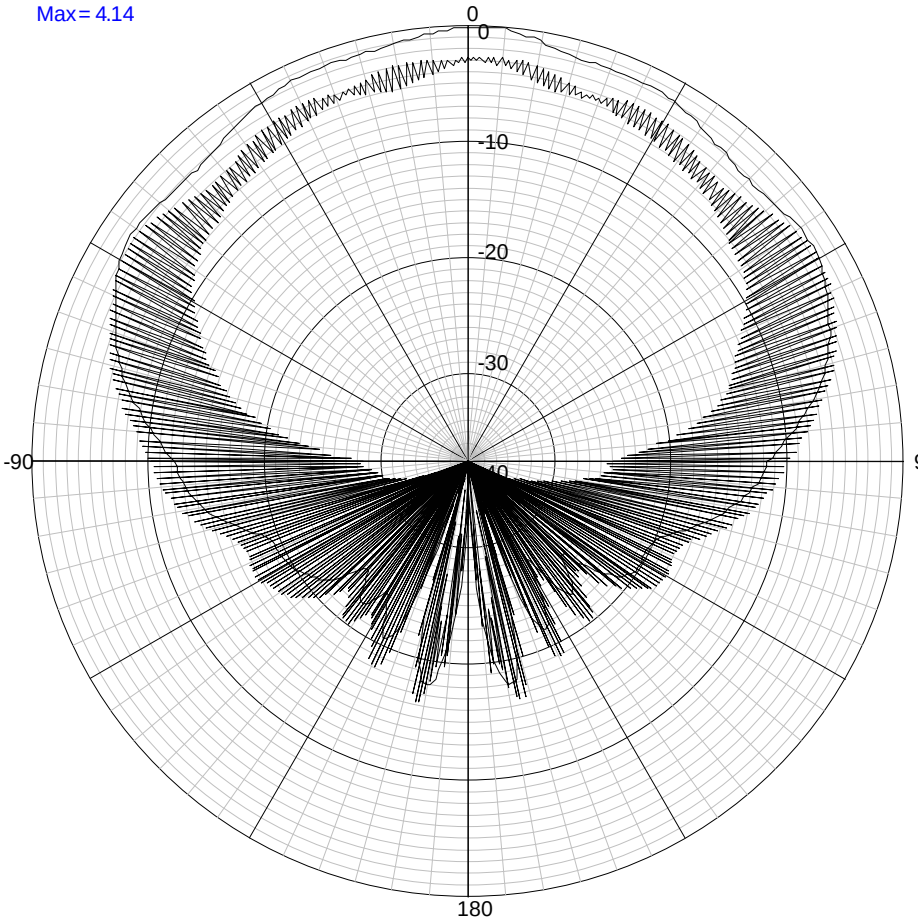
Rotating Linear (E-Cut)



Rotating Linear (H-Cut)



Radiation Pattern of L1/L2 GPS Antenna:
Gain And Axial Ratio Azimuth Cuts @ 1.227 GHz on 4 ft Dia. Ground Plane

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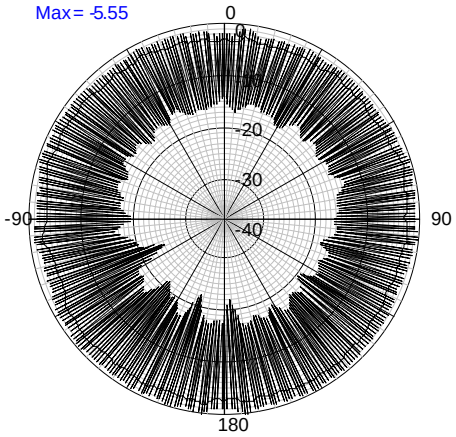
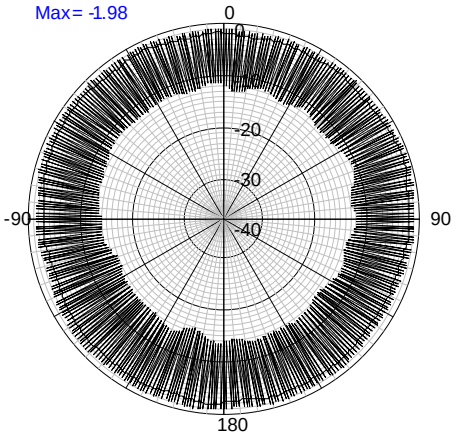
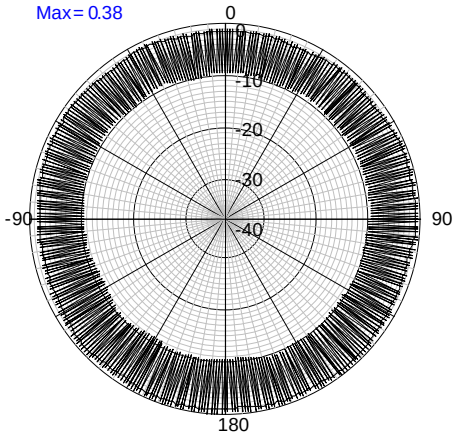
El = 0 deg



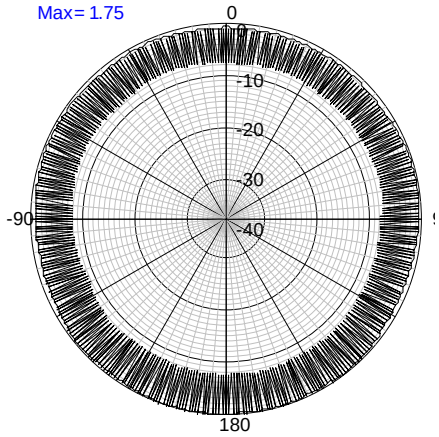
El = 10 deg



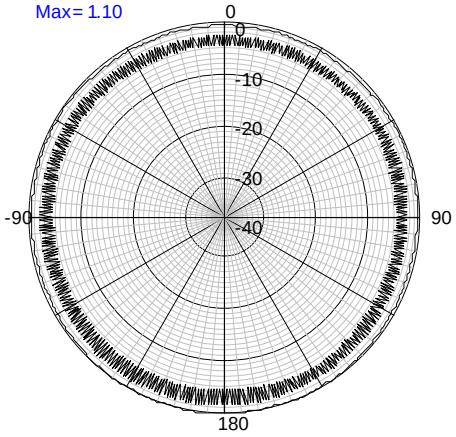
El = 20 deg



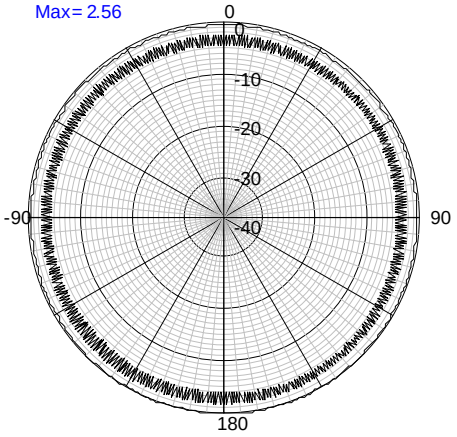
El = 30 deg



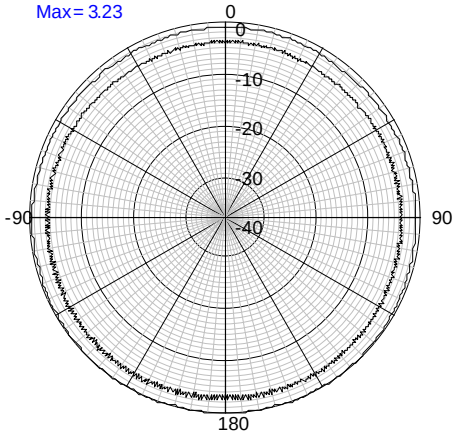
El = 45 deg



El = 60 deg



El = 70 deg



El = 80 deg