

Symbol/Variable with value or equation

Symbols

Geometry

Source/Load

Freq./Ground

Others

Symbols

Nr Symbols and equations

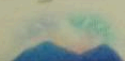
Nr	Symbols and equations	comment
1	lambda=1	

Scaling

☒ Meters ☐ Feet ☐ Inch ☐ Wave-length ☐ Custom Factor 1.0



Type here to search



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EXAMPLE1.NEC - 4nec2 Edit

File Cell Rows Selection Options

End-1: Y coordinate

Symbols

Geometry (Scaling=Meters)

Geometry

Source/Load

Freq./Ground

Others

Nr	Type	Tag	Segs	X1	Y1	Z1	X2	Y2	Z2	Radius				comment
1	Wire	1	21	0	0	-0.25	0	0	0.25	0.0001				
2	Wire	2	21	0	-0.12	-0.2625	0	-0.12	0.2625	0.0001				Wire 1, 9 segments,
3	Wire	3	21	0	0.12	-0.2375	0	0.12	0.2375	0.0001				Wire 1, 9 segments,
														Wire 1, 9 segments,

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Standard Voltage source (Peak value)

Symbols			Geometry			Source/Load				Freq./Ground		Others	
Source(s)													
Nr	Type	Tag	Seg	(opt)	Real	Imag	Magn	Phase	(norm)		comment		
1	Voltage-src	1	11	0	1	0	1	0	0		Voltage source (1+j0) at wire 1 seg		

☒ Show source

Symbols

Geometry

Source/Load

Freq./Ground

Others

Frequency

Frequency Mhz

Nr steps ☐ Sweep

Stepsize

Environment

Ground / Free-space

☐ Connect wire(s) for Z=0 to ground

Main ground

Ground type

Conductivity

Diel constant

☐ Use ground-screen

☐ Use second ground

Ground screen

Nr of radials

Radial length mtr

Wire radius mm

Second ground

Ground type

Conductivity

Diel constant

Distance mtr

Depth mtr

☐ Circular boundary

☐ Perpendicular to Y-axis



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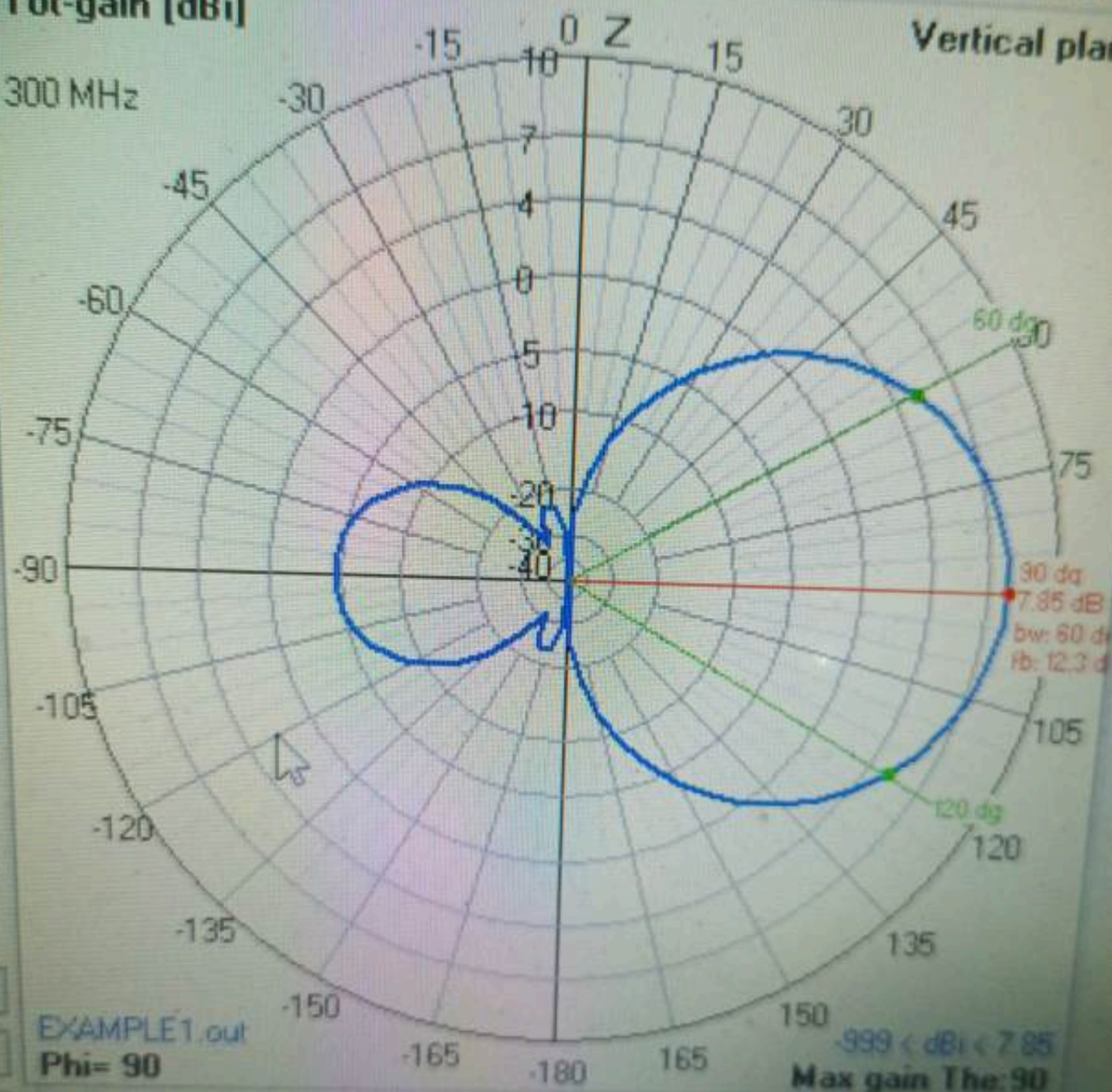
Pattern (F4)

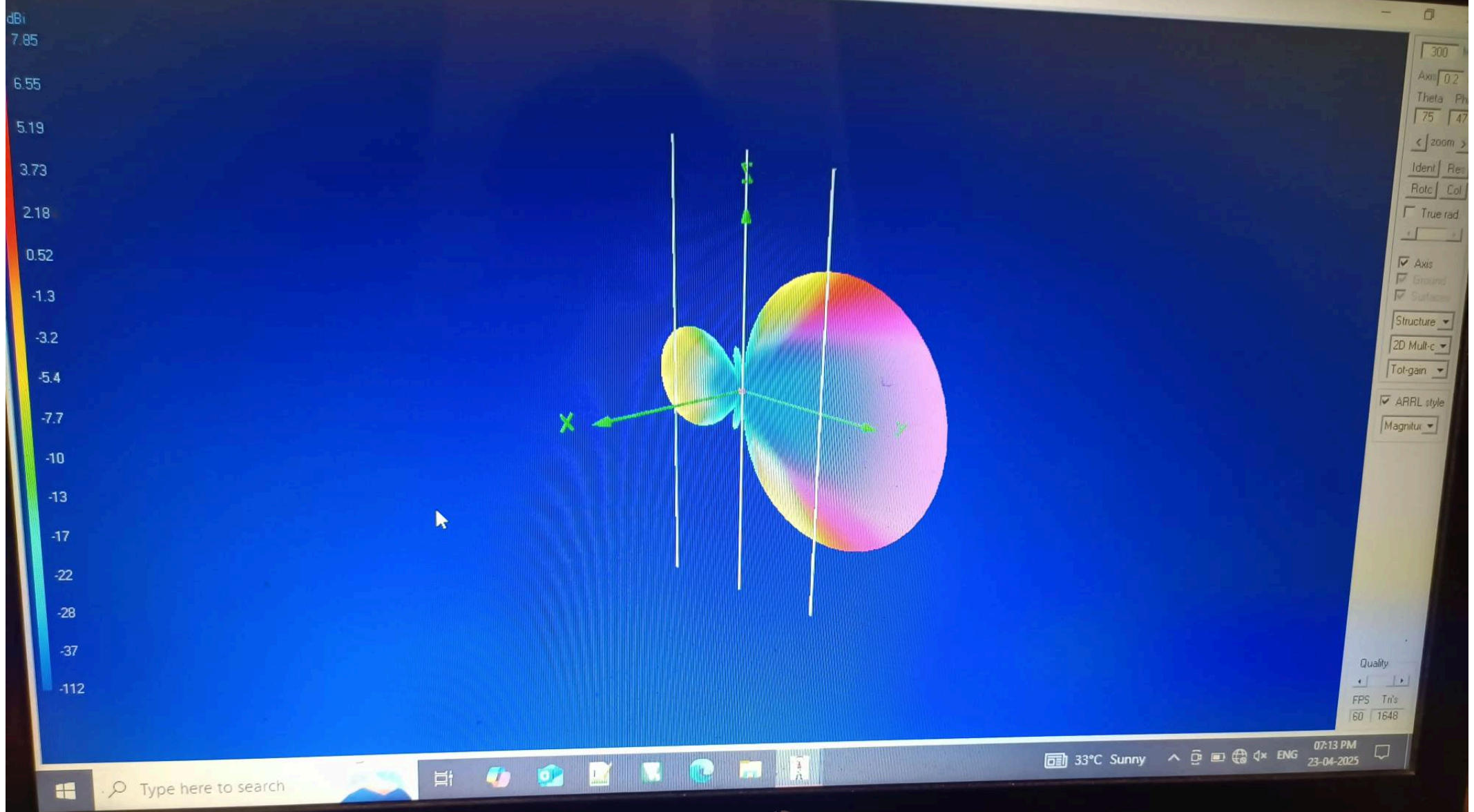
Show Far field Near field Compare Transfer FFtab Plot

Tot-gain [dBi]

300 MHz

Vertical plane





End-2: Z coordinate

Symbols				Geometry				Source/Load			Freq./Ground		Others	
Geometry (Scaling=Meters)				Geometry				Source/Load			Freq./Ground		Others	
Nr	Type	Tag	Segs	X1	Y1	Z1	X2	Y2	Z2	Radius				comment
1	Wire	1	21	0	0	-0.25	0	0	0.25	0.0001				
2	Wire	2	21	0	-0.12	-0.2625	0	-0.12	0.2625	0.0001				Wire 1, 9 segments.
3	Wire	3	21	0	0.12	-0.225	0	0.12	0.225	0.0001				Wire 1, 9 segments.
4	Wire	4	21	0	0.24	-0.225	0	0.24	0.225	0.0001				Wire 1, 9 segments.
5	Wire	5	21	0	0.36	-0.214	0	0.36	0.214	0.0001				Wire 1, 9 segments.
6														Wire 1, 9 segments.
7														



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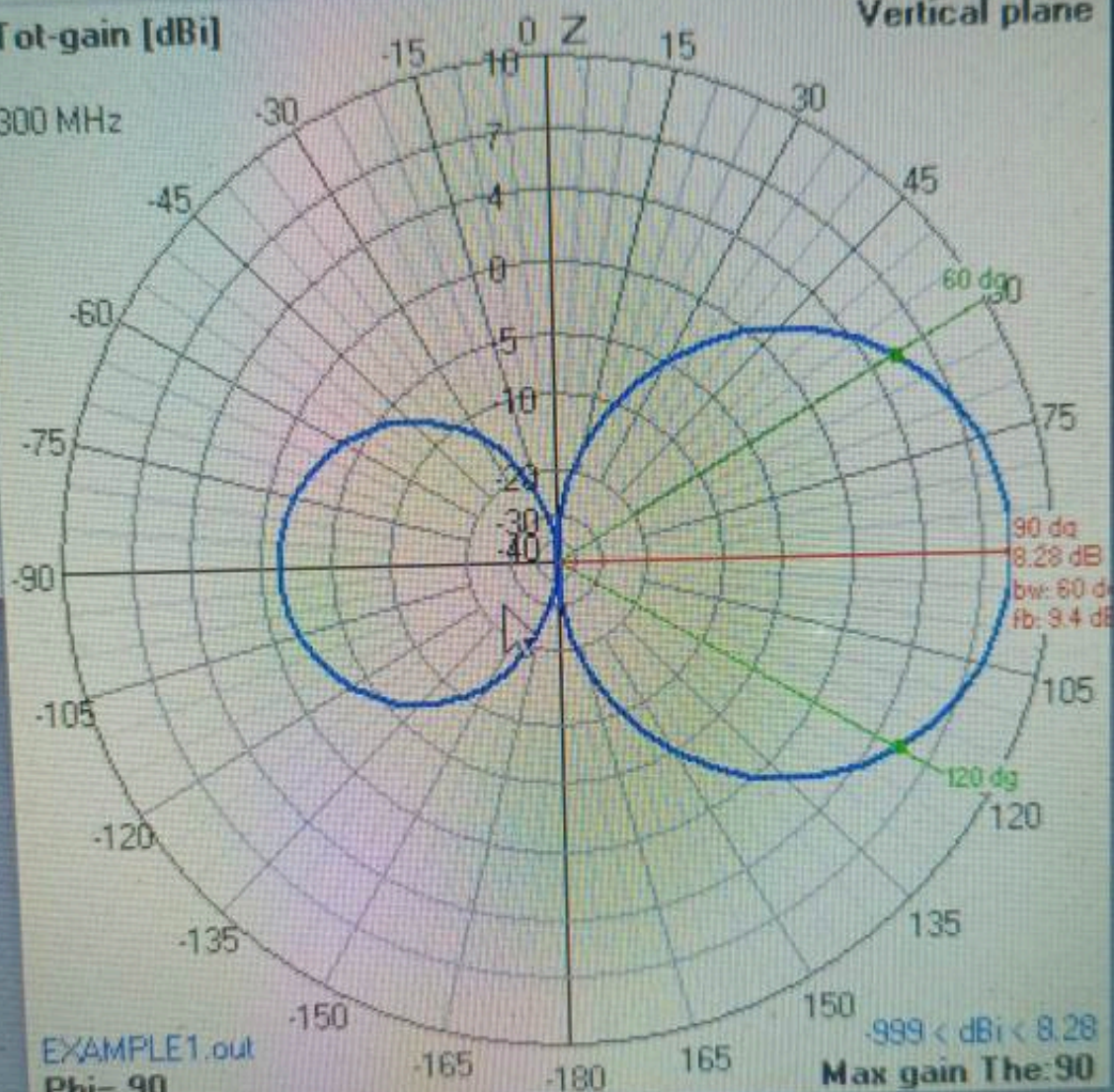
Pattern (F4)

Show Far field Near field Compare Transfer Fftab Plot

Tot-gain [dBi]

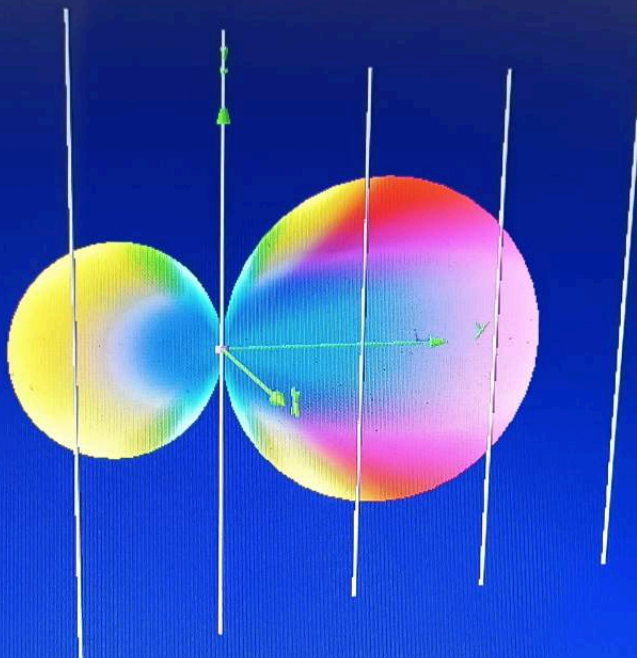
Vertical plane

300 MHz



3D Viewer (F9) [EXAMPLE1.out]

dB
8.28
6.98
5.62
4.16
2.61
0.95
-0.8
-2.8
-4.9
-7.3
-10
-13
-17
-21
-27
-36
-112



300 Mhz

Axis 0.2 mtr

Theta Phi

79 348

< zoom >

Ident Res

Role Col

☐ True rad

< >

☒ Axis

☒ Ground

☒ Surfaces

Structure

2D Mult-c

Tot-gain

☒ ARRL style

Magnitud

Quality

< >

FPS Tr's

60 2352

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23-04-2025

Symbols

Geometry (Scaling=Meters)

Geometry

Source/Load

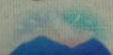
Freq./Ground

Others

Nr	Type	Tag	Segs	X1	Y1	Z1	X2	Y2	Z2	Radius	comment
2	Wire	2	21	0	-0.12	-0.2625	0	-0.12	0.2625	0.0001	Wire 1, 9 segments,
3	Wire	3	21	0	0.12	-0.225	0	0.12	0.225	0.0001	Wire 1, 9 segments,
4	Wire	4	21	0	0.24	-0.225	0	0.24	0.225	0.0001	Wire 1, 9 segments,
5	Wire	5	21	0	0.36	-0.214	0	0.36	0.214	0.0001	Wire 1, 9 segments,
6	Wire	6	21	0	0.48	-0.203	0	0.48	0.203	0.0001	Wire 1, 9 segments,
7	Wire	7	21	0	0.60	-0.193	0	0.60	0.193	0.0001	Wire 1, 9 segments,
8											
9											
10											



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ENG

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23-04-2025

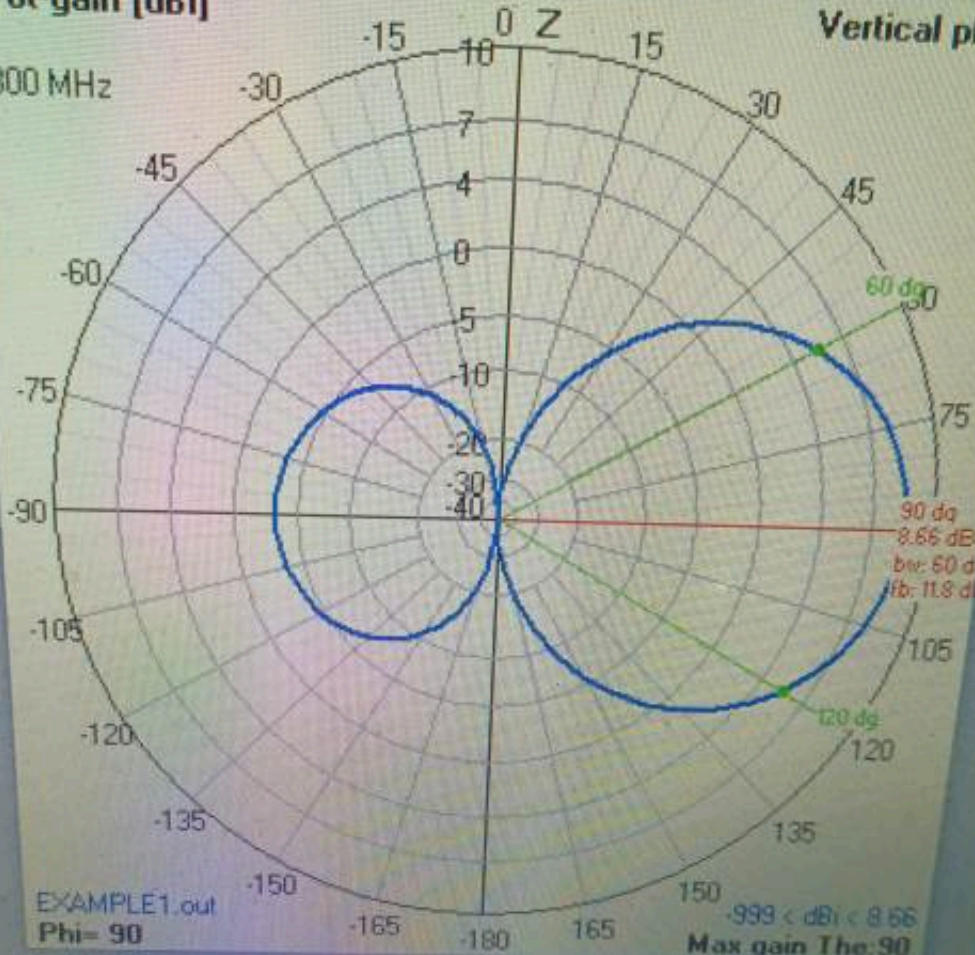
Pattern (F4)

Show Far field Near field Compare Transfer Fftab Plot

Tot-gain [dBi]

Vertical plane

300 MHz

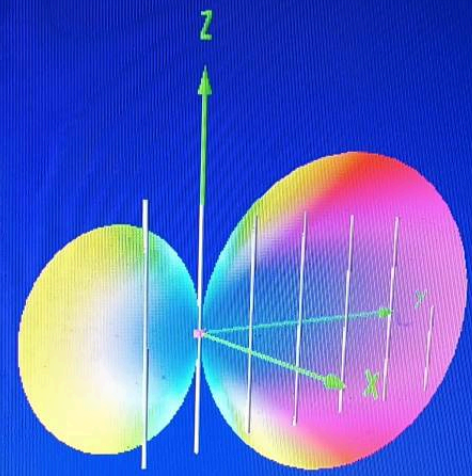


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90 ENG

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23-04-2023



300
Axis 0
Theta 78
zoom
Ident R
Rotc C
True rad
Axis
Gamma
Structure
2D Mult-c
Tot-gain
ARRL style
Magnitude

Quality
FPS 60
Tn's 3056

Type here to search

