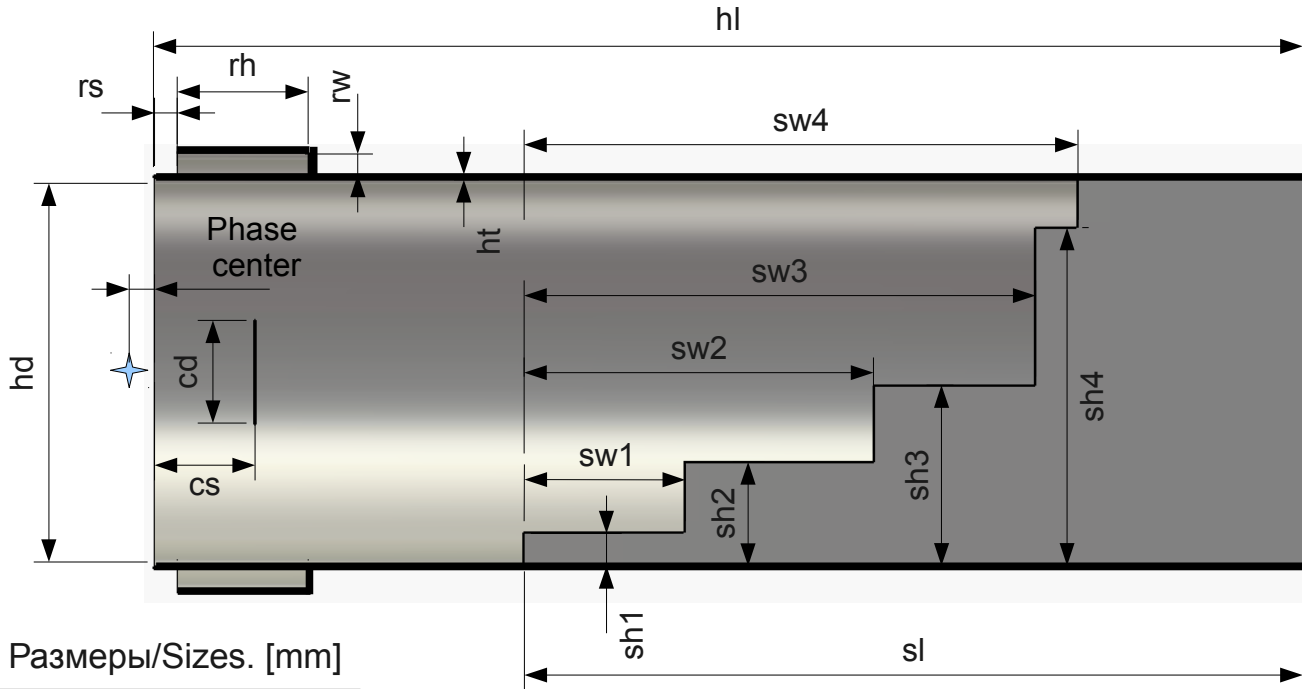


Компактный облучатель с септумом для небольшой прямофокусной параболы.

A small feed with septum for small prime focus dish



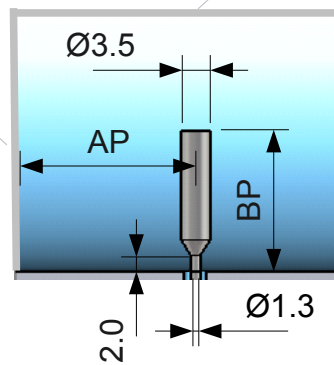
Размеры/Sizes. [mm]

1296MHz	
Feed	
hd	168.0
hl	500.0
ht	< 1,5
rs	10.0
rh	57.0
rw	10.0
Phase center	
cd	45.0
cs	44.0
Septum	
sl	340.0
sh1	14.4
sh2	44.8
sh3	78.2
sh4	146.4
sw1	69.6
sw2	151.8
sw3	221.6
sw4	239.7

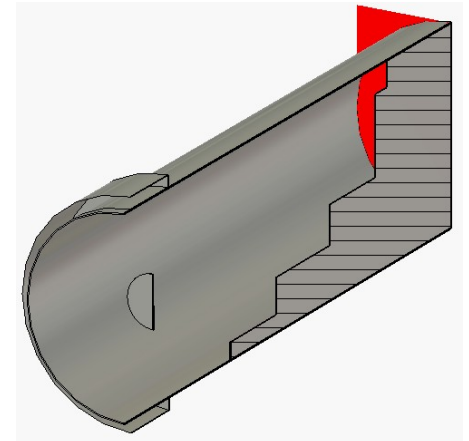
Зонд/Probe

Feed 3D view

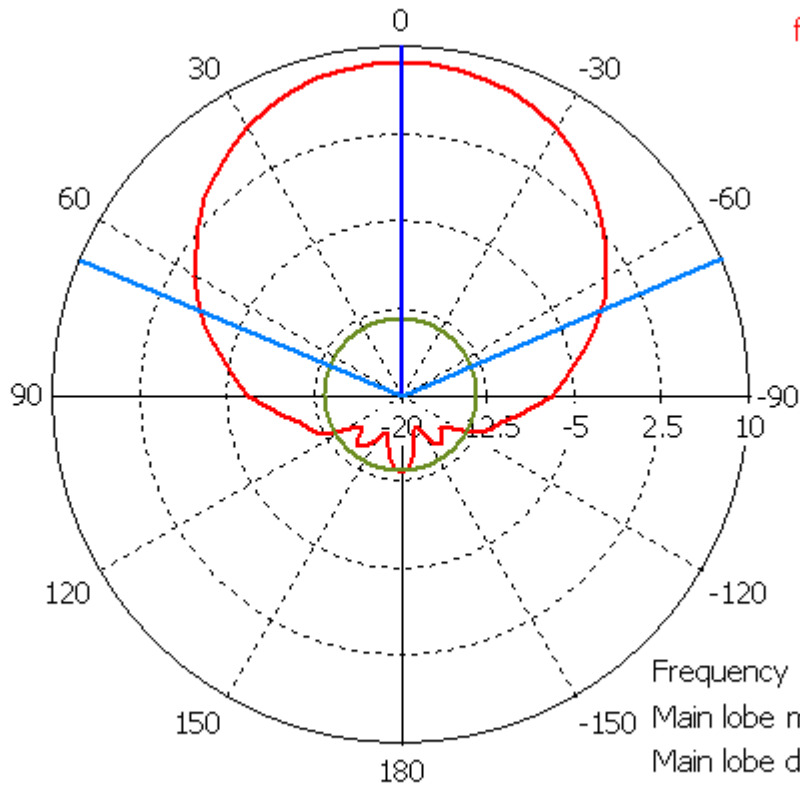
Rear wall Septum



Freq	AP	BP
1296	53,9	48,7



Directivity Abs (Phi=90)

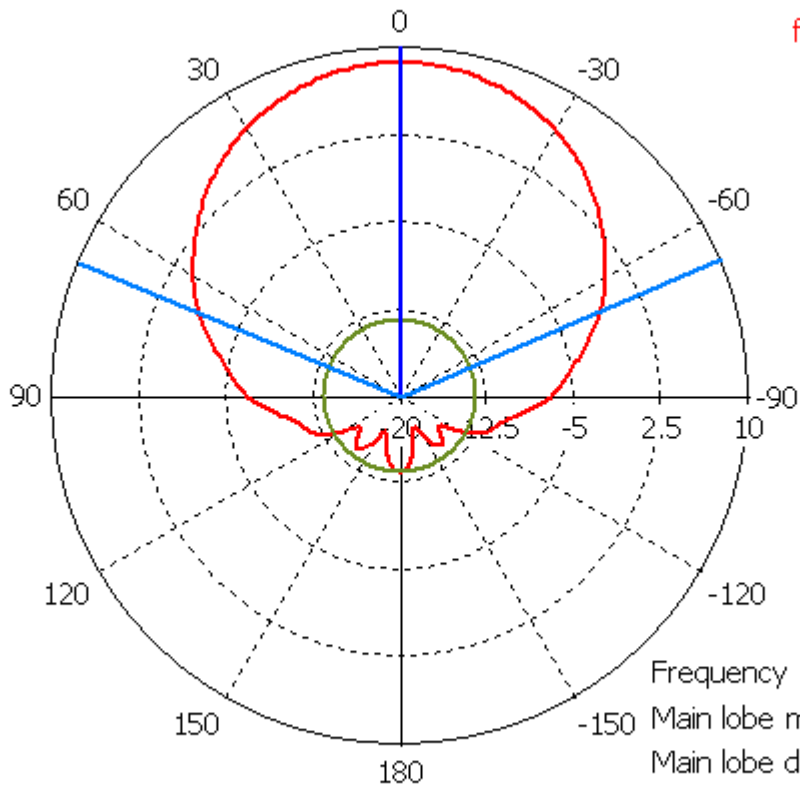


farfield (f=1.296) [1]

Frequency = 1.296
Main lobe magnitude = 8.8 dBi
Main lobe direction = 0.0 deg.
Angular width (10 dB) = 134.1 deg.
Side lobe level = -22.2 dB

Theta / Degree vs. dBi

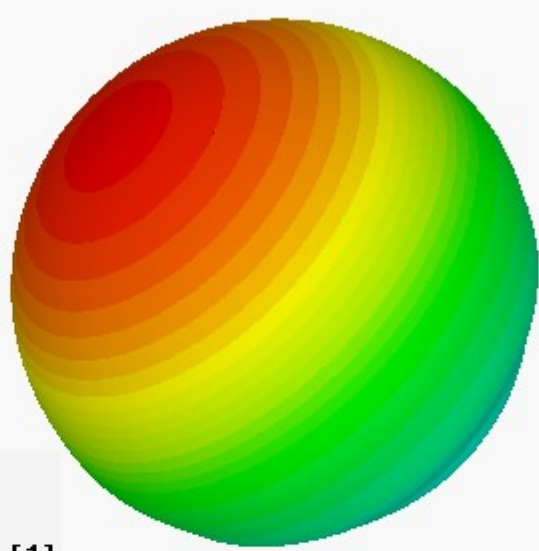
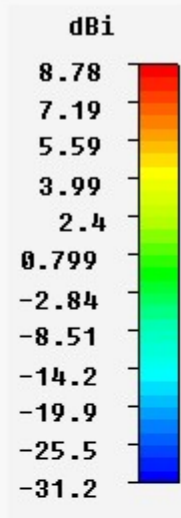
Directivity Abs (Phi=90)



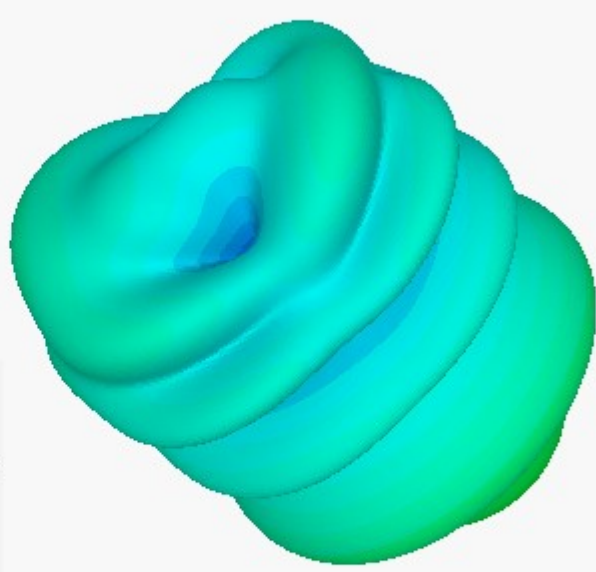
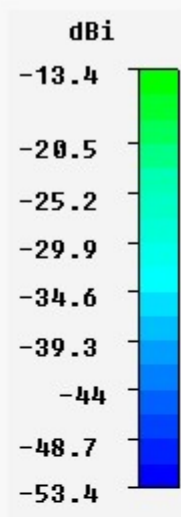
farfield (f=1.296) [1]

Frequency = 1.296
Main lobe magnitude = 8.8 dBi
Main lobe direction = 0.0 deg.
Angular width (10 dB) = 134.3 deg.
Side lobe level = -22.2 dB

Theta / Degree vs. dBi

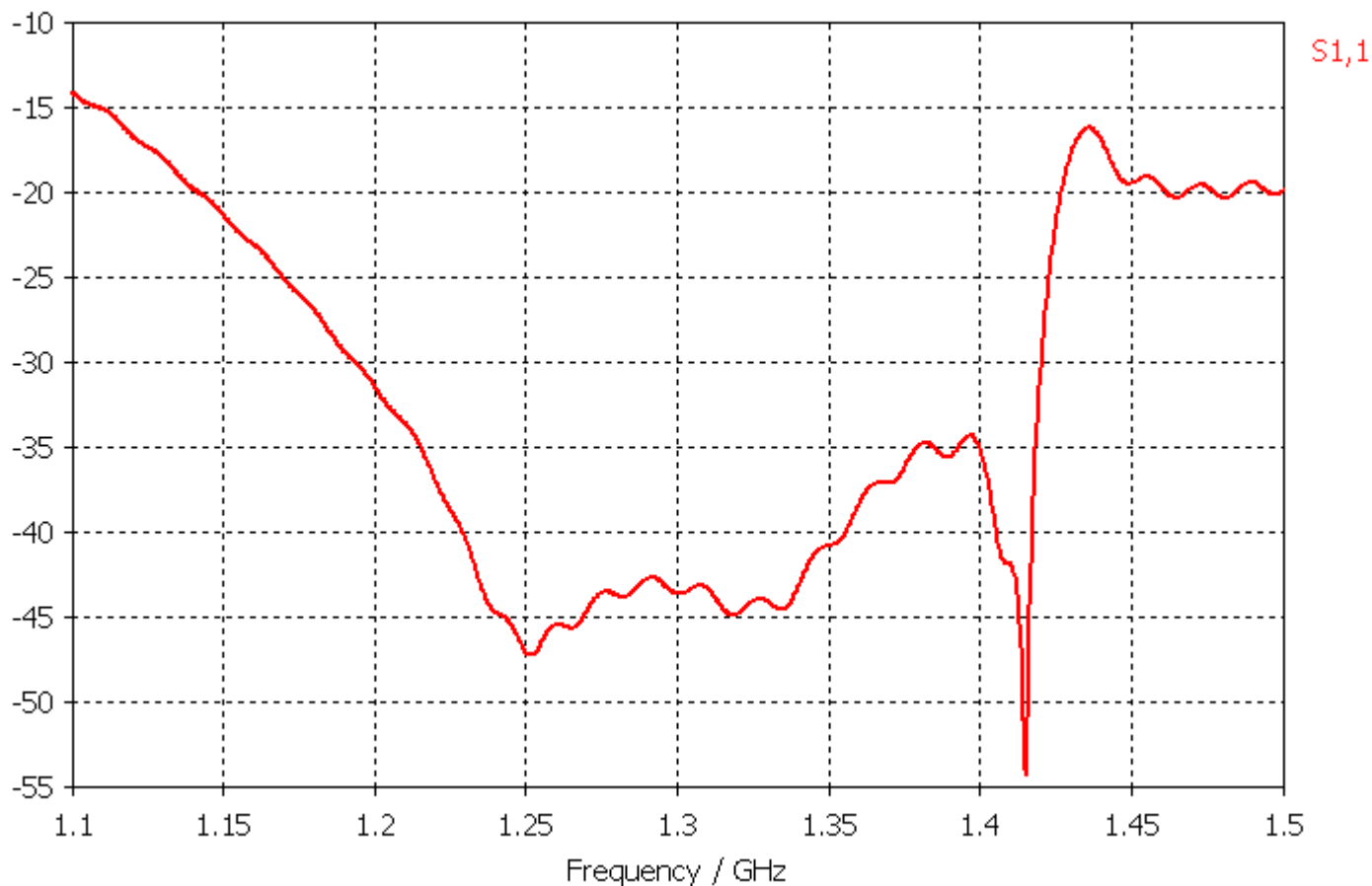


Type	Farfield
Approximation	enabled ($kR \gg 1$)
Monitor	farfield (f=1.296) [1]
Component	Right Polarisation
Output	Directivity
Frequency	1.296
Rad. effic.	-0.003093 dB
Tot. effic.	-0.003314 dB
Dir.(Abs)	8.784 dBi
Dir.(Right)	8.784 dBi
Phase center	(-0.460636, 0.21899, 11.954) Sigma 2.63108

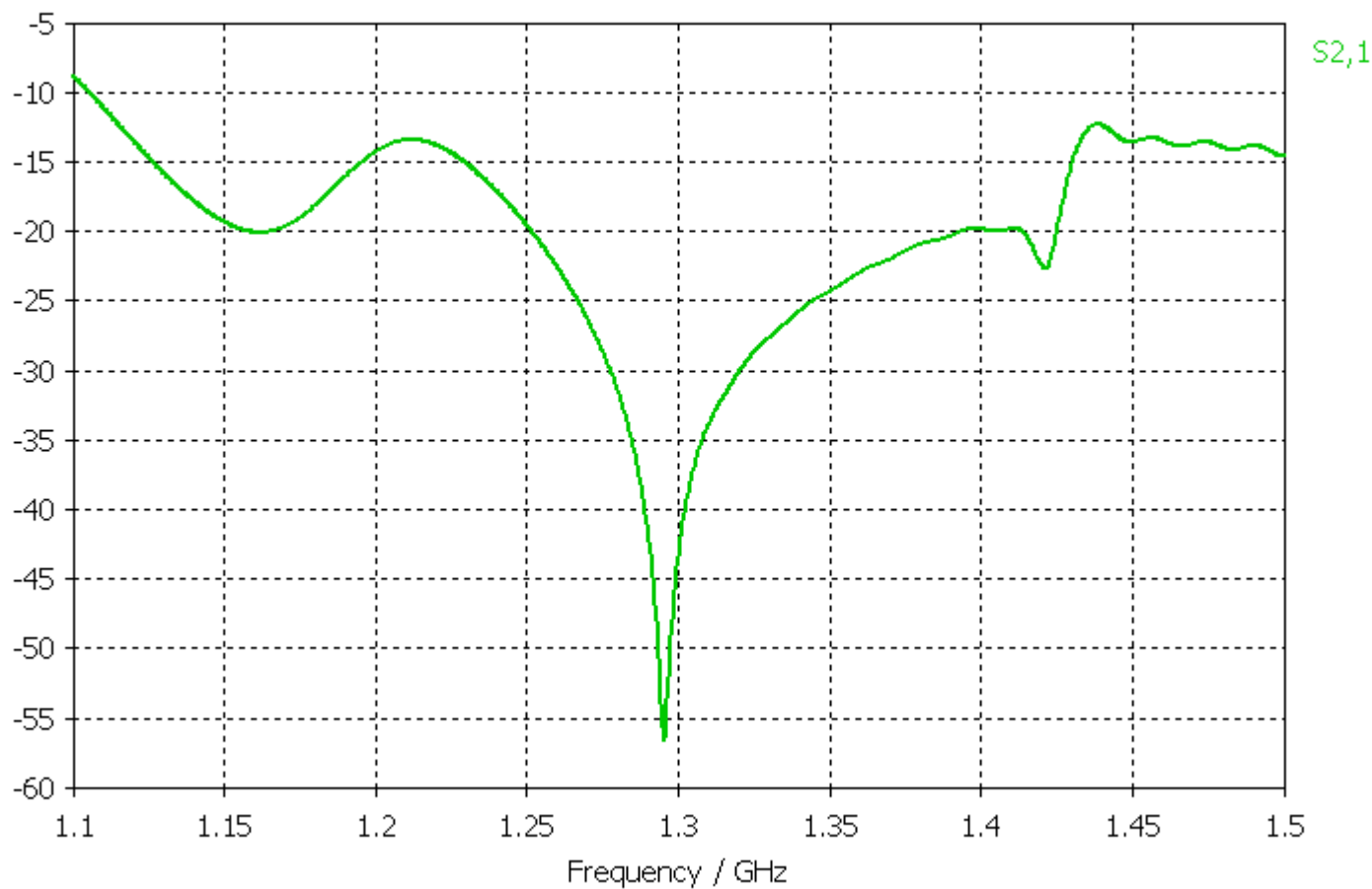


Type	Farfield
Approximation	enabled ($kR \gg 1$)
Monitor	farfield (f=1.296) [1]
Component	Left Polarisation
Output	Directivity
Frequency	1.296
Rad. effic.	-0.003093 dB
Tot. effic.	-0.003314 dB
Dir.(Abs)	8.784 dBi
Dir.(Left)	-13.44 dBi
Phase center	(-0.460636, 0.21899, 11.954) Sigma 2.63108

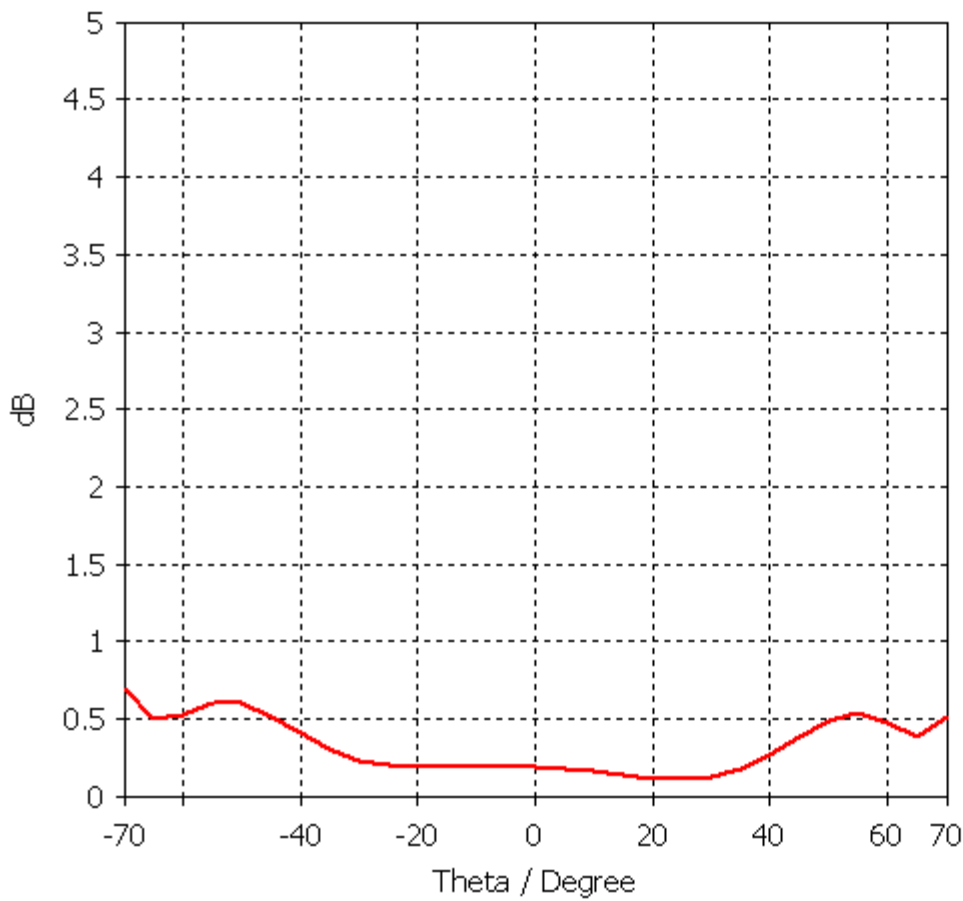
S-Parameter Magnitude in dB



S-Parameter Magnitude in dB

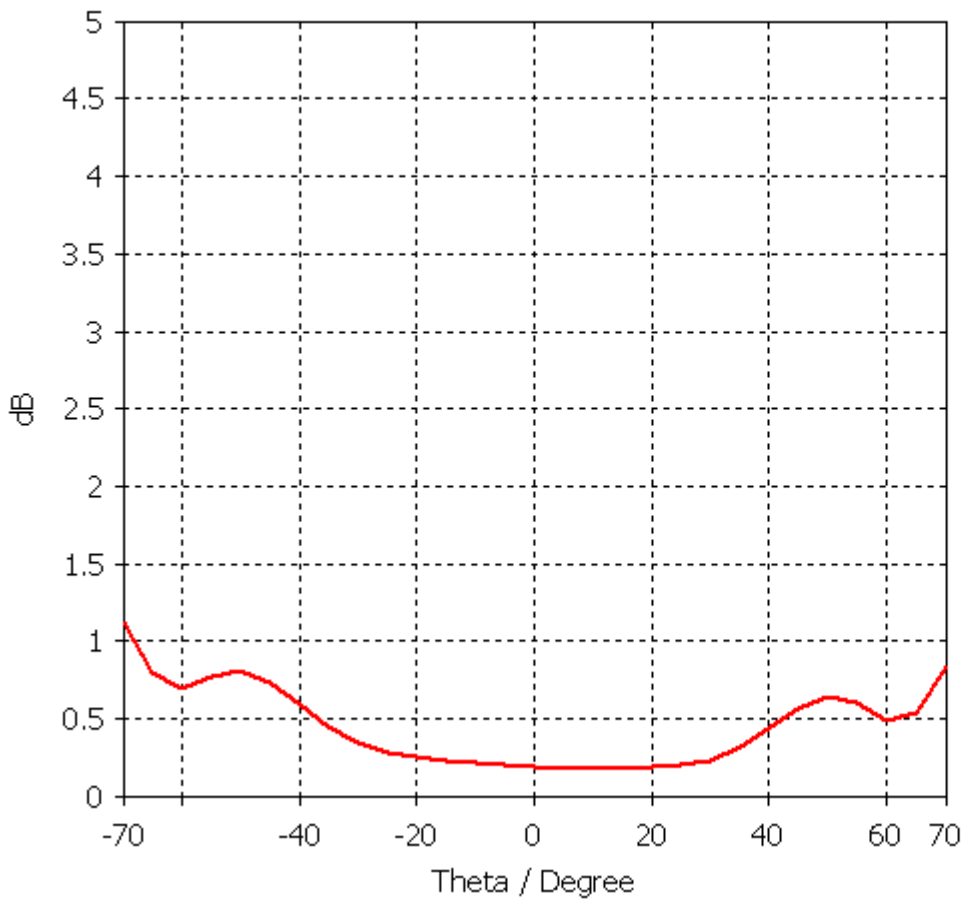


Axial Ratio (Phi=0)



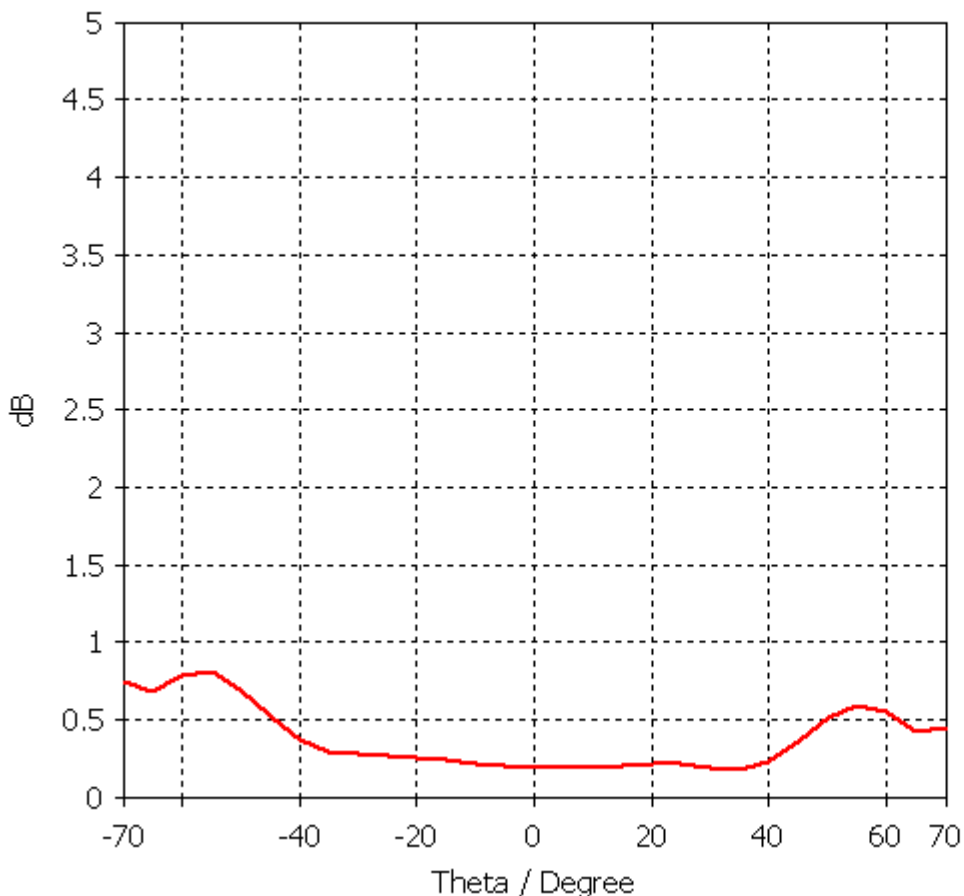
Frequency = 1.296
Main lobe magnitude = 40.0 dB

Axial Ratio (Phi=45)



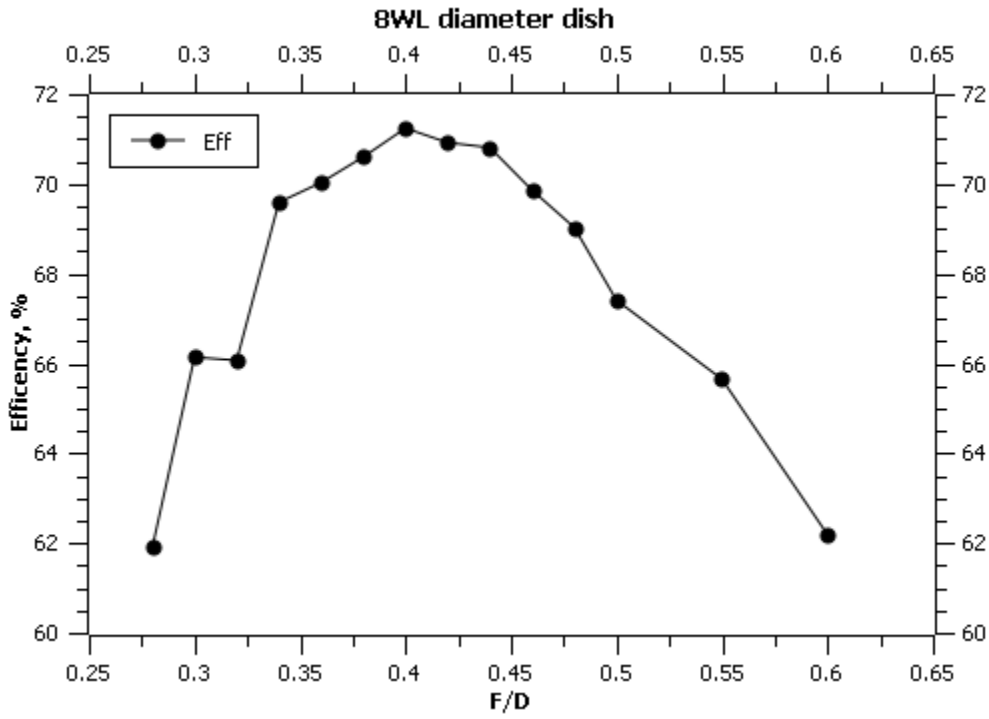
Frequency = 1.296
Main lobe magnitude = 34.2 dB

Axial Ratio (Phi=90)



farfield (f=1.296) [1]

Frequency = 1.296
Main lobe magnitude = 30.4 dB



8WL diameter dish pattern for F/D 0.28...0.6

