Thin dielectric (blank PC board)

Impedance matching strip:
1/8 λ in length, 1/16 λ in width
(26.25 mm x 13.125 mm)
Soldered onto base of helix strip

2-Turn LCP Helix:
Center Frequency: 1420 MHz
Wavelength: λ = 21 cm

D = 63.50 mm (0.3λ)
S = 29.97 mm (0.14λ)
α = 8.61°

Note: Helix is LCP to give RCP upon reflection by dish

Magic Line aluminum cake pan
7" diameter by 3" deep

2.5" diameter styrofoam rod

MIT Haystack SRT
Helix Feed and Cavity rev. 5
Dustin Johnson 5 July 2012