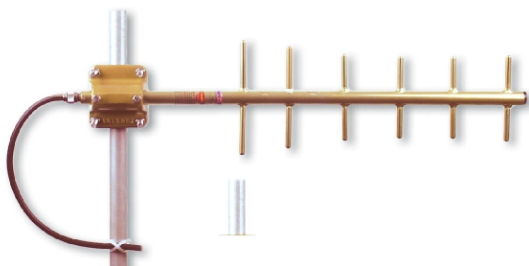


# Directional Yagis Antennas Superior Quality & Performance

Our Directional Yagis, 6 elements, UHF series are designed focus on maximum durability, heavy duty, and high performance. This UHF yagi series is a 12.2 dBi antenna gain operates on 406 to 512MHz frequency ranges (see specific product#). It is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions.



## FEATURES

- Gold anodized & fully welded for corrosion resistance and maximum durability
- Internally matched feed line welded into boom for maximum strength and electrical conductivity.
- Boom and Elements are manufactured from aircraft quality 6061-T6 aluminum for optimum strength
- 100% tested on a network analyzer

## APPLICATIONS

Designed for heavy duty Amateur and Commercial applications

### ELECTRICAL

Frequency Range:	See per product#
Frequency Bandwidth:	See per product#
VSWR:	< 1.5:1
Return Loss:	-10dB max
Nominal Gain:	12.2 dBi
Front to Back Ratio:	20 dB
Maximum Power:	300 W
Nominal Impedance:	50Ω
Polarization:	Vertical or Horizontal
Pattern:	Directional
Horizontal Beamwidth:	57°
(For Horizontal Polarization)	
Vertical Beamwidth:	67°
(For Vertical Polarization)	
Tuning:	fixed tune
Transmitting / Receiving:	Both

### MOUNTING

Included:	Yagi mounting kit for installation
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### MECHANICAL

Material:	6061-T6 Aluminum
Length:	see chart
Height:	see chart
Boom Diameter:	0.875"
Weight:	~4 lbs
Rated Wind Velocity:	125mph
Temperature Rating:	-40°C to +85°C
Equivalent Flat Area:	0.4620 sq. ft. (max)
Cable:	None
Termination:	N-female connector
Color:	Gold or (B) Black Anodized
Lightning Protection:	Lightning Arrestor LABH350NN (Sold Separately)

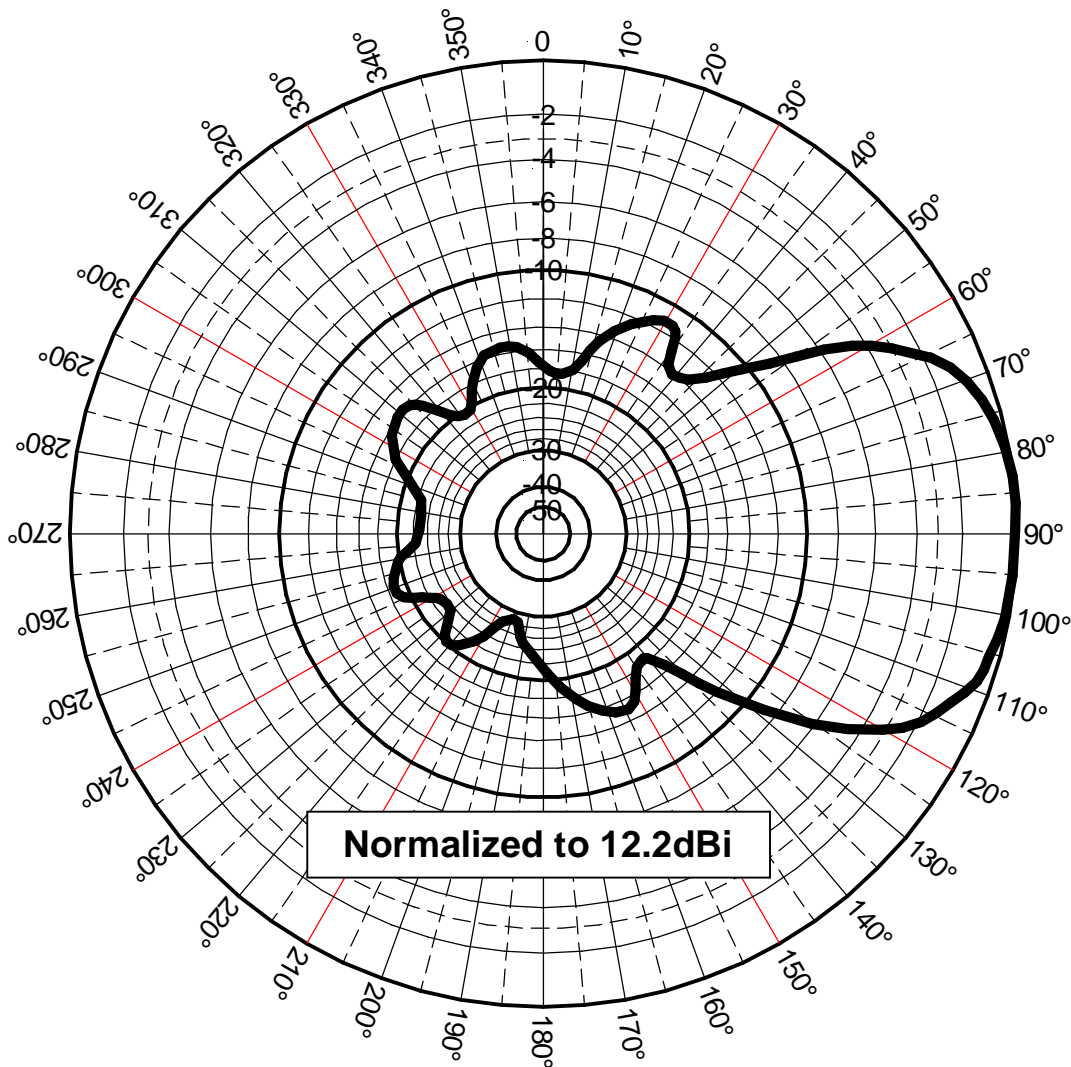


### Model and Ordering Information:

Model#	Description	Dimensions
Y4066	406-430 MHz, Gold anodized, Internally matched, 12.2 dBi	48.125"L x 14.375"H x 0.875"Thick
Y4306	430-450 MHz, Gold anodized, Internally matched, 12.2 dBi	40.313"L x 13.875"H x 0.875"Thick
Y4506	450-470 MHz, Gold anodized, Internally matched, 12.2 dBi	40.313"L x 13.625"H x 0.875"Thick
Y4706	470-512 MHz, Gold anodized, Internally matched, 12.2 dBi	40.313"L x 12.375"H x 0.875"Thick

# Directional Yagis Antennas Superior Quality & Performance

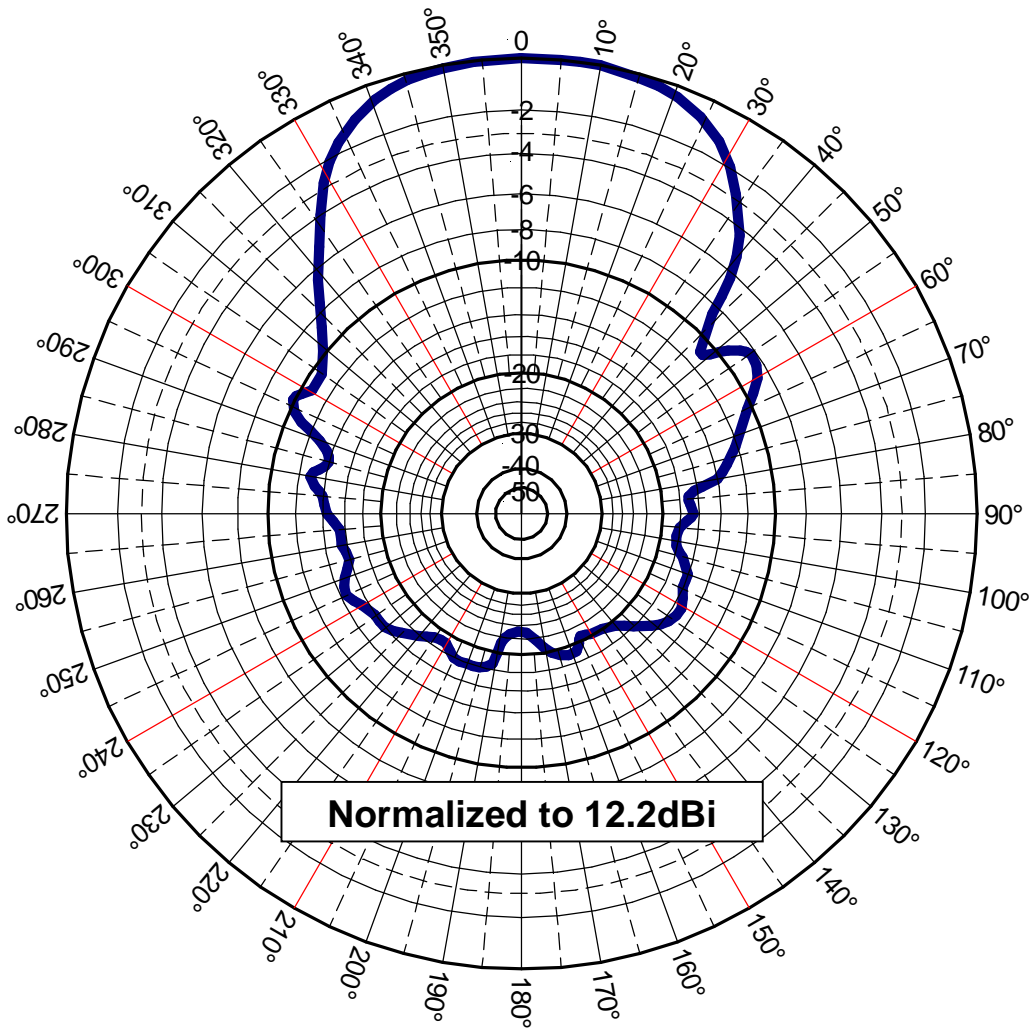
## ANTENNA RADIATION PATTERN



**Azimuthal Pattern (X, Y or E-Plane)  
Test Frequency = 460 MHz**

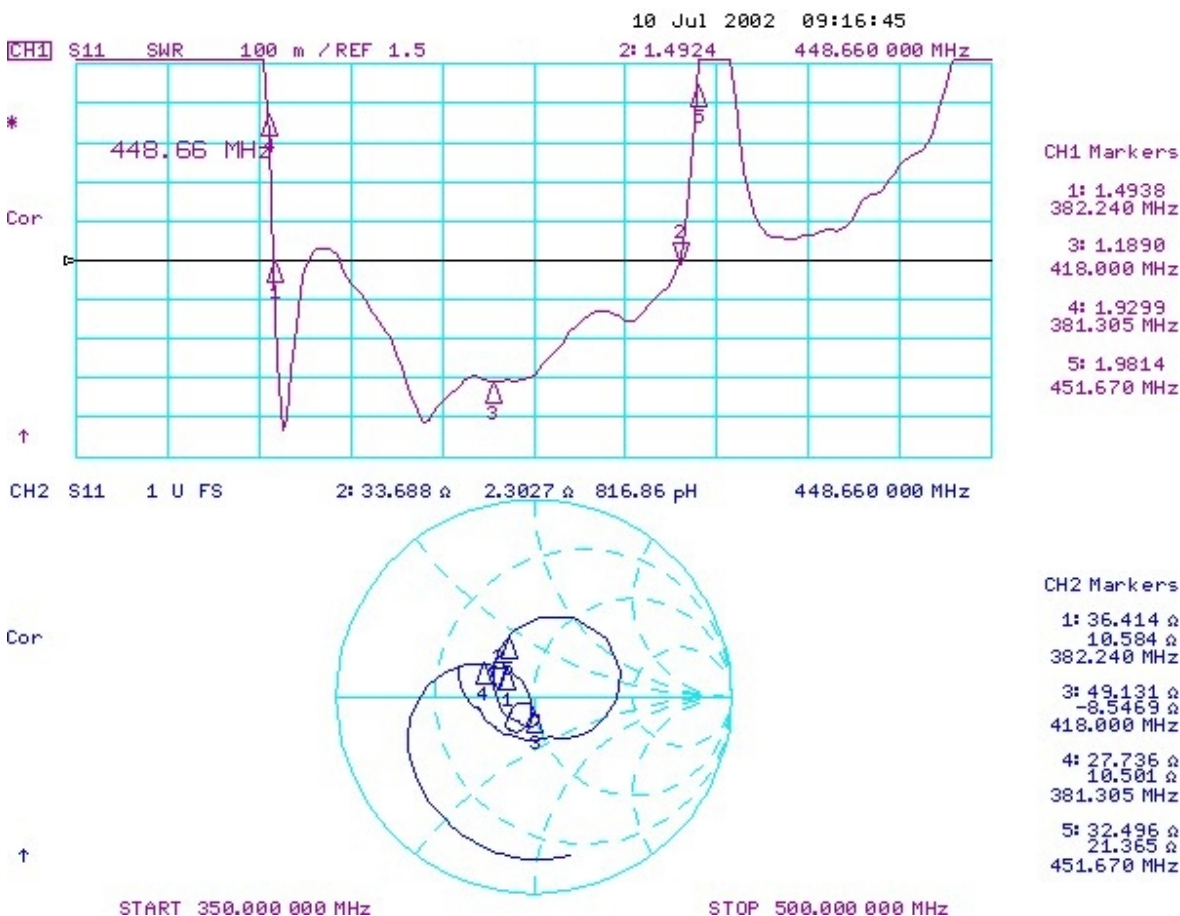
# Directional Yagis Antennas Superior Quality & Performance

## ANTENNA RADIATION PATTERN



**Elevation Pattern (Y, Z or H-Plane)  
Representation Pattern**

**VSWR of Y4066**



***Y4066 Typical VSWR sweeps – Primary Specifications***

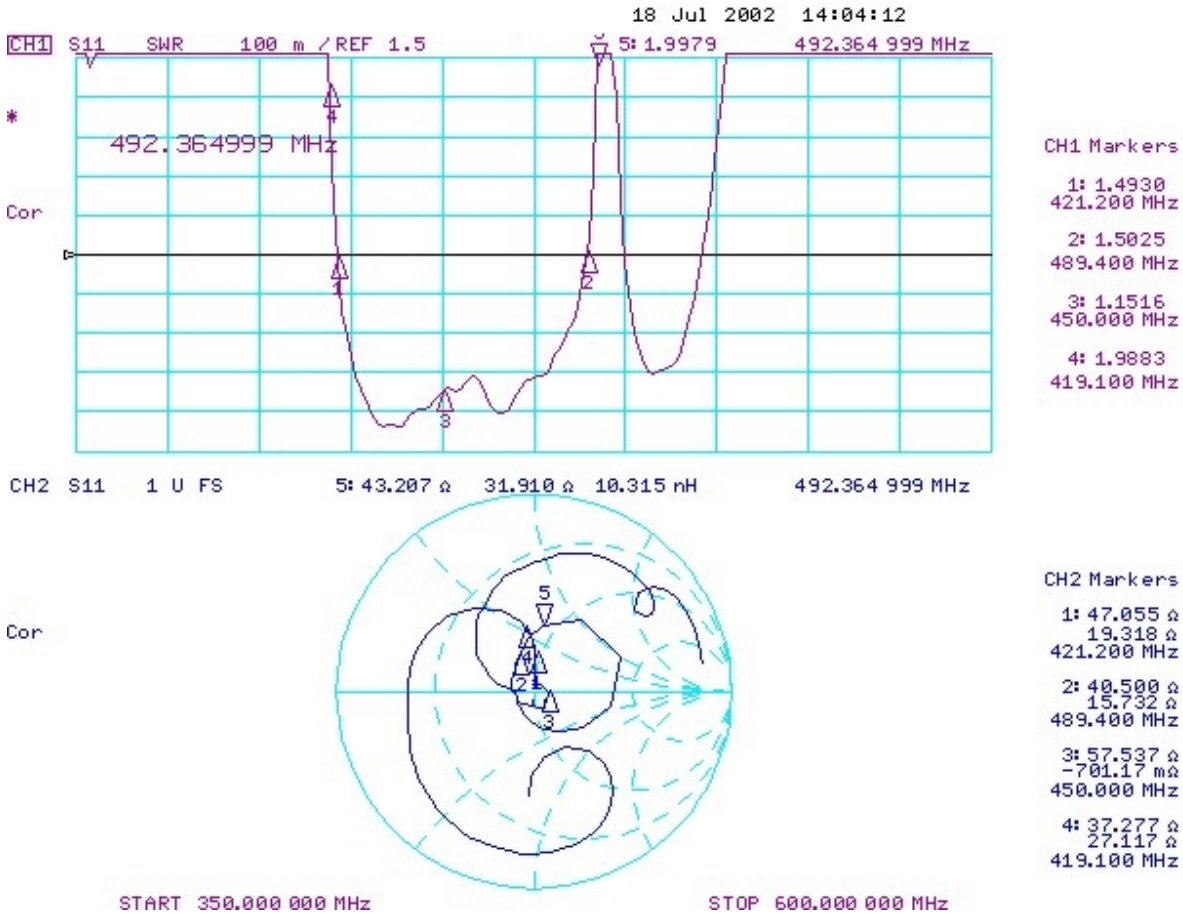
- Marker 1: 1.4938 to 1 @ 382 MHz
- Marker 2: 1.4924 to 1 @ 448 MHz
- Marker 3: 1.1890 to 1 @ 418 MHz

***Y4066 Typical VSWR sweeps – Secondary Specifications***

- Marker 4: 1.9299 to 1 @ 381 MHz
- Marker 5: 1.9814 to 1 @ 451 MHz

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**VSWR of Y4306**



***Y4306 Typical VSWR sweeps – Primary Specifications***

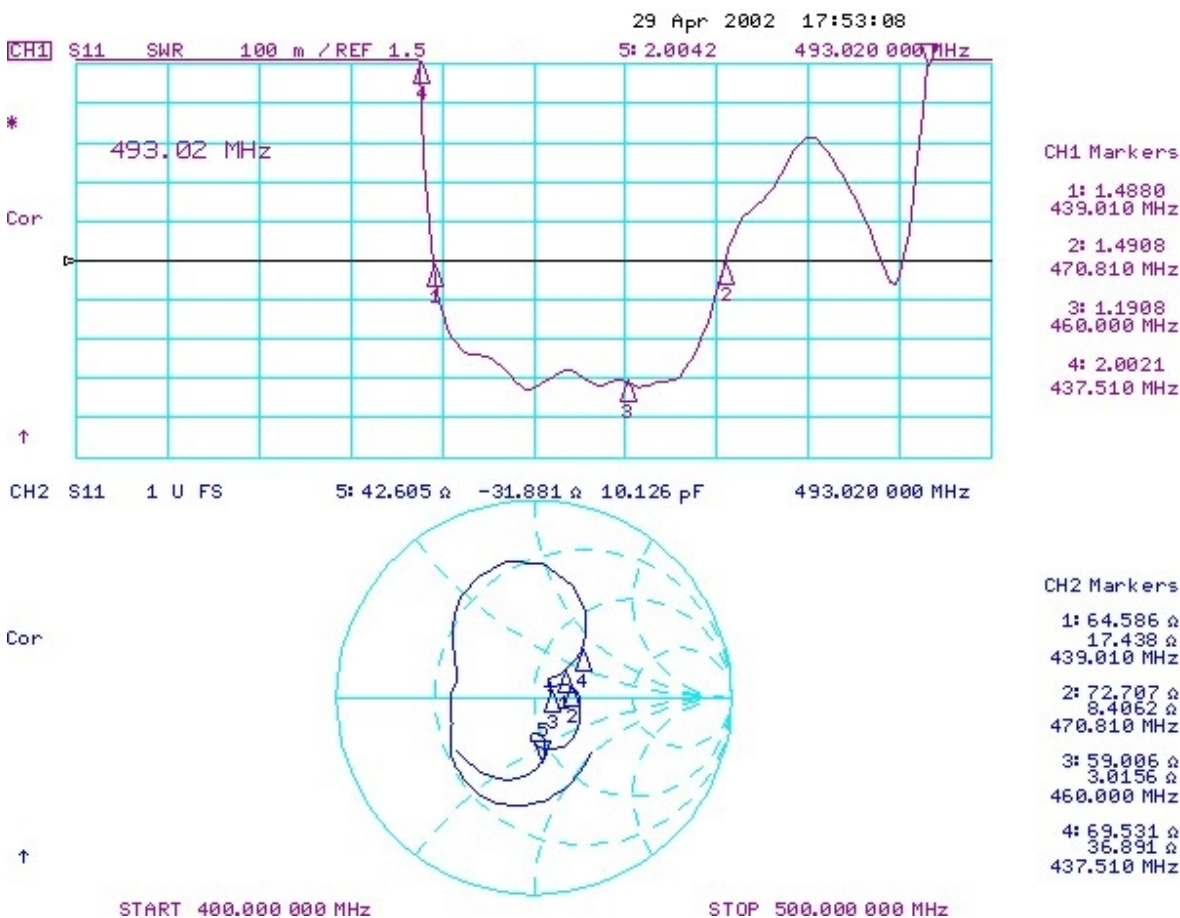
- Marker 1: 1.4930 to 1 @ 421 MHz
- Marker 2: 1.5025 to 1 @ 489 MHz
- Marker 3: 1.1516 to 1 @ 450 MHz

***Y4306 Typical VSWR sweeps – Secondary Specifications***

- Marker 4: 1.9883 to 1 @ 419 MHz
- Marker 5: 1.9979 to 1 @ 492 MHz

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**VSWR of Y4506**



***Y4506 Typical VSWR sweeps – Primary Specifications***

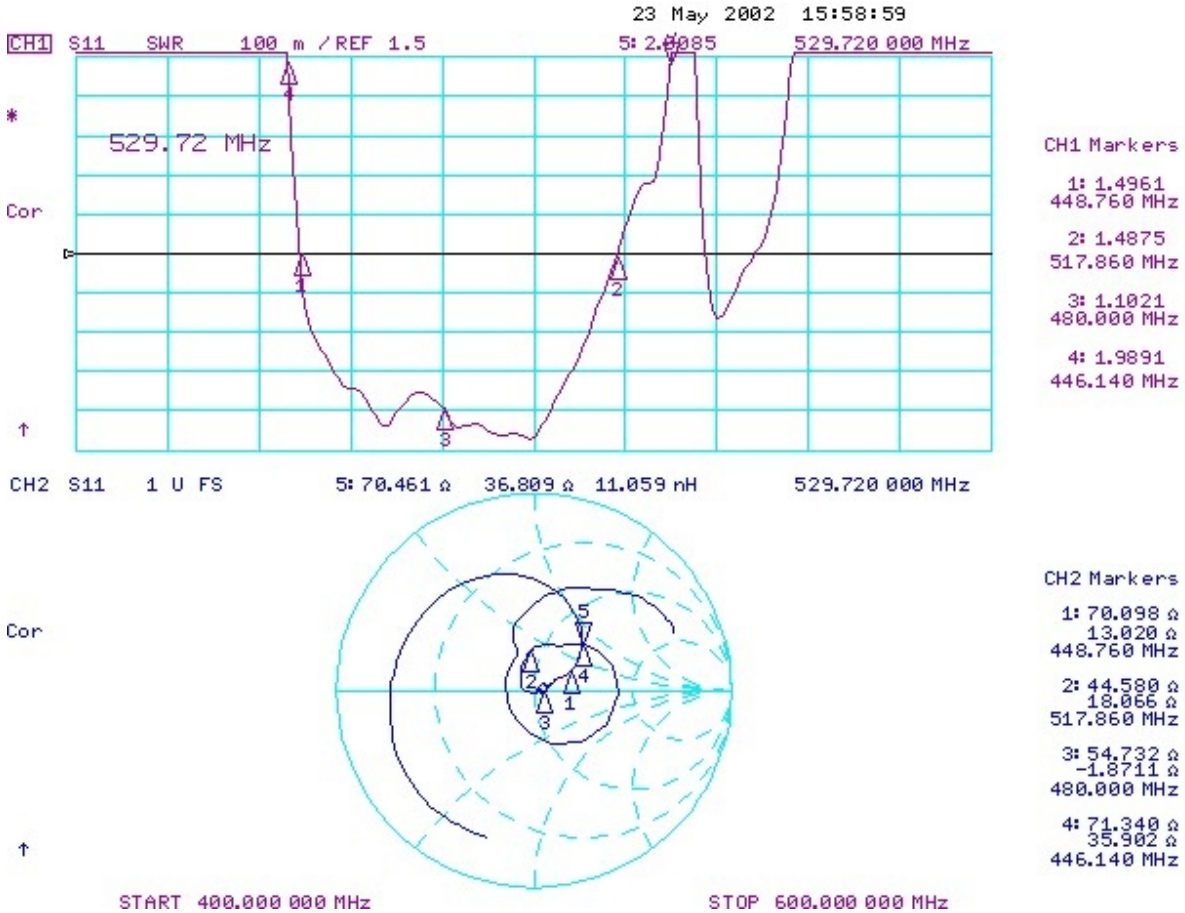
- Marker 1: 1.4880 to 1 @ 439 MHz
- Marker 2: 1.4908 to 1 @ 470 MHz
- Marker 3: 1.1908 to 1 @ 460 MHz

***Y4506 Typical VSWR sweeps – Secondary Specifications***

- Marker 4: 2.0021 to 1 @ 437 MHz
- Marker 5: 2.0042 to 1 @ 493 MHz

12/12/2002

**VSWR of Y4706**



***Y4706 Typical VSWR sweeps – Primary Specifications***

- Marker 1: 1.4961 to 1 @ 448 MHz
- Marker 2: 1.4875 to 1 @ 517 MHz
- Marker 3: 1.1021 to 1 @ 480 MHz

***Y4706 Typical VSWR sweeps – Secondary Specifications***

- Marker 4: 1.9891 to 1 @ 446 MHz
- Marker 5: 2.0085 to 1 @ 529 MHz

12/19/2002