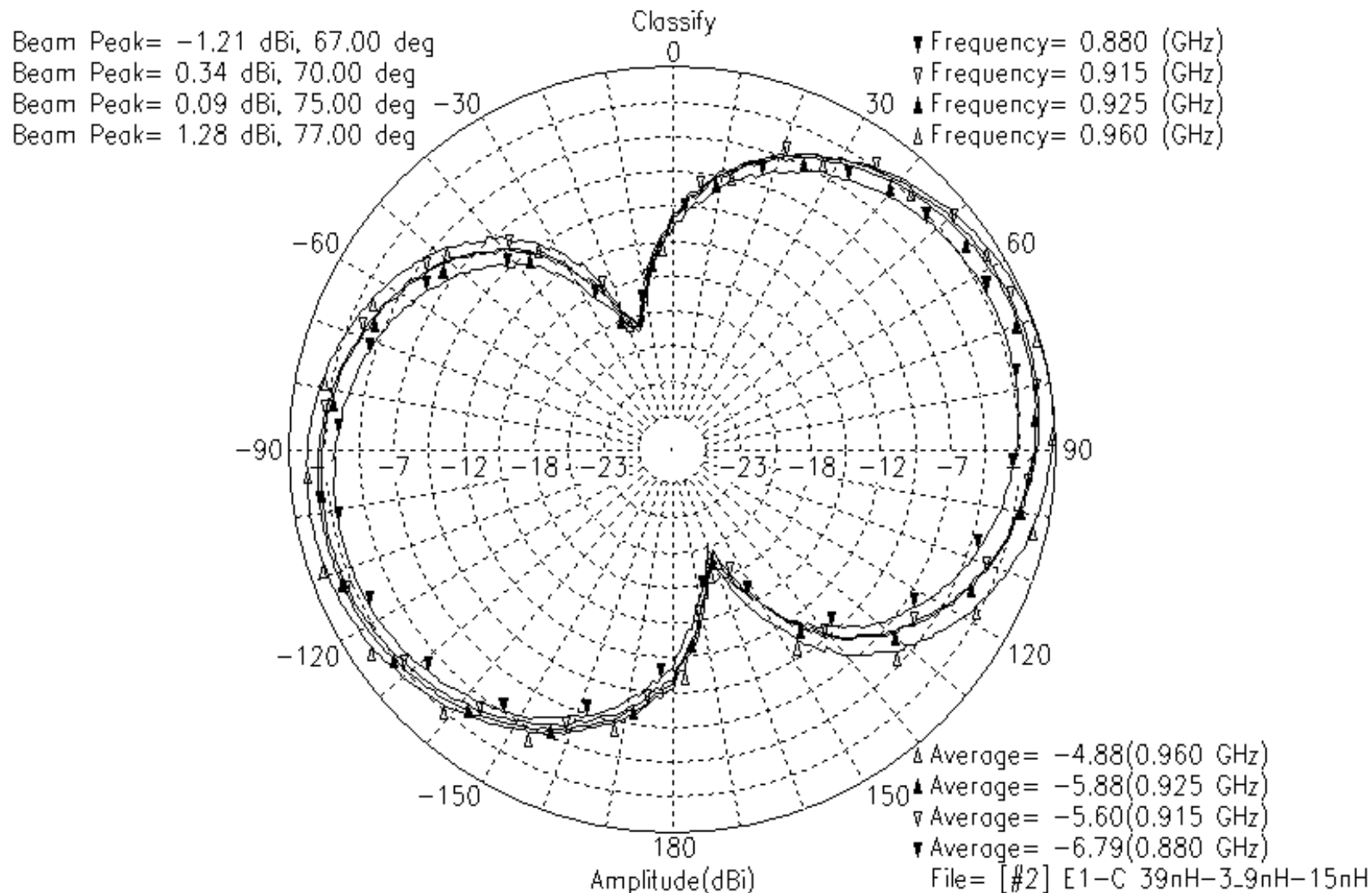




<h1>Specification Sheet</h1>		Approval	Prepared	Review	Confirm	Approval	
			/	/	/	/	
			Model		G310		REV.
No				Page		1 of 1	
Name		JIN TAE KIM		Date		2003. 8. 29	
<b>Electrical Spec</b>							
Frequency Range (GHz)			GSM		PCS		
			0.88 – 0.96		1.85 – 1.99		
V.S.W.R (Less than)			Band (GHz)	TX	RX	TX	RX
				0.88-0.915	0.925-0.96	1.85-1.91	1.93-1.99
			FC	4.5	3.0	3.0	3.5
Gain(dBi) (Peak Gain , More Than)			FO	3.5	2.5	2.5	2.5
			FC	-5.5	-3.5	-3.5	-4.0
Nominal Impedance			50 ohms				
Polarization			Vertical				
Max Input power			2 Watt				
<b>Mechanical Spec</b>							
Length			29.0 ±1.0 mm				
Weight			2.0 g				
Connector type			CONTACT PIN				
Cover material			PC(HF-1023IM)				
Swivel Torque			More Than 3Kgf				
Pulling force			More Than 10Kgf				
Temperature Range			-20      +70				
<b>Other</b>							

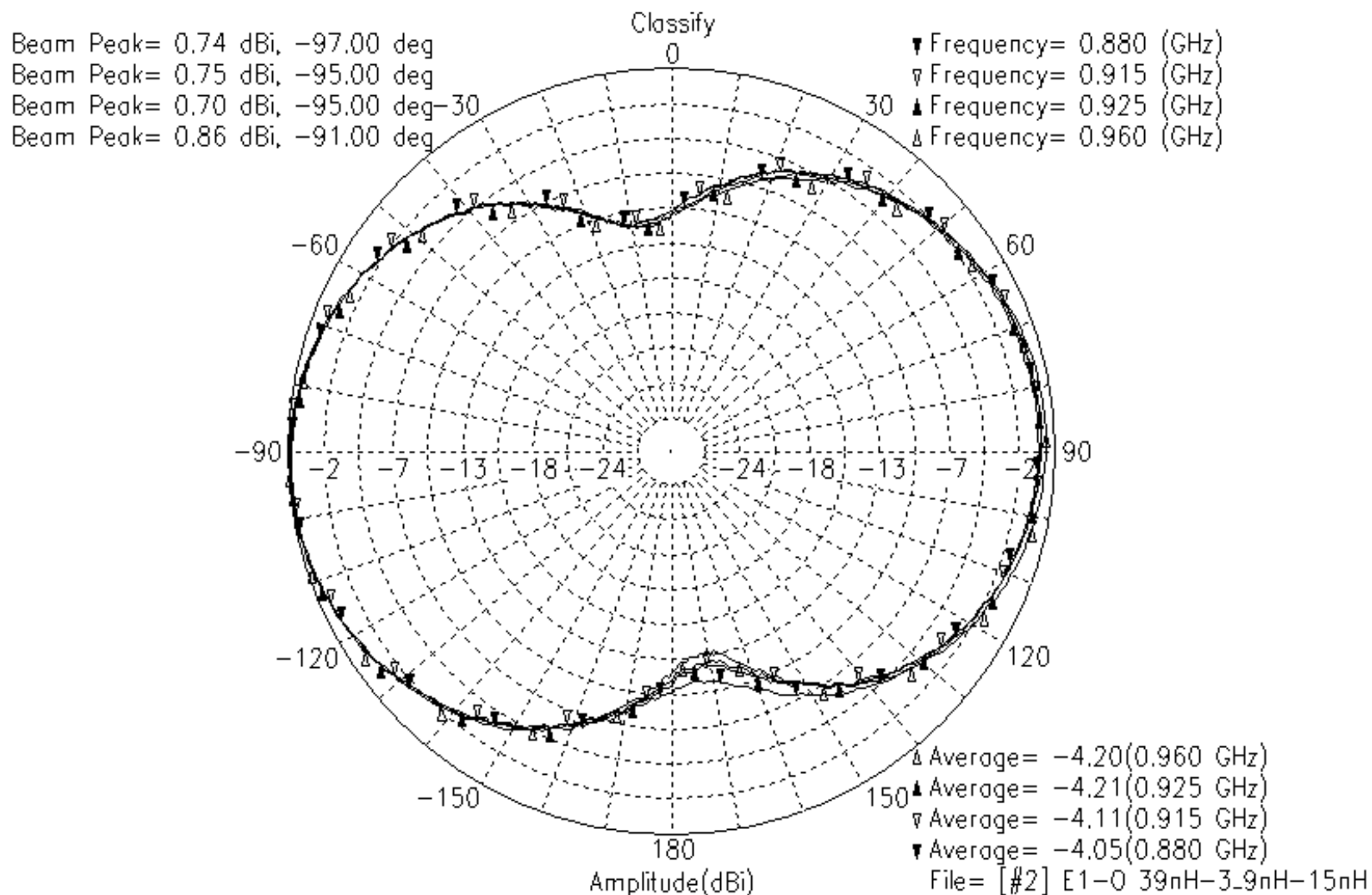
# Antenna Radiation Pattern

## GSM-E1-FOLDER CLOSED



# Antenna Radiation Pattern

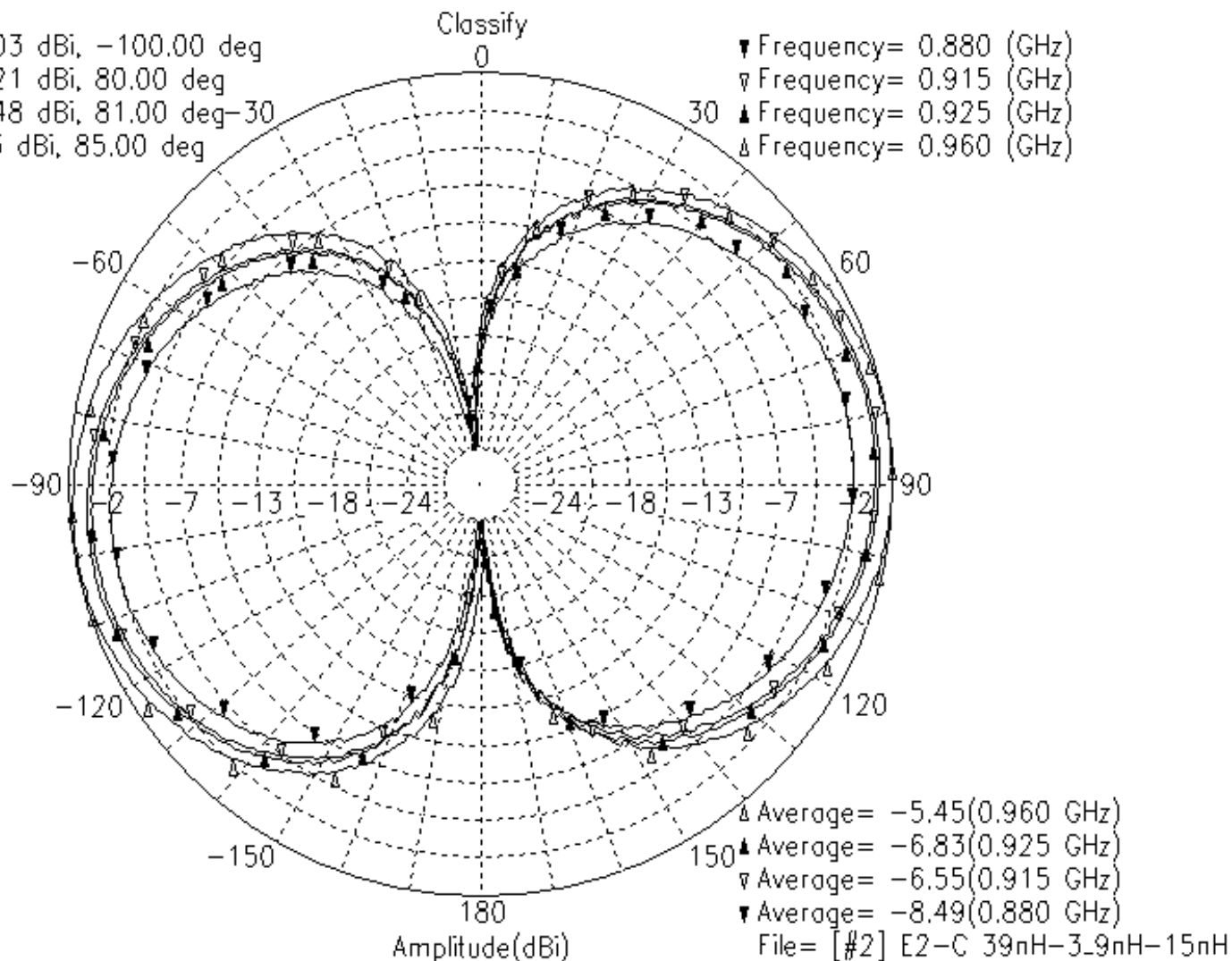
## GSM-E1-FOLDER OPENED



# Antenna Radiation Pattern

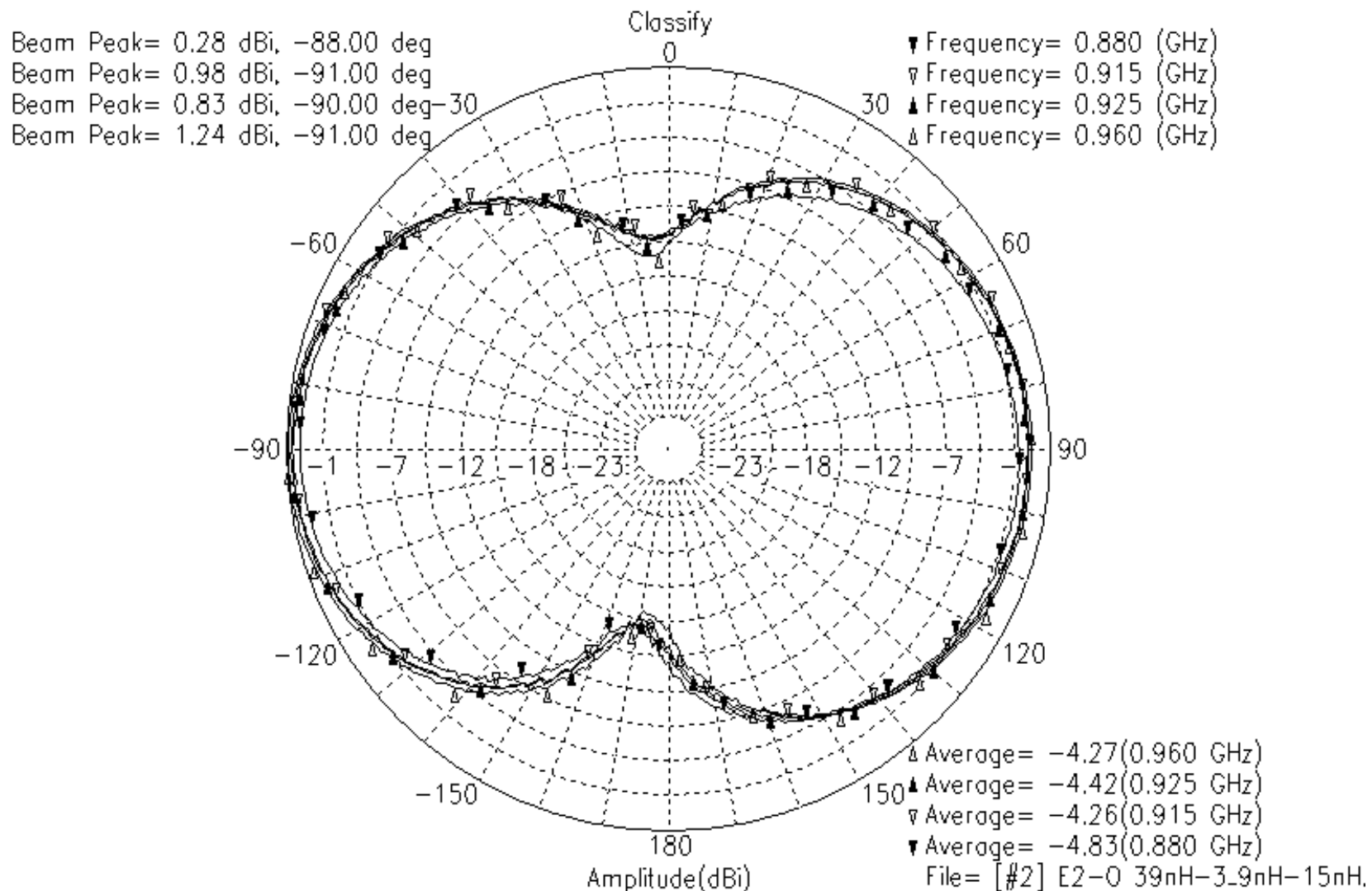
## GSM-E2-FOLDER CLOSED

Beam Peak= -2.03 dBi, -100.00 deg  
 Beam Peak= -0.21 dBi, 80.00 deg  
 Beam Peak= -0.48 dBi, 81.00 deg-30  
 Beam Peak= 0.73 dBi, 85.00 deg



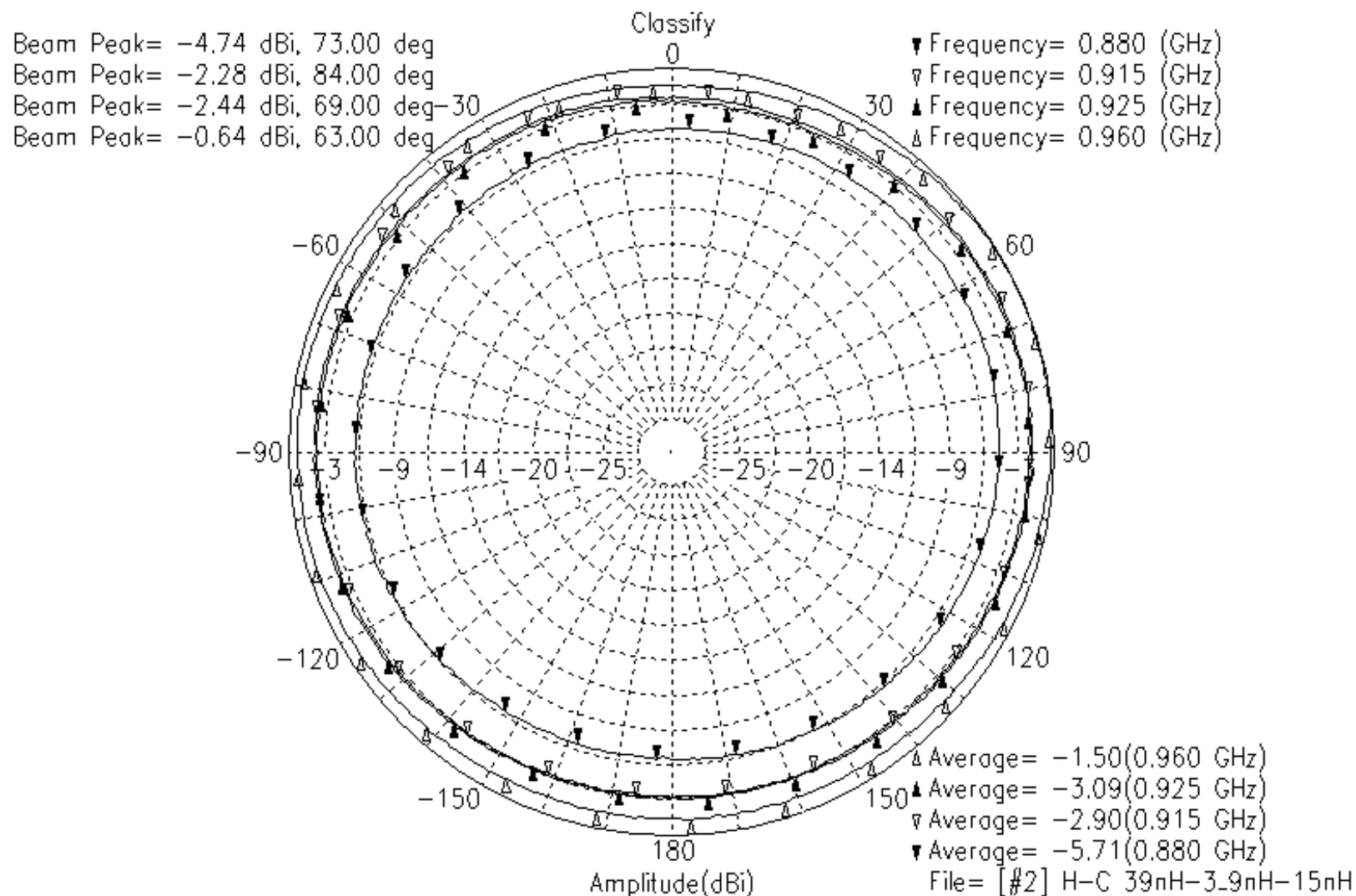
# Antenna Radiation Pattern

## GSM-E2-FOLDER OPENED



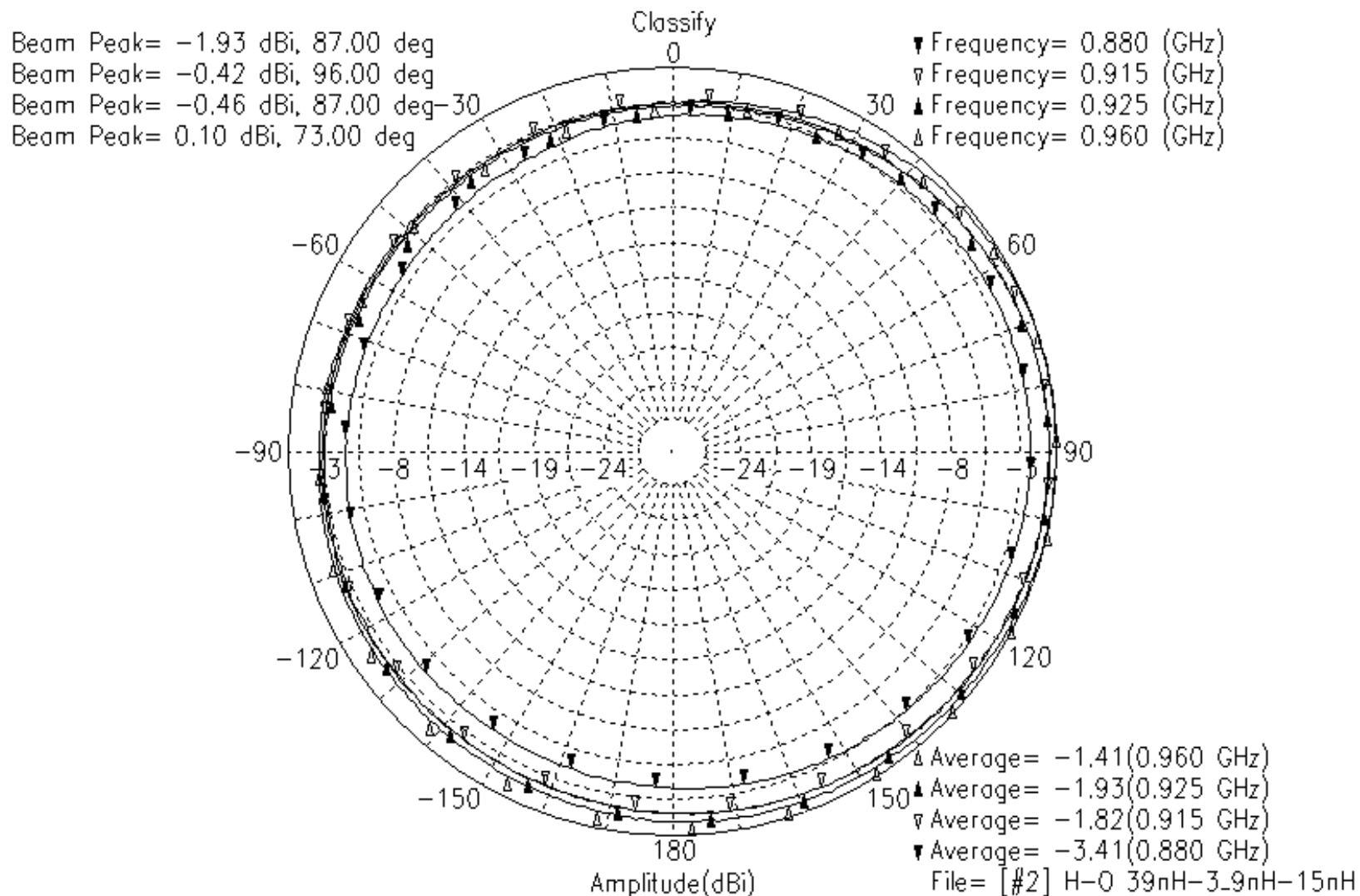
# Antenna Radiation Pattern

## GSM-H-FOLDER CLOSED



# Antenna Radiation Pattern

## GSM-H-FOLDER OPENED

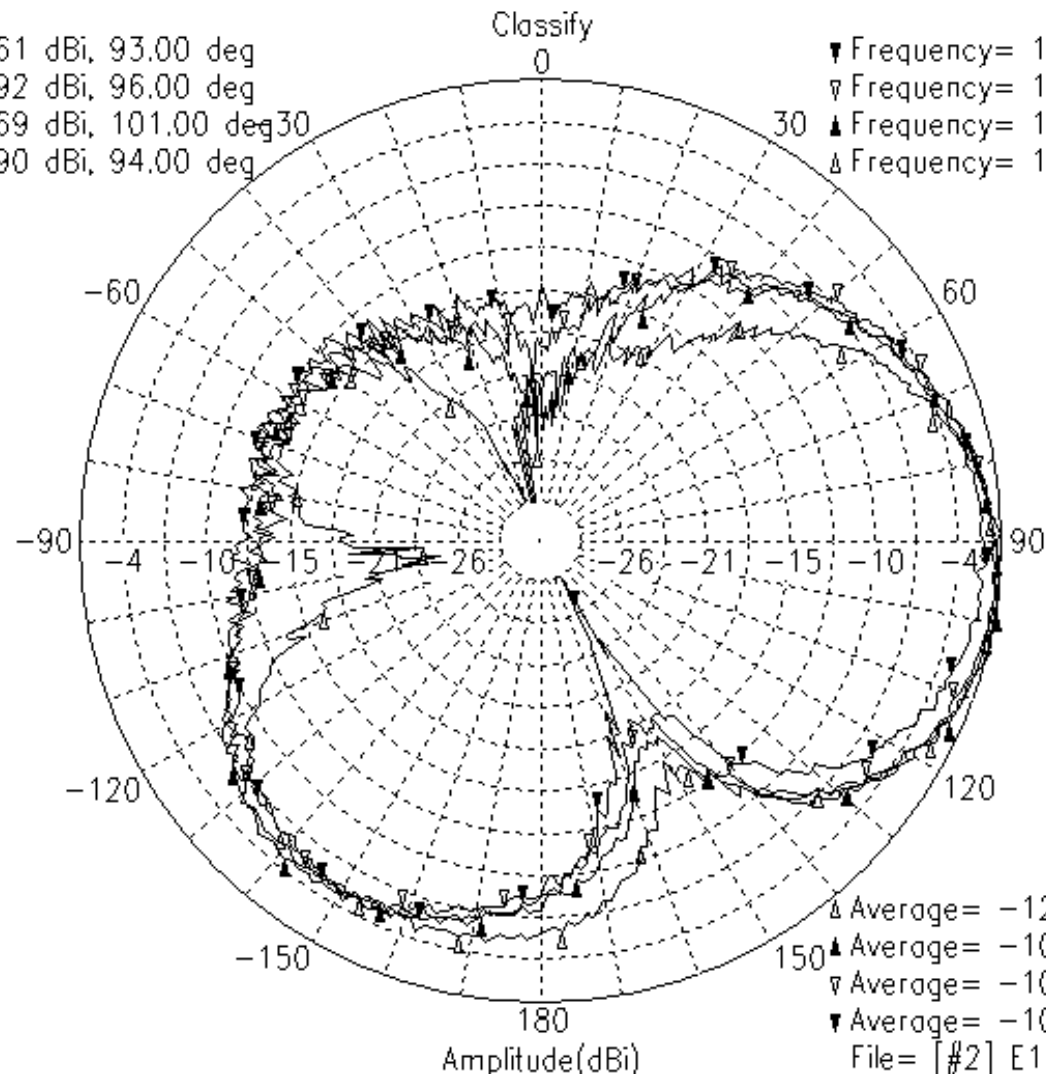


# Antenna Radiation Pattern

## PCS-E1-FOLDER CLOSED

Beam Peak= -2.61 dBi, 93.00 deg  
 Beam Peak= -1.92 dBi, 96.00 deg  
 Beam Peak= -1.69 dBi, 101.00 deg  
 Beam Peak= -1.90 dBi, 94.00 deg

▼ Frequency= 1.850 (GHz)  
 ▽ Frequency= 1.910 (GHz)  
 ▲ Frequency= 1.930 (GHz)  
 △ Frequency= 1.990 (GHz)

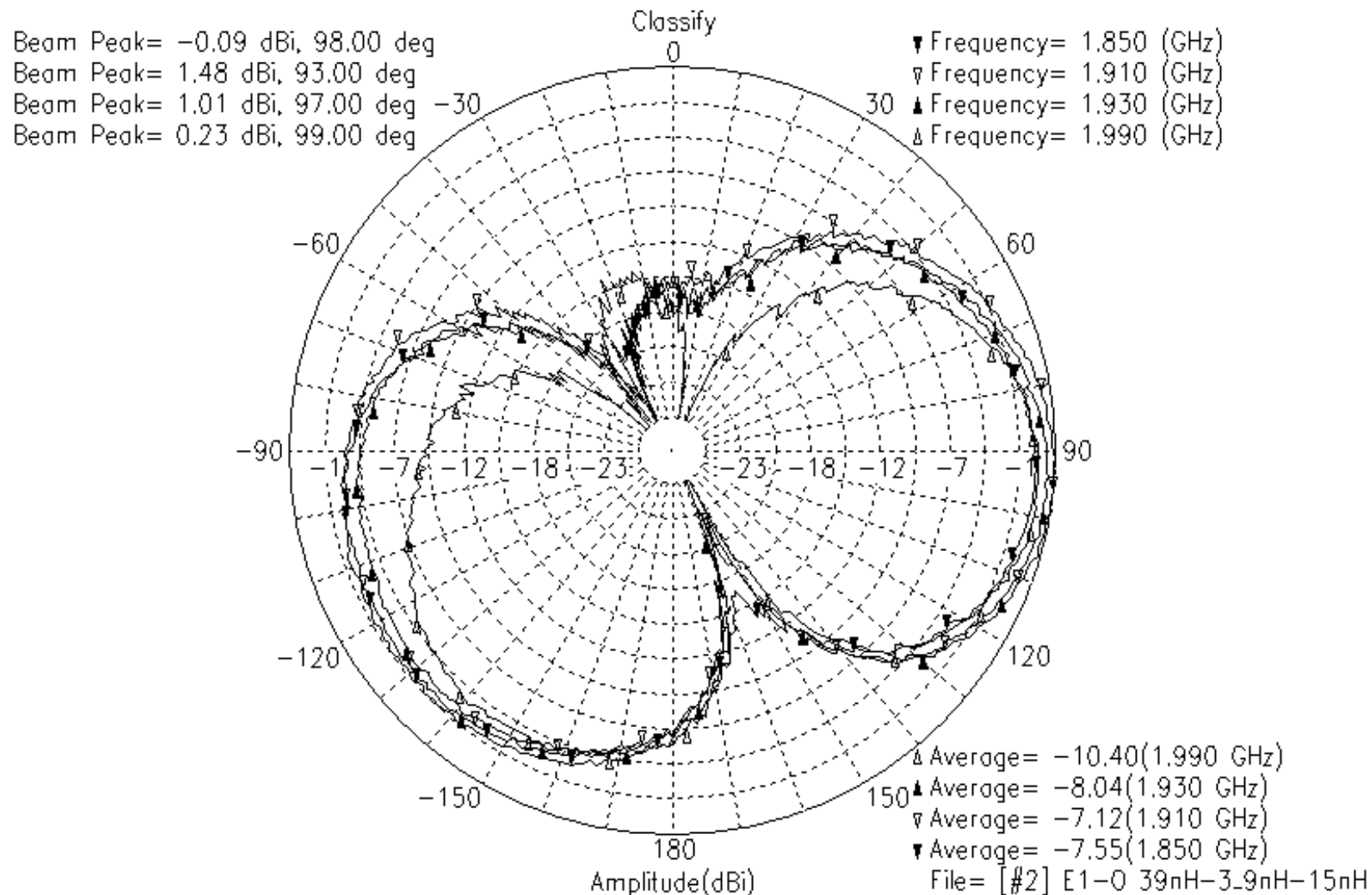


△ Average= -12.16(1.990 GHz)  
 ▲ Average= -10.40(1.930 GHz)  
 ▽ Average= -10.31(1.910 GHz)  
 ▼ Average= -10.51(1.850 GHz)



# Antenna Radiation Pattern

## PCS-E1-FOLDER OPENED

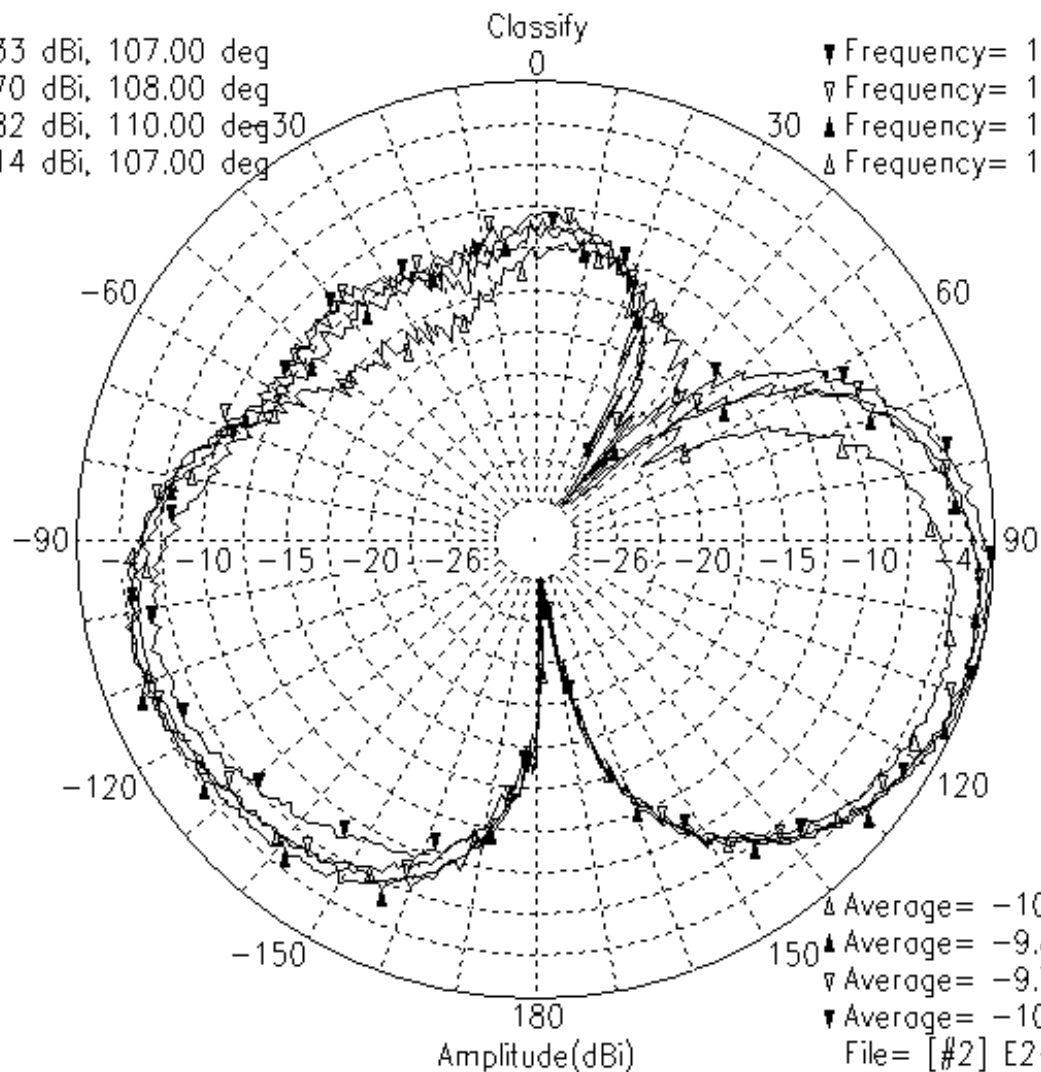


# Antenna Radiation Pattern

## PCS-E2-FOLDER CLOSED

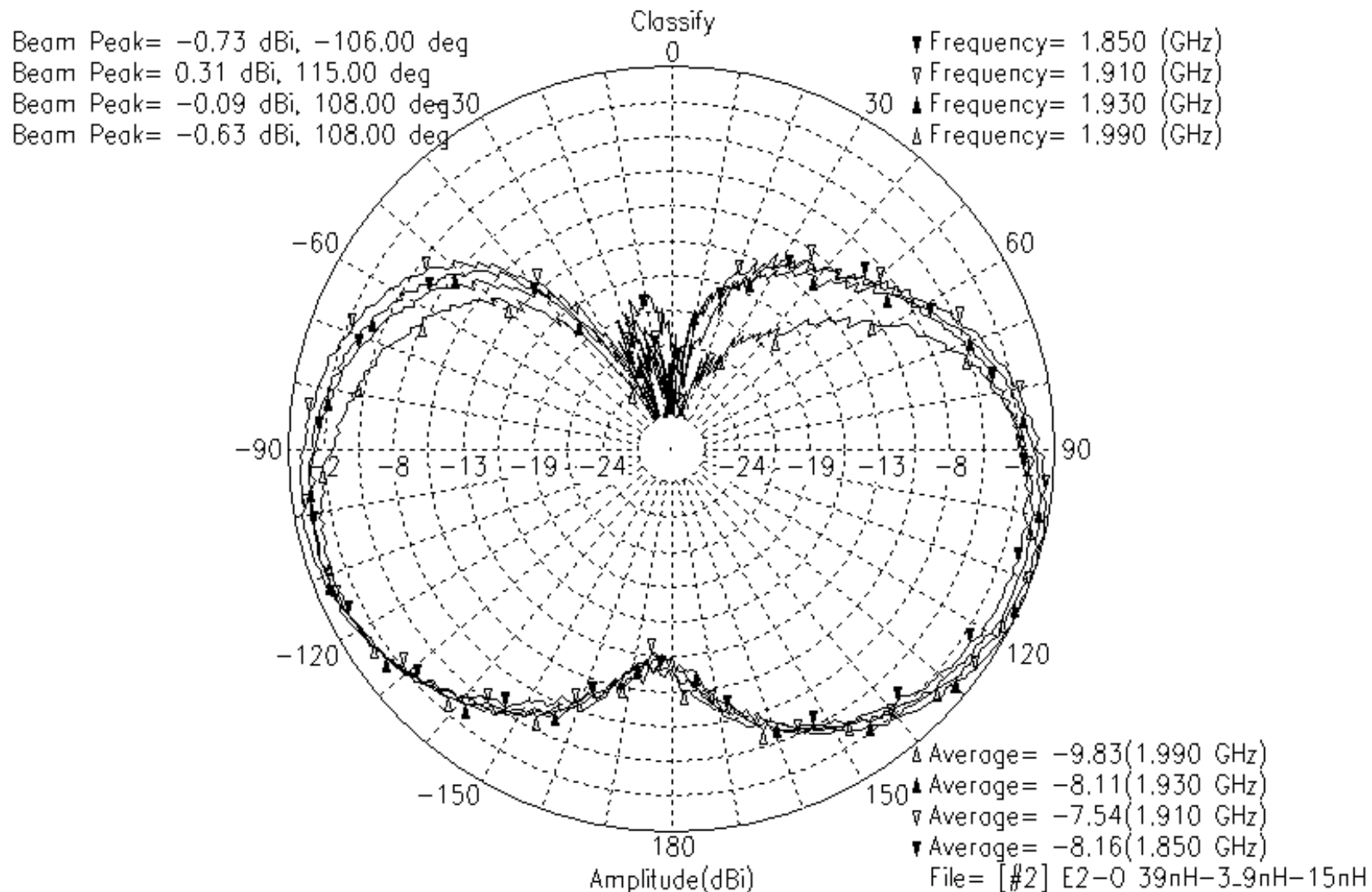
Beam Peak= -1.33 dBi, 107.00 deg  
 Beam Peak= -1.70 dBi, 108.00 deg  
 Beam Peak= -1.82 dBi, 110.00 deg  
 Beam Peak= -3.14 dBi, 107.00 deg

▼ Frequency= 1.850 (GHz)  
 ▽ Frequency= 1.910 (GHz)  
 ▲ Frequency= 1.930 (GHz)  
 △ Frequency= 1.990 (GHz)



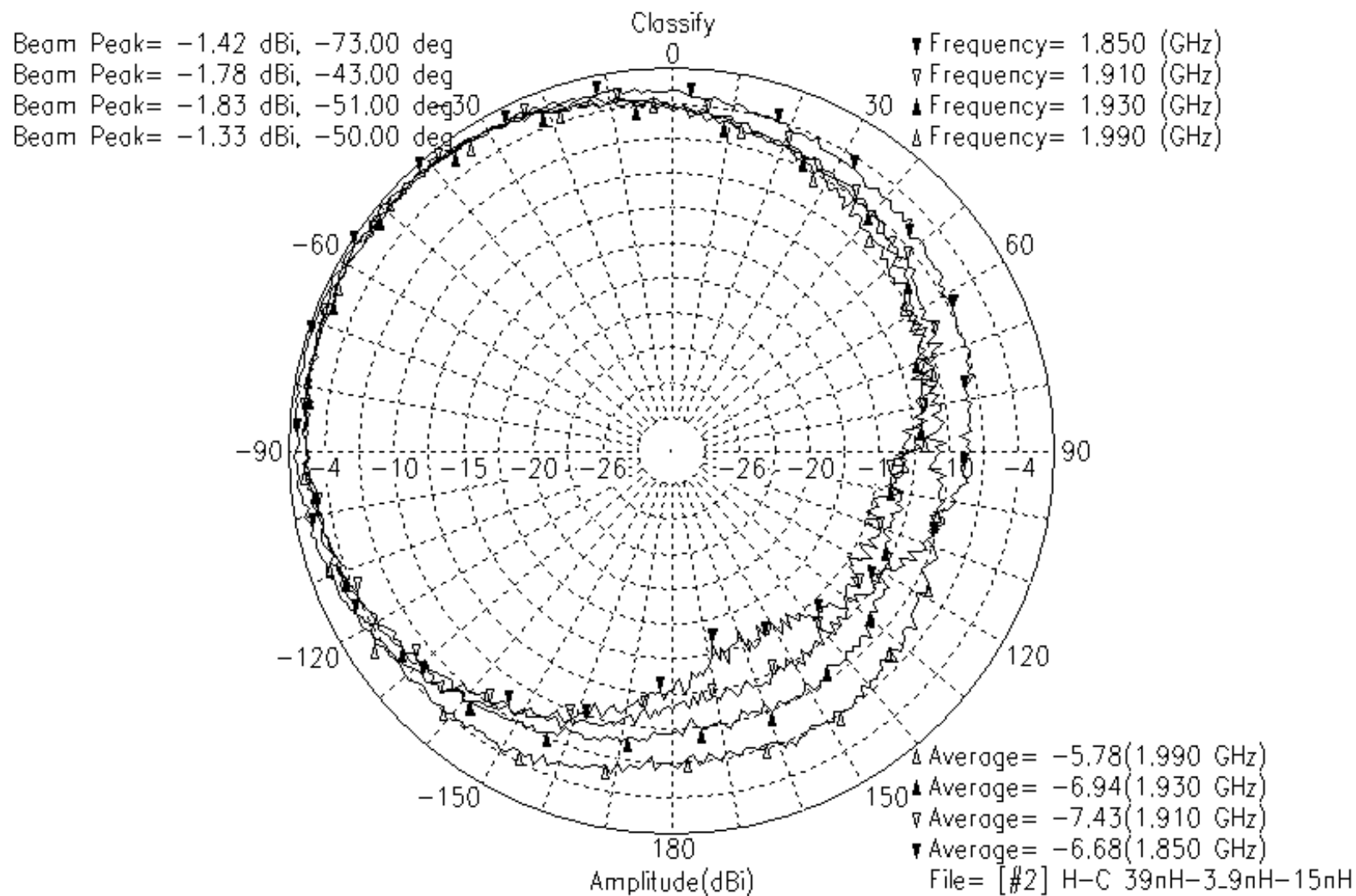
# Antenna Radiation Pattern

## PCS-E2-FOLDER OPENED



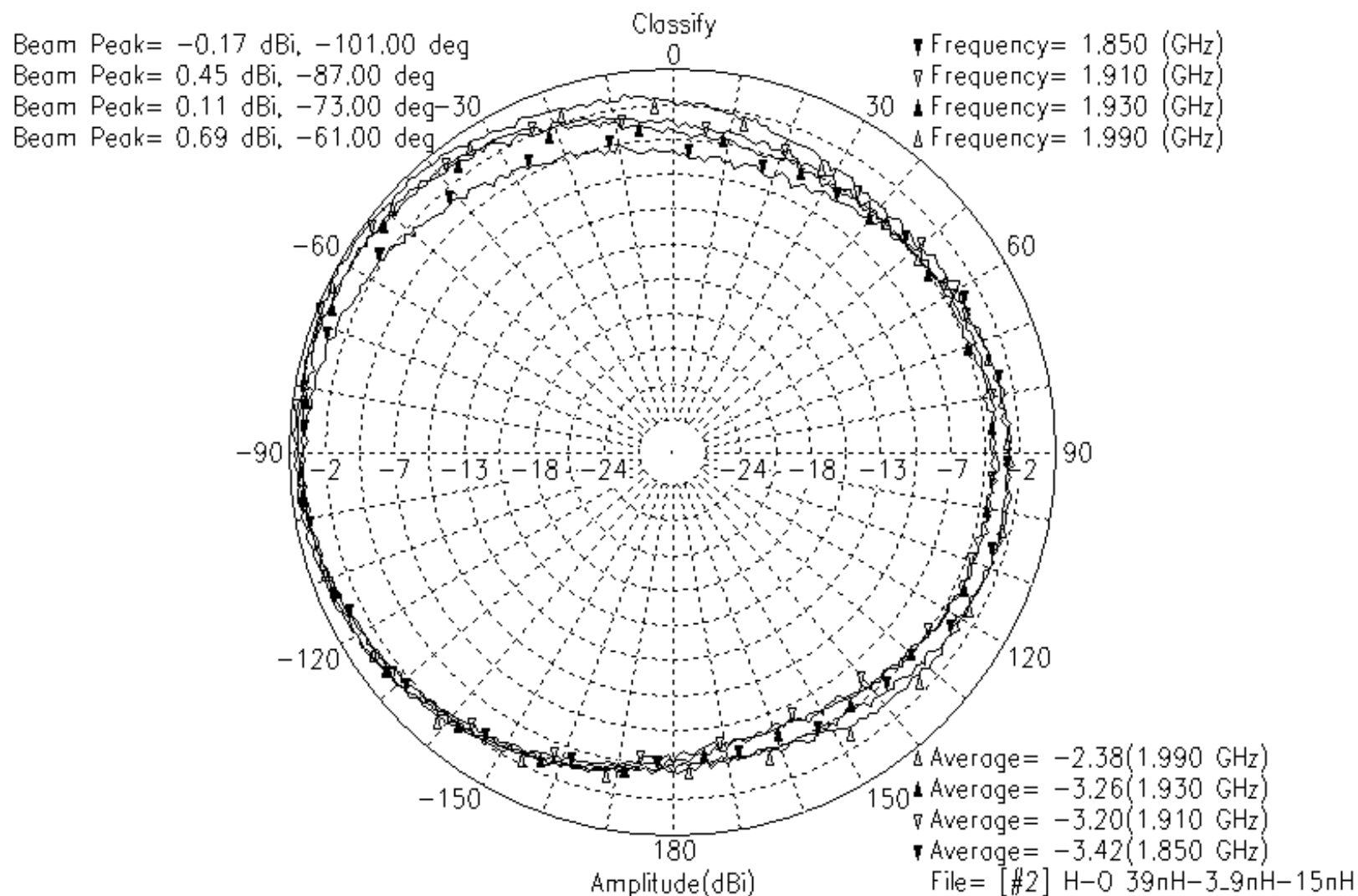
# Antenna Radiation Pattern

## PCS-H-FOLDER CLOSED



# Antenna Radiation Pattern

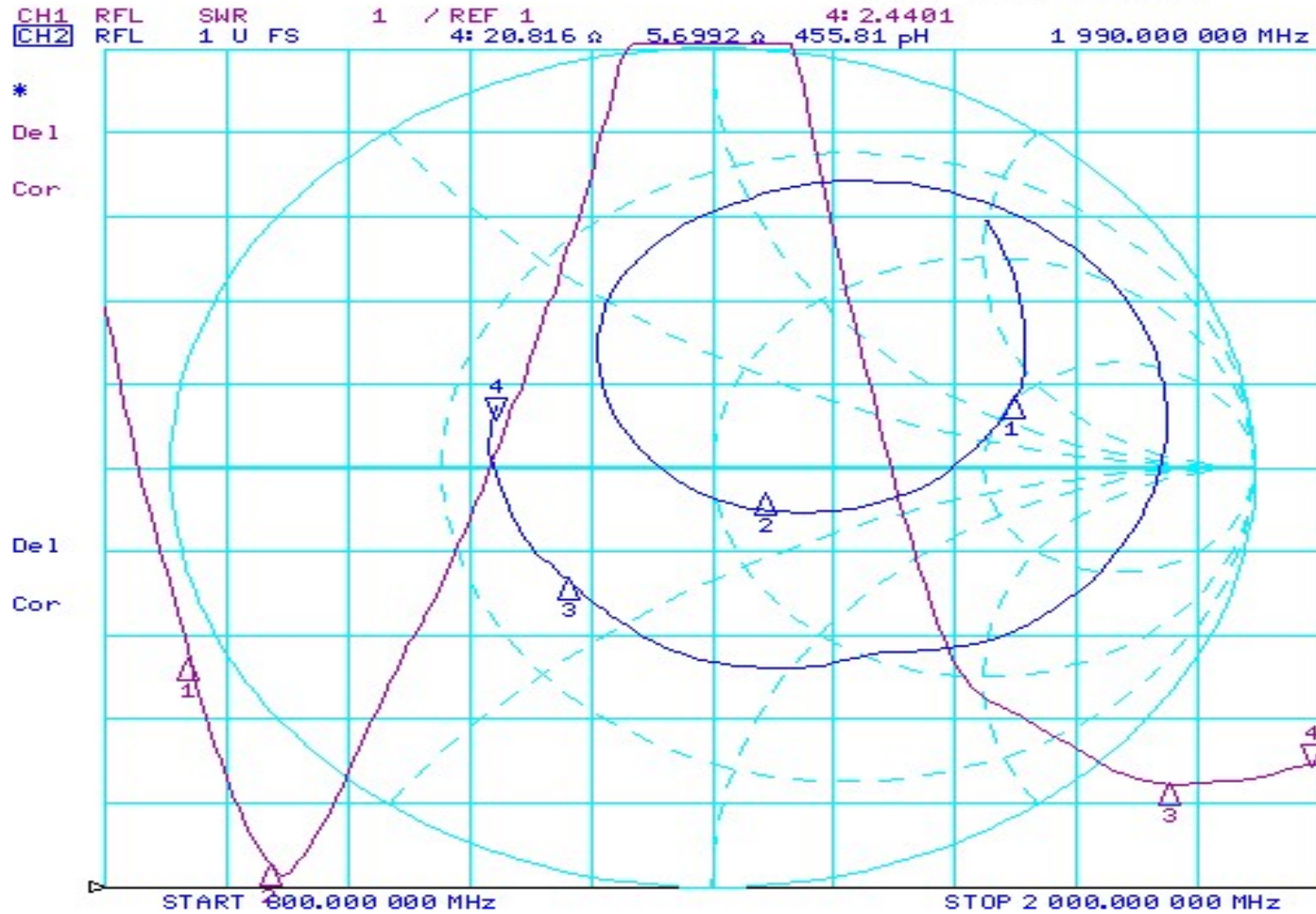
## PCS-H-FOLDER OPENED



# Antenna Radiation Pattern

## VSWR

22 Jul 2003 04:25:14



CH1 Markers

- 1: 3.7113  
880.000 MHz
- 2: 1.2587  
960.000 MHz
- 3: 2.2238  
1.85000 GHz

CH2 Markers

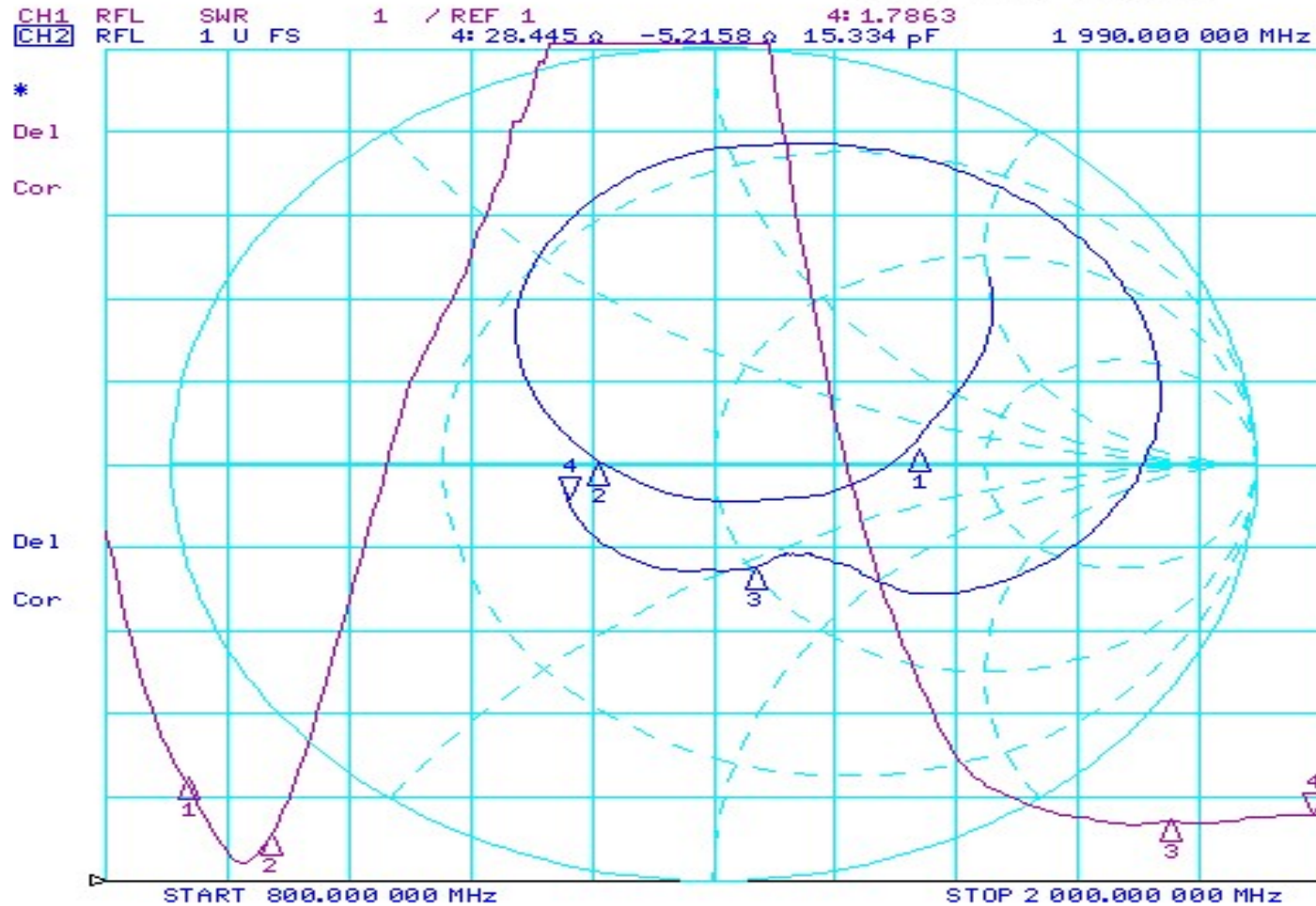
- 1: 146.00 72.070 880.000 MHz
- 2: 59.701 -7.9160 960.000 MHz
- 3: 25.393 -15.804 1.85000 GHz

Folder Close

# Antenna Radiation Pattern

## VSWR

22 Jul 2003 04:25:51



CH1 Markers

- 1: 2.2100  
880.000 MHz
- 2: 1.5561  
960.000 MHz
- 3: 1.7074  
1.85000 GHz

CH2 Markers

- 1: 109.66  $\Omega$   
7.7461  $\Omega$   
880.000 MHz
- 2: 32.201  $\Omega$   
-191.41 m $\Omega$   
960.000 MHz
- 3: 50.354  $\Omega$   
-27.164  $\Omega$   
1.85000 GHz

Folder Open

# Antenna Radiation Pattern