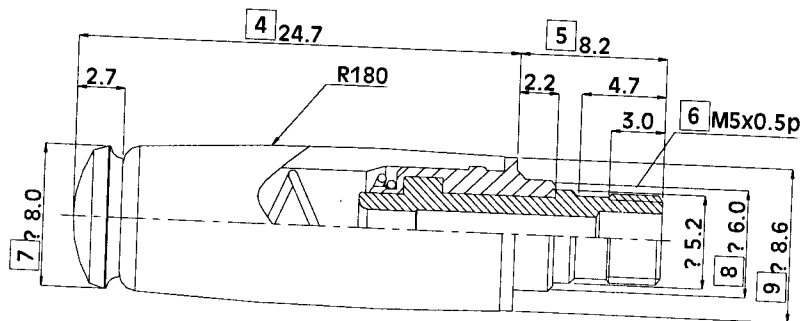




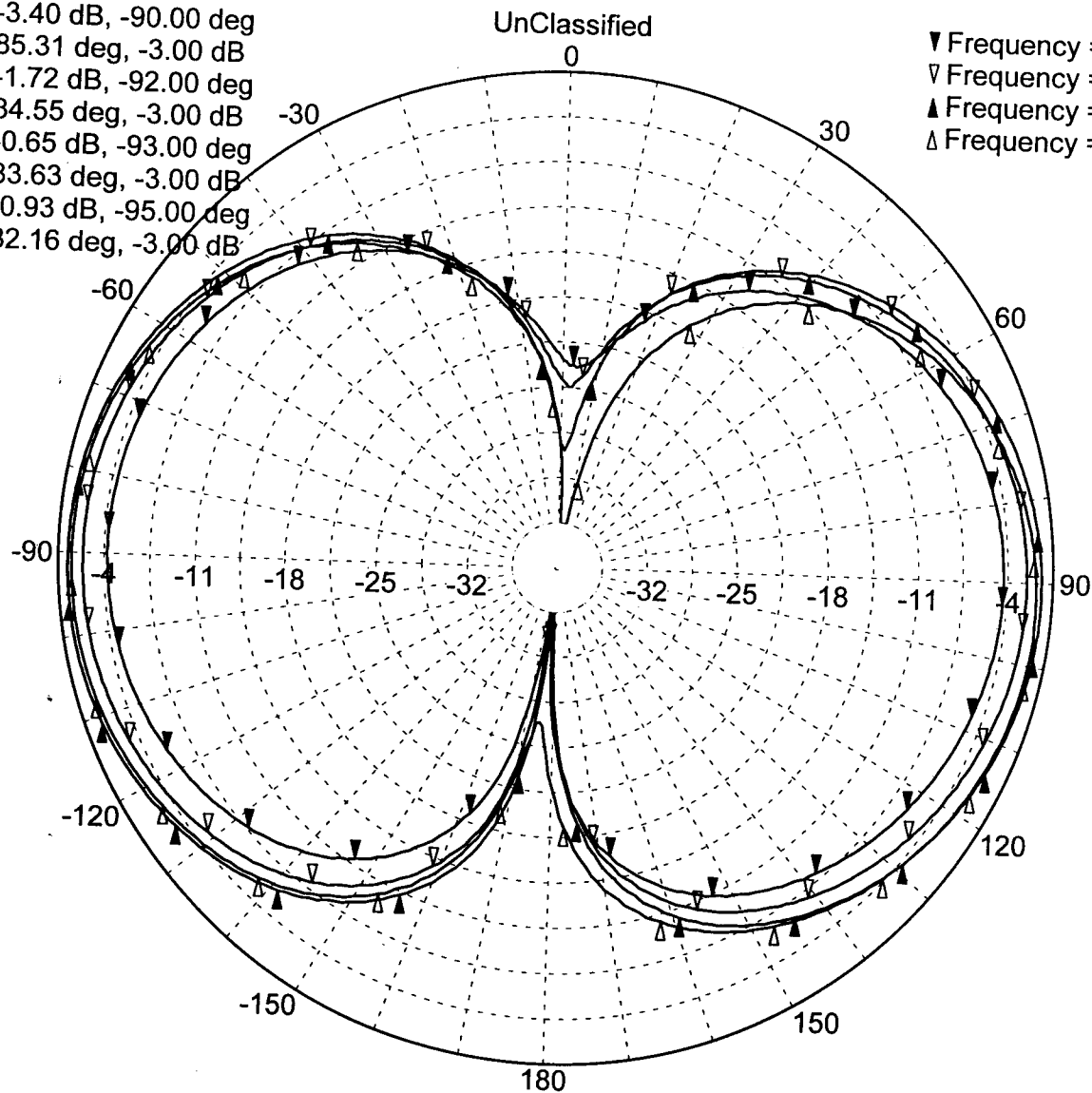
1. 일반공차 :  $\pm 0.2$
2. TOP FORCE : 100~400gf  
STOPPER FORCE : 100~400gf

|                |                               |               |         |                 |               |                          |
|----------------|-------------------------------|---------------|---------|-----------------|---------------|--------------------------|
| 7              | N/A                           | GUIDE TUBE    | 1       | P.P             | COLOR : BLACK | IR                       |
| 6              | N/A                           | STOPPER ASS'Y | 1       | N/A             | 우전해 Ni PLATED | IR                       |
| 5              | N/A                           | ELEMENT       | 1       | N.T. WIRE       | URETHANE TUBE | IR                       |
| 4              | N/A                           | METAL         | 1       | KSD5101-C3604   | 우전해 Ni PLATED | IR                       |
| 3              | N/A                           | FRAME         | 1       | A B S           | COLOR : BLACK | IR                       |
| 2              | N/A                           | COVER         | 1       | URETHANE(S155D) | COLOR : BLACK | IR                       |
| 1              | N/A                           | TOP           | 1       | ZYTEL E101L     | COLOR : BLACK | IR                       |
| No.            | PART No.                      | DESCRIPTION   | Q'TY    | MATERIAL        | REMARKS       | REV.                     |
| MATERIAL       | N/A                           | DRAW          | DESIGN  | CHECK           | APPRO.        | TITLE                    |
| FINISH         | N/A                           |               |         |                 |               | ASS'Y                    |
| TOLERANCE      | Decimal<br>X ±0.1<br>XX ±0.05 | Angle<br>1/16 | 000916  |                 |               |                          |
| SCALE          | 2/1                           | UNIT mm       | MODEL   | TM-510          |               | PART No. 10DX71A6A000001 |
| REVISION       | IR                            | SHEET 1       | CP NAME | TMS10 <NEW>     |               | DWG No. 10DX71A6A000001  |
| ACE TECHNOLOGY |                               |               |         |                 |               | A4                       |

# Antenna Radiation Pattern

Beam Peak = -3.40 dB, -90.00 deg  
Beam Width= 85.31 deg, -3.00 dB  
Beam Peak = -1.72 dB, -92.00 deg  
Beam Width= 84.55 deg, -3.00 dB  
Beam Peak = -0.65 dB, -93.00 deg  
Beam Width= 83.63 deg, -3.00 dB  
Beam Peak = -0.93 dB, -95.00 deg  
Beam Width= 82.16 deg, -3.00 dB

▼ Frequency = 0.824 (GHz)  
▽ Frequency = 0.849 (GHz)  
▲ Frequency = 0.869 (GHz)  
△ Frequency = 0.894 (GHz)



File = AMPS\_E1\_R\_Fc.pat



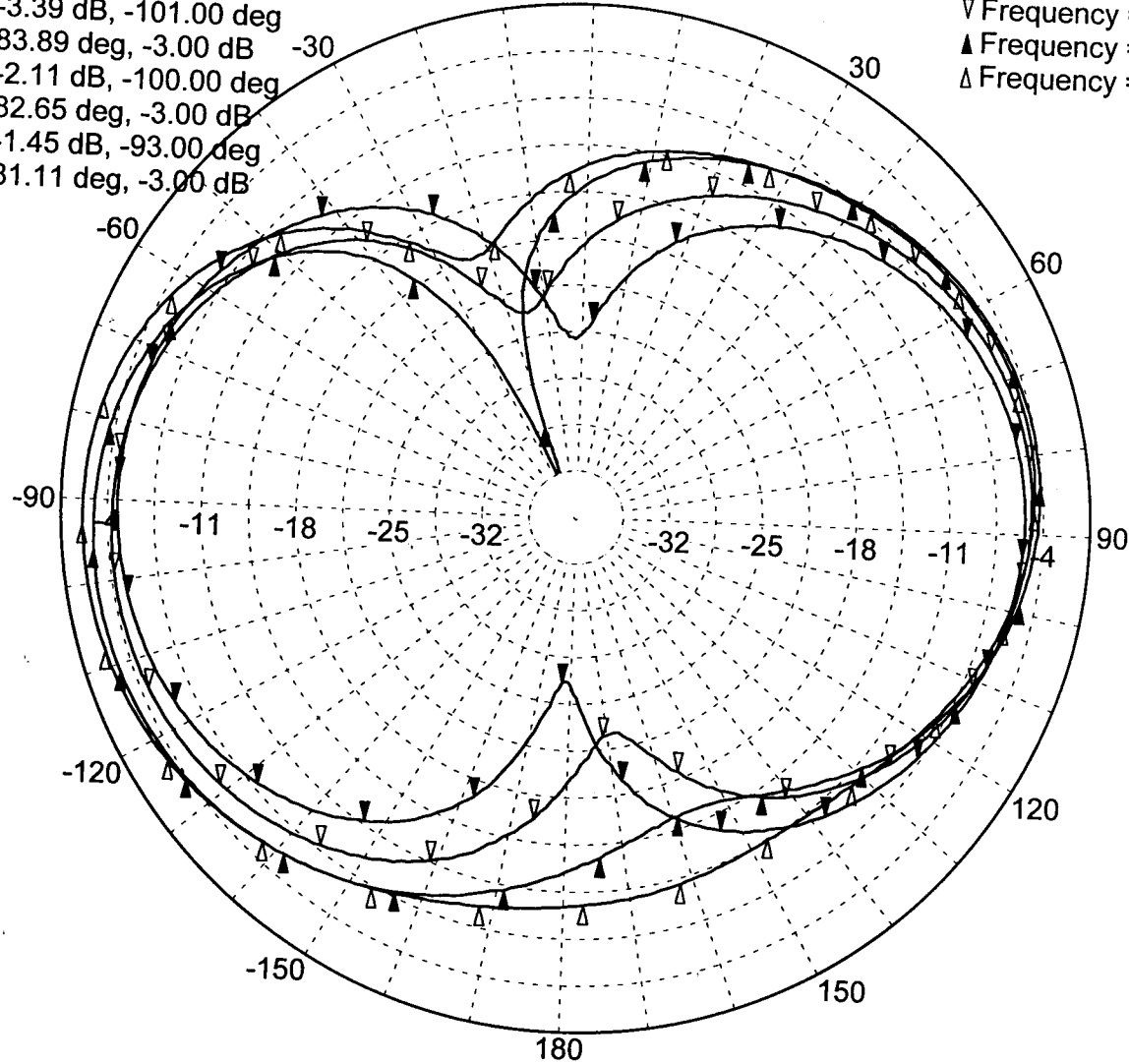
ACE TECHNOLOGY

# Antenna Radiation Pattern

Beam Peak = -3.86 dB, -91.00 deg  
Beam Width= 84.50 deg, -3.00 dB  
Beam Peak = -3.39 dB, -101.00 deg  
Beam Width= 83.89 deg, -3.00 dB  
Beam Peak = -2.11 dB, -100.00 deg  
Beam Width= 82.65 deg, -3.00 dB  
Beam Peak = -1.45 dB, -93.00 deg  
Beam Width= 81.11 deg, -3.00 dB

UnClassified  
0

▼ Frequency = 0.824 (GHz)  
▽ Frequency = 0.849 (GHz)  
▲ Frequency = 0.869 (GHz)  
△ Frequency = 0.894 (GHz)

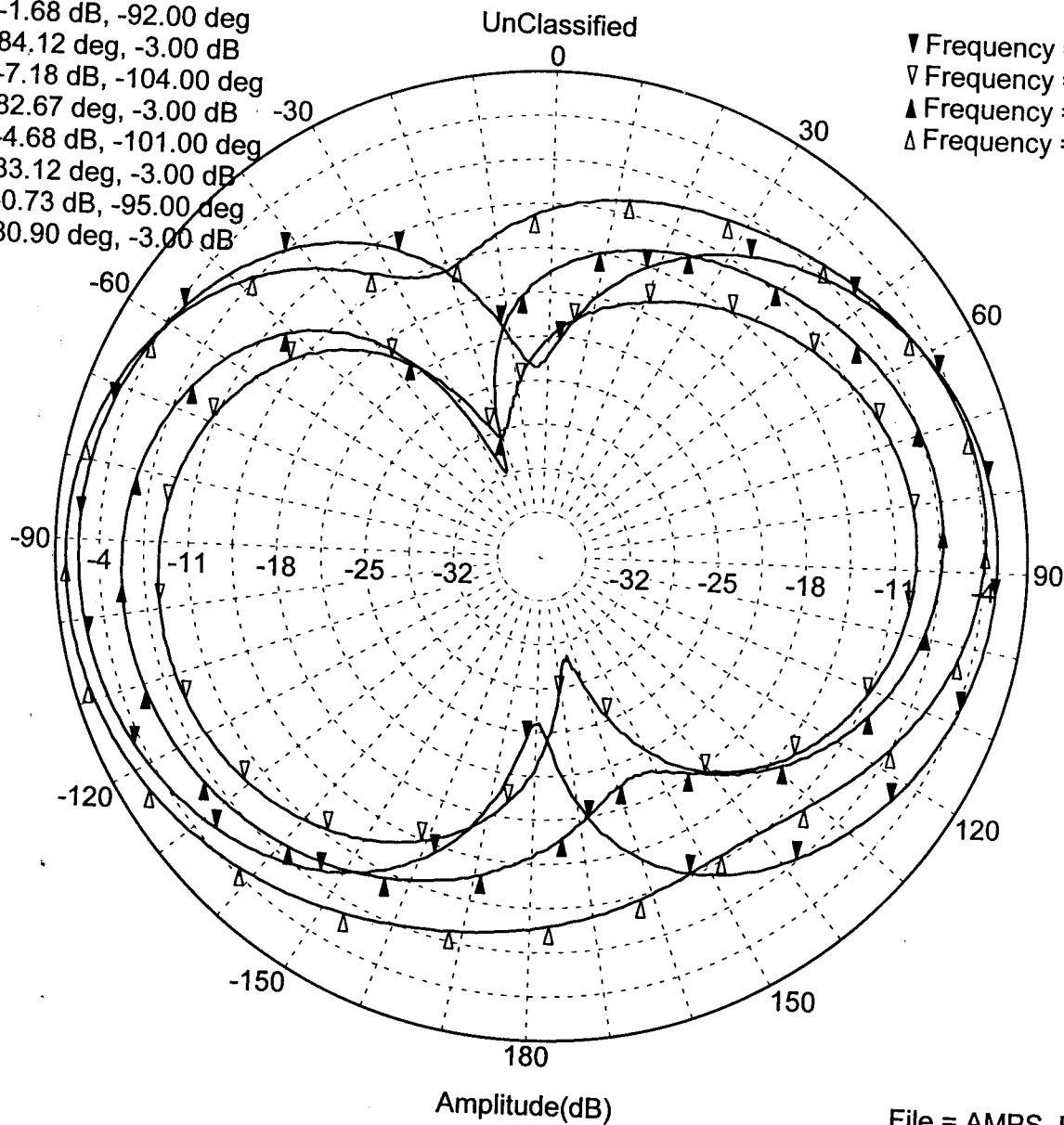


File = AMPS\_E1\_R\_Fo.pat

# Antenna Radiation Pattern

Beam Peak = -1.68 dB, -92.00 deg  
 Beam Width= 84.12 deg, -3.00 dB  
 Beam Peak = -7.18 dB, -104.00 deg  
 Beam Width= 82.67 deg, -3.00 dB  
 Beam Peak = -4.68 dB, -101.00 deg  
 Beam Width= 83.12 deg, -3.00 dB  
 Beam Peak = -0.73 dB, -95.00 deg  
 Beam Width= 80.90 deg, -3.00 dB

▼ Frequency = 0.824 (GHz)  
 ▽ Frequency = 0.849 (GHz)  
 ▲ Frequency = 0.869 (GHz)  
 △ Frequency = 0.894 (GHz)

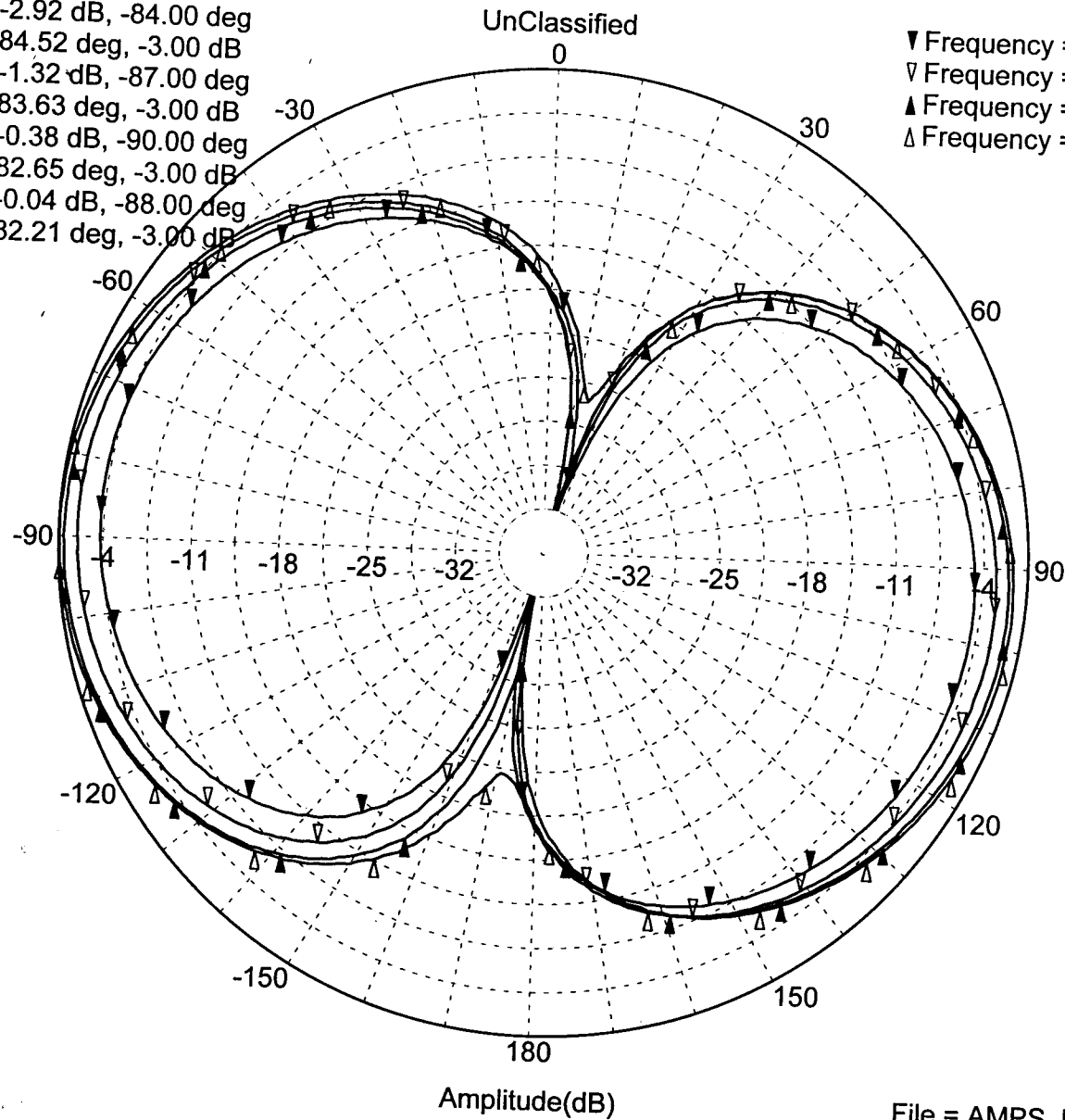


File = AMPS\_E1\_E\_Fo.pat

# Antenna Radiation Pattern

Beam Peak = -2.92 dB, -84.00 deg  
 Beam Width= 84.52 deg, -3.00 dB  
 Beam Peak = -1.32 dB, -87.00 deg  
 Beam Width= 83.63 deg, -3.00 dB  
 Beam Peak = -0.38 dB, -90.00 deg  
 Beam Width= 82.65 deg, -3.00 dB  
 Beam Peak = -0.04 dB, -88.00 deg  
 Beam Width= 82.21 deg, -3.00 dB

▼ Frequency = 0.824 (GHz)  
 ▽ Frequency = 0.849 (GHz)  
 ▲ Frequency = 0.869 (GHz)  
 △ Frequency = 0.894 (GHz)



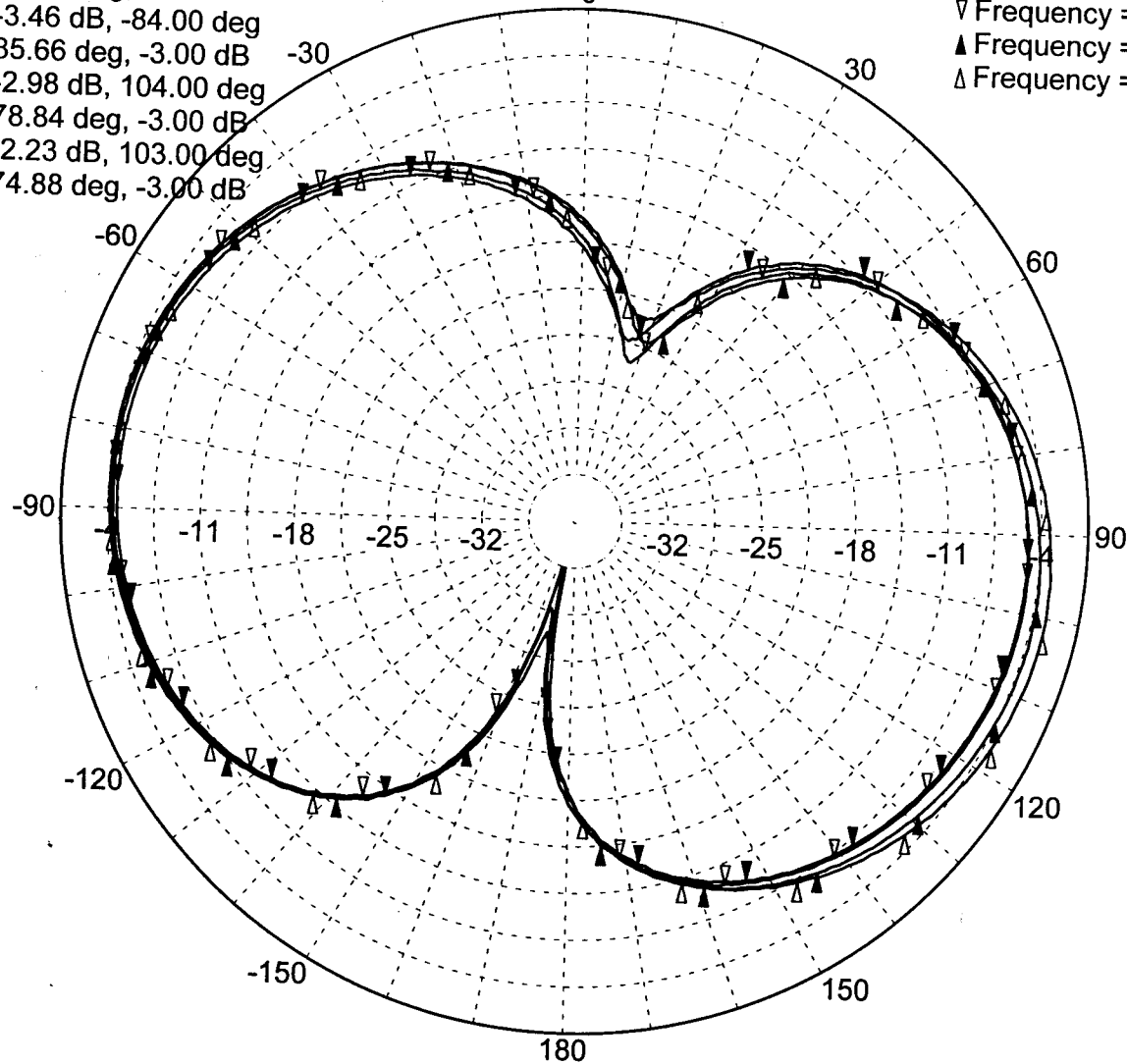
File = AMPS\_E2\_R\_Fc.pat

# Antenna Radiation Pattern

Beam Peak = -3.76 dB, -84.00 deg  
Beam Width= 86.47 deg, -3.00 dB  
Beam Peak = -3.46 dB, -84.00 deg  
Beam Width= 85.66 deg, -3.00 dB  
Beam Peak = -2.98 dB, 104.00 deg  
Beam Width= 78.84 deg, -3.00 dB  
Beam Peak = -2.23 dB, 103.00 deg  
Beam Width= 74.88 deg, -3.00 dB

UnClassified

▼ Frequency = 0.824 (GHz)  
▽ Frequency = 0.849 (GHz)  
▲ Frequency = 0.869 (GHz)  
△ Frequency = 0.894 (GHz)



Amplitude(dB)

File = AMPS\_E2\_R\_Fo.pat



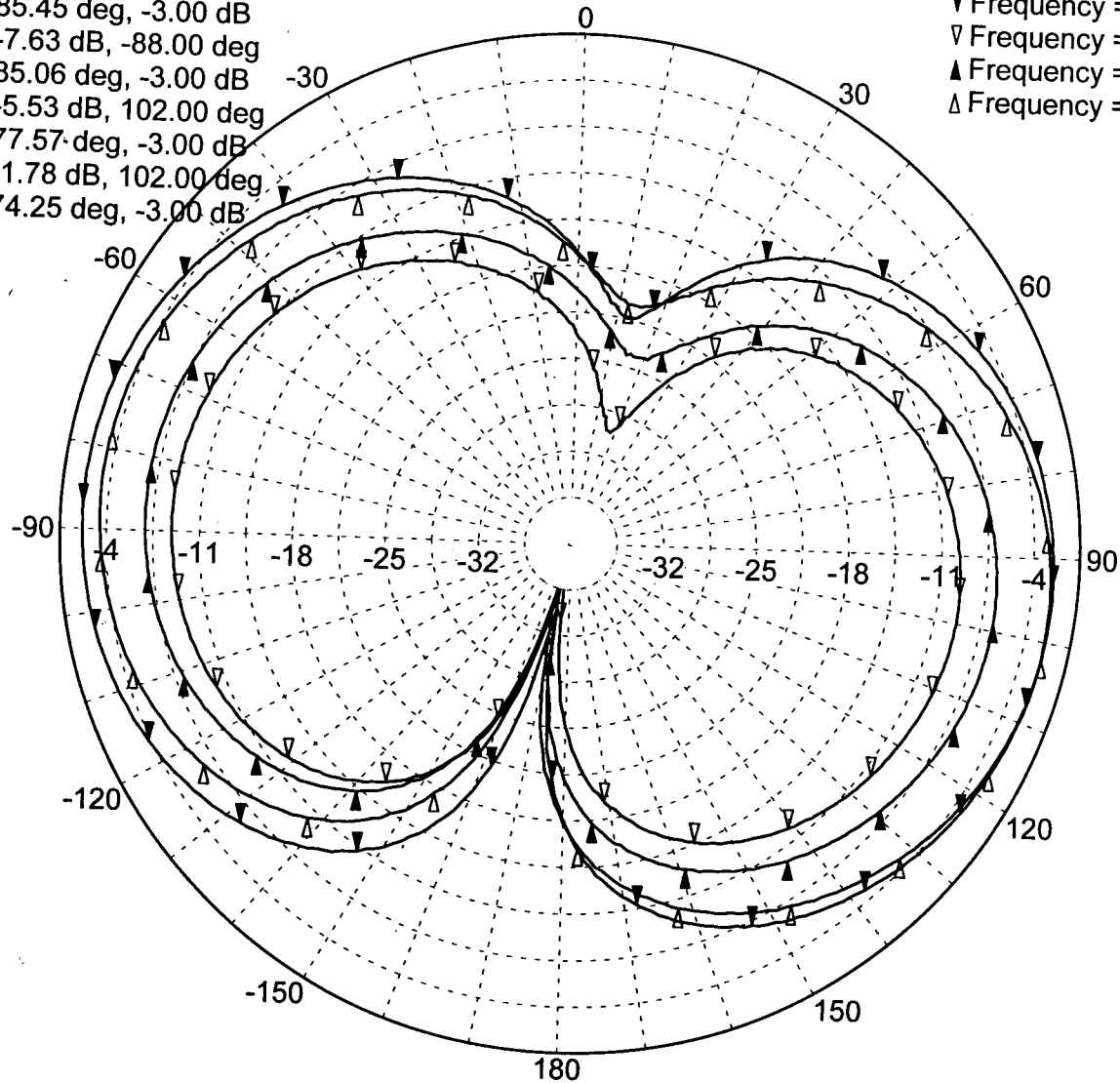
ACE TECHNOLOGY

# Antenna Radiation Pattern

Beam Peak = -1.51 dB, -88.00 deg  
 Beam Width= 85.45 deg, -3.00 dB  
 Beam Peak = -7.63 dB, -88.00 deg  
 Beam Width= 85.06 deg, -3.00 dB  
 Beam Peak = -5.53 dB, 102.00 deg  
 Beam Width= 77.57 deg, -3.00 dB  
 Beam Peak = -1.78 dB, 102.00 deg  
 Beam Width= 74.25 deg, -3.00 dB

UnClassified

▼ Frequency = 0.824 (GHz)  
 ▽ Frequency = 0.849 (GHz)  
 ▲ Frequency = 0.869 (GHz)  
 △ Frequency = 0.894 (GHz)



Amplitude(dB)

File = AMPS\_E2\_E\_Fo.pat



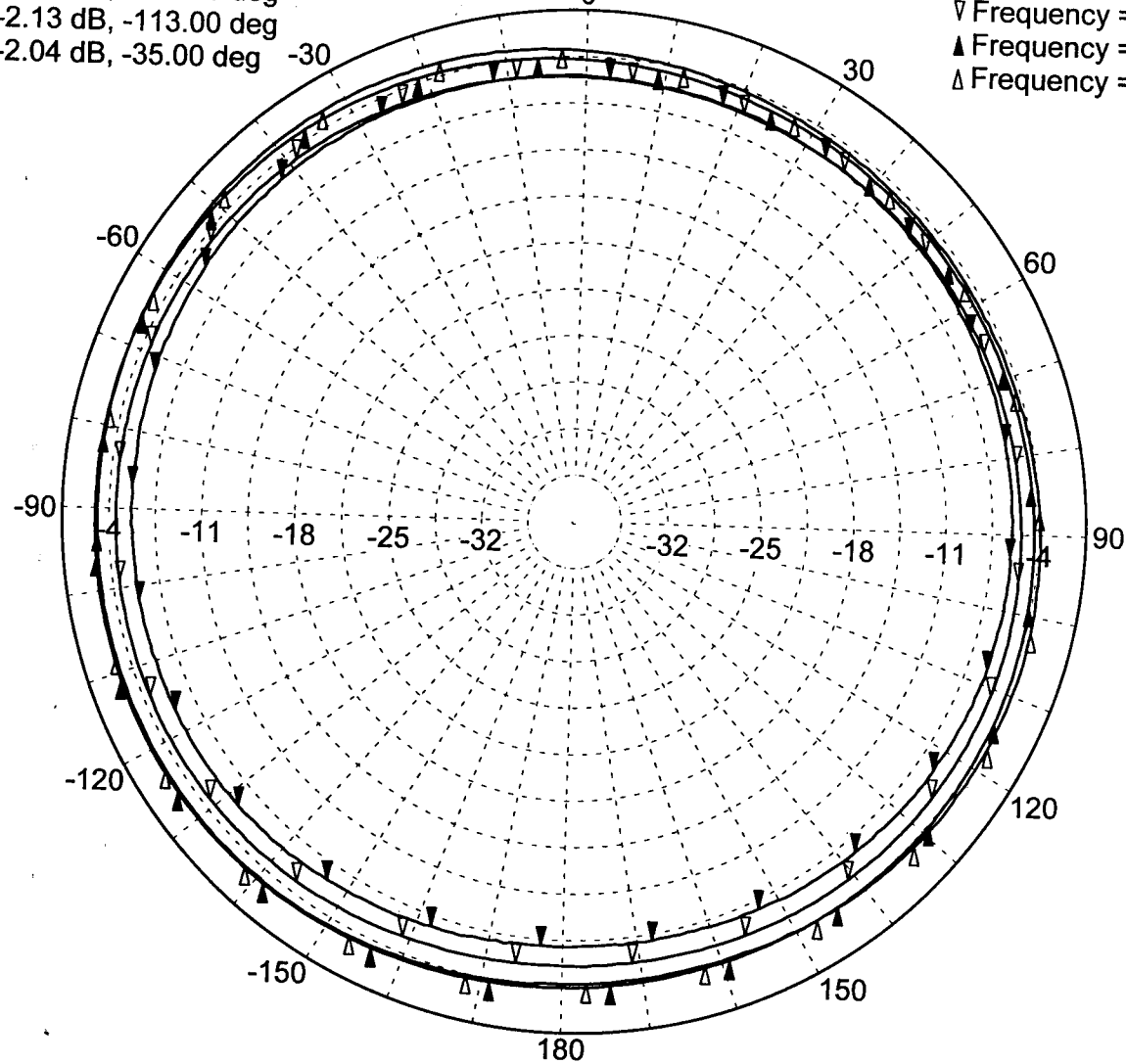
ACE TECHNOLOGY

# Antenna Radiation Pattern

Beam Peak = -4.20 dB, -35.00 deg  
Beam Peak = -3.59 dB, -110.00 deg  
Beam Peak = -2.13 dB, -113.00 deg  
Beam Peak = -2.04 dB, -35.00 deg

UnClassified

▼ Frequency = 0.824 (GHz)  
▽ Frequency = 0.849 (GHz)  
▲ Frequency = 0.869 (GHz)  
△ Frequency = 0.894 (GHz)



Amplitude(dB)

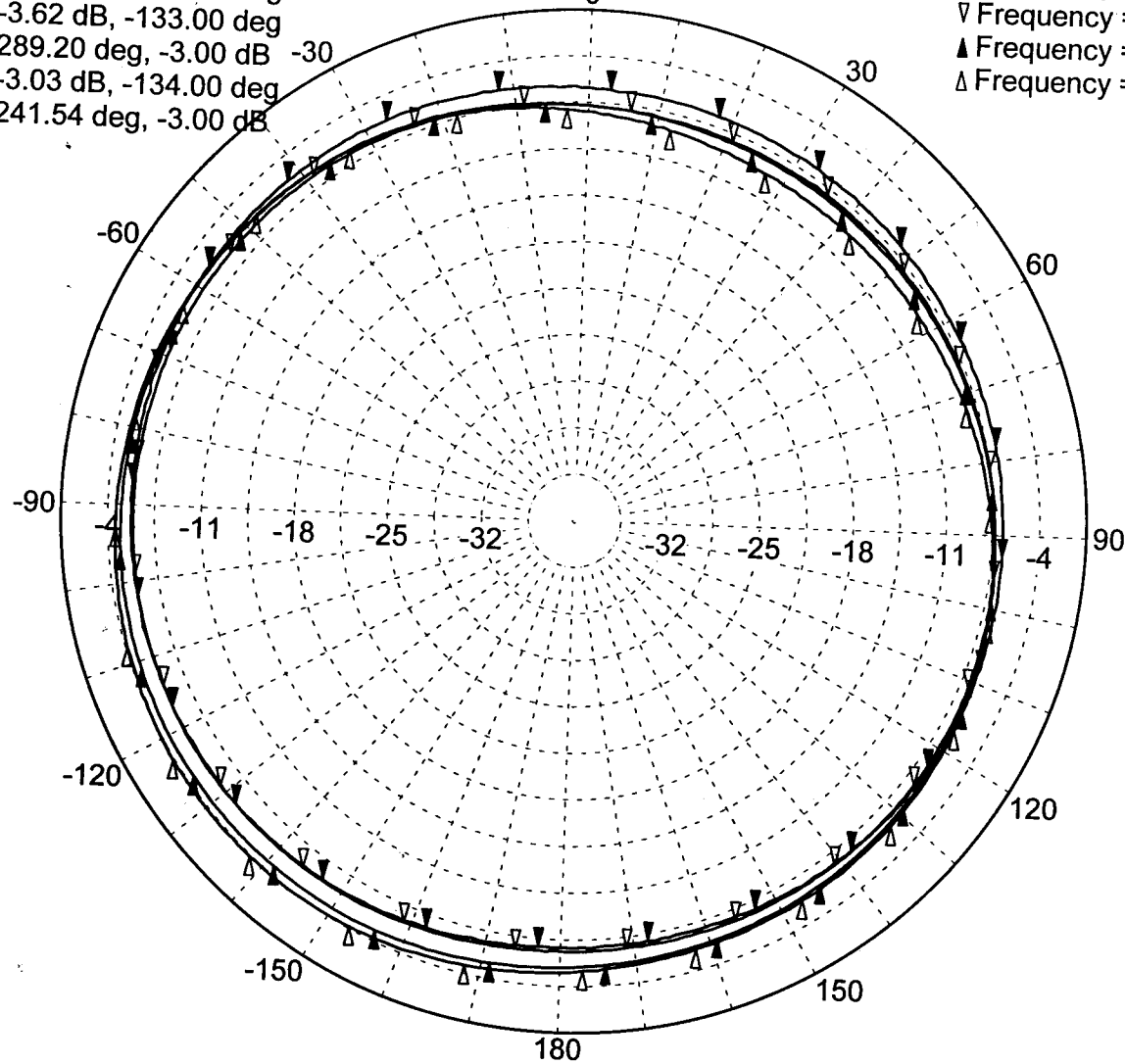
File = AMPS\_H\_R\_Fc.pat

# Antenna Radiation Pattern

Beam Peak = -4.60 dB, -48.00 deg  
Beam Peak = -4.73 dB, -122.00 deg  
Beam Peak = -3.62 dB, -133.00 deg  
Beam Width= 289.20 deg, -3.00 dB  
Beam Peak = -3.03 dB, -134.00 deg  
Beam Width= 241.54 deg, -3.00 dB

UnClassified

▼ Frequency = 0.824 (GHz)  
▽ Frequency = 0.849 (GHz)  
▲ Frequency = 0.869 (GHz)  
△ Frequency = 0.894 (GHz)



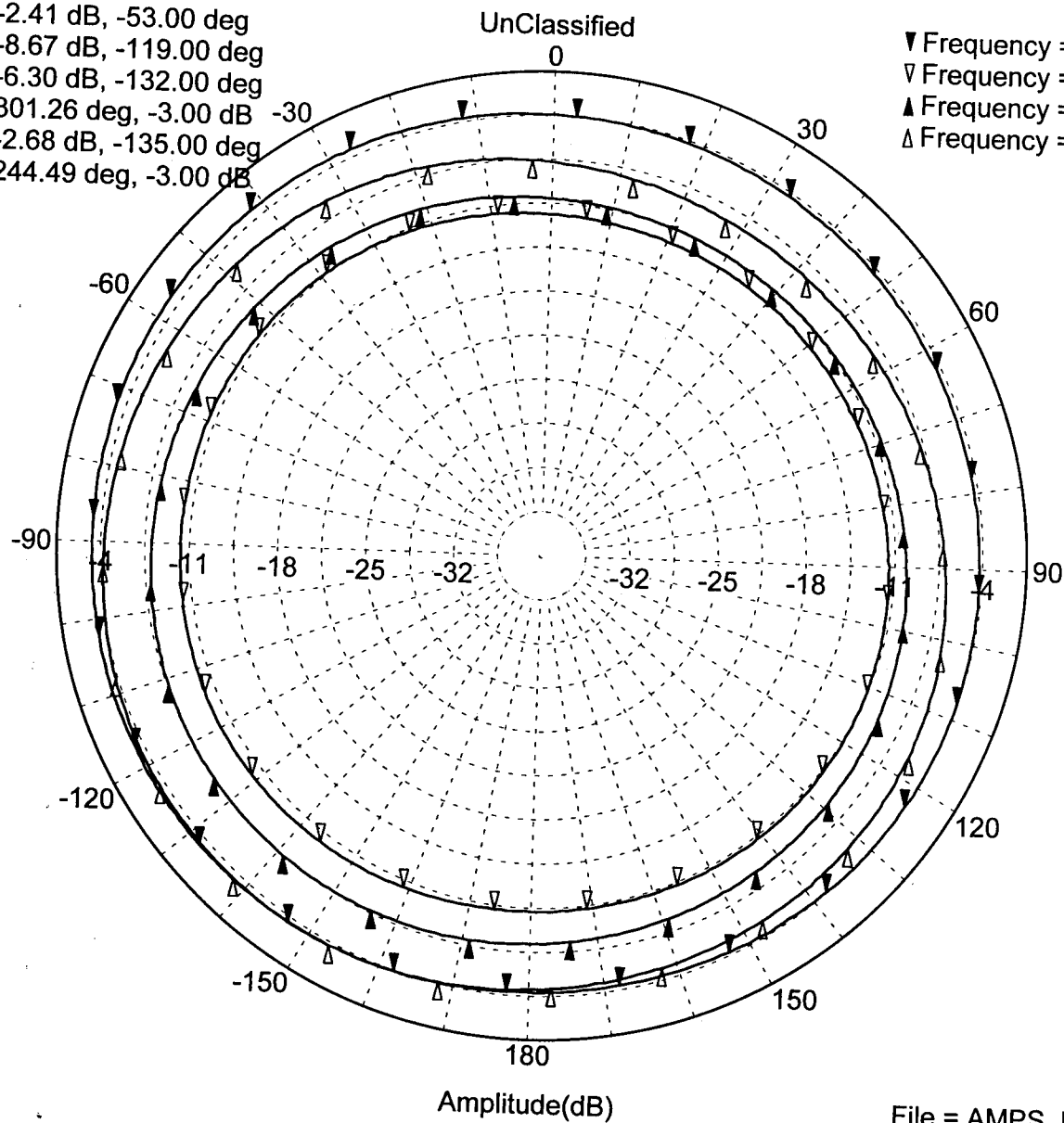
Amplitude(dB)

File = AMPS\_H\_R\_Fo.pat

# Antenna Radiation Pattern

Beam Peak = -2.41 dB, -53.00 deg  
 Beam Peak = -8.67 dB, -119.00 deg  
 Beam Peak = -6.30 dB, -132.00 deg  
 Beam Width= 301.26 deg, -3.00 dB  
 Beam Peak = -2.68 dB, -135.00 deg  
 Beam Width= 244.49 deg, -3.00 dB

▼ Frequency = 0.824 (GHz)  
 ▽ Frequency = 0.849 (GHz)  
 ▲ Frequency = 0.869 (GHz)  
 △ Frequency = 0.894 (GHz)



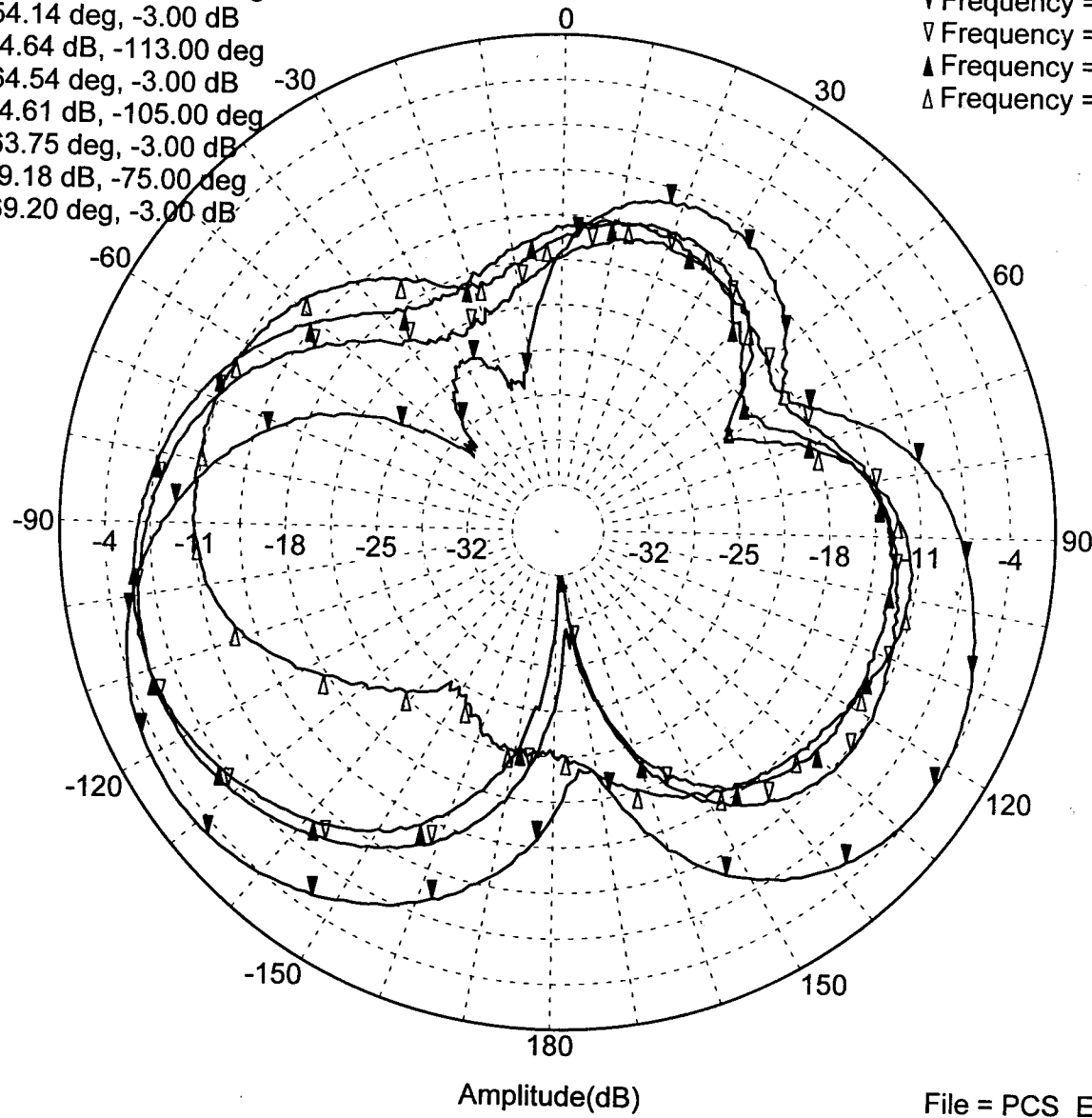
File = AMPS\_H\_E\_Fo.pat

# Antenna Radiation Pattern

Beam Peak = -2.19 dB, -125.00 deg  
Beam Width= 54.14 deg, -3.00 dB  
Beam Peak = -4.64 dB, -113.00 deg  
Beam Width= 64.54 deg, -3.00 dB  
Beam Peak = -4.61 dB, -105.00 deg  
Beam Width= 63.75 deg, -3.00 dB  
Beam Peak = -9.18 dB, -75.00 deg  
Beam Width= 69.20 deg, -3.00 dB

UnClassified

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



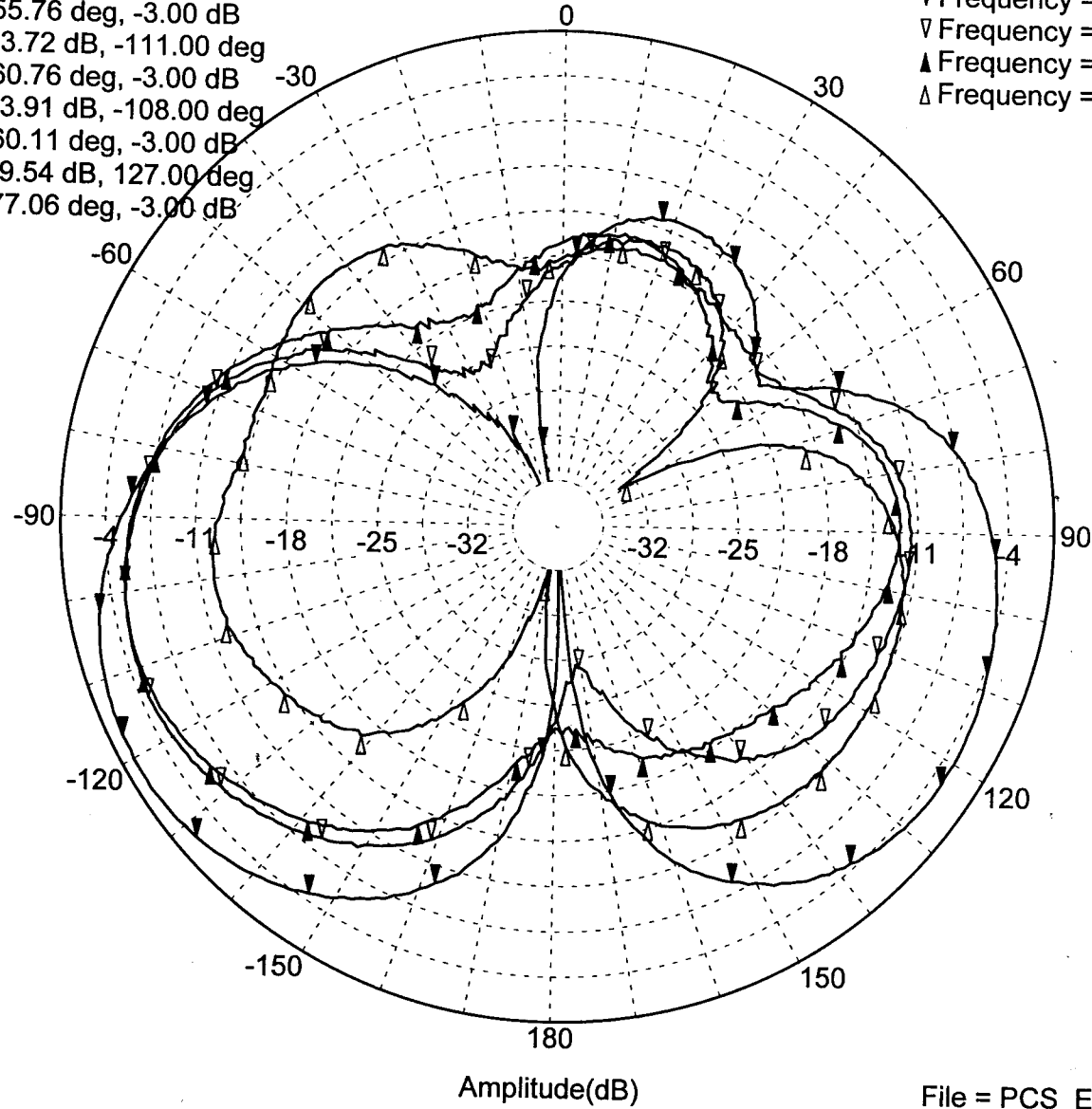
File = PCS\_E1\_R\_Fc.pat

# Antenna Radiation Pattern

Beam Peak = -0.89 dB, -124.00 deg  
Beam Width= 55.76 deg, -3.00 dB  
Beam Peak = -3.72 dB, -111.00 deg  
Beam Width= 60.76 deg, -3.00 dB  
Beam Peak = -3.91 dB, -108.00 deg  
Beam Width= 60.11 deg, -3.00 dB  
Beam Peak = -9.54 dB, 127.00 deg  
Beam Width= 77.06 deg, -3.00 dB

UnClassified

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



File = PCS\_E1\_R\_Fo.pat



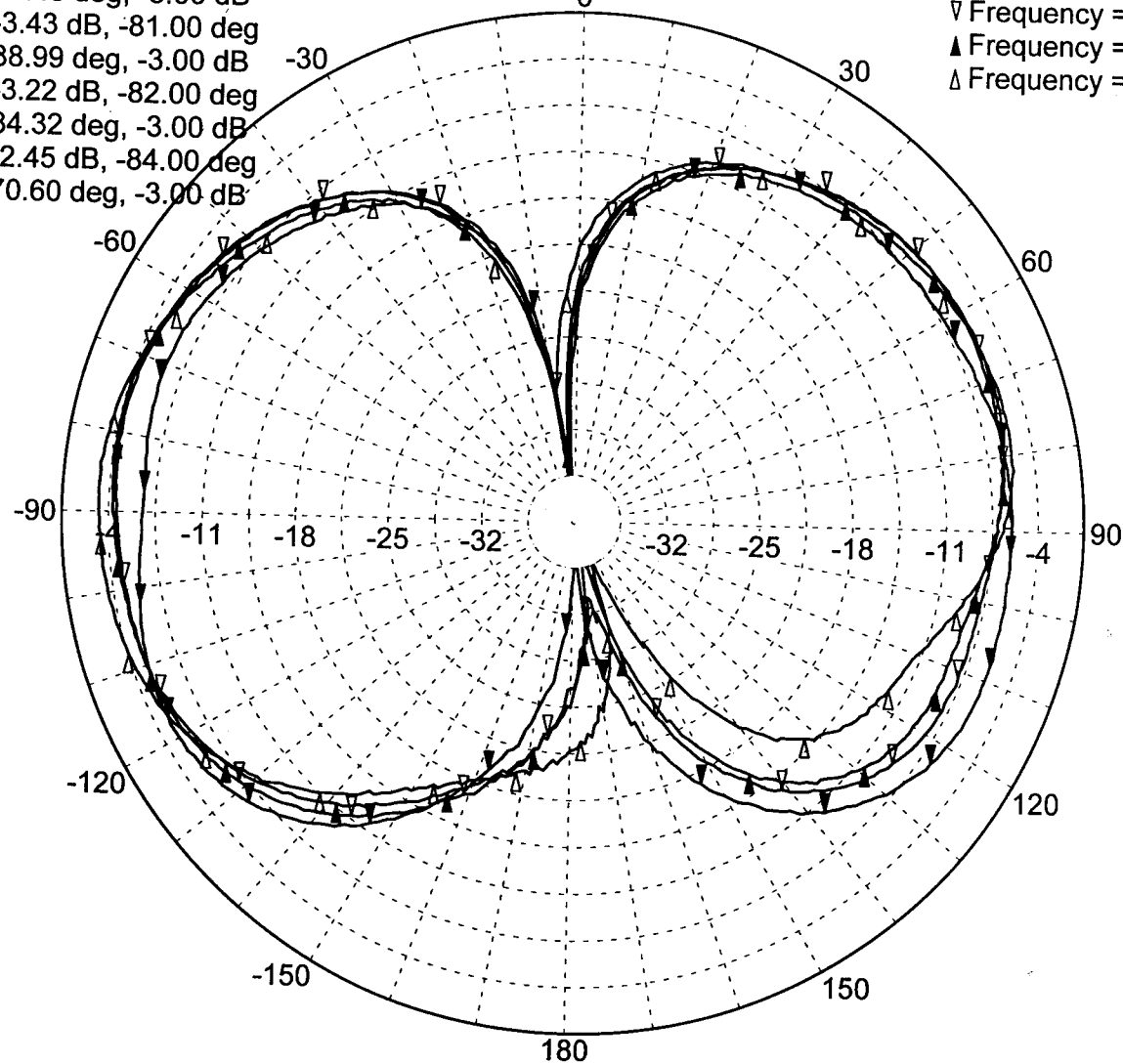
ACE TECHNOLOGY

# Antenna Radiation Pattern

Beam Peak = -4.07 dB, -118.00 deg  
Beam Width= 91.48 deg, -3.00 dB  
Beam Peak = -3.43 dB, -81.00 deg  
Beam Width= 88.99 deg, -3.00 dB  
Beam Peak = -3.22 dB, -82.00 deg  
Beam Width= 84.32 deg, -3.00 dB  
Beam Peak = -2.45 dB, -84.00 deg  
Beam Width= 70.60 deg, -3.00 dB

UnClassified  
0

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



Amplitude(dB)

File = PCS\_E1\_E\_Fo.pat



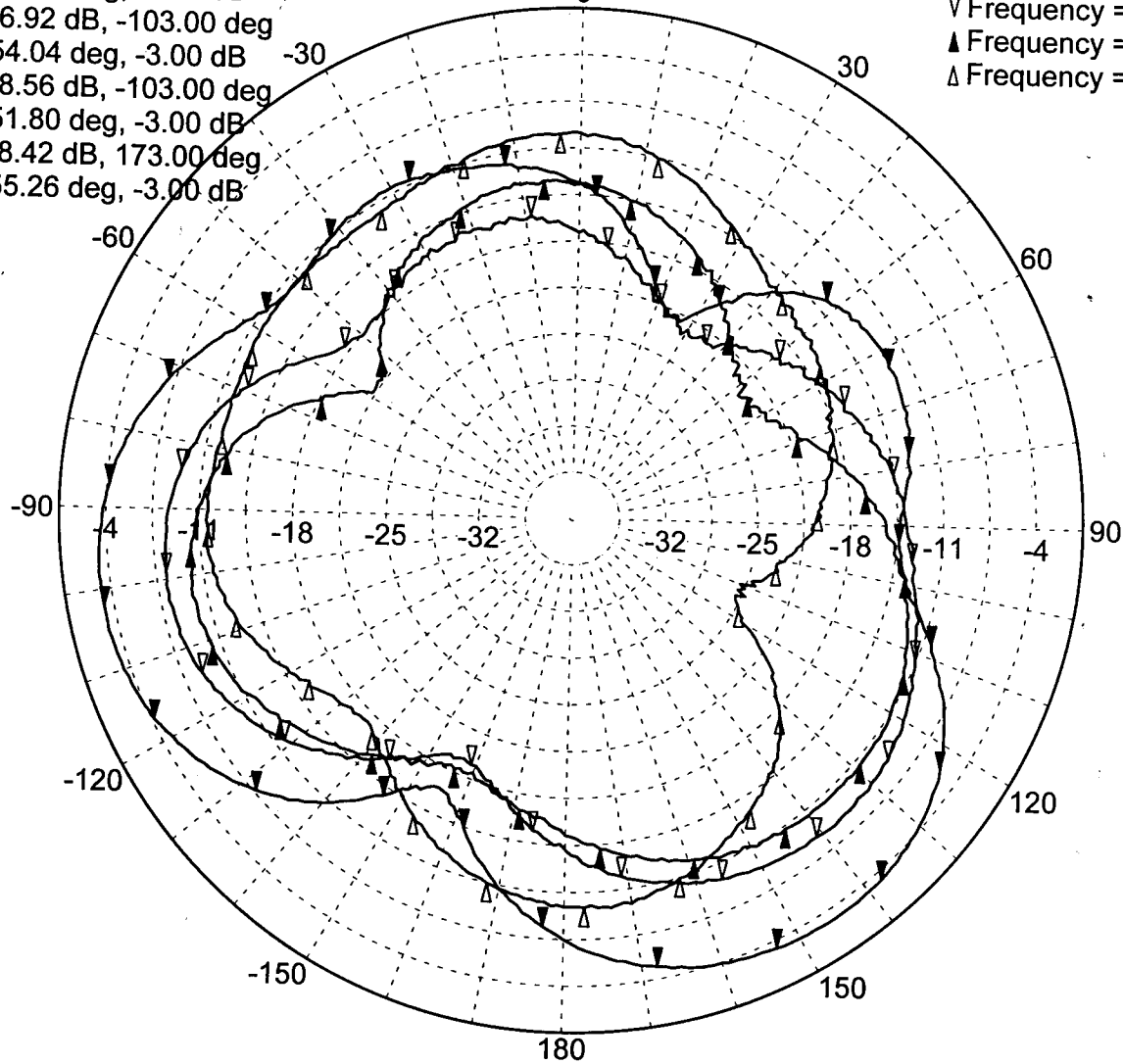
ACE TECHNOLOGY

# Antenna Radiation Pattern

Beam Peak = -2.44 dB, 145.00 deg  
 Beam Width= 56.74 deg, -3.00 dB  
 Beam Peak = -6.92 dB, -103.00 deg  
 Beam Width= 54.04 deg, -3.00 dB  
 Beam Peak = -8.56 dB, -103.00 deg  
 Beam Width= 51.80 deg, -3.00 dB  
 Beam Peak = -8.42 dB, 173.00 deg  
 Beam Width= 55.26 deg, -3.00 dB

UnClassified  
0

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



Amplitude(dB)

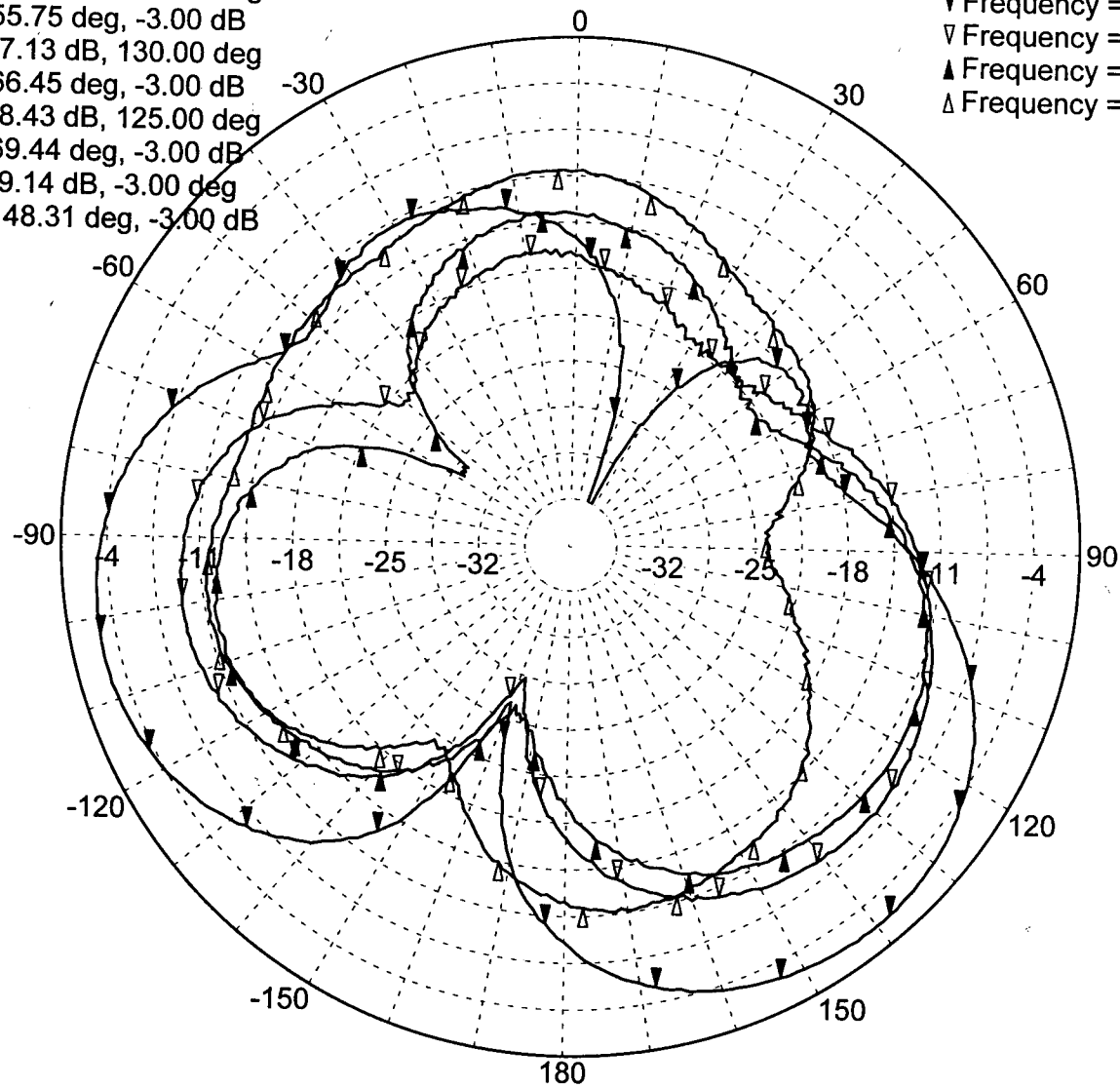
File = PCS\_E2\_R\_Fc.pat

# Antenna Radiation Pattern

Beam Peak = -1.52 dB, 139.00 deg  
Beam Width= 55.75 deg, -3.00 dB  
Beam Peak = -7.13 dB, 130.00 deg  
Beam Width= 66.45 deg, -3.00 dB  
Beam Peak = -8.43 dB, 125.00 deg  
Beam Width= 69.44 deg, -3.00 dB  
Beam Peak = -9.14 dB, -3.00 deg  
Beam Width= 148.31 deg, -3.00 dB

UnClassified

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



Amplitude(dB)

File = PCS\_E2\_R\_Fo.pat



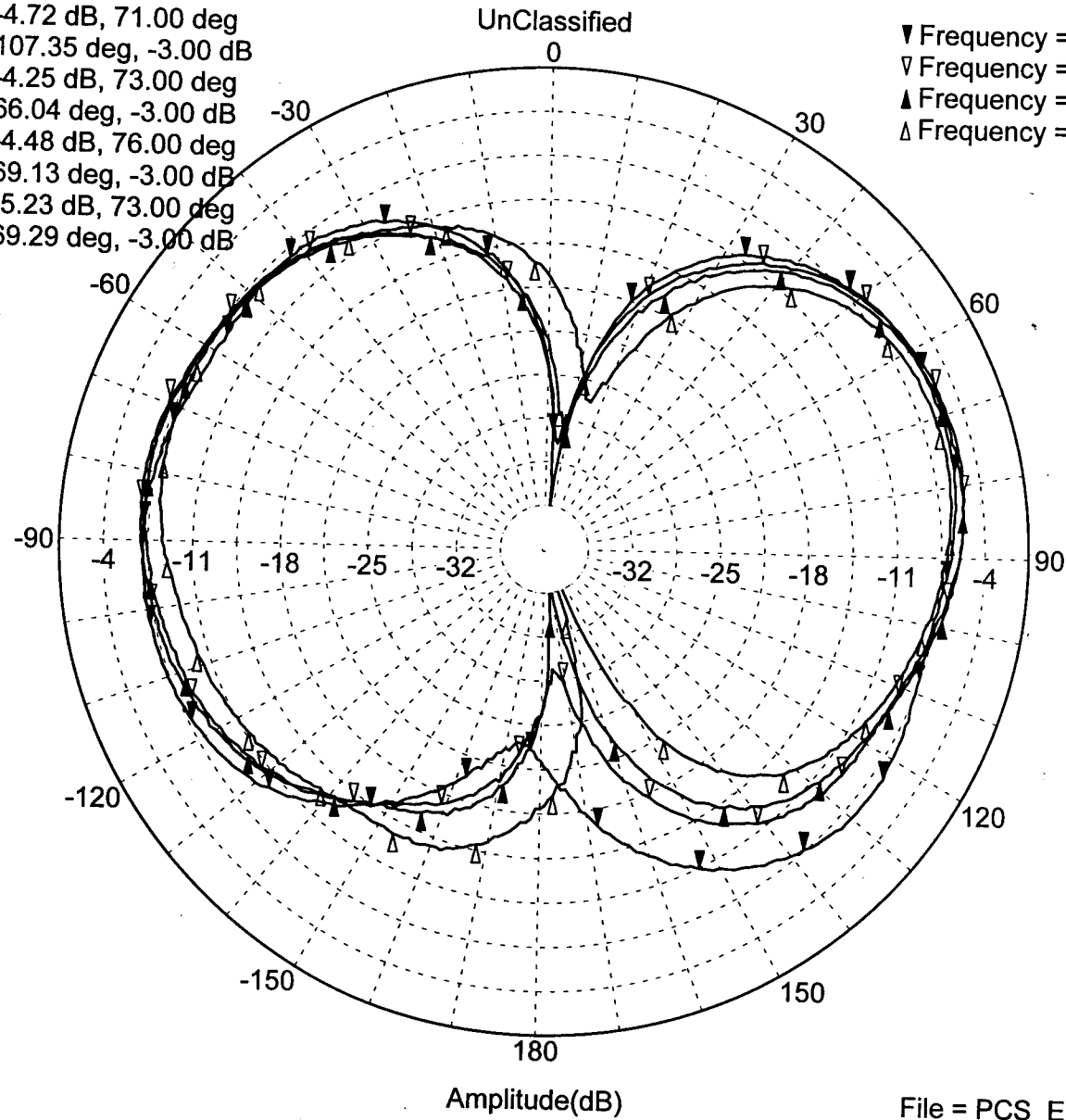
ACE TECHNOLOGY

# Antenna Radiation Pattern

Beam Peak = -4.72 dB, 71.00 deg  
Beam Width= 107.35 deg, -3.00 dB  
Beam Peak = -4.25 dB, 73.00 deg  
Beam Width= 66.04 deg, -3.00 dB  
Beam Peak = -4.48 dB, 76.00 deg  
Beam Width= 69.13 deg, -3.00 dB  
Beam Peak = -5.23 dB, 73.00 deg  
Beam Width= 69.29 deg, -3.00 dB

UnClassified

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



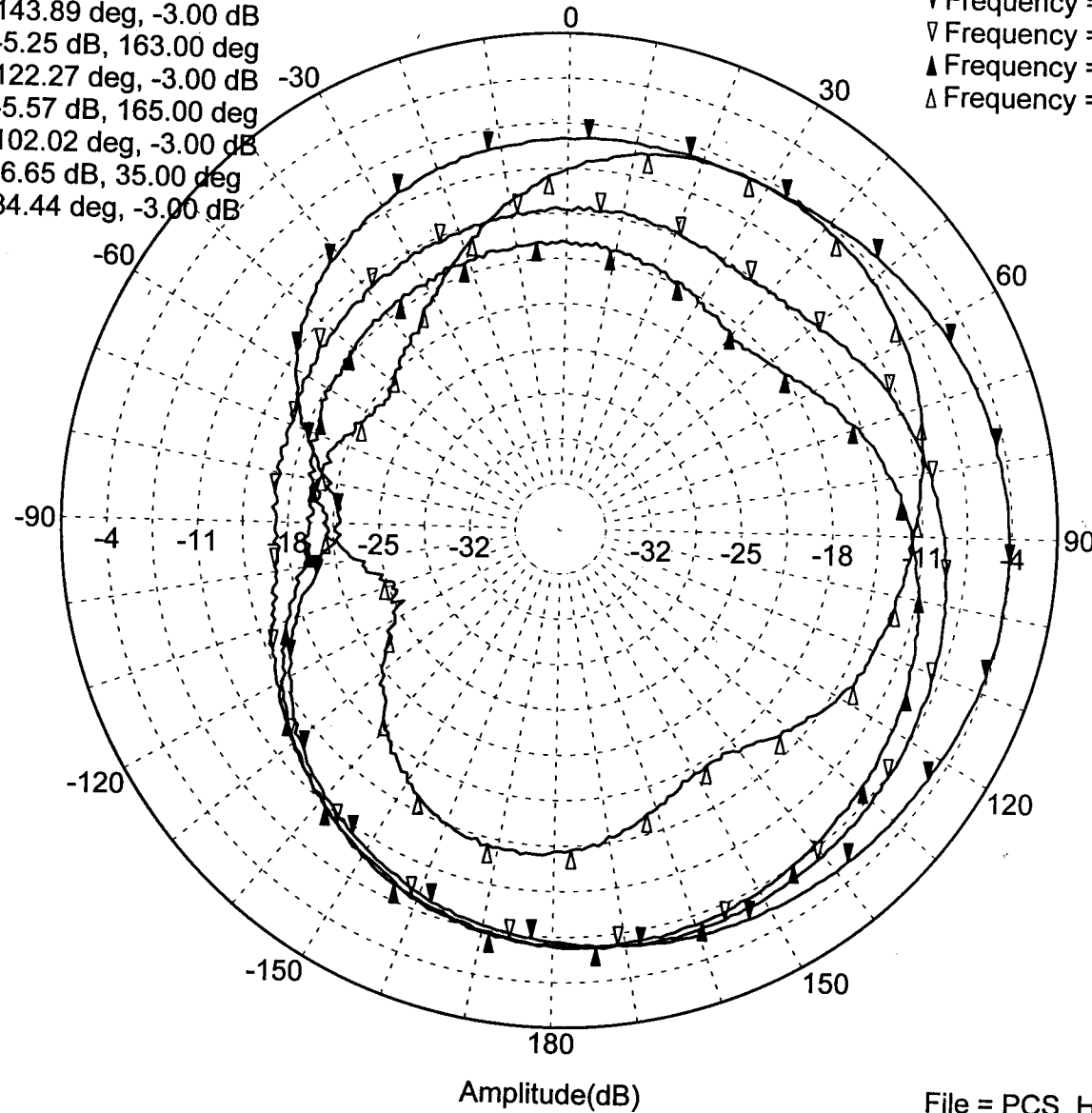
File = PCS\_E2\_E\_Fo.pat

# Antenna Radiation Pattern

Beam Peak = -3.23 dB, 103.00 deg  
Beam Width= 143.89 deg, -3.00 dB  
Beam Peak = -5.25 dB, 163.00 deg  
Beam Width= 122.27 deg, -3.00 dB  
Beam Peak = -5.57 dB, 165.00 deg  
Beam Width= 102.02 deg, -3.00 dB  
Beam Peak = -6.65 dB, 35.00 deg  
Beam Width= 84.44 deg, -3.00 dB

UnClassified

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



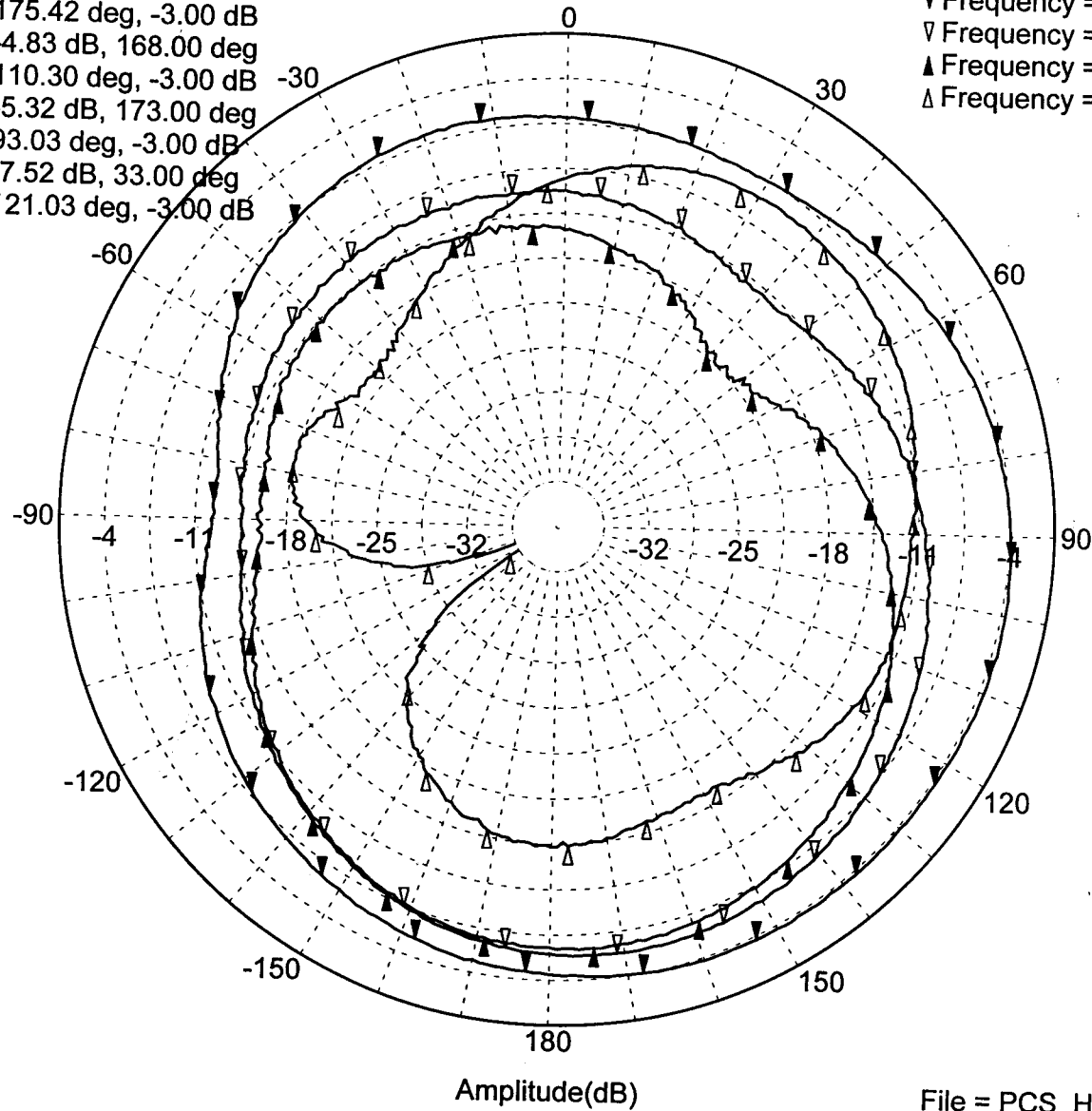
File = PCS\_H\_R\_Fc.pat

# Antenna Radiation Pattern

Beam Peak = -2.80 dB, 105.00 deg  
Beam Width= 175.42 deg, -3.00 dB  
Beam Peak = -4.83 dB, 168.00 deg  
Beam Width= 110.30 deg, -3.00 dB  
Beam Peak = -5.32 dB, 173.00 deg  
Beam Width= 93.03 deg, -3.00 dB  
Beam Peak = -7.52 dB, 33.00 deg  
Beam Width= 121.03 deg, -3.00 dB

UnClassified

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



File = PCS\_H\_R\_Fo.pat



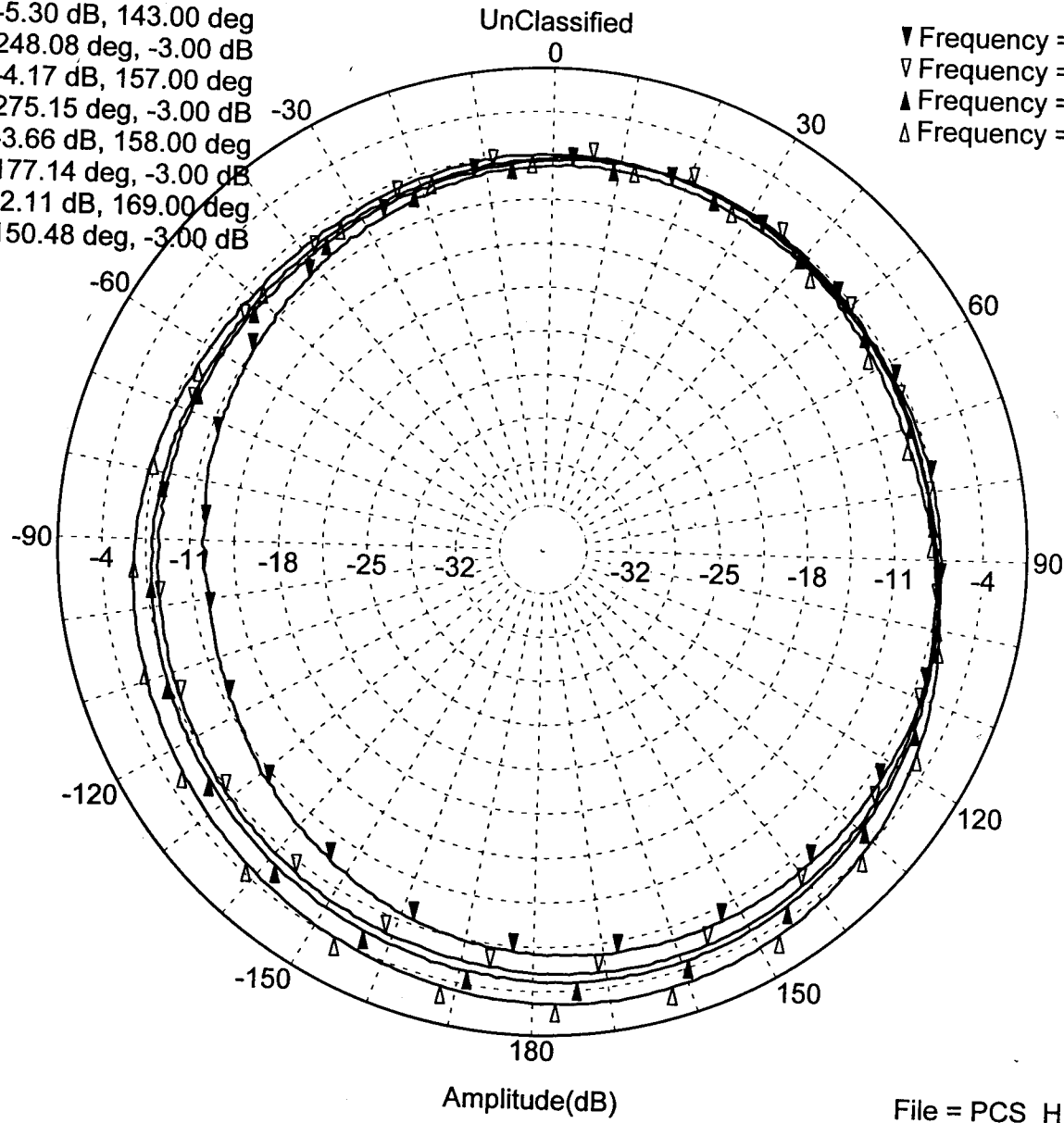
ACE TECHNOLOGY

# Antenna Radiation Pattern

Beam Peak = -5.30 dB, 143.00 deg  
Beam Width= 248.08 deg, -3.00 dB  
Beam Peak = -4.17 dB, 157.00 deg  
Beam Width= 275.15 deg, -3.00 dB  
Beam Peak = -3.66 dB, 158.00 deg  
Beam Width= 177.14 deg, -3.00 dB  
Beam Peak = -2.11 dB, 169.00 deg  
Beam Width= 150.48 deg, -3.00 dB

UnClassified

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



File = PCS\_H\_E\_Fo.pat



ACE TECHNOLOGY