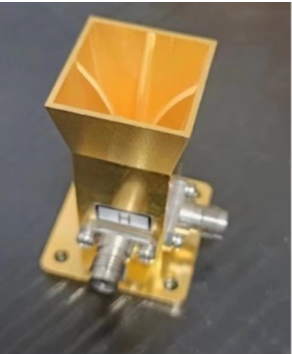
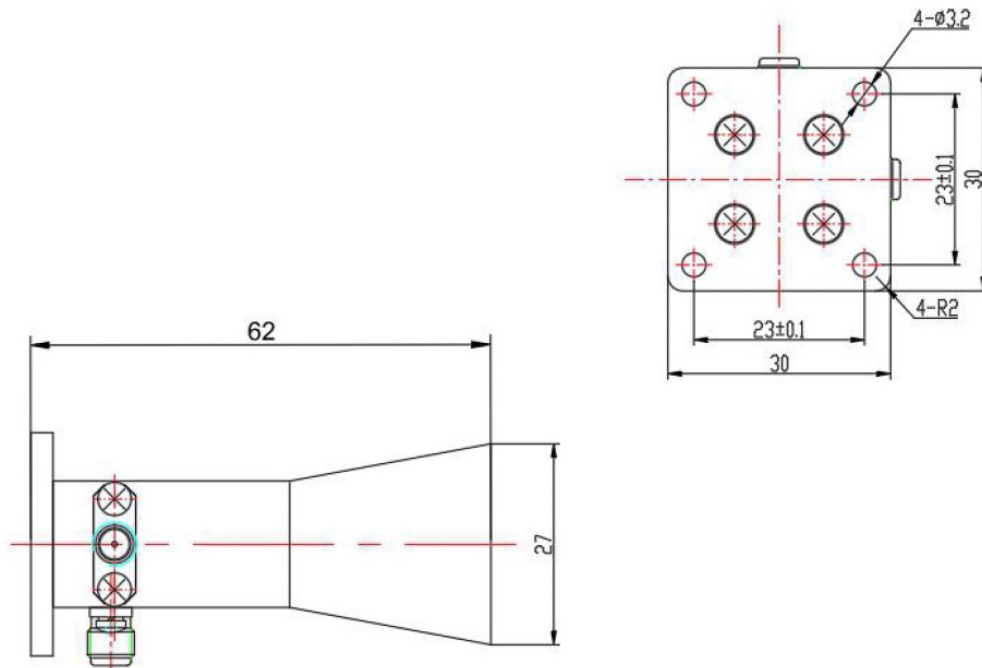


P/N: AMT-DP100500-2.4F

Technical Specification

	Frequency Range(GHz)	10.0-50.0GHz
	Gain(dBi)	10 Typ.
	Polarization	Dual Polarized
	Port to Port Isolation(dB)	20 Min.
	Cross Polarization Isolation(dB)	20 Min.
	Impedance(Ohms)	50
	Connector	2.4mm-Female
	VSWR	2.5 Max.
	Material	Gold plated brass
	Size(mm)	27 x 30 x 62
Weight(g)	100 approx.	

Outline (mm)





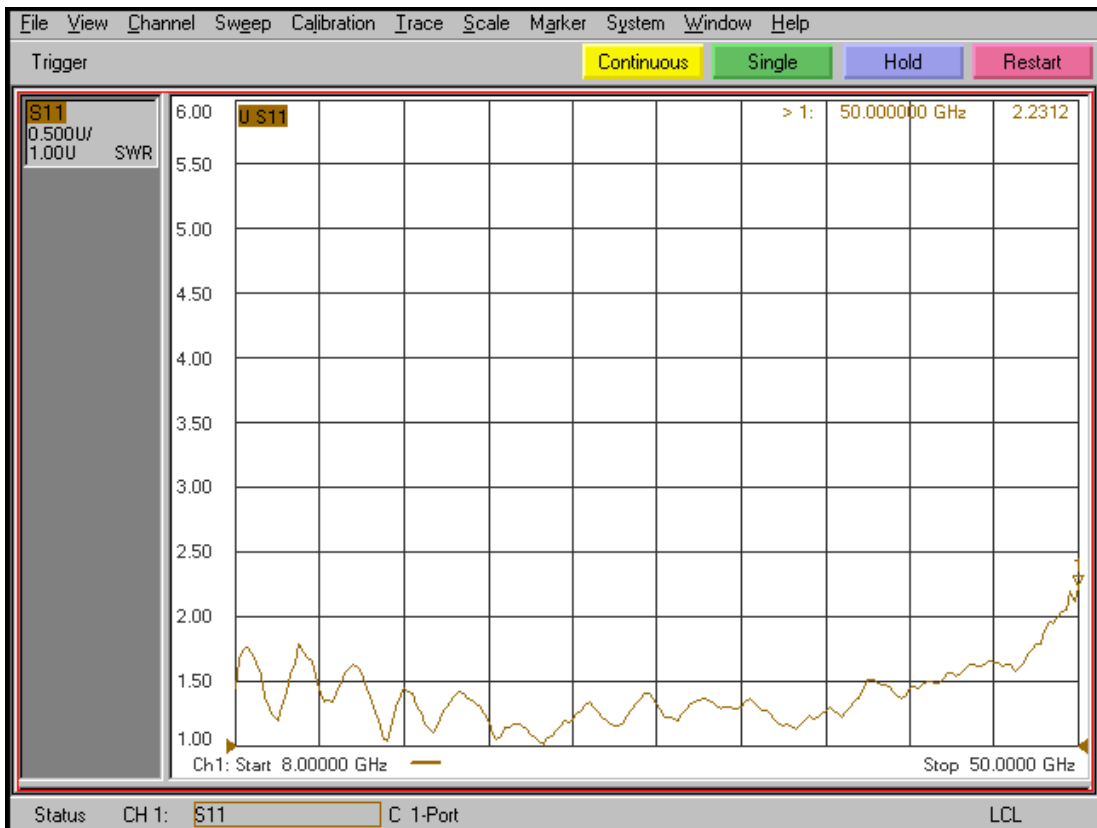
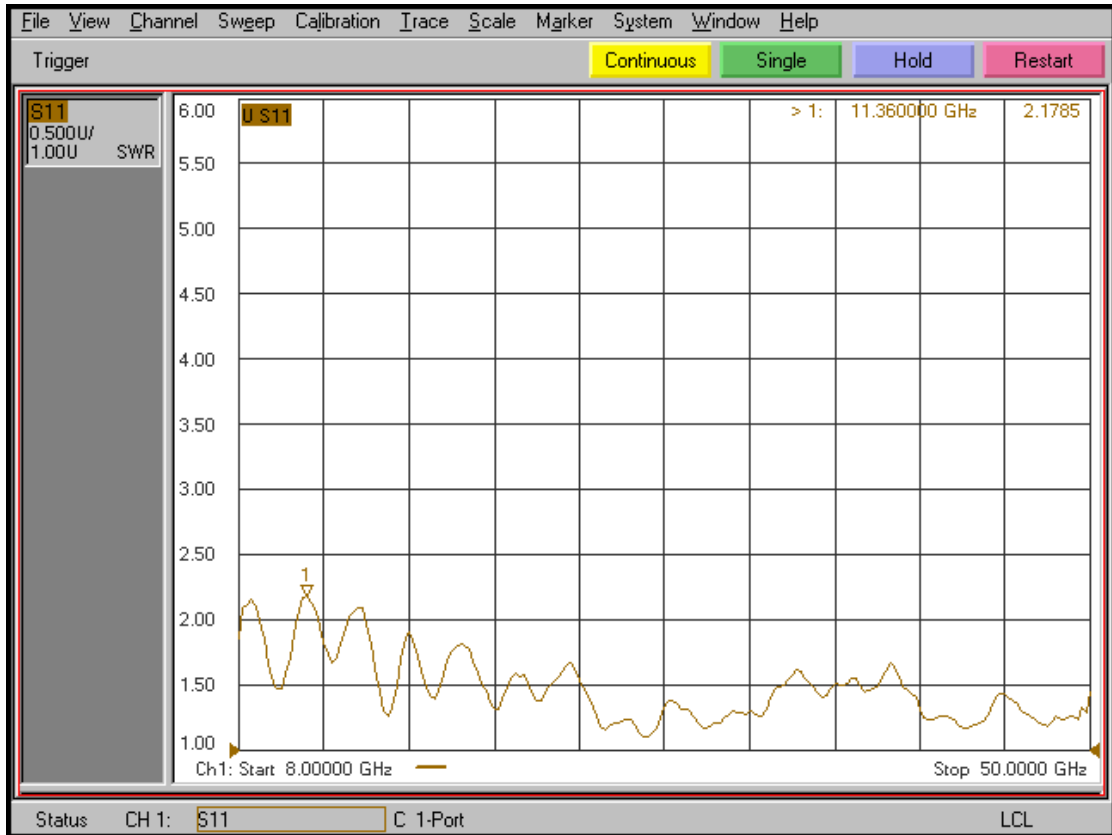
Test Result

Gain

Frequency (GHz)	Gain(dBi) Port 1	Gain(dBi) Port 2
8	7.17	7.44
10	7.73	7.99
12	9.33	8.79
14	9.86	9.39
15	10.18	9.9
16	10.66	10.34
18	11.91	11.82
20	12.5	12.98
22	13.63	13.97
24	13.83	14.22
25	14.57	15.1
26	15.36	15.69
28	15.53	15.13
30	15.68	15.54
32	15.8	15.99
34	15.99	16.59
36	16.91	16.93
38	16.2	16.56
40	16.46	16.37
42	17.3	17.5
44	17.4	17.7
46	17.7	17.5
48	17.8	17.5
50	17.1	16.9

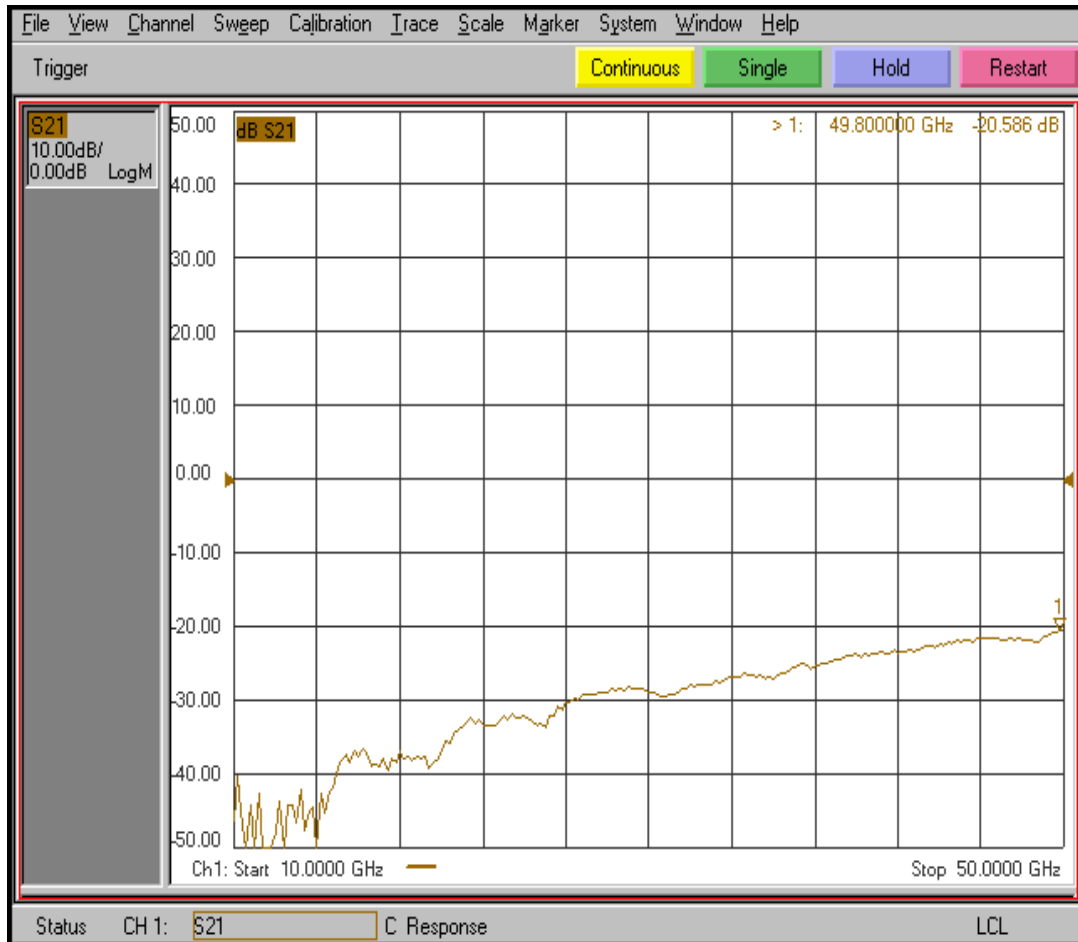


VSWR



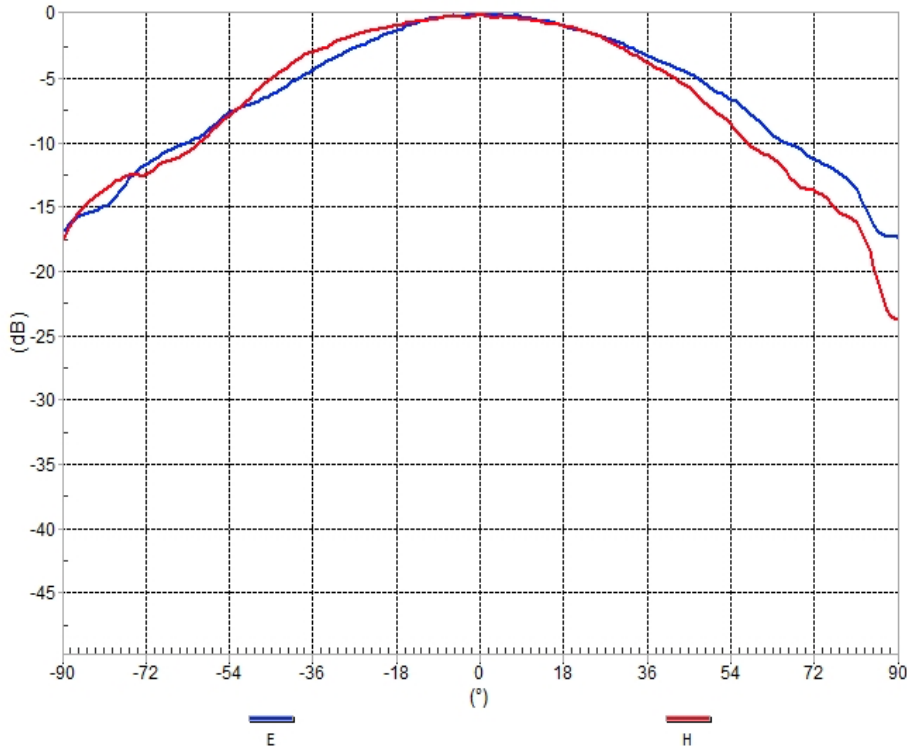


Port to Port Isolation(dB)

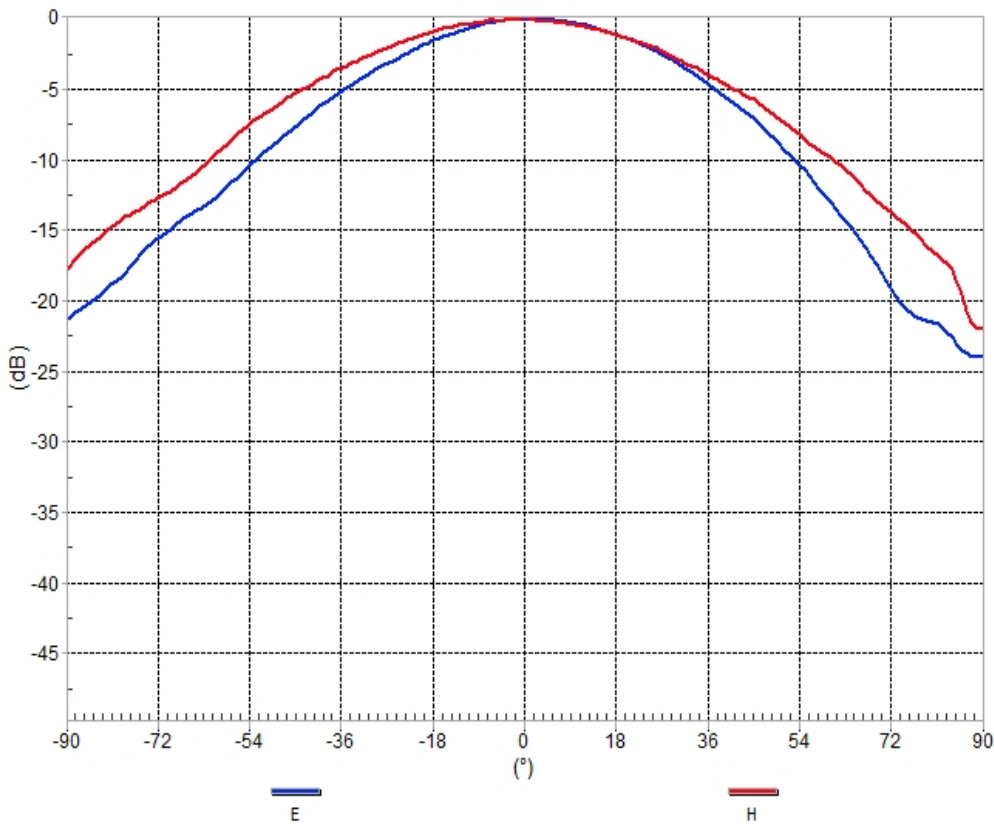




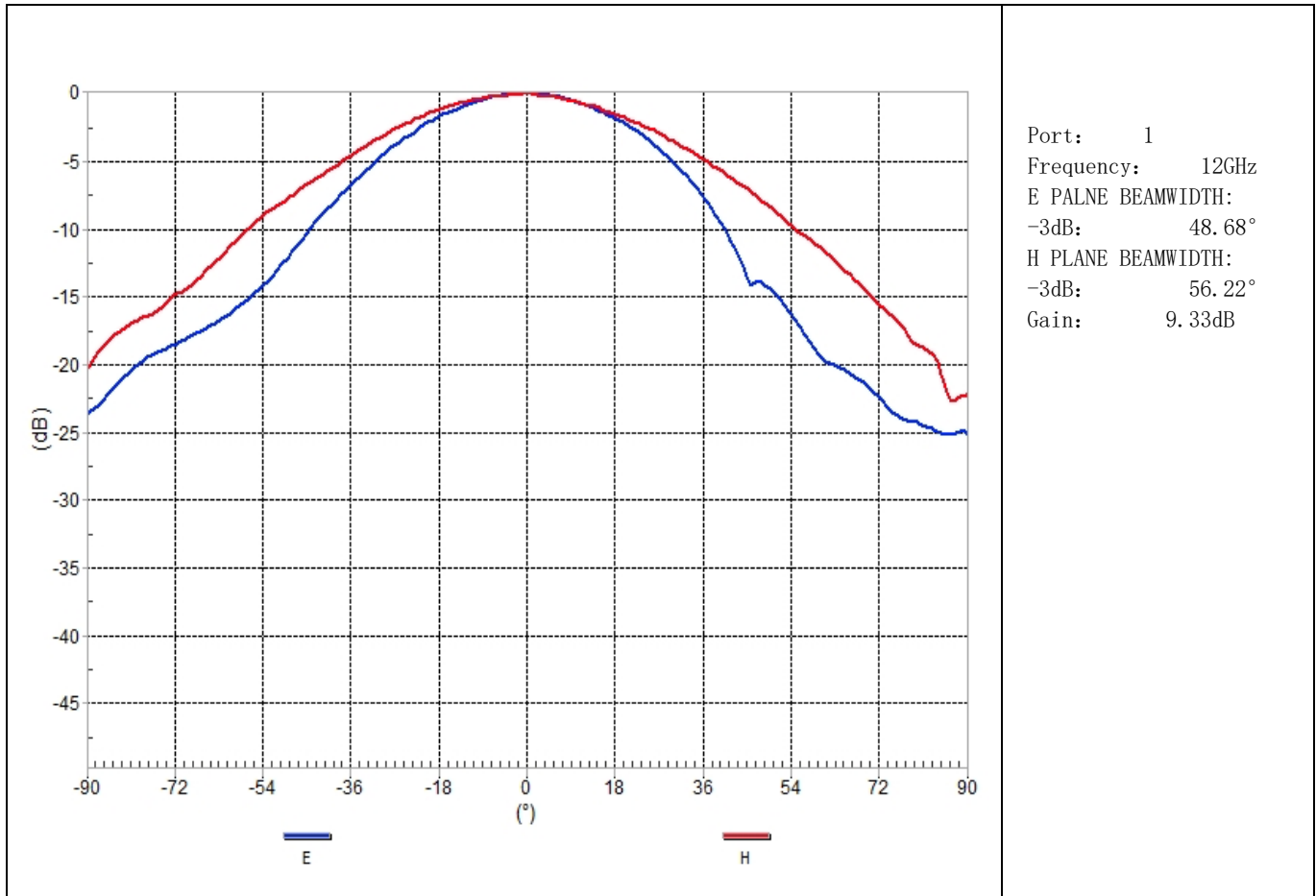
Pattern

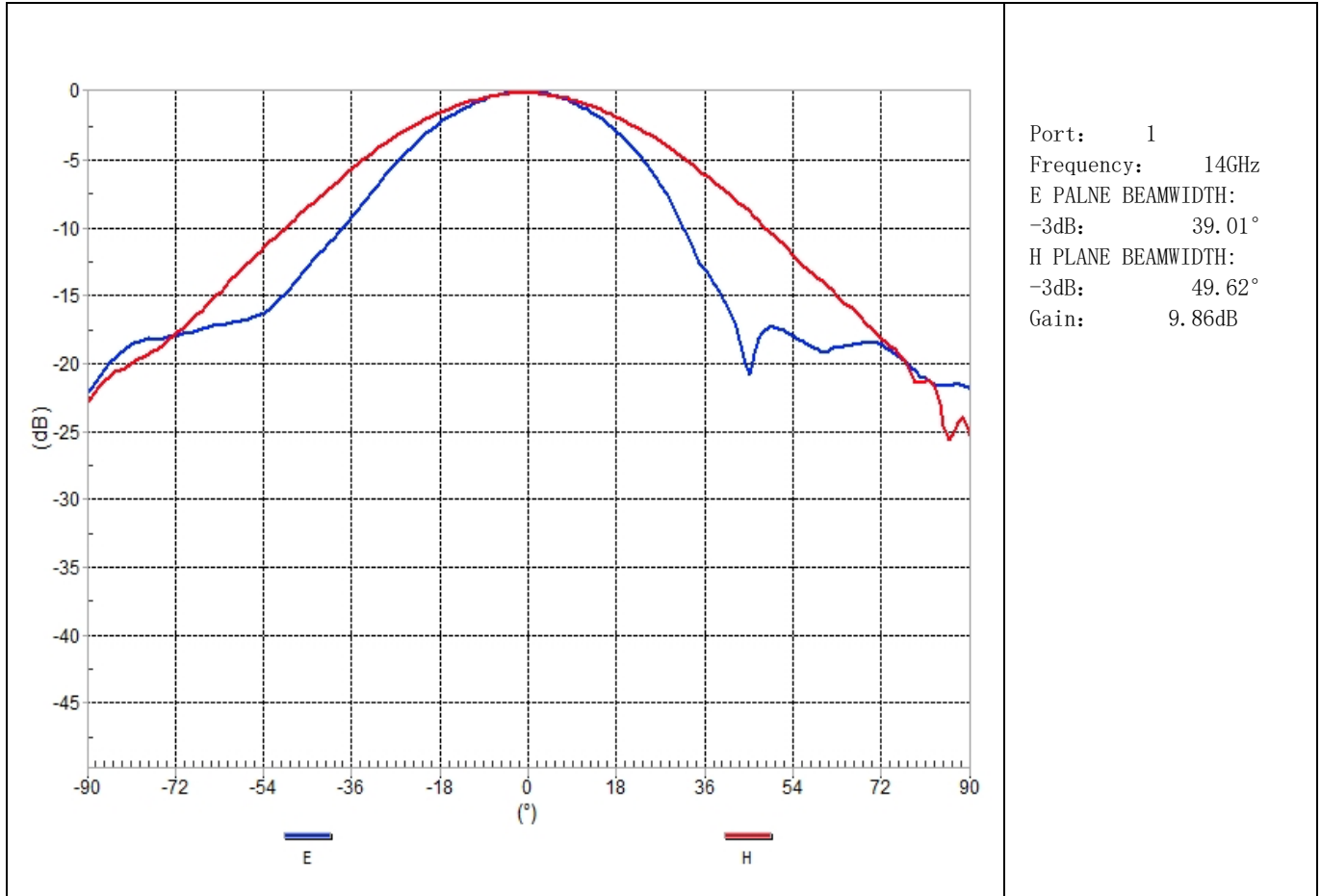


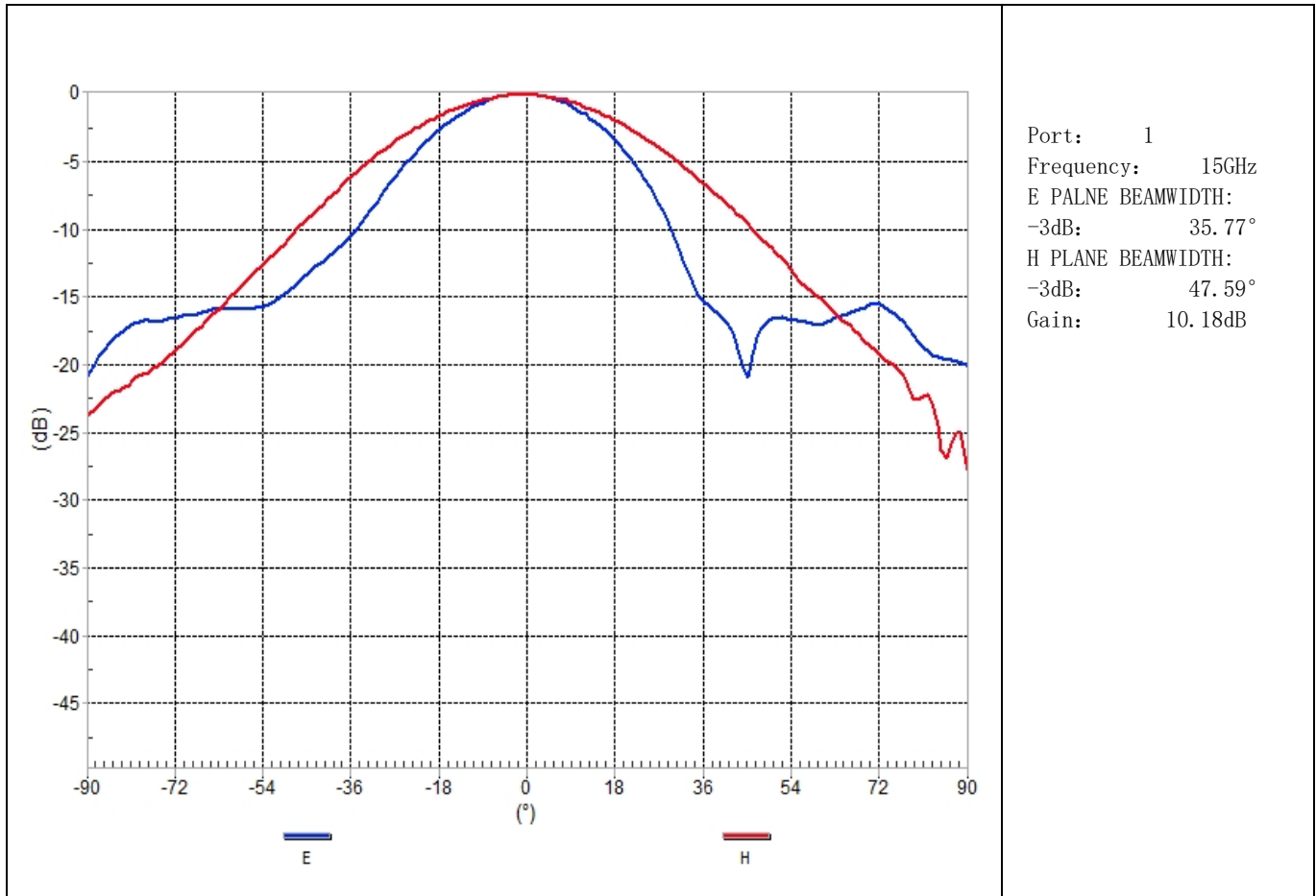
Port: 1
Frequency: 8GHz
E PLANE BEAMWIDTH:
-3dB: 59.47°
H PLANE BEAMWIDTH:
-3dB: 69.17°
Gain: 7.17dB

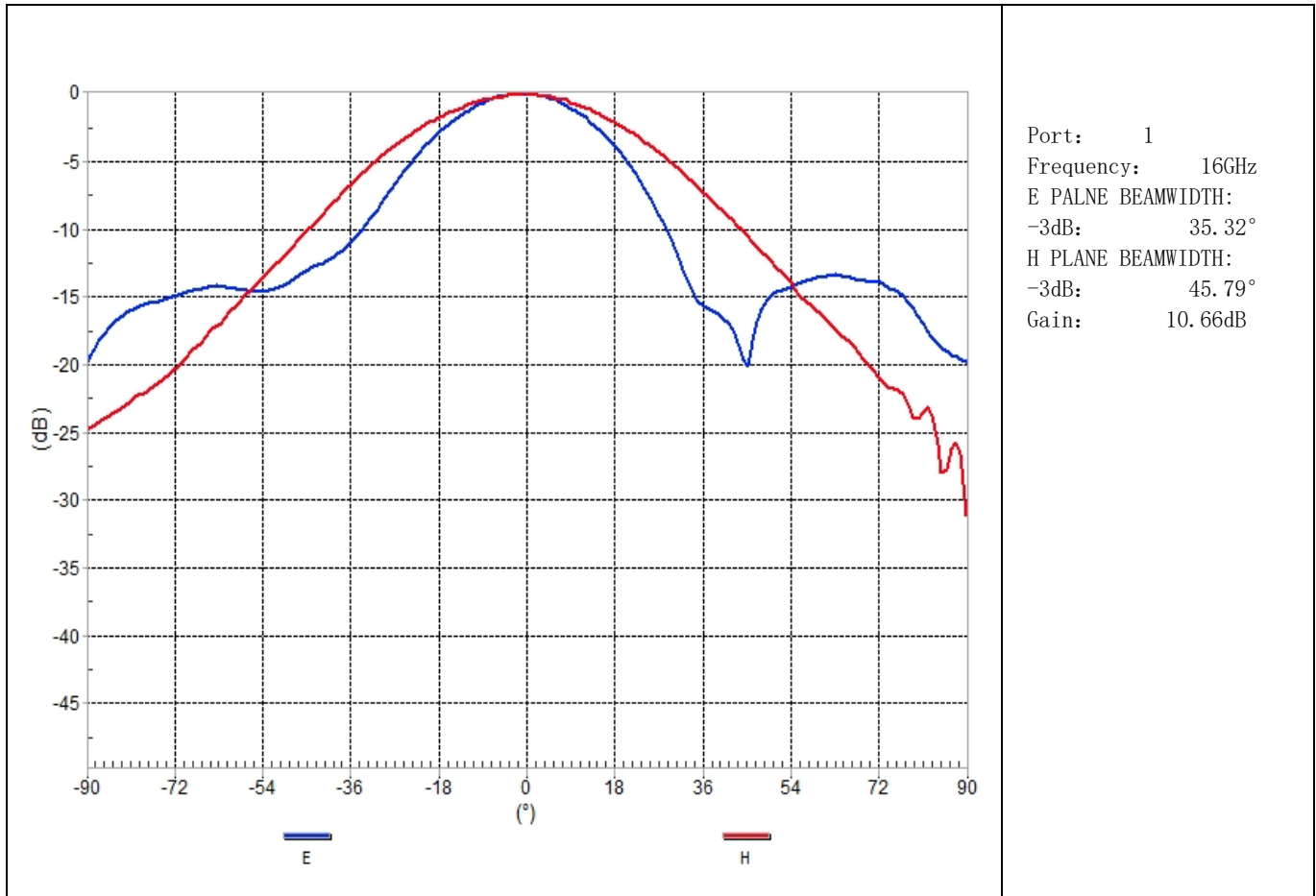


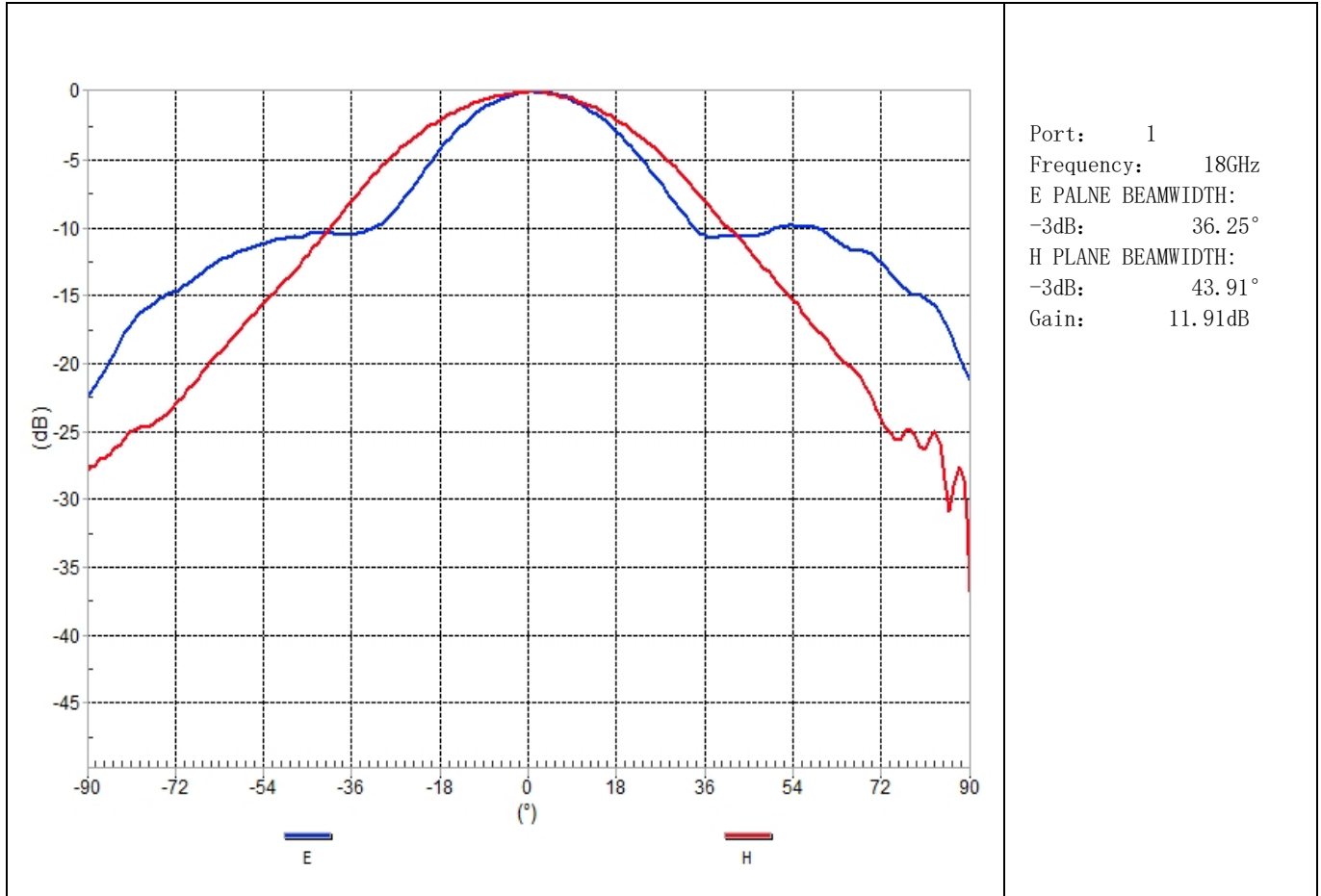
Port: 1
Frequency: 10GHz
E PLANE BEAMWIDTH:
-3dB: 55.54°
H PLANE BEAMWIDTH:
-3dB: 63.61°
Gain: 7.73dB

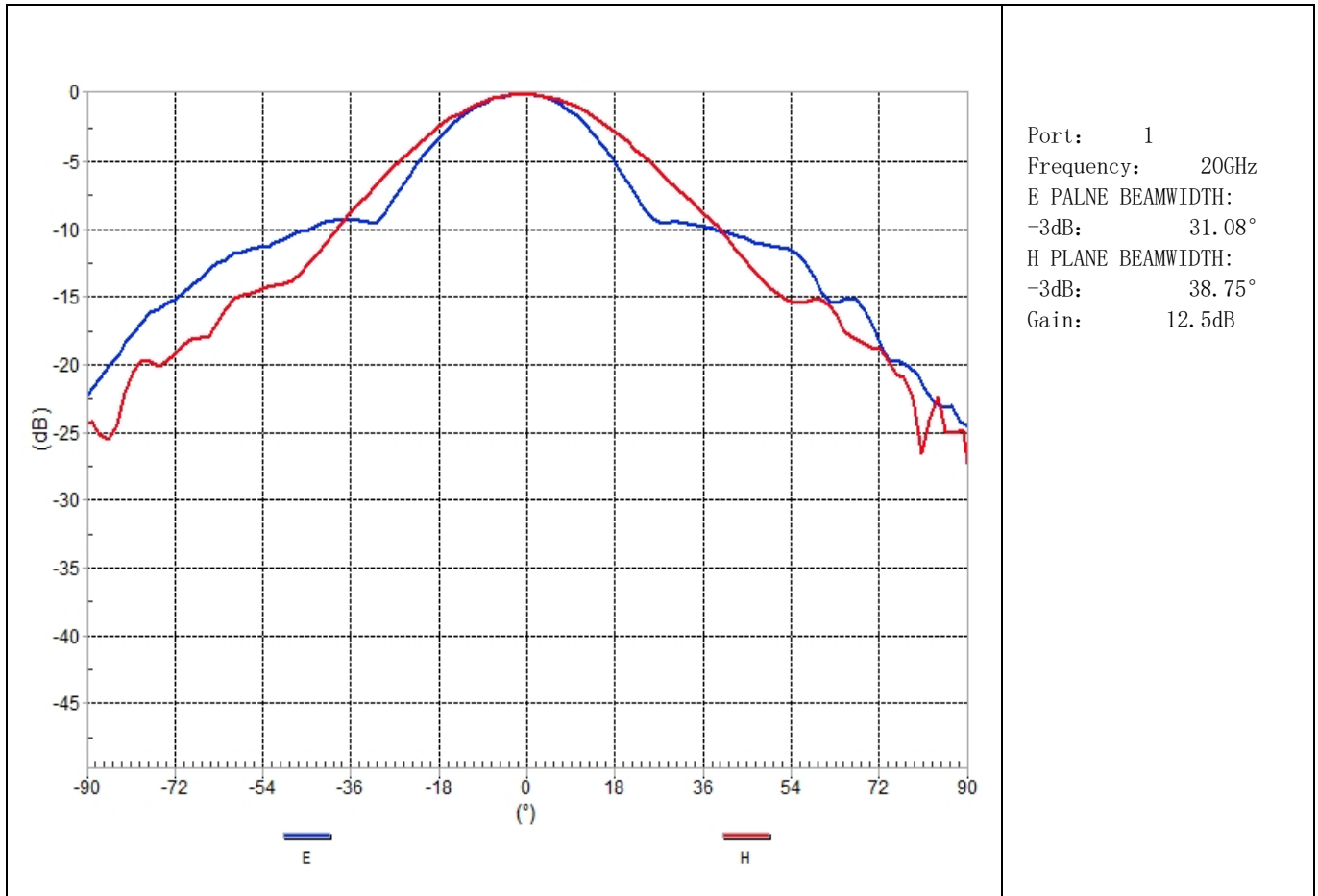


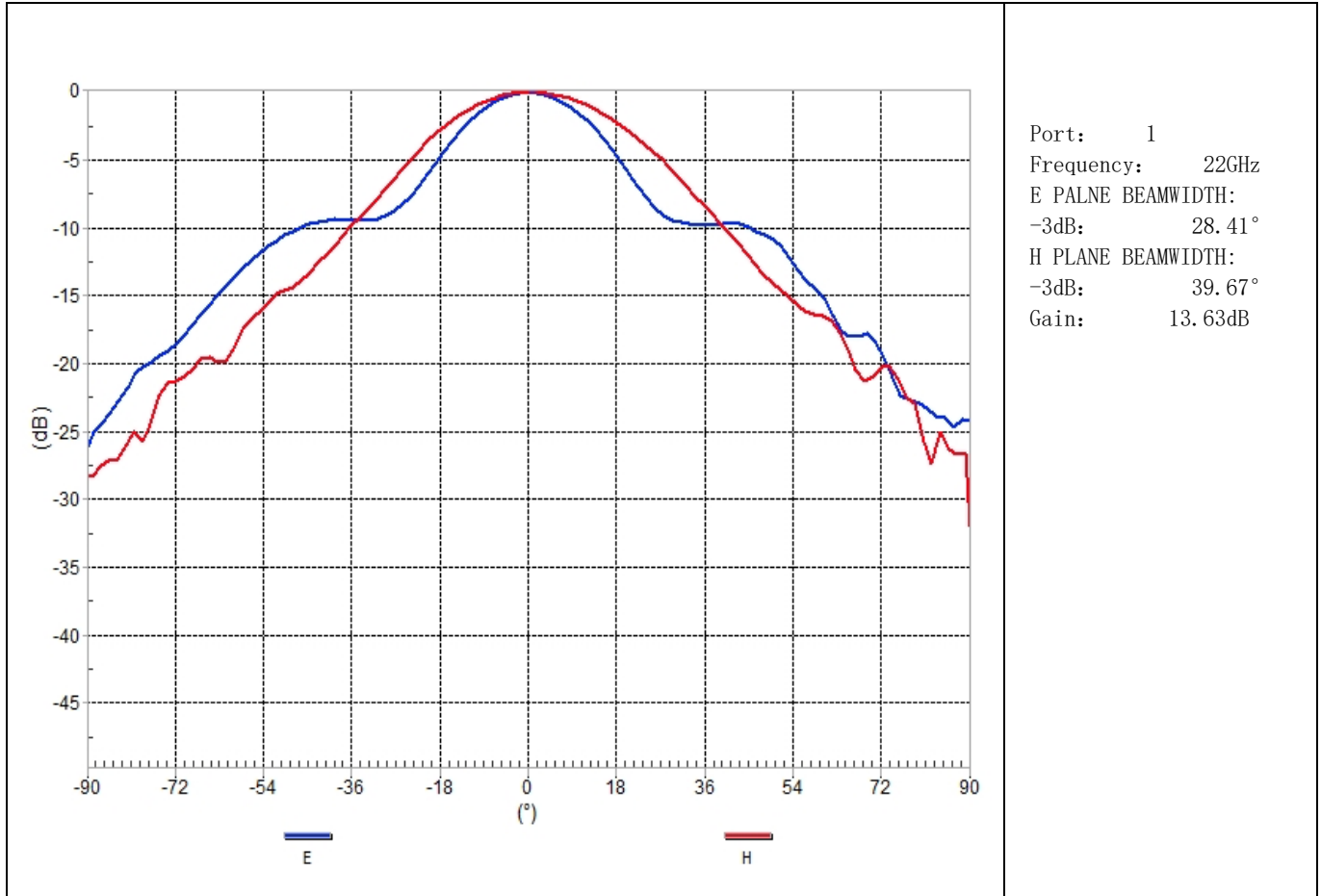


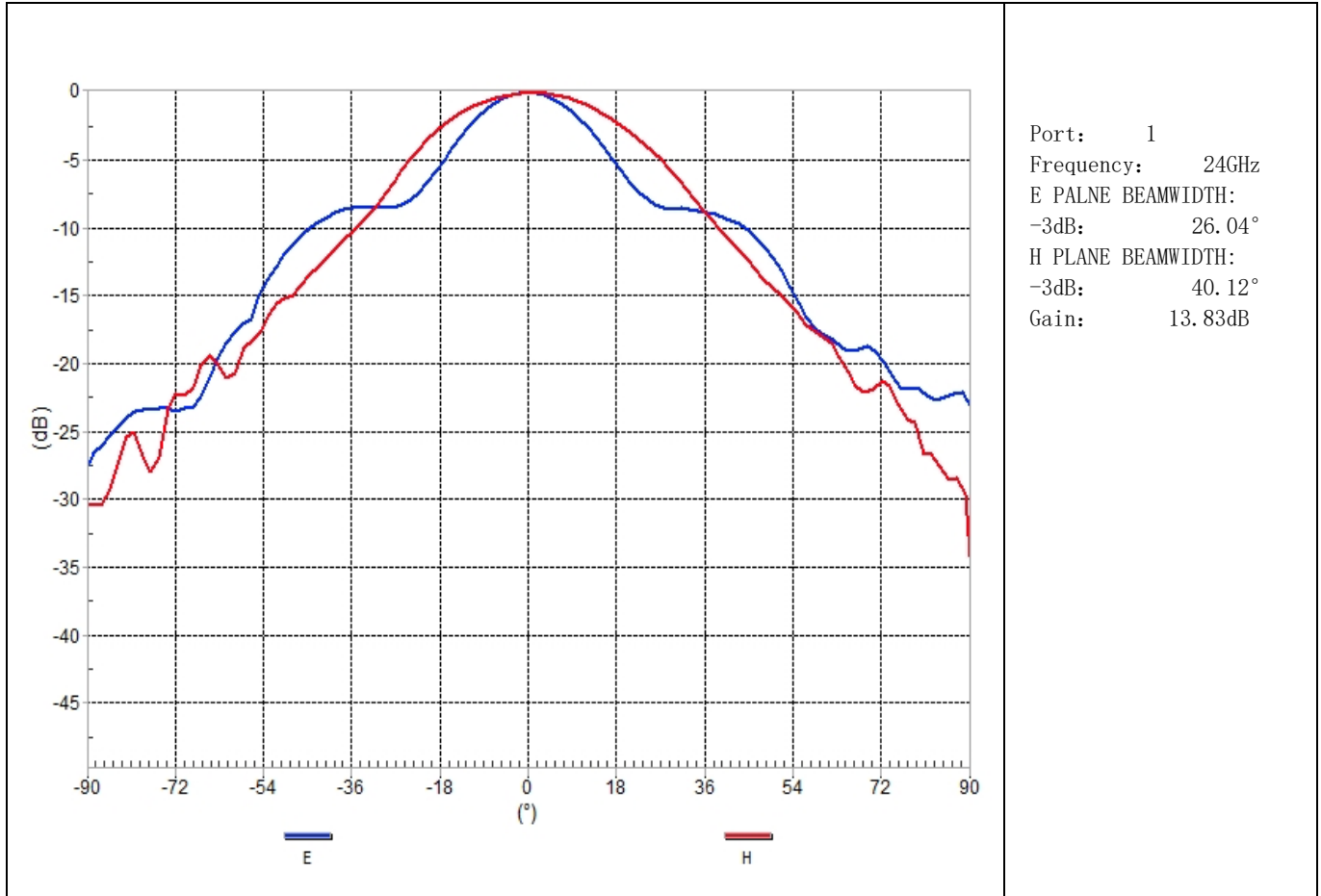


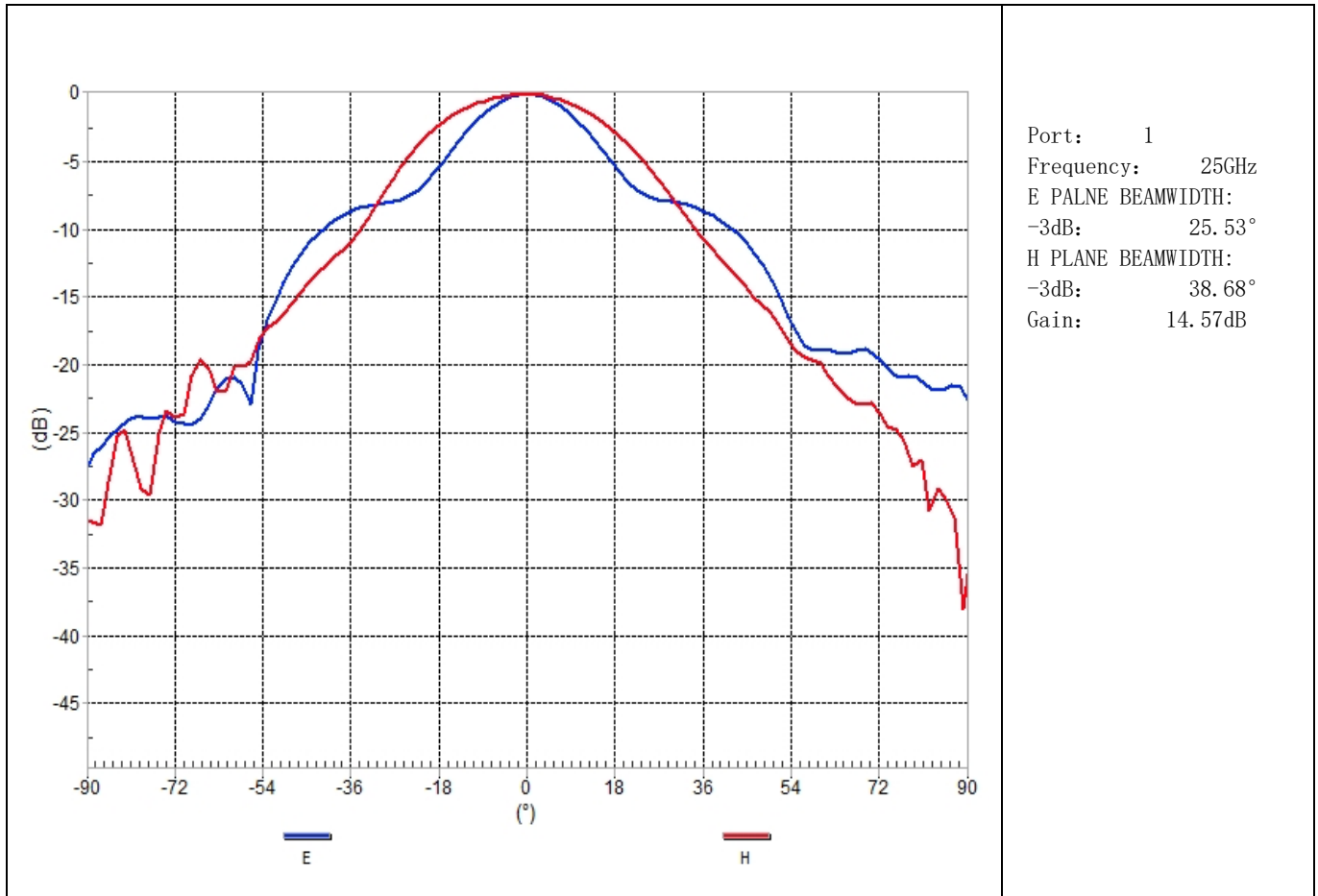


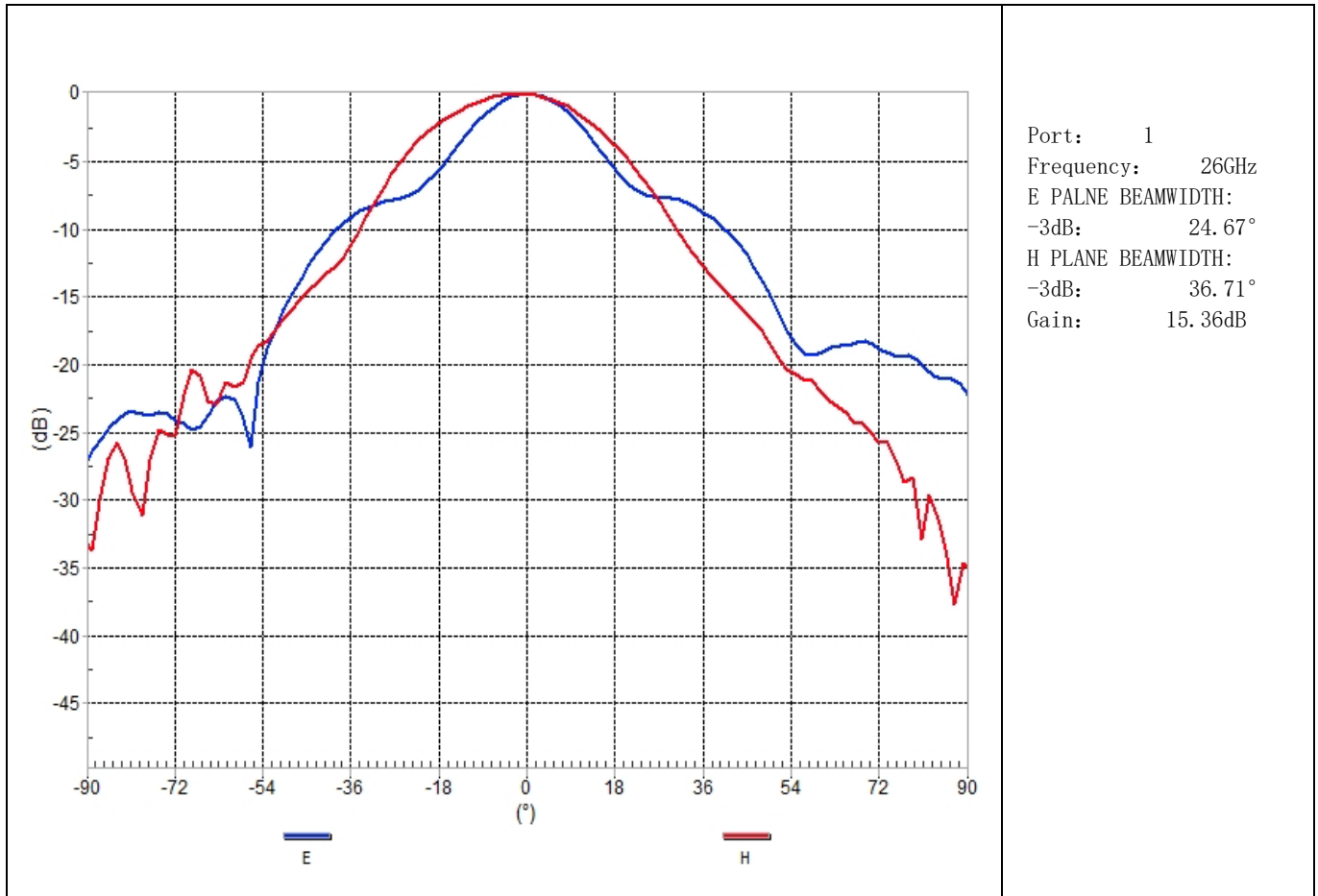


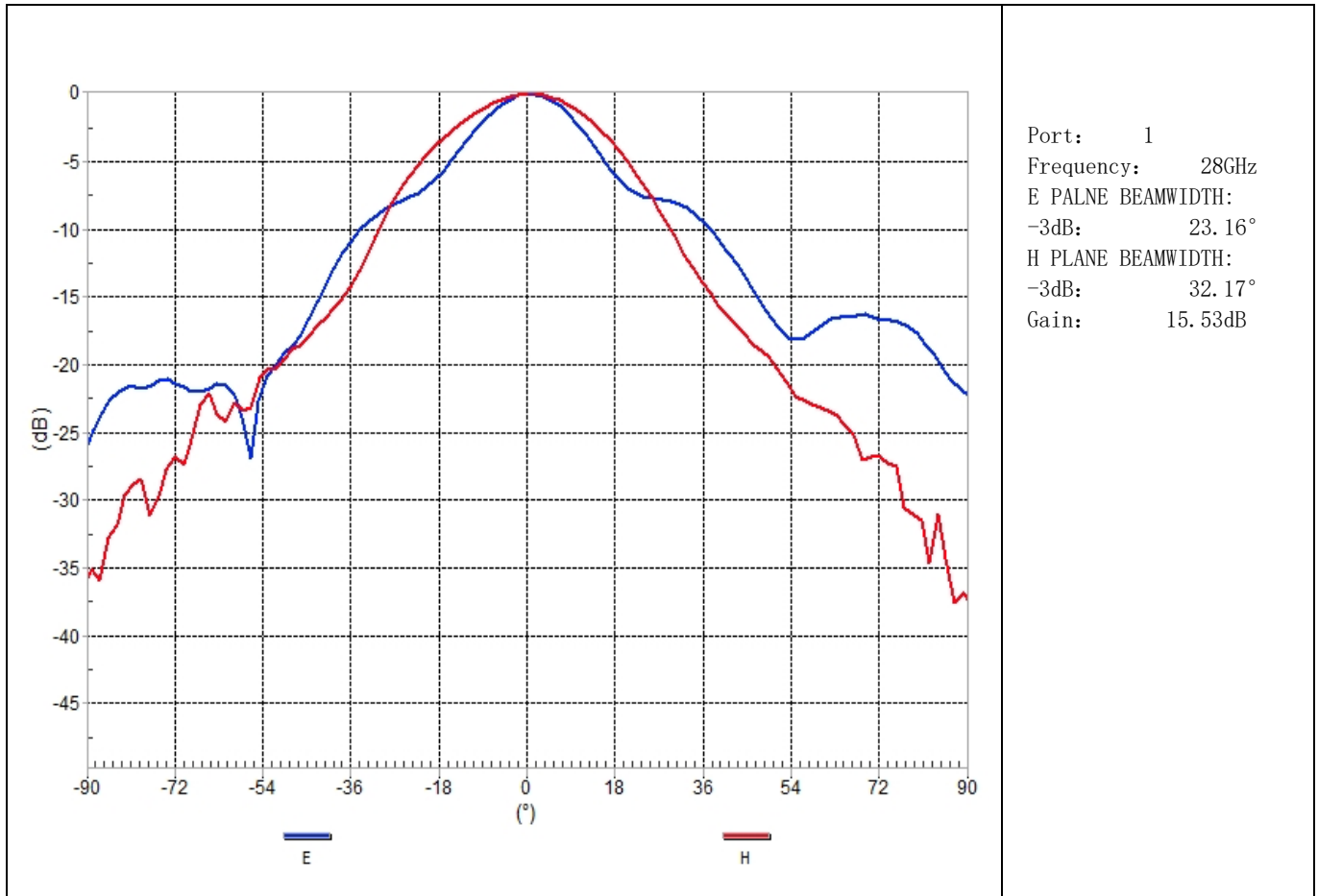


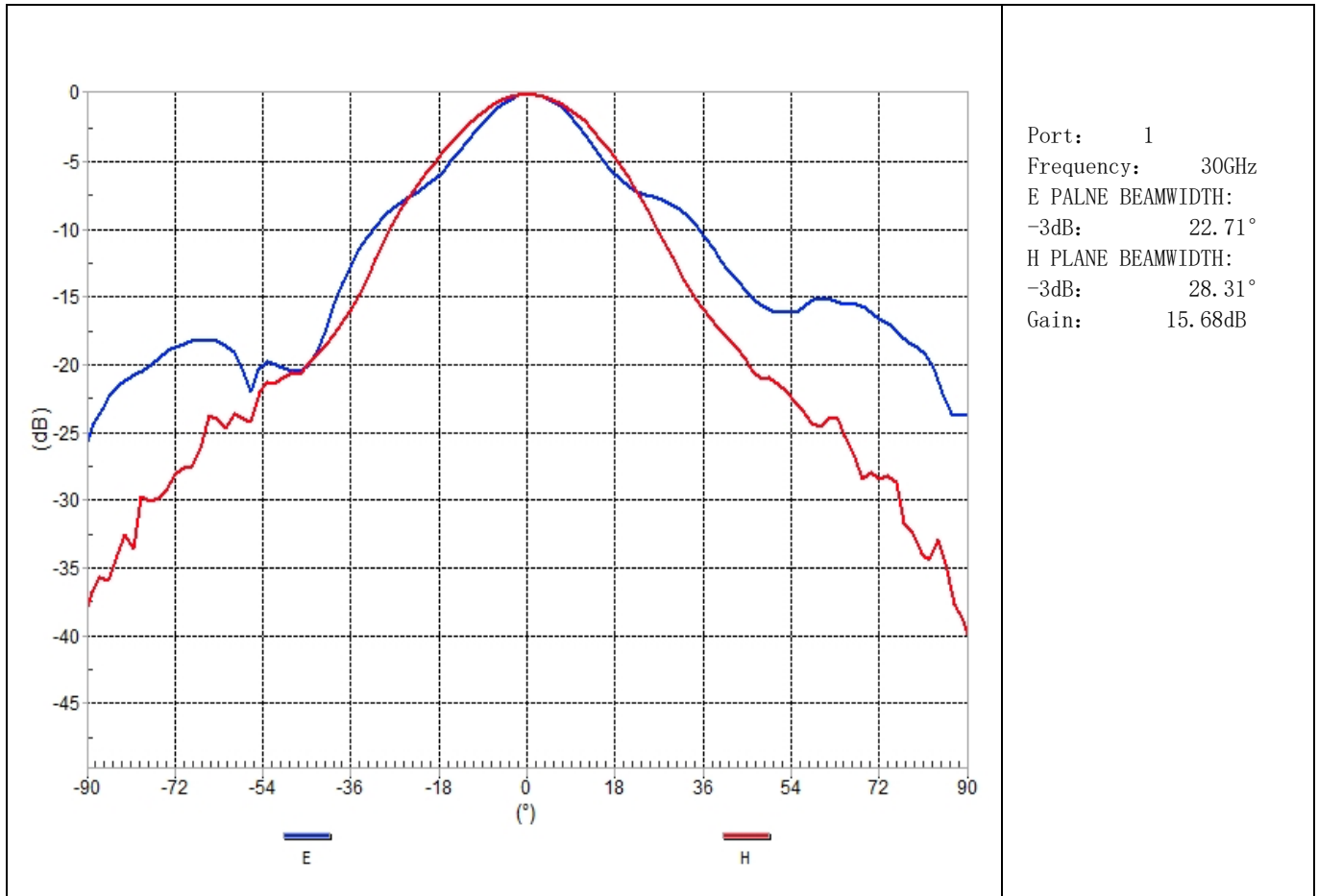


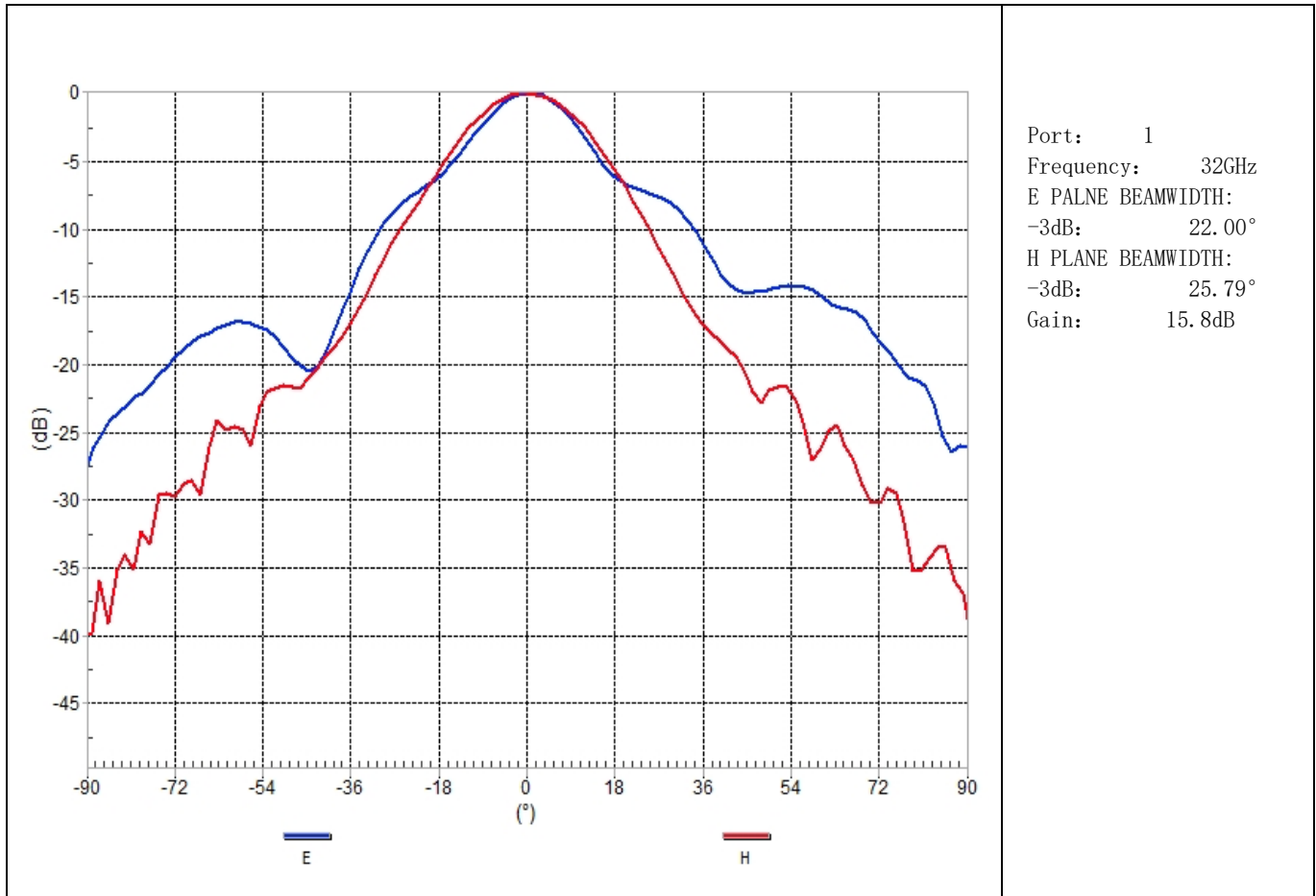


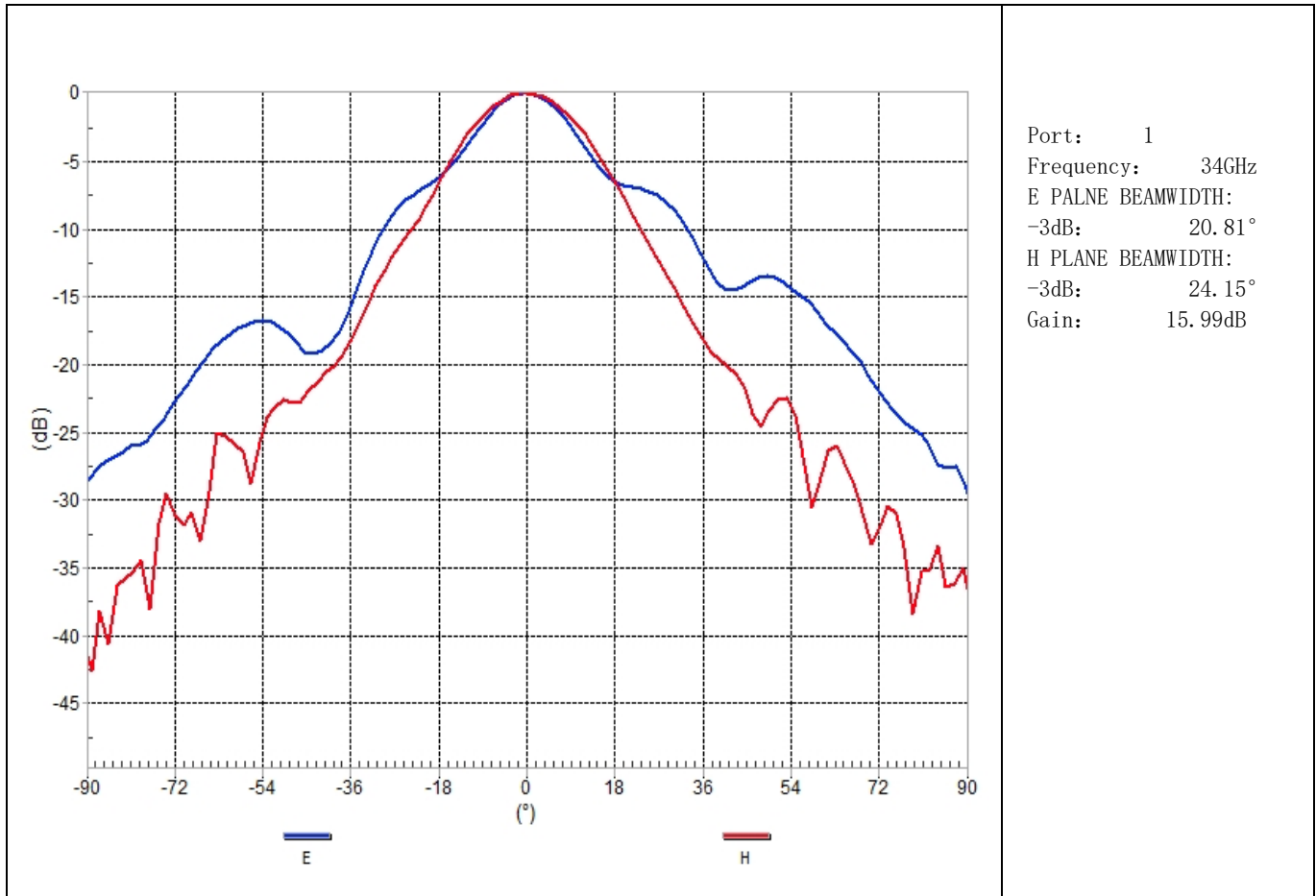


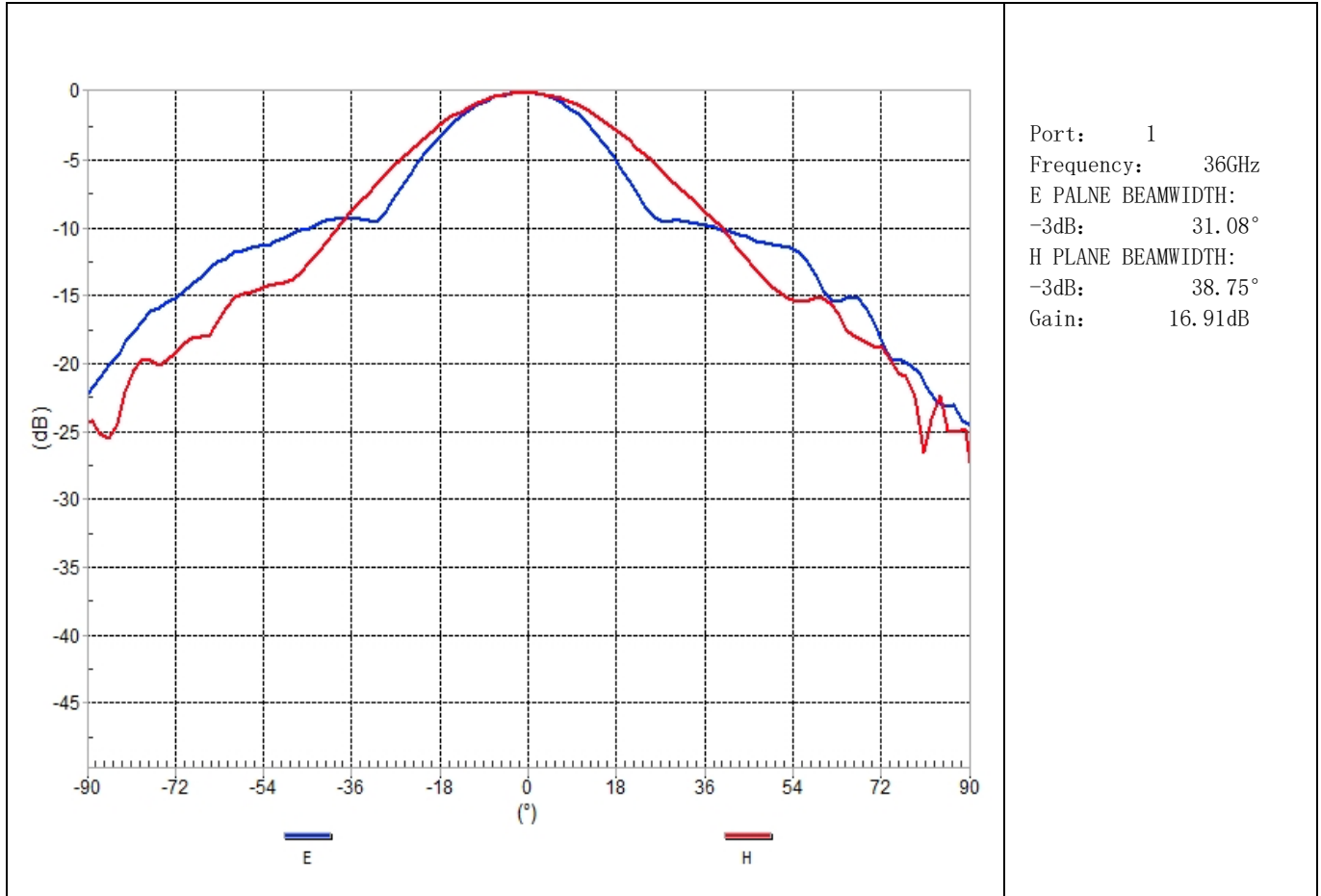


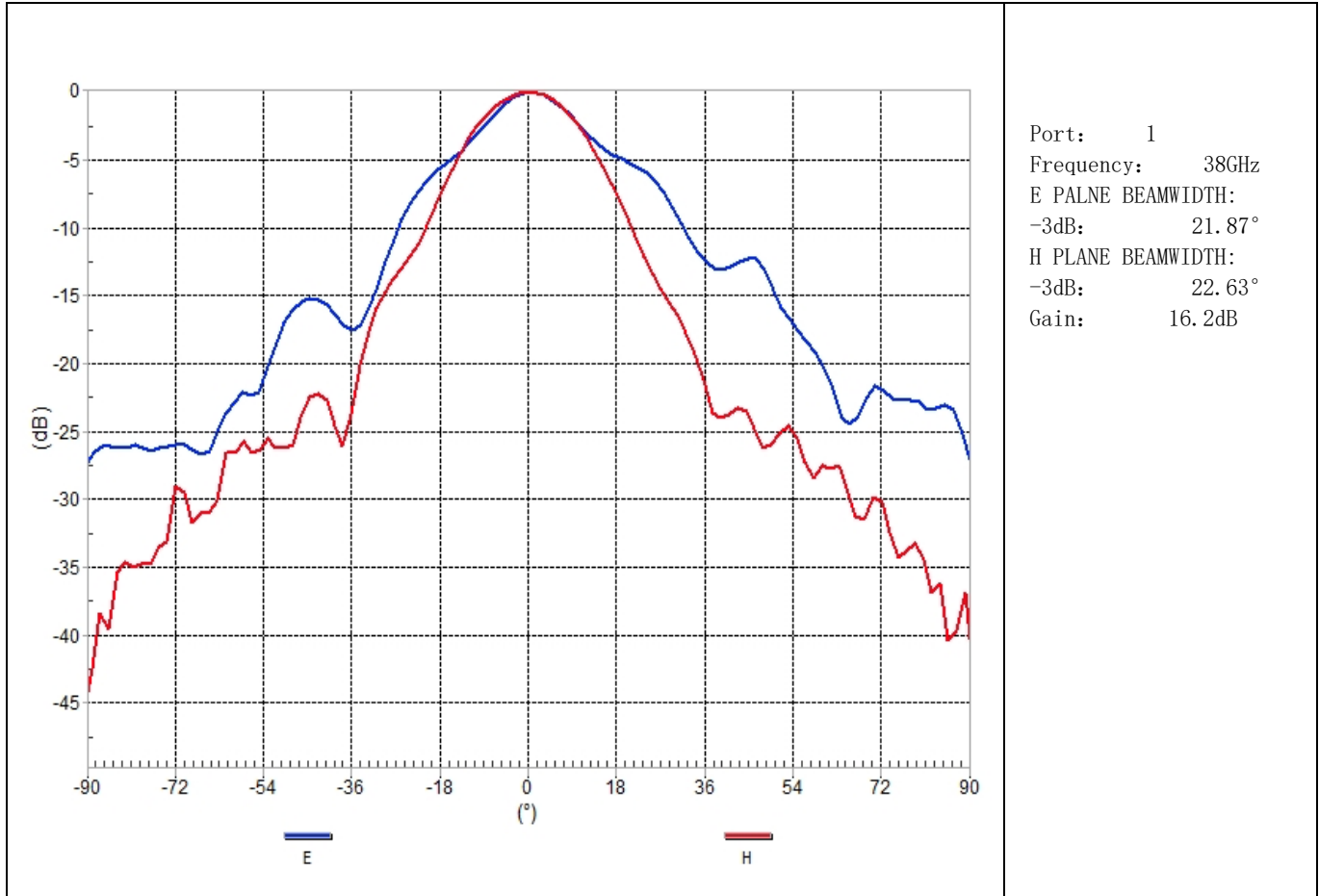


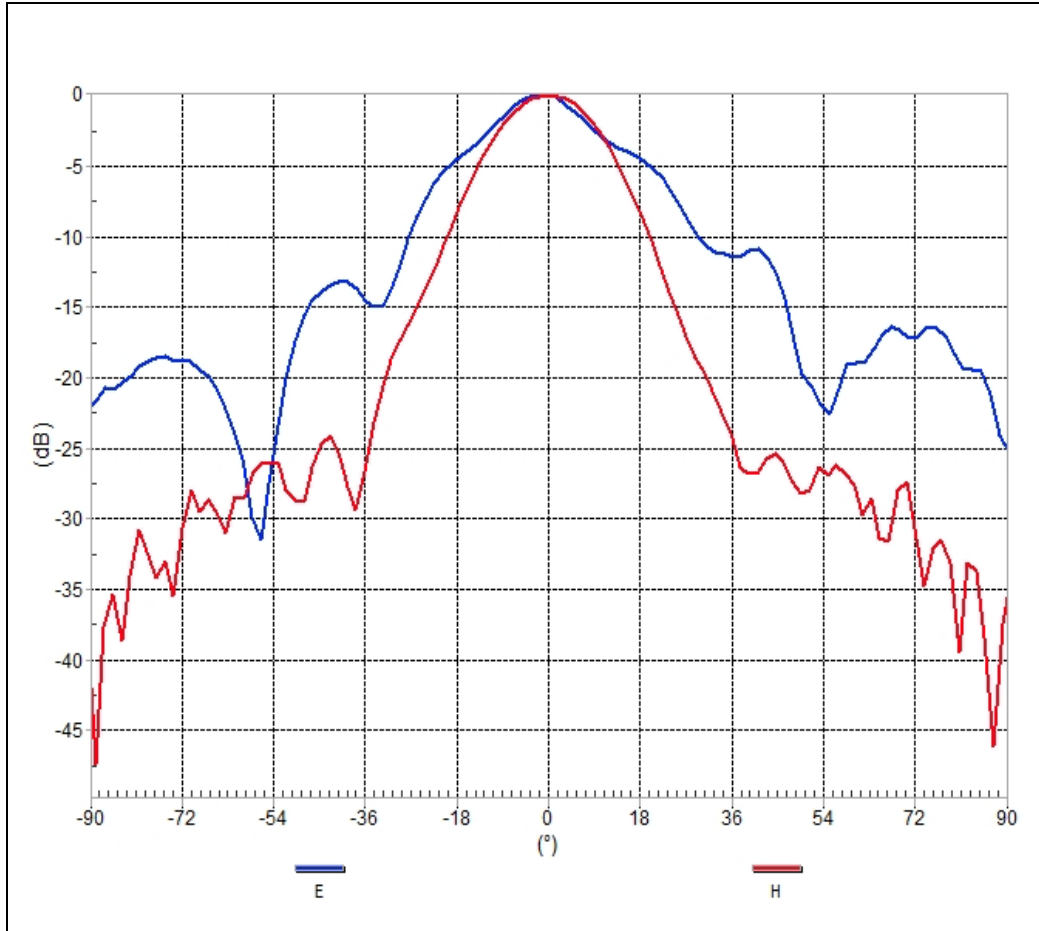




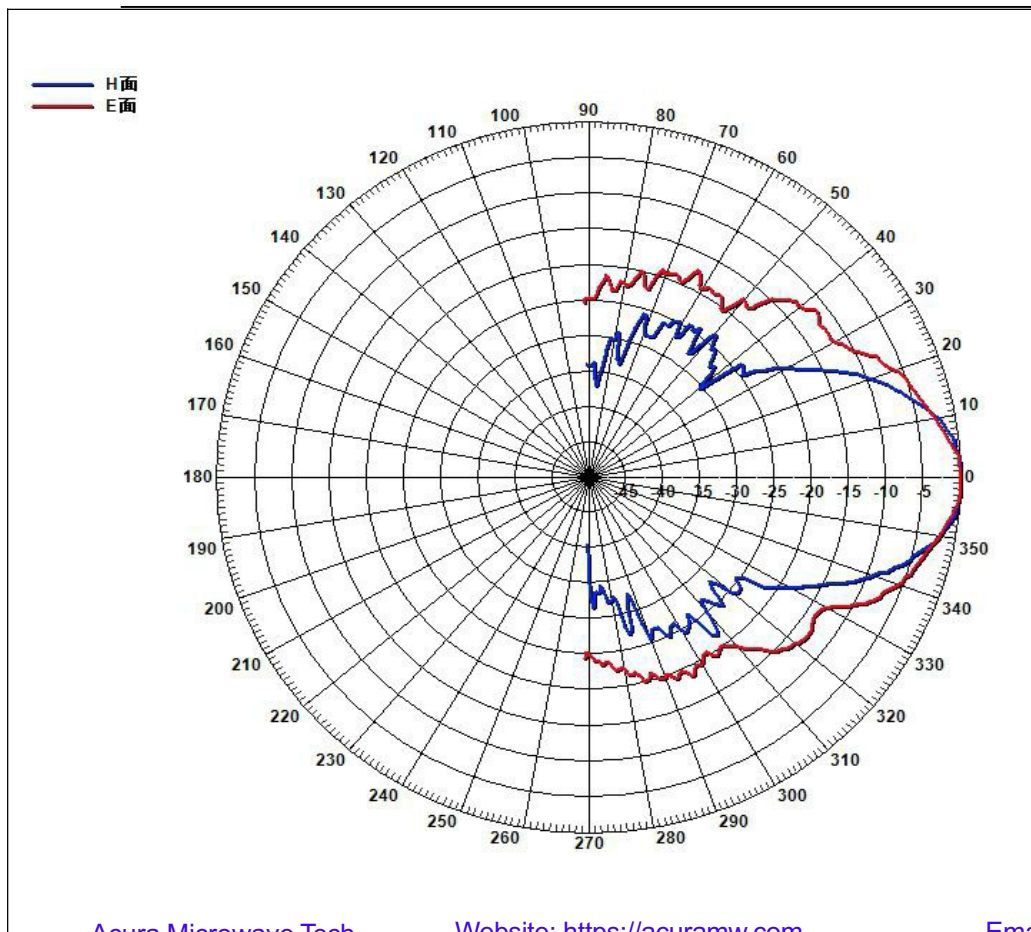








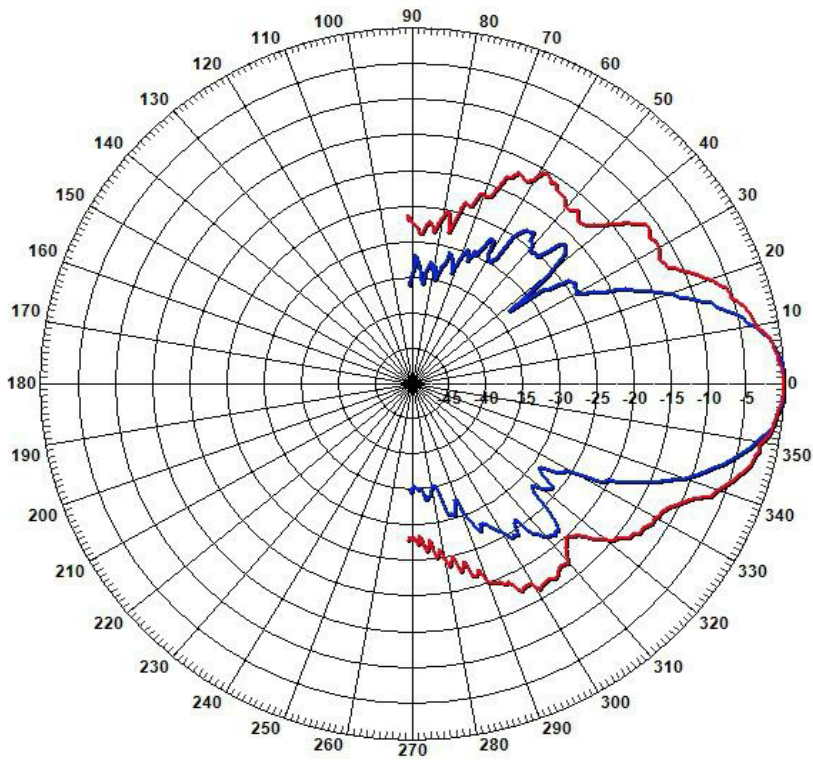
Port: 1
 Frequency: 40GHz
 E PLANE BEAMWIDTH:
 -3dB: 23.63°
 H PLANE BEAMWIDTH:
 -3dB: 21.51°
 Gain: 16.46dB



Port: 1
 Frequency: 42GHz
 Gain: 17.3 dB
 H PLANE BW:
 -3dB: 22.29°
 E PLANE BW
 -3dB: 22.10°



— H面
— E面

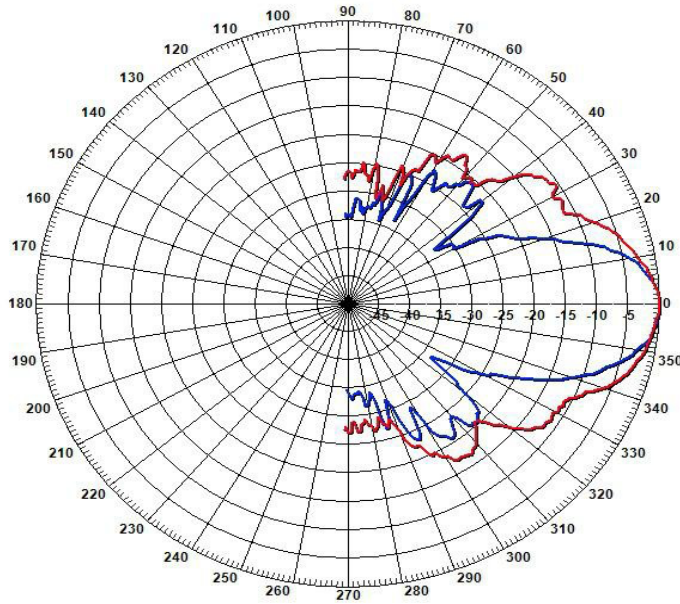


Port: 1
Frequency: 44GHz
Gain: 17.4 dB

H PLANE BW:
-3dB: 20.05°
E PLANE BW
-3dB: 24.34°



— H面
— E面

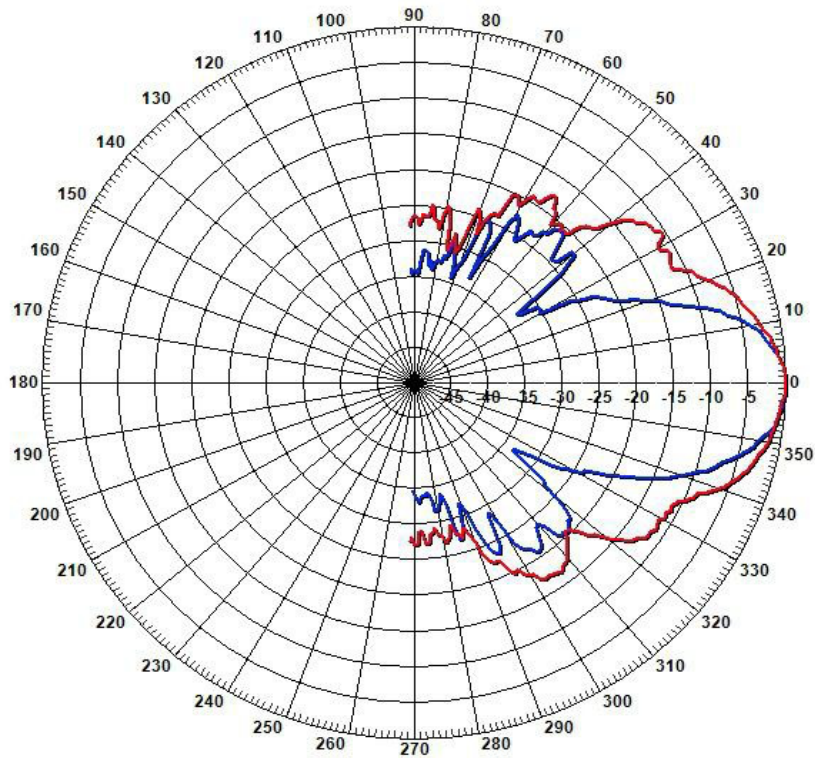


Port: 1
Frequency: 46GHz
Gain: 17.7 dB

H PLANE BW: 19.27°
-3dB:
E PLANE BW 23.10°
-3dB:

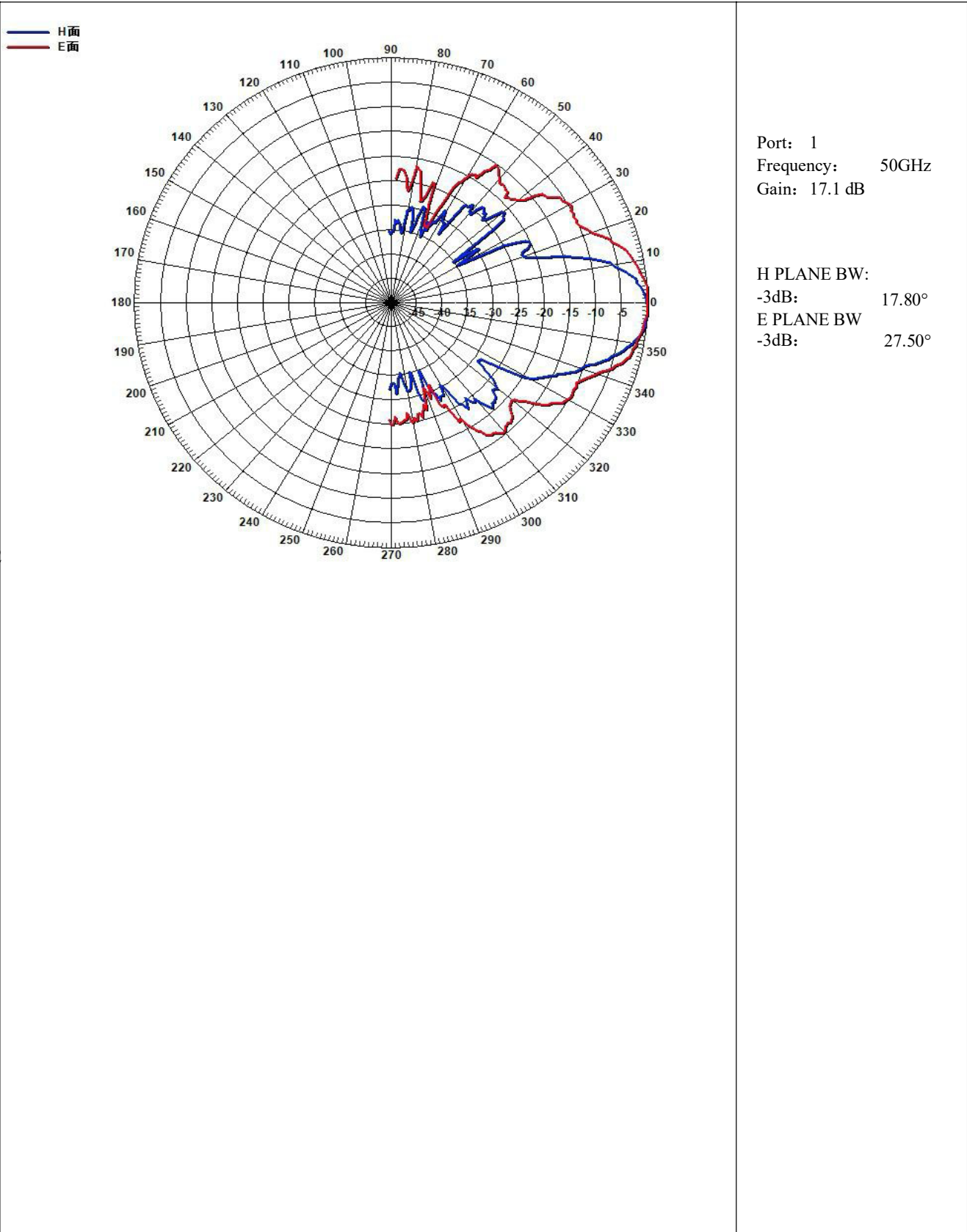


— H面
— E面

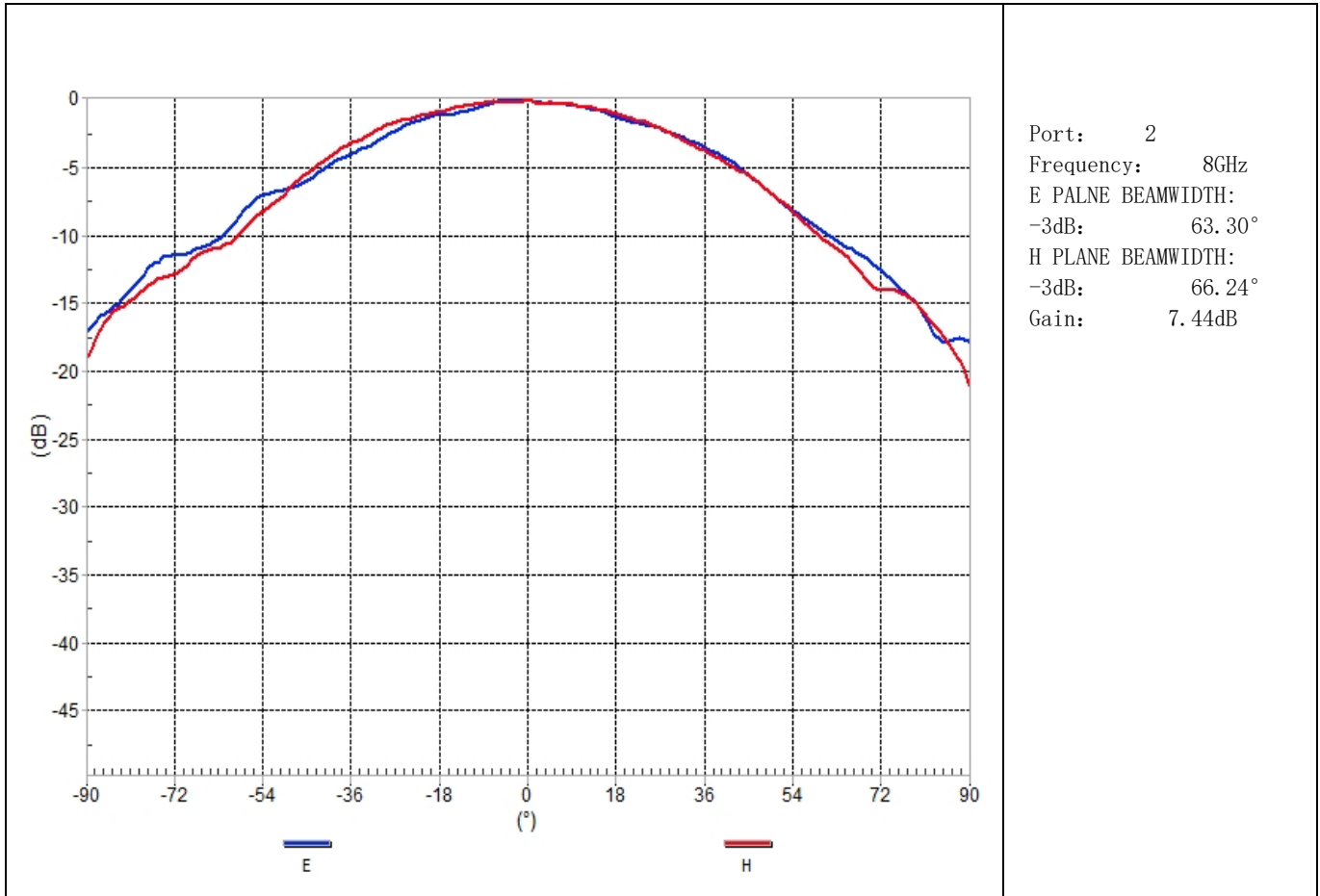


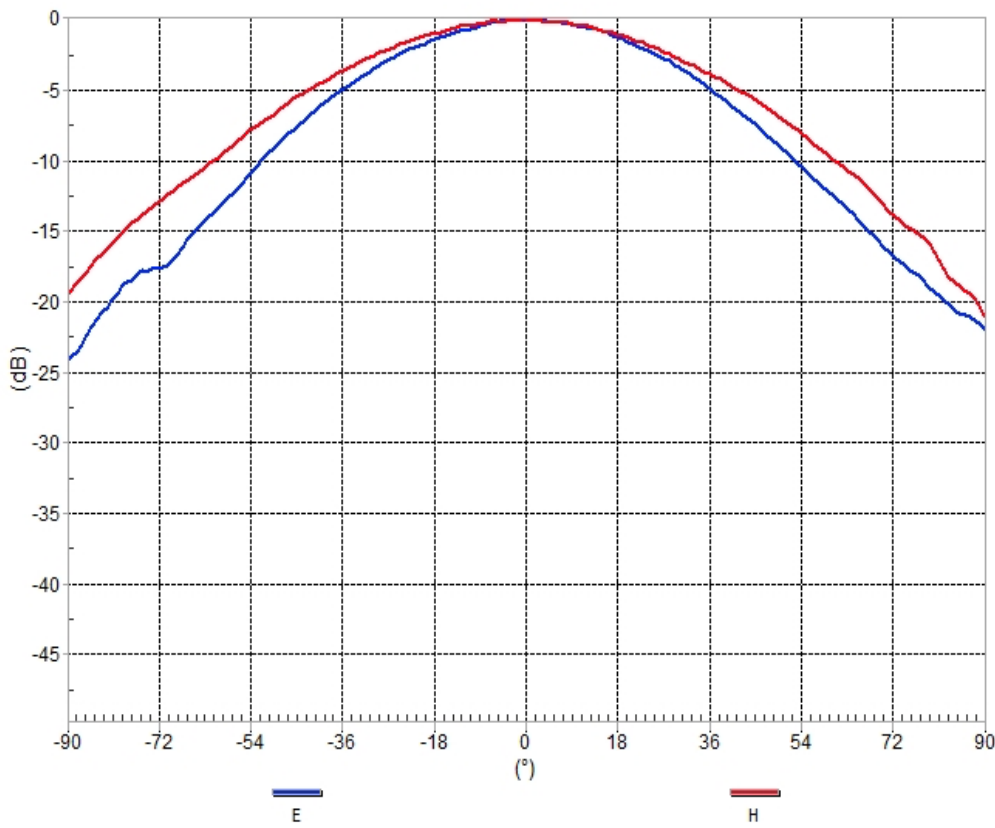
Port: 1
Frequency: 48GHz
Gain: 17.8 dB

H PLANE BW:
-3dB: 18.75°
E PLANE BW
-3dB: 23.58°

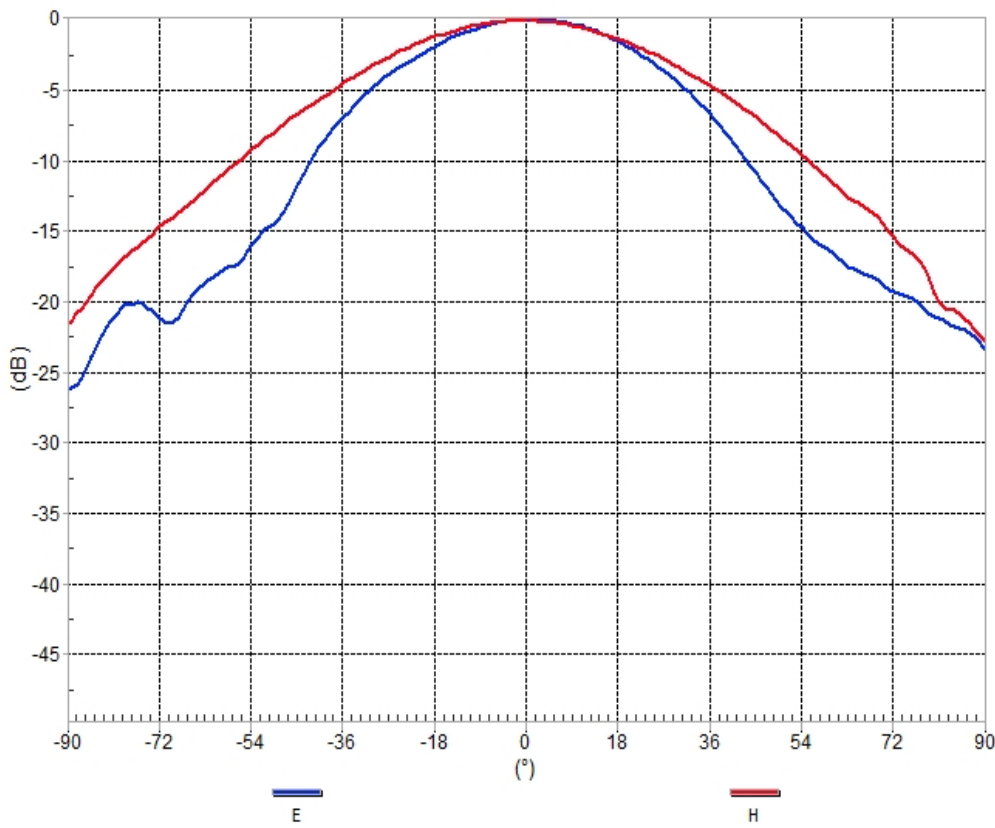


22

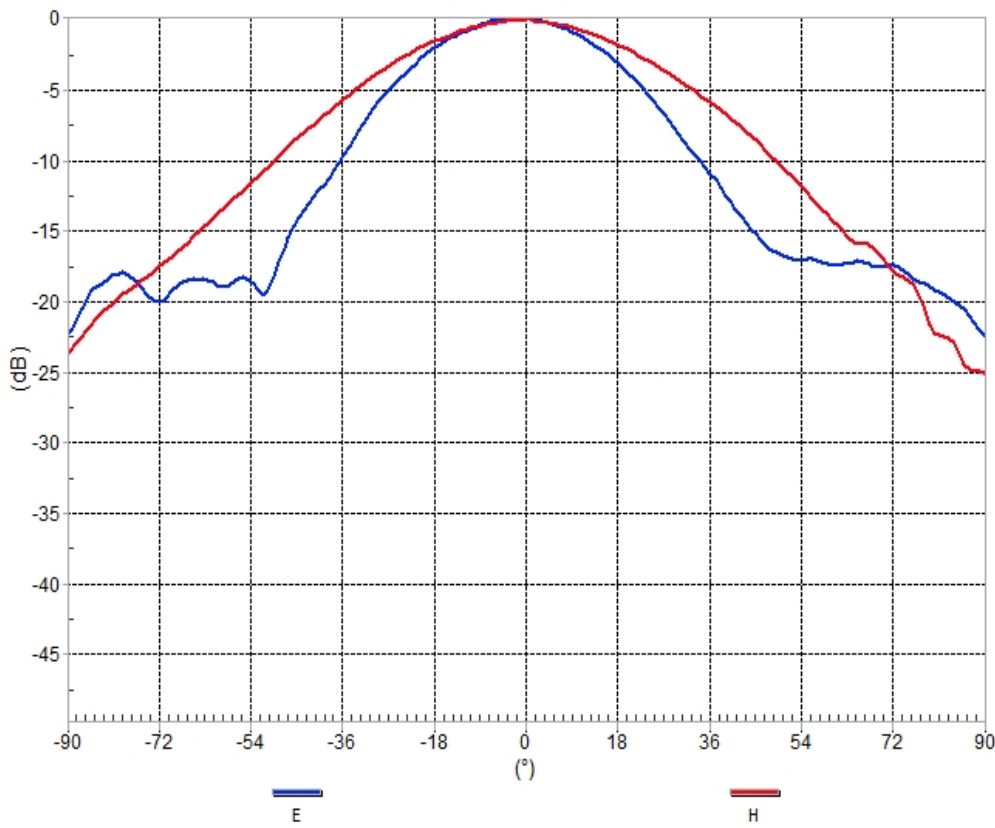




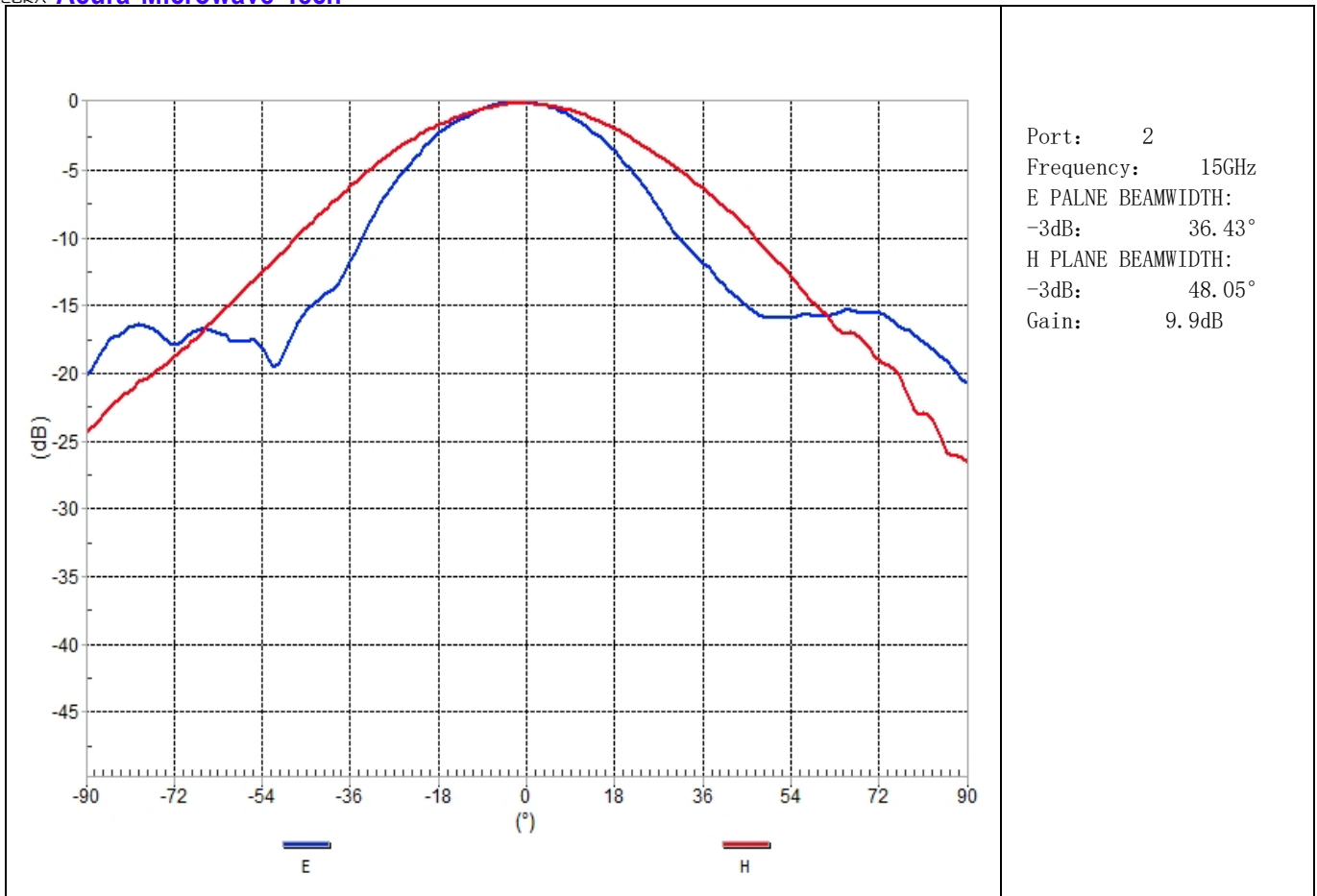
Port: 2
Frequency: 10GHz
E PLANE BEAMWIDTH:
-3dB: 56.10°
H PLANE BEAMWIDTH:
-3dB: 63.73°
Gain: 7.99dB

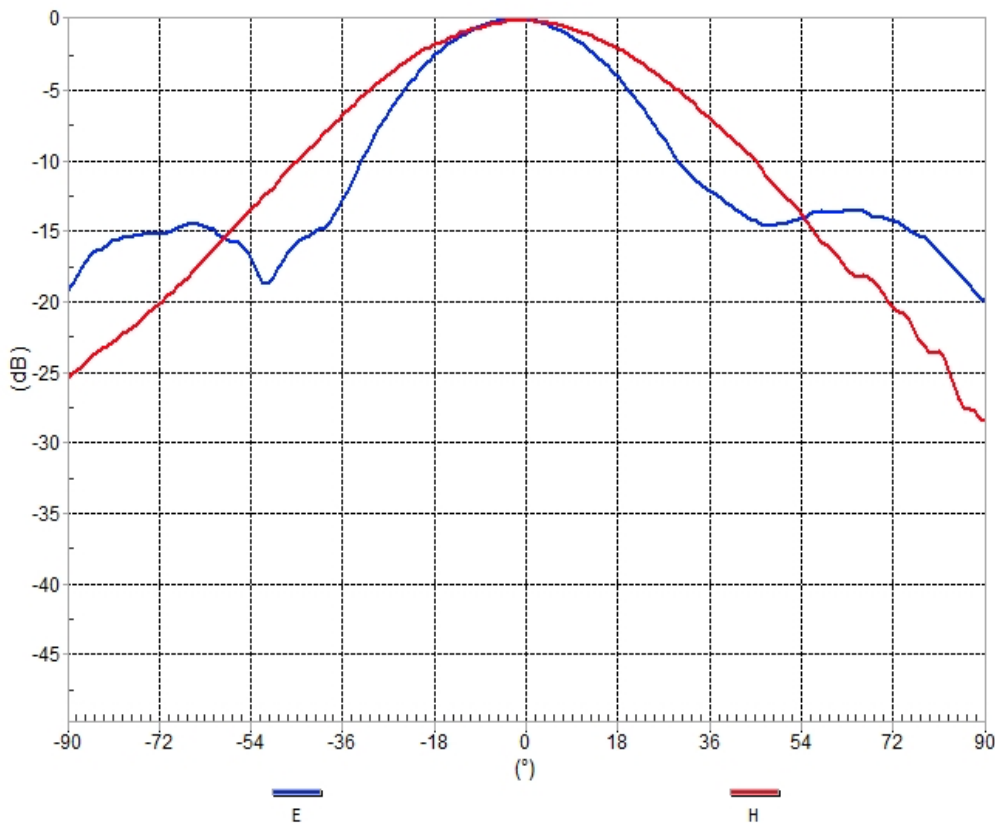


Port: 2
Frequency: 12GHz
E PLANE BEAMWIDTH:
-3dB: 47.82°
H PLANE BEAMWIDTH:
-3dB: 56.56°
Gain: 8.79dB

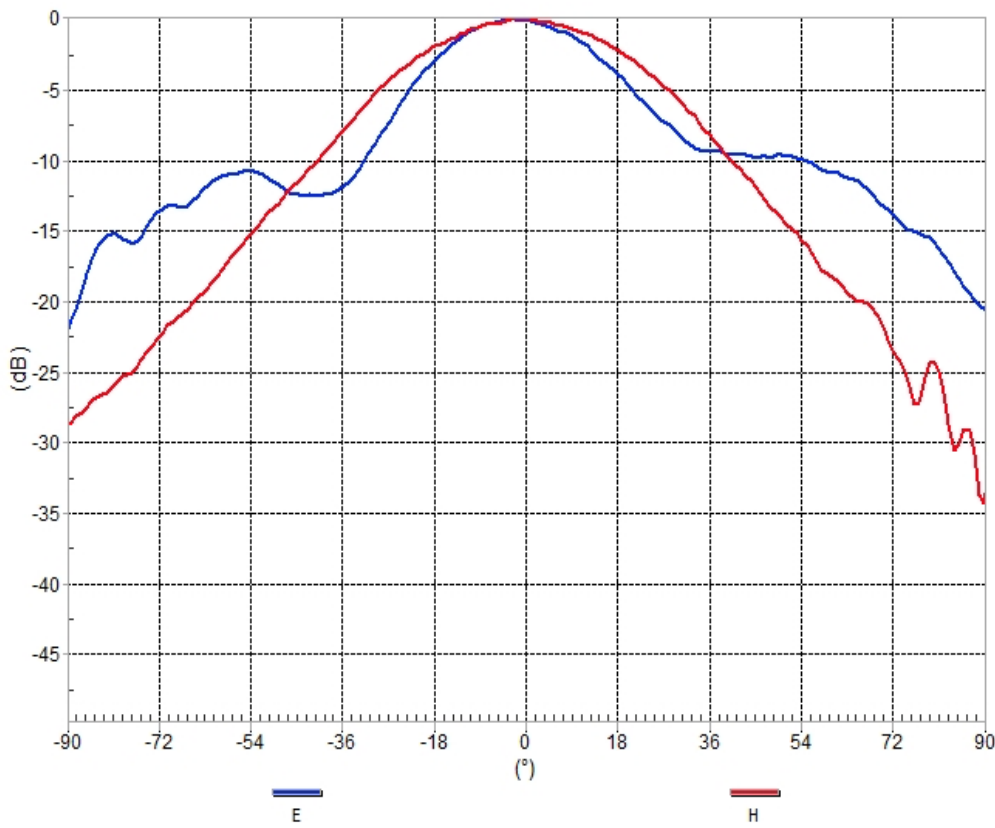


Port: 2
Frequency: 14GHz
E PLANE BEAMWIDTH:
-3dB: 39.00°
H PLANE BEAMWIDTH:
-3dB: 50.09°
Gain: 9.39dB

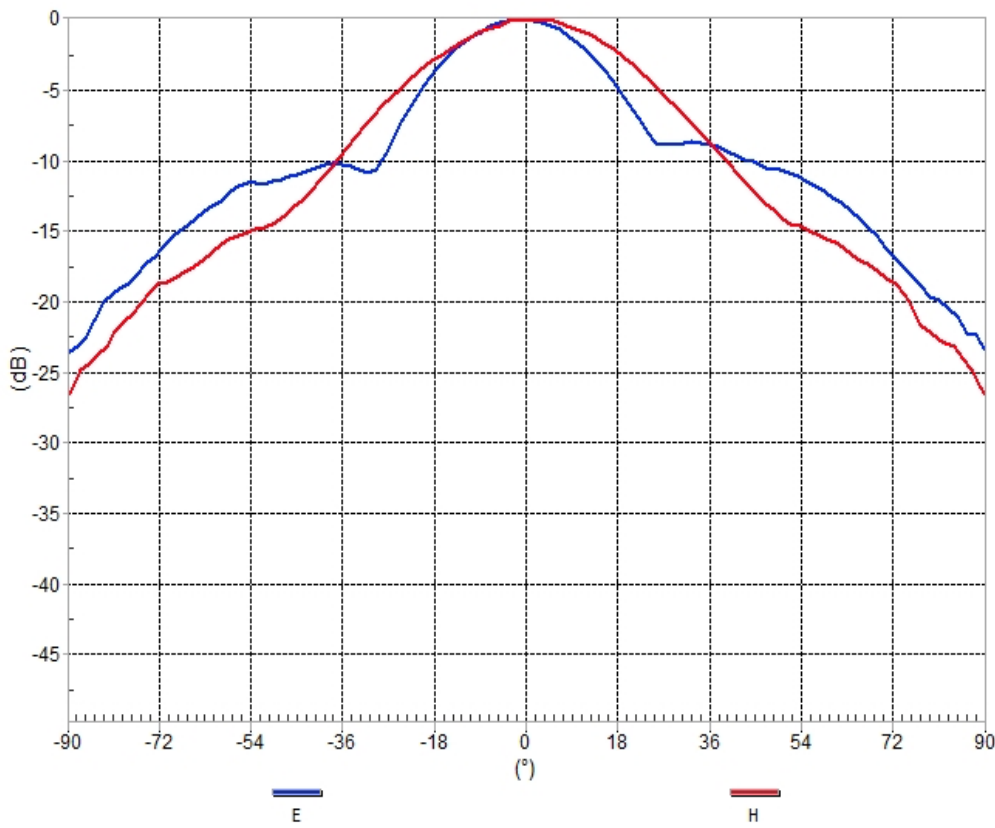




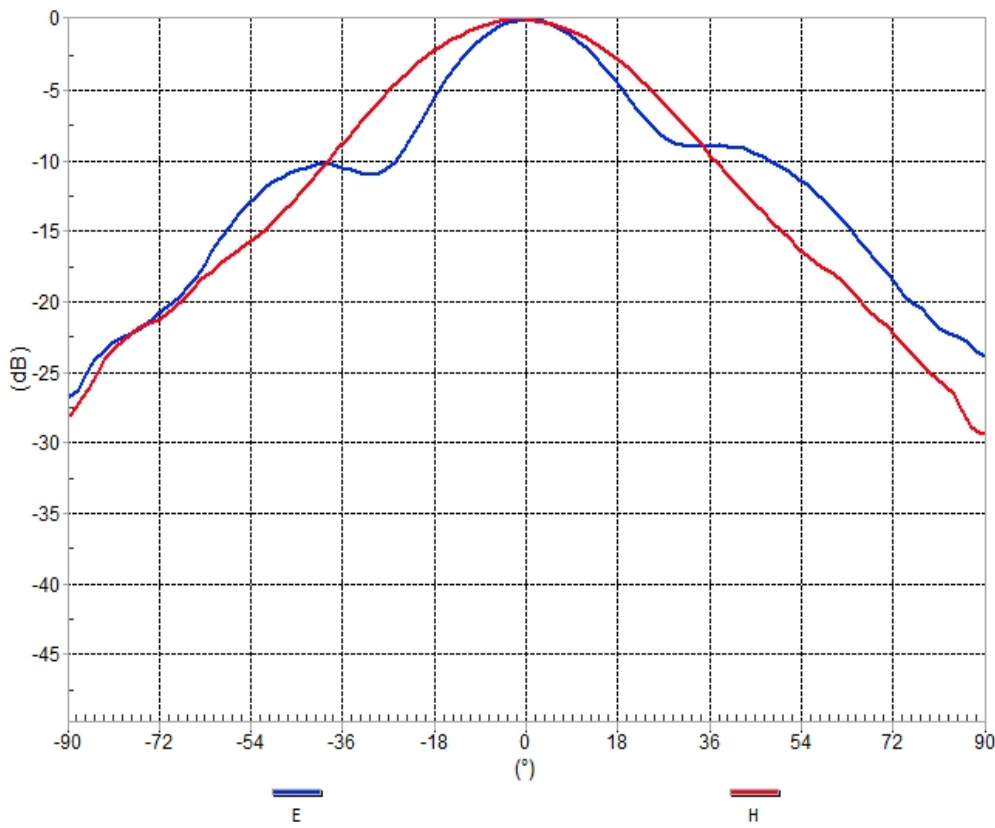
Port: 2
Frequency: 16GHz
E PLANE BEAMWIDTH:
-3dB: 34.45°
H PLANE BEAMWIDTH:
-3dB: 45.87°
Gain: 10.34dB



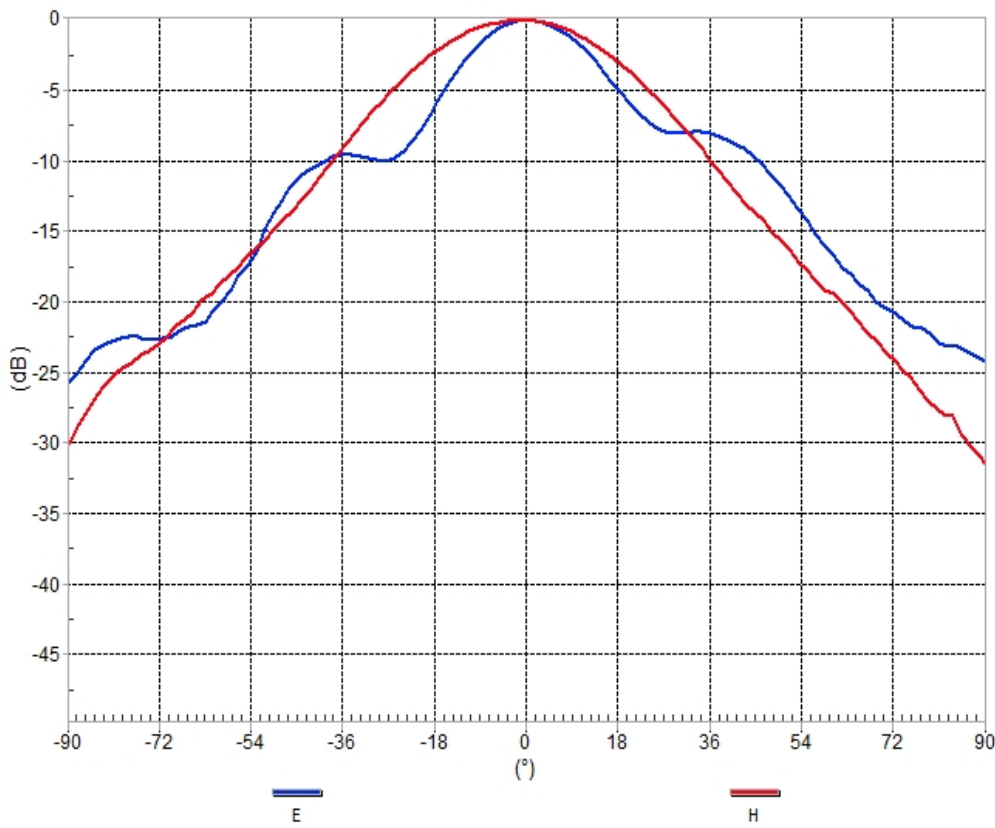
Port: 2
Frequency: 18GHz
E PLANE BEAMWIDTH:
-3dB: 33.42°
H PLANE BEAMWIDTH:
-3dB: 43.77°
Gain: 11.82dB



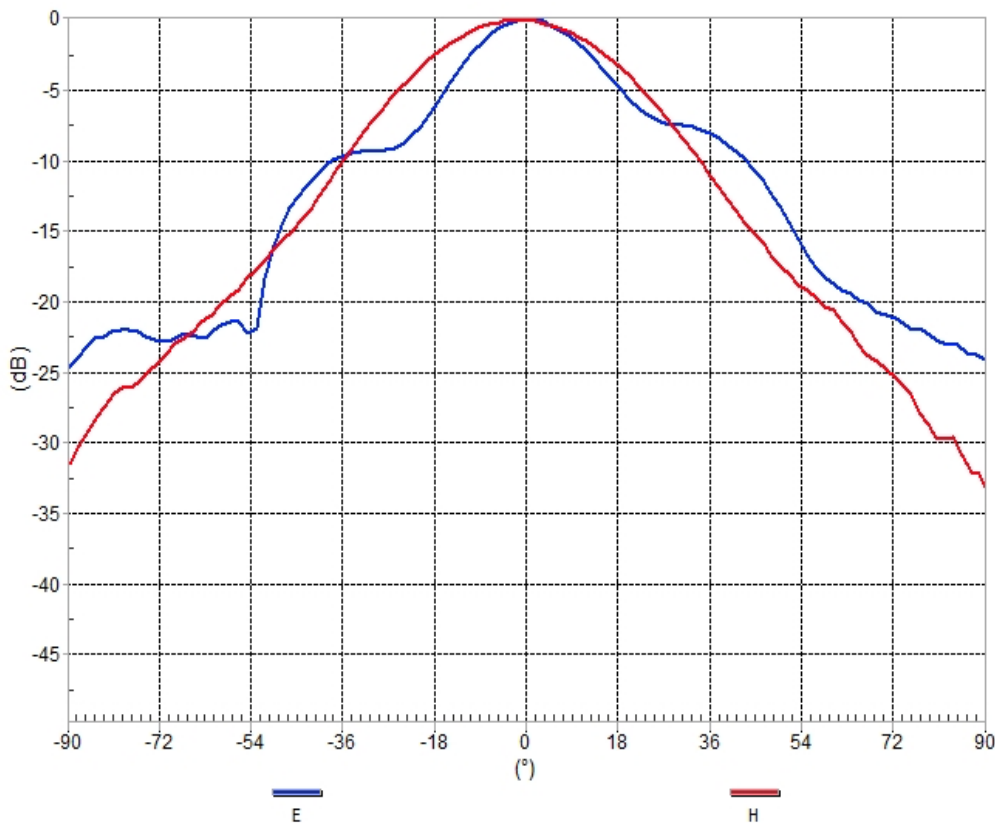
Port: 2
Frequency: 20GHz
E PLANE BEAMWIDTH:
-3dB: 30.17°
H PLANE BEAMWIDTH:
-3dB: 38.75°
Gain: 12.98dB



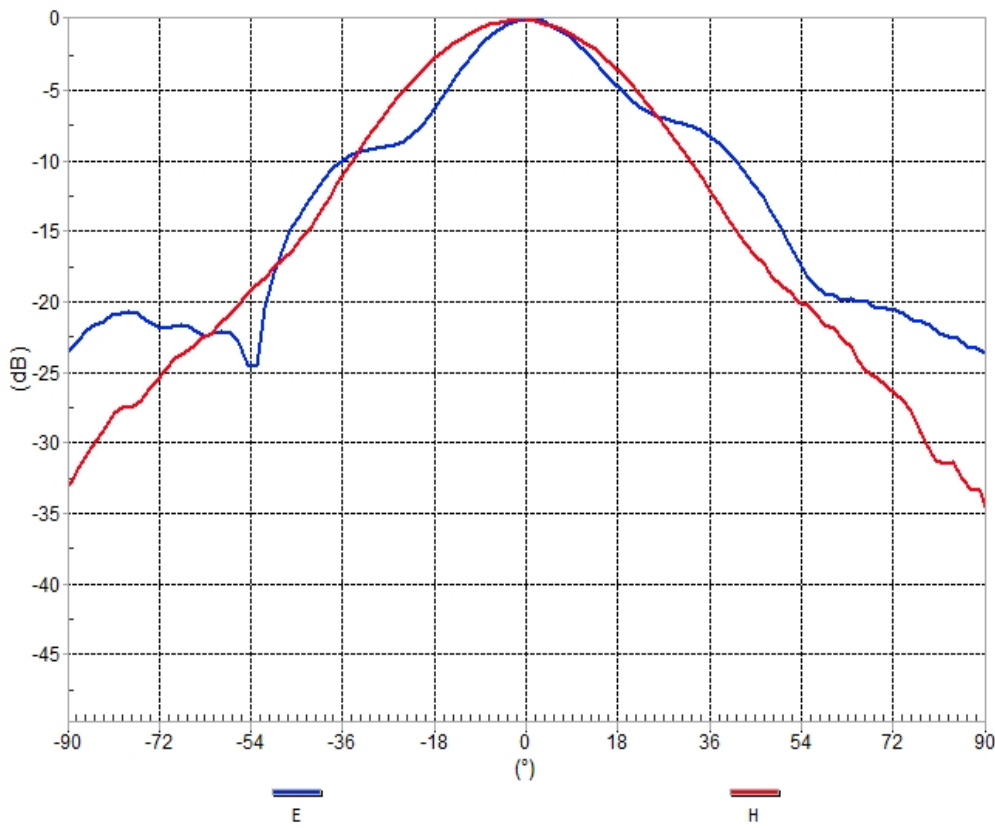
Port: 2
Frequency: 22GHz
E PLANE BEAMWIDTH:
-3dB: 27.66°
H PLANE BEAMWIDTH:
-3dB: 39.50°
Gain: 13.97dB



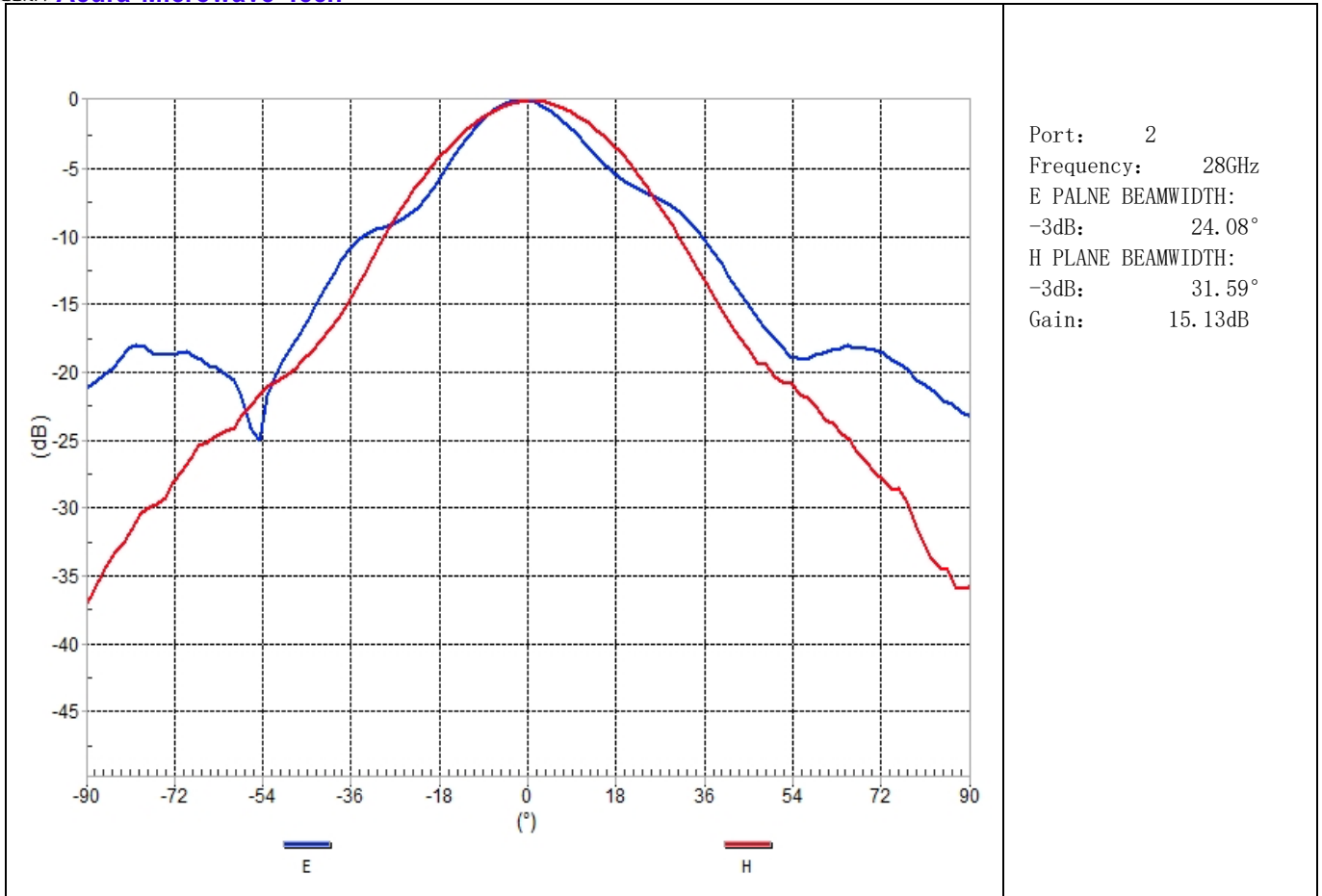
Port: 2
Frequency: 24GHz
E PLANE BEAMWIDTH:
-3dB: 25.90°
H PLANE BEAMWIDTH:
-3dB: 38.49°
Gain: 14.22dB

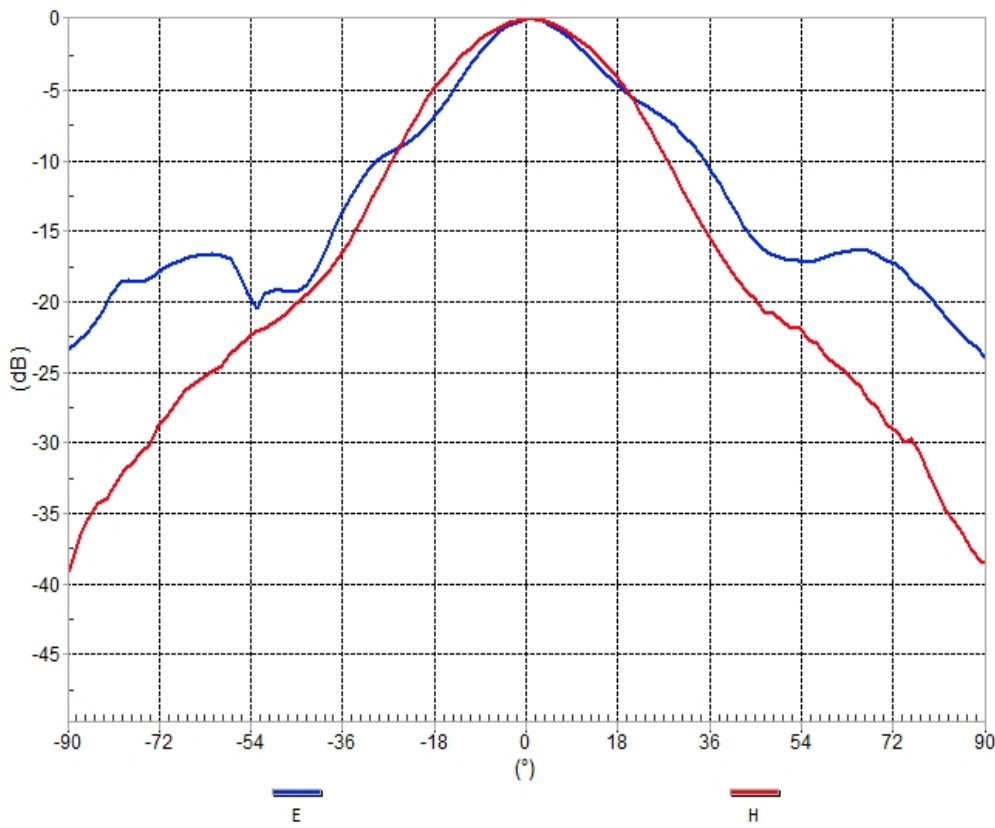


Port: 2
Frequency: 25GHz
E PLANE BEAMWIDTH:
-3dB: 25.81°
H PLANE BEAMWIDTH:
-3dB: 36.93°
Gain: 15.1dB

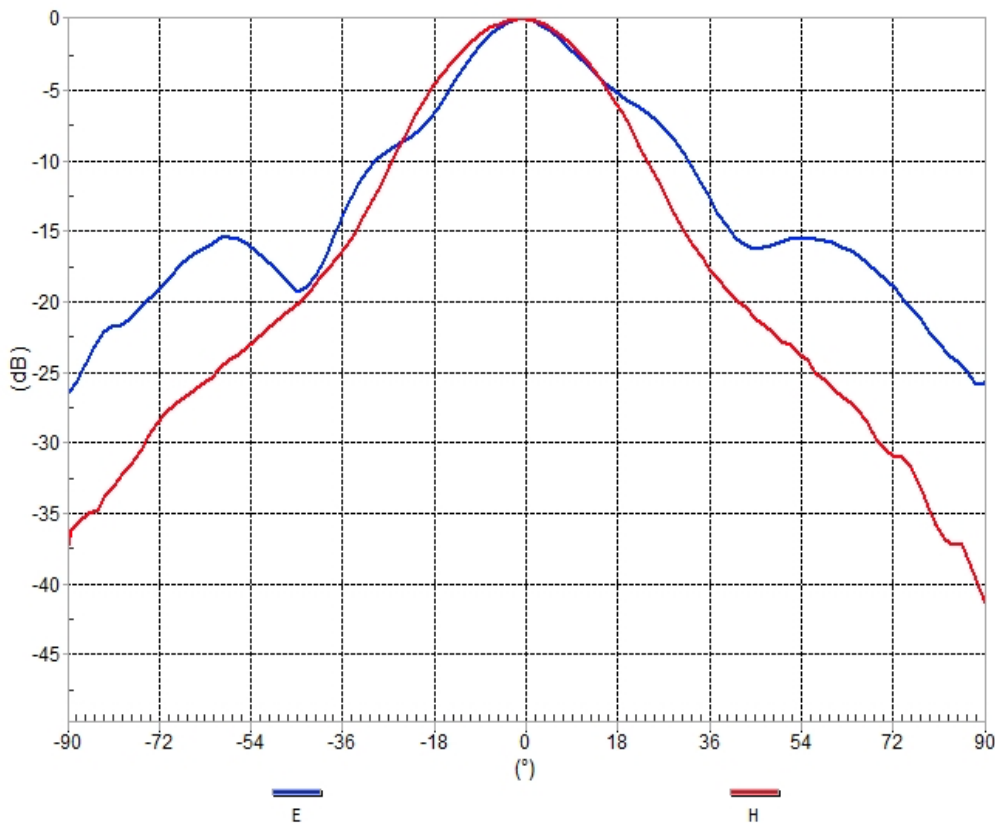


Port: 2
Frequency: 26GHz
E PLANE BEAMWIDTH:
-3dB: 25.26°
H PLANE BEAMWIDTH:
-3dB: 35.08°
Gain: 15.69dB

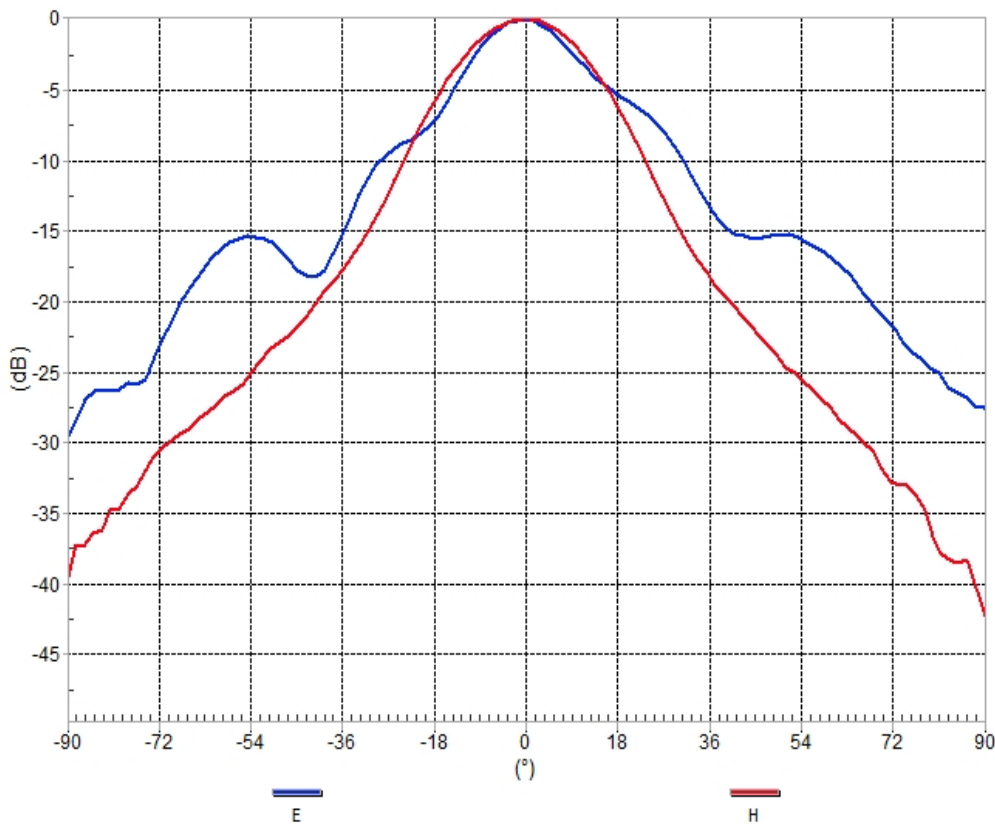




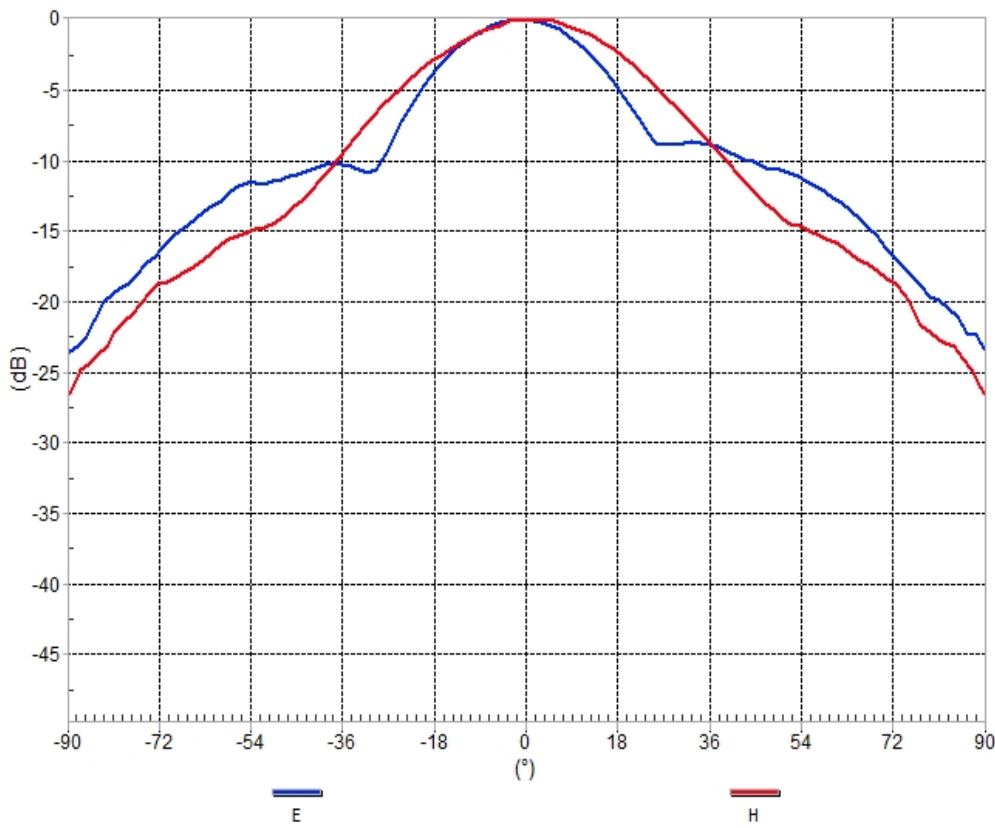
Port: 2
Frequency: 30GHz
E PLANE BEAMWIDTH:
-3dB: 23.83°
H PLANE BEAMWIDTH:
-3dB: 28.82°
Gain: 15.54dB



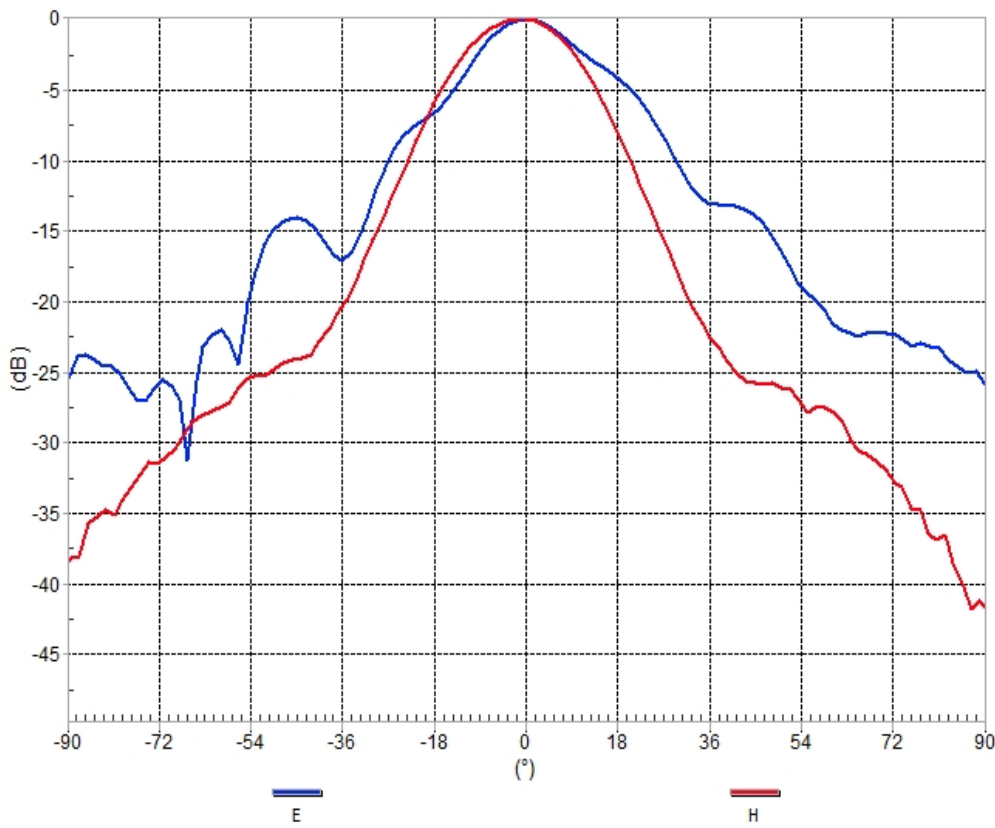
Port: 2
Frequency: 32GHz
E PLANE BEAMWIDTH:
-3dB: 22.73°
H PLANE BEAMWIDTH:
-3dB: 26.68°
Gain: 15.99dB



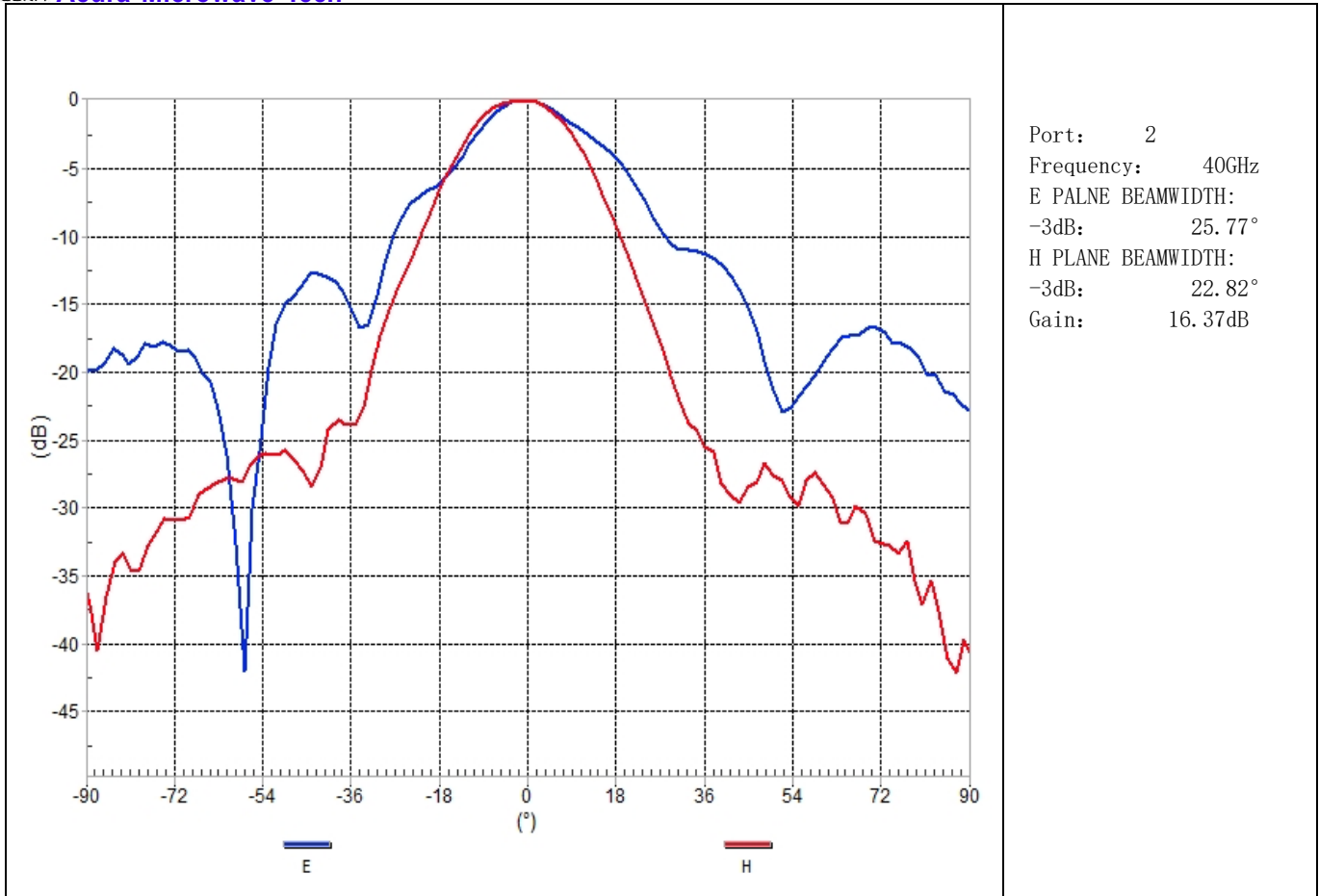
Port: 2
Frequency: 34GHz
E PLANE BEAMWIDTH:
-3dB: 21.50°
H PLANE BEAMWIDTH:
-3dB: 25.15°
Gain: 16.59dB



Port: 2
Frequency: 36GHz
E PLANE BEAMWIDTH:
-3dB: 30.17°
H PLANE BEAMWIDTH:
-3dB: 38.75°
Gain: 16.93dB

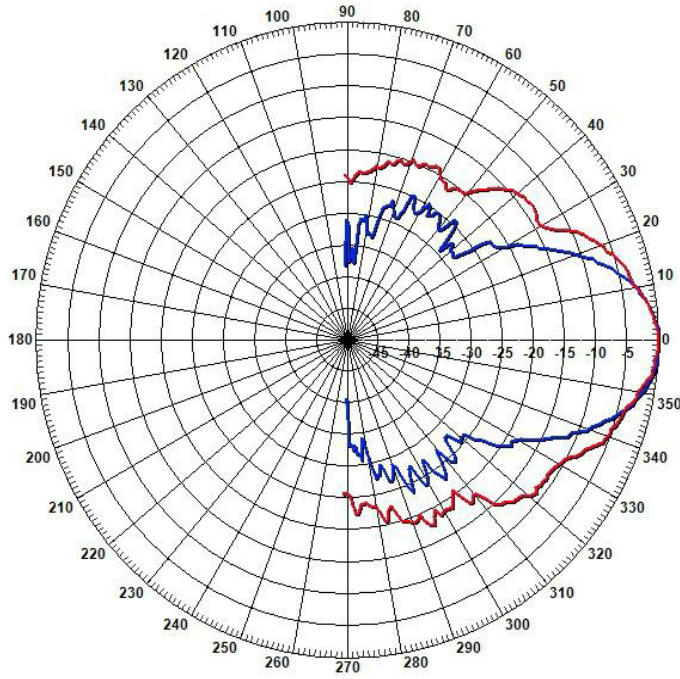


Port: 2
Frequency: 38GHz
E PLANE BEAMWIDTH:
-3dB: 24.08°
H PLANE BEAMWIDTH:
-3dB: 23.69°
Gain: 16.56dB

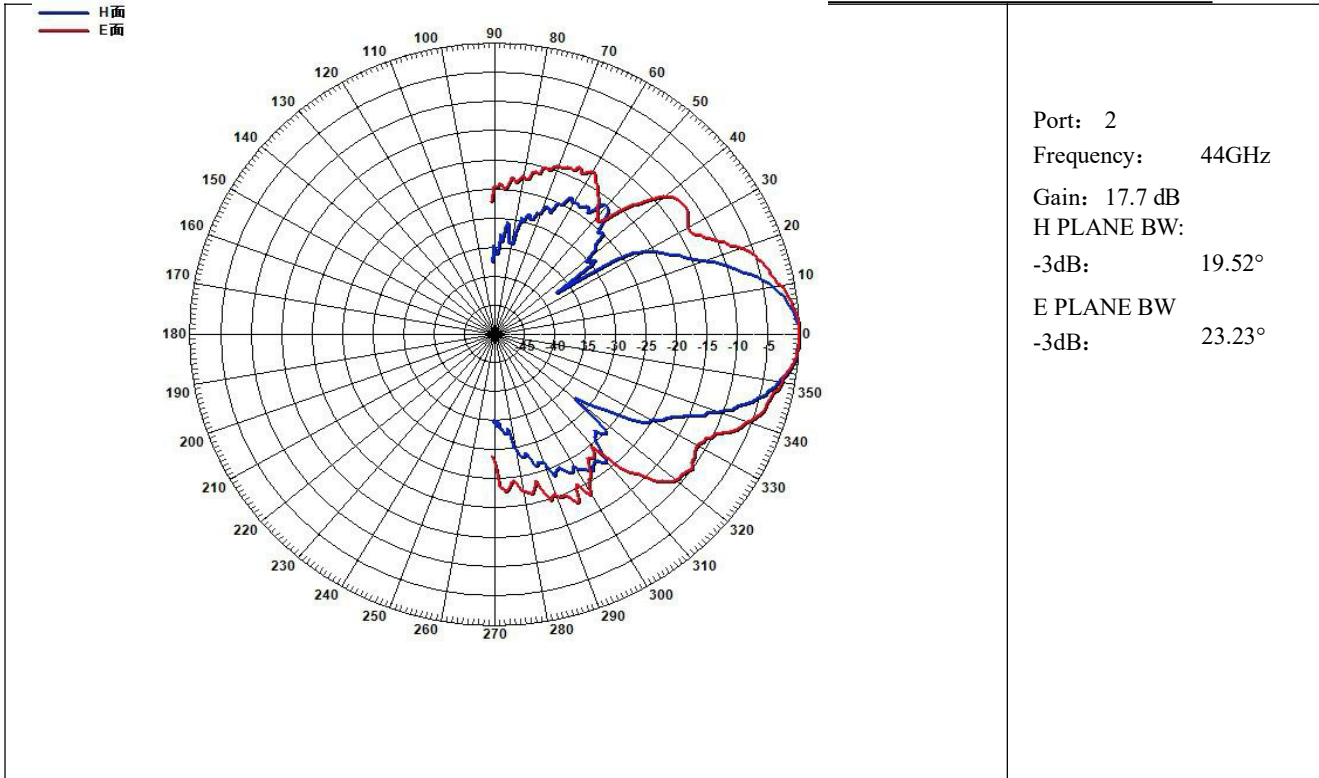




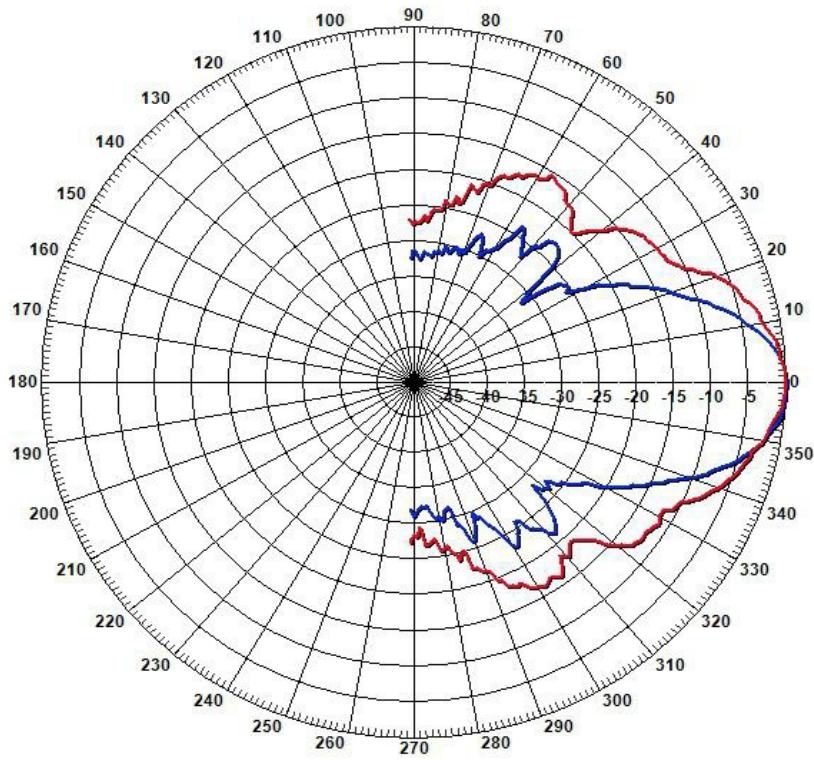
— H面
— E面



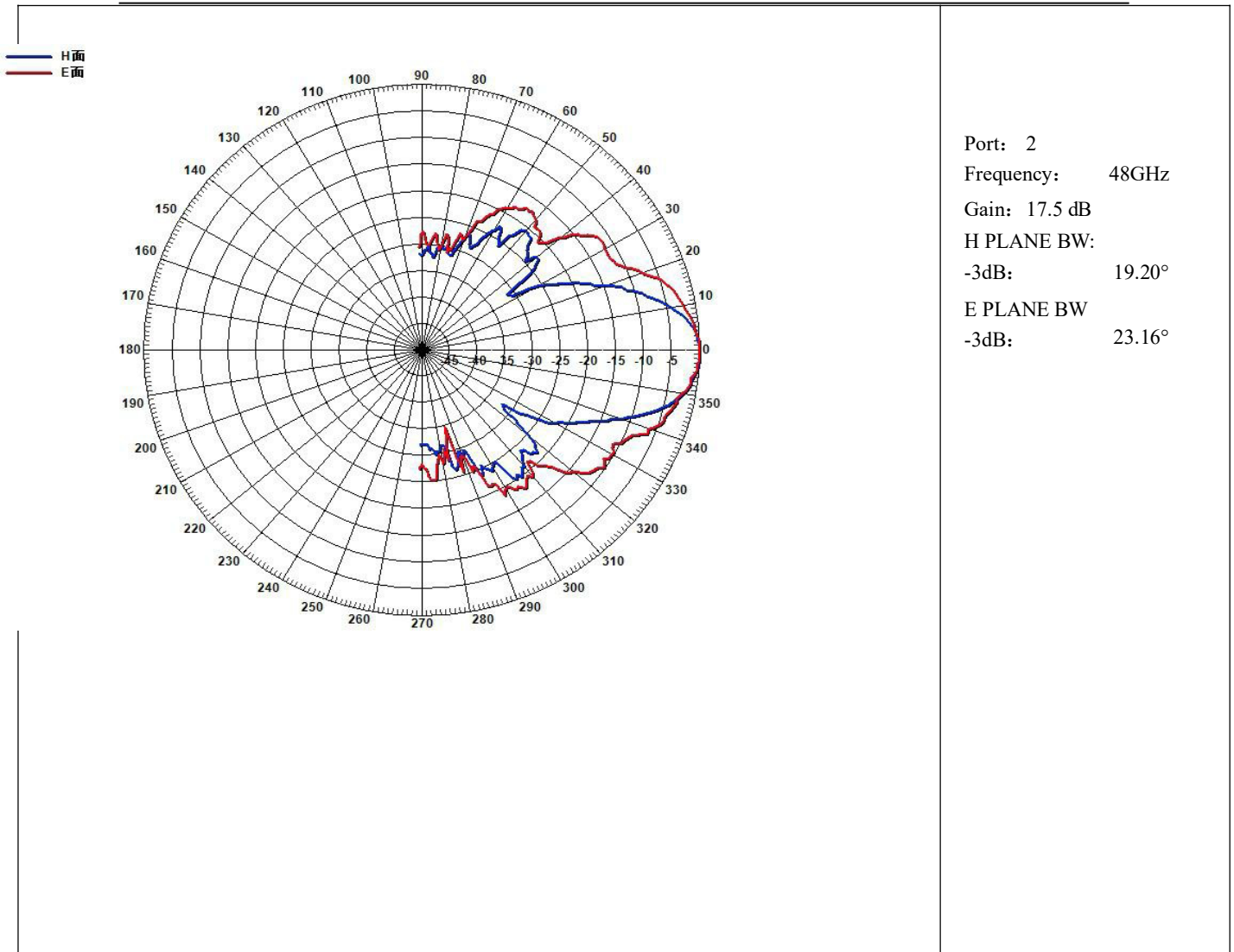
Port: 2
Frequency: 42GHz
Gain: 17.5 dB
H PLANE BW:
-3dB: 22.60°
E PLANE BW
-3dB: 21.59°



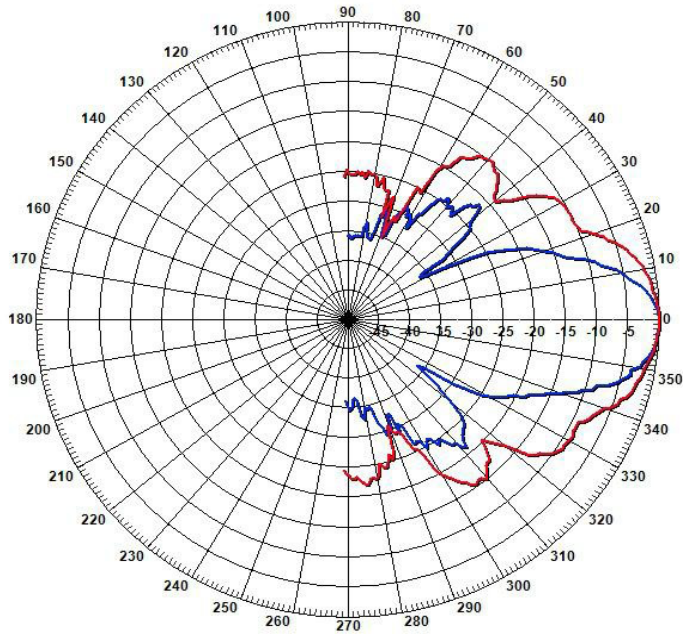
— H面
— E面



Port: 2
Frequency: 46GHz
Gain: 17.5 dB
H PLANE BW:
-3dB: 19.51°
E PLANE BW
-3dB: 23.48°



— H面
— E面



Port: 2
 Frequency: 50GHz
 Gain: 16.9 dB
 H PLANE BW:
 -3dB: 17.00°
 E PLANE BW:
 -3dB: 27.54°