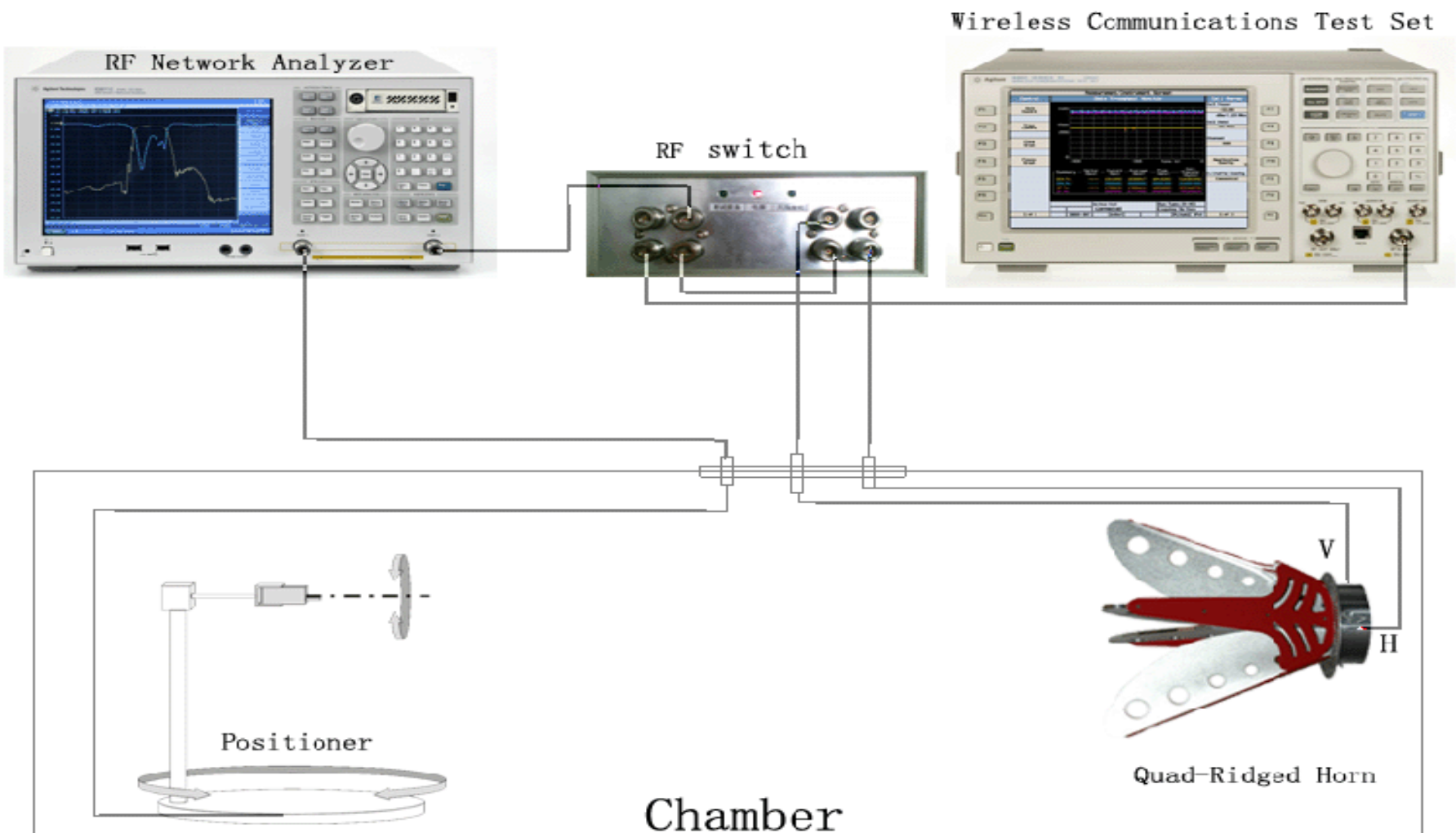


Shenzhen ATN communication equipment Co.Ltd

Antenna test report

customer:		Project	AC203RM	date	2023. 4. 15
Band	2. 4G-2. 48G				
Report version	V2. 0				
Antenna type	chip antenna(model number: HM2012ANT2450-HM1)				

Test system



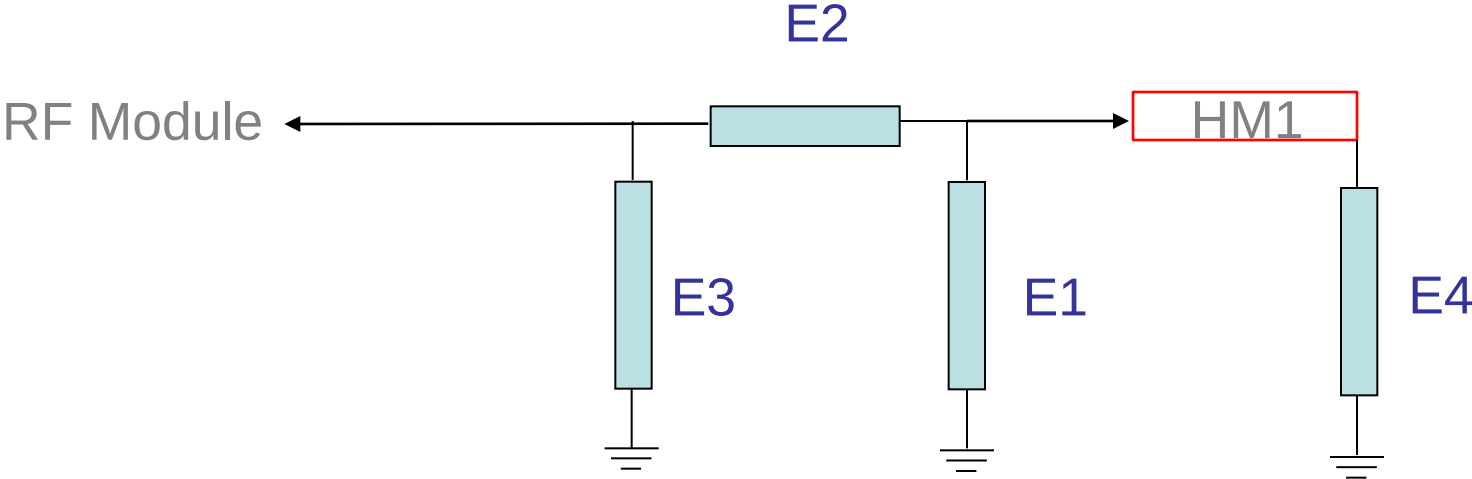
Antenna photo



Catalog

1. Matching circuit
2. Antena data

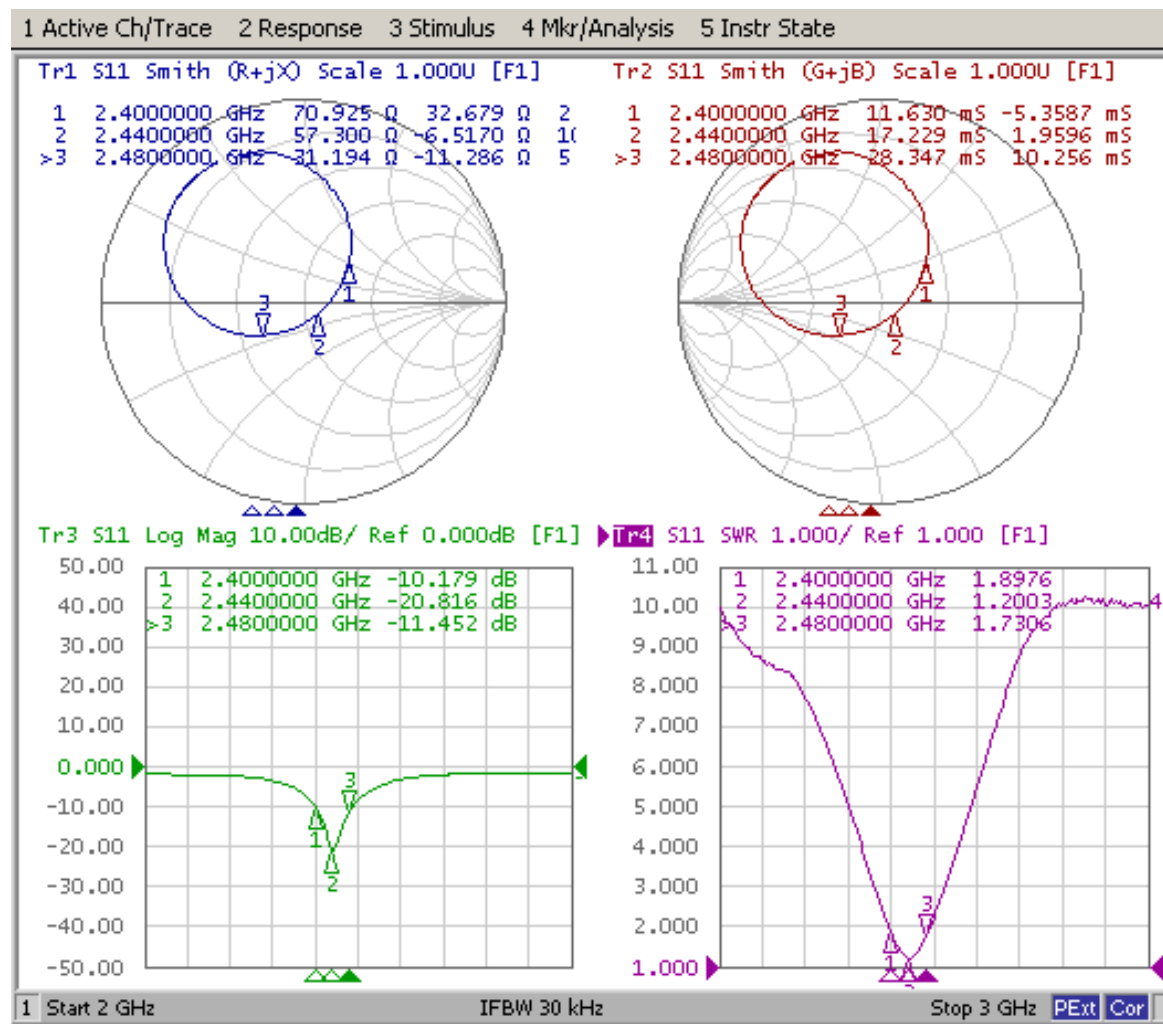
1. Matching circuit



Element	Value
E1(0402)	1.5PF
E2(0402)	0Ω
E3(0402)	NC
E4(0402)	2.2nH

2、Antenna data

2.1 S11 Parameter

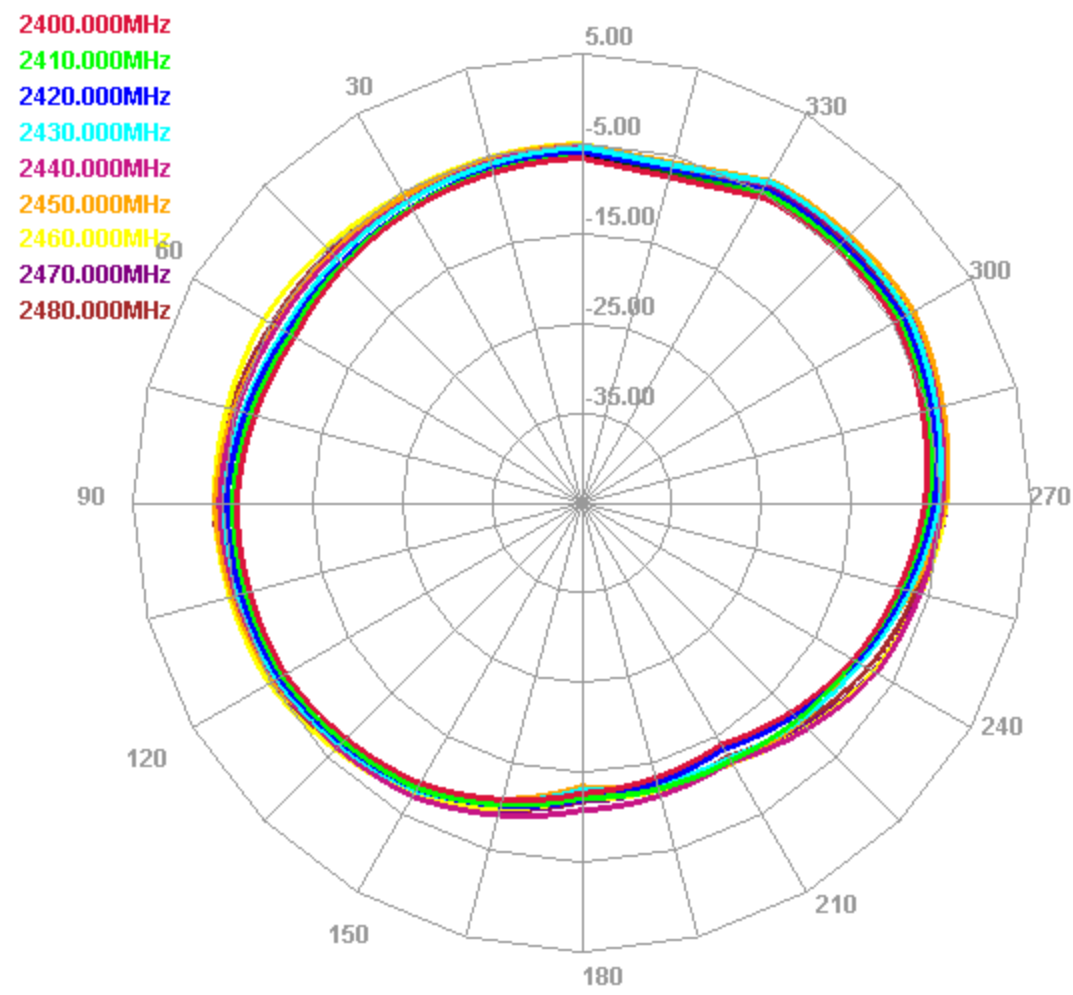


2.2 Gain & Efficiency

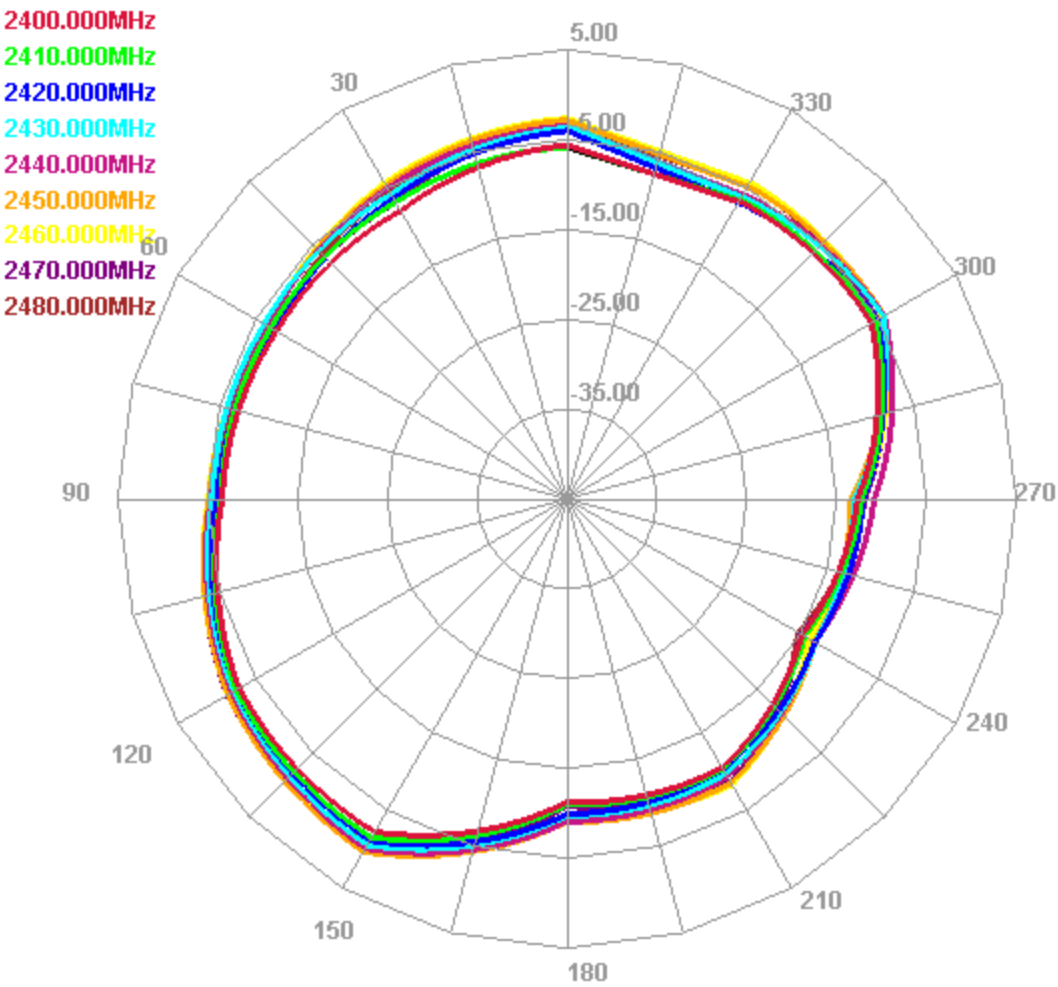
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	18.29	-7.38	-2.2
2410	19.96	-7	-1.5
2420	21.93	-6.59	-1.11
2430	24.81	-6.05	-0.52
2440	26.35	-5.79	-0.07
2450	28.76	-5.41	0.34
2460	29.12	-5.36	0.14
2470	27.49	-5.61	-0.01
2480	25.93	-5.86	-0.58

2.3 Radiation pattern

Horizontal



E1 Face



E2 Face

