

Antenna Specification

Customer	
Project	Z12
Antenna BAND	
Product Description	2.4G
Product No	HZ1281

Shenzhen Hongzhi Technology Co., Ltd
3rd Floor, No. 5 Yongxin Street, Yingrenshi Community,
Shiyan Street, Bao'an District, Shenzhen

Type of Antenna: FPC Antenna

Purpose

This report is to measure the performance of BT antenna for z12
The antenna operating frequency at 2.4G 5.8G All test data are showed as below.

Content:

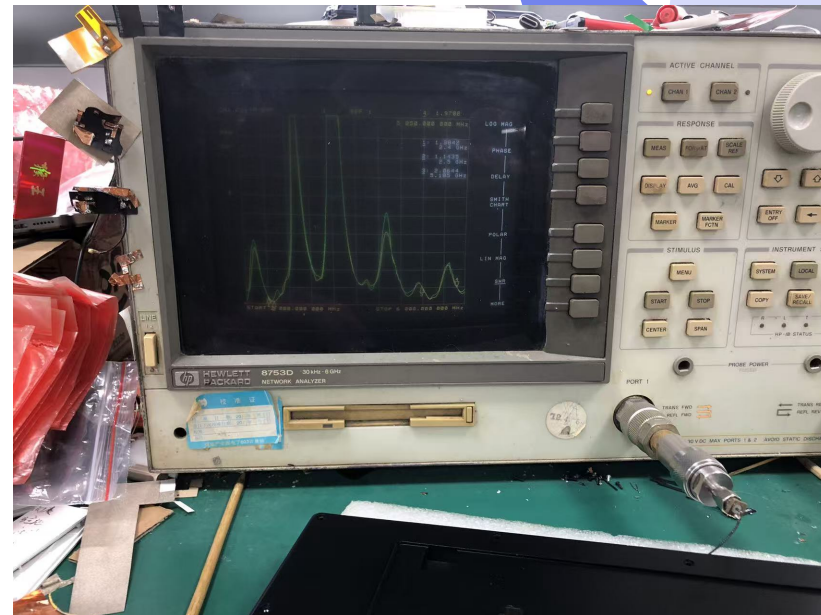
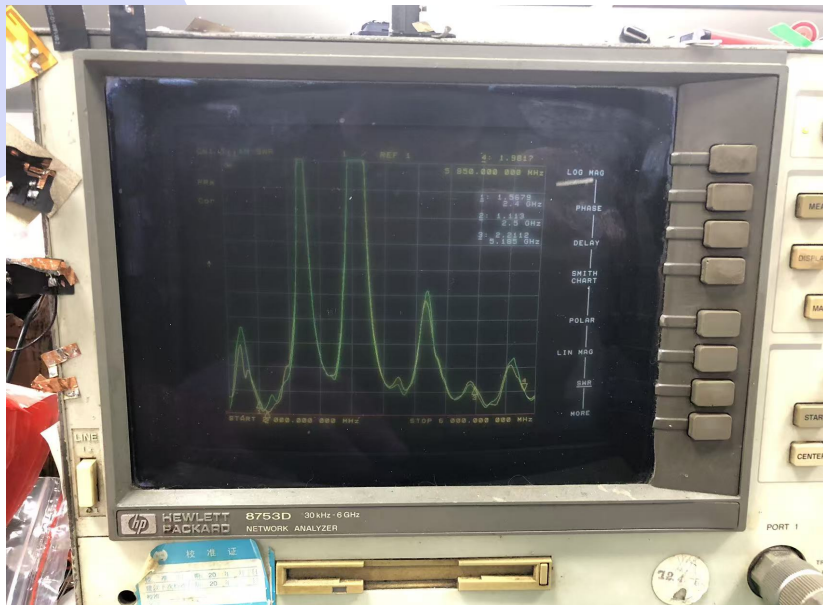
1. Product Overview & Dimension
2. Test system
3. Test Result
 - 3.1 **2.4G** S11 Parameter
 - 3.2 **2.4G** Gain&Efficiency
 - 3.3 Pattern
 - 3.4 Pattern
 - 3.5 Pattern
 - 4.1 **5.8G** Gain&Efficiency
 - 4.2 Pattern
 - 4.3 Pattern
 - 4.4 Pattern

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS& SATIMO & Agilent 8960
Gain & Efficiency	Gain & Efficiency	ETS& SATIMO Agilent 5071C



3.1 2.4G S11 Parameter

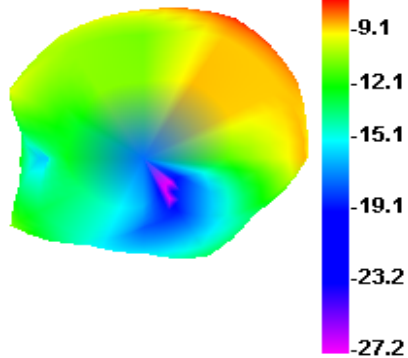


3.2 2.4G Gain&Efficiency

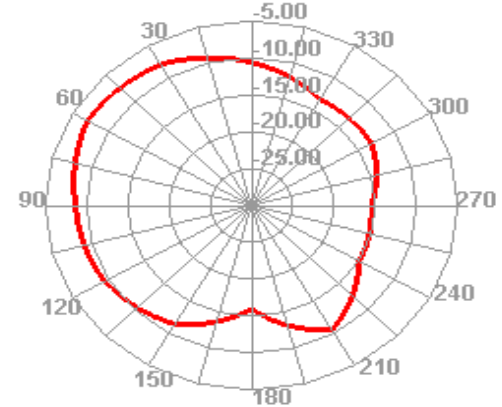
Froequency(MHz)	Efficiency(%)	Gain(dBi)
2400	15.41	-1.38
2410	15.86	-1.30
2420	16.66	-1.11
2430	15.88	-1.26
2440	16.15	-1.24
2450	15.54	-1.39
2460	14.92	-1.20
2470	15.62	-1.03
2480	15.91	-0.95
2490	16.57	-1.20
2500	16.10	-1.20

2.4G Pattern

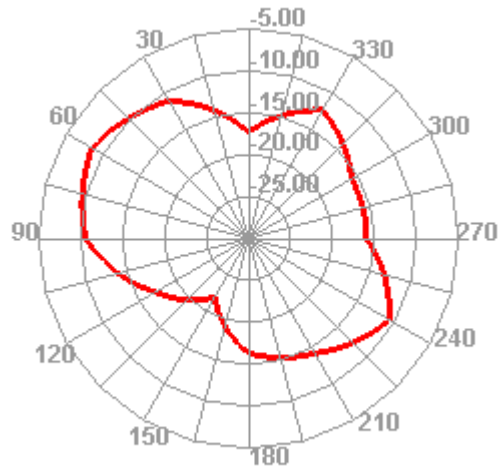
2400.000MHz



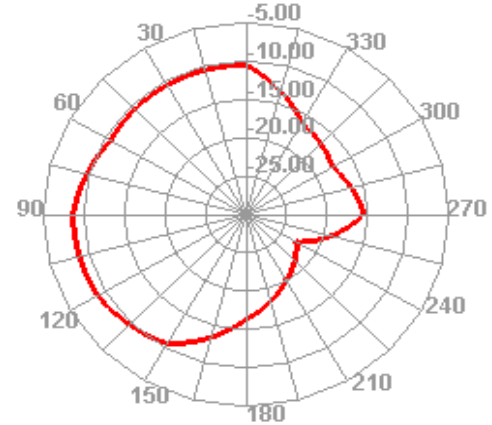
2400.000MHz H



2400.000MHz E1

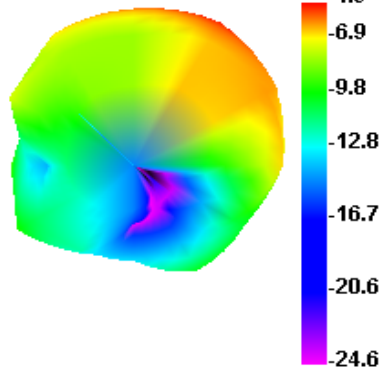


2400.000MHz E2

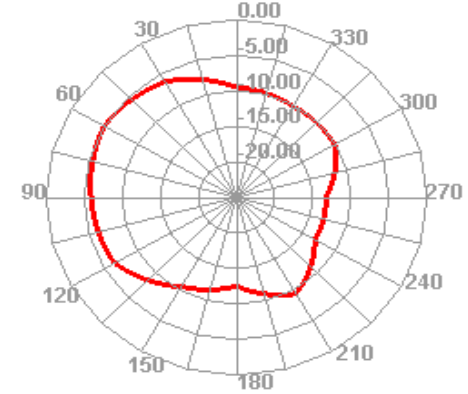


2.4G Pattern

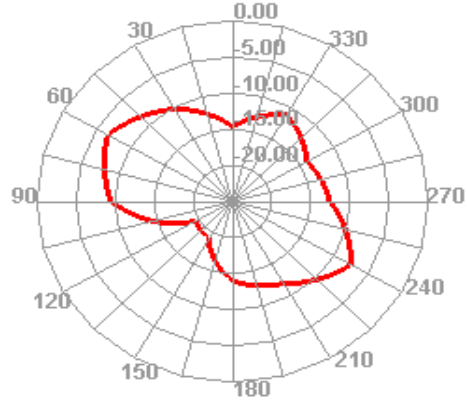
2450.000MHz



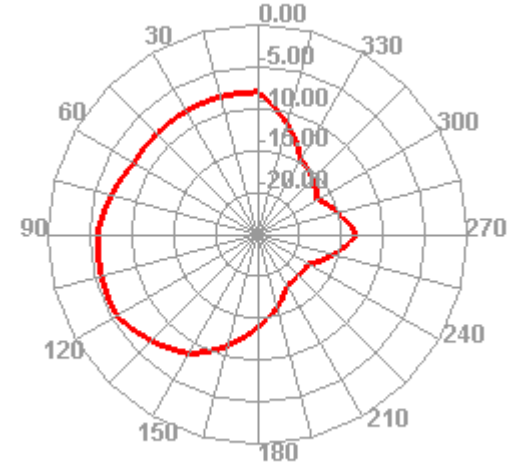
2450.000MHz H



2450.000MHz E1

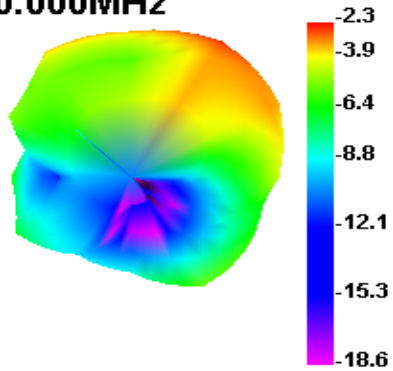


2450.000MHz E2

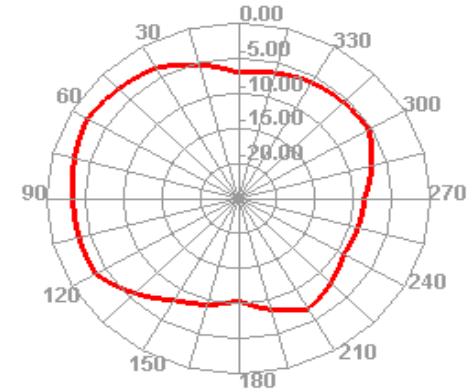


2.4G Pattern

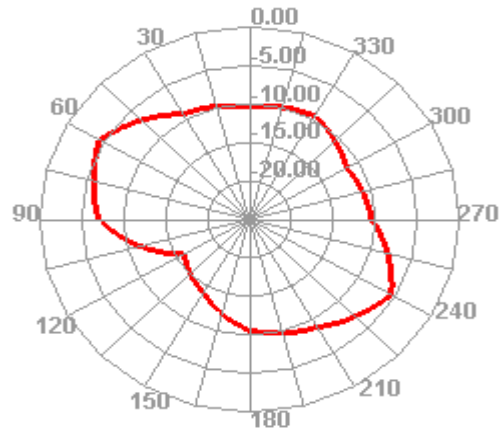
2500.000MHz



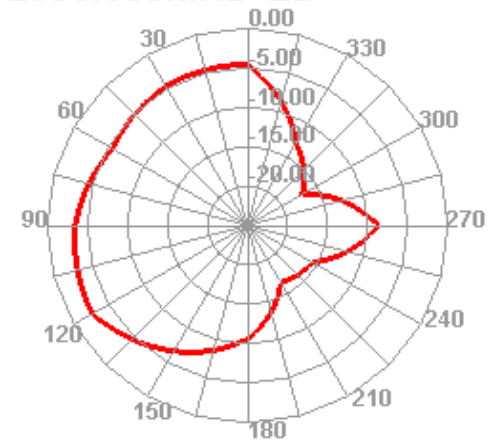
2500.000MHz H



2500.000MHz E1



2500.000MHz E2

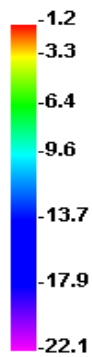
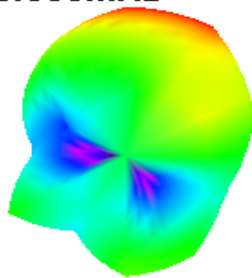


4.1 5.8G Gain&Efficiency

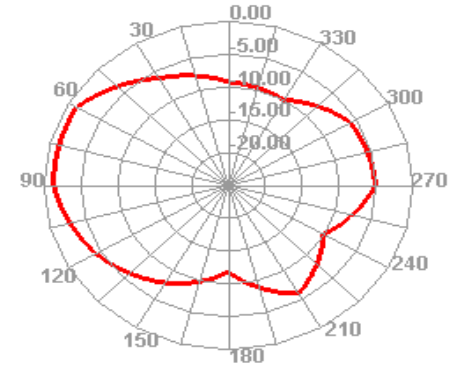
Freq (MHz)	Effi (%)	Effi (dB)	Freq (MHz)	Effi (%)	Effi (dB)	Freq (MHz)	Effi (%)	Effi (dB)
5150	15.53	-8.09	5390	30.39	-5.17	5630	23.08	-6.37
5160	16.81	-7.74	5400	36.45	-4.38	5640	22.86	-6.41
5170	16.36	-7.86	5410	35.22	-4.53	5650	21.55	-6.67
5180	16.29	-7.88	5420	26.9	-5.7	5660	23.24	-6.34
5190	15.09	-8.21	5430	25.34	-5.96	5670	23.56	-6.28
5200	19.07	-7.2	5440	24.32	-6.14	5680	24.54	-6.1
5210	22.52	-6.47	5450	23.67	-6.26	5690	23.42	-6.3
5220	24.36	-6.13	5460	25.33	-5.96	5700	22.74	-6.43
5230	24.42	-6.12	5470	21.49	-6.68	5710	19.79	-7.03
5240	22.6	-6.46	5480	18.9	-7.24	5720	18.54	-7.32
5250	23.03	-6.38	5490	18.09	-7.42	5730	18.85	-7.25
5260	25.63	-5.91	5500	20.24	-6.94	5740	21.11	-6.76
5270	26.67	-5.74	5510	23.8	-6.23	5750	21.46	-6.68
5280	28.22	-5.49	5520	23.98	-6.2	5760	23.8	-6.23
5290	27.77	-5.56	5530	23.6	-6.27	5770	22.31	-6.52
5300	25.09	-6	5540	25.49	-5.94	5780	19.63	-7.07
5310	23.71	-6.25	5550	23.46	-6.3	5790	20.56	-6.87
5320	26.13	-5.83	5560	25.25	-5.98	5800	19.65	-7.07
5330	28.88	-5.39	5570	24.32	-6.14	5810	21.99	-6.58
5340	26.13	-4.14	5580	22.49	-6.48	5820	24.57	-6.1
5350	31.74	-4.98	5590	24.77	-6.06	5830	22.44	-6.49
5360	26.6	-5.75	5600	23.12	-6.36	5840	22.74	-6.43
5370	24.89	-6.04	5610	23.79	-6.24	5850	20.29	-6.93
5380	25.91	-5.86	5620	23.55	-6.28			

5. 8G Pattern

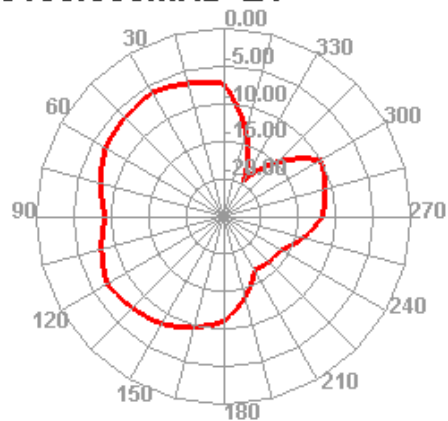
5150.000MHz



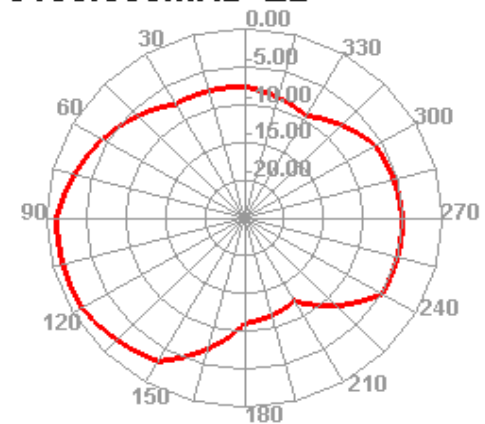
5150.000MHz H



5150.000MHz E1

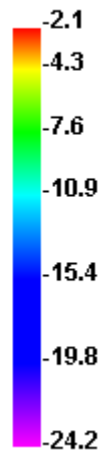
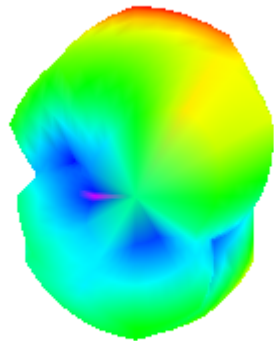


5150.000MHz E2

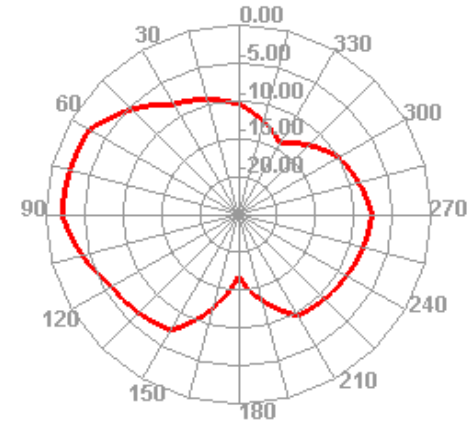


5.8G Pattern

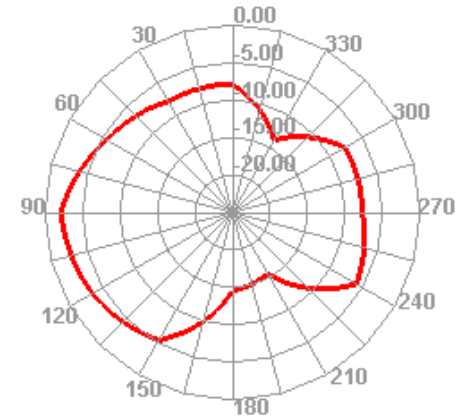
5250.000MHz



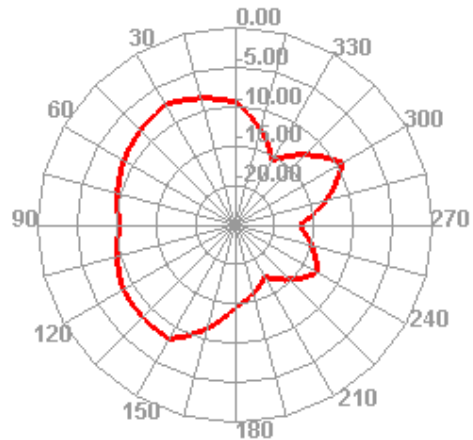
5250.000MHz H



5250.000MHz E2

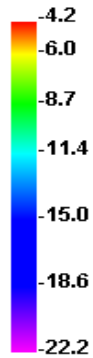
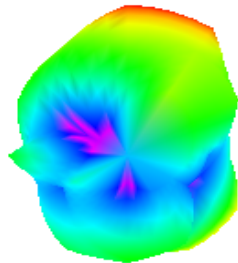


5250.000MHz E1

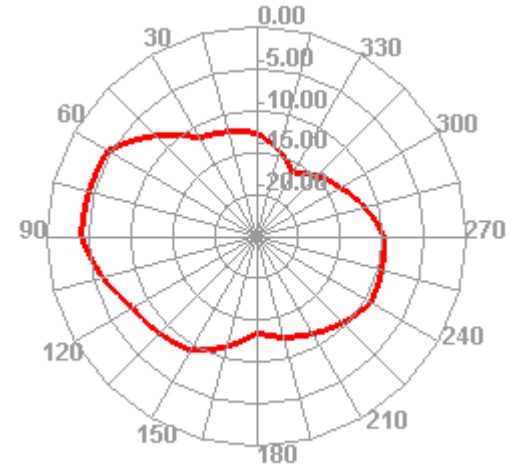


5.8G Pattern

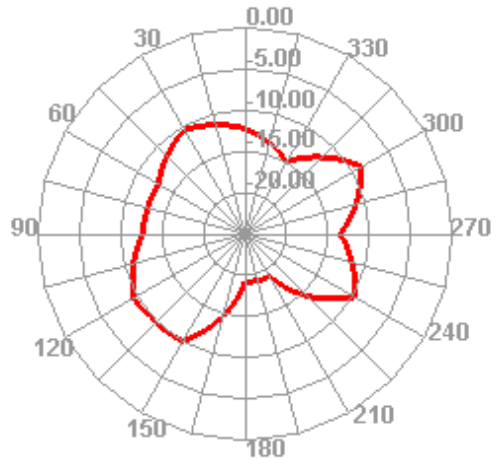
5350.000MHz



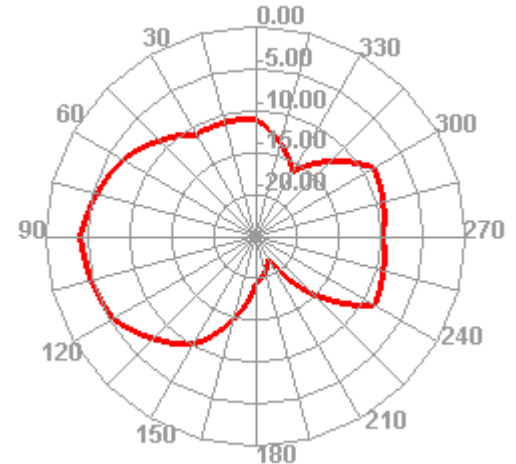
5350.000MHz H



5350.000MHz E1

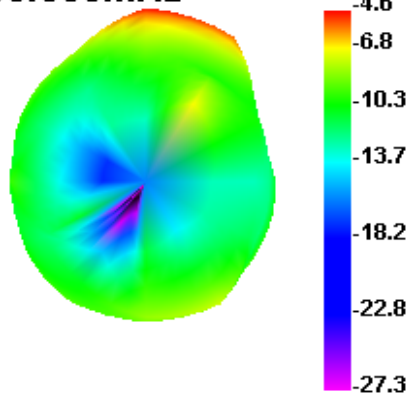


5350.000MHz E2

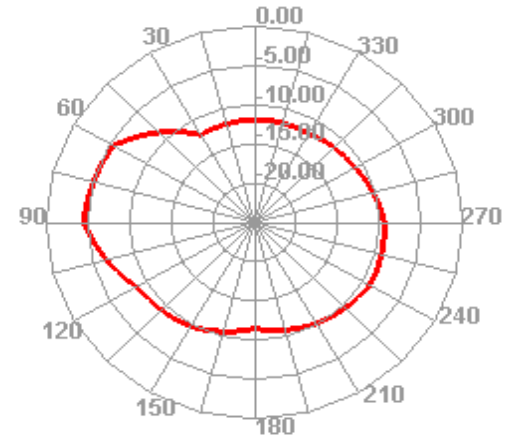


5.8G Pattern

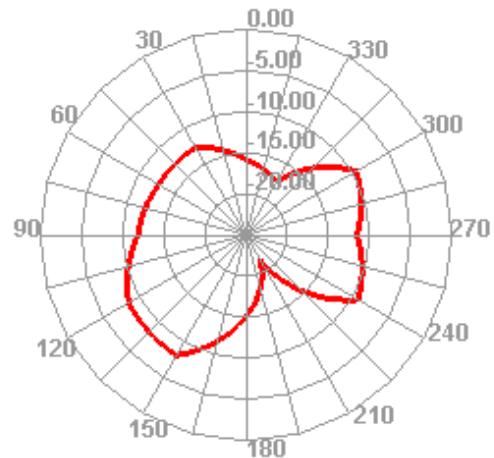
5450.000MHz



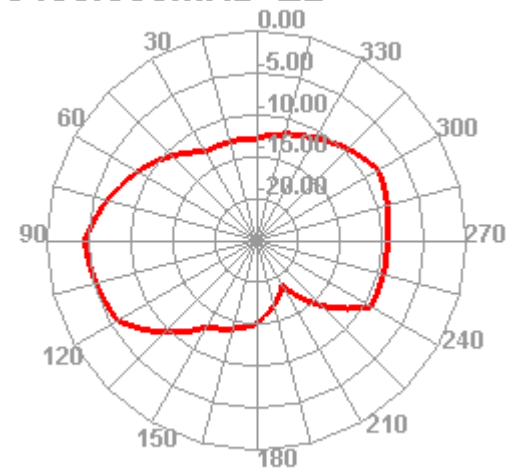
5450.000MHz H



5450.000MHz E1

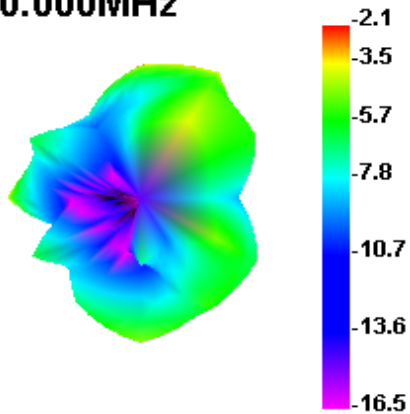


5450.000MHz E2

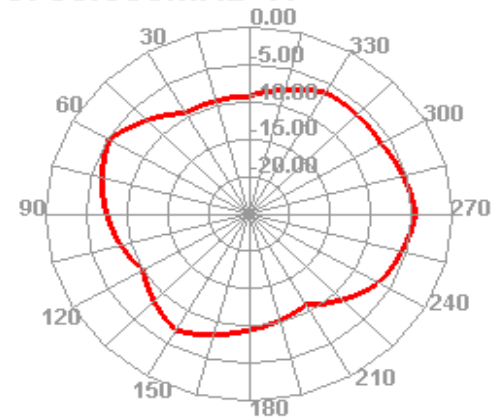


5. 8G Pattern

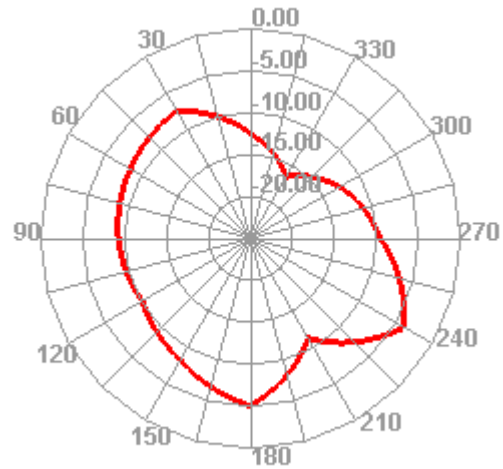
5750.000MHz



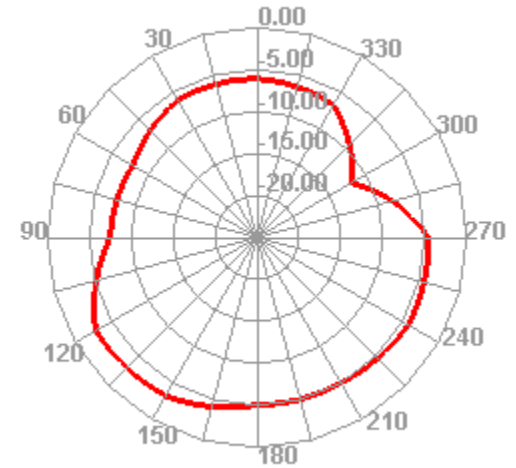
5750.000MHz H



5750.000MHz E1



5750.000MHz E2



5. product drawing

