



深圳市海凌科电子有限公司

SHEN ZHEN Hi-LinK ELECTRICAL CO, LTD

产 品 规 格 书

PRODUCT SPECIFICATION SHEET

客 户 名 称 : _____

产 品 名 称 : 2.4GHz 铜管天线 Antenna L=105mm

产 品 料 号 : Hi-A108-106

客 户 料 号 : HLK-TX-TG-10CM

送 样 日 期 : 2026-3-12

工程确认：

核准	工程	制作	签章
Kevin	David	lisa	

客户确认：

核准	研发	品质	签章
确认结果： ☐ 合格 ☐ 不合格 ☐ 其它			



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承认书项目表

Item	Description
1.....	承认书封面
2.....	承认书项目表
3.....	工程图面
4.....	电性测试报告



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RF Antenna Cable Assembly

Specification

1. Electrical Properties

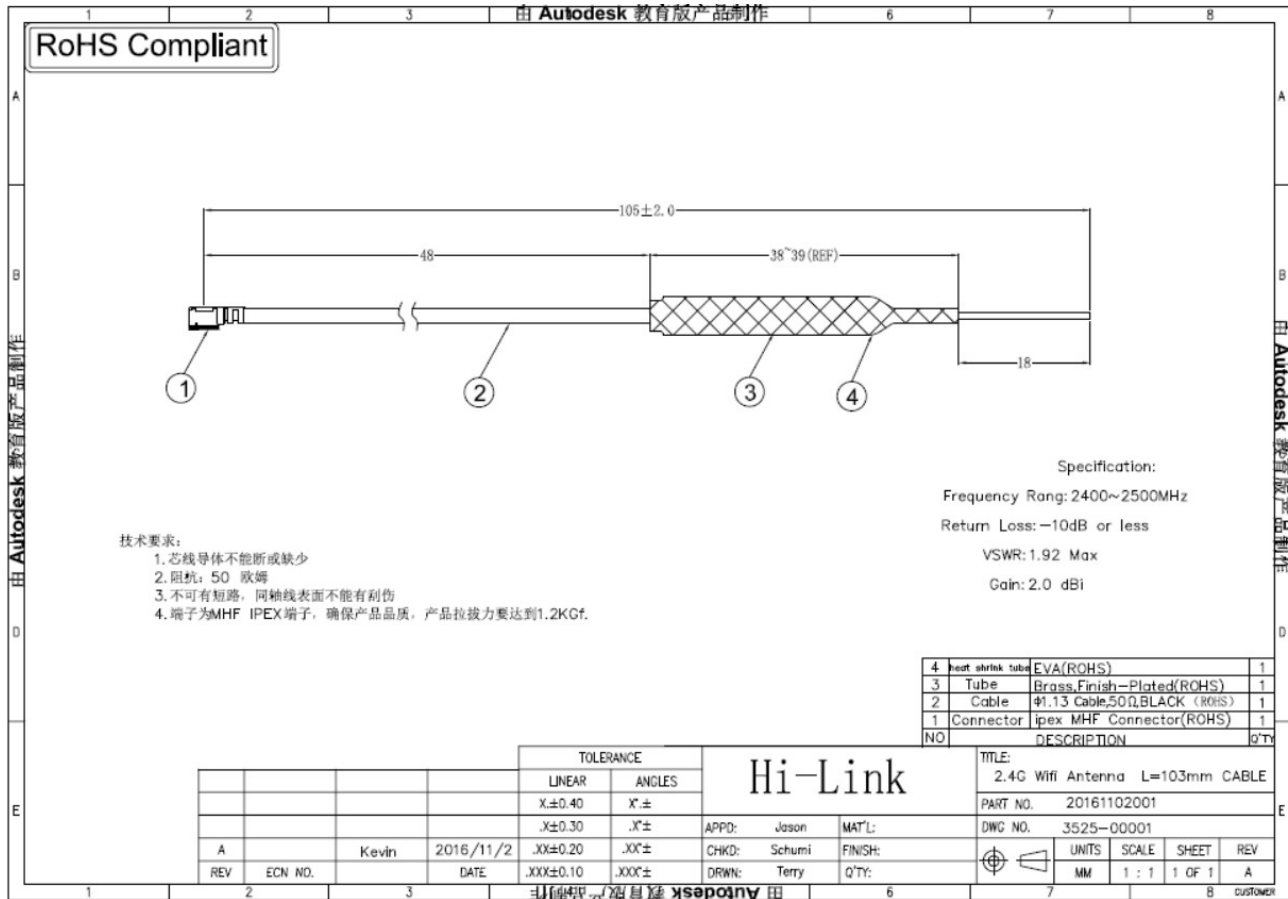
- 1.1 Frequency Range.....2.4GHz-2.5GHz
- 1.2 Impedance.....50 Ω Nominal
- 1.3 VSWR.....1.92:1MAX
- 1.4 Return Loss.....-10dB Max
- 1.5 Gain(peak).....2dBi
- 1.6 Cable loss.....0.3dBi Max
- 1.7 Polarization.....Linear Vertical
- 1.8 Admitted Power.....2W
- 1.9 Cable.....0. D. 1.13mm(Black)
- 1.10 Conn.....MHF
- 2. Physical Properties:
 - 2.1 Antenna Material.....Cu
 - 2.4 Operating Temp.....-20°C- +65°C
 - 2.5 Storage Temp.....-30°C- +75°C
 - 2.6 Color.....BLACK



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2D Drawing:



Product Photo:

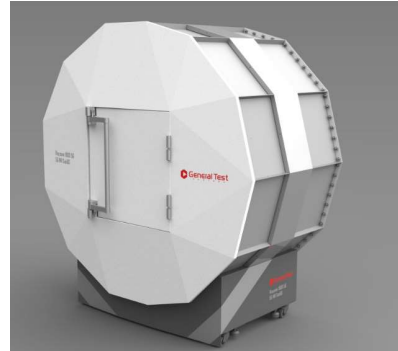
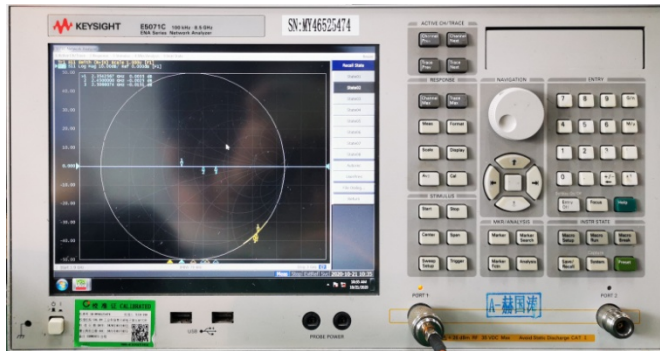




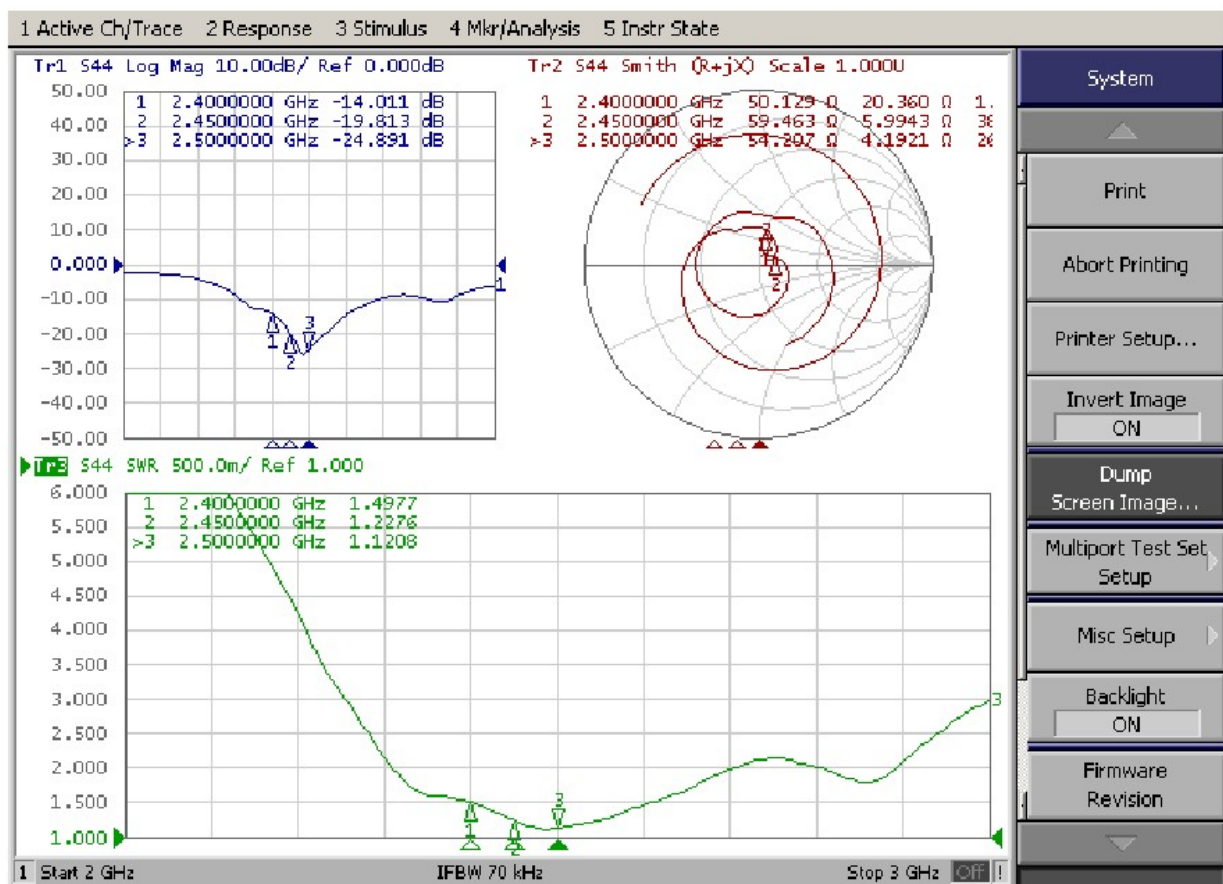
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RF Antenna 测试设备图示:



驻波比V.S.W.R:





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RF Antenna Performance Assembly SPEC:2.4~2.5GHz

以下测试数据来源于无源测试后数据:

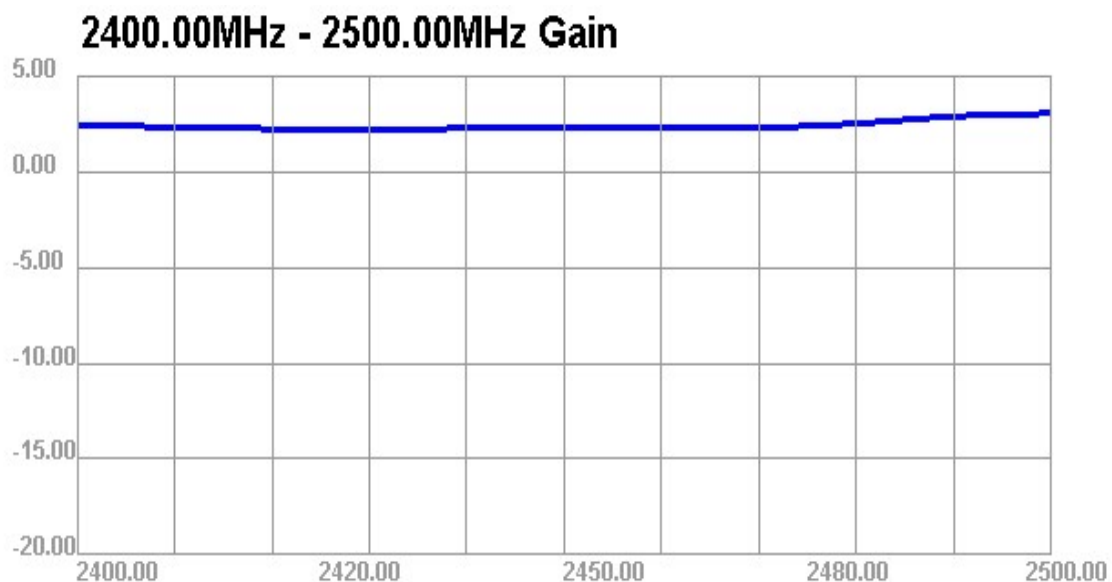
Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)
2400	74.23	-1.29	2.44	0.29	42.99	31.243	2.44	-18.28	3.73	60
2410	73.39	-1.34	2.33	0.18	42.242	31.152	2.33	-17.85	3.67	60
2420	74.01	-1.31	2.24	0.09	42.223	31.787	2.24	-17.11	3.55	60
2430	75.2	-1.24	2.17	0.02	42.944	32.258	2.17	-16.49	3.41	60
2440	78.28	-1.06	2.27	0.12	44.267	34.01	2.27	-16.47	3.34	45
2450	78.62	-1.04	2.36	0.21	44.187	34.434	2.36	-17.04	3.4	45
2460	74.96	-1.25	2.28	0.13	41.446	33.511	2.28	-18.69	3.54	45
2470	71.1	-1.48	2.26	0.11	39.214	31.891	2.26	-20.93	3.74	45
2480	71.03	-1.49	2.51	0.36	39.127	31.902	2.51	-19.88	4	60
2490	72.62	-1.39	2.9	0.75	40.609	32.007	2.9	-17.53	4.29	30
2500	71.37	-1.46	3.05	0.9	40.761	30.61	3.05	-14.96	4.52	30



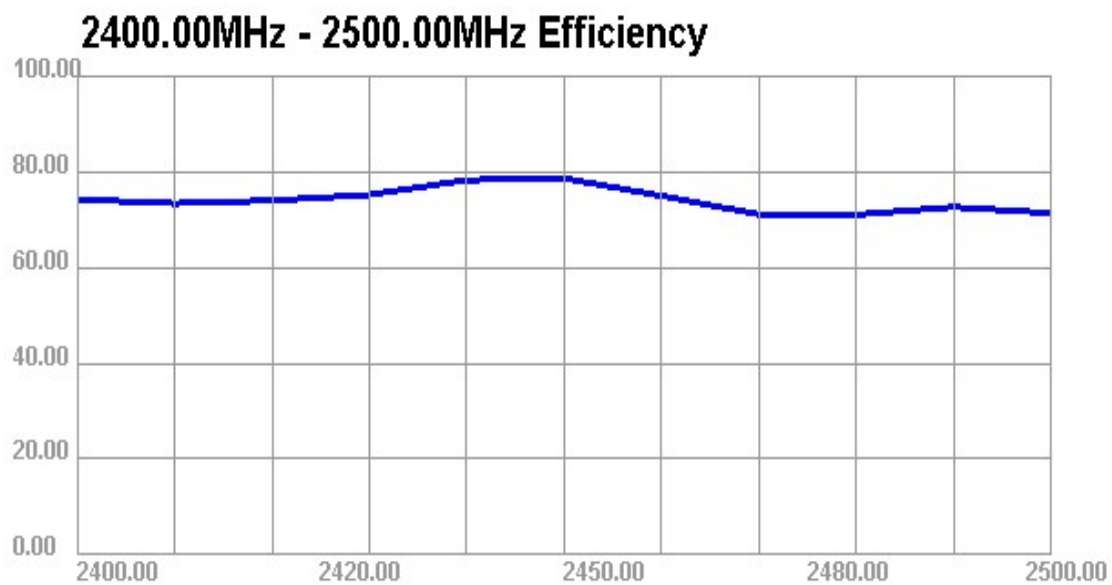
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一. 增益 (Gain)



二. 效率 (Efficiency)





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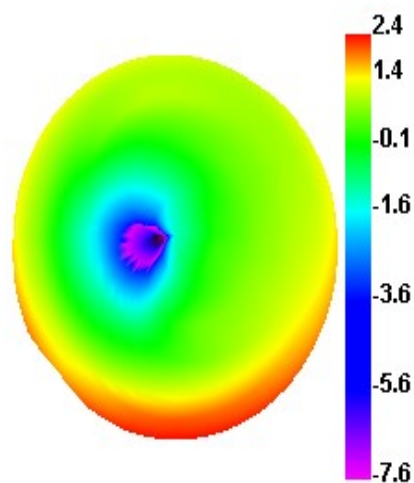
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Frequency:2.40GHz

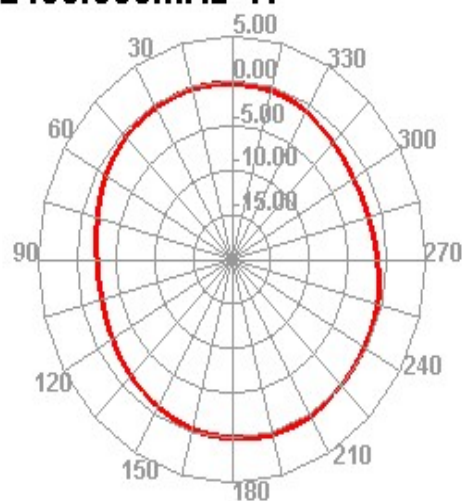
Peak Gain:2.4dBi

Efficiency:74.23%

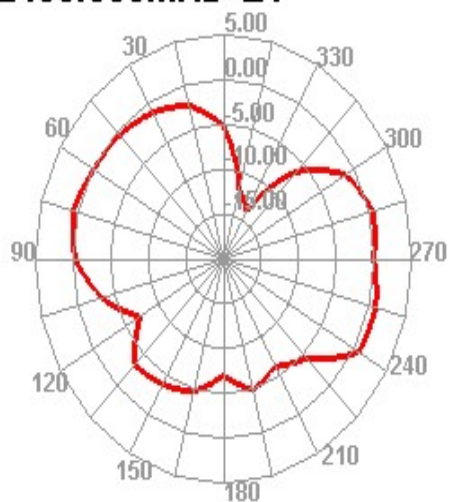
2400.000MHz



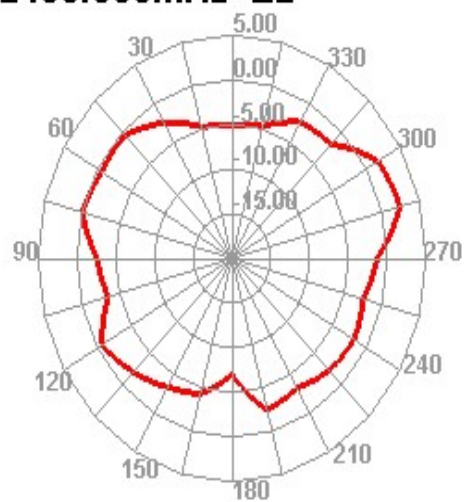
2400.000MHz H



2400.000MHz E1



2400.000MHz E2





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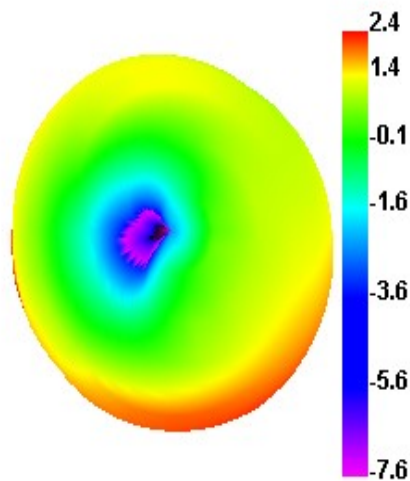
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Frequency:2.45GHz

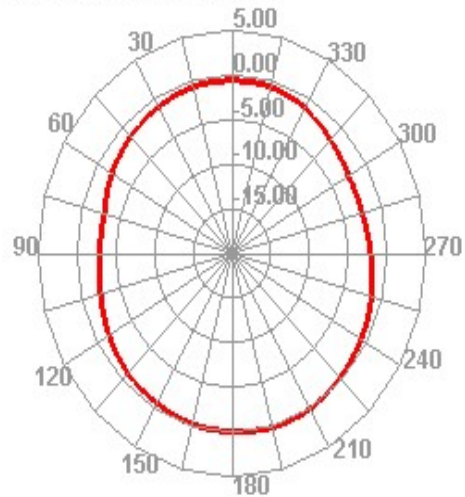
Peak Gain:2.4dBi

Efficiency:78.62%

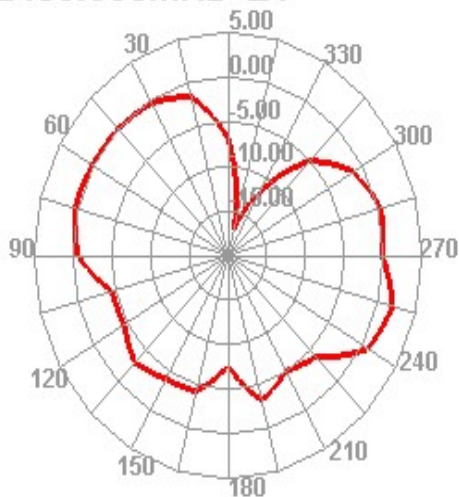
2450.000MHz



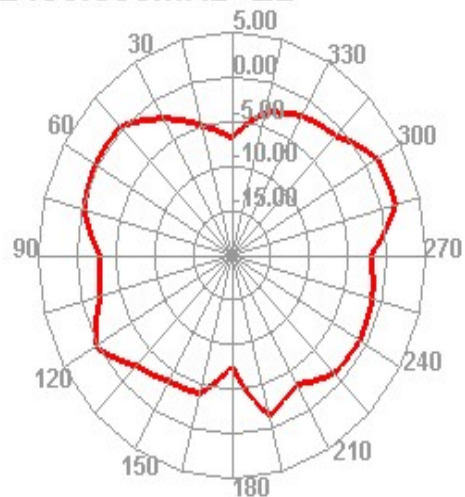
2450.000MHz H



2450.000MHz E1



2450.000MHz E2

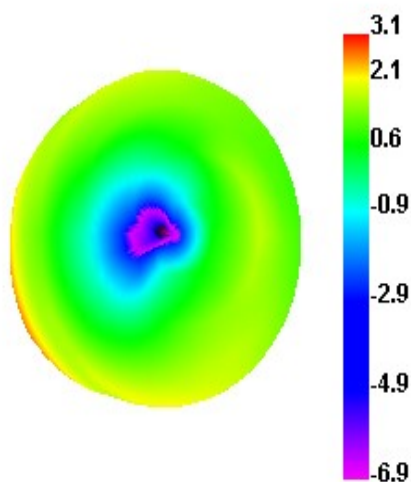


Frequency:2.45GHz

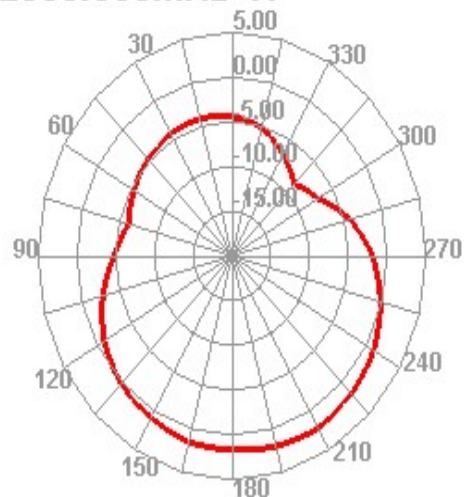
Peak Gain:3.1dBi

Efficiency:71.37%

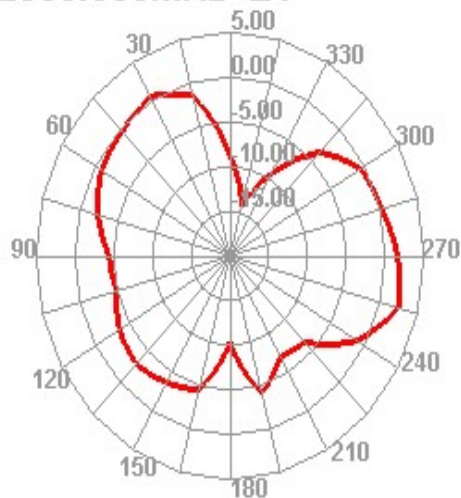
2500.000MHz



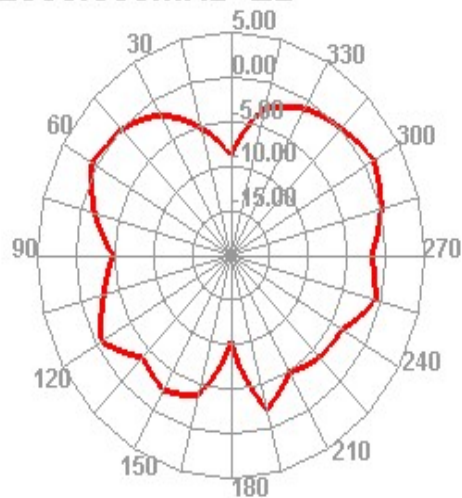
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



---报告内容结束---

---The end---