

产品规格书

SPECIFICATION

KTC产品名称: 机内Wifi天线 白色 260mm 2.4-2.5GHz/5.15-5.85GHz WF1
DESCRIPTION: WifiAntenna White 260mm 2.4-2.5GHz/5.15-5.85GHz WF1

KTC产品编码: 6150-026011-7T000001
MATERIAL CODE:6150-026011-7T000001

供应商产品名称: IPEX一代-1.13白-FPC-L260WIFI天线
SUPPLIER PRODUCT NAME:IPEX-1.13White-FPC-L260WIFI Antenna

供应商物料编码: 132500-1037-00260
SUPPLIER MATERIAL CODE:132500-1037-00260

送样日期: 2024.12.2
RECEIVED DATE:

深圳市兆赫通信技术有限公司 Shenzhen Zhaohe Communication Technology Co., Ltd		
拟制 PREPARED BY	审核 CHECKED BY	批准 APPROVE BY
林伟栋	蒋新平	何超

备注: 承认盖章后请回复一份承认书(或复印件)给我司, 其余由贵公司存档。
REMARK: Please send us one (or copy) of this approval with stamp after accepting, other copies filed by the customer.

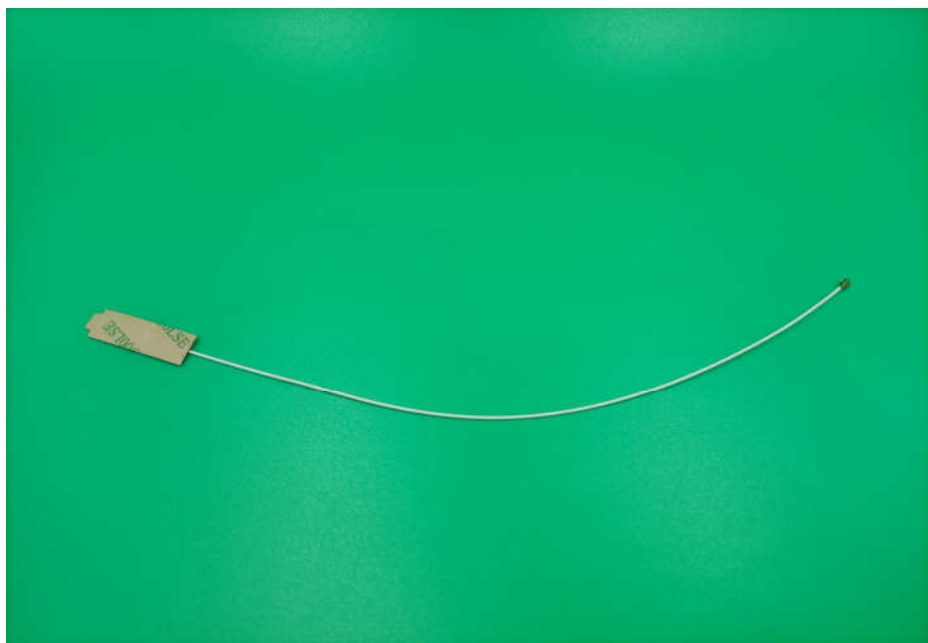
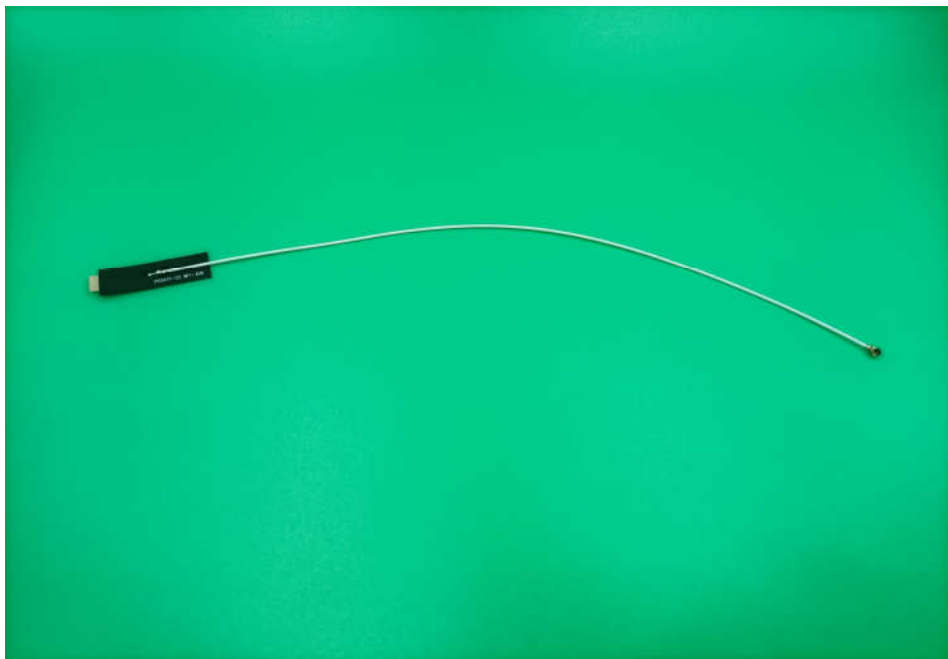
地址: 深圳市龙岗区龙西社区五联路25号6栋2楼
ADD: 2nd Floor, Building 6, No. 25, Wulian Road, Longxi Community, Longgang District, Shenzhen
邮编 Postal code:
电话 Tel: 075528715836

修订履历

REVISION HISTORY

[illegible]

四：产品实物图Product drawings



五：Antenna Specification/天线技术参数

Electrical Specification/电气特性		
Item/目录	Specification/规格	Comment/备注
Freq. Range/频段范围	2400-2500/5150-5850MHz	
Impedance/阻抗	50Ω	
Directional/辐射方向	Omni Directional	
Polarization/极化形式	Vertical	
Peak Gain/峰值增益	2.4G:2.76dBi/5G:2.48dBi	
Test Condition/测试条件	Passive test	
Power Handling/承受功率	5W	
Mechanical Specification/机械指标		
Antenna Type/天线类型	FPC	
Mating Connector Type/连接器类型	IPEX1代	
RF Cable Type/射频线型号	1.13	
Size/外形尺寸	12mm*36mm	
Mounting/固定类型	Adhesive tape	
Weight/重量	1.0g	±0.3
Pull Test/拉拔力	1kg MIN	
Salt Spray/盐雾测试	48H	
Environmental Specification/环境指标		
Operating temp/工作温度	-20℃~+80℃	
Storage temp/存储温度	-20℃~+80℃	

六.工程图 ENGINEERING DRAWING

Rohs Compliant

版本	状态	日期	说明	ECN NO.	NAME
REV	STATUS	DATE	DESCRIPTION		
A1	式/产	2024.11.23	新订图通		Lind

要求:

1. 线材焊接牢固，外被无损伤;
2. 成品须100%全检OK;
3. 成品须100%网分对比波形测试OK;
4. 采用环保制程，成品符合环保要求;
5. 未注明尺寸公差处按IT12级执行。

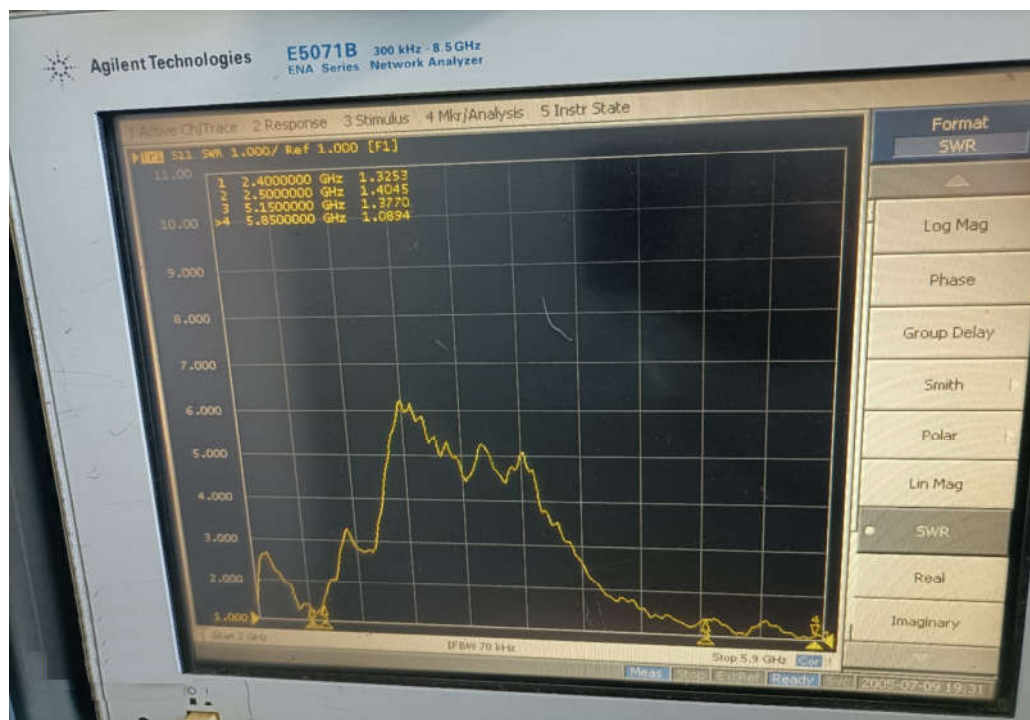
工作频段(Frequency Range)	2400-2500MHz
增益(Gain)	2dBi
电压驻波比(VSWR)	对比波形
极化方式(Polarization)	Linear
特性阻抗(Impedance)	50Ω

①	1303-1019-00035	FFC-18/25单面电镀铜	单面黑色油墨
②	0713-1302-02260	1.13白色-54#-低损线-FFC L=260MM	
③	0500-2001-00005	00-2R-1.13线端一代	磷青铜-镀金

公差	GENERAL TOLERANCE
2000-5000 ± 0.00	
5000-10000 ± 0.00	
10000-20000 ± 0.00	
20000-50000 ± 0.00	
50000-100000 ± 0.00	
100000-200000 ± 0.00	
200000-500000 ± 0.00	
500000-1000000 ± 0.00	
1000000-2000000 ± 0.00	
2000000-5000000 ± 0.00	
5000000-10000000 ± 0.00	
10000000-20000000 ± 0.00	
20000000-50000000 ± 0.00	
50000000-100000000 ± 0.00	
100000000-200000000 ± 0.00	
200000000-500000000 ± 0.00	
500000000-1000000000 ± 0.00	
1000000000-2000000000 ± 0.00	
2000000000-5000000000 ± 0.00	
5000000000-10000000000 ± 0.00	
10000000000-20000000000 ± 0.00	
20000000000-50000000000 ± 0.00	
50000000000-100000000000 ± 0.00	
100000000000-200000000000 ± 0.00	
200000000000-500000000000 ± 0.00	
500000000000-1000000000000 ± 0.00	
1000000000000-2000000000000 ± 0.00	
2000000000000-5000000000000 ± 0.00	
5000000000000-10000000000000 ± 0.00	
10000000000000-20000000000000 ± 0.00	
20000000000000-50000000000000 ± 0.00	
50000000000000-100000000000000 ± 0.00	
100000000000000-200000000000000 ± 0.00	
200000000000000-500000000000000 ± 0.00	
500000000000000-1000000000000000 ± 0.00	
1000000000000000-2000000000000000 ± 0.00	
2000000000000000-5000000000000000 ± 0.00	
5000000000000000-10000000000000000 ± 0.00	
10000000000000000-20000000000000000 ± 0.00	
20000000000000000-50000000000000000 ± 0.00	
50000000000000000-100000000000000000 ± 0.00	
100000000000000000-200000000000000000 ± 0.00	
200000000000000000-500000000000000000 ± 0.00	
500000000000000000-1000000000000000000 ± 0.00	
1000000000000000000-2000000000000000000 ± 0.00	
2000000000000000000-5000000000000000000 ± 0.00	
5000000000000000000-10000000000000000000 ± 0.00	
10000000000000000000-20000000000000000000 ± 0.00	
20000000000000000000-50000000000000000000 ± 0.00	
50000000000000000000-100000000000000000000 ± 0.00	
100000000000000000000-200000000000000000000 ± 0.00	
200000000000000000000-500000000000000000000 ± 0.00	
500000000000000000000-1000000000000000000000 ± 0.00	
1000000000000000000000-2000000000000000000000 ± 0.00	
2000000000000000000000-5000000000000000000000 ± 0.00	
5000000000000000000000-10000000000000000000000 ± 0.00	
10000000000000000000000-20000000000000000000000 ± 0.00	
20000000000000000000000-50000000000000000000000 ± 0.00	
50000000000000000000000-100000000000000000000000 ± 0.00	
100000000000000000000000-200000000000000000000000 ± 0.00	
200000000000000000000000-500000000000000000000000 ± 0.0	

七.测试图test data

7.1

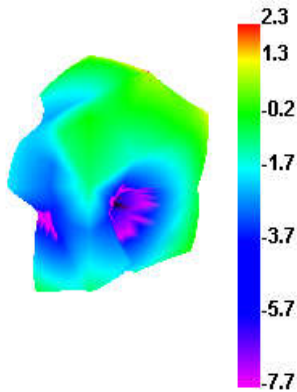


7.2 The test result of total efficiency and total gain/天线效率及增益测试结果

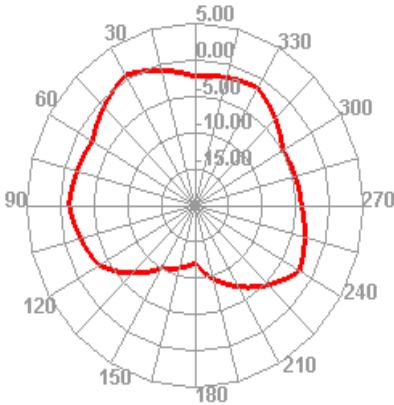
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	44.59	-3.51	2.33
2410	43.48	-3.62	2.03
2420	43.55	-3.61	2.34
2430	43.24	-3.64	2.35
2440	43.58	-3.61	2.1
2450	40.95	-3.88	1.79
2460	41.27	-3.84	1.95
2470	41.8	-3.79	1.9
2480	44.73	-3.49	2.31
2490	48.97	-3.1	2.76
2500	48.92	-3.1	2.72

6.3 The antenna radiation pattern/天线辐射方向图

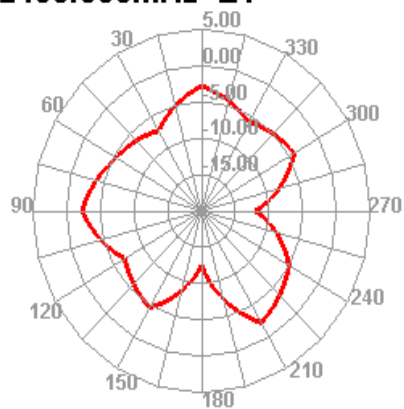
2400.000MHz



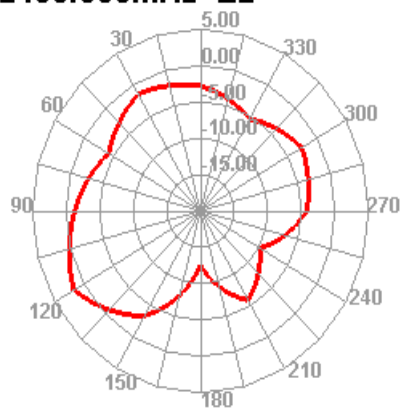
2400.000MHz H



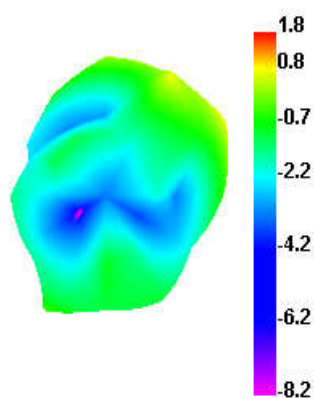
2400.000MHz E1



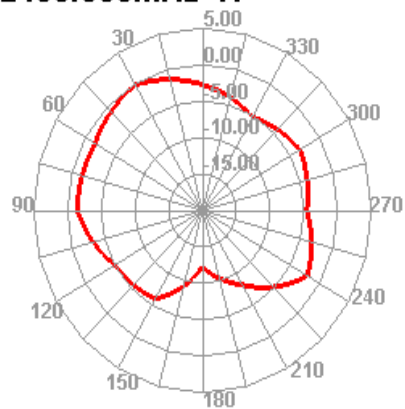
2400.000MHz E2



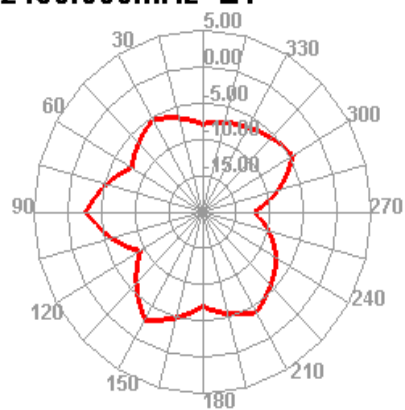
2450.000MHz



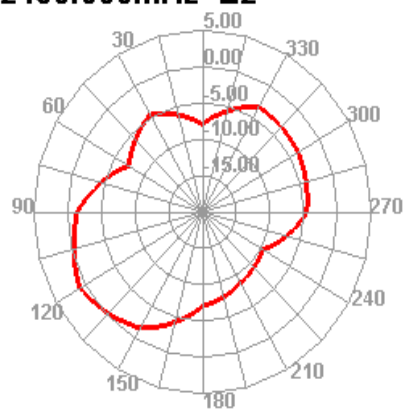
2450.000MHz H



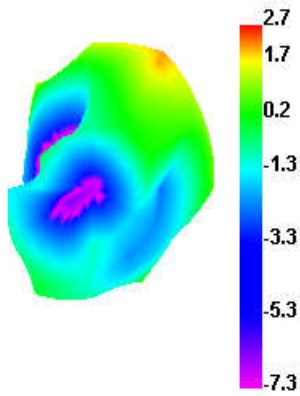
2450.000MHz E1



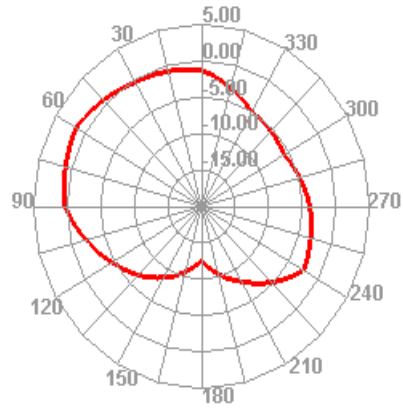
2450.000MHz E2



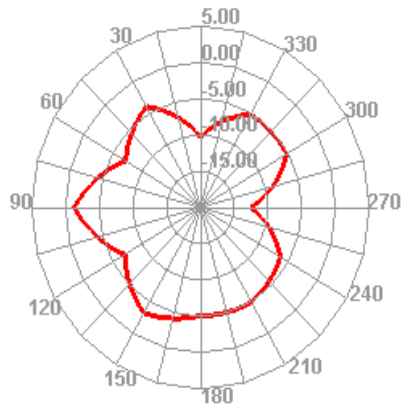
2500.000MHz



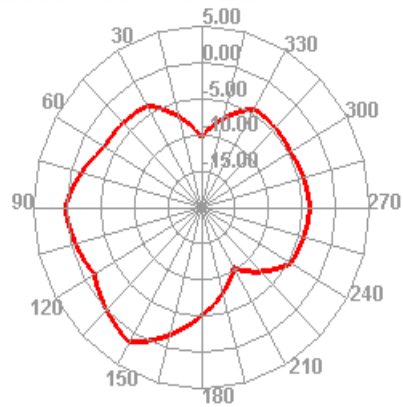
2500.000MHz H



2500.000MHz E1



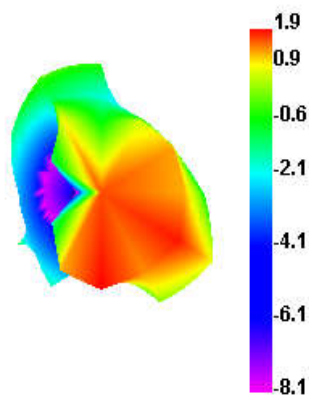
2500.000MHz E2



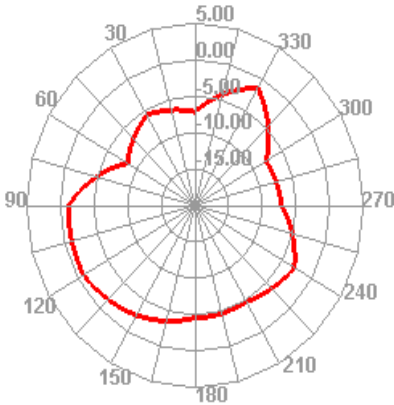
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	43.55	-3.61	1.89
5175	42.37	-3.73	1.73
5200	44	-3.57	1.82
5225	42.75	-3.69	1.98
5250	42.23	-3.74	1.9
5275	42.27	-3.74	1.79
5300	41.71	-3.8	1.8
5325	41.9	-3.78	2.04
5350	42.46	-3.72	2.21
5375	43.55	-3.61	2.48
5400	45.13	-3.46	2.4
5425	41.62	-3.81	1.7
5450	42.5	-3.72	1.56
5475	43.23	-3.64	1.72
5500	43.96	-3.57	1.78
5525	45.77	-3.39	1.71
5550	46.88	-3.29	1.48
5575	45.73	-3.4	1.21
5600	43.27	-3.64	1.12
5625	43.96	-3.57	1.39
5650	42.54	-3.71	1.15
5675	41.12	-3.86	0.68

5700	40.57	-3.92	0.62
5725	43.9	-3.58	1.25
5750	42.35	-3.73	1.36
5775	43.22	-3.64	1.67
5800	42.88	-3.68	1.67
5825	43.45	-3.62	1.53
5850	44.33	-3.53	1.5

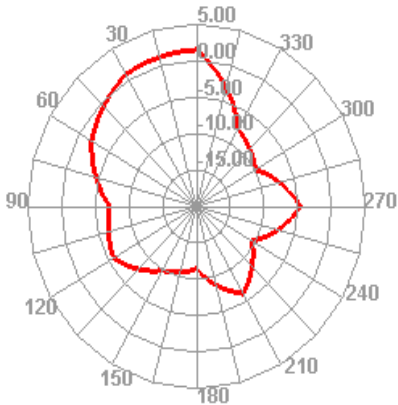
5150.000MHz



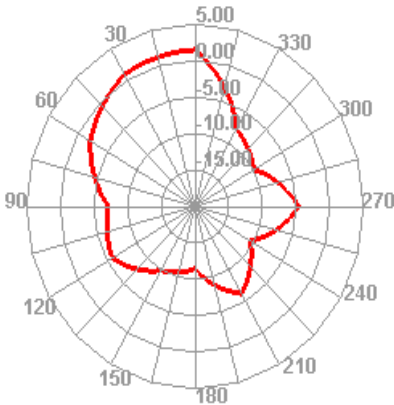
5150.000MHz H



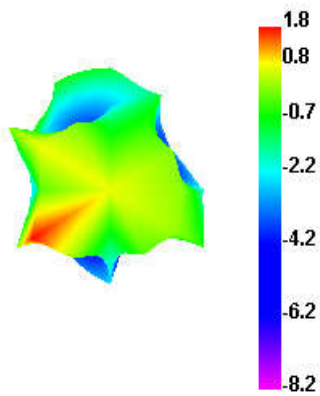
5150.000MHz E1



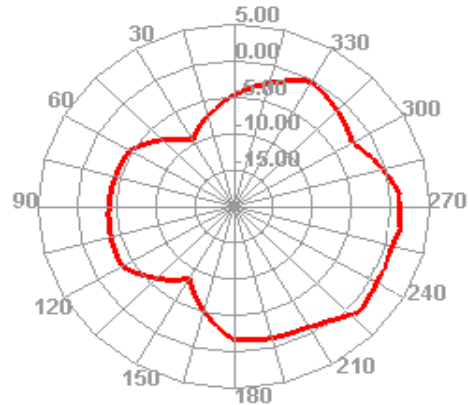
5150.000MHz E1



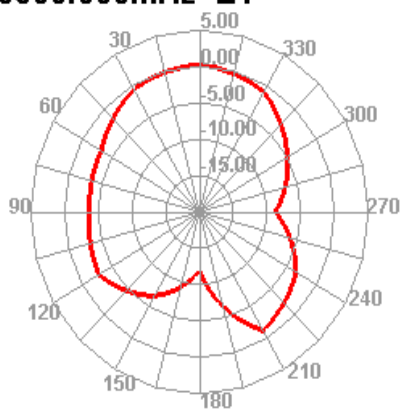
5500.000MHz



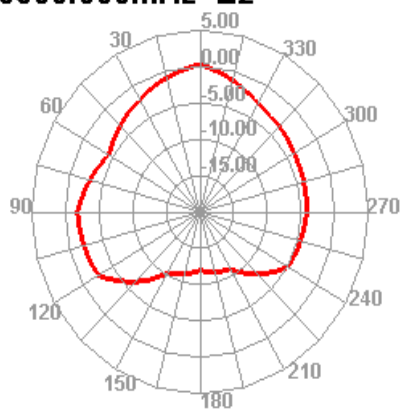
5500.000MHz H



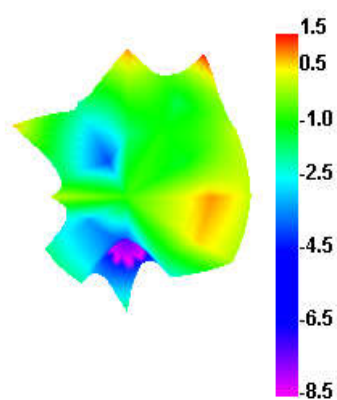
5500.000MHz E1



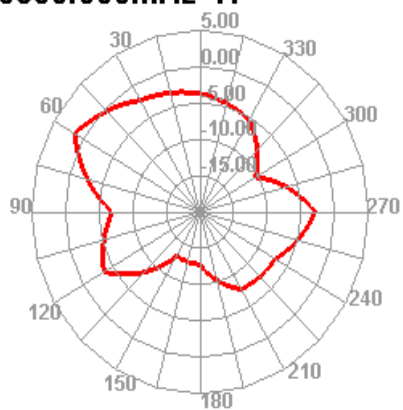
5500.000MHz E2



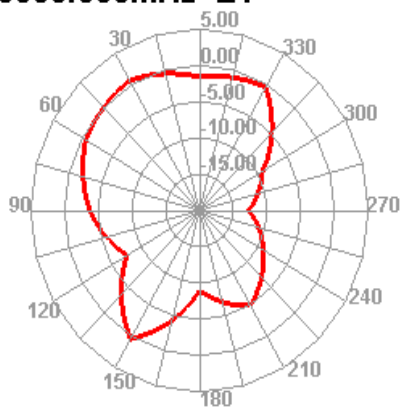
5850.000MHz



5850.000MHz H



5850.000MHz E1



5850.000MHz E2

