



深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

FAX: +86 755 28694967

承认书 APPROVAL

版本: A1

客 户
CUSTOMER:

品 名 规 格
DESCRIPTION:

2.4G-FPC-Antenna-80mm

料 号
PART NO.:

LZJ-002

客 户 料 号
CUS PART NO.:

日 期
D A T E:

2026-1-4

呈样签章:

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

客户承认签章 :

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

※ 客户确认样品附意栏:

Add: 3rd-4th Floor, No. 102, Aoxi Road, Aobei Village, Henggang Town, Longgang District, Shenzhen

工厂地址: 深圳市龙岗区横岗镇坳背一村坳西路 102 号 3-4 楼



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电器技术参数

电 性 能 指 标		Electrical Specifications	
频率范围	2400-5800MHZ	Frequency Range	2400-5800MHZ
电压驻波比	≤ 2.0	VSWR	≤ 2.0
增益	2DBI	GAIN	2DBI
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 指 标		Mechanical Specifications	
线材颜色	灰色	Cable Color	GRAY
接口形式	IPEX	Input connector	ipex
工作温度	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C	Working Temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C
工作湿度	20~80%	Working Humidity	20~80%

产品图片 (Product picture) :



工厂地址: 深圳市龙岗区横岗镇坳背一村坳西路 102 号 3-4 楼



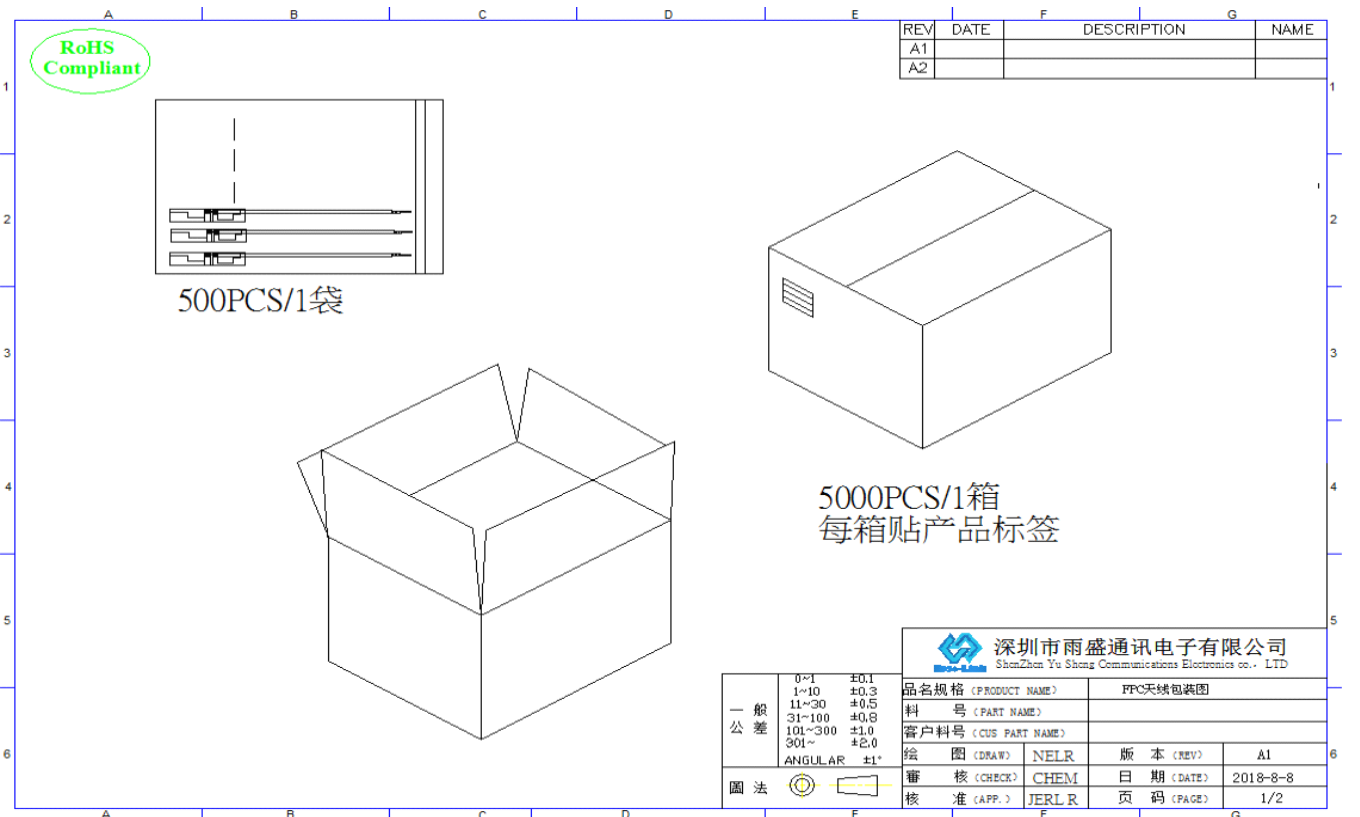
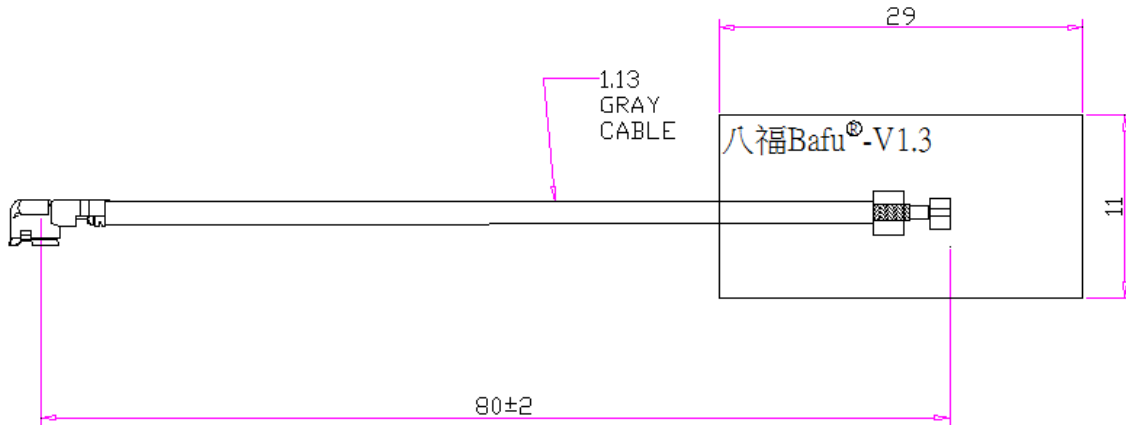
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规格图纸 (Product Specification):



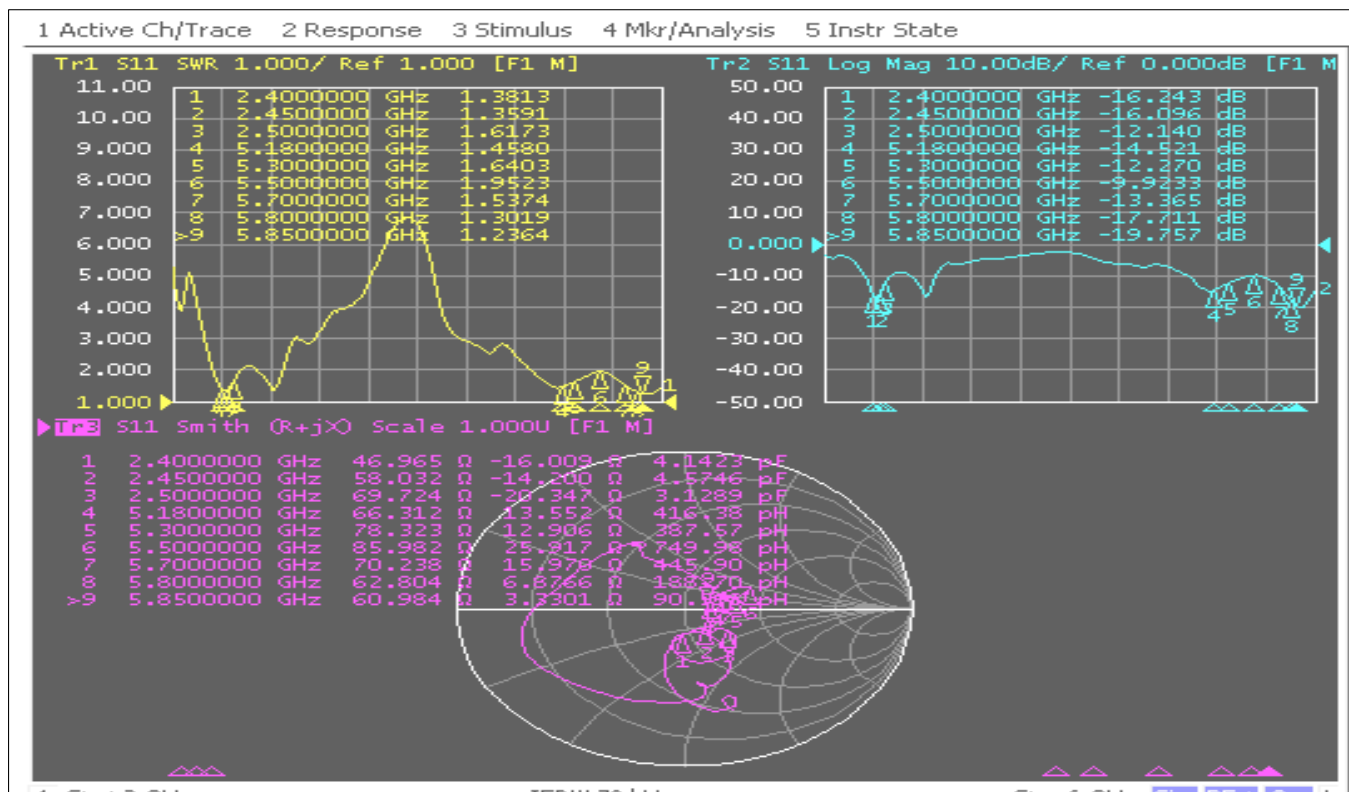
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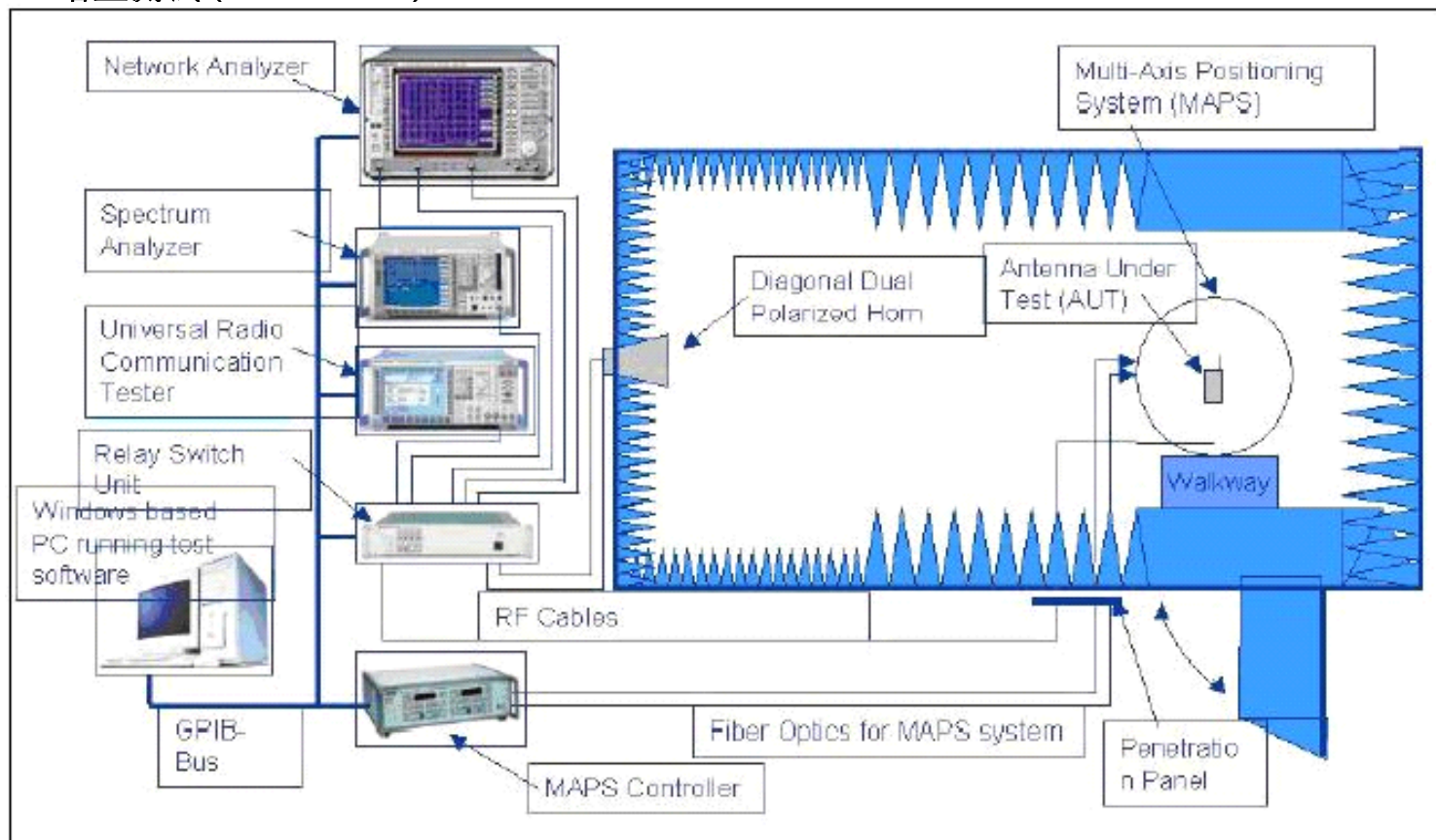
环境性能测试 (Environmental performance test) :

ITEM	TEST CONDITION	TEST RESULT
The storage environment	In the absence of the specified circumstances test temperature, humidity, air pressure is as follows: 1 temperature is -30 °C ~ +80 °C 2 relative humidity for 45%-85% The 3 pressure is 86kpa-106kpa	Electrical and mechanical properties of normal
Thermocycling ;	5 cycles between 70 °C and 40 °C, then under normal conditions 1-2H, appearance quality inspection.	Dimensions should meet the requirements and shall satisfy In the mechanical, electrical properties
Resistance to damp heat Test	Relative humidity is $95 \pm 3\%$, test temperature: 40 °C. Continue after 2H, Test within the product after removing the 5min determination of the electrical properties, in the normal sample Under 1-2H, the appearance of quality inspection	Dimensions should meet the requirements and shall satisfy In the mechanical, electrical properties
vibration test ;	Displacement amplitude of vibration frequency range: 10-55HZ, 0.35MM, the amplitude of acceleration: 50.0M/S, sweep cycle times: 30 times	Electrical and mechanical properties of normal
fall-down test ;	1M high altitude in accordance with the perpendicular axis free fall 3	Electrical and mechanical properties of normal

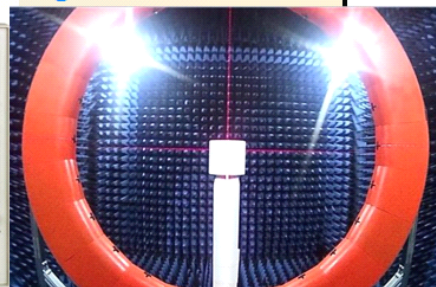
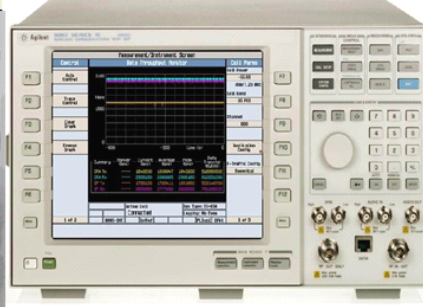
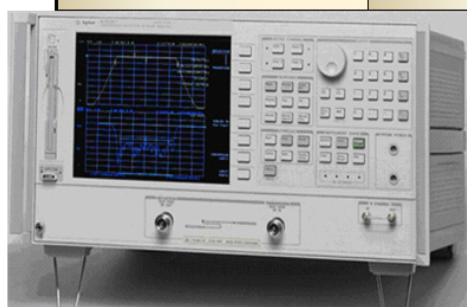
网分仪器测试图 (Agilent network analyzer test chart):



增益测试 (Gain-Tset):



	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪: Agilent E5071B
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 E5515C LTE /WIFI/BT测试仪: R&S CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 8x4x4 m (3D) 2. 网络分析仪: Agilent E5071B



增益测试:

Passive Test For 2.4-5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2200	33.96	-4.69	-0.38	-2.53	20.318	13.645	-0.38	-20.54	44.82	43.93
2250	41.03	-3.87	0.11	-2.04	24.423	16.604	0.11	-18.71	45.23	44.53
2300	37.92	-4.21	0.1	-2.05	23.408	14.512	0.1	-21.08	45.78	45.31
2350	37.41	-4.27	-0.07	-2.22	22.677	14.729	-0.07	-19.21	46.38	45.92
2400	34.11	-4.67	0.79	-1.36	22.873	11.234	0.79	-20.1	46.87	46.67
2450	34.91	-4.57	0.82	-1.33	26.498	8.41	0.82	-20.44	47.72	47.63
2500	37.35	-4.28	1.35	-0.8	30.749	6.6	1.35	-16.56	47.75	47.52
2550	33.02	-4.81	0.64	-1.51	28.059	4.962	0.64	-19.86	47.22	46.83
2600	43.64	-3.6	1.28	-0.87	36.884	6.755	1.28	-17.04	47.84	47.56
2650	46.2	-3.35	1.43	-0.72	38.444	7.758	1.43	-16.52	48.18	48.08
2700	43.25	-3.64	0.9	-1.25	35.536	7.714	0.9	-16	48.52	48.56
2750	43.27	-3.64	0.74	-1.41	34.558	8.715	0.74	-14.41	49.05	49.21
2800	49.02	-3.1	1.01	-1.14	38.365	10.654	1.01	-13.09	49.69	49.92
2850	49.05	-3.09	0.49	-1.66	37.492	11.555	0.49	-12.68	49.92	49.65
2900	43.72	-3.59	0.19	-1.96	32.97	10.752	0.19	-12.45	50.13	49.97
2950	37.71	-4.24	-0.47	-2.62	28.157	9.556	-0.47	-11.61	50.16	49.99
3000	32.66	-4.86	-1.47	-3.62	24.182	8.477	-1.47	-12.74	50.19	49.92
3050	31.84	-4.97	-1.62	-3.77	23.601	8.242	-1.62	-12.36	50.03	50.16
3100	36	-4.44	-0.73	-2.88	26.874	9.126	-0.73	-12.35	51.1	51.19
3150	32.91	-4.83	-1.14	-3.29	24.581	8.327	-1.14	-12.05	51.44	51.49
3200	30.02	-5.23	-1.33	-3.48	21.964	8.061	-1.33	-13.12	51.56	51.69
3250	28.63	-5.43	-1.72	-3.87	20.191	8.438	-1.72	-15.02	51.76	51.61
3300	28.36	-5.47	-1.1	-3.25	19.588	8.768	-1.1	-13.03	51.51	51.47



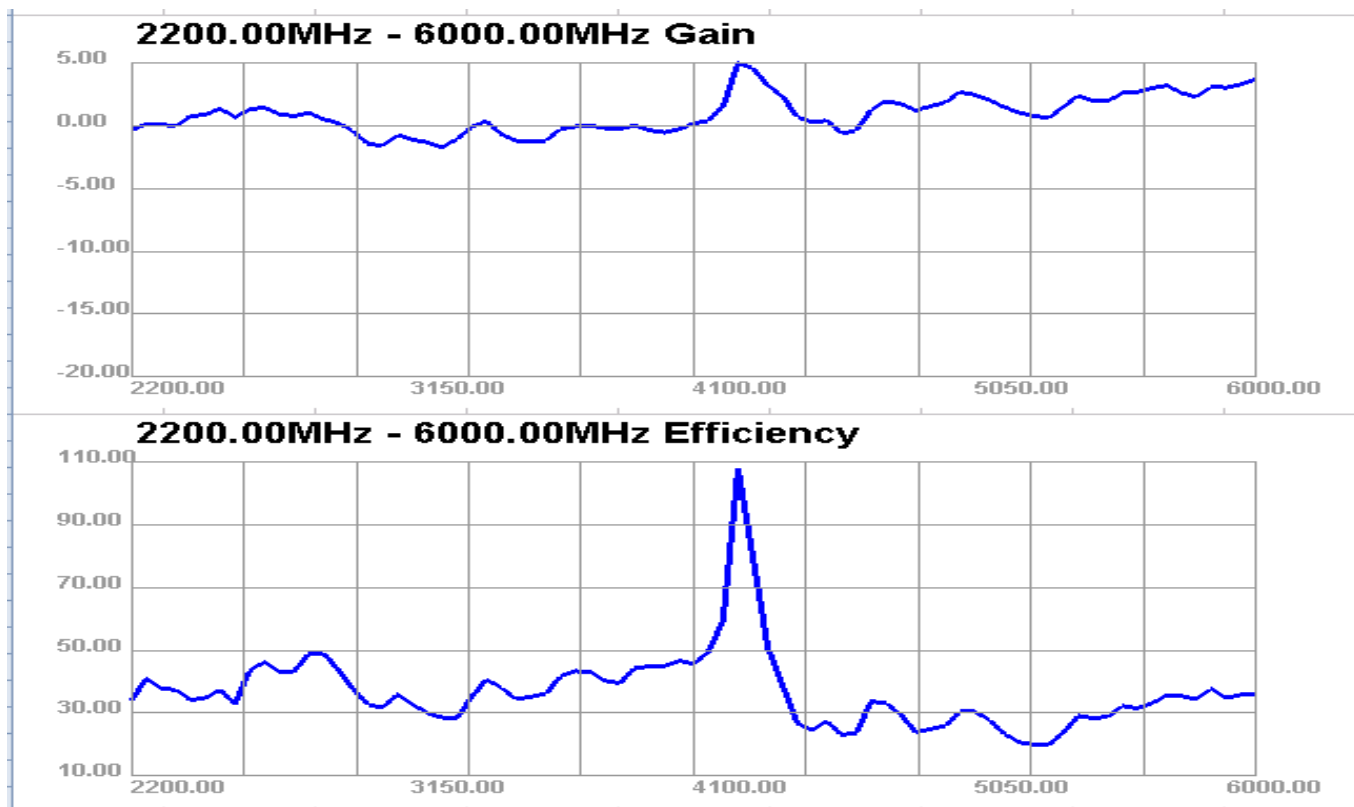
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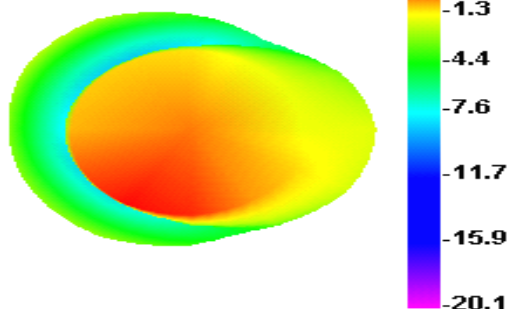
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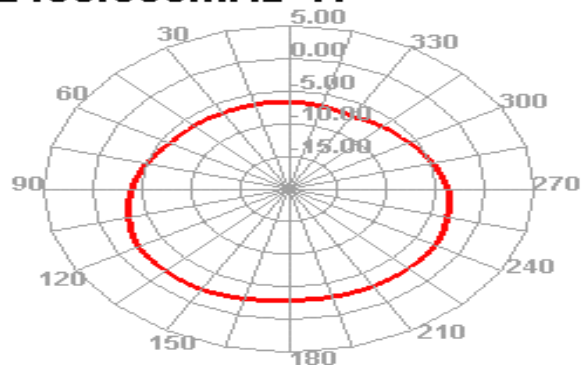
5150	23.35	-6.32	1.45	-0.7	20.361	2.99	1.45	-21.73	54.78	54.67
5200	20.78	-6.82	1.04	-1.11	17.993	2.784	1.04	-27.68	54.75	54.81
5250	20.06	-6.98	0.76	-1.39	17.028	3.033	0.76	-22.09	54.73	54.93
5300	19.77	-7.04	0.6	-1.55	16.152	3.62	0.6	-21.03	54.5	54.73
5350	24.01	-6.2	1.52	-0.63	19.002	5.004	1.52	-20.62	55.24	55.51
5400	29.14	-5.36	2.37	0.22	22.214	6.925	2.37	-21.61	55.55	56.05
5450	28.43	-5.46	1.95	-0.2	20.873	7.555	1.95	-21.81	55.31	56.11
5500	28.9	-5.39	1.94	-0.21	21.086	7.816	1.94	-22.92	55.63	56.65
5550	32.31	-4.91	2.58	0.43	23.886	8.424	2.58	-23.63	56.59	57.66
5600	31.5	-5.02	2.67	0.52	23.84	7.664	2.67	-26.5	57.26	57.88
5650	33.21	-4.79	2.99	0.84	25.469	7.745	2.99	-29.71	57.84	58.26
5700	35.75	-4.47	3.18	1.03	27.078	8.668	3.18	-24.89	57.82	58.3
5750	35.35	-4.52	2.57	0.42	26.185	9.169	2.57	-19.94	57.87	58.19
5800	34.45	-4.63	2.26	0.11	24.76	9.69	2.26	-17.96	57.78	58.22
5850	37.81	-4.22	3.08	0.93	26.612	11.203	3.08	-16.65	58.5	59.08
5900	34.87	-4.58	3.02	0.87	24.073	10.8	3.02	-19.04	58.59	59.29
5950	35.81	-4.46	3.26	1.11	23.582	12.232	3.26	-22.58	59.52	60.37
6000	36.14	-4.42	3.72	1.57	23.013	13.128	3.72	-16.06	61.25	62.09



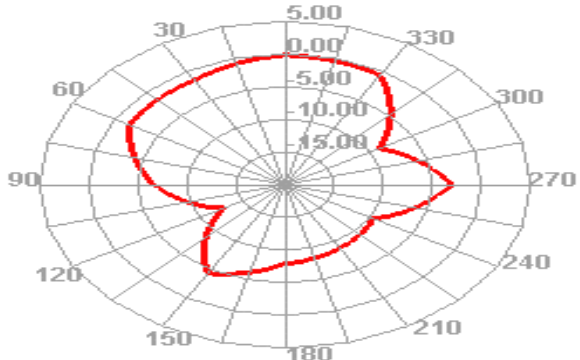
2400.000MHz



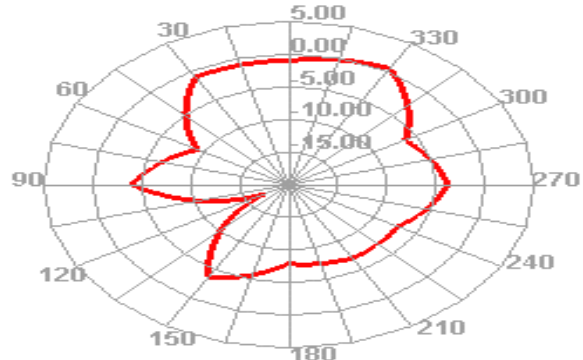
2400.000MHz H



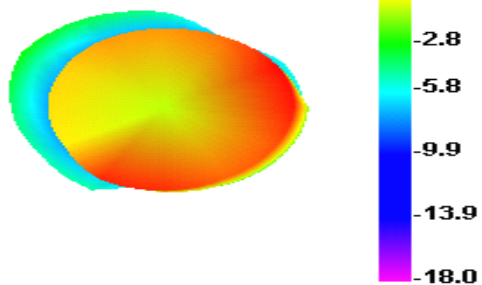
2400.000MHz E1



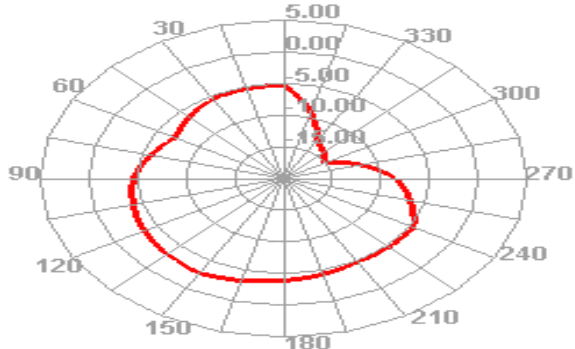
2400.000MHz E2



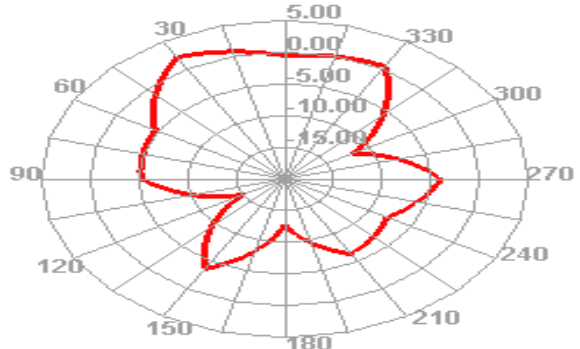
5800.000MHz



5800.000MHz H



5800.000MHz E1



5800.000MHz E2

