产品规格书
Product Specification

客户名称 Customer Name:

项目名称 Project Name： 2.4G 2DB 胶棒天线

规格描述 Product Spec： JHS-2458-RPSMA-108

天线类型 Antenna Type： Dipole Antenna

供方料号 Supplier P/N：

版　　本 REV： V1.0

日　　期 Date： 2022/04/14

制 作 drawing	审 核 check	批 准 approved

客户承认 Customer Approve

审 核 check	批 准 approved	承 认 approval

Manufacturer: TEAC Corporation
Address: 1-47 Ochiai, Tama-shi, Tokyo 206-8530 Japan

测试设备及原理 Testing Equipment and Principle

1. 测试设备：

网络分析仪 Network Analyzers ：

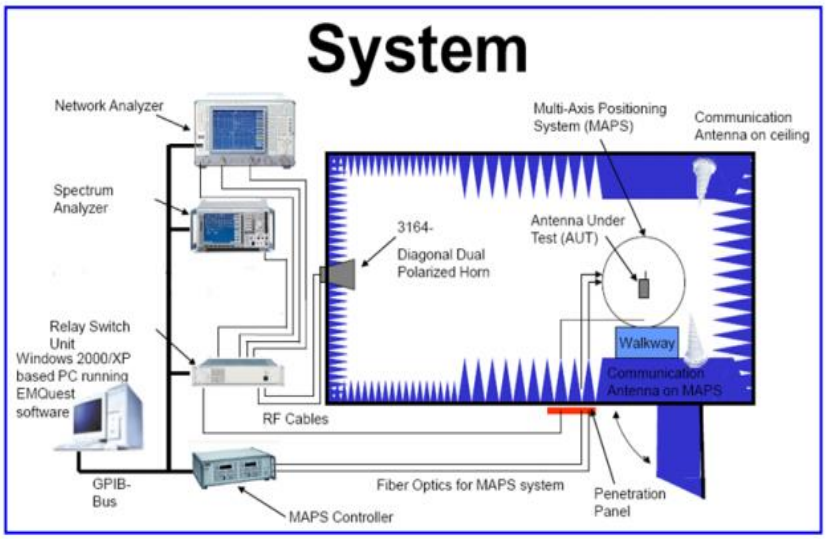
Agilent 8753D 5071B

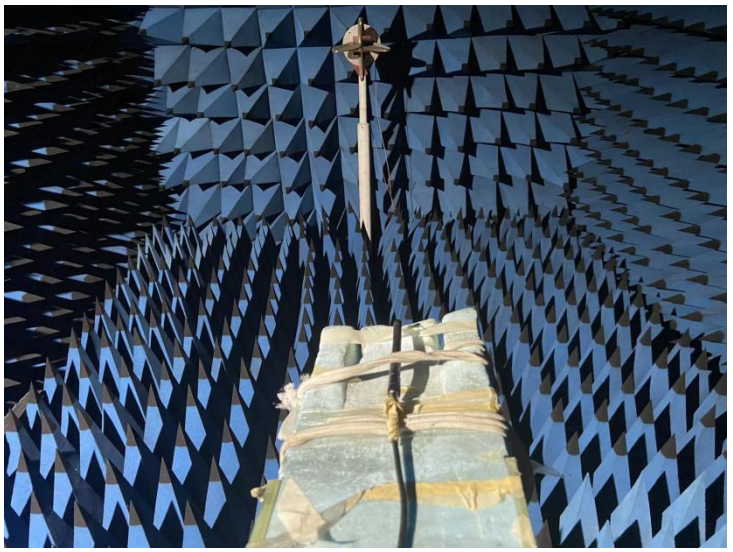
综合测试仪 Communications Test Set:

Agilent E5515C/CMW500

3D 暗室测试系统 3D Chamber Test System：

2. 测试原理：



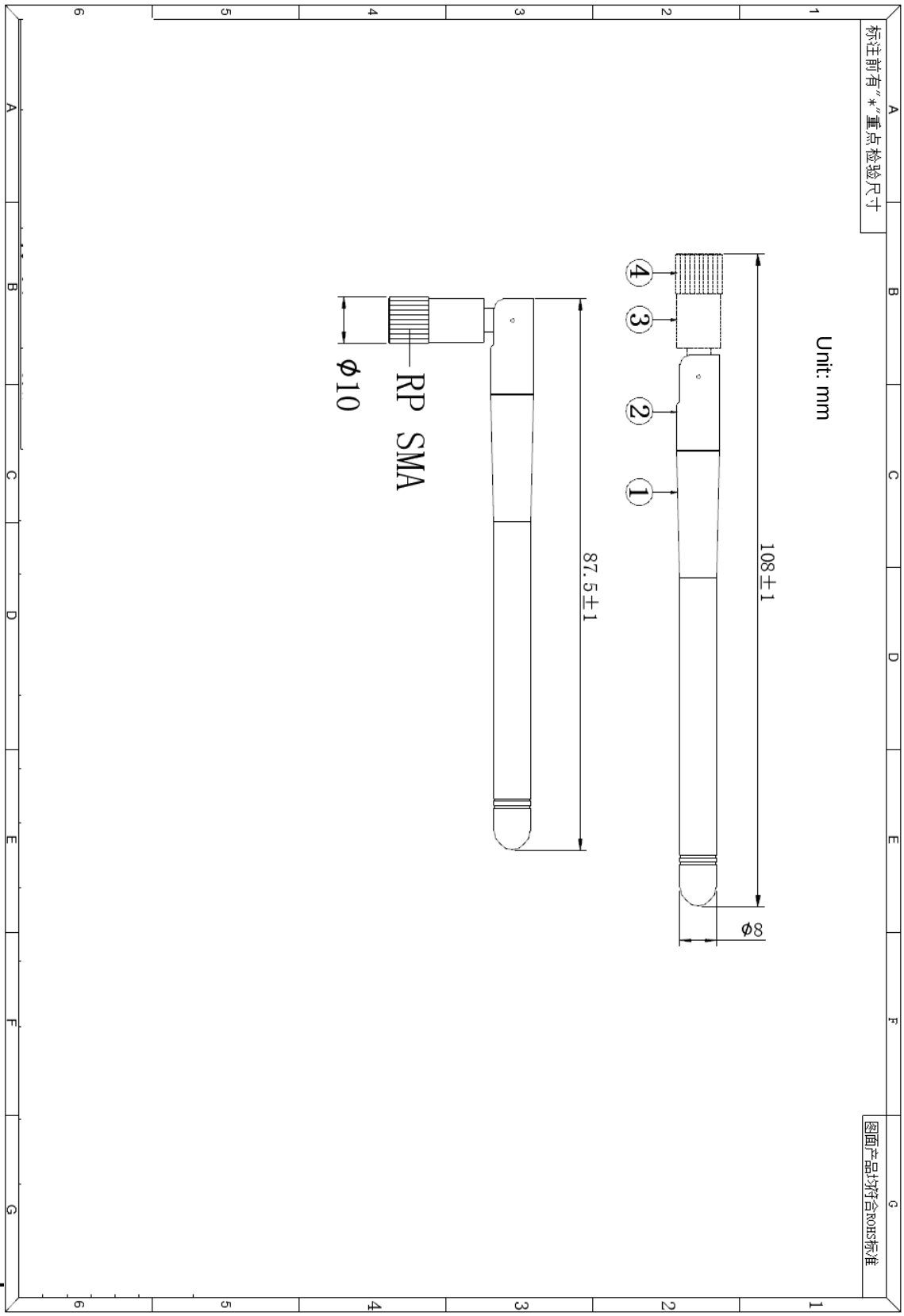


一、电性能以及机械性能

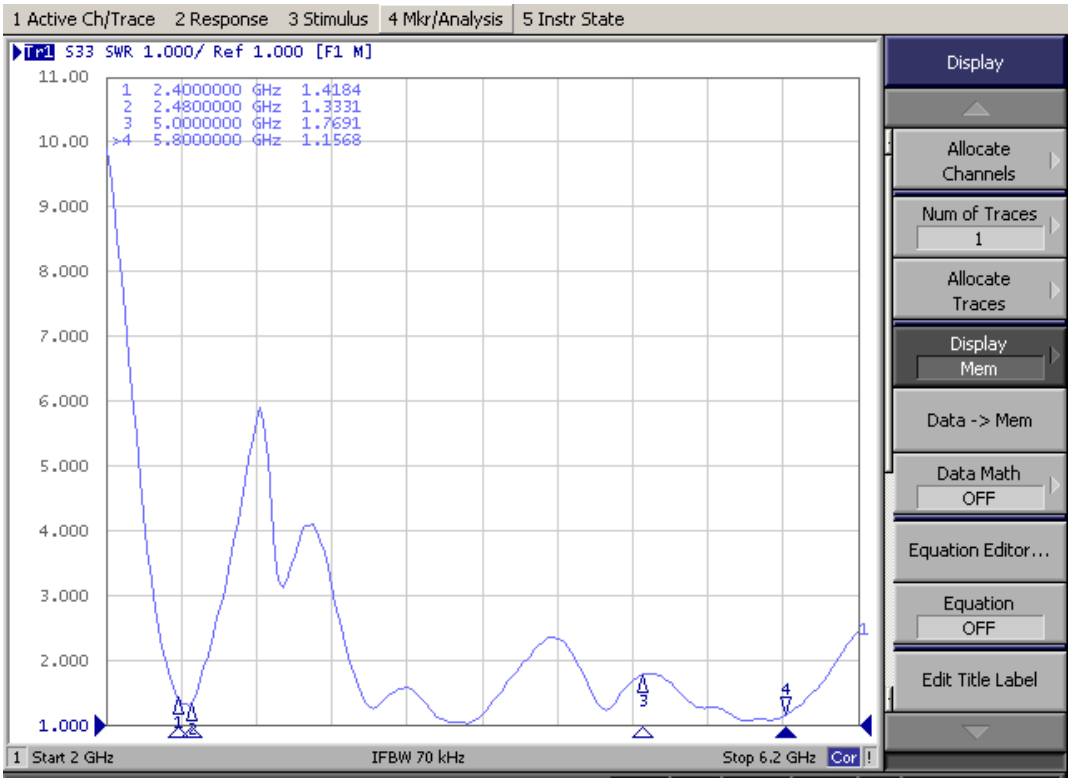
Electrical and mechanical properties

电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500/5100-5800MHZ	Frequency Range	2400-2500/5100-5800MHZ
电压驻波比	≤2.0	VSWR	≤2.0
增益	2.4G≤1DBI 5.8G≤2.5DBI	GAIN	2.4G≤1DBI 5.8G≤2.5DBI
辐射方式	全向	Radiation	OMNI
极化方式	垂直	Polarizatin	LINEAR
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 指 标		Mechanical Specifications	
接口形式	RP SMA	Input connector	RP SMA
天线材质	PCB	Antenna materia	PCB
工作温度	-30℃~+80℃	Working Temperature	-30℃~+80℃
工作湿度	40~85%	Working Humidity	40~85%

二、天线结构尺寸图 Antenna structure size diagram



三、无源测试数据 Passive test data



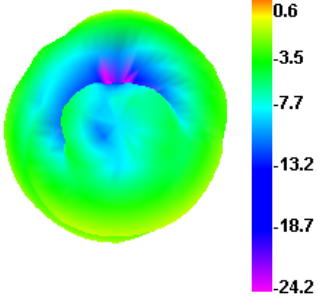
四、增益效率测试数据 Gain efficiency test data

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	47.06	-3.27	0.57	-1.58
2405	45.6	-3.41	0.36	-1.79
2410	49.46	-3.06	0.81	-1.34
2415	45.94	-3.38	0.44	-1.71
2420	48.96	-3.1	0.76	-1.39
2425	52.72	-2.78	1.07	-1.08
2430	52.54	-2.79	1.05	-1.1
2435	52.67	-2.78	1.01	-1.14
2440	54.42	-2.64	1.09	-1.06
2445	55.15	-2.58	1.09	-1.06
2450	51.83	-2.85	0.68	-1.47
2455	55.4	-2.56	0.98	-1.17
2460	52.21	-2.82	0.72	-1.43
2465	51.49	-2.88	0.76	-1.39
2470	49.3	-3.07	0.55	-1.6
2475	53.32	-2.73	0.92	-1.23
2480	54.14	-2.66	0.98	-1.17
2485	53.75	-2.7	0.92	-1.23
2490	59.49	-2.26	1.4	-0.75
2495	56.31	-2.49	1.23	-0.92
2500	55.03	-2.59	1.15	-1

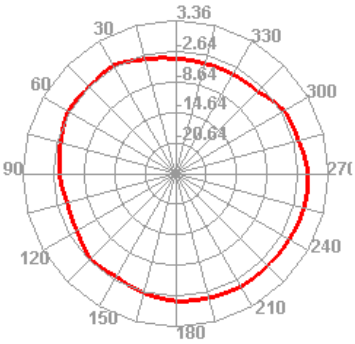
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
5000	23.32	-6.32	-0.82	-2.97
5050	26.74	-5.73	-0.56	-2.71
5100	28.01	-5.53	-0.24	-2.39
5150	31.95	-4.95	0.34	-1.81
5200	34.45	-4.63	1.06	-1.09
5250	43.87	-3.58	1.45	-0.7
5300	46.46	-3.33	1.73	-0.42
5350	48.73	-3.12	2.24	0.09
5400	48.1	-3.18	2.51	0.36
5450	43.31	-3.63	1.8	-0.35
5500	43.9	-3.58	1.88	-0.27
5550	35.27	-4.53	1.07	-1.08
5600	24.47	-6.11	0.48	-1.67
5650	23.92	-6.21	0.22	-1.93
5700	22.03	-6.57	-0.16	-2.31
5750	20.32	-6.92	-0.92	-3.07
5800	19.69	-7.06	-0.97	-3.12
5850	22.56	-6.47	-0.57	-2.72
5900	19.45	-7.11	-0.47	-2.62

五、方向性测试数据 Directivity test data

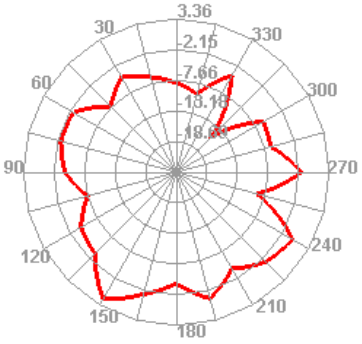
2400.000MHz



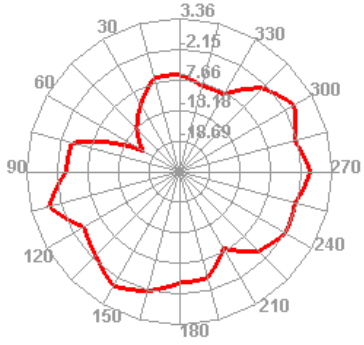
2400.000MHz H



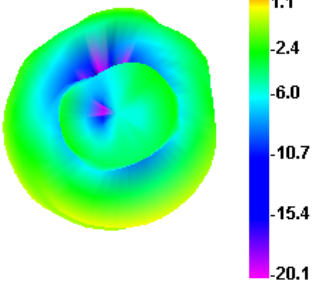
2400.000MHz E1



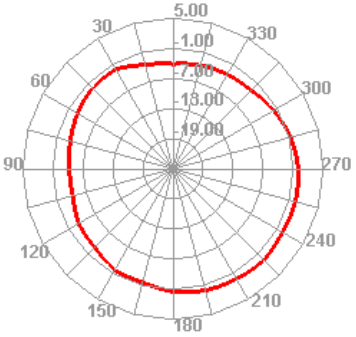
2400.000MHz E2



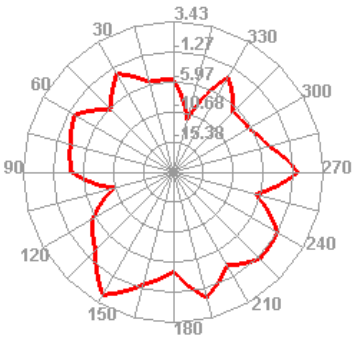
2450.000MHz



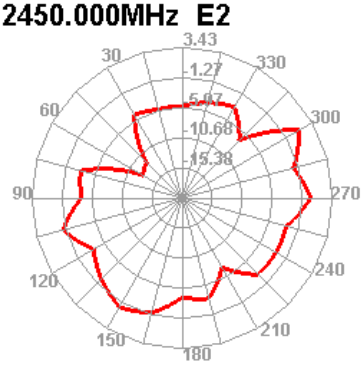
2450.000MHz H



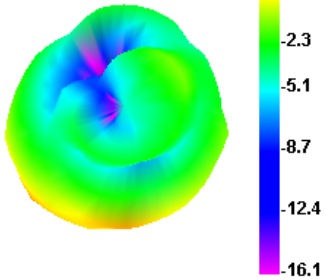
2450.000MHz E1



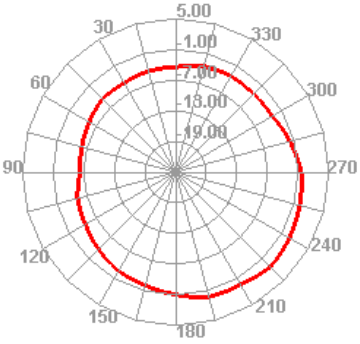
2450.000MHz E2



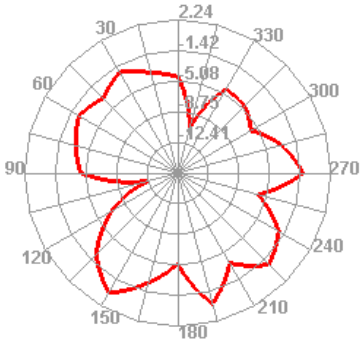
2500.000MHz



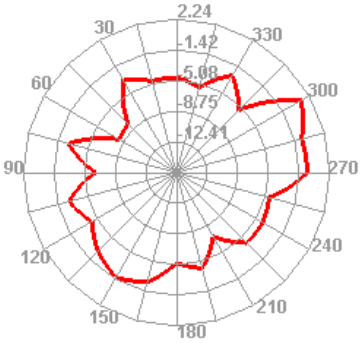
2500.000MHz H



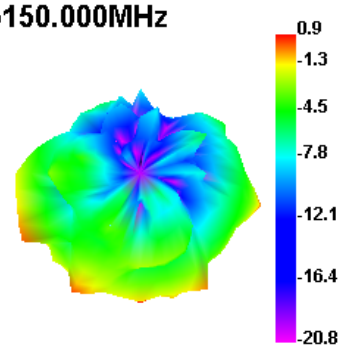
2500.000MHz E1



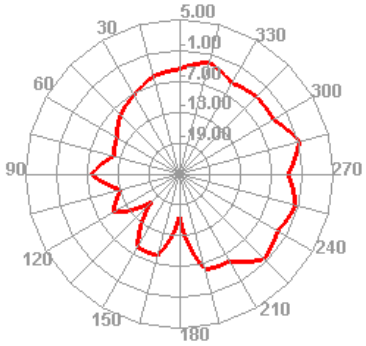
2500.000MHz E2



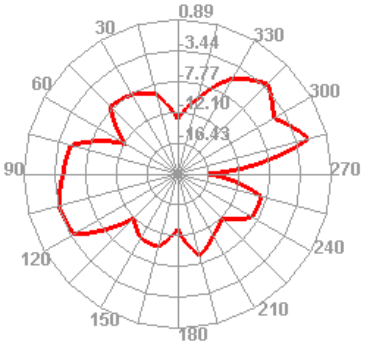
5150.000MHz



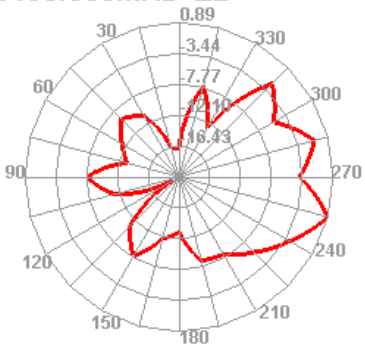
5150.000MHz H



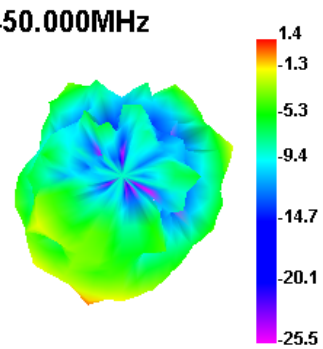
5150.000MHz E1



5150.000MHz E2



5450.000MHz



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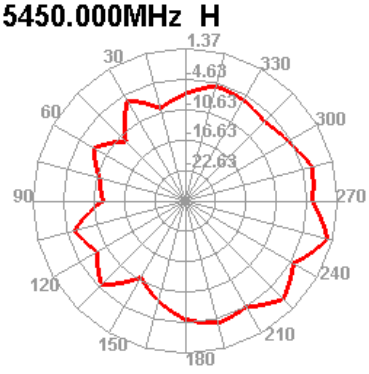

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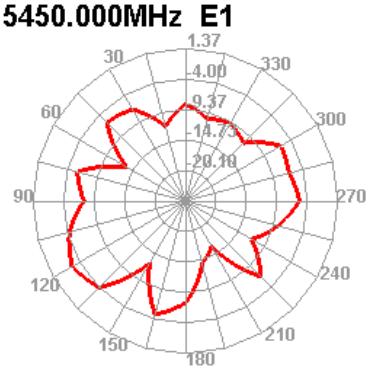
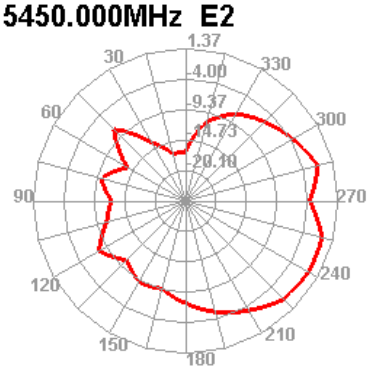
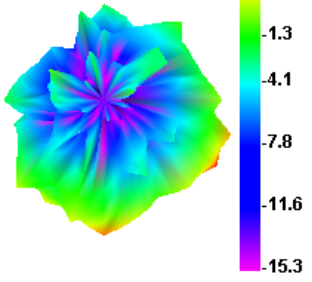


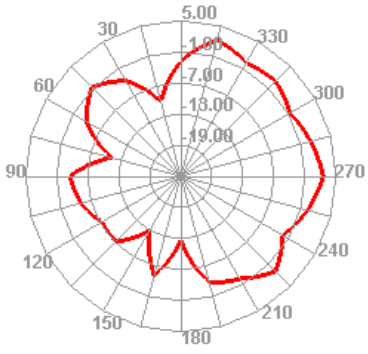
5450.000MHz E2



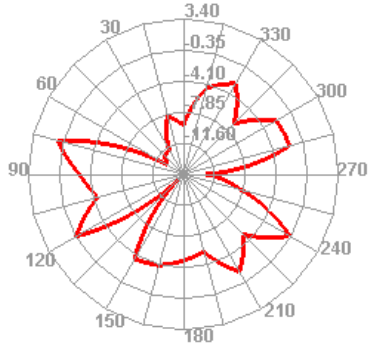
5850.000MHz



5850.000MHz H



5850.000MHz E1



5850.000MHz E2