

产品规格书

Product Specification

客户名称 Customer Name: _____

项目名称 Project Name: 2.4/5.8G 2DB 胶棒天线

规格描述 Product Spec: YH-2458-RPSMA-108

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

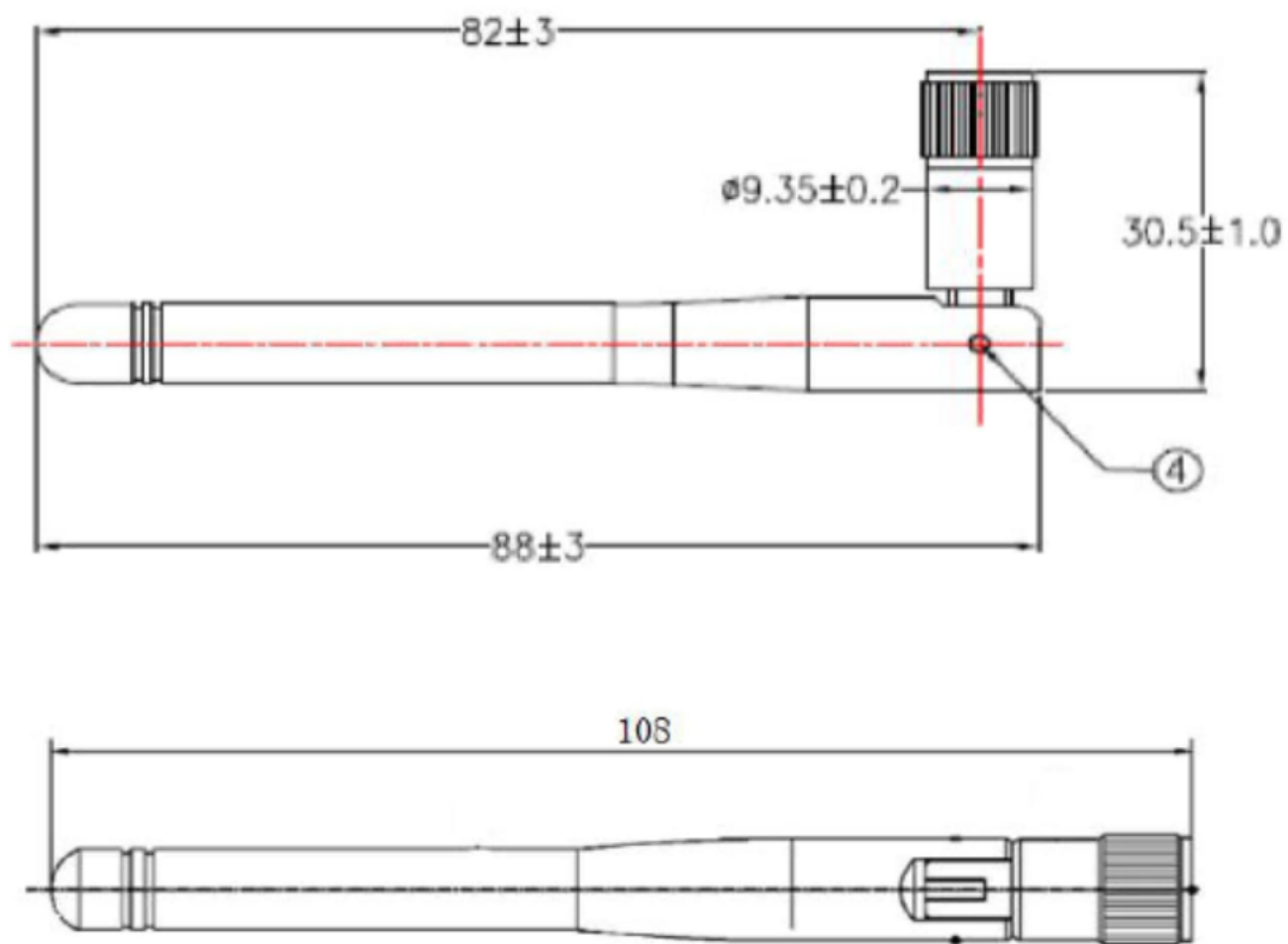
审核 check	批准 approved	承认 approval

产品图片 (PRODUCT PICTURE)



产品规格图 (PRODUCT SPECIFICATION CHART)

Unit: mm



测试设备及原理 Testing Equipment and Principle

1. 测试设备:

网络分析仪 Network Analyzers :

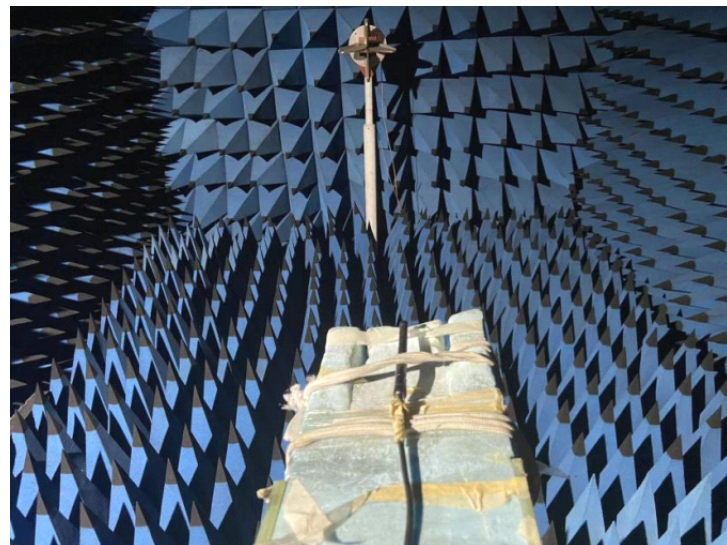
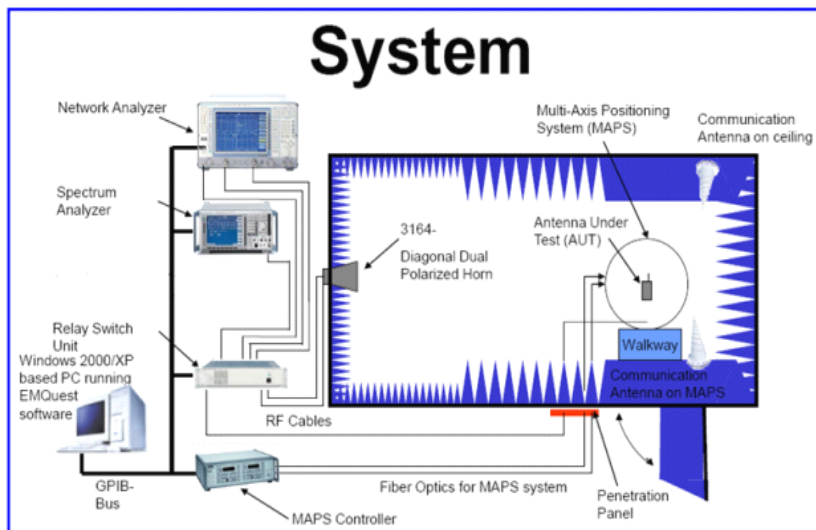
Agilent 8753D 5071B

综合测试仪 Communications Test Set:

Agilent E5515C/CMW500

3D 暗室测试系统 3D Chamber Test System:

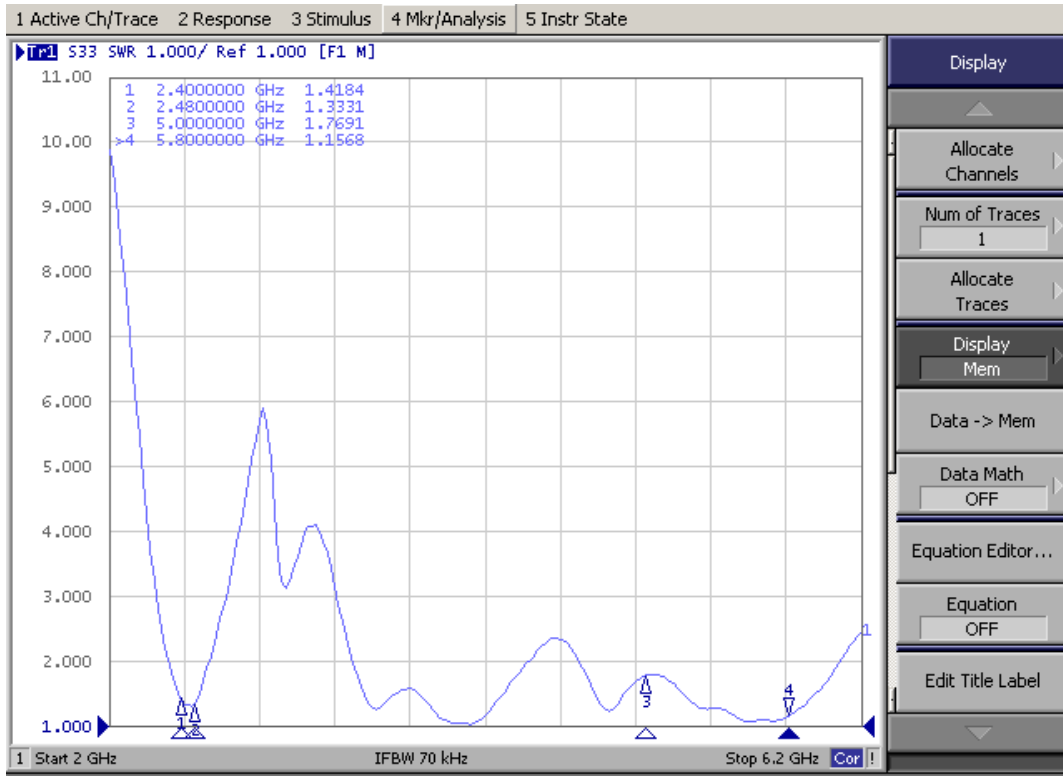
2. 测试原理:



一、电性能以及机械性能

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	Polarization	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°C~+80°C	Working Temperature	-30°C~+80°C
工作湿度	40~85%	Working Humidity	40~85%

二、无源测试数据

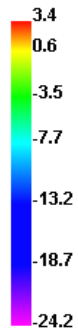
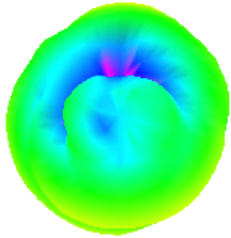


三、增益效率测试数据

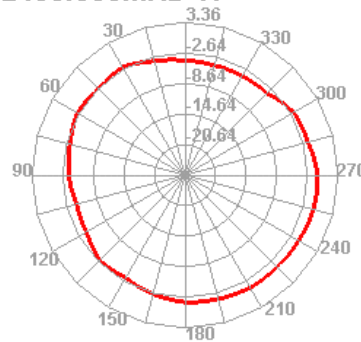
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	47.06	-3.27	0.57	-1.58	5000	23.32	-6.32	-0.82	-2.97
2405	45.6	-3.41	0.36	-1.79	5050	26.74	-5.73	-0.56	-2.71
2410	49.46	-3.06	0.81	-1.34	5100	28.01	-5.53	-0.24	-2.39
2415	45.94	-3.38	0.44	-1.71	5150	31.95	-4.95	0.34	-1.81
2420	48.96	-3.1	0.76	-1.39	5200	34.45	-4.63	1.06	-1.09
2425	52.72	-2.78	1.07	-1.08	5250	43.87	-3.58	1.45	-0.7
2430	52.54	-2.79	1.05	-1.1	5300	46.46	-3.33	1.73	-0.42
2435	52.67	-2.78	1.01	-1.14	5350	48.73	-3.12	2.24	0.09
2440	54.42	-2.64	1.09	-1.06	5400	48.1	-3.18	2.51	0.36
2445	55.15	-2.58	1.09	-1.06	5450	43.31	-3.63	1.21	-0.35
2450	51.83	-2.85	0.68	-1.47	5500	43.9	-3.58	1.88	-0.27
2455	55.4	-2.56	0.98	-1.17	5550	35.27	-4.53	1.07	-1.08
2460	52.21	-2.82	0.72	-1.43	5600	24.47	-6.11	0.48	-1.67
2465	51.49	-2.88	0.76	-1.39	5650	23.92	-6.21	0.22	-1.93
2470	49.3	-3.07	0.55	-1.6	5700	22.03	-6.57	-0.16	-2.31
2475	53.32	-2.73	0.92	-1.23	5750	20.32	-6.92	-0.92	-3.07
2480	54.14	-2.66	0.98	-1.17	5800	19.69	-7.06	-0.97	-3.12
2485	53.75	-2.7	0.92	-1.23	5850	22.56	-6.47	2.5	-2.72
2490	59.49	-2.26	1.4	-0.75	5900	19.45	-7.11	-0.47	-2.62
2495	56.31	-2.49	1.23	-0.92					
2500	55.03	-2.59	1.15	-1					

四、方向性测试数据

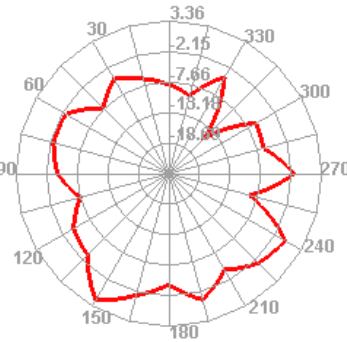
2400.000MHz



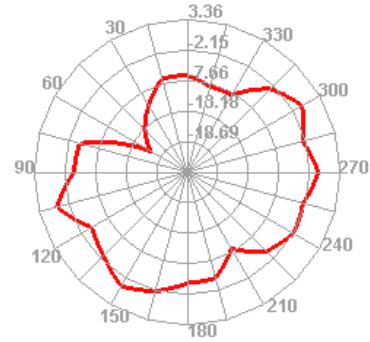
2400.000MHz H



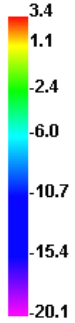
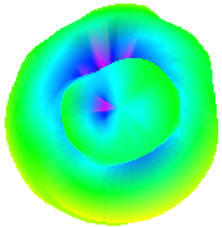
2400.000MHz E1



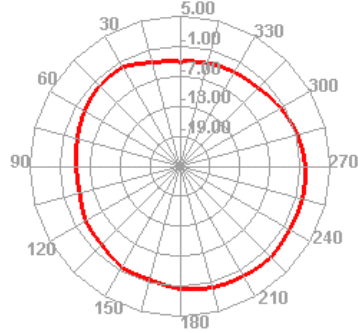
2400.000MHz E2



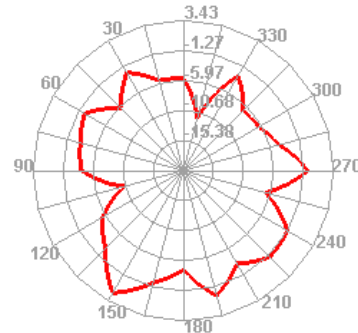
2450.000MHz



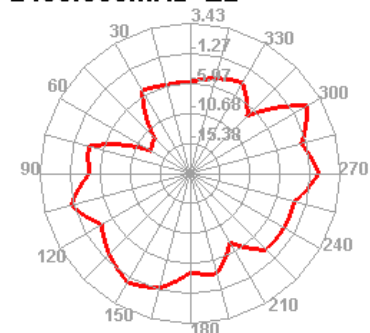
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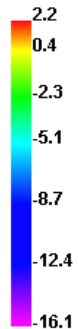
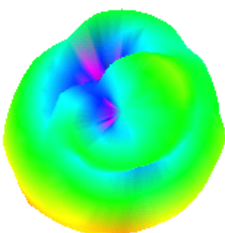
2450.000MHz E1



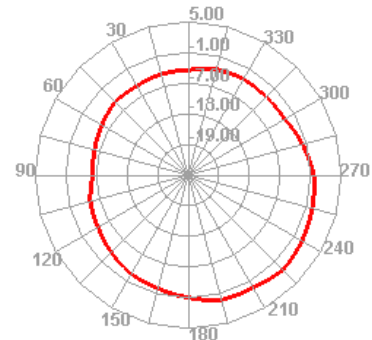
2450.000MHz E2



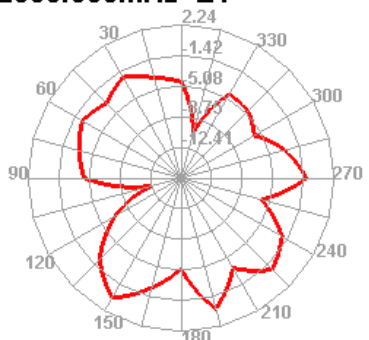
2500.000MHz



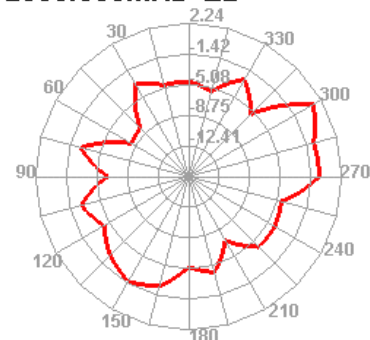
2500.000MHz H



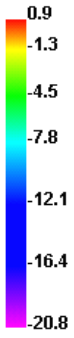
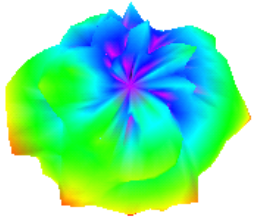
2500.000MHz E1



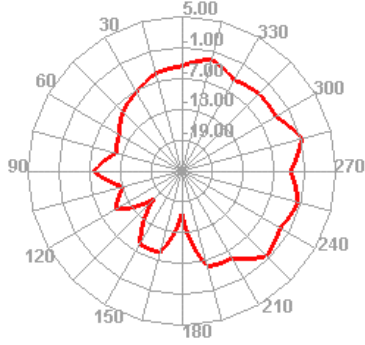
2500.000MHz E2



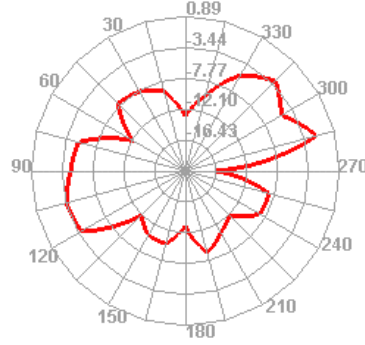
5150.000MHz



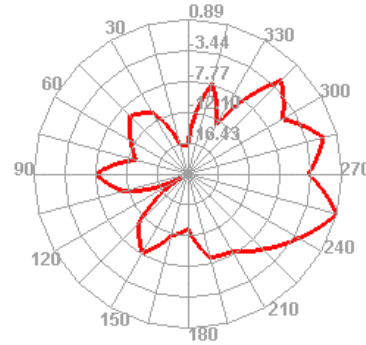
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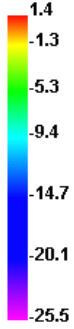
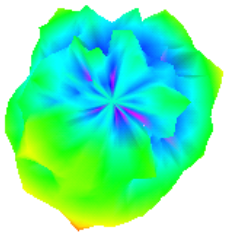
5150.000MHz E1



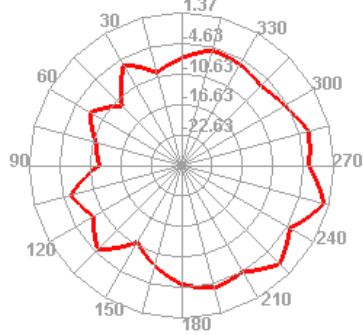
5150.000MHz E2



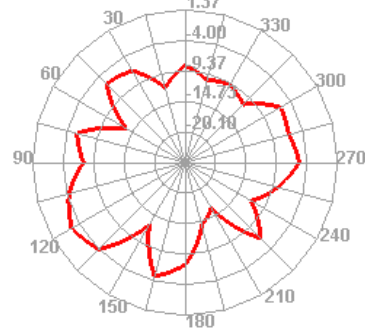
5450.000MHz



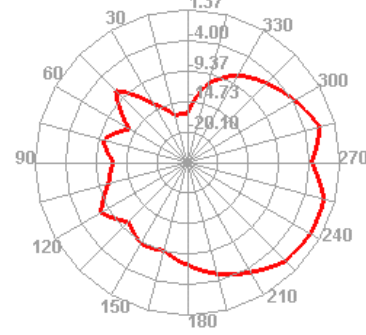
5450.000MHz H



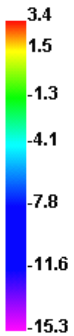
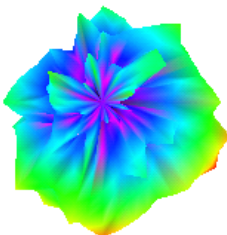
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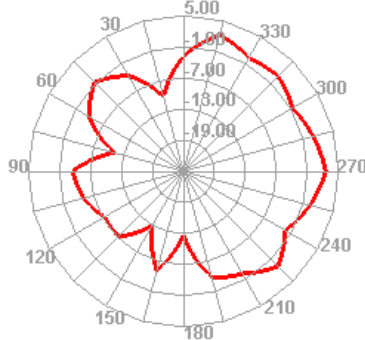
5450.000MHz E2



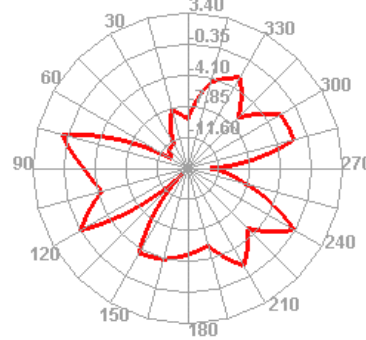
5850.000MHz



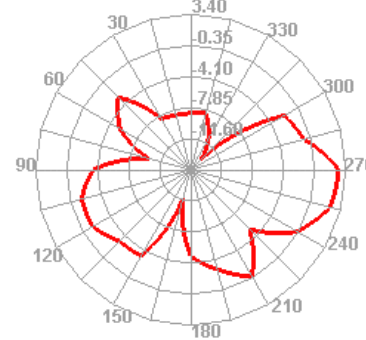
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



五、 可靠性试验报告

项目	测试条件	规格
储存环境	在没有指定的情况下测试温度、湿度、气压如下： 1. 温度为-40℃~+85℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
高低温试验	在70℃与-40℃之间进行5次循环，然后在正常条件下1-2H，检查外观质量。	尺寸应满足规定并应满足满足于机械、电气性能
耐恒定湿热试验	相对湿度95±3%，试验温度：40℃.持续2H作用后，试品取出后5min之内测定电气性能，试品在正常条件下1-2H，检查外观质量	尺寸应满足规定并应满足满足于机械、电气性能
振动试验	振频范围10-55HZ，位移幅值：0.35MM，加速度幅值：50.0M/S，扫频循环次数：30次	电气机械性能正常
跌落试验	1M高空按照互相垂直的轴方向自由跌落3次	电气机械性能正常