



产品规格书 Product Specification

项目名称 Project Name: 2.4G+5.8G Small folding 3.5DB set black
adhesive rod antenna

规格描述 Product Spec: YG-2458G-SMA-J136.5

版 本 REV: V1.0

日 期 Date: 2023.11.27

制 作 drawing	审 核 check	批 准 approved
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客户承认 Customer Approve

审 核 check	批 准 approved	承 认 approval



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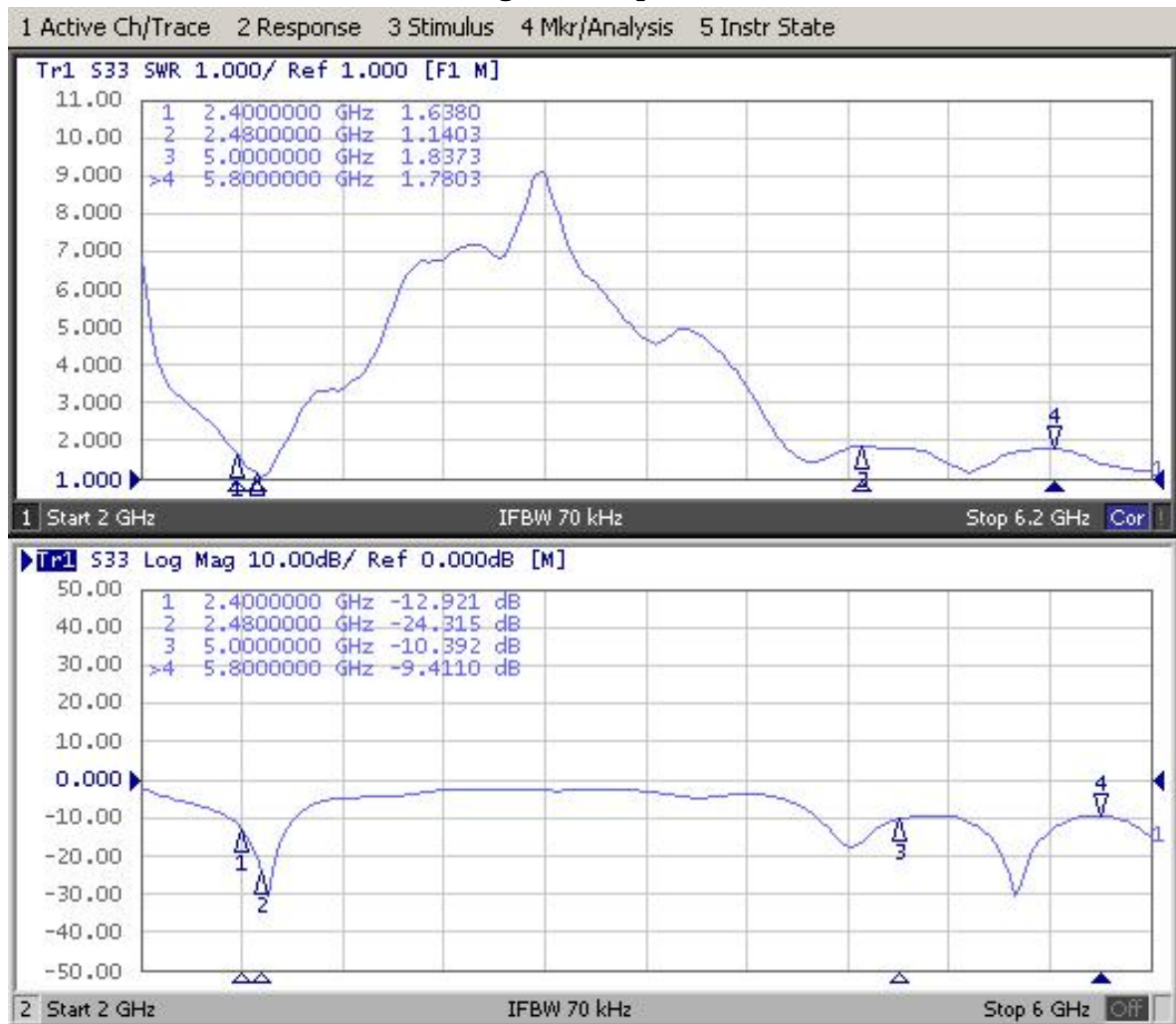


电性能指标 Electrical Performance Index

电 器 性 能 指 标		Electrical Specifications	
频率范围		2400-2500/5000-5800MHZ	
电压驻波比	≤ 2.0	VSWR	≤ 2.0
增益	2400-2500MHz:2.46 dBi 5000-5900MHz:2.86 dBi	GAIN	2400-2500MHz:2.46 dBi 5000-5900MHz:2.86 dBi
辐射方式	全向	Radiation	OMNI
极化方式	线极化	Polarizatin	LINEAR
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 性 能 指 标		Mechanical Specifications	
接口形式	SMAJ	Input connector	SMAJ
天线材质	PCB+五金	Antenna materia	PCB+Hardware
工作温度	-30℃~+80℃	Working Temperature	-30℃~+80℃
工作湿度	40~85%	Working Humidity	40~85%

测试报告 Test report

1. 天线驻波图 Antenna standing wave pattern





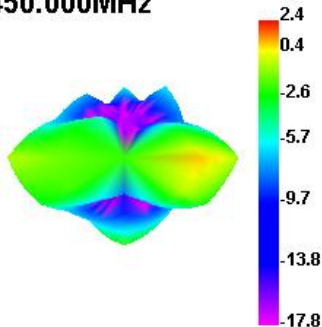
2. 天线效率 Antenna effeciency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	41.49	-3.82	1.75	-0.4
2410	39.91	-3.99	1.66	-0.49
2420	35.95	-4.44	1.18	-0.97
2430	37.64	-4.24	1.62	-0.53
2440	41.01	-3.87	1.96	-0.19
2450	39.99	-3.98	1.96	-0.19
2460	41.31	-3.84	2.29	0.14
2470	41.46	-3.82	2.46	0.31
2480	37.29	-4.28	2.03	-0.12
2490	36.41	-4.39	1.9	-0.25
2500	36.28	-4.4	1.72	-0.43

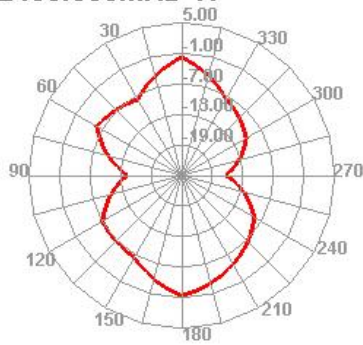
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
5000	30.03	-3.23	1.76	1.39
5050	37.99	-3.2	2.1	1.05
5100	36.07	-3.84	1.59	1.35
5150	37.8	-3.56	1.61	1.54
5200	34.98	-3.56	2.23	1.08
5250	40.83	-3.48	2.86	1.41
5300	37.32	-3.63	2.28	1.83
5350	39.84	-3.56	2.32	1.17
5400	38.29	-2.17	2.21	1.06
5450	37.03	-2.94	2.57	1.42
5500	36.93	-3.1	2.54	1.39
5550	38.23	-3.2	2.16	1.01
5600	38.77	-3.41	2.38	1.23
5650	36.62	-3.73	1.93	1.72
5700	39.28	-3.33	2.03	1.18
5750	35.52	-3.93	2.72	1.87
5800	34.35	-3.13	1.39	1.76
5850	32.74	-3.69	2.62	1.47
5900	36.13	-2.8	2.48	2.33

3. 天线方向图 Antenna pattern

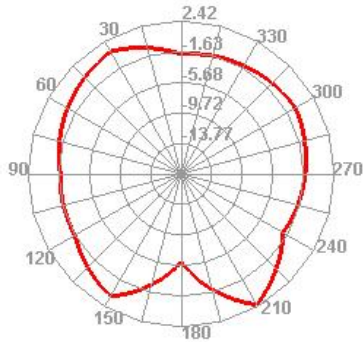
2450.000MHz



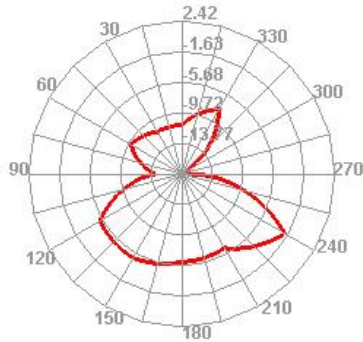
2450.000MHz H



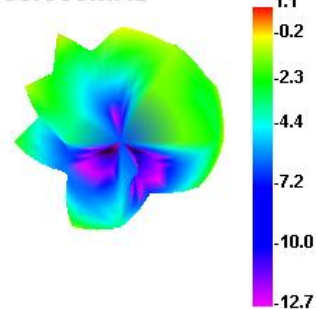
2450.000MHz E1



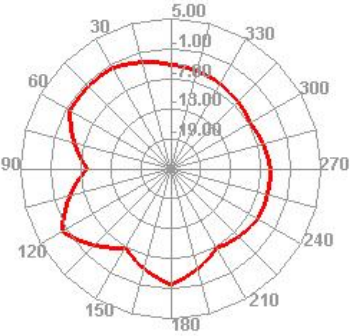
2450.000MHz E2



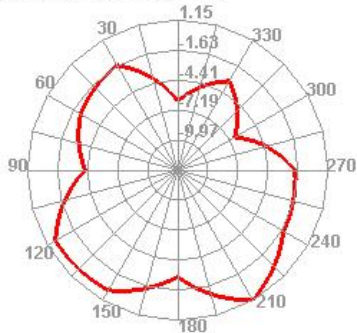
5650.000MHz



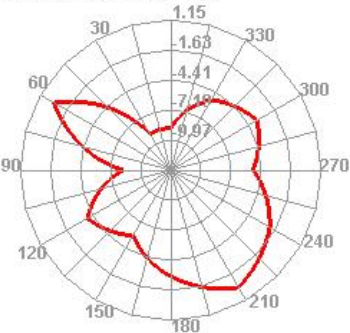
5650.000MHz H



5650.000MHz E1



5650.000MHz E2



测试设备及原理 Testing Equipment and Principle

1. 测试设备:

网络分析仪 Network Analyzers :

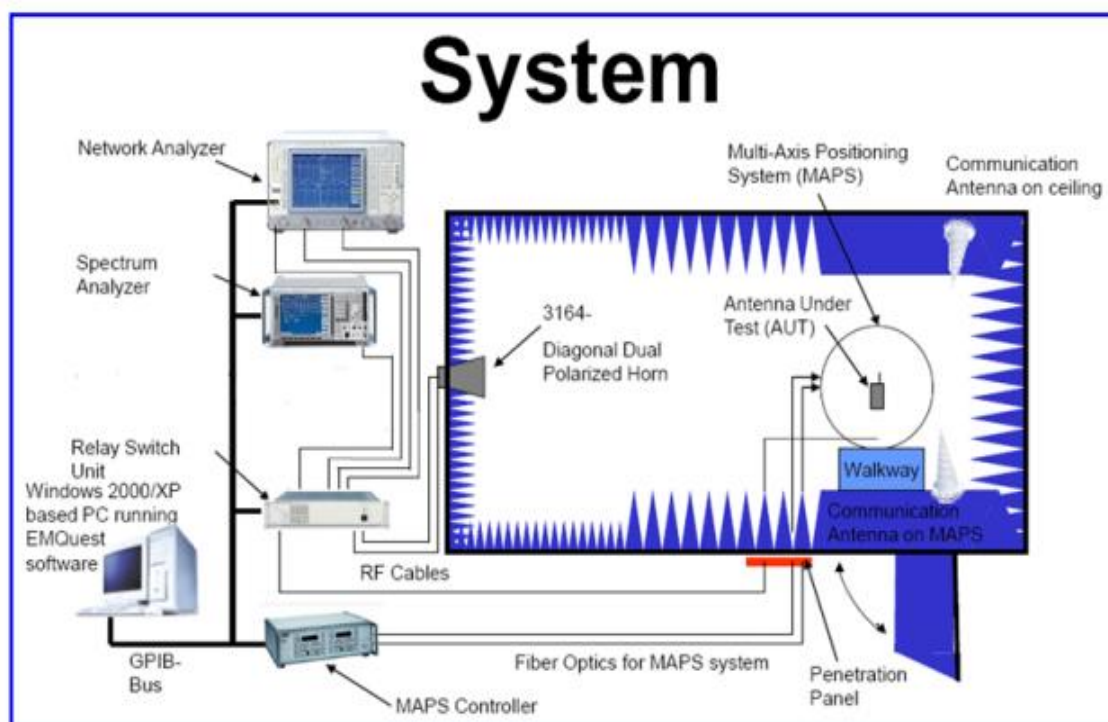
Agilent 8753D 5071B

综合测试仪 Communications Test Set:

Agilent E5515C

3D 暗室测试系统 3D Chamber Test System:

2. 测试原理:



工程图纸 Product Drawing

