

APPROVAL SHEET

客户名称 CUSTOMER : Ningbo Pelican Smart Fishing Tackle Co., Ltd
名称 NAME : 2.4G Copper tube antenna
物料代码 PART CODE :
规格型号 MODEL NO : YH-2.4G-1.13IPEX-L100
日期 DATE : 2022.11.18

制作 drawing	审核 check	批准 approved
黄勇 Yong Huang	王月玮 YueWei Wang	卫林超 LinGao Wei

客户承认 Customer Approve

审核 check	批准 approved	承认 approval

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天线制造商 Antenna manufacturer

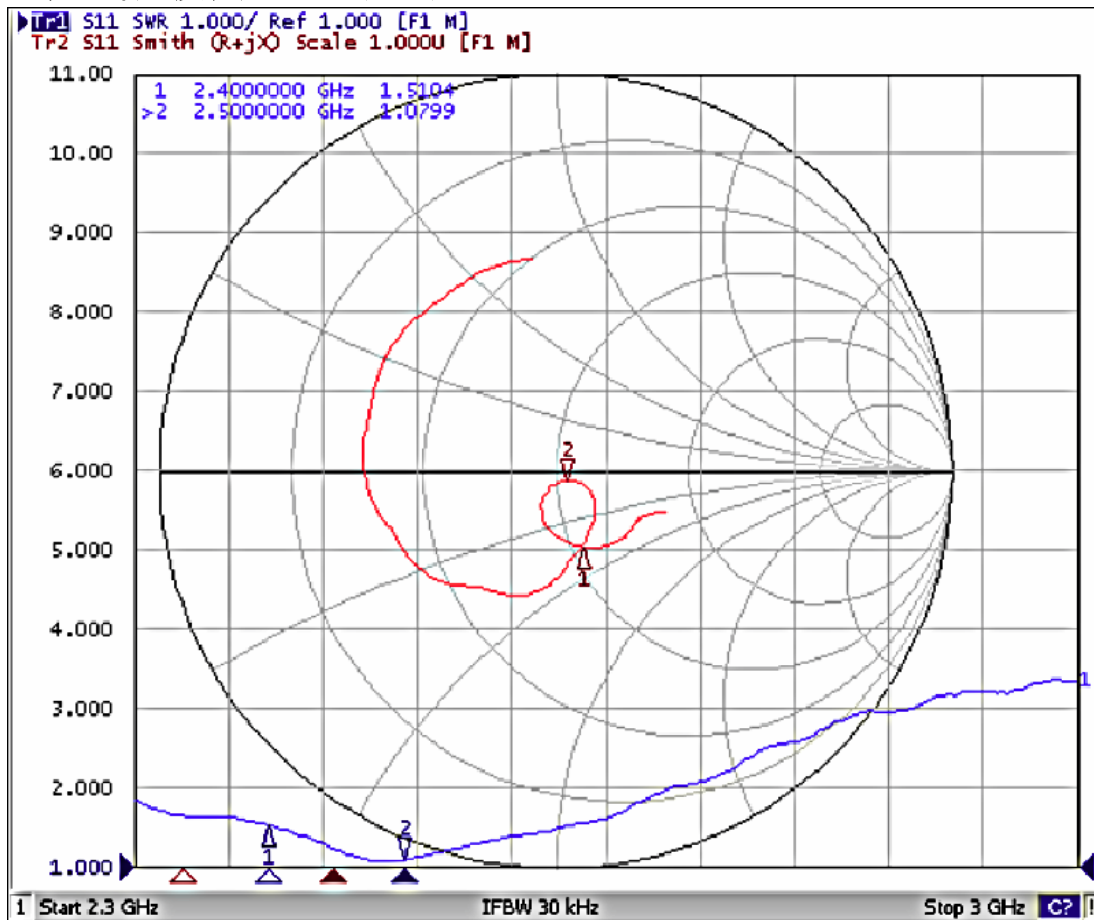
Company Name	Zhoushan Xili Innovation Science & Technology Co.,Ltd
Address	1 Haida South Road, Changzhi Island, Lincheng New District, Zhoushan City, Zhejiang Province
Phone Number	15257072135

电性能指标 Electrical Performance Index

电器性能指标 Electrical Specifications	
频率范围 Frequency	2400-2480MHz
电压驻波比 VSWR	≤2.0
增益 Peak Gain (Max)	2.04DBI
辐射方式 Radiation	全向 OMNI
极化方式 Polarization	线极化 LINEAR
输入阻抗 Input Impedance	50 Ω
机械性能指标 Mechanical Specifications	
接口形式 Input connector	IPEX-1
天线材质 Antenna materia	FPC
工作温度 Working Temperature	-30℃~+80℃
工作湿度 Working Humidity	40~85%

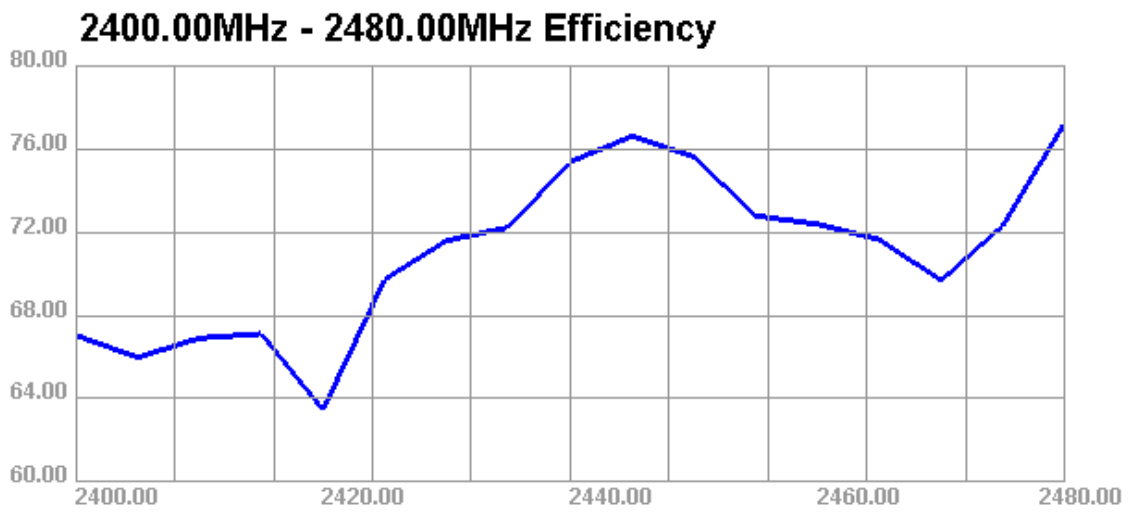
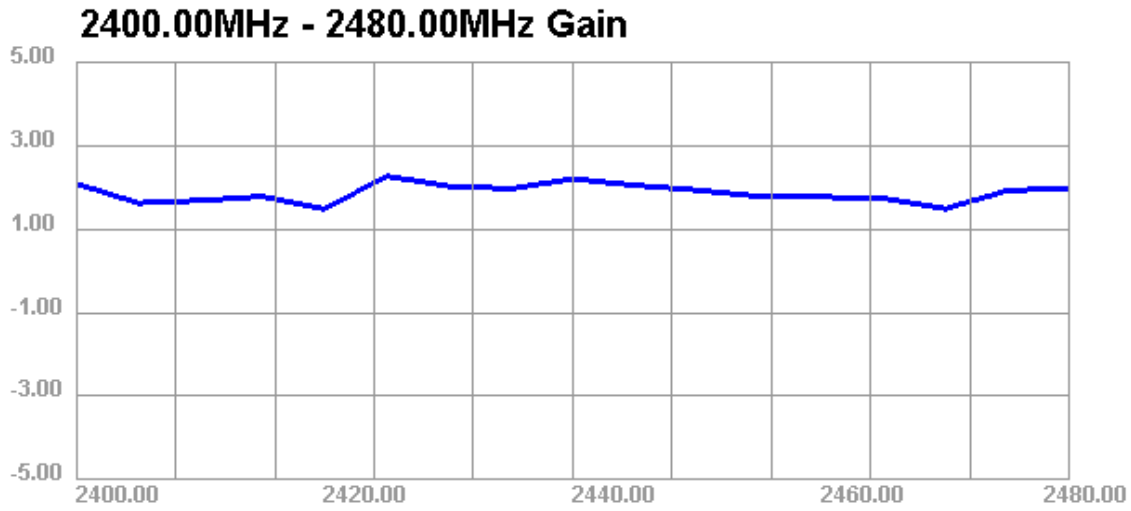
测试报告 Test report

1. 天线驻波图 VSWR(S11)

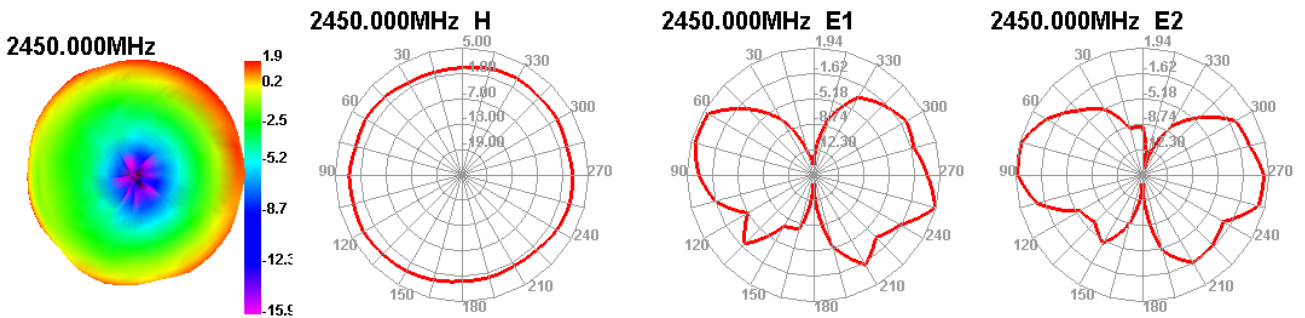


2. 天线效率 Gain and Efficiency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	66.82	-1.97	1.86	-0.29	35.461	31.592	2.09	-22.85	49.53	49.95
2405	65.76	-2.04	1.4	-0.75	34.427	31.561	1.63	-21.32	49.61	50.02
2410	66.68	-1.97	1.46	-0.69	34.49	32.423	1.69	-21.52	49.69	50.08
2415	66.89	-1.96	1.55	-0.6	34.391	32.732	1.78	-20.76	49.72	50.11
2420	63.24	-2.2	1.25	-0.9	32.556	30.918	1.48	-21.52	49.74	50.13
2425	69.51	-1.8	2.04	-0.11	35.961	33.781	2.27	-20.44	49.85	50.14
2430	71.37	-1.68	1.8	-0.35	36.936	34.664	2.03	-19.71	49.96	50.15
2435	72	-1.64	1.74	-0.41	37.613	34.622	1.97	-17.67	50.02	50.19
2440	75.15	-1.46	1.97	-0.18	39.636	35.745	2.2	-17.5	50.08	50.22
2445	76.38	-1.39	1.82	-0.33	40.396	36.215	2.05	-16.38	50.09	50.12
2450	75.39	-1.44	1.71	-0.44	40.193	35.43	1.94	-15.85	50.1	50.01
2455	72.56	-1.61	1.55	-0.6	38.863	33.929	1.78	-15.17	50.07	50.03
2460	72.16	-1.63	1.54	-0.61	38.888	33.501	1.77	-16.35	50.04	50.06
2465	71.42	-1.68	1.51	-0.64	38.552	33.099	1.74	-17.32	50.09	50.1
2470	69.46	-1.8	1.26	-0.89	36.942	32.744	1.49	-16.74	50.14	50.14
2475	72.08	-1.64	1.69	-0.46	38.153	34.161	1.92	-17.57	50.24	50.16
2480	77.02	-1.35	1.76	-0.39	40.169	37.081	1.99	-15.91	50.34	50.18



3. 天线方向图 Radiation Pattern



测试设备及原理 Testing Equipment and Principle

1. 测试设备 Test Equipment:

网络分析仪 Network Analyzers :

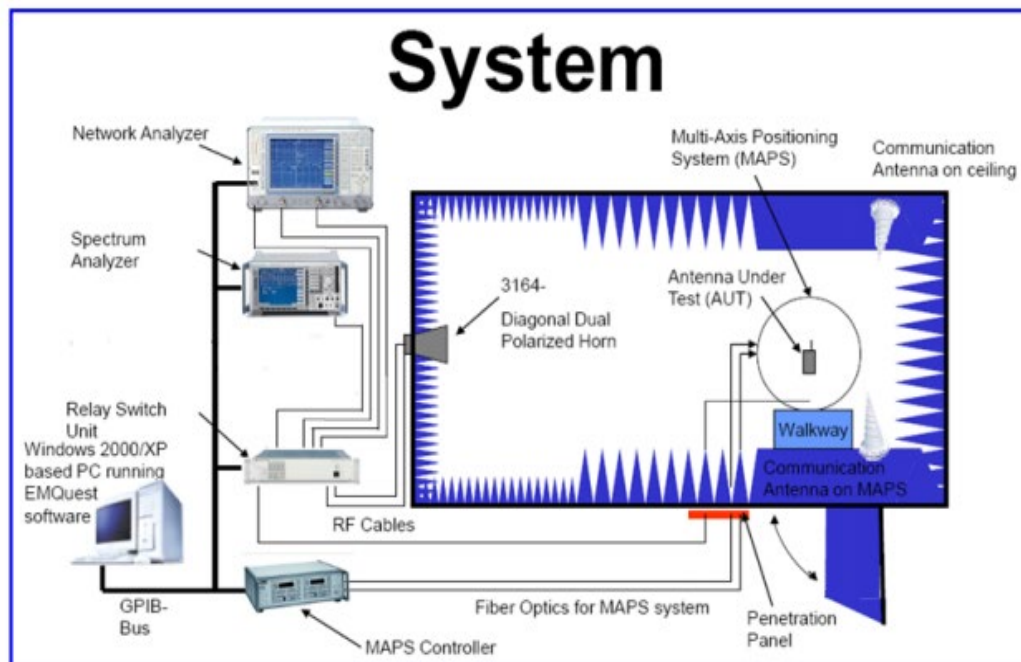
Agilent 8753D 5071B

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 Test Principle:



工程图纸 Product Drawing

