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Shenzhen Dehuida Intelligent Technology Co., Ltd

No.121, Qiankeng Road, Qiankeng Community, Fucheng Street, Longhua

District, Shenzhen City, P.R. China

Model of prototype: S29

Supplierspecifications: 2.4G BT antenna

Supplier model: Xiaomi Sound Outdoor (MDZ-38-DB-A1)

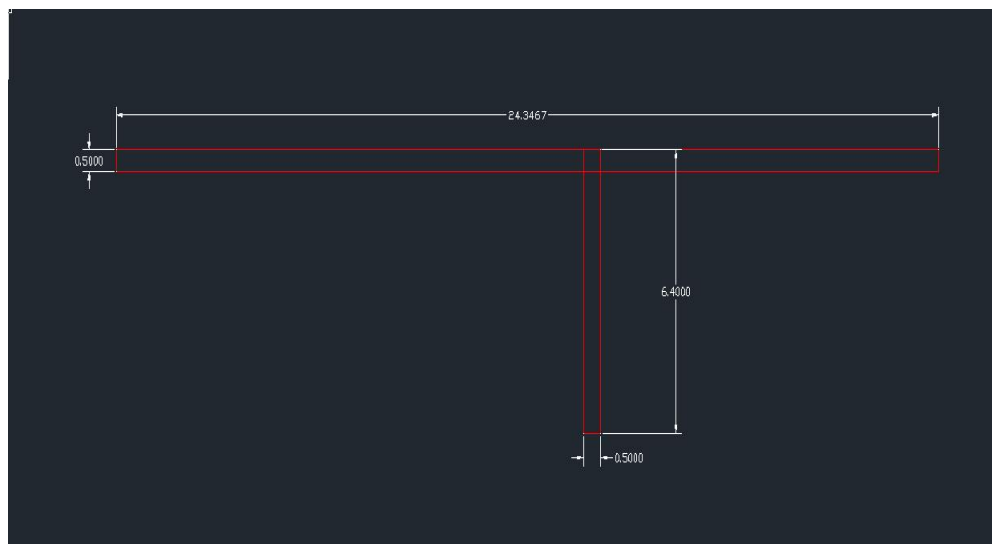
Antenna type: PCB Antenna

1.Antenna specifications and model

Antenna specifications

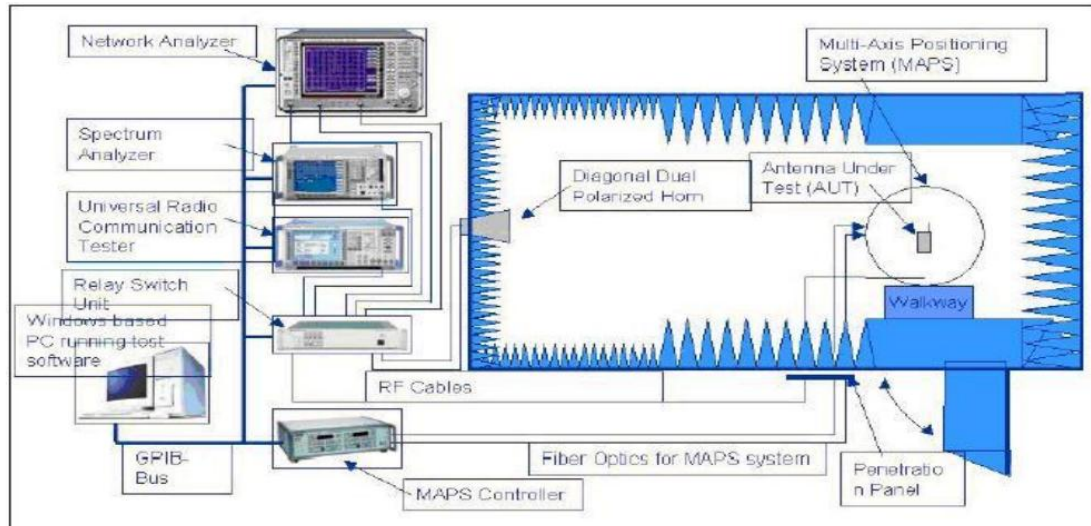


Supplier model

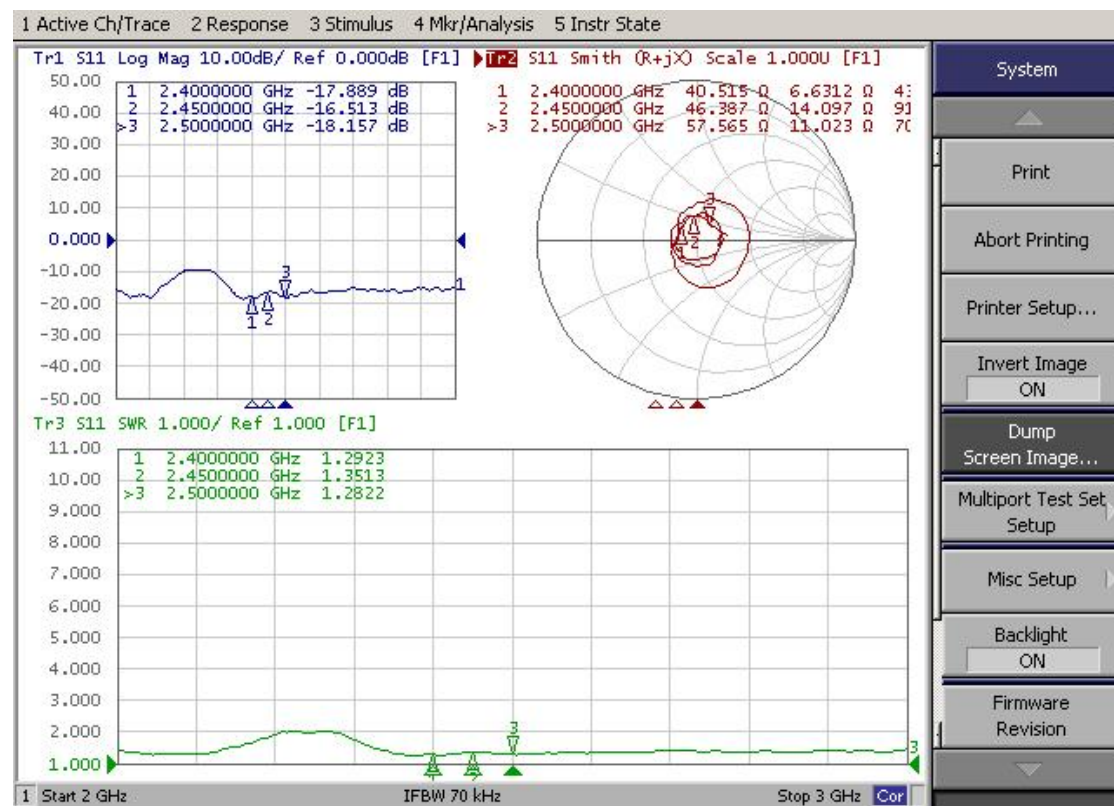


2. OTA test macro

1. Test instrument and environment: CTIA 743 darkroom, 8960 / 5515c, the mobile phone is placed back to the turntable 4 meters away from the standard horn antenna:



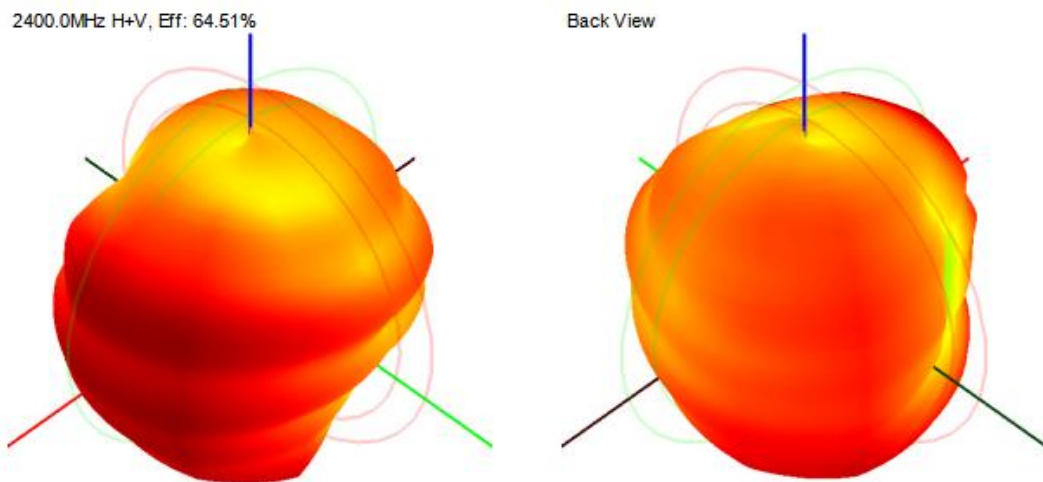
3. Antenna passive data S11, ReturnLoss, SWR, Smith



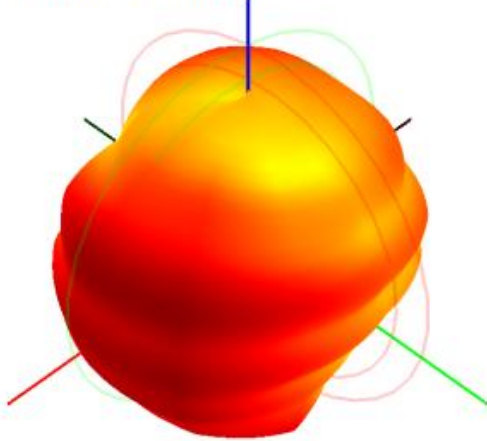
4. Gain of efficiency:

	Frequency (MHz)	Efficiency (%)	Efficiency (dBi)	Gain (dBi)
S29 无源 OTA PCB 天线 S29 PCB Antenna	2400	64.51	-1.90	1.46
	2410	60.98	-2.15	1.22
	2420	59.06	-2.29	1.24
	2430	59.91	-2.22	1.49
	2440	62.71	-2.03	1.50
	2450	61.44	-2.12	1.42
	2460	66.89	-1.75	1.38
	2470	67.55	-1.70	1.39
	2480	63.64	-1.96	1.28
	2490	59.81	-2.23	1.00
	2500	60.94	-2.15	1.00

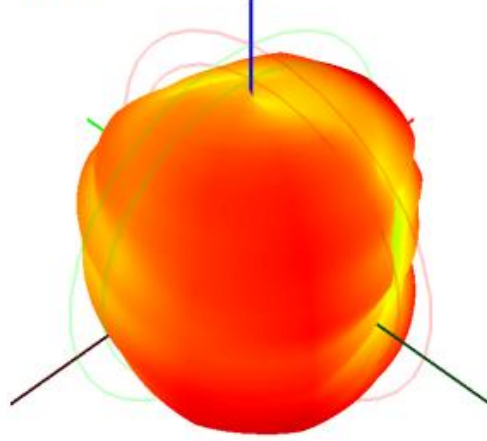
5. 3D antenna diagram



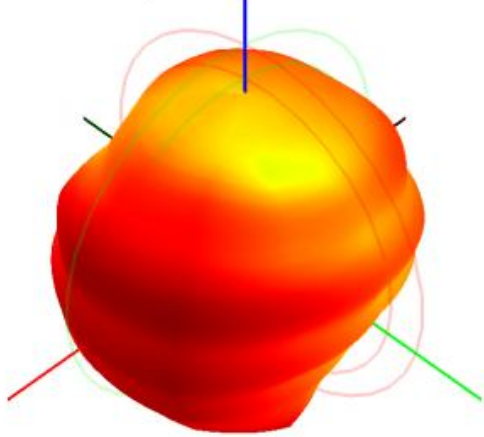
2440.0MHz H+V, Eff: 62.71%



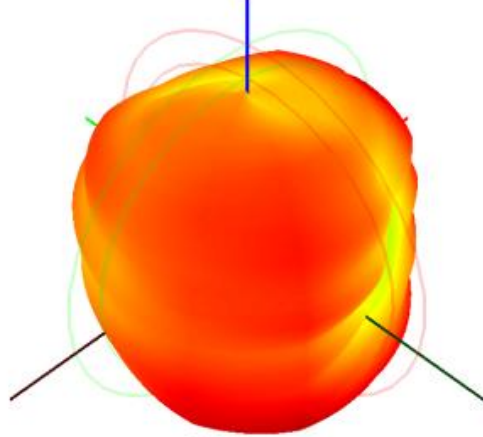
Back View



2480.0MHz H+V, Eff: 63.64%

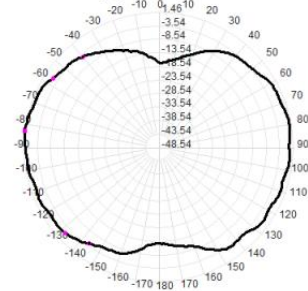


Back View

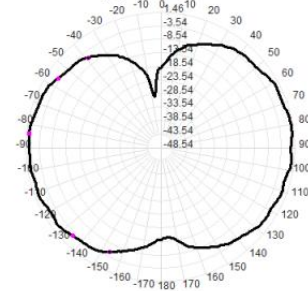


6. 2D antenna diagram

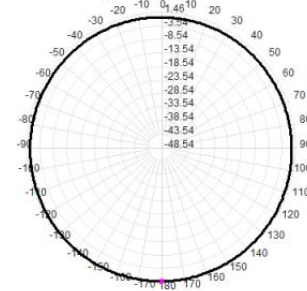
2400.0MHz Total(E1), Max= 1.46dBi

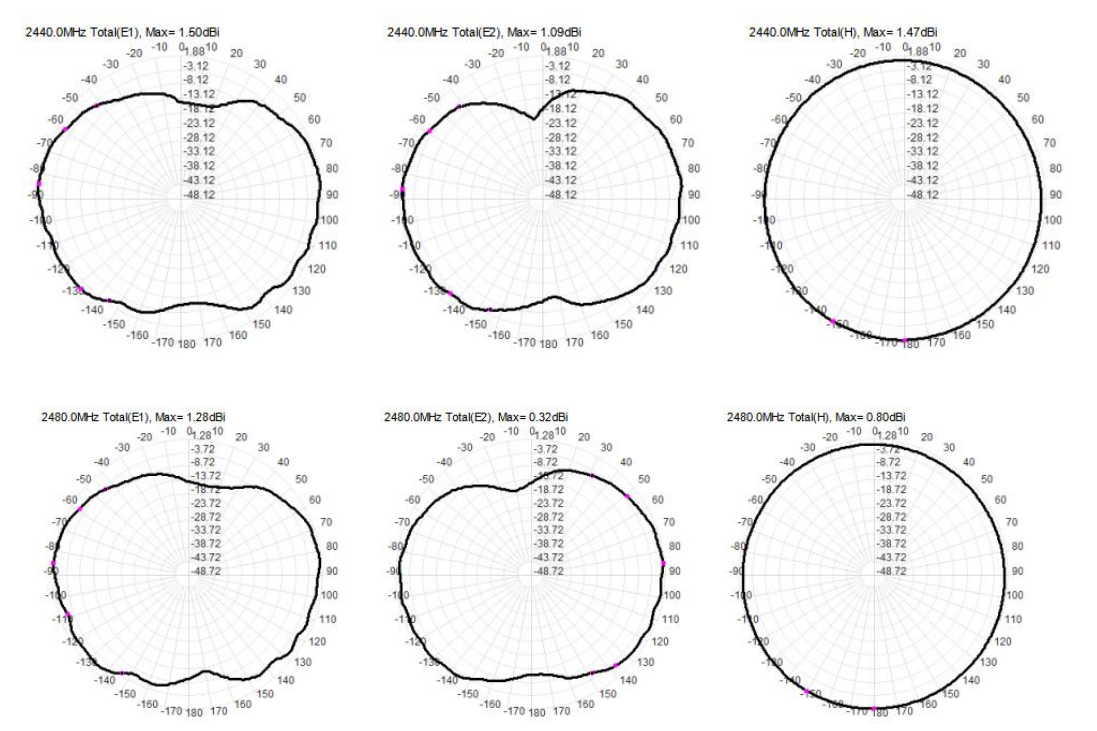


2400.0MHz Total(E2), Max= 0.45dBi



2400.0MHz Total(H), Max= 0.86dBi





7. Antenna drawing:

 赣州得辉达科技有限公司 GANZHOU DEHUIDA ELECTRONICS CO. LTD.	机型:S29			材 质:	绘 图: 向小朋
	编号:			表面处理:	审 核:
	品名: 天线尺寸			比 例: 2:1	
	版本: 1. 0			页 数: 1	生效日期: 2024-08-28
		A 4	单位:mm		