



深圳市安特通讯科技有限公司

Shenzhen ANT Communication Technology Co., LTD.

Product specification sheet

customer	普宙	project	S200
Customer part number	35-0324-400	Part number	ANT962302IB56-05
version	V1.0	describe	ipex1 代接头, 馈线长度 34CM, 线径 1.13mm, 天线尺寸异型, 放置于前脚架 L1
RF	阳诗海	ME	李志恩
technical manager	刘峰	date	2024/08/09

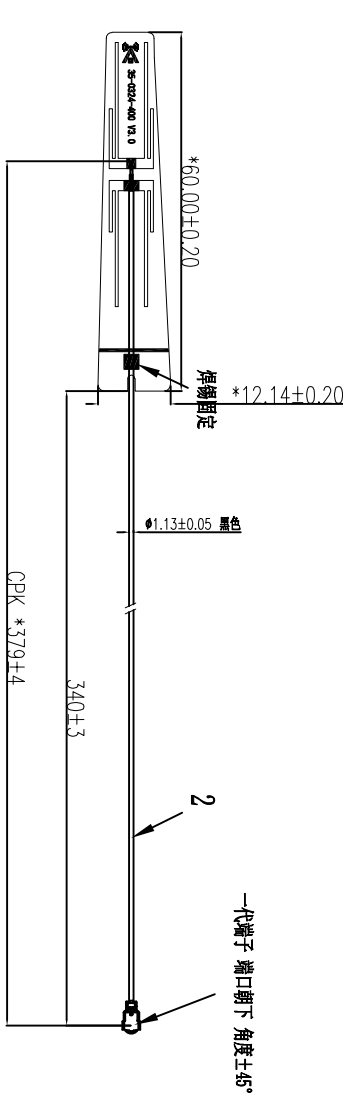
customer confirmation	
Does the assembly meet your company's requirements: <input type="checkbox"/> OK <input type="checkbox"/> NG	

地址: 深圳市光明新区马田街道新庄社区将富路 10 号同富汉海达工业园 A 栋 701

Address: 701, Building A, Tongfuhan Haida Industrial Park, No. 10 Jiangfu Road, Xinzhuang Community, Matian Street, Guangming New District, Shenzhen, China

1. Drawing

版本	标记	更改内容	签名	日期
V01		首次发行	李志恩	2024.04.15



技术要求:

- "*" 尺寸为重点尺寸,带"CPK"需要做CPK的尺寸,"()" 为实配尺寸,"△" 为设计变更;
- 要求焊点光滑无凸刺,无虚焊,堆锡,短路等现象;
- 图面尺寸用以检验外形功能和装配;
- 满足盐雾实验/附自力测试等相关可靠性测试,按我司内部可靠性试验标准执行;
- 所有物料均符合我司产品环境物质禁用管理标准。
- 包装按照工程提供的包装要求包装。

公差表

>200	± 0.20	ANGLES
100-200	± 0.15	
50-100	± 0.12	
10-50	± 0.10	± 1'
0-10	± 0.05	

序号	名称	料号	描述	用量
1	长轴距1号同轴天线	ANT9623021B05-09	L=379MM, 线径1.13MM, 黑色, IPEX一代端子	1
2	400 PCB天线	ANT9623021B05-09	FR4, T=1.0MM, 铜厚18um, 黑油, 60*12.15	1

名称	长轴距1号前机臂数图天线组件	设计	李志恩	日期	2024.04.15
料号	内部料号: ANT9623021B05-05 客户料号: 35-0324-400	RF	阳诗海	日期	2024.04.15
版本	V01	图框	A4	审核	刘峰
比例	FTT	第三视角		日期	2024.04.15
单位	mm				

深圳市安特通讯科技有限公司

2. Product specifications and technical parameters:

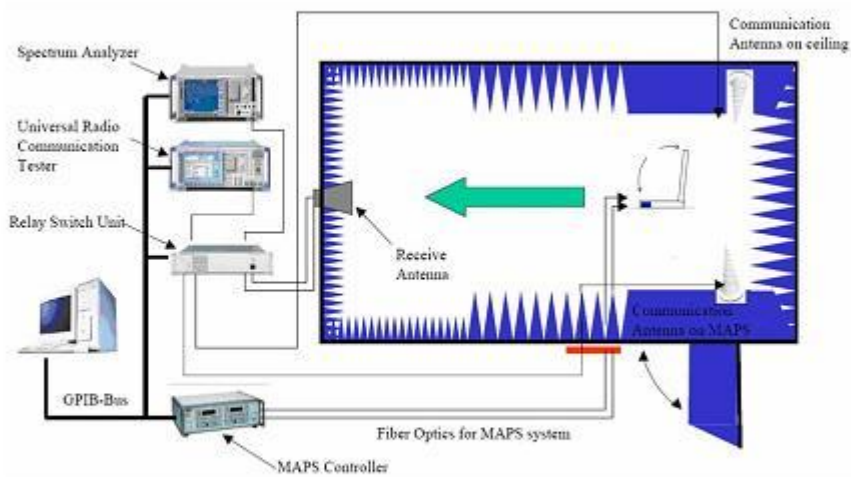
Electrical performance parameters	
Frequency range	2400~2500MHz, 5150-5850MHZ
Impedance	50 Ω
standing-wave ratio	≤3
Maximum gain	2.4G 1.4dBi, 5.8G 1.8dBi
efficiency	2.4G ≥47%, 5.8G ≥49%
Polarization mode	vertical
Radiation direction	Omnidirectional
mechanical parameters	
Antenna size	60*12.14*1MM
Coaxial line type	φ 1.13
Joint type	IPEX I
Salt spray test	24H
Environmental parameters	
operation temperature	-45℃--+85℃

3. Test equipment

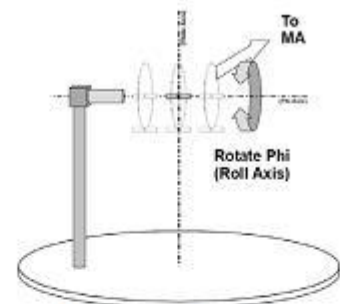
3.1. Agilent E5071C

3.2. CMW500 Agilent 8960

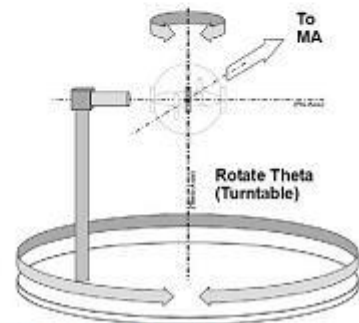
3.3. SATIMO-16 XH-24



(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test

4. Antenna testing parameters

S11



地址：深圳市光明新区马田街道新庄社区将富路 10 号同富汉海达工业园 A 栋 701

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深圳市安特通讯科技有限公司规格书

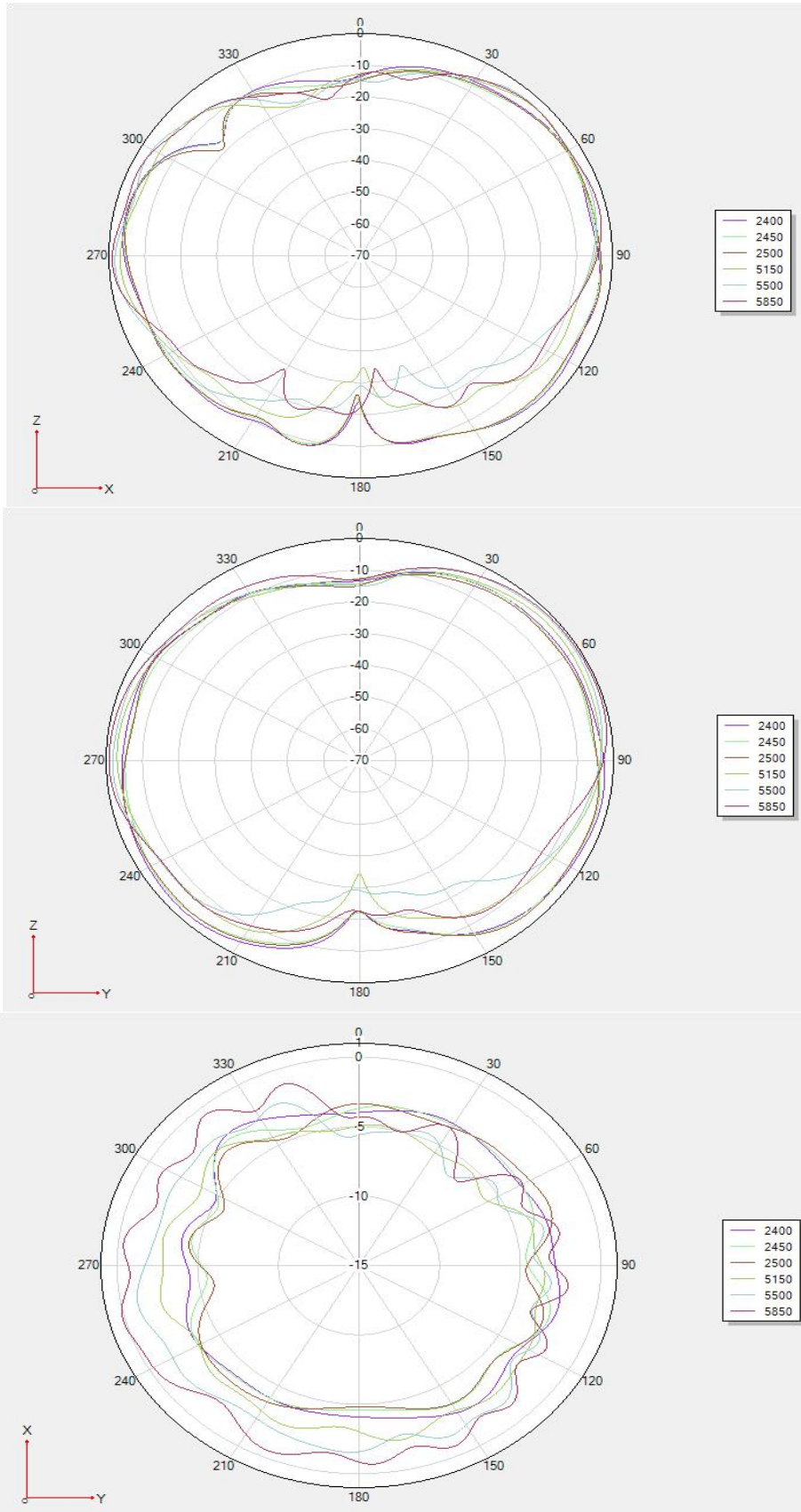
Passive efficiency of antenna

400			
Frequency/Mhz	Efficiency/dB	Efficiency	MaxGain/dBi
2400	-2.83	52.1%	0.68
2410	-2.74	53.2%	-0.18
2420	-2.67	54.1%	0.63
2430	-2.46	56.8%	-0.23
2440	-2.61	54.9%	0.54
2450	-2.72	53.4%	0.12
2460	-2.99	50.2%	0.61
2470	-3.02	49.9%	0.81
2480	-2.84	52.0%	0.31
2490	-3.22	47.7%	1.42
2500	-3.20	47.9%	0.23
5150	-2.06	62.2%	-0.09
5200	-2.13	61.2%	-0.01
5250	-2.52	56.0%	0.21
5300	-2.52	56.0%	0.29
5350	-2.02	62.8%	1.12
5400	-2.33	58.5%	0.74
5450	-2.45	56.9%	0.31
5500	-3.08	49.2%	0.54
5550	-2.77	52.8%	1.16
5600	-2.84	52.0%	1.02
5650	-3.08	49.2%	0.94
5700	-2.58	55.2%	1.83
5750	-2.33	58.5%	1.22
5800	-2.70	53.7%	1.36
5850	-2.77	52.8%	1.19

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2D-Etotal

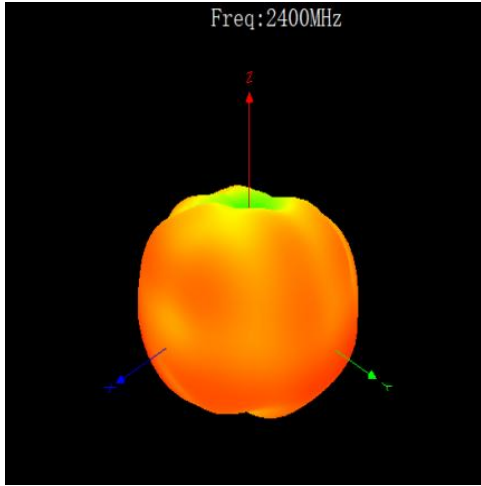


地址：深圳市光明新区马田街道新庄社区将富路 10 号同富汉海达工业园 A 栋 701

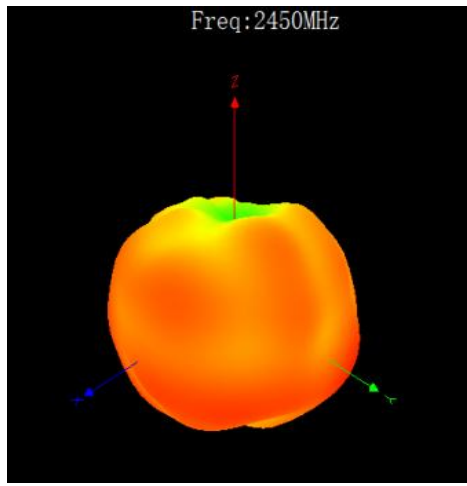
Address: 701, Building A, Tongfuhan Haida Industrial Park, No. 10 Jiangfu Road, Xinzhuang Community, Matian Street, Guangming New District, Shenzhen, China

3D-Etotal

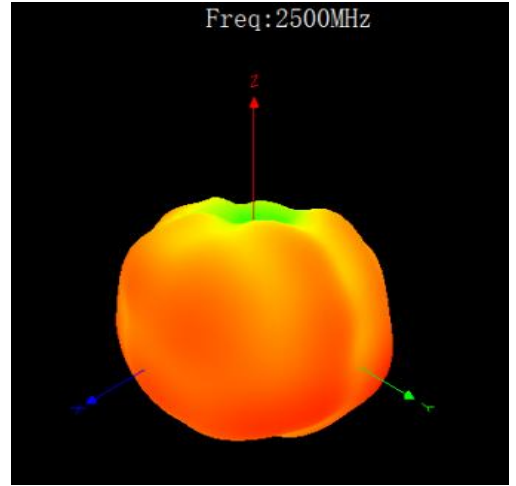
Freq:2400MHz



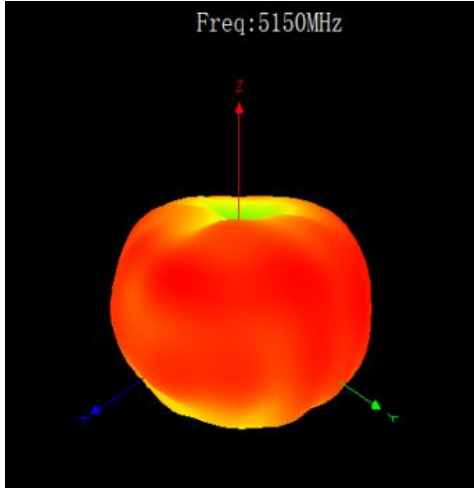
Freq:2450MHz



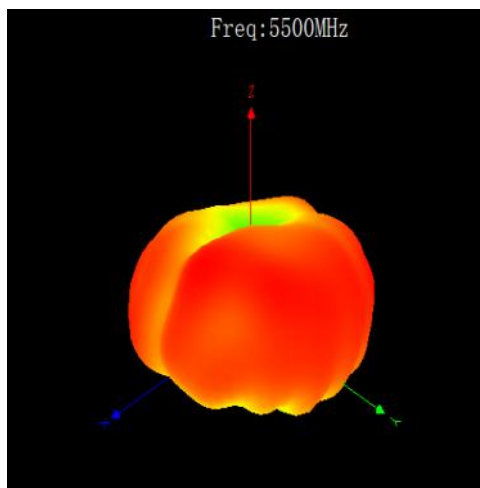
Freq:2500MHz



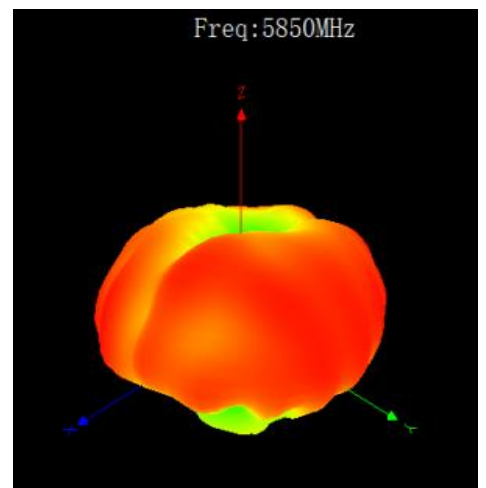
Freq:5150MHz



Freq:5500MHz



Freq:5850MHz



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深圳市安特通讯科技有限公司

Shenzhen ANT Communication Technology Co., LTD.

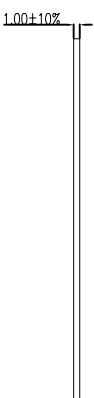
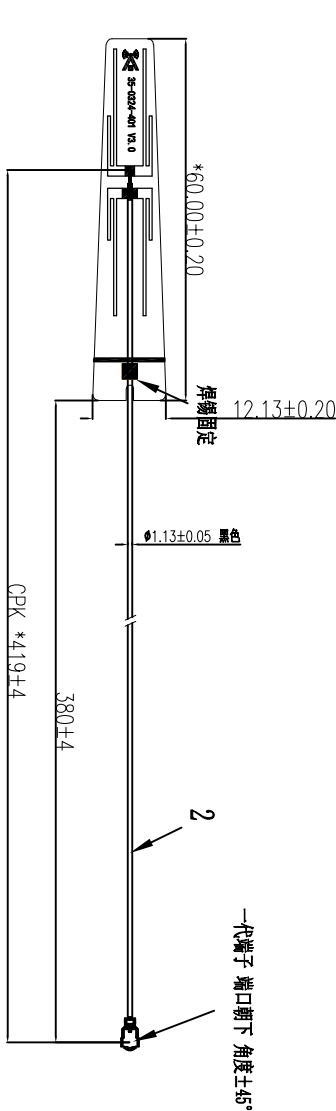
Product specification sheet

customer	普宙	project	S200
Customer part number	35-0324-401	Part number	ANT962302IB56-06
version	V1.0	describe	ipex1 代接头, 馈线长度 38CM, 线径 1.13mm, 天线尺寸异型, 放置于前脚架 L2
RF	阳诗海	ME	李志恩
technical manager	刘峰	date	2024/08/09

customer confirmation	
Does the assembly meet your company's requirements: <input type="checkbox"/> OK <input type="checkbox"/> NG	

1. Drawing

1	2	3	4	5	6	7	8	
				版本	标记	更改内容	签名	日期
				V01		首次发行	李志恩	2024.04.15



技术要求:

- “*” 尺寸为重点尺寸, 带“CK” 需要做CPK的尺寸, “()” 为实配尺寸, “△” 为设计变更;
- 要求焊点光滑无凸刺, 无虚焊, 堆锡, 短路等现象;
- 图面尺寸用以检验外形功能和装配, 满足盐雾实验/附自力测试等相关可靠性测试, 按我司内部可靠性试验标准执行, 所有物料均符合我司产品环境物质禁用管理标准。
- 包装按照工程提供的包装要求包装。

公差表

>200	± 0.20	ANGLES
100-200	± 0.15	
50-100	± 0.12	
10-50	± 0.10	
0-10	± 0.05	± 1'

序号	名称	料号	描述	用量
1	401 PCB天线	ANT9623021B05-10	FR4, T=1.0MM, 铜厚18um, 黑油, 60*8	1
2	长轴距2号同轴电缆	ANT9623021B28-06	L=419MM, 线径1.13MM, 黑色, IPEX一代端子	1
				1

机种	ANT962302		设计	李志恩	日期	2024.04.15
名称	长轴距2号前机臂数图天线组件		RF	阳诗海	日期	2024.04.15
料号	内部料号: ANT9623021B56-06 客户料号: 35-0324-401		审核	刘峰	日期	2024.04.15
版本	V01	图框	A4			
比例	FIT					
单位	mm	第三视角				

深圳市安特通讯科技有限公司

2. Product specifications and technical parameters:

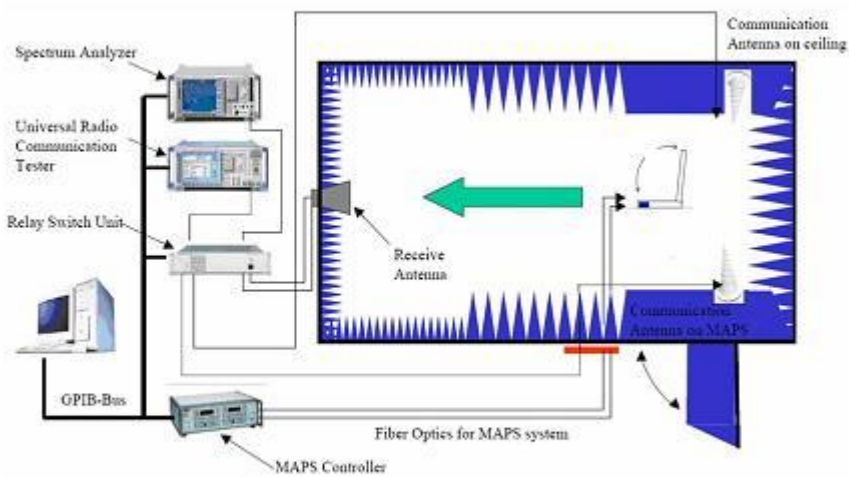
Electrical performance parameters	
Frequency range	2400~2500MHz, 5150-5850MHZ
Impedance	50 Ω
standing-wave ratio	≤3
Maximum gain	2.4G 0.7dBi, 5.8G 3.45dBi
efficiency	2.4G ≥42%, 5.8G ≥42%
Polarization mode	vertical
Radiation direction	Omnidirectional
mechanical parameters	
Antenna size	60*12.13*1MM
Coaxial line type	φ 1.13
Joint type	IPEX I
Salt spray test	24H
Environmental parameters	
operation temperature	-45℃--+85℃

3. Test equipment

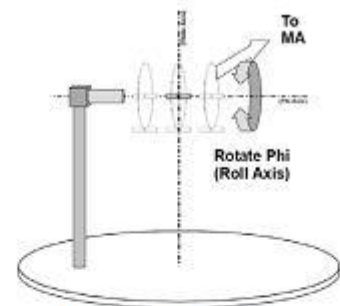
3.1. Agilent E5071C

3.2. CMW500 Agilent 8960

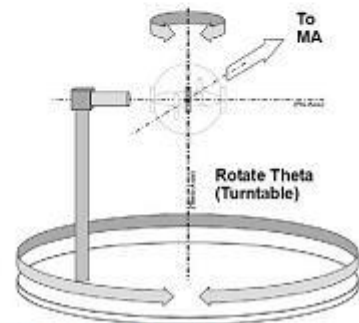
3.3. SATIMO-16 XH-24



(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test

4. Antenna testing parameters

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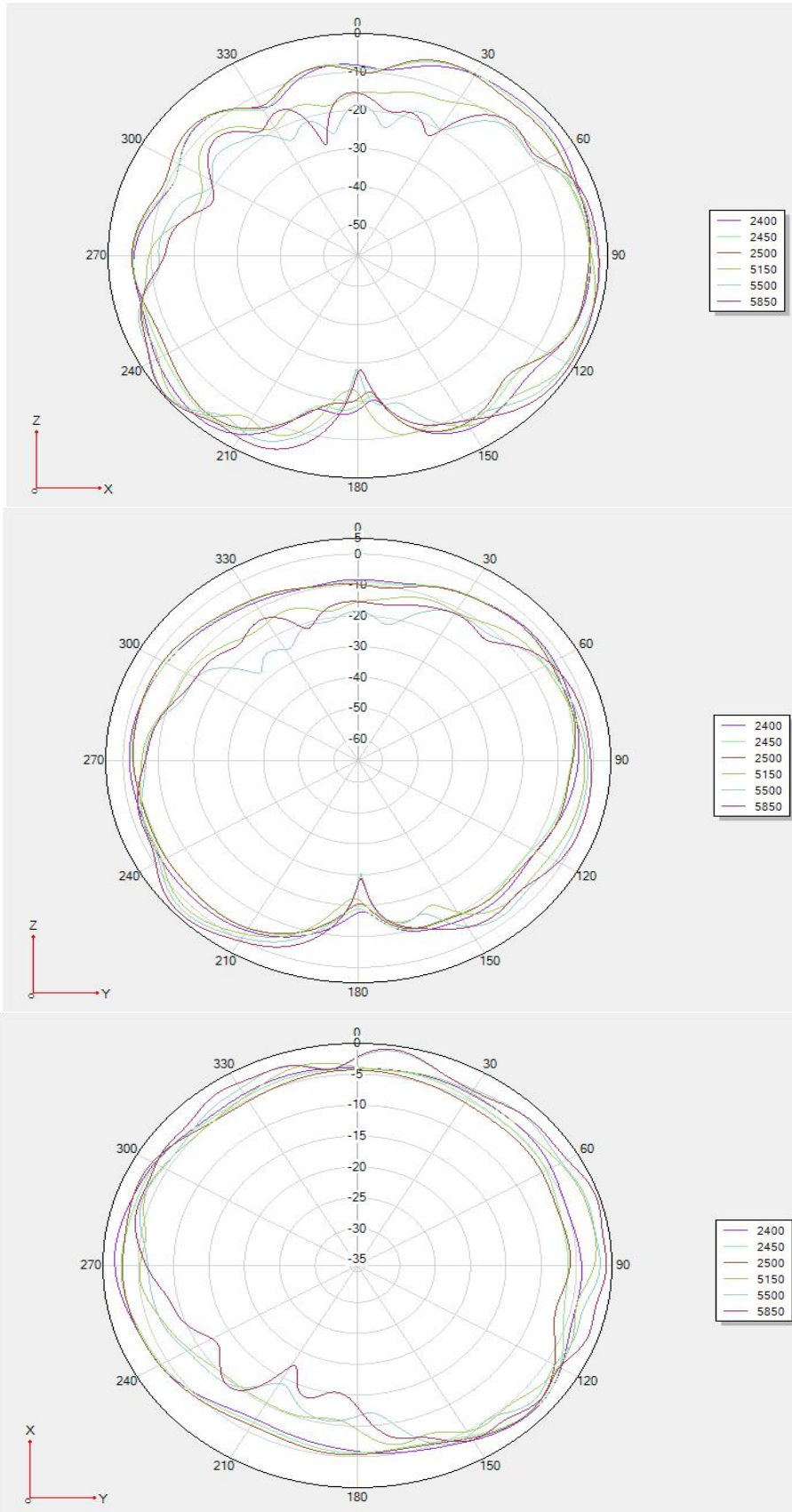
Passive efficiency of antenna

401			
Frequency/Mhz	Efficiency/dB	Efficiency	MaxGain/dBi
2400	-2.66	54.2%	0.04
2410	-2.59	55.1%	-0.13
2420	-2.99	50.2%	0.02
2430	-2.76	53.0%	-0.11
2440	-2.97	50.4%	0.26
2450	-3.09	49.1%	0.13
2460	-3.42	45.5%	0.7
2470	-3.43	45.4%	0.38
2480	-3.28	47.0%	0.62
2490	-3.71	42.5%	0.51
2500	-3.67	43.0%	0.29
5150	-1.96	63.7%	0.62
5200	-2.11	61.5%	0.55
5250	-2.51	56.1%	0.48
5300	-2.55	55.6%	0.85
5350	-1.99	63.2%	1.76
5400	-2.42	57.3%	1.19
5450	-2.60	55.0%	2.19
5500	-3.08	49.2%	1.82
5550	-2.54	55.7%	2.47
5600	-2.81	52.4%	2.28
5650	-3.72	42.5%	1.87
5700	-2.96	50.6%	3.45
5750	-2.54	55.7%	3.03
5800	-2.55	55.6%	3.35
5850	-2.18	60.5%	3.29

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2D-Etotal

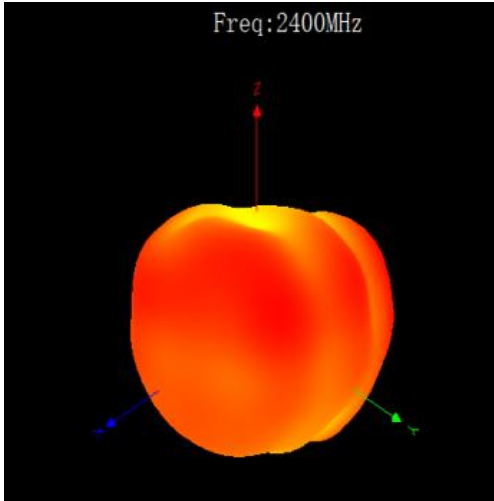


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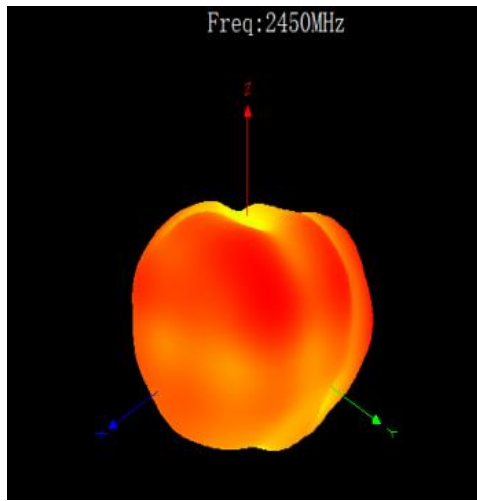
Address: 701, Building A, Tongfuhan Haida Industrial Park, No. 10 Jiangfu Road, Xinzhuang Community, Matian Street, Guangming New District, Shenzhen, China

3D-Etotal

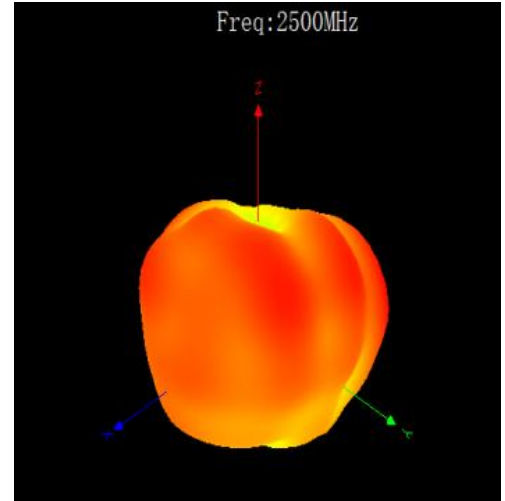
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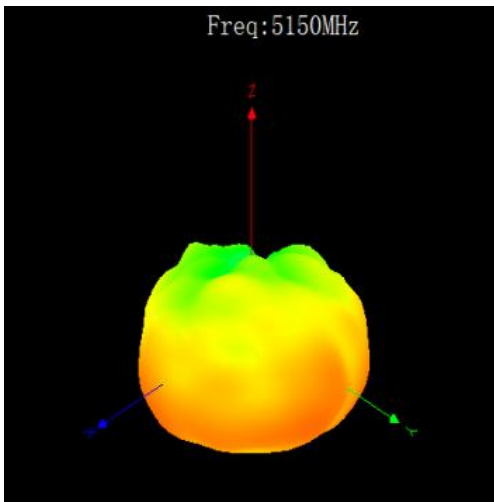
Freq:2450MHz



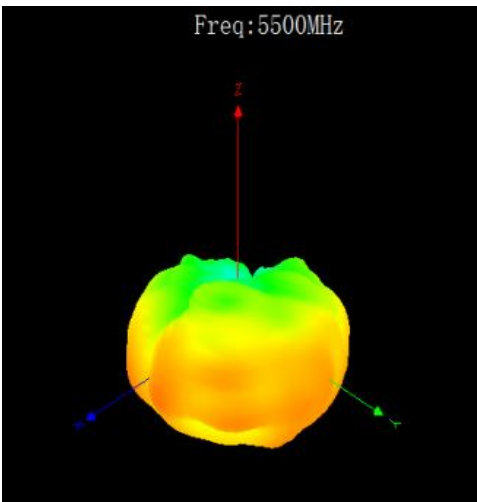
Freq:2500MHz



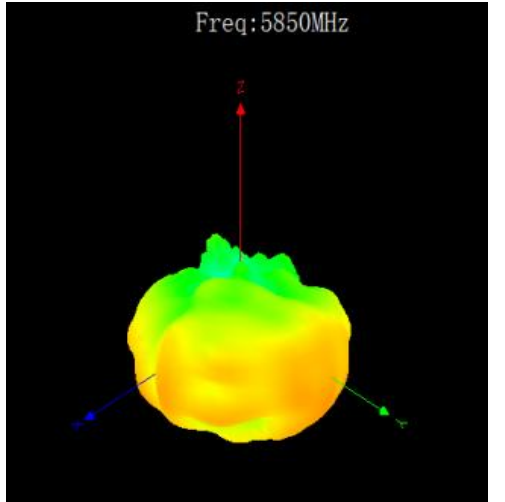
Freq:5150MHz



Freq:5500MHz



Freq:5850MHz



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