



Shenzhen Yingfeng Antenna Technology Co., Limited

iGLass 3S Test Report

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Product	Glasses
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Date	2024-5-9
Editor	Amy



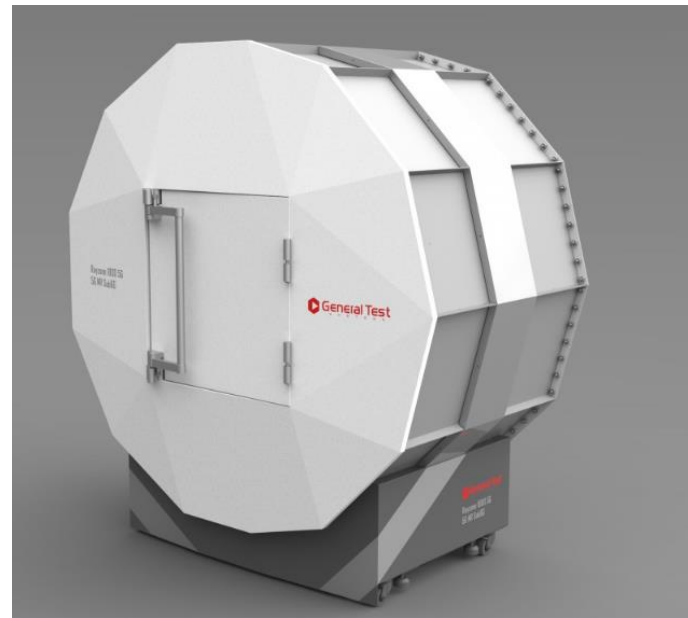
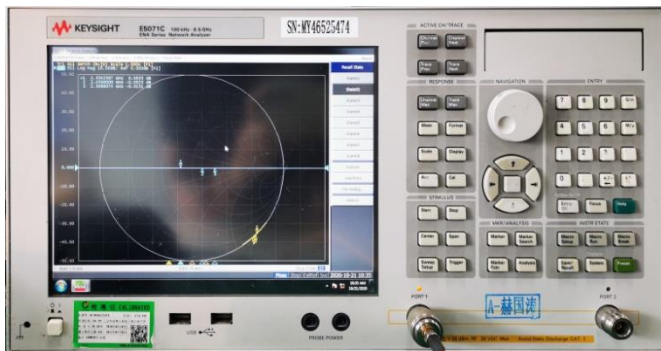
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Test Equipment

- 1. S parameter measurement
- 2. Equipment: Network analyzer (Agilent E5062A), Microwave darkroom, MT8852B
- 3. Items: Impedance, Return Loss, VSWR, Efficiency, Gain, Radiated Field Pattern, Sensitivity, Power, Frequency Bias Active Data TRP TIS



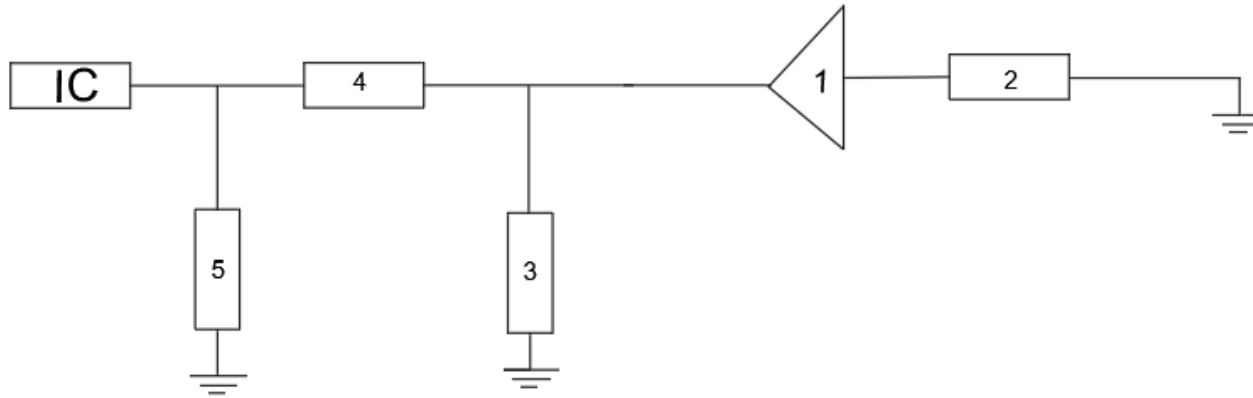


Sample Appearance





Matching parameters (LR is same)

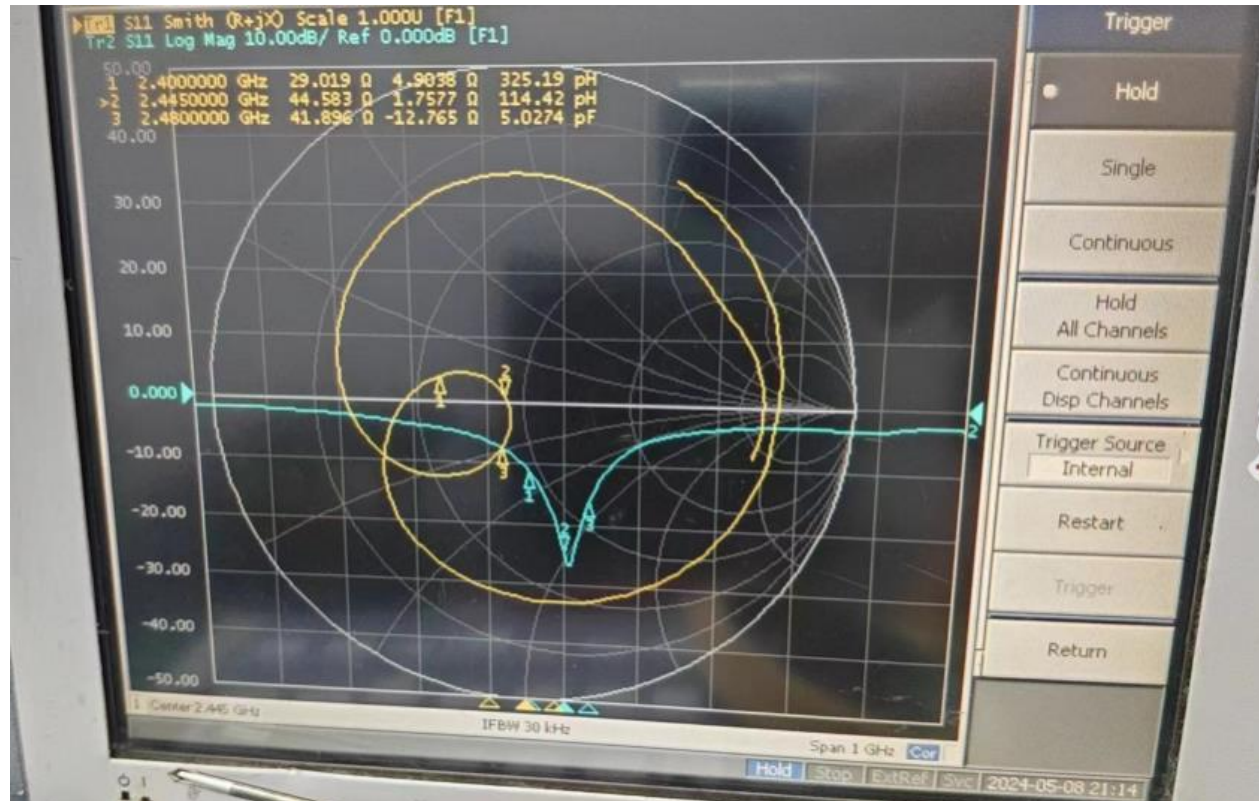


No.	Model	SPEC	Manufacturer	Material number	Tolerance	
1	YF3216H1	3216	YingFeng	YF3216H1X2G45		
2	Capacitors	3. 3PF/0201	Murata		±0. 1PF	
3	Capacitors	1. 2PF/0201	Murata		±0. 1PF	
4	Resistor	0Ω				
5	NC					



S-parameters of antenna for net debugging

Debugging waveform





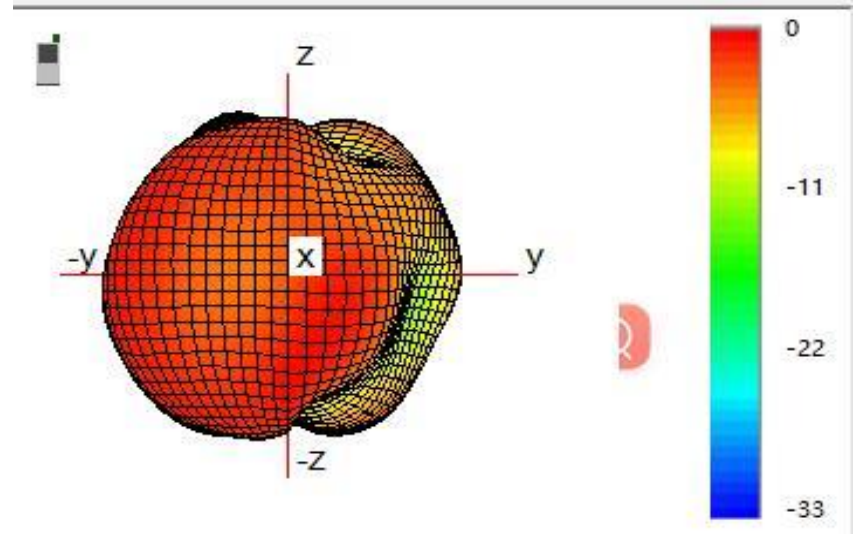
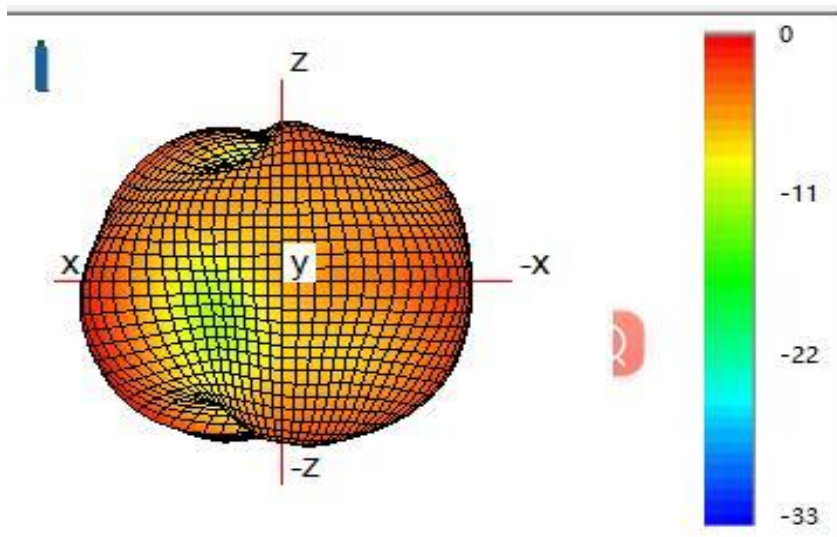
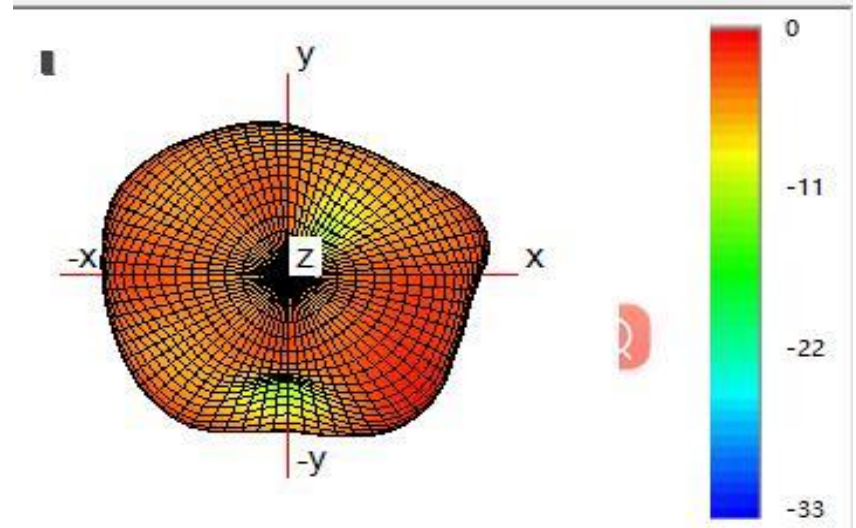
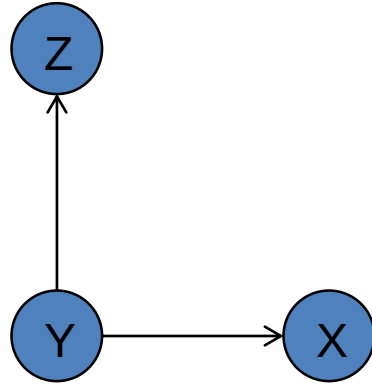
Overall free-field passive efficiencyFree field
passive efficiency of the complete machine

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-0.026738673	-3.66617294	42.99151067
2410	0.051371439	-3.654081763	43.11136996
2420	-0.013640627	-3.737510344	42.29109847
2430	0.028310397	-3.776862336	41.90962418
2440	0.095623047	-3.672424942	42.92966562
2450	0.074278762	-3.799144254	41.69515327
2460	-0.174579544	-4.092219179	38.97427832
2470	-0.095511906	-4.143471333	38.51703664
2480	-0.158392885	-4.195481642	38.05851475
2490	-0.327753498	-4.483395756	35.61725326
2500	-0.645252482	-4.678760664	34.0505345



Complete machine free field passive field type

Field pattern diagram



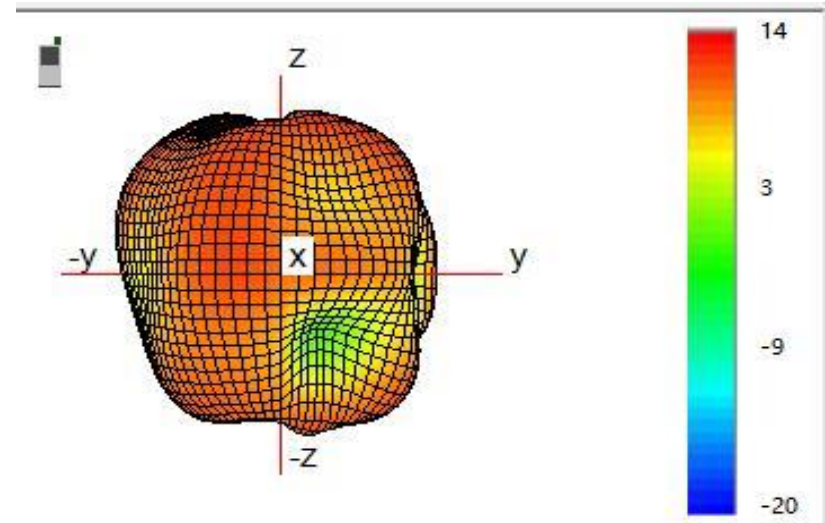
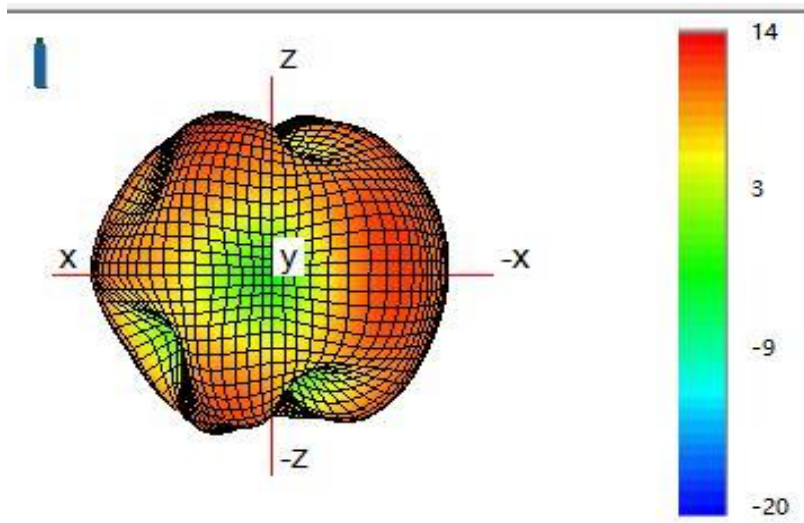
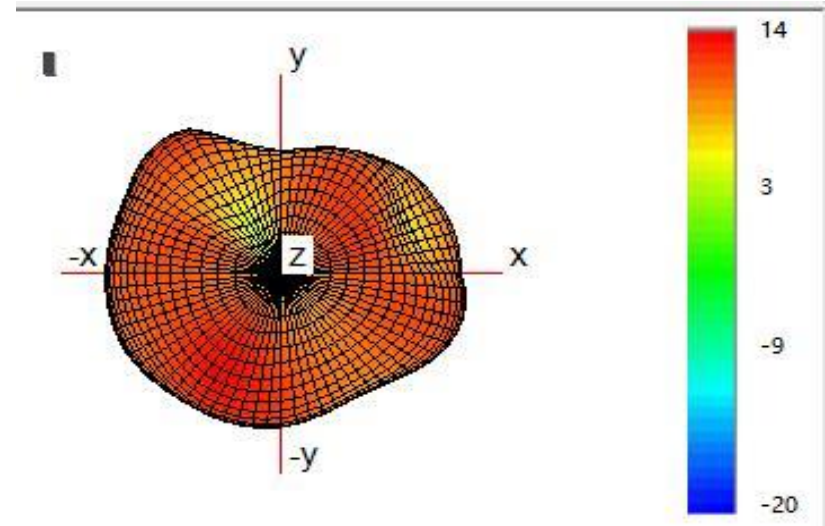
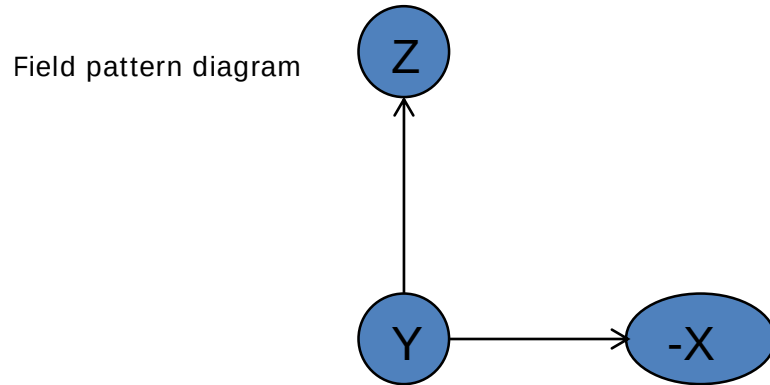


Complete machine free-field OTA data

	Channel	TRP Power (dBm)	TIS sensitivity (dBm)
	CH 0	9.49	-92.77
	CH 39	9.41	-92.62
	CH 78	9.79	-92.37



Complete machine free field OTA field type





Distance test

a. Environment/Mobile Phone

Test Item	Test Distance			Pocket test Requirements (Please state the following Eye test distance)		Remark
SamsungS8	3m	Low	☐	Right-front	OK	
	15m	Mid	☐	Left-front	OK	
	22m	High	☒	Right-back	OK	
				Left-back	OK	



Shenzhen Yingfeng Antenna Technology
Co., Limited

Thanks for Your Attention

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