



Shenzhen Yingfeng antenna technology Co., LTD

S5199 Antenna

Guesthouse	Hai Lingwei
product	headset
engineer	Simon
telephone	18118726256
Mail box	lyg@yingfengtianxian.com
Day period	2025-04-11
editor	Andy J

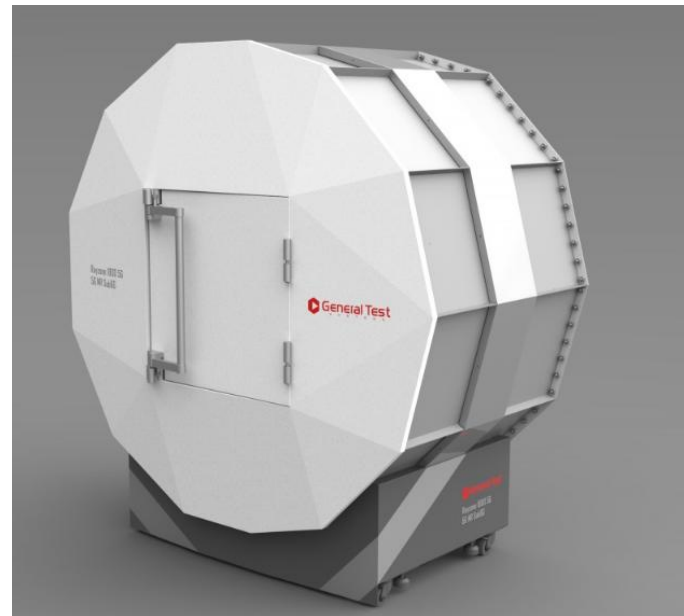
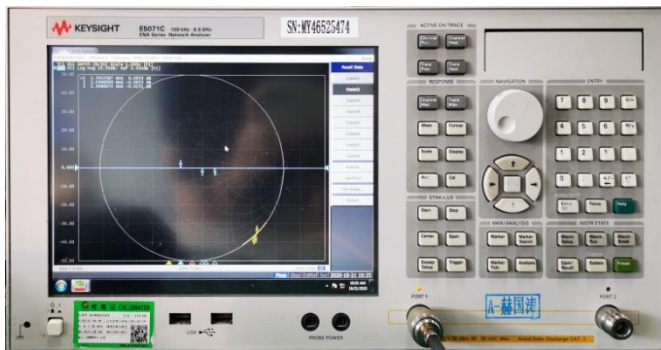


- Test equipment
- Prototype appearance
- matching parameter
- Free field passive efficiency of the whole machine
- Complete free field passive field type
- Complete machine free field OTA data
- Complete free field OTA field type
- OTA data of machine head
- The whole head OTA field type
- Antenna manufacturer information



Test condition

- 1. Measurement of S parameters
- 2. Equipment: Network Analyzer (Agilent E5062A), microwave darkroom, MT8852B
- 3. Items: Impedance, return loss, VSWR, Efficiency, gain, radiation field pattern, Sensitivity, Power, frequency offset active data TRP TIS





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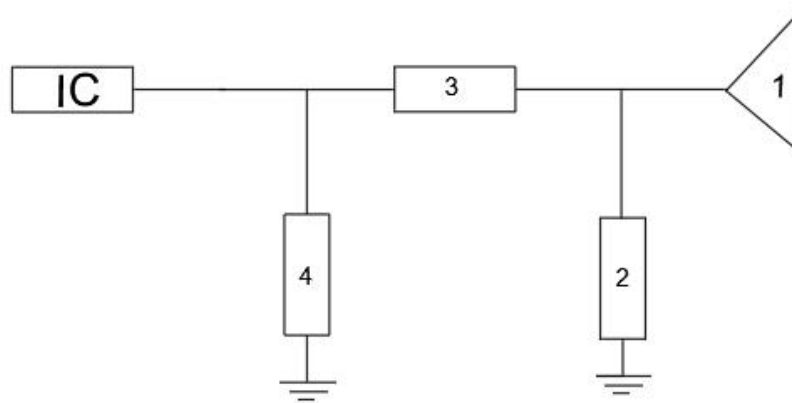
Prototype appearance





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matching parameter L

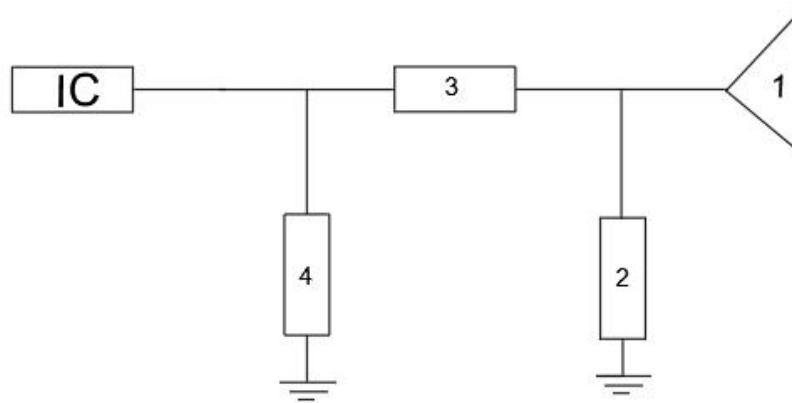


serial number	model	specification	manufacturer	object ID	tolerance	
1	S5199-L-V5		Yingfeng	S2B4BB1F1B00016		
2	NC					
3	capacitance	3.6PF/0201	Murata		$\pm 0.1\text{PF}$	
4	inductance	1.5NH/0201	Murata		$\pm 0.1\text{NH}$	



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matching parameter R



serial number	model	specification	manufacturer	object ID	tolerance	
1	S5199-R-V5		Yingfeng	S2B4BB1F1B00017		
2	NC					
3	capacitance	3.6PF/0201	Murata		$\pm 0.1\text{PF}$	
4	inductance	2.0NH/0201	Murata		$\pm 0.1\text{NH}$	



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Free field passive efficiency of the whole machine

L.

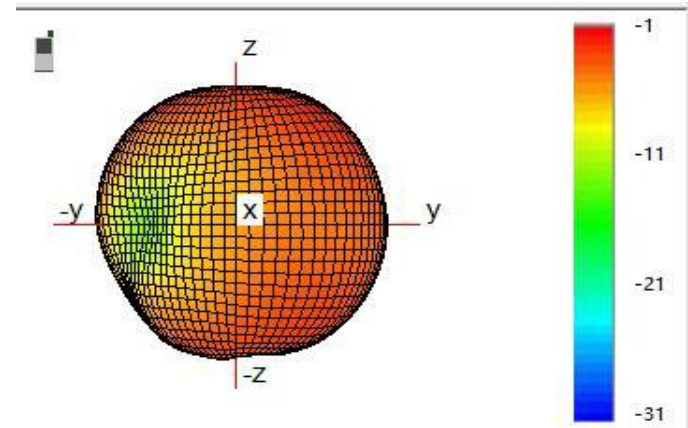
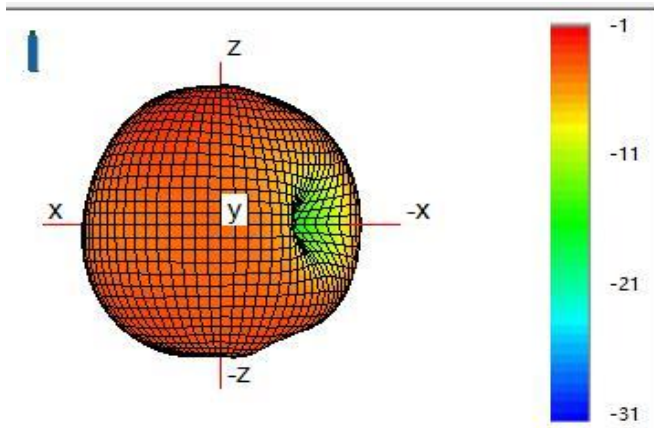
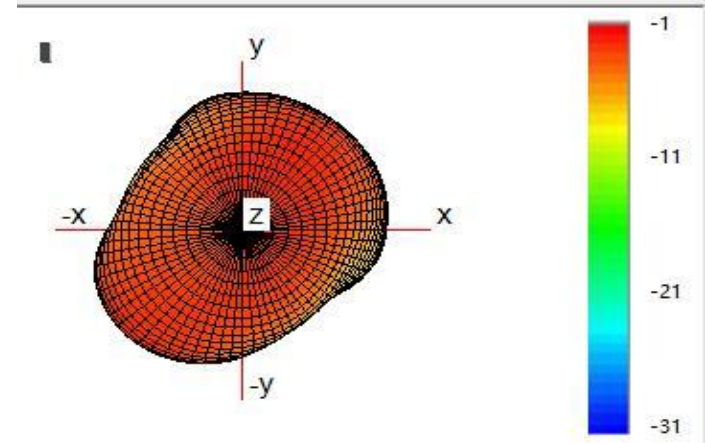
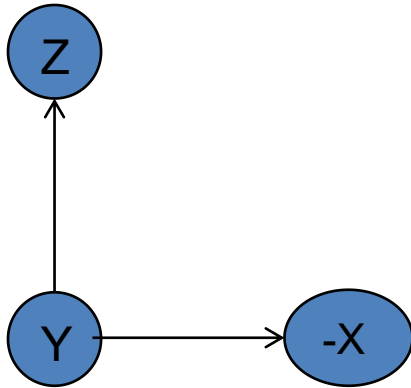
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	-2.443160232	-8.313398291	15.74552266
2410	-2.978039903	-7.8409773	16.44001729
2420	-2.540394843	-7.516316073	17.7161115
2430	-2.170521376	-7.274148453	18.73204337
2440	-2.646221091	-6.921558872	18.31627641
2450	-2.431126208	-6.8195371	19.79918367
2460	-2.485747964	-6.982645593	18.03251334
2470	-2.196385072	-6.891725448	18.45631747
2480	-2.028603604	-6.916615566	19.33941433



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Complete free field passive field type

L.





Free field passive efficiency of the whole machine

R.

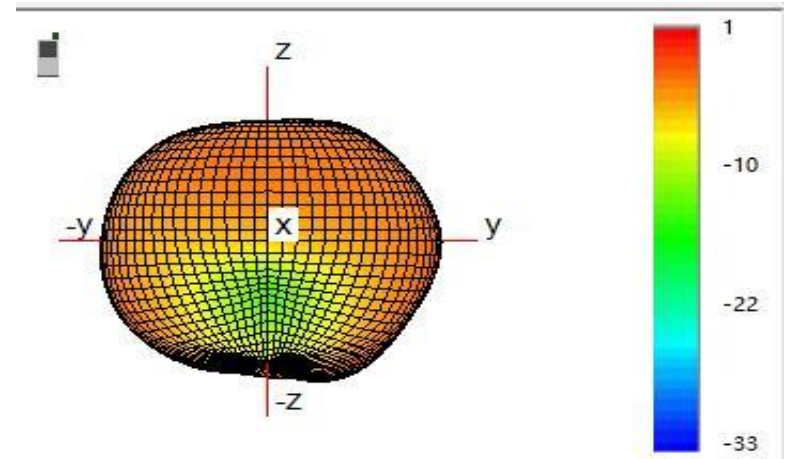
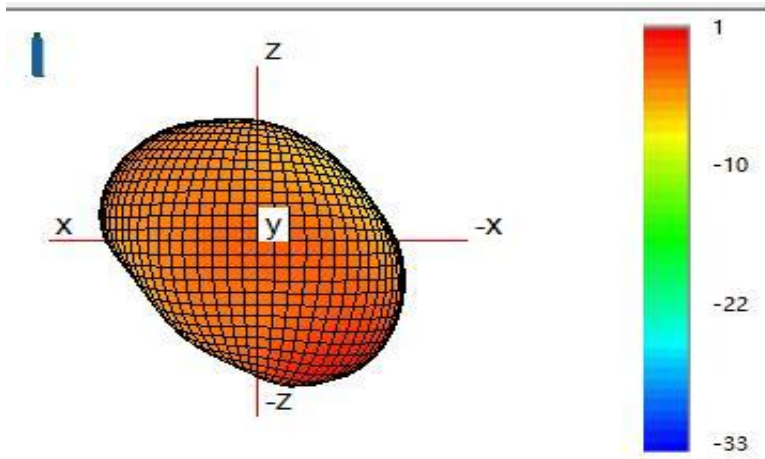
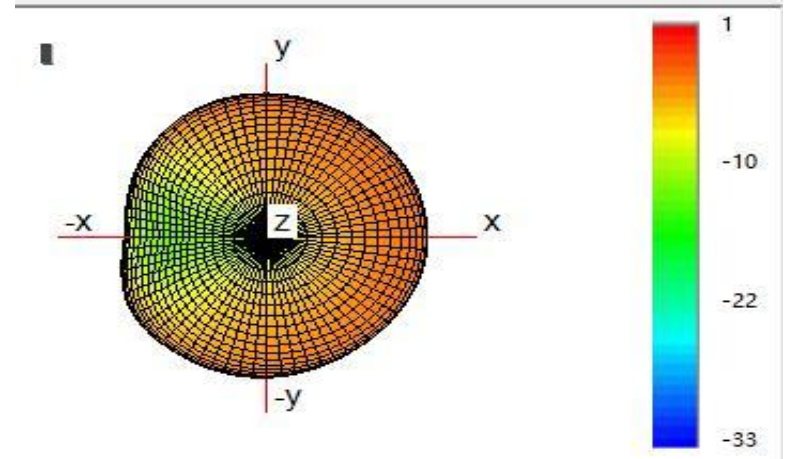
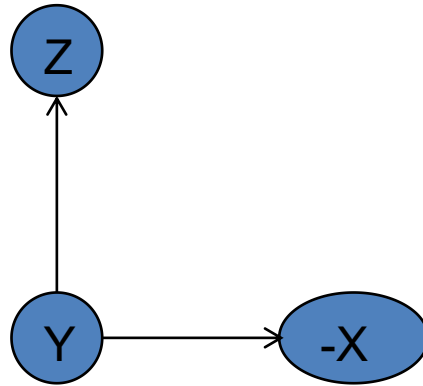
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	-2.967932896	-7.625850879	17.27487494
2410	-2.785800051	-7.371146225	18.31830887
2420	-2.758658926	-7.23648527	18.89519912
2430	-2.67759789	-7.151146044	19.27016333
2440	-2.634078618	-6.971968307	20.08182459
2450	-2.750055147	-7.082855465	19.57557166
2460	-2.028233719	-7.427871189	18.08060178
2470	-2.002214931	-7.523405105	17.68721641
2480	-2.049549741	-7.697993673	18.99028378



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Complete free field passive field type

R.





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Complete machine free field OTA data

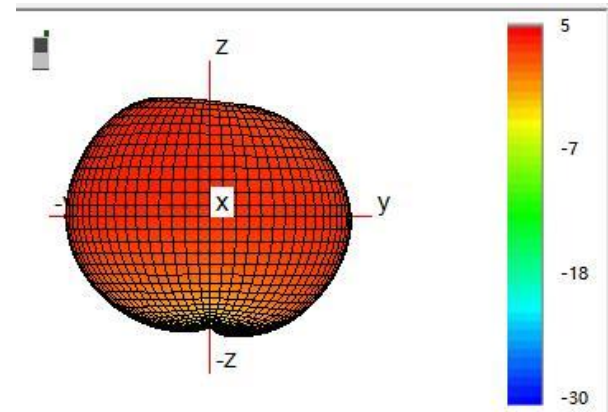
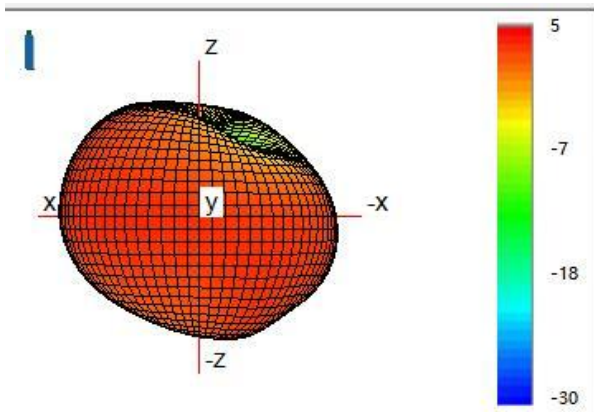
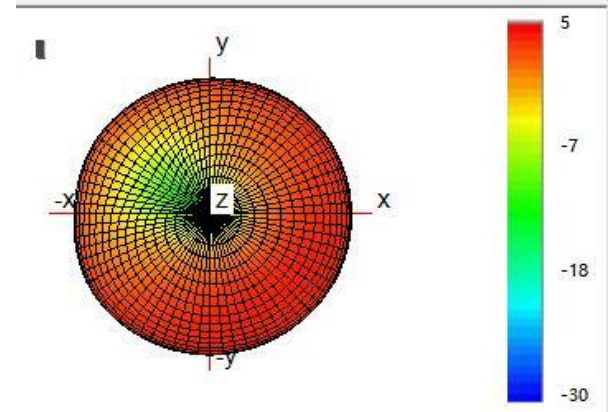
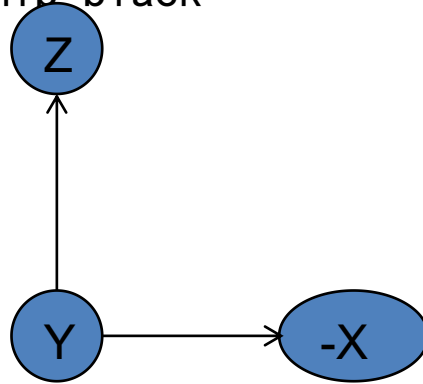
Decorative chip black	Channel	TRP (dBm)	TIS (dBm)
L	CH0	1.13452334	-86.2278201
	CH39	2.06433842	-86.7634333
	CH78	4.27439344	-87.1937424

Decorative chip black	Channel	TRP (dBm)	TIS (dBm)
R	CH0	2.06436325	-86.7563524
	CH39	4.75341248	-87.3745638
	CH78	6.08342421	-87.1778631



Complete free field OTA field type

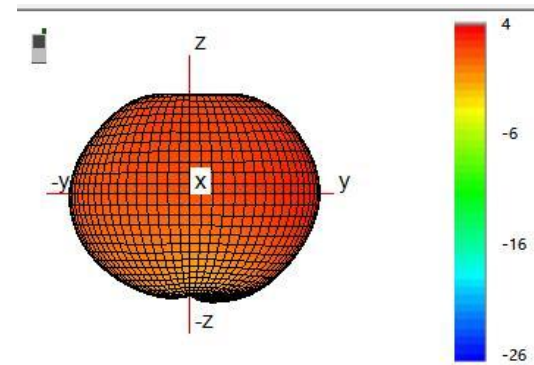
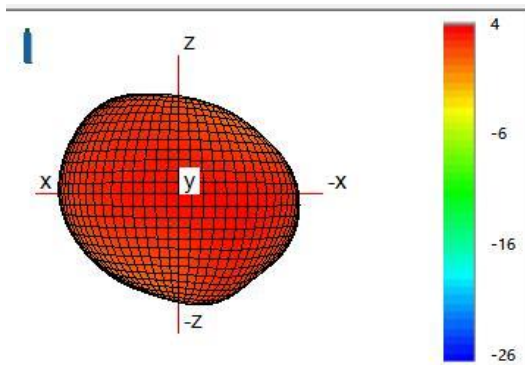
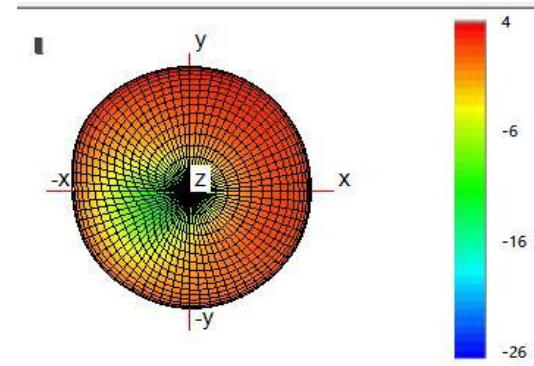
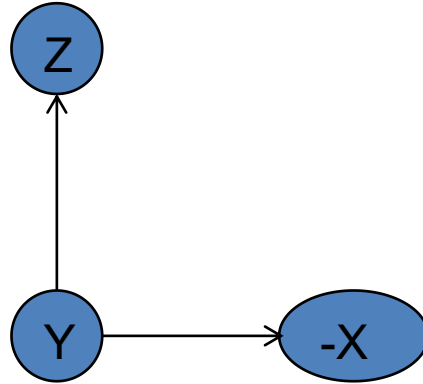
L. Decorative chip black





Complete free field OTA field type

R. Decorative chip black





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Complete machine free field OTA data

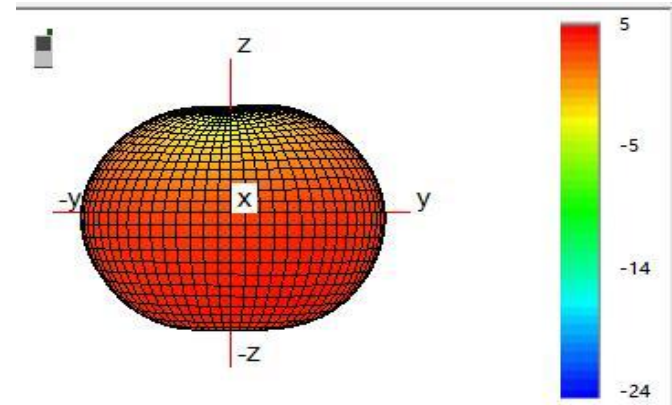
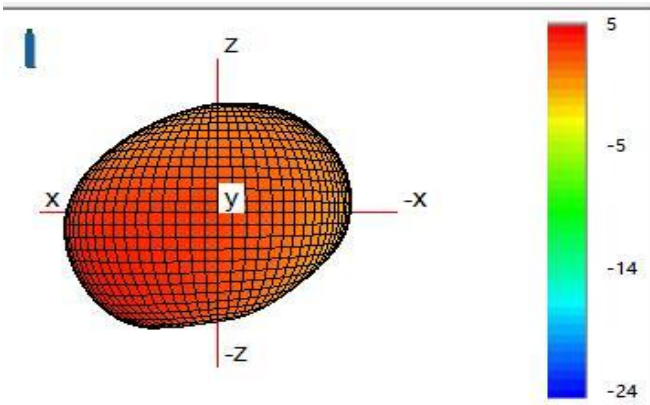
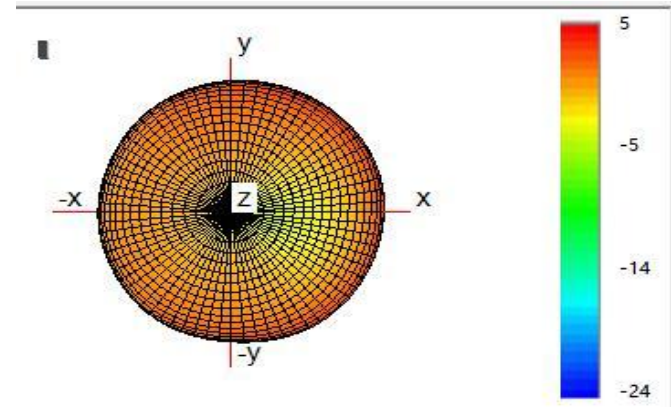
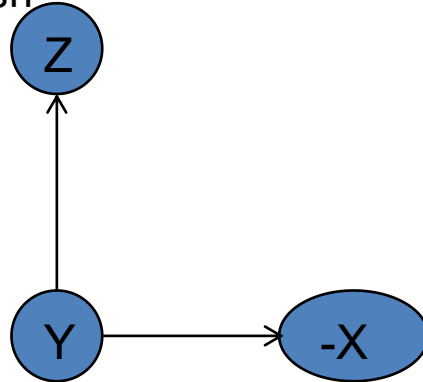
Decorative ash	Channel	TRP (dBm)	TIS (dBm)
L	CH0	1.55165462	-84.095766
	CH39	3.17867822	-87.4545752
	CH78	4.54674524	-89.2948678

Decorative ash	Channel	TRP (dBm)	TIS (dBm)
R	CH0	-0.0952722	-86.36745723
	CH39	2.22762125	-87.39786752
	CH78	4.63652522	-87.9078967



Complete free field OTA field type

L. Decorative ash

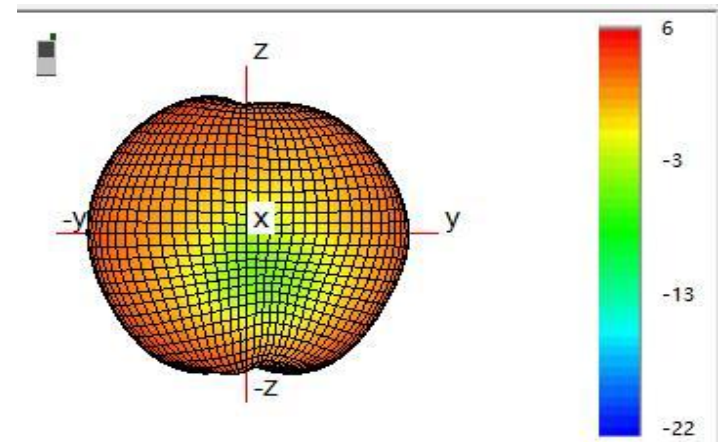
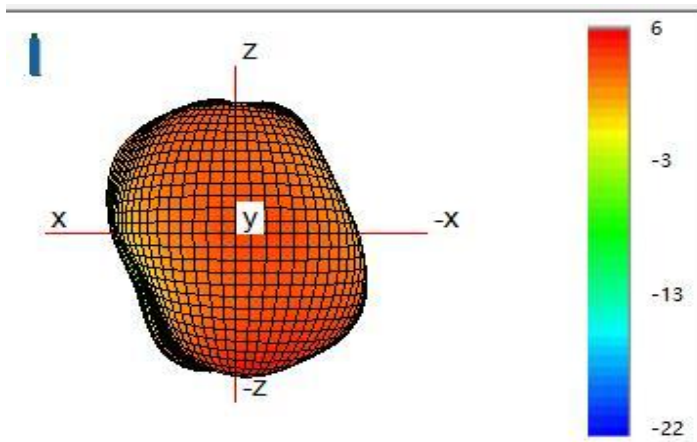
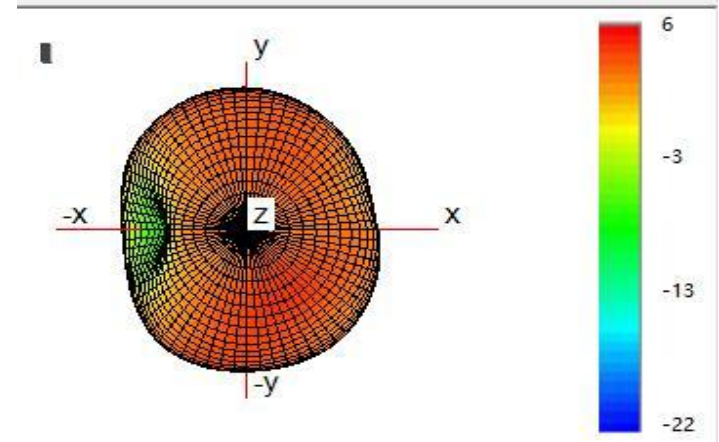
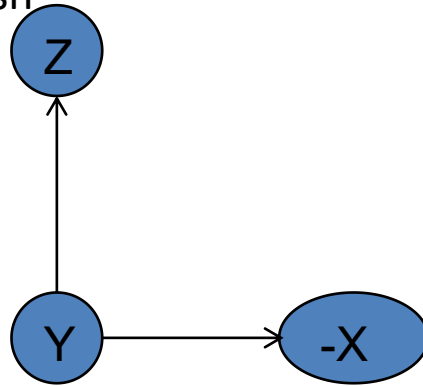




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Complete free field OTA field type

R. Decorative ash





OTA data of machine head

Decorative chip black	Channel	TRP (dBm)	TIS (dBm)
L	CH0	-3.310215222	-80.98882761
	CH39	-1.424387672	-81.37085877
	CH78	-0.047735419	-81.2914024

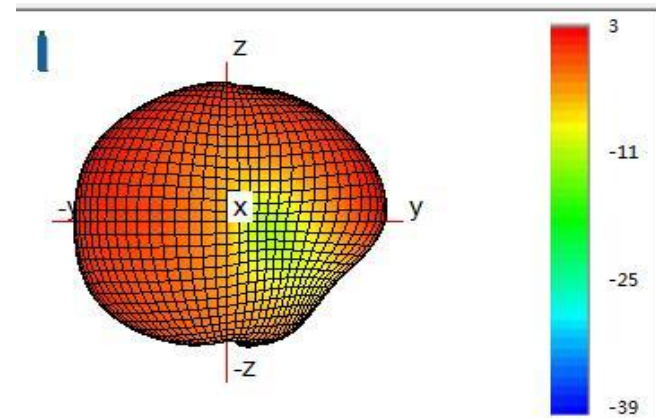
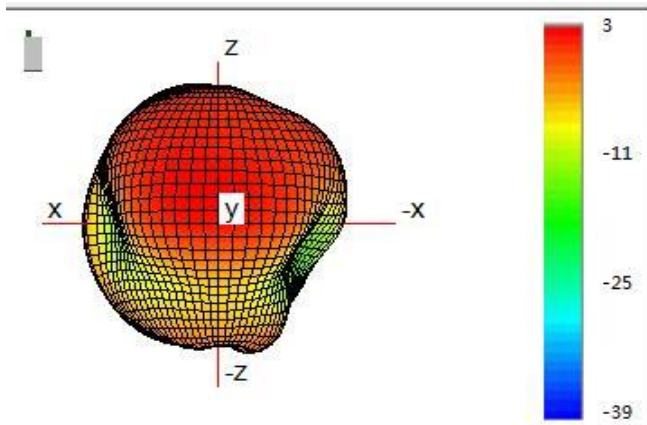
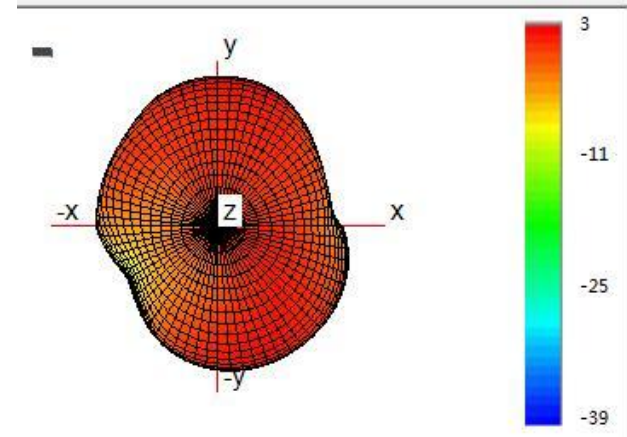
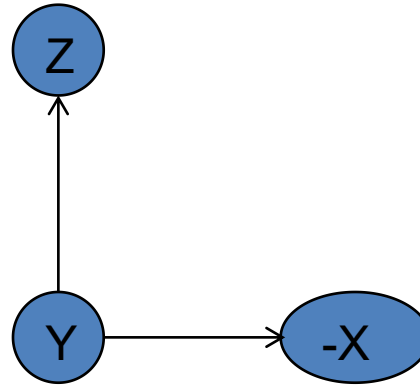
Decorative chip black	Channel	TRP (dBm)	TIS (dBm)
R	CH0	-1.815552825	-81.91620766
	CH39	-0.122896793	-81.78188915
	CH78	0.230379779	-81.2332196



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The whole head OTA field type

L.Decorative chip black

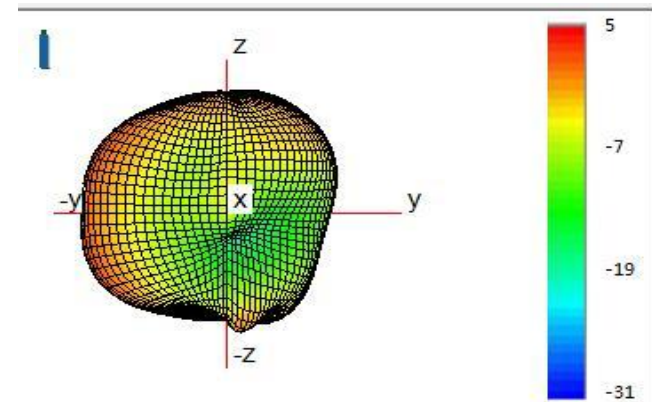
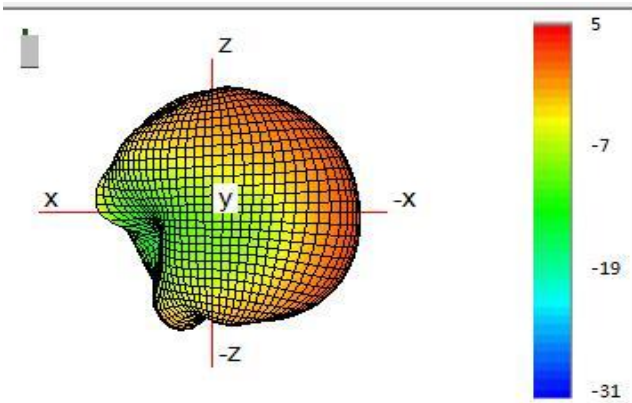
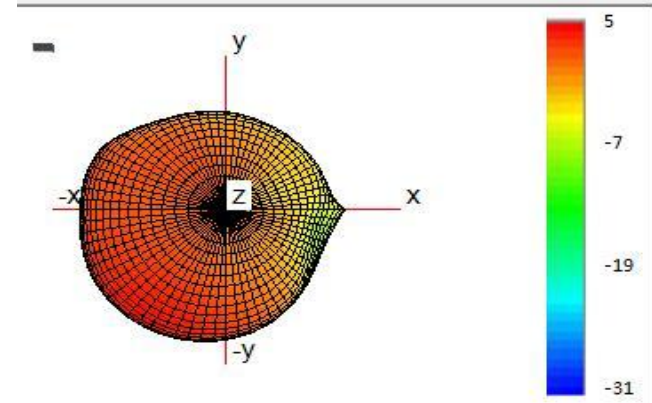
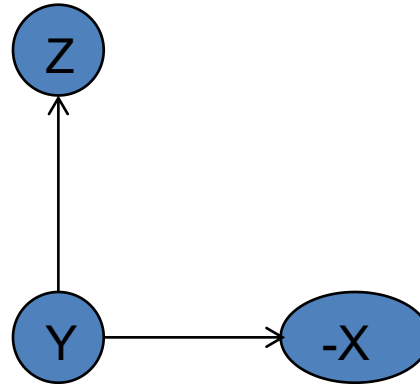




Shenzhen Yingfeng antenna technology Co., LTD

The whole head OTA field type

R. Decorative chip black





OTA data of machine head

Decorative ash	Channel	TRP (dBm)	TIS (dBm)
L	CH0	-1.92566347	-80.44801941
	CH39	-0.706057302	-82.65995864
	CH78	0.451825684	-82.9408445

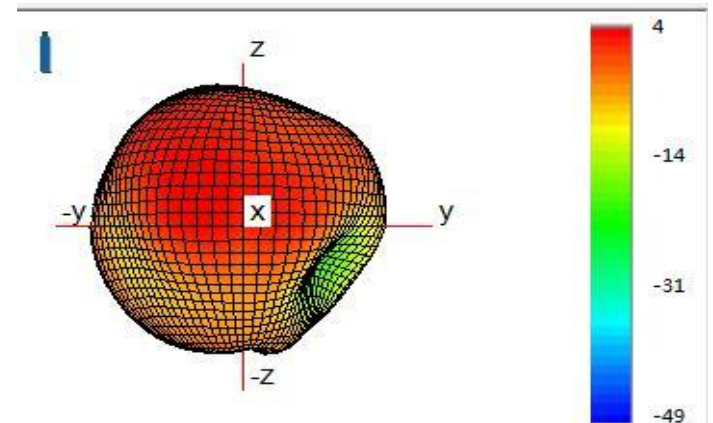
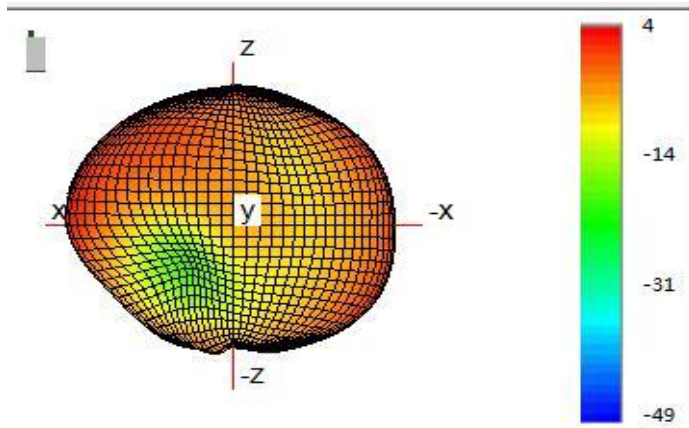
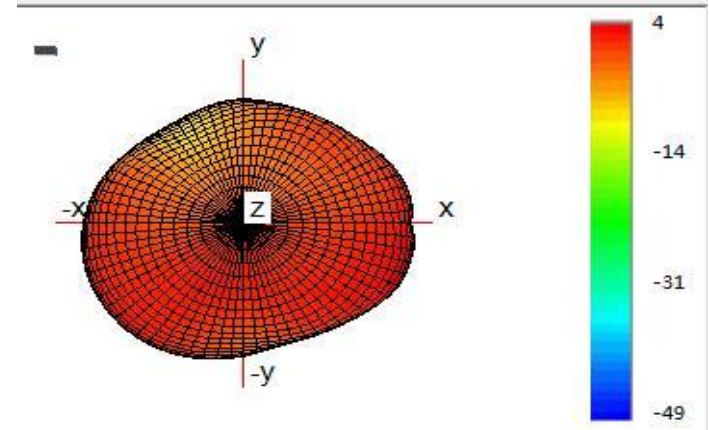
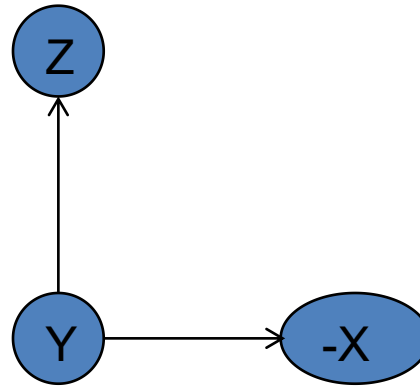
Decorative ash	Channel	TRP (dBm)	TIS (dBm)
R	CH0	-3.28289384	-80.71983229
	CH39	-1.537886115	-81.08786833
	CH78	-0.40244985	-80.43563797



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The whole head OTA field type

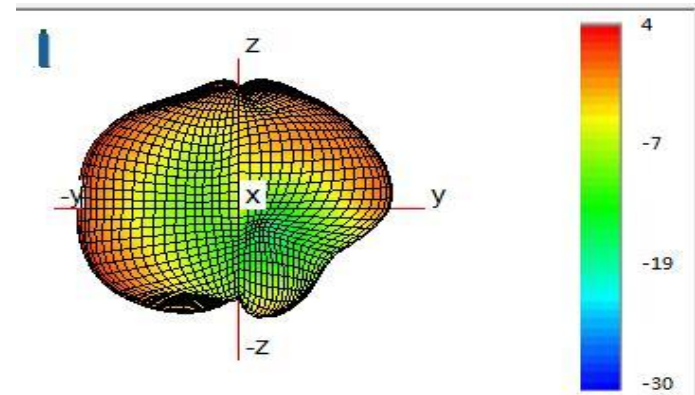
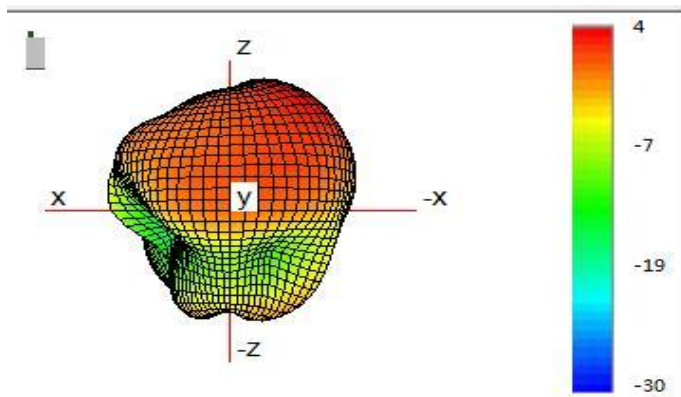
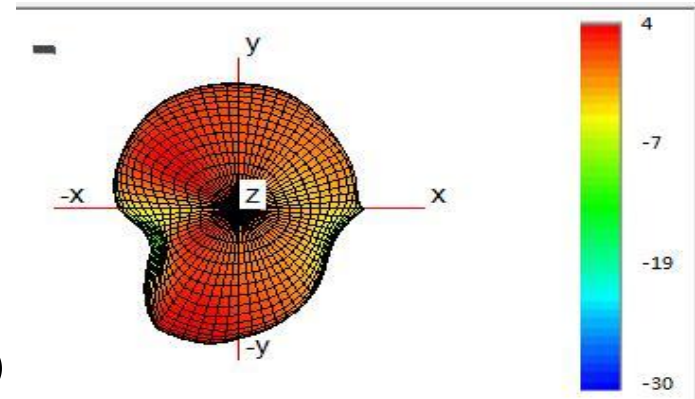
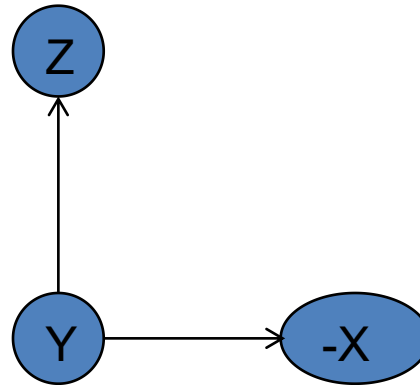
L. Decorative ash





The whole head OTA field type

R. Decorative ash





Shenzhen Yingfeng antenna technology Co., LTD

Antenna manufacturer information

company name	Shenzhen Yingfeng antenna technology Co, LTD
company address	Room 412, Building 7, Yungu Phase II, No. 2, Pingshan Road, Taoyuan Street, Nanshan District, Shenzhen
linkman, contacts	Simon
phone number of the contact	18118726256



Shenzhen Yingfeng antenna technology Co., LTD

Thanks for Your Attention