



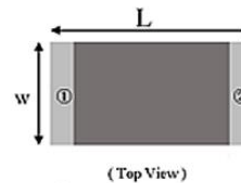
Antenna information

Antenna Dimensions

Applications

1. Bluetooth
2. Wireless LAN
3. ISM band 2.4GHz wireless applications

Dimensions (Unit: mm)



(Top View)



(Bottom View)

Number	Terminal Name
①	INPUT
②	NC



(Side View)

Symbols	L	W	T	A
Dimensions	1.60 ± 0.20	0.80 ± 0.20	0.5 ± 0.20	0.30 ± 0.10



Network debugging antenna S parameter

Debug waveform



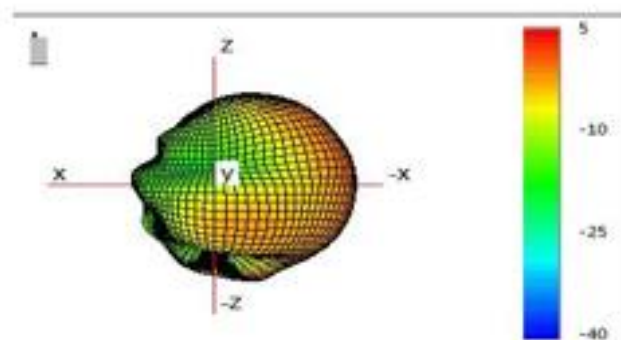
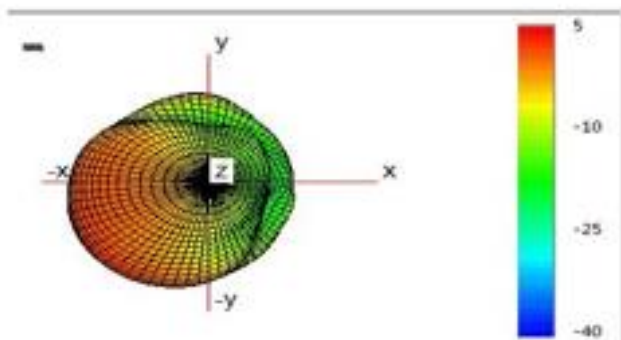
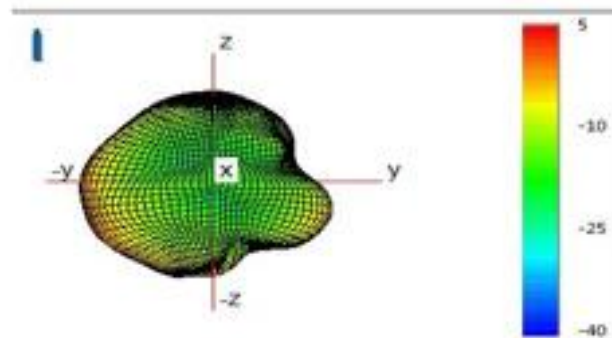
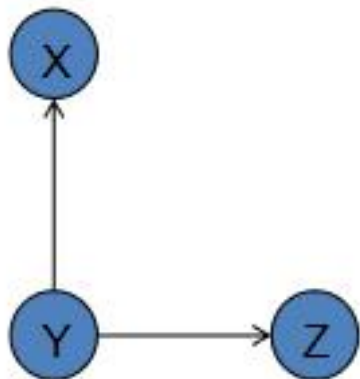


Efficiency and gain of antenna on simulated human head

LabSOCS			
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	3.526178935	-4.799684393	33.11551861
2410	3.58488467	-4.689804492	33.9640562
2420	3.656920246	-4.646133969	34.30730496
2430	3.776153058	-4.561718668	34.98067079
2440	3.750361741	-4.626823487	34.46018871
2450	3.655032387	-4.761320297	33.4093457
2460	3.499154149	-4.95480343	31.9535899
2470	3.292665906	-5.176824933	30.36110031
2480	3.088750927	-5.397653329	28.85590285
2490	2.761510054	-5.729737039	26.73168262
2500	2.509622706	-5.966118512	25.31559556
AVG	3.372839525	-5.028238413	31.5868142

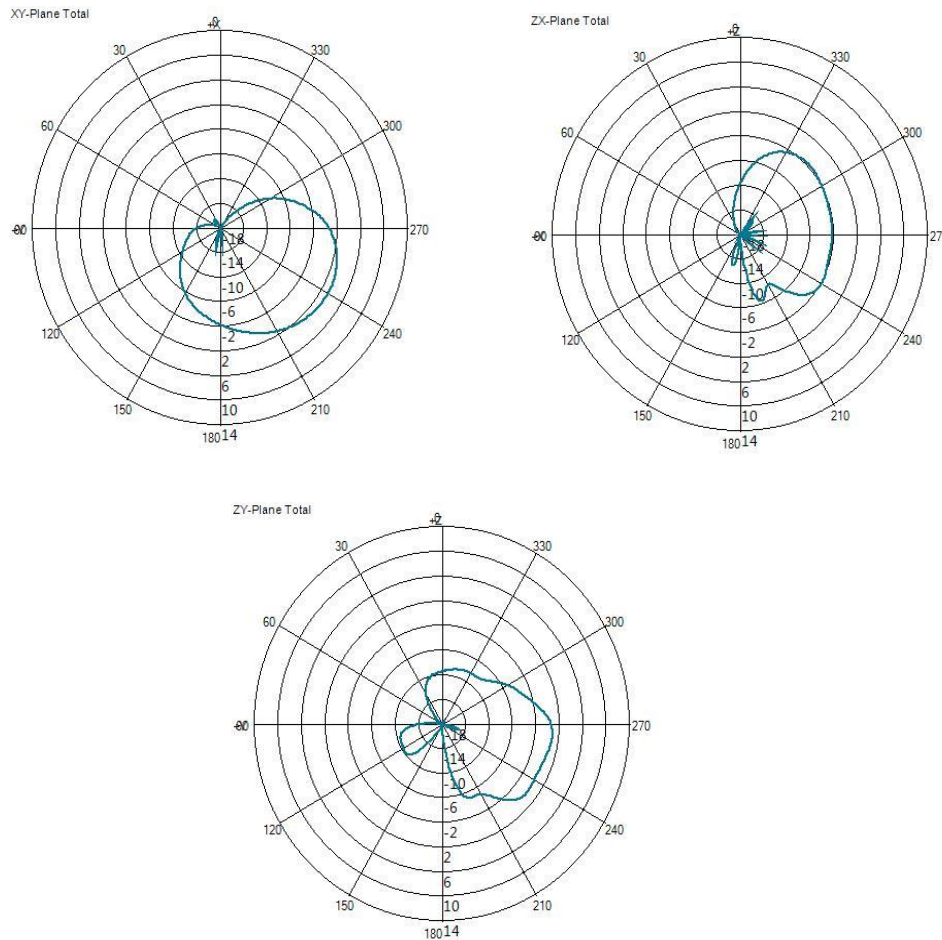


Passive 3D directional map





Sky Line passive 2D direction map



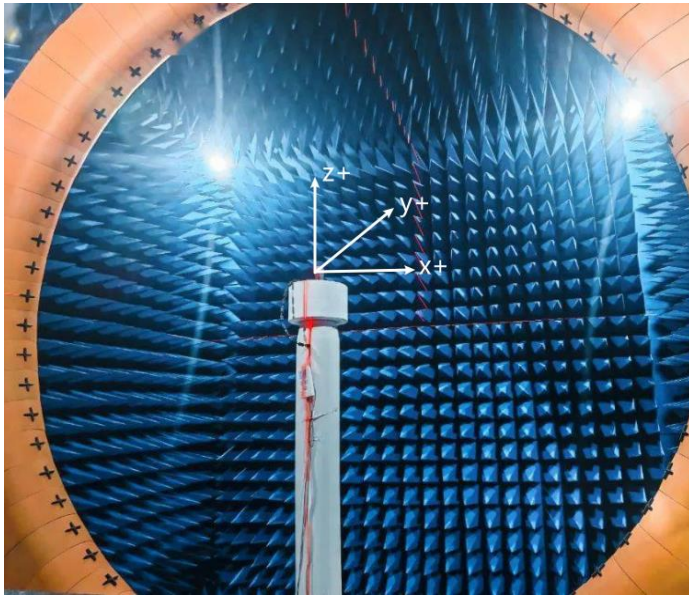


OTA active test data

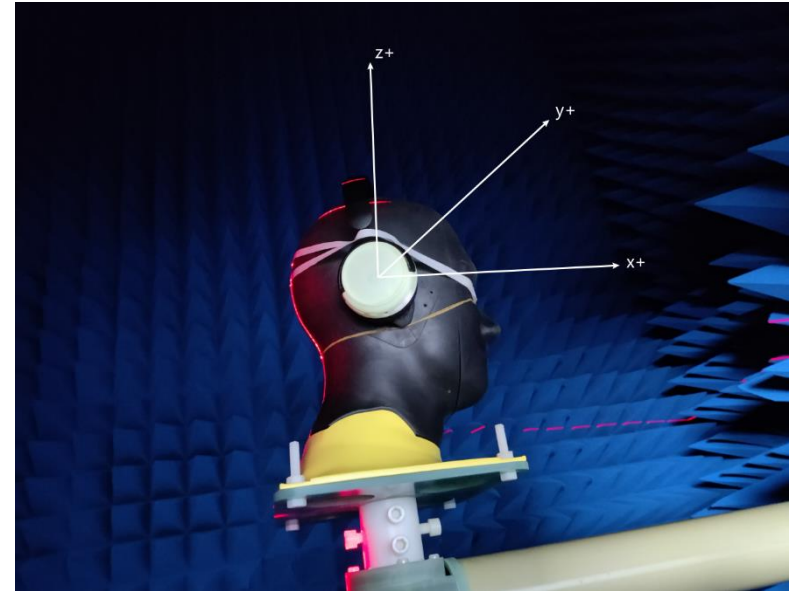
Free space	Channel	TRP (dBm)	TIS (dBm)
A3012	CH 0	6.2	-89.7
	CH 39	6.7	-90.1
	CH 78	5.7	-88.6
Head ear mold	Channel	TRP (dBm)	TIS (dBm)
A3012	CH 0	5.1	-88.1
	CH 39	5.8	-88.3
	CH 78	4.1	-87.3



Darkroom test environment of the whole machine



Darkroom test coordinate diagram (free)



Darkroom test coordinate diagram (head model)