

Introduction to applied laboratory testing equipment

The company introduced the highest configuration of comprehensive tester CMW500

Test 2G,3G,4G,WIFI,BT,NB-LOT

















Antenna testing equipment



GTS 3Dlaboratory:

It belongs to the near field testing lab

ETS 3Dlaboratory:

It belongs to the far-field test

Network Analyzer 5071C/A338/8753E (Test passive)

Comprehensive tester CWM500 (active test) 8852 (conduction test)

1 generation 2 generation head ear test model





GTS 3Dlaboratory







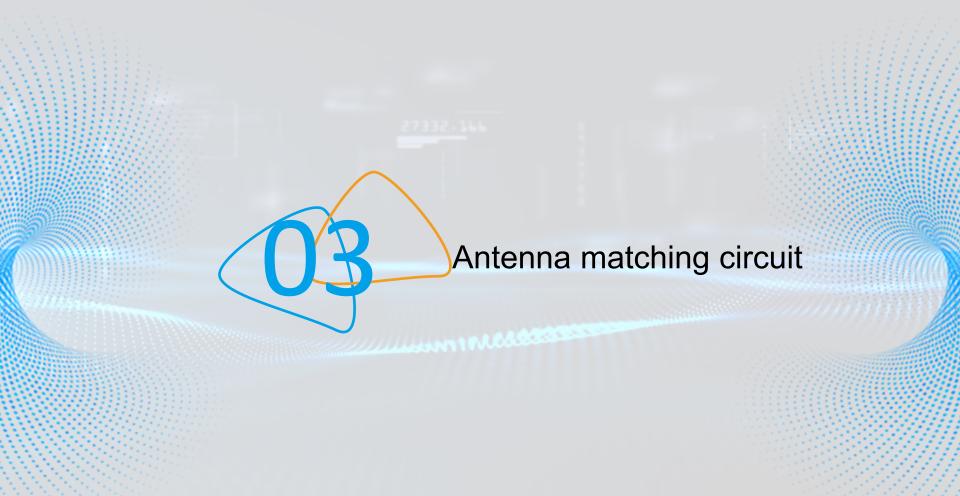






Environmental treatment

Please refer to Appendix antenna specifications - Photos

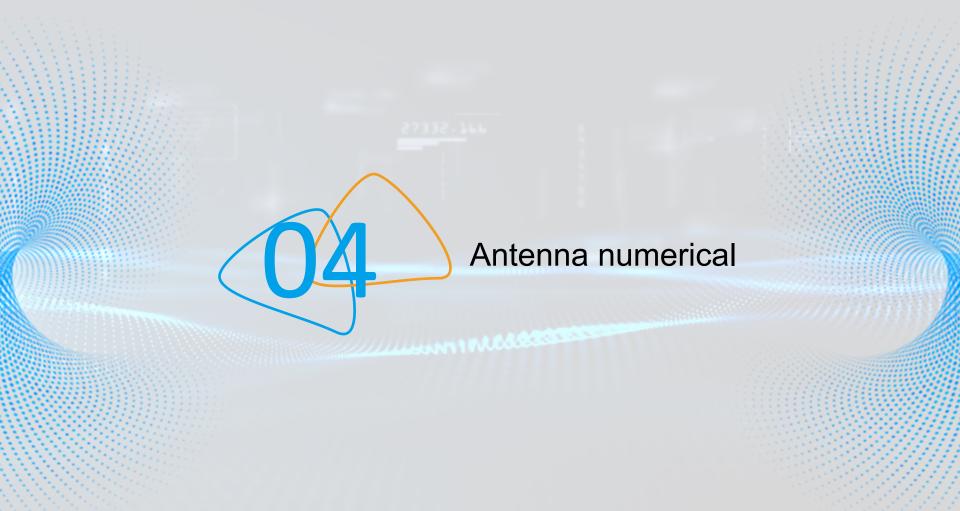






Matching Circuit









BT/WIFI S11

Please refer to Appendix antenna specifications - Photos



BT/WIFI Efficiency



WIFI-2.4G							
Freq (Mhz)	Effi (dB)	Effi (%)	Gain (dBi)				
2400	-3.69	42.78	0.24				
2410	-3.4	45. 67	0.47				
2420	-3.28	47.03	0.54				
2430	-2.95	50.72	0.88				
2440	-3.05	49.58	0.83				
2450	-3.5	44.64	0.56				
2460	-3.76	42.04	0.49				
2470	-3.62	43. 42	0.67				
2480	-3.81	41.62	0.44				
2490	-3.82	41.45	0.44				
2500	-4.05	39.4	0.58				

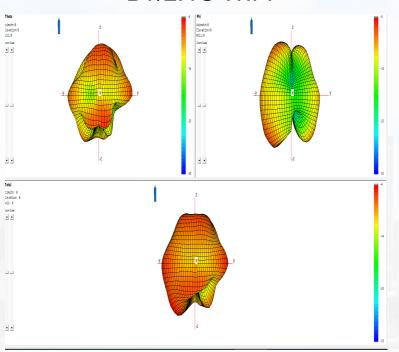
WIFI-5.8G							
Freq (Mhz)	Effi (dB)	Effi (%)	Gain (dBi)	5500	-4.37	36.57	0.12
5000	-5.63	27.38	0.74	5520	-4.39	36.38	0.03
5020	-5.49	28. 25	0.81	5540	-4.05	39.39	0.32
5040	-5.38	28.99	0.77	5560	-3.97	40.11	0.39
5060	-5.1	30.87	0.98	5580	-3.94	40.32	0.45
5080	-4.89	32. 41	1.07	5600	-3.62	43.48	0.75
5100	-4.74	33.54	1.11	5620	-3.73	42.38	0.68
5120	-4. 53	35. 22	1.19	5640	-3.78	41.84	0.54
5140	-4.43	36.07	1.2	5660	-3.54	44. 25	0.74
5160	-4.49	35.53	0.97	5680	-3.93	40.45	0.31
5180	-4.37	36.53	0.98	5700	-3.75	42.16	0.46
5200	-4.23	37. 73	0.95	5720	-3.97	40.06	0.34
5220	-4.15	38. 44	0.92	5740	-4.05	39.32	0.38
5240	-4.02	39.65	0.98	5760	-3.72	42. 47	0.82
5260	-4.23	37. 75	0.6	5780	-4.16	38.39	0.62
5280	-4.16	38.4	0.68	5800	-3.87	41.01	1.01
5300	-4.29	37. 26	0.5	5820	-3.73	42.35	1.34
5320	-4.47	35.72	0.34	5840	-3.78	41.84	1.42
5340	-4.61	34.56	0.23	5860	-3.68	42.83	1.62
5360	-4.59	34. 73	0.41	5880	-4. 02	39.65	1.29
5380	-4.36	36.67	0.74	5900	-3.96	40.21	1.41
5400	-4.22	37.84	0.94	5920	-4.28	37.36	1
5420	-4.17	38. 25	0.91	5940	- 4. 52	35.32	0.67
5440	-4.27	37. 43	0.76	5960	-4.55	35.09	0.6
5460	-4.37	36.58	0.54	5980	-4. 62	34.55	0.43
5480	-4.39	36.39	0.24	6000	-4.87	32.59	0.1



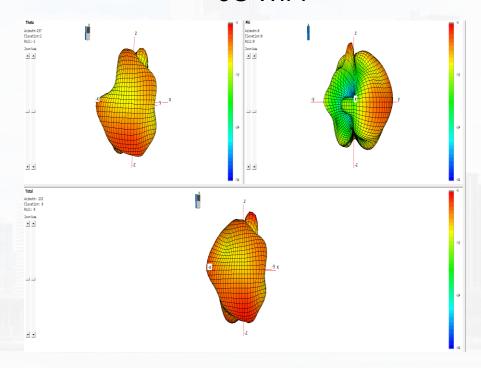
BT/WIFI Antenna Pattern







5G WIFI





Antenna active data



2.4G	Data Rate	Channel	TRP	TIS
11B	1 M	1	14.67	
		6	15. 4	
		11	15.06	
		1		-83.15
	11M	6		-84. 22
		11		-83.35
11G		1	12.79	
	6M	6	13.32	
		11	13.08	
		1		-82.86
	11M	6		-83.86
		11		-83.92
		1	12.53	-85.26
11N	MCSO	6	13.04	-85.85
		11	12.72	-85.57
	MCS7	1	11.69	-66.57
		6	12.12	-67.94
		11	11.42	-67.19
5G	Data Rate	Channel	TRP	TIS
11A	6Ж	40	12.02	-91.6
		56	12.5	-91.5
		157	12.21	-88.09
11N		40	11.97	-87.69
	MCSO	56	12.09	-88.15
		157	11.97	-85.76





天线图档



