

Manufacturer	ShenzhenZhengdaxinweiCommunicationEquipmenCo.,Ltd
Address	No. 486, Zhangbei Road, Zhangbei Community, Longcheng Sub-district, Longgang District, Shenzhen City
Model	MINI-FAKRA-C
Antenna type	PCB antenna
Antenna Gain	3.00dBi for 2.4G; 3.00dBi for 5G

1.Test equipment and conditions:

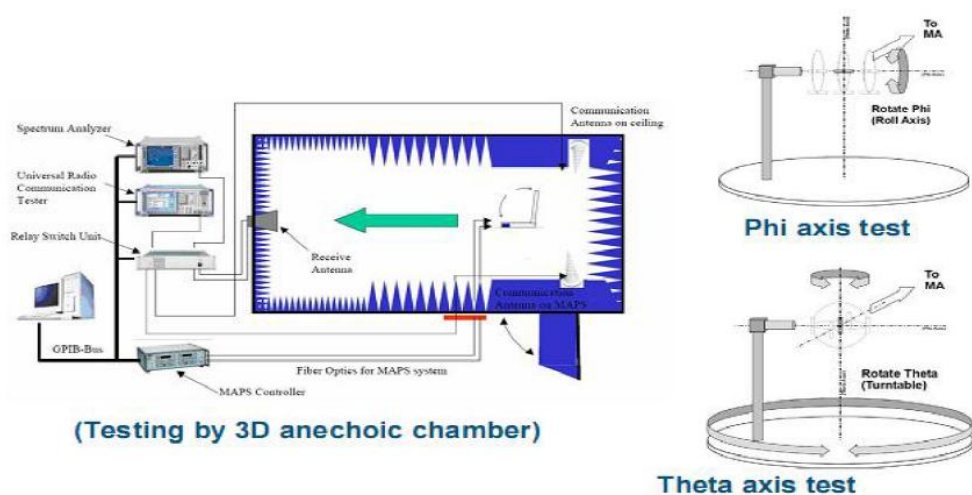
1.1.Network Analyzer

Agilent 8753D Agilent 5071B

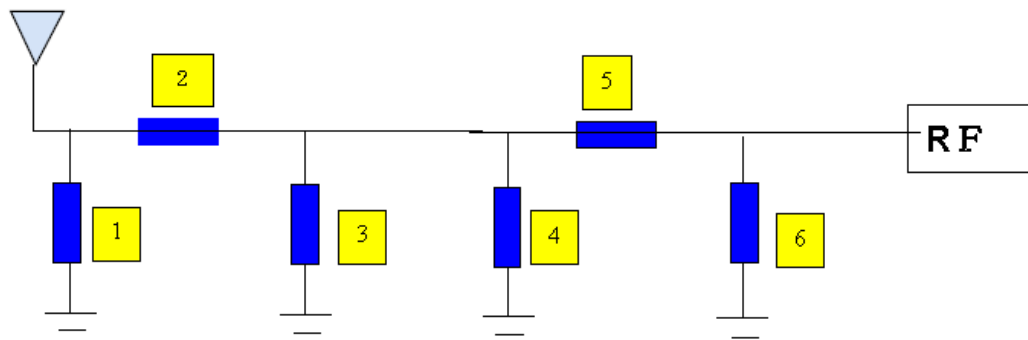
1.2.Communication test equipment

Agilent E5515C R&S CMW500

1.3.Test system

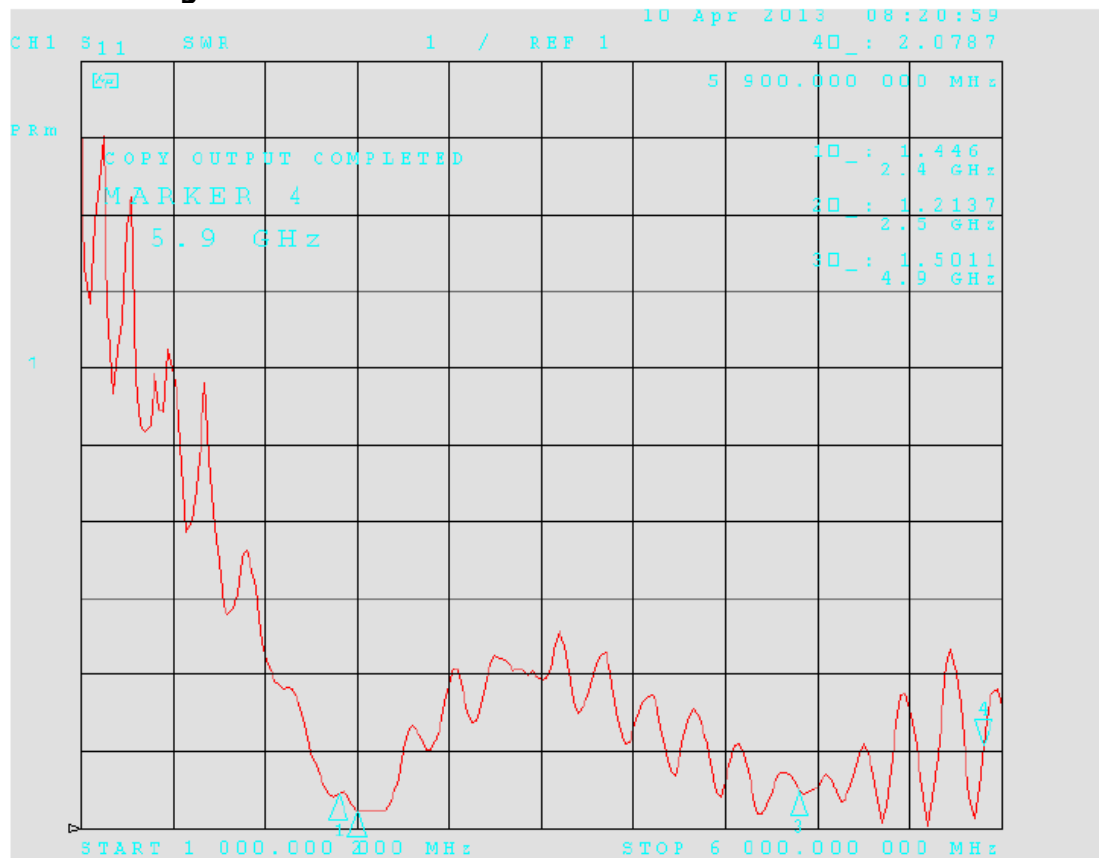


1.4. Matching circuit



2. Test Data:

2.1. Standing wave ratio



2.2.Efficiency

Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	UHS (%)	DHS (%)
2400	44.38	-2.79	2.26	40.28	13.32
2410	44.63	-2.46	2.66	42.42	13.54
2420	44.94	-2.12	2.82	40.96	14.77
2430	44.27	-2.70	2.40	43.24	15.23
2440	44.75	-2.39	3.00	40.71	15.79
2450	44.82	-1.83	2.50	41.19	16.18
2460	44.28	-2.63	2.13	42.39	18.25
2470	44.49	-2.34	2.44	41.78	18.80
2480	45.08	-2.23	2.00	40.89	19.05
2490	44.21	-2.68	2.25	43.21	19.23
2500	44.46	-2.32	2.61	40.44	19.62

Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	UHS (%)	DHS (%)
4900	60.30	-0.78	2.23	49.26	35.28
5000	60.53	-0.44	3.00	51.69	37.77
5100	60.61	-0.25	2.80	52.92	34.93
5200	60.27	-0.69	2.34	48.24	39.31
5300	60.49	-0.35	2.48	46.80	30.79
5400	60.96	-0.35	2.08	50.15	30.89
5500	60.30	-0.75	2.31	51.34	29.28
5600	60.73	-0.58	2.53	49.59	26.70
5700	60.76	0.16	2.78	53.11	26.16
5800	60.21	-0.63	3.46	45.22	34.40
5900	60.47	-0.28	2.41	49.45	35.48

2400 MHz

2400.0MHz H+V, Ef: 27.4%

Back View

2400.0MHz Total(E1-XZ), Max=-2.87dBi

2400.0MHz Total(E2-YZ), Max=-1.78dBi

Total(H-XY), Max=-2.99dBi, CrD=14.47

2450 MHz

2450.0MHz H+V, Ef: 29.0%

Back View

2450.0MHz Total(E1-XZ), Max=-3.02dBi

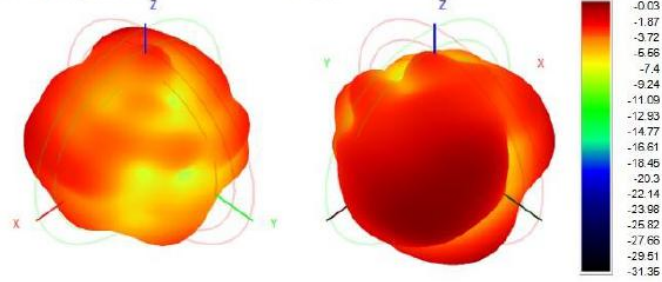
2450.0MHz Total(E2-YZ), Max=-2.39dBi

Total(H-XY), Max=-1.70dBi, CrD=11.23

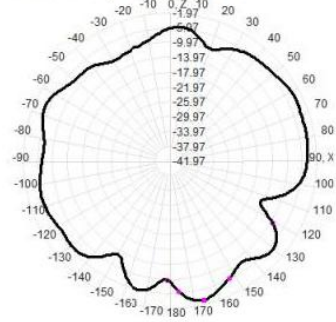
2500 MHz

2500.0MHz H+V, Eff: 24.1%

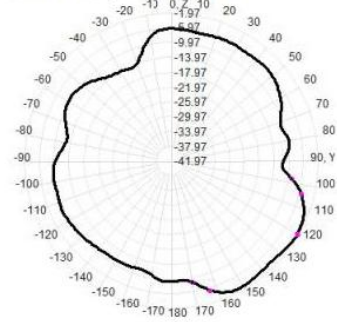
Back View



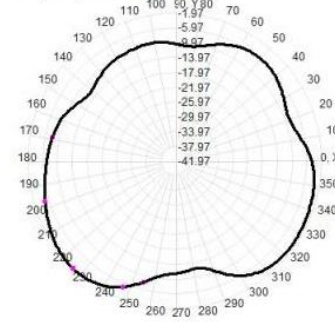
2500.0MHz Total(E1-XZ), Max=-3.55dBi



2500.0MHz Total(E2-YZ), Max=-2.61dBi



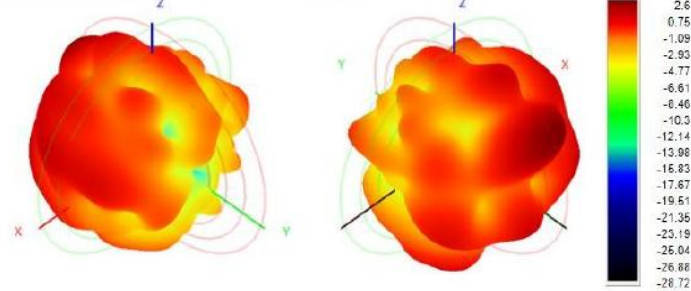
Total(H+V), Max=-1.97dBi, CrD=10.57



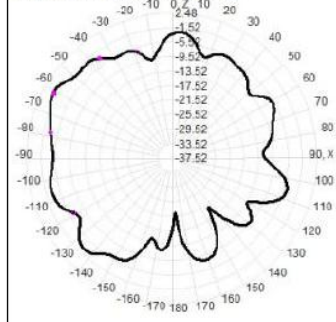
5150 MHz

5150.0MHz H+V, Eff: 29.3%

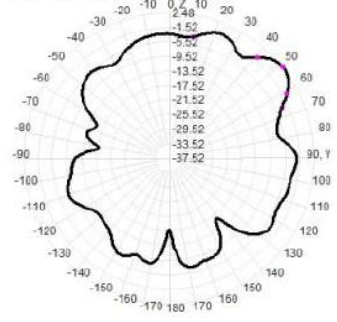
Back View



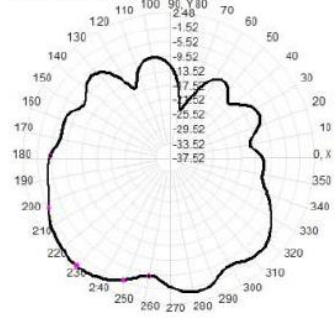
5150.0MHz Total(E1-XZ), Max=-0.42dBi

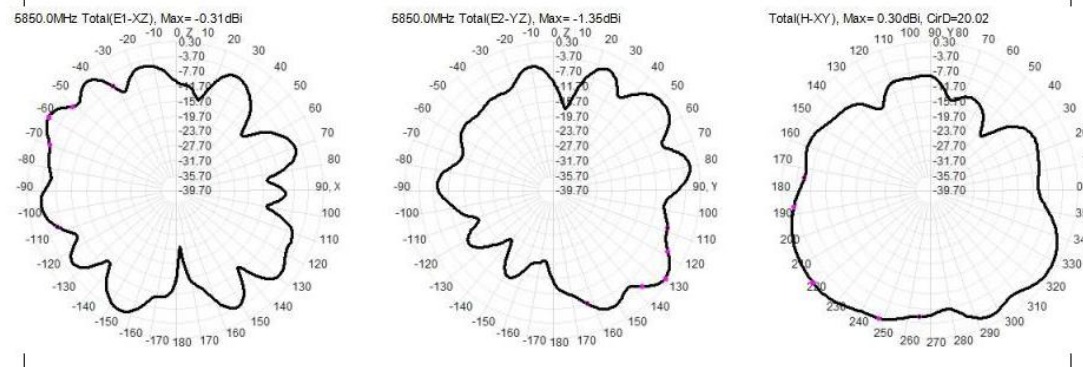
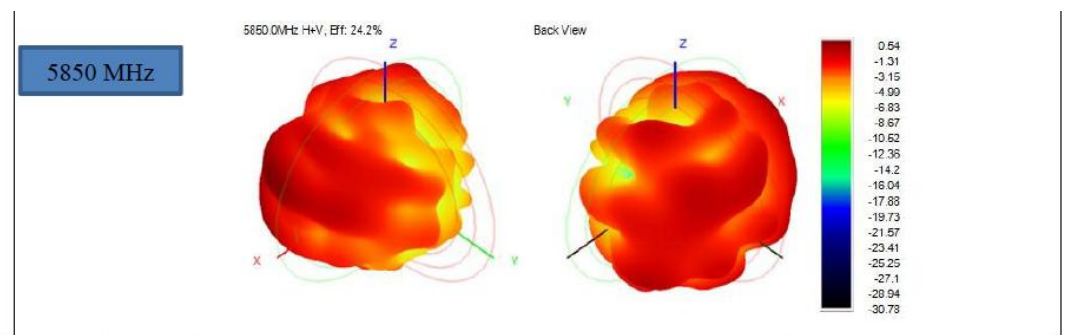
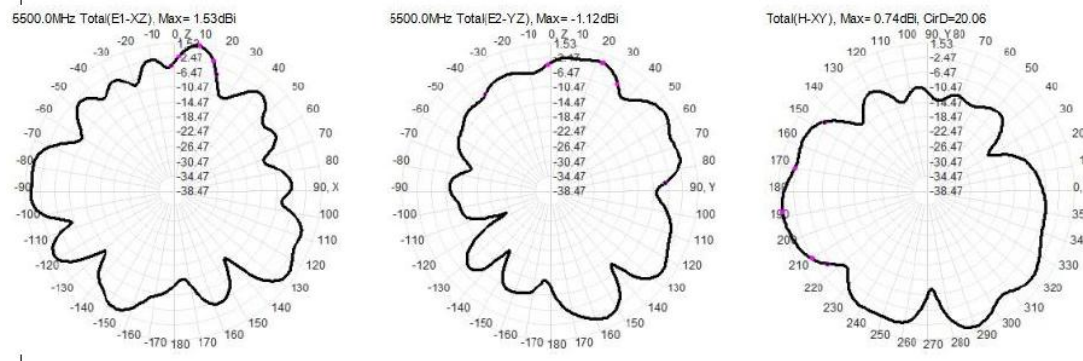
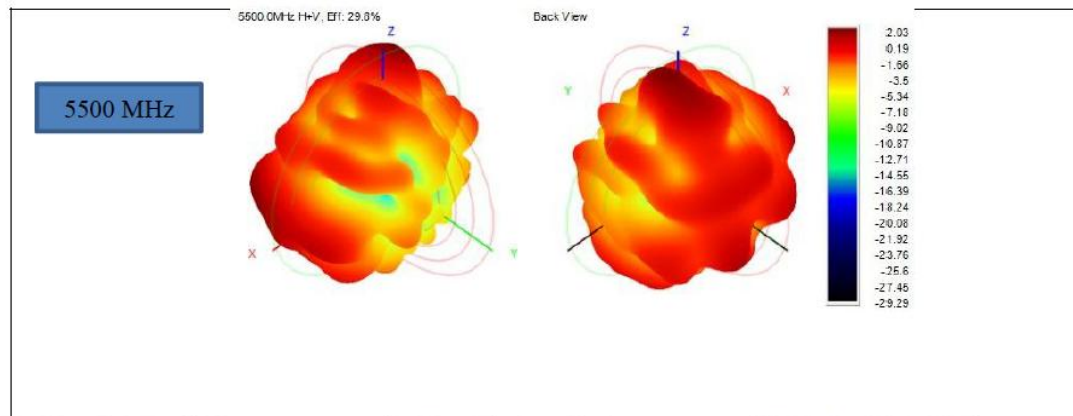


5150.0MHz Total(E2-YZ), Max=2.48dBi



Total(H+V), Max=1.03dBi, CrD=25.06





3. Antenna drawing (mm) :

