

Manufacturer	Soant Communication Equipent Co.,Ltd.
Address	No.31, Airport Road, Wangting Town, Xiangcheng District, Suzhou City
Model	SL205P.300021.P01
Antenna type	Internal antenna
Antenna Gain	2.00dBi for 2.4G, 2.0dBi for 5G

## 1. Test equipment and conditions:

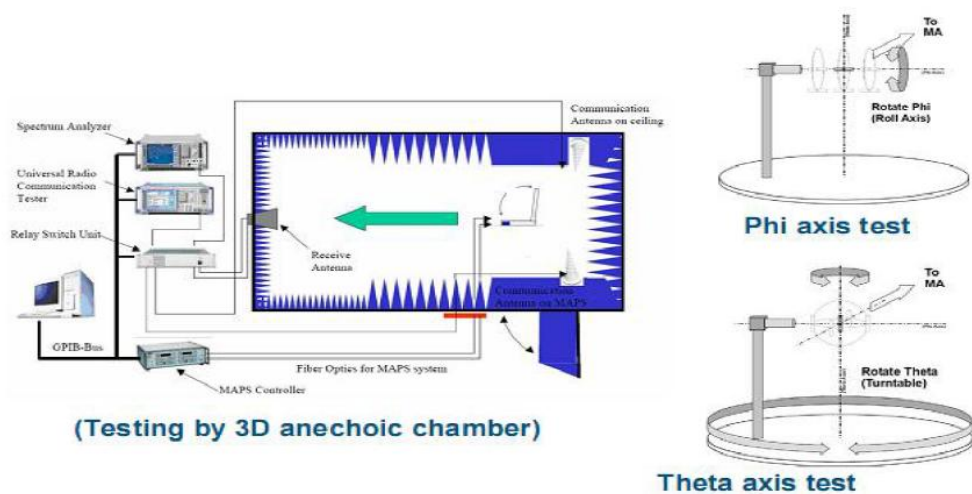
### 1.1. Network Analyzer

Agilent 8753D Agilent 5071B

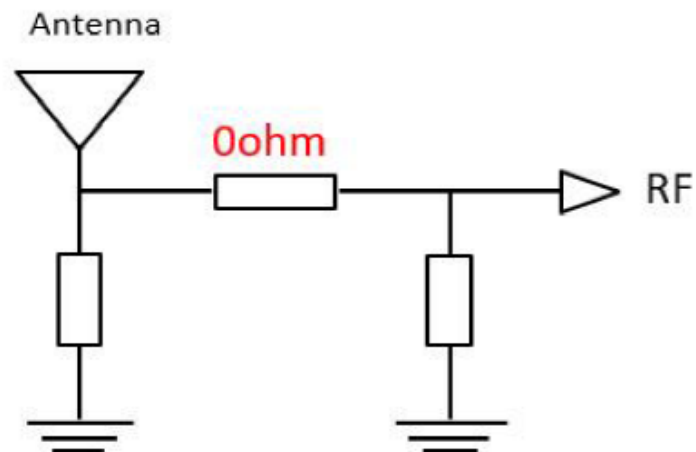
### 1.2. Communication test equipment

Agilent E5515C R&S CMW500

### 1.3. Test system

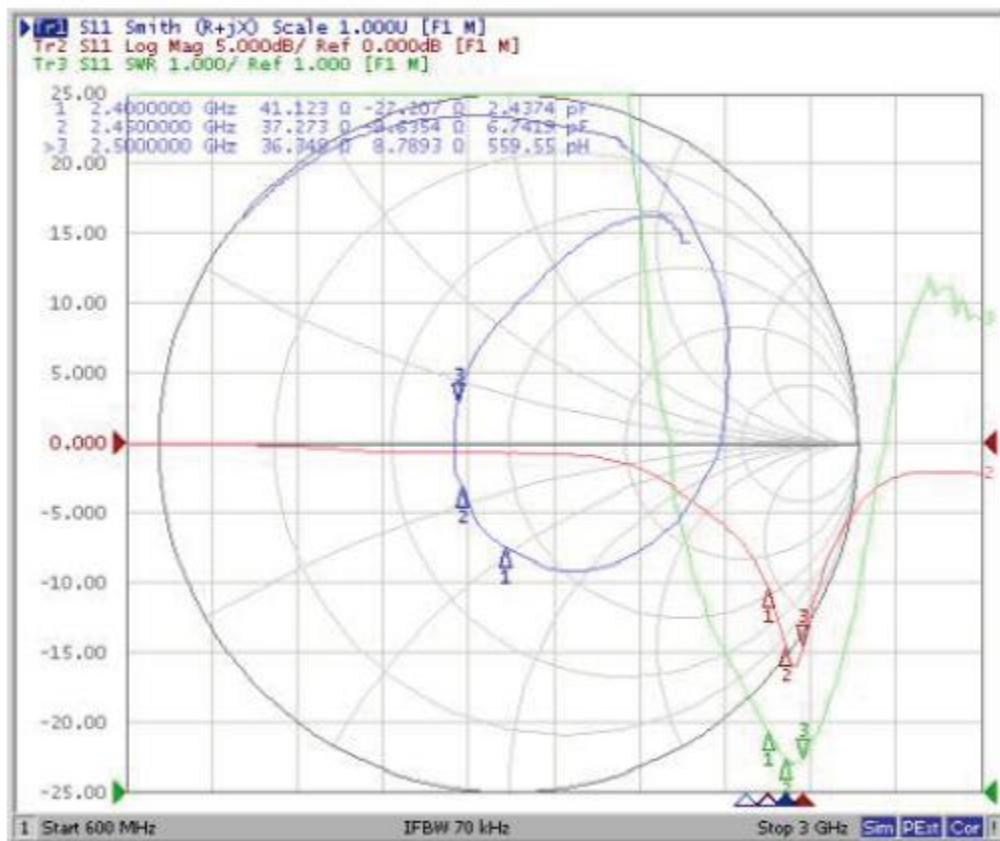


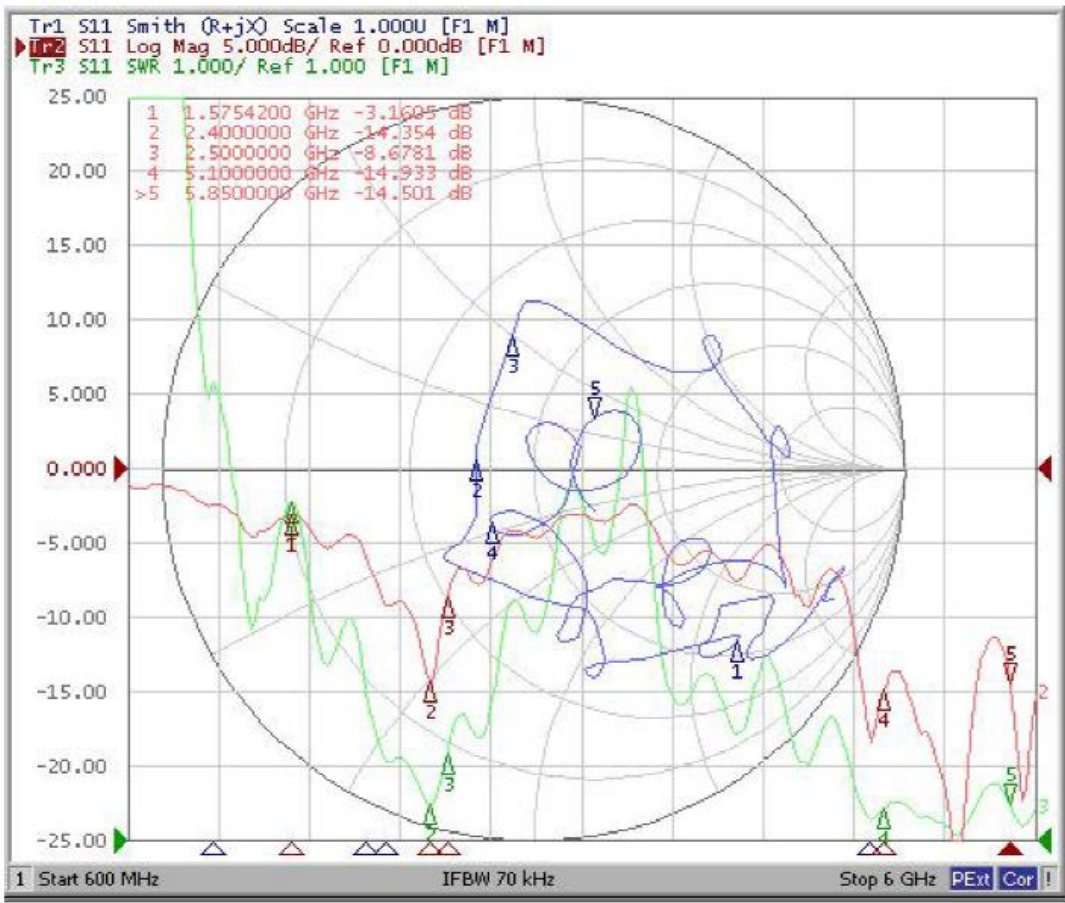
## 1.4. Matching circuit



## 2. Test Data:

### 2.1. Standing wave ratio



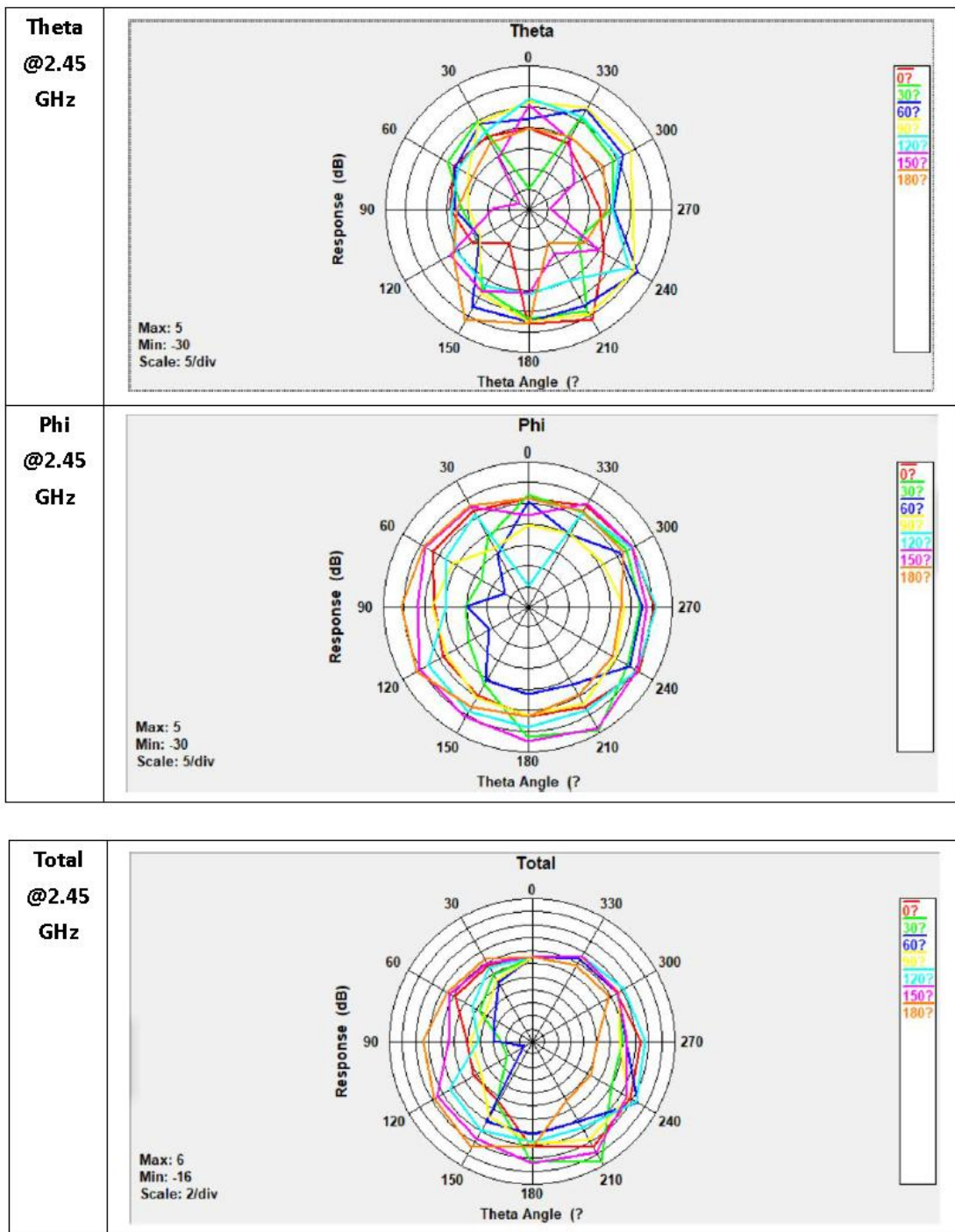


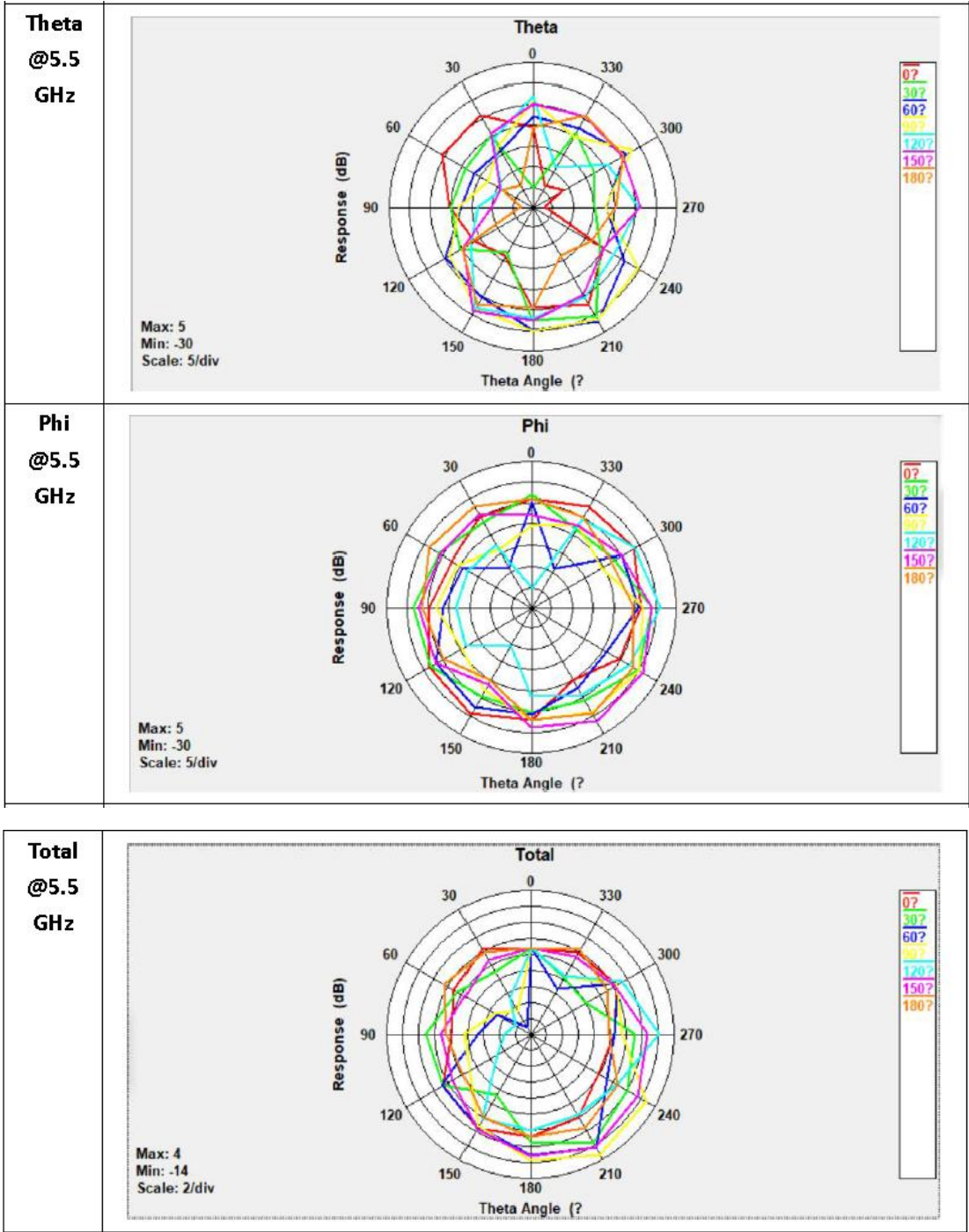
## 2.2.Efficiency

2.4G										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
2400	44.38	-2.79	1.93	-0.21	40.28	13.32	2.29	-23.79	48.26	49.33
2410	44.63	-2.46	1.99	-0.15	42.42	13.54	2.46	-21.29	48.66	49.58
2420	44.94	-2.12	2.00	-0.14	40.96	14.77	2.68	-20.97	48.71	49.88
2430	44.27	-2.70	1.98	-0.16	43.24	15.23	2.29	-22.77	48.21	49.35
2450	44.82	-1.83	1.87	-0.27	41.19	16.18	3.15	-21.98	49.11	49.99
2460	44.28	-2.63	1.94	-0.20	42.39	18.25	2.31	-25.62	48.37	49.22
2470	44.49	-2.34	1.87	-0.27	41.78	18.80	2.50	-24.31	48.50	49.54
2480	45.08	-2.23	1.95	-0.19	40.89	19.05	3.14	-23.23	48.98	49.99
2490	44.21	-2.68	1.89	-0.25	43.21	19.23	2.35	-21.77	48.24	49.20
2500	44.46	-2.32	1.96	-0.18	40.44	19.62	2.48	-20.30	48.48	49.61

5G										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
<b>4900</b>	60.30	-0.78	1.23	-0.91	49.26	35.28	3.29	-19.67	63.32	61.32
<b>5000</b>	60.53	-0.44	1.59	-0.55	51.69	37.77	4.68	-22.38	65.59	62.75
<b>5100</b>	60.61	-0.25	2.00	-0.14	52.92	34.93	3.92	-21.31	64.12	64.84
<b>5200</b>	60.27	-0.69	1.34	-0.80	48.24	39.31	3.29	-19.74	63.35	62.37
<b>5300</b>	60.49	-0.35	1.48	-0.66	46.80	30.79	2.76	-18.23	64.73	63.76
<b>5400</b>	60.96	-0.35	1.08	-1.06	50.15	30.89	3.81	-25.32	64.01	60.93
<b>5500</b>	60.30	-0.75	1.31	-0.83	51.34	29.28	4.22	-23.61	66.30	62.24
<b>5600</b>	60.73	-0.58	1.53	-0.61	49.59	26.70	3.76	-16.47	63.78	61.77
<b>5700</b>	60.76	0.16	1.78	-0.36	53.11	26.16	4.78	-17.26	64.16	61.86
<b>5800</b>	60.21	-0.63	1.36	-0.78	45.22	34.40	3.21	-15.65	62.26	63.31
<b>5900</b>	60.47	-0.28	1.41	-0.73	49.45	35.48	3.56	-18.42	63.54	62.65

### 2.3.Directivity diagram





**3. Antenna drawing(MM):**

